

**PALEO-PROXIES FOR THE THERMOCLINE AND LYSOCLINE
OVER THE LAST GLACIAL CYCLE IN THE WESTERN
TROPICAL PACIFIC**

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Presented to
The Academic Faculty

by

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**PALEO-PROXIES FOR THE THERMOCLINE AND LYSOCLINE
OVER THE LAST GLACIAL CYCLE IN THE WESTERN
TROPICAL PACIFIC**

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SUMMARY

The shape of the thermocline and the depth of the lysocline in the western tropical Pacific are both influenced by the overlying atmosphere, and both the shape of thermocline and the depth of the lysocline can be reconstructed from foraminifera-based paleo-proxies. Paleoclimate proxy evidence suggests a southward shift of the Intertropical Convergence Zone (ITCZ) during times of Northern Hemisphere cooling, including the Last Glacial Maximum (LGM), 19-23 ka before present. However, evidence for movement over the Pacific has mainly been limited to precipitation reconstructions near the continents, and the position of the Pacific marine ITCZ is less well constrained. In this study, I address this problem by taking advantage of the fact that the upper ocean density structure reflects the overlying wind field. I reconstruct changes in the upper ocean density structure during the LGM using oxygen isotope measurements on the planktonic foraminifera *G. ruber* and *G. tumida* in a transect of sediment cores from the Western Tropical Pacific. The data suggest a ridge in the thermocline just north of the present-day ITCZ persists for at least part of the LGM, and a structure in the Southern Hemisphere that differs from today. The reconstructed structure is consistent with that produced in a General Circulation Model with both a Northern and Southern Hemisphere ITCZ. I also attempt to reconstruct the upper ocean density structure for Marine Isotope Stages 5e and 6, the interglacial and glacial periods, respectively, previous to the LGM. The data show a Northern Hemisphere thermocline ridge for both of these periods. There is insufficient data to draw any conclusions about the Southern Hemisphere thermocline.

Using the same set of sediment cores, I also attempt to reconstruct lysocline depth over the last 23,000 years using benthic foraminiferal carbon isotope ratios, planktonic foraminiferal masses, and sediment coarse fraction percentage. Paleoclimate proxy evidence and modeling studies suggest that the deglaciation following the LGM is associated with a deepening of the lysocline and an increase in sedimentary calcite preservation. Although my data lack the resolution to constrain the depth of the lysocline, they do show an increase in calcite preservation during the last deglaciation, consistent with lysocline deepening as carbon moves from the deep ocean to the atmosphere.

CHAPTER 1

WESTERN PACIFIC THERMOCLINE STRUCTURE AND THE PACIFIC MARINE INTERTROPICAL CONVERGENCE ZONE DURING THE LAST GLACIAL MAXIMUM

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1.1 Introduction

The Intertropical Convergence Zone (ITCZ) is a zonal band of convection and precipitation in the tropics which occurs where the northeasterly and southeasterly trade winds meet, with a current average position at approximately 10°N over the oceans (Figure 1a, 2a). Paleoclimate proxy data and modeling studies support a southward shift of the ITCZ during periods of cooler Northern Hemisphere. However, the exact position of the ITCZ during these periods is not well constrained over the tropical Pacific.

The off-equatorial position of the ITCZ is determined by a balance between heat inputs from the ocean surface and the vorticity field which drives convergence (Tomas et al., 1999; Tomas and Webster, 1997; 1994). Once off the equator, there are several positive feedbacks which maintain this asymmetrical (with respect to the equator) convergence (Giese and Carton, 1994; Lin et al., 2008; Xie, 1994). In the tropics, the shapes of the continents cause cross-equatorial pressure gradients which lead to a Northern Hemisphere ITCZ (Mitchell and Wallace, 1992; Philander et al., 1996; Tomas

et al., 1999; Tomas and Webster, 1997), although since the ITCZ demonstrates a seasonal migration southwards during the boreal winter (Hu et al., 2007; Xian and Miller, 2008), continental configuration can not be the only contributor to ITCZ position.

In addition to the current Northern Hemisphere ITCZ in the Western Tropical Pacific, there is also an area of convection south of the equator, the South Pacific Convection Zone (SPCZ). The SPCZ, rather than being largely zonal like the ITCZ, is

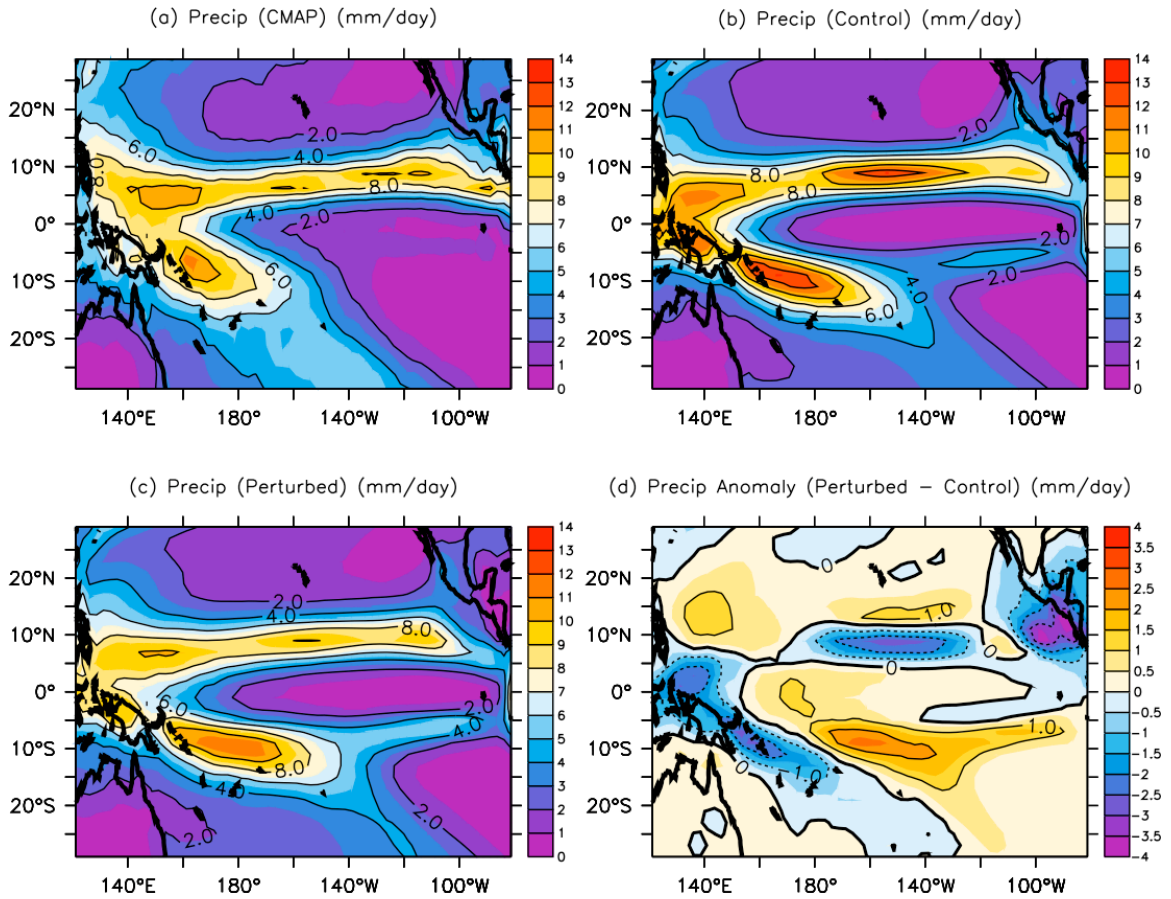


Figure 1: Annual mean precipitation (mm/day) over the tropical Pacific (a) CMAP observed climatology (Xie and Arkin, 1997). (b) 40-year average from GFDL's CM2.0 model control experiment as described in Zhang and Delworth (2005). (c) 40-year average from GFDL's CM2.0 model perturbed experiment with imposed anomalous freshwater flux over the northern North Atlantic as described in Zhang and Delworth (2005). (d) Difference in precipitation between (c) and (b).

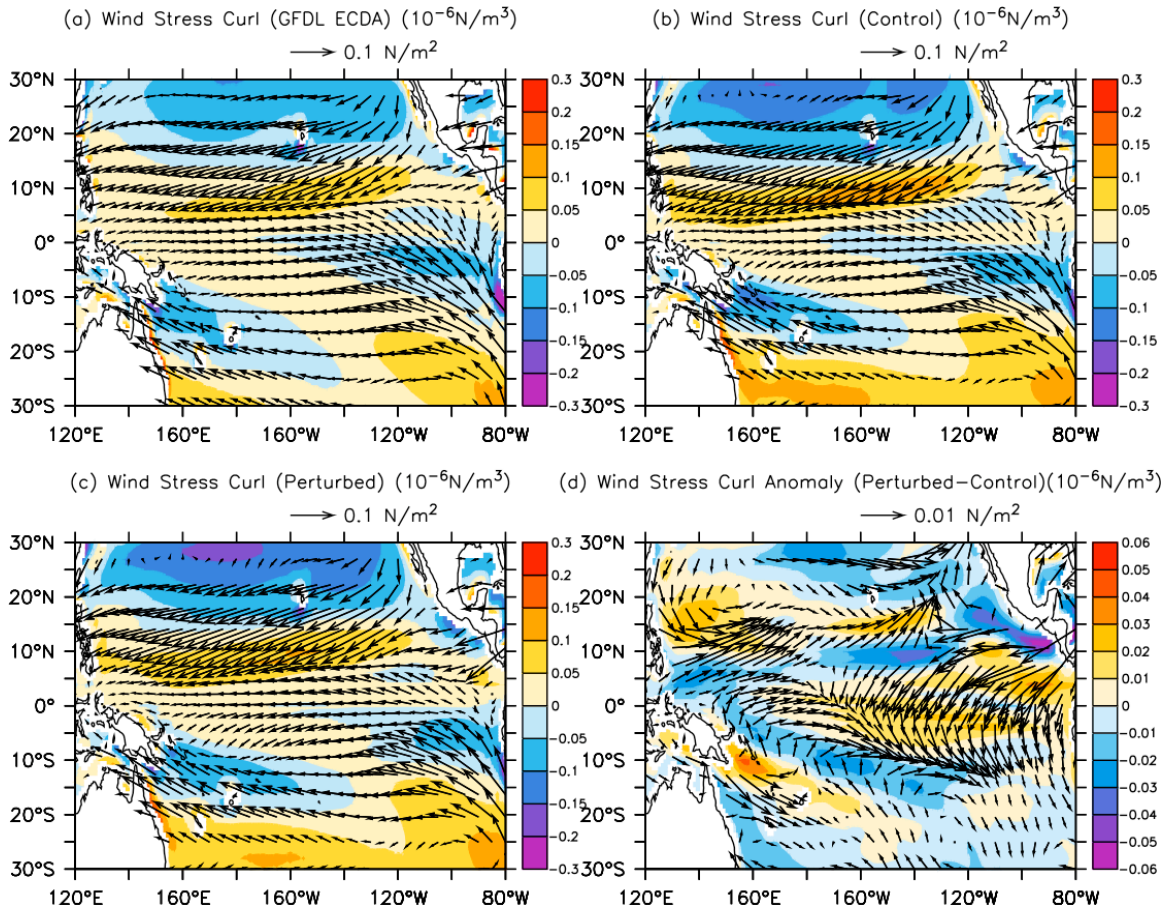


Figure 2: Annual mean wind stress over the tropical Pacific. Contours are wind stress curl (10^{-6}N/m^3), arrows denote wind stress (N/m^2) (a) Observed climatology over the tropical Pacific (from GFDL ensemble coupled data assimilation (ECDA) system for the period 1960-2000, Chang et al. (2012)). (b) 40-year average from GFDL's CM2.0 model control experiment as described in Zhang and Delworth (2005). (c) 40-year average from GFDL's CM2.0 model perturbed experiment with imposed anomalous freshwater flux over the northern North Atlantic as described in Zhang and Delworth (2005). (d) Difference between (c) and (b).

arranged diagonally, stretching south-eastward from New Guinea to approximately 30°S 120°W (Vincent, 1994). The location and orientation of the SPCZ are highly sensitive to zonal sea surface temperature gradients in the tropical and southern subtropical Pacific (Widlansky et al., 2011). In the eastern and central tropical Pacific, there is evidence for

a true double ITCZ during the boreal spring (Hubert et al., 1969; Liu and Xie, 2002; Zhang, 2001), although the Southern Hemisphere ITCZ is weaker than the Northern Hemisphere ITCZ and may have different underlying dynamics (Liu and Xie, 2002).

1.1.1 LGM ITCZ inferences from paleo-climate data

Several factors make the interpretation of LGM proxy data for the tropical Pacific difficult. Not all proxy data may be of the same quality (Waelbroeck et al., 2009). Paleo-data collection may be biased towards the Northern Hemisphere, making it difficult to make precise and large-scale interpretations (Stager et al., 2011). Since the *position* and *amount* of maximum rainfall may be sensitive to separate climate drivers (Chiang et al., 2002; Schmidt and Spero, 2011), reconstructions based on geographically limited data are difficult to interpret. Furthermore, high latitude, land-based reconstructions may be affected by changes in the monsoons which do not reflect the condition of the marine ITCZ (Nicholson, 2009). Despite these difficulties several studies have been published which are consistent with a southward shift of the ITCZ, and latitudinal shifts of the ITCZ during the LGM and last termination seem to be generally accepted (Denton et al., 2010). For example, studies of the Caribbean and west tropical Pacific based on foraminiferal Mg/Ca ratios and $\delta^{18}\text{O}$ imply a more southerly LGM ITCZ, although without giving a specific position (Schmidt and Spero, 2011; Schmidt et al., 2006). (Pahnke et al., 2007) used alkenone δD as a hydrology proxy to infer a more southerly ITCZ in the eastern Pacific during the LGM. Furthermore, in the eastern tropical Pacific, reconstructions of the surface ocean based on foraminiferal $\delta^{18}\text{O}$ and Mg/Ca ratios have shown a decrease in cross-equatorial temperature gradients during the LGM (Koutavas and Lynch-Stieglitz, 2003, 2005; Koutavas et al., 2002) Since ITCZ position is very

sensitive to meridional temperature gradients in the tropics (Chiang et al., 2002), this decrease in temperature gradient implies a more southerly ITCZ during the LGM, although, again, without predicting a specific position. Dubois et al. (2009) uses the $U_{37}^{K'}$ alkenone proxy to reconstruct an increased LGM cross-equatorial temperature gradient in the eastern equatorial Pacific. However, that study argues that the gradient is consistent with a more southerly-shifted LGM ITCZ. Since none of these reconstructions predict a specific southern position for the LGM ITCZ, they fail to make the distinction between a more southerly ITCZ which remains in the Northern Hemisphere, and an LGM ITCZ which shifts entirely into the Southern Hemisphere.

1.1.2 Model Studies of the LGM ITCZ

Models of the Western Tropical Pacific often exaggerate the extent and zonal direction of the SPCZ, leading to a “double ITCZ”, especially in the western Pacific (Zhang et al., 2007). Despite this, several modeling studies have attempted to assess changes to the Pacific ITCZ in response to LGM boundary conditions. The Paleoclimate Modeling Intercomparison Project (PMIP2) has compared the response of several climate models to LGM boundary conditions. In aggregate, the models suggest very little change in the position of the precipitation maximum associated with the ITCZ in the western Pacific during the LGM. Individually, the models give a spread of responses: some show an LGM precipitation maximum to the north, and some to the south of the current ITCZ position (Braconnot et al., 2007). On the other hand, other studies have shown a robust shift to a Southern Hemisphere position in response to imposition of boundary conditions associated with the LGM. In one study, increased Northern Hemisphere ice coverage caused precipitation immediately north of the equator in the Pacific to decrease to almost

zero, while increasing by an equal amount immediately south of the equator, implying a shift to the Southern Hemisphere of the ITCZ (Chiang and Bitz, 2005). In other studies, reduced Atlantic meridional overturning produced similar results (Broccoli et al., 2006; Menviel et al., 2008). Taken together, these studies suggest that the tropical climate is sensitive to distinct components of the high latitude glacial boundary conditions, and also that a shift of the ITCZ entirely into the Southern Hemisphere is possible.

1.1.3 Relationship between the thermocline structure and the Pacific Marine ITCZ

The wind field in the tropical Pacific results in a circulation and thermocline structure largely described by Sverdrup dynamics (Kessler et al., 2003; Landsteiner et al., 1990; Munk, 1950; Sverdrup, 1947). North of the equator in the Pacific, the wind stress curl reaches a maximum value just north of the ITCZ where weak zonal winds at the convergence itself transition to stronger easterly winds to the north.

The geostrophic part of the Sverdrup transport can be calculated by combining the Sverdrup relation with Ekman transport. This can then be integrated to derive an equation for the Sverdrup pressure, the pressure field that supports the geostrophic part of the Sverdrup transport. The vertically integrated Sverdrup pressure equation is given in (Landsteiner et al., 1990):

$$P = -\int_x^0 \left[\frac{f}{\beta} \text{curl}_z \tau + \tau^x \right] dx + P(0)$$

where $P(0)$ is the vertically integrated pressure at the eastern boundary ($x = 0$), f is the Coriolis parameter, β is the meridional gradient of the Coriolis parameter, τ is the surface wind stress vector, which has meridional component τ^x . The Sverdrup pressure

calculated in this way from observed wind stress mirrors the thermocline structure in the Tropical Pacific, with high pressure where the thermocline is deep and low pressure where the thermocline is shallow and nicely shows the thermocline ridge (Figure 3). The pattern in Sverdrup pressure is determined by two components of the wind field: the zonal wind stress (which is easterly over the tropical Pacific and produces a tilt of the thermocline downward to the west); and the wind stress curl which varies and will tend to

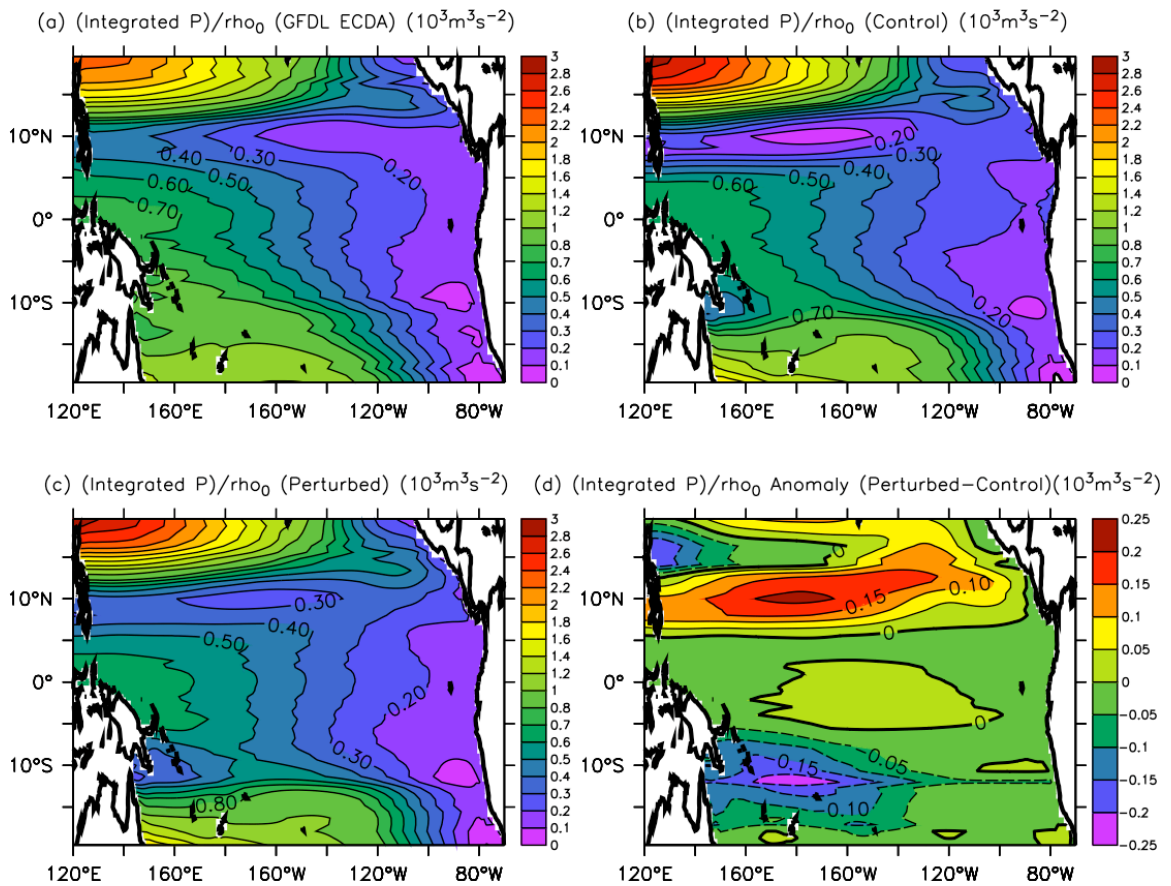


Figure 3: Annual mean Integrated Pressure/ ρ_0 calculated over the tropical Pacific (the Integrated Pressure is calculated using the equation in Section 1.3 ($10^3 \text{m}^3 \text{s}^{-2}$) using (a) observed climatological wind over the tropical Pacific (from GFDL ECDA, Chang et al. 2012). (b) 40-year averaged wind field from GFDL's CM2.0 model control experiment as described in Zhang and Delworth (2005). (c) 40-year averaged wind field from GFDL's CM2.0 model perturbed experiment with imposed anomalous freshwater flux over the northern North Atlantic as described in Zhang and Delworth (2005). (d) Difference between (c) and (b).

raise the thermocline where the wind field is divergent and deepen the thermocline where it is convergent. Since the equation for Sverdrup pressure integrates from east to west, the pressure in the Western Tropical Pacific is a function not only of local conditions, but also of all conditions to the east. While the meridional component of the surface wind stress is relatively uniform across the basin, thus integrating across the basin to produce the general east-west tilt of the thermocline, the curl term of the equation varies across the basin. This means that, while local wind stress curl plays a part in determining the Sverdrup pressure of the western Pacific, the local Sverdrup pressure, and thus thermocline depth, is also dependent upon conditions across the entire Pacific.

These processes explain the asymmetry across the equator in the thermocline depth in the Western Tropical Pacific. The basin-wide ITCZ in the Northern Hemisphere is associated with a band of positive (divergent in the Northern Hemisphere) wind stress curl across the Pacific (Figure 2a), which amplifies and strengthens the west Pacific Northern Hemisphere ridge at approximately 8°N (Figure 4a). There is a much smaller ridge visible in the Southern Hemisphere at about 12°S in the Southern Hemisphere (Figure 4a). This much smaller ridge is caused by negative wind stress curl (divergent in the Southern Hemisphere) in the western Pacific south of the equator. However, since there is a large area of positive (convergent) wind stress curl in the central Pacific at the same latitude), the ridge is much weaker than the one in the Northern Hemisphere.

Because it is the zonally coherent band of divergent wind stress curl just north of the ITCZ which produces a pronounced Northern Hemisphere thermocline ridge in the

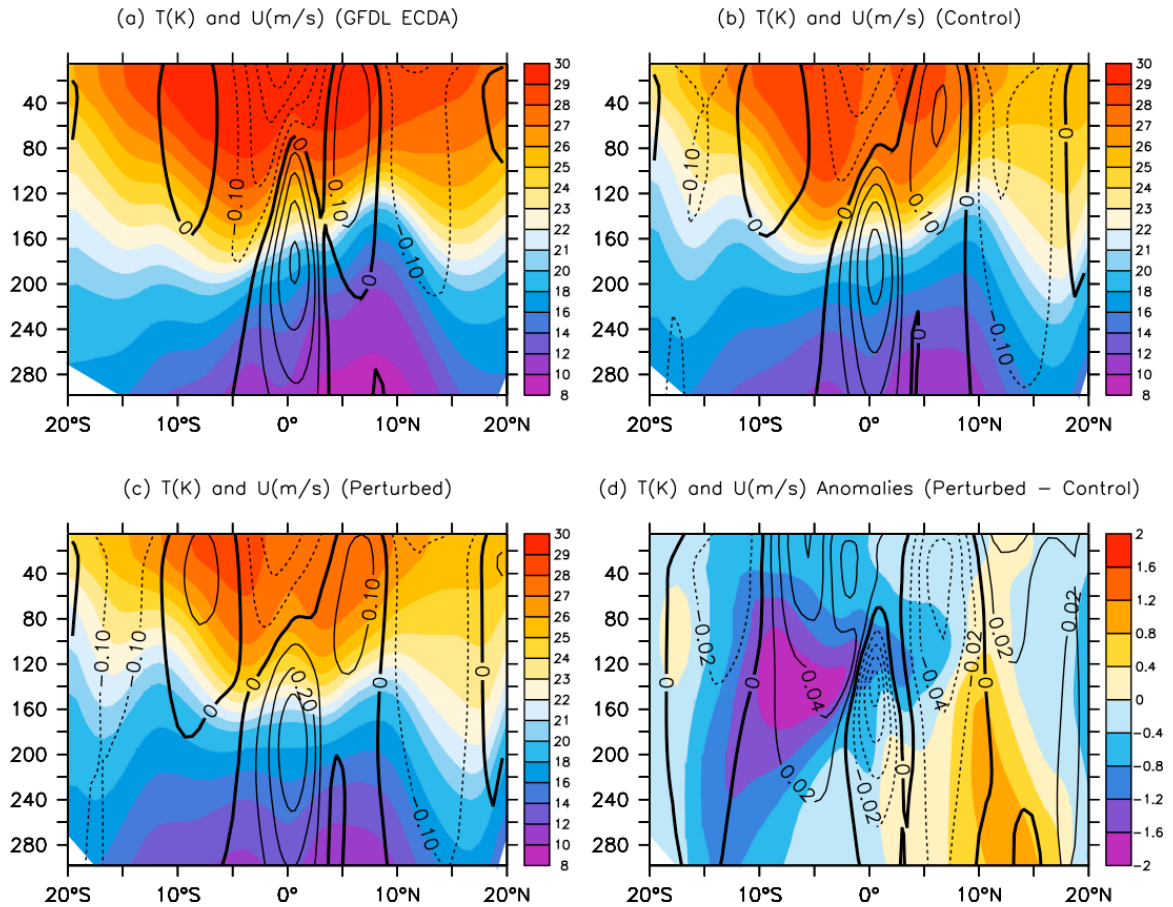


Figure 4: Annual mean vertical ocean profile from 0-300 m along 160°E. Colors represent temperature (°C). Contours are zonal flow (m/s) (contour interval is 0.02m/s). (a) Observed profile (from GFDL ECDA, Chang et al. 2012). (b) 40-year average from GFDL’s CM2.0 model control run as described in Zhang and Delworth (2005). (c) 40-year average from GFDL’s CM2.0 model perturbed experiment with imposed anomalous freshwater flux over the northern North Atlantic as described in Zhang and Delworth (2005). (d) Difference between (c) and (b).

Western Tropical Pacific, we therefore expect that if the ITCZ moves north or south, then the thermocline ridge will also move north or south. Furthermore, if a well-developed, zonal ITCZ occurs in the Southern Hemisphere, then a pronounced thermocline ridge will occur in the Southern Hemisphere.

This hypothesis is supported by at least two model studies. (Zhang et al., 2007) show that in three coupled ocean-atmosphere general circulation models (CCSM2, CCSM3, and FGCM1), an erroneous double ITCZ in the Pacific (Figures 1 and 2 of Zhang et al. (2007)) results in a thermocline ridge south of the equator. The double ridge produced in the central and western Pacific in each model is visible in Figure 3 of Zhang et al. (2007). In the model experiments in Zhang and Delworth (2005) a weakening of the Atlantic Meridional Overturning Circulation in response to freshwater input to the North Atlantic enhances the Southern Hemisphere Pacific ITCZ and weakens the Northern Hemisphere ITCZ, again in a model that tends to show a double ITCZ in the control run (Figures 1 and 2). The control run shows a double ridge, associated with the double ITCZ, but with a slightly weaker Southern Hemisphere ridge reflecting the less zonal structure of the Southern Hemisphere ITCZ. In the perturbed run, the enhanced Southern Hemisphere ITCZ is associated with more consistent negative wind stress curl across the basin, and therefore a stronger Southern Hemisphere thermocline ridge (Figures 3, 4).

1.1.4 Reconstructing thermocline structure from planktonic foraminifera

The isotopic composition of the calcite test of a foraminifer is dependent upon both the temperature of calcification and the isotopic composition of the seawater in which it calcifies. Seawater oxygen isotope ratio ($\delta^{18}\text{O}$) varies with changes in whole earth ice volume, and with the local differences in evaporation and precipitation, which also affect local salinity. At a given time in the past, the changes to whole earth ice volume affect all locations equally, which means that variability in foraminiferal $\delta^{18}\text{O}$ is related to the temperature and salinity of the seawater. In general, as seawater

temperature decreases from the surface through the thermocline in the tropical Pacific, the isotopic composition of foraminifera calcifying in these waters increases. More generally, in the upper ocean, higher $\delta^{18}\text{O}$ values correspond to higher seawater potential density because both quantities increase with decreasing temperature and increasing salinity. By analyzing the isotopic composition of species of planktonic foraminifera that calcify in the surface mixed layer, and those that calcify deeper in the water column, the thermocline depth and upper ocean stratification can be reconstructed (Cannariato and Ravelo, 1997; Farmer et al., 2007; Rincon-Martinez et al., 2011; Sagawa et al., 2012; Steph et al., 2009).

In this paper, we aim to reconstruct the structure of the LGM thermocline in the Western Tropical Pacific using $\delta^{18}\text{O}$ values of the calcite shells of the species *Globigerinoides ruber*, which calcifies in the surface mixed layer, and *Globorotalia tumida* which calcifies deeper in the water column. The thermocline ridge is associated with colder waters at the calcification depth of *G. tumida*, and we expect to see both higher *G. tumida* $\delta^{18}\text{O}$ values and an increased gradient in $\delta^{18}\text{O}$ between *G. tumida* and *G. ruber* at the location of the thermocline ridge. This reconstruction of thermocline structure will place constraints on the position of the LGM ITCZ.

1.2 Methods

1.2.1 Core Selection

In order to reconstruct the LGM thermocline structure, and therefore constrain the position of the LGM ITCZ, we studied 15 sediment cores from positions which transect the equator in the western Pacific (Figure 5). The transect extends to a position north of the current Northern Hemisphere thermocline ridge, and a similar distance to the south.

Most cores are from an ocean depth of less than 3000 m, since dissolution increases rapidly below this depth in the Western Tropical Pacific (Berger et al., 1982). However, due to the depth of the ocean and low sedimentation rates in this area, we also used some cores from between 3000 and 4000 m water depth, provided that their *G. ruber* $\delta^{18}\text{O}$ stratigraphy appeared to differentiate the LGM and Holocene sections of the core (Supplemental Figure 1).

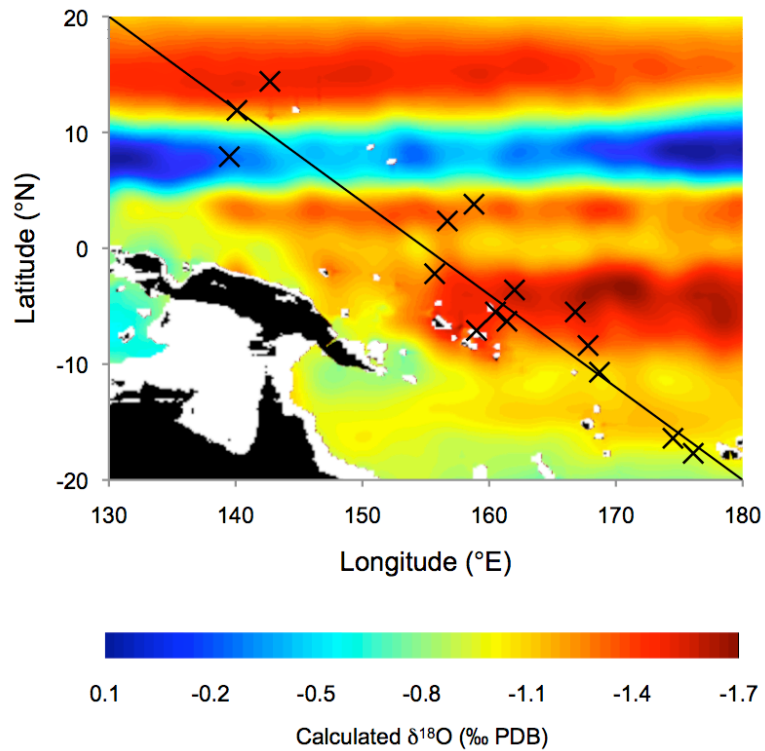


Figure 5: Positions of sediment cores (crosses). Colors indicate predicted $\delta^{18}\text{O}$ values at 150 m depth. Predicted $\delta^{18}\text{O}$ values are calculated from observed values for temperature (Locarnini et al., 2010) and salinity (Antonov et al., 2010) using the equation derived in section 2.4. The solid line represents the position of the transect of calculated equilibrium calcite $\delta^{18}\text{O}$ values which were used for comparison to sedimentary calcite $\delta^{18}\text{O}$ values. Since the predicted calcite $\delta^{18}\text{O}$ are sensitive to temperature changes, variations in predicted calcite $\delta^{18}\text{O}$ at this depth are largely driven by changes in thermocline depth.

1.2.2 Oxygen Isotope Analyses on Foraminifera

From each sediment core, samples of approximately 3 g of dry sediment were taken every 4 cm, to a depth of at least 2 m. The dry material was soaked in deionized water overnight, then washed with deionized water over a 63 μm sieve, and dried for at least eight hours at 70°C. Whole, clean *G. ruber* were picked from the 250-355 μm size fraction and whole, clean *Globorotalia tumida* from the 425-500 μm size fraction.

Foraminifera were analyzed for $\delta^{18}\text{O}$ on a MAT253 mass spectrometer with Delta IV carbonate device. $\delta^{18}\text{O}$ values are reported relative to Pee Dee Belemnite (PDB), via a house standard and NBS 19. Long-term results showed a standard deviation of $< 0.06\text{‰}$ for $\delta^{18}\text{O}$ and $< 0.04\text{‰}$ for $\delta^{13}\text{C}$. *G. tumida* were analyzed singly, *G. ruber* were analyzed in groups of ten. The size range chosen gave sufficient *G. tumida* with a narrow weight range (approximately 100-150 μg per test). The number of *G. tumida* tests analyzed was chosen to bring the standard error of the mean calculated for each time slice below a value of 0.2.

1.2.3 Dating and Time Slices

Radiocarbon ages were determined on *G. tumida* ($> 250 \mu\text{m}$) from selected intervals in the cores at the National Ocean Sciences Accelerator Mass Spectrometry facility (Table 1). Each sample contained a minimum of eight tests from a single interval, lightly crushed and mixed. Radiocarbon ages were corrected using the Calib 6.0.0 program (Stuiver and Reimer, 1993) and the Marine09.14c dataset (Reimer et al., 2009). We chose to use a standard marine reservoir value of 400 years for our calibration, since the modern reservoir value for the tropical Pacific is close to 400 years

Table 1: Radiocarbon dates for sediment cores.

| Core | Core depth (cm) | Radiocarbon date (yr BP) | Error | Calibrated date (yr BP) | Species | Date Reported (YYYYMMDD) |
|----------|-----------------|--------------------------|-------|-------------------------|-----------|--------------------------|
| VM28-246 | 8 | 17500 | 70 | 20292 | G. tumida | 20101217 |
| VM28-246 | 12 | 19700 | 120 | 22930 | G. tumida | 20100816 |
| VM28-246 | 20 | 28400 | 140 | 32109 | G. tumida | 20100316 |
| VM28-246 | 24 | 31000 | 160 | 34992 | G. tumida | 20101217 |
| VM19-110 | 4 | 3040 | 30 | 2799 | G. tumida | 20110429 |
| VM19-110 | 16 | 13350 | 55 | 15405 | G. tumida | 20101217 |
| VM19-110 | 36 | 28500 | 130 | 32282 | G. tumida | 20110429 |
| GGC-49 | 1 | 2620 | 30 | 2309 | G. tumida | 20110429 |
| GGC-49 | 15 | 17700 | 60 | 20440 | G. tumida | 20110108 |
| GGC-49 | 23 | 23700 | 90 | 28095 | G. tumida | 20110108 |
| RC17-176 | 0 | 5110 | 50 | 5496 | G. tumida | 20100816 |
| RC17-176 | 15 | 9220 | 65 | 10043 | G. tumida | 20100816 |
| RC17-176 | 30 | 25100 | 110 | 29501 | G. tumida | 20100316 |
| VM24-110 | 4 | 4970 | 40 | 5317 | G. tumida | 20110504 |
| VM24-110 | 12 | 7520 | 40 | 7971 | G. tumida | 20101221 |
| VM24-110 | 28 | 22700 | 95 | 26804 | G. tumida | 20101217 |
| VM24-150 | 4 | 2520 | 35 | 2200 | G. tumida | 20110504 |
| VM24-150 | 32 | 16150 | 100 | 18843 | G. tumida | 20100816 |
| VM24-150 | 44 | 19750 | 85 | 23138 | G. tumida | 20100316 |
| VM28-236 | 4 | 4470 | 35 | 4654 | G. tumida | 20110504 |
| VM28-236 | 12 | 14500 | 110 | 17103 | G. tumida | 20100813 |
| VM28-236 | 32 | 24100 | 140 | 28400 | G. tumida | 20100316 |

Table 1 (*continued*).

| Core | Core depth (cm) | Radiocarbon date (yr BP) | Error | Calibrated date (yr BP) | Species | Date Reported (YYYYMMDD) |
|----------|-----------------|--------------------------|-------|-------------------------|-------------------------------|--------------------------|
| VM28-235 | 28 | 17300 | 70 | 20093 | <i>G. tumida</i> | 20101217 |
| VM28-235 | 40 | 23300 | 100 | 27758 | <i>G. tumida</i> | 20101217 |
| VM28-230 | 5 | 6740 | 70 | 7272 | <i>G. tumida</i> | 20100816 |
| VM28-230 | 20 | 17000 | 90 | 19712 | <i>G. tumida</i> | 20100816 |
| VM28-230 | 40 | 27500 | 130 | 31334 | <i>G. tumida</i> | 20100316 |
| VM28-233 | 1 | 2270 | 35 | 1875 | <i>G. tumida</i> | 20110504 |
| VM28-233 | 28 | 15800 | 85 | 18642 | <i>G. tumida</i> | 20101217 |
| VM28-233 | 48 | 22600 | 150 | 26575 | <i>G. tumida</i> | 20101217 |
| VM28-234 | 0 | 1840 | 30 | 1369 | <i>G. tumida</i> | 20110504 |
| VM28-234 | 86 | 13150 | 55 | 15080 | <i>G. sacculifer</i> | 20110108 |
| VM28-234 | 106 | 15350 | 85 | 18378 | <i>G. tumida</i> | 20110504 |
| VM28-234 | 110 | 14900 | 75 | 17683 | <i>G. sacculifer/G. ruber</i> | 20110108 |
| VM28-234 | 118 | 16400 | 95 | 19166 | <i>G. tumida</i> | 20110504 |
| VM28-234 | 180 | 20800 | 210 | 24247 | <i>G. tumida</i> | 20110504 |
| VM28-229 | 0 | 4520 | 40 | 4740 | <i>G. tumida</i> | 20110429 |
| VM28-229 | 16 | 8020 | 50 | 8473 | <i>G. tumida</i> | 20101217 |
| VM28-229 | 30 | 20200 | 85 | 23646 | <i>G. tumida</i> | 20101217 |
| VM28-227 | 0 | 4710 | 45 | 4924 | <i>G. tumida</i> | 20110429 |
| VM28-227 | 28 | 17350 | 85 | 20166 | <i>G. tumida</i> | 20110429 |

Table 1 (*continued*).

| Core | Core depth (cm) | Radiocarbon date (yr BP) | Error | Calibrated date (yr BP) | Species | Date Reported (YYYYMMDD) |
|----------|-----------------|--------------------------|-------|-------------------------|------------------|--------------------------|
| VM28-227 | 40 | 25800 | 130 | 30312 | <i>G. tumida</i> | 20110429 |
| VM28-213 | 8 | 17350 | 70 | 20172 | <i>G. tumida</i> | 20101217 |
| VM28-213 | 20 | 20500 | 80 | 24020 | <i>G. tumida</i> | 20101217 |
| VM34-2 | 28 | 18050 | 70 | 21156 | <i>G. tumida</i> | 20101217 |
| VM34-2 | 44 | 25200 | 120 | 29630 | <i>G. tumida</i> | 20101217 |

(Reimer and Reimer, 2001). It should be noted that this reservoir value is based solely on data for the top 75 m of the ocean, and that our samples calcified at approximately 150 – 200 m, where the reservoir age may be slightly older. However, we assume that this difference is likely not to exceed a century and therefore assume that dating errors due to the reservoir value will be negligible compared to errors introduced by our low sedimentation rates and bioturbation. For all cores, the shallowest core interval was dated. In order to select the intervals for radiocarbon dating the LGM, we first assumed that the maximum in *G. ruber* $\delta^{18}\text{O}$ occurred at or around the LGM. *G. tumida* tests were then selected for dating from intervals on either side of this position. The age of other intervals in the sediment cores were determined by assuming constant sediment accumulation rates between the radiocarbon-dated intervals. We constructed Late Holocene (0-4 ka before present) and LGM (19-23 ka before present) time slices by averaging the *G. tumida* and *G. ruber* data from these intervals (Table 2), with one exception. In the case of VM28-246, we chose to use the maximum *G. ruber* $\delta^{18}\text{O}$ value, since it was clear to us that the radiocarbon dated LGM interval was capturing Holocene-

aged *G. ruber* tests (Supplementary Figure 1a). These averages contain between 10 and 79 measurements on individual *G. tumida*, and between 1 and 22 measurements on groups of 10 *G. ruber*, depending on the sedimentation rate and sampling interval. The standard error of the mean *G. tumida* value is computed and reported in Table 2 as well.

Table 2: Location and oxygen isotope data for sediment cores

| Core | Position | Depth (m) | LGM S.R. (cm/ka) | Holocene $\delta^{18}\text{O}$ (‰) | Holocene error | LGM $\delta^{18}\text{O}$ (‰) | LGM error |
|----------|-------------------|-----------|------------------|------------------------------------|----------------|-------------------------------|-----------|
| VM28-246 | 14.4°N 142.7°E | 2745 | 0.87 | - | - | -0.14 | 0.11 |
| VM19-110 | 11.9°N 140.1°E | 3523 | 1.81 | - | - | 0.52 | 0.17 |
| GGC-49 | 7.9°N 139.5°E | 2800 | 1.1 | -0.28 | 0.12 | 0.81 | 0.07 |
| RC17-176 | 3.8°N 158.8°E | 3156 | 0.77 | - | - | 0.20 | 0.07 |
| VM24-110 | 2.4°N 156.7°E | 2613 | 0.82 | - | - | 0.20 | 0.11 |
| VM24-150 | 2.2°S 155.7°E | 1849 | 2.94 | -0.96 | 0.10 | 0.25 | 0.09 |
| VM28-236 | 3.6°S 162.0°E | 2637 | 1.78 | - | - | -0.11 | 0.13 |
| VM28-235 | 5.5°S 160.5°E | 1746 | 1.56 | - | - | 0.26 | 0.08 |
| VM28-230 | 5.5°S 166.8°E | 2992 | 1.72 | - | - | 0.36 | 0.11 |
| VM28-233 | 6.3°S 161.4°E | 2334 | 3.46 | -0.96 | 0.06 | 0.49 | 0.15 |
| VM28-234 | 7.1°S 159.0°E | 2719 | 9.16 | -1.02 | 0.04 | 0.52 | 0.07 |
| VM28-229 | 8.4°S 167.8°E | 3669 | 0.92 | - | - | 0.67 | 0.09 |
| VM28-227 | 10.7°S 168.7°E | 3634 | 1.19 | - | - | 0.73 | 0.09 |
| VM28-213 | 14.9°S 176.2°E | 2898 | 3.1 | - | - | 0.21 | 0.07 |
| VM34-2 | 17.7°S 176.1°E | 2579 | 1.89 | - | - | 0.70 | 0.06 |

1.2.4 Predicted isotopic composition from seawater

In order to predict the isotopic composition of foraminiferal calcite precipitated in equilibrium with modern seawater in this region, we first determine the relationship between seawater salinity and $\delta^{18}\text{O}$ values. A least squares linear regression was performed on salinity (S) and seawater oxygen isotope values ($\delta^{18}\text{O}_{\text{water}}$) for the open ocean from 20°N to 20°S and 130°E to 150°W , using data from Schmidt et al. (1999). Since we do not necessarily expect the surface ocean and thermocline to have the same $\delta^{18}\text{O}$ to salinity relationship, we made two separate regressions, one from depths between 0 m and 30 m and the other from depths between 120 and 300 m. This yields a relationship of $\delta^{18}\text{O}_{\text{water}} (\text{VSMOW}) = 0.312S - 10.47$ for the surface ocean and $\delta^{18}\text{O}_{\text{water}} (\text{VSMOW}) = 0.400S - 13.727$ for the thermocline. To relate temperature to calcite $\delta^{18}\text{O}$, we used the linear equation $\delta^{18}\text{O}_{\text{calcite}} (\text{PDB}) = (\delta^{18}\text{O}_{\text{water}} (\text{VSMOW}) - .27) - 0.20T + 3.25$ from (Lynch-Stieglitz et al., 1999), which is based on inorganic calcite precipitation data from (Kim and O'Neil, 1997), and uses an offset of 0.27‰ to adjust VSMOW to VPDB (Hut, 1987).

Combining these equations yields $\delta^{18}\text{O}_{\text{calcite}} (\text{PDB}) = 0.31S - 0.20T - 7.49$ for the surface ocean, and $\delta^{18}\text{O}_{\text{calcite}} (\text{PDB}) = 0.40S - 0.20T - 10.75$ for the thermocline.

1.3 Results

1.3.1 Holocene Thermocline Structure

Due to low sedimentation rates in the open Western Tropical Pacific and possible dissolution of Holocene sediments, only seven sediment cores in our study retained material from the late Holocene—one relatively high resolution core in the center of the Northern Hemisphere ridge, one core north of the Northern Hemisphere ridge, and five cores between the equator and 7°S (Table 2). All seven of these cores show agreement between *G. tumida* $\delta^{18}\text{O}$ values and mean annual calcite $\delta^{18}\text{O}$ values predicted based on World Ocean Atlas data (Antonov et al., 2010; Locarnini et al., 2010), and calcification at 150 – 200 m water depth (Figure 6a), which is also consistent with (Mohtadi et al., 2011). We were able to augment our late Holocene *G. tumida* records with those from other studies (Billups et al., 1999; Faul et al., 2000; Rea et al., 1986; Sagawa et al., 2012) and compare these data from foraminifera to calcite $\delta^{18}\text{O}$ predictions for 150 m depth (Figure 6b). The fact that the ratio between observed *G. tumida* $\delta^{18}\text{O}$ values and calculated $\delta^{18}\text{O}$ values is not one-to-one suggests that the calcification depth is not constant, or that some other factor is affecting *G. tumida* $\delta^{18}\text{O}$. However, the strong positive correlation ($R^2 = 0.88$) suggests that changes in *G. tumida* $\delta^{18}\text{O}$ values are reliably indicative of changes in seawater $\delta^{18}\text{O}$ values at 150 m. Our late Holocene data show a good match between *G. ruber* – *G. tumida* $\Delta\delta^{18}\text{O}$ (the difference between the $\delta^{18}\text{O}$ values of the two species) and $\Delta\delta^{18}\text{O}$ between the ocean and 0 m depth and 150 m depth. This relationship is based on fewer data, and has a slightly lower correlation ($R^2 = 0.73$) than the relationship between *G. tumida* $\delta^{18}\text{O}$ and 150 m depth calculated equilibrium $\delta^{18}\text{O}$. The lower correlation results from the facts that fewer cores have both *G. tumida* and *G. ruber* data for the Late

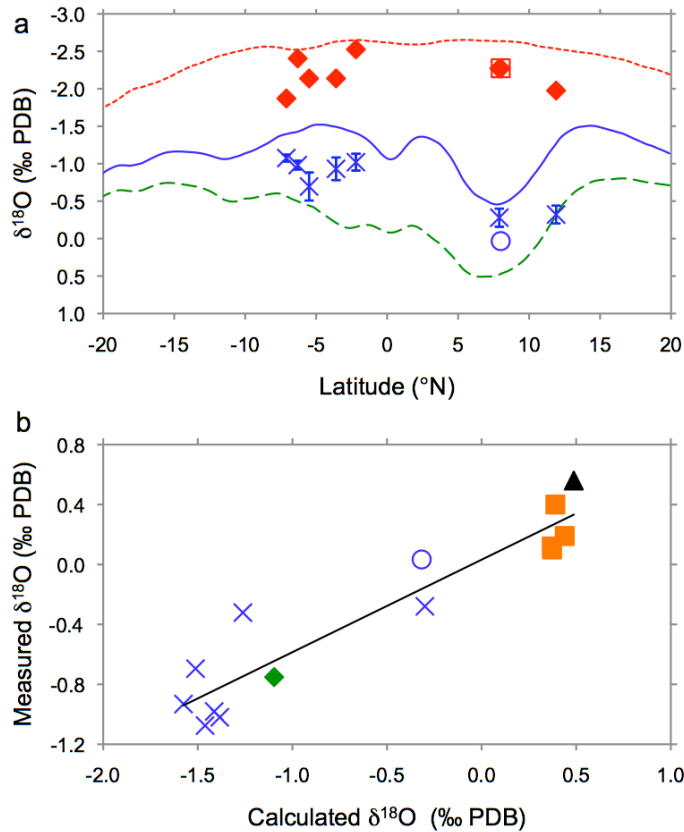


Figure 6: Average measured late Holocene foraminiferal $\delta^{18}\text{O}$ values compared to calculated expected $\delta^{18}\text{O}$ equilibrium calcite values, calculated along the transect line shown in Figure 5, at 0, 150, and 200 m depth. (a) Calculated $\delta^{18}\text{O}$ values at 0 m (red line), 150 m (blue line), and 200 m (green line) and measured late Holocene *G. ruber* (red diamonds) and *G. tumida* (blue crosses) $\delta^{18}\text{O}$. Error bars on the *G. tumida* averages represent standard error of the mean. Also shown are the *G. ruber* (red square) and *G. tumida* (blue circle) values from Sagawa et al. (2012). (b) Average measured Holocene *G. tumida* $\delta^{18}\text{O}$ values versus calculated values at 150 m for data from this study (blue crosses); Faul et al. (2000) (orange squares); Billups et al. (1999) (green diamond); Sagawa et al. (2012) (blue circle); and Rea et al. (1986) (black triangle). Trend line is a linear least squares fit: measured calcite $\delta^{18}\text{O} = 0.62(\text{calculated calcite } \delta^{18}\text{O}) - 0.03$; $R^2 = 0.88$. Equations used for calculated calcite $\delta^{18}\text{O}$ are in Section 2.4 and use salinity and temperature data from 0, 150, and 200 m depth from the World Ocean Atlas (Antonov et al., 2010; Locarnini et al., 2010).

Holocene (our own seven cores and the data from Faul et al. (2000) and Sagawa et al. (2012)), that we have less temporal constraint on our *G. ruber* data, and that the *G. ruber* tests are not as well preserved as the more robust *G. tumida* tests.

1.3.2 LGM Thermocline structure

The LGM *G. tumida* $\delta^{18}\text{O}$ values in the Northern Hemisphere are quite similar to the modern observed and predicted values, once we account for the whole ocean oxygen isotope change of about 1‰ (Schrag et al., 1996) (Figure 7a). For the Northern Hemisphere sediment core for which we have both Late Holocene and LGM data (GGC-49 at 7.9°N), there is no significant difference between late Holocene *G. tumida* $\delta^{18}\text{O}$ values and LGM *G. tumida* $\delta^{18}\text{O}$ values (shifted by -1‰ to account for whole ocean changes) based on a two-tailed Welch's t-test, $p < 0.01$. This implies that the structure of the Northern Hemisphere thermocline does not—within the resolution of our data—change significantly between the LGM and the Holocene.

In the Southern Hemisphere, the *G. tumida* – *G. ruber* $\Delta\delta^{18}\text{O}$ for sediment cores located between 5°S and 11°S is larger during the LGM than the predicted values for the Holocene. This range is approximately the same distance south from the equator as the present day ridge is north from the equator in the Northern Hemisphere. Of the seven cores which have both Holocene and LGM material—two in the Northern Hemisphere, five in the Southern Hemisphere—only those at 6.3°S and 7.1°S show a significant difference between Holocene and LGM – 1‰ values (Welch's one-tailed t-test, $p < 0.01$). The change in $\Delta\delta^{18}\text{O}$ associated with this change in *G. tumida* $\delta^{18}\text{O}$ suggests that there is

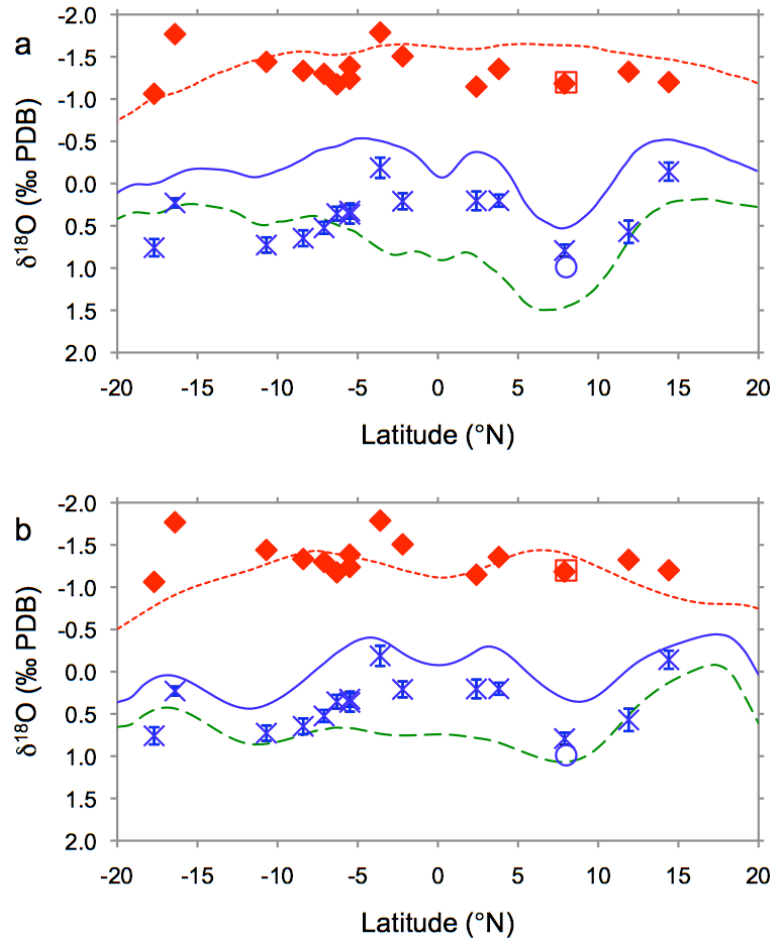


Figure 7: Average measured $\delta^{18}\text{O}$ values for LGM *G. ruber* (red diamonds) and *G. tumida* (blue crosses). Error bars for measured $\delta^{18}\text{O}$ values represent standard error of the mean, calculated from a minimum of 10 samples. Also shown are the *G. ruber* (red square) and *G. tumida* (blue circle) values from Sagawa et al. (2012). a) LGM data compared to predicted values based on temperature and salinity values from the World Ocean Atlas (Antonov et al., 2010; Locarnini et al., 2010) at 0 m (red line), 150 m (blue line), and 200 m (green line) along the transect in Figure 5 assuming no change in upper ocean structure between the Holocene and LGM. $\delta^{18}\text{O}$ values for transects were calculated as in Figure 6, but shifted by +1‰ to account for the glaciation-induced whole ocean water $\delta^{18}\text{O}$ change between the Holocene and LGM (Schrag et al., 1996). b) LGM data compared to predicted values based on the response of the GFDL CM2.0 global coupled ocean-atmosphere model to an imposed anomalous freshwater flux into the northern North Atlantic (model and experiment details provided in Zhang and Delworth (2005)). Seawater $\delta^{18}\text{O}$ is predicted from model salinity using the same equations as described for the observations in Section 2.4. $\delta^{18}\text{O}$ values for modeled transects were shifted by +1‰ to account for the glaciation-induced whole ocean water $\delta^{18}\text{O}$ change between the Holocene and LGM (Schrag et al., 1996).

a shoaling of the thermocline, rather than a uniform cooling of the upper ocean in the Southern Hemisphere

1.4 Discussion

1.4.1 Relationship between LGM thermocline ridges and ITCZ

Since the ridge in the Northern Hemisphere thermocline is dynamically linked to the position of the ITCZ, and there is data consistent with a similar ridge during the LGM, the simplest conclusion is that, like today, there was a Northern Hemisphere ITCZ over the tropical Pacific during the LGM between 4°N and 12°N. Our data also suggest a shoaling in the thermocline in the Southern Hemisphere between 5°S and 11°S, implying a zonal band of upper ocean divergence across the ocean basin at this latitude for at least part of the LGM. While there are different ways to produce the shoaling in the thermocline that we observe in the Southern Hemisphere, the pattern of wind stress curl expected for a Southern Hemisphere ITCZ, or a more zonal SPCZ, would produce such a ridge in the thermocline as discussed in Section 1.3. When we compare our LGM *G. tumida* $\delta^{18}\text{O}$ transect to the values predicted for the model experiment in Zhang and Delworth (2005) which shows a double ITCZ with a strong Southern Hemisphere ridge, we find a reasonable fit (Figure 7b). This is not to say that the mechanism driving the ITCZ shift in the model (freshwater hosing in the North Atlantic) is driving the observed LGM structure, but simply that the LGM data are consistent with the wind stress field exhibited by this model run which includes a double ITCZ. It is interesting to note that the coupled climate model experiments driven by LGM boundary conditions that were analyzed by diNezio et al. (2011) do not show consistent changes in the thermocline structure in the Western Pacific, and that the changes seen are generally quite subtle

compared to the experiment from Zhang and Delworth (2005) that we show here. As discussed above, these LGM simulations do not show dramatic changes in the ITCZ (Braconnot et al., 2007).

However, we should emphasize that, based on time resolution of our data, we cannot say whether a Northern or Southern Hemisphere ITCZ was necessarily present for the entirety of our 4000 year time slice. The evidence for a thermocline ridge from LGM aged sediments in both hemispheres is consistent with three different scenarios. The first is that a permanent double ITCZ occurred during the LGM, resulting in a permanent symmetry about the equator in both atmosphere and thermocline structure (a symmetric atmosphere and symmetric ocean). The second is that a single ITCZ occurred, but switched between Northern and Southern Hemispheres on a short enough (e.g. seasonal) timescale to cause a thermocline ridge in each hemisphere (an asymmetric atmosphere and symmetric ocean). The third is that the ITCZ switched between hemispheres on a longer timescale, and that the thermocline ridge also moved between hemispheres, but we see two ridges due to averaging our data over 4000 years (an asymmetric atmosphere and asymmetric ocean). Although our data lack the temporal resolution necessary to distinguish between these hypotheses, they do lend support to the idea of a Southern Hemisphere ITCZ for at least some of the time during the LGM.

While an atmospheric circulation showing a more pronounced Southern Hemisphere ITCZ appears to be consistent with our data, there are other atmospheric circulation states that could produce a similar Southern Hemisphere ridge or dome in the Western Tropical Pacific. For example, as discussed in section 1.3 today there is a subtle Southern Hemisphere ridge in the Western Tropical Pacific associated with the negative

wind stress curl of the Subtropical Convergence, which is slightly stronger than the more positive wind stress curl over the central and eastern Pacific at the same latitude. If the circulation associated with the Subtropical Convergence were to intensify, a ridge or dome in the Western Tropical Pacific might intensify.

Today the Western Pacific Monsoon drives annual thermocline depth changes of up to 25 m in the Western Tropical Pacific centered at approximately 15°S and 165°E (Wang et al., 2000). The minimum thermocline depth in April and May reflects the minimum in wind stress curl (maximum in Ekman pumping) in this region three months earlier at the height of the Southern Hemisphere summer monsoon. One might speculate that we would see some shoaling of the thermocline in this region if the Southern Hemisphere summer monsoon strengthened during the LGM. However, the glacial-interglacial changes in these monsoon regions are likely to be more subtle than the annual range. The doming associated with the modern day monsoon is also further to the south than the ridge in our LGM transect. The annual range in thermocline depth driven by the Western Pacific Monsoon is minimal over our core sites between 4°S and 10°S (Wang et al., 2000) where the data is suggesting a shallower LGM thermocline.

1.4.2 Data Considerations

The above discussion is based on the assumption that our LGM profile fully captures the thermocline structure in the tropical Pacific. However, generating open ocean isotopic records in the tropical Pacific is hampered by low sedimentation rates and dissolution effects. The effects of coring disturbances can also be magnified when attempting high resolution studies in low sedimentation rate areas. More data are needed

before we can conclude that the changes in thermocline structure we have identified (particularly the Southern Hemisphere ridge) are robust features of the LGM ocean.

1.4.2.1 Constraining the Southern End of the LGM transect

The data from the core at 16°S (RC12-117, Figure 8a) drives our interpretation of the higher $\delta^{18}\text{O}$ values in the Southern Hemisphere tropics as a ridge. If this core, and the core at 4°S (VM28-236, Figure 8b) were not considered, one might interpret the data to suggest a generalized increase in density in the Southern Hemisphere thermocline, rather than a ridge analogous to that found in the Northern Hemisphere today. We do have another core at 14°S (VM28-213, Supplemental Figure 1n). While the out of sequence radiocarbon date at the top of the core precludes including this core in our LGM and Holocene transects, this core shows *G. tumida* values very similar to those shown for RC12-117 at 16°S and increases our confidence that the relatively low *G. tumida* $\delta^{18}\text{O}$ value at 16°S represents a real oceanographic feature.

1.4.2.2 Age constraints on *G. ruber*

Age offsets may occur between fossils of species with different vulnerabilities to dissolution in low sedimentation rate cores (Broecker and Clark, 2011). This means that for many of the cores used in this study, we have to consider the possibility that the *G.*

ruber from the portion of the core that contains LGM aged *G. tumida* may be of a different age. We can assess the degree to which this may be affecting the lower sedimentation rate cores by looking at the *G. ruber* time series in the relatively high sediment rate core VM28-234, which should not show large age offsets between the different species. In this core there is no indication of an offset between radiocarbon dates for *G. tumida*, and dates on *G. ruber* and *G. sacculifer* (Table 1). The maximum

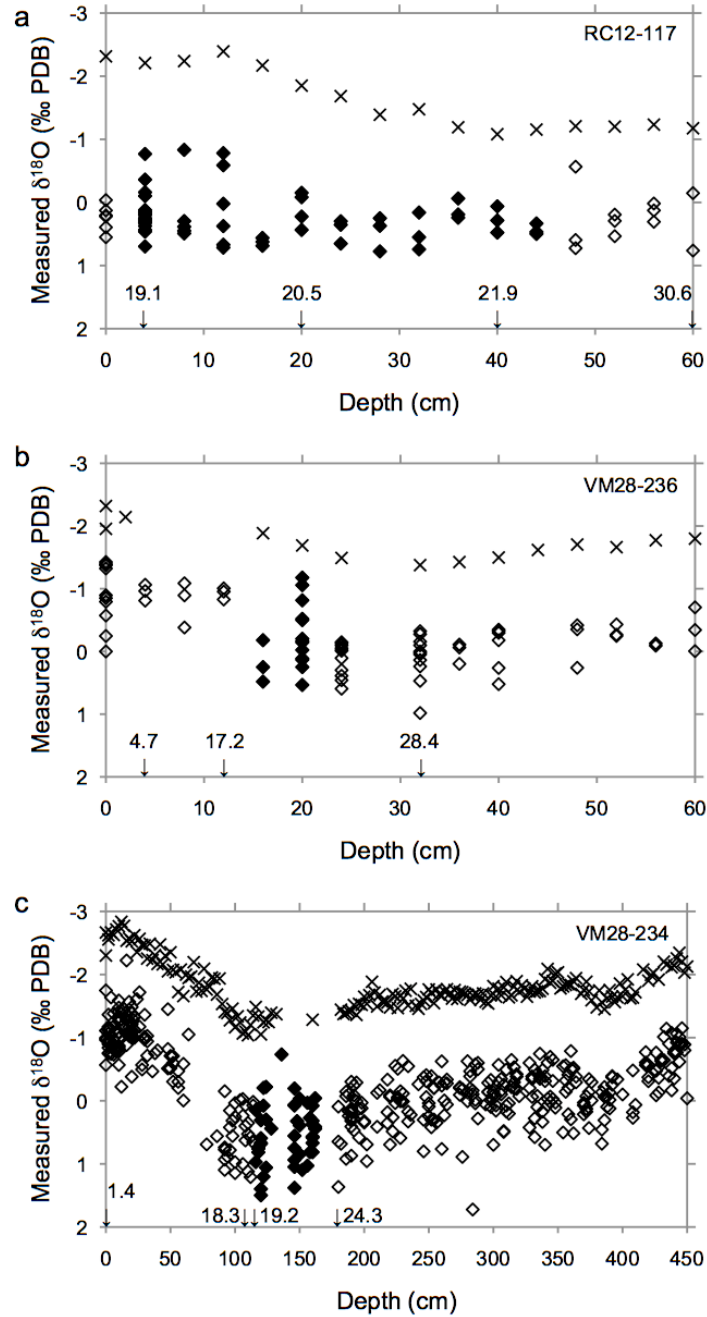


Figure 8: Measured *G. ruber* $\delta^{18}\text{O}$ (crosses) and *G. tumida* $\delta^{18}\text{O}$ (diamonds) versus depth into sediment of select sediment cores. Filled diamonds represent *G. tumida* data used for LGM averages. Numbers with arrows represent radiocarbon dates converted to calendar age (ka) at given depth (a) RC12-117, 16.4°S 174.5°E. (b) VM28-236, 3.6°S 162.0°E. (c) VM28-234, 7.1°S 159.0°E.

$\delta^{18}\text{O}$ value *G. ruber* occurs nearer to the core top than the LGM dated material, suggesting that the *G. ruber* maximum $\delta^{18}\text{O}$ value occurs slightly more recently than 19 ka BP (Figure 8c). In all other cores, the *G. ruber* maximum $\delta^{18}\text{O}$ value occurs either within or deeper into the sediment than the *G. tumida* radiocarbon intervals (examples in Figure 8, also see Supplemental Figure 1). This suggests that in low sedimentation rate sediment cores, LGM-aged *G. ruber* are found deeper into the sediment than LGM-aged *G. tumida* tests. However, the differences between the maximum $\delta^{18}\text{O}$ *G. ruber* values and $\delta^{18}\text{O}$ values from *G. ruber* tests which have been taken from the same sediment intervals as the LGM *G. tumida* are relatively small. Since this difference is small, we have chosen to compare *G. tumida* and *G. ruber* tests from the same depth intervals in each core, except in one case. In core VM28-246, radiocarbon-dated *G. tumida* tests are clearly associated with early Holocene *G. ruber* tests, based on the *G. ruber* stratigraphy (Supplemental Figure 1a). In this case, we have used *G. ruber* tests from the next interval deeper into the sediment to represent *G. ruber* from the LGM.

1.4.2.3 Skewness and variance in *G. tumida* data

Part of the difficulty in working with very low sedimentation rate cores is that bioturbation can cause mixing between tests with lighter Holocene $\delta^{18}\text{O}$ values and heavier LGM $\delta^{18}\text{O}$ values. In the Western Tropical Pacific, mixing occurs to a depth of around 10 cm (Broecker et al., 1991). For a core with a sedimentation rate of 1 cm ka^{-1} , the Late Holocene and LGM (as used in this paper) are only separated by 15 cm. We would therefore expect that Late Holocene $\delta^{18}\text{O}$ values would be skewed towards LGM values, and that LGM $\delta^{18}\text{O}$ values would be skewed towards Holocene values. This skew is apparent in the *G. tumida* $\delta^{18}\text{O}$ values from the Holocene intervals of most of our

cores, although cores VM28-234 and GGC-49 are skewed in the opposite direction (Supplemental Table 1). The LGM *G. tumida* $\delta^{18}\text{O}$ values, however, seem to show no pattern in their skew, either in direction or magnitude (Supplemental Table 2).

1.5 Conclusion

The $\delta^{18}\text{O}$ values of the foraminifera *G. ruber* and *G. tumida* reflect seawater properties at approximately 0 m and 150 – 200 m depth and allow us to qualitatively reconstruct the structure of the thermocline. During the LGM, the gradient in $\delta^{18}\text{O}$ between the two species does not change significantly in the Northern Hemisphere, relative to the late Holocene, implying that the ridge in the thermocline which exists now also existed at some point during the LGM. However, since we are considering a 4000 year average, and we are unable to compare the thermocline during two time periods quantitatively, we can only make the qualified claim that the ITCZ continued to exist over at least part of the Northern Hemisphere Pacific for at least part of the time interval of the LGM (19-23 ka). In the Southern Hemisphere, the difference between *G. ruber* and *G. tumida* $\delta^{18}\text{O}$ values increases between 7°S and 10°S, implying that the thermocline shoals at these latitudes during all or part of the LGM. The reconstructed structure is consistent with that produced in a General Circulation Model with both a Northern and Southern Hemisphere ITCZ. While this ridge in the thermocline is consistent with the existence of a Southern Hemisphere marine ITCZ, for all or part of the time interval of the LGM (19-23 ka), other circulation states could lead to a similar structure. Distinguishing between possible circulation states will require more data from more locations, but we have shown here that thermocline depth reconstructions are

potentially a powerful tool for inferring the patterns of atmospheric circulation in the tropics during times in the past.

CHAPTER 2

**TOWARDS RECONSTRUCTING THE WESTERN PACIFIC THERMOCLINE
STRUCTURE AND THE PACIFIC MARINE INTERTROPICAL
CONVERGENCE ZONE DURING MARINE ISOTOPE STAGES 5e AND 6**

2.1 Introduction

In the previous chapter, I attempted to reconstruct the western tropical Pacific thermocline during the LGM in order to constrain the position of the glacial ITCZ. As mentioned, many studies, based on both proxy-based reconstructions and climate models, support a more southerly ITCZ during the LGM, but do not give a precise location. In Chapter One, I presented evidence consistent with a Southern Hemisphere ITCZ at some point during the LGM. However, the exact position of the ITCZ during previous glacial cycles has not been much studied. As discussed in chapter one, there is both paleo-proxy based and model based evidence for a southern shift of the Pacific ITCZ between the Holocene and the LGM, but less evidence for the actual position. In the case of earlier glacial cycles, there is less study still. If a reconstruction of the western tropical Pacific thermocline showed a Southern Hemisphere thermocline ridge during MIS 6, that would lend support to the southward shifted glacial ITCZ suggested in the previous chapter. The state of the tropical Pacific thermocline and ITCZ during MIS 5e are of interest because MIS 5e is in some respects an analogue for a warmer Holocene. However, gaps in the isotope data and difficulties with dating the low-sedimentation rate sediment cores of the western tropical Pacific mean that only the Northern Hemisphere thermocline can

be reconstructed for MIS 5e and 6, and without a precise location for the Northern Hemisphere thermocline ridge.

2.1.1 Paleo-proxy reconstructions and climate models of MIS 5e and 6

Marine Isotope Stage (MIS) 5e is the most recent analogue of the Holocene. It is especially worthwhile reconstructing MIS 5e in the context of modern climate change concerns because MIS 5e is believed to be warmer and wetter than the present, with a higher sea level (Bianchi and Gersonde, 2002). One alkenone reconstruction yields SSTs in the Southern Hemisphere which are higher during MIS 5e than during the early Holocene, and warmer during MIS 6 than during the LGM, with increased equator-pole temperature gradients during the glaciation at MIS 6 versus the LGM (Pahnke and Sachs, 2006). Similarly, another alkenone reconstruction shows that sea surface temperatures in the southeastern Pacific were warmer than the Holocene during the four preceding interglacials, and warmer than the LGM during any of the four preceding glacials (Calvo et al., 2001). Bianchi and Gersonde (2002) show diatom assemblages from the Southern ocean which seem to indicate sea surface temperatures 2-3°C higher than present at the end of Termination II.

In the Northern Hemisphere, several lines of evidence support a Last Interglacial which was warmer than the Holocene (Kukla et al., 2002). A synthesis of various paleo-proxies suggests that the Arctic summers of MIS 5e were approximately 5°C warmer than Holocene Arctic summers (Anderson et al., 2006).

These paleo-proxy data are supported by a CCSM study of the Last Interglacial in which Arctic summer temperatures exceed those of the Holocene by an average of 2.4°C (Otto-Bliesner et al., 2006). In another GCM study of the Last Interglacial, tropical

Pacific precipitation decreased north of the equator and increased south of the equator as northern high latitude SSTs decreased by 2-3°C between 125 and 115 ka (Gröger et al., 2007), which may support the idea of relatively stronger convection during MIS 5e compared to the Holocene. Additionally, Dubois and Keinast (Dubois et al., 2009) suggest that a northward-shifted ITCZ is responsible for changes in ocean convergence in the eastern equatorial Pacific, based on nitrogen isotope data.

In Chapter One, the hypothesis was that a reduced interhemisphere temperature gradient during the LGM, relative to the Holocene would cause the ITCZ to move southward from its current position. This hypothesis assumes that glacial-interglacial temperature variations are greater in the Northern Hemisphere. If this is the case, then I should expect to see a southward movement of the ITCZ during MIS 6, analogously with the LGM, although the relative warmth of MIS 6 versus the LGM means that the movement may not be as large as that suggested in Chapter One. Since MIS 5e is warmer than the Holocene, it is possible that the ITCZ might be either north of its Holocene position, or more intense.

2.2 Methods

G. tumida from sediment core intervals were radiocarbon dated to the LGM as discussed in chapter one. Since radiocarbon dating is limited to the most recent 40 ka, this method is inappropriate for MIS 5e and 6. Instead, as in chapter one, the *G. ruber* $\delta^{18}\text{O}$ stratigraphy has been used to give a rough estimate of the depth into the sediment of Termination II. For three of the sediment cores (VM24-110, VM28-233, and VM28-213) only the *G. ruber* $\delta^{18}\text{O}$ stratigraphy is available (Figure 9). For four of the sediment

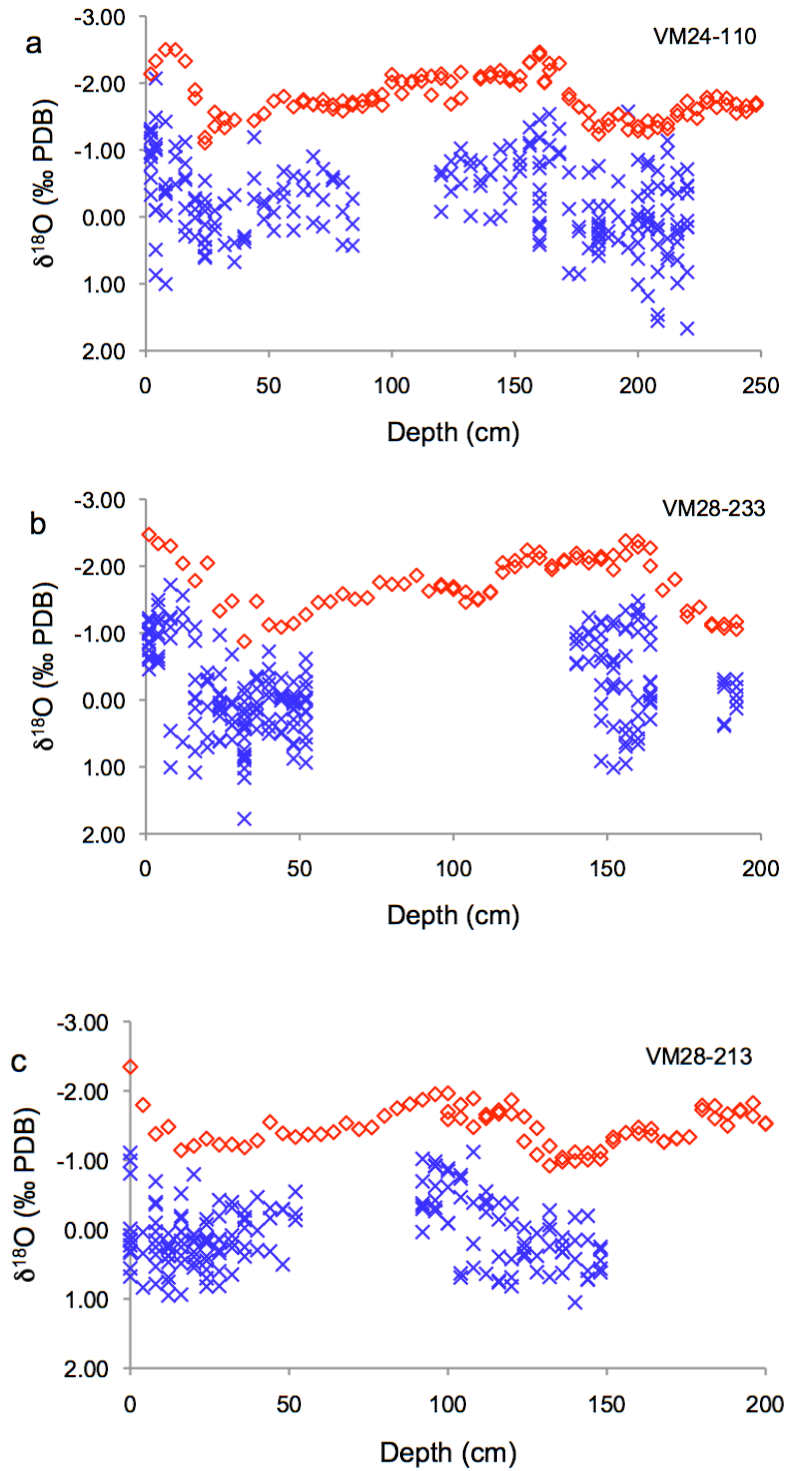


Figure 9: Measured *G. ruber* $\delta^{18}\text{O}$ (red diamonds) and individual *G. tumida* $\delta^{18}\text{O}$ (blue crosses) versus depth into sediment for cores used in this chapter. (a) VM24-110, 2.4°N 156.7°E (b) VM28-233, 6.3°S 161.4°E (c) VM28-213, 14.9°S 176.2°E

cores (VM28-246, GGC-49, RC17-176, and VM28-234), the $\delta^{18}\text{O}$ stratigraphy of *Cibicides wuellerstorfi* (picked from the $< 500 \mu\text{m}$ size interval) was available and has also been used (Figure 10). For the purposes of this study, the absolute dating of MIS 5e and MIS 6 is less important than the difference in climate between the stages. For this reason, a benthic stack based dating is used as a guide, where the data is available, but actual MIS 5e and MIS 6 data is assumed to be represented by extremes in the stratigraphy of each species in each core. For example, I will be defining MIS 6 for *G. tumida* as the sediment intervals containing *G. tumida* with maximal $\delta^{18}\text{O}$, rather than necessarily as the sediment intervals containing *C. wuellerstorfi* which have been wiggle matched to the LR04 stack.

Due to the uncertainties discussed in the previous section, using a benthic $\delta^{18}\text{O}$ stratigraphy such as LR04 (Lisiecki and Raymo, 2005) to date my *G. tumida* samples may not work well for such low sedimentation rate cores. Slowey and Curry (1995) argued that glacial and interglacial isotope fractionation values could be established in bioturbated, low sedimentation rate cores by analyzing tests singly and then examining the data (in their case $\delta^{13}\text{C}$) associated with tests which had minimal or maximal $\delta^{18}\text{O}$ values. This method has also been used by Matsumoto and Lynch-Stieglitz (1999) to differentiate glacial and interglacial benthic foraminifera at low sedimentation rate sites in the Pacific. The advantage of the method is that, even if a given interval is not necessarily dated to the glacial maximum, it may contain glacial maximum-aged material which can be easily identified. This is especially useful in this study in cases where data collection has been truncated. However, Matsumoto and Lynch-Stieglitz (1999) had very

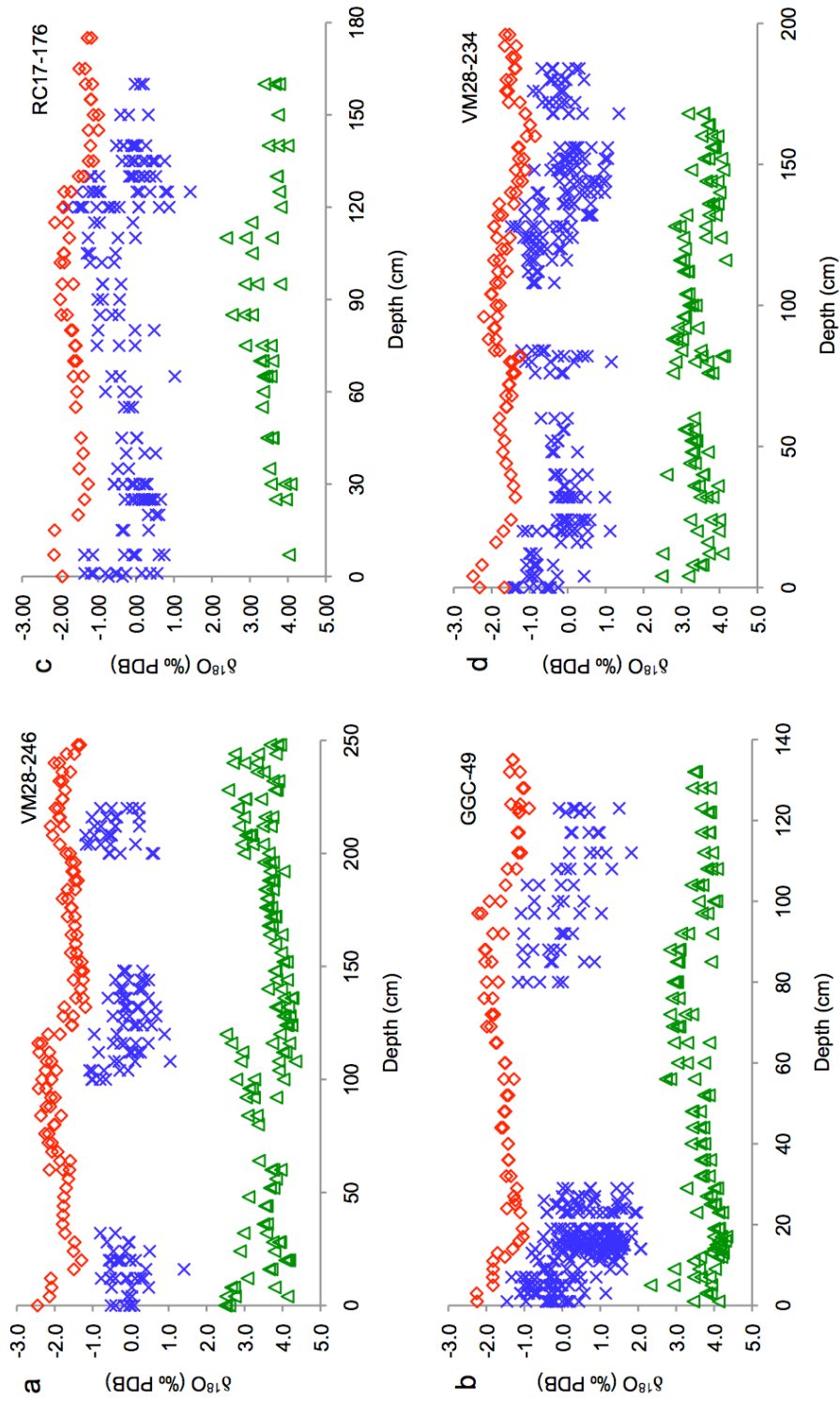


Figure 10: *G. ruber* $\delta^{18}\text{O}$ (red diamonds), individual *G. tumida* $\delta^{18}\text{O}$ (blue crosses), and individual *C. wuellerstorfi* $\delta^{18}\text{O}$ (green triangles) versus depth into sediment for cores used in this chapter. (a) VM28-246, 14.4°N 142.7°E (b) GGC-49, 7.9°N 139.5°E (c) RC17-176, 3.8°N 158.8°E (d) VM28-236, 3.6°S 162.0°E.

well separated populations with an obvious bimodal distribution of $\delta^{18}\text{O}$ values, which is lacking in my data. Instead, I have used the *G. tumida* $\delta^{18}\text{O}$ stratigraphy to locate the deglaciation (as a relatively large change in *G. tumida* $\delta^{18}\text{O}$ values which is also close to a relatively large change in the *G. ruber* and *C. wuellerstorfi* $\delta^{18}\text{O}$ data), and then used all collected data on either side to establish values for MIS 5e and 6. As in chapter one, the fact that whole ocean $\delta^{18}\text{O}$ values change slightly over the course of a glacial interval, and the probable mixing in the sediment mean that the differences in *G. tumida* $\delta^{18}\text{O}$ values between MIS 5e and MIS 6 are probably smaller than the actual change in seawater $\delta^{18}\text{O}$. *G. tumida* from the 425-500 μm size interval were picked from the probable sediment intervals of MIS 5e and 6, and isotopic analysis was performed as described in chapter one.

2.3 Results

Core GGC-49 is heavier than other cores during both isotope stages (Figures 11 and 12). This implies the existence of a Northern Hemisphere ITCZ during both MIS 5e and MIS 6, although the same caveats must be applied to this assertion as were applied in chapter one. The first is that the causal link between thermocline ridge and ITCZ position is not necessarily settled, and that local effects, such as the influence of the monsoons, may affect the shape of the thermocline in the Western Tropical Pacific as much as basin-wide effects. Secondly, that the appearance of the ridge in this data set does not prove the continuous existence of the ridge (and therefore the Northern Hemisphere ITCZ) during the two time periods, since bioturbation on such low-sedimentation rate sediment cores necessarily requires averaging over large time intervals. Thirdly, no attempt at quantification is assumed, which means that this data cannot be used to assess actual

changes in the shape or magnitude of the ridge, and therefore cannot yield qualitative assessments of the ITCZ.

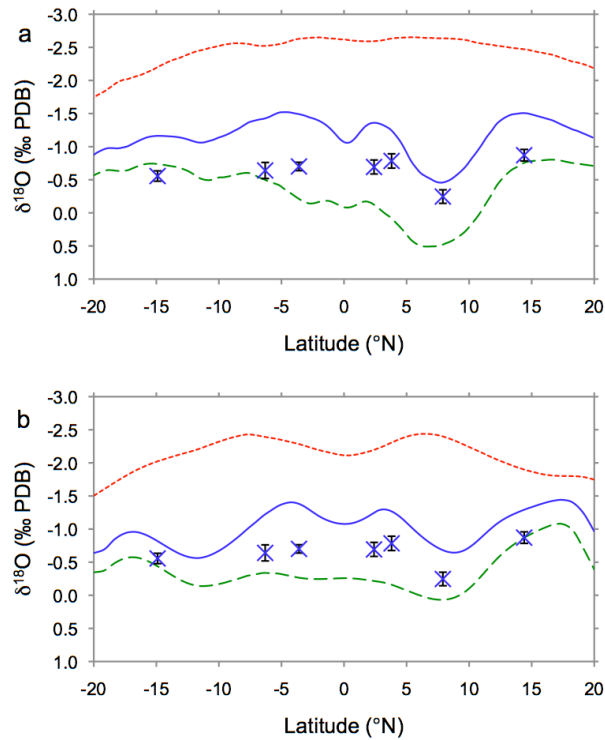


Figure 11: Average measured $\delta^{18}\text{O}$ values for MIS 5e *G. tumida* (blue crosses). Error bars for measured $\delta^{18}\text{O}$ values represent standard error of the mean. a) MIS 5e data compared to predicted values based on temperature and salinity values from the World Ocean Atlas (Antonov et al., 2010; Locarnini et al., 2010) at 0 m (red line), 150 m (blue line), and 200 m (green line) along the transect in Figure 5 assuming no change in upper ocean structure between the Holocene and MIS 5e. b) MIS 5e data compared to predicted values based on the response of the GFDL CM2.0 global coupled ocean-atmosphere model to an imposed anomalous freshwater flux into the northern North Atlantic (model and experiment details provided in Zhang and Delworth (2005)). Seawater $\delta^{18}\text{O}$ is predicted from model salinity using the same equations as described for the observations in Chapter 1, Section 2.4.

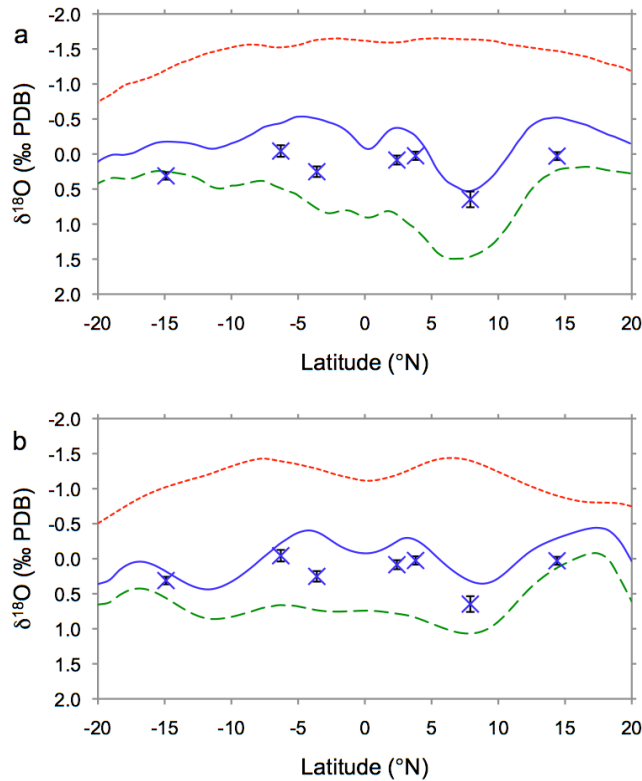


Figure 12: Average measured $\delta^{18}\text{O}$ values for MIS 6 *G. tumida* (blue crosses). Error bars for measured $\delta^{18}\text{O}$ values represent standard error of the mean. a) MIS 6 data compared to predicted values based on temperature and salinity values from the World Ocean Atlas (Antonov et al., 2010; Locarnini et al., 2010) at 0 m (red line), 150 m (blue line), and 200 m (green line) along the transect in Figure 5 assuming no change in upper ocean structure between the Holocene and MIS 6. $\delta^{18}\text{O}$ values for transects were calculated as in Figure 6, but shifted by +1‰ to account for a glaciation-induced whole ocean water $\delta^{18}\text{O}$ change, assuming that the difference between the Holocene and MIS 6 values is the same as that between the Holocene and LGM (Schrag et al., 1996). b) MIS 6 data compared to predicted values based on the response of the GFDL CM2.0 global coupled ocean-atmosphere model to an imposed anomalous freshwater flux into the northern North Atlantic (model and experiment details provided in Zhang and Delworth (2005)). Seawater $\delta^{18}\text{O}$ is predicted from model salinity using the same equations as described for the observations in Chapter 1, Section 2.4. $\delta^{18}\text{O}$ values for modeled transects were shifted by +1‰ to account for a glaciation-induced whole ocean water $\delta^{18}\text{O}$ change between the Holocene and MIS 6, assuming that the difference between the Holocene and MIS 6 is the same as that between the Holocene and LGM (Schrag et al., 1996).

2.4 Discussion

2.4.1 Uncertainties in Dating of MIS 5e and MIS 6 material

Since radiocarbon dating is inappropriate for materials much older than 30 ka, other methods must be used to date sediment from MIS 5 and 6. Shackleton (1967) was one of the early studies to argue that the main signal in benthic foraminiferal $\delta^{18}\text{O}$ over time was global ice volume, and Broecker and van Donk (1970) linked global $\delta^{18}\text{O}$ to glaciation to insolation forcing at high latitude. This means that benthic foraminifera $\delta^{18}\text{O}$ values can be assumed to be a glaciation stratigraphy, and that terminations (rapid deglaciations) can be linked to insolation curves. Since insolation curves can be calculated back through time, glaciations can be dated. The main source of error in this dating method is due to the offset between the climate signal and the response in the deep ocean. There is some evidence that changes in deep water $\delta^{18}\text{O}$ records may not be synchronous with glacial sea level change (Skinner and Shackleton, 2006), and there may be an offset between basins (Skinner and Shackleton, 2006). The LR04 stack (Lisiecki and Raymo, 2005) is a global average of sediment core data, and therefore assumes no offset between ocean basins. These types of errors are related to the relative dating of the cores. However, even if a proper age model can be applied to the benthic stratigraphy, there are still problems dating planktonic foraminifera by this method, because of potential age offsets between benthic and planktonic species within the same sediment interval.

There is an offset between planktonic and benthic foraminifera in the tropical Pacific of approximately 1000 years, caused by transit time from the surface to deep water for Pacific Deep Water (Stott et al., 2007). This transit time causes differences in

reservoir ages for the deep and surface ocean, which means that, all else being equal, species which show different radiocarbon ages in a single sediment interval are not different ages. However, it also hints that there may be delays between planktonic foraminifera recording a climate event and benthonic foraminifera recording it (because of the time taken for the signal to propagate from surface to deep ocean).

There is evidence that tests from fragile and robust foraminifera in the same sediment interval will have different radiocarbon ages, due to differential dissolution between different species with different susceptibility to dissolution (Broecker and Clark, 2011). These age offsets will occur even where radiocarbon dating is not used. On the other hand, these offsets are on the order of a thousand years (Broecker et al., 2006), which is comparable to the error in dating which occurs when using matching to benthic $\delta^{18}\text{O}$ records (Oliver et al., 2010). Since this offset generally occurs between robust and fragile species, this should be less of a concern when comparing *G. tumida*, which is a comparatively robust planktonic foraminifera (Berger, 1970) and *C. wuellerstorfi* as a benthic foraminifera are considered robust, this is unlikely to be a major factor in this case.

Another limitation is that bioturbation causes tests of one age to be present in several different sediment intervals. This is probably most evident in the benthic stratigraphy of core VM28-246 where there is a bimodal distribution of *C. wuellerstorfi* $\delta^{18}\text{O}$ values at MIS 5e and MIS 6 (Figure 10a). The separate populations are most likely from before and after the abrupt deglaciation, and have been mixed together. If we assume that this is the case, we can separate $\delta^{18}\text{O}$ values of individual *G. tumida* and

assume that the lighter values represent MIS 5e values and that the heavier values are from MIS 6.

2.4.3 Comparison of MIS 5e and 6 data to predicted and modeled data

I can test the hypothesis that MIS 5e and MIS 6 are analogous to the Holocene and LGM, respectively, by comparing the *G. tumida* $\delta^{18}\text{O}$ data to observational data and modeled data, as in chapter one. This comparison is presented in Figures 11 and 12, and the *G. tumida* data sit between the 150 m and 200 m depth reconstructions in all cases. This is unsurprising, since I expect to see the largest change in thermocline structure in the Southern Hemisphere at approximately 6-14°S, and this reconstruction only contains *G. tumida* $\delta^{18}\text{O}$ data from outside this region. Although key Southern Hemisphere data is missing, these data are consistent with the Northern Hemisphere remains relatively unchanged during the MIS 5e and MIS 6.

The two transects appear to be very similar to each other, with an offset of approximately 0.8-0.9‰, except for core VM28-213, which has a smaller gap. Most notably, *G. tumida* of core GGC-49 are isotopically heavier than the other Northern Hemisphere sediment cores in both MIS 5e and MIS 6. This implies that the Northern Hemisphere thermocline ridge which was evident in both the late Holocene and LGM also persists before and after Termination II. Combining the data presented in chapter one with the data presented in this chapter, the evidence is consistent with a Northern Hemisphere thermocline ridge, and therefore a Northern Hemisphere ITCZ, for at least part of MIS 1, 2, 5e, and 6.

Unfortunately, Southern Hemisphere data in the critical area between 6°S and 14°S is missing. In chapter one, *G. tumida* oxygen isotope data from several cores at

these latitudes were isotopically heavier during the LGM than data from the rest of the Southern Hemisphere. This implied a Southern Hemisphere thermocline ridge, and therefore a Southern Hemisphere ITCZ during the LGM. For MIS 5e in the Northern Hemisphere, *G. tumida* $\delta^{18}\text{O}$ data fit well between predicted calcite equilibrium $\delta^{18}\text{O}$ values calculated (as described in chapter one) based on salinity and temperature data at 150 m and 200 m (Figure 11). For MIS 6, the Northern Hemisphere *G. tumida* $\delta^{18}\text{O}$ data fit between the same values, plus 1‰. One per mille is added to make the calculated values a more reasonable representation of the MIS 6 glacial (the actual value versus modern is not well known).

If the Northern Hemisphere MIS 5e and 6 *G. tumida* $\delta^{18}\text{O}$ data are similarly compared to estimates based on the output data of (Zhang and Delworth, 2005), the fit is also good (Figures 11 and 12). The differences between World Ocean Atlas derived values and values based on Zhang and Delworth during the LGM are significant. But when I compare my Southern Hemisphere *G. tumida* data for MIS 5e and 6 to the World Ocean Atlas and these Zhang and Delworth based profiles, it is evident that data is missing from the location of the SH thermocline ridge predicted by Zhang and Delworth.

2.4.4 Comparison of MIS 5e data to Late Holocene data and MIS 6 data to LGM data

If MIS 5e is a good analogue for the Late Holocene climate, and the LGM is similar to MIS 6, then I would expect that my MIS 5e and Late Holocene *G. tumida* $\delta^{18}\text{O}$ data would intercorrelate well, and that there would be a good correlation between *G. tumida* $\delta^{18}\text{O}$ data from the LGM and from MIS 6. These comparisons are shown in Figure 13. The data from MIS 5e and the Late Holocene (Figure 13a) correlate very well

($R^2 = 0.96$), but only because there is so little data, which makes the comparison less meaningful. The comparison between the LGM and MIS 6 has more data to depend on (Figure 13b). In this case, the correlation is poor ($R^2 = 0.33$) and the trend appears to be driven solely by the extreme data from sediment core GGC-49, which is at the location of the Northern Hemisphere thermocline ridge.

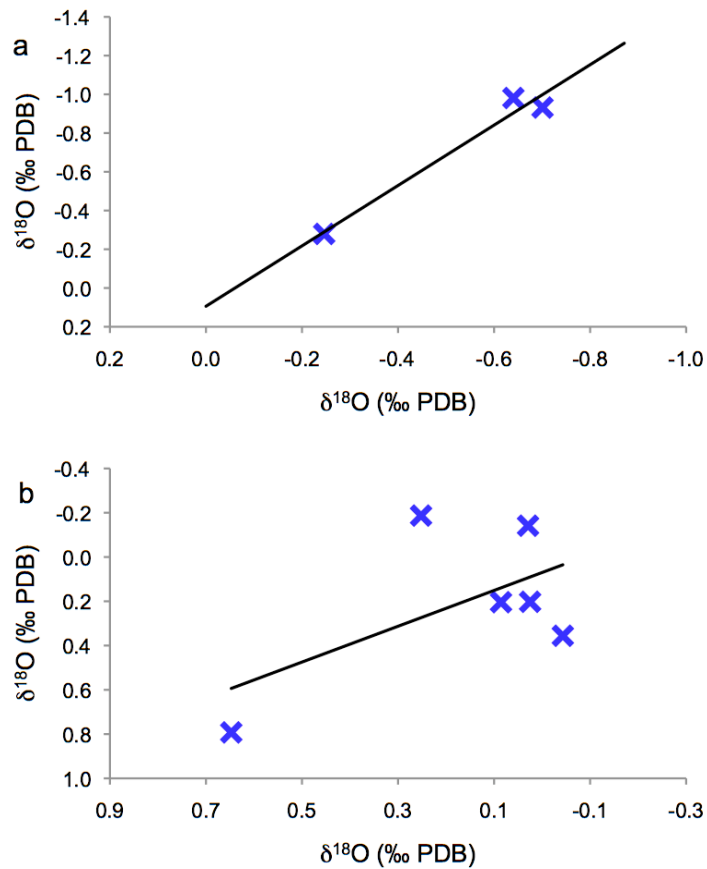


Figure 13: Comparisons between *G. tumida* average $\delta^{18}\text{O}$ values for possibly analogous time slices. Blue crosses are $\delta^{18}\text{O}$ values, black lines are linear trendlines. a) MIS 5e (x-axis) versus Holocene (y-axis). b) MIS 6 (x-axis) versus LGM (y-axis).

One reason for the mismatch between sets of glacial data is probably the uncertainty and error associated with the MIS 6 reconstruction. However, the mismatch could plausibly be caused in part by real differences between the LGM Pacific and the MIS 6 Pacific.

2.5 Conclusion

More data is needed. Although this study has been able to capture the Northern Hemisphere thermocline ridge, it has been unable to determine the profile of the Southern Hemisphere thermocline in the critical latitudes between 5°S and 10°S. Unfortunately, the high-resolution core VM28-234 which provided some of the best evidence for a Southern Hemisphere thermocline ridge during the LGM is too short to provide MIS 5e and 6 data. However, further study of cores VM28-229 and VM28-227 may yield useable $\delta^{18}\text{O}$ data which would shed light on the existence or nonexistence of a Southern Hemisphere thermocline ridge before and after the penultimate deglaciation. Additionally, data from sediment cores with higher sedimentation rates, and therefore better temporal resolution, would go a long way toward building confidence in dating of material, if they could be found in this part of the ocean.

CHAPTER 3

DISSOLUTION OF CARBONATE IN THE WESTERN TROPICAL PACIFIC DURING THE HOLOCENE AND LAST GLACIAL MAXIMUM

3.1 Introduction

In the previous two chapters, I made measurements of foraminiferal $\delta^{18}\text{O}$ values in order to reconstruct western tropical Pacific surface currents. During $\delta^{18}\text{O}$ analysis, foraminiferal $\delta^{13}\text{C}$, the masses of tests in specific size intervals, and the masses of sediment intervals before and after washing over a $63\ \mu\text{m}$ sieve are all recorded. Test mass and % sediment $> 63\ \mu\text{m}$ have both been previously used as dissolution proxies, and benthic foraminiferal $\delta^{13}\text{C}$ has been related to the corrosiveness of bottom waters. In this chapter, I use these proxies in an attempt to reconstruct the depth of the lysocline during the Late Holocene and Last Glacial Maximum, and also during the deglaciation, when several studies predict or observe a preservation maximum in sedimentary calcium carbonate. Although my data are unable to specify the lysocline depth during the Late Holocene or Last Glacial Maximum, several of my sediment cores show a preservation maximum during the last deglaciation.

3.1.1 Carbon partitioning between the atmosphere, ocean, and sediment

Part of the key to understanding the climatic consequences of ongoing anthropogenic atmospheric CO_2 production is understanding the fate of that CO_2 . On orbital timescales, atmospheric CO_2 is controlled by oceanic, and ultimately sedimentary processes (Broecker and Peng, 1987). On shorter timescales, increased atmospheric CO_2 concentrations are already having an effect on the ocean carbonate system (Doney et al.,

2009; Feely et al., 2004), and it is likely that the excess carbon being produced by humans will continue to be apparent in the atmosphere-ocean system on much longer timescales than are usually considered (Archer, 2005). Although shallow water deposition of calcium carbonate plays a role in the ocean's uptake of atmospheric carbon, deep ocean sediment is also a major sink of calcium carbonate in the ocean (Milliman, 1993). Therefore, we need to understand the mechanisms which effect carbonate concentrations in the deep ocean, including dissolution and preservation of biogenic calcium carbonate in the sediment. Although great progress has been made on this front in the last fifty years, questions remain (Broecker, 2009).

The solubility of calcium carbonate in seawater increases with increasing pressure (Hawley and Pytkowicz, 1969), meaning that, while the surface ocean is saturated or oversaturated, seawater at the ocean floor can be undersaturated. Near the transition to undersaturated waters, carbonate dissolution in the sediments becomes rapid, defining a level in the ocean termed the lysocline (Berger, 1970). The lysocline is distinct from the carbonate compensation depth, which is the (deeper) depth at which dissolution equals import to the sediment, or the depth of zero calcite accumulation (Berger et al., 1982). Although dissolution above the lysocline occurs (Milliman et al., 1999), it appears to be less important.

Although there are several factors which determine the spatial distribution of sediment calcite dissolution (Dunne et al., 2012), the depth of the lysocline is controlled largely by relative carbonate saturation in seawater overlying the sediment, and production of organic matter, which generates acidic (and therefore corrosive) CO₂ in porewaters as it oxidizes. The effect of respiration of organic matter in sediment is

modulated by saturation state of overlying bottom water (Hales, 2003; Jahnke et al., 1994; Jahnke and Jahnke, 2004). The depth of the modern lysocline varies between ocean basins. Over the Ontong-Java Plateau, the lysocline is at approximately 3400 m (Berger et al., 1982). In the central tropical Pacific, it is at approximately 3700 m (Farrell and Prell, 1989), as determined by % CaCO₃ in sediments.

During the LGM, atmospheric CO₂ is shunted from the atmosphere into the deep ocean by several mechanisms. Oceanic control over atmospheric carbon content via removal of biological carbon to the deep ocean and sediment was first articulated by Broecker (1982). He suggested that this biological pump was changed by variations in either ocean phosphate content or a modification of the Redfield ratio. Keir (1988) tested this hypothesis with a box model, and suggested specifically that an increase in production in the Southern Ocean could account for this movement. A box model suggests that ventilation of the deep ocean around Antarctica is decreased by increased sea ice in the Southern Ocean, which prevents gas exchange between the ocean and atmosphere (Stephens and Keeling, 2000). Results from a general circulation model suggest that ventilation of the deep ocean is reduced as part of a positive feedback, where cooler temperatures cause the westerly winds around Antarctica to move equatorward, decreasing upwelling of deepwater, decreasing CO₂ outgassing in the Southern Ocean to the atmosphere, and decreasing global temperatures (Toggweiler et al., 2006), although the response of the westerly winds to LGM boundary conditions remains ambiguous in other simulations (Rojas, 2013). Iron fertilization of the Southern Ocean is also implicated: an increase in dust loading over the Southern Ocean during the LGM causes a strengthening of the biological pump, increasing utilization of preformed nutrients, and

therefore reducing the Southern Ocean CO₂ leak (Martin, 1990; Martínez-García et al., 2009). That is, inorganic carbon in the surface ocean is utilized and exported from the surface ocean to the deep ocean, rather than exchanging with the atmosphere. This causes a decrease in the export of alkalinity from the surface ocean to deep ocean, allowing the surface ocean to absorb more CO₂.

This decrease in deep ocean alkalinity should initially cause the deep ocean to become undersaturated with respect to carbonate, causing a carbonate dissolution spike. However, as burial of calcite decreases, total ocean alkalinity should begin to increase, due to unabated riverine input of carbonate to the ocean. As whole ocean alkalinity increases, the lysocline deepens to bring the system back to steady state (that is, input of alkalinity to the ocean from the continents becomes balanced by output of alkalinity to sediment from the ocean). Although the difference in lysocline between glacial and interglacial climates may be small, preservation and dissolution spikes are expected for the deglaciation and glaciation, respectively (Boyle, 1988). Thus, calcite dissolution forms part of a positive feedback with atmospheric CO₂ concentrations over glacial cycles (Archer et al., 2000), and carbonate compensation is one of the several key mechanisms for reduction of atmospheric CO₂ during the LGM (Brovkin et al., 2007; Sigman and Boyle, 2000; Sigman et al., 2010).

Several models have attempted to recreate the effects of carbonate compensation during the last glacial. A decrease in shallow sedimentation during the LGM causes the LGM carbonate compensation depth to deepen in a medium-complexity climate model (Brovkin et al., 2012; Brovkin et al., 2007). In a model, Dunne et al., (2012) find evidence of increased Pacific calcite preservation in response to reduced preservation in

the Atlantic. However, Sigman and Boyle (2000) assume (and find) no change in LGM lysocline depth versus modern.

3.1.2 Paleo-proxies for carbonate dissolution

The reconstruction of calcite dissolution and carbonate concentrations in deep water has prompted the development of several paleoproxies: Fragmentation of *Globorotalia menardii* (Oba, 1969), later refined as the *Menardii* Fragmentation Index (MFI) (Mekik and François, 2006; Mekik et al., 2002) is based on the assumption that foraminiferal tests will fragment into smaller pieces as they dissolve. This same assumption lies behind the % 63 μm proxy, which looks at the weight percentage of a sample greater than 63 μm (Peterson and Prell, 1985). Broecker and Clark (1999) used this ratio of > 63 μm CaCO_3 to total CaCO_3 to reconstruct modern seafloor carbonate concentrations to within 5 μM , but offered caveats for the use of the proxy in reconstructing past carbonate concentrations. Notwithstanding, the % 63 μm CaCO_3 proxy has also been used to reconstruct changes in deep sea carbonate concentration over the last 8000 years (Broecker et al., 1999), and Lalicata and Lea (2011) used the % > 150 μm fraction as a proxy for dissolution. Several studies have linked elemental ratios in tests of planktonic foraminiferal tests to dissolution (Brown and Elderfield, 1996; Mekik and François, 2006). McCorkle et al. (1995) argue for a dissolution control on benthic foraminifera metal/calcium ratios. Several of these proxies intercorrelate to some degree and can be combined into a single Composite Dissolution Index (Peterson and Prell, 1985). The variation of density of foraminifera, combined with isotopic analysis, can be used to trace dissolution and diagenesis (Lohmann, 1995). Simply looking at weights of planktonic foraminifera from a given size interval has also been used to reconstruct

dissolution and preservation (Marchitto et al., 2005) (although see Broecker and Clark (2003) for a possible failure of this method).

As deep water masses age, sinking biological matter reforms into inorganic nutrients, causing the water to become more corrosive. Therefore nutrient tracers have been used to reconstruct locations of more or less corrosive bottom waters. In the west tropical Pacific, Marchitto et al. (2005) found test mass-based evidence for a preservation spike during the last deglaciation, concurrent with Zn/Ca evidence for a pulse of increased carbonate concentration. Evidence for increased preservation and dissolution at climatic transitions based on dissolution was also presented by Lafontaine et al. (1996). Matsumoto et al. (2002) found $\delta^{13}\text{C}$ evidence to suggest that the boundary between intermediate water and deep water in the Pacific was deeper during the LGM than today, and implying a circulation below 2000 m which is similar to today's, but vertically compressed. In the central tropical Pacific, Farrell and Prell (1989) showed, based on sedimentary % CaCO_3 , that changes in lysocline depth were associated with climate transitions, with preservation maxima during the late parts of glacials and preservation minima during the late parts of interglacials.

Out-of-phase preservation and dissolution in the Atlantic and Pacific over glacial cycles was described by Boyle (1988). A synthesis of data from several sources performed by Catubig et al. (1998) showed better preservation in the Pacific during the LGM, and in the Atlantic during the Holocene. This is consistent with the idea of increased preservation in the Pacific offsetting worse preservation in the north Atlantic during the LGM. Worse preservation in the north Atlantic is caused by increased density in AABW allowing the more corrosive AABW to displace NADW in the north Atlantic

(Catubig et al., 1998). This study also found (roughly) similar total calcite export to the sediment during the Holocene and LGM. The displacement of NADW by AABW in the glacial Atlantic is supported by various paleonutrient proxies in foraminiferal tests, such as Cd/Ca ratios (Boyle and Keigwin, 1985; Marchitto and Broecker, 2006), and Zn/Ca ratios (Marchitto et al., 2002). Changes in magnitude of southern source deep water, and the consequent changes to ventilation in the Southern Ocean and North Atlantic over glacial cycles probably lead to the beginning of this out of phase dissolution pattern around the mid-Pleistocene transition (Sexton and Barker, 2012).

In this chapter, I will be looking through data collected largely for the analysis of Chapter One for evidence of glacial to interglacial changes in corrosiveness of deeper waters in the western Pacific (based on $\delta^{13}\text{C}$ of benthic foraminifera) and changes in lysocline depth between the glacial and interglacial (based on depth profiles of foraminifera mass and coarse fraction between the two stages) and also for the preservation spike at the beginning of the deglaciation using time profiles of foraminifera mass and coarse fraction.

3.2 Method

All preparatory work for this chapter was performed for the analysis in Chapter 1 (Leech et al., 2013). Sediment samples were taken from dry sediment cores, and weighed. Briefly, for the % > 63 μm measurement, dry sediment intervals were weighed, soaked in deionized water over night, then manually washed over a 63 μm sieve, before being dried overnight in a 70°C oven. The dried residue was then weighed again. For the benthic $\delta^{13}\text{C}$ measurements tests of the benthic foraminifera *Cibicides wuellerstorfi* were picked from all size intervals of washed sediment, weighed individually, and analyzed for $\delta^{18}\text{O}$

and $\delta^{13}\text{C}$ on a MAT253 mass spectrometer with Delta IV carbonate device. The weights of planktonic foraminifera tests were measured routinely before the isotopic measurements taken for Chapters 1 and 2: *G. tumida* were weighed and analyzed singly, *G. ruber* were weighed and analyzed in groups of ten.

3.3 Results

3.3.1 Benthic $\delta^{13}\text{C}$

Since this analysis was performed retroactively on available data, it is limited to two dissolution indices; foraminiferal test mass (of the planktonic species *G. tumida* and *G. ruber*), and sediment % > 63 μm . There is also one nutrient tracer, which is a proxy for water mass “age”, benthic $\delta^{13}\text{C}$, collected from the species *C. wuellerstorfi*. The benthic $\delta^{13}\text{C}$ data is presented in Figure 14. Due to a scarcity of *C. wuellerstorfi* in my sediment samples, the boundary “Late Holocene” has been extended from 4 ka to 5 ka. As can be seen in the figure, there is a large overlap in $\delta^{13}\text{C}$ values, suggesting that either bioturbation has mixed together material of Holocene and LGM age, or that there is no real difference in glacial and interglacial $\delta^{13}\text{C}$ values. Plotting the $\delta^{13}\text{C}$ against $\delta^{18}\text{O}$ from the same individual tests (Figure 15) shows a clear linear relationship between the two values ($R^2 = 0.77$). Since heavier oxygen isotope values are associated with glacial-aged material, it seems that the problem is bioturbation. Rejecting LGM data from sediment core VM28-246 (which contains the three lightest LGM $\delta^{18}\text{O}$ values and one other value) and rejecting any Holocene data with a $\delta^{18}\text{O}$ heavier than 3‰ gives the average values for Holocene and LGM benthic $\delta^{13}\text{C}$ shown in Figure 16. These values are consistent with the Holocene benthic $\delta^{13}\text{C}$ values given by Matsumoto et al. (2002) and also shown in Figure 16, although the Matsumoto data set also contains some values which overlap

my LGM values. Although the number of individual Holocene data is low, it is clear that LGM $\delta^{13}\text{C}$ values were lighter than Holocene between 1700 and 3700 m depth.

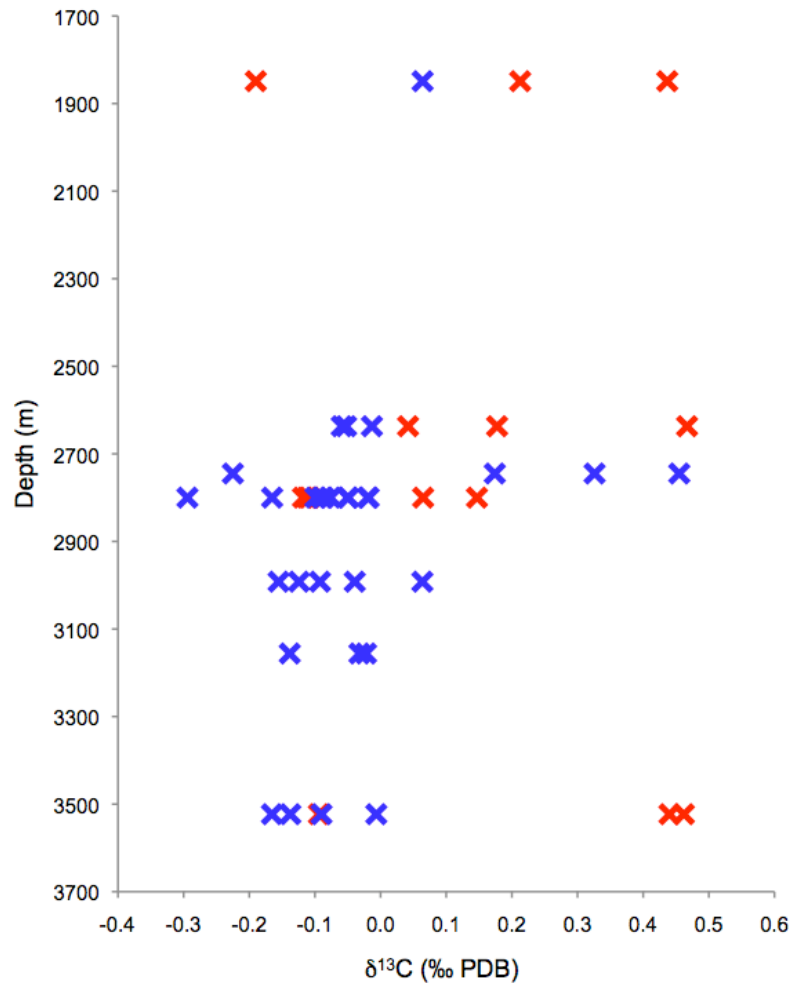


Figure 14: All individually measured $\delta^{13}\text{C}$ values for *C. wuellerstorfi* versus depth into the ocean from sediment intervals radiocarbon dated to the Late Holocene (red crosses) and LGM (blue crosses).

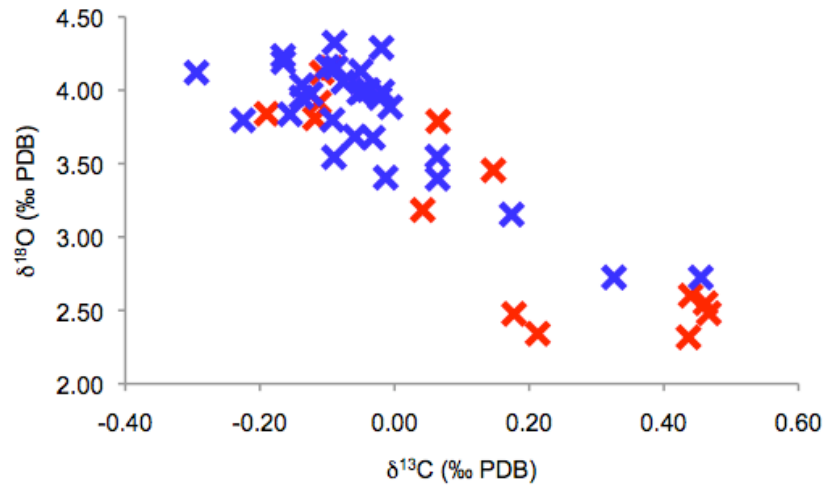


Figure 15: $\delta^{13}\text{C}$ versus $\delta^{18}\text{O}$ for all individually analyzed *C. wuellerstorfi* from sediment intervals radiocarbon dated to the Late Holocene (red crosses) and LGM (blue crosses).

3.3.2 Depth profiles and time profiles of foraminiferal mass and % > 63 μm

The point of interest in the depth profiles is the difference between data above and data below the thermocline during the LGM and Holocene. Unfortunately, there are too few *G. ruber* mass or % > 63 μm for either time period for any kind of statistical analysis.

The depth profiles for Holocene and LGM *G. tumida* test mass are shown in Figure 17.

In this case, there are enough measurements to be able to say that according to a one-tailed Student's t-test, LGM-aged *G. tumida* test masses from below 3400 m are significantly lighter than those from above 3400 m ($p = 0.01$).

The time profiles for *G. ruber* mass, *G. tumida* mass, and % > 63 μm are shown in Supplemental Figures 2-4, respectively. The *G. tumida* data and % > 63 μm in several of the cores are similar in that they appear to have a local maximum between 7 and 13 ka (Table 3). Those sediment cores which do not have this peak either have a plateau at the core top of values which are high relative to the rest of the core, or are missing data from

this time period. The *G. ruber* test masses also, in several cases, have higher values around 10ka. However, for most of the sediment cores, there is large scatter in the data, and more variability in the age of the local maximum.

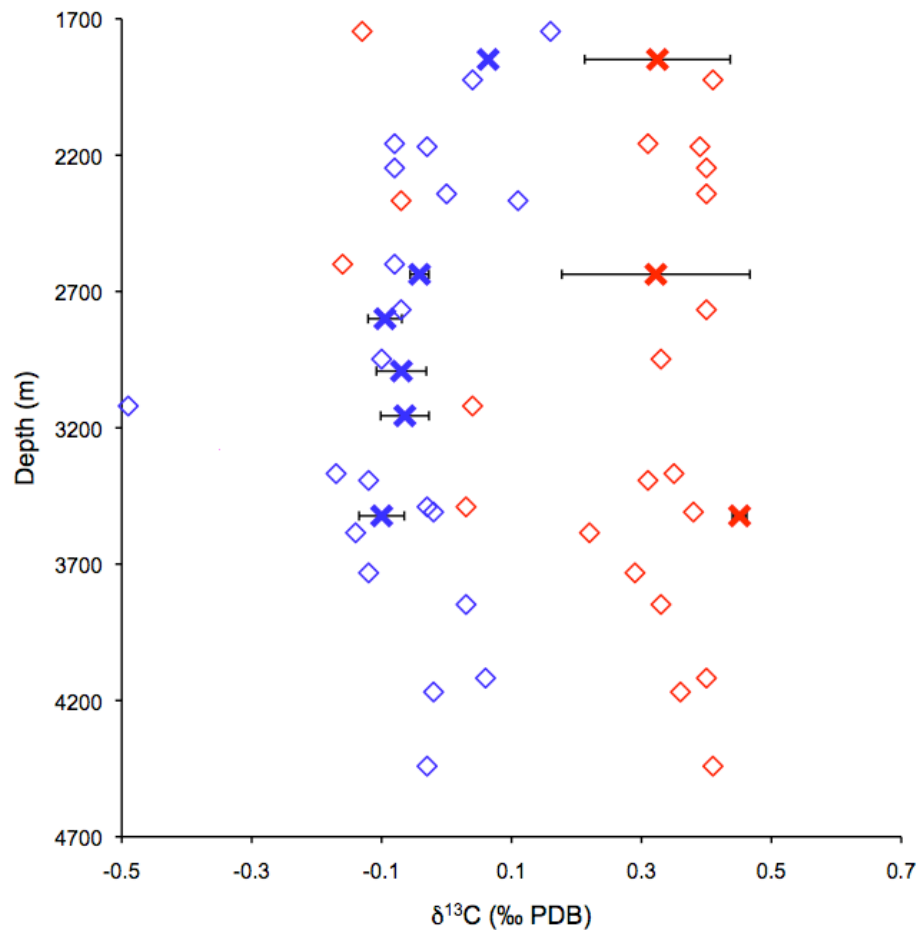


Figure 16: Average *C. wuellerstorfi* $\delta^{13}\text{C}$ values from the Late Holocene (red crosses) and LGM (blue crosses), after removal (as described in the text) of probable erroneous data caused by sediment mixing, compared to Holocene (red diamonds) and glacial (blue diamonds) benthic foraminifera $\delta^{13}\text{C}$ from Matsumoto et al. (2002). Matsumoto data limited to that from between 20°N to 20°S and 130°E to 170°E. Error bars are the standard error of the mean.

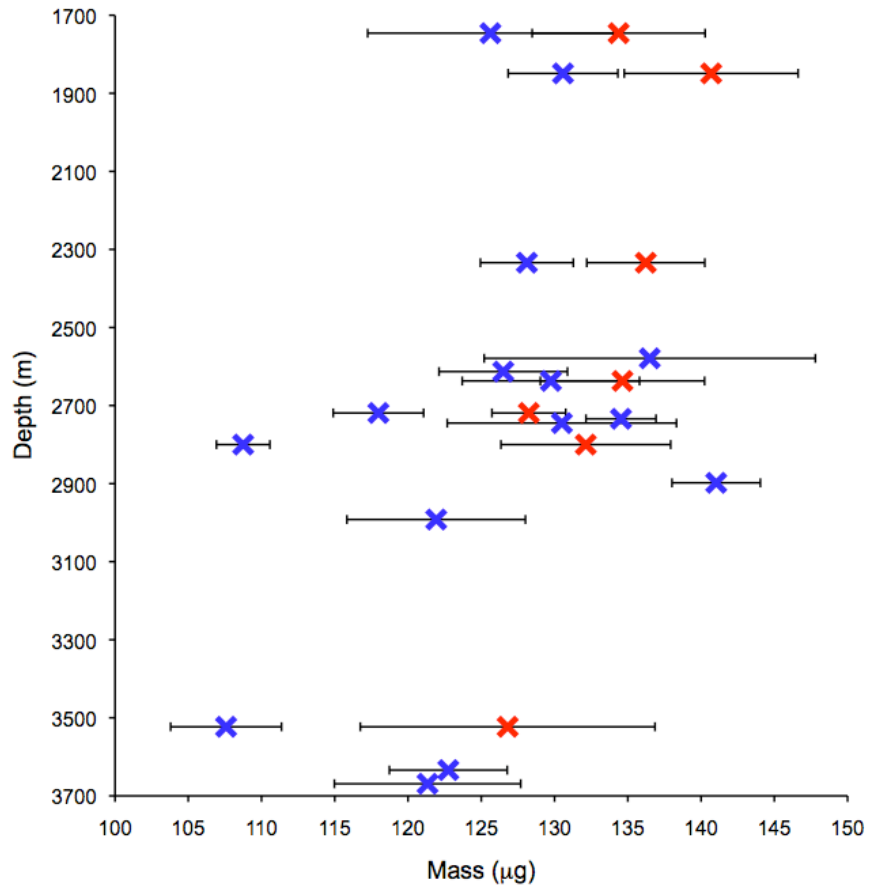


Figure 17: Average masses of *G. tumida* tests. *G. tumida* tests weighed individually, then averaged together from all Holocene (red crosses) and all LGM (blue crosses) sediment intervals from each core. Error bars are the standard error of the mean.

Table 3: Age of sediment interval in each core yielding a maximum value near to 10 ka for *G. tumida* test mass and coarse fraction.

| Core | Depth (m) | Age of <i>G. tumida</i> mass maximum (ka) | Age of % > 63 μm maximum (ka) |
|----------|-----------|---|--|
| VM28-235 | 1746 | 9.9 | 9.9 |
| VM24-150 | 1849 | - | 7.0 |
| VM28-233 | 2334 | 11.2 | - |
| VM34-2 | 2579 | 12.5 | - |
| VM24-110 | 2613 | 8.0 | 8.0 |
| VM28-236 | 2637 | 10.9 | 10.9 |
| VM28-234 | 2719 | - | - |
| RC12-117 | 2734 | - | - |
| VM28-246 | 2745 | - | - |
| GGC-49 | 2800 | 4.9 | - |
| VM28-213 | 2898 | - | - |
| VM28-230 | 2992 | 9.8 | 13.1 |
| RC17-176 | 3156 | - | 10.0 |
| VM19-110 | 3523 | 7.0 | - |
| VM28-227 | 3634 | - | 12.4 |
| VM28-229 | 3669 | 7.0 | 7.1 |

3.4 Discussion

Given the mechanisms for moving CO₂ in and out of the deep ocean, I expected to see a pulse of enhanced preservation during the deglaciation, possibly some difference between the glacial lysocline depth and Holocene lysocline depth, and a change in the $\delta^{13}\text{C}$ values of benthic foraminifera between the LGM and Holocene as the partitioning of old, corrosive AABW between the Pacific and Atlantic changed.

3.4.1 Differences between the Holocene and LGM

Although there is a clear difference between LGM and Holocene benthic $\delta^{13}\text{C}$ values (Figure 14), the large error and low number of data for the Holocene values means that it is difficult to give a value to the offset between the two sets of data. Lighter $\delta^{13}\text{C}$ values are expected for the LGM data, due to a whole Pacific ocean $\delta^{13}\text{C}$ change of 0.3‰

caused by changes in terrestrial carbon storage (Curry et al., 1988), and this data is certainly consistent with that change. Unfortunately, it is impossible to quantify any additional change in this data set which might be caused by changes in deep water flow. Specifically, it is impossible to determine if there is any change in the boundary between shallower and deeper water masses, so any change in my Pacific values for benthic $\delta^{13}\text{C}$ can be attributed to either an increased intrusion of AABW which has a decreased $\delta^{13}\text{C}$ due to its age, or to an overall change $\delta^{13}\text{C}$ in the Pacific.

Of the dissolution indexes for the LGM and Holocene, only the LGM *G. tumida* test mass set of data was large enough to analyze. The tests from beneath 3400 m are significantly lighter than those from above 3400 m, indicating that the lysocline sits somewhere between these two populations. However, there is a gap in the data between 2992 m and 3523 m, meaning that a shoaling of the lysocline during the LGM of even several hundred meters would not be detectable by this data.

3.4.2 Preservation during the deglacial

Given the mechanisms for moving CO_2 in and out of the deep ocean, I expected to see a pulse of enhanced preservation during the deglaciation. Although *G. ruber* mass data are difficult to interpret, there is a definite increase in average mass for *G. tumida* tests and in coarse fraction values during the last deglaciation, between 7 and 13 ka (Table 3). This is indicative of the predicted preservation spike, discussed above. Decreased fragmentation of calcite tests, and decreased mass loss of *G. tumida* tests is consistent with a movement of CO_2 out of the deep ocean via a slow down of the biological soft tissue pump and increased ventilation of the deep ocean associated with the climate transition from glacial to interglacial. The lack of pattern in the *G. ruber* data may be to

do with the fragility of that species. The decrease in dissolution which the *G. tumida* and coarse fraction data indicate may not be enough to prevent fragmentation of *G. ruber* tests. That is, since *G. ruber* are the more fragile species, they should be the last species to show evidence of preservation. Additionally, the low sedimentation rates in this part of the ocean mean that *G. ruber* tests which did not fragment during the preservation event remain in the mixed layer of sediment and fragment after the event passes.

3.5 Conclusion

Significant gaps in this data set mean that I have been unable to make any real inferences about changes in the lysocline or deep water flow between the Holocene and LGM. *G. tumida* test mass data suggests that the lysocline was constrained between 3000 and 3500 m during the LGM. This is a large depth range, and one which the lysocline currently occupies in the western tropical Pacific. Benthic $\delta^{13}\text{C}$ from the Holocene and LGM are consistent with a Pacific-wide 0.3‰ change during the LGM, and the Holocene data are also largely consistent with that of Matsumoto et al. (2002), although the large error on my Holocene data make it impossible to say anything about changes in deep Pacific $\delta^{13}\text{C}$ values beyond that.

The dissolution indexes *G. tumida* test mass and % > 63 μm both indicate a temporary increase in preservation in the tropical Pacific between 7 and 13 ka. This preservation spike is predicted by theories which suggest that during the glacial-interglacial cycle, CO_2 moves into and out of the deep ocean, and that glacial-interglacial changes in atmospheric CO_2 are modulated by carbonate compensation.

APPENDIX A

SUPPLEMENTAL TABLES AND FIGURES

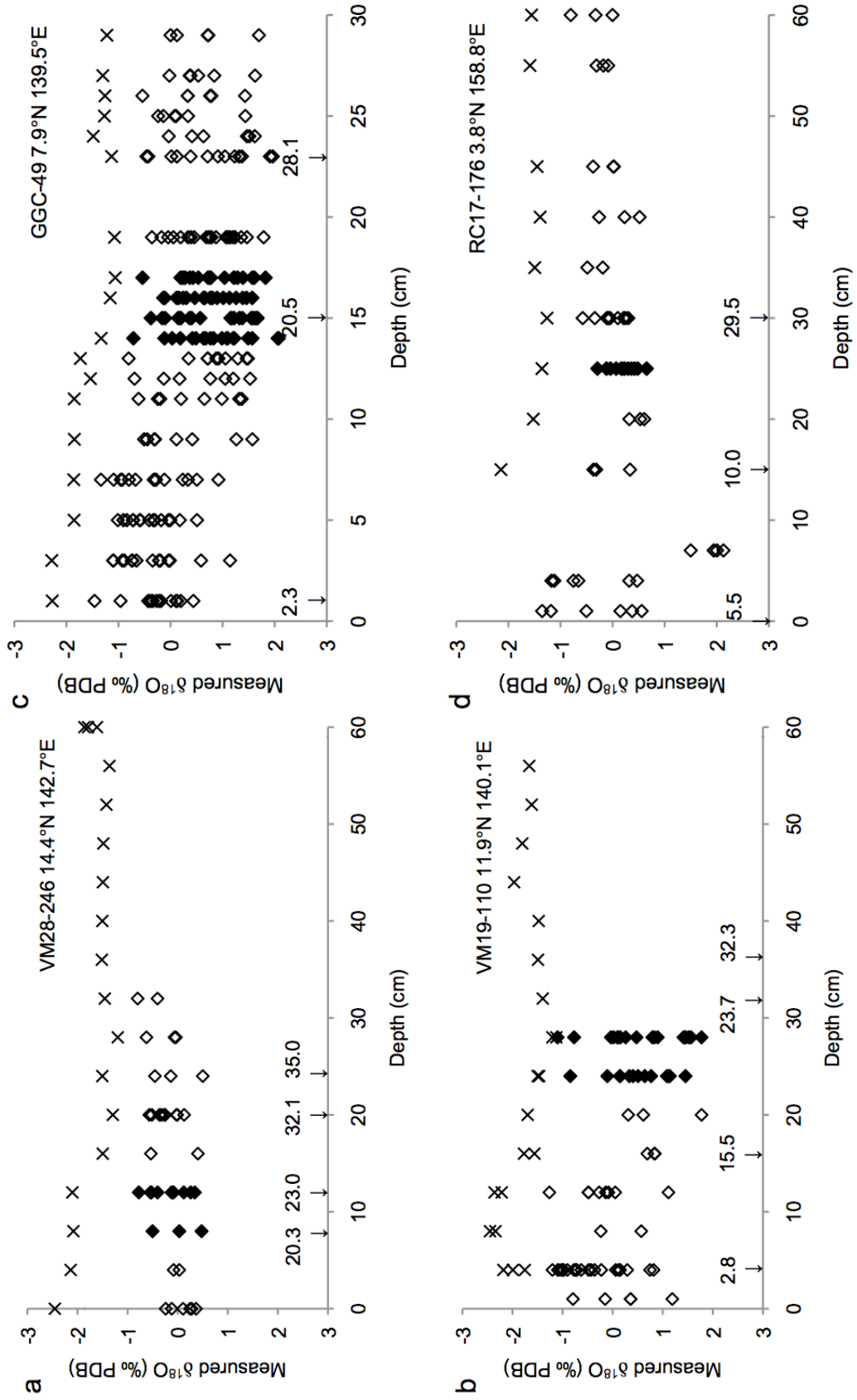
Supplemental Table 1: Statistical data for *G. tumida* $\delta^{18}\text{O}$ data from Late Holocene-dated intervals.

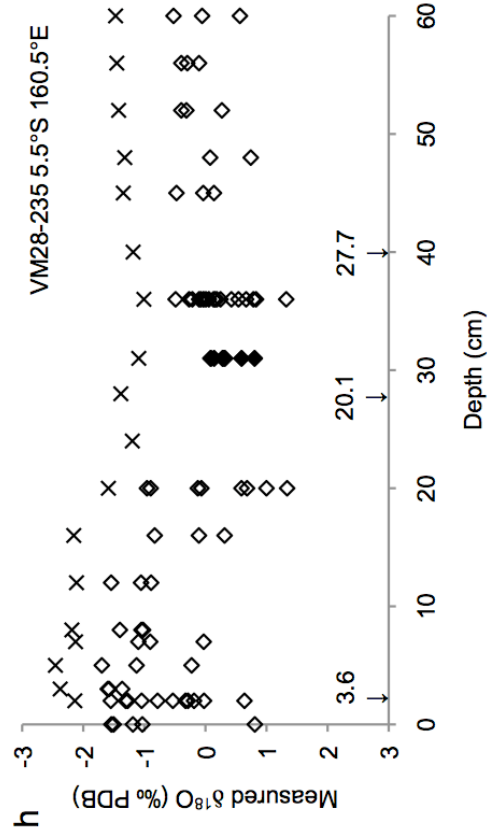
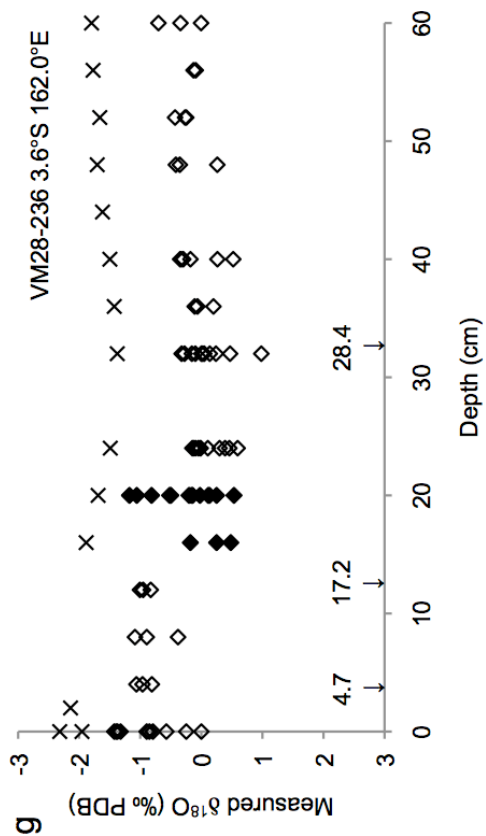
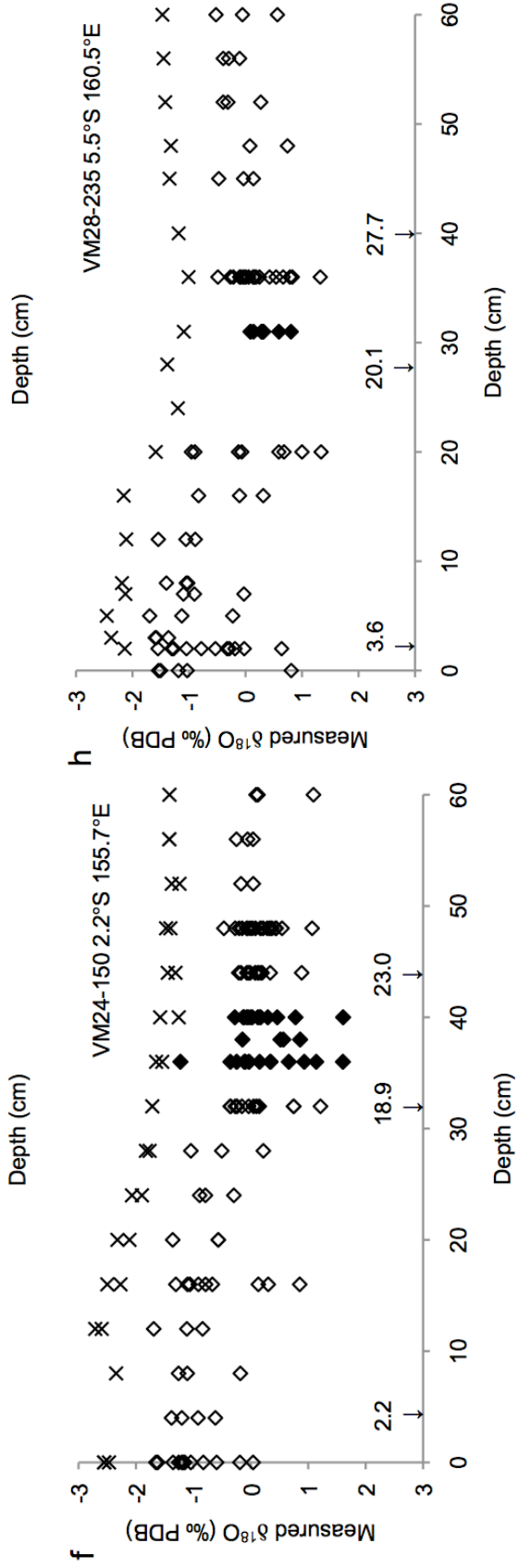
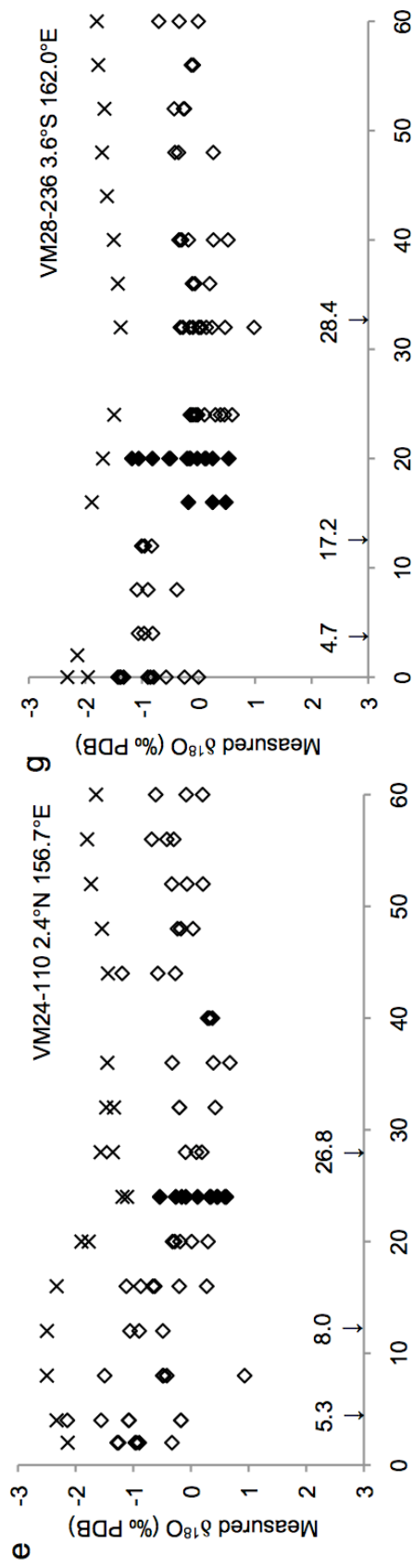
| Core | Latitude | Minimum | First Quartile | Median | Third Quartile | Maximum | Skewness |
|----------|----------|---------|----------------|--------|----------------|---------|----------|
| VM19-110 | 11.9 | -1.2 | -0.79 | -0.43 | 0.15 | 1.19 | 0.6 |
| GGC-49 | 7.9 | -2.22 | -1.12 | -0.42 | -0.24 | 0.13 | -0.98 |
| VM24-150 | -2.2 | -1.65 | -1.26 | -1.18 | -0.62 | 0.04 | 0.84 |
| VM28-236 | -3.6 | -1.43 | -1.38 | -1.19 | -0.82 | 0 | 1.11 |
| VM28-235 | -5.5 | -1.55 | -1.28 | -0.76 | -0.26 | 0.81 | 0.65 |
| VM28-233 | -6.3 | -1.5 | -1.18 | -0.99 | -0.85 | -0.55 | 0.06 |
| VM28-234 | -7.1 | -2.22 | -1.29 | -1.04 | -0.86 | -0.22 | -0.56 |

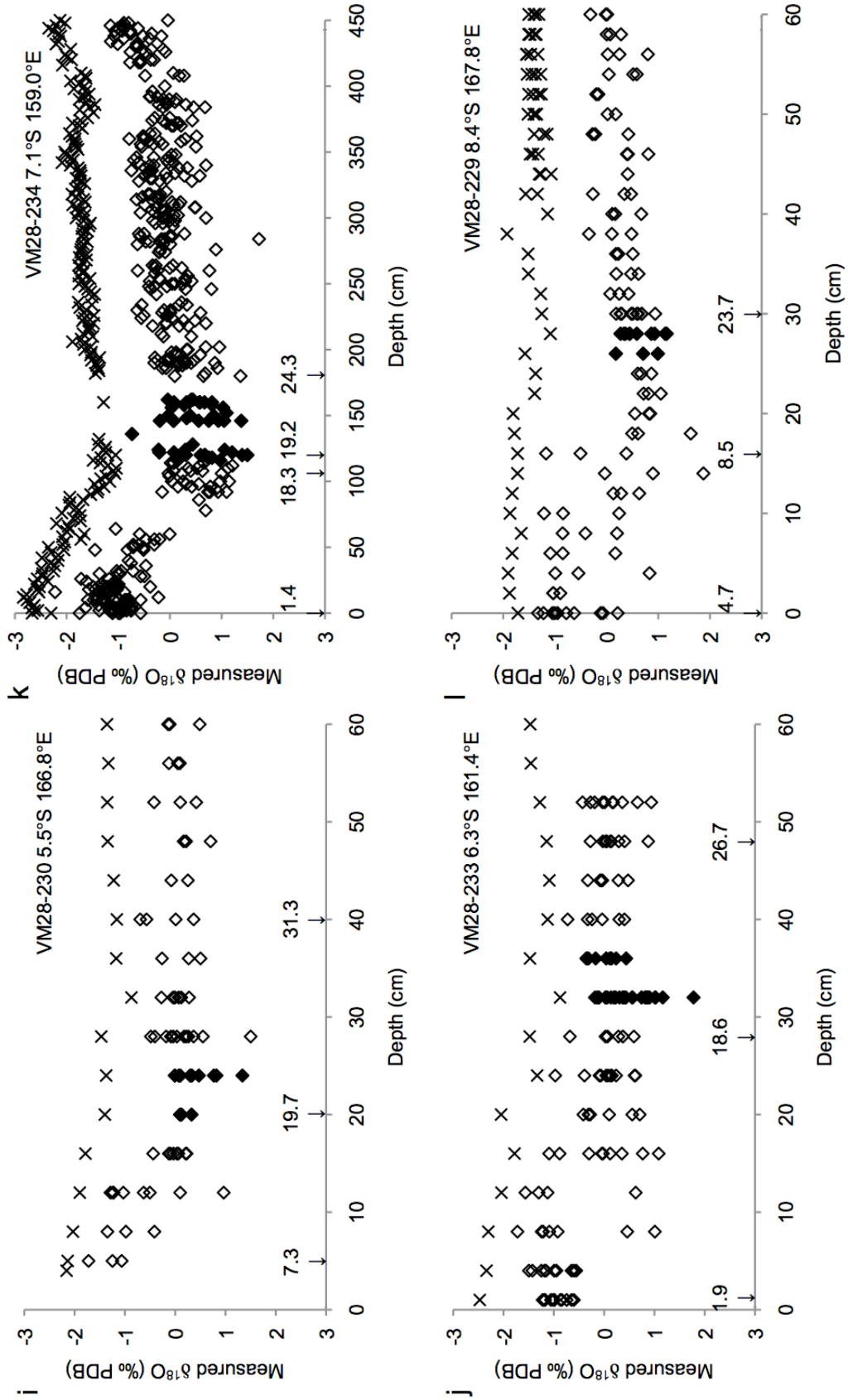
Supplemental Table 2: Statistical data for *G. tumida* $\delta^{18}\text{O}$ data from LGM-dated intervals.

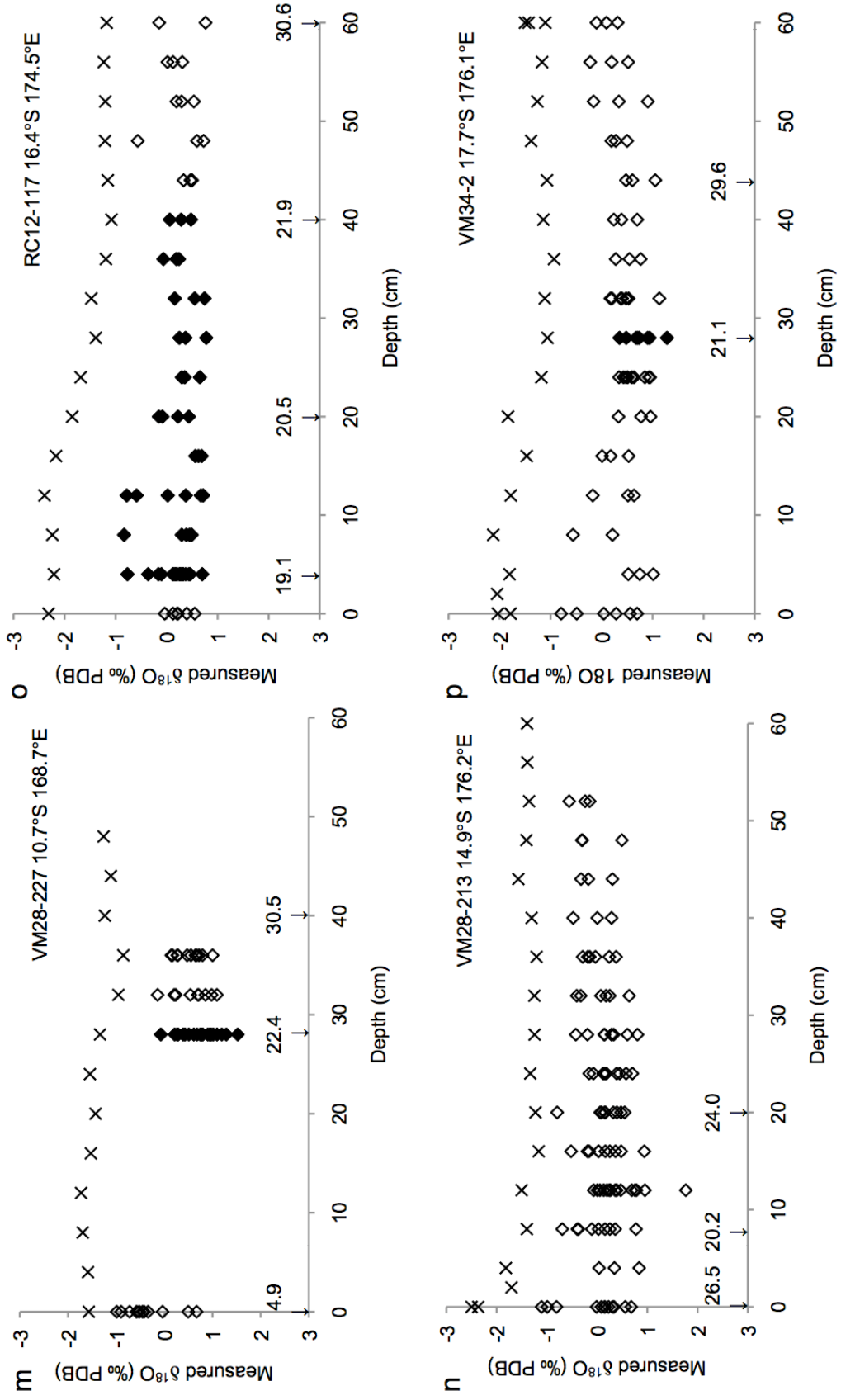
| Core | Latitude | Minimum | First Quartile | Median | Third Quartile | Maximum | Skewness |
|----------|----------|---------|----------------|--------|----------------|---------|----------|
| VM28-246 | 14.4 | -0.78 | -0.5 | -0.12 | 0.12 | 0.48 | -0.01 |
| VM19-110 | 11.9 | -1.1 | 0.13 | 0.51 | 1.13 | 1.77 | -0.38 |
| GGC-49 | 7.9 | -0.71 | 0.28 | 0.77 | 1.27 | 2.08 | -0.1 |
| VM24-110 | 2.4 | -0.54 | -0.11 | 0.34 | 0.49 | 0.61 | -0.7 |
| VM24-150 | -2.2 | -1.23 | -0.12 | 0.03 | 0.49 | 1.61 | 0.61 |
| VM28-236 | -3.6 | -1.18 | -0.5 | -0.16 | 0.13 | 0.53 | -0.61 |
| VM28-235 | -5.5 | 0.08 | 0.13 | 0.29 | 0.39 | 0.81 | 1.12 |
| VM28-230 | -5.5 | -0.01 | 0.09 | 0.3 | 0.47 | 1.34 | 1.42 |
| VM28-233 | -6.3 | -0.35 | 0.05 | 0.24 | 0.65 | 1.78 | 0.81 |
| VM28-234 | -7.1 | -0.73 | 0.18 | 0.56 | 0.82 | 1.5 | -0.14 |
| VM28-229 | -8.4 | 0.18 | 0.36 | 0.58 | 0.93 | 1.16 | 0.25 |
| VM28-227 | -10.7 | -0.07 | 0.42 | 0.76 | 0.98 | 1.52 | -0.03 |
| RC12-117 | -14.9 | -0.83 | 0.13 | 0.29 | 0.46 | 0.78 | -1.2 |
| VM34-2 | -17.7 | 0.35 | 0.63 | 0.72 | 0.91 | 1.28 | 0.49 |

Supplemental Figure 1 (following pages): *G. ruber* $\delta^{18}\text{O}$ (crosses) and individual *G. tumida* $\delta^{18}\text{O}$ (diamonds) versus depth into sediment of all sediment cores used in this study. Numbers with arrows represent radiocarbon dates converted to calendar age (ka) at given depth. Radiocarbon dates corrected as described in text. (a) VM28-246, 14.4°N 142.7°E (b) VM19-110, 11.9°N 140.1°E (c) GGC-49, 7.9°N 139.5°E (d) RC17-176, 3.8°N 158.8°E (e) VM24-110, 2.4°N 156.7°E (f) VM24-150, 2.2°S 155.7°E (g) VM28-236, 3.6°S 162.0°E (h) VM28-235, 5.5°S 160.5°E (i) VM28-230, 5.5°S 166.8°E (j) VM28-233, 6.3°S 161.4°E (k) VM28-234, 7.1°S 159°E (l) VM28-229, 8.4°S 167.8°E (m) VM28-227, 10.7° S 168.7° E (n) VM28-213, 14.9°S 176.2°E (o) RC12-117, 16.4°S 174.5°E (p) VM34-2, 17.7°S 176.1°E.

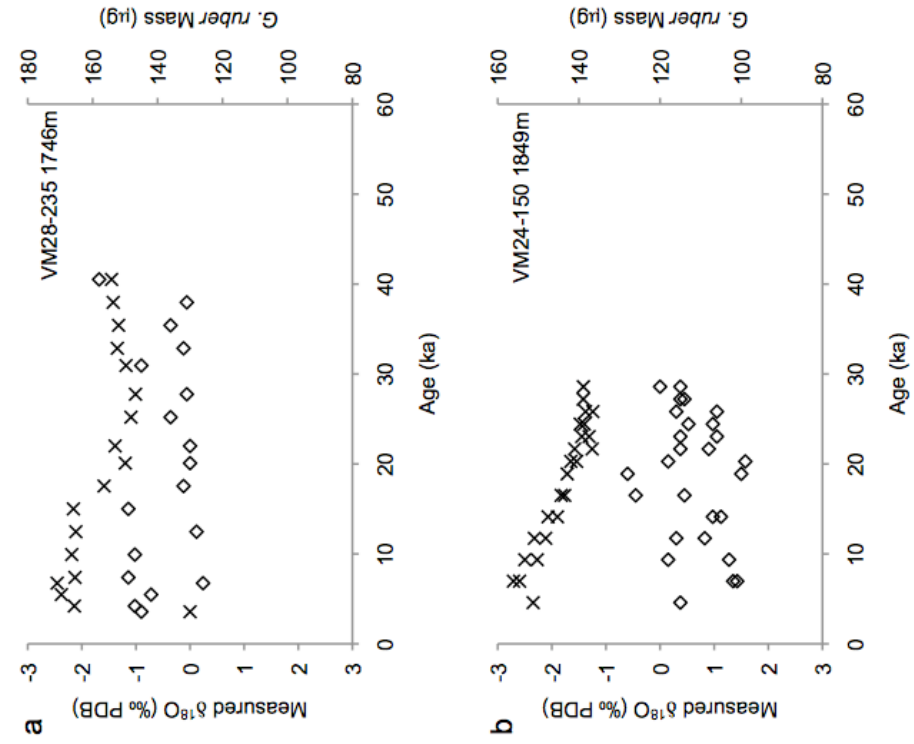


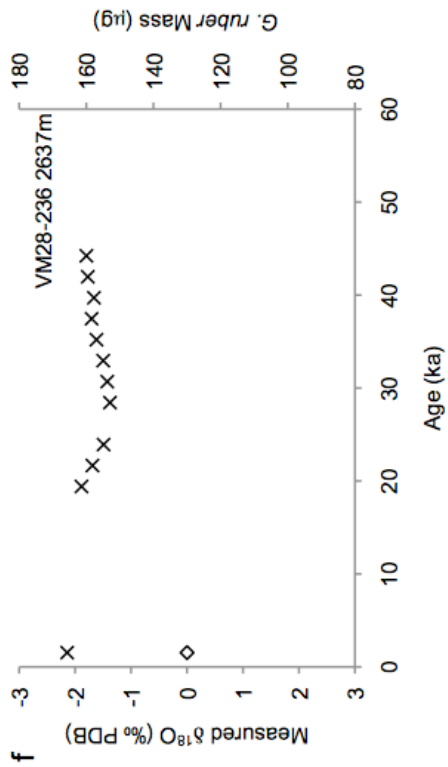
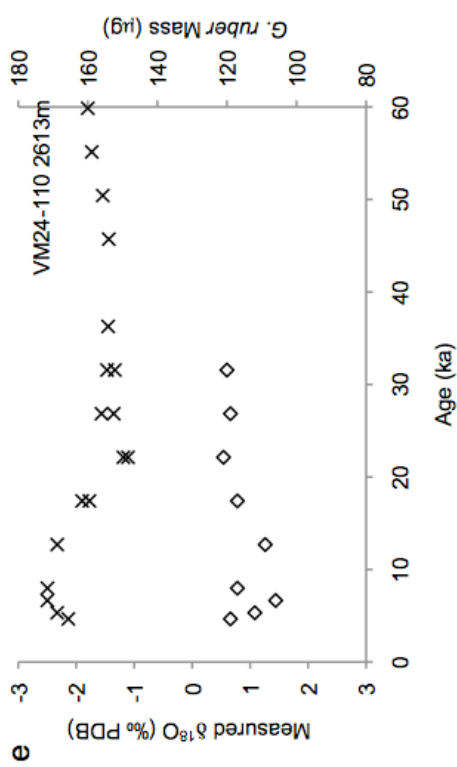
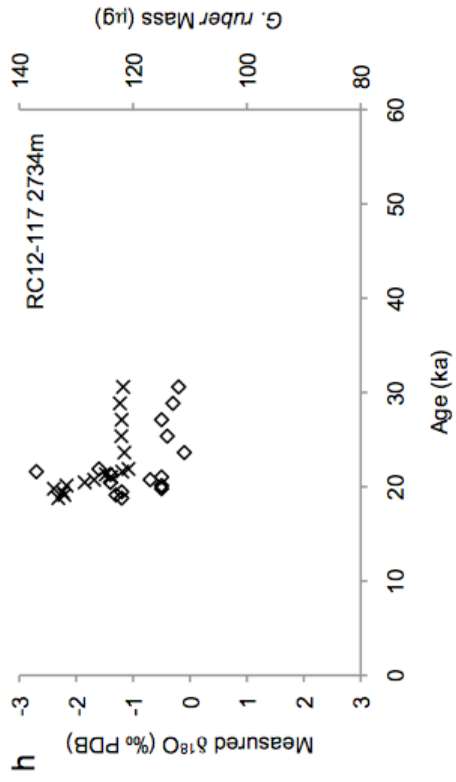
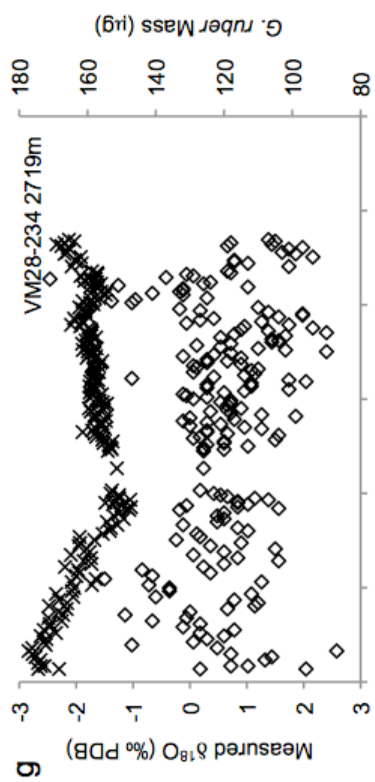


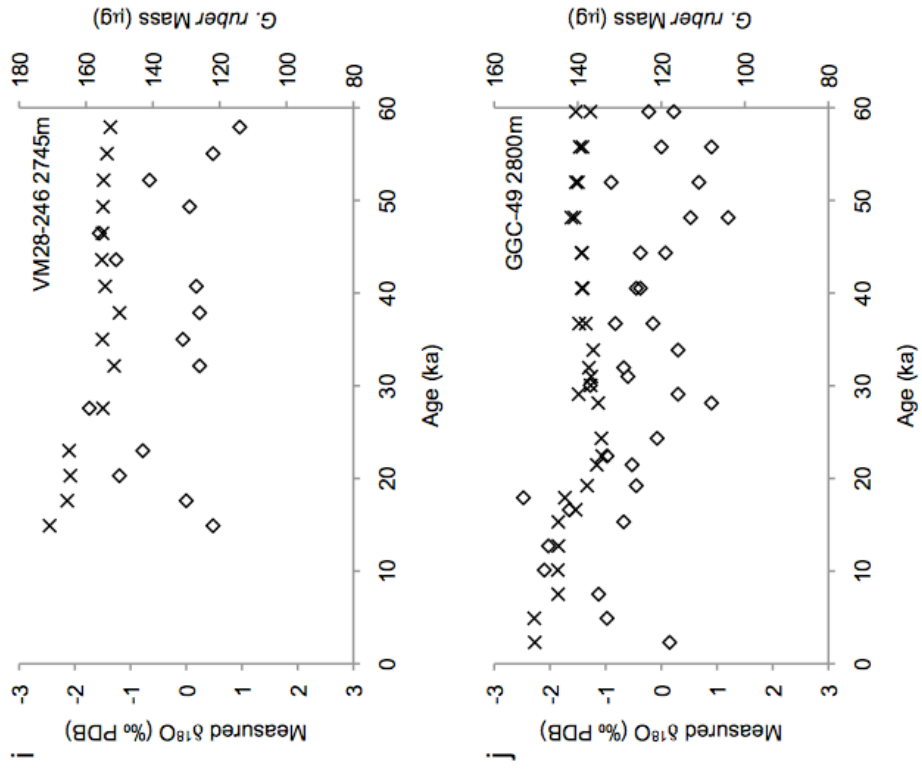
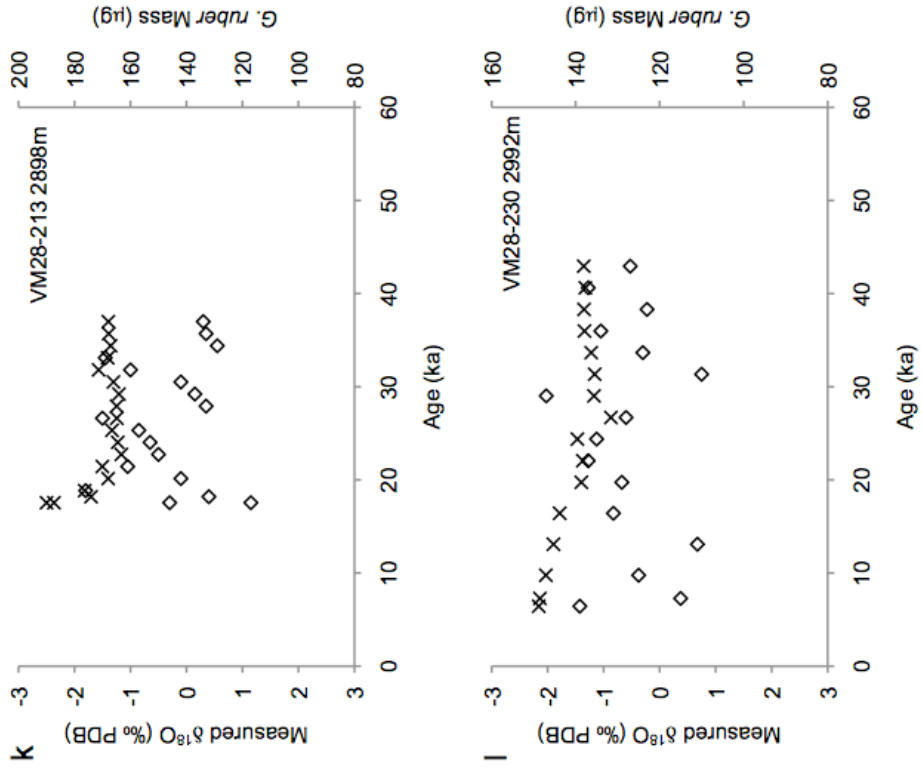


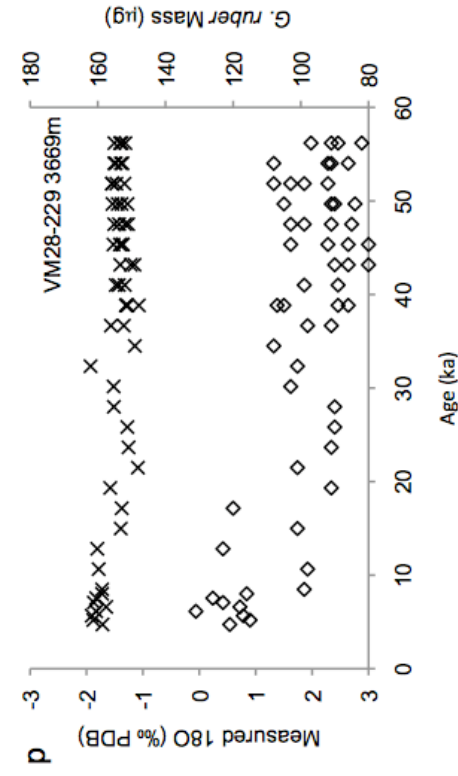
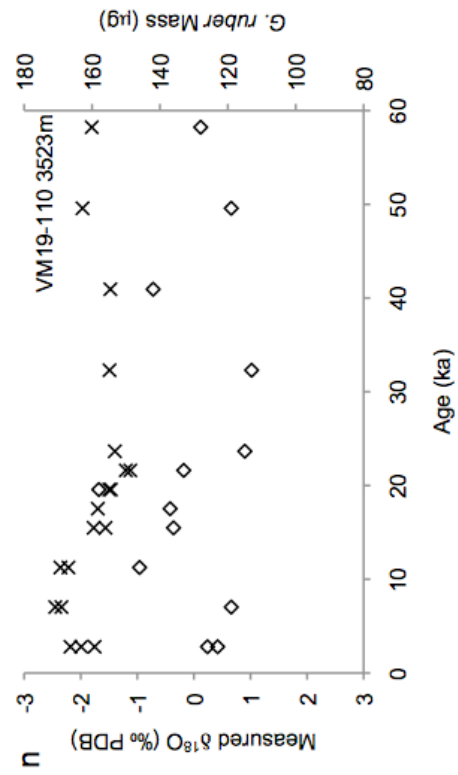
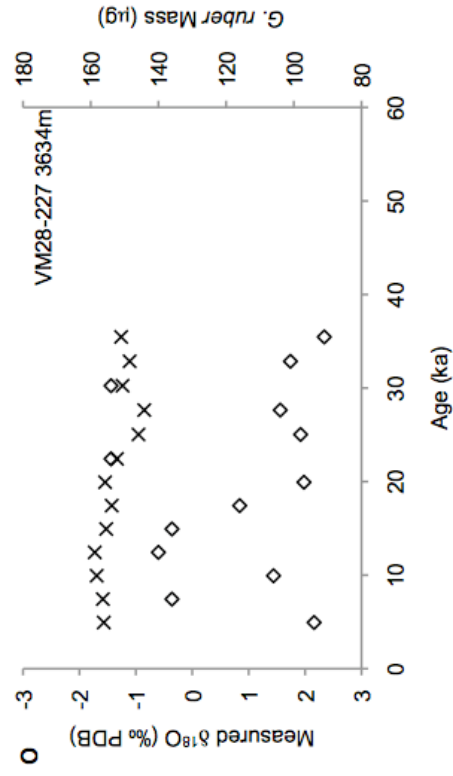
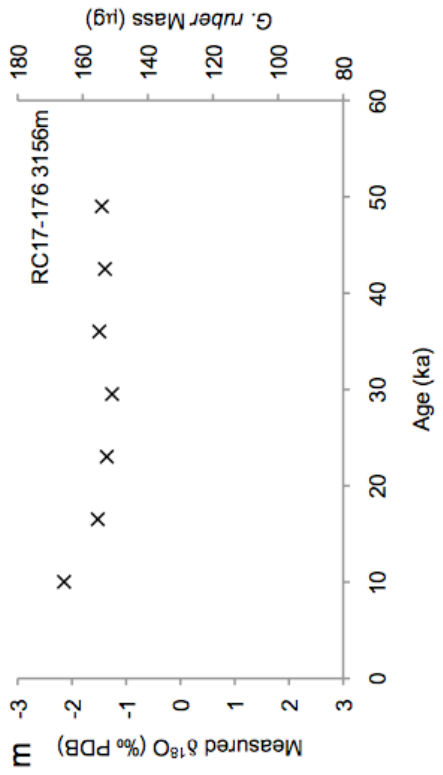


Supplemental Figure 2 (following pages): *G. ruber* $\delta^{18}\text{O}$ (crosses) and masses of *G. ruber* weighed in groups of ten from the 250-355 μm size interval (open crosses) from different sediment cores. The age model used here is a linear extrapolation between the *G. tumida* radiocarbon dates shown in Supplemental Figure 1, and *G. ruber* $\delta^{18}\text{O}$ data are generated as discussed in chapter one. (a) VM28-235, 1746 m (b) VM24-150, 1849 m (c) VM28-233, 2334 m (d) VM34-2, 2579 m (e) VM24-110, 2613 m (f) VM28-236, 2637 m (g) VM28-234, 2719 m (h) RC12-117, 2734 m (i) VM28-246, 2745 m (j) GGC-49, 2800 m (k) VM28-213, 2898 m (l) VM28-230, 2992 m (m) RC17-176, 3156 m (n) VM19-110, 3523 m (o) VM28-227, 3634 m (p) VM28-229, 3669 m.

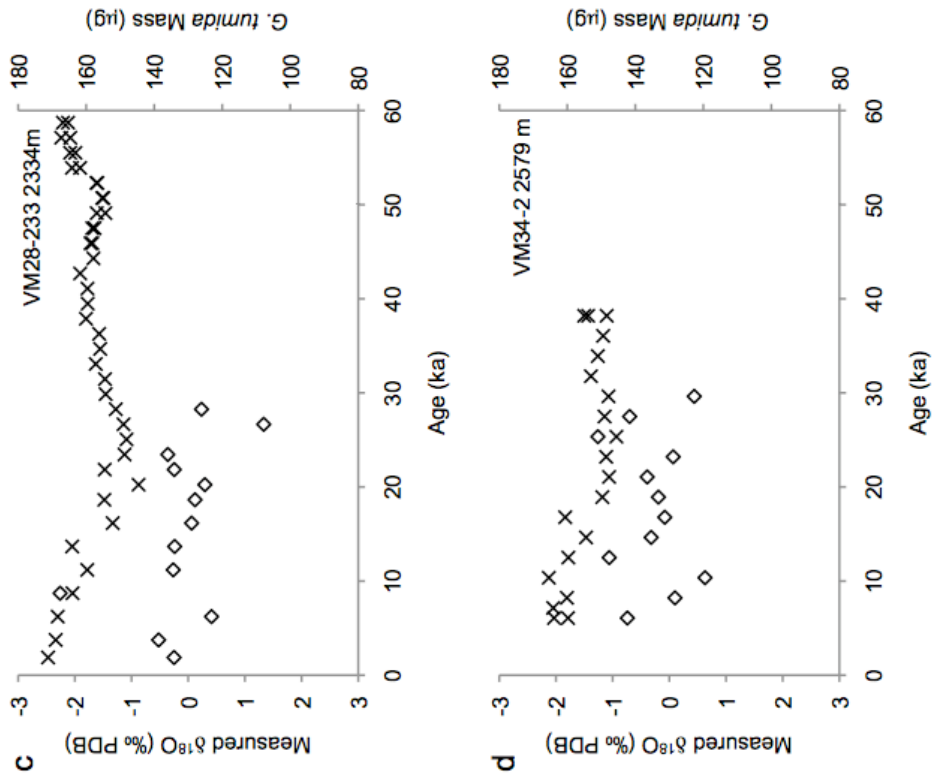


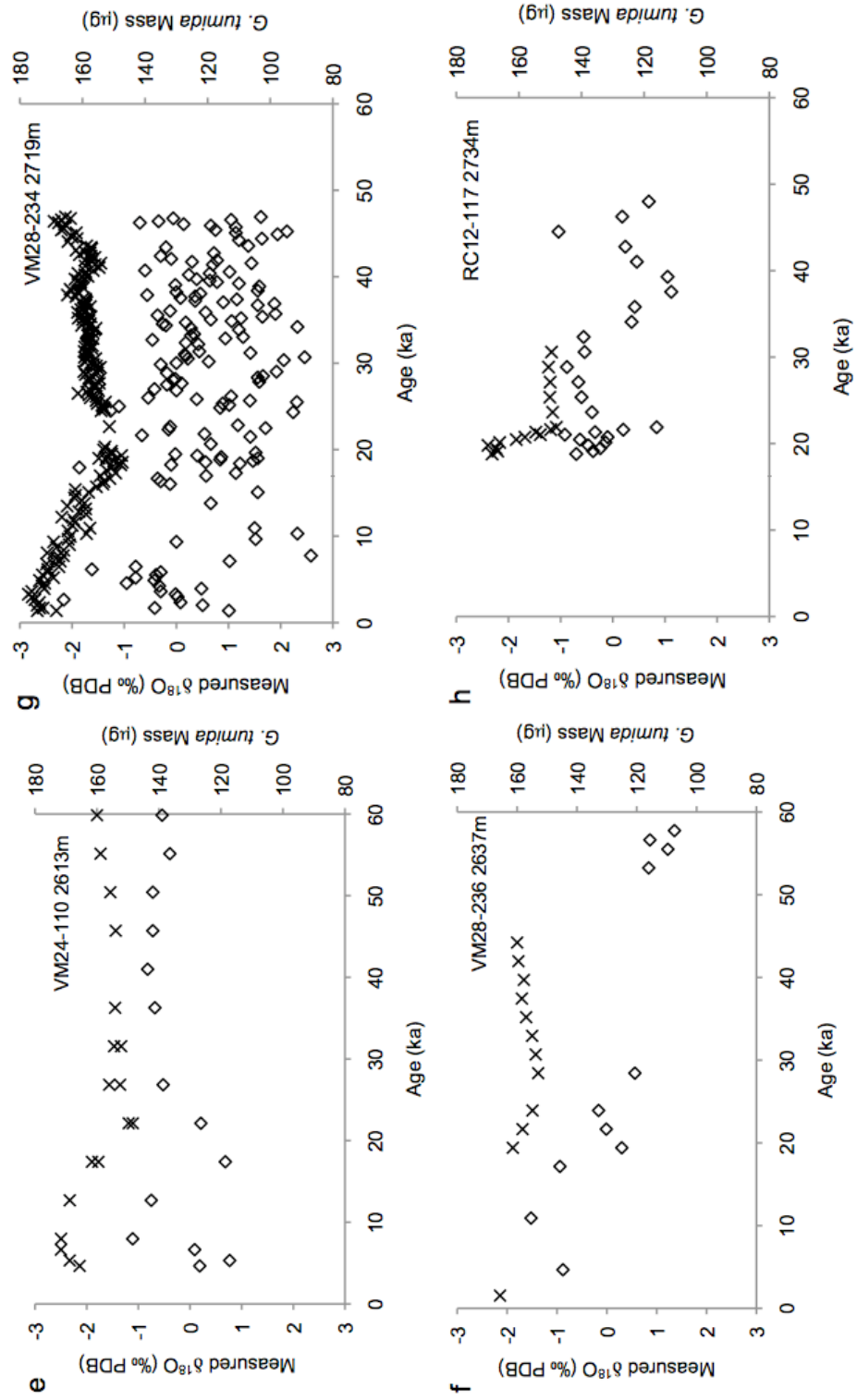


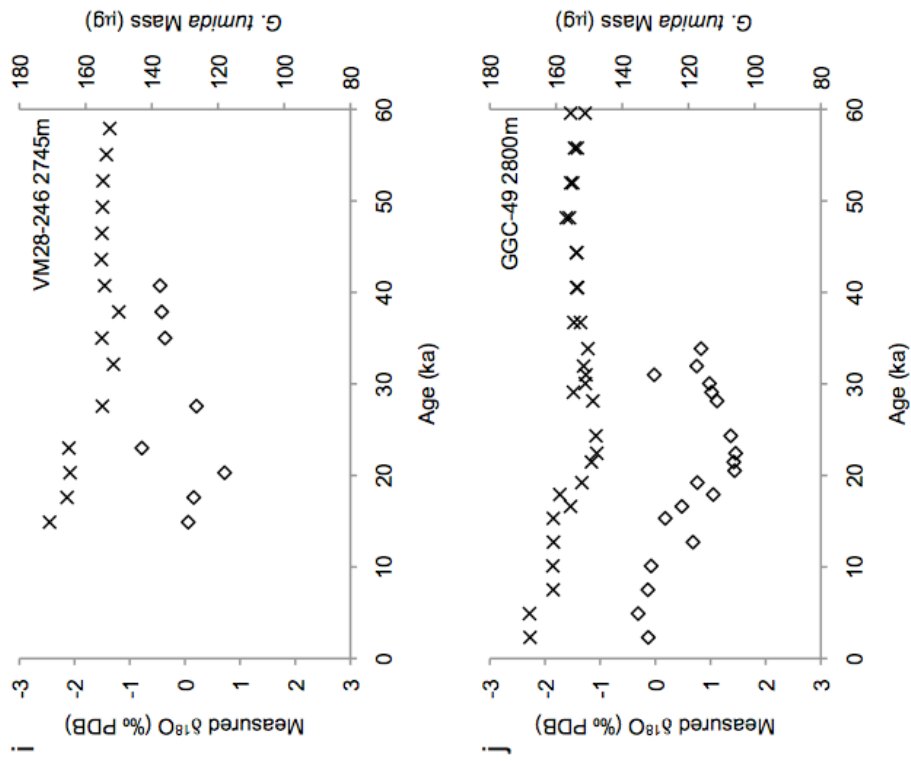
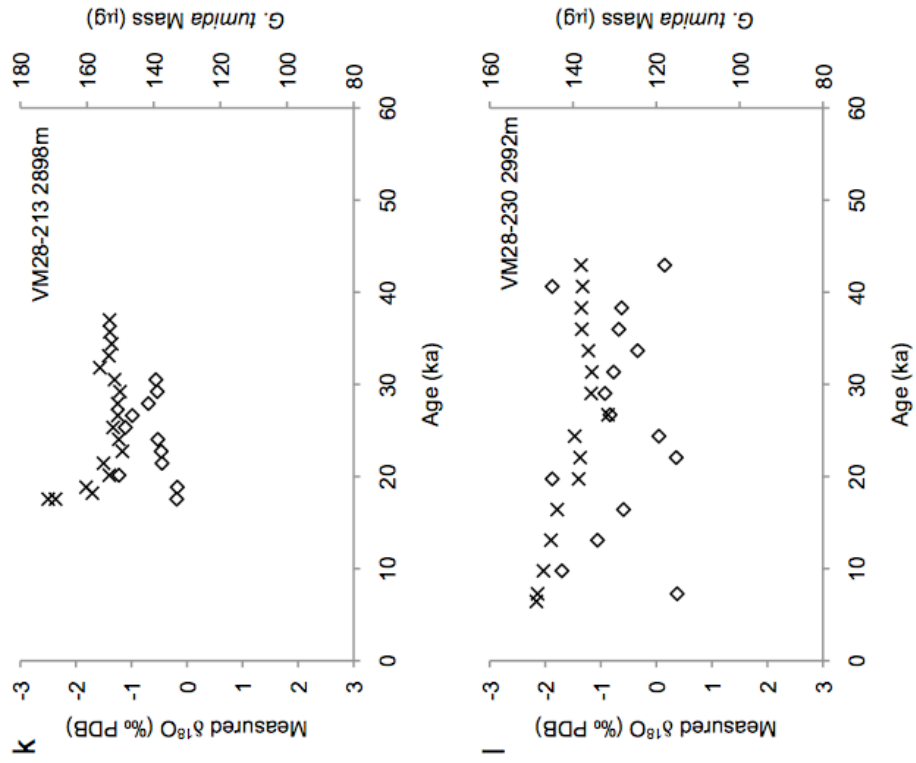


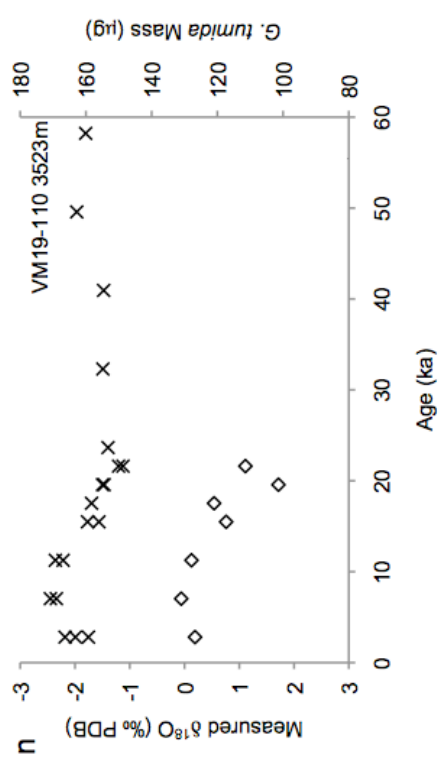
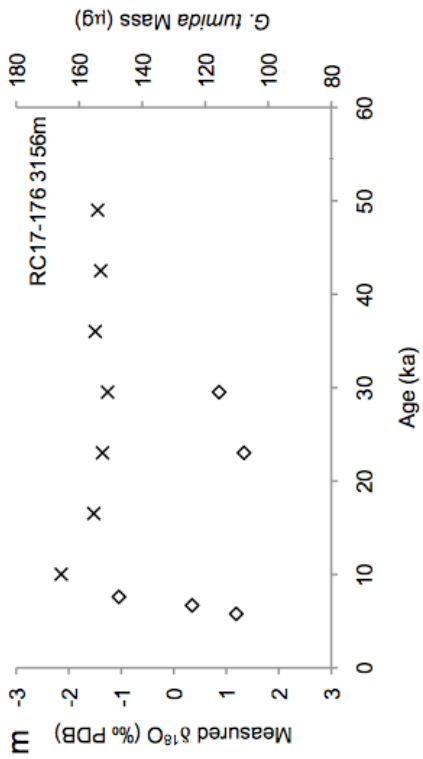
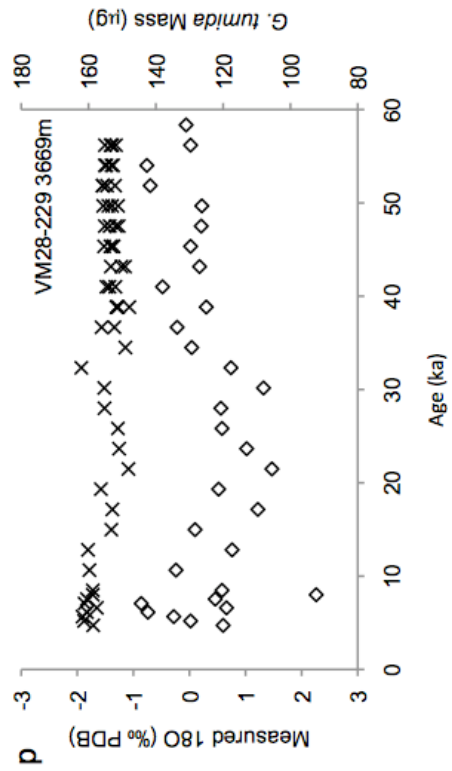
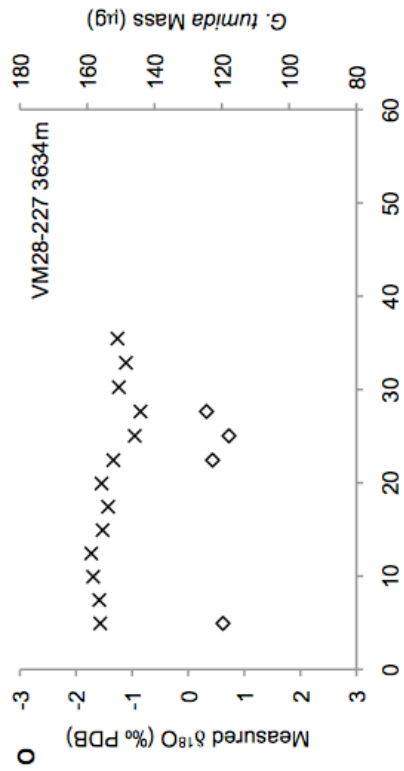


Supplemental Figure 3 (following pages): *G. ruber* $\delta^{18}\text{O}$ (crosses) and masses of *G. tumida* tests (open diamonds). The tests are weighed individually from the 425-500 μm size interval and the values from each sediment interval are averaged together. Ages and $\delta^{18}\text{O}$ as described in Supplemental Figure 2. (a) VM28-235, 1746 m (b) VM24-150, 1849 m (c) VM28-233, 2334 m (d) VM34-2, 2579 m (e) VM24-110, 2613 m (f) VM28-236, 2637 m (g) VM28-234, 2719 m (h) RC12-117, 2734 m (i) VM28-246, 2745 m (j) GGC-49, 2800 m (k) VM28-213, 2898 m (l) VM28-230, 2992 m (m) RC17-176, 3156 m (n) VM19-110, 3523 m (o) VM28-227, 3634 m (p) VM28-229, 3669 m.

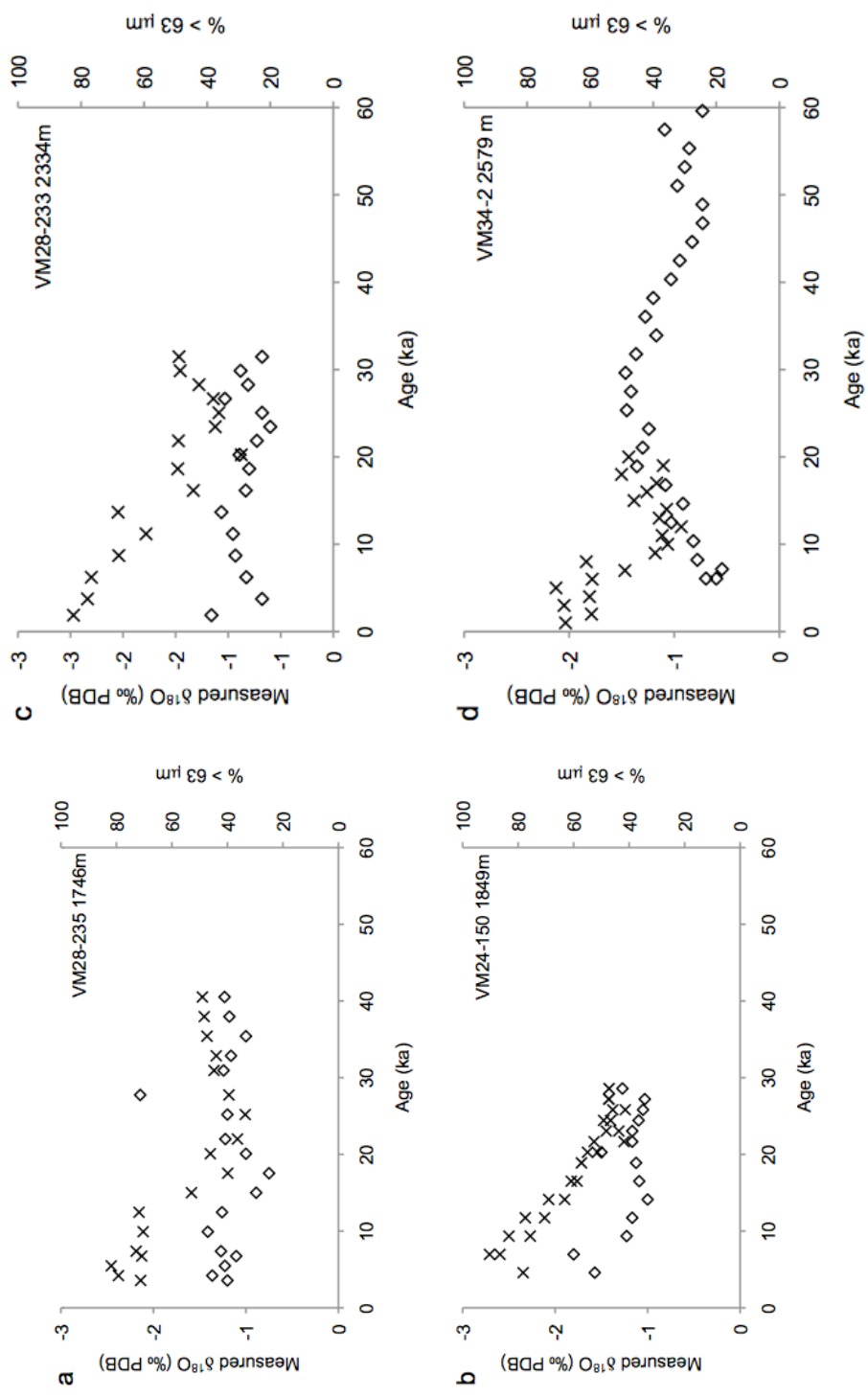


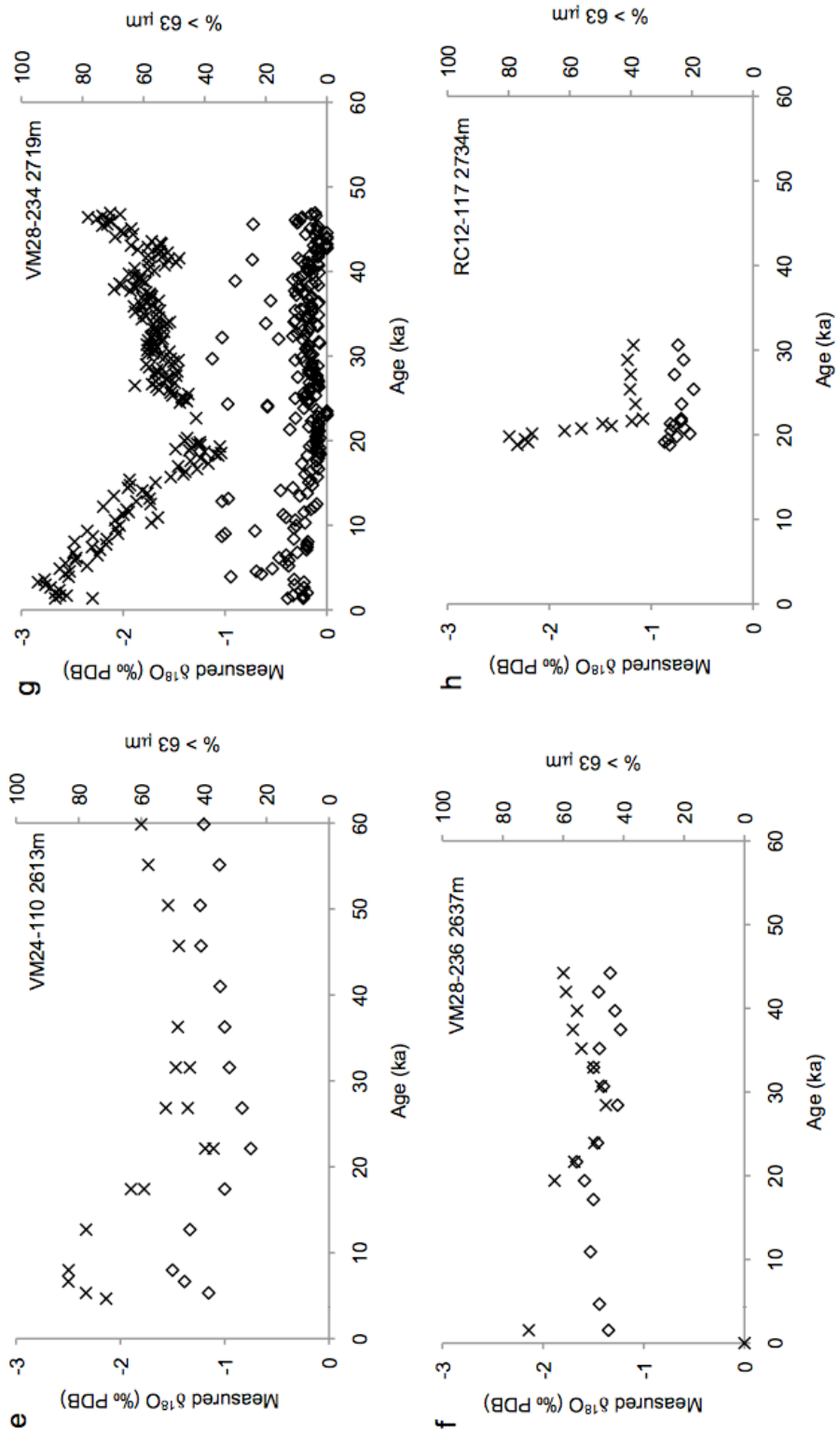


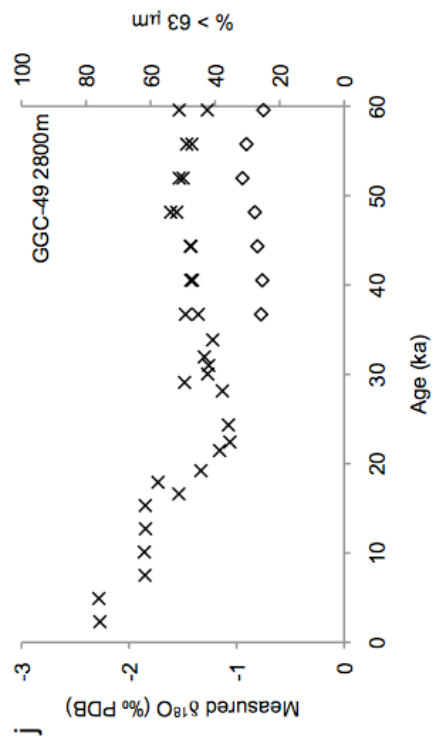
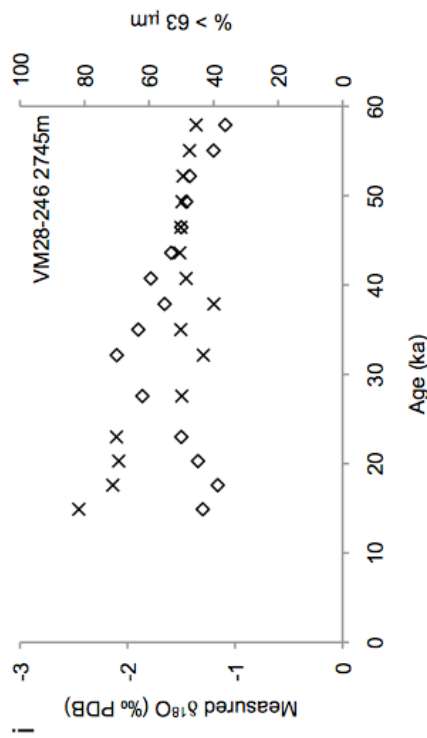
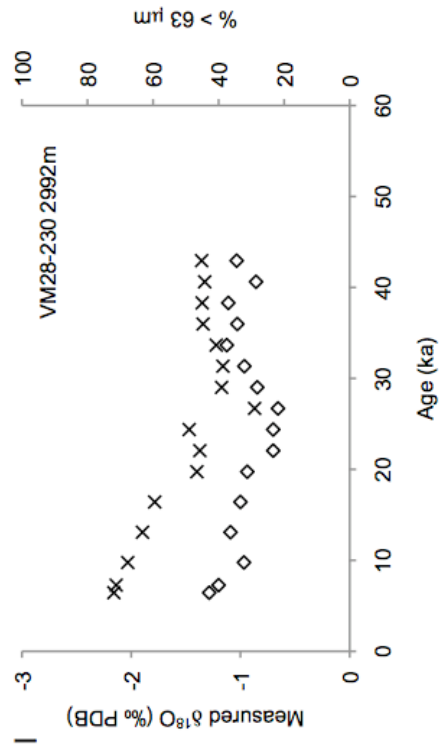
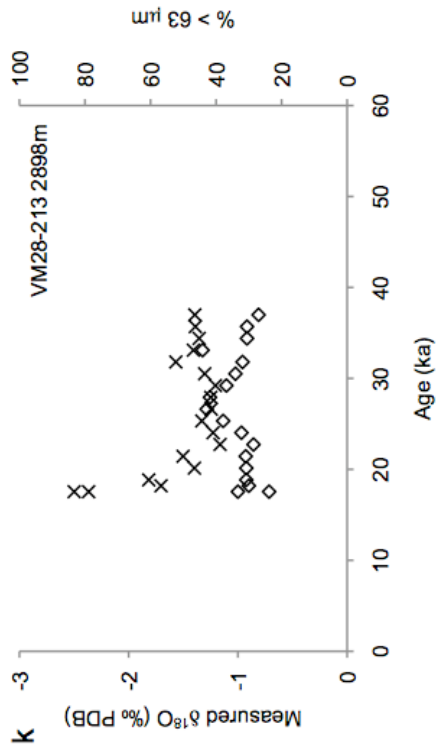


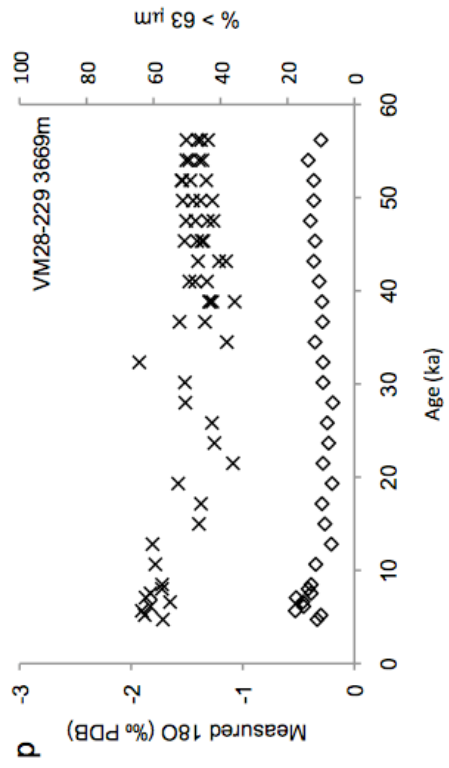
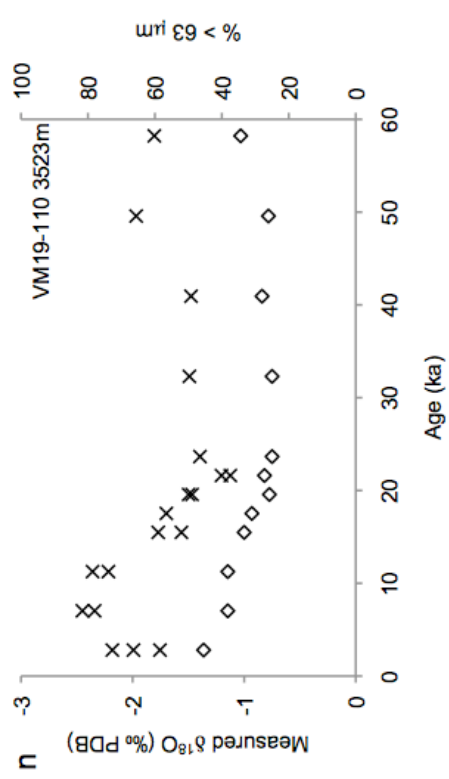
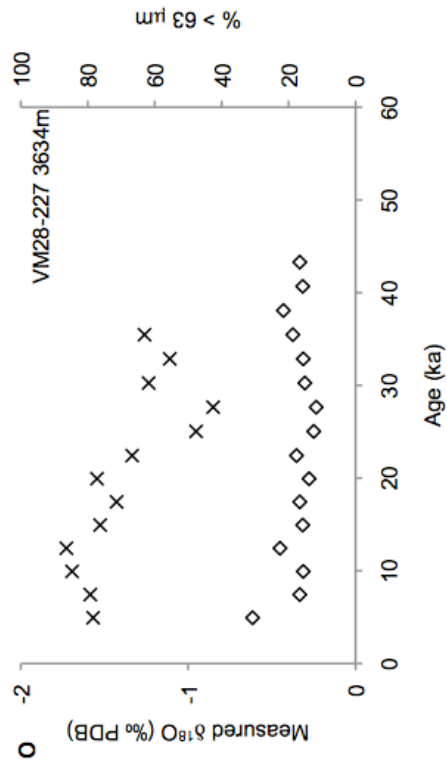
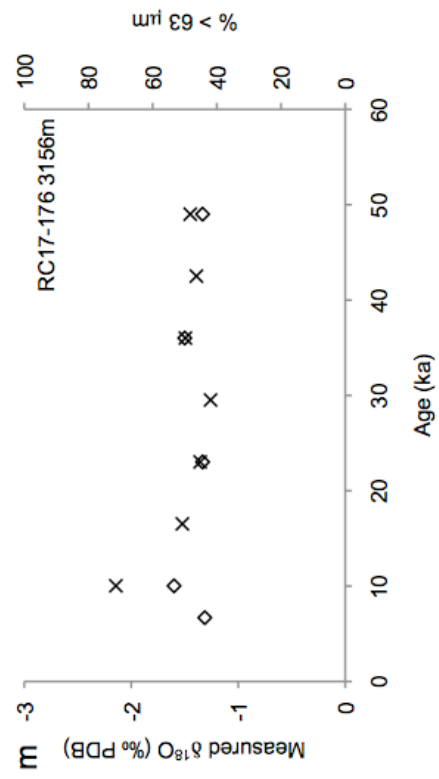


Supplemental Figure 4 (following pages): *G. ruber* $\delta^{18}\text{O}$ (crosses) and % > 63 μm (open diamonds) versus depth for entire cores. Ages and $\delta^{18}\text{O}$ as described in Supplemental Figure 2. (a) VM28-235, 1746 m (b) VM24-150, 1849 m (c) VM28-233, 2334 m (d) VM34-2, 2579 m (e) VM24-110, 2613 m (f) VM28-236, 2637 m (g) VM28-234, 2719 m (h) RC12-117, 2734 m (i) VM28-246, 2745 m (j) GGC-49, 2800 m (k) VM28-213, 2898 m (l) VM28-230, 2992 m (m) RC17-176, 3156 m (n) VM19-110, 3523 m (o) VM28-227, 3634 m (p) VM28-229, 3669 m.









APPENDIX B

DATA

| Core | Depth (cm) | Species | Size fraction (µg) | #forams | $\delta^{13}\text{C}$ (PDB) | $\delta^{18}\text{O}$ (PDB) | Mass (µg) | Time slice | Date analysed (YYYY MMDD) |
|----------|------------|------------------|--------------------|---------|-----------------------------|-----------------------------|-----------|------------|---------------------------|
| VM28-250 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.22 | 125 | | 20090705 |
| VM28-250 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | 0.28 | 127 | | 20090705 |
| VM28-250 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | -0.41 | 82 | | 20090705 |
| VM28-250 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.51 | 0.08 | 143 | | 20090705 |
| VM28-250 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.26 | 145 | | 20090705 |
| VM28-250 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.55 | -0.37 | 107 | | 20090705 |
| VM28-250 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | -0.01 | 151 | | 20090705 |
| VM28-250 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.45 | 0.51 | 105 | | 20090705 |
| VM28-250 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -0.71 | 96 | | 20090705 |
| VM28-250 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.62 | -0.05 | 120 | | 20090705 |
| VM28-250 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | -0.58 | 117 | | 20090705 |
| VM28-250 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | 0.34 | 122 | | 20090705 |

| | | | | | | | | |
|----------|----|------------------|---------|----|------|-------|-----|----------|
| VM28-250 | 0 | <i>G. ruber</i> | 250-355 | 10 | 1.12 | -1.56 | 157 | 20090701 |
| VM28-250 | 4 | <i>G. ruber</i> | 250-355 | 10 | 0.80 | -1.47 | 126 | 20090701 |
| VM28-250 | 12 | <i>G. ruber</i> | 250-355 | 10 | 0.75 | -1.52 | 137 | 20090701 |
| VM28-250 | 16 | <i>G. ruber</i> | 250-355 | 10 | 0.61 | -1.65 | 148 | 20090701 |
| VM28-250 | 20 | <i>G. ruber</i> | 250-355 | 10 | 0.78 | -1.56 | 143 | 20090701 |
| VM28-250 | 24 | <i>G. ruber</i> | 250-355 | 10 | 0.85 | -1.47 | 133 | 20090701 |
| VM28-250 | 28 | <i>G. ruber</i> | 250-355 | 10 | 0.86 | -1.39 | 148 | 20090701 |
| VM28-250 | 32 | <i>G. ruber</i> | 250-355 | 10 | 0.95 | -1.60 | 186 | 20090701 |
| VM28-250 | 36 | <i>G. ruber</i> | 250-355 | 10 | 0.65 | -1.59 | 132 | 20090701 |
| VM28-250 | 40 | <i>G. ruber</i> | 250-355 | 10 | 1.03 | -1.87 | 134 | 20090701 |
| VM28-250 | 44 | <i>G. ruber</i> | 250-355 | 10 | 0.82 | -2.03 | 143 | 20090701 |
| VM28-250 | 48 | <i>G. ruber</i> | 250-355 | 10 | 0.36 | -1.95 | 148 | 20090701 |
| VM28-250 | 52 | <i>G. ruber</i> | 250-355 | 10 | 0.75 | -1.39 | 117 | 20090701 |
| VM28-250 | 56 | <i>G. ruber</i> | 250-355 | 10 | 0.48 | -1.29 | 112 | 20090701 |
| VM28-250 | 60 | <i>G. ruber</i> | 250-355 | 10 | 0.11 | -1.31 | 140 | 20090701 |
| VM28-246 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | 0.25 | 110 | 20090705 |

| | | | | | | | | | |
|----------|----|------------------|---------|---|------|-------|-----|-----|----------|
| VM28-246 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.76 | -0.12 | 118 | | 20090705 |
| VM28-246 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.52 | 0.11 | 149 | | 20090705 |
| VM28-246 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | -0.24 | 141 | | 20090705 |
| VM28-246 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | 0.37 | 122 | | 20090705 |
| VM28-246 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | 0.28 | 134 | | 20090705 |
| VM28-246 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.71 | -0.46 | 144 | | 20100503 |
| VM28-246 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.40 | -0.14 | 155 | | 20100503 |
| VM28-246 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | 0.50 | 109 | | 20100503 |
| VM28-246 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.43 | -0.54 | 140 | | 20100503 |
| VM28-246 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.42 | 0.40 | 113 | | 20100503 |
| VM28-246 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.61 | 0.26 | 155 | LGM | 20100503 |
| VM28-246 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.58 | -0.12 | 154 | LGM | 20100503 |
| VM28-246 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.72 | -0.12 | 120 | LGM | 20100503 |
| VM28-246 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.63 | -0.50 | 116 | LGM | 20100503 |
| VM28-246 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.28 | 0.03 | 112 | LGM | 20100503 |
| VM28-246 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | 0.48 | 126 | LGM | 20100503 |

| | | | | | | | | |
|----------|----|------------------|---------|--------|------|-------|-----|----------|
| VM28-246 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | 0.03 | 114 | 20100503 |
| VM28-246 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | -0.08 | 128 | 20100503 |
| VM28-246 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | -0.08 | 140 | 20100503 |
| VM28-246 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.49 | -0.04 | 167 | 20100823 |
| VM28-246 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.61 | -0.62 | 124 | 20100823 |
| VM28-246 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | -0.06 | 120 | 20100823 |
| VM28-246 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.64 | -0.80 | 133 | 20100823 |
| VM28-246 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.81 | -0.40 | 142 | 20100823 |
| VM28-246 | 20 | <i>G. tumida</i> | 425-500 | Powder | 2.56 | -0.25 | 113 | 20100916 |
| VM28-246 | 20 | <i>G. tumida</i> | 425-500 | Powder | 2.60 | -0.52 | 96 | 20100916 |
| VM28-246 | 20 | <i>G. tumida</i> | 425-500 | Powder | 2.26 | -0.27 | 97 | 20100916 |
| VM28-246 | 20 | <i>G. tumida</i> | 425-500 | Powder | 2.48 | -0.33 | 110 | 20100916 |
| VM28-246 | 20 | <i>G. tumida</i> | 425-500 | Powder | 2.32 | -0.01 | 110 | 20100916 |
| VM28-246 | 20 | <i>G. tumida</i> | 425-500 | Powder | 2.30 | -0.02 | 113 | 20100916 |
| VM28-246 | 20 | <i>G. tumida</i> | 425-500 | Powder | 2.37 | 0.13 | 91 | 20100916 |
| VM28-246 | 20 | <i>G. tumida</i> | 425-500 | Powder | 2.26 | -0.57 | 108 | 20100916 |

| | | | | | | | | | |
|----------|-----|------------------|---------|--------|------|-------|-----|-----------|----------|
| VM28-246 | 20 | <i>G. tumida</i> | 425-500 | Powder | 2.38 | -0.26 | 83 | | 20100916 |
| VM28-246 | 20 | <i>G. tumida</i> | 425-500 | Powder | 2.27 | -0.36 | 128 | | 20100916 |
| VM28-246 | 12 | <i>G. tumida</i> | 355-425 | 1 | 2.50 | -0.53 | 56 | LGM | 20110504 |
| VM28-246 | 12 | <i>G. tumida</i> | 355-425 | 1 | 2.56 | -0.08 | 70 | LGM | 20110504 |
| VM28-246 | 12 | <i>G. tumida</i> | 355-425 | 1 | 2.38 | -0.78 | 78 | LGM | 20110504 |
| VM28-246 | 12 | <i>G. tumida</i> | 355-425 | 1 | 1.61 | -0.54 | 74 | LGM | 20110504 |
| VM28-246 | 12 | <i>G. tumida</i> | 355-425 | 1 | 2.45 | 0.12 | 85 | LGM | 20110504 |
| VM28-246 | 12 | <i>G. tumida</i> | 355-425 | 1 | 2.92 | -0.40 | 72 | LGM | 20110504 |
| VM28-246 | 12 | <i>G. tumida</i> | 355-425 | 1 | 1.82 | 0.34 | 99 | LGM | 20110504 |
| VM28-246 | 100 | <i>G. tumida</i> | 425-500 | 1 | 2.32 | -1.03 | 141 | MIS 5e | 20120403 |
| VM28-246 | 100 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | -1.00 | 124 | MIS 5e | 20120403 |
| VM28-246 | 100 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | -0.66 | 141 | MIS 5e | 20120403 |
| VM28-246 | 100 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | -0.80 | 113 | MIS 5e | 20120403 |
| VM28-246 | 104 | <i>G. tumida</i> | 425-500 | 1 | 2.62 | -0.29 | 131 | | 20120404 |
| VM28-246 | 104 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | -1.09 | 119 | | 20120404 |
| VM28-246 | 104 | <i>G. tumida</i> | 425-500 | 1 | 2.40 | -1.01 | 97 | | 20120404 |

| | | | | | | | | | |
|----------|-----|------------------|---------|---|------|-------|-----|----------|----------|
| VM28-246 | 104 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | -0.07 | 121 | | 20120404 |
| VM28-246 | 104 | <i>G. tumida</i> | 425-500 | 1 | 2.36 | -0.71 | 142 | | 20120404 |
| VM28-246 | 108 | <i>G. tumida</i> | 425-500 | 1 | 1.65 | 0.11 | 151 | MIS 6 | 20120404 |
| VM28-246 | 108 | <i>G. tumida</i> | 425-500 | 1 | 2.54 | -0.44 | 125 | MIS 6 | 20120404 |
| VM28-246 | 108 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | 0.47 | 148 | MIS 6 | 20120404 |
| VM28-246 | 108 | <i>G. tumida</i> | 425-500 | 1 | 2.53 | -0.32 | 123 | MIS 6 | 20120404 |
| VM28-246 | 108 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | 1.03 | 128 | MIS 6 | 20120404 |
| VM28-246 | 112 | <i>G. tumida</i> | 425-500 | 1 | 2.63 | -0.03 | 125 | MIS 6 | 20120404 |
| VM28-246 | 112 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.26 | 131 | MIS 6 | 20120404 |
| VM28-246 | 112 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -0.85 | 119 | MIS 6 | 20120404 |
| VM28-246 | 112 | <i>G. tumida</i> | 425-500 | 1 | 2.35 | 0.02 | 151 | MIS 6 | 20120404 |
| VM28-246 | 112 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | 0.18 | 129 | MIS 6 | 20120404 |
| VM28-246 | 116 | <i>G. tumida</i> | 425-500 | 1 | 1.63 | -0.16 | 132 | MIS 6 | 20120404 |
| VM28-246 | 116 | <i>G. tumida</i> | 425-500 | 1 | 2.30 | 0.13 | 154 | MIS 6 | 20120404 |
| VM28-246 | 116 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | -0.47 | 131 | MIS 6 | 20120404 |
| VM28-246 | 116 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.26 | 153 | MIS 6 | 20120404 |

| | | | | | | | | | |
|----------|-----|------------------|---------|---|------|-------|-----|----------|----------|
| VM28-246 | 116 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | 0.46 | 138 | MIS 6 | 20120404 |
| VM28-246 | 120 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | -0.97 | 132 | MIS 6 | 20120404 |
| VM28-246 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.45 | -0.37 | 140 | MIS 6 | 20120404 |
| VM28-246 | 120 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -0.41 | 127 | MIS 6 | 20120404 |
| VM28-246 | 120 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.89 | 125 | MIS 6 | 20120404 |
| VM28-246 | 124 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | 0.72 | 116 | MIS 6 | 20120406 |
| VM28-246 | 124 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | 0.33 | 157 | MIS 6 | 20120406 |
| VM28-246 | 124 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | 0.25 | 148 | MIS 6 | 20120406 |
| VM28-246 | 124 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | -0.04 | 129 | MIS 6 | 20120406 |
| VM28-246 | 124 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | 0.49 | 132 | MIS 6 | 20120406 |
| VM28-246 | 128 | <i>G. tumida</i> | 425-500 | 1 | 1.61 | 0.14 | 133 | MIS 6 | 20120406 |
| VM28-246 | 128 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | 0.84 | 138 | MIS 6 | 20120406 |
| VM28-246 | 128 | <i>G. tumida</i> | 425-500 | 1 | 2.53 | -0.04 | 153 | MIS 6 | 20120406 |
| VM28-246 | 128 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -0.30 | 149 | MIS 6 | 20120406 |
| VM28-246 | 128 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | 0.57 | 131 | MIS 6 | 20120406 |
| VM28-246 | 132 | <i>G. tumida</i> | 425-500 | 1 | 1.52 | 0.00 | 137 | MIS 6 | 20120406 |

| | | | | | | | | | |
|----------|-----|------------------|---------|---|------|-------|-----|----------|----------|
| VM28-246 | 132 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | 0.82 | 133 | MIS 6 | 20120406 |
| VM28-246 | 132 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | 0.34 | 137 | MIS 6 | 20120406 |
| VM28-246 | 132 | <i>G. tumida</i> | 425-500 | 1 | 1.50 | 0.39 | 148 | MIS 6 | 20120406 |
| VM28-246 | 132 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.07 | 137 | MIS 6 | 20120406 |
| VM28-246 | 136 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | 0.06 | 116 | MIS 6 | 20120406 |
| VM28-246 | 136 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | 0.64 | 112 | MIS 6 | 20120406 |
| VM28-246 | 136 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.01 | 127 | MIS 6 | 20120406 |
| VM28-246 | 136 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | -0.43 | 105 | MIS 6 | 20120406 |
| VM28-246 | 136 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | -0.11 | 122 | MIS 6 | 20120406 |
| VM28-246 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.63 | -0.11 | 125 | MIS 6 | 20120406 |
| VM28-246 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | 0.38 | 145 | MIS 6 | 20120406 |
| VM28-246 | 140 | <i>G. tumida</i> | 425-500 | 1 | 2.33 | -0.03 | 132 | MIS 6 | 20120406 |
| VM28-246 | 140 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.48 | 143 | MIS 6 | 20120406 |
| VM28-246 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | 0.40 | 119 | MIS 6 | 20120406 |
| VM28-246 | 144 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | 0.65 | 149 | MIS 6 | 20120406 |
| VM28-246 | 144 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | 0.44 | 143 | MIS 6 | 20120406 |

| | | | | | | | | | |
|----------|-----|------------------|---------|---|------|-------|-----|----------|----------|
| VM28-246 | 144 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | 0.52 | 146 | MIS 6 | 20120406 |
| VM28-246 | 144 | <i>G. tumida</i> | 425-500 | 1 | 2.83 | -0.23 | 114 | MIS 6 | 20120406 |
| VM28-246 | 144 | <i>G. tumida</i> | 425-500 | 1 | 2.39 | 0.11 | 121 | MIS 6 | 20120406 |
| VM28-246 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | 0.48 | 152 | MIS 6 | 20120406 |
| VM28-246 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.61 | -0.02 | 114 | MIS 6 | 20120406 |
| VM28-246 | 148 | <i>G. tumida</i> | 425-500 | 1 | 2.46 | 0.04 | 106 | MIS 6 | 20120406 |
| VM28-246 | 148 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -0.01 | 118 | MIS 6 | 20120406 |
| VM28-246 | 200 | <i>G. tumida</i> | 425-500 | 1 | 2.45 | -0.57 | 124 | | 20120419 |
| VM28-246 | 200 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | 0.56 | 122 | | 20120419 |
| VM28-246 | 200 | <i>G. tumida</i> | 425-500 | 1 | 2.39 | -0.27 | 109 | | 20120419 |
| VM28-246 | 200 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | -0.54 | 84 | | 20120419 |
| VM28-246 | 200 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | 0.61 | 112 | | 20120419 |
| VM28-246 | 204 | <i>G. tumida</i> | 425-500 | 1 | 2.39 | 0.13 | 131 | | 20120419 |
| VM28-246 | 204 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | -0.53 | 106 | | 20120419 |
| VM28-246 | 204 | <i>G. tumida</i> | 425-500 | 1 | 2.32 | -0.79 | 113 | | 20120419 |
| VM28-246 | 204 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | -1.07 | 94 | | 20120419 |

| | | | | | | | | |
|----------|-----|------------------|---------|---|------|-------|-----|----------|
| VM28-246 | 204 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -1.17 | 119 | 20120419 |
| VM28-246 | 208 | <i>G. tumida</i> | 425-500 | 1 | 2.29 | -1.19 | 134 | 20120419 |
| VM28-246 | 208 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | -0.50 | 112 | 20120419 |
| VM28-246 | 208 | <i>G. tumida</i> | 425-500 | 1 | 2.72 | -0.96 | 106 | 20120419 |
| VM28-246 | 208 | <i>G. tumida</i> | 425-500 | 1 | 2.37 | -0.65 | 106 | 20120419 |
| VM28-246 | 208 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | -0.55 | 108 | 20120419 |
| VM28-246 | 216 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | -0.63 | 112 | 20120419 |
| VM28-246 | 216 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | -0.36 | 98 | 20120419 |
| VM28-246 | 212 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | -0.40 | 92 | 20120419 |
| VM28-246 | 212 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | -0.78 | 97 | 20120419 |
| VM28-246 | 212 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | -0.40 | 92 | 20120419 |
| VM28-246 | 212 | <i>G. tumida</i> | 425-500 | 1 | 1.63 | 0.23 | 105 | 20120419 |
| VM28-246 | 212 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | -0.95 | 93 | 20120419 |
| VM28-246 | 216 | <i>G. tumida</i> | 425-500 | 1 | 2.48 | 0.22 | 106 | 20120419 |
| VM28-246 | 216 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | -1.02 | 82 | 20120419 |
| VM28-246 | 216 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | -0.40 | 138 | 20120419 |

| | | | | | | | | | |
|----------|----|-----------------|---------|----|------|-------|-----|-----|----------|
| VM28-246 | 0 | <i>G. ruber</i> | 250-355 | 10 | 0.96 | -2.45 | 122 | | 20090701 |
| VM28-246 | 4 | <i>G. ruber</i> | 250-355 | 10 | 0.91 | -2.14 | 130 | | 20090701 |
| VM28-246 | 8 | <i>G. ruber</i> | 250-355 | 10 | 1.00 | -2.08 | 150 | LGM | 20090701 |
| VM28-246 | 12 | <i>G. ruber</i> | 250-355 | 10 | 0.72 | -2.10 | 143 | LGM | 20090701 |
| VM28-246 | 16 | <i>G. ruber</i> | 250-355 | 10 | 0.71 | -1.50 | 159 | | 20090701 |
| VM28-246 | 20 | <i>G. ruber</i> | 250-355 | 10 | 0.73 | -1.29 | 126 | | 20090701 |
| VM28-246 | 24 | <i>G. ruber</i> | 250-355 | 10 | 0.73 | -1.50 | 131 | | 20090701 |
| VM28-246 | 28 | <i>G. ruber</i> | 250-355 | 10 | 0.89 | -1.20 | 126 | | 20090705 |
| VM28-246 | 32 | <i>G. ruber</i> | 250-355 | 10 | 0.51 | -1.46 | 127 | | 20090705 |
| VM28-246 | 36 | <i>G. ruber</i> | 250-355 | 10 | 0.88 | -1.51 | 151 | | 20090705 |
| VM28-246 | 40 | <i>G. ruber</i> | 250-355 | 10 | 1.08 | -1.50 | 156 | | 20090705 |
| VM28-246 | 44 | <i>G. ruber</i> | 250-355 | 10 | 0.82 | -1.49 | 129 | | 20090705 |
| VM28-246 | 48 | <i>G. ruber</i> | 250-355 | 10 | 0.53 | -1.48 | 141 | | 20090705 |
| VM28-246 | 52 | <i>G. ruber</i> | 250-355 | 10 | 0.43 | -1.42 | 122 | | 20090705 |
| VM28-246 | 56 | <i>G. ruber</i> | 250-355 | 10 | 0.70 | -1.36 | 114 | | 20090705 |
| VM28-246 | 60 | <i>G. ruber</i> | 250-355 | 10 | 0.63 | -1.86 | 117 | | 20090705 |

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|----------|----|-----------------|---------|----|------|-------|-----|----------|
| VM28-246 | 60 | <i>G. ruber</i> | 250-355 | 10 | 0.72 | -1.79 | 125 | 20120312 |
| VM28-246 | 60 | <i>G. ruber</i> | 250-355 | 10 | 0.67 | -1.61 | 121 | 20120312 |
| VM28-246 | 64 | <i>G. ruber</i> | 250-355 | 10 | 0.45 | -1.59 | 135 | 20120312 |
| VM28-246 | 64 | <i>G. ruber</i> | 250-355 | 10 | 1.00 | -1.86 | 140 | 20120312 |
| VM28-246 | 68 | <i>G. ruber</i> | 250-355 | 10 | 0.78 | -1.92 | 117 | 20120312 |
| VM28-246 | 68 | <i>G. ruber</i> | 250-355 | 10 | 0.62 | -2.07 | 125 | 20120312 |
| VM28-246 | 72 | <i>G. ruber</i> | 250-355 | 10 | 0.60 | -2.07 | 133 | 20120312 |
| VM28-246 | 72 | <i>G. ruber</i> | 250-355 | 10 | 0.73 | -2.17 | 119 | 20120312 |
| VM28-246 | 76 | <i>G. ruber</i> | 250-355 | 10 | 0.78 | -2.16 | 105 | 20120312 |
| VM28-246 | 76 | <i>G. ruber</i> | 250-355 | 10 | 1.07 | -2.26 | 113 | 20120312 |
| VM28-246 | 80 | <i>G. ruber</i> | 250-355 | 10 | 1.01 | -2.02 | 150 | 20120312 |
| VM28-246 | 80 | <i>G. ruber</i> | 250-355 | 10 | 0.84 | -2.00 | 133 | 20120312 |
| VM28-246 | 84 | <i>G. ruber</i> | 250-355 | 10 | 0.85 | -1.83 | 116 | 20120312 |
| VM28-246 | 84 | <i>G. ruber</i> | 250-355 | 10 | 0.24 | -2.36 | 108 | 20120312 |
| VM28-246 | 88 | <i>G. ruber</i> | 250-355 | 10 | 0.58 | -2.12 | 126 | 20120312 |
| VM28-246 | 88 | <i>G. ruber</i> | 250-355 | 10 | 0.60 | -2.22 | 108 | 20120312 |

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|----------|-----|-----------------|---------|----|------|-------|-----|----------|
| VM28-246 | 92 | <i>G. ruber</i> | 250-355 | 10 | 0.68 | -1.99 | 111 | 20120312 |
| VM28-246 | 92 | <i>G. ruber</i> | 250-355 | 10 | 0.80 | -2.10 | 112 | 20120312 |
| VM28-246 | 96 | <i>G. ruber</i> | 250-355 | 10 | 0.71 | -2.23 | 106 | 20120312 |
| VM28-246 | 96 | <i>G. ruber</i> | 250-355 | 10 | 0.82 | -2.42 | 120 | 20120312 |
| VM28-246 | 100 | <i>G. ruber</i> | 250-355 | 10 | 0.76 | -2.08 | 126 | 20120312 |
| VM28-246 | 100 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -2.33 | 145 | 20120312 |
| VM28-246 | 104 | <i>G. ruber</i> | 250-355 | 10 | 0.42 | -2.24 | 137 | 20120312 |
| VM28-246 | 104 | <i>G. ruber</i> | 250-355 | 10 | 0.87 | -1.96 | 123 | 20120312 |
| VM28-246 | 108 | <i>G. ruber</i> | 250-355 | 10 | 0.83 | -2.21 | 129 | 20120314 |
| VM28-246 | 108 | <i>G. ruber</i> | 250-355 | 10 | 0.68 | -2.09 | 112 | 20120314 |
| VM28-246 | 112 | <i>G. ruber</i> | 250-355 | 10 | 0.56 | -2.41 | 119 | 20120314 |
| VM28-246 | 112 | <i>G. ruber</i> | 250-355 | 10 | 0.77 | -2.14 | 132 | 20120314 |
| VM28-246 | 116 | <i>G. ruber</i> | 250-355 | 10 | 0.30 | -2.43 | 116 | 20120314 |
| VM28-246 | 116 | <i>G. ruber</i> | 250-355 | 10 | 0.28 | -2.34 | 117 | 20120314 |
| VM28-246 | 120 | <i>G. ruber</i> | 250-355 | 10 | 0.42 | -2.17 | 128 | 20120314 |
| VM28-246 | 120 | <i>G. ruber</i> | 250-355 | 10 | 0.13 | -1.86 | 112 | 20120314 |

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|----------|-----|-----------------|---------|----|------|-------|-----|----------|
| VM28-246 | 124 | <i>G. ruber</i> | 250-355 | 10 | 0.59 | -1.55 | 134 | 20120314 |
| VM28-246 | 124 | <i>G. ruber</i> | 250-355 | 10 | 0.44 | -1.54 | 130 | 20120314 |
| VM28-246 | 128 | <i>G. ruber</i> | 250-355 | 10 | 0.35 | -1.51 | 134 | 20120314 |
| VM28-246 | 128 | <i>G. ruber</i> | 250-355 | 10 | 0.47 | -1.77 | 130 | 20120314 |
| VM28-246 | 132 | <i>G. ruber</i> | 250-355 | 10 | 0.44 | -1.75 | 120 | 20120314 |
| VM28-246 | 132 | <i>G. ruber</i> | 250-355 | 10 | 0.67 | -1.19 | 152 | 20120314 |
| VM28-246 | 136 | <i>G. ruber</i> | 250-355 | 10 | 0.54 | -1.44 | 123 | 20120314 |
| VM28-246 | 136 | <i>G. ruber</i> | 250-355 | 10 | 0.71 | -1.26 | 146 | 20120314 |
| VM28-246 | 140 | <i>G. ruber</i> | 250-355 | 10 | 0.67 | -1.04 | 146 | 20120314 |
| VM28-246 | 140 | <i>G. ruber</i> | 250-355 | 10 | 0.17 | -1.31 | 135 | 20120314 |
| VM28-246 | 144 | <i>G. ruber</i> | 250-355 | 10 | 0.71 | -1.25 | 150 | 20120314 |
| VM28-246 | 144 | <i>G. ruber</i> | 250-355 | 10 | 0.85 | -1.50 | 131 | 20120314 |
| VM28-246 | 148 | <i>G. ruber</i> | 250-355 | 10 | 0.87 | -1.25 | 150 | 20120314 |
| VM28-246 | 148 | <i>G. ruber</i> | 250-355 | 10 | 0.89 | -1.32 | 144 | 20120314 |
| VM28-246 | 152 | <i>G. ruber</i> | 250-355 | 10 | 0.53 | -1.42 | 128 | 20120314 |
| VM28-246 | 152 | <i>G. ruber</i> | 250-355 | 10 | 0.32 | -1.29 | 131 | 20120314 |

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|----------|-----|-----------------|---------|----|------|-------|-----|----------|
| VM28-246 | 156 | <i>G. ruber</i> | 250-355 | 10 | 0.58 | -1.43 | 129 | 20120316 |
| VM28-246 | 156 | <i>G. ruber</i> | 250-355 | 10 | 0.36 | -1.58 | 144 | 20120316 |
| VM28-246 | 160 | <i>G. ruber</i> | 250-355 | 10 | 0.21 | -1.37 | 134 | 20120316 |
| VM28-246 | 160 | <i>G. ruber</i> | 250-355 | 10 | 0.10 | -1.45 | 124 | 20120316 |
| VM28-246 | 164 | <i>G. ruber</i> | 250-355 | 10 | 0.56 | -1.42 | 135 | 20120316 |
| VM28-246 | 164 | <i>G. ruber</i> | 250-355 | 10 | 0.38 | -1.56 | 152 | 20120316 |
| VM28-246 | 168 | <i>G. ruber</i> | 250-355 | 10 | 0.20 | -1.47 | 127 | 20120316 |
| VM28-246 | 168 | <i>G. ruber</i> | 250-355 | 10 | 0.41 | -1.35 | 133 | 20120316 |
| VM28-246 | 172 | <i>G. ruber</i> | 250-355 | 10 | 0.26 | -1.47 | 138 | 20120316 |
| VM28-246 | 172 | <i>G. ruber</i> | 250-355 | 10 | 0.55 | -1.68 | 125 | 20120319 |
| VM28-246 | 176 | <i>G. ruber</i> | 250-355 | 10 | 0.42 | -1.59 | 135 | 20120319 |
| VM28-246 | 176 | <i>G. ruber</i> | 250-355 | 10 | 0.61 | -1.56 | 135 | 20120319 |
| VM28-246 | 180 | <i>G. ruber</i> | 250-355 | 10 | 0.31 | -1.67 | 130 | 20120319 |
| VM28-246 | 180 | <i>G. ruber</i> | 250-355 | 10 | 0.29 | -1.81 | 131 | 20120319 |
| VM28-246 | 184 | <i>G. ruber</i> | 250-355 | 10 | 0.94 | -1.47 | 149 | 20120319 |
| VM28-246 | 184 | <i>G. ruber</i> | 250-355 | 10 | 0.73 | -1.68 | 131 | 20120319 |

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|----------|-----|-----------------|---------|----|------|-------|-----|----------|
| VM28-246 | 188 | <i>G. ruber</i> | 250-355 | 10 | 0.55 | -1.48 | 153 | 20120319 |
| VM28-246 | 188 | <i>G. ruber</i> | 250-355 | 10 | 0.71 | -1.40 | 144 | 20120319 |
| VM28-246 | 192 | <i>G. ruber</i> | 250-355 | 10 | 0.28 | -1.56 | 136 | 20120319 |
| VM28-246 | 192 | <i>G. ruber</i> | 250-355 | 10 | 0.04 | -1.50 | 127 | 20120319 |
| VM28-246 | 196 | <i>G. ruber</i> | 250-355 | 10 | 0.31 | -1.48 | 115 | 20120319 |
| VM28-246 | 196 | <i>G. ruber</i> | 250-355 | 10 | 0.74 | -1.57 | 115 | 20120319 |
| VM28-246 | 200 | <i>G. ruber</i> | 250-355 | 10 | 0.57 | -1.61 | 104 | 20120319 |
| VM28-246 | 200 | <i>G. ruber</i> | 250-355 | 10 | 0.51 | -1.71 | 112 | 20120319 |
| VM28-246 | 204 | <i>G. ruber</i> | 250-355 | 10 | 0.56 | -1.86 | 105 | 20120320 |
| VM28-246 | 204 | <i>G. ruber</i> | 250-355 | 10 | 0.67 | -1.59 | 131 | 20120320 |
| VM28-246 | 208 | <i>G. ruber</i> | 250-355 | 10 | 0.46 | -1.91 | 125 | 20120320 |
| VM28-246 | 208 | <i>G. ruber</i> | 250-355 | 10 | 0.48 | -2.05 | 123 | 20120320 |
| VM28-246 | 212 | <i>G. ruber</i> | 250-355 | 10 | 0.39 | -2.11 | 105 | 20120320 |
| VM28-246 | 212 | <i>G. ruber</i> | 250-355 | 10 | 0.60 | -1.77 | 108 | 20120320 |
| VM28-246 | 216 | <i>G. ruber</i> | 250-355 | 10 | 0.80 | -1.89 | 114 | 20120320 |
| VM28-246 | 216 | <i>G. ruber</i> | 250-355 | 10 | 0.84 | -1.86 | 115 | 20120320 |

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|----------|-----|-----------------|---------|----|------|-------|-----|----------|
| VM28-246 | 220 | <i>G. ruber</i> | 250-355 | 10 | 0.75 | -1.98 | 107 | 20120320 |
| VM28-246 | 220 | <i>G. ruber</i> | 250-355 | 10 | 0.86 | -1.89 | 118 | 20120320 |
| VM28-246 | 224 | <i>G. ruber</i> | 250-355 | 10 | 0.50 | -1.80 | 97 | 20120320 |
| VM28-246 | 224 | <i>G. ruber</i> | 250-355 | 10 | 0.66 | -1.79 | 118 | 20120320 |
| VM28-246 | 228 | <i>G. ruber</i> | 250-355 | 10 | 0.59 | -1.49 | 120 | 20120320 |
| VM28-246 | 228 | <i>G. ruber</i> | 250-355 | 10 | 0.14 | -1.73 | 98 | 20120320 |
| VM28-246 | 232 | <i>G. ruber</i> | 250-355 | 10 | 0.62 | -1.88 | 116 | 20120320 |
| VM28-246 | 232 | <i>G. ruber</i> | 250-355 | 10 | 0.64 | -1.80 | 118 | 20120320 |
| VM28-246 | 236 | <i>G. ruber</i> | 250-355 | 10 | 0.65 | -1.80 | 121 | 20120320 |
| VM28-246 | 236 | <i>G. ruber</i> | 250-355 | 10 | 0.89 | -1.59 | 113 | 20120320 |
| VM28-246 | 240 | <i>G. ruber</i> | 250-355 | 10 | 0.84 | -1.88 | 139 | 20120320 |
| VM28-246 | 240 | <i>G. ruber</i> | 250-355 | 10 | 0.85 | -2.01 | 126 | 20120320 |
| VM28-246 | 244 | <i>G. ruber</i> | 250-355 | 10 | 0.53 | -1.69 | 147 | 20120320 |
| VM28-246 | 244 | <i>G. ruber</i> | 250-355 | 10 | 0.49 | -1.48 | 127 | 20120320 |
| VM28-246 | 248 | <i>G. ruber</i> | 250-355 | 10 | 0.82 | -1.39 | 145 | 20120320 |
| VM28-246 | 248 | <i>G. ruber</i> | 250-355 | 10 | 0.60 | -1.33 | 140 | 20120320 |

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|----------|-----|---------------------------|---------|---|-------|-------|-----|----------|
| VM28-246 | 8 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.71 | 0.20 | 56 | 20110620 |
| VM28-246 | 8 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.13 | -0.41 | 53 | 20110620 |
| VM28-246 | 8 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.56 | -0.61 | 59 | 20110620 |
| VM28-246 | 16 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.74 | -0.42 | 50 | 20111129 |
| VM28-246 | 16 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.73 | -0.21 | 49 | 20111129 |
| VM28-246 | 16 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.05 | -1.00 | 43 | 20111129 |
| VM28-246 | 16 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.39 | -0.34 | 45 | 20111129 |
| VM28-246 | 16 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.85 | -0.42 | 23 | 20111129 |
| VM28-246 | 16 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.97 | -0.49 | 29 | 20111129 |
| VM28-246 | 16 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.62 | -0.12 | 31 | 20111129 |
| VM28-246 | 92 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.50 | 3.84 | 64 | 20120516 |
| VM28-246 | 92 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.16 | 3.04 | 121 | 20120516 |
| VM28-246 | 92 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.25 | 3.25 | 97 | 20120516 |
| VM28-246 | 96 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.04 | 3.19 | 106 | 20120516 |
| VM28-246 | 100 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.35 | 4.03 | 72 | 20120516 |
| VM28-246 | 100 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.01 | 3.26 | 61 | 20120516 |

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|----------|-----|-------------------------|------|---|-------|------|-----|----------|
| VM28-246 | 100 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.24 | 2.79 | 52 | 20120516 |
| VM28-246 | 104 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.12 | 3.90 | 91 | 20120516 |
| VM28-246 | 108 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.07 | 4.34 | 127 | 20120516 |
| VM28-246 | 108 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.05 | 2.91 | 104 | 20120516 |
| VM28-246 | 108 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.29 | 3.90 | 77 | 20120516 |
| VM28-246 | 112 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.16 | 4.08 | 87 | 20120516 |
| VM28-246 | 112 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.15 | 2.95 | 70 | 20120516 |
| VM28-246 | 116 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.29 | 3.73 | 129 | 20120516 |
| VM28-246 | 116 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.26 | 2.65 | 141 | 20120516 |
| VM28-246 | 116 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.22 | 4.18 | 102 | 20120516 |
| VM28-246 | 120 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.19 | 3.93 | 59 | 20120516 |
| VM28-246 | 120 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.19 | 2.52 | 109 | 20120516 |
| VM28-246 | 124 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.17 | 4.24 | 147 | 20120516 |
| VM28-246 | 124 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.24 | 4.09 | 131 | 20120516 |
| VM28-246 | 124 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.32 | 4.14 | 156 | 20120516 |
| VM28-246 | 128 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.20 | 4.02 | 54 | 20120516 |

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|----------|-----|-------------------------|------|---|-------|------|-----|----------|
| VM28-246 | 132 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.15 | 4.15 | 141 | 20120617 |
| VM28-246 | 132 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.26 | 3.90 | 73 | 20120617 |
| VM28-246 | 132 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.24 | 3.83 | 61 | 20120617 |
| VM28-246 | 136 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.29 | 4.27 | 133 | 20120617 |
| VM28-246 | 136 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.26 | 4.23 | 146 | 20120617 |
| VM28-246 | 136 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.26 | 4.04 | 86 | 20120617 |
| VM28-246 | 144 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.43 | 3.84 | 62 | 20120617 |
| VM28-246 | 148 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.28 | 3.82 | 165 | 20120617 |
| VM28-246 | 148 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.32 | 3.79 | 66 | 20120617 |
| VM28-246 | 152 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.30 | 4.11 | 127 | 20120617 |
| VM28-246 | 152 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.17 | 4.02 | 93 | 20120617 |
| VM28-246 | 160 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.34 | 3.81 | 53 | 20120617 |
| VM28-246 | 164 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.13 | 3.66 | 95 | 20120617 |
| VM28-246 | 164 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.38 | 3.98 | 111 | 20120617 |
| VM28-246 | 168 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.30 | 3.72 | 69 | 20120617 |
| VM28-246 | 168 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.25 | 3.63 | 75 | 20120617 |

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| VM28-246 | 172 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.21 | 3.82 | 73 | 20120617 |
| VM28-246 | 172 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.28 | 3.79 | 177 | 20120617 |
| VM28-246 | 172 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.36 | 3.69 | 83 | 20120617 |
| VM28-246 | 176 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.34 | 3.71 | 124 | 20120617 |
| VM28-246 | 176 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.35 | 3.56 | 51 | 20120617 |
| VM28-246 | 176 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.38 | 3.61 | 52 | 20120617 |
| VM28-246 | 64 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.46 | 3.45 | 45 | 20120518 |
| VM28-246 | 80 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.17 | 3.43 | 26 | 20120518 |
| VM28-246 | 84 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.38 | 3.16 | 47 | 20120518 |
| VM28-246 | 84 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.24 | 3.40 | 36 | 20120518 |
| VM28-246 | 224 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.10 | 3.52 | 23 | 20120518 |
| VM28-246 | 96 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.32 | 3.20 | 45 | 20120518 |
| VM28-246 | 96 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.29 | 3.20 | 30 | 20120518 |
| VM28-246 | 112 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.05 | 4.08 | 40 | 20120518 |
| VM28-246 | 128 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.16 | 4.14 | 40 | 20120518 |
| VM28-246 | 128 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.02 | 4.27 | 48 | 20120518 |

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| VM28-246 | 140 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.23 | 3.69 | 43 | 20120518 |
| VM28-246 | 140 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.10 | 4.04 | 36 | 20120518 |
| VM28-246 | 144 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.07 | 4.19 | 35 | 20120518 |
| VM28-246 | 156 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.15 | 4.04 | 27 | 20120518 |
| VM28-246 | 8 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.46 | 2.72 | 49 | 20120518 |
| VM28-246 | 12 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.17 | 3.15 | 48 | 20120518 |
| VM28-246 | 16 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.21 | 3.79 | 43 | 20120518 |
| VM28-246 | 16 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.03 | 3.72 | 22 | 20120518 |
| VM28-246 | 24 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.31 | 2.96 | 25 | 20120518 |
| VM28-246 | 24 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.25 | 3.86 | 22 | 20120518 |
| VM28-246 | 28 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.19 | 3.82 | 29 | 20120518 |
| VM28-246 | 28 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.02 | 4.02 | 32 | 20120518 |
| VM28-246 | 48 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.34 | 3.18 | 45 | 20120518 |
| VM28-246 | 60 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.12 | 4.03 | 39 | 20120518 |
| VM28-246 | 60 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.15 | 3.78 | 45 | 20120518 |
| VM28-246 | 204 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.04 | 3.29 | 36 | 20120518 |

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|----------|-----|-------------------------|------|---|-------|------|-----|----------|
| VM28-246 | 204 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.05 | 3.57 | 35 | 20120518 |
| VM28-246 | 208 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.37 | 3.26 | 46 | 20120518 |
| VM28-246 | 212 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.10 | 3.56 | 25 | 20120518 |
| VM28-246 | 180 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.13 | 3.83 | 54 | 20120521 |
| VM28-246 | 180 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.22 | 3.80 | 76 | 20120521 |
| VM28-246 | 180 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.07 | 3.82 | 50 | 20120521 |
| VM28-246 | 184 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.33 | 3.96 | 129 | 20120521 |
| VM28-246 | 184 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.39 | 3.75 | 98 | 20120521 |
| VM28-246 | 184 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.39 | 3.79 | 54 | 20120521 |
| VM28-246 | 188 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.23 | 3.98 | 112 | 20120521 |
| VM28-246 | 188 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.20 | 3.85 | 192 | 20120521 |
| VM28-246 | 188 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.19 | 3.94 | 175 | 20120521 |
| VM28-246 | 192 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.19 | 4.24 | 145 | 20120521 |
| VM28-246 | 192 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.28 | 3.89 | 124 | 20120521 |
| VM28-246 | 192 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.30 | 3.89 | 119 | 20120521 |
| VM28-246 | 196 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.26 | 3.86 | 71 | 20120521 |

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|----------|-----|-------------------------|------|---|-------|------|-----|----------|
| VM28-246 | 196 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.33 | 3.72 | 114 | 20120521 |
| VM28-246 | 196 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.24 | 3.96 | 83 | 20120521 |
| VM28-246 | 200 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.06 | 3.20 | 131 | 20120521 |
| VM28-246 | 200 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.31 | 3.85 | 66 | 20120521 |
| VM28-246 | 204 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.26 | 3.14 | 63 | 20120521 |
| VM28-246 | 208 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.04 | 3.25 | 95 | 20120521 |
| VM28-246 | 208 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.27 | 3.35 | 149 | 20120521 |
| VM28-246 | 212 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.10 | 3.90 | 101 | 20120521 |
| VM28-246 | 212 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.19 | 3.07 | 55 | 20120521 |
| VM28-246 | 248 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.20 | 4.07 | 88 | 20120521 |
| VM28-246 | 248 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.17 | 3.89 | 152 | 20120521 |
| VM28-246 | 216 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.12 | 2.99 | 68 | 20120522 |
| VM28-246 | 216 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.06 | 3.73 | 93 | 20120522 |
| VM28-246 | 216 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.02 | 3.54 | 54 | 20120522 |
| VM28-246 | 220 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.23 | 2.83 | 112 | 20120522 |
| VM28-246 | 220 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.23 | 2.81 | 65 | 20120522 |

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|----------|-----|-------------------------|------|---|-------|------|-----|----------|
| VM28-246 | 224 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.10 | 3.03 | 54 | 20120522 |
| VM28-246 | 224 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.18 | 3.01 | 85 | 20120522 |
| VM28-246 | 228 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.22 | 3.85 | 128 | 20120522 |
| VM28-246 | 228 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.07 | 3.80 | 63 | 20120522 |
| VM28-246 | 228 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.36 | 2.57 | 52 | 20120522 |
| VM28-246 | 232 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.08 | 3.89 | 111 | 20120522 |
| VM28-246 | 232 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.16 | 3.75 | 136 | 20120522 |
| VM28-246 | 236 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.10 | 3.33 | 124 | 20120522 |
| VM28-246 | 236 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.18 | 3.51 | 66 | 20120522 |
| VM28-246 | 236 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.09 | 3.51 | 54 | 20120522 |
| VM28-246 | 240 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.50 | 2.70 | 116 | 20120522 |
| VM28-246 | 240 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.22 | 3.32 | 81 | 20120522 |
| VM28-246 | 240 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.06 | 3.00 | 52 | 20120522 |
| VM28-246 | 244 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.15 | 3.36 | 123 | 20120522 |
| VM28-246 | 244 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.06 | 2.75 | 76 | 20120522 |
| VM28-246 | 244 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.34 | 3.83 | 114 | 20120522 |

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|----------|-----|-------------------------|------|-----|-------|------|-----|-----------|
| VM28-246 | 248 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.19 | 3.94 | 94 | 20120522 |
| VM28-246 | 8 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.33 | 2.72 | 114 | 201200523 |
| VM28-246 | 8 | <i>C. wuellerstorfi</i> | >250 | 0.5 | -0.23 | 3.80 | 131 | 201200523 |
| VM28-246 | 20 | <i>C. wuellerstorfi</i> | >250 | 0.5 | -0.13 | 4.18 | 150 | 201200523 |
| VM28-246 | 20 | <i>C. wuellerstorfi</i> | >250 | 0.5 | -0.13 | 4.07 | 113 | 201200523 |
| VM28-246 | 28 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.28 | 3.90 | 85 | 201200523 |
| VM28-246 | 32 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.17 | 3.57 | 51 | 201200523 |
| VM28-246 | 32 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.21 | 2.98 | 30 | 201200523 |
| VM28-246 | 36 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.20 | 3.59 | 51 | 201200523 |
| VM28-246 | 36 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.03 | 3.50 | 98 | 201200523 |
| VM28-246 | 44 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.03 | 3.59 | 90 | 201200523 |
| VM28-246 | 44 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.11 | 3.54 | 98 | 201200523 |
| VM28-246 | 52 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.26 | 3.67 | 72 | 201200523 |
| VM28-246 | 56 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.08 | 3.83 | 92 | 201200523 |
| VM28-246 | 60 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.08 | 3.76 | 86 | 201200523 |
| VM28-246 | 0 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.27 | 2.51 | 129 | 20100809 |

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| VM28-246 | 0 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.44 | 2.60 | 73 | | 20100809 |
| VM28-246 | 0 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.47 | 2.49 | 118 | | 20100809 |
| VM28-246 | 4 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.18 | 4.13 | 146 | | 20100809 |
| VM28-246 | 4 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.39 | 2.51 | 144 | | 20100809 |
| VM28-246 | 4 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.21 | 2.75 | 61 | | 20100809 |
| VM19-110 | 1 | <i>G. tumida</i> | | 1 | 2.27 | -0.15 | 94 | LH | 20090406 |
| VM19-110 | 1 | <i>G. tumida</i> | | 1 | 2.58 | 0.36 | 99 | LH | 20090406 |
| VM19-110 | 1 | <i>G. tumida</i> | | 1 | 1.86 | -0.79 | 98 | LH | 20090406 |
| VM19-110 | 1 | <i>G. tumida</i> | | 1 | 2.27 | 0.36 | 93 | LH | 20090406 |
| VM19-110 | 1 | <i>G. tumida</i> | | 1 | 2.15 | 1.19 | 93 | LH | 20090406 |
| VM19-110 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | -0.63 | 116 | LH | 20080815 |
| VM19-110 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -1.20 | 150 | LH | 20080815 |
| VM19-110 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | -1.03 | 151 | LH | 20080825 |
| VM19-110 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.29 | 0.29 | 116 | LH | 20080825 |
| VM19-110 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | 0.06 | 101 | LH | 20080825 |
| VM19-110 | 4 | <i>G. tumida</i> | 355-425 | 1 | 1.79 | -1.10 | 93 | LH | 20100927 |

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| VM19-110 | 4 | <i>G. tumida</i> | 355-425 | 1 | 2.18 | 0.82 | 89 | LH | 20100927 |
| VM19-110 | 4 | <i>G. tumida</i> | 355-425 | 1 | 2.13 | -1.08 | 97 | LH | 20100927 |
| VM19-110 | 4 | <i>G. tumida</i> | 355-425 | 1 | 1.76 | -0.72 | 69 | LH | 20100927 |
| VM19-110 | 4 | <i>G. tumida</i> | 355-425 | 1 | 2.00 | 0.74 | 90 | LH | 20100927 |
| VM19-110 | 4 | <i>G. tumida</i> | 355-425 | 1 | 1.77 | 0.12 | 90 | LH | 20100927 |
| VM19-110 | 4 | <i>G. tumida</i> | 355-425 | 1 | 1.87 | 0.15 | 70 | LH | 20100927 |
| VM19-110 | 4 | <i>G. tumida</i> | 355-425 | 1 | 2.39 | -0.98 | 101 | LH | 20100927 |
| VM19-110 | 4 | <i>G. tumida</i> | 355-425 | 1 | 2.29 | -0.23 | 92 | LH | 20110630 |
| VM19-110 | 4 | <i>G. tumida</i> | 355-425 | 1 | 2.07 | -1.00 | 101 | LH | 20110630 |
| VM19-110 | 4 | <i>G. tumida</i> | 355-425 | 1 | 1.61 | 0.15 | 105 | LH | 20110630 |
| VM19-110 | 4 | <i>G. tumida</i> | 355-425 | 1 | 1.75 | -0.43 | 104 | LH | 20110630 |
| VM19-110 | 4 | <i>G. tumida</i> | 355-425 | 1 | 1.94 | -0.74 | 112 | LH | 20110630 |
| VM19-110 | 4 | <i>G. tumida</i> | 355-425 | 1 | 1.88 | -0.77 | 98 | LH | 20110630 |
| VM19-110 | 4 | <i>G. tumida</i> | 355-425 | 1 | 1.85 | -0.74 | 77 | LH | 20110630 |
| VM19-110 | 4 | <i>G. tumida</i> | 355-425 | 1 | 1.91 | -0.48 | 102 | LH | 20110630 |
| VM19-110 | 4 | <i>G. tumida</i> | 355-425 | 1 | 1.85 | -0.90 | 92 | LH | 20110630 |

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|----------|----|------------------|---------|---|------|-------|-----|----|----------|
| VM19-110 | 4 | <i>G. tumida</i> | 355-425 | 1 | 1.75 | -0.23 | 92 | LH | 20110630 |
| VM19-110 | 4 | <i>G. tumida</i> | 355-425 | 1 | 2.01 | -0.36 | 80 | LH | 20110630 |
| VM19-110 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | -0.24 | 147 | | 20080815 |
| VM19-110 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | 0.57 | 115 | | 20080815 |
| VM19-110 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -0.14 | 145 | | 20080815 |
| VM19-110 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -0.49 | 138 | | 20080815 |
| VM19-110 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.78 | -0.48 | 135 | | 20080815 |
| VM19-110 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | -1.26 | 112 | | 20091008 |
| VM19-110 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | -0.27 | 138 | | 20091008 |
| VM19-110 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 1.11 | 115 | | 20091008 |
| VM19-110 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.47 | 0.05 | 140 | | 20091008 |
| VM19-110 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.76 | -0.08 | 100 | | 20091008 |
| VM19-110 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | 0.84 | 114 | | 20080815 |
| VM19-110 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | 0.83 | 120 | | 20080815 |
| VM19-110 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.27 | 0.69 | 118 | | 20080815 |
| VM19-110 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | 0.31 | 157 | | 20080815 |

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| VM19-110 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.76 | 1.77 | 100 | | 20080815 |
| VM19-110 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | 0.61 | 106 | | 20080815 |
| VM19-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | -0.85 | 128 | LGM | 20080815 |
| VM19-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | 1.08 | 108 | LGM | 20080815 |
| VM19-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | 1.11 | 114 | LGM | 20080815 |
| VM19-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.25 | 0.33 | 106 | LGM | 20110510 |
| VM19-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | 1.14 | 88 | LGM | 20110510 |
| VM19-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.39 | 0.51 | 94 | LGM | 20110510 |
| VM19-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.49 | 0.15 | 100 | LGM | 20110510 |
| VM19-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.42 | 0.14 | 95 | LGM | 20110510 |
| VM19-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | 1.45 | 105 | LGM | 20110510 |
| VM19-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.26 | 0.41 | 91 | LGM | 20110510 |
| VM19-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | 0.64 | 80 | LGM | 20110510 |
| VM19-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.40 | -0.11 | 108 | LGM | 20110510 |
| VM19-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | 0.77 | 109 | LGM | 20110510 |
| VM19-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | 0.90 | 126 | LGM | 20080815 |

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|----------|----|------------------|---------|---|------|-------|-----|-----|----------|
| VM19-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.42 | 0.79 | 98 | LGM | 20080815 |
| VM19-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | 1.46 | 108 | LGM | 20080815 |
| VM19-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | -0.77 | 138 | LGM | 20081206 |
| VM19-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.66 | -0.04 | 150 | LGM | 20081206 |
| VM19-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | 0.02 | 101 | LGM | 20081206 |
| VM19-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 1.52 | 95 | LGM | 20081206 |
| VM19-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.55 | 0.48 | 116 | LGM | 20081206 |
| VM19-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.58 | 0.26 | 162 | LGM | 20101221 |
| VM19-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 1.45 | 82 | LGM | 20101221 |
| VM19-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.53 | -1.10 | 96 | LGM | 20101221 |
| VM19-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | 1.57 | 121 | LGM | 20101221 |
| VM19-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.83 | 111 | LGM | 20101221 |
| VM19-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.54 | 0.09 | 151 | LGM | 20101221 |
| VM19-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.78 | 1.42 | 79 | LGM | 20101221 |
| VM19-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | 1.77 | 82 | LGM | 20101221 |
| VM19-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | 0.11 | 102 | LGM | 20101221 |

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| VM19-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.15 | 91 | LGM | 20101221 |
| VM19-110 | 4 | <i>G. ruber</i> | | | 1.43 | -1.75 | 65 | LH | 20081014 |
| VM19-110 | 8 | <i>G. ruber</i> | | | 1.55 | -2.45 | 65 | | 20081014 |
| VM19-110 | 12 | <i>G. ruber</i> | | | 1.33 | -2.36 | 59 | | 20081014 |
| VM19-110 | 16 | <i>G. ruber</i> | | | 1.20 | -1.56 | 67 | | 20081014 |
| VM19-110 | 24 | <i>G. ruber</i> | | | 1.03 | -1.47 | 71 | LGM | 20081014 |
| VM19-110 | 28 | <i>G. ruber</i> | | | 0.92 | -1.12 | 57 | LGM | 20081014 |
| VM19-110 | 4 | <i>G. ruber</i> | 250-355 | 10 | 1.03 | -1.99 | 123 | LH | 20091117 |
| VM19-110 | 4 | <i>G. ruber</i> | 250-355 | 10 | 1.20 | -2.18 | 126 | LH | 20091204 |
| VM19-110 | 8 | <i>G. ruber</i> | 250-355 | 10 | 1.46 | -2.34 | 119 | | 20091204 |
| VM19-110 | 12 | <i>G. ruber</i> | 250-355 | 10 | 1.42 | -2.22 | 146 | | 20091204 |
| VM19-110 | 16 | <i>G. ruber</i> | 250-355 | 10 | 1.13 | -1.77 | 136 | | 20091204 |
| VM19-110 | 20 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -1.70 | 137 | | 20091204 |
| VM19-110 | 24 | <i>G. ruber</i> | 250-355 | 10 | 1.17 | -1.50 | 158 | LGM | 20091204 |
| VM19-110 | 28 | <i>G. ruber</i> | 250-355 | 10 | 1.08 | -1.20 | 133 | LGM | 20091204 |
| VM19-110 | 32 | <i>G. ruber</i> | 250-355 | 10 | 0.95 | -1.40 | 115 | | 20110130 |

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| VM19-110 | 36 | <i>G. ruber</i> | 250-355 | 10 | 1.13 | -1.49 | 113 | 20110130 |
| VM19-110 | 40 | <i>G. ruber</i> | 250-355 | 10 | 1.33 | -1.48 | 142 | 20110130 |
| VM19-110 | 44 | <i>G. ruber</i> | 250-355 | 10 | 0.93 | -1.97 | 119 | 20110130 |
| VM19-110 | 48 | <i>G. ruber</i> | 250-355 | 10 | 1.09 | -1.81 | 128 | 20110130 |
| VM19-110 | 52 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -1.62 | 126 | 20110130 |
| VM19-110 | 56 | <i>G. ruber</i> | 250-355 | 10 | 0.89 | -1.67 | 94 | 20110130 |
| VM19-110 | 68 | <i>G. ruber</i> | 250-355 | 10 | 0.40 | -1.14 | 119 | 20110523 |
| VM19-110 | 68 | <i>G. ruber</i> | 250-355 | 10 | 0.22 | -1.33 | 130 | 20110523 |
| VM19-110 | 72 | <i>G. ruber</i> | 250-355 | 10 | 0.83 | -1.14 | 107 | 20110523 |
| VM19-110 | 72 | <i>G. ruber</i> | 250-355 | 10 | 0.46 | -1.15 | 111 | 20110523 |
| VM19-110 | 76 | <i>G. ruber</i> | 250-355 | 10 | 0.64 | -0.93 | 114 | 20110523 |
| VM19-110 | 76 | <i>G. ruber</i> | 250-355 | 10 | 0.44 | -1.36 | 103 | 20110523 |
| VM19-110 | 80 | <i>G. ruber</i> | 250-355 | 10 | 0.72 | -0.95 | 123 | 20110523 |
| VM19-110 | 80 | <i>G. ruber</i> | 250-355 | 10 | 0.50 | -1.26 | 119 | 20110523 |
| VM19-110 | 84 | <i>G. ruber</i> | 250-355 | 10 | 0.42 | -1.03 | 131 | 20110523 |
| VM19-110 | 84 | <i>G. ruber</i> | 250-355 | 10 | 0.31 | -1.06 | 130 | 20110523 |

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| VM19-110 | 88 | <i>G. ruber</i> | 250-355 | 10 | 0.42 | -1.11 | 110 | 20110523 |
| VM19-110 | 88 | <i>G. ruber</i> | 250-355 | 10 | 0.74 | -0.95 | 115 | 20110523 |
| VM19-110 | 92 | <i>G. ruber</i> | 250-355 | 10 | 0.84 | -1.43 | 102 | 20110523 |
| VM19-110 | 92 | <i>G. ruber</i> | 250-355 | 10 | 0.38 | -1.23 | 95 | 20110523 |
| VM19-110 | 96 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -1.18 | 100 | 20110523 |
| VM19-110 | 96 | <i>G. ruber</i> | 250-355 | 10 | 0.76 | -1.38 | 113 | 20110523 |
| VM19-110 | 112 | <i>G. ruber</i> | 250-355 | 10 | 0.51 | -1.24 | 107 | 20110523 |
| VM19-110 | 112 | <i>G. ruber</i> | 250-355 | 10 | 0.57 | -1.13 | 117 | 20110523 |
| VM19-110 | 116 | <i>G. ruber</i> | 250-355 | 10 | 0.76 | -0.97 | 118 | 20110523 |
| VM19-110 | 116 | <i>G. ruber</i> | 250-355 | 10 | 0.63 | -1.15 | 109 | 20110523 |
| VM19-110 | 120 | <i>G. ruber</i> | 250-355 | 10 | 0.49 | -1.18 | 128 | 20110523 |
| VM19-110 | 120 | <i>G. ruber</i> | 250-355 | 10 | 0.54 | -0.96 | 110 | 20110523 |
| VM19-110 | 144 | <i>G. ruber</i> | 250-355 | 10 | 0.59 | -1.19 | 128 | 20110523 |
| VM19-110 | 148 | <i>G. ruber</i> | 250-355 | 10 | 0.54 | -1.12 | 122 | 20110523 |
| VM19-110 | 152 | <i>G. ruber</i> | 250-355 | 10 | 0.29 | -0.97 | 127 | 20110524 |
| VM19-110 | 156 | <i>G. ruber</i> | 250-355 | 10 | 0.82 | -0.78 | 122 | 20110524 |

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| VM19-110 | 160 | <i>G. ruber</i> | 250-355 | 10 | 0.58 | -0.86 | 106 | 20110524 |
| VM19-110 | 160 | <i>G. ruber</i> | 250-355 | 10 | 0.60 | -0.73 | 104 | 20110524 |
| VM19-110 | 164 | <i>G. ruber</i> | 250-355 | 10 | 0.45 | -0.96 | 123 | 20110524 |
| VM19-110 | 164 | <i>G. ruber</i> | 250-355 | 10 | 0.22 | -1.04 | 126 | 20110524 |
| VM19-110 | 168 | <i>G. ruber</i> | 250-355 | 10 | 0.62 | -0.80 | 134 | 20110524 |
| VM19-110 | 168 | <i>G. ruber</i> | 250-355 | 10 | 0.48 | -1.10 | 138 | 20110524 |
| VM19-110 | 172 | <i>G. ruber</i> | 250-355 | 10 | 0.50 | -0.92 | 117 | 20110524 |
| VM19-110 | 172 | <i>G. ruber</i> | 250-355 | 10 | -0.13 | -0.89 | 104 | 20110524 |
| VM19-110 | 176 | <i>G. ruber</i> | 250-355 | 10 | 0.61 | -1.00 | 119 | 20110524 |
| VM19-110 | 176 | <i>G. ruber</i> | 250-355 | 10 | 0.23 | -0.95 | 112 | 20110524 |
| VM19-110 | 180 | <i>G. ruber</i> | 250-355 | 10 | 0.51 | -1.14 | 117 | 20110524 |
| VM19-110 | 180 | <i>G. ruber</i> | 250-355 | 10 | 0.81 | -1.06 | 113 | 20110524 |
| VM19-110 | 184 | <i>G. ruber</i> | 250-355 | 10 | 0.60 | -1.43 | 108 | 20110524 |
| VM19-110 | 188 | <i>G. ruber</i> | 250-355 | 10 | 0.67 | -1.20 | 119 | 20110524 |
| VM19-110 | 188 | <i>G. ruber</i> | 250-355 | 10 | 0.33 | -1.14 | 123 | 20110524 |
| VM19-110 | 192 | <i>G. ruber</i> | 250-355 | 10 | 0.66 | -1.19 | 96 | 20110524 |

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| VM19-110 | 192 | <i>G. ruber</i> | 250-355 | 10 | 0.63 | -1.40 | 118 | 20110524 |
| VM19-110 | 196 | <i>G. ruber</i> | 250-355 | 10 | 0.90 | -1.31 | 127 | 20110524 |
| VM19-110 | 196 | <i>G. ruber</i> | 250-355 | 10 | 0.21 | -1.42 | 123 | 20110524 |
| VM19-110 | 310 | <i>G. ruber</i> | 250-355 | 10 | 0.52 | -1.48 | 104 | 20120227 |
| VM19-110 | 310 | <i>G. ruber</i> | 250-355 | 10 | 0.54 | -1.51 | 115 | 20120227 |
| VM19-110 | 314 | <i>G. ruber</i> | 250-355 | 10 | 0.04 | -1.42 | 96 | 20120227 |
| VM19-110 | 318 | <i>G. ruber</i> | 250-355 | 10 | 0.49 | -1.29 | 111 | 20120227 |
| VM19-110 | 334 | <i>G. ruber</i> | 250-355 | 10 | 0.71 | -1.30 | 108 | 20120227 |
| VM19-110 | 334 | <i>G. ruber</i> | 250-355 | 10 | 1.14 | -1.64 | 130 | 20120227 |
| VM19-110 | 338 | <i>G. ruber</i> | 250-355 | 10 | 0.35 | -1.34 | 106 | 20120227 |
| VM19-110 | 338 | <i>G. ruber</i> | 250-355 | 10 | 0.27 | -1.44 | 119 | 20120227 |
| VM19-110 | 342 | <i>G. ruber</i> | 250-355 | 10 | 0.85 | -1.45 | 109 | 20120227 |
| VM19-110 | 342 | <i>G. ruber</i> | 250-355 | 10 | 0.65 | -1.40 | 126 | 20120227 |
| VM19-110 | 346 | <i>G. ruber</i> | 250-355 | 10 | 0.87 | -1.37 | 118 | 20120227 |
| VM19-110 | 346 | <i>G. ruber</i> | 250-355 | 10 | 1.15 | -1.43 | 121 | 20120227 |
| VM19-110 | 350 | <i>G. ruber</i> | 250-355 | 10 | 1.15 | -1.51 | 129 | 20120227 |

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| VM19-110 | 350 | <i>G. ruber</i> | 250-355 | 10 | 1.08 | -1.53 | 114 | 20120227 |
| VM19-110 | 354 | <i>G. ruber</i> | 250-355 | 10 | 0.98 | -1.39 | 108 | 20120227 |
| VM19-110 | 354 | <i>G. ruber</i> | 250-355 | 10 | 0.95 | -1.44 | 107 | 20120227 |
| VM19-110 | 358 | <i>G. ruber</i> | 250-355 | 10 | 0.72 | -1.39 | 119 | 20120227 |
| VM19-110 | 358 | <i>G. ruber</i> | 250-355 | 10 | 0.87 | -1.06 | 108 | 20120227 |
| VM19-110 | 362 | <i>G. ruber</i> | 250-355 | 10 | 0.63 | -1.19 | 107 | 20120227 |
| VM19-110 | 362 | <i>G. ruber</i> | 250-355 | 10 | 1.02 | -1.13 | 111 | 20120227 |
| VM19-110 | 366 | <i>G. ruber</i> | 250-355 | 10 | 0.26 | -1.12 | 120 | 20120227 |
| VM19-110 | 366 | <i>G. ruber</i> | 250-355 | 10 | 0.39 | -0.95 | 153 | 20120227 |
| VM19-110 | 374 | <i>G. ruber</i> | 250-355 | 10 | 0.99 | -1.33 | 115 | 20120227 |
| VM19-110 | 374 | <i>G. ruber</i> | 250-355 | 10 | 1.03 | -1.45 | 129 | 20120227 |
| VM19-110 | 378 | <i>G. ruber</i> | 250-355 | 10 | 0.94 | -1.54 | 103 | 20120227 |
| VM19-110 | 378 | <i>G. ruber</i> | 250-355 | 10 | 0.68 | -1.35 | 104 | 20120227 |
| VM19-110 | 382 | <i>G. ruber</i> | 250-355 | 10 | 0.77 | -1.28 | 119 | 20120227 |
| VM19-110 | 382 | <i>G. ruber</i> | 250-355 | 10 | 0.70 | -1.42 | 110 | 20120227 |
| VM19-110 | 386 | <i>G. ruber</i> | 250-355 | 10 | 0.98 | -1.39 | 114 | 20120227 |

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| VM19-110 | 208 | <i>G. ruber</i> | 250-355 | 10 | 0.49 | -1.40 | 120 | 20120326 |
| VM19-110 | 208 | <i>G. ruber</i> | 250-355 | 10 | 0.46 | -1.28 | 116 | 20120326 |
| VM19-110 | 213 | <i>G. ruber</i> | 250-355 | 10 | 0.40 | -1.34 | 125 | 20120326 |
| VM19-110 | 213 | <i>G. ruber</i> | 250-355 | 10 | 0.44 | -1.33 | 122 | 20120326 |
| VM19-110 | 216 | <i>G. ruber</i> | 250-355 | 10 | 0.50 | -1.50 | 125 | 20120326 |
| VM19-110 | 216 | <i>G. ruber</i> | 250-355 | 10 | 0.66 | -1.30 | 106 | 20120326 |
| VM19-110 | 221 | <i>G. ruber</i> | 250-355 | 10 | 0.67 | -1.41 | 114 | 20120326 |
| VM19-110 | 221 | <i>G. ruber</i> | 250-355 | 10 | 0.45 | -1.31 | 118 | 20120326 |
| VM19-110 | 224 | <i>G. ruber</i> | 250-355 | 10 | 0.26 | -1.36 | 114 | 20120326 |
| VM19-110 | 236 | <i>G. ruber</i> | 250-355 | 10 | 0.41 | -1.19 | 120 | 20120326 |
| VM19-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.03 | -0.18 | 45 | 20110627 |
| VM19-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.82 | -0.26 | 38 | 20110627 |
| VM19-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.89 | -0.33 | 49 | 20110627 |
| VM19-110 | 4 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.24 | -1.30 | 48 | 20110627 |
| VM19-110 | 4 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.95 | 0.03 | 49 | 20110627 |
| VM19-110 | 4 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.84 | 0.08 | 33 | 20110628 |

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| VM19-110 | 4 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.15 | -1.32 | 44 | 20110628 |
| VM19-110 | 4 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.01 | -1.15 | 41 | 20110628 |
| VM19-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.34 | 0.84 | 30 | 20111129 |
| VM19-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.11 | 0.97 | 24 | 20111129 |
| VM19-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.61 | -0.86 | 34 | 20111129 |
| VM19-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.01 | -0.12 | 41 | 20111129 |
| VM19-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.79 | 0.06 | 29 | 20111129 |
| VM19-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.79 | 0.05 | 27 | 20111129 |
| VM19-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.43 | 0.07 | 35 | 20111129 |
| VM19-110 | 4 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.46 | 2.55 | 119 | 20111118 |
| VM19-110 | 4 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.09 | 4.15 | 51 | 20111118 |
| VM19-110 | 4 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.44 | 2.60 | 60 | 20111118 |
| VM19-110 | 12 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.42 | 2.48 | 116 | 20111118 |
| VM19-110 | 12 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.19 | 3.29 | 145 | 20111118 |
| VM19-110 | 24 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.09 | 3.54 | 66 | 20111118 |
| VM19-110 | 36 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.10 | 3.62 | 68 | 20111118 |

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| VM19-110 | 12 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.03 | 3.69 | 28 | | 20111118 |
| VM19-110 | 20 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.09 | 3.60 | 28 | | 20111118 |
| VM19-110 | 20 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.24 | 2.96 | 20 | | 20111118 |
| VM19-110 | 28 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.01 | 3.89 | 26 | | 20111118 |
| VM19-110 | 28 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.17 | 4.23 | 23 | | 20111118 |
| VM19-110 | 28 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.14 | 4.03 | 21 | | 20111118 |
| VM19-110 | 32 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.01 | 3.63 | 41 | | 20111118 |
| GGC 49 | 1 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | -0.42 | 109 | LH | 20101019 |
| GGC 49 | 1 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | -0.96 | 119 | LH | 20101019 |
| GGC 49 | 1 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | -0.22 | 145 | LH | 20101019 |
| GGC 49 | 3 | <i>G. tumida</i> | 425-500 | 1 | 1.44 | 1.14 | 137 | | 20101019 |
| GGC 49 | 3 | <i>G. tumida</i> | 425-500 | 1 | 1.76 | -0.93 | 145 | | 20101019 |
| GGC 49 | 3 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -0.89 | 146 | | 20101019 |
| GGC 49 | 5 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | -0.59 | 147 | | 20101019 |
| GGC 49 | 5 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | 0.00 | 99 | | 20101019 |
| GGC 49 | 5 | <i>G. tumida</i> | 425-500 | 1 | 1.50 | -0.30 | 151 | | 20101019 |

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| GGC 49 | 7 | <i>G. tumida</i> | 425- 500 | 1 | 1.38 | 0.34 | 164 | | 20101019 |
| GGC 49 | 7 | <i>G. tumida</i> | 425- 500 | 1 | 2.09 | -0.80 | 128 | | 20101019 |
| GGC 49 | 9 | <i>G. tumida</i> | 425- 500 | 1 | 1.42 | 0.42 | 112 | | 20101019 |
| GGC 49 | 9 | <i>G. tumida</i> | 425- 500 | 1 | 1.93 | -0.45 | 146 | | 20101019 |
| GGC 49 | 9 | <i>G. tumida</i> | 425- 500 | 1 | 1.68 | -0.30 | 155 | | 20101019 |
| GGC 49 | 11 | <i>G. tumida</i> | 425- 500 | 1 | 1.54 | 0.20 | 159 | | 20101019 |
| GGC 49 | 11 | <i>G. tumida</i> | 425- 500 | 1 | 1.81 | -0.61 | 123 | | 20101019 |
| GGC 49 | 11 | <i>G. tumida</i> | 425- 500 | 1 | 1.63 | -0.20 | 169 | | 20101019 |
| GGC 49 | 12 | <i>G. tumida</i> | 425- 500 | 1 | 1.79 | -0.13 | 144 | | 20101019 |
| GGC 49 | 12 | <i>G. tumida</i> | 425- 500 | 1 | 1.96 | 1.53 | 118 | | 20101019 |
| GGC 49 | 13 | <i>G. tumida</i> | 425- 500 | 1 | 1.38 | 1.46 | 113 | | 20101019 |
| GGC 49 | 13 | <i>G. tumida</i> | 425- 500 | 1 | 1.82 | -0.80 | 140 | | 20101019 |
| GGC 49 | 13 | <i>G. tumida</i> | 425- 500 | 1 | 1.60 | 0.88 | 114 | | 20101019 |
| GGC 49 | 14 | <i>G. tumida</i> | 425- 500 | 1 | 2.04 | 0.49 | 146 | LGM | 20101020 |
| GGC 49 | 14 | <i>G. tumida</i> | 425- 500 | 1 | 2.08 | 0.82 | 106 | LGM | 20101020 |
| GGC 49 | 14 | <i>G. tumida</i> | 425- 500 | 1 | 2.00 | 0.99 | 151 | LGM | 20101020 |

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| GGC 49 | 15 | <i>G. tumida</i> | 425- 500 | 1 | 2.09 | -0.16 | 119 | LGM | 20101020 |
| GGC 49 | 15 | <i>G. tumida</i> | 425- 500 | 1 | 2.28 | 0.40 | 104 | LGM | 20101020 |
| GGC 49 | 15 | <i>G. tumida</i> | 425- 500 | 1 | 2.03 | 1.38 | 132 | LGM | 20101020 |
| GGC 49 | 16 | <i>G. tumida</i> | 425- 500 | 1 | 2.06 | 0.80 | 133 | LGM | 20101021 |
| GGC 49 | 16 | <i>G. tumida</i> | 425- 500 | 1 | 2.40 | -0.11 | 106 | LGM | 20101021 |
| GGC 49 | 16 | <i>G. tumida</i> | 425- 500 | 1 | 2.04 | 0.81 | 99 | LGM | 20101021 |
| GGC 49 | 17 | <i>G. tumida</i> | 425- 500 | 1 | 1.77 | 1.39 | 127 | LGM | 20101021 |
| GGC 49 | 17 | <i>G. tumida</i> | 425- 500 | 1 | 2.13 | 0.19 | 115 | LGM | 20101021 |
| GGC 49 | 17 | <i>G. tumida</i> | 425- 500 | 1 | 1.82 | 1.29 | 117 | LGM | 20101021 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 1.53 | -0.36 | 95 | | 20101021 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 1.92 | 0.69 | 112 | | 20101021 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 1.78 | 1.15 | 113 | | 20101021 |
| GGC 49 | 23 | <i>G. tumida</i> | 425- 500 | 1 | 2.28 | -0.46 | 105 | | 20101021 |
| GGC 49 | 23 | <i>G. tumida</i> | 425- 500 | 1 | 2.35 | 0.12 | 113 | | 20101021 |
| GGC 49 | 23 | <i>G. tumida</i> | 425- 500 | 1 | 2.43 | 0.02 | 131 | | 20101021 |
| GGC 49 | 24 | <i>G. tumida</i> | 425- 500 | 1 | 1.82 | 1.51 | 103 | | 20101021 |

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| GGC 49 | 24 | <i>G. tumida</i> | 425- 500 | 1 | 2.03 | 1.47 | 133 | 20101021 |
| GGC 49 | 24 | <i>G. tumida</i> | 425- 500 | 1 | 2.03 | 1.62 | 97 | 20101021 |
| GGC 49 | 25 | <i>G. tumida</i> | 425- 500 | 1 | 2.04 | 0.08 | 118 | 20101021 |
| GGC 49 | 25 | <i>G. tumida</i> | 425- 500 | 1 | 2.04 | -0.24 | 110 | 20101021 |
| GGC 49 | 25 | <i>G. tumida</i> | 425- 500 | 1 | 2.66 | 0.34 | 104 | 20101021 |
| GGC 49 | 26 | <i>G. tumida</i> | 425- 500 | 1 | 2.08 | 0.79 | 124 | 20101021 |
| GGC 49 | 26 | <i>G. tumida</i> | 425- 500 | 1 | 2.32 | -0.54 | 134 | 20101021 |
| GGC 49 | 26 | <i>G. tumida</i> | 425- 500 | 1 | 1.97 | 0.76 | 99 | 20101021 |
| GGC 49 | 27 | <i>G. tumida</i> | 425- 500 | 1 | 2.13 | 0.53 | 106 | 20101021 |
| GGC 49 | 27 | <i>G. tumida</i> | 425- 500 | 1 | 2.35 | 0.37 | 114 | 20101021 |
| GGC 49 | 27 | <i>G. tumida</i> | 425- 500 | 1 | 2.12 | 0.39 | 129 | 20101021 |
| GGC 49 | 29 | <i>G. tumida</i> | 425- 500 | 1 | 1.94 | 0.12 | 102 | 20101025 |
| GGC 49 | 29 | <i>G. tumida</i> | 425- 500 | 1 | 1.70 | 1.70 | 101 | 20101025 |
| GGC 49 | 29 | <i>G. tumida</i> | 425- 500 | 1 | 1.96 | 0.71 | 125 | 20101025 |
| GGC 49 | 29 | <i>G. tumida</i> | 425- 500 | 1 | 1.95 | 0.73 | 117 | 20101025 |
| GGC 49 | 29 | <i>G. tumida</i> | 425- 500 | 1 | 2.19 | 0.00 | 136 | 20101025 |

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| GGC 49 | 27 | <i>G. tumida</i> | 425- 500 | 1 | 2.26 | 0.84 | 112 | 20101025 |
| GGC 49 | 27 | <i>G. tumida</i> | 425- 500 | 1 | 2.07 | 1.62 | 111 | 20101025 |
| GGC 49 | 27 | <i>G. tumida</i> | 425- 500 | 1 | 2.03 | -0.02 | 133 | 20101025 |
| GGC 49 | 26 | <i>G. tumida</i> | 425- 500 | 1 | 1.93 | 0.33 | 156 | 20101025 |
| GGC 49 | 26 | <i>G. tumida</i> | 425- 500 | 1 | 2.37 | 0.33 | 149 | 20101025 |
| GGC 49 | 26 | <i>G. tumida</i> | 425- 500 | 1 | 1.81 | 1.43 | 120 | 20101025 |
| GGC 49 | 25 | <i>G. tumida</i> | 425- 500 | 1 | 2.16 | 1.44 | 130 | 20101025 |
| GGC 49 | 25 | <i>G. tumida</i> | 425- 500 | 1 | 2.03 | -0.14 | 111 | 20101025 |
| GGC 49 | 25 | <i>G. tumida</i> | 425- 500 | 1 | 2.06 | 0.11 | 109 | 20101025 |
| GGC 49 | 24 | <i>G. tumida</i> | 425- 500 | 1 | 2.24 | 0.63 | 115 | 20101025 |
| GGC 49 | 24 | <i>G. tumida</i> | 425- 500 | 1 | 2.33 | 0.41 | 116 | 20101025 |
| GGC 49 | 24 | <i>G. tumida</i> | 425- 500 | 1 | 2.06 | -0.03 | 114 | 20101025 |
| GGC 49 | 23 | <i>G. tumida</i> | 425- 500 | 1 | 2.08 | 1.05 | 136 | 20101025 |
| GGC 49 | 23 | <i>G. tumida</i> | 425- 500 | 1 | 2.02 | 0.39 | 128 | 20101025 |
| GGC 49 | 23 | <i>G. tumida</i> | 425- 500 | 1 | 2.48 | -0.43 | 116 | 20101025 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 1.88 | 1.09 | 118 | 20101025 |

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| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 2.13 | 1.07 | 105 | | 20101025 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 2.00 | 0.19 | 96 | | 20101025 |
| GGC 49 | 17 | <i>G. tumida</i> | 425- 500 | 1 | 1.85 | 0.53 | 102 | LGM | 20101026 |
| GGC 49 | 17 | <i>G. tumida</i> | 425- 500 | 1 | 1.81 | -0.54 | 119 | LGM | 20101026 |
| GGC 49 | 17 | <i>G. tumida</i> | 425- 500 | 1 | 2.24 | 0.28 | 128 | LGM | 20101026 |
| GGC 49 | 17 | <i>G. tumida</i> | 425- 500 | 1 | 2.27 | 1.57 | 131 | LGM | 20101026 |
| GGC 49 | 17 | <i>G. tumida</i> | 425- 500 | 1 | 2.22 | 0.72 | 107 | LGM | 20101026 |
| GGC 49 | 17 | <i>G. tumida</i> | 425- 500 | 1 | 2.06 | 0.37 | 102 | LGM | 20101026 |
| GGC 49 | 17 | <i>G. tumida</i> | 425- 500 | 1 | 2.11 | 0.75 | 126 | LGM | 20101026 |
| GGC 49 | 17 | <i>G. tumida</i> | 425- 500 | 1 | 1.89 | 1.23 | 82 | LGM | 20101026 |
| GGC 49 | 16 | <i>G. tumida</i> | 425- 500 | 1 | 2.29 | 0.16 | 105 | LGM | 20101026 |
| GGC 49 | 16 | <i>G. tumida</i> | 425- 500 | 1 | 1.82 | 1.01 | 82 | LGM | 20101026 |
| GGC 49 | 16 | <i>G. tumida</i> | 425- 500 | 1 | 1.82 | 1.26 | 117 | LGM | 20101026 |
| GGC 49 | 16 | <i>G. tumida</i> | 425- 500 | 1 | 2.00 | 0.89 | 111 | LGM | 20101026 |
| GGC 49 | 16 | <i>G. tumida</i> | 425- 500 | 1 | 2.31 | 0.65 | 95 | LGM | 20101026 |
| GGC 49 | 16 | <i>G. tumida</i> | 425- 500 | 1 | 2.31 | -0.14 | 119 | LGM | 20101026 |

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|-----------|----|------------------|-------------|---|------|-------|-----|-----|----------|
| GGC 49 | 16 | <i>G. tumida</i> | 425- 500 | 1 | 1.96 | 0.30 | 103 | LGM | 20101026 |
| GGC 49 | 16 | <i>G. tumida</i> | 425- 500 | 1 | 1.79 | 1.57 | 105 | LGM | 20101026 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 1.98 | 1.20 | 133 | | 20101026 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 2.21 | -0.17 | 106 | | 20101026 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 2.44 | 0.34 | 116 | | 20101026 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 1.70 | 1.36 | 102 | | 20101026 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 2.08 | 1.13 | 131 | | 20101026 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 2.01 | 0.74 | 103 | | 20101026 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 2.33 | 0.39 | 123 | | 20101026 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 1.62 | 1.79 | 122 | | 20101026 |
| GGC 49 | 1 | <i>G. tumida</i> | 425- 500 | 1 | 1.92 | -0.43 | 171 | LH | 20101102 |
| GGC 49 | 1 | <i>G. tumida</i> | 425- 500 | 1 | 1.76 | 0.01 | 130 | LH | 20101102 |
| GGC 49 | 1 | <i>G. tumida</i> | 425- 500 | 1 | 1.81 | -0.18 | 126 | LH | 20101102 |
| GGC 49 | 1 | <i>G. tumida</i> | 425- 500 | 1 | 1.86 | -0.27 | 150 | LH | 20101102 |
| GGC 49 | 1 | <i>G. tumida</i> | 425- 500 | 1 | 1.65 | -0.37 | 105 | LH | 20101102 |
| GGC 49 | 1 | <i>G. tumida</i> | 425- 500 | 1 | 1.61 | 0.13 | 145 | LH | 20101102 |

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|-----------|---|------------------|-------------|---|------|-------|-----|----|----------|
| GGC 49 | 1 | <i>G. tumida</i> | 425- 500 | 1 | 1.72 | -0.42 | 159 | LH | 20101102 |
| GGC 49 | 3 | <i>G. tumida</i> | 425- 500 | 1 | 1.85 | -0.74 | 135 | | 20101102 |
| GGC 49 | 3 | <i>G. tumida</i> | 425- 500 | 1 | 1.89 | -0.34 | 146 | | 20101102 |
| GGC 49 | 3 | <i>G. tumida</i> | 425- 500 | 1 | 1.75 | -0.65 | 132 | | 20101102 |
| GGC 49 | 3 | <i>G. tumida</i> | 425- 500 | 1 | 1.64 | -0.04 | 127 | | 20101102 |
| GGC 49 | 3 | <i>G. tumida</i> | 425- 500 | 1 | 1.79 | -0.65 | 133 | | 20101102 |
| GGC 49 | 3 | <i>G. tumida</i> | 425- 500 | 1 | 1.52 | -0.20 | 161 | | 20101102 |
| GGC 49 | 3 | <i>G. tumida</i> | 425- 500 | 1 | 1.73 | -0.01 | 136 | | 20101102 |
| GGC 49 | 3 | <i>G. tumida</i> | 425- 500 | 1 | 1.75 | -1.09 | 141 | | 20101102 |
| GGC 49 | 5 | <i>G. tumida</i> | 425- 500 | 1 | 1.72 | -0.33 | 134 | | 20101102 |
| GGC 49 | 5 | <i>G. tumida</i> | 425- 500 | 1 | 1.80 | -0.58 | 138 | | 20101102 |
| GGC 49 | 5 | <i>G. tumida</i> | 425- 500 | 1 | 1.97 | -0.84 | 138 | | 20101102 |
| GGC 49 | 5 | <i>G. tumida</i> | 425- 500 | 1 | 1.59 | -0.71 | 158 | | 20101102 |
| GGC 49 | 5 | <i>G. tumida</i> | 425- 500 | 1 | 1.90 | -0.72 | 127 | | 20101102 |
| GGC 49 | 5 | <i>G. tumida</i> | 425- 500 | 1 | 1.75 | -0.18 | 132 | | 20101102 |
| GGC 49 | 5 | <i>G. tumida</i> | 425- 500 | 1 | 1.69 | -1.01 | 135 | | 20101102 |

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|-----------|----|------------------|-------------|---|------|-------|-----|-----|----------|
| GGC 49 | 5 | <i>G. tumida</i> | 425- 500 | 1 | 1.36 | 0.51 | 133 | | 20101102 |
| GGC 49 | 7 | <i>G. tumida</i> | 425- 500 | 1 | 1.91 | -0.12 | 132 | | 20101103 |
| GGC 49 | 7 | <i>G. tumida</i> | 425- 500 | 1 | 2.11 | -0.96 | 133 | | 20101103 |
| GGC 49 | 7 | <i>G. tumida</i> | 425- 500 | 1 | 1.55 | 0.34 | 120 | | 20101103 |
| GGC 49 | 7 | <i>G. tumida</i> | 425- 500 | 1 | 1.89 | -0.93 | 138 | | 20101103 |
| GGC 49 | 7 | <i>G. tumida</i> | 425- 500 | 1 | 1.57 | 0.24 | 145 | | 20101103 |
| GGC 49 | 7 | <i>G. tumida</i> | 425- 500 | 1 | 1.82 | -0.32 | 117 | | 20101103 |
| GGC 49 | 7 | <i>G. tumida</i> | 425- 500 | 1 | 2.10 | 0.51 | 100 | | 20101103 |
| GGC 49 | 7 | <i>G. tumida</i> | 425- 500 | 1 | 2.16 | 0.92 | 114 | | 20101103 |
| GGC 49 | 14 | <i>G. tumida</i> | 425- 500 | 1 | 2.01 | 1.21 | 140 | LGM | 20101103 |
| GGC 49 | 14 | <i>G. tumida</i> | 425- 500 | 1 | 2.14 | 1.22 | 142 | LGM | 20101103 |
| GGC 49 | 14 | <i>G. tumida</i> | 425- 500 | 1 | 2.36 | 0.77 | 115 | LGM | 20101103 |
| GGC 49 | 14 | <i>G. tumida</i> | 425- 500 | 1 | 2.44 | 0.03 | 114 | LGM | 20101103 |
| GGC 49 | 14 | <i>G. tumida</i> | 425- 500 | 1 | 2.20 | 0.64 | 104 | LGM | 20101103 |
| GGC 49 | 14 | <i>G. tumida</i> | 425- 500 | 1 | 1.95 | 0.68 | 115 | LGM | 20101103 |
| GGC 49 | 14 | <i>G. tumida</i> | 425- 500 | 1 | 2.31 | 0.42 | 92 | LGM | 20101103 |

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|-----------|----|------------------|-------------|---|------|-------|-----|-----|----------|
| GGC 49 | 14 | <i>G. tumida</i> | 425- 500 | 1 | 2.22 | 0.19 | 112 | LGM | 20101103 |
| GGC 49 | 15 | <i>G. tumida</i> | 425- 500 | 1 | 2.52 | 0.15 | 134 | LGM | 20101103 |
| GGC 49 | 15 | <i>G. tumida</i> | 425- 500 | 1 | 2.07 | 0.37 | 101 | LGM | 20101103 |
| GGC 49 | 15 | <i>G. tumida</i> | 425- 500 | 1 | 1.81 | 1.61 | 111 | LGM | 20101103 |
| GGC 49 | 15 | <i>G. tumida</i> | 425- 500 | 1 | 2.54 | 0.20 | 122 | LGM | 20101103 |
| GGC 49 | 15 | <i>G. tumida</i> | 425- 500 | 1 | 1.87 | 1.67 | 83 | LGM | 20101103 |
| GGC 49 | 15 | <i>G. tumida</i> | 425- 500 | 1 | 1.97 | -0.11 | 101 | LGM | 20101103 |
| GGC 49 | 15 | <i>G. tumida</i> | 425- 500 | 1 | 2.08 | 1.55 | 93 | LGM | 20101103 |
| GGC 49 | 15 | <i>G. tumida</i> | 425- 500 | 1 | 1.89 | 1.65 | 102 | LGM | 20101103 |
| GGC 49 | 13 | <i>G. tumida</i> | 425- 500 | 1 | 1.92 | 1.49 | 124 | | 20110718 |
| GGC 49 | 13 | <i>G. tumida</i> | 425- 500 | 1 | 1.94 | 1.29 | 114 | | 20110718 |
| GGC 49 | 14 | <i>G. tumida</i> | 425- 500 | 1 | 1.96 | 1.10 | 122 | LGM | 20110718 |
| GGC 49 | 14 | <i>G. tumida</i> | 425- 500 | 1 | 2.41 | -0.12 | 99 | LGM | 20110718 |
| GGC 49 | 14 | <i>G. tumida</i> | 425- 500 | 1 | 1.91 | 1.49 | 91 | LGM | 20110718 |
| GGC 49 | 15 | <i>G. tumida</i> | 425- 500 | 1 | 1.86 | 1.17 | 115 | LGM | 20110718 |
| GGC 49 | 15 | <i>G. tumida</i> | 425- 500 | 1 | 2.32 | 0.19 | 93 | LGM | 20110718 |

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|-----------|----|------------------|-------------|---|------|------|-----|-----|----------|
| GGC 49 | 15 | <i>G. tumida</i> | 425- 500 | 1 | 1.79 | 1.64 | 97 | LGM | 20110718 |
| GGC 49 | 15 | <i>G. tumida</i> | 425- 500 | 1 | 2.46 | 0.57 | 90 | LGM | 20110718 |
| GGC 49 | 16 | <i>G. tumida</i> | 425- 500 | 1 | 2.33 | 0.66 | 124 | LGM | 20110718 |
| GGC 49 | 16 | <i>G. tumida</i> | 425- 500 | 1 | 2.51 | 0.24 | 103 | LGM | 20110718 |
| GGC 49 | 16 | <i>G. tumida</i> | 425- 500 | 1 | 1.99 | 1.13 | 110 | LGM | 20110718 |
| GGC 49 | 16 | <i>G. tumida</i> | 425- 500 | 1 | 2.29 | 0.12 | 122 | LGM | 20110718 |
| GGC 49 | 16 | <i>G. tumida</i> | 425- 500 | 1 | 2.35 | 0.64 | 116 | LGM | 20110718 |
| GGC 49 | 17 | <i>G. tumida</i> | 425- 500 | 1 | 1.73 | 1.61 | 102 | LGM | 20110718 |
| GGC 49 | 17 | <i>G. tumida</i> | 425- 500 | 1 | 2.45 | 0.24 | 101 | LGM | 20110718 |
| GGC 49 | 17 | <i>G. tumida</i> | 425- 500 | 1 | 2.48 | 0.20 | 79 | LGM | 20110718 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 2.26 | 0.79 | 104 | | 20110718 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 2.09 | 0.87 | 89 | | 20110718 |
| GGC 49 | 17 | <i>G. tumida</i> | 425- 500 | 1 | 2.36 | 0.43 | 86 | | 20110721 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 1.85 | 1.47 | 103 | | 20110721 |
| GGC 49 | 23 | <i>G. tumida</i> | 425- 500 | 1 | 1.95 | 1.96 | 79 | | 20110721 |
| GGC 49 | 23 | <i>G. tumida</i> | 425- 500 | 1 | 2.05 | 1.37 | 95 | | 20110721 |

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| GGC 49 | 23 | <i>G. tumida</i> | 425- 500 | 1 | 2.24 | 0.71 | 129 | | 20110721 |
| GGC 49 | 23 | <i>G. tumida</i> | 425- 500 | 1 | 2.20 | 1.23 | 111 | | 20110721 |
| GGC 49 | 1 | <i>G. tumida</i> | 425- 500 | 1 | 2.15 | -1.46 | 132 | LH | 20110721 |
| GGC 49 | 1 | <i>G. tumida</i> | 425- 500 | 1 | 1.65 | -0.34 | 141 | LH | 20110721 |
| GGC 49 | 1 | <i>G. tumida</i> | 425- 500 | 1 | 1.69 | 0.11 | 107 | LH | 20110721 |
| GGC 49 | 1 | <i>G. tumida</i> | 425- 500 | 1 | 1.75 | 0.20 | 151 | LH | 20110721 |
| GGC 49 | 1 | <i>G. tumida</i> | 425- 500 | 1 | 1.61 | 0.44 | 92 | LH | 20110721 |
| GGC 49 | 3 | <i>G. tumida</i> | 425- 500 | 1 | 2.41 | -1.10 | 128 | | 20110721 |
| GGC 49 | 3 | <i>G. tumida</i> | 425- 500 | 1 | 1.50 | -0.73 | 109 | | 20110721 |
| GGC 49 | 3 | <i>G. tumida</i> | 425- 500 | 1 | 2.01 | -0.74 | 139 | | 20110721 |
| GGC 49 | 3 | <i>G. tumida</i> | 425- 500 | 1 | 1.78 | -0.22 | 146 | | 20110721 |
| GGC 49 | 3 | <i>G. tumida</i> | 425- 500 | 1 | 1.65 | 0.59 | 102 | | 20110721 |
| GGC 49 | 5 | <i>G. tumida</i> | 425- 500 | 1 | 1.98 | -0.90 | 172 | | 20110721 |
| GGC 49 | 17 | <i>G. tumida</i> | 425- 500 | 1 | 2.00 | 0.28 | 119 | LGM | 20110810 |
| GGC 49 | 17 | <i>G. tumida</i> | 425- 500 | 1 | 1.65 | 1.82 | 101 | LGM | 20110810 |
| GGC 49 | 17 | <i>G. tumida</i> | 425- 500 | 1 | 1.84 | 0.77 | 95 | LGM | 20110810 |

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| GGC 49 | 17 | <i>G. tumida</i> | 425- 500 | 1 | 2.42 | 1.04 | 86 | LGM | 20110810 |
| GGC 49 | 17 | <i>G. tumida</i> | 425- 500 | 1 | 1.78 | 1.22 | 90 | LGM | 20110810 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 2.34 | -0.04 | 104 | | 20110810 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 2.53 | 0.46 | 96 | | 20110810 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 2.02 | 1.24 | 110 | | 20110810 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 2.18 | 0.74 | 73 | | 20110810 |
| GGC 49 | 19 | <i>G. tumida</i> | 425- 500 | 1 | 2.32 | 0.06 | 105 | | 20110810 |
| GGC 49 | 23 | <i>G. tumida</i> | 425- 500 | 1 | 2.14 | 1.32 | 133 | | 20110810 |
| GGC 49 | 23 | <i>G. tumida</i> | 425- 500 | 1 | 2.16 | 0.12 | 101 | | 20110810 |
| GGC 49 | 23 | <i>G. tumida</i> | 425- 500 | 1 | 2.32 | 0.91 | 108 | | 20110810 |
| GGC 49 | 23 | <i>G. tumida</i> | 425- 500 | 1 | 1.76 | 1.91 | 74 | | 20110810 |
| GGC 49 | 7 | <i>G. tumida</i> | 425- 500 | 1 | 1.91 | -1.09 | 109 | | 20110817 |
| GGC 49 | 9 | <i>G. tumida</i> | 425- 500 | 1 | 1.29 | 1.57 | 78 | | 20110817 |
| GGC 49 | 9 | <i>G. tumida</i> | 425- 500 | 1 | 1.66 | -0.51 | 129 | | 20110817 |
| GGC 49 | 9 | <i>G. tumida</i> | 425- 500 | 1 | 1.82 | 1.26 | 117 | | 20110817 |
| GGC 49 | 9 | <i>G. tumida</i> | 425- 500 | 1 | 1.44 | -0.31 | 121 | | 20110817 |

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| GGC 49 | 9 | <i>G. tumida</i> | 425- 500 | 1 | 2.13 | 0.11 | 91 | 20110817 |
| GGC 49 | 11 | <i>G. tumida</i> | 425- 500 | 1 | 1.49 | 1.37 | 88 | 20110817 |
| GGC 49 | 11 | <i>G. tumida</i> | 425- 500 | 1 | 2.34 | 0.98 | 106 | 20110817 |
| GGC 49 | 11 | <i>G. tumida</i> | 425- 500 | 1 | 2.00 | 0.65 | 120 | 20110817 |
| GGC 49 | 11 | <i>G. tumida</i> | 425- 500 | 1 | 1.69 | 1.32 | 114 | 20110817 |
| GGC 49 | 11 | <i>G. tumida</i> | 425- 500 | 1 | 1.80 | -0.24 | 137 | 20110817 |
| GGC 49 | 12 | <i>G. tumida</i> | 425- 500 | 1 | 2.30 | 1.20 | 95 | 20110817 |
| GGC 49 | 12 | <i>G. tumida</i> | 425- 500 | 1 | 1.74 | -0.69 | 140 | 20110817 |
| GGC 49 | 12 | <i>G. tumida</i> | 425- 500 | 1 | 1.82 | 0.17 | 151 | 20110817 |
| GGC 49 | 13 | <i>G. tumida</i> | 425- 500 | 1 | 1.43 | 0.72 | 127 | 20110817 |
| GGC 49 | 13 | <i>G. tumida</i> | 425- 500 | 1 | 1.75 | 0.35 | 107 | 20110817 |
| GGC 49 | 13 | <i>G. tumida</i> | 425- 500 | 1 | 1.86 | 0.92 | 111 | 20110817 |
| GGC 49 | 13 | <i>G. tumida</i> | 425- 500 | 1 | 2.15 | 1.05 | 77 | 20110817 |
| GGC 49 | 12 | <i>G. tumida</i> | 425- 500 | 1 | 2.03 | 0.76 | 96 | 20110817 |
| GGC 49 | 12 | <i>G. tumida</i> | 425- 500 | 1 | 1.32 | 1.05 | 110 | 20110817 |
| GGC 49 | 13 | <i>G. tumida</i> | 425- 500 | 1 | 2.19 | 0.71 | 98 | 20110817 |

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| GGC 49 | 14 | <i>G. tumida</i> | 425- 500 | 1 | 1.71 | 2.06 | 107 | LGM | 20110817 |
| GGC 49 | 14 | <i>G. tumida</i> | 425- 500 | 1 | 1.90 | -0.71 | 147 | LGM | 20110817 |
| GGC 49 | 14 | <i>G. tumida</i> | 425- 500 | 1 | 1.77 | 1.57 | 103 | LGM | 20110817 |
| GGC 49 | 15 | <i>G. tumida</i> | 425- 500 | 1 | 1.70 | -0.38 | 120 | LGM | 20110818 |
| GGC 49 | 15 | <i>G. tumida</i> | 425- 500 | 1 | 1.52 | 1.15 | 94 | LGM | 20110818 |
| GGC 49 | 15 | <i>G. tumida</i> | 425- 500 | 1 | 1.88 | 1.57 | 94 | LGM | 20110818 |
| GGC 49 | 16 | <i>G. tumida</i> | 425- 500 | 1 | 2.04 | 1.39 | 94 | LGM | 20110818 |
| GGC 49 | 16 | <i>G. tumida</i> | 425- 500 | 1 | 2.15 | 1.46 | 94 | LGM | 20110818 |
| GGC 49 | 16 | <i>G. tumida</i> | 425- 500 | 1 | 2.01 | 0.47 | 90 | LGM | 20110818 |
| GGC 49 | 16 | <i>G. tumida</i> | 425- 500 | 1 | 2.00 | 0.76 | 98 | LGM | 20110818 |
| GGC 49 | 14 | <i>G. tumida</i> | 425- 500 | 1 | 1.95 | 1.08 | 119 | LGM | 20110818 |
| GGC 49 | 14 | <i>G. tumida</i> | 425- 500 | 1 | 1.48 | 2.08 | 104 | LGM | 20110818 |
| GGC 49 | 15 | <i>G. tumida</i> | 425- 500 | 1 | 2.02 | 1.32 | 117 | LGM | 20110818 |
| GGC 49 | 15 | <i>G. tumida</i> | 425- 500 | 1 | 1.95 | 1.22 | 99 | LGM | 20110818 |
| GGC 49 | 5 | <i>G. tumida</i> | 425- 500 | 1 | 1.49 | -0.91 | 103 | | 20110818 |
| GGC 49 | 5 | <i>G. tumida</i> | 425- 500 | 1 | 1.94 | 0.18 | 105 | | 20110818 |

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| GGC 49 | 5 | <i>G. tumida</i> | 425- 500 | 1 | 1.72 | -0.04 | 117 | | 20110818 |
| GGC 49 | 5 | <i>G. tumida</i> | 425- 500 | 1 | 1.50 | -0.41 | 127 | | 20110818 |
| GGC 49 | 7 | <i>G. tumida</i> | 425- 500 | 1 | 1.86 | -0.28 | 163 | | 20110818 |
| GGC 49 | 7 | <i>G. tumida</i> | 425- 500 | 1 | 1.96 | -1.34 | 141 | | 20110818 |
| GGC 49 | 7 | <i>G. tumida</i> | 425- 500 | 1 | 1.87 | -0.67 | 129 | | 20110818 |
| GGC 49 | 7 | <i>G. tumida</i> | 425- 500 | 1 | 1.49 | -0.30 | 136 | | 20110818 |
| GGC 49 | 88 | <i>G. tumida</i> | 425- 500 | 1 | 1.80 | -1.05 | 110 | MIS 5e | 20120417 |
| GGC 49 | 88 | <i>G. tumida</i> | 425- 500 | 1 | 2.30 | -0.36 | 93 | MIS 5e | 20120417 |
| GGC 49 | 88 | <i>G. tumida</i> | 425- 500 | 1 | 1.66 | -0.23 | 91 | MIS 5e | 20120417 |
| GGC 49 | 88 | <i>G. tumida</i> | 425- 500 | 1 | 1.92 | -0.05 | 121 | MIS 5e | 20120417 |
| GGC 49 | 88 | <i>G. tumida</i> | 425- 500 | 1 | 1.89 | -0.77 | 104 | MIS 5e | 20120417 |
| GGC 49 | 92 | <i>G. tumida</i> | 425- 500 | 1 | 1.77 | -1.02 | 147 | MIS 5e | 20120417 |
| GGC 49 | 92 | <i>G. tumida</i> | 425- 500 | 1 | 1.66 | 0.04 | 113 | MIS 5e | 20120417 |
| GGC 49 | 92 | <i>G. tumida</i> | 425- 500 | 1 | 1.24 | -0.04 | 106 | MIS 5e | 20120417 |
| GGC 49 | 92 | <i>G. tumida</i> | 425- 500 | 1 | 1.94 | 0.07 | 127 | MIS 5e | 20120417 |
| GGC 49 | 92 | <i>G. tumida</i> | 425- 500 | 1 | 1.82 | 0.28 | 120 | MIS 5e | 20120417 |

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|-----------|-----|------------------|-------------|---|------|-------|-----|-----------|----------|
| GGC 49 | 97 | <i>G. tumida</i> | 425- 500 | 1 | 1.93 | -0.73 | 129 | MIS 5e | 20120417 |
| GGC 49 | 97 | <i>G. tumida</i> | 425- 500 | 1 | 1.86 | 0.46 | 124 | MIS 5e | 20120417 |
| GGC 49 | 97 | <i>G. tumida</i> | 425- 500 | 1 | 1.49 | -0.23 | 141 | MIS 5e | 20120417 |
| GGC 49 | 97 | <i>G. tumida</i> | 425- 500 | 1 | 1.75 | -1.09 | 129 | MIS 5e | 20120417 |
| GGC 49 | 97 | <i>G. tumida</i> | 425- 500 | 1 | 1.46 | 1.03 | 120 | MIS 5e | 20120417 |
| GGC 49 | 100 | <i>G. tumida</i> | 425- 500 | 1 | 1.79 | 0.46 | 103 | MIS 5e | 20120417 |
| GGC 49 | 100 | <i>G. tumida</i> | 425- 500 | 1 | 1.88 | -0.74 | 130 | MIS 5e | 20120417 |
| GGC 49 | 100 | <i>G. tumida</i> | 425- 500 | 1 | 1.76 | 0.03 | 111 | MIS 5e | 20120417 |
| GGC 49 | 100 | <i>G. tumida</i> | 425- 500 | 1 | 1.69 | 0.57 | 131 | MIS 5e | 20120417 |
| GGC 49 | 100 | <i>G. tumida</i> | 425- 500 | 1 | 1.67 | -0.11 | 130 | MIS 5e | 20120417 |
| GGC 49 | 104 | <i>G. tumida</i> | 425- 500 | 1 | 1.63 | -0.93 | 145 | MIS 5e | 20120417 |
| GGC 49 | 104 | <i>G. tumida</i> | 425- 500 | 1 | 2.11 | -0.03 | 106 | MIS 5e | 20120417 |
| GGC 49 | 104 | <i>G. tumida</i> | 425- 500 | 1 | 1.40 | 0.30 | 97 | MIS 5e | 20120417 |
| GGC 49 | 104 | <i>G. tumida</i> | 425- 500 | 1 | 1.62 | -0.61 | 128 | MIS 5e | 20120417 |
| GGC 49 | 104 | <i>G. tumida</i> | 425- 500 | 1 | 1.75 | 0.16 | 121 | MIS 5e | 20120417 |
| GGC 49 | 108 | <i>G. tumida</i> | 425- 500 | 1 | 1.72 | -0.14 | 146 | | 20120426 |

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|-----------|-----|------------------|-------------|---|------|-------|-----|----------|----------|
| GGC 49 | 108 | <i>G. tumida</i> | 425- 500 | 1 | 1.75 | 0.21 | 151 | | 20120426 |
| GGC 49 | 108 | <i>G. tumida</i> | 425- 500 | 1 | 1.69 | 1.30 | 146 | | 20120426 |
| GGC 49 | 108 | <i>G. tumida</i> | 425- 500 | 1 | 1.96 | 0.09 | 135 | | 20120426 |
| GGC 49 | 108 | <i>G. tumida</i> | 425- 500 | 1 | 1.72 | 0.73 | 119 | | 20120426 |
| GGC 49 | 112 | <i>G. tumida</i> | 425- 500 | 1 | 1.83 | 0.74 | 155 | MIS 6 | 20120426 |
| GGC 49 | 112 | <i>G. tumida</i> | 425- 500 | 1 | 1.59 | 0.18 | 136 | MIS 6 | 20120426 |
| GGC 49 | 112 | <i>G. tumida</i> | 425- 500 | 1 | 1.68 | 1.82 | 134 | MIS 6 | 20120426 |
| GGC 49 | 112 | <i>G. tumida</i> | 425- 500 | 1 | 1.81 | 0.92 | 147 | MIS 6 | 20120426 |
| GGC 49 | 112 | <i>G. tumida</i> | 425- 500 | 1 | 1.74 | 1.16 | 128 | MIS 6 | 20120426 |
| GGC 49 | 117 | <i>G. tumida</i> | 425- 500 | 1 | 1.81 | 0.70 | 148 | MIS 6 | 20120426 |
| GGC 49 | 117 | <i>G. tumida</i> | 425- 500 | 1 | 1.75 | 0.22 | 128 | MIS 6 | 20120426 |
| GGC 49 | 117 | <i>G. tumida</i> | 425- 500 | 1 | 1.64 | 0.98 | 108 | MIS 6 | 20120426 |
| GGC 49 | 117 | <i>G. tumida</i> | 425- 500 | 1 | 1.40 | 0.93 | 131 | MIS 6 | 20120426 |
| GGC 49 | 117 | <i>G. tumida</i> | 425- 500 | 1 | 1.81 | 0.26 | 107 | MIS 6 | 20120426 |
| GGC 49 | 122 | <i>G. tumida</i> | 425- 500 | 1 | 1.81 | -0.12 | 112 | MIS 6 | 20120426 |
| GGC 49 | 122 | <i>G. tumida</i> | 425- 500 | 1 | 1.98 | 0.47 | 145 | MIS 6 | 20120426 |

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|-----------|-----|------------------|-------------|----|------|-------|-----|----------|----------|
| GGC 49 | 122 | <i>G. tumida</i> | 425- 500 | 1 | 1.53 | 0.45 | 145 | MIS 6 | 20120426 |
| GGC 49 | 122 | <i>G. tumida</i> | 425- 500 | 1 | 1.95 | 0.09 | 141 | MIS 6 | 20120426 |
| GGC 49 | 122 | <i>G. tumida</i> | 425- 500 | 1 | 1.88 | 0.71 | 149 | MIS 6 | 20120426 |
| GGC 49 | 123 | <i>G. tumida</i> | 425- 500 | 1 | 1.89 | -0.08 | 150 | MIS 6 | 20120426 |
| GGC 49 | 123 | <i>G. tumida</i> | 425- 500 | 1 | 1.72 | 0.35 | 158 | MIS 6 | 20120426 |
| GGC 49 | 123 | <i>G. tumida</i> | 425- 500 | 1 | 1.76 | 0.60 | 130 | MIS 6 | 20120426 |
| GGC 49 | 123 | <i>G. tumida</i> | 425- 500 | 1 | 1.45 | 1.50 | 133 | MIS 6 | 20120426 |
| GGC 49 | 123 | <i>G. tumida</i> | 425- 500 | 1 | 1.89 | 0.29 | 129 | MIS 6 | 20120426 |
| GGC 49 | 1 | <i>G. ruber</i> | 250- 355 | 10 | 1.26 | -2.27 | 118 | LH | 20101020 |
| GGC 49 | 3 | <i>G. ruber</i> | 250- 355 | 10 | 1.45 | -2.28 | 133 | | 20101020 |
| GGC 49 | 5 | <i>G. ruber</i> | 250- 355 | 10 | 1.17 | -1.85 | 135 | | 20101020 |
| GGC 49 | 7 | <i>G. ruber</i> | 250- 355 | 10 | 1.19 | -1.86 | 148 | | 20101020 |
| GGC 49 | 9 | <i>G. ruber</i> | 250- 355 | 10 | 1.21 | -1.85 | 147 | | 20101020 |
| GGC 49 | 11 | <i>G. ruber</i> | 250- 355 | 10 | 1.12 | -1.85 | 129 | | 20101020 |
| GGC 49 | 12 | <i>G. ruber</i> | 250- 355 | 10 | 1.37 | -1.54 | 142 | | 20101020 |
| GGC 49 | 13 | <i>G. ruber</i> | 250- 355 | 10 | 1.08 | -1.73 | 153 | | 20101020 |

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|-----------|----|-----------------|-------------|----|------|-------|-----|-----|----------|
| GGC 49 | 14 | <i>G. ruber</i> | 250- 355 | 10 | 1.01 | -1.33 | 126 | LGM | 20101020 |
| GGC 49 | 16 | <i>G. ruber</i> | 250- 355 | 10 | 1.27 | -1.16 | 127 | LGM | 20101020 |
| GGC 49 | 17 | <i>G. ruber</i> | 250- 355 | 10 | 1.27 | -1.06 | 133 | LGM | 20101020 |
| GGC 49 | 19 | <i>G. ruber</i> | 250- 355 | 10 | 1.59 | -1.08 | 121 | | 20101020 |
| GGC 49 | 23 | <i>G. ruber</i> | 250- 355 | 10 | 1.26 | -1.13 | 108 | | 20101020 |
| GGC 49 | 24 | <i>G. ruber</i> | 250- 355 | 10 | 1.15 | -1.48 | 116 | | 20101020 |
| GGC 49 | 25 | <i>G. ruber</i> | 250- 355 | 10 | 1.51 | -1.27 | 137 | | 20101020 |
| GGC 49 | 26 | <i>G. ruber</i> | 250- 355 | 10 | 1.15 | -1.26 | 128 | | 20101020 |
| GGC 49 | 27 | <i>G. ruber</i> | 250- 355 | 10 | 1.02 | -1.30 | 129 | | 20101020 |
| GGC 49 | 29 | <i>G. ruber</i> | 250- 355 | 10 | 1.31 | -1.22 | 116 | | 20101020 |
| GGC 49 | 32 | <i>G. ruber</i> | 250- 355 | 10 | 1.14 | -1.36 | 131 | | 20110913 |
| GGC 49 | 32 | <i>G. ruber</i> | 250- 355 | 10 | 1.13 | -1.48 | 122 | | 20110913 |
| GGC 49 | 36 | <i>G. ruber</i> | 250- 355 | 10 | 1.54 | -1.43 | 125 | | 20110913 |
| GGC 49 | 36 | <i>G. ruber</i> | 250- 355 | 10 | 1.27 | -1.41 | 126 | | 20110913 |
| GGC 49 | 40 | <i>G. ruber</i> | 250- 355 | 10 | 1.13 | -1.43 | 119 | | 20110913 |
| GGC 49 | 40 | <i>G. ruber</i> | 250- 355 | 10 | 1.36 | -1.42 | 125 | | 20110913 |

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|-----------|----|-----------------|-------------|----|------|-------|-----|----------|
| GGC 49 | 44 | <i>G. ruber</i> | 250- 355 | 10 | 0.94 | -1.61 | 104 | 20110913 |
| GGC 49 | 44 | <i>G. ruber</i> | 250- 355 | 10 | 1.13 | -1.56 | 113 | 20110913 |
| GGC 49 | 48 | <i>G. ruber</i> | 250- 355 | 10 | 1.05 | -1.53 | 111 | 20110913 |
| GGC 49 | 48 | <i>G. ruber</i> | 250- 355 | 10 | 0.90 | -1.50 | 132 | 20110913 |
| GGC 49 | 52 | <i>G. ruber</i> | 250- 355 | 10 | 1.00 | -1.42 | 108 | 20110913 |
| GGC 49 | 52 | <i>G. ruber</i> | 250- 355 | 10 | 0.95 | -1.46 | 120 | 20110913 |
| GGC 49 | 56 | <i>G. ruber</i> | 250- 355 | 10 | 1.04 | -1.27 | 123 | 20110913 |
| GGC 49 | 56 | <i>G. ruber</i> | 250- 355 | 10 | 0.88 | -1.53 | 117 | 20110913 |
| GGC 49 | 60 | <i>G. ruber</i> | 250- 355 | 10 | 1.13 | -1.50 | 110 | 20110913 |
| GGC 49 | 60 | <i>G. ruber</i> | 250- 355 | 10 | 1.25 | -1.52 | 123 | 20110913 |
| GGC 49 | 65 | <i>G. ruber</i> | 250- 355 | 10 | 0.65 | -1.76 | 116 | 20110914 |
| GGC 49 | 65 | <i>G. ruber</i> | 250- 355 | 10 | 1.17 | -1.72 | 124 | 20110914 |
| GGC 49 | 69 | <i>G. ruber</i> | 250- 355 | 10 | 1.18 | -1.88 | 136 | 20110914 |
| GGC 49 | 69 | <i>G. ruber</i> | 250- 355 | 10 | 1.26 | -1.99 | 132 | 20110914 |
| GGC 49 | 72 | <i>G. ruber</i> | 250- 355 | 10 | 0.99 | -1.79 | 123 | 20110914 |
| GGC 49 | 72 | <i>G. ruber</i> | 250- 355 | 10 | 0.80 | -1.86 | 116 | 20110914 |

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|-----------|-----|-------------------------------|-------------|----|------|-------|-----|----------|
| GGC 49 | 76 | <i>G. ruber</i> | 250- 355 | 10 | 1.19 | -2.06 | 129 | 20110914 |
| GGC 49 | 76 | <i>G. ruber</i> | 250- 355 | 10 | 0.81 | -1.83 | 122 | 20110914 |
| GGC 49 | 80 | <i>G. ruber</i> | 250- 355 | 10 | 0.82 | -1.99 | 132 | 20110914 |
| GGC 49 | 80 | <i>G. ruber</i> | 250- 355 | 10 | 0.73 | -1.69 | 137 | 20110914 |
| GGC 49 | 85 | <i>G. ruber</i> | 250- 355 | 10 | 1.12 | -1.86 | 145 | 20110914 |
| GGC 49 | 85 | <i>G. ruber</i> | 250- 355 | 10 | 1.06 | -2.03 | 129 | 20110914 |
| GGC 49 | 88 | <i>G. ruber</i> | 250- 355 | 10 | 1.08 | -2.01 | 156 | 20110914 |
| GGC 49 | 88 | <i>G. ruber</i> | 250- 355 | 10 | 1.18 | -2.04 | 140 | 20110914 |
| GGC 49 | 92 | <i>G. ruber</i> | 250- 355 | 10 | 0.84 | -1.83 | 142 | 20110914 |
| GGC 49 | 92 | <i>G. ruber</i> | 250- 355 | 10 | 1.00 | -1.56 | 137 | 20110914 |
| GGC 49 | 97 | <i>G. ruber</i> | 250- 355 | 10 | 0.99 | -2.12 | 142 | 20110914 |
| GGC 49 | 97 | <i>G. ruber</i> | 250- 355 | 10 | 1.11 | -2.22 | 156 | 20110914 |
| GGC 49 | 100 | <i>G. ruber</i> | 250- 355 | 10 | 0.76 | -1.92 | 140 | 20110914 |
| GGC 49 | 100 | <i>G. ruber</i> | 250- 355 | 10 | 0.73 | -1.62 | 154 | 20110914 |
| GGC 49 | 104 | <i>G. ruber</i> | 250- 355 | 10 | 0.91 | -1.49 | 151 | 20110914 |
| GGC 49 | 14 | <i>P. obliquiloculata</i> | 355- 425 | 1 | 1.41 | 0.63 | 42 | 20110622 |

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|-----------|----|-------------------------------------|-------------|---|------|-------|----|----------|
| GGC 49 | 14 | <i>P.</i> <i>obliquiloculata</i> | 355- 425 | 1 | 1.65 | 0.01 | 44 | 20110622 |
| GGC 49 | 14 | <i>P.</i> <i>obliquiloculata</i> | 355- 425 | 1 | 1.48 | 0.81 | 37 | 20110622 |
| GGC 49 | 15 | <i>P.</i> <i>obliquiloculata</i> | 355- 425 | 1 | 1.46 | 0.12 | 39 | 20110622 |
| GGC 49 | 15 | <i>P.</i> <i>obliquiloculata</i> | 355- 425 | 1 | 1.41 | -0.56 | 41 | 20110622 |
| GGC 49 | 16 | <i>P.</i> <i>obliquiloculata</i> | 355- 425 | 1 | 1.20 | -0.01 | 42 | 20110622 |
| GGC 49 | 16 | <i>P.</i> <i>obliquiloculata</i> | 355- 425 | 1 | 1.40 | 0.85 | 36 | 20110622 |
| GGC 49 | 17 | <i>P.</i> <i>obliquiloculata</i> | 355- 425 | 1 | 1.40 | 0.22 | 33 | 20110622 |
| GGC 49 | 17 | <i>P.</i> <i>obliquiloculata</i> | 355- 425 | 1 | 1.63 | 0.27 | 33 | 20110622 |
| GGC 49 | 17 | <i>P.</i> <i>obliquiloculata</i> | 355- 425 | 1 | 1.37 | -0.40 | 41 | 20110622 |
| GGC 49 | 1 | <i>P.</i> <i>obliquiloculata</i> | 355- 425 | 1 | 1.17 | -1.60 | 56 | 20110627 |
| GGC 49 | 1 | <i>P.</i> <i>obliquiloculata</i> | 355- 425 | 1 | 1.47 | -1.37 | 57 | 20110627 |
| GGC 49 | 1 | <i>P.</i> <i>obliquiloculata</i> | 355- 425 | 1 | 1.61 | -1.28 | 37 | 20110627 |
| GGC 49 | 1 | <i>P.</i> <i>obliquiloculata</i> | 355- 425 | 1 | 1.30 | -1.62 | 60 | 20110627 |
| GGC 49 | 1 | <i>P.</i> <i>obliquiloculata</i> | 355- 425 | 1 | 1.20 | -0.83 | 67 | 20110627 |
| GGC 49 | 1 | <i>P.</i> <i>obliquiloculata</i> | 355- 425 | 1 | 1.01 | -1.31 | 34 | 20110628 |
| GGC 49 | 1 | <i>P.</i> <i>obliquiloculata</i> | 355- 425 | 1 | 0.98 | -1.16 | 46 | 20110628 |

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|-----------|----|-------------------------------|-------------|---|-------|-------|----|----------|
| GGC 49 | 1 | <i>P. obliquiloculata</i> | 355- 425 | 1 | 1.06 | -1.77 | 32 | 20110628 |
| GGC 49 | 1 | <i>P. obliquiloculata</i> | 355- 425 | 1 | 0.92 | -1.91 | 35 | 20110628 |
| GGC 49 | 1 | <i>P. obliquiloculata</i> | 355- 425 | 1 | 1.64 | -1.38 | 48 | 20110628 |
| GGC 49 | 1 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.11 | 4.12 | 30 | 20120507 |
| GGC 49 | 3 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.12 | 3.81 | 42 | 20120507 |
| GGC 49 | 3 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.06 | 3.79 | 34 | 20120507 |
| GGC 49 | 5 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.04 | 3.93 | 22 | 20120507 |
| GGC 49 | 7 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.10 | 3.47 | 32 | 20120507 |
| GGC 49 | 7 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.36 | 3.89 | 22 | 20120507 |
| GGC 49 | 9 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.17 | 4.02 | 41 | 20120507 |
| GGC 49 | 9 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.01 | 3.60 | 39 | 20120507 |
| GGC 49 | 9 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.14 | 2.95 | 40 | 20120507 |
| GGC 49 | 12 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.04 | 4.19 | 49 | 20120507 |
| GGC 49 | 12 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.14 | 4.10 | 35 | 20120507 |
| GGC 49 | 12 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.14 | 3.63 | 30 | 20120507 |
| GGC 49 | 13 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.08 | 3.89 | 30 | 20120507 |

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|-----------|----|----------------------------|------|---|-------|------|-----|----------|
| GGC 49 | 14 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.02 | 3.99 | 45 | 20120507 |
| GGC 49 | 14 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.05 | 4.13 | 43 | 20120507 |
| GGC 49 | 14 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.10 | 4.16 | 45 | 20120507 |
| GGC 49 | 16 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.29 | 4.12 | 38 | 20120507 |
| GGC 49 | 1 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.15 | 3.45 | 67 | 20120509 |
| GGC 49 | 3 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.11 | 3.92 | 61 | 20120509 |
| GGC 49 | 5 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.13 | 2.94 | 101 | 20120509 |
| GGC 49 | 5 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.40 | 2.32 | 66 | 20120509 |
| GGC 49 | 7 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.01 | 3.66 | 59 | 20120509 |
| GGC 49 | 11 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.01 | 3.47 | 66 | 20120509 |
| GGC 49 | 11 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.01 | 3.46 | 56 | 20120509 |
| GGC 49 | 13 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.08 | 3.94 | 59 | 20120509 |
| GGC 49 | 13 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.01 | 4.23 | 64 | 20120509 |
| GGC 49 | 15 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.08 | 4.06 | 69 | 20120509 |
| GGC 49 | 15 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.09 | 4.15 | 71 | 20120509 |
| GGC 49 | 17 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.09 | 4.32 | 167 | 20120509 |

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|-----------|----|----------------------------|------|---|-------|------|-----|----------|
| GGC 49 | 17 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.17 | 4.19 | 61 | 20120509 |
| GGC 49 | 17 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.05 | 3.99 | 68 | 20120509 |
| GGC 49 | 19 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.36 | 4.00 | 58 | 20120509 |
| GGC 49 | 23 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.11 | 4.22 | 62 | 20120509 |
| GGC 49 | 25 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.11 | 3.90 | 77 | 20120509 |
| GGC 49 | 32 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.23 | 3.71 | 99 | 20120509 |
| GGC 49 | 32 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.03 | 3.86 | 57 | 20120509 |
| GGC 49 | 32 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.06 | 3.64 | 59 | 20120509 |
| GGC 49 | 44 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.06 | 3.43 | 56 | 20120509 |
| GGC 49 | 44 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.08 | 3.72 | 139 | 20120509 |
| GGC 49 | 25 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.12 | 4.03 | 28 | 20120510 |
| GGC 49 | 25 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.18 | 4.00 | 23 | 20120510 |
| GGC 49 | 27 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.03 | 3.80 | 26 | 20120510 |
| GGC 49 | 29 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.28 | 3.27 | 32 | 20120510 |
| GGC 49 | 29 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.05 | 4.01 | 43 | 20120510 |
| GGC 49 | 29 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.02 | 4.08 | 42 | 20120510 |

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|-----------|----|-----------------------------|------|---|-------|------|-----|----------|
| GGC 49 | 36 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.10 | 3.90 | 47 | 20120510 |
| GGC 49 | 36 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.08 | 3.74 | 33 | 20120510 |
| GGC 49 | 36 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.07 | 3.66 | 41 | 20120510 |
| GGC 49 | 40 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.05 | 3.64 | 36 | 20120510 |
| GGC 49 | 40 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.16 | 3.74 | 43 | 20120510 |
| GGC 49 | 44 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.25 | 3.63 | 46 | 20120510 |
| GGC 49 | 52 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.02 | 3.73 | 42 | 20120510 |
| GGC 49 | 52 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.19 | 3.86 | 47 | 20120510 |
| GGC 49 | 52 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.07 | 3.74 | 33 | 20120510 |
| GGC 49 | 40 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.22 | 3.40 | 20 | 20120510 |
| GGC 49 | 16 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.02 | 4.29 | 25 | 20120510 |
| GGC 49 | 19 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.01 | 4.13 | 33 | 20120510 |
| GGC 49 | 19 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.11 | 4.10 | 27 | 20120510 |
| GGC 49 | 23 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.00 | 4.12 | 28 | 20120510 |
| GGC 49 | 23 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.15 | 3.54 | 38 | 20120510 |
| GGC 49 | 48 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.03 | 3.44 | 121 | 20120511 |

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|-----------|----|----------------------------|------|---|-------|------|-----|----------|
| GGC 49 | 48 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.09 | 3.63 | 84 | 20120511 |
| GGC 49 | 48 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.05 | 3.41 | 74 | 20120511 |
| GGC 49 | 56 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.25 | 2.85 | 123 | 20120511 |
| GGC 49 | 56 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.12 | 2.73 | 78 | 20120511 |
| GGC 49 | 60 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.05 | 3.28 | 165 | 20120511 |
| GGC 49 | 60 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.31 | 3.04 | 60 | 20120511 |
| GGC 49 | 65 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.32 | 3.29 | 160 | 20120511 |
| GGC 49 | 65 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.35 | 2.94 | 146 | 20120511 |
| GGC 49 | 65 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.18 | 3.87 | 56 | 20120511 |
| GGC 49 | 69 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.23 | 3.03 | 169 | 20120511 |
| GGC 49 | 72 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.04 | 3.43 | 93 | 20120511 |
| GGC 49 | 72 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.28 | 2.84 | 60 | 20120511 |
| GGC 49 | 72 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.11 | 3.23 | 71 | 20120511 |
| GGC 49 | 76 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.26 | 3.07 | 130 | 20120511 |
| GGC 49 | 76 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.05 | 3.07 | 122 | 20120511 |
| GGC 49 | 76 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.17 | 2.90 | 52 | 20120511 |

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|-----------|-----|----------------------------|------|---|-------|------|-----|----------|
| GGC 49 | 80 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.27 | 3.03 | 93 | 20120511 |
| GGC 49 | 80 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.13 | 2.93 | 166 | 20120511 |
| GGC 49 | 80 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.23 | 2.98 | 95 | 20120511 |
| GGC 49 | 85 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.01 | 3.01 | 96 | 20120511 |
| GGC 49 | 85 | C. <i>wuellerstorfi</i> | >250 | 1 | 0.28 | 3.07 | 70 | 20120511 |
| GGC 49 | 97 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.11 | 3.68 | 65 | 20120511 |
| GGC 49 | 97 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.14 | 3.83 | 55 | 20120511 |
| GGC 49 | 100 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.13 | 3.59 | 51 | 20120511 |
| GGC 49 | 104 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.30 | 3.58 | 104 | 20120511 |
| GGC 49 | 104 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.31 | 3.69 | 72 | 20120511 |
| GGC 49 | 104 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.36 | 3.40 | 60 | 20120511 |
| GGC 49 | 108 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.35 | 3.81 | 60 | 20120511 |
| GGC 49 | 108 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.24 | 3.93 | 142 | 20120511 |
| GGC 49 | 108 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.35 | 4.08 | 58 | 20120511 |
| GGC 49 | 112 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.28 | 3.95 | 106 | 20120511 |
| GGC 49 | 112 | C. <i>wuellerstorfi</i> | >250 | 1 | -0.36 | 3.73 | 57 | 20120511 |

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|-----------|-----|-----------------------------|------|---|-------|------|-----|----------|
| GGC 49 | 112 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.27 | 3.95 | 51 | 20120511 |
| GGC 49 | 117 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.27 | 3.88 | 92 | 20120511 |
| GGC 49 | 117 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.07 | 3.67 | 92 | 20120511 |
| GGC 49 | 122 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.32 | 3.82 | 157 | 20120511 |
| GGC 49 | 123 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.19 | 3.66 | 116 | 20120511 |
| GGC 49 | 56 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.05 | 3.48 | 48 | 20120514 |
| GGC 49 | 60 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.09 | 3.74 | 41 | 20120514 |
| GGC 49 | 69 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.10 | 2.91 | 23 | 20120514 |
| GGC 49 | 69 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.31 | 3.09 | 22 | 20120514 |
| GGC 49 | 85 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.15 | 3.92 | 49 | 20120514 |
| GGC 49 | 88 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.24 | 3.09 | 29 | 20120514 |
| GGC 49 | 88 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.09 | 2.83 | 30 | 20120514 |
| GGC 49 | 88 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.05 | 3.05 | 23 | 20120514 |
| GGC 49 | 92 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.11 | 3.13 | 26 | 20120514 |
| GGC 49 | 92 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.01 | 3.32 | 25 | 20120514 |
| GGC 49 | 92 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.18 | 3.95 | 20 | 20120514 |

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|---------------|-----|-----------------------------|-------------|---|-------|-------|-----|----------|
| GGC 49 | 100 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.25 | 4.06 | 37 | 20120514 |
| GGC 49 | 100 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.31 | 3.99 | 29 | 20120514 |
| GGC 49 | 117 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.26 | 3.86 | 48 | 20120514 |
| GGC 49 | 122 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.46 | 3.84 | 46 | 20120514 |
| GGC 49 | 122 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.26 | 3.90 | 20 | 20120514 |
| GGC 49 | 128 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.10 | 3.67 | 46 | 20120514 |
| GGC 49 | 128 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.20 | 3.42 | 40 | 20120514 |
| GGC 49 | 128 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.28 | 3.90 | 28 | 20120514 |
| GGC 49 | 132 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.18 | 3.47 | 44 | 20120514 |
| GGC 49 | 132 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.28 | 3.52 | 29 | 20120514 |
| VM34- 16TW | 0 | <i>G. tumida</i> | 425- 500 | 1 | 2.15 | -0.43 | 139 | 20100424 |
| VM34- 16TW | 0 | <i>G. tumida</i> | 425- 500 | 1 | 1.69 | 0.55 | 143 | 20100424 |
| VM34- 16TW | 0 | <i>G. tumida</i> | 425- 500 | 1 | 2.03 | 0.31 | 132 | 20100424 |
| VM34- 16TW | 0 | <i>G. tumida</i> | 425- 500 | 1 | 1.89 | 0.21 | 140 | 20100424 |
| VM34- 16TW | 0 | <i>G. tumida</i> | 425- 500 | 1 | 1.81 | 0.27 | 154 | 20100424 |
| VM34- 16TW | 0 | <i>G. tumida</i> | 425- 500 | 1 | 1.74 | -0.24 | 146 | 20100424 |

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|-----------|----|------------------|---------|----|------|-------|-----|----------|
| VM34-16TW | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.29 | 0.17 | 154 | 20100424 |
| VM34-16TW | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 0.38 | 123 | 20100424 |
| VM34-16TW | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | 0.21 | 148 | 20100424 |
| VM34-16TW | 14 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -1.78 | 138 | 20100424 |
| VM34-16TW | 12 | <i>G. ruber</i> | 250-355 | 10 | 1.08 | -2.06 | 159 | 20100424 |
| VM34-16TW | 10 | <i>G. ruber</i> | 250-355 | 10 | 1.32 | -2.30 | 131 | 20100424 |
| VM34-16TW | 8 | <i>G. ruber</i> | 250-355 | 10 | 1.34 | -2.02 | 136 | 20100424 |
| VM34-16TW | 6 | <i>G. ruber</i> | 250-355 | 10 | 1.19 | -1.78 | 167 | 20100424 |
| VM34-16TW | 4 | <i>G. ruber</i> | 250-355 | 10 | 1.21 | -1.45 | 141 | 20100424 |
| VM34-16TW | 2 | <i>G. ruber</i> | 250-355 | 10 | 1.37 | -1.38 | 152 | 20100424 |
| VM34-16TW | 0 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -1.60 | 125 | 20100424 |
| VM34-16 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | 0.65 | 137 | 20080815 |
| VM34-16 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.66 | 0.11 | 94 | 20080815 |
| VM34-16 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.48 | -0.28 | 113 | 20080815 |
| VM34-16 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -0.28 | 112 | 20080815 |
| VM34-16 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | 0.62 | 97 | 20080815 |

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|---------|----|------------------|---------|---|------|-------|-----|----------|
| VM34-16 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | -0.62 | 110 | 20080815 |
| VM34-16 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | -0.21 | 120 | 20080815 |
| VM34-16 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | 1.24 | 92 | 20080815 |
| VM34-16 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | 0.34 | 81 | 20080815 |
| VM34-16 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | 0.15 | 106 | 20080815 |
| VM34-16 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.37 | 0.84 | 112 | 20080825 |
| VM34-16 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.17 | 145 | 20080825 |
| VM34-16 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.71 | 0.31 | 151 | 20080825 |
| VM34-16 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | 0.19 | 147 | 20080825 |
| VM34-16 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.58 | -0.35 | 126 | 20080825 |
| VM34-16 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.55 | -0.53 | 104 | 20080825 |
| VM34-16 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.27 | 0.31 | 147 | 20080825 |
| VM34-16 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | 1.26 | 99 | 20080825 |
| VM34-16 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | -0.03 | 107 | 20080825 |
| VM34-16 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.61 | -0.17 | 148 | 20080825 |
| VM34-16 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | -0.47 | 164 | 20080825 |

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|---------|----|------------------|---------|---|------|-------|-----|----------|
| VM34-16 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | -0.19 | 114 | 20080825 |
| VM34-16 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | 0.03 | 119 | 20080825 |
| VM34-16 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.02 | 117 | 20080825 |
| VM34-16 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.25 | 0.58 | 92 | 20080825 |
| VM34-16 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | 0.50 | 143 | 20080825 |
| VM34-16 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.65 | 1.69 | 98 | 20091009 |
| VM34-16 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.29 | 0.43 | 104 | 20091009 |
| VM34-16 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.90 | 114 | 20091009 |
| VM34-16 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -0.56 | 124 | 20091009 |
| VM34-16 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | 0.94 | 115 | 20091009 |
| VM34-16 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.39 | -0.35 | 111 | 20091009 |
| VM34-16 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.33 | 0.27 | 120 | 20091009 |
| VM34-16 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.24 | 117 | 20100823 |
| VM34-16 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | -0.01 | 117 | 20100823 |
| VM34-16 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | -0.12 | 128 | 20100823 |
| VM34-16 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | -0.55 | 150 | 20100823 |

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| VM34-16 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.31 | 90 | 20100823 |
| VM34-16 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.49 | -0.16 | 147 | 20100823 |
| VM34-16 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | -0.25 | 134 | 20100823 |
| VM34-16 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -0.53 | 121 | 20100823 |
| VM34-16 | 44 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | -0.70 | 128 | 20100823 |
| VM34-16 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.20 | 105 | 20100823 |
| VM34-16 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | -0.21 | 142 | 20100823 |
| VM34-16 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | 0.06 | 106 | 20100823 |
| VM34-16 | 4 | <i>G. ruber</i> | | | 0.24 | -1.89 | 58 | 20081014 |
| VM34-16 | 8 | <i>G. ruber</i> | | | 0.69 | -1.58 | 58 | 20081014 |
| VM34-16 | 12 | <i>G. ruber</i> | | | 0.25 | -1.20 | 68 | 20081014 |
| VM34-16 | 16 | <i>G. ruber</i> | | | 0.82 | -1.27 | 73 | 20081014 |
| VM34-16 | 20 | <i>G. ruber</i> | | | 0.99 | -1.57 | 68 | 20081014 |
| VM34-16 | 24 | <i>G. ruber</i> | | | 0.97 | -1.45 | 70 | 20081014 |
| VM34-16 | 28 | <i>G. ruber</i> | | | 1.13 | -1.54 | 67 | 20081014 |
| VM34-16 | 32 | <i>G. ruber</i> | | | 1.22 | -1.59 | 73 | 20081014 |

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| VM34-16 | 36 | <i>G. ruber</i> | | | 0.59 | -1.50 | 63 | 20081014 |
| VM34-16 | 40 | <i>G. ruber</i> | | | 0.74 | -1.13 | 64 | 20081014 |
| VM34-16 | 44 | <i>G. ruber</i> | | | 0.94 | -1.32 | 58 | 20081014 |
| VM34-16 | 48 | <i>G. ruber</i> | | | 0.69 | -1.42 | 57 | 20081014 |
| VM34-16 | 50 | <i>G. ruber</i> | | | 0.66 | -1.23 | 75 | 20081014 |
| VM34-16 | 52 | <i>G. ruber</i> | | | 0.78 | -1.37 | 61 | 20081014 |
| VM34-16 | 56 | <i>G. ruber</i> | | | 0.69 | -1.26 | 73 | 20081014 |
| VM34-16 | 60 | <i>G. ruber</i> | | | 0.62 | -1.10 | 66 | 20081014 |
| VM34-14 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | 0.81 | | 20061222 |
| VM34-14 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.50 | -0.15 | | 20061222 |
| VM34-14 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.58 | 0.63 | | 20061222 |
| VM34-14 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | 1.09 | | 20061222 |
| VM34-14 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | 0.36 | | 20061222 |
| VM34-14 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | -0.27 | | 20061222 |
| VM34-14 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.63 | -0.05 | | 20061222 |
| VM34-14 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | -0.48 | | 20061222 |

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|---------|----|------------------|---------|---|------|-------|----------|
| VM34-14 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.58 | 0.58 | 20061222 |
| VM34-14 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.58 | -0.03 | 20061222 |
| VM34-14 | 44 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | 0.29 | 20061222 |
| VM34-14 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.46 | -0.52 | 20061222 |
| VM34-14 | 52 | <i>G. tumida</i> | 425-500 | 1 | 1.49 | 0.13 | 20061222 |
| VM34-14 | 56 | <i>G. tumida</i> | 425-500 | 1 | 1.59 | 0.37 | 20061222 |
| VM34-14 | 60 | <i>G. tumida</i> | 425-500 | 1 | 1.47 | -0.07 | 20061222 |
| VM34-14 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | -0.09 | 20070817 |
| VM34-14 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | 0.50 | 20070817 |
| VM34-14 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | 0.07 | 20070817 |
| VM34-14 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | 0.47 | 20070817 |
| VM34-14 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.26 | 0.78 | 20070817 |
| VM34-14 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.26 | -0.20 | 20070817 |
| VM34-14 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | 0.20 | 20070817 |
| VM34-14 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | -0.05 | 20070817 |
| VM34-14 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | 0.14 | 20070817 |

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|---------|----|------------------|---------|---|------|-------|----------|
| VM34-14 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -0.36 | 20070817 |
| VM34-14 | 44 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -1.15 | 20070817 |
| VM34-14 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.18 | 20070817 |
| VM34-14 | 52 | <i>G. tumida</i> | 425-500 | 1 | 1.76 | 0.66 | 20070817 |
| VM34-14 | 56 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | -0.11 | 20070817 |
| VM34-14 | 60 | <i>G. tumida</i> | 425-500 | 1 | 1.46 | 0.36 | 20070817 |
| VM34-14 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.25 | 0.24 | 20070817 |
| VM34-14 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | 0.11 | 20070817 |
| VM34-14 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | 0.46 | 20070817 |
| VM34-14 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.25 | -0.01 | 20070817 |
| VM34-14 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.23 | 0.98 | 20070817 |
| VM34-14 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | 0.44 | 20070817 |
| VM34-14 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.65 | 0.98 | 20070817 |
| VM34-14 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | 0.47 | 20070817 |
| VM34-14 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | 0.28 | 20070817 |
| VM34-14 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | -0.53 | 20070817 |

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|---------|----|------------------|---------|---|------|-------|-----|----------|
| VM34-14 | 44 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | 0.51 | | 20070817 |
| VM34-14 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.46 | 0.19 | | 20070817 |
| VM34-14 | 52 | <i>G. tumida</i> | 425-500 | 1 | 1.61 | 0.31 | | 20070817 |
| VM34-14 | 56 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | 0.09 | | 20070817 |
| VM34-14 | 60 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | 0.00 | | 20070817 |
| VM34-14 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.36 | -0.39 | 94 | 20081206 |
| VM34-14 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | 1.03 | 77 | 20081206 |
| VM34-14 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | 0.76 | 83 | 20081206 |
| VM34-14 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.31 | -0.11 | 117 | 20081206 |
| VM34-14 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | 0.90 | 82 | 20081206 |
| VM34-14 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | -0.62 | 122 | 20090408 |
| VM34-14 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 0.16 | 126 | 20090408 |
| VM34-14 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | -0.47 | 103 | 20090408 |
| VM34-14 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | -0.24 | 138 | 20090408 |
| VM34-14 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | -0.68 | 111 | 20090408 |
| VM34-14 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -0.50 | 105 | 20090408 |

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| VM34-14 | 16 | <i>G. ruber</i> | 250-355 | 10 | 1.14 | -1.85 | 77 | 20070916 |
| VM34-14 | 20 | <i>G. ruber</i> | 250-355 | 10 | 0.79 | -1.67 | 66 | 20070916 |
| VM34-14 | 24 | <i>G. ruber</i> | 250-355 | 10 | 1.22 | -1.20 | 96 | 20070916 |
| VM34-14 | 28 | <i>G. ruber</i> | 250-355 | 10 | 1.35 | -1.71 | 115 | 20070916 |
| VM34-14 | 32 | <i>G. ruber</i> | 250-355 | 10 | 1.24 | -1.44 | 46 | 20070916 |
| VM34-14 | 36 | <i>G. ruber</i> | 250-355 | 10 | 1.00 | -1.54 | 102 | 20070916 |
| VM34-14 | 40 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -2.13 | 84 | 20070916 |
| VM34-14 | 44 | <i>G. ruber</i> | 250-355 | 10 | 1.06 | -2.43 | 87 | 20070916 |
| VM34-14 | 48 | <i>G. ruber</i> | 250-355 | 10 | 0.70 | -1.47 | 65 | 20070916 |
| VM34-14 | 52 | <i>G. ruber</i> | 250-355 | 10 | 0.87 | -1.40 | 96 | 20070916 |
| VM34-14 | 56 | <i>G. ruber</i> | 250-355 | 10 | 0.62 | -1.28 | | 20070916 |
| VM34-14 | 60 | <i>G. ruber</i> | 250-355 | 10 | 0.83 | -1.19 | 109 | 20070916 |
| RC17-176TW | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.66 | 138 | 20100409 |
| RC17-176TW | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.32 | 131 | 20100409 |
| RC17-176TW | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.53 | -1.17 | 102 | 20100409 |
| RC17-176TW | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | 0.47 | 106 | 20100409 |

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| RC17-176TW | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.56 | -1.12 | 137 | 20100409 |
| RC17-176TW | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | -0.75 | 131 | 20100409 |
| RC17-176 | 20 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -1.52 | | 20080121 |
| RC17-176 | 30 | <i>G. ruber</i> | 250-355 | 10 | 1.48 | -1.26 | | 20080121 |
| RC17-176 | 15 | <i>G. ruber</i> | 250-355 | 10 | 1.19 | -2.14 | | 20080121 |
| RC17-176 | 25 | <i>G. ruber</i> | 250-355 | 10 | 1.34 | -1.36 | LGM | 20080121 |
| RC17-176 | 35 | <i>G. ruber</i> | 250-355 | 10 | 1.29 | -1.49 | | 20080121 |
| RC17-176 | 45 | <i>G. ruber</i> | 250-355 | 10 | 1.48 | -1.45 | | 20080121 |
| RC17-176 | 55 | <i>G. ruber</i> | 250-355 | 10 | 1.31 | -1.59 | | 20080121 |
| RC17-176 | 40 | <i>G. ruber</i> | 250-355 | 10 | 1.43 | -1.39 | | 20080121 |
| RC17-176 | 60 | <i>G. ruber</i> | 250-355 | 10 | 1.30 | -1.56 | | 20080121 |
| RC17-176 | 65 | <i>G. ruber</i> | 250-355 | 10 | 1.05 | -1.65 | 94 | 20120409 |
| RC17-176 | 65 | <i>G. ruber</i> | 250-355 | 10 | 0.88 | -1.39 | 101 | 20120409 |
| RC17-176 | 70 | <i>G. ruber</i> | 250-355 | 10 | 1.01 | -1.64 | 94 | 20120409 |
| RC17-176 | 70 | <i>G. ruber</i> | 250-355 | 10 | 1.15 | -1.57 | 90 | 20120409 |
| RC17-176 | 75 | <i>G. ruber</i> | 250-355 | 10 | 1.40 | -1.58 | 110 | 20120409 |

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| RC17-176 | 75 | <i>G. ruber</i> | 250-355 | 10 | 1.23 | -1.61 | 116 | 20120409 |
| RC17-176 | 80 | <i>G. ruber</i> | 250-355 | 10 | 1.28 | -1.72 | 108 | 20120409 |
| RC17-176 | 80 | <i>G. ruber</i> | 250-355 | 10 | 1.15 | -1.67 | 104 | 20120409 |
| RC17-176 | 85 | <i>G. ruber</i> | 250-355 | 10 | 1.30 | -1.97 | 97 | 20120409 |
| RC17-176 | 85 | <i>G. ruber</i> | 250-355 | 10 | 1.21 | -1.81 | 107 | 20120409 |
| RC17-176 | 95 | <i>G. ruber</i> | 250-355 | 10 | 1.46 | -1.94 | 138 | 20120409 |
| RC17-176 | 95 | <i>G. ruber</i> | 250-355 | 10 | 1.47 | -1.65 | 120 | 20120409 |
| RC17-176 | 102 | <i>G. ruber</i> | 250-355 | 10 | 1.34 | -1.89 | 104 | 20120409 |
| RC17-176 | 102 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -1.99 | 102 | 20120409 |
| RC17-176 | 105 | <i>G. ruber</i> | 250-355 | 10 | 1.17 | -1.91 | 111 | 20120409 |
| RC17-176 | 105 | <i>G. ruber</i> | 250-355 | 10 | 1.21 | -1.89 | 119 | 20120409 |
| RC17-176 | 110 | <i>G. ruber</i> | 250-355 | 10 | 1.09 | -1.76 | 114 | 20120409 |
| RC17-176 | 115 | <i>G. ruber</i> | 250-355 | 10 | 0.98 | -1.81 | 111 | 20120409 |
| RC17-176 | 115 | <i>G. ruber</i> | 250-355 | 10 | 0.90 | -2.13 | 93 | 20120409 |
| RC17-176 | 120 | <i>G. ruber</i> | 250-355 | 10 | 0.88 | -1.92 | 111 | 20120409 |
| RC17-176 | 120 | <i>G. ruber</i> | 250-355 | 10 | 0.65 | -1.90 | 103 | 20120409 |

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| RC17-176 | 90 | <i>G. ruber</i> | 250-355 | 8 | 1.34 | -2.00 | 80 | 20120409 |
| RC17-176 | 125 | <i>G. ruber</i> | 250-355 | 10 | 0.73 | -1.89 | 117 | 20120410 |
| RC17-176 | 125 | <i>G. ruber</i> | 250-355 | 10 | 0.88 | -1.70 | 133 | 20120410 |
| RC17-176 | 130 | <i>G. ruber</i> | 250-355 | 10 | 0.79 | -1.51 | 107 | 20120410 |
| RC17-176 | 130 | <i>G. ruber</i> | 250-355 | 10 | 0.81 | -1.38 | 110 | 20120410 |
| RC17-176 | 135 | <i>G. ruber</i> | 250-355 | 10 | 0.55 | -1.12 | 104 | 20120410 |
| RC17-176 | 135 | <i>G. ruber</i> | 250-355 | 10 | 0.93 | -1.24 | 132 | 20120410 |
| RC17-176 | 140 | <i>G. ruber</i> | 250-355 | 10 | 0.72 | -1.20 | 125 | 20120410 |
| RC17-176 | 140 | <i>G. ruber</i> | 250-355 | 10 | 0.92 | -1.04 | 145 | 20120410 |
| RC17-176 | 145 | <i>G. ruber</i> | 250-355 | 10 | 1.01 | -0.98 | 129 | 20120410 |
| RC17-176 | 150 | <i>G. ruber</i> | 250-355 | 10 | 0.77 | -0.99 | 121 | 20120410 |
| RC17-176 | 155 | <i>G. ruber</i> | 250-355 | 10 | 0.83 | -1.18 | 118 | 20120410 |
| RC17-176 | 155 | <i>G. ruber</i> | 250-355 | 10 | 0.97 | -1.19 | 122 | 20120410 |
| RC17-176 | 160 | <i>G. ruber</i> | 250-355 | 10 | 0.76 | -1.33 | 129 | 20120410 |
| RC17-176 | 160 | <i>G. ruber</i> | 250-355 | 10 | 0.65 | -1.15 | 121 | 20120410 |
| RC17-176 | 165 | <i>G. ruber</i> | 250-355 | 10 | 0.94 | -1.49 | 129 | 20120410 |

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| RC17-176 | 165 | <i>G. ruber</i> | 250-355 | 10 | 0.66 | -1.34 | 117 | 20120410 |
| RC17-176 | 175 | <i>G. ruber</i> | 250-355 | 10 | 1.10 | -1.17 | 145 | 20120410 |
| RC17-176 | 175 | <i>G. ruber</i> | 250-355 | 10 | 0.80 | -1.27 | 125 | 20120410 |
| RC17-176 | 145 | <i>G. ruber</i> | 250-355 | 10 | 1.09 | -1.25 | 125 | 20120416 |
| RC17-176 | 150 | <i>G. ruber</i> | 250-355 | 10 | 0.78 | -1.12 | 105 | 20120416 |
| RC17-176 | 15 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | -0.37 | | 20071016 |
| RC17-176 | 15 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | 0.33 | | 20071016 |
| RC17-176 | 15 | <i>G. tumida</i> | 425-500 | 1 | 1.50 | -0.32 | | 20071016 |
| RC17-176 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | 0.32 | | 20071016 |
| RC17-176 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.44 | 0.61 | | 20071016 |
| RC17-176 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | 0.53 | | 20071016 |
| RC17-176 | 25 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 0.17 | LGM | 20071016 |
| RC17-176 | 25 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | 0.22 | LGM | 20071016 |
| RC17-176 | 25 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | 0.23 | LGM | 20071016 |
| RC17-176 | 30 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.05 | | 20071016 |
| RC17-176 | 30 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.25 | | 20071016 |

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| RC17-176 | 30 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | 0.10 | 20071016 |
| RC17-176 | 35 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | -0.19 | 20071016 |
| RC17-176 | 35 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -0.49 | 20071016 |
| RC17-176 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.52 | 0.23 | 20071016 |
| RC17-176 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | -0.26 | 20071016 |
| RC17-176 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | 0.52 | 20071016 |
| RC17-176 | 45 | <i>G. tumida</i> | 425-500 | 1 | 1.32 | 0.01 | 20071016 |
| RC17-176 | 45 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | -0.37 | 20071016 |
| RC17-176 | 45 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | 0.03 | 20071016 |
| RC17-176 | 55 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | -0.31 | 20071016 |
| RC17-176 | 55 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | -0.09 | 20071016 |
| RC17-176 | 55 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -0.18 | 20071016 |
| RC17-176 | 60 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | -0.80 | 20071016 |
| RC17-176 | 60 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | -0.33 | 20071016 |
| RC17-176 | 60 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | 0.00 | 20071016 |
| RC17-176 | 65 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | -0.64 | 20071016 |

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| RC17-176 | 65 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | 1.02 | | 20071016 |
| RC17-176 | 65 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | -0.42 | | 20071016 |
| RC17-176 | 30 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -0.11 | 111 | 20081206 |
| RC17-176 | 30 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | 0.21 | 123 | 20081206 |
| RC17-176 | 30 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | -0.05 | 101 | 20081206 |
| RC17-176 | 30 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | -0.34 | 106 | 20081206 |
| RC17-176 | 30 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | 0.30 | 86 | 20081206 |
| RC17-176 | 30 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -0.06 | 114 | 20090123 |
| RC17-176 | 30 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -0.10 | 150 | 20090123 |
| RC17-176 | 30 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -0.07 | 120 | 20090123 |
| RC17-176 | 30 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | -0.57 | 124 | 20090123 |
| RC17-176 | 30 | <i>G. tumida</i> | 425-500 | 1 | 2.52 | -0.57 | 121 | 20090123 |
| RC17-176 | 1 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -1.18 | 106 | 20090406 |
| RC17-176 | 1 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -1.35 | 109 | 20090406 |
| RC17-176 | 1 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | 0.15 | 100 | 20090406 |
| RC17-176 | 1 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | 0.56 | 115 | 20090406 |

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| RC17-176 | 1 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | 0.38 | 113 | 20090406 |
| RC17-176 | 1 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | -0.50 | 118 | 20090406 |
| RC17-176 | 7 | <i>G. tumida</i> | 425-500 | 1 | 0.74 | 2.13 | 155 | 20091008 |
| RC17-176 | 7 | <i>G. tumida</i> | 425-500 | 1 | -1.36 | 1.95 | 164 | 20091008 |
| RC17-176 | 7 | <i>G. tumida</i> | 425-500 | 1 | -0.08 | 2.01 | 135 | 20091008 |
| RC17-176 | 7 | <i>G. tumida</i> | 425-500 | 1 | -1.14 | 1.94 | 136 | 20091008 |
| RC17-176 | 7 | <i>G. tumida</i> | 425-500 | 1 | 0.61 | 1.50 | 147 | 20091008 |
| RC17-176 | 75 | <i>G. tumida</i> | 425-500 | 1 | 2.37 | -1.03 | 102 | 20101108 |
| RC17-176 | 75 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | -0.44 | 115 | 20101108 |
| RC17-176 | 80 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | 0.48 | 153 | 20101108 |
| RC17-176 | 80 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | -0.03 | 125 | 20101108 |
| RC17-176 | 85 | <i>G. tumida</i> | 425-500 | 1 | 1.66 | -0.45 | 114 | 20101108 |
| RC17-176 | 85 | <i>G. tumida</i> | 425-500 | 1 | 1.60 | -0.95 | 146 | 20101108 |
| RC17-176 | 85 | <i>G. tumida</i> | 425-500 | 1 | 1.66 | -0.63 | 114 | 20101108 |
| RC17-176 | 90 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -1.01 | 131 | 20101108 |
| RC17-176 | 90 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | -0.43 | 132 | 20101108 |

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| RC17-176 | 90 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -0.88 | 120 | | 20101108 |
| RC17-176 | 95 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | -0.88 | 126 | MIS 5e | 20101108 |
| RC17-176 | 95 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | -0.88 | 114 | MIS 5e | 20101108 |
| RC17-176 | 95 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | -0.39 | 114 | MIS 5e | 20101108 |
| RC17-176 | 102 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | -1.21 | 128 | MIS 5e | 20101108 |
| RC17-176 | 102 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | -0.57 | 112 | MIS 5e | 20101108 |
| RC17-176 | 102 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | -0.90 | 112 | MIS 5e | 20101108 |
| RC17-176 | 105 | <i>G. tumida</i> | 425-500 | 1 | 1.63 | -1.29 | 157 | MIS 5e | 20101108 |
| RC17-176 | 105 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | -0.54 | 130 | MIS 5e | 20101108 |
| RC17-176 | 105 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | -1.22 | 142 | MIS 5e | 20101108 |
| RC17-176 | 110 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -0.48 | 139 | MIS 5e | 20101108 |
| RC17-176 | 110 | <i>G. tumida</i> | 425-500 | 1 | 1.63 | -1.26 | 96 | MIS 5e | 20101108 |
| RC17-176 | 115 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | -0.08 | 120 | MIS 5e | 20101108 |
| RC17-176 | 115 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | -1.09 | 114 | MIS 5e | 20101110 |
| RC17-176 | 115 | <i>G. tumida</i> | 425-500 | 1 | 1.56 | -0.96 | 101 | MIS 5e | 20101110 |
| RC17-176 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.40 | -1.40 | 122 | | 20101110 |

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| RC17-176 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.18 | -0.57 | 133 | | 20101110 |
| RC17-176 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.17 | -0.44 | 128 | | 20101110 |
| RC17-176 | 125 | <i>G. tumida</i> | 425-500 | 1 | 1.55 | 0.37 | 145 | | 20101110 |
| RC17-176 | 125 | <i>G. tumida</i> | 425-500 | 1 | 1.24 | -1.00 | 144 | | 20101110 |
| RC17-176 | 130 | <i>G. tumida</i> | 425-500 | 1 | 1.41 | 0.52 | 155 | | 20101110 |
| RC17-176 | 130 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | 0.08 | 127 | | 20101110 |
| RC17-176 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.63 | -0.33 | 136 | MIS 6 | 20101110 |
| RC17-176 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.43 | -0.06 | 141 | MIS 6 | 20101110 |
| RC17-176 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | -0.07 | 126 | MIS 6 | 20101110 |
| RC17-176 | 150 | <i>G. tumida</i> | 425-500 | 1 | 1.21 | 0.33 | 135 | MIS 6 | 20101110 |
| RC17-176 | 150 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | -0.19 | 136 | MIS 6 | 20101110 |
| RC17-176 | 150 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -0.41 | 124 | MIS 6 | 20101110 |
| RC17-176 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.62 | 0.12 | 125 | MIS 6 | 20101110 |
| RC17-176 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.14 | 0.20 | 134 | MIS 6 | 20101110 |
| RC17-176 | 75 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | -0.02 | 91 | | 20101110 |
| RC17-176 | 80 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | -1.00 | 109 | | 20101110 |

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| RC17-176 | 25 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | 0.42 | 109 | LGM | 20110504 |
| RC17-176 | 25 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | -0.29 | 97 | LGM | 20110504 |
| RC17-176 | 25 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | 0.48 | 86 | LGM | 20110504 |
| RC17-176 | 25 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | 0.07 | 125 | LGM | 20110504 |
| RC17-176 | 25 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | 0.36 | 103 | LGM | 20110504 |
| RC17-176 | 25 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | 0.65 | 100 | LGM | 20110504 |
| RC17-176 | 25 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | 0.30 | 114 | LGM | 20110504 |
| RC17-176 | 25 | <i>G. tumida</i> | 425-500 | 1 | 2.23 | -0.04 | 113 | LGM | 20110504 |
| RC17-176 | 25 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -0.12 | 120 | LGM | 20110504 |
| RC17-176 | 25 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | 0.17 | 110 | LGM | 20110504 |
| RC17-176 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.45 | 0.07 | 115 | | 20110824 |
| RC17-176 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.32 | -0.68 | 115 | | 20110824 |
| RC17-176 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.02 | -1.04 | 147 | | 20110824 |
| RC17-176 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.23 | -0.74 | 159 | | 20110824 |
| RC17-176 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | 0.07 | 132 | | 20110824 |
| RC17-176 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.28 | 0.61 | 110 | | 20110824 |

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| RC17-176 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.20 | -1.44 | 114 | 20110824 |
| RC17-176 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | -1.51 | 138 | 20110824 |
| RC17-176 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -1.81 | 127 | 20110825 |
| RC17-176 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.32 | 0.87 | 128 | 20110825 |
| RC17-176 | 125 | <i>G. tumida</i> | 425-500 | 1 | 1.01 | 0.77 | 128 | 20110825 |
| RC17-176 | 125 | <i>G. tumida</i> | 425-500 | 1 | 1.38 | -1.11 | 122 | 20110825 |
| RC17-176 | 125 | <i>G. tumida</i> | 425-500 | 1 | 1.39 | -0.95 | 152 | 20110825 |
| RC17-176 | 125 | <i>G. tumida</i> | 425-500 | 1 | 1.63 | 0.10 | 118 | 20110825 |
| RC17-176 | 125 | <i>G. tumida</i> | 425-500 | 1 | 1.61 | -1.13 | 135 | 20110825 |
| RC17-176 | 125 | <i>G. tumida</i> | 425-500 | 1 | 1.25 | -1.24 | 144 | 20110825 |
| RC17-176 | 125 | <i>G. tumida</i> | 425-500 | 1 | 1.24 | 0.02 | 115 | 20110825 |
| RC17-176 | 125 | <i>G. tumida</i> | 425-500 | 1 | 1.49 | -1.56 | 139 | 20110825 |
| RC17-176 | 125 | <i>G. tumida</i> | 425-500 | 1 | 1.58 | 1.23 | 147 | 20110825 |
| RC17-176 | 125 | <i>G. tumida</i> | 425-500 | 1 | 1.17 | 0.83 | 114 | 20110825 |
| RC17-176 | 130 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | -0.98 | 129 | 20110825 |
| RC17-176 | 130 | <i>G. tumida</i> | 425-500 | 1 | 1.60 | -0.17 | 148 | 20110825 |

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|----------|-----|------------------|---------|---|------|-------|-----|----------|----------|
| RC17-176 | 130 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | -1.21 | 132 | | 20110825 |
| RC17-176 | 130 | <i>G. tumida</i> | 425-500 | 1 | 1.47 | -0.06 | 152 | | 20110825 |
| RC17-176 | 130 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | 0.20 | 125 | | 20110825 |
| RC17-176 | 130 | <i>G. tumida</i> | 425-500 | 1 | 1.45 | 0.37 | 152 | | 20110825 |
| RC17-176 | 130 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | -1.18 | 120 | | 20110825 |
| RC17-176 | 130 | <i>G. tumida</i> | 425-500 | 1 | 1.59 | -0.11 | 158 | | 20110825 |
| RC17-176 | 135 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | 0.45 | 155 | MIS 6 | 20110826 |
| RC17-176 | 135 | <i>G. tumida</i> | 425-500 | 1 | 1.43 | -0.17 | 140 | MIS 6 | 20110826 |
| RC17-176 | 135 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | 0.76 | 137 | MIS 6 | 20110826 |
| RC17-176 | 135 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | 0.17 | 148 | MIS 6 | 20110826 |
| RC17-176 | 135 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | -0.37 | 133 | MIS 6 | 20110826 |
| RC17-176 | 135 | <i>G. tumida</i> | 425-500 | 1 | 1.56 | -0.07 | 125 | MIS 6 | 20110826 |
| RC17-176 | 135 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | 0.27 | 127 | MIS 6 | 20110826 |
| RC17-176 | 135 | <i>G. tumida</i> | 425-500 | 1 | 1.78 | 0.43 | 154 | MIS 6 | 20110826 |
| RC17-176 | 135 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | -0.02 | 146 | MIS 6 | 20110826 |
| RC17-176 | 135 | <i>G. tumida</i> | 425-500 | 1 | 1.33 | 0.51 | 137 | MIS 6 | 20110826 |

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|----------|-----|---------------------------|---------|---|------|-------|-----|----------|----------|
| RC17-176 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -0.09 | 120 | MIS 6 | 20110826 |
| RC17-176 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.40 | 0.26 | 137 | MIS 6 | 20110826 |
| RC17-176 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | -0.52 | 125 | MIS 6 | 20110826 |
| RC17-176 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | 0.03 | 145 | MIS 6 | 20110826 |
| RC17-176 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.60 | -0.06 | 117 | MIS 6 | 20110826 |
| RC17-176 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | -0.33 | 130 | MIS 6 | 20110826 |
| RC17-176 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.09 | -0.12 | 116 | MIS 6 | 20110826 |
| RC17-176 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | -0.03 | 128 | MIS 6 | 20110826 |
| RC17-176 | 25 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.46 | -0.66 | 40 | | 20111214 |
| RC17-176 | 25 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.43 | -0.58 | 38 | | 20111214 |
| RC17-176 | 25 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.94 | -0.44 | 30 | | 20111214 |
| RC17-176 | 25 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.36 | -1.53 | 43 | | 20111214 |
| RC17-176 | 25 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.29 | -0.66 | 37 | | 20111214 |
| RC17-176 | 25 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.50 | -1.72 | 43 | | 20111214 |
| RC17-176 | 25 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.28 | -0.45 | 44 | | 20111214 |
| RC17-176 | 25 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.30 | -0.40 | 43 | | 20111214 |

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|----------|----|---------------------------|---------|---|-------|-------|----|----------|
| RC17-176 | 25 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.34 | -1.67 | 44 | 20111214 |
| RC17-176 | 25 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.34 | -0.66 | 34 | 20111214 |
| RC17-176 | 7 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.12 | 4.03 | 28 | 20100724 |
| RC17-176 | 25 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.02 | 3.95 | 48 | 20100724 |
| RC17-176 | 25 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.03 | 3.68 | 27 | 20100724 |
| RC17-176 | 30 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.13 | 3.56 | 39 | 20100724 |
| RC17-176 | 30 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.07 | 3.92 | 20 | 20100724 |
| RC17-176 | 35 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.16 | 3.51 | 36 | 20100724 |
| RC17-176 | 45 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.14 | 3.45 | 39 | 20100724 |
| RC17-176 | 45 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.07 | 3.60 | 38 | 20100724 |
| RC17-176 | 55 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.09 | 3.32 | 28 | 20100724 |
| RC17-176 | 60 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.03 | 3.35 | 40 | 20100724 |
| RC17-176 | 65 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.27 | 3.36 | 35 | 20100724 |
| RC17-176 | 65 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.27 | 3.44 | 40 | 20100724 |
| RC17-176 | 65 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.15 | 3.55 | 45 | 20100724 |
| RC17-176 | 70 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.09 | 3.59 | 31 | 20100724 |

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|----------|-----|-------------------------|------|---|-------|------|----|----------|
| RC17-176 | 70 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.03 | 3.34 | 32 | 20100724 |
| RC17-176 | 75 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.05 | 3.55 | 32 | 20100724 |
| RC17-176 | 75 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.25 | 3.32 | 35 | 20100724 |
| RC17-176 | 75 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.06 | 2.88 | 35 | 20100724 |
| RC17-176 | 85 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.09 | 2.85 | 41 | 20100724 |
| RC17-176 | 95 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.21 | 3.19 | 27 | 20100724 |
| RC17-176 | 105 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.08 | 3.05 | 30 | 20100724 |
| RC17-176 | 110 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.16 | 2.89 | 31 | 20100724 |
| RC17-176 | 110 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.17 | 3.58 | 46 | 20100724 |
| RC17-176 | 110 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.15 | 2.37 | 31 | 20100724 |
| RC17-176 | 115 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.19 | 3.04 | 33 | 20100724 |
| RC17-176 | 120 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.21 | 3.81 | 20 | 20100724 |
| RC17-176 | 125 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.21 | 3.77 | 20 | 20100724 |
| RC17-176 | 130 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.49 | 3.71 | 24 | 20100724 |
| RC17-176 | 140 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.25 | 3.75 | 48 | 20100724 |
| RC17-176 | 140 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.20 | 3.99 | 46 | 20100724 |

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|----------|-----|-------------------------|---------|---|-------|-------|-----|----------|
| RC17-176 | 140 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.31 | 3.49 | 36 | 20100724 |
| RC17-176 | 150 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.28 | 3.74 | 45 | 20100724 |
| RC17-176 | 160 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.25 | 3.66 | 37 | 20100724 |
| RC17-176 | 160 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.29 | 3.38 | 48 | 20100724 |
| RC17-176 | 25 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.14 | 3.95 | 68 | 20100724 |
| RC17-176 | 30 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.10 | 4.08 | 87 | 20100724 |
| RC17-176 | 45 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.18 | 3.58 | 75 | 20100724 |
| RC17-176 | 70 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.14 | 3.26 | 61 | 20100724 |
| RC17-176 | 85 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.06 | 2.53 | 57 | 20100724 |
| RC17-176 | 85 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.28 | 3.06 | 142 | 20100724 |
| RC17-176 | 95 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.05 | 3.80 | 64 | 20100724 |
| RC17-176 | 95 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.13 | 2.87 | 58 | 20100724 |
| RC17-176 | 125 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.27 | 3.77 | 77 | 20100724 |
| RC17-176 | 130 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.32 | 3.70 | 54 | 20100724 |
| RC17-176 | 160 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.30 | 3.77 | 69 | 20100724 |
| VM24-110 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | -1.08 | | 20070817 |

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| VM24-110 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | -0.49 | | | 20070817 |
| VM24-110 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -1.06 | | | 20070817 |
| VM24-110 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.50 | -0.49 | 155 | | 20071027 |
| VM24-110 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.46 | -0.90 | 142 | | 20071027 |
| VM24-110 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | 0.27 | 126 | | 20071027 |
| VM24-110 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -1.12 | 134 | | 20071027 |
| VM24-110 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | -0.28 | 114 | | 20071027 |
| VM24-110 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | 0.30 | 124 | | 20071027 |
| VM24-110 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.01 | 127 | | 20071027 |
| VM24-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.36 | -0.09 | 136 | LGM | 20071027 |
| VM24-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | 0.45 | 135 | LGM | 20071027 |
| VM24-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.25 | -0.26 | 145 | LGM | 20071027 |
| VM24-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | 0.10 | 156 | | 20071027 |
| VM24-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.76 | 0.19 | 123 | | 20071027 |
| VM24-110 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | -0.09 | 137 | | 20071027 |
| VM24-110 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | -0.20 | 130 | | 20071027 |

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| VM24-110 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | 0.42 | | 20071027 |
| VM24-110 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.78 | -0.20 | 98 | 20071027 |
| VM24-110 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.58 | 0.39 | 138 | 20071027 |
| VM24-110 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | 0.68 | 156 | 20071027 |
| VM24-110 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | -0.33 | 130 | 20071027 |
| VM24-110 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | 0.37 | 137 | 20071027 |
| VM24-110 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | 0.32 | 146 | 20071027 |
| VM24-110 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.29 | 148 | 20071027 |
| VM24-110 | 44 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | -0.27 | 121 | 20071027 |
| VM24-110 | 44 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | -1.19 | 150 | 20071027 |
| VM24-110 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.46 | -0.57 | 155 | 20071027 |
| VM24-110 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | 0.04 | 152 | 20071027 |
| VM24-110 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -0.23 | 140 | 20071027 |
| VM24-110 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | -0.17 | 134 | 20071027 |
| VM24-110 | 52 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 0.21 | | 20071027 |
| VM24-110 | 52 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | -0.33 | 129 | 20071027 |

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|----------|----|------------------|---------|---|------|-------|-----|-----|----------|
| VM24-110 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | -0.07 | 144 | | 20071027 |
| VM24-110 | 56 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | -0.42 | 123 | | 20071027 |
| VM24-110 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | -0.30 | 139 | | 20071027 |
| VM24-110 | 56 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.68 | 155 | | 20071027 |
| VM24-110 | 60 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -0.08 | 112 | | 20071027 |
| VM24-110 | 60 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | -0.61 | 138 | | 20071027 |
| VM24-110 | 60 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | 0.20 | 141 | | 20071027 |
| VM24-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.23 | -0.16 | 66 | LGM | 20081206 |
| VM24-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | 0.59 | 116 | LGM | 20081206 |
| VM24-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.30 | 0.59 | 85 | LGM | 20081206 |
| VM24-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | 0.46 | 131 | LGM | 20081206 |
| VM24-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | 0.35 | 127 | LGM | 20090123 |
| VM24-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | 0.33 | 101 | LGM | 20090123 |
| VM24-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.52 | -0.54 | 108 | LGM | 20090123 |
| VM24-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.12 | 130 | LGM | 20090123 |
| VM24-110 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | 0.61 | 136 | LGM | 20090123 |

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| VM24-110 | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -1.28 | 117 | 20090408 |
| VM24-110 | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.62 | -0.95 | 116 | 20090408 |
| VM24-110 | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | -1.25 | 118 | 20090408 |
| VM24-110 | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.78 | -0.33 | 139 | 20090408 |
| VM24-110 | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -0.90 | 109 | 20090408 |
| VM24-110 | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | -1.26 | 155 | 20090408 |
| VM24-110 | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | -0.97 | 134 | 20090408 |
| VM24-110 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | -0.17 | 103 | 20100926 |
| VM24-110 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -1.56 | 97 | 20100926 |
| VM24-110 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.25 | -1.07 | 113 | 20100926 |
| VM24-110 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.18 | -2.14 | 111 | 20100926 |
| VM24-110 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | -0.18 | 162 | 20100926 |
| VM24-110 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.56 | -0.48 | 131 | 20100926 |
| VM24-110 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.52 | -0.42 | 141 | 20100926 |
| VM24-110 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 0.93 | 133 | 20100926 |
| VM24-110 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -1.50 | 109 | 20100926 |

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| VM24-110 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.55 | -0.63 | 158 | 20100926 |
| VM24-110 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | -0.87 | 122 | 20100926 |
| VM24-110 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | -0.66 | 168 | 20100926 |
| VM24-110 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.65 | -0.20 | 147 | 20100926 |
| VM24-110 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.32 | -0.19 | 116 | 20100926 |
| VM24-110 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -0.32 | 112 | 20100926 |
| VM24-110 | 64 | <i>G. tumida</i> | 425-500 | 1 | 1.65 | -0.41 | 144 | 20101116 |
| VM24-110 | 64 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | -0.60 | 139 | 20101116 |
| VM24-110 | 68 | <i>G. tumida</i> | 425-500 | 1 | 1.62 | 0.08 | 116 | 20101116 |
| VM24-110 | 68 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -0.41 | 152 | 20101116 |
| VM24-110 | 68 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -0.91 | 108 | 20101116 |
| VM24-110 | 72 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -0.26 | 117 | 20101116 |
| VM24-110 | 72 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 0.14 | 156 | 20101116 |
| VM24-110 | 76 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -0.60 | 131 | 20101116 |
| VM24-110 | 76 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | -0.56 | 132 | 20101116 |
| VM24-110 | 76 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -0.56 | 120 | 20101116 |

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| VM24-110 | 80 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | 0.41 | 126 | | 20101116 |
| VM24-110 | 80 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -0.09 | 99 | | 20101116 |
| VM24-110 | 80 | <i>G. tumida</i> | 425-500 | 1 | 1.50 | -0.53 | 98 | | 20101116 |
| VM24-110 | 84 | <i>G. tumida</i> | 425-500 | 1 | 1.63 | 0.10 | 143 | | 20101116 |
| VM24-110 | 84 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | -0.28 | 125 | | 20101116 |
| VM24-110 | 84 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | 0.42 | 97 | | 20101116 |
| VM24-110 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | -0.28 | 85 | MIS 5e | 20101130 |
| VM24-110 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | -1.07 | 118 | MIS 5e | 20101130 |
| VM24-110 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.51 | 100 | MIS 5e | 20101130 |
| VM24-110 | 152 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | -0.68 | 131 | MIS 5e | 20101130 |
| VM24-110 | 152 | <i>G. tumida</i> | 425-500 | 1 | 1.49 | -0.78 | 122 | MIS 5e | 20101130 |
| VM24-110 | 152 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | -0.88 | 92 | MIS 5e | 20101130 |
| VM24-110 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.61 | -1.06 | 145 | MIS 5e | 20101130 |
| VM24-110 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | -1.34 | 123 | MIS 5e | 20101130 |
| VM24-110 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.50 | -1.11 | 165 | MIS 5e | 20101130 |
| VM24-110 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | 0.15 | 138 | MIS 5e | 20101130 |

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|----------|-----|------------------|---------|---|------|-------|-----|--------|----------|
| VM24-110 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.38 | -0.73 | 137 | MIS 5e | 20101130 |
| VM24-110 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.24 | 0.09 | 115 | MIS 5e | 20101130 |
| VM24-110 | 164 | <i>G. tumida</i> | 425-500 | 1 | 1.55 | -1.54 | 120 | MIS 5e | 20101130 |
| VM24-110 | 164 | <i>G. tumida</i> | 425-500 | 1 | 1.19 | -0.83 | 112 | MIS 5e | 20101130 |
| VM24-110 | 164 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | -1.07 | 141 | MIS 5e | 20101130 |
| VM24-110 | 168 | <i>G. tumida</i> | 425-500 | 1 | 1.49 | -0.94 | 144 | MIS 5e | 20101130 |
| VM24-110 | 168 | <i>G. tumida</i> | 425-500 | 1 | 1.45 | -0.96 | 132 | MIS 5e | 20101130 |
| VM24-110 | 168 | <i>G. tumida</i> | 425-500 | 1 | 1.60 | -1.31 | 105 | MIS 5e | 20101130 |
| VM24-110 | 172 | <i>G. tumida</i> | 425-500 | 1 | 1.66 | 0.84 | 122 | | 20101130 |
| VM24-110 | 172 | <i>G. tumida</i> | 425-500 | 1 | 1.51 | -0.67 | 140 | | 20101130 |
| VM24-110 | 172 | <i>G. tumida</i> | 425-500 | 1 | 1.44 | -0.12 | 165 | | 20101130 |
| VM24-110 | 176 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | 0.15 | 130 | MIS 6 | 20101130 |
| VM24-110 | 176 | <i>G. tumida</i> | 425-500 | 1 | 1.58 | 0.21 | 154 | MIS 6 | 20101130 |
| VM24-110 | 176 | <i>G. tumida</i> | 425-500 | 1 | 1.49 | 0.86 | 139 | MIS 6 | 20101130 |
| VM24-110 | 180 | <i>G. tumida</i> | 425-500 | 1 | 2.23 | -0.66 | 131 | MIS 6 | 20101201 |
| VM24-110 | 180 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.47 | 141 | MIS 6 | 20101201 |

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|----------|-----|------------------|---------|---|------|-------|-----|----------|----------|
| VM24-110 | 180 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | -0.17 | 127 | MIS 6 | 20101201 |
| VM24-110 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | 0.30 | 147 | MIS 6 | 20101201 |
| VM24-110 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.25 | -0.76 | 155 | MIS 6 | 20101201 |
| VM24-110 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.54 | 0.02 | 154 | MIS 6 | 20101201 |
| VM24-110 | 188 | <i>G. tumida</i> | 425-500 | 1 | 1.36 | -0.17 | 151 | MIS 6 | 20101201 |
| VM24-110 | 188 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | 0.31 | 138 | MIS 6 | 20101201 |
| VM24-110 | 188 | <i>G. tumida</i> | 425-500 | 1 | 1.55 | 0.21 | 121 | MIS 6 | 20101201 |
| VM24-110 | 192 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -0.53 | 148 | MIS 6 | 20101201 |
| VM24-110 | 192 | <i>G. tumida</i> | 425-500 | 1 | 1.50 | -0.01 | 160 | MIS 6 | 20101201 |
| VM24-110 | 192 | <i>G. tumida</i> | 425-500 | 1 | 1.28 | 0.35 | 148 | MIS 6 | 20101201 |
| VM24-110 | 196 | <i>G. tumida</i> | 425-500 | 1 | 1.63 | -1.58 | 103 | MIS 6 | 20101201 |
| VM24-110 | 196 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | 0.46 | 152 | MIS 6 | 20101201 |
| VM24-110 | 196 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | 0.16 | 132 | MIS 6 | 20101201 |
| VM24-110 | 200 | <i>G. tumida</i> | 425-500 | 1 | 1.53 | -0.03 | 141 | MIS 6 | 20101201 |
| VM24-110 | 200 | <i>G. tumida</i> | 425-500 | 1 | 1.63 | -0.30 | 127 | MIS 6 | 20101201 |
| VM24-110 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -0.67 | 125 | | 20101203 |

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| VM24-110 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | -0.62 | 129 | 20101203 |
| VM24-110 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | -0.08 | 128 | 20101203 |
| VM24-110 | 124 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -0.65 | 123 | 20101203 |
| VM24-110 | 124 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | -0.83 | 111 | 20101203 |
| VM24-110 | 124 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | -0.38 | 112 | 20101203 |
| VM24-110 | 128 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | -0.50 | 130 | 20101203 |
| VM24-110 | 128 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | -1.02 | 135 | 20101203 |
| VM24-110 | 128 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -0.87 | 129 | 20101203 |
| VM24-110 | 132 | <i>G. tumida</i> | 425-500 | 1 | 1.51 | -0.85 | 118 | 20101203 |
| VM24-110 | 132 | <i>G. tumida</i> | 425-500 | 1 | 1.59 | -0.76 | 129 | 20101203 |
| VM24-110 | 132 | <i>G. tumida</i> | 425-500 | 1 | 1.66 | -0.01 | 118 | 20101203 |
| VM24-110 | 136 | <i>G. tumida</i> | 425-500 | 1 | 1.56 | -0.81 | 128 | 20101203 |
| VM24-110 | 136 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.46 | 124 | 20101203 |
| VM24-110 | 136 | <i>G. tumida</i> | 425-500 | 1 | 1.49 | -0.54 | 148 | 20101203 |
| VM24-110 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.60 | -0.63 | 127 | MIS 5e 20101203 |
| VM24-110 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.49 | -0.63 | 137 | MIS 5e 20101203 |

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| VM24-110 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | 0.03 | 144 | MIS 5e | 20101203 |
| VM24-110 | 144 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | -1.01 | 126 | MIS 5e | 20101203 |
| VM24-110 | 144 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -0.78 | 118 | MIS 5e | 20101203 |
| VM24-110 | 144 | <i>G. tumida</i> | 425-500 | 1 | 1.50 | -0.01 | 128 | MIS 5e | 20101203 |
| VM24-110 | 160 | <i>G. tumida</i> | 425-500 | 1 | 2.27 | -0.27 | 128 | MIS 5e | 20110902 |
| VM24-110 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.46 | -0.81 | 113 | MIS 5e | 20110902 |
| VM24-110 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.51 | 0.36 | 151 | MIS 5e | 20110902 |
| VM24-110 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.39 | -1.19 | 112 | MIS 5e | 20110902 |
| VM24-110 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.34 | -0.16 | 104 | MIS 5e | 20110902 |
| VM24-110 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.39 | -1.18 | 119 | MIS 5e | 20110902 |
| VM24-110 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.53 | -0.41 | 104 | MIS 5e | 20110902 |
| VM24-110 | 160 | <i>G. tumida</i> | 425-500 | 1 | 0.87 | -1.45 | 123 | MIS 5e | 20110907 |
| VM24-110 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | 0.42 | 97 | MIS 5e | 20110907 |
| VM24-110 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | 0.13 | 121 | MIS 5e | 20110907 |
| VM24-110 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.58 | 0.16 | 137 | MIS 6 | 20110907 |
| VM24-110 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | 0.49 | 103 | MIS 6 | 20110907 |

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| VM24-110 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -0.16 | 130 | MIS 6 | 20110907 |
| VM24-110 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.63 | 0.37 | 108 | MIS 6 | 20110907 |
| VM24-110 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | 0.14 | 158 | MIS 6 | 20110907 |
| VM24-110 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | 0.37 | 117 | MIS 6 | 20110907 |
| VM24-110 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.25 | 0.59 | 92 | MIS 6 | 20110907 |
| VM24-110 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.46 | 0.10 | 118 | MIS 6 | 20110907 |
| VM24-110 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | 0.25 | 105 | MIS 6 | 20110907 |
| VM24-110 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | 0.24 | 112 | MIS 6 | 20110907 |
| VM24-110 | 200 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | 0.16 | 160 | MIS 6 | 20111111 |
| VM24-110 | 200 | <i>G. tumida</i> | 425-500 | 1 | 1.50 | 0.60 | 139 | MIS 6 | 20111111 |
| VM24-110 | 200 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | -0.05 | 125 | MIS 6 | 20111111 |
| VM24-110 | 200 | <i>G. tumida</i> | 425-500 | 1 | 1.63 | 0.01 | 144 | MIS 6 | 20111111 |
| VM24-110 | 200 | <i>G. tumida</i> | 425-500 | 1 | 1.66 | -0.88 | 139 | MIS 6 | 20111111 |
| VM24-110 | 200 | <i>G. tumida</i> | 425-500 | 1 | 1.52 | 0.36 | 134 | MIS 6 | 20111111 |
| VM24-110 | 204 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | -0.80 | 113 | MIS 6 | 20111111 |
| VM24-110 | 204 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | 1.16 | 129 | MIS 6 | 20111111 |

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|----------|-----|------------------|---------|---|------|-------|-----|----------|----------|
| VM24-110 | 204 | <i>G. tumida</i> | 425-500 | 1 | 1.55 | 0.00 | 127 | MIS 6 | 20111111 |
| VM24-110 | 204 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | 0.05 | 128 | MIS 6 | 20111111 |
| VM24-110 | 204 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -0.35 | 137 | MIS 6 | 20111111 |
| VM24-110 | 204 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | -0.11 | 163 | MIS 6 | 20111111 |
| VM24-110 | 204 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | -0.46 | 135 | MIS 6 | 20111111 |
| VM24-110 | 204 | <i>G. tumida</i> | 425-500 | 1 | 1.65 | 0.14 | 122 | MIS 6 | 20111111 |
| VM24-110 | 204 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | -0.85 | 123 | MIS 6 | 20111111 |
| VM24-110 | 204 | <i>G. tumida</i> | 425-500 | 1 | 1.51 | 0.16 | 106 | MIS 6 | 20111111 |
| VM24-110 | 204 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | -0.01 | 123 | MIS 6 | 20111111 |
| VM24-110 | 208 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -0.72 | 115 | MIS 6 | 20111111 |
| VM24-110 | 208 | <i>G. tumida</i> | 425-500 | 1 | 1.55 | -0.49 | 140 | MIS 6 | 20111111 |
| VM24-110 | 208 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | 0.38 | 134 | MIS 6 | 20111111 |
| VM24-110 | 208 | <i>G. tumida</i> | 425-500 | 1 | 1.51 | 0.16 | 132 | MIS 6 | 20111111 |
| VM24-110 | 208 | <i>G. tumida</i> | 425-500 | 1 | 1.29 | 1.56 | 145 | MIS 6 | 20111114 |
| VM24-110 | 208 | <i>G. tumida</i> | 425-500 | 1 | 1.33 | 1.46 | 105 | MIS 6 | 20111114 |
| VM24-110 | 208 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | 0.12 | 154 | MIS 6 | 20111114 |

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| VM24-110 | 208 | <i>G. tumida</i> | 425-500 | 1 | 1.45 | 0.82 | 111 | MIS 6 | 20111114 |
| VM24-110 | 208 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | 0.18 | 156 | MIS 6 | 20111114 |
| VM24-110 | 212 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | -0.41 | 130 | MIS 6 | 20111114 |
| VM24-110 | 212 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | -0.96 | 134 | MIS 6 | 20111114 |
| VM24-110 | 212 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -0.10 | 117 | MIS 6 | 20111114 |
| VM24-110 | 212 | <i>G. tumida</i> | 425-500 | 1 | 1.78 | -1.14 | 127 | MIS 6 | 20111114 |
| VM24-110 | 212 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | 0.62 | 115 | MIS 6 | 20111114 |
| VM24-110 | 212 | <i>G. tumida</i> | 425-500 | 1 | 1.40 | -0.42 | 116 | MIS 6 | 20111114 |
| VM24-110 | 212 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | 0.32 | 162 | MIS 6 | 20111114 |
| VM24-110 | 212 | <i>G. tumida</i> | 425-500 | 1 | 1.58 | 0.56 | 133 | MIS 6 | 20111114 |
| VM24-110 | 216 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | -0.35 | 136 | MIS 6 | 20111114 |
| VM24-110 | 216 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.66 | 149 | MIS 6 | 20111114 |
| VM24-110 | 216 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | 0.25 | 150 | MIS 6 | 20111114 |
| VM24-110 | 216 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | 0.65 | 130 | MIS 6 | 20111114 |
| VM24-110 | 216 | <i>G. tumida</i> | 425-500 | 1 | 1.49 | 0.11 | 133 | MIS 6 | 20111114 |
| VM24-110 | 216 | <i>G. tumida</i> | 425-500 | 1 | 1.55 | 0.37 | 151 | MIS 6 | 20111114 |

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| VM24-110 | 216 | <i>G. tumida</i> | 425-500 | 1 | 1.58 | 0.99 | 141 | MIS 6 | 20111115 |
| VM24-110 | 216 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | 0.20 | 114 | MIS 6 | 20111115 |
| VM24-110 | 220 | <i>G. tumida</i> | 425-500 | 1 | 1.46 | -0.47 | 123 | MIS 6 | 20111115 |
| VM24-110 | 220 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | 0.06 | 93 | MIS 6 | 20111115 |
| VM24-110 | 220 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -0.45 | 110 | MIS 6 | 20111115 |
| VM24-110 | 220 | <i>G. tumida</i> | 425-500 | 1 | 1.38 | 1.67 | 103 | MIS 6 | 20111115 |
| VM24-110 | 220 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | 0.16 | 119 | MIS 6 | 20111115 |
| VM24-110 | 220 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | -0.71 | 152 | MIS 6 | 20111115 |
| VM24-110 | 220 | <i>G. tumida</i> | 425-500 | 1 | 1.34 | 0.15 | 87 | MIS 6 | 20111115 |
| VM24-110 | 220 | <i>G. tumida</i> | 425-500 | 1 | 1.59 | 0.83 | 135 | MIS 6 | 20111115 |
| VM24-110 | 220 | <i>G. tumida</i> | 425-500 | 1 | 1.44 | -0.35 | 122 | MIS 6 | 20111115 |
| VM24-110 | 20 | <i>G. ruber</i> | 250-355 | 8 | 1.48 | -1.77 | | | 20080121 |
| VM24-110 | 24 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -1.11 | | LGM | 20080121 |
| VM24-110 | 28 | <i>G. ruber</i> | 250-355 | 10 | 1.45 | -1.35 | | | 20080121 |
| VM24-110 | 32 | <i>G. ruber</i> | 250-355 | 10 | 1.28 | -1.33 | | | 20080121 |
| VM24-110 | 36 | <i>G. ruber</i> | 250-355 | 3 | 1.27 | -1.45 | | | 20080121 |

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|----------|----|-----------------|---------|----|------|-------|-----|-----|----------|
| VM24-110 | 44 | <i>G. ruber</i> | 250-355 | 10 | 1.53 | -1.44 | | | 20080121 |
| VM24-110 | 48 | <i>G. ruber</i> | 250-355 | 10 | 1.31 | -1.54 | | | 20080121 |
| VM24-110 | 52 | <i>G. ruber</i> | 250-355 | 10 | 1.52 | -1.73 | | | 20080121 |
| VM24-110 | 56 | <i>G. ruber</i> | 250-355 | 10 | 1.34 | -1.80 | | | 20080121 |
| VM24-110 | 60 | <i>G. ruber</i> | 250-355 | 10 | 1.34 | -1.65 | | | 20080121 |
| VM24-110 | 24 | <i>G. ruber</i> | 250-355 | 10 | 1.49 | -1.19 | 121 | LGM | 20091117 |
| VM24-110 | 20 | <i>G. ruber</i> | 250-355 | 10 | 1.21 | -1.90 | 117 | | 20091117 |
| VM24-110 | 16 | <i>G. ruber</i> | 250-355 | 10 | 1.27 | -2.33 | 109 | | 20091117 |
| VM24-110 | 12 | <i>G. ruber</i> | 250-355 | 10 | 1.52 | -2.50 | 117 | | 20091117 |
| VM24-110 | 8 | <i>G. ruber</i> | 250-355 | 10 | 1.50 | -2.50 | 106 | | 20091117 |
| VM24-110 | 4 | <i>G. ruber</i> | 250-355 | 10 | 1.42 | -2.33 | 112 | | 20091117 |
| VM24-110 | 2 | <i>G. ruber</i> | 250-355 | 10 | 1.40 | -2.14 | 119 | | 20091117 |
| VM24-110 | 32 | <i>G. ruber</i> | 250-355 | 10 | 1.46 | -1.47 | 120 | | 20091117 |
| VM24-110 | 28 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -1.56 | 119 | | 20091117 |
| VM24-110 | 64 | <i>G. ruber</i> | 250-355 | 10 | 1.43 | -1.72 | 113 | | 20101118 |
| VM24-110 | 64 | <i>G. ruber</i> | 250-355 | 10 | 1.30 | -1.75 | 117 | | 20101118 |

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| VM24-110 | 68 | <i>G. ruber</i> | 250-355 | 10 | 1.19 | -1.68 | 128 | 20101118 |
| VM24-110 | 68 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -1.68 | 122 | 20101118 |
| VM24-110 | 72 | <i>G. ruber</i> | 250-355 | 10 | 1.20 | -1.66 | 167 | 20101118 |
| VM24-110 | 72 | <i>G. ruber</i> | 250-355 | 10 | 0.98 | -1.75 | 124 | 20101118 |
| VM24-110 | 76 | <i>G. ruber</i> | 250-355 | 10 | 1.14 | -1.61 | 118 | 20101118 |
| VM24-110 | 76 | <i>G. ruber</i> | 250-355 | 10 | 1.02 | -1.67 | 119 | 20101118 |
| VM24-110 | 80 | <i>G. ruber</i> | 250-355 | 10 | 1.20 | -1.73 | 117 | 20101118 |
| VM24-110 | 80 | <i>G. ruber</i> | 250-355 | 10 | 1.15 | -1.58 | 111 | 20101118 |
| VM24-110 | 84 | <i>G. ruber</i> | 250-355 | 10 | 1.10 | -1.71 | 106 | 20101118 |
| VM24-110 | 84 | <i>G. ruber</i> | 250-355 | 10 | 1.17 | -1.67 | 107 | 20101118 |
| VM24-110 | 88 | <i>G. ruber</i> | 250-355 | 10 | 1.07 | -1.74 | 101 | 20101118 |
| VM24-110 | 88 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -1.65 | 105 | 20101118 |
| VM24-110 | 92 | <i>G. ruber</i> | 250-355 | 10 | 1.49 | -1.80 | 104 | 20101118 |
| VM24-110 | 92 | <i>G. ruber</i> | 250-355 | 10 | 1.34 | -1.75 | 102 | 20101118 |
| VM24-110 | 96 | <i>G. ruber</i> | 250-355 | 10 | 1.49 | -1.83 | 109 | 20101118 |
| VM24-110 | 96 | <i>G. ruber</i> | 250-355 | 10 | 1.23 | -1.67 | 125 | 20101118 |

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| VM24-110 | 100 | <i>G. ruber</i> | 250-355 | 10 | 1.46 | -2.01 | 115 | 20101118 |
| VM24-110 | 100 | <i>G. ruber</i> | 250-355 | 10 | 1.31 | -2.13 | 93 | 20101118 |
| VM24-110 | 104 | <i>G. ruber</i> | 250-355 | 10 | 1.36 | -2.02 | 110 | 20101118 |
| VM24-110 | 104 | <i>G. ruber</i> | 250-355 | 10 | 1.41 | -1.84 | 128 | 20101118 |
| VM24-110 | 108 | <i>G. ruber</i> | 250-355 | 10 | 1.55 | -2.03 | 107 | 20101118 |
| VM24-110 | 108 | <i>G. ruber</i> | 250-355 | 10 | 1.31 | -2.01 | 109 | 20101118 |
| VM24-110 | 112 | <i>G. ruber</i> | 250-355 | 10 | 1.44 | -2.12 | 115 | 20101118 |
| VM24-110 | 116 | <i>G. ruber</i> | 250-355 | 10 | 1.00 | -1.82 | 97 | 20101118 |
| VM24-110 | 116 | <i>G. ruber</i> | 250-355 | 10 | 1.20 | -2.10 | 117 | 20101118 |
| VM24-110 | 120 | <i>G. ruber</i> | 250-355 | 10 | 1.52 | -2.14 | 133 | 20101118 |
| VM24-110 | 120 | <i>G. ruber</i> | 250-355 | 10 | 1.24 | -2.07 | 133 | 20101118 |
| VM24-110 | 124 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -1.69 | 131 | 20101118 |
| VM24-110 | 124 | <i>G. ruber</i> | 250-355 | 10 | 1.23 | -2.02 | 136 | 20101118 |
| VM24-110 | 128 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -1.77 | 121 | 20101118 |
| VM24-110 | 128 | <i>G. ruber</i> | 250-355 | 10 | 1.60 | -2.16 | 142 | 20101118 |
| VM24-110 | 162 | <i>G. ruber</i> | 250-355 | 10 | 1.39 | -2.01 | 136 | 20101118 |

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|----------|-----|-----------------|---------|----|------|-------|-----|----------|
| VM24-110 | 162 | <i>G. ruber</i> | 250-355 | 10 | 1.43 | -2.02 | 123 | 20101118 |
| VM24-110 | 136 | <i>G. ruber</i> | 250-355 | 10 | 1.40 | -2.10 | 106 | 20101118 |
| VM24-110 | 136 | <i>G. ruber</i> | 250-355 | 10 | 1.15 | -2.06 | 114 | 20101118 |
| VM24-110 | 140 | <i>G. ruber</i> | 250-355 | 10 | 1.27 | -2.15 | 142 | 20101122 |
| VM24-110 | 140 | <i>G. ruber</i> | 250-355 | 10 | 1.31 | -2.10 | 111 | 20101122 |
| VM24-110 | 144 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -2.19 | 102 | 20101122 |
| VM24-110 | 144 | <i>G. ruber</i> | 250-355 | 10 | 1.27 | -2.09 | 102 | 20101122 |
| VM24-110 | 148 | <i>G. ruber</i> | 250-355 | 10 | 1.42 | -2.03 | 117 | 20101122 |
| VM24-110 | 148 | <i>G. ruber</i> | 250-355 | 10 | 1.58 | -2.08 | 113 | 20101122 |
| VM24-110 | 152 | <i>G. ruber</i> | 250-355 | 10 | 1.02 | -2.10 | 105 | 20101122 |
| VM24-110 | 152 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -1.97 | 132 | 20101122 |
| VM24-110 | 156 | <i>G. ruber</i> | 250-355 | 10 | 1.44 | -2.32 | 143 | 20101122 |
| VM24-110 | 156 | <i>G. ruber</i> | 250-355 | 10 | 1.30 | -2.30 | 157 | 20101122 |
| VM24-110 | 160 | <i>G. ruber</i> | 250-355 | 10 | 1.01 | -2.43 | 118 | 20101122 |
| VM24-110 | 160 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -2.46 | 139 | 20101122 |
| VM24-110 | 164 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -2.29 | 135 | 20101122 |

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|----------|-----|-----------------|---------|----|------|-------|-----|----------|
| VM24-110 | 164 | <i>G. ruber</i> | 250-355 | 10 | 1.00 | -2.19 | 132 | 20101122 |
| VM24-110 | 168 | <i>G. ruber</i> | 250-355 | 10 | 0.66 | -2.29 | 101 | 20101122 |
| VM24-110 | 172 | <i>G. ruber</i> | 250-355 | 10 | 0.86 | -1.83 | 107 | 20101122 |
| VM24-110 | 172 | <i>G. ruber</i> | 250-355 | 10 | 0.95 | -1.77 | 138 | 20101122 |
| VM24-110 | 176 | <i>G. ruber</i> | 250-355 | 10 | 1.00 | -1.65 | 141 | 20101122 |
| VM24-110 | 176 | <i>G. ruber</i> | 250-355 | 10 | 1.03 | -1.64 | 129 | 20101122 |
| VM24-110 | 180 | <i>G. ruber</i> | 250-355 | 10 | 1.04 | -1.38 | 122 | 20101122 |
| VM24-110 | 180 | <i>G. ruber</i> | 250-355 | 10 | 1.02 | -1.58 | 125 | 20101122 |
| VM24-110 | 184 | <i>G. ruber</i> | 250-355 | 10 | 1.06 | -1.35 | 111 | 20101122 |
| VM24-110 | 184 | <i>G. ruber</i> | 250-355 | 10 | 0.78 | -1.24 | 124 | 20101122 |
| VM24-110 | 188 | <i>G. ruber</i> | 250-355 | 10 | 0.89 | -1.37 | 131 | 20101124 |
| VM24-110 | 188 | <i>G. ruber</i> | 250-355 | 10 | 1.04 | -1.46 | 115 | 20101124 |
| VM24-110 | 192 | <i>G. ruber</i> | 250-355 | 10 | 0.79 | -1.53 | 105 | 20101124 |
| VM24-110 | 192 | <i>G. ruber</i> | 250-355 | 10 | 0.88 | -1.54 | 101 | 20101124 |
| VM24-110 | 196 | <i>G. ruber</i> | 250-355 | 10 | 0.91 | -1.30 | 163 | 20101124 |
| VM24-110 | 196 | <i>G. ruber</i> | 250-355 | 10 | 0.94 | -1.46 | 126 | 20101124 |

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|----------|-----|-----------------|---------|----|------|-------|-----|----------|
| VM24-110 | 200 | <i>G. ruber</i> | 250-355 | 10 | 0.90 | -1.35 | 114 | 20101124 |
| VM24-110 | 200 | <i>G. ruber</i> | 250-355 | 10 | 0.91 | -1.29 | 110 | 20101124 |
| VM24-110 | 204 | <i>G. ruber</i> | 250-355 | 10 | 0.95 | -1.43 | 118 | 20101124 |
| VM24-110 | 204 | <i>G. ruber</i> | 250-355 | 10 | 0.65 | -1.27 | 118 | 20101124 |
| VM24-110 | 208 | <i>G. ruber</i> | 250-355 | 10 | 0.64 | -1.34 | 102 | 20101124 |
| VM24-110 | 208 | <i>G. ruber</i> | 250-355 | 10 | 0.84 | -1.43 | 103 | 20101124 |
| VM24-110 | 212 | <i>G. ruber</i> | 250-355 | 10 | 1.05 | -1.32 | 104 | 20101124 |
| VM24-110 | 212 | <i>G. ruber</i> | 250-355 | 10 | 1.05 | -1.39 | 138 | 20101124 |
| VM24-110 | 216 | <i>G. ruber</i> | 250-355 | 10 | 0.92 | -1.58 | 125 | 20101124 |
| VM24-110 | 216 | <i>G. ruber</i> | 250-355 | 10 | 0.77 | -1.52 | 100 | 20101124 |
| VM24-110 | 220 | <i>G. ruber</i> | 250-355 | 10 | 1.06 | -1.53 | 102 | 20101124 |
| VM24-110 | 220 | <i>G. ruber</i> | 250-355 | 10 | 0.93 | -1.73 | 136 | 20101124 |
| VM24-110 | 224 | <i>G. ruber</i> | 250-355 | 10 | 1.04 | -1.47 | 120 | 20101124 |
| VM24-110 | 224 | <i>G. ruber</i> | 250-355 | 10 | 0.95 | -1.61 | 127 | 20101124 |
| VM24-110 | 228 | <i>G. ruber</i> | 250-355 | 10 | 0.96 | -1.78 | 112 | 20101124 |
| VM24-110 | 228 | <i>G. ruber</i> | 250-355 | 10 | 0.97 | -1.71 | 107 | 20101124 |

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|----------|-----|---------------------------|---------|----|------|-------|-----|----------|
| VM24-110 | 232 | <i>G. ruber</i> | 250-355 | 10 | 0.97 | -1.80 | 97 | 20101124 |
| VM24-110 | 232 | <i>G. ruber</i> | 250-355 | 10 | 1.10 | -1.64 | 130 | 20101124 |
| VM24-110 | 236 | <i>G. ruber</i> | 250-355 | 10 | 1.07 | -1.77 | 118 | 20101124 |
| VM24-110 | 236 | <i>G. ruber</i> | 250-355 | 10 | 1.00 | -1.67 | 101 | 20101124 |
| VM24-110 | 240 | <i>G. ruber</i> | 250-355 | 10 | 0.86 | -1.55 | 105 | 20101124 |
| VM24-110 | 240 | <i>G. ruber</i> | 250-355 | 10 | 0.69 | -1.68 | 114 | 20101124 |
| VM24-110 | 244 | <i>G. ruber</i> | 250-355 | 10 | 1.04 | -1.57 | 123 | 20101124 |
| VM24-110 | 244 | <i>G. ruber</i> | 250-355 | 10 | 0.90 | -1.66 | 114 | 20101124 |
| VM24-110 | 248 | <i>G. ruber</i> | 250-355 | 10 | 0.92 | -1.67 | 120 | 20101124 |
| VM24-110 | 248 | <i>G. ruber</i> | 250-355 | 10 | 1.24 | -1.70 | 100 | 20101124 |
| VM24-110 | 252 | <i>G. ruber</i> | 250-355 | 10 | 1.01 | -1.55 | 108 | 20101124 |
| VM24-110 | 252 | <i>G. ruber</i> | 250-355 | 10 | 0.88 | -1.49 | 90 | 20101124 |
| VM24-110 | 112 | <i>G. ruber</i> | 250-355 | 10 | 1.41 | -2.03 | 120 | 20101124 |
| VM24-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.36 | -0.07 | 72 | 20110622 |
| VM24-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.07 | -1.80 | 52 | 20110622 |
| VM24-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.45 | -0.38 | 52 | 20111121 |

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|----------|----|---------------------------|---------|---|------|-------|-----|----------|
| VM24-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.40 | -0.18 | 42 | 20111121 |
| VM24-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.26 | -1.68 | 49 | 20111121 |
| VM24-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.35 | -0.03 | 50 | 20111121 |
| VM24-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.57 | -1.10 | 41 | 20111121 |
| VM24-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.42 | 0.01 | 38 | 20111121 |
| VM24-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.31 | -0.01 | 35 | 20111121 |
| VM24-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.04 | -0.35 | 23 | 20111214 |
| VM24-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.40 | -0.08 | 40 | 20111214 |
| VM24-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.20 | 0.30 | 31 | 20111214 |
| VM24-110 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.13 | -0.05 | 29 | 20111214 |
| VM24-109 | 1 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | -0.26 | 148 | 20090406 |
| VM24-109 | 1 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | -0.84 | 156 | 20090406 |
| VM24-109 | 1 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -0.79 | 163 | 20090406 |
| VM24-109 | 1 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | -1.75 | 108 | 20090406 |
| VM24-109 | 1 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | -0.89 | 116 | 20090408 |
| VM24-109 | 1 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | -0.73 | 162 | 20090408 |

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|----------|-----|------------------|---------|---|------|-------|-----|----------|
| VM24-109 | 180 | <i>G. tumida</i> | 425-500 | 1 | 1.56 | -1.02 | 139 | 20120501 |
| VM24-109 | 180 | <i>G. tumida</i> | 425-500 | 1 | 1.38 | -0.93 | 133 | 20120501 |
| VM24-109 | 180 | <i>G. tumida</i> | 425-500 | 1 | 1.49 | -0.74 | 139 | 20120501 |
| VM24-109 | 180 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | -0.87 | 129 | 20120501 |
| VM24-109 | 180 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -0.95 | 117 | 20120501 |
| VM24-109 | 190 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | -1.09 | 155 | 20120501 |
| VM24-109 | 190 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | -0.73 | 132 | 20120501 |
| VM24-109 | 190 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | -0.24 | 129 | 20120501 |
| VM24-109 | 190 | <i>G. tumida</i> | 425-500 | 1 | 1.61 | -1.11 | 131 | 20120501 |
| VM24-109 | 190 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | -0.24 | 102 | 20120501 |
| VM24-109 | 200 | <i>G. tumida</i> | 425-500 | 1 | 1.57 | -0.14 | 138 | 20120501 |
| VM24-109 | 200 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | -0.53 | 111 | 20120501 |
| VM24-109 | 200 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | -0.96 | 141 | 20120501 |
| VM24-109 | 200 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | -0.33 | 111 | 20120501 |
| VM24-109 | 200 | <i>G. tumida</i> | 425-500 | 1 | 1.65 | -0.48 | 105 | 20120501 |
| VM24-109 | 210 | <i>G. tumida</i> | 425-500 | 1 | 1.59 | 1.01 | 125 | 20120501 |

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| VM24-109 | 210 | <i>G. tumida</i> | 425-500 | 1 | 1.36 | 1.16 | 154 | 20120501 |
| VM24-109 | 210 | <i>G. tumida</i> | 425-500 | 1 | 1.40 | 0.53 | 159 | 20120501 |
| VM24-109 | 210 | <i>G. tumida</i> | 425-500 | 1 | 1.30 | -0.67 | 134 | 20120501 |
| VM24-109 | 210 | <i>G. tumida</i> | 425-500 | 1 | 1.56 | 1.07 | 144 | 20120501 |
| VM24-109 | 220 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | 0.78 | 123 | 20120501 |
| VM24-109 | 220 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | -0.19 | 125 | 20120501 |
| VM24-109 | 220 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | -0.23 | 143 | 20120501 |
| VM24-109 | 220 | <i>G. tumida</i> | 425-500 | 1 | 1.78 | 0.41 | 157 | 20120501 |
| VM24-109 | 220 | <i>G. tumida</i> | 425-500 | 1 | 1.47 | 0.29 | 128 | 20120501 |
| VM24-109 | 230 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | -0.05 | 122 | 20120502 |
| VM24-109 | 230 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | 0.30 | 161 | 20120502 |
| VM24-109 | 230 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | 0.32 | 151 | 20120502 |
| VM24-109 | 230 | <i>G. tumida</i> | 425-500 | 1 | 1.63 | -0.06 | 124 | 20120502 |
| VM24-109 | 230 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | 0.44 | 119 | 20120502 |
| VM24-109 | 240 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | 0.57 | 131 | 20120502 |
| VM24-109 | 240 | <i>G. tumida</i> | 425-500 | 1 | 1.76 | 0.65 | 112 | 20120502 |

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| VM24-109 | 240 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | 0.48 | 160 | 20120502 |
| VM24-109 | 240 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | 0.09 | 154 | 20120502 |
| VM24-109 | 240 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | -0.37 | 144 | 20120502 |
| VM24-109 | 250 | <i>G. tumida</i> | 425-500 | 1 | 1.62 | -0.18 | 134 | 20120502 |
| VM24-109 | 250 | <i>G. tumida</i> | 425-500 | 1 | 1.62 | 0.30 | 121 | 20120502 |
| VM24-109 | 250 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | -0.28 | 147 | 20120502 |
| VM24-109 | 250 | <i>G. tumida</i> | 425-500 | 1 | 1.52 | -0.53 | 144 | 20120502 |
| VM24-109 | 250 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | -0.01 | 111 | 20120502 |
| VM24-109 | 80 | <i>G. ruber</i> | 250-355 | 10 | 1.32 | -1.65 | 92 | 20120412 |
| VM24-109 | 80 | <i>G. ruber</i> | 250-355 | 10 | 1.34 | -1.30 | 94 | 20120412 |
| VM24-109 | 90 | <i>G. ruber</i> | 250-355 | 10 | 1.43 | -1.48 | 103 | 20120412 |
| VM24-109 | 90 | <i>G. ruber</i> | 250-355 | 10 | 1.39 | -1.76 | 125 | 20120412 |
| VM24-109 | 100 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -1.46 | 100 | 20120412 |
| VM24-109 | 100 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -1.68 | 99 | 20120412 |
| VM24-109 | 110 | <i>G. ruber</i> | 250-355 | 10 | 1.22 | -1.49 | 100 | 20120412 |
| VM24-109 | 110 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -1.66 | 105 | 20120412 |

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|----------|-----|-----------------|---------|----|------|-------|-----|----------|
| VM24-109 | 120 | <i>G. ruber</i> | 250-355 | 10 | 1.27 | -1.52 | 88 | 20120412 |
| VM24-109 | 120 | <i>G. ruber</i> | 250-355 | 10 | 1.32 | -1.57 | 92 | 20120412 |
| VM24-109 | 130 | <i>G. ruber</i> | 250-355 | 10 | 1.52 | -2.00 | 100 | 20120412 |
| VM24-109 | 130 | <i>G. ruber</i> | 250-355 | 10 | 1.45 | -1.99 | 76 | 20120412 |
| VM24-109 | 140 | <i>G. ruber</i> | 250-355 | 10 | 1.47 | -1.95 | 102 | 20120412 |
| VM24-109 | 140 | <i>G. ruber</i> | 250-355 | 10 | 1.44 | -1.85 | 103 | 20120412 |
| VM24-109 | 150 | <i>G. ruber</i> | 250-355 | 10 | 1.47 | -1.77 | 86 | 20120412 |
| VM24-109 | 150 | <i>G. ruber</i> | 250-355 | 10 | 1.27 | -1.86 | 95 | 20120412 |
| VM24-109 | 145 | <i>G. ruber</i> | 250-355 | 10 | 1.53 | -1.98 | 93 | 20120412 |
| VM24-109 | 145 | <i>G. ruber</i> | 250-355 | 10 | 1.41 | -1.89 | 96 | 20120412 |
| VM24-109 | 155 | <i>G. ruber</i> | 250-355 | 10 | 1.75 | -1.97 | 94 | 20120412 |
| VM24-109 | 155 | <i>G. ruber</i> | 250-355 | 10 | 1.72 | -1.93 | 88 | 20120412 |
| VM24-109 | 160 | <i>G. ruber</i> | 250-355 | 10 | 1.80 | -1.99 | 96 | 20120416 |
| VM24-109 | 160 | <i>G. ruber</i> | 250-355 | 10 | 1.76 | -1.91 | 115 | 20120416 |
| VM24-109 | 170 | <i>G. ruber</i> | 250-355 | 10 | 1.67 | -2.02 | 107 | 20120416 |
| VM24-109 | 170 | <i>G. ruber</i> | 250-355 | 10 | 1.49 | -1.97 | 113 | 20120416 |

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|----------|-----|-----------------|---------|----|------|-------|-----|----------|
| VM24-109 | 180 | <i>G. ruber</i> | 250-355 | 10 | 1.38 | -2.01 | 102 | 20120416 |
| VM24-109 | 180 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -1.95 | 97 | 20120416 |
| VM24-109 | 190 | <i>G. ruber</i> | 250-355 | 10 | 1.10 | -2.10 | 93 | 20120416 |
| VM24-109 | 190 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -1.86 | 90 | 20120416 |
| VM24-109 | 200 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -1.71 | 109 | 20120416 |
| VM24-109 | 200 | <i>G. ruber</i> | 250-355 | 10 | 1.40 | -1.64 | 112 | 20120416 |
| VM24-109 | 210 | <i>G. ruber</i> | 250-355 | 10 | 0.88 | -1.36 | 124 | 20120416 |
| VM24-109 | 210 | <i>G. ruber</i> | 250-355 | 10 | 1.12 | -1.79 | 125 | 20120416 |
| VM24-109 | 220 | <i>G. ruber</i> | 250-355 | 10 | 0.66 | -1.19 | 98 | 20120416 |
| VM24-109 | 220 | <i>G. ruber</i> | 250-355 | 10 | 0.82 | -1.36 | 118 | 20120416 |
| VM24-109 | 230 | <i>G. ruber</i> | 250-355 | 10 | 0.93 | -1.41 | 98 | 20120416 |
| VM24-109 | 230 | <i>G. ruber</i> | 250-355 | 10 | 0.97 | -1.12 | 120 | 20120416 |
| VM24-109 | 240 | <i>G. ruber</i> | 250-355 | 10 | 0.84 | -1.14 | 109 | 20120416 |
| VM24-109 | 240 | <i>G. ruber</i> | 250-355 | 10 | 1.03 | -1.13 | 112 | 20120416 |
| VM24-109 | 250 | <i>G. ruber</i> | 250-355 | 10 | 1.10 | -1.41 | 123 | 20120416 |
| VM24-109 | 250 | <i>G. ruber</i> | 250-355 | 10 | 0.90 | -1.47 | 112 | 20120416 |

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|----------|----|------------------|---------|---|------|-------|----------|
| RC10-141 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | 0.16 | 20061023 |
| RC10-141 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -0.70 | 20061023 |
| RC10-141 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | -0.03 | 20061023 |
| RC10-141 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | -0.20 | 20061023 |
| RC10-141 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | 0.27 | 20061023 |
| RC10-141 | 60 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | -0.31 | 20061023 |
| RC10-141 | 64 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -0.22 | 20061023 |
| RC10-141 | 68 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | 0.44 | 20061023 |
| RC10-141 | 72 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | -0.19 | 20061023 |
| RC10-141 | 76 | <i>G. tumida</i> | 425-500 | 1 | 2.26 | 0.10 | 20061023 |
| RC10-141 | 80 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.60 | 20061023 |
| RC10-141 | 84 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.66 | 20061023 |
| RC10-141 | 88 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | -0.41 | 20061023 |
| RC10-141 | 92 | <i>G. tumida</i> | 425-500 | 1 | 2.35 | -0.23 | 20061023 |
| RC10-141 | 96 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | 0.59 | 20061023 |
| RC10-141 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | -1.31 | 20061023 |

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|----------|----|------------------|---------|---|------|-------|----------|
| RC10-141 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.23 | -1.59 | 20061023 |
| RC10-141 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | 0.92 | 20061023 |
| RC10-141 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | 1.16 | 20061023 |
| RC10-141 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | -0.37 | 20061023 |
| RC10-141 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | 0.65 | 20061023 |
| RC10-141 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.43 | -0.04 | 20061023 |
| RC10-141 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | 0.63 | 20061023 |
| RC10-141 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | -1.07 | 20061023 |
| RC10-141 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | 0.78 | 20061023 |
| RC10-141 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | 0.40 | 20061023 |
| RC10-141 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.58 | -0.53 | 20061023 |
| RC10-141 | 52 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | 0.88 | 20061023 |
| RC10-141 | 56 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | 0.86 | 20061023 |
| RC10-141 | 60 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -0.54 | 20061023 |
| RC10-141 | 64 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | 0.38 | 20061023 |
| RC10-141 | 68 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -0.18 | 20061023 |

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|----------|----|------------------|---------|---|------|-------|----------|
| RC10-141 | 72 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | 0.47 | 20061023 |
| RC10-141 | 76 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | -0.11 | 20061221 |
| RC10-141 | 80 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | -0.31 | 20061221 |
| RC10-141 | 84 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | 0.52 | 20061221 |
| RC10-141 | 88 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | -0.36 | 20061221 |
| RC10-141 | 92 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | -0.11 | 20061221 |
| RC10-141 | 96 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | -0.66 | 20061221 |
| RC10-141 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | -0.88 | 20061012 |
| RC10-141 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | -1.07 | 20061012 |
| RC10-141 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | 0.05 | 20061012 |
| RC10-141 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | -0.53 | 20061012 |
| RC10-141 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.56 | -0.37 | 20061012 |
| RC10-141 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.48 | -0.56 | 20061012 |
| RC10-141 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | 0.35 | 20061012 |
| RC10-141 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | 0.51 | 20061012 |
| RC10-141 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 0.42 | 20061012 |

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|----------|----|------------------|---------|---|------|-------|----------|
| RC10-141 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | 0.01 | 20061012 |
| RC10-141 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | 0.59 | 20061012 |
| RC10-141 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | -0.25 | 20061012 |
| RC10-141 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.87 | 20061012 |
| RC10-141 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -0.05 | 20061012 |
| RC10-141 | 60 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | -0.18 | 20061012 |
| RC10-141 | 64 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -0.11 | 20061012 |
| RC10-141 | 68 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | 0.06 | 20061012 |
| RC10-141 | 72 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -0.04 | 20061012 |
| RC10-141 | 76 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.11 | 20061012 |
| RC10-141 | 80 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | -0.31 | 20061012 |
| RC10-141 | 84 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | -0.11 | 20061012 |
| RC10-141 | 88 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -0.59 | 20061012 |
| RC10-141 | 92 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.09 | 20061012 |
| RC10-141 | 96 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | 0.20 | 20061012 |
| RC10-141 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | -0.91 | 20061012 |

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|----------|----|------------------|---------|---|------|-------|-----|----------|
| RC10-141 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -1.36 | | 20061012 |
| RC10-141 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.40 | -1.06 | | 20061012 |
| RC10-141 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.60 | 1.39 | | 20061012 |
| RC10-141 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.66 | -1.06 | | 20061012 |
| RC10-141 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | -0.57 | | 20061012 |
| RC10-141 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | -0.28 | | 20061012 |
| RC10-141 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | 0.45 | | 20061012 |
| RC10-141 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | 0.30 | | 20061012 |
| RC10-141 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.51 | 0.09 | 107 | 20081206 |
| RC10-141 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.31 | 0.05 | 124 | 20081206 |
| RC10-141 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | 0.09 | 144 | 20090123 |
| RC10-141 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.40 | -1.14 | 98 | 20090123 |
| RC10-141 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | 1.08 | 128 | 20090123 |
| RC10-141 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | 1.05 | 119 | 20090123 |
| RC10-141 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | 0.90 | 132 | 20090123 |
| RC10-141 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | 1.16 | 143 | 20090123 |

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| RC10-141 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | -1.21 | 151 | 20090406 |
| RC10-141 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -0.67 | 110 | 20090406 |
| RC10-141 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | -1.17 | 140 | 20090406 |
| RC10-141 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.76 | -1.01 | 142 | 20090406 |
| RC10-141 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | -0.82 | 139 | 20090406 |
| RC10-141 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | -1.20 | 113 | 20090406 |
| RC10-141 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -0.99 | 119 | 20090406 |
| RC10-141 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.56 | -0.94 | 113 | 20090406 |
| RC10-141 | 16 | <i>G. ruber</i> | 250-355 | 10 | 1.59 | -2.03 | | 20070916 |
| RC10-141 | 20 | <i>G. ruber</i> | 250-355 | 10 | 1.20 | -2.31 | | 20070916 |
| RC10-141 | 24 | <i>G. ruber</i> | 250-355 | 10 | 1.43 | -2.08 | | 20070916 |
| RC10-141 | 28 | <i>G. ruber</i> | 250-355 | 10 | 1.39 | -1.49 | | 20070916 |
| RC10-141 | 32 | <i>G. ruber</i> | 250-355 | 10 | 1.47 | -1.40 | | 20070916 |
| RC10-141 | 36 | <i>G. ruber</i> | 250-355 | 10 | 1.29 | -1.32 | | 20070916 |
| RC10-141 | 40 | <i>G. ruber</i> | 250-355 | 10 | 1.60 | -1.41 | | 20070916 |
| RC10-141 | 44 | <i>G. ruber</i> | 250-355 | 10 | 1.33 | -1.51 | | 20070916 |

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| RC10-141 | 48 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -1.50 | | 20070916 |
| RC10-141 | 52 | <i>G. ruber</i> | 250-355 | 10 | 0.98 | -1.39 | | 20070916 |
| RC10-141 | 56 | <i>G. ruber</i> | 250-355 | 10 | 1.45 | -1.54 | | 20071010 |
| RC10-141 | 60 | <i>G. ruber</i> | 250-355 | 10 | 1.28 | -1.41 | | 20071010 |
| RC10-141 | 100 | <i>G. ruber</i> | 250-355 | 10 | 1.23 | -1.72 | 122 | 20110610 |
| RC10-141 | 100 | <i>G. ruber</i> | 250-355 | 10 | 1.02 | -1.77 | 122 | 20110610 |
| RC10-141 | 104 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -1.77 | 136 | 20110610 |
| RC10-141 | 104 | <i>G. ruber</i> | 250-355 | 10 | 1.30 | -1.77 | 134 | 20110610 |
| RC10-141 | 108 | <i>G. ruber</i> | 250-355 | 10 | 1.31 | -1.47 | 114 | 20110610 |
| RC10-141 | 108 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -1.67 | 131 | 20110610 |
| RC10-141 | 112 | <i>G. ruber</i> | 250-355 | 10 | 1.11 | -1.61 | 125 | 20110610 |
| RC10-141 | 112 | <i>G. ruber</i> | 250-355 | 10 | 1.04 | -1.58 | 121 | 20110610 |
| RC10-141 | 116 | <i>G. ruber</i> | 250-355 | 10 | 1.20 | -1.62 | 120 | 20110610 |
| RC10-141 | 116 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -1.66 | 119 | 20110610 |
| RC10-141 | 120 | <i>G. ruber</i> | 250-355 | 10 | 1.23 | -1.39 | 97 | 20110610 |
| RC10-141 | 120 | <i>G. ruber</i> | 250-355 | 10 | 0.93 | -1.76 | 90 | 20110610 |

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| RC10-141 | 124 | <i>G. ruber</i> | 250-355 | 10 | 1.53 | -1.89 | 115 | 20110610 |
| RC10-141 | 124 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -1.57 | 107 | 20110610 |
| RC10-141 | 128 | <i>G. ruber</i> | 250-355 | 10 | 1.40 | -1.79 | 100 | 20110610 |
| RC10-141 | 128 | <i>G. ruber</i> | 250-355 | 10 | 1.60 | -1.77 | 110 | 20110610 |
| RC10-141 | 132 | <i>G. ruber</i> | 250-355 | 10 | 1.27 | -1.89 | 104 | 20110610 |
| RC10-141 | 132 | <i>G. ruber</i> | 250-355 | 10 | 1.24 | -1.86 | 112 | 20110610 |
| RC10-141 | 136 | <i>G. ruber</i> | 250-355 | 10 | 1.46 | -2.03 | 111 | 20110610 |
| RC10-141 | 136 | <i>G. ruber</i> | 250-355 | 10 | 1.61 | -1.91 | 101 | 20110610 |
| RC10-141 | 140 | <i>G. ruber</i> | 250-355 | 10 | 1.68 | -2.03 | 116 | 20110610 |
| RC10-141 | 140 | <i>G. ruber</i> | 250-355 | 10 | 1.76 | -2.01 | 105 | 20110610 |
| RC10-141 | 144 | <i>G. ruber</i> | 250-355 | 10 | 1.57 | -1.90 | 101 | 20110610 |
| RC10-141 | 144 | <i>G. ruber</i> | 250-355 | 10 | 1.50 | -2.05 | 109 | 20110610 |
| RC10-141 | 148 | <i>G. ruber</i> | 250-355 | 10 | 1.24 | -1.84 | 95 | 20110610 |
| RC10-141 | 148 | <i>G. ruber</i> | 250-355 | 10 | 1.47 | -1.71 | 123 | 20110610 |
| RC10-141 | 152 | <i>G. ruber</i> | 250-355 | 10 | 1.34 | -2.05 | 114 | 20110610 |
| RC10-141 | 152 | <i>G. ruber</i> | 250-355 | 10 | 1.53 | -1.97 | 113 | 20110610 |

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| RC10-141 | 156 | <i>G. ruber</i> | 250-355 | 10 | 1.62 | -1.96 | 120 | 20110610 |
| RC10-141 | 156 | <i>G. ruber</i> | 250-355 | 10 | 1.67 | -1.93 | 127 | 20110610 |
| RC10-141 | 160 | <i>G. ruber</i> | 250-355 | 10 | 1.62 | -1.91 | 115 | 20110610 |
| RC10-141 | 160 | <i>G. ruber</i> | 250-355 | 10 | 1.62 | -2.10 | 104 | 20110610 |
| RC10-141 | 164 | <i>G. ruber</i> | 250-355 | 10 | 1.57 | -1.92 | 125 | 20110610 |
| RC10-141 | 164 | <i>G. ruber</i> | 250-355 | 10 | 1.55 | -2.04 | 111 | 20110610 |
| RC10-141 | 168 | <i>G. ruber</i> | 250-355 | 10 | 1.35 | -1.93 | 113 | 20110610 |
| RC10-141 | 168 | <i>G. ruber</i> | 250-355 | 10 | 1.42 | -1.95 | 99 | 20110610 |
| RC10-141 | 172 | <i>G. ruber</i> | 250-355 | 10 | 1.39 | -1.98 | 119 | 20110610 |
| RC10-141 | 172 | <i>G. ruber</i> | 250-355 | 10 | 1.43 | -1.96 | 110 | 20110610 |
| VM24-150 | 52 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | -0.17 | | 20061222 |
| VM24-150 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.26 | -0.25 | | 20061222 |
| VM24-150 | 60 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | 0.12 | | 20061222 |
| VM24-150 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -0.92 | LH | 20061222 |
| VM24-150 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | -0.18 | | 20061222 |
| VM24-150 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -1.11 | | 20061222 |

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| VM24-150 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | -0.79 | | 20061222 |
| VM24-150 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -1.36 | | 20061222 |
| VM24-150 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.30 | | 20061222 |
| VM24-150 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | -0.51 | | 20061222 |
| VM24-150 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.59 | 1.21 | | 20061222 |
| VM24-150 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | 1.14 | LGM | 20061222 |
| VM24-150 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | -0.13 | LGM | 20061222 |
| VM24-150 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | -0.03 | | 20061222 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | 0.28 | | 20061222 |
| VM24-150 | 62 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | -0.13 | | 20061222 |
| VM24-150 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | 0.04 | | 20061222 |
| VM24-150 | 60 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | 0.09 | | 20061222 |
| VM24-150 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.78 | -1.38 | LH | 20061221 |
| VM24-150 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | -1.11 | | 20061221 |
| VM24-150 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | -1.69 | | 20061221 |
| VM24-150 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | 0.30 | | 20061221 |

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| VM24-150 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.51 | -0.57 | | 20061221 |
| VM24-150 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | -0.89 | | 20061221 |
| VM24-150 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | -1.04 | | 20061221 |
| VM24-150 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | 0.05 | | 20061221 |
| VM24-150 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | -0.36 | LGM | 20061221 |
| VM24-150 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | 0.30 | LGM | 20061221 |
| VM24-150 | 44 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | 0.14 | | 20061221 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | 0.33 | | 20061221 |
| VM24-150 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | 0.04 | | 20061221 |
| VM24-150 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | -0.06 | | 20061221 |
| VM24-150 | 60 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | 1.09 | | 20061221 |
| VM24-150 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.78 | -1.20 | LH | 20061221 |
| VM24-150 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -1.26 | | 20061221 |
| VM24-150 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -0.84 | | 20061221 |
| VM24-150 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | -1.31 | | 20061221 |
| VM24-150 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | -0.56 | | 20061221 |

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| VM24-150 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | -0.79 | | | 20061221 |
| VM24-150 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 0.22 | | | 20061221 |
| VM24-150 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.28 | -0.27 | | | 20061221 |
| VM24-150 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | 1.60 | LGM | | 20061221 |
| VM24-150 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | 0.00 | LGM | | 20061221 |
| VM24-150 | 44 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | 0.08 | | | 20061221 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | 0.44 | | | 20061221 |
| VM24-150 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | -0.10 | 140 | LGM | 20090123 |
| VM24-150 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | -0.03 | 127 | LGM | 20090123 |
| VM24-150 | 38 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | 0.57 | 114 | LGM | 20090123 |
| VM24-150 | 38 | <i>G. tumida</i> | 425-500 | 1 | 2.50 | -0.15 | 139 | LGM | 20090123 |
| VM24-150 | 38 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | 0.86 | 117 | LGM | 20090123 |
| VM24-150 | 38 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.52 | 138 | LGM | 20090123 |
| VM24-150 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | -0.83 | 145 | LH | 20090329 |
| VM24-150 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.32 | -1.18 | 159 | LH | 20090329 |
| VM24-150 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | -1.20 | 127 | LH | 20090329 |

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|----------|----|------------------|---------|---|------|-------|-----|-----|----------|
| VM24-150 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -1.15 | 134 | LH | 20090329 |
| VM24-150 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | -1.26 | 157 | LH | 20090329 |
| VM24-150 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -0.60 | 121 | LH | 20090329 |
| VM24-150 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.78 | -1.05 | 147 | LH | 20090329 |
| VM24-150 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -1.20 | 175 | LH | 20090329 |
| VM24-150 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -0.19 | 154 | LH | 20090329 |
| VM24-150 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -1.65 | 100 | LH | 20090329 |
| VM24-150 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -1.62 | 109 | LH | 20090329 |
| VM24-150 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | 0.04 | 152 | LH | 20090329 |
| VM24-150 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | -1.35 | 149 | LH | 20090329 |
| VM24-150 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.06 | 0.85 | 94 | | 20091009 |
| VM24-150 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.25 | -0.04 | 150 | LGM | 20100913 |
| VM24-150 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -0.12 | 172 | LGM | 20100913 |
| VM24-150 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.03 | 138 | LGM | 20100913 |
| VM24-150 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.39 | 0.17 | 112 | LGM | 20100913 |
| VM24-150 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | -0.07 | 145 | LGM | 20100913 |

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| VM24-150 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.32 | 0.12 | 119 | LGM | 20100913 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.32 | 0.17 | 130 | | 20100913 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | 0.17 | 114 | | 20100913 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | 0.37 | 113 | | 20100913 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.33 | 0.03 | 134 | | 20100913 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.21 | 120 | | 20100913 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -0.20 | 149 | | 20100913 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.28 | -0.01 | 113 | | 20100913 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.36 | 110 | | 20100913 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | 0.44 | 96 | | 20100913 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | -0.27 | 101 | | 20100913 |
| VM24-150 | 44 | <i>G. tumida</i> | 425-500 | Powder | 1.84 | 0.34 | 110 | LGM | 20100913 |
| VM24-150 | 44 | <i>G. tumida</i> | 425-500 | Powder | 2.07 | 0.18 | 109 | LGM | 20100913 |
| VM24-150 | 44 | <i>G. tumida</i> | 425-500 | Powder | 1.88 | 0.12 | 125 | LGM | 20100913 |
| VM24-150 | 44 | <i>G. tumida</i> | 425-500 | Powder | 1.89 | -0.01 | 136 | LGM | 20100913 |
| VM24-150 | 4 | <i>G. tumida</i> | 355-425 | 1 | 1.87 | -0.62 | 99 | LH | 20110826 |

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| VM24-150 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.53 | -0.79 | 154 | 20110826 |
| VM24-150 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | 0.13 | 166 | 20110826 |
| VM24-150 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.63 | -0.91 | 129 | 20110826 |
| VM24-150 | 16 | <i>G. tumida</i> | 355-425 | 1 | 1.62 | -1.10 | 71 | 20110826 |
| VM24-150 | 16 | <i>G. tumida</i> | 355-425 | 1 | 1.78 | -0.67 | 90 | 20110826 |
| VM24-150 | 16 | <i>G. tumida</i> | >500 | 1 | 1.60 | -1.06 | 215 | 20110826 |
| VM24-150 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | 0.74 | 131 | 20110826 |
| VM24-150 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | -0.24 | 101 | 20110826 |
| VM24-150 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | 0.15 | 103 | 20110826 |
| VM24-150 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | -0.04 | 97 | 20110826 |
| VM24-150 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | 0.10 | 101 | 20110826 |
| VM24-150 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | -0.16 | 94 | 20110826 |
| VM24-150 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | -0.35 | 94 | 20110826 |
| VM24-150 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.33 | -0.24 | 106 | 20110826 |
| VM24-150 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.45 | -0.36 | 94 | 20110826 |
| VM24-150 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | 0.75 | 64 | 20110826 |

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| VM24-150 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | -0.11 | 125 | LGM | 20110829 |
| VM24-150 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | 0.15 | 152 | LGM | 20110829 |
| VM24-150 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | 0.93 | 134 | LGM | 20110829 |
| VM24-150 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.50 | 0.35 | 152 | LGM | 20110829 |
| VM24-150 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | -0.25 | 97 | LGM | 20110829 |
| VM24-150 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | -1.23 | 96 | LGM | 20110829 |
| VM24-150 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.76 | -0.03 | 127 | LGM | 20110829 |
| VM24-150 | 36 | <i>G. tumida</i> | 355-425 | 1 | 2.06 | 0.34 | 82 | LGM | 20110829 |
| VM24-150 | 36 | <i>G. tumida</i> | 355-425 | 1 | 2.25 | 0.66 | 104 | LGM | 20110829 |
| VM24-150 | 36 | <i>G. tumida</i> | 355-425 | 1 | 2.27 | -0.25 | 95 | LGM | 20110829 |
| VM24-150 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -0.13 | 126 | LGM | 20110829 |
| VM24-150 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | 0.78 | 102 | LGM | 20110829 |
| VM24-150 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | 0.16 | 132 | LGM | 20110829 |
| VM24-150 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | 0.46 | 107 | LGM | 20110829 |
| VM24-150 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.42 | -0.12 | 131 | LGM | 20110829 |
| VM24-150 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.30 | -0.28 | 155 | LGM | 20110829 |

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| VM24-150 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | 1.61 | 148 | LGM | 20110829 |
| VM24-150 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -0.03 | 141 | | 20110829 |
| VM24-150 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | -0.07 | 134 | | 20110829 |
| VM24-150 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.38 | 0.20 | 124 | | 20110829 |
| VM24-150 | 44 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | -0.04 | 158 | | 20110829 |
| VM24-150 | 44 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -0.21 | 124 | | 20110829 |
| VM24-150 | 44 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | 0.89 | 157 | | 20110830 |
| VM24-150 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | -0.03 | 139 | | 20110830 |
| VM24-150 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.48 | 0.07 | 137 | | 20110830 |
| VM24-150 | 44 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.17 | 103 | | 20110830 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | 1.07 | 151 | | 20110830 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.15 | 159 | | 20110830 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | -0.05 | 153 | | 20110830 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.08 | 110 | | 20110830 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | 0.33 | 125 | | 20110830 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | 0.17 | 110 | | 20110830 |

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| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | 0.43 | 150 | | 20110830 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | -0.07 | 131 | | 20110830 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -0.47 | 125 | | 20110830 |
| VM24-150 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.54 | 122 | | 20110830 |
| VM24-150 | 0 | <i>G. ruber</i> | 250-355 | 10 | 1.47 | -2.55 | 140 | LH | 20091117 |
| VM24-150 | 64 | <i>G. ruber</i> | 250-355 | 10 | 1.44 | -1.54 | 127 | | 20110425 |
| VM24-150 | 64 | <i>G. ruber</i> | 250-355 | 10 | 1.35 | -1.40 | 123 | | 20110425 |
| VM24-150 | 68 | <i>G. ruber</i> | 250-355 | 10 | 1.27 | -1.48 | 119 | | 20110425 |
| VM24-150 | 68 | <i>G. ruber</i> | 250-355 | 10 | 1.09 | -1.33 | 108 | | 20110425 |
| VM24-150 | 72 | <i>G. ruber</i> | 250-355 | 10 | 1.43 | -1.63 | 136 | | 20110425 |
| VM24-150 | 72 | <i>G. ruber</i> | 250-355 | 10 | 1.44 | -1.48 | 122 | | 20110425 |
| VM24-150 | 76 | <i>G. ruber</i> | 250-355 | 10 | 1.50 | -1.61 | 130 | | 20110425 |
| VM24-150 | 76 | <i>G. ruber</i> | 250-355 | 10 | 1.14 | -1.69 | 136 | | 20110425 |
| VM24-150 | 80 | <i>G. ruber</i> | 250-355 | 10 | 1.31 | -1.56 | 122 | | 20110425 |
| VM24-150 | 80 | <i>G. ruber</i> | 250-355 | 10 | 1.41 | -1.43 | 117 | | 20110425 |
| VM24-150 | 84 | <i>G. ruber</i> | 250-355 | 10 | 1.44 | -1.46 | 131 | | 20110425 |

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| VM24-150 | 84 | <i>G. ruber</i> | 250-355 | 10 | 1.30 | -1.44 | 107 | 20110425 |
| VM24-150 | 88 | <i>G. ruber</i> | 250-355 | 10 | 1.54 | -1.77 | 130 | 20110425 |
| VM24-150 | 88 | <i>G. ruber</i> | 250-355 | 10 | 1.49 | -1.62 | 115 | 20110425 |
| VM24-150 | 92 | <i>G. ruber</i> | 250-355 | 10 | 1.33 | -1.62 | 122 | 20110425 |
| VM24-150 | 92 | <i>G. ruber</i> | 250-355 | 10 | 1.36 | -1.76 | 135 | 20110425 |
| VM24-150 | 96 | <i>G. ruber</i> | 250-355 | 10 | 1.31 | -1.74 | 148 | 20110425 |
| VM24-150 | 96 | <i>G. ruber</i> | 250-355 | 10 | 1.33 | -1.63 | 136 | 20110425 |
| VM24-150 | 100 | <i>G. ruber</i> | 250-355 | 10 | 0.90 | -1.60 | 119 | 20110425 |
| VM24-150 | 100 | <i>G. ruber</i> | 250-355 | 10 | 1.22 | -1.58 | 119 | 20110425 |
| VM24-150 | 104 | <i>G. ruber</i> | 250-355 | 10 | 1.15 | -1.92 | 131 | 20110425 |
| VM24-150 | 104 | <i>G. ruber</i> | 250-355 | 10 | 1.47 | -1.65 | 137 | 20110425 |
| VM24-150 | 108 | <i>G. ruber</i> | 250-355 | 10 | 0.92 | -1.57 | 115 | 20110425 |
| VM24-150 | 108 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -1.75 | 123 | 20110425 |
| VM24-150 | 112 | <i>G. ruber</i> | 250-355 | 10 | 1.41 | -1.76 | 132 | 20110511 |
| VM24-150 | 112 | <i>G. ruber</i> | 250-355 | 10 | 1.27 | -1.65 | 115 | 20110511 |
| VM24-150 | 116 | <i>G. ruber</i> | 250-355 | 10 | 1.21 | -1.45 | 109 | 20110511 |

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| VM24-150 | 116 | <i>G. ruber</i> | 250-355 | 10 | 1.14 | -1.39 | 111 | 20110511 |
| VM24-150 | 120 | <i>G. ruber</i> | 250-355 | 10 | 1.06 | -1.47 | 110 | 20110511 |
| VM24-150 | 120 | <i>G. ruber</i> | 250-355 | 10 | 1.30 | -1.59 | 118 | 20110511 |
| VM24-150 | 124 | <i>G. ruber</i> | 250-355 | 10 | 1.34 | -1.79 | 119 | 20110511 |
| VM24-150 | 128 | <i>G. ruber</i> | 250-355 | 10 | 1.10 | -1.60 | 98 | 20110511 |
| VM24-150 | 128 | <i>G. ruber</i> | 250-355 | 10 | 1.42 | -1.58 | 112 | 20110511 |
| VM24-150 | 132 | <i>G. ruber</i> | 250-355 | 10 | 1.41 | -1.73 | 115 | 20110511 |
| VM24-150 | 132 | <i>G. ruber</i> | 250-355 | 10 | 1.50 | -1.86 | 114 | 20110511 |
| VM24-150 | 136 | <i>G. ruber</i> | 250-355 | 10 | 1.37 | -1.95 | 111 | 20110511 |
| VM24-150 | 136 | <i>G. ruber</i> | 250-355 | 10 | 1.56 | -1.94 | 108 | 20110511 |
| VM24-150 | 140 | <i>G. ruber</i> | 250-355 | 10 | 1.50 | -2.15 | 117 | 20110511 |
| VM24-150 | 140 | <i>G. ruber</i> | 250-355 | 10 | 1.70 | -2.04 | 134 | 20110511 |
| VM24-150 | 144 | <i>G. ruber</i> | 250-355 | 10 | 1.85 | -1.97 | 143 | 20110511 |
| VM24-150 | 144 | <i>G. ruber</i> | 250-355 | 10 | 1.76 | -1.91 | 115 | 20110511 |
| VM24-150 | 148 | <i>G. ruber</i> | 250-355 | 10 | 1.72 | -2.13 | 110 | 20110511 |
| VM24-150 | 148 | <i>G. ruber</i> | 250-355 | 10 | 1.44 | -1.95 | 111 | 20110511 |

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| VM24-150 | 152 | <i>G. ruber</i> | 250-355 | 10 | 1.51 | -1.98 | 114 | 20110511 |
| VM24-150 | 152 | <i>G. ruber</i> | 250-355 | 10 | 1.44 | -2.16 | 117 | 20110511 |
| VM24-150 | 156 | <i>G. ruber</i> | 250-355 | 10 | 1.35 | -2.02 | 112 | 20110511 |
| VM24-150 | 156 | <i>G. ruber</i> | 250-355 | 10 | 1.64 | -2.03 | 121 | 20110511 |
| VM24-150 | 160 | <i>G. ruber</i> | 250-355 | 10 | 1.58 | -2.04 | 131 | 20110512 |
| VM24-150 | 160 | <i>G. ruber</i> | 250-355 | 10 | 1.77 | -1.85 | 114 | 20110512 |
| VM24-150 | 164 | <i>G. ruber</i> | 250-355 | 10 | 1.78 | -2.22 | 125 | 20110512 |
| VM24-150 | 164 | <i>G. ruber</i> | 250-355 | 10 | 1.57 | -1.99 | 113 | 20110512 |
| VM24-150 | 168 | <i>G. ruber</i> | 250-355 | 10 | 1.53 | -1.95 | 108 | 20110512 |
| VM24-150 | 168 | <i>G. ruber</i> | 250-355 | 10 | 1.51 | -1.92 | 116 | 20110512 |
| VM24-150 | 172 | <i>G. ruber</i> | 250-355 | 10 | 1.66 | -2.02 | 114 | 20110512 |
| VM24-150 | 172 | <i>G. ruber</i> | 250-355 | 10 | 1.47 | -2.05 | 110 | 20110512 |
| VM24-150 | 176 | <i>G. ruber</i> | 250-355 | 10 | 1.53 | -2.11 | 118 | 20110512 |
| VM24-150 | 176 | <i>G. ruber</i> | 250-355 | 10 | 1.43 | -2.06 | 125 | 20110512 |
| VM24-150 | 180 | <i>G. ruber</i> | 250-355 | 10 | 1.45 | -1.98 | 124 | 20110512 |
| VM24-150 | 180 | <i>G. ruber</i> | 250-355 | 10 | 1.30 | -2.07 | 103 | 20110512 |

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| VM24-150 | 184 | <i>G. ruber</i> | 250-355 | 10 | 1.46 | -2.04 | 128 | | 20110512 |
| VM24-150 | 184 | <i>G. ruber</i> | 250-355 | 10 | 1.41 | -2.16 | 116 | | 20110512 |
| VM24-150 | 188 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -2.20 | 122 | | 20110512 |
| VM24-150 | 188 | <i>G. ruber</i> | 250-355 | 10 | 1.22 | -2.19 | 110 | | 20110512 |
| VM24-150 | 192 | <i>G. ruber</i> | 250-355 | 10 | 1.34 | -2.31 | 111 | | 20110512 |
| VM24-150 | 192 | <i>G. ruber</i> | 250-355 | 10 | 1.37 | -2.43 | 117 | | 20110512 |
| VM24-150 | 196 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -2.58 | 111 | | 20110512 |
| VM24-150 | 196 | <i>G. ruber</i> | 250-355 | 10 | 1.32 | -2.47 | 141 | | 20110512 |
| VM24-150 | 0 | <i>G. ruber</i> | 250-355 | 10 | 1.48 | -2.47 | 138 | LH | 20110912 |
| VM24-150 | 0 | <i>G. ruber</i> | 250-355 | 10 | 1.60 | -2.56 | 145 | LH | 20110912 |
| VM24-150 | 8 | <i>G. ruber</i> | 250-355 | 10 | 1.46 | -2.35 | 115 | | 20110912 |
| VM24-150 | 12 | <i>G. ruber</i> | 250-355 | 10 | 1.43 | -2.60 | 102 | | 20110912 |
| VM24-150 | 12 | <i>G. ruber</i> | 250-355 | 10 | 1.45 | -2.71 | 101 | | 20110912 |
| VM24-150 | 16 | <i>G. ruber</i> | 250-355 | 10 | 1.45 | -2.50 | 118 | | 20110912 |
| VM24-150 | 16 | <i>G. ruber</i> | 250-355 | 10 | 1.15 | -2.27 | 103 | | 20110912 |
| VM24-150 | 20 | <i>G. ruber</i> | 250-355 | 10 | 1.06 | -2.11 | 109 | | 20110912 |

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|----------|----|-----------------|---------|----|------|-------|-----|-----|----------|
| VM24-150 | 20 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -2.32 | 116 | | 20110912 |
| VM24-150 | 24 | <i>G. ruber</i> | 250-355 | 10 | 1.11 | -2.07 | 107 | | 20110912 |
| VM24-150 | 24 | <i>G. ruber</i> | 250-355 | 10 | 1.06 | -1.90 | 105 | | 20110912 |
| VM24-150 | 28 | <i>G. ruber</i> | 250-355 | 10 | 1.13 | -1.83 | 114 | | 20110912 |
| VM24-150 | 28 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -1.76 | 126 | | 20110912 |
| VM24-150 | 32 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -1.71 | 100 | | 20110912 |
| VM24-150 | 32 | <i>G. ruber</i> | 250-355 | 10 | 1.06 | -1.72 | 128 | | 20110912 |
| VM24-150 | 36 | <i>G. ruber</i> | 250-355 | 10 | 1.22 | -1.54 | 118 | LGM | 20110912 |
| VM24-150 | 36 | <i>G. ruber</i> | 250-355 | 10 | 0.91 | -1.65 | 99 | LGM | 20110912 |
| VM24-150 | 40 | <i>G. ruber</i> | 250-355 | 10 | 0.93 | -1.58 | 108 | LGM | 20110912 |
| VM24-150 | 40 | <i>G. ruber</i> | 250-355 | 10 | 1.33 | -1.26 | 115 | LGM | 20110912 |
| VM24-150 | 44 | <i>G. ruber</i> | 250-355 | 10 | 0.99 | -1.45 | 106 | | 20110912 |
| VM24-150 | 44 | <i>G. ruber</i> | 250-355 | 10 | 1.12 | -1.31 | 115 | | 20110912 |
| VM24-150 | 48 | <i>G. ruber</i> | 250-355 | 10 | 1.05 | -1.48 | 107 | | 20110912 |
| VM24-150 | 48 | <i>G. ruber</i> | 250-355 | 10 | 1.37 | -1.40 | 113 | | 20110912 |
| VM24-150 | 52 | <i>G. ruber</i> | 250-355 | 10 | 1.32 | -1.24 | 106 | | 20110913 |

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| VM24-150 | 52 | <i>G. ruber</i> | 250-355 | 10 | 1.20 | -1.38 | 116 | 20110913 |
| VM24-150 | 56 | <i>G. ruber</i> | 250-355 | 10 | 1.37 | -1.42 | 115 | 20110913 |
| VM24-150 | 56 | <i>G. ruber</i> | 250-355 | 10 | 1.17 | -1.42 | 114 | 20110913 |
| VM24-150 | 60 | <i>G. ruber</i> | 250-355 | 10 | 1.24 | -1.42 | 120 | 20110913 |
| VM24-150 | 60 | <i>G. ruber</i> | 250-355 | 10 | 1.03 | -1.42 | 115 | 20110913 |
| VM24-150 | 4 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.03 | -1.17 | 74 | 20110627 |
| VM24-150 | 4 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.95 | -0.34 | 48 | 20110627 |
| VM24-150 | 4 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.42 | -1.61 | 58 | 20110627 |
| VM24-150 | 4 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.71 | -1.89 | 40 | 20110627 |
| VM24-150 | 4 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.22 | -1.20 | 51 | 20110627 |
| VM24-150 | 4 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.06 | -1.36 | 60 | 20110628 |
| VM24-150 | 4 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.29 | -1.60 | 53 | 20110628 |
| VM24-150 | 4 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.06 | -1.41 | 50 | 20110628 |
| VM24-150 | 4 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.31 | -1.77 | 47 | 20110628 |
| VM24-150 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.81 | -0.55 | 36 | 20111122 |
| VM24-150 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.26 | -1.87 | 37 | 20111122 |

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|----------|----|---------------------------|---------|---|-------|-------|----|----------|
| VM24-150 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | -0.22 | -0.01 | 42 | 20111122 |
| VM24-150 | 36 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.02 | -0.03 | 47 | 20111122 |
| VM24-150 | 36 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.16 | -0.22 | 47 | 20111122 |
| VM24-150 | 36 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.99 | -0.35 | 35 | 20111122 |
| VM24-150 | 36 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.56 | -0.97 | 40 | 20111122 |
| VM24-150 | 36 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.78 | 0.07 | 45 | 20111122 |
| VM24-150 | 36 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.24 | -0.52 | 38 | 20111214 |
| VM24-150 | 36 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.17 | 0.03 | 37 | 20111214 |
| VM24-150 | 40 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.04 | 0.38 | 32 | 20111214 |
| VM24-150 | 40 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.11 | 0.13 | 29 | 20111214 |
| VM24-150 | 40 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.56 | -1.04 | 45 | 20111214 |
| VM24-150 | 8 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.21 | 2.34 | 41 | 20120518 |
| VM24-150 | 8 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.44 | 2.32 | 39 | 20120518 |
| VM24-150 | 20 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.35 | 2.38 | 38 | 20120518 |
| VM24-150 | 32 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.01 | 3.89 | 34 | 20120518 |
| VM24-150 | 32 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.13 | 3.78 | 27 | 20120518 |

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|----------|----|-------------------------|------|-----|-------|------|-----|----------|
| VM24-150 | 20 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.08 | 3.28 | 73 | 20120523 |
| VM24-150 | 20 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.31 | 2.74 | 64 | 20120523 |
| VM24-150 | 28 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.47 | 2.31 | 102 | 20120523 |
| VM24-150 | 28 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.12 | 3.26 | 62 | 20120523 |
| VM24-150 | 36 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.06 | 3.40 | 53 | 20120523 |
| VM24-150 | 44 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.00 | 3.68 | 69 | 20120523 |
| VM24-150 | 44 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.20 | 3.37 | 53 | 20120523 |
| VM24-150 | 48 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.01 | 3.82 | 55 | 20120523 |
| VM24-150 | 48 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.10 | 3.78 | 86 | 20120523 |
| VM24-150 | 48 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.26 | 3.44 | 103 | 20120523 |
| VM24-150 | 52 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.13 | 3.64 | 74 | 20120523 |
| VM24-150 | 52 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.11 | 3.81 | 77 | 20120523 |
| VM24-150 | 8 | <i>C. wuellerstorfi</i> | >250 | 0.5 | -0.19 | 3.84 | 85 | 20120523 |
| VM24-150 | 68 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.14 | 3.33 | 66 | 20120524 |
| VM24-150 | 68 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.19 | 3.31 | 93 | 20120524 |
| VM24-150 | 68 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.25 | 3.48 | 67 | 20120524 |

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|----------|-----|-------------------------|------|---|-------|------|-----|----------|
| VM24-150 | 72 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.15 | 3.40 | 83 | 20120524 |
| VM24-150 | 76 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.14 | 3.36 | 59 | 20120524 |
| VM24-150 | 80 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.13 | 3.45 | 59 | 20120524 |
| VM24-150 | 84 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.15 | 3.14 | 51 | 20120524 |
| VM24-150 | 84 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.30 | 3.55 | 138 | 20120524 |
| VM24-150 | 88 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.22 | 3.44 | 71 | 20120524 |
| VM24-150 | 88 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.26 | 3.16 | 69 | 20120524 |
| VM24-150 | 96 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.17 | 3.03 | 56 | 20120524 |
| VM24-150 | 96 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.22 | 3.54 | 77 | 20120524 |
| VM24-150 | 100 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.12 | 3.17 | 130 | 20120524 |
| VM24-150 | 100 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.26 | 3.32 | 62 | 20120524 |
| VM24-150 | 100 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.11 | 3.10 | 54 | 20120524 |
| VM24-150 | 104 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.07 | 3.17 | 99 | 20120524 |
| VM24-150 | 104 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.19 | 3.38 | 50 | 20120524 |
| VM24-150 | 104 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.16 | 3.09 | 129 | 20120524 |
| VM24-150 | 124 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.09 | 3.65 | 145 | 20120524 |

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|------------|-----|-------------------------|---------|---|-------|-------|-----|----|----------|
| VM24-150 | 124 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.15 | 3.73 | 109 | | 20120524 |
| VM24-150 | 124 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.03 | 3.43 | 53 | | 20120524 |
| VM24-150 | 112 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.06 | 3.33 | 53 | | 20120524 |
| VM24-150 | 112 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.03 | 3.28 | 51 | | 20120524 |
| VM24-150 | 128 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.07 | 3.32 | 166 | | 20120524 |
| VM24-150 | 128 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.18 | 3.44 | 53 | | 20120524 |
| VM24-150 | 132 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.18 | 2.75 | 122 | | 20120524 |
| VM24-150 | 64 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.03 | 3.42 | 40 | | 20120529 |
| VM24-150 | 72 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.15 | 3.72 | 35 | | 20120529 |
| VM24-150 | 72 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.10 | 3.38 | 44 | | 20120529 |
| VM24-150 | 76 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.23 | 3.52 | 21 | | 20120529 |
| VM24-150 | 80 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.21 | 3.60 | 26 | | 20120529 |
| VM24-150 | 88 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.17 | 3.53 | 46 | | 20120529 |
| VM24-150 | 92 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.11 | 3.35 | 21 | | 20120529 |
| VM24-150 | 128 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.11 | 3.54 | 46 | | 20120529 |
| VM28-236TW | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | -0.57 | 126 | LH | 20090406 |

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|------------|----|------------------|---------|----|------|-------|-----|----|----------|
| VM28-236TW | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | -1.38 | 157 | LH | 20090408 |
| VM28-236TW | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.25 | 151 | LH | 20090408 |
| VM28-236TW | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -1.39 | 118 | LH | 20090408 |
| VM28-236TW | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | -1.43 | 130 | LH | 20090408 |
| VM28-236TW | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | -0.79 | 150 | LH | 20090408 |
| VM28-236TW | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | -1.32 | 110 | LH | 20090408 |
| VM28-236TW | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | 0.00 | 112 | LH | 20100409 |
| VM28-236TW | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.56 | -0.85 | 146 | LH | 20100409 |
| VM28-236TW | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -0.89 | 160 | LH | 20100409 |
| VM28-236TW | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -1.37 | 121 | LH | 20100409 |
| VM28-236TW | 2 | <i>G. ruber</i> | 250-355 | 10 | 1.42 | -2.14 | 130 | LH | 20100409 |
| VM28-236TW | 0 | <i>G. ruber</i> | 250-355 | 10 | 1.40 | -1.95 | 145 | LH | 20100409 |
| VM28-236 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | -0.25 | | | 20071016 |
| VM28-236 | 56 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | -0.13 | | | 20071016 |
| VM28-236 | 56 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | -0.09 | | | 20071016 |
| VM28-236 | 56 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | -0.09 | | | 20071016 |

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|----------|----|------------------|---------|---|------|-------|-----|-----|----------|
| VM28-236 | 60 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | -0.34 | | | 20071016 |
| VM28-236 | 60 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -0.70 | | | 20071016 |
| VM28-236 | 60 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | 0.00 | | | 20071016 |
| VM28-236 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | -0.96 | 167 | | 20071010 |
| VM28-236 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | -1.06 | 157 | | 20071010 |
| VM28-236 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | -0.81 | 110 | | 20071010 |
| VM28-236 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | -1.09 | 149 | | 20071010 |
| VM28-236 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.54 | -0.38 | 135 | | 20071010 |
| VM28-236 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | -0.89 | 182 | | 20071010 |
| VM28-236 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | -0.83 | 148 | | 20071010 |
| VM28-236 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | -1.01 | 145 | | 20071010 |
| VM28-236 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | -0.95 | 144 | | 20071010 |
| VM28-236 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | 0.48 | 125 | LGM | 20071010 |
| VM28-236 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.27 | -0.18 | | LGM | 20071010 |
| VM28-236 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | 0.25 | | LGM | 20071010 |
| VM28-236 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -0.82 | | LGM | 20071010 |

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| VM28-236 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.59 | -1.06 | LGM | 20071010 |
| VM28-236 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -1.18 | LGM | 20071010 |
| VM28-236 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | 0.30 | | 20071010 |
| VM28-236 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | -0.15 | | 20071010 |
| VM28-236 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -0.05 | | 20071011 |
| VM28-236 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | -0.42 | | 20071011 |
| VM28-236 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -0.43 | | 20071011 |
| VM28-236 | 52 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -0.27 | | 20071011 |
| VM28-236 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | 0.47 | | 20071011 |
| VM28-236 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | -0.16 | | 20071011 |
| VM28-236 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | 0.02 | | 20071011 |
| VM28-236 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -0.06 | | 20071011 |
| VM28-236 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.54 | 0.20 | | 20071011 |
| VM28-236 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -0.11 | | 20071011 |
| VM28-236 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -0.18 | | 20071011 |
| VM28-236 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | -0.35 | | 20071011 |

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| VM28-236 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | -0.33 | | | 20071011 |
| VM28-236 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.43 | -0.30 | | | 20071011 |
| VM28-236 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | 0.52 | | | 20071011 |
| VM28-236 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | 0.26 | | | 20071011 |
| VM28-236 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | -0.35 | | | 20071011 |
| VM28-236 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | 0.26 | | | 20071011 |
| VM28-236 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.00 | 121 | | 20090123 |
| VM28-236 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.50 | -0.32 | 121 | | 20090123 |
| VM28-236 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.28 | 115 | | 20090123 |
| VM28-236 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.25 | 0.98 | 127 | | 20090123 |
| VM28-236 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.24 | 132 | | 20090123 |
| VM28-236 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.33 | -0.10 | 118 | | 20090123 |
| VM28-236 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.28 | 0.05 | 105 | | 20090123 |
| VM28-236 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.27 | 0.14 | 126 | | 20090123 |
| VM28-236 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | -0.50 | 147 | LGM | 20100909 |
| VM28-236 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | 0.13 | 105 | LGM | 20100909 |

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|----------|----|------------------|---------|---|------|-------|-----|-----|----------|
| VM28-236 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | -0.14 | 155 | LGM | 20100909 |
| VM28-236 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.53 | 132 | LGM | 20100909 |
| VM28-236 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | -0.02 | 131 | LGM | 20100909 |
| VM28-236 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -0.16 | 125 | LGM | 20100909 |
| VM28-236 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | -0.20 | 90 | LGM | 20100909 |
| VM28-236 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | 0.25 | 140 | LGM | 20100909 |
| VM28-236 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | -0.01 | 140 | | 20100909 |
| VM28-236 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -0.02 | 158 | | 20100909 |
| VM28-236 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | 0.59 | 131 | | 20100909 |
| VM28-236 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | -0.10 | 135 | | 20100909 |
| VM28-236 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 0.46 | 125 | | 20100909 |
| VM28-236 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.62 | -0.13 | 138 | | 20100909 |
| VM28-236 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | 0.11 | 138 | | 20100909 |
| VM28-236 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.41 | 0.39 | 97 | | 20100909 |
| VM28-236 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | -0.52 | 147 | LGM | 20100913 |
| VM28-236 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | 0.11 | 105 | LGM | 20100913 |

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|----------|-----|------------------|---------|---|------|-------|-----|--------|----------|
| VM28-236 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | -0.16 | 155 | LGM | 20100913 |
| VM28-236 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | -0.69 | 113 | MIS 5e | 20111115 |
| VM28-236 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.35 | -0.23 | 112 | MIS 5e | 20111115 |
| VM28-236 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | -0.54 | 93 | MIS 5e | 20111115 |
| VM28-236 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | -0.91 | 122 | MIS 5e | 20111115 |
| VM28-236 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.48 | -1.02 | 106 | MIS 5e | 20111115 |
| VM28-236 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | -0.77 | 135 | MIS 5e | 20111115 |
| VM28-236 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -0.16 | 109 | MIS 5e | 20111115 |
| VM28-236 | 124 | <i>G. tumida</i> | 425-500 | 1 | 1.51 | -0.85 | 132 | MIS 5e | 20111116 |
| VM28-236 | 124 | <i>G. tumida</i> | 425-500 | 1 | 1.54 | -0.99 | 111 | MIS 5e | 20111116 |
| VM28-236 | 124 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | -1.16 | 120 | MIS 5e | 20111116 |
| VM28-236 | 124 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | -0.81 | 138 | MIS 5e | 20111116 |
| VM28-236 | 124 | <i>G. tumida</i> | 425-500 | 1 | 1.66 | -0.66 | 125 | MIS 5e | 20111116 |
| VM28-236 | 124 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | 0.13 | 145 | MIS 5e | 20111116 |
| VM28-236 | 124 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | -0.02 | 131 | MIS 5e | 20111116 |
| VM28-236 | 124 | <i>G. tumida</i> | 425-500 | 1 | 1.44 | -0.99 | 137 | MIS 5e | 20111116 |

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|----------|-----|------------------|---------|---|------|-------|-----|--------|----------|
| VM28-236 | 124 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | -1.07 | 116 | MIS 5e | 20111116 |
| VM28-236 | 124 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | -0.24 | 111 | MIS 5e | 20111116 |
| VM28-236 | 128 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | -0.94 | 130 | MIS 5e | 20111116 |
| VM28-236 | 128 | <i>G. tumida</i> | 425-500 | 1 | 1.37 | -0.11 | 103 | MIS 5e | 20111116 |
| VM28-236 | 128 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | -0.84 | 111 | MIS 5e | 20111116 |
| VM28-236 | 128 | <i>G. tumida</i> | 425-500 | 1 | 1.32 | 0.10 | 112 | MIS 5e | 20111116 |
| VM28-236 | 128 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | -0.16 | 152 | MIS 5e | 20111116 |
| VM28-236 | 128 | <i>G. tumida</i> | 425-500 | 1 | 2.26 | -0.48 | 123 | MIS 5e | 20111116 |
| VM28-236 | 128 | <i>G. tumida</i> | 425-500 | 1 | 1.40 | -1.38 | 130 | MIS 5e | 20111116 |
| VM28-236 | 128 | <i>G. tumida</i> | 425-500 | 1 | 1.26 | -1.49 | 119 | MIS 5e | 20111116 |
| VM28-236 | 128 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | -1.27 | 110 | MIS 5e | 20111116 |
| VM28-236 | 128 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | -0.29 | 138 | MIS 5e | 20111116 |
| VM28-236 | 132 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | 0.65 | 130 | | 20111116 |
| VM28-236 | 132 | <i>G. tumida</i> | 425-500 | 1 | 1.35 | -0.74 | 150 | | 20111116 |
| VM28-236 | 132 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | 0.57 | 120 | | 20111130 |
| VM28-236 | 132 | <i>G. tumida</i> | 425-500 | 1 | 1.57 | 0.06 | 117 | | 20111130 |

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| VM28-236 | 132 | <i>G. tumida</i> | 425-500 | 1 | 1.33 | -1.13 | 144 | 20111130 |
| VM28-236 | 132 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | 0.62 | 91 | 20111130 |
| VM28-236 | 132 | <i>G. tumida</i> | 425-500 | 1 | 1.65 | 0.55 | 99 | 20111130 |
| VM28-236 | 136 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 0.04 | 152 | 20111130 |
| VM28-236 | 136 | <i>G. tumida</i> | 425-500 | 1 | 1.57 | -1.12 | 143 | 20111130 |
| VM28-236 | 136 | <i>G. tumida</i> | 425-500 | 1 | 1.56 | -0.64 | 124 | 20111130 |
| VM28-236 | 136 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | -0.08 | 135 | 20111130 |
| VM28-236 | 136 | <i>G. tumida</i> | 425-500 | 1 | 1.32 | -0.73 | 151 | 20111130 |
| VM28-236 | 136 | <i>G. tumida</i> | 425-500 | 1 | 1.43 | 0.16 | 109 | 20111130 |
| VM28-236 | 136 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | -0.64 | 108 | 20111130 |
| VM28-236 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.34 | 0.45 | 123 | 20111130 |
| VM28-236 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.45 | 0.32 | 119 | 20111130 |
| VM28-236 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | -0.77 | 122 | 20111130 |
| VM28-236 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.55 | -0.81 | 140 | 20111130 |
| VM28-236 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | 0.60 | 101 | 20111130 |
| VM28-236 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.38 | 0.98 | 139 | 20111130 |

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|----------|-----|------------------|---------|---|------|-------|-----|----------|----------|
| VM28-236 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.60 | -0.05 | 103 | | 20111130 |
| VM28-236 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.63 | 0.04 | 125 | | 20111130 |
| VM28-236 | 144 | <i>G. tumida</i> | 425-500 | 1 | 1.57 | 0.06 | 131 | MIS 6 | 20111202 |
| VM28-236 | 144 | <i>G. tumida</i> | 425-500 | 1 | 1.54 | 0.58 | 153 | MIS 6 | 20111202 |
| VM28-236 | 144 | <i>G. tumida</i> | 425-500 | 1 | 1.31 | 0.75 | 143 | MIS 6 | 20111202 |
| VM28-236 | 144 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | 0.25 | 124 | MIS 6 | 20111202 |
| VM28-236 | 144 | <i>G. tumida</i> | 425-500 | 1 | 1.36 | 1.01 | 91 | MIS 6 | 20111202 |
| VM28-236 | 144 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | 0.69 | 135 | MIS 6 | 20111202 |
| VM28-236 | 144 | <i>G. tumida</i> | 425-500 | 1 | 1.76 | 0.90 | 133 | MIS 6 | 20111202 |
| VM28-236 | 144 | <i>G. tumida</i> | 425-500 | 1 | 1.43 | 0.38 | 122 | MIS 6 | 20111202 |
| VM28-236 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.28 | -0.88 | 135 | MIS 6 | 20111202 |
| VM28-236 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.59 | -0.22 | 144 | MIS 6 | 20111202 |
| VM28-236 | 148 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -0.14 | 119 | MIS 6 | 20111202 |
| VM28-236 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.65 | 0.12 | 119 | MIS 6 | 20111202 |
| VM28-236 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -0.27 | 120 | MIS 6 | 20111202 |
| VM28-236 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | 0.01 | 134 | MIS 6 | 20111202 |

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|----------|-----|------------------|---------|---|------|-------|-----|----------|----------|
| VM28-236 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.65 | 0.95 | 100 | MIS 6 | 20111202 |
| VM28-236 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | 0.13 | 131 | MIS 6 | 20111202 |
| VM28-236 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | 0.37 | 140 | MIS 6 | 20111202 |
| VM28-236 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.30 | -0.45 | 118 | MIS 6 | 20111202 |
| VM28-236 | 152 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | -0.38 | 125 | MIS 6 | 20111202 |
| VM28-236 | 152 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | 0.32 | 117 | MIS 6 | 20111202 |
| VM28-236 | 152 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | 0.12 | 117 | MIS 6 | 20111202 |
| VM28-236 | 152 | <i>G. tumida</i> | 425-500 | 1 | 1.65 | 1.06 | 120 | MIS 6 | 20111202 |
| VM28-236 | 152 | <i>G. tumida</i> | 425-500 | 1 | 1.53 | -0.01 | 136 | MIS 6 | 20111202 |
| VM28-236 | 152 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | 0.17 | 95 | MIS 6 | 20111202 |
| VM28-236 | 152 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | 0.45 | 126 | MIS 6 | 20111202 |
| VM28-236 | 152 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | -0.12 | 113 | MIS 6 | 20111202 |
| VM28-236 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | 0.62 | 124 | MIS 6 | 20111202 |
| VM28-236 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.60 | 0.28 | 123 | MIS 6 | 20111202 |
| VM28-236 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.50 | -0.21 | 118 | MIS 6 | 20111202 |
| VM28-236 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.40 | 0.23 | 137 | MIS 6 | 20111202 |

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|----------|-----|------------------|---------|---|------|-------|-----|----------|----------|
| VM28-236 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | 0.07 | 129 | MIS 6 | 20111202 |
| VM28-236 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.46 | 0.18 | 130 | MIS 6 | 20111202 |
| VM28-236 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | 0.08 | 104 | MIS 6 | 20111202 |
| VM28-236 | 168 | <i>G. tumida</i> | 425-500 | 1 | 1.52 | 0.00 | 135 | | 20111206 |
| VM28-236 | 168 | <i>G. tumida</i> | 425-500 | 1 | 1.66 | 0.18 | 132 | | 20111206 |
| VM28-236 | 168 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | -0.43 | 107 | | 20111206 |
| VM28-236 | 168 | <i>G. tumida</i> | 425-500 | 1 | 1.57 | -0.40 | 116 | | 20111206 |
| VM28-236 | 168 | <i>G. tumida</i> | 425-500 | 1 | 1.57 | 0.00 | 127 | | 20111206 |
| VM28-236 | 168 | <i>G. tumida</i> | 425-500 | 1 | 1.30 | 1.32 | 97 | | 20111206 |
| VM28-236 | 168 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | 0.37 | 123 | | 20111206 |
| VM28-236 | 172 | <i>G. tumida</i> | 425-500 | 1 | 1.32 | -0.53 | 131 | | 20111206 |
| VM28-236 | 172 | <i>G. tumida</i> | 425-500 | 1 | 1.37 | 0.17 | 128 | | 20111206 |
| VM28-236 | 172 | <i>G. tumida</i> | 425-500 | 1 | 1.48 | -0.50 | 117 | | 20111206 |
| VM28-236 | 172 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | -0.17 | 116 | | 20111206 |
| VM28-236 | 172 | <i>G. tumida</i> | 425-500 | 1 | 1.66 | -0.06 | 137 | | 20111206 |
| VM28-236 | 172 | <i>G. tumida</i> | 425-500 | 1 | 1.40 | -0.33 | 96 | | 20111206 |

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| VM28-236 | 172 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | -0.69 | 146 | 20111206 |
| VM28-236 | 176 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | -0.79 | 111 | 20111206 |
| VM28-236 | 176 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | -0.14 | 121 | 20111206 |
| VM28-236 | 176 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.23 | 132 | 20111206 |
| VM28-236 | 176 | <i>G. tumida</i> | 425-500 | 1 | 1.60 | -0.03 | 127 | 20111206 |
| VM28-236 | 176 | <i>G. tumida</i> | 425-500 | 1 | 1.43 | -0.91 | 113 | 20111207 |
| VM28-236 | 176 | <i>G. tumida</i> | 425-500 | 1 | 1.35 | -0.12 | 157 | 20111207 |
| VM28-236 | 180 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.43 | 139 | 20111207 |
| VM28-236 | 180 | <i>G. tumida</i> | 425-500 | 1 | 1.59 | -0.04 | 122 | 20111207 |
| VM28-236 | 180 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | -0.47 | 145 | 20111207 |
| VM28-236 | 180 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | -0.26 | 107 | 20111207 |
| VM28-236 | 180 | <i>G. tumida</i> | 425-500 | 1 | 1.59 | -0.09 | 116 | 20111207 |
| VM28-236 | 180 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | -0.41 | 108 | 20111207 |
| VM28-236 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -0.39 | 123 | 20111207 |
| VM28-236 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | 0.22 | 130 | 20111207 |
| VM28-236 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | 0.02 | 152 | 20111207 |

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|----------|-----|------------------|---------|---|------|-------|-----|----------|
| VM28-236 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.49 | 0.31 | 110 | 20111207 |
| VM28-236 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.39 | 145 | 20111207 |
| VM28-236 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.60 | -0.41 | 120 | 20111207 |
| VM28-236 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | -0.68 | 147 | 20111207 |
| VM28-236 | 196 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | -0.24 | 113 | 20111216 |
| VM28-236 | 196 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | -0.72 | 128 | 20111216 |
| VM28-236 | 196 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | 0.19 | 126 | 20111216 |
| VM28-236 | 196 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | -0.63 | 89 | 20111216 |
| VM28-236 | 196 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | 0.69 | 107 | 20111216 |
| VM28-236 | 168 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | 0.60 | 129 | 20111216 |
| VM28-236 | 168 | <i>G. tumida</i> | 425-500 | 1 | 1.40 | 0.18 | 126 | 20111216 |
| VM28-236 | 172 | <i>G. tumida</i> | 425-500 | 1 | 1.42 | -0.43 | 145 | 20111216 |
| VM28-236 | 172 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | -0.52 | 121 | 20111216 |
| VM28-236 | 176 | <i>G. tumida</i> | 425-500 | 1 | 1.21 | -0.36 | 109 | 20111216 |
| VM28-236 | 176 | <i>G. tumida</i> | 425-500 | 1 | 1.56 | 0.95 | 139 | 20111216 |
| VM28-236 | 176 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.12 | 120 | 20111216 |

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| VM28-236 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -0.35 | 129 | 20111216 |
| VM28-236 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | -0.41 | 117 | 20111216 |
| VM28-236 | 184 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | -0.63 | 98 | 20111216 |
| VM28-236 | 76 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -0.47 | 119 | 20120328 |
| VM28-236 | 76 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.11 | 130 | 20120328 |
| VM28-236 | 76 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -0.85 | 113 | 20120328 |
| VM28-236 | 76 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | -0.17 | 102 | 20120328 |
| VM28-236 | 80 | <i>G. tumida</i> | 425-500 | 1 | 2.40 | -0.45 | 115 | 20120328 |
| VM28-236 | 80 | <i>G. tumida</i> | 425-500 | 1 | 2.26 | -1.11 | 117 | 20120328 |
| VM28-236 | 80 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | 1.15 | 107 | 20120328 |
| VM28-236 | 80 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | -0.95 | 122 | 20120328 |
| VM28-236 | 80 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | 0.17 | 87 | 20120328 |
| VM28-236 | 82 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | -0.10 | 138 | 20120328 |
| VM28-236 | 82 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | 0.41 | 109 | 20120328 |
| VM28-236 | 82 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | 0.52 | 116 | 20120328 |
| VM28-236 | 82 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | -0.26 | 113 | 20120328 |

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| VM28-236 | 82 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.25 | 102 | 20120328 |
| VM28-236 | 84 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | -1.21 | 105 | 20120328 |
| VM28-236 | 84 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -0.60 | 104 | 20120328 |
| VM28-236 | 84 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -0.94 | 103 | 20120328 |
| VM28-236 | 84 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | -0.77 | 123 | 20120328 |
| VM28-236 | 84 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -0.66 | 102 | 20120328 |
| VM28-236 | 96 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | -0.60 | 117 | 20120402 |
| VM28-236 | 96 | <i>G. tumida</i> | 425-500 | 1 | 1.63 | -0.88 | 95 | 20120402 |
| VM28-236 | 96 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | -0.95 | 107 | 20120402 |
| VM28-236 | 92 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -0.99 | 96 | 20120402 |
| VM28-236 | 16 | <i>G. ruber</i> | 250-355 | 10 | 1.33 | -1.89 | LGM | 20070916 |
| VM28-236 | 20 | <i>G. ruber</i> | 250-355 | 10 | 1.05 | -1.69 | LGM | 20070916 |
| VM28-236 | 24 | <i>G. ruber</i> | 250-355 | 10 | 1.08 | -1.49 | | 20070916 |
| VM28-236 | 32 | <i>G. ruber</i> | 250-355 | 10 | 1.22 | -1.38 | | 20070916 |
| VM28-236 | 36 | <i>G. ruber</i> | 250-355 | 10 | 1.48 | -1.43 | | 20070916 |
| VM28-236 | 40 | <i>G. ruber</i> | 250-355 | 10 | 1.72 | -1.50 | | 20070916 |

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| VM28-236 | 44 | <i>G. ruber</i> | 250-355 | 10 | 1.57 | -1.62 | | | 20070916 |
| VM28-236 | 48 | <i>G. ruber</i> | 250-355 | 10 | 1.57 | -1.70 | | | 20070916 |
| VM28-236 | 52 | <i>G. ruber</i> | 250-355 | 10 | 1.28 | -1.66 | | | 20070916 |
| VM28-236 | 56 | <i>G. ruber</i> | 250-355 | 10 | 1.75 | -1.77 | | | 20070916 |
| VM28-236 | 60 | <i>G. ruber</i> | 250-355 | 10 | 1.38 | -1.80 | | | 20070916 |
| VM28-236 | 0 | <i>G. ruber</i> | 250-355 | 10 | 1.42 | -2.32 | 115 | LH | 20091117 |
| VM28-236 | 64 | <i>G. ruber</i> | 250-355 | 10 | 1.45 | -1.62 | 146 | | 20110509 |
| VM28-236 | 64 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -1.60 | 106 | | 20110509 |
| VM28-236 | 68 | <i>G. ruber</i> | 250-355 | 10 | 1.27 | -1.47 | 122 | | 20110509 |
| VM28-236 | 68 | <i>G. ruber</i> | 250-355 | 10 | 1.14 | -1.62 | 122 | | 20110509 |
| VM28-236 | 72 | <i>G. ruber</i> | 250-355 | 10 | 1.20 | -1.53 | 117 | | 20110509 |
| VM28-236 | 72 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -1.55 | 123 | | 20110509 |
| VM28-236 | 76 | <i>G. ruber</i> | 250-355 | 10 | 1.43 | -1.38 | 105 | | 20110509 |
| VM28-236 | 76 | <i>G. ruber</i> | 250-355 | 10 | 1.47 | -1.45 | 117 | | 20110509 |
| VM28-236 | 80 | <i>G. ruber</i> | 250-355 | 10 | 1.35 | -1.52 | 103 | | 20110509 |
| VM28-236 | 80 | <i>G. ruber</i> | 250-355 | 10 | 1.40 | -1.45 | 105 | | 20110509 |

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| VM28-236 | 82 | <i>G. ruber</i> | 250-355 | 10 | 1.22 | -1.25 | 122 | 20110509 |
| VM28-236 | 82 | <i>G. ruber</i> | 250-355 | 10 | 1.37 | -1.28 | 122 | 20110509 |
| VM28-236 | 84 | <i>G. ruber</i> | 250-355 | 10 | 1.50 | -1.79 | 100 | 20110509 |
| VM28-236 | 84 | <i>G. ruber</i> | 250-355 | 10 | 1.57 | -1.92 | 112 | 20110509 |
| VM28-236 | 88 | <i>G. ruber</i> | 250-355 | 10 | 1.61 | -2.08 | 127 | 20110509 |
| VM28-236 | 88 | <i>G. ruber</i> | 250-355 | 10 | 1.66 | -1.88 | 135 | 20110509 |
| VM28-236 | 92 | <i>G. ruber</i> | 250-355 | 10 | 1.48 | -1.91 | 123 | 20110509 |
| VM28-236 | 92 | <i>G. ruber</i> | 250-355 | 10 | 1.21 | -1.94 | 131 | 20110509 |
| VM28-236 | 96 | <i>G. ruber</i> | 250-355 | 10 | 1.36 | -1.85 | 110 | 20110509 |
| VM28-236 | 96 | <i>G. ruber</i> | 250-355 | 10 | 1.32 | -2.21 | 115 | 20110509 |
| VM28-236 | 100 | <i>G. ruber</i> | 250-355 | 10 | 1.36 | -1.78 | 109 | 20110509 |
| VM28-236 | 100 | <i>G. ruber</i> | 250-355 | 10 | 1.48 | -1.88 | 123 | 20110509 |
| VM28-236 | 104 | <i>G. ruber</i> | 250-355 | 10 | 1.34 | -2.02 | 100 | 20110509 |
| VM28-236 | 104 | <i>G. ruber</i> | 250-355 | 10 | 1.38 | -1.99 | 120 | 20110509 |
| VM28-236 | 108 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -1.79 | 121 | 20110513 |
| VM28-236 | 108 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -1.89 | 109 | 20110513 |

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| VM28-236 | 112 | <i>G. ruber</i> | 250-355 | 10 | 1.35 | -1.83 | 113 | 20110513 |
| VM28-236 | 112 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -1.60 | 102 | 20110513 |
| VM28-236 | 116 | <i>G. ruber</i> | 250-355 | 10 | 1.37 | -1.94 | 119 | 20110513 |
| VM28-236 | 116 | <i>G. ruber</i> | 250-355 | 10 | 1.22 | -1.79 | 131 | 20110513 |
| VM28-236 | 120 | <i>G. ruber</i> | 250-355 | 10 | 1.34 | -1.73 | 113 | 20110513 |
| VM28-236 | 120 | <i>G. ruber</i> | 250-355 | 10 | 1.09 | -1.61 | 111 | 20110513 |
| VM28-236 | 124 | <i>G. ruber</i> | 250-355 | 10 | 0.68 | -1.52 | 111 | 20110513 |
| VM28-236 | 124 | <i>G. ruber</i> | 250-355 | 10 | 1.21 | -1.86 | 112 | 20110513 |
| VM28-236 | 128 | <i>G. ruber</i> | 250-355 | 10 | 0.93 | -1.94 | 101 | 20110513 |
| VM28-236 | 128 | <i>G. ruber</i> | 250-355 | 10 | 0.88 | -1.93 | 114 | 20110513 |
| VM28-236 | 132 | <i>G. ruber</i> | 250-355 | 10 | 0.93 | -1.72 | 131 | 20110513 |
| VM28-236 | 132 | <i>G. ruber</i> | 250-355 | 10 | 1.15 | -1.82 | 131 | 20110513 |
| VM28-236 | 136 | <i>G. ruber</i> | 250-355 | 10 | 0.92 | -1.80 | 119 | 20110513 |
| VM28-236 | 136 | <i>G. ruber</i> | 250-355 | 10 | 0.88 | -1.41 | 119 | 20110513 |
| VM28-236 | 140 | <i>G. ruber</i> | 250-355 | 10 | 0.93 | -1.50 | 106 | 20110513 |
| VM28-236 | 140 | <i>G. ruber</i> | 250-355 | 10 | 0.86 | -1.36 | 132 | 20110513 |

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| VM28-236 | 144 | <i>G. ruber</i> | 250-355 | 10 | 0.83 | -1.20 | 130 | 20110513 |
| VM28-236 | 144 | <i>G. ruber</i> | 250-355 | 10 | 1.05 | -1.31 | 113 | 20110513 |
| VM28-236 | 148 | <i>G. ruber</i> | 250-355 | 10 | 0.98 | -1.37 | 132 | 20110513 |
| VM28-236 | 148 | <i>G. ruber</i> | 250-355 | 10 | 0.86 | -1.12 | 110 | 20110513 |
| VM28-236 | 152 | <i>G. ruber</i> | 250-355 | 10 | 0.99 | -1.16 | 130 | 20110513 |
| VM28-236 | 152 | <i>G. ruber</i> | 250-355 | 10 | 1.20 | -1.29 | 132 | 20110513 |
| VM28-236 | 156 | <i>G. ruber</i> | 250-355 | 10 | 1.12 | -1.31 | 120 | 20110513 |
| VM28-236 | 156 | <i>G. ruber</i> | 250-355 | 10 | 0.94 | -1.27 | 115 | 20110513 |
| VM28-236 | 160 | <i>G. ruber</i> | 250-355 | 10 | 1.07 | -1.08 | 115 | 20110513 |
| VM28-236 | 160 | <i>G. ruber</i> | 250-355 | 10 | 0.79 | -0.86 | 104 | 20110513 |
| VM28-236 | 164 | <i>G. ruber</i> | 250-355 | 10 | 1.17 | -0.99 | 120 | 20110513 |
| VM28-236 | 164 | <i>G. ruber</i> | 250-355 | 10 | 0.93 | -0.99 | 109 | 20110513 |
| VM28-236 | 168 | <i>G. ruber</i> | 250-355 | 10 | 1.15 | -1.12 | 113 | 20110513 |
| VM28-236 | 168 | <i>G. ruber</i> | 250-355 | 10 | 0.86 | -1.11 | 113 | 20110513 |
| VM28-236 | 172 | <i>G. ruber</i> | 250-355 | 10 | 1.11 | -1.26 | 124 | 20110513 |
| VM28-236 | 172 | <i>G. ruber</i> | 250-355 | 10 | 0.86 | -1.55 | 109 | 20110513 |

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|----------|-----|-----------------|---------|----|------|-------|-----|----------|
| VM28-236 | 176 | <i>G. ruber</i> | 250-355 | 10 | 1.00 | -1.62 | 133 | 20110513 |
| VM28-236 | 176 | <i>G. ruber</i> | 250-355 | 10 | 1.03 | -1.56 | 128 | 20110513 |
| VM28-236 | 180 | <i>G. ruber</i> | 250-355 | 10 | 1.00 | -1.50 | 116 | 20110513 |
| VM28-236 | 180 | <i>G. ruber</i> | 250-355 | 10 | 0.99 | -1.61 | 123 | 20110513 |
| VM28-236 | 184 | <i>G. ruber</i> | 250-355 | 10 | 0.99 | -1.40 | 134 | 20110516 |
| VM28-236 | 184 | <i>G. ruber</i> | 250-355 | 10 | 1.02 | -1.37 | 137 | 20110516 |
| VM28-236 | 188 | <i>G. ruber</i> | 250-355 | 10 | 1.20 | -1.38 | 136 | 20110516 |
| VM28-236 | 188 | <i>G. ruber</i> | 250-355 | 10 | 1.12 | -1.47 | 118 | 20110516 |
| VM28-236 | 192 | <i>G. ruber</i> | 250-355 | 10 | 1.11 | -1.66 | 117 | 20110516 |
| VM28-236 | 192 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -1.35 | 108 | 20110516 |
| VM28-236 | 196 | <i>G. ruber</i> | 250-355 | 10 | 1.30 | -1.64 | 120 | 20110516 |
| VM28-236 | 196 | <i>G. ruber</i> | 250-355 | 10 | 1.13 | -1.53 | 110 | 20110516 |
| VM28-236 | 188 | <i>G. ruber</i> | 250-355 | 10 | 1.51 | 0.08 | 130 | 20111215 |
| VM28-236 | 188 | <i>G. ruber</i> | 250-355 | 10 | 1.70 | 0.16 | 107 | 20111215 |
| VM28-236 | 188 | <i>G. ruber</i> | 250-355 | 10 | 1.36 | 0.02 | 105 | 20111215 |
| VM28-236 | 188 | <i>G. ruber</i> | 250-355 | 10 | 1.81 | -0.22 | 134 | 20111215 |

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|----------|-----|-----------------|---------|----|------|-------|-----|----------|
| VM28-236 | 188 | <i>G. ruber</i> | 250-355 | 10 | 1.74 | -0.40 | 125 | 20111215 |
| VM28-236 | 188 | <i>G. ruber</i> | 250-355 | 10 | 1.90 | -0.23 | 112 | 20111215 |
| VM28-236 | 188 | <i>G. ruber</i> | 250-355 | 10 | 1.38 | 0.14 | 123 | 20111215 |
| VM28-236 | 188 | <i>G. ruber</i> | 250-355 | 10 | 1.95 | -0.22 | 135 | 20111215 |
| VM28-236 | 188 | <i>G. ruber</i> | 250-355 | 10 | 1.41 | 0.24 | 113 | 20111215 |
| VM28-236 | 192 | <i>G. ruber</i> | 250-355 | 10 | 2.05 | -0.39 | 125 | 20111215 |
| VM28-236 | 192 | <i>G. ruber</i> | 250-355 | 10 | 1.92 | -0.41 | 123 | 20111215 |
| VM28-236 | 192 | <i>G. ruber</i> | 250-355 | 10 | 2.01 | -0.54 | 108 | 20111215 |
| VM28-236 | 192 | <i>G. ruber</i> | 250-355 | 10 | 1.28 | 0.14 | 108 | 20111215 |
| VM28-236 | 192 | <i>G. ruber</i> | 250-355 | 10 | 1.63 | 0.32 | 97 | 20111215 |
| VM28-236 | 192 | <i>G. ruber</i> | 250-355 | 10 | 1.76 | -0.07 | 95 | 20111215 |
| VM28-236 | 192 | <i>G. ruber</i> | 250-355 | 10 | 1.88 | 0.40 | 113 | 20111215 |
| VM28-236 | 192 | <i>G. ruber</i> | 250-355 | 10 | 1.55 | -0.05 | 117 | 20111215 |
| VM28-236 | 192 | <i>G. ruber</i> | 250-355 | 10 | 1.53 | -0.73 | 115 | 20111215 |
| VM28-236 | 196 | <i>G. ruber</i> | 250-355 | 10 | 1.50 | -0.94 | 148 | 20111215 |
| VM28-236 | 196 | <i>G. ruber</i> | 250-355 | 10 | 2.13 | -0.02 | 103 | 20111215 |

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|----------|-----|---------------------------|---------|----|------|-------|-----|----------|
| VM28-236 | 196 | <i>G. ruber</i> | 250-355 | 10 | 1.75 | -0.58 | 146 | 20111215 |
| VM28-236 | 196 | <i>G. ruber</i> | 250-355 | 10 | 1.98 | -0.48 | 122 | 20111215 |
| VM28-236 | 16 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.47 | -0.21 | 33 | 20111129 |
| VM28-236 | 16 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.37 | 0.04 | 41 | 20111129 |
| VM28-236 | 16 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.42 | -1.13 | 34 | 20111129 |
| VM28-236 | 16 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.14 | -0.92 | 50 | 20111129 |
| VM28-236 | 16 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.20 | -1.27 | 38 | 20111129 |
| VM28-236 | 20 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.52 | -0.27 | 43 | 20111129 |
| VM28-236 | 20 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.15 | -0.91 | 40 | 20111129 |
| VM28-236 | 20 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.02 | -0.55 | 40 | 20111129 |
| VM28-236 | 20 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.04 | -1.17 | 39 | 20111129 |
| VM28-236 | 20 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.16 | -1.22 | 37 | 20111129 |
| VM28-236 | 16 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.37 | -1.53 | 45 | 20111214 |
| VM28-236 | 16 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.89 | -0.67 | 38 | 20111214 |
| VM28-236 | 16 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.84 | -0.87 | 30 | 20111214 |
| VM28-236 | 20 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.67 | -0.40 | 30 | 20111214 |

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|----------|----|---------------------------|---------|---|-------|-------|----|----------|
| VM28-236 | 20 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.49 | -0.39 | 48 | 20111214 |
| VM28-236 | 4 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.47 | 2.48 | 25 | 20100806 |
| VM28-236 | 4 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.04 | 3.18 | 22 | 20100806 |
| VM28-236 | 8 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.03 | 3.29 | 35 | 20100806 |
| VM28-236 | 12 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.24 | 2.50 | 31 | 20100806 |
| VM28-236 | 12 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.01 | 4.08 | 25 | 20100806 |
| VM28-236 | 16 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.06 | 3.68 | 31 | 20100806 |
| VM28-236 | 20 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.01 | 3.40 | 30 | 20100806 |
| VM28-236 | 24 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.01 | 3.99 | 37 | 20100806 |
| VM28-236 | 24 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.02 | 3.77 | 43 | 20100806 |
| VM28-236 | 32 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.05 | 3.66 | 42 | 20100806 |
| VM28-236 | 32 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.16 | 3.49 | 25 | 20100806 |
| VM28-236 | 32 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.01 | 3.82 | 27 | 20100806 |
| VM28-236 | 36 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.13 | 3.33 | 44 | 20100806 |
| VM28-236 | 36 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.10 | 3.45 | 33 | 20100806 |
| VM28-236 | 36 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.14 | 3.96 | 40 | 20100806 |

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|----------|----|-------------------------|------|---|-------|------|-----|----------|
| VM28-236 | 40 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.14 | 3.58 | 27 | 20100806 |
| VM28-236 | 40 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.05 | 3.55 | 42 | 20100806 |
| VM28-236 | 44 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.15 | 3.22 | 26 | 20100806 |
| VM28-236 | 44 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.14 | 3.35 | 30 | 20100806 |
| VM28-236 | 48 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.20 | 3.32 | 37 | 20100806 |
| VM28-236 | 48 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.11 | 3.70 | 42 | 20100806 |
| VM28-236 | 52 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.20 | 3.35 | 47 | 20100806 |
| VM28-236 | 12 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.07 | 3.72 | 223 | 20100809 |
| VM28-236 | 20 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.05 | 3.98 | 152 | 20100809 |
| VM28-236 | 24 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.15 | 3.23 | 90 | 20100809 |
| VM28-236 | 48 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.11 | 3.26 | 52 | 20100809 |
| VM28-236 | 52 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.08 | 3.26 | 64 | 20100809 |
| VM28-236 | 52 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.17 | 3.39 | 118 | 20100809 |
| VM28-236 | 56 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.03 | 3.34 | 80 | 20100809 |
| VM28-236 | 56 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.07 | 3.08 | 112 | 20100809 |
| VM28-236 | 56 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.18 | 3.14 | 59 | 20100809 |

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| VM28-236 | 4 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.18 | 2.48 | 114 | 20100809 |
| VM28-236 | 8 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.02 | 3.49 | 102 | 20100809 |
| VM28-236 | 8 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.24 | 3.56 | 188 | 20100809 |
| VM28-236 | 52 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.24 | 3.34 | 119 | 20100809 |
| VM28-236 | 60 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.17 | 3.33 | 128 | 20100809 |
| VM28-236 | 136 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.11 | 3.72 | 176 | 20120525 |
| VM28-236 | 140 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.28 | 4.00 | 166 | 20120525 |
| VM28-236 | 144 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.35 | 3.78 | 136 | 20120525 |
| VM28-236 | 144 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.11 | 3.65 | 80 | 20120525 |
| VM28-236 | 144 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.17 | 3.95 | 89 | 20120525 |
| VM28-236 | 148 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.10 | 3.26 | 99 | 20120525 |
| VM28-236 | 76 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.25 | 3.70 | 58 | 20120525 |
| VM28-236 | 148 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.11 | 4.10 | 145 | 20120525 |
| VM28-236 | 76 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.19 | 2.78 | 65 | 20120525 |
| VM28-236 | 76 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.22 | 3.82 | 66 | 20120525 |
| VM28-236 | 80 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.09 | 3.35 | 64 | 20120525 |

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|----------|-----|-------------------------|------|---|-------|------|-----|----------|
| VM28-236 | 82 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.08 | 4.12 | 97 | 20120525 |
| VM28-236 | 82 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.02 | 4.06 | 55 | 20120525 |
| VM28-236 | 82 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.14 | 3.53 | 140 | 20120525 |
| VM28-236 | 84 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.01 | 3.51 | 96 | 20120525 |
| VM28-236 | 88 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.05 | 2.87 | 118 | 20120525 |
| VM28-236 | 88 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.20 | 2.77 | 125 | 20120525 |
| VM28-236 | 88 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.00 | 3.02 | 128 | 20120525 |
| VM28-236 | 92 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.01 | 2.90 | 128 | 20120525 |
| VM28-236 | 92 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.09 | 3.42 | 104 | 20120525 |
| VM28-236 | 96 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.25 | 3.05 | 108 | 20120525 |
| VM28-236 | 96 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.19 | 3.10 | 51 | 20120525 |
| VM28-236 | 100 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.01 | 3.20 | 57 | 20120525 |
| VM28-236 | 104 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.06 | 3.19 | 109 | 20120525 |
| VM28-236 | 112 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.08 | 3.18 | 86 | 20120525 |
| VM28-236 | 116 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.13 | 2.96 | 141 | 20120525 |
| VM28-236 | 116 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.05 | 3.05 | 53 | 20120525 |

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| VM28-236 | 124 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.21 | 3.64 | 59 | 20120525 |
| VM28-236 | 128 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.36 | 3.64 | 55 | 20120525 |
| VM28-236 | 128 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.07 | 2.82 | 81 | 20120525 |
| VM28-236 | 132 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.17 | 3.90 | 100 | 20120525 |
| VM28-236 | 152 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.36 | 3.60 | 58 | 20120525 |
| VM28-236 | 156 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.30 | 3.83 | 101 | 20120525 |
| VM28-236 | 160 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.38 | 3.53 | 95 | 20120525 |
| VM28-236 | 160 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.33 | 3.79 | 67 | 20120525 |
| VM28-236 | 160 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.38 | 3.95 | 67 | 20120525 |
| VM28-236 | 168 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.36 | 3.58 | 159 | 20120525 |
| VM28-236 | 168 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.29 | 3.56 | 67 | 20120525 |
| VM28-236 | 136 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.27 | 3.84 | 39 | 20120529 |
| VM28-236 | 136 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.29 | 3.95 | 25 | 20120529 |
| VM28-236 | 80 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.16 | 2.85 | 31 | 20120529 |
| VM28-236 | 80 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.01 | 3.68 | 25 | 20120529 |
| VM28-236 | 84 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.20 | 3.00 | 46 | 20120529 |

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|----------|-----|-------------------------|------|---|-------|------|----|----------|
| VM28-236 | 92 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.04 | 3.09 | 49 | 20120529 |
| VM28-236 | 96 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.03 | 3.07 | 38 | 20120529 |
| VM28-236 | 100 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.25 | 3.28 | 35 | 20120529 |
| VM28-236 | 100 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.23 | 3.38 | 34 | 20120529 |
| VM28-236 | 104 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.08 | 3.11 | 28 | 20120529 |
| VM28-236 | 112 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.03 | 3.06 | 45 | 20120529 |
| VM28-236 | 112 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.18 | 3.15 | 47 | 20120529 |
| VM28-236 | 116 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.20 | 4.16 | 40 | 20120529 |
| VM28-236 | 120 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.17 | 3.09 | 24 | 20120529 |
| VM28-236 | 124 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.07 | 3.05 | 38 | 20120529 |
| VM28-236 | 124 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.26 | 4.03 | 31 | 20120529 |
| VM28-236 | 128 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.02 | 2.96 | 22 | 20120529 |
| VM28-236 | 132 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.04 | 3.13 | 27 | 20120529 |
| VM28-236 | 132 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.46 | 3.72 | 21 | 20120529 |
| VM28-236 | 152 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.23 | 4.05 | 36 | 20120529 |
| VM28-236 | 152 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.29 | 3.71 | 27 | 20120529 |

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|------------|-----|-------------------------|---------|----|-------|-------|-----|-----|----------|
| VM28-236 | 156 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.34 | 3.87 | 34 | | 20120529 |
| VM28-236 | 156 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.37 | 3.79 | 21 | | 20120529 |
| VM28-236 | 164 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.27 | 3.72 | 26 | | 20120529 |
| VM28-236 | 164 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.35 | 3.68 | 22 | | 20120529 |
| VM28-236 | 168 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.15 | 3.18 | 38 | | 20120529 |
| VM28-230TW | 4 | <i>G. ruber</i> | 250-355 | 10 | 1.55 | -2.16 | 139 | | 20100409 |
| VM28-230 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.82 | 106 | LGM | 20090310 |
| VM28-230 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.59 | 0.32 | 107 | LGM | 20090310 |
| VM28-230 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | 0.12 | 162 | LGM | 20090310 |
| VM28-230 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | 0.09 | 166 | LGM | 20090310 |
| VM28-230 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | -0.44 | 174 | | 20090310 |
| VM28-230 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | 0.21 | 99 | | 20090310 |
| VM28-230 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | 0.03 | 125 | | 20090310 |
| VM28-230 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | -0.63 | 151 | | 20090310 |
| VM28-230 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | -1.03 | 143 | | 20090310 |
| VM28-230 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | -1.22 | 149 | | 20090310 |

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| VM28-230 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -1.35 | 110 | 20090310 |
| VM28-230 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -0.98 | 147 | 20090310 |
| VM28-230 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | -0.41 | 171 | 20090310 |
| VM28-230 | 5 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -1.72 | 86 | 20090310 |
| VM28-230 | 5 | <i>G. tumida</i> | 425-500 | 1 | 1.61 | -1.25 | 124 | 20090310 |
| VM28-230 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | -0.70 | 105 | 20090310 |
| VM28-230 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | 0.07 | 157 | 20090310 |
| VM28-230 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | 0.12 | 118 | 20090310 |
| VM28-230 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | 0.07 | 131 | 20090310 |
| VM28-230 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.03 | 135 | 20090310 |
| VM28-230 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | 1.50 | 104 | 20090310 |
| VM28-230 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.26 | -0.09 | 121 | 20090310 |
| VM28-230 | 60 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | -0.14 | 120 | 20090312 |
| VM28-230 | 60 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | -0.11 | 117 | 20090312 |
| VM28-230 | 60 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.49 | 117 | 20090312 |
| VM28-230 | 56 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | 0.05 | 151 | 20090312 |

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| VM28-230 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.09 | 144 | 20090312 |
| VM28-230 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -0.13 | 140 | 20090312 |
| VM28-230 | 52 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | 0.42 | 134 | 20090312 |
| VM28-230 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.33 | -0.42 | 119 | 20090312 |
| VM28-230 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.37 | 0.10 | 132 | 20090312 |
| VM28-230 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.70 | 118 | 20090312 |
| VM28-230 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.22 | 129 | 20090312 |
| VM28-230 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | 0.17 | 140 | 20090312 |
| VM28-230 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.30 | 0.25 | 118 | 20090312 |
| VM28-230 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | -0.08 | 131 | 20090312 |
| VM28-230 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | 0.01 | 132 | 20090312 |
| VM28-230 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | -0.57 | 132 | 20090312 |
| VM28-230 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | 0.37 | 152 | 20090312 |
| VM28-230 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | 0.50 | 123 | 20090312 |
| VM28-230 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | 0.27 | 117 | 20090312 |
| VM28-230 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.25 | -0.26 | 157 | 20090312 |

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| VM28-230 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | -0.04 | 115 | | 20090320 |
| VM28-230 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | 0.07 | 119 | | 20090320 |
| VM28-230 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.78 | -0.27 | 166 | | 20090320 |
| VM28-230 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.28 | 141 | | 20090320 |
| VM28-230 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.00 | 106 | | 20090320 |
| VM28-230 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.37 | -0.02 | 127 | | 20090320 |
| VM28-230 | 5 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | -1.06 | 135 | | 20090326 |
| VM28-230 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 1.34 | 132 | LGM | 20090326 |
| VM28-230 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -0.01 | 105 | LGM | 20100909 |
| VM28-230 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.43 | 0.47 | 129 | LGM | 20100909 |
| VM28-230 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | 0.30 | 112 | LGM | 20100909 |
| VM28-230 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | -0.01 | 95 | LGM | 20100909 |
| VM28-230 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | 0.10 | 127 | LGM | 20100909 |
| VM28-230 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | 0.33 | 128 | LGM | 20100909 |
| VM28-230 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | 0.77 | 103 | LGM | 20100909 |
| VM28-230 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.30 | 0.07 | 113 | LGM | 20100909 |

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|----------|----|------------------|---------|---|------|-------|-----|----------|
| VM28-230 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | 0.55 | 118 | 20100913 |
| VM28-230 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | 0.18 | 114 | 20100913 |
| VM28-230 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.59 | -0.40 | 115 | 20100913 |
| VM28-230 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | -0.04 | 145 | 20100913 |
| VM28-230 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -0.18 | 131 | 20100913 |
| VM28-230 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | 0.37 | 117 | 20100913 |
| VM28-230 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | 0.22 | 113 | 20100913 |
| VM28-230 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | -0.48 | 95 | 20100913 |
| VM28-230 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | 0.26 | 131 | 20100913 |
| VM28-230 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.37 | -0.03 | 112 | 20120326 |
| VM28-230 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | 0.23 | 116 | 20120326 |
| VM28-230 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.57 | -0.13 | 149 | 20120326 |
| VM28-230 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -0.09 | 146 | 20120326 |
| VM28-230 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | 0.06 | 102 | 20120326 |
| VM28-230 | 12 | <i>G. tumida</i> | 425-500 | 1 | 0.25 | -1.24 | 129 | 20120326 |
| VM28-230 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | 0.10 | 137 | 20120326 |

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|----------|----|------------------|---------|----|------|-------|-----|-----|----------|
| VM28-230 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.52 | -0.50 | 137 | | 20120326 |
| VM28-230 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | 0.96 | 109 | | 20120326 |
| VM28-230 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -1.29 | 118 | | 20120326 |
| VM28-230 | 24 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -1.37 | 137 | LGM | 20090305 |
| VM28-230 | 20 | <i>G. ruber</i> | 250-355 | 10 | 1.22 | -1.40 | 129 | LGM | 20090305 |
| VM28-230 | 16 | <i>G. ruber</i> | 250-355 | 10 | 1.34 | -1.78 | 131 | | 20090305 |
| VM28-230 | 12 | <i>G. ruber</i> | 250-355 | 10 | 1.31 | -1.90 | 111 | | 20090305 |
| VM28-230 | 8 | <i>G. ruber</i> | 250-355 | 10 | 1.35 | -2.03 | 125 | | 20090305 |
| VM28-230 | 5 | <i>G. ruber</i> | 250-355 | 10 | 1.41 | -2.14 | 115 | | 20090305 |
| VM28-230 | 60 | <i>G. ruber</i> | 250-355 | 10 | 1.37 | -1.36 | 127 | | 20090310 |
| VM28-230 | 56 | <i>G. ruber</i> | 250-355 | 10 | 1.41 | -1.33 | 137 | | 20090310 |
| VM28-230 | 52 | <i>G. ruber</i> | 250-355 | 10 | 1.31 | -1.35 | 123 | | 20090310 |
| VM28-230 | 48 | <i>G. ruber</i> | 250-355 | 10 | 1.50 | -1.34 | 134 | | 20090310 |
| VM28-230 | 44 | <i>G. ruber</i> | 250-355 | 10 | 1.63 | -1.22 | 124 | | 20090310 |
| VM28-230 | 40 | <i>G. ruber</i> | 250-355 | 10 | 1.39 | -1.16 | 110 | | 20090310 |
| VM28-230 | 36 | <i>G. ruber</i> | 250-355 | 10 | 1.42 | -1.17 | 147 | | 20090310 |

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|----------|----|---------------------------|---------|----|-------|-------|-----|----------|
| VM28-230 | 32 | <i>G. ruber</i> | 250-355 | 10 | 1.50 | -0.87 | 128 | 20090310 |
| VM28-230 | 28 | <i>G. ruber</i> | 250-355 | 10 | 1.27 | -1.47 | 135 | 20090310 |
| VM28-230 | 20 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.20 | -0.55 | 48 | 20111129 |
| VM28-230 | 20 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.42 | -0.35 | 45 | 20111129 |
| VM28-230 | 20 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.34 | -0.02 | 46 | 20111129 |
| VM28-230 | 20 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.43 | -1.08 | 48 | 20111129 |
| VM28-230 | 20 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.40 | 0.12 | 36 | 20111129 |
| VM28-230 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.11 | 0.10 | 38 | 20111129 |
| VM28-230 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.91 | -0.82 | 47 | 20111129 |
| VM28-230 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.15 | -0.27 | 47 | 20111129 |
| VM28-230 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.79 | -0.45 | 32 | 20111129 |
| VM28-230 | 24 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.84 | 0.00 | 41 | 20111129 |
| VM28-230 | 12 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.09 | 3.36 | 56 | 20100728 |
| VM28-230 | 16 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.03 | 3.43 | 74 | 20100728 |
| VM28-230 | 20 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.06 | 3.55 | 74 | 20100728 |
| VM28-230 | 20 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.16 | 3.84 | 50 | 20100728 |

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| VM28-230 | 24 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.09 | 3.80 | 57 | 20100728 |
| VM28-230 | 24 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.12 | 3.98 | 51 | 20100728 |
| VM28-230 | 28 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.15 | 4.10 | 59 | 20100728 |
| VM28-230 | 40 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.05 | 3.69 | 59 | 20100728 |
| VM28-230 | 44 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.19 | 3.40 | 54 | 20100728 |
| VM28-230 | 8 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.40 | 2.33 | 39 | 20100802 |
| VM28-230 | 8 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.13 | 3.95 | 28 | 20100802 |
| VM28-230 | 8 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.08 | 3.46 | 36 | 20100802 |
| VM28-230 | 12 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.09 | 3.85 | 23 | 20100802 |
| VM28-230 | 16 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.08 | 3.98 | 22 | 20100802 |
| VM28-230 | 24 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.04 | 4.00 | 22 | 20100802 |
| VM28-230 | 28 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.02 | 3.97 | 28 | 20100802 |
| VM28-230 | 32 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.14 | 3.53 | 32 | 20100802 |
| VM28-230 | 36 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.17 | 3.91 | 31 | 20100802 |
| VM28-230 | 36 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.02 | 3.98 | 40 | 20100802 |
| VM28-230 | 36 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.14 | 3.63 | 24 | 20100802 |

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|------------|----|-------------------------|---------|---|-------|-------|-----|----|----------|
| VM28-230 | 40 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.05 | 3.33 | 24 | | 20100802 |
| VM28-230 | 44 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.07 | 3.27 | 24 | | 20100802 |
| VM28-230 | 44 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.14 | 3.63 | 25 | | 20100802 |
| VM28-230 | 48 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.00 | 3.69 | 33 | | 20100802 |
| VM28-230 | 52 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.22 | 3.24 | 21 | | 20100802 |
| VM28-230 | 52 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.20 | 3.33 | 34 | | 20100802 |
| VM28-230 | 56 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.06 | 3.39 | 21 | | 20100802 |
| VM28-230 | 56 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.01 | 3.61 | 30 | | 20100802 |
| VM28-230 | 56 | <i>C. wuellerstorfi</i> | >250 | 1 | 0.04 | 3.67 | 23 | | 20100802 |
| VM28-230 | 60 | <i>C. wuellerstorfi</i> | >250 | 1 | -0.16 | 3.39 | 31 | | 20100802 |
| VM28-235TW | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.76 | -1.19 | 108 | LH | 20100423 |
| VM28-235TW | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | -1.54 | 153 | LH | 20100423 |
| VM28-235TW | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -1.03 | 138 | LH | 20100423 |
| VM28-235TW | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -1.50 | 134 | LH | 20100423 |
| VM28-235TW | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.76 | 0.81 | 141 | LH | 20100423 |
| VM28-235TW | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.76 | -1.27 | 126 | LH | 20100616 |

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| VM28-235TW | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.62 | -0.19 | 118 | LH | 20100616 |
| VM28-235TW | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.58 | -0.29 | 157 | LH | 20100616 |
| VM28-235TW | 3 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | -1.36 | 152 | | 20100616 |
| VM28-235TW | 3 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | -1.60 | 146 | | 20100616 |
| VM28-235TW | 3 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | -1.58 | 165 | | 20100616 |
| VM28-235TW | 5 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | -1.70 | 152 | | 20100616 |
| VM28-235TW | 5 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | -1.13 | 110 | | 20100616 |
| VM28-235TW | 5 | <i>G. tumida</i> | 425-500 | 1 | 1.47 | -0.23 | 131 | | 20100616 |
| VM28-235TW | 7 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | -0.90 | 145 | | 20100616 |
| VM28-235TW | 7 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | -1.10 | 117 | | 20100616 |
| VM28-235TW | 7 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -0.03 | 132 | | 20100616 |
| VM28-235TW | 7 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -2.13 | 126 | | 20100409 |
| VM28-235TW | 5 | <i>G. ruber</i> | 250-355 | 10 | 1.55 | -2.46 | 142 | | 20100409 |
| VM28-235TW | 3 | <i>G. ruber</i> | 250-355 | 10 | 1.57 | -2.38 | 147 | | 20100409 |
| VM28-235TW | 2 | <i>G. ruber</i> | 250-355 | 10 | 1.43 | -2.14 | 145 | LH | 20100409 |
| VM28-235TW | 2 | <i>G. tumida</i> | 355-425 | 1 | 1.86 | -1.55 | 90 | LH | 20100927 |

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| VM28-235TW | 2 | <i>G. tumida</i> | 355-425 | 1 | 2.01 | -0.02 | 87 | LH | 20100927 |
| VM28-235TW | 2 | <i>G. tumida</i> | 355-425 | 1 | 1.92 | -0.33 | 85 | LH | 20100927 |
| VM28-235TW | 2 | <i>G. tumida</i> | 355-425 | 1 | 1.76 | -1.05 | 91 | LH | 20100927 |
| VM28-235TW | 2 | <i>G. tumida</i> | 355-425 | 1 | 2.05 | -1.31 | 104 | LH | 20100927 |
| VM28-235TW | 2 | <i>G. tumida</i> | 355-425 | 1 | 2.05 | -0.53 | 106 | LH | 20100927 |
| VM28-235TW | 2 | <i>G. tumida</i> | 355-425 | 1 | 1.97 | 0.64 | 99 | LH | 20100927 |
| VM28-235TW | 2 | <i>G. tumida</i> | 355-425 | 1 | 1.98 | -0.78 | 89 | LH | 20100927 |
| VM28-235 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.16 | 140 | | 20090329 |
| VM28-235 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.33 | 0.06 | 112 | | 20090329 |
| VM28-235 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.26 | 0.01 | 135 | | 20090329 |
| VM28-235 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | -0.27 | 132 | | 20090329 |
| VM28-235 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | 1.32 | 127 | | 20090329 |
| VM28-235 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | 0.19 | 143 | | 20090329 |
| VM28-235 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | 0.54 | 131 | | 20090329 |
| VM28-235 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | -0.04 | 129 | | 20090329 |
| VM28-235 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.42 | 117 | | 20090329 |

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| VM28-235 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | 0.67 | 131 | 20090329 |
| VM28-235 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.31 | 0.13 | 105 | 20090329 |
| VM28-235 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | -0.10 | 141 | 20090329 |
| VM28-235 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | -1.40 | 139 | 20100616 |
| VM28-235 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | -1.02 | 128 | 20100616 |
| VM28-235 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | -1.05 | 131 | 20100616 |
| VM28-235 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -0.89 | 159 | 20100616 |
| VM28-235 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | -1.54 | 161 | 20100616 |
| VM28-235 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -1.05 | 144 | 20100616 |
| VM28-235 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.11 | 153 | 20100616 |
| VM28-235 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.52 | -0.83 | 160 | 20100616 |
| VM28-235 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | 0.31 | 127 | 20100616 |
| VM28-235 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | -0.96 | 152 | 20100616 |
| VM28-235 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.25 | -0.90 | 119 | 20100616 |
| VM28-235 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.59 | 136 | 20100616 |
| VM28-235 | 45 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -0.04 | 156 | 20100916 |

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| VM28-235 | 45 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | 0.14 | 143 | 20100916 |
| VM28-235 | 45 | <i>G. tumida</i> | 425-500 | 1 | 2.42 | -0.47 | 115 | 20100916 |
| VM28-235 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | 0.74 | 116 | 20100916 |
| VM28-235 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | 0.08 | 143 | 20100916 |
| VM28-235 | 52 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | -0.31 | 122 | 20100916 |
| VM28-235 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | 0.27 | 140 | 20100916 |
| VM28-235 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | -0.39 | 150 | 20100916 |
| VM28-235 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.27 | -0.39 | 131 | 20100916 |
| VM28-235 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | -0.10 | 157 | 20100916 |
| VM28-235 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.33 | -0.30 | 126 | 20100916 |
| VM28-235 | 60 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | -0.05 | 141 | 20100916 |
| VM28-235 | 60 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | 0.56 | 98 | 20100916 |
| VM28-235 | 60 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | -0.52 | 165 | 20100916 |
| VM28-235 | 36 | <i>G. tumida</i> | 355-425 | 1 | 1.72 | 0.25 | 86 | 20100928 |
| VM28-235 | 36 | <i>G. tumida</i> | 355-425 | 1 | 1.92 | 0.79 | 81 | 20100928 |
| VM28-235 | 36 | <i>G. tumida</i> | 355-425 | 1 | 2.17 | -0.21 | 98 | 20100928 |

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| VM28-235 | 36 | <i>G. tumida</i> | 355-425 | 1 | 2.20 | -0.08 | 74 | | 20100928 |
| VM28-235 | 36 | <i>G. tumida</i> | 355-425 | 1 | 2.28 | -0.03 | 82 | | 20100928 |
| VM28-235 | 36 | <i>G. tumida</i> | 355-425 | 1 | 1.96 | -0.49 | 67 | | 20100928 |
| VM28-235 | 36 | <i>G. tumida</i> | 355-425 | 1 | 2.18 | 0.15 | 94 | | 20100928 |
| VM28-235 | 36 | <i>G. tumida</i> | 355-425 | 1 | 1.91 | 0.83 | 73 | | 20100928 |
| VM28-235 | 31 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | 0.09 | 172 | LGM | 20101221 |
| VM28-235 | 31 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | 0.29 | 125 | LGM | 20101221 |
| VM28-235 | 31 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | 0.59 | 118 | LGM | 20101221 |
| VM28-235 | 31 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 0.32 | 142 | LGM | 20101221 |
| VM28-235 | 31 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | 0.08 | 102 | LGM | 20101221 |
| VM28-235 | 31 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | 0.81 | 99 | LGM | 20101221 |
| VM28-235 | 31 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | 0.28 | 114 | LGM | 20101221 |
| VM28-235 | 31 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | 0.14 | 133 | LGM | 20101221 |
| VM28-235 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | 1.00 | 146 | | 20120328 |
| VM28-235 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | -0.07 | 143 | | 20120328 |
| VM28-235 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | 0.68 | 127 | | 20120328 |

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| VM28-235 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | -0.12 | 153 | | 20120328 |
| VM28-235 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.78 | 1.34 | 158 | | 20120328 |
| VM28-235 | 8 | <i>G. ruber</i> | 250-355 | 10 | 1.48 | -2.19 | 149 | | 20090326 |
| VM28-235 | 12 | <i>G. ruber</i> | 250-355 | 10 | 1.31 | -2.11 | 147 | | 20090326 |
| VM28-235 | 16 | <i>G. ruber</i> | 250-355 | 10 | 1.19 | -2.16 | 128 | | 20090326 |
| VM28-235 | 20 | <i>G. ruber</i> | 250-355 | 10 | 0.91 | -1.59 | 149 | | 20090326 |
| VM28-235 | 24 | <i>G. ruber</i> | 250-355 | 10 | 1.08 | -1.20 | 132 | | 20090326 |
| VM28-235 | 28 | <i>G. ruber</i> | 250-355 | 10 | 1.12 | -1.38 | 130 | | 20090326 |
| VM28-235 | 31 | <i>G. ruber</i> | 250-355 | 10 | 1.27 | -1.09 | 130 | LGM | 20090326 |
| VM28-235 | 36 | <i>G. ruber</i> | 250-355 | 10 | 1.33 | -1.01 | 136 | | 20090326 |
| VM28-235 | 40 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -1.18 | 131 | | 20090326 |
| VM28-235 | 45 | <i>G. ruber</i> | 250-355 | 10 | 1.39 | -1.34 | 145 | | 20090326 |
| VM28-235 | 48 | <i>G. ruber</i> | 250-355 | 10 | 1.42 | -1.32 | 132 | | 20090326 |
| VM28-235 | 52 | <i>G. ruber</i> | 250-355 | 10 | 1.52 | -1.42 | 136 | | 20090326 |
| VM28-235 | 56 | <i>G. ruber</i> | 250-355 | 10 | 1.41 | -1.45 | 131 | | 20090326 |
| VM28-235 | 60 | <i>G. ruber</i> | 250-355 | 10 | 1.34 | -1.47 | 158 | | 20090326 |

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| VM28-235 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.26 | -0.30 | 47 | 20110620 |
| VM28-235 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.60 | -0.09 | 37 | 20110620 |
| VM28-235 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.47 | 0.34 | 51 | 20110620 |
| VM28-235 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.99 | -0.31 | 39 | 20111122 |
| VM28-235 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.77 | 0.32 | 33 | 20111122 |
| VM28-235 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.58 | -0.40 | 38 | 20111122 |
| VM28-235 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.16 | 0.01 | 38 | 20111122 |
| VM28-235 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.78 | -0.82 | 24 | 20111122 |
| VM28-232TW | 6 | <i>G. ruber</i> | 250-355 | 10 | 1.27 | -2.08 | 152 | 20100409 |
| VM28-232TW | 4 | <i>G. ruber</i> | 250-355 | 10 | 1.40 | -2.20 | 147 | 20100409 |
| VM28-232 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | 0.03 | 109 | 20090226 |
| VM28-232 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | 0.02 | 157 | 20090226 |
| VM28-232 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | -0.16 | 109 | 20090226 |
| VM28-232 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -0.21 | 118 | 20090226 |
| VM28-232 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | 0.12 | 157 | 20090226 |
| VM28-232 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | 0.37 | 144 | 20090226 |

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| VM28-232 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 1.54 | 120 | 20090226 |
| VM28-232 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | -0.97 | 149 | 20090226 |
| VM28-232 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | 0.34 | 131 | 20090226 |
| VM28-232 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | -0.29 | 125 | 20090226 |
| VM28-232 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | -1.13 | 155 | 20090226 |
| VM28-232 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.54 | 1.00 | 136 | 20090226 |
| VM28-232 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | -0.10 | 148 | 20090226 |
| VM28-232 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | -0.72 | 121 | 20090226 |
| VM28-232 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.86 | 155 | 20090226 |
| VM28-232 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.58 | -0.45 | 124 | 20090226 |
| VM28-232 | 60 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | -0.96 | 134 | 20090305 |
| VM28-232 | 60 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | 0.29 | 120 | 20090305 |
| VM28-232 | 60 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | -1.03 | 122 | 20090305 |
| VM28-232 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | -0.52 | 144 | 20090305 |
| VM28-232 | 56 | <i>G. tumida</i> | 425-500 | 1 | 1.23 | -0.46 | 85 | 20090305 |
| VM28-232 | 56 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | -0.88 | 106 | 20090305 |

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| VM28-232 | 52 | <i>G. tumida</i> | 425-500 | 1 | 1.78 | -1.25 | 115 | 20090305 |
| VM28-232 | 52 | <i>G. tumida</i> | 425-500 | 1 | 1.25 | 0.75 | 136 | 20090305 |
| VM28-232 | 52 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | -0.38 | 106 | 20090305 |
| VM28-232 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | -0.04 | 74 | 20090305 |
| VM28-232 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.50 | -0.65 | 92 | 20090305 |
| VM28-232 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -0.82 | 149 | 20090305 |
| VM28-232 | 44 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | 0.23 | 138 | 20090305 |
| VM28-232 | 44 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | -0.40 | 101 | 20090305 |
| VM28-232 | 44 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | -1.35 | 95 | 20090305 |
| VM28-232 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | -0.40 | 159 | 20090305 |
| VM28-232 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | -0.29 | 131 | 20090305 |
| VM28-232 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.25 | -0.75 | 160 | 20090305 |
| VM28-232 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -0.22 | 130 | 20090305 |
| VM28-232 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | -0.52 | 129 | 20090305 |
| VM28-232 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | -0.44 | 101 | 20090305 |
| VM28-232 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | 0.54 | 107 | 20090305 |

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| VM28-232 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.00 | 149 | 20090305 |
| VM28-232 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | -0.07 | 125 | 20090305 |
| VM28-232 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | 0.05 | 135 | 20090305 |
| VM28-232 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -0.59 | 142 | 20090305 |
| VM28-232 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.09 | 158 | 20090305 |
| VM28-232 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | -0.07 | 124 | 20090305 |
| VM28-232 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.29 | 0.22 | 132 | 20090320 |
| VM28-232 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | 0.44 | 146 | 20090320 |
| VM28-232 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | 0.52 | 102 | 20090320 |
| VM28-232 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 0.04 | 93 | 20090320 |
| VM28-232 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | 0.08 | 163 | 20090320 |
| VM28-232 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | 1.70 | 92 | 20090320 |
| VM28-232 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | 0.21 | 103 | 20090320 |
| VM28-232 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.30 | 0.24 | 129 | 20090320 |
| VM28-232 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.59 | -0.85 | 157 | 20090326 |
| VM28-232 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.53 | -1.44 | 102 | 20090326 |

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| VM28-232 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | 0.18 | 142 | 20090326 |
| VM28-232 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | -0.70 | 168 | 20090326 |
| VM28-232 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -1.09 | 120 | 20090326 |
| VM28-232 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | -0.89 | 141 | 20090326 |
| VM28-232 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -1.01 | 108 | 20090326 |
| VM28-232 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | -1.15 | 136 | 20090326 |
| VM28-232 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | -1.10 | 155 | 20090326 |
| VM28-232 | 2 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -1.01 | 162 | 20100424 |
| VM28-232 | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | -1.64 | 108 | 20100424 |
| VM28-232 | 2 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | -1.21 | 153 | 20100424 |
| VM28-232 | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | -0.90 | 138 | 20100424 |
| VM28-232 | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | -1.43 | 134 | 20100424 |
| VM28-232 | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | -1.13 | 141 | 20100424 |
| VM28-232 | 2 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | -1.23 | 162 | 20100424 |
| VM28-232 | 60 | <i>G. ruber</i> | 250-355 | 10 | 1.10 | -1.54 | 122 | 20090226 |
| VM28-232 | 56 | <i>G. ruber</i> | 250-355 | 10 | 1.15 | -1.45 | 149 | 20090226 |

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| VM28-232 | 52 | <i>G. ruber</i> | 250-355 | 10 | 0.70 | -1.56 | 115 | | 20090226 |
| VM28-232 | 44 | <i>G. ruber</i> | 250-355 | 10 | 0.89 | -1.60 | 113 | | 20090226 |
| VM28-232 | 40 | <i>G. ruber</i> | 250-355 | 10 | 1.15 | -1.89 | 131 | | 20090226 |
| VM28-232 | 36 | <i>G. ruber</i> | 250-355 | 10 | 1.23 | -1.63 | 147 | | 20090226 |
| VM28-232 | 32 | <i>G. ruber</i> | 250-355 | 10 | 1.20 | -1.70 | 131 | | 20090226 |
| VM28-232 | 28 | <i>G. ruber</i> | 250-355 | 10 | 1.28 | -1.59 | 132 | | 20090226 |
| VM28-232 | 20 | <i>G. ruber</i> | 250-355 | 10 | 1.38 | -1.39 | 126 | | 20090226 |
| VM28-232 | 16 | <i>G. ruber</i> | 250-355 | 10 | 1.40 | -1.32 | 97 | | 20090226 |
| VM28-232 | 12 | <i>G. ruber</i> | 250-355 | 10 | 1.32 | -1.79 | 121 | | 20090226 |
| VM28-232 | 8 | <i>G. ruber</i> | 250-355 | 10 | 1.21 | -1.63 | 117 | | 20090226 |
| VM28-232 | 4 | <i>G. ruber</i> | 250-355 | 10 | 1.04 | -1.89 | 126 | | 20090226 |
| VM28-232 | 0 | <i>G. ruber</i> | 250-355 | 10 | 1.37 | -2.32 | 140 | | 20090226 |
| VM28-233 | 1 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.74 | 131 | LH | 20090322 |
| VM28-233 | 1 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -1.17 | 154 | LH | 20090322 |
| VM28-233 | 1 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | -0.99 | 155 | LH | 20090322 |
| VM28-233 | 1 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | -0.99 | 142 | LH | 20090322 |

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|----------|----|------------------|---------|---|------|-------|-----|-----|----------|
| VM28-233 | 1 | <i>G. tumida</i> | 425-500 | 1 | 1.76 | -1.06 | 128 | LH | 20090322 |
| VM28-233 | 1 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | -1.19 | 139 | LH | 20090322 |
| VM28-233 | 1 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | -1.22 | 93 | LH | 20090322 |
| VM28-233 | 1 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | -0.60 | 124 | LH | 20090322 |
| VM28-233 | 1 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -1.01 | 128 | LH | 20090322 |
| VM28-233 | 1 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | -0.84 | 136 | LH | 20090322 |
| VM28-233 | 1 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -0.65 | 170 | LH | 20090322 |
| VM28-233 | 1 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -0.87 | 110 | LH | 20090322 |
| VM28-233 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | 0.87 | 135 | LGM | 20090322 |
| VM28-233 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.25 | 0.43 | 131 | LGM | 20090322 |
| VM28-233 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | 0.19 | 123 | LGM | 20090322 |
| VM28-233 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | 0.30 | 116 | LGM | 20090322 |
| VM28-233 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.37 | 149 | LGM | 20090322 |
| VM28-233 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.25 | 0.90 | 135 | LGM | 20090322 |
| VM28-233 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | 0.21 | 126 | LGM | 20090322 |
| VM28-233 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | 0.81 | 141 | LGM | 20090322 |

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| VM28-233 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | 0.74 | 122 | LGM | 20090322 |
| VM28-233 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | 1.17 | 117 | LGM | 20090322 |
| VM28-233 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | 0.14 | 131 | LGM | 20090322 |
| VM28-233 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | 1.78 | 108 | LGM | 20090322 |
| VM28-233 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -1.43 | 155 | LH | 20100614 |
| VM28-233 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | -0.95 | 159 | LH | 20100614 |
| VM28-233 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | -1.25 | 146 | LH | 20100614 |
| VM28-233 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | -0.55 | 131 | LH | 20100614 |
| VM28-233 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | 0.46 | 119 | | 20100614 |
| VM28-233 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.57 | -1.72 | 129 | | 20100614 |
| VM28-233 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -0.92 | 128 | | 20100614 |
| VM28-233 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -1.57 | 143 | | 20100614 |
| VM28-233 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | -1.12 | 178 | | 20100614 |
| VM28-233 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.56 | -0.04 | 145 | | 20100614 |
| VM28-233 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -0.88 | 130 | | 20100614 |
| VM28-233 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | -1.09 | 175 | | 20100614 |

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| VM28-233 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | -0.31 | 127 | | 20100614 |
| VM28-233 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | -0.41 | 136 | | 20100614 |
| VM28-233 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.60 | -0.28 | 108 | | 20100614 |
| VM28-233 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | -0.97 | 107 | | 20100614 |
| VM28-233 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | 0.62 | 123 | | 20100614 |
| VM28-233 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | -0.39 | 159 | | 20100614 |
| VM28-233 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 0.59 | 130 | | 20100614 |
| VM28-233 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | 0.03 | 111 | | 20100614 |
| VM28-233 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | 0.37 | 138 | | 20100614 |
| VM28-233 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -0.31 | 163 | LGM | 20100614 |
| VM28-233 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -0.35 | 127 | LGM | 20100614 |
| VM28-233 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.11 | 122 | LGM | 20100614 |
| VM28-233 | 32 | <i>G. tumida</i> | 355-425 | 1 | 1.93 | 1.01 | 66 | LGM | 20100928 |
| VM28-233 | 32 | <i>G. tumida</i> | 355-425 | 1 | 1.85 | 0.56 | 62 | LGM | 20100928 |
| VM28-233 | 32 | <i>G. tumida</i> | 355-425 | 1 | 2.21 | 0.06 | 73 | LGM | 20100928 |
| VM28-233 | 32 | <i>G. tumida</i> | 355-425 | 1 | 2.07 | 0.40 | 67 | LGM | 20100928 |

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|----------|----|------------------|---------|---|------|-------|-----|-----|----------|
| VM28-233 | 32 | <i>G. tumida</i> | 355-425 | 1 | 2.03 | -0.14 | 77 | LGM | 20100928 |
| VM28-233 | 32 | <i>G. tumida</i> | 355-425 | 1 | 2.18 | 0.06 | 96 | LGM | 20100928 |
| VM28-233 | 32 | <i>G. tumida</i> | 355-425 | 1 | 1.92 | 0.23 | 87 | LGM | 20100928 |
| VM28-233 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -0.60 | 154 | LH | 20110830 |
| VM28-233 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | -1.16 | 140 | LH | 20110830 |
| VM28-233 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -0.65 | 125 | LH | 20110830 |
| VM28-233 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | -1.18 | 100 | LH | 20110830 |
| VM28-233 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | -1.50 | 140 | LH | 20110830 |
| VM28-233 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -0.99 | 137 | LH | 20110830 |
| VM28-233 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | -1.24 | 135 | | 20110830 |
| VM28-233 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -1.09 | 146 | | 20110830 |
| VM28-233 | 12 | <i>G. tumida</i> | 355-425 | 1 | 2.11 | 0.63 | 91 | | 20110831 |
| VM28-233 | 16 | <i>G. tumida</i> | 355-425 | 1 | 1.87 | 1.08 | 71 | | 20110831 |
| VM28-233 | 16 | <i>G. tumida</i> | 355-425 | 1 | 1.88 | 0.35 | 90 | | 20110831 |
| VM28-233 | 16 | <i>G. tumida</i> | 355-425 | 1 | 2.28 | 0.12 | 91 | | 20110831 |
| VM28-233 | 16 | <i>G. tumida</i> | 355-425 | 1 | 2.38 | -0.30 | 90 | | 20110831 |

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|----------|----|------------------|---------|---|------|-------|-----|----------|
| VM28-233 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.63 | 1.01 | 101 | 20110831 |
| VM28-233 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | -1.21 | 104 | 20110831 |
| VM28-233 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -1.30 | 182 | 20110831 |
| VM28-233 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | 0.77 | 115 | 20110831 |
| VM28-233 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.59 | -0.02 | 107 | 20110831 |
| VM28-233 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | 0.10 | 151 | 20110831 |
| VM28-233 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | 0.71 | 142 | 20110831 |
| VM28-233 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | 0.56 | 140 | 20110831 |
| VM28-233 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | 0.24 | 154 | 20110831 |
| VM28-233 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -0.09 | 143 | 20110831 |
| VM28-233 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | -0.06 | 146 | 20110831 |
| VM28-233 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | 0.04 | 131 | 20110831 |
| VM28-233 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.28 | 0.15 | 119 | 20110831 |
| VM28-233 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.76 | 0.60 | 141 | 20110831 |
| VM28-233 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | 0.08 | 88 | 20110831 |
| VM28-233 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | 0.13 | 108 | 20110831 |

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|----------|----|------------------|---------|---|------|-------|-----|-----|----------|
| VM28-233 | 44 | <i>G. tumida</i> | 355-425 | 1 | 2.00 | 0.48 | 86 | | 20110902 |
| VM28-233 | 44 | <i>G. tumida</i> | 355-425 | 1 | 2.37 | -0.08 | 90 | | 20110902 |
| VM28-233 | 44 | <i>G. tumida</i> | 355-425 | 1 | 2.01 | 0.28 | 60 | | 20110902 |
| VM28-233 | 44 | <i>G. tumida</i> | 355-425 | 1 | 1.80 | -0.04 | 67 | | 20110902 |
| VM28-233 | 48 | <i>G. tumida</i> | 355-425 | 1 | 2.18 | -0.03 | 97 | | 20110902 |
| VM28-233 | 48 | <i>G. tumida</i> | 355-425 | 1 | 1.91 | 0.88 | 91 | | 20110902 |
| VM28-233 | 48 | <i>G. tumida</i> | 355-425 | 1 | 2.15 | 0.12 | 68 | | 20110902 |
| VM28-233 | 32 | <i>G. tumida</i> | 355-425 | 1 | 2.12 | 1.02 | 88 | LGM | 20110902 |
| VM28-233 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | 0.16 | 116 | | 20110902 |
| VM28-233 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | 0.18 | 102 | | 20110902 |
| VM28-233 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.27 | -0.43 | 150 | | 20110902 |
| VM28-233 | 52 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | -0.03 | 122 | | 20110902 |
| VM28-233 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | 0.36 | 125 | | 20110902 |
| VM28-233 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.28 | 0.01 | 158 | | 20110902 |
| VM28-233 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.66 | 137 | | 20110902 |
| VM28-233 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.39 | -0.27 | 131 | | 20110902 |

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| VM28-233 | 52 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | -0.19 | 94 | | 20110902 |
| VM28-233 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.94 | 126 | | 20110902 |
| VM28-233 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.36 | 0.05 | 110 | | 20110902 |
| VM28-233 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.39 | -0.27 | 104 | | 20110902 |
| VM28-233 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.05 | 107 | | 20110902 |
| VM28-233 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | 0.14 | 90 | | 20110902 |
| VM28-233 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | 0.29 | 128 | | 20110902 |
| VM28-233 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | 0.84 | 128 | LGM | 20110902 |
| VM28-233 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -0.10 | 122 | LGM | 20110902 |
| VM28-233 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.57 | 117 | LGM | 20110902 |
| VM28-233 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | 0.39 | 112 | LGM | 20110902 |
| VM28-233 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -0.18 | 105 | LGM | 20110902 |
| VM28-233 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | 0.03 | 134 | LGM | 20110902 |
| VM28-233 | 48 | <i>G. tumida</i> | >500 | 1 | 2.12 | 0.03 | 176 | | 20110902 |
| VM28-233 | 48 | <i>G. tumida</i> | >500 | 1 | 1.89 | 0.41 | 147 | | 20110902 |
| VM28-233 | 28 | <i>G. tumida</i> | 355-425 | 1 | 2.28 | 0.28 | 67 | | 20110906 |

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| VM28-233 | 28 | <i>G. tumida</i> | 355-425 | 1 | 2.30 | -0.68 | 76 | | 20110906 |
| VM28-233 | 44 | <i>G. tumida</i> | 355-425 | 1 | 2.09 | -0.06 | 97 | | 20110906 |
| VM28-233 | 44 | <i>G. tumida</i> | 355-425 | 1 | 2.26 | -0.06 | 89 | | 20110906 |
| VM28-233 | 44 | <i>G. tumida</i> | 355-425 | 1 | 2.27 | -0.03 | 96 | | 20110906 |
| VM28-233 | 44 | <i>G. tumida</i> | 355-425 | 1 | 1.86 | -0.32 | 71 | | 20110906 |
| VM28-233 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | 0.38 | 131 | | 20110906 |
| VM28-233 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | 0.07 | 130 | | 20110906 |
| VM28-233 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | 0.04 | 164 | LGM | 20110906 |
| VM28-233 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | -0.35 | 160 | LGM | 20110906 |
| VM28-233 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.32 | 0.24 | 111 | LGM | 20110906 |
| VM28-233 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | -0.17 | 135 | LGM | 20110906 |
| VM28-233 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | 0.44 | 123 | LGM | 20110906 |
| VM28-233 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | 0.15 | 102 | LGM | 20110906 |
| VM28-233 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | -0.33 | 110 | | 20110906 |
| VM28-233 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -0.04 | 155 | | 20110906 |
| VM28-233 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | 0.30 | 151 | | 20110906 |

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| VM28-233 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | 0.40 | 74 | | 20110906 |
| VM28-233 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | -0.73 | 73 | | 20110906 |
| VM28-233 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.27 | -0.24 | 128 | | 20110906 |
| VM28-233 | 140 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | -0.55 | 102 | MIS 5e | 20120502 |
| VM28-233 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | -0.91 | 114 | MIS 5e | 20120502 |
| VM28-233 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | -0.84 | 153 | MIS 5e | 20120502 |
| VM28-233 | 140 | <i>G. tumida</i> | 425-500 | 1 | 2.26 | -1.01 | 143 | MIS 5e | 20120502 |
| VM28-233 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -0.53 | 120 | MIS 5e | 20120502 |
| VM28-233 | 144 | <i>G. tumida</i> | 425-500 | 1 | 1.66 | -0.83 | 113 | MIS 5e | 20120502 |
| VM28-233 | 144 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | -1.23 | 122 | MIS 5e | 20120502 |
| VM28-233 | 144 | <i>G. tumida</i> | 425-500 | 1 | 1.44 | -1.02 | 110 | MIS 5e | 20120502 |
| VM28-233 | 144 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | -0.57 | 154 | MIS 5e | 20120502 |
| VM28-233 | 144 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.99 | 148 | MIS 5e | 20120502 |
| VM28-233 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | -0.98 | 127 | MIS 5e | 20120503 |
| VM28-233 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -1.15 | 157 | MIS 5e | 20120503 |
| VM28-233 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -0.59 | 148 | MIS 5e | 20120503 |

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| VM28-233 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.57 | -1.17 | 135 | MIS 5e | 20120503 |
| VM28-233 | 148 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | -0.66 | 132 | MIS 5e | 20120503 |
| VM28-233 | 152 | <i>G. tumida</i> | 425-500 | 1 | 1.61 | -0.60 | 125 | | 20120503 |
| VM28-233 | 152 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -0.57 | 108 | | 20120503 |
| VM28-233 | 152 | <i>G. tumida</i> | 425-500 | 1 | 2.40 | -1.18 | 165 | | 20120503 |
| VM28-233 | 152 | <i>G. tumida</i> | 425-500 | 1 | 1.61 | -1.11 | 143 | | 20120503 |
| VM28-233 | 152 | <i>G. tumida</i> | 425-500 | 1 | 1.60 | -0.48 | 123 | | 20120503 |
| VM28-233 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | 0.50 | 118 | | 20120503 |
| VM28-233 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | -0.66 | 121 | | 20120503 |
| VM28-233 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -1.05 | 156 | | 20120503 |
| VM28-233 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | -1.08 | 157 | | 20120503 |
| VM28-233 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.60 | -1.34 | 135 | | 20120503 |
| VM28-233 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.29 | 0.01 | 127 | | 20120503 |
| VM28-233 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -1.02 | 116 | | 20120503 |
| VM28-233 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.26 | -1.29 | 161 | | 20120503 |
| VM28-233 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.51 | -1.20 | 147 | | 20120503 |

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| VM28-233 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | -1.48 | 149 | | 20120503 |
| VM28-233 | 164 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | -0.82 | 146 | | 20120503 |
| VM28-233 | 164 | <i>G. tumida</i> | 425-500 | 1 | 1.60 | -0.26 | 126 | | 20120503 |
| VM28-233 | 164 | <i>G. tumida</i> | 425-500 | 1 | 1.44 | -1.00 | 125 | | 20120503 |
| VM28-233 | 164 | <i>G. tumida</i> | 425-500 | 1 | 1.26 | -1.16 | 159 | | 20120503 |
| VM28-233 | 164 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -0.27 | 135 | | 20120503 |
| VM28-233 | 148 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.06 | 127 | MIS 5e | 20120504 |
| VM28-233 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.44 | 0.31 | 157 | MIS 5e | 20120504 |
| VM28-233 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -0.22 | 148 | MIS 5e | 20120504 |
| VM28-233 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.13 | -0.82 | 135 | MIS 5e | 20120504 |
| VM28-233 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.27 | 0.91 | 132 | MIS 5e | 20120504 |
| VM28-233 | 152 | <i>G. tumida</i> | 425-500 | 1 | 1.57 | -0.17 | 125 | | 20120504 |
| VM28-233 | 152 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -0.24 | 108 | | 20120504 |
| VM28-233 | 152 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | 1.01 | 165 | | 20120504 |
| VM28-233 | 152 | <i>G. tumida</i> | 425-500 | 1 | 1.42 | 0.41 | 143 | | 20120504 |
| VM28-233 | 152 | <i>G. tumida</i> | 425-500 | 1 | 1.65 | -0.18 | 123 | | 20120504 |

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| VM28-233 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.23 | 0.95 | 118 | 20120504 |
| VM28-233 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.55 | 0.39 | 121 | 20120504 |
| VM28-233 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | 0.64 | 156 | 20120504 |
| VM28-233 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.55 | 0.70 | 157 | 20120504 |
| VM28-233 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.21 | -0.20 | 135 | 20120504 |
| VM28-233 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | 0.58 | 127 | 20120504 |
| VM28-233 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | 0.66 | 116 | 20120504 |
| VM28-233 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | 0.44 | 161 | 20120504 |
| VM28-233 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.26 | -1.35 | 147 | 20120504 |
| VM28-233 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | 0.24 | 149 | 20120504 |
| VM28-233 | 164 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | -0.06 | 146 | 20120504 |
| VM28-233 | 164 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | 0.01 | 126 | 20120504 |
| VM28-233 | 164 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | 0.29 | 125 | 20120504 |
| VM28-233 | 164 | <i>G. tumida</i> | 425-500 | 1 | 1.76 | -0.10 | 159 | 20120504 |
| VM28-233 | 164 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | 0.05 | 135 | 20120504 |
| VM28-233 | 188 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | 0.39 | 128 | MIS 6 20120504 |

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| VM28-233 | 188 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | -0.31 | 165 | MIS 6 | 20120504 |
| VM28-233 | 188 | <i>G. tumida</i> | 425-500 | 1 | 1.59 | 0.36 | 155 | MIS 6 | 20120504 |
| VM28-233 | 188 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -0.25 | 130 | MIS 6 | 20120504 |
| VM28-233 | 188 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | -0.19 | 113 | MIS 6 | 20120504 |
| VM28-233 | 192 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | -0.19 | 125 | MIS 6 | 20120504 |
| VM28-233 | 192 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | 0.03 | 118 | MIS 6 | 20120504 |
| VM28-233 | 192 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | 0.13 | 139 | MIS 6 | 20120504 |
| VM28-233 | 192 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | -0.31 | 135 | MIS 6 | 20120504 |
| VM28-233 | 192 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | -0.07 | 130 | MIS 6 | 20120504 |
| VM28-233 | 12 | <i>G. ruber</i> | 250-355 | 10 | 1.44 | -2.04 | 133 | | 20090312 |
| VM28-233 | 8 | <i>G. ruber</i> | 250-355 | 10 | 1.48 | -2.30 | 150 | | 20090312 |
| VM28-233 | 4 | <i>G. ruber</i> | 250-355 | 10 | 1.44 | -2.34 | 141 | LH | 20090312 |
| VM28-233 | 1 | <i>G. ruber</i> | 250-355 | 10 | 1.44 | -2.47 | 139 | LH | 20090312 |
| VM28-233 | 16 | <i>G. ruber</i> | 250-355 | 10 | 0.85 | -1.78 | 118 | | 20090320 |
| VM28-233 | 20 | <i>G. ruber</i> | 250-355 | 10 | 1.04 | -2.05 | 126 | | 20090320 |
| VM28-233 | 24 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -1.33 | 158 | | 20090320 |

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| VM28-233 | 28 | <i>G. ruber</i> | 250-355 | 10 | 1.60 | -1.48 | 149 | | 20090320 |
| VM28-233 | 32 | <i>G. ruber</i> | 250-355 | 10 | 1.40 | -0.88 | 114 | LGM | 20090320 |
| VM28-233 | 36 | <i>G. ruber</i> | 250-355 | 10 | 1.42 | -1.47 | 141 | LGM | 20090320 |
| VM28-233 | 40 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -1.12 | 112 | | 20090320 |
| VM28-233 | 44 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -1.09 | 121 | | 20090320 |
| VM28-233 | 48 | <i>G. ruber</i> | 250-355 | 10 | 1.15 | -1.14 | 120 | | 20090320 |
| VM28-233 | 52 | <i>G. ruber</i> | 250-355 | 10 | 1.50 | -1.28 | 127 | | 20090320 |
| VM28-233 | 56 | <i>G. ruber</i> | 250-355 | 10 | 1.34 | -1.46 | 115 | | 20090320 |
| VM28-233 | 60 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -1.47 | 106 | | 20090320 |
| VM28-233 | 64 | <i>G. ruber</i> | 250-355 | 10 | 1.32 | -1.63 | 135 | | 20110130 |
| VM28-233 | 68 | <i>G. ruber</i> | 250-355 | 10 | 1.42 | -1.55 | 146 | | 20110130 |
| VM28-233 | 72 | <i>G. ruber</i> | 250-355 | 10 | 1.20 | -1.57 | 135 | | 20110130 |
| VM28-233 | 76 | <i>G. ruber</i> | 250-355 | 10 | 1.38 | -1.80 | 133 | | 20110130 |
| VM28-233 | 80 | <i>G. ruber</i> | 250-355 | 10 | 1.12 | -1.77 | 141 | | 20110130 |
| VM28-233 | 84 | <i>G. ruber</i> | 250-355 | 10 | 1.35 | -1.78 | 161 | | 20110130 |
| VM28-233 | 88 | <i>G. ruber</i> | 250-355 | 10 | 1.53 | -1.91 | 148 | | 20110130 |

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|----------|-----|-----------------|---------|----|------|-------|-----|----------|
| VM28-233 | 92 | <i>G. ruber</i> | 250-355 | 10 | 1.31 | -1.67 | 157 | 20110130 |
| VM28-233 | 160 | <i>G. ruber</i> | 250-355 | 10 | 1.31 | -2.37 | 134 | 20110516 |
| VM28-233 | 160 | <i>G. ruber</i> | 250-355 | 10 | 1.36 | -2.29 | 120 | 20110516 |
| VM28-233 | 164 | <i>G. ruber</i> | 250-355 | 10 | 0.98 | -2.00 | 117 | 20110516 |
| VM28-233 | 164 | <i>G. ruber</i> | 250-355 | 10 | 0.72 | -2.27 | 115 | 20110516 |
| VM28-233 | 168 | <i>G. ruber</i> | 250-355 | 10 | 0.90 | -1.64 | 133 | 20110516 |
| VM28-233 | 172 | <i>G. ruber</i> | 250-355 | 10 | 1.02 | -1.80 | 120 | 20110516 |
| VM28-233 | 172 | <i>G. ruber</i> | 250-355 | 10 | 0.70 | -1.80 | 121 | 20110516 |
| VM28-233 | 176 | <i>G. ruber</i> | 250-355 | 10 | 0.69 | -1.25 | 117 | 20110516 |
| VM28-233 | 176 | <i>G. ruber</i> | 250-355 | 10 | 0.67 | -1.33 | 129 | 20110516 |
| VM28-233 | 180 | <i>G. ruber</i> | 250-355 | 10 | 0.89 | -1.39 | 121 | 20110516 |
| VM28-233 | 184 | <i>G. ruber</i> | 250-355 | 10 | 0.98 | -1.14 | 118 | 20110516 |
| VM28-233 | 184 | <i>G. ruber</i> | 250-355 | 10 | 0.83 | -1.11 | 125 | 20110516 |
| VM28-233 | 188 | <i>G. ruber</i> | 250-355 | 10 | 1.06 | -1.13 | 138 | 20110516 |
| VM28-233 | 188 | <i>G. ruber</i> | 250-355 | 10 | 0.89 | -1.07 | 124 | 20110516 |
| VM28-233 | 192 | <i>G. ruber</i> | 250-355 | 10 | 0.96 | -1.17 | 118 | 20110516 |

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|----------|-----|-----------------|---------|----|------|-------|-----|----------|
| VM28-233 | 192 | <i>G. ruber</i> | 250-355 | 10 | 0.98 | -1.06 | 116 | 20110516 |
| VM28-233 | 96 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -1.69 | 122 | 20110907 |
| VM28-233 | 96 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -1.72 | 115 | 20110907 |
| VM28-233 | 100 | <i>G. ruber</i> | 250-355 | 10 | 0.94 | -1.65 | 119 | 20110907 |
| VM28-233 | 100 | <i>G. ruber</i> | 250-355 | 10 | 0.90 | -1.69 | 106 | 20110907 |
| VM28-233 | 104 | <i>G. ruber</i> | 250-355 | 10 | 1.23 | -1.46 | 133 | 20110907 |
| VM28-233 | 104 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -1.61 | 116 | 20110907 |
| VM28-233 | 108 | <i>G. ruber</i> | 250-355 | 10 | 1.09 | -1.50 | 112 | 20110907 |
| VM28-233 | 108 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -1.52 | 97 | 20110907 |
| VM28-233 | 112 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -1.62 | 120 | 20110907 |
| VM28-233 | 112 | <i>G. ruber</i> | 250-355 | 10 | 1.14 | -1.60 | 96 | 20110907 |
| VM28-233 | 116 | <i>G. ruber</i> | 250-355 | 10 | 1.39 | -1.91 | 102 | 20110908 |
| VM28-233 | 116 | <i>G. ruber</i> | 250-355 | 10 | 1.31 | -2.05 | 111 | 20110908 |
| VM28-233 | 120 | <i>G. ruber</i> | 250-355 | 10 | 1.41 | -2.08 | 106 | 20110908 |
| VM28-233 | 120 | <i>G. ruber</i> | 250-355 | 10 | 1.41 | -1.99 | 118 | 20110908 |
| VM28-233 | 124 | <i>G. ruber</i> | 250-355 | 10 | 1.42 | -2.08 | 118 | 20110908 |

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| VM28-233 | 124 | <i>G. ruber</i> | 250-355 | 10 | 1.30 | -2.24 | 100 | 20110908 |
| VM28-233 | 128 | <i>G. ruber</i> | 250-355 | 10 | 1.23 | -2.21 | 104 | 20110908 |
| VM28-233 | 128 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -2.12 | 106 | 20110908 |
| VM28-233 | 132 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -2.00 | 106 | 20110908 |
| VM28-233 | 132 | <i>G. ruber</i> | 250-355 | 10 | 1.38 | -1.95 | 113 | 20110908 |
| VM28-233 | 136 | <i>G. ruber</i> | 250-355 | 10 | 1.34 | -2.07 | 112 | 20110908 |
| VM28-233 | 136 | <i>G. ruber</i> | 250-355 | 10 | 1.40 | -2.09 | 112 | 20110908 |
| VM28-233 | 140 | <i>G. ruber</i> | 250-355 | 10 | 1.09 | -2.12 | 123 | 20110908 |
| VM28-233 | 140 | <i>G. ruber</i> | 250-355 | 10 | 1.32 | -2.19 | 112 | 20110908 |
| VM28-233 | 144 | <i>G. ruber</i> | 250-355 | 10 | 1.30 | -2.05 | 118 | 20110908 |
| VM28-233 | 144 | <i>G. ruber</i> | 250-355 | 10 | 1.37 | -2.14 | 128 | 20110908 |
| VM28-233 | 148 | <i>G. ruber</i> | 250-355 | 10 | 1.23 | -2.14 | 118 | 20110908 |
| VM28-233 | 148 | <i>G. ruber</i> | 250-355 | 10 | 1.37 | -2.10 | 104 | 20110908 |
| VM28-233 | 152 | <i>G. ruber</i> | 250-355 | 10 | 1.03 | -1.95 | 107 | 20110908 |
| VM28-233 | 152 | <i>G. ruber</i> | 250-355 | 10 | 1.08 | -2.16 | 107 | 20110908 |
| VM28-233 | 156 | <i>G. ruber</i> | 250-355 | 10 | 0.83 | -2.38 | 109 | 20110908 |

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|----------|-----|---------------------------|---------|----|------|-------|-----|----------|
| VM28-233 | 156 | <i>G. ruber</i> | 250-355 | 10 | 1.12 | -2.17 | 100 | 20110908 |
| VM28-233 | 32 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.68 | 0.59 | 51 | 20110620 |
| VM28-233 | 32 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.24 | 0.31 | 35 | 20110620 |
| VM28-233 | 32 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.40 | -0.02 | 31 | 20110620 |
| VM28-233 | 36 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.06 | -0.23 | 48 | 20110620 |
| VM28-233 | 36 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.12 | -0.06 | 41 | 20110620 |
| VM28-233 | 36 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.03 | -0.06 | 40 | 20110620 |
| VM28-233 | 1 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.99 | -1.68 | 39 | 20110627 |
| VM28-233 | 1 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.12 | -1.19 | 55 | 20110627 |
| VM28-233 | 1 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.39 | -1.52 | 61 | 20110627 |
| VM28-233 | 1 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.16 | -1.80 | 41 | 20110627 |
| VM28-233 | 1 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.27 | -1.29 | 56 | 20110627 |
| VM28-233 | 1 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.16 | -1.39 | 37 | 20110628 |
| VM28-233 | 1 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.03 | -0.36 | 50 | 20110628 |
| VM28-233 | 1 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.13 | -1.31 | 46 | 20110628 |
| VM28-233 | 1 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.99 | -0.84 | 61 | 20110628 |

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|----------|----|---------------------------|---------|---|------|-------|-----|----|----------|
| VM28-233 | 32 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.25 | 0.06 | 43 | | 20111121 |
| VM28-233 | 32 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.09 | 0.01 | 43 | | 20111121 |
| VM28-233 | 36 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.04 | 0.23 | 31 | | 20111121 |
| VM28-233 | 36 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.42 | 0.05 | 42 | | 20111121 |
| VM28-234 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.60 | -0.96 | 124 | LH | 20090212 |
| VM28-234 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.44 | -1.75 | 83 | LH | 20090212 |
| VM28-234 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -1.11 | 98 | LH | 20090212 |
| VM28-234 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | -0.99 | 141 | LH | 20101018 |
| VM28-234 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -0.57 | 120 | LH | 20101018 |
| VM28-234 | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.90 | 95 | LH | 20100717 |
| VM28-234 | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | -1.37 | 167 | LH | 20100717 |
| VM28-234 | 2 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -0.94 | 124 | LH | 20100717 |
| VM28-234 | 2 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -0.84 | 144 | LH | 20101018 |
| VM28-234 | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.78 | -1.06 | 135 | LH | 20101018 |
| VM28-234 | 2 | <i>G. tumida</i> | 425-500 | 1 | 2.27 | -1.17 | 117 | LH | 20101018 |
| VM28-234 | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | -0.76 | 148 | LH | 20110819 |

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| VM28-234 | 2 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | -1.12 | 145 | LH | 20110819 |
| VM28-234 | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | -0.95 | 143 | LH | 20110819 |
| VM28-234 | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | -1.07 | 145 | LH | 20110819 |
| VM28-234 | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.66 | -1.15 | 143 | LH | 20110819 |
| VM28-234 | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.50 | -0.75 | 91 | LH | 20110819 |
| VM28-234 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | -0.74 | 127 | LH | 20090212 |
| VM28-234 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -0.86 | 136 | LH | 20090212 |
| VM28-234 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.52 | -0.94 | 124 | LH | 20090212 |
| VM28-234 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | -1.04 | 110 | LH | 20101018 |
| VM28-234 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | -1.64 | 111 | LH | 20101018 |
| VM28-234 | 6 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.88 | 129 | LH | 20100717 |
| VM28-234 | 6 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -1.38 | 124 | LH | 20100717 |
| VM28-234 | 6 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | -0.73 | 149 | LH | 20100717 |
| VM28-234 | 6 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -0.86 | 111 | LH | 20101018 |
| VM28-234 | 6 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | -0.81 | 136 | LH | 20101018 |
| VM28-234 | 6 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | -1.18 | 123 | LH | 20101018 |

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| VM28-234 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -0.79 | 166 | LH | 20090212 |
| VM28-234 | 10 | <i>G. tumida</i> | 425-500 | 1 | 1.76 | -1.09 | 115 | LH | 20100717 |
| VM28-234 | 10 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | -1.59 | 145 | LH | 20100717 |
| VM28-234 | 10 | <i>G. tumida</i> | 425-500 | 1 | 1.61 | -1.41 | 121 | LH | 20100717 |
| VM28-234 | 10 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | -1.26 | 133 | LH | 20101018 |
| VM28-234 | 10 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | -1.00 | 134 | LH | 20101018 |
| VM28-234 | 10 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | -0.78 | 133 | LH | 20101018 |
| VM28-234 | 10 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | -0.57 | 140 | LH | 20110819 |
| VM28-234 | 10 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -0.82 | 122 | LH | 20110819 |
| VM28-234 | 10 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -1.48 | 148 | LH | 20110819 |
| VM28-234 | 10 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | -1.32 | 94 | LH | 20110819 |
| VM28-234 | 10 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -0.99 | 122 | LH | 20110819 |
| VM28-234 | 10 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -0.87 | 127 | LH | 20110819 |
| VM28-234 | 10 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | -1.07 | 159 | LH | 20110819 |
| VM28-234 | 10 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | -1.31 | 134 | LH | 20110819 |
| VM28-234 | 10 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | -0.86 | 117 | LH | 20110819 |

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| VM28-234 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | -0.22 | 143 | LH | 20090212 |
| VM28-234 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -1.18 | 113 | LH | 20090212 |
| VM28-234 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -1.38 | 142 | LH | 20090212 |
| VM28-234 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -1.29 | 123 | LH | 20101018 |
| VM28-234 | 14 | <i>G. tumida</i> | 425-500 | 1 | 2.38 | -1.45 | 135 | LH | 20100717 |
| VM28-234 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -1.28 | 127 | LH | 20090212 |
| VM28-234 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | -2.22 | 112 | LH | 20090212 |
| VM28-234 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.78 | -0.88 | 102 | LH | 20090212 |
| VM28-234 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -1.36 | 147 | LH | 20101018 |
| VM28-234 | 18 | <i>G. tumida</i> | 425-500 | 1 | 2.31 | -1.57 | 116 | | 20100717 |
| VM28-234 | 18 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | -1.07 | 149 | | 20100717 |
| VM28-234 | 18 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -1.17 | 135 | | 20100717 |
| VM28-234 | 18 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -1.45 | 116 | | 20101018 |
| VM28-234 | 18 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -1.02 | 166 | | 20101018 |
| VM28-234 | 18 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | -1.03 | 131 | | 20101018 |
| VM28-234 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -1.04 | 111 | | 20090212 |

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| VM28-234 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | -1.48 | 144 | 20090212 |
| VM28-234 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -1.08 | 123 | 20090212 |
| VM28-234 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -0.38 | 165 | 20101018 |
| VM28-234 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -1.24 | 150 | 20101018 |
| VM28-234 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | -1.00 | 106 | 20101018 |
| VM28-234 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | -1.21 | 157 | 20110819 |
| VM28-234 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | -1.31 | 179 | 20110819 |
| VM28-234 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -1.39 | 156 | 20110819 |
| VM28-234 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | -1.12 | 168 | 20110819 |
| VM28-234 | 22 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -1.32 | 134 | 20100717 |
| VM28-234 | 22 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -1.00 | 137 | 20100717 |
| VM28-234 | 22 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -1.13 | 160 | 20100717 |
| VM28-234 | 22 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -1.33 | 117 | 20101018 |
| VM28-234 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.40 | -1.61 | 143 | 20090212 |
| VM28-234 | 26 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -1.72 | 100 | 20100717 |
| VM28-234 | 26 | <i>G. tumida</i> | 425-500 | 1 | 1.76 | -1.17 | 173 | 20100717 |

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| VM28-234 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -0.57 | 124 | 20090212 |
| VM28-234 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.53 | -0.50 | 146 | 20090212 |
| VM28-234 | 30 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | -1.01 | 160 | 20100717 |
| VM28-234 | 30 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | -1.36 | 144 | 20100717 |
| VM28-234 | 30 | <i>G. tumida</i> | 425-500 | 1 | 1.63 | -0.97 | 167 | 20100717 |
| VM28-234 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -0.71 | 148 | 20090212 |
| VM28-234 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.94 | 144 | 20090212 |
| VM28-234 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.31 | -1.03 | 137 | 20090212 |
| VM28-234 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | -0.47 | 113 | 20090212 |
| VM28-234 | 38 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | -0.75 | 169 | 20100717 |
| VM28-234 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.24 | -0.80 | 87 | 20090213 |
| VM28-234 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.49 | -0.51 | 65 | 20090213 |
| VM28-234 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.32 | -0.82 | 78 | 20090213 |
| VM28-234 | 48 | <i>G. tumida</i> | 425-500 | 1 | 0.70 | -1.45 | 42 | 20090213 |
| VM28-234 | 50 | <i>G. tumida</i> | 425-500 | 1 | 1.66 | -0.52 | 134 | 20100717 |
| VM28-234 | 50 | <i>G. tumida</i> | 425-500 | 1 | 1.45 | -0.71 | 126 | 20100717 |

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| VM28-234 | 52 | <i>G. tumida</i> | 425-500 | 1 | 1.59 | -0.60 | 133 | 20090213 |
| VM28-234 | 52 | <i>G. tumida</i> | 425-500 | 1 | 1.40 | -0.30 | 96 | 20090217 |
| VM28-234 | 52 | <i>G. tumida</i> | 425-500 | 1 | 1.36 | -0.71 | 85 | 20090217 |
| VM28-234 | 56 | <i>G. tumida</i> | 425-500 | 1 | 1.52 | -0.20 | 95 | 20090217 |
| VM28-234 | 56 | <i>G. tumida</i> | 425-500 | 1 | 1.62 | -0.47 | 98 | 20090217 |
| VM28-234 | 56 | <i>G. tumida</i> | 425-500 | 1 | 1.50 | -0.30 | 81 | 20090217 |
| VM28-234 | 60 | <i>G. tumida</i> | 425-500 | 1 | 1.40 | 0.00 | 104 | 20090217 |
| VM28-234 | 60 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | -0.58 | 106 | 20090217 |
| VM28-234 | 64 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | -1.05 | 192 | 20110819 |
| VM28-234 | 78 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | 0.69 | 119 | 20100730 |
| VM28-234 | 86 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | 0.56 | 104 | 20100730 |
| VM28-234 | 92 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | 0.74 | 124 | 20100730 |
| VM28-234 | 92 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | 0.77 | 124 | 20100730 |
| VM28-234 | 92 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | -0.15 | 167 | 20100730 |
| VM28-234 | 92 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | 0.93 | 141 | 20110819 |
| VM28-234 | 92 | <i>G. tumida</i> | 425-500 | 1 | 1.51 | 1.10 | 104 | 20110819 |

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| VM28-234 | 94 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | 0.88 | 135 | 20100730 |
| VM28-234 | 96 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 0.78 | 124 | 20100730 |
| VM28-234 | 96 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | 0.78 | 148 | 20100730 |
| VM28-234 | 96 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | 0.15 | 135 | 20100730 |
| VM28-234 | 96 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.42 | 137 | 20110824 |
| VM28-234 | 98 | <i>G. tumida</i> | 425-500 | 1 | 1.78 | 0.31 | 117 | 20100730 |
| VM28-234 | 98 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.56 | 124 | 20100730 |
| VM28-234 | 100 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | 0.04 | 107 | 20091009 |
| VM28-234 | 100 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | 0.25 | 109 | 20091009 |
| VM28-234 | 100 | <i>G. tumida</i> | 425-500 | 1 | 2.26 | 0.97 | 109 | 20091009 |
| VM28-234 | 100 | <i>G. tumida</i> | 425-500 | 1 | 1.76 | 1.15 | 119 | 20091009 |
| VM28-234 | 104 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | -0.01 | 161 | 20100730 |
| VM28-234 | 106 | <i>G. tumida</i> | 425-500 | 1 | 2.23 | -0.03 | 131 | 20100730 |
| VM28-234 | 106 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 1.00 | 116 | 20100730 |
| VM28-234 | 106 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | 0.24 | 148 | 20100730 |
| VM28-234 | 108 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.40 | 126 | 20100730 |

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|----------|-----|------------------|---------|---|------|------|-----|-----|----------|
| VM28-234 | 108 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | 0.63 | 80 | | 20100730 |
| VM28-234 | 108 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.07 | 123 | | 20100730 |
| VM28-234 | 110 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | 0.35 | 116 | | 20100730 |
| VM28-234 | 110 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | 0.53 | 144 | | 20100730 |
| VM28-234 | 110 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | 1.12 | 102 | | 20100730 |
| VM28-234 | 112 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | 1.21 | 102 | | 20100730 |
| VM28-234 | 112 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.58 | 109 | | 20100730 |
| VM28-234 | 114 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | 0.66 | 127 | | 20100730 |
| VM28-234 | 114 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | 0.07 | 132 | | 20100731 |
| VM28-234 | 114 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.02 | 89 | | 20100731 |
| VM28-234 | 116 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | 0.97 | 105 | LGM | 20100731 |
| VM28-234 | 116 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | 0.15 | 103 | LGM | 20100731 |
| VM28-234 | 118 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | 0.82 | 94 | LGM | 20100731 |
| VM28-234 | 118 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | 0.74 | 123 | LGM | 20100731 |
| VM28-234 | 118 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.76 | 130 | LGM | 20100731 |
| VM28-234 | 120 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | 0.31 | 107 | LGM | 20091009 |

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|----------|-----|------------------|---------|---|------|-------|-----|-----|----------|
| VM28-234 | 120 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.59 | 131 | LGM | 20091009 |
| VM28-234 | 120 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | 0.67 | 135 | LGM | 20091009 |
| VM28-234 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.78 | 1.50 | 109 | LGM | 20091009 |
| VM28-234 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | 0.68 | 145 | LGM | 20091009 |
| VM28-234 | 120 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | 1.40 | 113 | LGM | 20110824 |
| VM28-234 | 122 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | -0.20 | 105 | LGM | 20100731 |
| VM28-234 | 122 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | 1.20 | 135 | LGM | 20100731 |
| VM28-234 | 122 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | 0.08 | 151 | LGM | 20100731 |
| VM28-234 | 124 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | 1.06 | 102 | LGM | 20100731 |
| VM28-234 | 124 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | 0.30 | 92 | LGM | 20100731 |
| VM28-234 | 124 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | -0.22 | 120 | LGM | 20100731 |
| VM28-234 | 128 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | 0.44 | 132 | LGM | 20100731 |
| VM28-234 | 136 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | -0.73 | 119 | LGM | 20100731 |
| VM28-234 | 146 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | -0.20 | 112 | LGM | 20100731 |
| VM28-234 | 146 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | 0.07 | 132 | LGM | 20100731 |
| VM28-234 | 146 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | 1.38 | 107 | LGM | 20100731 |

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|----------|-----|------------------|---------|---|------|-------|-----|-----|----------|
| VM28-234 | 146 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | 0.75 | 89 | LGM | 20110824 |
| VM28-234 | 146 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | 1.05 | 116 | LGM | 20110824 |
| VM28-234 | 146 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | 0.94 | 107 | LGM | 20110824 |
| VM28-234 | 146 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | 0.56 | 85 | LGM | 20110824 |
| VM28-234 | 146 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | 0.08 | 103 | LGM | 20110824 |
| VM28-234 | 148 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | 0.32 | 141 | LGM | 20100731 |
| VM28-234 | 150 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | 0.85 | 82 | LGM | 20100731 |
| VM28-234 | 150 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | 0.39 | 146 | LGM | 20100731 |
| VM28-234 | 150 | <i>G. tumida</i> | 425-500 | 1 | 2.42 | -0.03 | 135 | LGM | 20100731 |
| VM28-234 | 152 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | 1.10 | 98 | LGM | 20100731 |
| VM28-234 | 156 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | 0.03 | 107 | LGM | 20100731 |
| VM28-234 | 156 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | 1.03 | 158 | LGM | 20100731 |
| VM28-234 | 158 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | 0.27 | 100 | LGM | 20100731 |
| VM28-234 | 158 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | 0.81 | 103 | LGM | 20100731 |
| VM28-234 | 160 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.81 | 113 | LGM | 20091009 |
| VM28-234 | 160 | <i>G. tumida</i> | 425-500 | 1 | 2.41 | 0.08 | 120 | LGM | 20091009 |

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|----------|-----|------------------|---------|---|------|-------|-----|-----|----------|
| VM28-234 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | 0.32 | 133 | LGM | 20091009 |
| VM28-234 | 160 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.58 | 145 | LGM | 20091009 |
| VM28-234 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | 0.67 | 146 | LGM | 20091009 |
| VM28-234 | 160 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | 0.37 | 175 | LGM | 20110824 |
| VM28-234 | 160 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | 0.57 | 92 | LGM | 20110824 |
| VM28-234 | 162 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | 0.41 | 124 | LGM | 20100731 |
| VM28-234 | 162 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.04 | 111 | LGM | 20100731 |
| VM28-234 | 162 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | 0.44 | 96 | LGM | 20100731 |
| VM28-234 | 180 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | 0.65 | 102 | | 20100731 |
| VM28-234 | 180 | <i>G. tumida</i> | 425-500 | 1 | 1.58 | 1.37 | 100 | | 20100731 |
| VM28-234 | 180 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | 0.09 | 76 | | 20100731 |
| VM28-234 | 182 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | 0.68 | 151 | | 20100731 |
| VM28-234 | 186 | <i>G. tumida</i> | 425-500 | 1 | 2.72 | -0.14 | 141 | | 20100731 |
| VM28-234 | 186 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | 0.92 | 84 | | 20100731 |
| VM28-234 | 186 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | -0.07 | 123 | | 20100731 |
| VM28-234 | 188 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | 0.24 | 144 | | 20100731 |

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|----------|-----|------------------|---------|---|------|-------|-----|----------|
| VM28-234 | 188 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | -0.10 | 156 | 20100803 |
| VM28-234 | 188 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | 0.17 | 145 | 20100803 |
| VM28-234 | 190 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | 0.32 | 131 | 20100803 |
| VM28-234 | 190 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | 0.31 | 133 | 20100803 |
| VM28-234 | 190 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 0.87 | 103 | 20110824 |
| VM28-234 | 190 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | 0.18 | 90 | 20110824 |
| VM28-234 | 190 | <i>G. tumida</i> | 425-500 | 1 | 2.28 | 0.41 | 107 | 20110824 |
| VM28-234 | 190 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | 0.12 | 115 | 20110824 |
| VM28-234 | 190 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | -0.30 | 92 | 20110824 |
| VM28-234 | 190 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | 0.16 | 114 | 20110824 |
| VM28-234 | 190 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | 0.27 | 133 | 20110824 |
| VM28-234 | 192 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.28 | 115 | 20100803 |
| VM28-234 | 192 | <i>G. tumida</i> | 425-500 | 1 | 2.25 | -0.02 | 135 | 20100803 |
| VM28-234 | 192 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | 0.47 | 111 | 20100803 |
| VM28-234 | 192 | <i>G. tumida</i> | 425-500 | 1 | 2.48 | -0.24 | 112 | 20110824 |
| VM28-234 | 192 | <i>G. tumida</i> | 425-500 | 1 | 2.35 | -0.09 | 103 | 20110824 |

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| VM28-234 | 194 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | 0.01 | 82 | 20100803 |
| VM28-234 | 194 | <i>G. tumida</i> | 425-500 | 1 | 2.51 | -0.29 | 101 | 20100803 |
| VM28-234 | 196 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | 0.58 | 96 | 20100803 |
| VM28-234 | 196 | <i>G. tumida</i> | 425-500 | 1 | 2.42 | 0.13 | 117 | 20100803 |
| VM28-234 | 198 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | 0.03 | 109 | 20100803 |
| VM28-234 | 198 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | 0.12 | 138 | 20100803 |
| VM28-234 | 200 | <i>G. tumida</i> | 425-500 | 1 | 2.64 | 0.35 | 130 | 20100803 |
| VM28-234 | 200 | <i>G. tumida</i> | 425-500 | 1 | 1.54 | 0.32 | 148 | 20100803 |
| VM28-234 | 202 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.96 | 122 | 20100803 |
| VM28-234 | 202 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | 0.69 | 103 | 20100803 |
| VM28-234 | 210 | <i>G. tumida</i> | 425-500 | 1 | 2.32 | -0.13 | 126 | 20100803 |
| VM28-234 | 210 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | 0.41 | 134 | 20100803 |
| VM28-234 | 212 | <i>G. tumida</i> | 425-500 | 1 | 2.29 | -0.17 | 137 | 20100803 |
| VM28-234 | 218 | <i>G. tumida</i> | 425-500 | 1 | 2.27 | -0.33 | 124 | 20100803 |
| VM28-234 | 218 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | 0.18 | 146 | 20100803 |
| VM28-234 | 218 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | 0.35 | 129 | 20100803 |

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| VM28-234 | 220 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | 0.69 | 130 | 20100811 |
| VM28-234 | 220 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -0.09 | 123 | 20100811 |
| VM28-234 | 220 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | -0.06 | 132 | 20100811 |
| VM28-234 | 222 | <i>G. tumida</i> | 425-500 | 1 | 2.32 | 0.26 | 109 | 20100811 |
| VM28-234 | 222 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 0.49 | 98 | 20100811 |
| VM28-234 | 224 | <i>G. tumida</i> | 425-500 | 1 | 2.32 | -0.55 | 144 | 20100811 |
| VM28-234 | 224 | <i>G. tumida</i> | 425-500 | 1 | 2.28 | 0.04 | 118 | 20100811 |
| VM28-234 | 226 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -0.51 | 144 | 20100811 |
| VM28-234 | 226 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | -0.04 | 126 | 20100811 |
| VM28-234 | 226 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | -0.06 | 121 | 20100811 |
| VM28-234 | 228 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -0.15 | 104 | 20100811 |
| VM28-234 | 228 | <i>G. tumida</i> | 425-500 | 1 | 2.31 | 0.59 | 116 | 20100811 |
| VM28-234 | 228 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | 0.01 | 92 | 20100811 |
| VM28-234 | 230 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | 0.01 | 107 | 20100811 |
| VM28-234 | 230 | <i>G. tumida</i> | 425-500 | 1 | 2.27 | -0.12 | 107 | 20100811 |
| VM28-234 | 230 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -0.63 | 93 | 20100811 |

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| VM28-234 | 234 | <i>G. tumida</i> | 425-500 | 1 | 2.28 | -0.55 | 152 | 20100811 |
| VM28-234 | 234 | <i>G. tumida</i> | 425-500 | 1 | 2.23 | 0.33 | 123 | 20100811 |
| VM28-234 | 234 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | 0.17 | 124 | 20100811 |
| VM28-234 | 236 | <i>G. tumida</i> | 425-500 | 1 | 2.37 | 0.22 | 98 | 20100811 |
| VM28-234 | 242 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | -0.26 | 168 | 20100811 |
| VM28-234 | 246 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | 0.80 | 116 | 20100813 |
| VM28-234 | 246 | <i>G. tumida</i> | 425-500 | 1 | 2.28 | 0.30 | 118 | 20100813 |
| VM28-234 | 246 | <i>G. tumida</i> | 425-500 | 1 | 2.37 | -0.37 | 171 | 20100813 |
| VM28-234 | 248 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | -0.31 | 105 | 20100813 |
| VM28-234 | 248 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.06 | 136 | 20100813 |
| VM28-234 | 248 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | -0.41 | 149 | 20100813 |
| VM28-234 | 250 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | 0.24 | 127 | 20100813 |
| VM28-234 | 250 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | 0.04 | 115 | 20100813 |
| VM28-234 | 250 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | 0.09 | 117 | 20100813 |
| VM28-234 | 252 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | -0.39 | 97 | 20100813 |
| VM28-234 | 252 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | 0.42 | 95 | 20100813 |

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| VM28-234 | 252 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | 0.30 | 95 | 20100813 |
| VM28-234 | 254 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | -0.20 | 128 | 20100813 |
| VM28-234 | 254 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | 0.30 | 113 | 20100813 |
| VM28-234 | 254 | <i>G. tumida</i> | 425-500 | 1 | 2.41 | -0.21 | 138 | 20100813 |
| VM28-234 | 256 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | 0.35 | 89 | 20100813 |
| VM28-234 | 258 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.29 | 127 | 20100813 |
| VM28-234 | 260 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.24 | 156 | 20100813 |
| VM28-234 | 260 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | 0.76 | 111 | 20100813 |
| VM28-234 | 260 | <i>G. tumida</i> | 425-500 | 1 | 2.48 | -0.63 | 115 | 20100813 |
| VM28-234 | 262 | <i>G. tumida</i> | 425-500 | 1 | 2.26 | 0.23 | 112 | 20100813 |
| VM28-234 | 262 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | -0.29 | 106 | 20100813 |
| VM28-234 | 262 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | 0.00 | 101 | 20100813 |
| VM28-234 | 264 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -0.28 | 134 | 20100813 |
| VM28-234 | 264 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.06 | 130 | 20100821 |
| VM28-234 | 264 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | -0.34 | 104 | 20100821 |
| VM28-234 | 274 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -0.20 | 92 | 20100821 |

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| VM28-234 | 274 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.22 | 113 | 20100821 |
| VM28-234 | 274 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.09 | 164 | 20100821 |
| VM28-234 | 276 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | 0.89 | 115 | 20100821 |
| VM28-234 | 276 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | -0.18 | 125 | 20100821 |
| VM28-234 | 276 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | -0.19 | 141 | 20100821 |
| VM28-234 | 280 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -0.13 | 164 | 20100821 |
| VM28-234 | 280 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | 0.01 | 132 | 20100821 |
| VM28-234 | 280 | <i>G. tumida</i> | 425-500 | 1 | 2.29 | -0.63 | 117 | 20100821 |
| VM28-234 | 282 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | -0.47 | 124 | 20100821 |
| VM28-234 | 282 | <i>G. tumida</i> | 425-500 | 1 | 2.40 | -0.39 | 87 | 20100821 |
| VM28-234 | 282 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | -0.19 | 132 | 20100821 |
| VM28-234 | 284 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | 1.72 | 77 | 20100821 |
| VM28-234 | 284 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.16 | 111 | 20100821 |
| VM28-234 | 284 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -0.10 | 138 | 20100821 |
| VM28-234 | 286 | <i>G. tumida</i> | 425-500 | 1 | 2.44 | -0.01 | 135 | 20100821 |
| VM28-234 | 286 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | 0.04 | 134 | 20100821 |

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| VM28-234 | 286 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -0.58 | 107 | 20100821 |
| VM28-234 | 288 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | 0.28 | 118 | 20100821 |
| VM28-234 | 288 | <i>G. tumida</i> | 425-500 | 1 | 2.44 | -0.60 | 157 | 20100821 |
| VM28-234 | 288 | <i>G. tumida</i> | 425-500 | 1 | 1.66 | -0.50 | 98 | 20100821 |
| VM28-234 | 294 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | 0.06 | 110 | 20100821 |
| VM28-234 | 296 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | -0.14 | 151 | 20100821 |
| VM28-234 | 296 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | -0.28 | 105 | 20100821 |
| VM28-234 | 296 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | -0.14 | 120 | 20100821 |
| VM28-234 | 298 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | -0.33 | 86 | 20100821 |
| VM28-234 | 298 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | 0.10 | 100 | 20100821 |
| VM28-234 | 298 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.00 | 88 | 20100821 |
| VM28-234 | 300 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | -0.09 | 149 | 20100821 |
| VM28-234 | 300 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -0.14 | 121 | 20100821 |
| VM28-234 | 300 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | 0.70 | 130 | 20100821 |
| VM28-234 | 302 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.08 | 136 | 20100821 |
| VM28-234 | 302 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | 0.16 | 122 | 20100821 |

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| VM28-234 | 302 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.07 | 145 | 20100821 |
| VM28-234 | 304 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -0.30 | 150 | 20100821 |
| VM28-234 | 304 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -0.57 | 104 | 20100821 |
| VM28-234 | 306 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.16 | 150 | 20100818 |
| VM28-234 | 306 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | -0.35 | 85 | 20100818 |
| VM28-234 | 306 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | -0.10 | 102 | 20100818 |
| VM28-234 | 308 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | 0.48 | 111 | 20100818 |
| VM28-234 | 308 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | -0.25 | 103 | 20100818 |
| VM28-234 | 308 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | 0.49 | 143 | 20100818 |
| VM28-234 | 310 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | 0.17 | 96 | 20100818 |
| VM28-234 | 310 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -0.49 | 96 | 20100818 |
| VM28-234 | 310 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | 0.08 | 136 | 20100818 |
| VM28-234 | 312 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | 0.04 | 95 | 20100818 |
| VM28-234 | 312 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | 0.20 | 110 | 20100818 |
| VM28-234 | 314 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -0.22 | 145 | 20100818 |
| VM28-234 | 314 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -0.21 | 134 | 20100818 |

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| VM28-234 | 314 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | -0.65 | 129 | 20100818 |
| VM28-234 | 316 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | -0.20 | 118 | 20100818 |
| VM28-234 | 316 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | -0.29 | 86 | 20100818 |
| VM28-234 | 316 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -0.53 | 91 | 20100818 |
| VM28-234 | 318 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | -0.19 | 139 | 20100818 |
| VM28-234 | 318 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | -0.42 | 136 | 20100818 |
| VM28-234 | 318 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -0.38 | 87 | 20100818 |
| VM28-234 | 320 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | -0.07 | 132 | 20100818 |
| VM28-234 | 328 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | 0.42 | 129 | 20100818 |
| VM28-234 | 328 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | -0.20 | 81 | 20100818 |
| VM28-234 | 328 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | -0.60 | 102 | 20100818 |
| VM28-234 | 330 | <i>G. tumida</i> | 425-500 | 1 | 2.25 | -0.39 | 112 | 20100824 |
| VM28-234 | 330 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | -0.06 | 100 | 20100824 |
| VM28-234 | 330 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | -0.34 | 84 | 20100824 |
| VM28-234 | 332 | <i>G. tumida</i> | 425-500 | 1 | 2.30 | 0.28 | 98 | 20100824 |
| VM28-234 | 332 | <i>G. tumida</i> | 425-500 | 1 | 2.37 | -0.50 | 153 | 20100824 |

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| VM28-234 | 332 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | 0.58 | 94 | 20100826 |
| VM28-234 | 334 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -0.08 | 141 | 20100824 |
| VM28-234 | 334 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | 0.10 | 134 | 20100824 |
| VM28-234 | 334 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | -0.43 | 97 | 20100824 |
| VM28-234 | 336 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | -0.40 | 99 | 20100824 |
| VM28-234 | 336 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -0.75 | 120 | 20100824 |
| VM28-234 | 336 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | -0.35 | 113 | 20100824 |
| VM28-234 | 338 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | -0.49 | 116 | 20100824 |
| VM28-234 | 338 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | 0.17 | 139 | 20100824 |
| VM28-234 | 338 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | 0.34 | 131 | 20100824 |
| VM28-234 | 340 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.70 | 117 | 20100824 |
| VM28-234 | 340 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | -0.39 | 116 | 20100824 |
| VM28-234 | 340 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | -0.31 | 139 | 20100824 |
| VM28-234 | 342 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | 0.07 | 115 | 20100824 |
| VM28-234 | 342 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -0.60 | 152 | 20100824 |
| VM28-234 | 342 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | -0.03 | 151 | 20100824 |

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| VM28-234 | 344 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | 0.02 | 114 | 20100824 |
| VM28-234 | 344 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | -0.07 | 130 | 20100824 |
| VM28-234 | 344 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -0.70 | 123 | 20100824 |
| VM28-234 | 346 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -0.65 | 162 | 20100825 |
| VM28-234 | 346 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | -0.03 | 111 | 20100825 |
| VM28-234 | 346 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | -0.31 | 117 | 20100825 |
| VM28-234 | 348 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | 0.11 | 88 | 20100825 |
| VM28-234 | 348 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | 0.03 | 120 | 20100825 |
| VM28-234 | 354 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | 0.50 | 121 | 20100825 |
| VM28-234 | 354 | <i>G. tumida</i> | 425-500 | 1 | 0.99 | -0.55 | 86 | 20100825 |
| VM28-234 | 356 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | -0.56 | 116 | 20100825 |
| VM28-234 | 356 | <i>G. tumida</i> | 425-500 | 1 | 1.54 | -0.14 | 106 | 20100825 |
| VM28-234 | 356 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | -0.32 | 169 | 20100825 |
| VM28-234 | 358 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -0.41 | 120 | 20100825 |
| VM28-234 | 358 | <i>G. tumida</i> | 425-500 | 1 | 1.65 | 0.21 | 122 | 20100825 |
| VM28-234 | 358 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | -0.21 | 88 | 20100825 |

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| VM28-234 | 360 | <i>G. tumida</i> | 425-500 | 1 | 1.62 | 0.29 | 119 | 20100825 |
| VM28-234 | 360 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -0.50 | 142 | 20100825 |
| VM28-234 | 360 | <i>G. tumida</i> | 425-500 | 1 | 1.37 | -0.79 | 90 | 20100825 |
| VM28-234 | 362 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | -0.51 | 123 | 20100825 |
| VM28-234 | 362 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | 0.51 | 109 | 20100825 |
| VM28-234 | 362 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | -0.52 | 126 | 20100825 |
| VM28-234 | 364 | <i>G. tumida</i> | 425-500 | 1 | 1.57 | -0.38 | 144 | 20100825 |
| VM28-234 | 364 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | -0.29 | 103 | 20100825 |
| VM28-234 | 370 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | 0.03 | 136 | 20100825 |
| VM28-234 | 370 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | 0.07 | 110 | 20100825 |
| VM28-234 | 370 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | 0.21 | 132 | 20100825 |
| VM28-234 | 372 | <i>G. tumida</i> | 425-500 | 1 | 1.64 | 0.17 | 108 | 20100826 |
| VM28-234 | 372 | <i>G. tumida</i> | 425-500 | 1 | 1.36 | -0.07 | 142 | 20100826 |
| VM28-234 | 372 | <i>G. tumida</i> | 425-500 | 1 | 1.66 | 0.13 | 108 | 20100826 |
| VM28-234 | 374 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | -0.14 | 70 | 20100826 |
| VM28-234 | 374 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | 0.43 | 104 | 20100826 |

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| VM28-234 | 374 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | -0.34 | 165 | 20100826 |
| VM28-234 | 376 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | -0.30 | 148 | 20100826 |
| VM28-234 | 376 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | 0.00 | 132 | 20100826 |
| VM28-234 | 384 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | 0.68 | 139 | 20100826 |
| VM28-234 | 384 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | -0.14 | 124 | 20100826 |
| VM28-234 | 384 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | 0.46 | 92 | 20100826 |
| VM28-234 | 386 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | 0.31 | 88 | 20100826 |
| VM28-234 | 386 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | -0.06 | 110 | 20100826 |
| VM28-234 | 386 | <i>G. tumida</i> | 425-500 | 1 | 2.23 | -0.22 | 120 | 20100826 |
| VM28-234 | 388 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | 0.10 | 124 | 20100826 |
| VM28-234 | 388 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -0.07 | 126 | 20100826 |
| VM28-234 | 390 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | -0.01 | 145 | 20100826 |
| VM28-234 | 390 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | 0.12 | 110 | 20100826 |
| VM28-234 | 390 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | -0.13 | 96 | 20100826 |
| VM28-234 | 392 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | -0.25 | 148 | 20100826 |
| VM28-234 | 392 | <i>G. tumida</i> | 425-500 | 1 | 2.28 | -0.39 | 131 | 20100826 |

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| VM28-234 | 392 | <i>G. tumida</i> | 425-500 | 1 | 1.60 | -0.37 | 116 | 20100826 |
| VM28-234 | 396 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | -0.34 | 135 | 20100828 |
| VM28-234 | 400 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -0.10 | 118 | 20100828 |
| VM28-234 | 408 | <i>G. tumida</i> | 425-500 | 1 | 2.25 | -0.48 | 111 | 20100828 |
| VM28-234 | 408 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | 0.18 | 168 | 20100828 |
| VM28-234 | 408 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | 0.27 | 121 | 20100828 |
| VM28-234 | 410 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | 0.06 | 107 | 20100828 |
| VM28-234 | 418 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | -0.77 | 108 | 20100828 |
| VM28-234 | 418 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | -0.61 | 108 | 20100828 |
| VM28-234 | 418 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | -0.56 | 114 | 20100828 |
| VM28-234 | 420 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | -0.37 | 103 | 20100828 |
| VM28-234 | 420 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | -0.31 | 89 | 20100828 |
| VM28-234 | 420 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | -0.57 | 116 | 20100828 |
| VM28-234 | 426 | <i>G. tumida</i> | 425-500 | 1 | 2.23 | -0.09 | 91 | 20100828 |
| VM28-234 | 426 | <i>G. tumida</i> | 425-500 | 1 | 2.32 | -0.76 | 105 | 20100828 |
| VM28-234 | 426 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | -0.47 | 97 | 20100828 |

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| VM28-234 | 428 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | -0.13 | 103 | 20100828 |
| VM28-234 | 428 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | -0.36 | 137 | 20100828 |
| VM28-234 | 428 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -0.53 | 93 | 20100828 |
| VM28-234 | 430 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | -0.63 | 91 | 20100828 |
| VM28-234 | 430 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | -0.63 | 84 | 20100828 |
| VM28-234 | 430 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | -0.66 | 109 | 20100828 |
| VM28-234 | 432 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -1.01 | 132 | 20100828 |
| VM28-234 | 432 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | -0.64 | 103 | 20100828 |
| VM28-234 | 434 | <i>G. tumida</i> | 425-500 | 1 | 1.51 | -1.14 | 83 | 20100828 |
| VM28-234 | 436 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | -0.39 | 116 | 20100828 |
| VM28-234 | 436 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | -0.90 | 106 | 20100828 |
| VM28-234 | 438 | <i>G. tumida</i> | 425-500 | 1 | 2.44 | -1.08 | 99 | 20100828 |
| VM28-234 | 438 | <i>G. tumida</i> | 425-500 | 1 | 2.33 | -0.16 | 133 | 20100828 |
| VM28-234 | 438 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | -0.52 | 125 | 20100828 |
| VM28-234 | 440 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | -0.35 | 132 | 20100828 |
| VM28-234 | 440 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | -0.75 | 132 | 20100828 |

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| VM28-234 | 440 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | -0.78 | 119 | | 20100828 |
| VM28-234 | 442 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -1.06 | 141 | | 20100828 |
| VM28-234 | 442 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | -0.77 | 117 | | 20100828 |
| VM28-234 | 442 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | -0.92 | 167 | | 20100828 |
| VM28-234 | 444 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -1.01 | 126 | | 20100828 |
| VM28-234 | 444 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | -0.62 | 134 | | 20100828 |
| VM28-234 | 444 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | -0.90 | 147 | | 20100830 |
| VM28-234 | 446 | <i>G. tumida</i> | 425-500 | 1 | 2.33 | -0.90 | 119 | | 20100830 |
| VM28-234 | 446 | <i>G. tumida</i> | 425-500 | 1 | 2.27 | -1.15 | 106 | | 20100830 |
| VM28-234 | 448 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | -0.89 | 133 | | 20100830 |
| VM28-234 | 448 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | -0.80 | 129 | | 20100830 |
| VM28-234 | 450 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | -0.04 | 103 | | 20100830 |
| VM28-234 | 0 | <i>G. ruber</i> | 250-355 | 10 | 1.79 | -2.30 | 127 | LH | 20090217 |
| VM28-234 | 0 | <i>G. ruber</i> | 250-355 | 10 | 1.63 | -2.67 | 96 | LH | 20100409 |
| VM28-234 | 2 | <i>G. ruber</i> | 250-355 | 10 | 1.57 | -2.62 | 113 | LH | 20100409 |
| VM28-234 | 2 | <i>G. ruber</i> | 250-355 | 10 | 1.37 | -2.55 | 118 | LH | 20100721 |

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| VM28-234 | 4 | <i>G. ruber</i> | 250-355 | 10 | 1.50 | -2.67 | 78 | LH | 20090217 |
| VM28-234 | 6 | <i>G. ruber</i> | 250-355 | 10 | 1.35 | -2.63 | 108 | LH | 20100721 |
| VM28-234 | 8 | <i>G. ruber</i> | 250-355 | 10 | 1.86 | -2.71 | 106 | LH | 20090217 |
| VM28-234 | 10 | <i>G. ruber</i> | 250-355 | 10 | 1.72 | -2.76 | 118 | LH | 20100721 |
| VM28-234 | 12 | <i>G. ruber</i> | 250-355 | 10 | 1.27 | -2.84 | 87 | LH | 20090217 |
| VM28-234 | 14 | <i>G. ruber</i> | 250-355 | 10 | 1.63 | -2.77 | 122 | LH | 20100721 |
| VM28-234 | 16 | <i>G. ruber</i> | 250-355 | 10 | 1.47 | -2.54 | 147 | LH | 20090217 |
| VM28-234 | 18 | <i>G. ruber</i> | 250-355 | 10 | 1.50 | -2.57 | 129 | | 20100721 |
| VM28-234 | 20 | <i>G. ruber</i> | 250-355 | 10 | 1.58 | -2.53 | 125 | | 20090217 |
| VM28-234 | 22 | <i>G. ruber</i> | 250-355 | 10 | 1.55 | -2.62 | 120 | | 20100721 |
| VM28-234 | 24 | <i>G. ruber</i> | 250-355 | 10 | 1.59 | -2.36 | 127 | | 20090217 |
| VM28-234 | 26 | <i>G. ruber</i> | 250-355 | 10 | 1.38 | -2.57 | 117 | | 20100721 |
| VM28-234 | 28 | <i>G. ruber</i> | 250-355 | 10 | 1.43 | -2.47 | 132 | | 20090217 |
| VM28-234 | 30 | <i>G. ruber</i> | 250-355 | 10 | 1.51 | -2.46 | 127 | | 20100721 |
| VM28-234 | 32 | <i>G. ruber</i> | 250-355 | 10 | 1.63 | -2.25 | 141 | | 20090217 |
| VM28-234 | 34 | <i>G. ruber</i> | 250-355 | 10 | 1.21 | -2.49 | 131 | | 20100721 |

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| VM28-234 | 36 | <i>G. ruber</i> | 250-355 | 10 | 1.54 | -2.23 | 149 | 20090217 |
| VM28-234 | 38 | <i>G. ruber</i> | 250-355 | 10 | 1.34 | -2.31 | 130 | 20100721 |
| VM28-234 | 40 | <i>G. ruber</i> | 250-355 | 10 | 1.06 | -2.17 | 119 | 20090217 |
| VM28-234 | 42 | <i>G. ruber</i> | 250-355 | 10 | 1.28 | -2.48 | 111 | 20100721 |
| VM28-234 | 44 | <i>G. ruber</i> | 250-355 | 10 | 1.22 | -2.16 | 110 | 20090217 |
| VM28-234 | 46 | <i>G. ruber</i> | 250-355 | 10 | 1.17 | -2.30 | 117 | 20100721 |
| VM28-234 | 48 | <i>G. ruber</i> | 250-355 | 10 | 1.21 | -2.05 | 140 | 20090217 |
| VM28-234 | 50 | <i>G. ruber</i> | 250-355 | 10 | 0.92 | -2.35 | 112 | 20100721 |
| VM28-234 | 52 | <i>G. ruber</i> | 250-355 | 10 | 1.27 | -2.07 | 136 | 20090217 |
| VM28-234 | 54 | <i>G. ruber</i> | 250-355 | 10 | 1.04 | -2.04 | 136 | 20100721 |
| VM28-234 | 56 | <i>G. ruber</i> | 250-355 | 10 | 1.35 | -1.72 | 142 | 20090217 |
| VM28-234 | 58 | <i>G. ruber</i> | 250-355 | 10 | 1.07 | -2.08 | 109 | 20100721 |
| VM28-234 | 60 | <i>G. ruber</i> | 250-355 | 10 | 1.22 | -1.66 | 155 | 20090217 |
| VM28-234 | 62 | <i>G. ruber</i> | 250-355 | 10 | 1.39 | -2.00 | 141 | 20100721 |
| VM28-234 | 64 | <i>G. ruber</i> | 250-355 | 10 | 0.88 | -1.95 | 124 | 20100721 |
| VM28-234 | 66 | <i>G. ruber</i> | 250-355 | 10 | 1.03 | -1.97 | 144 | 20100721 |

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| VM28-234 | 68 | <i>G. ruber</i> | 250-355 | 10 | 1.06 | -2.20 | 126 | 20100721 |
| VM28-234 | 70 | <i>G. ruber</i> | 250-355 | 10 | 1.22 | -1.73 | 120 | 20100721 |
| VM28-234 | 72 | <i>G. ruber</i> | 250-355 | 10 | 1.14 | -1.87 | 104 | 20100721 |
| VM28-234 | 74 | <i>G. ruber</i> | 250-355 | 10 | 1.02 | -1.74 | 116 | 20100721 |
| VM28-234 | 76 | <i>G. ruber</i> | 250-355 | 10 | 1.08 | -2.09 | 129 | 20100721 |
| VM28-234 | 78 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -1.76 | 120 | 20100721 |
| VM28-234 | 80 | <i>G. ruber</i> | 250-355 | 10 | 1.00 | -1.81 | 105 | 20091009 |
| VM28-234 | 82 | <i>G. ruber</i> | 250-355 | 10 | 1.17 | -1.95 | 124 | 20100723 |
| VM28-234 | 84 | <i>G. ruber</i> | 250-355 | 10 | 0.95 | -1.93 | 115 | 20100723 |
| VM28-234 | 86 | <i>G. ruber</i> | 250-355 | 10 | 1.09 | -1.68 | 134 | 20100723 |
| VM28-234 | 88 | <i>G. ruber</i> | 250-355 | 10 | 0.93 | -1.94 | 127 | 20100723 |
| VM28-234 | 90 | <i>G. ruber</i> | 250-355 | 10 | 0.98 | -1.53 | 128 | 20100723 |
| VM28-234 | 92 | <i>G. ruber</i> | 250-355 | 10 | 0.84 | -1.41 | 113 | 20100723 |
| VM28-234 | 94 | <i>G. ruber</i> | 250-355 | 10 | 0.80 | -1.39 | 116 | 20100723 |
| VM28-234 | 96 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -1.27 | 132 | 20100723 |
| VM28-234 | 98 | <i>G. ruber</i> | 250-355 | 10 | 1.03 | -1.46 | 122 | 20100723 |

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|----------|-----|-----------------|---------|----|------|-------|-----|-----|----------|
| VM28-234 | 100 | <i>G. ruber</i> | 250-355 | 10 | 1.49 | -1.16 | 120 | | 20091009 |
| VM28-234 | 102 | <i>G. ruber</i> | 250-355 | 10 | 1.22 | -1.34 | 122 | | 20100723 |
| VM28-234 | 104 | <i>G. ruber</i> | 250-355 | 10 | 1.23 | -1.24 | 120 | | 20100723 |
| VM28-234 | 106 | <i>G. ruber</i> | 250-355 | 10 | 1.42 | -1.07 | 133 | | 20100723 |
| VM28-234 | 108 | <i>G. ruber</i> | 250-355 | 10 | 1.07 | -1.10 | 104 | | 20100723 |
| VM28-234 | 110 | <i>G. ruber</i> | 250-355 | 10 | 1.33 | -1.04 | 116 | | 20100723 |
| VM28-234 | 112 | <i>G. ruber</i> | 250-355 | 10 | 1.44 | -1.20 | 131 | | 20100723 |
| VM28-234 | 114 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -1.35 | 113 | | 20100723 |
| VM28-234 | 116 | <i>G. ruber</i> | 250-355 | 10 | 1.22 | -1.49 | 116 | LGM | 20100723 |
| VM28-234 | 118 | <i>G. ruber</i> | 250-355 | 10 | 1.07 | -1.33 | 116 | LGM | 20100723 |
| VM28-234 | 120 | <i>G. ruber</i> | 250-355 | 10 | 1.32 | -1.05 | 107 | LGM | 20091009 |
| VM28-234 | 122 | <i>G. ruber</i> | 250-355 | 10 | 1.17 | -1.24 | 111 | LGM | 20100723 |
| VM28-234 | 124 | <i>G. ruber</i> | 250-355 | 10 | 1.17 | -1.27 | 119 | LGM | 20100723 |
| VM28-234 | 126 | <i>G. ruber</i> | 250-355 | 10 | 1.39 | -1.25 | 121 | LGM | 20100723 |
| VM28-234 | 128 | <i>G. ruber</i> | 250-355 | 10 | 0.99 | -1.39 | 123 | LGM | 20100723 |
| VM28-234 | 132 | <i>G. ruber</i> | 250-355 | 10 | 1.03 | -1.37 | 127 | LGM | 20100723 |

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|----------|-----|-----------------|---------|----|------|-------|-----|-----|----------|
| VM28-234 | 160 | <i>G. ruber</i> | 250-355 | 10 | 0.96 | -1.28 | 126 | LGM | 20091009 |
| VM28-234 | 182 | <i>G. ruber</i> | 250-355 | 10 | 1.02 | -1.44 | 126 | | 20100804 |
| VM28-234 | 184 | <i>G. ruber</i> | 250-355 | 10 | 1.13 | -1.37 | 120 | | 20100804 |
| VM28-234 | 186 | <i>G. ruber</i> | 250-355 | 10 | 1.31 | -1.38 | 126 | | 20100804 |
| VM28-234 | 188 | <i>G. ruber</i> | 250-355 | 10 | 1.47 | -1.42 | 113 | | 20100804 |
| VM28-234 | 190 | <i>G. ruber</i> | 250-355 | 10 | 1.23 | -1.43 | 125 | | 20100804 |
| VM28-234 | 192 | <i>G. ruber</i> | 250-355 | 10 | 1.05 | -1.52 | 120 | | 20100804 |
| VM28-234 | 194 | <i>G. ruber</i> | 250-355 | 10 | 1.40 | -1.36 | 120 | | 20100804 |
| VM28-234 | 196 | <i>G. ruber</i> | 250-355 | 10 | 1.54 | -1.54 | 105 | | 20100804 |
| VM28-234 | 198 | <i>G. ruber</i> | 250-355 | 10 | 1.38 | -1.52 | 129 | | 20100804 |
| VM28-234 | 200 | <i>G. ruber</i> | 250-355 | 10 | 1.30 | -1.65 | 127 | | 20100804 |
| VM28-234 | 202 | <i>G. ruber</i> | 250-355 | 10 | 1.10 | -1.54 | 104 | | 20100804 |
| VM28-234 | 204 | <i>G. ruber</i> | 250-355 | 10 | 1.13 | -1.67 | 119 | | 20100804 |
| VM28-234 | 206 | <i>G. ruber</i> | 250-355 | 10 | 1.12 | -1.89 | 125 | | 20100804 |
| VM28-234 | 208 | <i>G. ruber</i> | 250-355 | 10 | 1.13 | -1.72 | 125 | | 20100804 |
| VM28-234 | 210 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -1.49 | 109 | | 20100804 |

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|----------|-----|-----------------|---------|----|------|-------|-----|----------|
| VM28-234 | 212 | <i>G. ruber</i> | 250-355 | 10 | 1.13 | -1.68 | 114 | 20100804 |
| VM28-234 | 214 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -1.57 | 130 | 20100804 |
| VM28-234 | 216 | <i>G. ruber</i> | 250-355 | 10 | 1.41 | -1.57 | 121 | 20100804 |
| VM28-234 | 218 | <i>G. ruber</i> | 250-355 | 10 | 1.39 | -1.55 | 125 | 20100804 |
| VM28-234 | 220 | <i>G. ruber</i> | 250-355 | 10 | 1.15 | -1.48 | 132 | 20100804 |
| VM28-234 | 222 | <i>G. ruber</i> | 250-355 | 10 | 1.46 | -1.69 | 117 | 20100804 |
| VM28-234 | 224 | <i>G. ruber</i> | 250-355 | 10 | 1.30 | -1.66 | 130 | 20100804 |
| VM28-234 | 226 | <i>G. ruber</i> | 250-355 | 10 | 1.14 | -1.47 | 99 | 20100804 |
| VM28-234 | 228 | <i>G. ruber</i> | 250-355 | 10 | 1.21 | -1.67 | 109 | 20100804 |
| VM28-234 | 230 | <i>G. ruber</i> | 250-355 | 10 | 1.33 | -1.62 | 118 | 20100805 |
| VM28-234 | 232 | <i>G. ruber</i> | 250-355 | 10 | 1.07 | -1.74 | 124 | 20100805 |
| VM28-234 | 234 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -1.51 | 119 | 20100805 |
| VM28-234 | 236 | <i>G. ruber</i> | 250-355 | 10 | 1.24 | -1.77 | 115 | 20100805 |
| VM28-234 | 240 | <i>G. ruber</i> | 250-355 | 10 | 1.32 | -1.50 | 119 | 20100805 |
| VM28-234 | 242 | <i>G. ruber</i> | 250-355 | 10 | 1.46 | -1.46 | 118 | 20100805 |
| VM28-234 | 244 | <i>G. ruber</i> | 250-355 | 10 | 1.30 | -1.53 | 121 | 20100805 |

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|----------|-----|-----------------|---------|----|------|-------|-----|----------|
| VM28-234 | 246 | <i>G. ruber</i> | 250-355 | 10 | 1.45 | -1.59 | 118 | 20100805 |
| VM28-234 | 248 | <i>G. ruber</i> | 250-355 | 10 | 1.51 | -1.64 | 129 | 20100805 |
| VM28-234 | 250 | <i>G. ruber</i> | 250-355 | 10 | 1.14 | -1.76 | 125 | 20100805 |
| VM28-234 | 252 | <i>G. ruber</i> | 250-355 | 10 | 1.30 | -1.71 | 131 | 20100805 |
| VM28-234 | 254 | <i>G. ruber</i> | 250-355 | 10 | 1.54 | -1.55 | 132 | 20100805 |
| VM28-234 | 256 | <i>G. ruber</i> | 250-355 | 10 | 1.49 | -1.76 | 120 | 20100805 |
| VM28-234 | 258 | <i>G. ruber</i> | 250-355 | 10 | 1.09 | -1.69 | 114 | 20100805 |
| VM28-234 | 260 | <i>G. ruber</i> | 250-355 | 10 | 1.14 | -1.67 | 101 | 20100805 |
| VM28-234 | 262 | <i>G. ruber</i> | 250-355 | 10 | 0.93 | -1.74 | 125 | 20100810 |
| VM28-234 | 264 | <i>G. ruber</i> | 250-355 | 10 | 1.17 | -1.77 | 112 | 20100810 |
| VM28-234 | 266 | <i>G. ruber</i> | 250-355 | 10 | 1.48 | -1.69 | 125 | 20100810 |
| VM28-234 | 268 | <i>G. ruber</i> | 250-355 | 10 | 1.11 | -1.62 | 112 | 20100810 |
| VM28-234 | 270 | <i>G. ruber</i> | 250-355 | 10 | 1.05 | -1.75 | 96 | 20100805 |
| VM28-234 | 272 | <i>G. ruber</i> | 250-355 | 10 | 0.90 | -1.61 | 101 | 20100805 |
| VM28-234 | 274 | <i>G. ruber</i> | 250-355 | 10 | 1.01 | -1.73 | 147 | 20100805 |
| VM28-234 | 276 | <i>G. ruber</i> | 250-355 | 10 | 1.13 | -1.72 | 123 | 20100805 |

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|----------|-----|-----------------|---------|----|------|-------|-----|----------|
| VM28-234 | 278 | <i>G. ruber</i> | 250-355 | 10 | 1.03 | -1.70 | 114 | 20100805 |
| VM28-234 | 280 | <i>G. ruber</i> | 250-355 | 10 | 1.09 | -1.68 | 111 | 20100805 |
| VM28-234 | 282 | <i>G. ruber</i> | 250-355 | 10 | 1.19 | -1.60 | 129 | 20100805 |
| VM28-234 | 284 | <i>G. ruber</i> | 250-355 | 10 | 1.11 | -1.67 | 112 | 20100805 |
| VM28-234 | 286 | <i>G. ruber</i> | 250-355 | 10 | 1.08 | -1.70 | 110 | 20100805 |
| VM28-234 | 288 | <i>G. ruber</i> | 250-355 | 10 | 1.38 | -1.68 | 128 | 20100810 |
| VM28-234 | 290 | <i>G. ruber</i> | 250-355 | 10 | 1.41 | -1.60 | 129 | 20100810 |
| VM28-234 | 292 | <i>G. ruber</i> | 250-355 | 10 | 1.15 | -1.70 | 115 | 20100810 |
| VM28-234 | 294 | <i>G. ruber</i> | 250-355 | 10 | 1.10 | -1.57 | 125 | 20100810 |
| VM28-234 | 296 | <i>G. ruber</i> | 250-355 | 10 | 1.52 | -1.54 | 119 | 20100810 |
| VM28-234 | 298 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -1.67 | 125 | 20100810 |
| VM28-234 | 300 | <i>G. ruber</i> | 250-355 | 10 | 1.48 | -1.82 | 115 | 20100810 |
| VM28-234 | 302 | <i>G. ruber</i> | 250-355 | 10 | 1.52 | -1.65 | 132 | 20100810 |
| VM28-234 | 304 | <i>G. ruber</i> | 250-355 | 10 | 1.41 | -1.77 | 123 | 20100810 |
| VM28-234 | 306 | <i>G. ruber</i> | 250-355 | 10 | 1.22 | -1.67 | 118 | 20100810 |
| VM28-234 | 308 | <i>G. ruber</i> | 250-355 | 10 | 0.87 | -1.80 | 90 | 20100810 |

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|----------|-----|-----------------|---------|----|------|-------|-----|----------|
| VM28-234 | 310 | <i>G. ruber</i> | 250-355 | 10 | 0.94 | -1.88 | 102 | 20100810 |
| VM28-234 | 312 | <i>G. ruber</i> | 250-355 | 10 | 1.11 | -1.64 | 110 | 20100810 |
| VM28-234 | 314 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -1.67 | 121 | 20100810 |
| VM28-234 | 316 | <i>G. ruber</i> | 250-355 | 10 | 1.52 | -1.81 | 128 | 20100810 |
| VM28-234 | 318 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -1.89 | 118 | 20100810 |
| VM28-234 | 320 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -1.72 | 106 | 20100810 |
| VM28-234 | 322 | <i>G. ruber</i> | 250-355 | 10 | 1.12 | -1.83 | 104 | 20100810 |
| VM28-234 | 324 | <i>G. ruber</i> | 250-355 | 10 | 0.97 | -1.78 | 106 | 20100810 |
| VM28-234 | 326 | <i>G. ruber</i> | 250-355 | 10 | 1.14 | -1.65 | 121 | 20100810 |
| VM28-234 | 328 | <i>G. ruber</i> | 250-355 | 10 | 1.44 | -1.73 | 102 | 20100830 |
| VM28-234 | 330 | <i>G. ruber</i> | 250-355 | 10 | 1.29 | -1.81 | 117 | 20100830 |
| VM28-234 | 332 | <i>G. ruber</i> | 250-355 | 10 | 0.99 | -1.72 | 90 | 20100830 |
| VM28-234 | 334 | <i>G. ruber</i> | 250-355 | 10 | 1.27 | -1.73 | 107 | 20100830 |
| VM28-234 | 336 | <i>G. ruber</i> | 250-355 | 10 | 1.03 | -1.74 | 115 | 20100830 |
| VM28-234 | 338 | <i>G. ruber</i> | 250-355 | 10 | 1.08 | -1.78 | 94 | 20100830 |
| VM28-234 | 340 | <i>G. ruber</i> | 250-355 | 10 | 1.10 | -1.93 | 114 | 20100830 |

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| VM28-234 | 342 | <i>G. ruber</i> | 250-355 | 10 | 0.95 | -2.09 | 101 | 20100830 |
| VM28-234 | 344 | <i>G. ruber</i> | 250-355 | 10 | 1.22 | -1.87 | 131 | 20100830 |
| VM28-234 | 346 | <i>G. ruber</i> | 250-355 | 10 | 1.01 | -1.90 | 109 | 20100830 |
| VM28-234 | 348 | <i>G. ruber</i> | 250-355 | 10 | 0.85 | -2.02 | 127 | 20100830 |
| VM28-234 | 350 | <i>G. ruber</i> | 250-355 | 10 | 0.94 | -2.04 | 123 | 20100830 |
| VM28-234 | 352 | <i>G. ruber</i> | 250-355 | 10 | 0.84 | -1.78 | 104 | 20100830 |
| VM28-234 | 354 | <i>G. ruber</i> | 250-355 | 10 | 0.92 | -1.81 | 97 | 20100830 |
| VM28-234 | 356 | <i>G. ruber</i> | 250-355 | 10 | 0.74 | -1.84 | 97 | 20100830 |
| VM28-234 | 358 | <i>G. ruber</i> | 250-355 | 10 | 1.00 | -1.85 | 107 | 20100830 |
| VM28-234 | 360 | <i>G. ruber</i> | 250-355 | 10 | 0.89 | -1.83 | 127 | 20100830 |
| VM28-234 | 362 | <i>G. ruber</i> | 250-355 | 10 | 1.30 | -1.89 | 133 | 20100901 |
| VM28-234 | 364 | <i>G. ruber</i> | 250-355 | 10 | 0.85 | -1.94 | 110 | 20100901 |
| VM28-234 | 368 | <i>G. ruber</i> | 250-355 | 10 | 1.03 | -1.69 | 158 | 20100901 |
| VM28-234 | 370 | <i>G. ruber</i> | 250-355 | 10 | 0.96 | -1.76 | 147 | 20100901 |
| VM28-234 | 372 | <i>G. ruber</i> | 250-355 | 10 | 0.97 | -1.89 | 153 | 20100901 |
| VM28-234 | 374 | <i>G. ruber</i> | 250-355 | 10 | 0.80 | -1.73 | 146 | 20100901 |

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|----------|-----|-----------------|---------|----|------|-------|-----|----------|
| VM28-234 | 376 | <i>G. ruber</i> | 250-355 | 10 | 0.89 | -1.59 | 125 | 20100901 |
| VM28-234 | 380 | <i>G. ruber</i> | 250-355 | 10 | 0.96 | -1.48 | 132 | 20100901 |
| VM28-234 | 382 | <i>G. ruber</i> | 250-355 | 10 | 1.10 | -1.75 | 141 | 20100901 |
| VM28-234 | 384 | <i>G. ruber</i> | 250-355 | 10 | 0.76 | -1.56 | 133 | 20100901 |
| VM28-234 | 386 | <i>G. ruber</i> | 250-355 | 10 | 1.08 | -1.45 | 132 | 20100901 |
| VM28-234 | 388 | <i>G. ruber</i> | 250-355 | 10 | 0.96 | -1.62 | 132 | 20100901 |
| VM28-234 | 390 | <i>G. ruber</i> | 250-355 | 10 | 0.57 | -1.75 | 113 | 20100901 |
| VM28-234 | 392 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -1.65 | 151 | 20100901 |
| VM28-234 | 394 | <i>G. ruber</i> | 250-355 | 10 | 0.97 | -1.56 | 126 | 20100901 |
| VM28-234 | 396 | <i>G. ruber</i> | 250-355 | 10 | 1.13 | -1.64 | 124 | 20100901 |
| VM28-234 | 398 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -1.86 | 161 | 20100901 |
| VM28-234 | 400 | <i>G. ruber</i> | 250-355 | 10 | 1.06 | -1.65 | 171 | 20100901 |
| VM28-234 | 402 | <i>G. ruber</i> | 250-355 | 10 | 0.94 | -1.76 | 137 | 20100901 |
| VM28-234 | 404 | <i>G. ruber</i> | 250-355 | 10 | 0.94 | -1.92 | 129 | 20100901 |
| VM28-234 | 406 | <i>G. ruber</i> | 250-355 | 10 | 1.33 | -1.62 | 131 | 20100901 |
| VM28-234 | 408 | <i>G. ruber</i> | 250-355 | 10 | 1.50 | -1.63 | 118 | 20100901 |

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|----------|-----|---------------------------|---------|----|------|-------|-----|----------|
| VM28-234 | 410 | <i>G. ruber</i> | 250-355 | 10 | 1.40 | -1.72 | 119 | 20100901 |
| VM28-234 | 416 | <i>G. ruber</i> | 250-355 | 10 | 1.07 | -2.08 | 101 | 20100902 |
| VM28-234 | 420 | <i>G. ruber</i> | 250-355 | 10 | 1.31 | -1.90 | 113 | 20100902 |
| VM28-234 | 422 | <i>G. ruber</i> | 250-355 | 10 | 0.90 | -1.99 | 117 | 20100902 |
| VM28-234 | 424 | <i>G. ruber</i> | 250-355 | 10 | 0.89 | -2.03 | 117 | 20100902 |
| VM28-234 | 428 | <i>G. ruber</i> | 250-355 | 10 | 0.98 | -1.92 | 94 | 20100902 |
| VM28-234 | 432 | <i>G. ruber</i> | 250-355 | 10 | 1.36 | -2.20 | 99 | 20100902 |
| VM28-234 | 434 | <i>G. ruber</i> | 250-355 | 10 | 1.11 | -2.16 | 103 | 20100902 |
| VM28-234 | 438 | <i>G. ruber</i> | 250-355 | 10 | 1.43 | -2.11 | 101 | 20100902 |
| VM28-234 | 440 | <i>G. ruber</i> | 250-355 | 10 | 1.52 | -2.14 | 97 | 20100902 |
| VM28-234 | 442 | <i>G. ruber</i> | 250-355 | 10 | 1.55 | -2.26 | 119 | 20100902 |
| VM28-234 | 444 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -2.34 | 106 | 20100902 |
| VM28-234 | 446 | <i>G. ruber</i> | 250-355 | 10 | 1.20 | -2.20 | 118 | 20100902 |
| VM28-234 | 448 | <i>G. ruber</i> | 250-355 | 10 | 1.09 | -2.03 | 105 | 20100902 |
| VM28-234 | 450 | <i>G. ruber</i> | 250-355 | 10 | 1.17 | -2.13 | 107 | 20100902 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | >500 | 1 | 1.15 | -1.73 | 114 | 20110624 |

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|----------|---|---------------------------|---------|---|------|-------|-----|----------|
| VM28-234 | 0 | <i>P. obliquiloculata</i> | >500 | 1 | 1.50 | -1.43 | 102 | 20110624 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | >500 | 1 | 1.68 | -1.49 | 136 | 20110624 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | >500 | 1 | 1.58 | -1.25 | 105 | 20110624 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 425-500 | 1 | 1.32 | -1.30 | 65 | 20110624 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 425-500 | 1 | 0.93 | -1.42 | 58 | 20110624 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 425-500 | 1 | 1.25 | -1.53 | 88 | 20110624 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 425-500 | 1 | 0.95 | -1.81 | 32 | 20110624 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 425-500 | 1 | 1.13 | -1.63 | 73 | 20110624 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.71 | -1.17 | 68 | 20110624 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.44 | -0.89 | 41 | 20110624 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.36 | -1.60 | 42 | 20110624 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.82 | -1.55 | 25 | 20110624 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 300-355 | 1 | 1.63 | -1.13 | 51 | 20110624 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 300-355 | 1 | 1.42 | -1.54 | 35 | 20110624 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 300-355 | 1 | 1.59 | -1.17 | 33 | 20110624 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 250-300 | 1 | 0.28 | -1.52 | 22 | 20110624 |

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|----------|---|---------------------------|---------|---|------|-------|-----|----------|
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 250-300 | 1 | 1.08 | -1.19 | 25 | 20110624 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 250-300 | 1 | 1.30 | -0.67 | 27 | 20110624 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 250-300 | 1 | 0.79 | -1.56 | 29 | 20110624 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | | 1 | 0.87 | -1.54 | 62 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | | 1 | 1.18 | -1.75 | 126 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | | 1 | 1.43 | -1.19 | 109 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | | 1 | 1.29 | -1.52 | 100 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | | 1 | 1.51 | -1.30 | 95 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | | 1 | 1.44 | -1.10 | 105 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | | 1 | 1.19 | -1.65 | 44 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | | 1 | 1.32 | -1.20 | 62 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | | 1 | 1.25 | -1.30 | 61 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | | 1 | 1.31 | -1.16 | 52 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | | 1 | 0.76 | -1.78 | 28 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | | 1 | 1.60 | -1.58 | 54 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | | 1 | 0.91 | -1.56 | 36 | 20110519 |

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|----------|---|--------------------------------|---|------|-------|-----|----------|
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 1 | 1.28 | -1.42 | 45 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 1 | 0.93 | -1.51 | 28 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 1 | 1.53 | -0.77 | 37 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 1 | 1.17 | -1.47 | 45 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 1 | 1.26 | -1.02 | 29 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 1 | 1.34 | -0.34 | 24 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 1 | 1.11 | -1.79 | 21 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 1 | 0.82 | 0.36 | 17 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 1 | 0.84 | -1.77 | 15 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 1 | 0.95 | -1.94 | 13 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 1 | 0.86 | -2.35 | 13 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 1 | 0.72 | -1.83 | 11 | 20110519 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> >500 | 1 | 0.98 | 0.17 | 60 | 20110629 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> >500 | 1 | 1.62 | -1.00 | 104 | 20110629 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> >500 | 1 | 1.44 | -1.44 | 118 | 20110629 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> >500 | 1 | 1.18 | -1.44 | 128 | 20110629 |

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|----------|-----|---------------------------|---------|---|-------|-------|----|----------|
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 425-500 | 1 | 1.70 | -1.51 | 69 | 20110629 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 425-500 | 1 | 1.37 | -1.51 | 78 | 20110629 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 425-500 | 1 | 1.20 | -1.71 | 45 | 20110629 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 425-500 | 1 | 1.40 | -1.59 | 65 | 20110629 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.47 | -1.58 | 52 | 20110629 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.69 | -2.04 | 22 | 20110629 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.46 | -1.45 | 27 | 20110629 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.79 | -1.46 | 27 | 20110629 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.35 | -1.47 | 48 | 20110629 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 300-355 | 1 | 1.16 | -1.71 | 17 | 20110629 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 300-355 | 1 | 0.89 | -1.14 | 16 | 20110629 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 300-355 | 1 | 1.31 | -1.62 | 32 | 20110629 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 250-300 | 1 | 0.97 | -2.06 | 14 | 20110629 |
| VM28-234 | 0 | <i>P. obliquiloculata</i> | 250-300 | 1 | 1.12 | -1.64 | 15 | 20110629 |
| VM28-234 | 116 | <i>P. obliquiloculata</i> | | 1 | 0.90 | -0.74 | 43 | 20111122 |
| VM28-234 | 132 | <i>P. obliquiloculata</i> | | 1 | -0.78 | 4.15 | 32 | 20111122 |

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|----------|-----|---------------------------|---------|---|------|-------|-----|----------|
| VM28-234 | 140 | <i>P. obliquiloculata</i> | | 1 | 0.60 | -0.19 | 25 | 20111122 |
| VM28-234 | 146 | <i>P. obliquiloculata</i> | | 1 | 1.24 | 0.01 | 36 | 20111122 |
| VM28-234 | 150 | <i>P. obliquiloculata</i> | | 1 | 1.17 | 0.05 | 36 | 20111122 |
| VM28-234 | 154 | <i>P. obliquiloculata</i> | | 1 | 0.98 | 0.28 | 27 | 20111122 |
| VM28-234 | 158 | <i>P. obliquiloculata</i> | | 1 | 0.80 | -0.50 | 30 | 20111122 |
| VM28-234 | 164 | <i>P. obliquiloculata</i> | | 1 | 1.01 | -0.19 | 28 | 20111122 |
| VM28-234 | 126 | <i>P. obliquiloculata</i> | | 1 | 1.63 | 0.50 | 39 | 20111214 |
| VM28-234 | 146 | <i>P. obliquiloculata</i> | | 1 | 0.70 | -0.26 | 25 | 20111214 |
| VM28-234 | 162 | <i>P. obliquiloculata</i> | | 1 | 0.93 | 0.30 | 28 | 20111214 |
| VM28-229 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -1.22 | 127 | 20100426 |
| VM28-229 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -0.11 | 85 | 20100426 |
| VM28-229 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | -0.95 | 154 | 20100426 |
| VM28-229 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | -1.01 | 93 | 20100426 |
| VM28-229 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.67 | -1.05 | 128 | 20100426 |
| VM28-229 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.35 | -1.33 | 103 | 20100426 |
| VM28-229 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.48 | -0.07 | 145 | 20100426 |

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| VM28-229 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | -0.78 | 128 | 20100426 |
| VM28-229 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | -0.63 | 130 | 20100426 |
| VM28-229 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | 0.21 | 107 | 20100426 |
| VM28-229 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.23 | -1.17 | 133 | 20100514 |
| VM28-229 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | 0.38 | 123 | 20100514 |
| VM28-229 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | -0.51 | 105 | 20100514 |
| VM28-229 | 14 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | -0.03 | 85 | 20100514 |
| VM28-229 | 14 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.90 | 84 | 20100514 |
| VM28-229 | 14 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 1.87 | 108 | 20100514 |
| VM28-229 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 0.28 | 109 | 20100514 |
| VM28-229 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | 0.63 | 130 | 20100514 |
| VM28-229 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.77 | 0.13 | 128 | 20100514 |
| VM28-229 | 10 | <i>G. tumida</i> | 425-500 | 1 | 1.54 | 0.24 | 179 | 20100514 |
| VM28-229 | 10 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | -0.84 | 126 | 20100514 |
| VM28-229 | 10 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -1.21 | 128 | 20100514 |
| VM28-229 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.61 | 0.20 | 141 | 20100514 |

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| VM28-229 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | -0.41 | 123 | 20100514 |
| VM28-229 | 8 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | -0.85 | 93 | 20100514 |
| VM28-229 | 6 | <i>G. tumida</i> | 425-500 | 1 | 1.75 | 0.17 | 149 | 20100514 |
| VM28-229 | 6 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | -0.85 | 145 | 20100514 |
| VM28-229 | 6 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | -1.09 | 133 | 20100514 |
| VM28-229 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.83 | 122 | 20100514 |
| VM28-229 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | -0.99 | 130 | 20100514 |
| VM28-229 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.43 | -0.55 | 152 | 20100514 |
| VM28-229 | 2 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | -1.03 | 135 | 20100514 |
| VM28-229 | 2 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | -0.90 | 131 | 20100514 |
| VM28-229 | 2 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -1.04 | 123 | 20100514 |
| VM28-229 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.27 | 0.24 | 108 | 20100515 |
| VM28-229 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | 0.42 | 115 | 20100515 |
| VM28-229 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | 0.07 | 138 | 20100515 |
| VM28-229 | 30 | <i>G. tumida</i> | 425-500 | 1 | 2.27 | 0.28 | 121 | 20100515 |
| VM28-229 | 30 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | 0.29 | 116 | 20100515 |

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| VM28-229 | 30 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | 0.61 | 106 | | 20100515 |
| VM28-229 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | 0.44 | 113 | LGM | 20100515 |
| VM28-229 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.23 | 0.58 | 98 | LGM | 20100515 |
| VM28-229 | 26 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | 0.99 | 122 | LGM | 20100515 |
| VM28-229 | 26 | <i>G. tumida</i> | 425-500 | 1 | 2.42 | 0.71 | 110 | LGM | 20100515 |
| VM28-229 | 26 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | 0.18 | 132 | LGM | 20100515 |
| VM28-229 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.60 | 110 | | 20100515 |
| VM28-229 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | 0.87 | 105 | | 20100515 |
| VM28-229 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.67 | 114 | | 20100515 |
| VM28-229 | 22 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | 1.05 | 114 | | 20100515 |
| VM28-229 | 22 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | 0.72 | 112 | | 20100515 |
| VM28-229 | 22 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | 0.81 | 159 | | 20100515 |
| VM28-229 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | 0.84 | 119 | | 20100515 |
| VM28-229 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | 0.55 | 109 | | 20100515 |
| VM28-229 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | 0.82 | 124 | | 20100515 |
| VM28-229 | 18 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | 1.63 | 118 | | 20100515 |

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| VM28-229 | 18 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | 0.50 | 150 | 20100515 |
| VM28-229 | 18 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.61 | 134 | 20100515 |
| VM28-229 | 34 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | 0.62 | 115 | 20100517 |
| VM28-229 | 34 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | 0.19 | 120 | 20100517 |
| VM28-229 | 34 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | 0.48 | 127 | 20100517 |
| VM28-229 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | 0.51 | 115 | 20100517 |
| VM28-229 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | 0.23 | 116 | 20100517 |
| VM28-229 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | 0.18 | 93 | 20100517 |
| VM28-229 | 38 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.10 | 117 | 20100517 |
| VM28-229 | 38 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.48 | 126 | 20100517 |
| VM28-229 | 38 | <i>G. tumida</i> | 425-500 | 1 | 2.23 | -0.34 | 110 | 20100517 |
| VM28-229 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | 0.41 | 125 | 20100520 |
| VM28-229 | 42 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.27 | 98 | 20100520 |
| VM28-229 | 42 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.47 | 158 | 20100520 |
| VM28-229 | 42 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | 0.34 | 145 | 20100520 |
| VM28-229 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.11 | 149 | 20100520 |

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| VM28-229 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.31 | 0.67 | 114 | 20100520 |
| VM28-229 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | 0.17 | 125 | 20100520 |
| VM28-229 | 54 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.51 | 128 | 20100520 |
| VM28-229 | 54 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | 0.04 | 128 | 20100520 |
| VM28-229 | 54 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | 0.58 | 123 | 20100520 |
| VM28-229 | 52 | <i>G. tumida</i> | 425-500 | 1 | 1.62 | -0.20 | 129 | 20100520 |
| VM28-229 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | -0.16 | 124 | 20100520 |
| VM28-229 | 50 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | 0.18 | 146 | 20100520 |
| VM28-229 | 50 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.02 | 106 | 20100520 |
| VM28-229 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | -0.22 | 112 | 20100520 |
| VM28-229 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | 0.42 | 137 | 20100520 |
| VM28-229 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | -0.27 | 132 | 20100520 |
| VM28-229 | 46 | <i>G. tumida</i> | 425-500 | 1 | 2.45 | 0.41 | 113 | 20100520 |
| VM28-229 | 46 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | 0.81 | 163 | 20100520 |
| VM28-229 | 46 | <i>G. tumida</i> | 425-500 | 1 | 1.69 | 0.39 | 138 | 20100520 |
| VM28-229 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.02 | 139 | 20100522 |

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| VM28-229 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | 0.80 | 143 | 20100522 |
| VM28-229 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | 0.25 | 143 | 20100522 |
| VM28-229 | 58 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | 0.07 | 135 | 20100522 |
| VM28-229 | 58 | <i>G. tumida</i> | 425-500 | 1 | 1.54 | 0.00 | 146 | 20100522 |
| VM28-229 | 58 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | 0.28 | 147 | 20100522 |
| VM28-229 | 60 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | 0.01 | 128 | 20100522 |
| VM28-229 | 60 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | -0.02 | 123 | 20100522 |
| VM28-229 | 60 | <i>G. tumida</i> | 425-500 | 1 | 2.58 | -0.31 | 138 | 20100522 |
| VM28-229 | 62 | <i>G. tumida</i> | 425-500 | 1 | 0.86 | -0.34 | 125 | 20100522 |
| VM28-229 | 62 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | 0.39 | 104 | 20100522 |
| VM28-229 | 62 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.05 | 164 | 20100522 |
| VM28-229 | 64 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.05 | 155 | 20100522 |
| VM28-229 | 64 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.07 | 117 | 20100522 |
| VM28-229 | 64 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | 0.81 | 102 | 20100522 |
| VM28-229 | 66 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -0.26 | 131 | 20100522 |
| VM28-229 | 66 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | 0.32 | 126 | 20100522 |

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| VM28-229 | 66 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -0.64 | 136 | | 20100522 |
| VM28-229 | 68 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | 0.37 | 149 | | 20100522 |
| VM28-229 | 68 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -0.12 | 106 | | 20100522 |
| VM28-229 | 68 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | 0.38 | 124 | | 20100522 |
| VM28-229 | 70 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | -0.34 | 123 | | 20100522 |
| VM28-229 | 70 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | 0.02 | 128 | | 20100522 |
| VM28-229 | 70 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.11 | 154 | | 20100522 |
| VM28-229 | 28 | <i>G. tumida</i> | 355-425 | 1 | 1.84 | 1.13 | 51 | LGM | 20110504 |
| VM28-229 | 28 | <i>G. tumida</i> | 355-425 | 1 | 2.09 | 0.93 | 52 | LGM | 20110504 |
| VM28-229 | 28 | <i>G. tumida</i> | 355-425 | 1 | 2.18 | 0.36 | 61 | LGM | 20110504 |
| VM28-229 | 28 | <i>G. tumida</i> | 355-425 | 1 | 2.35 | 0.27 | 61 | LGM | 20110504 |
| VM28-229 | 28 | <i>G. tumida</i> | 355-425 | 1 | 2.04 | 0.87 | 60 | LGM | 20110504 |
| VM28-229 | 28 | <i>G. tumida</i> | 355-425 | 1 | 2.29 | 0.34 | 73 | LGM | 20110504 |
| VM28-229 | 28 | <i>G. tumida</i> | 355-425 | 1 | 1.82 | 0.45 | 69 | LGM | 20110504 |
| VM28-229 | 28 | <i>G. tumida</i> | 355-425 | 1 | 1.96 | 1.16 | 71 | LGM | 20110504 |
| VM28-229 | 30 | <i>G. tumida</i> | 355-425 | 1 | 2.19 | 0.68 | 72 | | 20110504 |

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| VM28-229 | 30 | <i>G. tumida</i> | 355-425 | 1 | 2.08 | 0.59 | 68 | 20110504 |
| VM28-229 | 30 | <i>G. tumida</i> | 355-425 | 1 | 1.98 | 0.94 | 51 | 20110504 |
| VM28-229 | 30 | <i>G. tumida</i> | 355-425 | 1 | 2.32 | 0.27 | 85 | 20110504 |
| VM28-229 | 30 | <i>G. tumida</i> | 355-425 | 1 | 2.29 | 0.29 | 61 | 20110504 |
| VM28-229 | 30 | <i>G. tumida</i> | 355-425 | 1 | 2.05 | 0.48 | 70 | 20110504 |
| VM28-229 | 30 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | 0.51 | 115 | 20110504 |
| VM28-229 | 30 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.68 | 113 | 20110504 |
| VM28-229 | 30 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | 0.18 | 107 | 20110504 |
| VM28-229 | 0 | <i>G. ruber</i> | 250-355 | 10 | 1.21 | -1.72 | 121 | 20100517 |
| VM28-229 | 2 | <i>G. ruber</i> | 250-355 | 10 | 1.02 | -1.88 | 115 | 20100517 |
| VM28-229 | 4 | <i>G. ruber</i> | 250-355 | 10 | 1.04 | -1.90 | 117 | 20100517 |
| VM28-229 | 6 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -1.83 | 131 | 20100517 |
| VM28-229 | 8 | <i>G. ruber</i> | 250-355 | 10 | 1.04 | -1.65 | 118 | 20100517 |
| VM28-229 | 10 | <i>G. ruber</i> | 250-355 | 10 | 1.39 | -1.87 | 123 | 20100517 |
| VM28-229 | 12 | <i>G. ruber</i> | 250-355 | 10 | 1.22 | -1.83 | 126 | 20100517 |
| VM28-229 | 14 | <i>G. ruber</i> | 250-355 | 10 | 0.86 | -1.72 | 116 | 20100517 |

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|----------|----|-----------------|---------|----|------|-------|-----|-----|----------|
| VM28-229 | 16 | <i>G. ruber</i> | 250-355 | 10 | 0.67 | -1.72 | 99 | | 20100517 |
| VM28-229 | 18 | <i>G. ruber</i> | 250-355 | 10 | 1.05 | -1.78 | 98 | | 20100517 |
| VM28-229 | 20 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -1.81 | 123 | | 20100517 |
| VM28-229 | 22 | <i>G. ruber</i> | 250-355 | 10 | 1.07 | -1.39 | 101 | | 20100517 |
| VM28-229 | 24 | <i>G. ruber</i> | 250-355 | 10 | 1.40 | -1.37 | 120 | | 20100517 |
| VM28-229 | 26 | <i>G. ruber</i> | 250-355 | 10 | 1.17 | -1.58 | 91 | LGM | 20100517 |
| VM28-229 | 28 | <i>G. ruber</i> | 250-355 | 10 | 1.12 | -1.09 | 101 | LGM | 20100517 |
| VM28-229 | 30 | <i>G. ruber</i> | 250-355 | 10 | 1.02 | -1.25 | 91 | | 20100823 |
| VM28-229 | 32 | <i>G. ruber</i> | 250-355 | 10 | 1.36 | -1.28 | 90 | | 20100823 |
| VM28-229 | 34 | <i>G. ruber</i> | 250-355 | 10 | 0.95 | -1.51 | 90 | | 20100823 |
| VM28-229 | 36 | <i>G. ruber</i> | 250-355 | 10 | 1.34 | -1.52 | 103 | | 20100823 |
| VM28-229 | 38 | <i>G. ruber</i> | 250-355 | 10 | 0.85 | -1.93 | 101 | | 20100823 |
| VM28-229 | 40 | <i>G. ruber</i> | 250-355 | 10 | 1.28 | -1.14 | 108 | | 20100823 |
| VM28-229 | 72 | <i>G. ruber</i> | 250-355 | 10 | 1.36 | -1.65 | 93 | | 20101209 |
| VM28-229 | 72 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -1.69 | 100 | | 20101209 |
| VM28-229 | 74 | <i>G. ruber</i> | 250-355 | 10 | 1.49 | -1.68 | 111 | | 20101209 |

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|----------|----|-----------------|---------|----|------|-------|-----|----------|
| VM28-229 | 74 | <i>G. ruber</i> | 250-355 | 10 | 1.41 | -1.58 | 98 | 20101209 |
| VM28-229 | 76 | <i>G. ruber</i> | 250-355 | 10 | 0.95 | -1.66 | 92 | 20101209 |
| VM28-229 | 76 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -1.70 | 105 | 20101209 |
| VM28-229 | 78 | <i>G. ruber</i> | 250-355 | 10 | 1.11 | -1.76 | 91 | 20101209 |
| VM28-229 | 78 | <i>G. ruber</i> | 250-355 | 10 | 0.82 | -1.85 | 100 | 20101209 |
| VM28-229 | 80 | <i>G. ruber</i> | 250-355 | 10 | 1.13 | -1.75 | 104 | 20101209 |
| VM28-229 | 80 | <i>G. ruber</i> | 250-355 | 10 | 1.11 | -1.63 | 119 | 20101209 |
| VM28-229 | 82 | <i>G. ruber</i> | 250-355 | 10 | 1.21 | -1.74 | 90 | 20101209 |
| VM28-229 | 82 | <i>G. ruber</i> | 250-355 | 10 | 0.95 | -1.68 | 122 | 20101209 |
| VM28-229 | 84 | <i>G. ruber</i> | 250-355 | 10 | 1.37 | -1.79 | 105 | 20101209 |
| VM28-229 | 84 | <i>G. ruber</i> | 250-355 | 10 | 1.15 | -1.69 | 107 | 20101209 |
| VM28-229 | 86 | <i>G. ruber</i> | 250-355 | 10 | 1.11 | -1.69 | 98 | 20101209 |
| VM28-229 | 86 | <i>G. ruber</i> | 250-355 | 10 | 0.92 | -1.80 | 92 | 20101209 |
| VM28-229 | 88 | <i>G. ruber</i> | 250-355 | 10 | 0.73 | -1.73 | 124 | 20101209 |
| VM28-229 | 88 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -1.63 | 125 | 20101209 |
| VM28-229 | 90 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -1.60 | 122 | 20101209 |

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|----------|----|-----------------|---------|----|------|-------|-----|----------|
| VM28-229 | 90 | <i>G. ruber</i> | 250-355 | 10 | 1.05 | -1.67 | 127 | 20101209 |
| VM28-229 | 92 | <i>G. ruber</i> | 250-355 | 10 | 1.04 | -1.74 | 119 | 20101209 |
| VM28-229 | 92 | <i>G. ruber</i> | 250-355 | 10 | 0.99 | -1.72 | 142 | 20101209 |
| VM28-229 | 94 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -1.61 | 125 | 20101209 |
| VM28-229 | 94 | <i>G. ruber</i> | 250-355 | 10 | 1.10 | -1.74 | 112 | 20101209 |
| VM28-229 | 96 | <i>G. ruber</i> | 250-355 | 10 | 1.04 | -1.66 | 128 | 20101209 |
| VM28-229 | 98 | <i>G. ruber</i> | 250-355 | 10 | 0.97 | -1.73 | 129 | 20101209 |
| VM28-229 | 42 | <i>G. ruber</i> | 250-355 | 10 | 1.10 | -1.57 | 98 | 20101210 |
| VM28-229 | 42 | <i>G. ruber</i> | 250-355 | 10 | 1.08 | -1.34 | 91 | 20101210 |
| VM28-229 | 44 | <i>G. ruber</i> | 250-355 | 10 | 1.22 | -1.27 | 86 | 20101210 |
| VM28-229 | 44 | <i>G. ruber</i> | 250-355 | 10 | 0.89 | -1.07 | 107 | 20101210 |
| VM28-229 | 46 | <i>G. ruber</i> | 250-355 | 10 | 0.93 | -1.48 | 89 | 20101210 |
| VM28-229 | 46 | <i>G. ruber</i> | 250-355 | 10 | 1.35 | -1.43 | 99 | 20101210 |
| VM28-229 | 48 | <i>G. ruber</i> | 250-355 | 10 | 1.13 | -1.21 | 86 | 20101210 |
| VM28-229 | 48 | <i>G. ruber</i> | 250-355 | 10 | 1.57 | -1.15 | 90 | 20101210 |
| VM28-229 | 50 | <i>G. ruber</i> | 250-355 | 10 | 1.39 | -1.41 | 103 | 20101210 |

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|----------|----|-----------------|---------|----|------|-------|-----|----------|
| VM28-229 | 50 | <i>G. ruber</i> | 250-355 | 10 | 1.35 | -1.35 | 86 | 20101210 |
| VM28-229 | 52 | <i>G. ruber</i> | 250-355 | 10 | 1.13 | -1.26 | 91 | 20101210 |
| VM28-229 | 52 | <i>G. ruber</i> | 250-355 | 10 | 1.24 | -1.42 | 85 | 20101210 |
| VM28-229 | 54 | <i>G. ruber</i> | 250-355 | 10 | 1.10 | -1.54 | 90 | 20101210 |
| VM28-229 | 54 | <i>G. ruber</i> | 250-355 | 10 | 1.31 | -1.38 | 84 | 20101210 |
| VM28-229 | 56 | <i>G. ruber</i> | 250-355 | 10 | 1.33 | -1.47 | 108 | 20101210 |
| VM28-229 | 56 | <i>G. ruber</i> | 250-355 | 10 | 0.91 | -1.55 | 99 | 20101210 |
| VM28-229 | 58 | <i>G. ruber</i> | 250-355 | 10 | 0.90 | -1.39 | 92 | 20101210 |
| VM28-229 | 58 | <i>G. ruber</i> | 250-355 | 10 | 1.05 | -1.48 | 86 | 20101210 |
| VM28-229 | 60 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -1.41 | 89 | 20101210 |
| VM28-229 | 60 | <i>G. ruber</i> | 250-355 | 10 | 1.39 | -1.38 | 91 | 20101210 |
| VM28-229 | 62 | <i>G. ruber</i> | 250-355 | 10 | 1.61 | -1.36 | 99 | 20101210 |
| VM28-229 | 62 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -1.31 | 104 | 20101210 |
| VM28-229 | 64 | <i>G. ruber</i> | 250-355 | 10 | 1.44 | -1.52 | 97 | 20101210 |
| VM28-229 | 64 | <i>G. ruber</i> | 250-355 | 10 | 1.35 | -1.39 | 102 | 20101210 |
| VM28-229 | 66 | <i>G. ruber</i> | 250-355 | 10 | 1.05 | -1.58 | 100 | 20101210 |

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| VM28-229 | 66 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -1.47 | 107 | 20101210 |
| VM28-229 | 68 | <i>G. ruber</i> | 250-355 | 10 | 1.02 | -1.63 | 90 | 20101210 |
| VM28-229 | 68 | <i>G. ruber</i> | 250-355 | 10 | 1.42 | -1.51 | 113 | 20101210 |
| VM28-229 | 70 | <i>G. ruber</i> | 250-355 | 10 | 1.08 | -1.67 | 92 | 20101210 |
| VM28-229 | 70 | <i>G. ruber</i> | 250-355 | 10 | 1.38 | -1.62 | 113 | 20101210 |
| VM28-229 | 212 | <i>G. ruber</i> | 250-355 | 10 | 1.31 | -1.50 | 108 | 20110422 |
| VM28-229 | 216 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -1.42 | 112 | 20110422 |
| VM28-229 | 112 | <i>G. ruber</i> | 250-355 | 10 | 0.99 | -1.63 | 122 | 20110422 |
| VM28-229 | 112 | <i>G. ruber</i> | 250-355 | 10 | 0.84 | -1.65 | 97 | 20110422 |
| VM28-229 | 148 | <i>G. ruber</i> | 250-355 | 10 | 0.47 | -1.33 | 109 | 20110422 |
| VM28-229 | 148 | <i>G. ruber</i> | 250-355 | 10 | 0.67 | -1.35 | 105 | 20110422 |
| VM28-229 | 152 | <i>G. ruber</i> | 250-355 | 10 | 0.45 | -1.15 | 119 | 20110422 |
| VM28-229 | 152 | <i>G. ruber</i> | 250-355 | 10 | 0.57 | -0.94 | 97 | 20110422 |
| VM28-229 | 156 | <i>G. ruber</i> | 250-355 | 10 | 0.83 | -1.48 | 136 | 20110422 |
| VM28-229 | 156 | <i>G. ruber</i> | 250-355 | 10 | 0.49 | -1.13 | 112 | 20110422 |
| VM28-229 | 160 | <i>G. ruber</i> | 250-355 | 10 | 0.79 | -0.99 | 126 | 20110422 |

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| VM28-229 | 160 | <i>G. ruber</i> | 250-355 | 10 | 0.59 | -1.01 | 97 | 20110422 |
| VM28-229 | 164 | <i>G. ruber</i> | 250-355 | 10 | 1.02 | -0.99 | 124 | 20110422 |
| VM28-229 | 164 | <i>G. ruber</i> | 250-355 | 10 | 1.06 | -1.07 | 118 | 20110422 |
| VM28-229 | 168 | <i>G. ruber</i> | 250-355 | 10 | 0.87 | -1.25 | 119 | 20110422 |
| VM28-229 | 168 | <i>G. ruber</i> | 250-355 | 10 | 1.04 | -1.11 | 104 | 20110422 |
| VM28-229 | 172 | <i>G. ruber</i> | 250-355 | 10 | 1.09 | -1.31 | 106 | 20110422 |
| VM28-229 | 172 | <i>G. ruber</i> | 250-355 | 10 | 0.79 | -1.43 | 100 | 20110422 |
| VM28-229 | 176 | <i>G. ruber</i> | 250-355 | 10 | 1.02 | -1.24 | 121 | 20110422 |
| VM28-229 | 176 | <i>G. ruber</i> | 250-355 | 10 | 0.92 | -1.11 | 89 | 20110422 |
| VM28-229 | 180 | <i>G. ruber</i> | 250-355 | 10 | 0.97 | -1.24 | 137 | 20110422 |
| VM28-229 | 180 | <i>G. ruber</i> | 250-355 | 10 | 0.95 | -1.16 | 96 | 20110422 |
| VM28-229 | 184 | <i>G. ruber</i> | 250-355 | 10 | 1.06 | -1.07 | 122 | 20110422 |
| VM28-229 | 184 | <i>G. ruber</i> | 250-355 | 10 | 1.10 | -1.16 | 86 | 20110422 |
| VM28-229 | 188 | <i>G. ruber</i> | 250-355 | 10 | 0.76 | -0.95 | 114 | 20110422 |
| VM28-229 | 188 | <i>G. ruber</i> | 250-355 | 10 | 0.98 | -1.10 | 110 | 20110422 |
| VM28-229 | 192 | <i>G. ruber</i> | 250-355 | 10 | 0.64 | -1.20 | 100 | 20110422 |

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| VM28-229 | 196 | <i>G. ruber</i> | 250-355 | 10 | 0.54 | -1.42 | 93 | 20110422 |
| VM28-229 | 196 | <i>G. ruber</i> | 250-355 | 10 | 0.88 | -1.37 | 99 | 20110422 |
| VM28-229 | 200 | <i>G. ruber</i> | 250-355 | 10 | 1.06 | -1.53 | 92 | 20110422 |
| VM28-229 | 200 | <i>G. ruber</i> | 250-355 | 10 | 0.84 | -1.41 | 96 | 20110422 |
| VM28-229 | 204 | <i>G. ruber</i> | 250-355 | 10 | 1.27 | -1.53 | 123 | 20110422 |
| VM28-229 | 204 | <i>G. ruber</i> | 250-355 | 10 | 1.06 | -1.56 | 102 | 20110422 |
| VM28-229 | 208 | <i>G. ruber</i> | 250-355 | 10 | 0.65 | -1.49 | 110 | 20110422 |
| VM28-229 | 208 | <i>G. ruber</i> | 250-355 | 10 | 1.19 | -1.38 | 95 | 20110422 |
| VM28-229 | 212 | <i>G. ruber</i> | 250-355 | 10 | 1.01 | -1.72 | 105 | 20110422 |
| VM28-229 | 44 | <i>G. ruber</i> | 250-355 | 10 | 1.45 | -1.29 | 105 | 20110909 |
| VM28-229 | 44 | <i>G. ruber</i> | 250-355 | 10 | 1.32 | -1.30 | 89 | 20110909 |
| VM28-229 | 48 | <i>G. ruber</i> | 250-355 | 10 | 1.20 | -1.40 | 80 | 20110909 |
| VM28-229 | 46 | <i>G. ruber</i> | 250-355 | 9 | 0.99 | -1.32 | 79 | 20110909 |
| VM28-229 | 50 | <i>G. ruber</i> | 250-355 | 10 | 1.10 | -1.52 | 92 | 20110909 |
| VM28-229 | 50 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -1.37 | 80 | 20110909 |
| VM28-229 | 52 | <i>G. ruber</i> | 250-355 | 10 | 1.64 | -1.51 | 103 | 20110909 |

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| VM28-229 | 52 | <i>G. ruber</i> | 250-355 | 10 | 1.15 | -1.31 | 99 | 20110909 |
| VM28-229 | 54 | <i>G. ruber</i> | 250-355 | 10 | 0.98 | -1.45 | 105 | 20110909 |
| VM28-229 | 54 | <i>G. ruber</i> | 250-355 | 10 | 1.09 | -1.27 | 91 | 20110909 |
| VM28-229 | 56 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -1.33 | 103 | 20110909 |
| VM28-229 | 56 | <i>G. ruber</i> | 250-355 | 10 | 1.03 | -1.54 | 92 | 20110909 |
| VM28-229 | 58 | <i>G. ruber</i> | 250-355 | 10 | 1.22 | -1.36 | 108 | 20110909 |
| VM28-229 | 58 | <i>G. ruber</i> | 250-355 | 10 | 0.91 | -1.51 | 91 | 20110909 |
| VM28-229 | 60 | <i>G. ruber</i> | 250-355 | 10 | 1.30 | -1.50 | 97 | 20110909 |
| VM28-229 | 60 | <i>G. ruber</i> | 250-355 | 10 | 1.38 | -1.31 | 82 | 20110909 |
| VM28-229 | 62 | <i>G. ruber</i> | 250-355 | 10 | 1.14 | -1.39 | 92 | 20110909 |
| VM28-229 | 62 | <i>G. ruber</i> | 250-355 | 10 | 1.10 | -1.42 | 89 | 20110909 |
| VM28-229 | 64 | <i>G. ruber</i> | 250-355 | 10 | 1.35 | -1.48 | 91 | 20110909 |
| VM28-229 | 64 | <i>G. ruber</i> | 250-355 | 10 | 1.21 | -1.66 | 92 | 20110909 |
| VM28-229 | 66 | <i>G. ruber</i> | 250-355 | 10 | 1.26 | -1.45 | 98 | 20110909 |
| VM28-229 | 66 | <i>G. ruber</i> | 250-355 | 9 | 1.43 | -1.45 | 104 | 20110909 |
| VM28-229 | 68 | <i>G. ruber</i> | 250-355 | 10 | 1.31 | -1.52 | 91 | 20110909 |

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|----------|-----|---------------------------|---------|----|------|-------|-----|----------|
| VM28-229 | 68 | <i>G. ruber</i> | 250-355 | 10 | 1.11 | -1.49 | 117 | 20110909 |
| VM28-229 | 70 | <i>G. ruber</i> | 250-355 | 10 | 1.08 | -1.54 | 105 | 20110909 |
| VM28-229 | 70 | <i>G. ruber</i> | 250-355 | 10 | 1.41 | -1.57 | 99 | 20110909 |
| VM28-229 | 112 | <i>G. ruber</i> | 250-355 | 10 | 1.21 | -1.72 | 109 | 20111216 |
| VM28-229 | 128 | <i>G. ruber</i> | 250-355 | 10 | 0.89 | -1.69 | 102 | 20111216 |
| VM28-229 | 148 | <i>G. ruber</i> | 250-355 | 10 | 0.59 | -1.18 | 105 | 20111216 |
| VM28-229 | 26 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.65 | 0.47 | 36 | 20110620 |
| VM28-229 | 26 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.43 | -0.32 | 54 | 20110620 |
| VM28-229 | 26 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.31 | -0.58 | 36 | 20110620 |
| VM28-229 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.60 | 0.23 | 34 | 20110620 |
| VM28-229 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.64 | -0.37 | 38 | 20110620 |
| VM28-229 | 26 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.55 | 0.09 | 30 | 20111121 |
| VM28-229 | 26 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.60 | -0.12 | 32 | 20111121 |
| VM28-229 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.47 | 0.43 | 25 | 20111121 |
| VM28-229 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.98 | -0.37 | 31 | 20111121 |
| VM28-227 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | -0.58 | 94 | 20090403 |

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| VM28-227 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | -0.34 | 136 | 20090403 |
| VM28-227 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | -0.45 | 106 | 20090403 |
| VM28-227 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | -0.72 | 140 | 20090403 |
| VM28-227 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | -0.04 | 136 | 20090403 |
| VM28-227 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | -0.90 | 116 | 20090403 |
| VM28-227 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | -0.52 | 97 | 20090403 |
| VM28-227 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | -0.42 | 154 | 20090403 |
| VM28-227 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.25 | 0.67 | 98 | 20090403 |
| VM28-227 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | 0.49 | 104 | 20090403 |
| VM28-227 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | -0.99 | 154 | 20090403 |
| VM28-227 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | -0.57 | 101 | 20090403 |
| VM28-227 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.50 | 0.72 | 135 | 20090408 |
| VM28-227 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | 0.67 | 105 | 20090408 |
| VM28-227 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | 0.28 | 122 | 20090408 |
| VM28-227 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | 0.65 | 107 | 20090408 |
| VM28-227 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.31 | 0.15 | 142 | 20090408 |

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| VM28-227 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | 0.27 | 121 | | 20090408 |
| VM28-227 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | 0.79 | 132 | | 20090408 |
| VM28-227 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.40 | 0.17 | 117 | | 20090408 |
| VM28-227 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.47 | 123 | | 20090408 |
| VM28-227 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | 1.00 | 129 | | 20090408 |
| VM28-227 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.55 | 137 | | 20090408 |
| VM28-227 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.71 | 110 | | 20110510 |
| VM28-227 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | 0.54 | 124 | | 20110510 |
| VM28-227 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | 1.09 | 105 | | 20110510 |
| VM28-227 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | 0.20 | 142 | | 20110510 |
| VM28-227 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | 0.98 | 121 | | 20110510 |
| VM28-227 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.39 | 0.24 | 102 | | 20110510 |
| VM28-227 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | 0.70 | 140 | | 20110510 |
| VM28-227 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.49 | -0.14 | 125 | | 20110510 |
| VM28-227 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | 0.85 | 92 | | 20110510 |
| VM28-227 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | 0.51 | 91 | LGM | 20110606 |

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| VM28-227 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | 1.09 | 114 | LGM | 20110606 |
| VM28-227 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | 0.27 | 117 | LGM | 20110606 |
| VM28-227 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.43 | 93 | LGM | 20110606 |
| VM28-227 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.97 | 100 | LGM | 20110606 |
| VM28-227 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 1.19 | 93 | LGM | 20110606 |
| VM28-227 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | 1.52 | 112 | LGM | 20110606 |
| VM28-227 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | 1.02 | 124 | LGM | 20110606 |
| VM28-227 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.30 | 0.22 | 146 | LGM | 20110810 |
| VM28-227 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | 1.29 | 130 | LGM | 20110810 |
| VM28-227 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | 0.29 | 124 | LGM | 20110810 |
| VM28-227 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.28 | 0.68 | 127 | LGM | 20110810 |
| VM28-227 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | 0.90 | 144 | LGM | 20110810 |
| VM28-227 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | 0.61 | 145 | LGM | 20110810 |
| VM28-227 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.80 | 135 | LGM | 20110810 |
| VM28-227 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | 0.75 | 134 | LGM | 20110810 |
| VM28-227 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | 0.94 | 123 | LGM | 20110810 |

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|----------|----|------------------|---------|----|------|-------|-----|-----|----------|
| VM28-227 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | -0.07 | 129 | LGM | 20110810 |
| VM28-227 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.77 | 124 | LGM | 20110810 |
| VM28-227 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.37 | 0.39 | 150 | LGM | 20110810 |
| VM28-227 | 0 | <i>G. ruber</i> | 250-355 | 10 | 0.78 | -1.57 | 129 | | 20090403 |
| VM28-227 | 4 | <i>G. ruber</i> | 250-355 | 10 | 0.91 | -1.59 | 122 | | 20090403 |
| VM28-227 | 8 | <i>G. ruber</i> | 250-355 | 10 | 0.95 | -1.69 | 132 | | 20090403 |
| VM28-227 | 12 | <i>G. ruber</i> | 250-355 | 10 | 0.50 | -1.73 | 123 | | 20090403 |
| VM28-227 | 16 | <i>G. ruber</i> | 250-355 | 10 | 0.90 | -1.53 | 140 | | 20090403 |
| VM28-227 | 20 | <i>G. ruber</i> | 250-355 | 10 | 0.98 | -1.43 | 128 | | 20090403 |
| VM28-227 | 24 | <i>G. ruber</i> | 250-355 | 10 | 0.76 | -1.55 | 102 | | 20090403 |
| VM28-227 | 28 | <i>G. ruber</i> | 250-355 | 10 | 0.90 | -1.34 | 129 | LGM | 20090403 |
| VM28-227 | 32 | <i>G. ruber</i> | 250-355 | 10 | 0.76 | -0.95 | 96 | | 20090403 |
| VM28-227 | 36 | <i>G. ruber</i> | 250-355 | 10 | 1.06 | -0.85 | 111 | | 20090403 |
| VM28-227 | 40 | <i>G. ruber</i> | 250-355 | 10 | 0.74 | -1.24 | 109 | | 20090403 |
| VM28-227 | 44 | <i>G. ruber</i> | 250-355 | 10 | 0.93 | -1.11 | 97 | | 20090403 |
| VM28-227 | 48 | <i>G. ruber</i> | 250-355 | 10 | 0.84 | -1.26 | 117 | | 20090403 |

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| VM28-227 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.01 | -0.55 | 49 | 20110620 |
| VM28-227 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.48 | 0.09 | 46 | 20110620 |
| VM28-227 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.24 | 0.30 | 37 | 20110620 |
| VM28-227 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.52 | 0.15 | 33 | 20111121 |
| VM28-227 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.58 | 0.13 | 39 | 20111121 |
| VM28-227 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.97 | 0.32 | 32 | 20111121 |
| VM28-227 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 0.98 | 0.15 | 29 | 20111121 |
| VM28-227 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.21 | 0.03 | 28 | 20111121 |
| VM28-227 | 28 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.19 | -0.11 | 34 | 20111121 |
| RC12-118 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | -0.84 | 154 | 20100423 |
| RC12-118 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -1.11 | 123 | 20100423 |
| RC12-118 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | -0.74 | 126 | 20100423 |
| RC12-118 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.82 | 0.28 | 145 | 20100528 |
| RC12-118 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.37 | 0.09 | 111 | 20100528 |
| RC12-118 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | 0.51 | 124 | 20100528 |
| RC12-118 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.36 | 0.02 | 129 | 20100528 |

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| RC12-118 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | 0.43 | 156 | 20100528 |
| RC12-118 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.33 | 0.25 | 130 | 20100528 |
| RC12-118 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | -0.09 | 154 | 20100528 |
| RC12-118 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | 0.05 | 166 | 20100528 |
| RC12-118 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.26 | 0.31 | 120 | 20100528 |
| RC12-118 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | 0.80 | 110 | 20100528 |
| RC12-118 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.25 | 0.96 | 112 | 20100528 |
| RC12-118 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | 0.07 | 151 | 20100528 |
| RC12-118 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.38 | 0.02 | 155 | 20100528 |
| RC12-118 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | 0.59 | 125 | 20100528 |
| RC12-118 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.32 | 0.77 | 163 | 20100528 |
| RC12-118 | 56 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | -0.20 | 134 | 20100528 |
| RC12-118 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.28 | 0.28 | 154 | 20100528 |
| RC12-118 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | 0.76 | 107 | 20100609 |
| RC12-118 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.32 | 0.38 | 119 | 20100609 |
| RC12-118 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.33 | -0.04 | 112 | 20100609 |

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| RC12-118 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.40 | 0.74 | 117 | 20100609 |
| RC12-118 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 1.26 | 130 | 20100609 |
| RC12-118 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | 1.31 | 109 | 20100609 |
| RC12-118 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.68 | 0.51 | 125 | 20100609 |
| RC12-118 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | 0.25 | 159 | 20100609 |
| RC12-118 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.72 | 0.67 | 121 | 20100609 |
| RC12-118 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.42 | 0.25 | 124 | 20100609 |
| RC12-118 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.31 | 0.54 | 121 | 20100609 |
| RC12-118 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | 0.58 | 157 | 20100609 |
| RC12-118 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.28 | 0.15 | 156 | 20100609 |
| RC12-118 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | 0.19 | 128 | 20100609 |
| RC12-118 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.30 | 0.58 | 142 | 20100609 |
| RC12-118 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | 0.36 | 131 | 20100609 |
| RC12-118 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | 0.38 | 158 | 20100609 |
| RC12-118 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | 1.17 | 158 | 20100609 |
| RC12-118 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.23 | 0.20 | 106 | 20100609 |

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| RC12-118 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.50 | 0.11 | 162 | 20100609 |
| RC12-118 | 44 | <i>G. tumida</i> | 425-500 | 1 | 1.65 | 0.34 | 147 | 20100609 |
| RC12-118 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | 0.52 | 124 | 20100609 |
| RC12-118 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.35 | 0.09 | 123 | 20100609 |
| RC12-118 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | 0.88 | 135 | 20100609 |
| RC12-118 | 64 | <i>G. tumida</i> | 425-500 | 1 | 2.35 | 0.10 | 153 | 20101115 |
| RC12-118 | 64 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -0.15 | 161 | 20101115 |
| RC12-118 | 68 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | 1.14 | 105 | 20101115 |
| RC12-118 | 68 | <i>G. tumida</i> | 425-500 | 1 | 1.29 | 0.26 | 134 | 20101115 |
| RC12-118 | 68 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | 0.51 | 120 | 20101115 |
| RC12-118 | 72 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.38 | 132 | 20101115 |
| RC12-118 | 72 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | 0.11 | 140 | 20101115 |
| RC12-118 | 72 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.62 | 123 | 20101115 |
| RC12-118 | 76 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | 0.27 | 134 | 20101115 |
| RC12-118 | 76 | <i>G. tumida</i> | 425-500 | 1 | 1.42 | 0.12 | 107 | 20101115 |
| RC12-118 | 76 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -0.05 | 154 | 20101115 |

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| RC12-118 | 80 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | 0.38 | 138 | 20101115 |
| RC12-118 | 80 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | 0.08 | 136 | 20101115 |
| RC12-118 | 80 | <i>G. tumida</i> | 425-500 | 1 | 1.76 | -0.23 | 104 | 20101115 |
| RC12-118 | 84 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | 0.37 | 116 | 20101115 |
| RC12-118 | 84 | <i>G. tumida</i> | 425-500 | 1 | 2.30 | 0.21 | 153 | 20101115 |
| RC12-118 | 84 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | 0.29 | 110 | 20101115 |
| RC12-118 | 88 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.33 | 122 | 20101115 |
| RC12-118 | 88 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | -0.10 | 137 | 20101115 |
| RC12-118 | 92 | <i>G. tumida</i> | 425-500 | 1 | 2.41 | 0.06 | 148 | 20101115 |
| RC12-118 | 92 | <i>G. tumida</i> | 425-500 | 1 | 2.28 | 0.21 | 132 | 20101115 |
| RC12-118 | 92 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | 0.02 | 128 | 20101115 |
| RC12-118 | 96 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | 0.23 | 112 | 20101116 |
| RC12-118 | 96 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | -0.20 | 135 | 20101116 |
| RC12-118 | 100 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -0.09 | 153 | 20101116 |
| RC12-118 | 100 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -0.14 | 155 | 20101116 |
| RC12-118 | 4 | <i>G. ruber</i> | 250-355 | 10 | 1.02 | -1.62 | 126 | 20100414 |

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| RC12-118 | 12 | <i>G. ruber</i> | 250-355 | 10 | 1.14 | -1.50 | 154 | 20100414 |
| RC12-118 | 16 | <i>G. ruber</i> | 250-355 | 10 | 0.88 | -1.37 | 146 | 20100414 |
| RC12-118 | 20 | <i>G. ruber</i> | 250-355 | 10 | 0.84 | -1.27 | 154 | 20100414 |
| RC12-118 | 24 | <i>G. ruber</i> | 250-355 | 10 | 1.04 | -1.17 | 140 | 20100414 |
| RC12-118 | 28 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -0.96 | 132 | 20100414 |
| RC12-118 | 32 | <i>G. ruber</i> | 250-355 | 10 | 1.13 | -1.15 | 143 | 20100414 |
| RC12-118 | 36 | <i>G. ruber</i> | 250-355 | 10 | 0.91 | -1.16 | 139 | 20100414 |
| RC12-118 | 40 | <i>G. ruber</i> | 250-355 | 10 | 0.84 | -1.14 | 125 | 20100414 |
| RC12-118 | 44 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -1.13 | 152 | 20100414 |
| RC12-118 | 48 | <i>G. ruber</i> | 250-355 | 10 | 1.20 | -1.23 | 147 | 20100414 |
| RC12-118 | 52 | <i>G. ruber</i> | 250-355 | 10 | 1.29 | -1.20 | 167 | 20100414 |
| RC12-118 | 56 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -1.33 | 136 | 20100414 |
| RC12-118 | 60 | <i>G. ruber</i> | 250-355 | 10 | 1.36 | -1.21 | 131 | 20100414 |
| RC12-118 | 64 | <i>G. ruber</i> | 250-355 | 10 | 1.39 | -1.28 | 159 | 20100414 |
| RC12-118 | 68 | <i>G. ruber</i> | 250-355 | 10 | 1.27 | -1.38 | 138 | 20100414 |
| RC12-118 | 72 | <i>G. ruber</i> | 250-355 | 10 | 1.32 | -1.38 | 162 | 20100414 |

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| RC12-118 | 76 | <i>G. ruber</i> | 250-355 | 10 | 1.18 | -1.42 | 133 | 20100414 |
| RC12-118 | 80 | <i>G. ruber</i> | 250-355 | 10 | 1.45 | -1.35 | 141 | 20100414 |
| RC12-118 | 84 | <i>G. ruber</i> | 250-355 | 10 | 0.98 | -1.48 | 134 | 20100414 |
| RC12-118 | 88 | <i>G. ruber</i> | 250-355 | 10 | 1.25 | -1.37 | 138 | 20100414 |
| RC12-118 | 92 | <i>G. ruber</i> | 250-355 | 10 | 1.16 | -1.44 | 153 | 20100414 |
| RC12-118 | 96 | <i>G. ruber</i> | 250-355 | 10 | 1.41 | -1.56 | 108 | 20100414 |
| RC12-118 | 100 | <i>G. ruber</i> | 250-355 | 10 | 1.46 | -1.52 | 162 | 20100414 |
| VM28-213TW | 0 | <i>G. ruber</i> | 250-355 | 10 | 0.64 | -2.50 | 117 | 20100409 |
| VM28-213TW | 2 | <i>G. ruber</i> | 250-355 | 10 | 0.72 | -1.70 | 132 | 20100409 |
| VM28-213 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | -1.11 | 162 | 20100423 |
| VM28-213 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.45 | 0.31 | 138 | 20100423 |
| VM28-213 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.39 | -0.01 | 159 | 20100423 |
| VM28-213 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | 0.23 | 131 | 20100423 |
| VM28-213 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | -0.81 | 136 | 20100423 |
| VM28-213 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.78 | -0.99 | 141 | 20100423 |
| VM28-213 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.15 | 152 | 20100423 |

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| VM28-213 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | 0.68 | 125 | 20100423 |
| VM28-213 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | 0.16 | 113 | 20100526 |
| VM28-213 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.26 | 0.34 | 116 | 20100526 |
| VM28-213 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | 0.56 | 95 | 20100526 |
| VM28-213 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | 0.84 | 132 | 20100526 |
| VM28-213 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.61 | 0.04 | 164 | 20100526 |
| VM28-213 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | 0.34 | 161 | 20100526 |
| VM28-213 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | 0.16 | 153 | 20100526 |
| VM28-213 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | 0.03 | 158 | 20100526 |
| VM28-213 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.28 | -0.39 | 163 | 20100526 |
| VM28-213 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.32 | 0.75 | 152 | 20100526 |
| VM28-213 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.56 | 0.37 | 126 | 20100526 |
| VM28-213 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | 0.47 | 135 | 20100526 |
| VM28-213 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | 0.16 | 148 | 20100526 |
| VM28-213 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.03 | 151 | 20100526 |
| VM28-213 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.71 | -0.16 | 139 | 20100526 |

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| VM28-213 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.51 | 0.32 | 153 | 20100526 |
| VM28-213 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | -0.80 | 130 | 20100526 |
| VM28-213 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.53 | 0.09 | 153 | 20100526 |
| VM28-213 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | 0.70 | 137 | 20100526 |
| VM28-213 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.49 | 0.12 | 125 | 20100526 |
| VM28-213 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.28 | 0.45 | 159 | 20100526 |
| VM28-213 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.41 | -0.19 | 131 | 20100526 |
| VM28-213 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | 0.15 | 162 | 20100526 |
| VM28-213 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | 0.14 | 164 | 20100526 |
| VM28-213 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.75 | -0.33 | 147 | 20100528 |
| VM28-213 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | 0.18 | 125 | 20100528 |
| VM28-213 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | 0.07 | 128 | 20100528 |
| VM28-213 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.31 | 0.24 | 161 | 20100528 |
| VM28-213 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.31 | -0.29 | 133 | 20100528 |
| VM28-213 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.47 | -0.03 | 150 | 20100528 |
| VM28-213 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.53 | 0.29 | 138 | 20100528 |

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| VM28-213 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.43 | 0.00 | 147 | 20100528 |
| VM28-213 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.58 | -0.48 | 133 | 20100528 |
| VM28-213 | 44 | <i>G. tumida</i> | 425-500 | 1 | 1.45 | 0.30 | 136 | 20100528 |
| VM28-213 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | -0.17 | 148 | 20100528 |
| VM28-213 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.38 | -0.32 | 139 | 20100528 |
| VM28-213 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.84 | 0.49 | 163 | 20100528 |
| VM28-213 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | -0.29 | 131 | 20100528 |
| VM28-213 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.42 | -0.31 | 164 | 20100528 |
| VM28-213 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -0.24 | 165 | 20100528 |
| VM28-213 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | -0.15 | 147 | 20100528 |
| VM28-213 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.41 | -0.56 | 141 | 20100528 |
| VM28-213 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | -0.11 | 145 | 20100608 |
| VM28-213 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | -0.37 | 160 | 20100608 |
| VM28-213 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | 0.77 | 123 | 20100608 |
| VM28-213 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | 0.24 | 131 | 20100608 |
| VM28-213 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.42 | 0.20 | 128 | 20100608 |

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|----------|----|------------------|---------|---|------|-------|-----|----------|
| VM28-213 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | 0.26 | 137 | 20100608 |
| VM28-213 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | 0.48 | 168 | 20100608 |
| VM28-213 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | 0.03 | 125 | 20100608 |
| VM28-213 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | 0.37 | 141 | 20100608 |
| VM28-213 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | 0.48 | 131 | 20100608 |
| VM28-213 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | 0.06 | 116 | 20100608 |
| VM28-213 | 20 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 0.17 | 108 | 20100608 |
| VM28-213 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.36 | 0.15 | 134 | 20100608 |
| VM28-213 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -0.16 | 169 | 20100608 |
| VM28-213 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.19 | 144 | 20100608 |
| VM28-213 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.47 | 0.29 | 126 | 20100608 |
| VM28-213 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.29 | 0.80 | 135 | 20100608 |
| VM28-213 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.23 | 0.33 | 163 | 20100608 |
| VM28-213 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.27 | 0.25 | 134 | 20100608 |
| VM28-213 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | 0.64 | 154 | 20100608 |
| VM28-213 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.45 | -0.41 | 146 | 20100608 |

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| VM28-213 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | -0.19 | 145 | 20100608 |
| VM28-213 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.32 | 0.38 | 133 | 20100608 |
| VM28-213 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | -0.15 | 111 | 20100608 |
| VM28-213 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | -0.42 | 152 | 20100625 |
| VM28-213 | 28 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 0.14 | 144 | 20100625 |
| VM28-213 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | 0.60 | 145 | 20100625 |
| VM28-213 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.42 | 0.39 | 159 | 20100625 |
| VM28-213 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.27 | -0.07 | 144 | 20100625 |
| VM28-213 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.43 | 0.58 | 132 | 20100625 |
| VM28-213 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.32 | 0.39 | 170 | 20100625 |
| VM28-213 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.47 | 0.15 | 149 | 20100625 |
| VM28-213 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | 0.55 | 160 | 20100625 |
| VM28-213 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -0.52 | 114 | 20100625 |
| VM28-213 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.35 | -0.19 | 114 | 20100625 |
| VM28-213 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | 0.94 | 143 | 20100625 |
| VM28-213 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.35 | 0.25 | 138 | 20100625 |

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|----------|----|------------------|---------|---|------|-------|-----|----------|
| VM28-213 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | 0.69 | 124 | 20100625 |
| VM28-213 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.95 | 0.95 | 156 | 20100625 |
| VM28-213 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.32 | 0.38 | 157 | 20100625 |
| VM28-213 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.52 | 0.06 | 115 | 20100625 |
| VM28-213 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | -0.69 | 157 | 20100625 |
| VM28-213 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.25 | 125 | 20100625 |
| VM28-213 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.30 | 0.36 | 164 | 20100625 |
| VM28-213 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.09 | 129 | 20100625 |
| VM28-213 | 12 | <i>G. tumida</i> | 355-425 | 1 | 2.08 | 0.78 | 82 | 20100927 |
| VM28-213 | 12 | <i>G. tumida</i> | 355-425 | 1 | 2.01 | -0.07 | 58 | 20100927 |
| VM28-213 | 12 | <i>G. tumida</i> | 355-425 | 1 | 2.20 | 0.36 | 95 | 20100927 |
| VM28-213 | 12 | <i>G. tumida</i> | 355-425 | 1 | 2.38 | 0.13 | 90 | 20100927 |
| VM28-213 | 12 | <i>G. tumida</i> | 355-425 | 1 | 1.81 | 0.37 | 69 | 20100927 |
| VM28-213 | 12 | <i>G. tumida</i> | 355-425 | 1 | 2.11 | 0.39 | 79 | 20100927 |
| VM28-213 | 12 | <i>G. tumida</i> | 355-425 | 1 | 2.17 | 0.01 | 75 | 20100927 |
| VM28-213 | 12 | <i>G. tumida</i> | 355-425 | 1 | 2.09 | 1.77 | 51 | 20100927 |

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|----------|-----|------------------|---------|---|------|-------|-----|--------|----------|
| VM28-213 | 92 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | 0.04 | 130 | MIS 5e | 20120330 |
| VM28-213 | 92 | <i>G. tumida</i> | 425-500 | 1 | 2.41 | -0.30 | 112 | MIS 5e | 20120330 |
| VM28-213 | 92 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | -0.70 | 131 | MIS 5e | 20120330 |
| VM28-213 | 92 | <i>G. tumida</i> | 425-500 | 1 | 2.55 | -0.38 | 129 | MIS 5e | 20120330 |
| VM28-213 | 92 | <i>G. tumida</i> | 425-500 | 1 | 2.39 | -0.34 | 131 | MIS 5e | 20120330 |
| VM28-213 | 96 | <i>G. tumida</i> | 425-500 | 1 | 2.27 | -0.92 | 105 | MIS 5e | 20120330 |
| VM28-213 | 96 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | -0.27 | 104 | MIS 5e | 20120330 |
| VM28-213 | 96 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | -0.42 | 114 | MIS 5e | 20120330 |
| VM28-213 | 96 | <i>G. tumida</i> | 425-500 | 1 | 2.36 | -0.31 | 110 | MIS 5e | 20120330 |
| VM28-213 | 96 | <i>G. tumida</i> | 425-500 | 1 | 2.46 | -0.92 | 96 | MIS 5e | 20120330 |
| VM28-213 | 100 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | -0.09 | 121 | MIS 5e | 20120330 |
| VM28-213 | 100 | <i>G. tumida</i> | 425-500 | 1 | 2.41 | -0.09 | 127 | MIS 5e | 20120330 |
| VM28-213 | 100 | <i>G. tumida</i> | 425-500 | 1 | 2.35 | -0.61 | 124 | MIS 5e | 20120330 |
| VM28-213 | 100 | <i>G. tumida</i> | 425-500 | 1 | 2.78 | -0.84 | 120 | MIS 5e | 20120330 |
| VM28-213 | 100 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | -0.88 | 152 | MIS 5e | 20120330 |
| VM28-213 | 104 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | -0.74 | 136 | | 20120330 |

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| VM28-213 | 104 | <i>G. tumida</i> | 425-500 | 1 | 2.46 | -0.78 | 141 | 20120330 |
| VM28-213 | 104 | <i>G. tumida</i> | 425-500 | 1 | 1.65 | 0.63 | 139 | 20120330 |
| VM28-213 | 104 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | 0.69 | 126 | 20120330 |
| VM28-213 | 104 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | -0.47 | 140 | 20120330 |
| VM28-213 | 108 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | 0.21 | 99 | 20120330 |
| VM28-213 | 108 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | -0.37 | 116 | 20120330 |
| VM28-213 | 108 | <i>G. tumida</i> | 425-500 | 1 | 2.52 | -1.12 | 125 | 20120330 |
| VM28-213 | 108 | <i>G. tumida</i> | 425-500 | 1 | 2.49 | -0.39 | 122 | 20120330 |
| VM28-213 | 108 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | 0.55 | 115 | 20120330 |
| VM28-213 | 112 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | -0.37 | 132 | 20120330 |
| VM28-213 | 112 | <i>G. tumida</i> | 425-500 | 1 | 2.32 | -0.42 | 104 | 20120330 |
| VM28-213 | 112 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | -0.25 | 128 | 20120330 |
| VM28-213 | 112 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.64 | 135 | 20120330 |
| VM28-213 | 112 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | -0.55 | 123 | 20120330 |
| VM28-213 | 116 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | 0.76 | 123 | 20120330 |
| VM28-213 | 116 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | 0.39 | 143 | 20120330 |

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| VM28-213 | 116 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | -0.15 | 116 | | 20120330 |
| VM28-213 | 116 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.74 | 112 | | 20120330 |
| VM28-213 | 116 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | -0.39 | 107 | | 20120330 |
| VM28-213 | 120 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | -0.05 | 131 | MIS 6 | 20120402 |
| VM28-213 | 120 | <i>G. tumida</i> | 425-500 | 1 | 2.02 | -0.34 | 118 | MIS 6 | 20120402 |
| VM28-213 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.47 | 0.72 | 108 | MIS 6 | 20120402 |
| VM28-213 | 120 | <i>G. tumida</i> | 425-500 | 1 | 2.13 | 0.46 | 130 | MIS 6 | 20120402 |
| VM28-213 | 120 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | 0.85 | 129 | MIS 6 | 20120402 |
| VM28-213 | 124 | <i>G. tumida</i> | 425-500 | 1 | 1.99 | 0.29 | 105 | MIS 6 | 20120402 |
| VM28-213 | 124 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | 0.42 | 105 | MIS 6 | 20120402 |
| VM28-213 | 124 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.23 | 125 | MIS 6 | 20120402 |
| VM28-213 | 124 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | 0.38 | 145 | MIS 6 | 20120402 |
| VM28-213 | 124 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | 0.01 | 153 | MIS 6 | 20120402 |
| VM28-213 | 128 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | 0.08 | 107 | MIS 6 | 20120402 |
| VM28-213 | 128 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | 0.65 | 108 | MIS 6 | 20120402 |
| VM28-213 | 128 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | 0.41 | 123 | MIS 6 | 20120402 |

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| VM28-213 | 132 | <i>G. tumida</i> | 425-500 | 1 | 1.80 | 0.72 | 133 | MIS 6 | 20120402 |
| VM28-213 | 132 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -0.04 | 121 | MIS 6 | 20120402 |
| VM28-213 | 132 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | 0.03 | 131 | MIS 6 | 20120402 |
| VM28-213 | 132 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | 0.28 | 135 | MIS 6 | 20120402 |
| VM28-213 | 132 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -0.24 | 130 | MIS 6 | 20120402 |
| VM28-213 | 136 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.33 | 110 | MIS 6 | 20120403 |
| VM28-213 | 136 | <i>G. tumida</i> | 425-500 | 1 | 1.88 | 0.32 | 121 | MIS 6 | 20120403 |
| VM28-213 | 136 | <i>G. tumida</i> | 425-500 | 1 | 1.79 | 0.63 | 113 | MIS 6 | 20120403 |
| VM28-213 | 136 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | 0.23 | 141 | MIS 6 | 20120403 |
| VM28-213 | 136 | <i>G. tumida</i> | 425-500 | 1 | 1.65 | 0.12 | 94 | MIS 6 | 20120403 |
| VM28-213 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.28 | 0.49 | 111 | MIS 6 | 20120403 |
| VM28-213 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | 0.43 | 130 | MIS 6 | 20120403 |
| VM28-213 | 140 | <i>G. tumida</i> | 425-500 | 1 | 1.66 | 0.16 | 117 | MIS 6 | 20120403 |
| VM28-213 | 140 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | -0.18 | 133 | MIS 6 | 20120403 |
| VM28-213 | 140 | <i>G. tumida</i> | 425-500 | 1 | 2.26 | 1.05 | 112 | MIS 6 | 20120403 |
| VM28-213 | 144 | <i>G. tumida</i> | 425-500 | 1 | 1.70 | 0.59 | 146 | MIS 6 | 20120403 |

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| VM28-213 | 144 | <i>G. tumida</i> | 425-500 | 1 | 1.65 | 0.71 | 120 | MIS 6 | 20120403 |
| VM28-213 | 144 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.15 | 119 | MIS 6 | 20120403 |
| VM28-213 | 144 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | -0.20 | 136 | MIS 6 | 20120403 |
| VM28-213 | 144 | <i>G. tumida</i> | 425-500 | 1 | 1.63 | 0.72 | 123 | MIS 6 | 20120403 |
| VM28-213 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.93 | 0.45 | 123 | MIS 6 | 20120403 |
| VM28-213 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.86 | 0.29 | 148 | MIS 6 | 20120403 |
| VM28-213 | 148 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.62 | 125 | MIS 6 | 20120403 |
| VM28-213 | 148 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.56 | 144 | MIS 6 | 20120403 |
| VM28-213 | 148 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | 0.25 | 129 | MIS 6 | 20120403 |
| VM28-213 | 100 | <i>G. ruber</i> | 250-355 | 10 | 0.56 | -1.99 | 119 | | 20100414 |
| VM28-213 | 96 | <i>G. ruber</i> | 250-355 | 10 | 1.01 | -1.97 | 119 | | 20100414 |
| VM28-213 | 92 | <i>G. ruber</i> | 250-355 | 10 | 1.00 | -1.89 | 131 | | 20100414 |
| VM28-213 | 88 | <i>G. ruber</i> | 250-355 | 10 | 1.12 | -1.83 | 124 | | 20100414 |
| VM28-213 | 84 | <i>G. ruber</i> | 250-355 | 10 | 0.80 | -1.77 | 146 | | 20100414 |
| VM28-213 | 80 | <i>G. ruber</i> | 250-355 | 10 | 0.79 | -1.66 | 126 | | 20100414 |
| VM28-213 | 76 | <i>G. ruber</i> | 250-355 | 10 | 1.40 | -1.49 | 128 | | 20100414 |

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| VM28-213 | 72 | <i>G. ruber</i> | 250-355 | 10 | 0.80 | -1.47 | 139 | 20100414 |
| VM28-213 | 68 | <i>G. ruber</i> | 250-355 | 10 | 0.84 | -1.55 | 151 | 20100414 |
| VM28-213 | 64 | <i>G. ruber</i> | 250-355 | 10 | 1.02 | -1.43 | 131 | 20100414 |
| VM28-213 | 60 | <i>G. ruber</i> | 250-355 | 10 | 0.89 | -1.39 | 134 | 20100414 |
| VM28-213 | 56 | <i>G. ruber</i> | 250-355 | 10 | 0.85 | -1.39 | 133 | 20100414 |
| VM28-213 | 52 | <i>G. ruber</i> | 250-355 | 10 | 1.13 | -1.35 | 129 | 20100414 |
| VM28-213 | 48 | <i>G. ruber</i> | 250-355 | 10 | 1.46 | -1.41 | 169 | 20100414 |
| VM28-213 | 44 | <i>G. ruber</i> | 250-355 | 10 | 0.58 | -1.57 | 160 | 20100414 |
| VM28-213 | 40 | <i>G. ruber</i> | 250-355 | 10 | 1.20 | -1.30 | 142 | 20100414 |
| VM28-213 | 36 | <i>G. ruber</i> | 250-355 | 10 | 1.03 | -1.21 | 137 | 20100414 |
| VM28-213 | 32 | <i>G. ruber</i> | 250-355 | 10 | 0.95 | -1.25 | 133 | 20100414 |
| VM28-213 | 28 | <i>G. ruber</i> | 250-355 | 10 | 0.94 | -1.24 | 170 | 20100414 |
| VM28-213 | 24 | <i>G. ruber</i> | 250-355 | 10 | 0.56 | -1.33 | 157 | 20100414 |
| VM28-213 | 20 | <i>G. ruber</i> | 250-355 | 10 | 0.75 | -1.23 | 153 | 20100414 |
| VM28-213 | 16 | <i>G. ruber</i> | 250-355 | 10 | 0.86 | -1.16 | 150 | 20100414 |
| VM28-213 | 12 | <i>G. ruber</i> | 250-355 | 10 | 0.72 | -1.50 | 161 | 20100414 |

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| VM28-213 | 8 | <i>G. ruber</i> | 250-355 | 10 | 0.95 | -1.40 | 142 | 20100414 |
| VM28-213 | 4 | <i>G. ruber</i> | 250-355 | 10 | 1.36 | -1.82 | 176 | 20100414 |
| VM28-213 | 0 | <i>G. ruber</i> | 250-355 | 10 | 0.95 | -2.37 | 146 | 20100414 |
| VM28-213 | 100 | <i>G. ruber</i> | 250-355 | 10 | 0.55 | -1.70 | 115 | 20120229 |
| VM28-213 | 100 | <i>G. ruber</i> | 250-355 | 10 | 0.67 | -1.59 | 124 | 20120229 |
| VM28-213 | 104 | <i>G. ruber</i> | 250-355 | 10 | 0.35 | -1.80 | 111 | 20120229 |
| VM28-213 | 104 | <i>G. ruber</i> | 250-355 | 10 | 0.44 | -1.61 | 125 | 20120229 |
| VM28-213 | 108 | <i>G. ruber</i> | 250-355 | 10 | 0.81 | -1.48 | 141 | 20120229 |
| VM28-213 | 108 | <i>G. ruber</i> | 250-355 | 10 | 0.71 | -1.89 | 125 | 20120229 |
| VM28-213 | 112 | <i>G. ruber</i> | 250-355 | 10 | 0.53 | -1.61 | 123 | 20120229 |
| VM28-213 | 112 | <i>G. ruber</i> | 250-355 | 10 | 0.53 | -1.66 | 109 | 20120229 |
| VM28-213 | 116 | <i>G. ruber</i> | 250-355 | 10 | 0.15 | -1.72 | 134 | 20120229 |
| VM28-213 | 116 | <i>G. ruber</i> | 250-355 | 10 | 0.24 | -1.67 | 130 | 20120229 |
| VM28-213 | 120 | <i>G. ruber</i> | 250-355 | 10 | 0.30 | -1.67 | 125 | 20120229 |
| VM28-213 | 120 | <i>G. ruber</i> | 250-355 | 10 | -0.14 | -1.87 | 121 | 20120229 |
| VM28-213 | 124 | <i>G. ruber</i> | 250-355 | 10 | 0.36 | -1.63 | 130 | 20120229 |

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| VM28-213 | 124 | <i>G. ruber</i> | 250-355 | 10 | 0.16 | -1.27 | 126 | 20120229 |
| VM28-213 | 128 | <i>G. ruber</i> | 250-355 | 10 | 0.54 | -1.08 | 137 | 20120229 |
| VM28-213 | 128 | <i>G. ruber</i> | 250-355 | 10 | 0.27 | -1.46 | 129 | 20120229 |
| VM28-213 | 132 | <i>G. ruber</i> | 250-355 | 10 | 0.59 | -1.21 | 139 | 20120229 |
| VM28-213 | 132 | <i>G. ruber</i> | 250-355 | 10 | 0.50 | -0.92 | 113 | 20120229 |
| VM28-213 | 136 | <i>G. ruber</i> | 250-355 | 10 | 0.27 | -0.98 | 126 | 20120229 |
| VM28-213 | 136 | <i>G. ruber</i> | 250-355 | 10 | 0.62 | -1.04 | 128 | 20120229 |
| VM28-213 | 140 | <i>G. ruber</i> | 250-355 | 10 | 0.34 | -0.99 | 129 | 20120229 |
| VM28-213 | 140 | <i>G. ruber</i> | 250-355 | 10 | 0.39 | -1.11 | 146 | 20120229 |
| VM28-213 | 144 | <i>G. ruber</i> | 250-355 | 10 | 0.28 | -1.01 | 130 | 20120229 |
| VM28-213 | 144 | <i>G. ruber</i> | 250-355 | 10 | 0.50 | -1.10 | 128 | 20120229 |
| VM28-213 | 148 | <i>G. ruber</i> | 250-355 | 10 | 0.56 | -1.02 | 129 | 20120229 |
| VM28-213 | 148 | <i>G. ruber</i> | 250-355 | 10 | 0.34 | -1.12 | 115 | 20120229 |
| VM28-213 | 152 | <i>G. ruber</i> | 250-355 | 10 | 0.11 | -1.27 | 127 | 20120301 |
| VM28-213 | 152 | <i>G. ruber</i> | 250-355 | 10 | 0.60 | -1.33 | 119 | 20120301 |
| VM28-213 | 156 | <i>G. ruber</i> | 250-355 | 10 | 0.16 | -1.40 | 117 | 20120301 |

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| VM28-213 | 160 | <i>G. ruber</i> | 250-355 | 10 | -0.10 | -1.39 | 137 | 20120301 |
| VM28-213 | 160 | <i>G. ruber</i> | 250-355 | 10 | 0.33 | -1.47 | 125 | 20120301 |
| VM28-213 | 164 | <i>G. ruber</i> | 250-355 | 10 | 0.06 | -1.45 | 142 | 20120301 |
| VM28-213 | 164 | <i>G. ruber</i> | 250-355 | 10 | 0.40 | -1.36 | 115 | 20120301 |
| VM28-213 | 168 | <i>G. ruber</i> | 250-355 | 10 | 0.43 | -1.26 | 122 | 20120301 |
| VM28-213 | 168 | <i>G. ruber</i> | 250-355 | 10 | 0.38 | -1.27 | 118 | 20120301 |
| VM28-213 | 172 | <i>G. ruber</i> | 250-355 | 10 | 0.75 | -1.32 | 120 | 20120301 |
| VM28-213 | 172 | <i>G. ruber</i> | 250-355 | 10 | 0.76 | -1.31 | 125 | 20120301 |
| VM28-213 | 176 | <i>G. ruber</i> | 250-355 | 10 | 0.50 | -1.28 | 133 | 20120301 |
| VM28-213 | 176 | <i>G. ruber</i> | 250-355 | 10 | 0.43 | -1.33 | 112 | 20120301 |
| VM28-213 | 180 | <i>G. ruber</i> | 250-355 | 10 | 0.00 | -1.73 | 103 | 20120301 |
| VM28-213 | 180 | <i>G. ruber</i> | 250-355 | 10 | 0.57 | -1.79 | 107 | 20120301 |
| VM28-213 | 184 | <i>G. ruber</i> | 250-355 | 10 | 0.83 | -1.60 | 109 | 20120301 |
| VM28-213 | 184 | <i>G. ruber</i> | 250-355 | 10 | 1.04 | -1.78 | 134 | 20120301 |
| VM28-213 | 188 | <i>G. ruber</i> | 250-355 | 10 | 0.50 | -1.50 | 109 | 20120301 |
| VM28-213 | 188 | <i>G. ruber</i> | 250-355 | 10 | 0.60 | -1.67 | 111 | 20120301 |

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| VM28-213 | 192 | <i>G. ruber</i> | 250-355 | 10 | 0.87 | -1.72 | 131 | 20120301 |
| VM28-213 | 192 | <i>G. ruber</i> | 250-355 | 10 | 0.78 | -1.71 | 129 | 20120301 |
| VM28-213 | 196 | <i>G. ruber</i> | 250-355 | 10 | 0.45 | -1.82 | 109 | 20120301 |
| VM28-213 | 196 | <i>G. ruber</i> | 250-355 | 10 | 0.68 | -1.64 | 118 | 20120301 |
| VM28-213 | 200 | <i>G. ruber</i> | 250-355 | 10 | 0.62 | -1.52 | 131 | 20120301 |
| VM28-213 | 200 | <i>G. ruber</i> | 250-355 | 10 | 0.68 | -1.53 | 134 | 20120301 |
| VM28-213 | 8 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.15 | -0.30 | 59 | 20110620 |
| VM28-213 | 8 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.25 | -0.16 | 49 | 20110620 |
| VM28-213 | 12 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.43 | 0.43 | 40 | 20110620 |
| VM28-213 | 16 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.44 | 0.04 | 47 | 20110620 |
| VM28-213 | 16 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.06 | -0.41 | 62 | 20110620 |
| VM28-213 | 16 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.23 | -0.56 | 56 | 20110620 |
| VM28-213 | 8 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.56 | -0.32 | 62 | 20110622 |
| VM28-213 | 8 | <i>P. obliquiloculata</i> | 355-425 | 1 | 1.25 | -0.36 | 45 | 20110622 |
| RC12-117 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.40 | 0.21 | 141 | 20100617 |
| RC12-117 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.27 | 0.55 | 128 | 20100617 |

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| RC12-117 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.25 | -0.04 | 146 | | 20100617 |
| RC12-117 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.91 | 0.12 | 110 | LGM | 20100617 |
| RC12-117 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | 0.15 | 160 | LGM | 20100617 |
| RC12-117 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | -0.77 | 139 | LGM | 20100617 |
| RC12-117 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | -0.83 | 125 | LGM | 20100617 |
| RC12-117 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.23 | 0.49 | 135 | LGM | 20100617 |
| RC12-117 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | 0.39 | 142 | LGM | 20100617 |
| RC12-117 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.67 | 119 | LGM | 20100617 |
| RC12-117 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -0.59 | 142 | LGM | 20100617 |
| RC12-117 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | 0.38 | 148 | LGM | 20100617 |
| RC12-117 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | 0.62 | 144 | LGM | 20100617 |
| RC12-117 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | 0.56 | 132 | LGM | 20100617 |
| RC12-117 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | 0.69 | 121 | LGM | 20100617 |
| RC12-117 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | -0.08 | 151 | LGM | 20100617 |
| RC12-117 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | 0.44 | 125 | LGM | 20100617 |
| RC12-117 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.25 | 0.22 | 155 | LGM | 20100617 |

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| RC12-117 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | 0.35 | 113 | LGM | 20100617 |
| RC12-117 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | 0.65 | 121 | LGM | 20100617 |
| RC12-117 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.30 | 161 | LGM | 20100617 |
| RC12-117 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | 0.25 | 126 | LGM | 20100617 |
| RC12-117 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | 0.37 | 140 | LGM | 20100617 |
| RC12-117 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | 0.78 | 170 | LGM | 20100617 |
| RC12-117 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | 0.16 | 119 | LGM | 20100626 |
| RC12-117 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | 0.55 | 152 | LGM | 20100626 |
| RC12-117 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | 0.74 | 136 | LGM | 20100626 |
| RC12-117 | 36 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | 0.24 | 126 | LGM | 20100626 |
| RC12-117 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.33 | -0.06 | 135 | LGM | 20100626 |
| RC12-117 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.31 | 0.19 | 119 | LGM | 20100626 |
| RC12-117 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.37 | 0.06 | 103 | LGM | 20100626 |
| RC12-117 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.32 | 0.28 | 132 | LGM | 20100626 |
| RC12-117 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | 0.48 | 113 | LGM | 20100626 |
| RC12-117 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.33 | 136 | | 20100626 |

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| RC12-117 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.12 | 0.47 | 142 | 20100626 |
| RC12-117 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.41 | 0.50 | 132 | 20100626 |
| RC12-117 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.33 | 0.72 | 116 | 20100626 |
| RC12-117 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.27 | 0.59 | 147 | 20100626 |
| RC12-117 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.96 | -0.57 | 157 | 20100626 |
| RC12-117 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.29 | 0.19 | 153 | 20100626 |
| RC12-117 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.31 | 0.53 | 139 | 20100626 |
| RC12-117 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | 0.29 | 131 | 20100626 |
| RC12-117 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.30 | 0.02 | 143 | 20100626 |
| RC12-117 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | 0.31 | 151 | 20100626 |
| RC12-117 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.46 | 0.13 | 140 | 20100626 |
| RC12-117 | 60 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | 0.76 | 163 | 20100626 |
| RC12-117 | 60 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | -0.15 | 115 | 20100626 |
| RC12-117 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | 0.13 | 156 | 20100626 |
| RC12-117 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.44 | 0.39 | 123 | 20100626 |
| RC12-117 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.11 | 0.22 | 156 | 20100626 |

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| RC12-117 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.14 | 0.29 | 153 | LGM | 20100626 |
| RC12-117 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.23 | 0.25 | 131 | LGM | 20100626 |
| RC12-117 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.03 | 0.17 | 144 | LGM | 20100626 |
| RC12-117 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.30 | 121 | LGM | 20100626 |
| RC12-117 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.09 | 0.45 | 147 | LGM | 20100626 |
| RC12-117 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | -0.15 | 131 | LGM | 20100626 |
| RC12-117 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | -0.78 | 130 | LGM | 20100626 |
| RC12-117 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | 0.02 | 150 | LGM | 20100626 |
| RC12-117 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.40 | 0.72 | 138 | LGM | 20100626 |
| RC12-117 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | 0.31 | 128 | LGM | 20100926 |
| RC12-117 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.92 | 0.37 | 108 | LGM | 20100926 |
| RC12-117 | 4 | <i>G. tumida</i> | 425-500 | 1 | 1.94 | 0.18 | 133 | LGM | 20100926 |
| RC12-117 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | 0.20 | 157 | LGM | 20100926 |
| RC12-117 | 4 | <i>G. tumida</i> | 355-425 | 1 | 1.92 | -0.36 | 73 | LGM | 20100928 |
| RC12-117 | 4 | <i>G. tumida</i> | 355-425 | 1 | 1.86 | 0.70 | 103 | LGM | 20100928 |
| RC12-117 | 4 | <i>G. tumida</i> | 355-425 | 1 | 1.94 | -0.16 | 113 | LGM | 20100928 |

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| RC12-117 | 4 | <i>G. tumida</i> | 355-425 | 1 | 2.15 | 0.46 | 94 | LGM | 20100928 |
| RC12-117 | 4 | <i>G. tumida</i> | 355-425 | 1 | 2.34 | 0.26 | 82 | LGM | 20100928 |
| RC12-117 | 4 | <i>G. tumida</i> | 355-425 | 1 | 2.11 | -0.10 | 62 | LGM | 20100928 |
| RC12-117 | 4 | <i>G. tumida</i> | 355-425 | 1 | 1.90 | 0.33 | 72 | LGM | 20100928 |
| RC12-117 | 4 | <i>G. tumida</i> | 355-425 | 1 | 1.78 | 0.43 | 81 | LGM | 20100928 |
| RC12-117 | 64 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | 0.30 | 138 | | 20101111 |
| RC12-117 | 64 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | -0.13 | 153 | | 20101111 |
| RC12-117 | 64 | <i>G. tumida</i> | 425-500 | 1 | 2.48 | -0.03 | 127 | | 20101111 |
| RC12-117 | 68 | <i>G. tumida</i> | 425-500 | 1 | 2.08 | -0.01 | 132 | | 20101111 |
| RC12-117 | 68 | <i>G. tumida</i> | 425-500 | 1 | 2.22 | 0.22 | 130 | | 20101111 |
| RC12-117 | 68 | <i>G. tumida</i> | 425-500 | 1 | 2.40 | 0.12 | 110 | | 20101111 |
| RC12-117 | 72 | <i>G. tumida</i> | 425-500 | 1 | 2.25 | -0.38 | 119 | | 20101111 |
| RC12-117 | 72 | <i>G. tumida</i> | 425-500 | 1 | 2.35 | -0.20 | 130 | | 20101111 |
| RC12-117 | 72 | <i>G. tumida</i> | 425-500 | 1 | 2.42 | -0.02 | 120 | | 20101111 |
| RC12-117 | 76 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | -0.51 | 98 | | 20101111 |
| RC12-117 | 76 | <i>G. tumida</i> | 425-500 | 1 | 2.32 | 0.40 | 106 | | 20101111 |

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| RC12-117 | 76 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | 0.32 | 130 | 20101111 |
| RC12-117 | 80 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.31 | 117 | 20101111 |
| RC12-117 | 80 | <i>G. tumida</i> | 425-500 | 1 | 2.41 | -0.15 | 108 | 20101111 |
| RC12-117 | 84 | <i>G. tumida</i> | 425-500 | 1 | 2.25 | -0.44 | 137 | 20101111 |
| RC12-117 | 84 | <i>G. tumida</i> | 425-500 | 1 | 1.83 | 0.05 | 101 | 20101111 |
| RC12-117 | 84 | <i>G. tumida</i> | 425-500 | 1 | 2.28 | -0.20 | 129 | 20101111 |
| RC12-117 | 88 | <i>G. tumida</i> | 425-500 | 1 | 2.48 | -0.04 | 128 | 20101111 |
| RC12-117 | 88 | <i>G. tumida</i> | 425-500 | 1 | 2.39 | 0.05 | 143 | 20101111 |
| RC12-117 | 88 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | -0.08 | 107 | 20101111 |
| RC12-117 | 92 | <i>G. tumida</i> | 425-500 | 1 | 2.29 | 0.10 | 137 | 20101111 |
| RC12-117 | 92 | <i>G. tumida</i> | 425-500 | 1 | 2.20 | 0.34 | 155 | 20101111 |
| RC12-117 | 92 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | 0.08 | 150 | 20101111 |
| RC12-117 | 96 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.29 | 130 | 20101112 |
| RC12-117 | 96 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | 0.05 | 127 | 20101112 |
| RC12-117 | 96 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.13 | 124 | 20101112 |
| RC12-117 | 100 | <i>G. tumida</i> | 425-500 | 1 | 1.54 | 0.56 | 128 | 20101112 |

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| RC12-117 | 100 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.16 | 109 | | 20101112 |
| RC12-117 | 0 | <i>G. ruber</i> | 250-355 | 10 | 0.75 | -2.31 | 122 | | 21010714 |
| RC12-117 | 4 | <i>G. ruber</i> | 250-355 | 10 | 0.28 | -2.21 | 123 | LGM | 21010714 |
| RC12-117 | 8 | <i>G. ruber</i> | 250-355 | 10 | 0.16 | -2.24 | 122 | LGM | 21010714 |
| RC12-117 | 12 | <i>G. ruber</i> | 250-355 | 10 | 0.23 | -2.39 | 115 | LGM | 21010714 |
| RC12-117 | 16 | <i>G. ruber</i> | 250-355 | 10 | 0.76 | -2.17 | 115 | LGM | 21010714 |
| RC12-117 | 20 | <i>G. ruber</i> | 250-355 | 10 | 0.25 | -1.85 | 124 | LGM | 21010714 |
| RC12-117 | 24 | <i>G. ruber</i> | 250-355 | 10 | 0.06 | -1.68 | 117 | LGM | 21010714 |
| RC12-117 | 28 | <i>G. ruber</i> | 250-355 | 10 | 0.40 | -1.39 | 115 | LGM | 21010714 |
| RC12-117 | 32 | <i>G. ruber</i> | 250-355 | 10 | 0.08 | -1.48 | 124 | LGM | 21010714 |
| RC12-117 | 36 | <i>G. ruber</i> | 250-355 | 10 | 1.04 | -1.19 | 137 | LGM | 21010714 |
| RC12-117 | 40 | <i>G. ruber</i> | 250-355 | 10 | 0.84 | -1.08 | 126 | LGM | 21010714 |
| RC12-117 | 44 | <i>G. ruber</i> | 250-355 | 10 | 0.50 | -1.15 | 111 | | 21010714 |
| RC12-117 | 48 | <i>G. ruber</i> | 250-355 | 10 | 0.17 | -1.21 | 114 | | 21010714 |
| RC12-117 | 52 | <i>G. ruber</i> | 250-355 | 10 | 0.23 | -1.20 | 115 | | 21010714 |
| RC12-117 | 56 | <i>G. ruber</i> | 250-355 | 10 | 0.85 | -1.23 | 113 | | 21010714 |

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| RC12-117 | 60 | <i>G. ruber</i> | 250-355 | 10 | 0.28 | -1.18 | 112 | 21010714 |
| RC12-117 | 64 | <i>G. ruber</i> | 250-355 | 10 | 0.13 | -1.30 | 113 | 21010714 |
| RC12-117 | 68 | <i>G. ruber</i> | 250-355 | 10 | 0.36 | -1.30 | 116 | 21010714 |
| RC12-117 | 72 | <i>G. ruber</i> | 250-355 | 10 | 0.42 | -1.14 | 125 | 21010714 |
| RC12-117 | 76 | <i>G. ruber</i> | 250-355 | 10 | 0.32 | -1.27 | 128 | 21010714 |
| RC12-117 | 80 | <i>G. ruber</i> | 250-355 | 10 | 0.89 | -1.23 | 124 | 21010714 |
| RC12-117 | 84 | <i>G. ruber</i> | 250-355 | 10 | 0.79 | -1.38 | 115 | 21010714 |
| RC12-117 | 88 | <i>G. ruber</i> | 250-355 | 10 | 0.67 | -1.44 | 120 | 21010714 |
| RC12-117 | 92 | <i>G. ruber</i> | 250-355 | 10 | 0.95 | -1.23 | 115 | 21010714 |
| RC12-117 | 96 | <i>G. ruber</i> | 250-355 | 10 | 0.55 | -1.41 | 114 | 21010714 |
| RC12-117 | 100 | <i>G. ruber</i> | 250-355 | 10 | 0.69 | -1.53 | 131 | 21010714 |
| RC12-117 | 64 | <i>G. ruber</i> | 250-355 | 10 | 0.31 | -1.24 | 116 | 20101112 |
| RC12-117 | 64 | <i>G. ruber</i> | 250-355 | 10 | 0.66 | -1.15 | 124 | 20101112 |
| RC12-117 | 68 | <i>G. ruber</i> | 250-355 | 10 | 0.92 | -1.15 | 135 | 20101112 |
| RC12-117 | 98 | <i>G. ruber</i> | 250-355 | 10 | 0.76 | -1.25 | 133 | 20101112 |
| RC12-117 | 72 | <i>G. ruber</i> | 250-355 | 10 | 0.55 | -1.17 | 114 | 20101112 |

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| RC12-117 | 72 | <i>G. ruber</i> | 250-355 | 10 | 0.88 | -1.17 | 136 | 20101112 |
| RC12-117 | 76 | <i>G. ruber</i> | 250-355 | 10 | 0.81 | -1.27 | 139 | 20101112 |
| RC12-117 | 76 | <i>G. ruber</i> | 250-355 | 10 | 0.58 | -1.27 | 127 | 20101112 |
| RC12-117 | 80 | <i>G. ruber</i> | 250-355 | 10 | 1.06 | -1.28 | 133 | 20101112 |
| RC12-117 | 80 | <i>G. ruber</i> | 250-355 | 10 | 0.16 | -1.41 | 103 | 20101112 |
| RC12-117 | 84 | <i>G. ruber</i> | 250-355 | 10 | 0.91 | -1.33 | 130 | 20101112 |
| RC12-117 | 84 | <i>G. ruber</i> | 250-355 | 10 | 0.68 | -1.42 | 116 | 20101112 |
| RC12-117 | 88 | <i>G. ruber</i> | 250-355 | 10 | 0.67 | -1.33 | 126 | 20101112 |
| RC12-117 | 88 | <i>G. ruber</i> | 250-355 | 10 | 0.40 | -1.45 | 122 | 20101112 |
| RC12-117 | 92 | <i>G. ruber</i> | 250-355 | 10 | 0.26 | -1.41 | 120 | 20101112 |
| RC12-117 | 92 | <i>G. ruber</i> | 250-355 | 10 | 0.81 | -1.38 | 133 | 20101112 |
| RC12-117 | 96 | <i>G. ruber</i> | 250-355 | 10 | 0.39 | -1.59 | 117 | 20101112 |
| RC12-117 | 96 | <i>G. ruber</i> | 250-355 | 10 | 0.59 | -1.41 | 133 | 20101112 |
| RC12-117 | 100 | <i>G. ruber</i> | 250-355 | 10 | 0.69 | -1.52 | 109 | 20101112 |
| RC12-117 | 100 | <i>G. ruber</i> | 250-355 | 10 | 0.32 | -1.52 | 107 | 20101112 |
| VM34-2 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.74 | -0.79 | 139 | 20100423 |

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| VM34-2 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.85 | 0.56 | 143 | | 20100423 |
| VM34-2 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | 0.70 | 132 | | 20100423 |
| VM34-2 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.97 | 0.04 | 140 | | 20100423 |
| VM34-2 | 0 | <i>G. tumida</i> | 425-500 | 1 | 2.36 | 0.28 | 154 | | 20100423 |
| VM34-2 | 0 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -0.49 | 146 | | 20100423 |
| VM34-2 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | -0.56 | 126 | | 20100509 |
| VM34-2 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.05 | 1.01 | 118 | | 20100509 |
| VM34-2 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.30 | 0.75 | 155 | | 20100509 |
| VM34-2 | 4 | <i>G. tumida</i> | 425-500 | 1 | 2.06 | 0.52 | 112 | | 20100509 |
| VM34-2 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | 1.13 | 140 | | 20100509 |
| VM34-2 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.19 | 0.40 | 111 | | 20100509 |
| VM34-2 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.73 | 0.48 | 163 | | 20100509 |
| VM34-2 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.73 | 134 | LGM | 20100509 |
| VM34-2 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.04 | 0.90 | 161 | LGM | 20100509 |
| VM34-2 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | 0.48 | 144 | LGM | 20100509 |
| VM34-2 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.33 | 0.85 | 151 | | 20100509 |

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| VM34-2 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.89 | 0.43 | 138 | 20100509 |
| VM34-2 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.01 | 0.59 | 112 | 20100509 |
| VM34-2 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | 0.96 | 116 | 20100509 |
| VM34-2 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.10 | 0.77 | 143 | 20100509 |
| VM34-2 | 20 | <i>G. tumida</i> | 425-500 | 1 | 2.40 | 0.33 | 135 | 20100509 |
| VM34-2 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.41 | 0.53 | 164 | 20100509 |
| VM34-2 | 16 | <i>G. tumida</i> | 425-500 | 1 | 2.18 | 0.18 | 133 | 20100509 |
| VM34-2 | 16 | <i>G. tumida</i> | 425-500 | 1 | 1.03 | 0.01 | 109 | 20100509 |
| VM34-2 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.29 | 0.52 | 144 | 20100509 |
| VM34-2 | 12 | <i>G. tumida</i> | 425-500 | 1 | 2.43 | 0.64 | 142 | 20100509 |
| VM34-2 | 12 | <i>G. tumida</i> | 425-500 | 1 | 1.98 | -0.17 | 157 | 20100509 |
| VM34-2 | 8 | <i>G. tumida</i> | 425-500 | 1 | 2.35 | 0.21 | 113 | 20100509 |
| VM34-2 | 64 | <i>G. tumida</i> | 425-500 | 1 | 2.31 | 0.76 | 148 | 20100512 |
| VM34-2 | 64 | <i>G. tumida</i> | 425-500 | 1 | 2.15 | 0.26 | 157 | 20100512 |
| VM34-2 | 64 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | 0.26 | 103 | 20100512 |
| VM34-2 | 60 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | -0.10 | 171 | 20100512 |

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| VM34-2 | 60 | <i>G. tumida</i> | 425-500 | 1 | 2.50 | 0.31 | 147 | 20100512 |
| VM34-2 | 60 | <i>G. tumida</i> | 425-500 | 1 | 2.29 | 0.10 | 162 | 20100512 |
| VM34-2 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.21 | 0.20 | 149 | 20100512 |
| VM34-2 | 56 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | -0.23 | 152 | 20100512 |
| VM34-2 | 56 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | 0.52 | 162 | 20100512 |
| VM34-2 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.16 | 0.34 | 146 | 20100512 |
| VM34-2 | 52 | <i>G. tumida</i> | 425-500 | 1 | 1.90 | -0.16 | 127 | 20100512 |
| VM34-2 | 52 | <i>G. tumida</i> | 425-500 | 1 | 2.41 | 0.91 | 159 | 20100512 |
| VM34-2 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.23 | 0.28 | 124 | 20100512 |
| VM34-2 | 48 | <i>G. tumida</i> | 425-500 | 1 | 2.26 | 0.50 | 146 | 20100512 |
| VM34-2 | 48 | <i>G. tumida</i> | 425-500 | 1 | 1.87 | 0.19 | 167 | 20100512 |
| VM34-2 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.29 | 0.60 | 108 | 20100512 |
| VM34-2 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.24 | 0.48 | 114 | 20100512 |
| VM34-2 | 44 | <i>G. tumida</i> | 425-500 | 1 | 2.47 | 1.05 | 146 | 20100512 |
| VM34-2 | 40 | <i>G. tumida</i> | 425-500 | 1 | 1.78 | 0.70 | 117 | 20100512 |
| VM34-2 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.07 | 0.39 | 157 | 20100512 |

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| VM34-2 | 40 | <i>G. tumida</i> | 425-500 | 1 | 2.40 | 0.24 | 151 | | 20100512 |
| VM34-2 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.33 | 0.77 | 146 | | 20100512 |
| VM34-2 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.30 | 0.28 | 139 | | 20100512 |
| VM34-2 | 36 | <i>G. tumida</i> | 425-500 | 1 | 2.00 | 0.54 | 168 | | 20100512 |
| VM34-2 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.34 | 0.17 | 147 | | 20101221 |
| VM34-2 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.48 | 0.53 | 132 | | 20101221 |
| VM34-2 | 32 | <i>G. tumida</i> | 425-500 | 1 | 2.43 | 0.37 | 114 | | 20101221 |
| VM34-2 | 32 | <i>G. tumida</i> | 425-500 | 1 | 1.71 | 0.20 | 95 | | 20101221 |
| VM34-2 | 28 | <i>G. tumida</i> | 355-425 | 1 | 2.01 | 0.68 | 74 | LGM | 20110606 |
| VM34-2 | 28 | <i>G. tumida</i> | 355-425 | 1 | 2.12 | 1.28 | 73 | LGM | 20110606 |
| VM34-2 | 24 | <i>G. tumida</i> | 425-500 | 1 | 2.17 | 0.95 | 105 | | 20110606 |
| VM34-2 | 24 | <i>G. tumida</i> | 425-500 | 1 | 1.81 | 0.51 | 160 | | 20110606 |
| VM34-2 | 24 | <i>G. tumida</i> | 355-425 | 1 | 2.53 | 0.64 | 99 | | 20110606 |
| VM34-2 | 24 | <i>G. tumida</i> | 355-425 | 1 | 2.33 | 0.34 | 94 | | 20110606 |
| VM34-2 | 24 | <i>G. tumida</i> | 355-425 | 1 | 2.29 | 0.59 | 94 | | 20110606 |
| VM34-2 | 24 | <i>G. tumida</i> | 355-425 | 1 | 2.16 | 0.48 | 60 | | 20110606 |

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|--------|----|------------------|---------|----|------|-------|-----|-----|----------|
| VM34-2 | 24 | <i>G. tumida</i> | 250-355 | 1 | 2.06 | 0.93 | 59 | | 20110606 |
| VM34-2 | 28 | <i>G. tumida</i> | 425-500 | 1 | 2.33 | 0.35 | 107 | LGM | 20110606 |
| VM34-2 | 28 | <i>G. tumida</i> | 355-425 | 1 | 2.06 | 0.94 | 73 | LGM | 20110606 |
| VM34-2 | 28 | <i>G. tumida</i> | 355-425 | 1 | 1.90 | 0.71 | 81 | LGM | 20110606 |
| VM34-2 | 16 | <i>G. ruber</i> | 250-355 | 10 | 0.87 | -1.47 | 174 | | 20100426 |
| VM34-2 | 12 | <i>G. ruber</i> | 250-355 | 10 | 0.57 | -1.78 | 144 | | 20100426 |
| VM34-2 | 8 | <i>G. ruber</i> | 250-355 | 10 | 0.30 | -2.13 | 137 | | 20100426 |
| VM34-2 | 4 | <i>G. ruber</i> | 250-355 | 10 | 0.55 | -1.81 | 141 | | 20100426 |
| VM34-2 | 0 | <i>G. ruber</i> | 250-355 | 10 | 0.51 | -1.79 | 142 | | 20100426 |
| VM34-2 | 60 | <i>G. ruber</i> | 250-355 | 10 | 0.34 | -1.50 | 149 | | 20100503 |
| VM34-2 | 56 | <i>G. ruber</i> | 250-355 | 10 | 1.05 | -1.17 | 147 | | 20100503 |
| VM34-2 | 52 | <i>G. ruber</i> | 250-355 | 10 | 0.70 | -1.26 | 152 | | 20100503 |
| VM34-2 | 48 | <i>G. ruber</i> | 250-355 | 10 | 0.36 | -1.38 | 115 | | 20100503 |
| VM34-2 | 44 | <i>G. ruber</i> | 250-355 | 10 | 0.94 | -1.07 | 164 | | 20100503 |
| VM34-2 | 40 | <i>G. ruber</i> | 250-355 | 10 | 0.50 | -1.14 | 137 | | 20100503 |
| VM34-2 | 36 | <i>G. ruber</i> | 250-355 | 10 | 0.87 | -0.93 | 163 | | 20100503 |

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|------------|----|-----------------|-------------|----|-------|-------|-----|-----|----------|
| VM34- 2 | 32 | <i>G. ruber</i> | 250- 355 | 10 | 0.58 | -1.11 | 156 | | 20100503 |
| VM34- 2 | 28 | <i>G. ruber</i> | 250- 355 | 10 | 0.73 | -1.06 | 160 | LGM | 20100503 |
| VM34- 2 | 24 | <i>G. ruber</i> | 250- 355 | 10 | 0.44 | -1.18 | 159 | | 20100503 |
| VM34- 2 | 20 | <i>G. ruber</i> | 250- 355 | 10 | 0.34 | -1.84 | 130 | | 20100503 |
| VM34- 2 | 60 | <i>G. ruber</i> | 250- 355 | 10 | 0.62 | -1.10 | 136 | | 20120321 |
| VM34- 2 | 60 | <i>G. ruber</i> | 250- 355 | 10 | -0.14 | -1.43 | 137 | | 20120321 |
| VM34- 2 | 64 | <i>G. ruber</i> | 250- 355 | 10 | 0.40 | -1.25 | 141 | | 20120321 |
| VM34- 2 | 64 | <i>G. ruber</i> | 250- 355 | 10 | 0.38 | -1.43 | 136 | | 20120321 |
| VM34- 2 | 68 | <i>G. ruber</i> | 250- 355 | 10 | 0.19 | -1.38 | 135 | | 20120321 |
| VM34- 2 | 68 | <i>G. ruber</i> | 250- 355 | 10 | -0.12 | -1.63 | 127 | | 20120321 |
| VM34- 2 | 72 | <i>G. ruber</i> | 250- 355 | 10 | -0.61 | -1.49 | 133 | | 20120321 |
| VM34- 2 | 72 | <i>G. ruber</i> | 250- 355 | 10 | 0.31 | -1.25 | 146 | | 20120321 |
| VM34- 2 | 76 | <i>G. ruber</i> | 250- 355 | 10 | 0.27 | -1.34 | 134 | | 20120321 |
| VM34- 2 | 76 | <i>G. ruber</i> | 250- 355 | 10 | 0.02 | -1.21 | 151 | | 20120321 |
| VM34- 2 | 80 | <i>G. ruber</i> | 250- 355 | 10 | 0.73 | -1.20 | 136 | | 20120321 |
| VM34- 2 | 80 | <i>G. ruber</i> | 250- 355 | 10 | 0.75 | -1.06 | 128 | | 20120321 |

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| VM34-2 | 84 | <i>G. ruber</i> | 250-355 | 10 | -0.43 | -1.29 | 113 | 20120321 |
| VM34-2 | 84 | <i>G. ruber</i> | 250-355 | 10 | 0.30 | -1.02 | 117 | 20120321 |
| VM34-2 | 88 | <i>G. ruber</i> | 250-355 | 10 | 0.87 | -1.25 | 137 | 20120321 |
| VM34-2 | 88 | <i>G. ruber</i> | 250-355 | 10 | 0.16 | -1.26 | 130 | 20120321 |
| VM34-2 | 92 | <i>G. ruber</i> | 250-355 | 10 | 0.89 | -1.46 | 122 | 20120321 |
| VM34-2 | 92 | <i>G. ruber</i> | 250-355 | 10 | 0.54 | -1.35 | 134 | 20120321 |
| VM34-2 | 96 | <i>G. ruber</i> | 250-355 | 10 | 0.41 | -1.50 | 134 | 20120321 |
| VM34-2 | 96 | <i>G. ruber</i> | 250-355 | 10 | 0.62 | -1.40 | 119 | 20120321 |
| VM34-2 | 100 | <i>G. ruber</i> | 250-355 | 10 | 0.04 | -1.54 | 129 | 20120321 |
| VM34-2 | 100 | <i>G. ruber</i> | 250-355 | 10 | 0.87 | -1.69 | 135 | 20120321 |
| VM34-2TW | 2 | <i>G. ruber</i> | 250-355 | 10 | 0.15 | -2.05 | 125 | 20100409 |
| VM34-2TW | 0 | <i>G. ruber</i> | 250-355 | 10 | 0.72 | -2.03 | 145 | 20100409 |

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