Revised composite depth scales and integration of IODP Sites U1331–U1334 and ODP Sites 1218–1220[1]

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Chapter contents

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Abstract

To reconstruct the climate history of the equatorial Pacific, one major objective of the Pacific Equatorial Age Transect (PEAT) program is to compile a Cenozoic megasplice that integrates all available bio-, chemo-, and magnetostratigraphic data including key records from Ocean Drilling Program (ODP) Leg 199. In order to do so, extended postcruise refinements of the shipboard composite depth scales and composite records are required. Here, we present a revised depth scale of Integrated Ocean Drilling Program (IODP) Expedition 320 Sites U1331, U1332, U1333, and U1334 as well as Leg 199 Sites 1218, 1219, and 1220. The revised composite records were used to perform site-to-site correlation and integration of Leg 199 and Expedition 320 sites. Based on this decimeter-scale correlation, a high-resolution integrated paleomagnetic, calcareous nannofossil, and radiolarian stratigraphy for the equatorial Pacific is established that covers the time from 20 to 40 Ma. This sedimentary compendium from the equatorial Pacific will be the backbone for paleoceanographic reconstructions for the late Paleogene.

Introduction

Integrated Ocean Drilling Program (IODP) Expedition 320/321 (Pacific Equatorial Age Transect [PEAT]) cored eight sites (U1331–U1338) during March–July in 2009 (Fig. **F1**), recovering an age transect at the Pacific paleoequatorial region from the time of maximum Cenozoic warmth in the Eocene, through initial major glaciations in the Oligocene, to the present (see the **"Expedition 320/321 summary"** chapter [Expedition 320/321 Scientists, 2010a]; Lyle et al., 2009). The overall aim was to obtain continuous and well-preserved calcareous sediment sections for specific time slices. Of major importance for the objectives of the PEAT expeditions is the assembly of an integrated bio-, chemo-, and magnetostratigraphy at the Equator, hereafter referred to as the Cenozoic megasplice.

In addition to those from the PEAT drill sites, key records for the breakthrough in reconstructing the equatorial climate system of the late Eocene and Oligocene epochs were recovered during Ocean Drilling Program (ODP) Leg 199 (Lyle, Wilson, Janecek, et al., 2002), Site 1218 in particular (Fig. **F1**). Data from Site 1218 allowed astronomical calibration of the entire Oligocene (Wade and

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Pälike, 2004; Coxall et al., 2005; Pälike et al., 2006), but the lack of carbonate in the uppermost Eocene at this site made detailed time control much less robust. Although the paleomagnetic record for these time intervals is of high quality (e.g., Lanci et al., 2004, 2005), global stratigraphic correlation is hindered by the lower mass accumulation rate, the absence of a detailed isotope stratigraphy, and low-resolution biostratigraphic control. In order to facilitate the development of an integrated magneto- and biostratigraphic framework with a stable isotope stratigraphy (necessary to enable global correlation), recovery of Eocene carbonate sediment with a high-quality magnetostratigraphy was targeted and successfully retrieved during Expedition 320.

During Expedition 320/321, at least three holes at each site were cored and used to construct composite sections (see the **"Methods"** chapter [Expedition 320/321 Scientists, 2010b]) in order to assure the recovery of a complete stratigraphic section needed for the assembly of the Cenozoic megasplice. As shown at ODP Leg 199 Sites 1218 and 1219 (Pälike et al., 2005), extensive postcruise work is required to re-evaluate the shipboard composite depth stratigraphy and to provide a high-resolution revised meters composite depth (rmcd) scale. In addition, squeezing and stretching of cored intervals is necessary to compensate for depth distortion within individual cores (Hagelberg et al., 1992). To locate hiatuses and condensed intervals, it is essential to do a site-to-site correlation using physical property data (Shackleton et al., 1995, 1999; Shackleton and Crowhurst, 1997; Pälike et al., 2005; Westerhold and Röhl, 2006; Westerhold et al., 2007, 2008). Subsequently, the correlation allows integration of any kind of data from one site to another. A prerequisite for correlation is that decimeter-scale features in the sedimentary record can be correlated between holes and, if possible, between sites.

Both Leg 199 and Expedition 320/321 magnetic susceptibility and gamma ray attenuation (GRA) bulk density data can be correlated over large distances (>1000 km) across the Pacific seafloor (Pälike et al., 2005, 2009). Physical property data, a proxy for calcium carbonate oscillations, at Sites U1331 and U1332 show a remarkable match with those from ODP Site 1220, a site with an excellent magnetostratigraphy. Similarly, Sites U1333 and U1334 can be correlated to Site 1218. Together, these sites provide a coherent and integrated record for the equatorial Pacific and enable study of sedimentation patterns and mass accumulation rates at orbital resolution (Pälike et al., 2009). Here, we present revised composite depth scales and revised spliced composite records for Expedition 320 Sites U1331, U1332, U1333, and U1334 and Leg 199 Sites 1218, 1219, and 1220 (Fig. **F1**). We also correlate and integrate Leg 199 and Expedition 320 physical property and stratigraphic data (including shipboard and revised biostratigraphic data) to define a complete high-resolution time series for the middle–late Eocene, the entire Oligocene, and the early Miocene.

Material and methods

Magnetic susceptibility and GRA bulk density data from the Whole-Round Multisensor Logger and virtual geomagnetic pole (VGP) data calculated from natural remanent magnetization measurements in a superconducting rock magnetometer collected at Expedition 320 sites (see the **"Expedition 320/321 summary"** chapter [Expedition 320/321 Scientists, 2010a]) were used to refine depth offsets and to revise the shipboard composite section for Sites U1331, U1332, U1333, and U1334. Similarly, magnetic susceptibility, GRA, and VGP data from Leg 199 sites (Shipboard Scientific Party, 2002a, 2002b, 2002c; Pälike et al., 2005) were used to refine offsets and splices at Sites 1218, 1219, and 1220. Refinements are also based on detailed high-resolution X-ray fluorescence (XRF) core scanning data (T. Westerhold et al., unpubl. data; D. Liebrand et al., unpubl. data).

In 2006–2007 new classification and nomenclature for depth scale types were defined for IODP (see IODP Depth Scales Terminology at **www.iodp.org/program-policies/**). The new methods and nomenclature for calculating sample depth in a hole has changed to be method specific to ensure that data acquisition, mapping of scales, and construction of composite scales and splices are unequivocal. Because this study integrates data with different depth scale nomenclatures, we will describe in detail the classifications and definitions of depth scales as used here for Leg 199 and Expedition 320. A much more detailed definition of IODP depth scales used during Expedition 320/321 is given in the **"Methods"** chapter (Expedition 320/321 Scientists, 2010b).

For this study, the most important depth is the core depth below seafloor. This depth for each drilled core is based on the actual length of the recovered core and the drillers depth. It is defined as core depth below seafloor (CSF) for Expedition 320 and meters below seafloor (mbsf) for Leg 199. For consistency, we suggest the use of "mbsf (m CSF-A)" for Expedition 320 sites and "mbsf" for Leg 199 sites. Each point in the core can now be located by adding the offset between sample and core top to the drilling depth below seafloor (DSF) of the top of the core. To construct an initial continuous stratigraphic reference

during the expedition, individual cores were depth shifted to maximize correlation between multiple adjacent holes and spliced together into a composite record. The new shipboard depth scale of the spliced section is defined as the composite core depth below seafloor (CCSF-A) for Expedition 320 and meters composite depth (mcd) for Leg 199. For consistency we suggest the use of "mcd (m CCSF-A)" for Expedition 320 and "mcd" for Leg 199. The addendum "-A" to Expedition 320 cores to the CCSF denotes that individual cores were shifted vertically without permitting expansion or contraction of the relative depth scale within any core.

Postcruise, we evaluated and revised the shipboard spliced composite section, establishing new core offsets and refined the shipboard splice if necessary. Intervals having significant disturbance or distortion were not used for composite section construction. For construction of the revised records, we tried to maintain those tie points given in the shipboard composite, where possible. Changes in the position of tie points in the revised spliced record have been highlighted as bold letters in the splice tables of each site. The new refined depth scale is defined as the revised composite core depth below seafloor (revised CCSF-A) for Expedition 320 and revised meters composite depth (rmcd) for Leg 199. For consistency we suggest the use of "rmcd (m revised CCSF-A)" for Expedition 320 and "rmcd" for Leg 199. Correction to the rmcd depth scales of Leg 199 (Pälike et al., 2005) are indicated by the corrected revised meters composite depth (corrected rmcd).

After assembling the new composite records, we adjusted sedimentary sections outside the revised composite splice by squeezing and stretching to conform to the overall rmcd and rmcd (m revised CCSF-A) depth scales. To indicate this adjustment we added the prefix "adjusted" to the rmcd (m revised CCSF-A) and the corrected rmcd if necessary. This mapping procedure allows data and samples located outside the spliced composite record to be placed in the new revised composite depth scale at each site.

Finally, to integrate all available data we correlated magnetic susceptibility, GRA, and VGP data between sites using the time series analysis program AnalySeries (Paillard et al., 1996). All tables and cleaned composite records of magnetic susceptibility and GRA data from Sites 1218, 1219, 1220, U1331, U1332, U1333, and U1334 and VGP data from Sites 1218, 1219, and 1220 are available online in the WDC-MARE PANGAEA database (**doi.pangaea.de/10.1594/PANGAEA.757215**).

Composite core images were created as an additional aid in site-to-site correlation using an approach modified from that described in Wilkens et al. (2009). Individual section images collected by the shipboard Section Half Imaging Logger (SHIL) during Expedition 320 were initially assigned a core depth below seafloor (CSF-A) depth range based on site coring data. Section images were then mapped onto a single image of an entire core. Core image depth ranges were then shifted by constant offsets to revised CCSF-A depths based on the revised composite splice for each site (e.g., Table **T1**). The final step in creating a single image of the entire revised composite section involved another mapping of depth intervals from individual core images defined in site splice tables (e.g., Table **T2**) onto a composite image. As the resolution of the original SHIL images is on the order of 50 µm, each mapping step included image interpolation to a coarser scale—250 µm for the individual core images and 1 mm for the composite image. Leg 199 was the first use of an earlier version of the shipboard digital imaging system (DIS), and unfamiliarity with its operation led to inconsistent image exposures. Rather than attempt to correct the DIS images, we elected to use the digitized core photos available online at the IODP data website to construct composite site images. Images of each section of each core were digitally cut from the core images and then combined as described above. As the core photo images were much lower resolution (nominally 2.5 mm), there was no need to downsize while mapping. A slight unevenness in lighting of the core photos (darker around the perimeter) produced an artifact when cutting and combining section images from digitized core photos into total core images. Apparent 1.5 m wavelength banding is particularly evident in lighter colored sediments. An example can be seen in the composite image of Site 1218 between 150 and 200 corrected rmcd.

Results and discussion

Revised composite depth scales

Revised composite depth scales for Expedition 320 Sites U1331–U1334

Site U1331

The shipboard splice for Site U1331 (see the **"Site U1331"** chapter [Expedition 320/321 Scientists, 2010c]) was extensively revised (Figs. **F2, F3, F4;** Tables **T1, T2, T3**). The weak magnetic susceptibility and GRA signals in the siliceous ooze dominated the Eocene section of Site U1331, and frequent turbidites hampered straightforward correlation. The exact position and extent of turbidites is given in Table **T4.** The most problematic section is located around 35–40 rmcd (m revised CCSF-A), where a turbidite occurs that shows different thicknesses in each cored hole. This could be due to coring disturbance at the

top of the Hole U1331C or strong thickness variations of the turbidite itself. We improved the splice to 175 rmcd (m revised CCSF-A), resulting in a growth factor of 1.12 (Fig. F4). Detailed correlation showed that the shipboard declination record of Cores 320-U1331B-4H and 9H had to be flipped by 180°.

Site U1332

The shipboard splice for Site U1332 (see the "Site U1332" chapter [Expedition 320/321 Scientists, 2010d]) had to be moderately revised (Figs. F5, F6, F7; Tables T5, T6, T7). Good VGP, magnetic susceptibility, and GRA data enable improvement of the shipboard splice to 141 m revised CCSF-A, resulting in a growth factor of 1.09 (Fig. F7). At around 83 rmcd (m revised CCSF-A), a small gap in the data (Fig. F5) marks an uncertain tie point in the splice. However, detailed correlation to Sites U1331 and 1220 suggests no major break at the base of Chron C15n in the composite record of Site U1332 (see Fig. F23, 50–100 corrected rmcd).

Site U1333

The splice at Site U1333 (see the "Site U1333" chapter [Expedition 320/321 Scientists, 2010e]) needed no change in the upper 48 rmcd (m revised CCSF-A) (Figs. F8, F9, F10; Tables T8, T9, T10). Pronounced cycles in magnetic susceptibility and GRA data in this interval allowed the construction of a robust shipboard splice. Correlation to Sites U1334 and 1218 revealed an incorrect splice interval in the shipboard splice at Site U1333 around 48 rmcd (m revised CCSF-A). Readjustments of the splice reveal a 2 m gap in the shipboard splice, which has been eliminated by the new revised splice. Although the magnetic susceptibility signal is low between 82 and 132 rmcd (m revised CCSF-A), small distinct peaks can be correlated and then verified by VGP data (Fig. F8, 50–100 m). A minor change in the shipboard splice is required at 126 rmcd (m revised CCSF-A). We then follow the tie points of the shipboard splice to 151 rmcd (m revised CCSF-A) and maintain the complete uninterrupted splice to 156.44 rmcd (m revised CCSF-A). Below this depth, the splice can only be appended because there is no clear overlap between cores from adjacent holes. Between 180 and 200 rmcd (m revised CCSF-A), a composite record could be established mainly based on the VGP and magnetic susceptibility data. The new splice has a growth factor of 1.14 (Fig. F10).

Site U1334

At Site U1334 (see the "Site U1334" chapter [Expedition 320/321 Scientists, 2010f]), the shipboard splice was verified to 210 rmcd (m revised CCSF-A) (Figs. F11, F12, F13; Tables T11, T12, T13). Because of geochemical alteration of the magnetic susceptibility record, splicing was uncertain between 150 and 270 rmcd (m revised CCSF-A). Through extensive usage of augmented magnetic susceptibility, GRA, VGP, core images, and especially postcruise XRF core scanning data (T. Westerhold et al., unpubl. data; D. Liebrand et al., unpubl. data), we secured a complete composite record across the geochemically altered interval to 271 rmcd (m revised CCSF-A). Below this depth, we follow the shipboard splice with a major change in the interval from 297 to 306 rmcd (m revised CCSF-A). This change is important because it covers the interval before the Eocene/Oligocene boundary, which is characterized by strong fluctuations in calcium carbonate content (see the "Expedition 320/321 summary" chapter [Expedition 320/321 Scientists, 2010a]). Splicing this interval was a challenge because extended core barrel drilling produced strong biscuiting of the sediment. A complete splice was assembled for Site U1334 to 341 rmcd (m revised CCSF-A) with a growth factor of 1.16 (Fig. F13).

Revised composite depth scales for Leg 199 Sites 1218–1220

Before we accomplished a site-to-site correlation of Expedition 320 and Leg 199 sites, it was necessary to recheck the revised splices of Sites 1218 and 1219 (Pälike et al., 2005) and the shipboard splice of Site 1220 (Shipboard Scientific Party, 2002c).

Site 1218

At Site 1218 (Figs. F14, F15, F16; Tables T14, T15, T16), the revised splice had to be corrected below 210 corrected rmcd. Most of these adjustments benefited from detailed comparison to Site U1334. Prior to Expedition 320, Site 1218 was the only stratigraphically expanded and complete site from the equatorial Pacific covering the late Eocene and early Oligocene. The revisions are mainly in intervals with very high calcium carbonate content and low magnetic susceptibility. A complete splice can be constructed to 287 corrected rmcd, adding a growth factor of 1.11 (Fig. F16).

Site 1219

Changes to the splice of Site 1219 (Figs. F17, F18; Tables T17, T18) are very small, and thus we suggest continuing to use the table by Pälike et al. (2005) to construct a composite record.

Site 1220

In contrast, the shipboard splice of Site 1220 had to be corrected below 71 rmcd (Figs. F19, F20, F21; Ta-

bles T19, T20, T21). Compared to the shipboard splice the changes are minor, a few decimeters at most. The new revised composite record reached 136 rmcd and provided a growth factor of 1.10 (Fig. F21). Please note that Site 1220 was not part of the Pälike et al. (2005) splice revision. Therefore, this study is the first revision of the shipboard splice of Site 1220 and is indicated by the depth scale nomenclature revised meters composite depth (rmcd).

Cleaned magnetic susceptibility, GRA, and VGP data sets

For reference, we provide cleaned magnetic susceptibility and GRA density data sets for every spliced composite section of Sites U1331 (Table T22), U1332 (Table T23), U1333 (Table T24), and U1334 (Table T25). Cleaned magnetic susceptibility, GRA density, and VGP latitude data are compiled for Sites 1218 (Table T26), 1219 (Table T27), and 1220 (Table T28) (data sets are also available in "Supplementary material"). To obtain cleaned data we removed outliers and data collected close to end caps and cut out disturbed intervals (e.g., core tops). These data sets have been used for the subsequent site-to-site correlation and squeezing and stretching of core sections outside the spliced records. The mapping pairs from the squeezing and stretching can be used to position samples taken outside the splice to be placed into the new revised composite depth scales.

Site-to-site correlation

More than 800 dated paleomagnetic reversals are available for all PEAT sites (Pälike et al., 2009) and thus provide the perfect framework for the detailed intercalibration of all major fossil groups and refinement of magnetic polarity chrons, particularly in the Eocene. However, the shipboard preliminary paleomagnetic data from Expedition 320 used here have to be considered incomplete. To improve the quality of the magnetostratigraphy, stepwise demagnetization of U-channel samples accompanied by rock magnetic studies are being done as part of the postcruise science. High-quality and high-resolution paleomagnetic records covering the late Eocene, Oligocene, and early Miocene are available from Leg 199 (Pälike et al., 2005; Lanci et al., 2004, 2005). The sites from both expeditions presented here are ideal for the establishment of a fully integrated calibrated bio-, chemo-, and magnetostratigraphy for the early Eocene–early Miocene time interval for the equatorial Pacific. A prerequisite for successful integration of the stratigraphic data and subsequent assembly of the proposed equatorial Pacific Cenozoic megasplice is the correlation of decimeter-scale features in the sedimentary record from the drilled sites from both Leg 199 and Expedition 320/321 (Pälike et al., 2005, 2009). We follow the successful approach of previous deep-sea drilling expeditions (Shackleton et al., 1995, 1999; Shackleton and Crowhurst, 1997; Pälike et al., 2005; Westerhold and Röhl, 2006; Westerhold et al., 2007, 2008) by using physical property data (magnetic susceptibility and GRA) and XRF core scanning data to correlate site to site. In doing so we can transfer, for example, the high-resolution biostratigraphic data from one site to intervals of another site where, due to poor preservation, datums are not well constrained. Furthermore, we can locate hiatuses and condensed intervals that otherwise would not have been identified. For correlation, we first identified a reference site that has the most complete record and high sedimentation rates compared to the other sites. Then we correlated the other sites to the reference site by selecting tie points. We applied a linear interpolation of depth between tie points. Tie points are listed in Tables T29 and T30.

Correlation between Sites 1218, 1219, U1333, and U1334

Physical property data at Sites 1218, 1219, U1333, and U1334 show a remarkable match (Fig. F22) even though the sites are between 375 and 1100 km apart. All sites have an excellent magnetostratigraphy, and thus comparison of the VGP data indicate the high quality of correlation. We have chosen Site 1218 to be the reference site because Site 1218 is the most complete down to the Eocene/Oligocene boundary and has no geochemically altered interval, as found in the mid-Oligocene of Site U1334. The integrated record spans the interval from Chron C1 (Pleistocene) back to Chron C20 (middle Eocene) covering >40 m.y. of equatorial Pacific history. We correlated Sites 1219, U1333, and U1334 to Site 1218 (Table T29), providing a coherent and integrated record for the equatorial Pacific.

The correlation shows full coverage of magnetostratigraphy back to the base of early Oligocene Chron C11n.2n using Sites 1218 and U1334 alone. All four sites cover the interval from the base of Chron C6n to the base of C10n.2n (~20 to ~28 Ma) with a complete magnetostratigraphy. In the time span older than Chron C12n (~30.8 Ma), the magnetostratigraphic boundary positions can be transferred from Site U1333 to Sites 1218, 1219, and U1334 when necessary. The complete magnetostratigraphic record reaches back to the top of middle Eocene Chron C19n (~41 Ma).

Sedimentation rates in the section from 0 to 20 Ma at all sites are highest at Site 1218 (a low 0.35 cm/k.y.). Sites 1219 and U1333 have even lower sedimentation rates in that interval and a hiatus between the

Pliocene–Pleistocene and the lower Miocene (Pälike et al., 2009). All these sediments consist of clays deposited near or below the calcium carbonate compensation depth. In the upper 40 m of the integrated stratigraphy (Fig. F22), correlations are based on the VGP data because magnetic susceptibility and GRA data do not provide patterns that can be matched with certainty. Below that interval, matching of different records was straightforward. From 20 Ma to the Eocene/Oligocene boundary, Site U1334 has the highest sedimentation rate (1.6 cm/k.y.) of all the sites (Site 1218 = 1.3 cm/k.y., Site 1219 = 1.2 cm/k.y., and Site U1333 = 1.1 cm/k.y.). In the upper Eocene section, sedimentation rates are slightly lower because of the decreased carbonate content (see the "Expedition 320/321 summary" chapter [Expedition 320/321 Scientists, 2010a]). Two short condensed intervals were discovered: one at Site 1219 between 112 and 114 corrected rmcd and one at Site U1333 between 137 and 140 rmcd (m revised CCSF-A) (Fig. F22).

Correlation between Sites 1220, U1331, and U1332

Physical property data from Sites 1220, U1331, and U1332 show a remarkable match (Fig. F23), being only 120 to 270 km apart. Sites 1220 and U1332 have an excellent magnetostratigraphy from Chrons C6n to C20n (Table T31). Site U1331 sediment covers Chrons C11–C20n. We chose Site 1220 to be the reference site because it is the most complete for this interval. The correlation with Sites U1331 and U1332 (Table T30) provides a coherent and integrated record.

All three sites show rather low sedimentation rates (~0.5 cm/k.y.) compared to the shallower sites (1218, 1219, U1333, and U1334) (Fig. F24). The upper Eocene sediments are dominated by siliceous ooze and almost entirely lack carbonate sediment. The dominance of siliceous ooze leads to low variability in the GRA density; hence, correlation could only be achieved using magnetic susceptibility data. The comparison of the VGP data suggests a very good match of the three sites in the Eocene. The increased sedimentation rate at Site U1331 in the Eocene is an artifact of the frequent turbidites in the record. The correlation of the Oligocene and Miocene section is straightforward to 28 rmcd (Fig. F23). Above this, Site 1220 can only be matched to Site U1332 using VGP data.

Radiolarians in the tropical Pacific

Cenozoic radiolarian stratigraphy of the tropics was largely developed in sediments from the Pacific Ocean; however, it did not begin to reach its full potential until Leg 199 studies were completed by Nigrini et al. (2006). This work, combined with that of earlier studies (e.g., Moore, 1995), sought to tie radiolarian datums to a paleomagnetic timescale that could be tuned to orbital frequencies. These studies also greatly expanded the number of first and last occurrences of species that were recorded and calibrated. This effort took advantage of the many important taxonomic and stratigraphic papers that have appeared over the last 50 years, in particular those written by such authors as William Riedel, Annika Sanfilippo, Catherine Nigrini, David Johnson, and Jean Westberg, who focused much of their efforts on material collected in the tropical Pacific.

Expedition 320 was very successful in recovering Pacific Cenozoic sections deposited on or very close to the paleoequator. Two of these drilled sites (U1333 and U1334) recovered what appear to be complete sections across the Eocene/Oligocene boundary. Only one other section, from Site 1218, has been recovered in the tropical Pacific that clearly shows the "two-step" shift in lithology and geochemistry at this boundary that we believe marks a truly complete stratigraphic section (Coxall et al., 2005). Using the stratigraphic datums defined primarily in Nigrini et al. (2006), we were able to provide very detailed stratigraphic control on the sections recovered during Expedition 320 (Tables T32, T33, T34, T35, T36, T37, T38). While producing this detailed integrated stratigraphy of the equatorial Pacific, we have had to deal with some complicated stratigraphic problems that still need to be fully addressed.

Reworking and mixing of older specimens into younger sections

Finding reworked older radiolarian specimens in younger sediments plagued the development of a reliable radiolarian stratigraphy in its early days. Such reworking was commonly found in piston cores and gravity cores from the tropical Pacific (e.g., Riedel and Funnell, 1964), and it was not until the Deep Sea Drilling Project (DSDP) and ODP started to collect thick pelagic sections that we were able to begin to develop a reliable sequence of first and last appearances of species. In studying these sections, several important observations have been made: (1) the reworked older forms were never older than the age of the crust on which the sediment lay, (2) reworking of older forms is most common in the upper parts of recovered sections, and (3) reworking of older forms from the Eocene is commonly found around the Eocene/Oligocene boundary and is often associated with a hiatus at this boundary (Moore et al., 1978;

Moore, 1995). Because many of the biostratigraphic datums near the uppermost part of the Eocene are last appearances, the dependability of such datums are highly suspect and their calibration to a timescale is still open to question.

Taxonomic definition

Nigrini et al. (2006) described 12 new species, several of which are important in defining the Eocene/Oligocene boundary and in refining the stratigraphy of the Oligocene. These new species require the test of time and usage to make sure their definitions adequately encompass the characteristics and variability of their form. Similarly, other species may need modification of their descriptions in order to more consistently define biostratigraphic datums. Only a small percentage of the total number of radiolarian species present at any given time has been identified as being stratigraphically useful (Riedel and Sanfilippo, 1978). Further work in this area will continue to expand the resolution possible using radiolarian stratigraphy.

Preservation

Radiolarians are generally well preserved in the tropical Pacific; however, they are subject to dissolution, particularly just above basement and at levels of chert formation. Aside from these two problems, Eocene radiolarians are particularly robust (Moore, 1969; Lazarus et al., 2009), and, with their very diverse fauna, usually provide good stratigraphic control. Preservation in the Oligocene of the sites studied, however, is often only moderate and sometimes quite poor. It has yet to be determined if this variation in Oligocene preservation is site specific or time specific.

The radiolarian stratigraphic data presented herein represent a work in progress. Additional samples are being studied and the detailed site-to-site correlation that has been developed by the work presented here will be used to further refine the positions of individual biostratigraphic datums. Some of this more detailed work is shown in the radiolarian data tables (denoted by "Revised" in the column labeled "Source"). There remain many apparent small discrepancies in the levels of individual datums at different sites. It is yet to be determined whether these discrepancies are a result of reworking of radiolarians above or below the true level of the datum, a failure to recognize the presence of a rare species near its first or last appearance, a true diachrony of the datum, or a minor miscorrelation of the lithologic records themselves. Until these discrepancies can be studied further, we use the age assigned each of the datums as published by Nigrini et al. (2006).

Calcareous nannofossils

Shipboard calcareous nannofossil biostratigraphy provided critical age control during Leg 199 and Expedition 320, allowing for the identification of paleomagnetic reversals and the development of composite sections, especially within the successions of carbonate-rich Oligocene–Miocene nannofossil oozes. The new correlations presented here enable more refined assessments of the timing and controls on the expression of calcareous nannofossil datums in the equatorial Pacific. The presented tables of nannofossil datums (Tables **T39, T40, T41, T42, T43, T44, T45**) are a compilation of data from both shipboard and postcruise biostratigraphy from Expedition 320 and Leg 199 (Shipboard Scientific Party, 2002a, 2002b, 2002c; Pälike et al., 2006; see also "Biostratigraphy" in each site chapter [Expedition 320/321 Scientists, 2010c, 2010d, 2010e, 2010f]). Calibration ages for calcareous nannofossil datums from the Leg 199 timescale were made consistent with those of Expedition 320 (bottom [B] *Sphenolithus ciperoensis* at 27.1 Ma rather than 28.1 Ma; B *Sphenolithus distentus* at 30.0 Ma rather than 30.4 Ma; top [T] *Reticulofenestra umbilicus* at 32.0 Ma rather than 31.7 Ma), as were taxonomic concepts (use of *Coccolithus formosus* rather than *Ericsonia formosa*). These changes do not imply that the datum ages used during Expedition 320 are better calibrated than those used during Leg 199; revisions were undertaken prior to Expedition 320 partly based on postcruise work from Leg 199 material (e.g., Blaj et al., 2009). For example, during Expedition 320 it became clear that the Leg 199 biostratigraphic datum age of 28.1 Ma for B *S. ciperoensis* produced a better fit within the integrated stratigraphy than the revised age provided by Blaj et al. (2009) used during Expedition 320/321 of 27.1 Ma. These discrepancies are likely due to differences in taxonomic concept and boundaries within the intergrading Oligocene sphenolith lineage *Sphenolithus predistentus-distentus-ciperoensis*. Ongoing postcruise taxonomic and biostratigraphic work will address these issues.

Placing the existing calcareous nannofossil biostratigraphy of Leg 199 and Expedition 320 within the framework of these new stratigraphic correlations clearly shows that the accurate placement of calcareous nannofossil events is compromised by the occurrence of intervals with low or no carbonate deposition during the middle to late Eocene. A clear example of this is the placement of the latest Eocene event T *Discoaster saipanensis* (see Tables **T42, T43, T44**). This event is well constrained at Site 1218 at 244.52 ± 0.06 corrected rmcd and at Site U1334 at 301.33 ± 0.53 rmcd (m revised CCSF-A) (equal to 243.29 ± 0.45 corrected rmcd [Site 1218]). But this

event is poorly constrained at Site 1219 within the interval 190.06 ± 13.83 rmcd (equal to 254.66 ± 12.03 corrected rmcd [Site 1218]), although the identified range is fully consistent with the stratigraphy of Sites 1218 and U1334. Where there is continuous carbonate sedimentation and reasonable nannofossil preservation, most of the nannofossil datums correlate among these equatorial Pacific sites within the accuracy of the current sampling resolution (e.g., top of *R. umbilicus* placed at 221.42, 222.97, 224.44, and 220.99 corrected rmcd [Site 1218] at Sites 1218, 1219, U1333, and U1334, respectively). Notable exceptions to this are the placement of the base and top of *S. ciperoensis* and the top of *S. distentus*. The base of *S. ciperoensis* is relatively consistent between Sites 1218, 1219, and U1333 at ~144 corrected rmcd (Site 1218), but *S. ciperoensis* is first noted at low abundance ~20 m lower at Site U1334 at ~164 corrected rmcd (Site 1218). This suggests the initial evolutionary appearance of *S. ciperoensis* is followed by a period of low abundance in the equatorial Pacific and then a marked abundance increase that is picked as the "B *S. ciperoensis*" in the majority of these study sites. The top of *S. ciperoensis* is also depressed by ~20 m at Site U1333 (~130 corrected rmcd [Site 1218]) with respect to the other sites (~111 corrected rmcd [Site 1218] at Sites 1218, 1219, and U1334); again, this may be due to low abundances at the top of this species' range. The top of *S. distentus* is placed ~10 m higher in the biostratigraphy of Leg 199 than that of Expedition 320 (~130 corrected rmcd [Site 1218] at Sites 1218 and 1219 versus ~140 corrected rmcd [Site 1218] at Sites U1333 and U1334). This most likely reflects slightly different taxonomic concepts applied by different workers or simply the difficulty in applying consistent taxonomy in a complex species plexus undergoing gradual change, as we observe within this lineage of Oligocene sphenoliths. Improving the taxonomic definition of these sphenolith lineages and determining the abundance patterns and timing of their origin and extinction will be the focus of ongoing detailed biostratigraphic studies.

Reworked calcareous nannofossils were identified in limited intervals of the Oligocene at the top of Site U1331, associated with suspected gravity flow deposits. These intervals were easily identified during shipboard biostratigraphy, and reworking of older nannofossils into younger strata is not thought to have affected the placement of nannofossil datums. The stratigraphic framework presented here is an excellent basis for ongoing detailed assessments of late Eocene–Oligocene nannofossil bioevents, with a particular focus on the improved age resolution and the identification of genuine diachrony across the eastern equatorial Pacific. The integration of both radiolarian and calcareous nannofossil biostratigraphy proved essential for shipboard operations during both Leg 199 and Expedition 320, which both spanned the major lithologic transition from Eocene radiolarian oozes to Oligocene–Miocene calcareous nannofossil oozes. Continued biostratigraphic work on material recovered during these two expeditions and Expedition 321 should produce a greatly improved integrated tropical Pacific radiolarian-nannofossil biostratigraphy of the last ~50 m.y.

Summary

We revised the shipboard composite sections of Sites U1331, U1332, U1333, and U1334 from Expedition 320 and Sites 1218, 1219, and 1220 from Leg 199 using shipboard magnetic susceptibility data, GRA bulk density data, natural remanent magnetization data, and core images. Drilling distortions in cores are compensated by differential squeezing and stretching of parallel cores outside the splice at all investigated sites. This is of major importance because we want to integrate all available data from all drilled holes. A detailed site-to-site correlation was performed. We linked the revised composite sections of Sites U1333, U1334, and 1219 to the corrected rmcd of Site 1218. Sites U1331 and U1332 were correlated to the revised composite record of Site 1220. We chose Sites 1218 and 1220 as reference sites because of their stratigraphic completeness. The decimeter-scale correlation was used to integrate and transfer paleomagnetic and biostratigraphic information. Our integrated stratigraphic framework presented here can be used as the backbone for the late Eocene, Oligocene, and early Miocene intervals of the equatorial Pacific Cenozoic megasplice. Because of the presence of clear paleomagnetic records and decimeter-scale cyclic features, the investigated sediments are exceptionally suitable for further working on cyclostratigraphy and orbital tuning. The integration of Expedition 320 and Leg 199 data has the potential to substantially improve the existing geological timescale (Gradstein et al., 2004) and even extend the astronomically calibrated timescale (Lourens et al., 2004; Pälike et al., 2006) far back into the Eocene.

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Figure F1. Location map of sites used in this study (red stars) and additional IODP/ODP/DSDP sites. F.Z. = fracture zone (modified from Pälike et al., 2009).

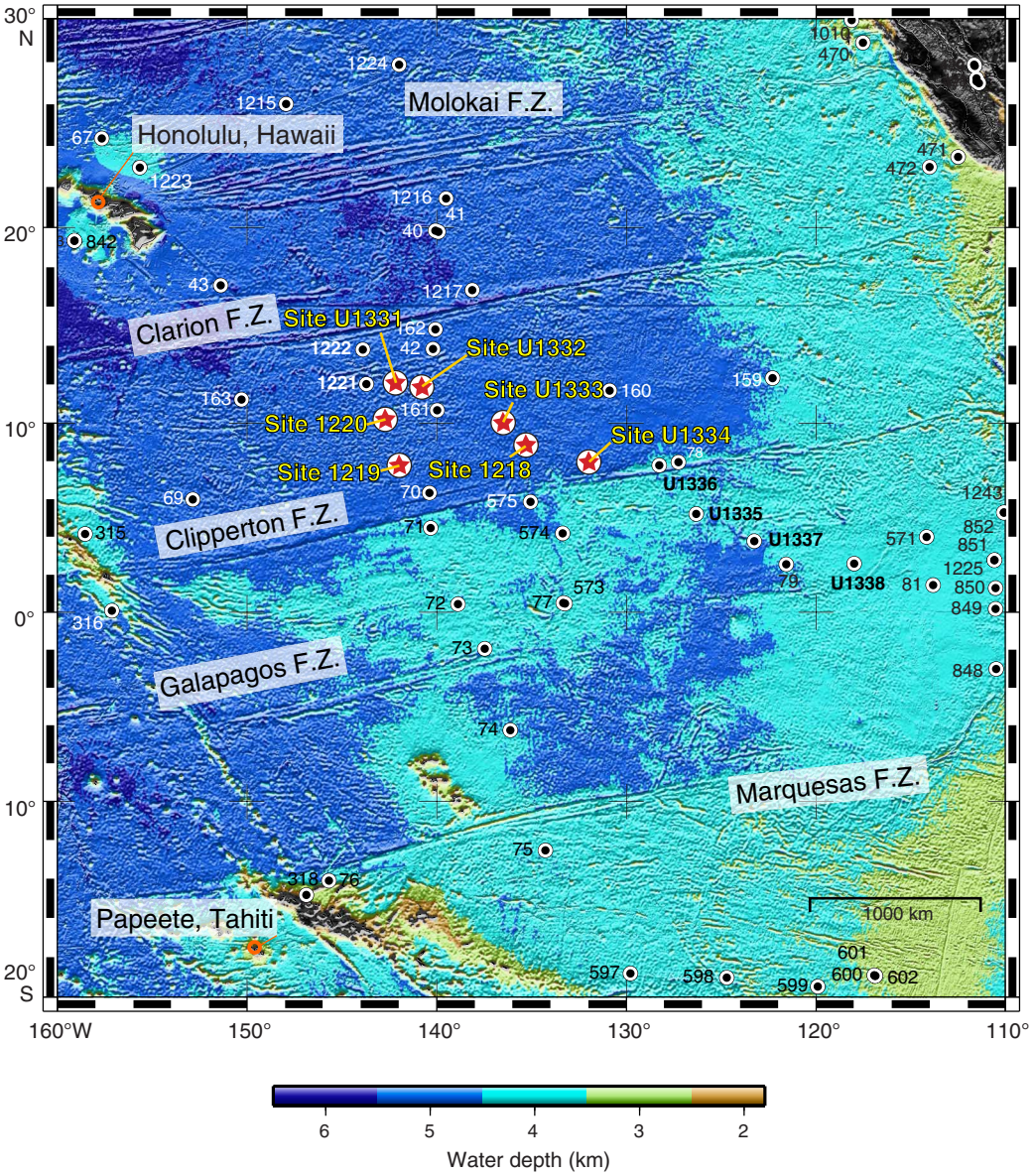


Figure F2. Site U1331 paleomagnetic and physical property data on rmcd (m revised CCSF-A) scale. Splice map and spliced core image on the left side, turbidite location on the right side. VGP = virtual geomagnetic pole, GRA = gamma ray attenuation. Red = Hole U1331A, blue = Hole U1331B, green = Hole U1331C, black = composite record. Composite record line is discontinuous because of distortion and data gaps. DI = drilled interval. (Continued on next three pages.)

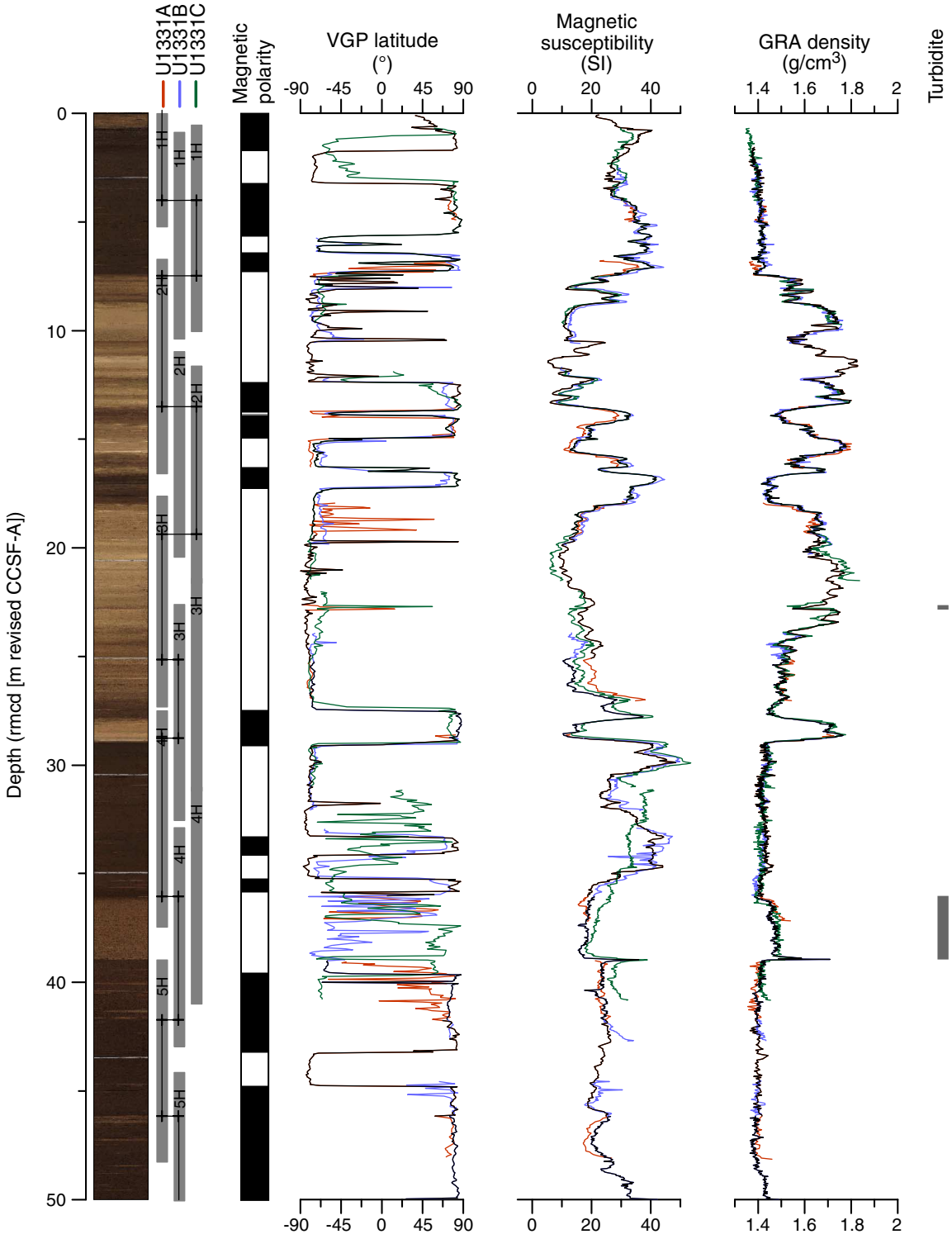
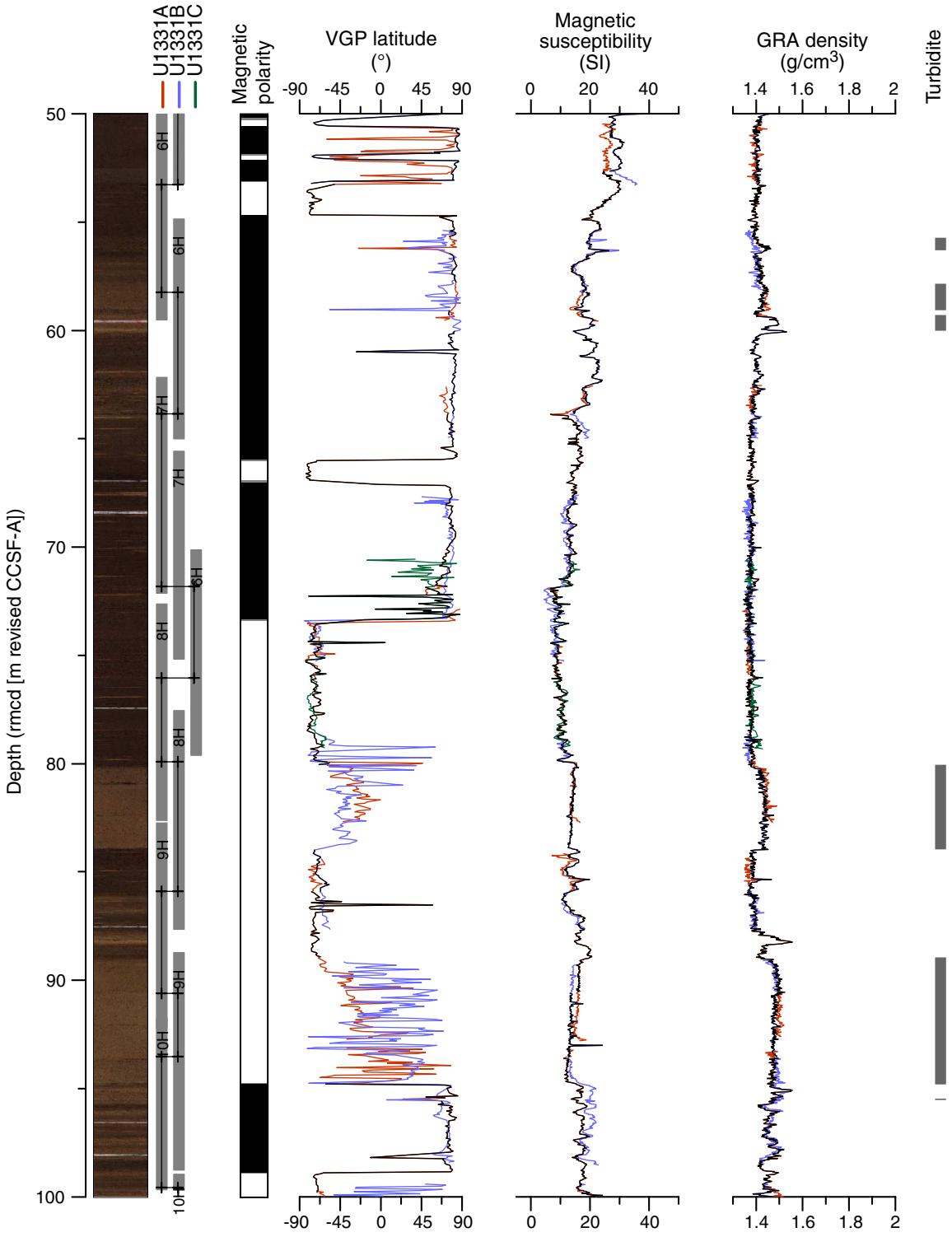


Figure F2 (continued). (Continued on next page.)



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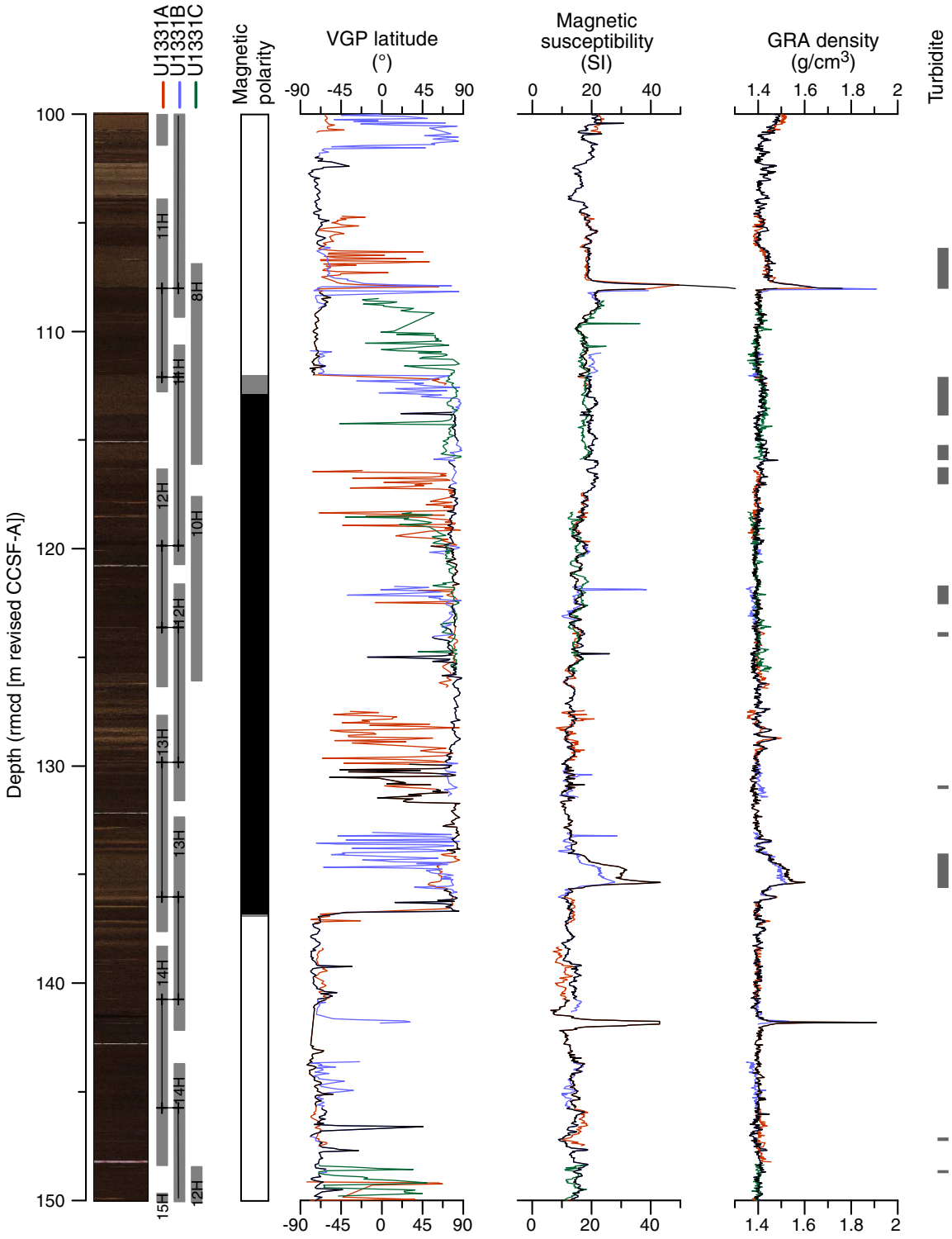

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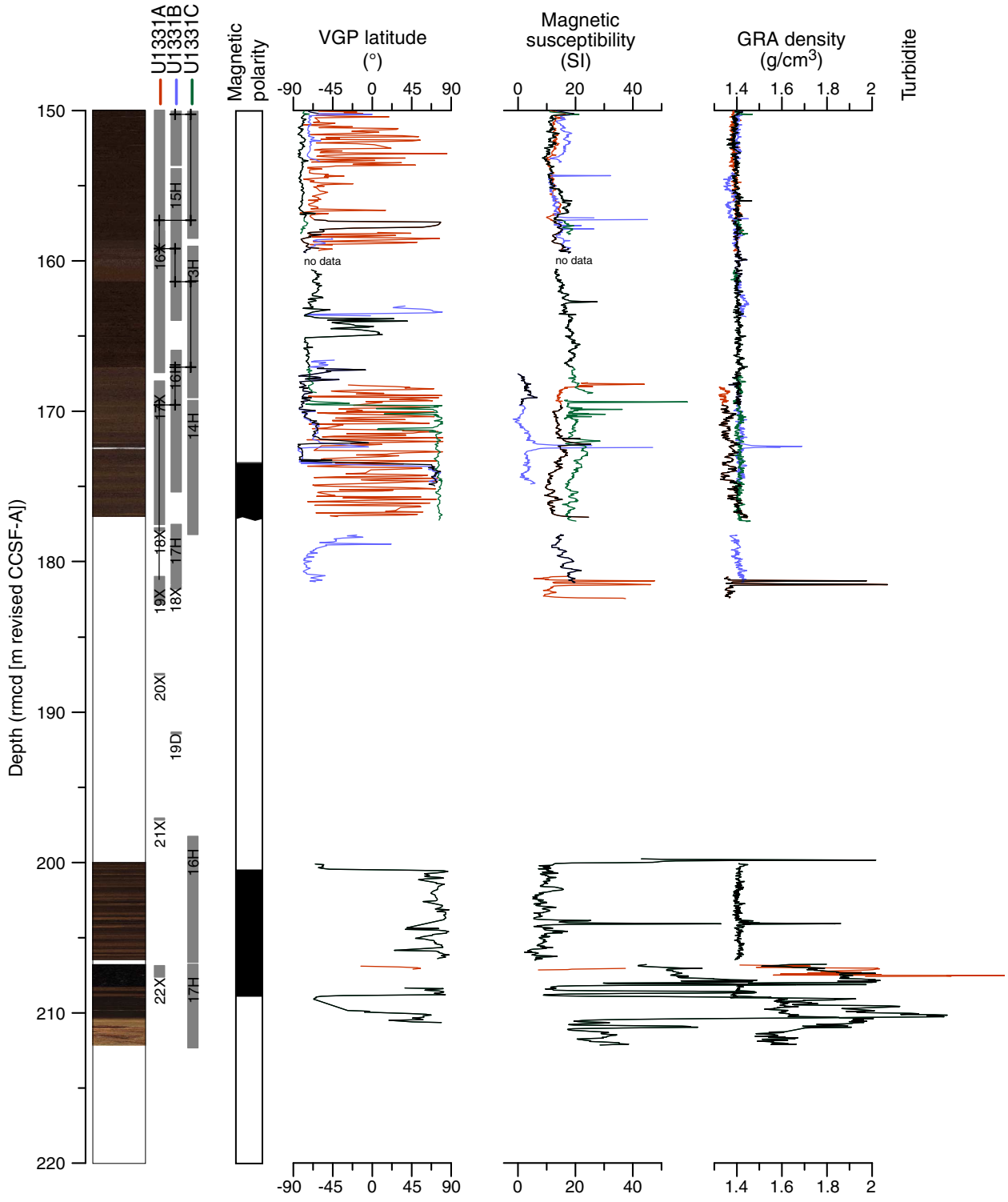


Figure F3. Digital line scan images, Site U1331. Red lines are the tops of splice sections and yellow lines are the bases of those sections (tie to next section). Images were depth registered by R. Wilkens using IGOR-Pro software.

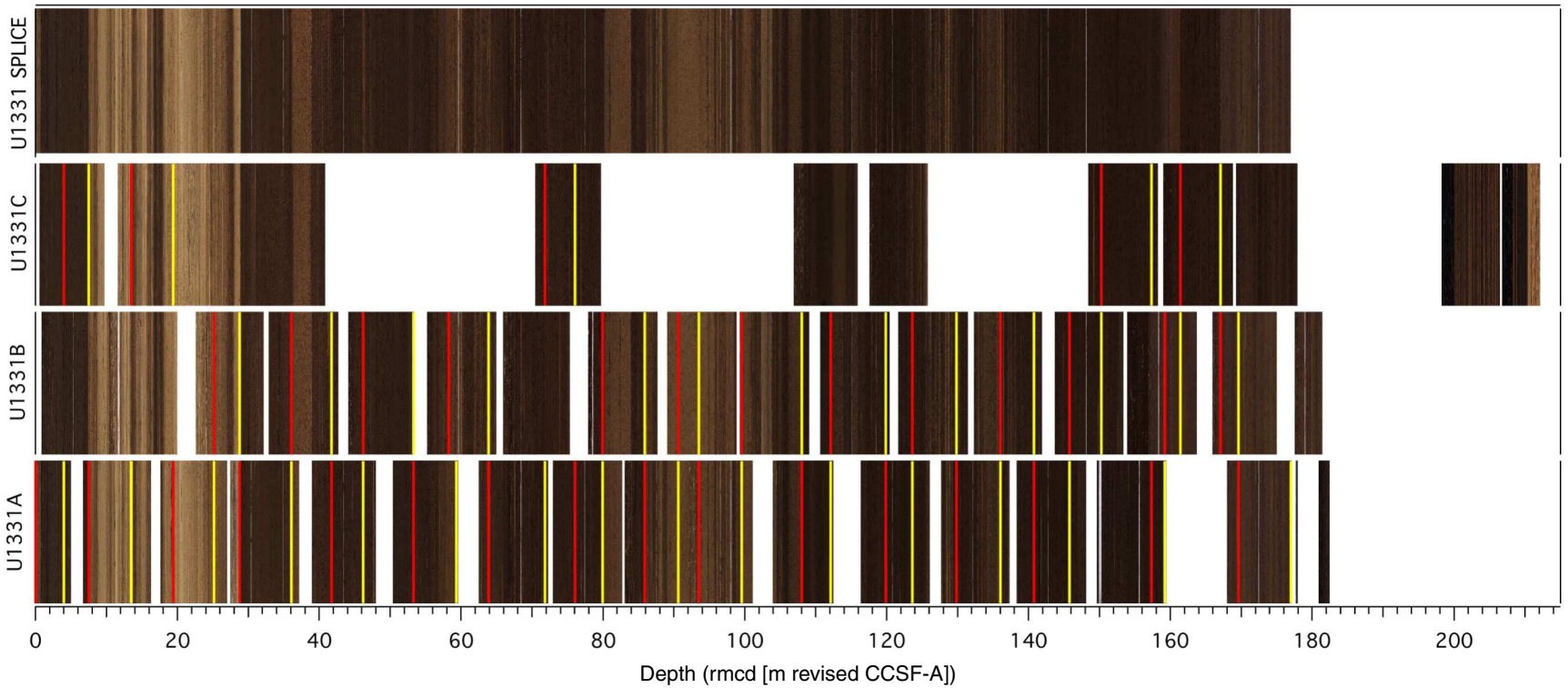


Figure F4. Growth factor calculated by plotting revised composite depth (rmcd [m revised CCSF-A]) against drilled core depth (CSF-A), Site U1331.

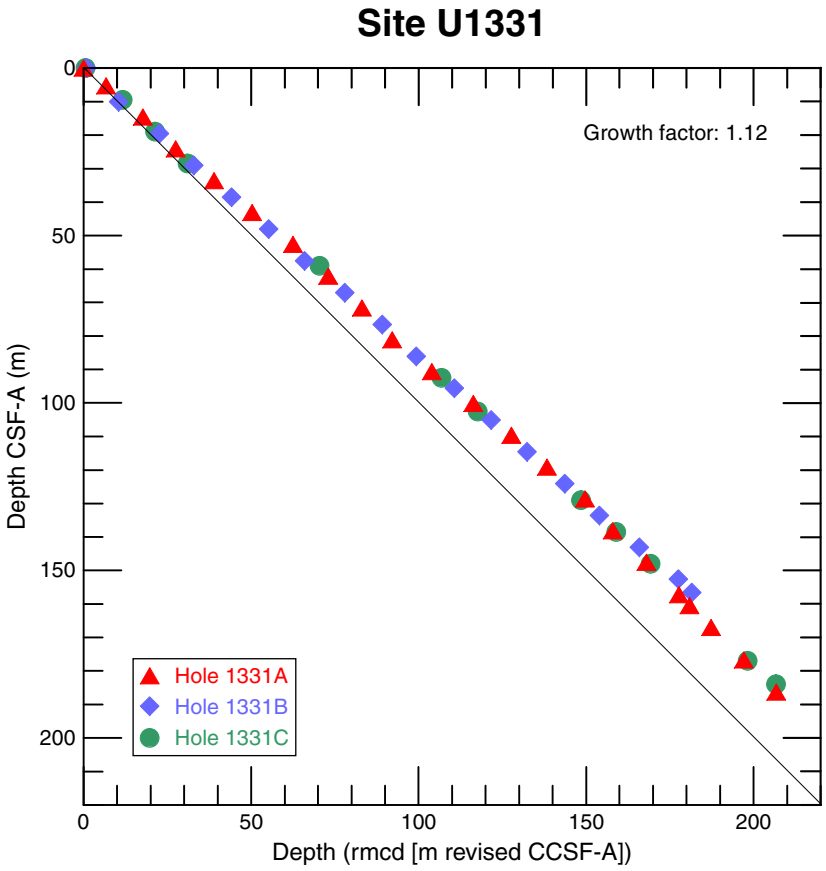
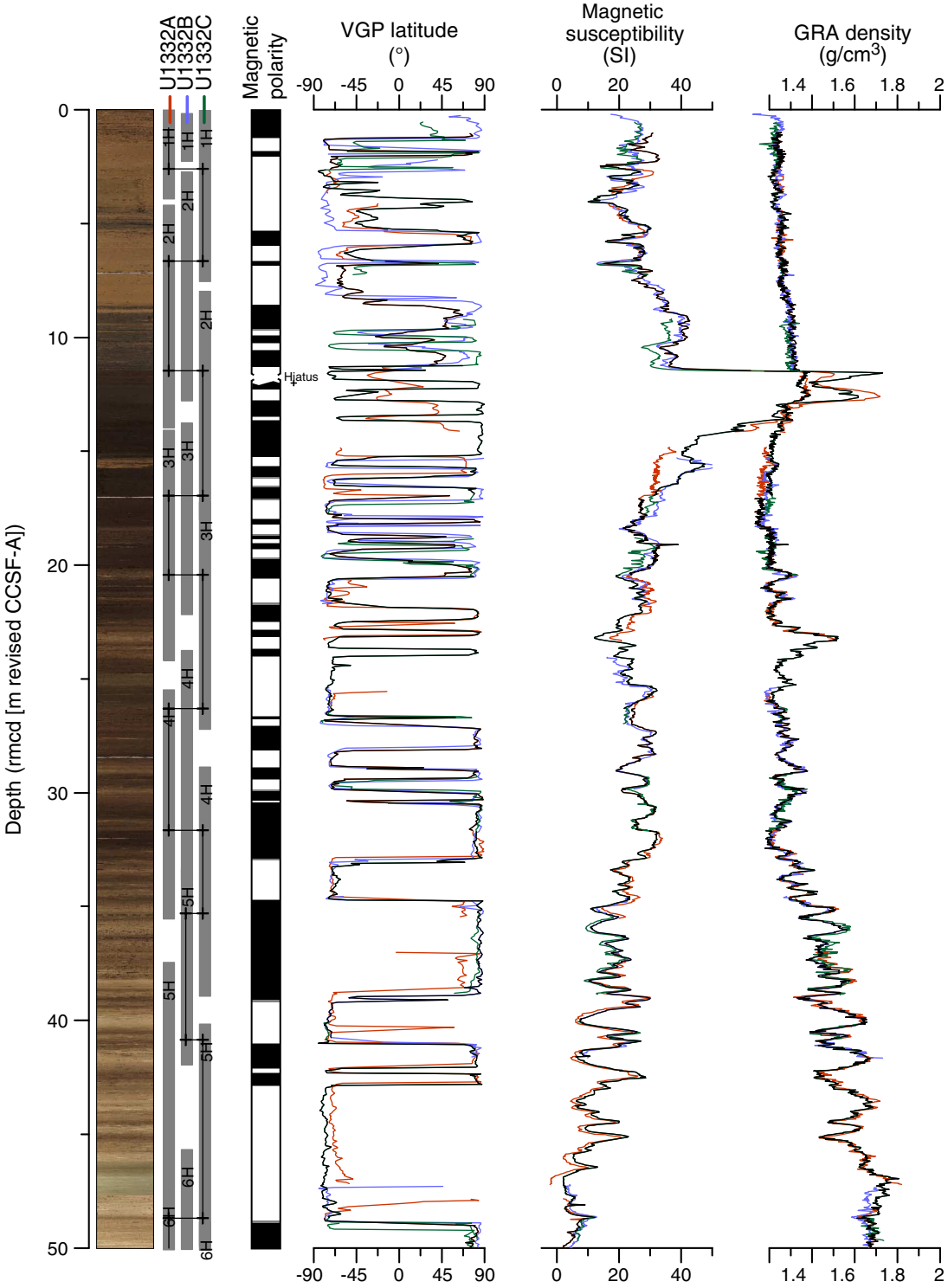


Figure F5. Site U1332 paleomagnetic and physical property data on rmcd (m revised CCSF-A) scale. Splice map and spliced core image on the left side. VGP = virtual geomagnetic pole, GRA = gamma ray attenuation. Red = Hole U1332A, blue = Hole U1332B, green = Hole U1332C, black = composite record. Composite record line is discontinuous because of distortion and data gaps. (Continued on next two pages.)



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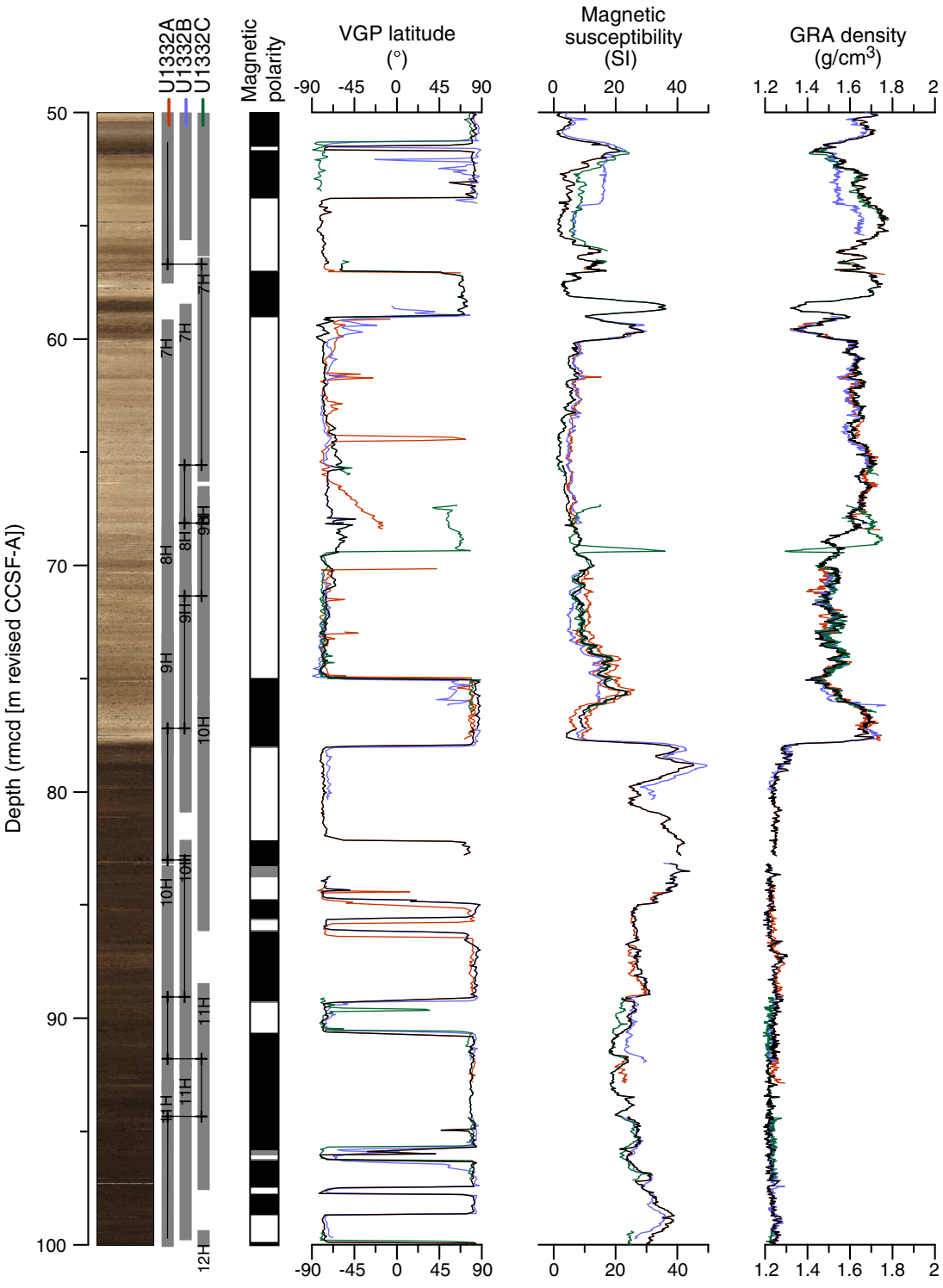

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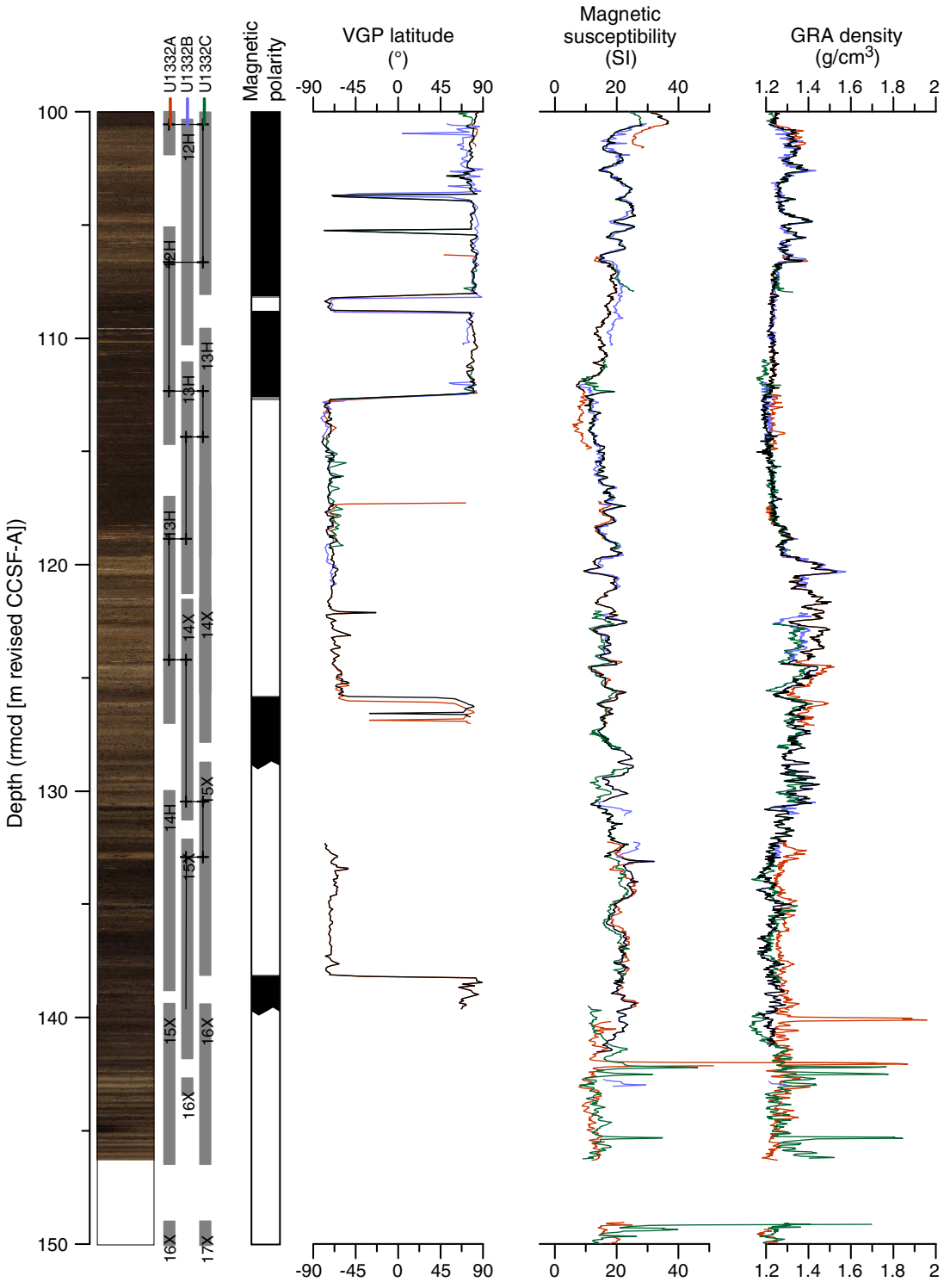


Figure F6. Digital line scan images, Site U1332. Red lines are the tops of splice sections and yellow lines are the bases of those sections (tie to next section). Images were depth registered by R. Wilkens using IGOR-Pro software.

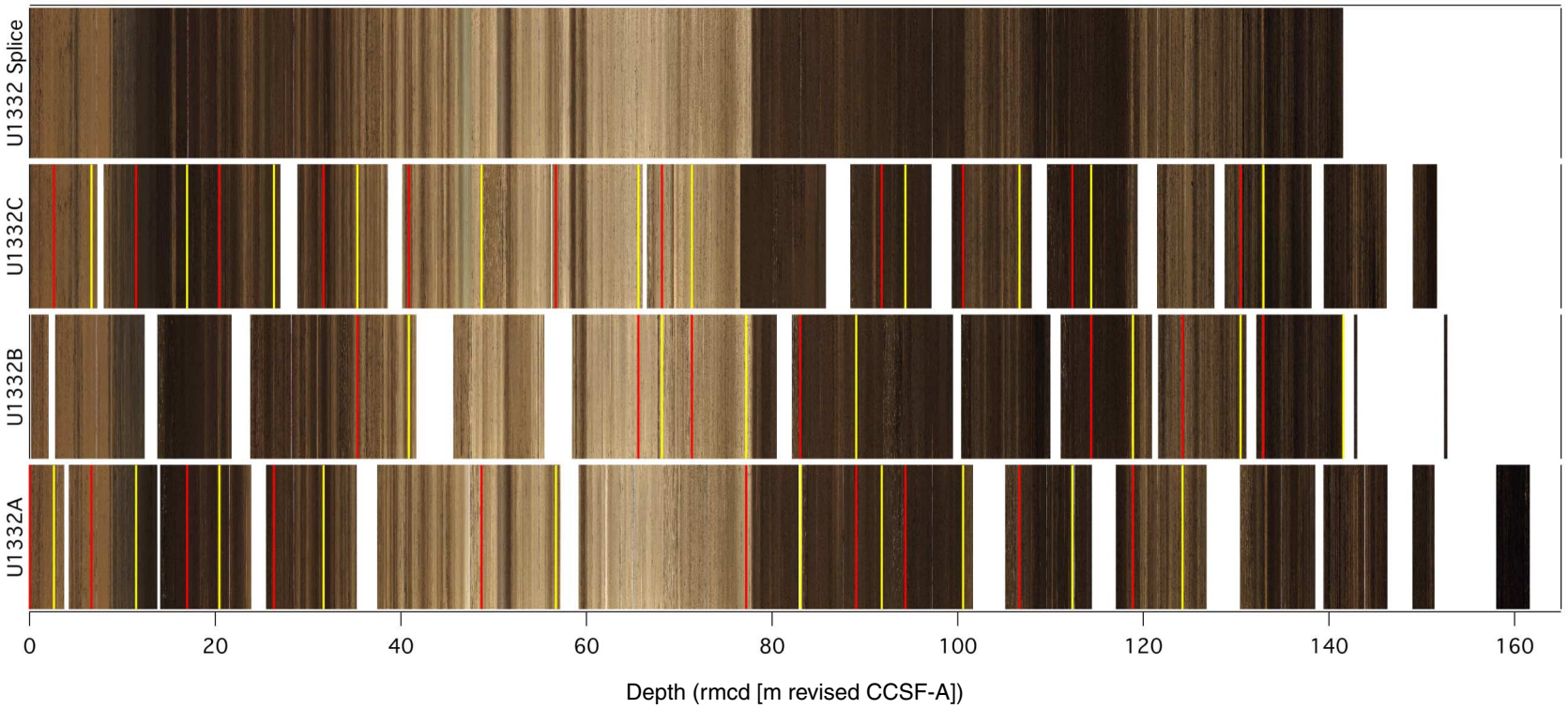


Figure F7. Growth factor calculated by plotting revised composite depth (rmcd [m revised CCSF-A]) against drilled core depth (CSF-A), Site U1332.

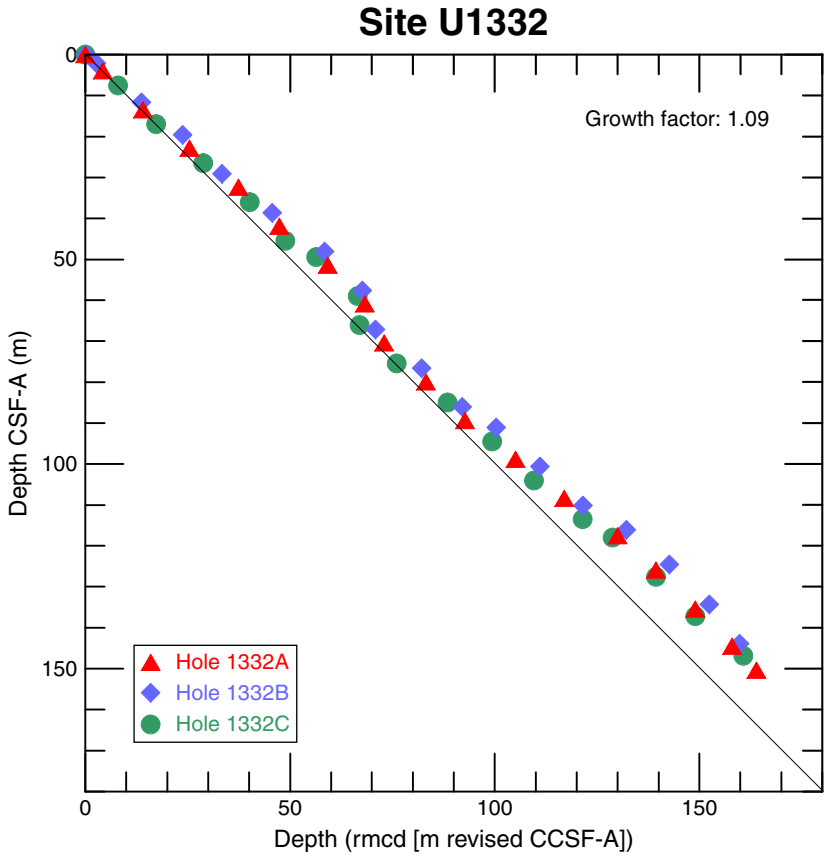


Figure F8. Site U1333 paleomagnetic and physical property data on rmcd (m revised CCSF-A) scale. Splice map and spliced core image on the left side. VGP = virtual geomagnetic pole, GRA = gamma ray attenuation. Red = Hole U1333A, blue = Hole U1333B, green = Hole U1333C, black = composite record. Composite record line is discontinuous because of distortion and data gaps. (Continued on next three pages.)

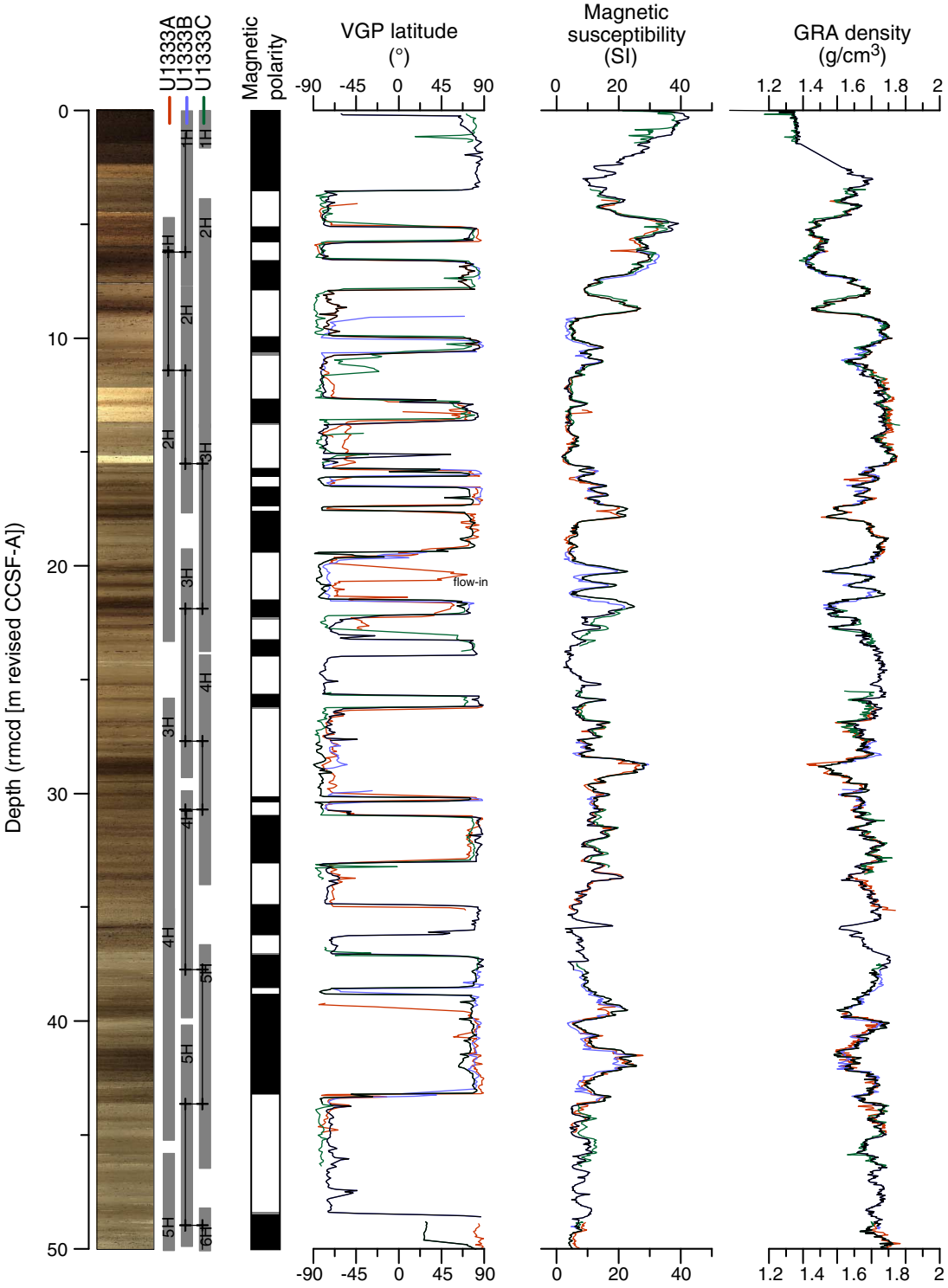


Figure F8 (continued). (Continued on next page.)

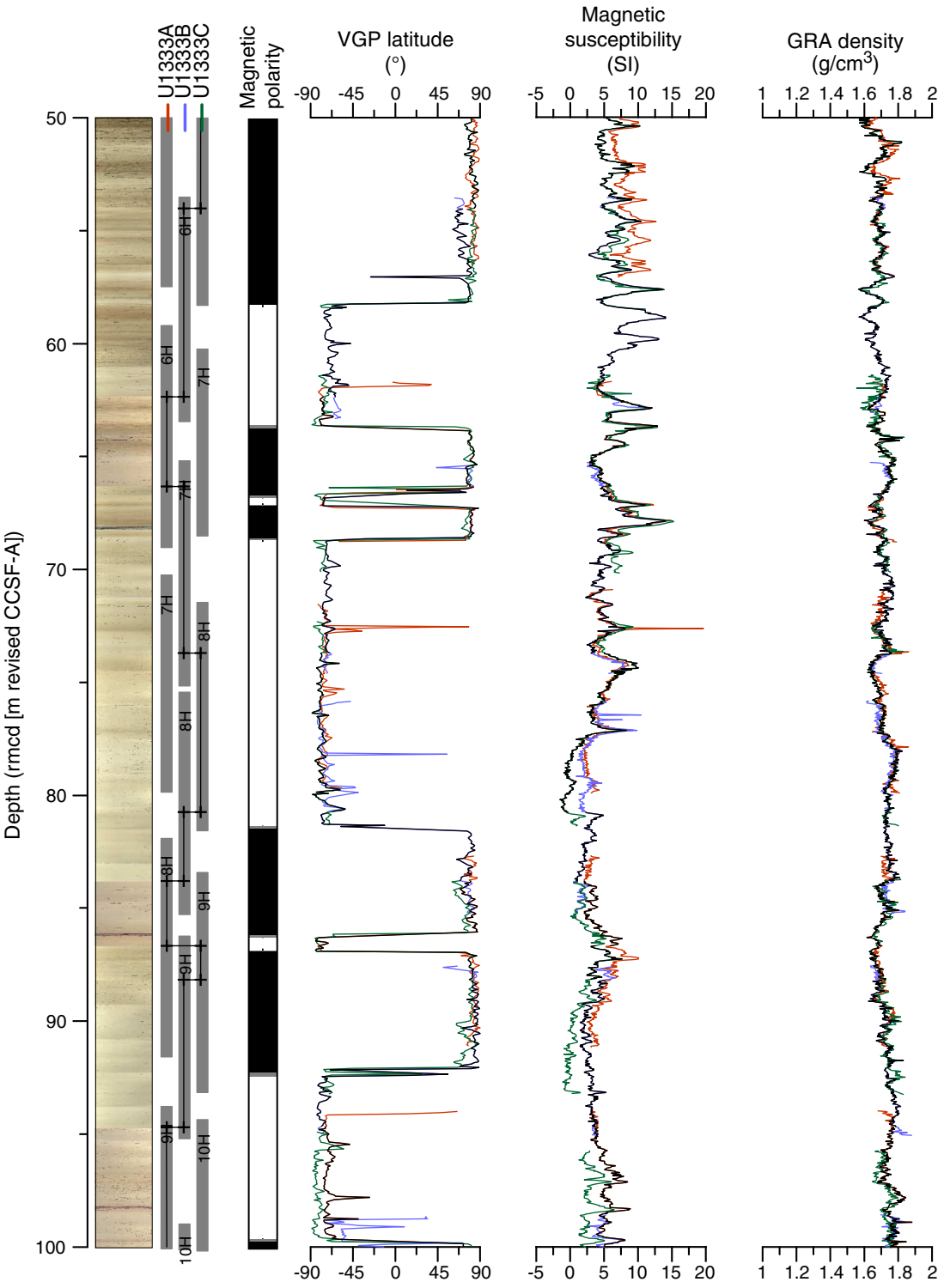


Figure F8 (continued). (Continued on next page.)

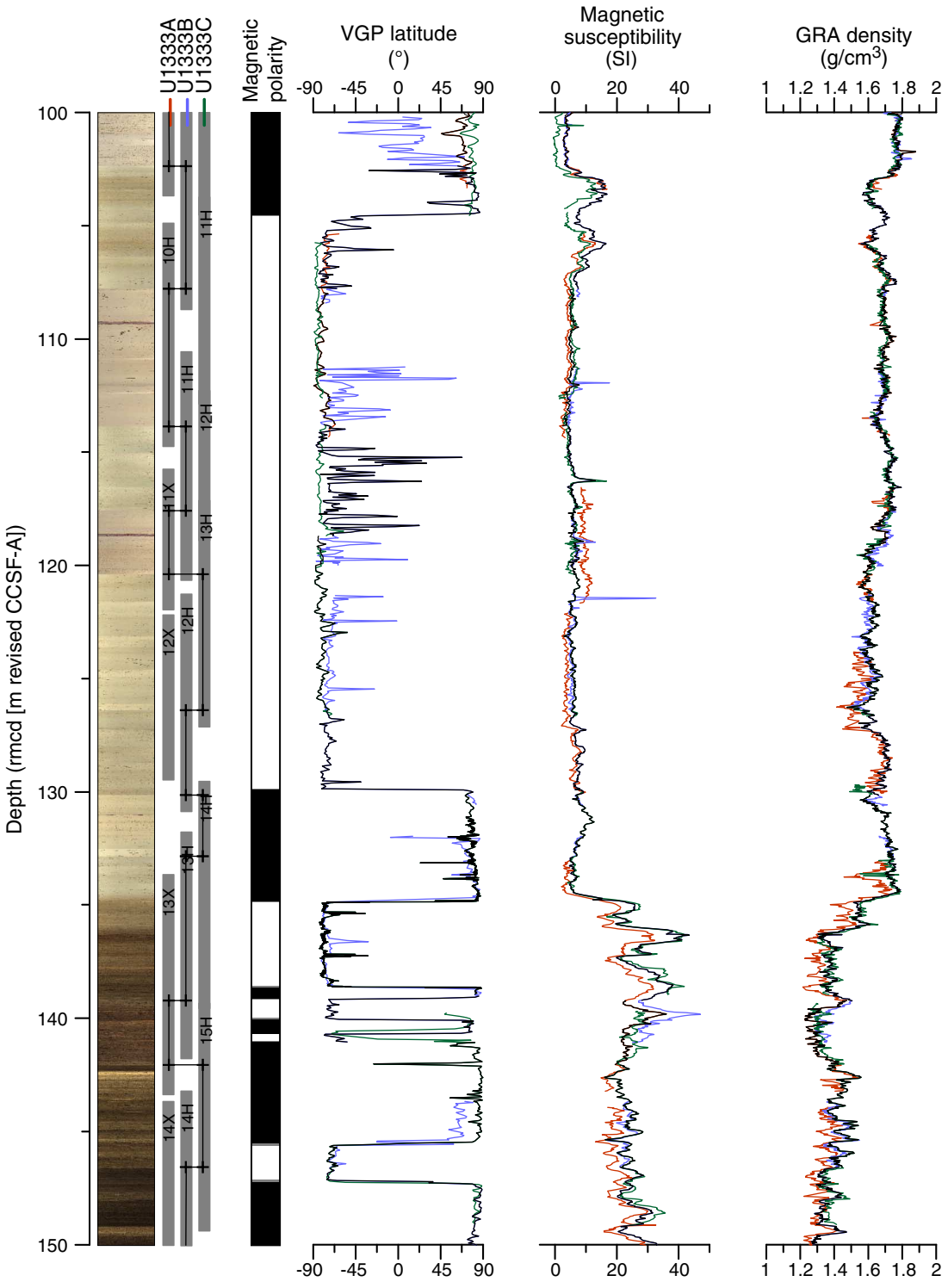
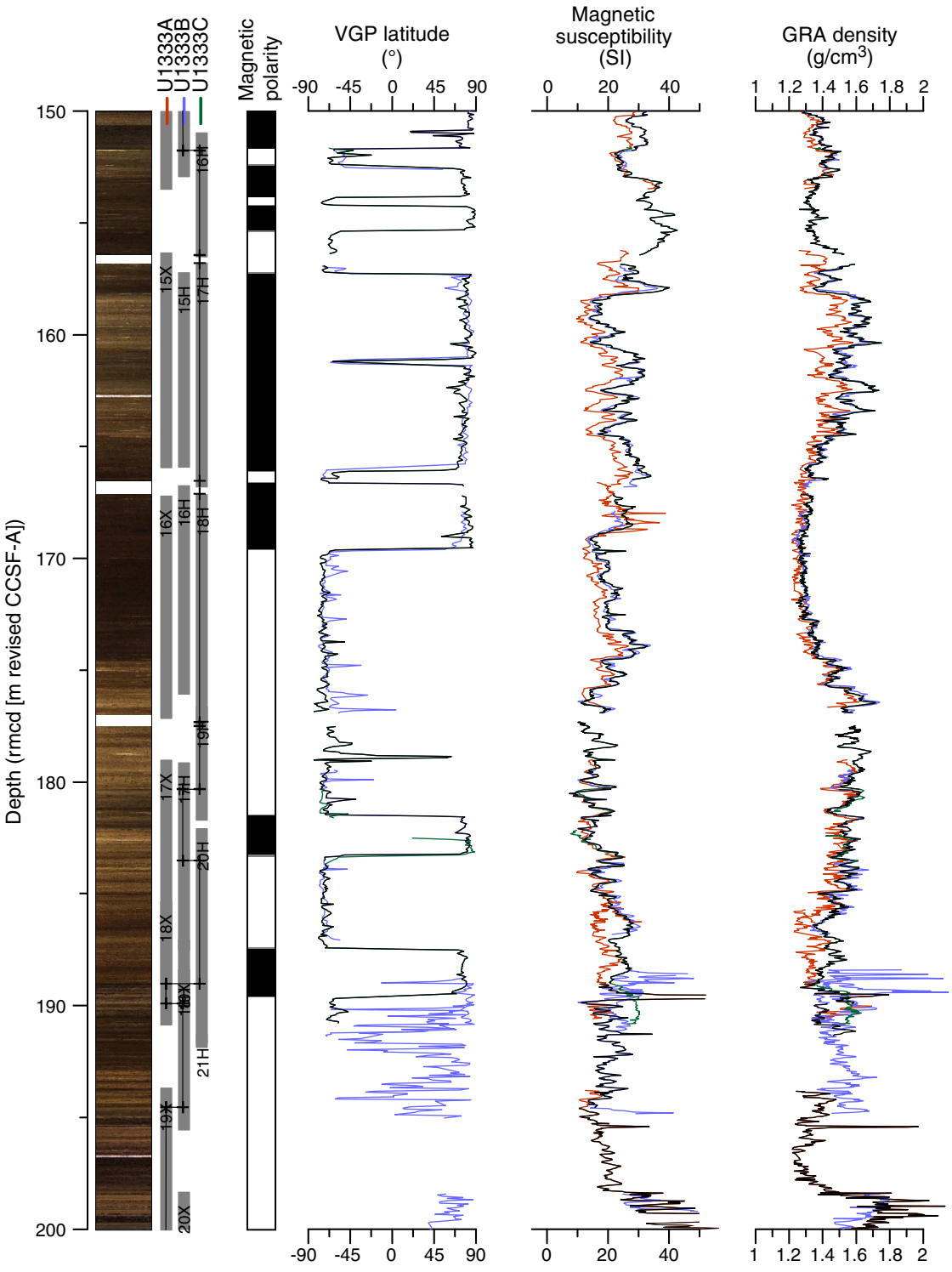


Figure F8 (continued).



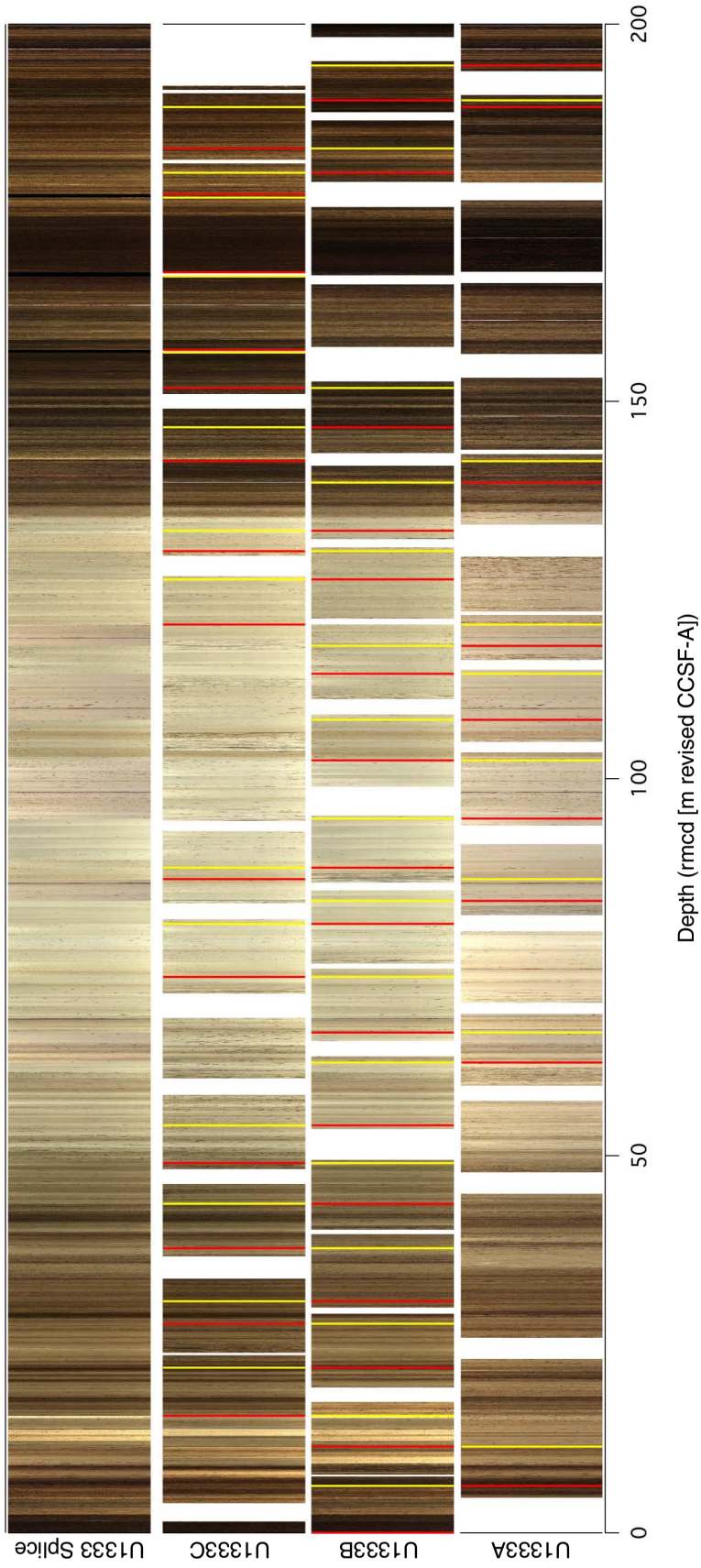


Figure F9. Digital line scan images, Site U1333. Red lines are the tops of splice sections and yellow lines are the bases of those sections (tie to next section). Images were depth registered by R. Wilkens using IGOR-Pro software.

Figure F10. Growth factor calculated by plotting revised composite depth (rmcd [m revised CCSF-A]) against drilled core depth (CSF-A), Site U1333.

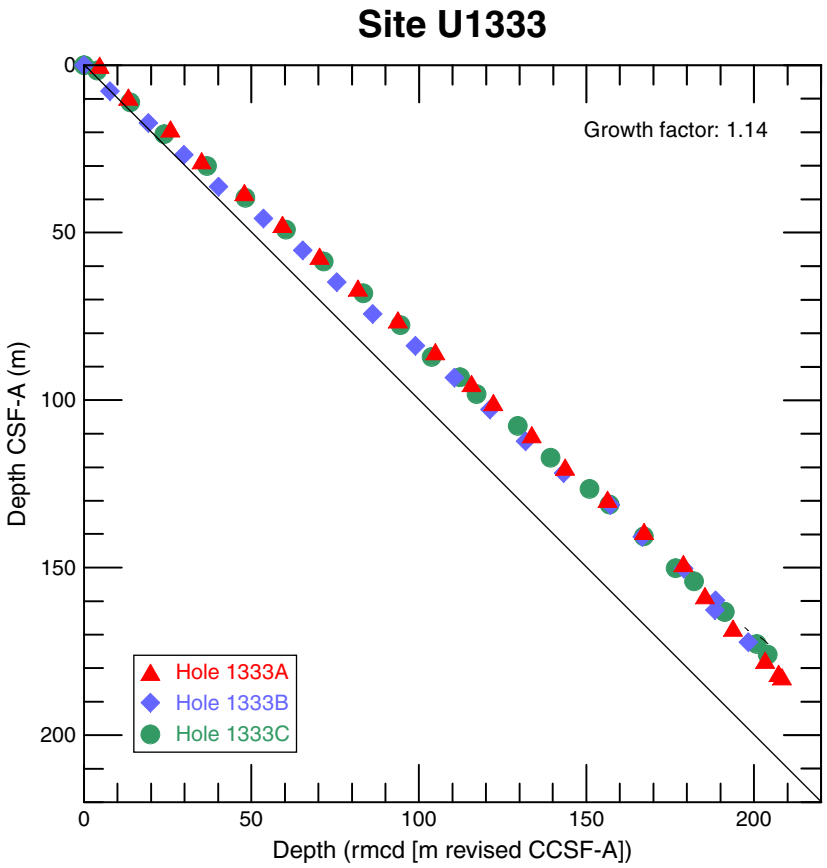


Figure F11. Site U1334 paleomagnetic and physical property data on rmcd (m revised CCSF-A) scale. Splice map and spliced core image on the left side. VGP = virtual geomagnetic pole, GRA = gamma ray attenuation. Red = Hole U1334A, blue = Hole U1334B, green = Hole U1334C, black = composite record. Composite record line is discontinuous because of distortion and data gaps. (Continued on next six pages.)

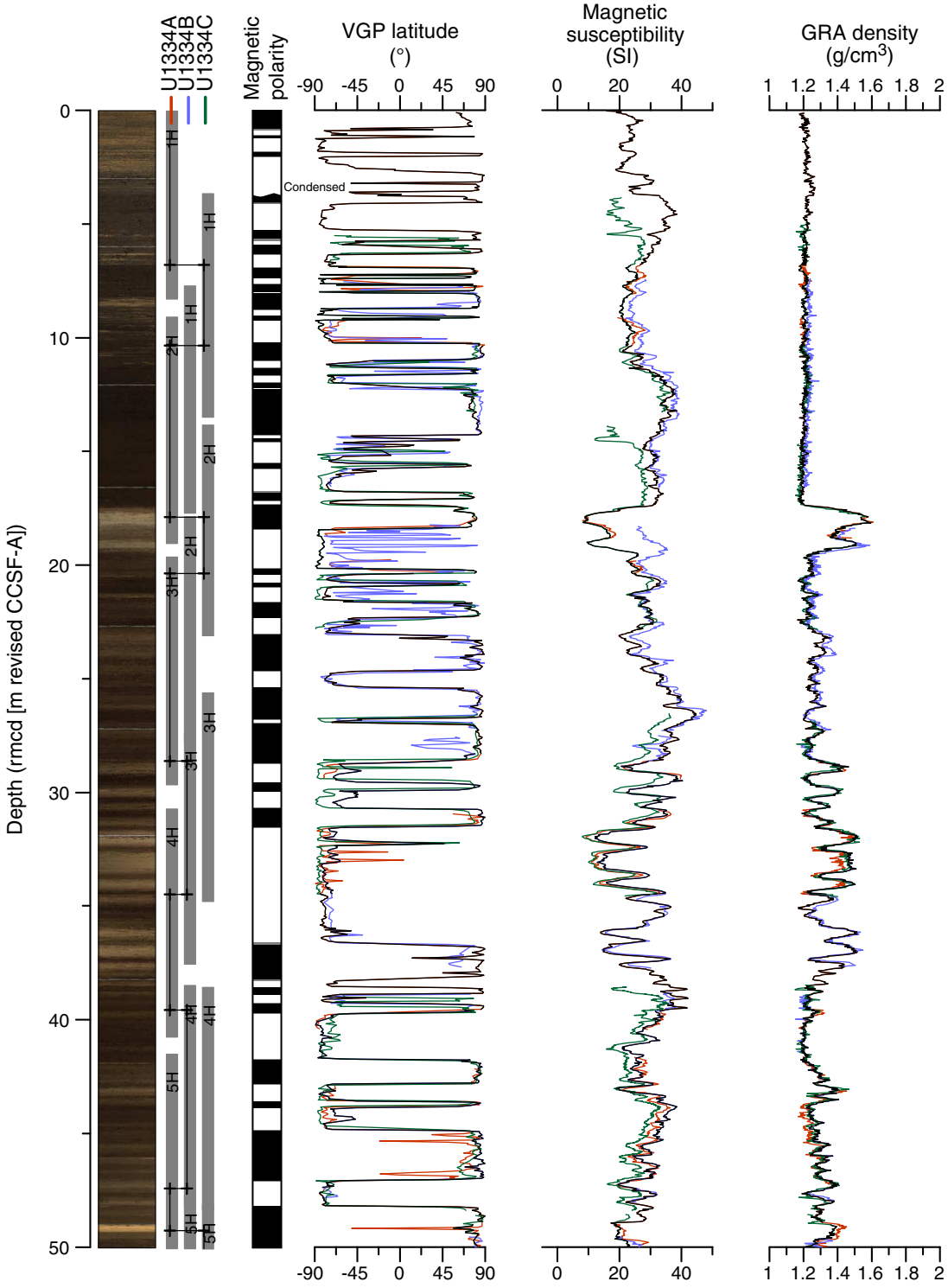


Figure F11 (continued). (Continued on next page.)

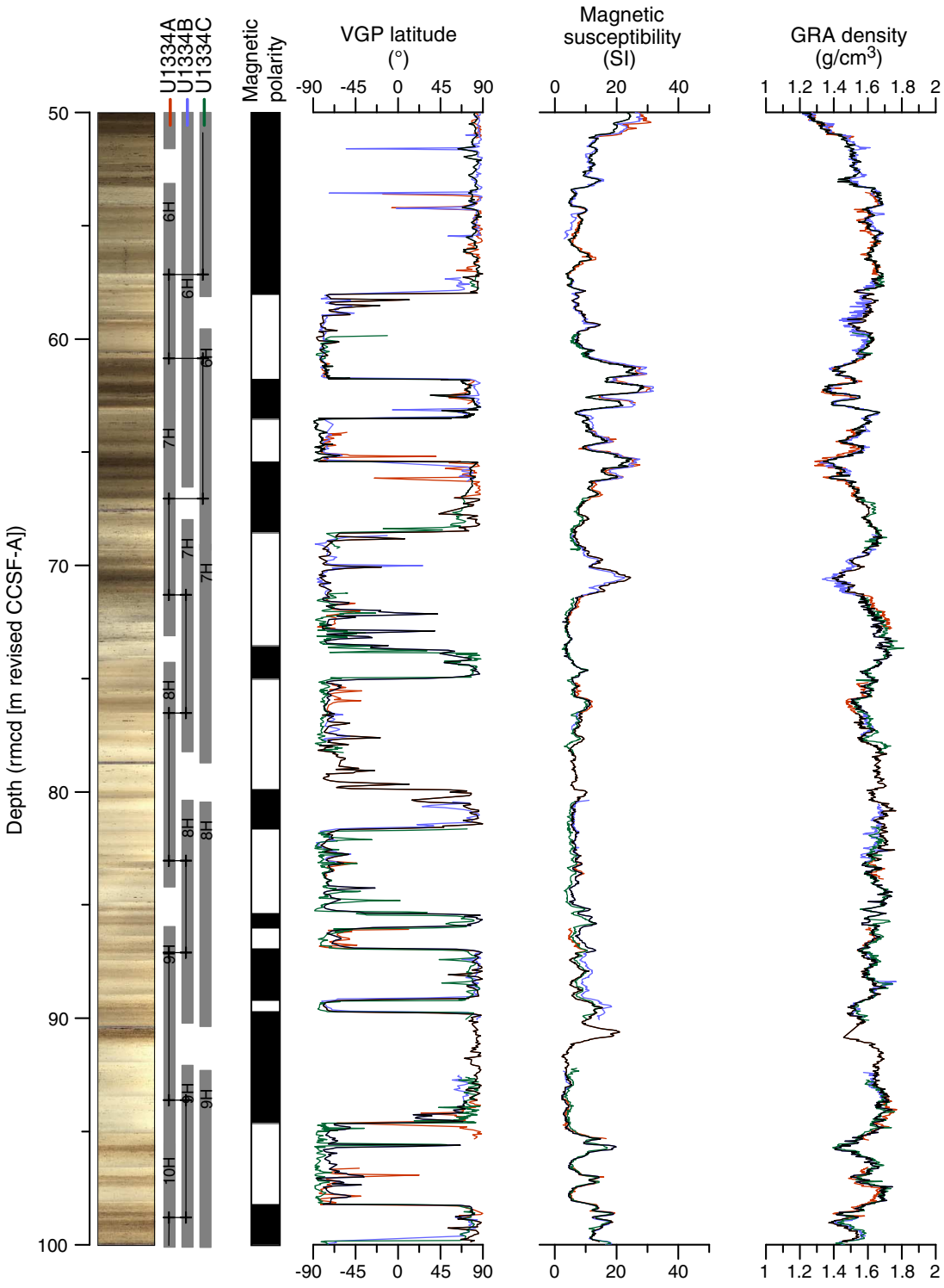


Figure F11 (continued). (Continued on next page.)

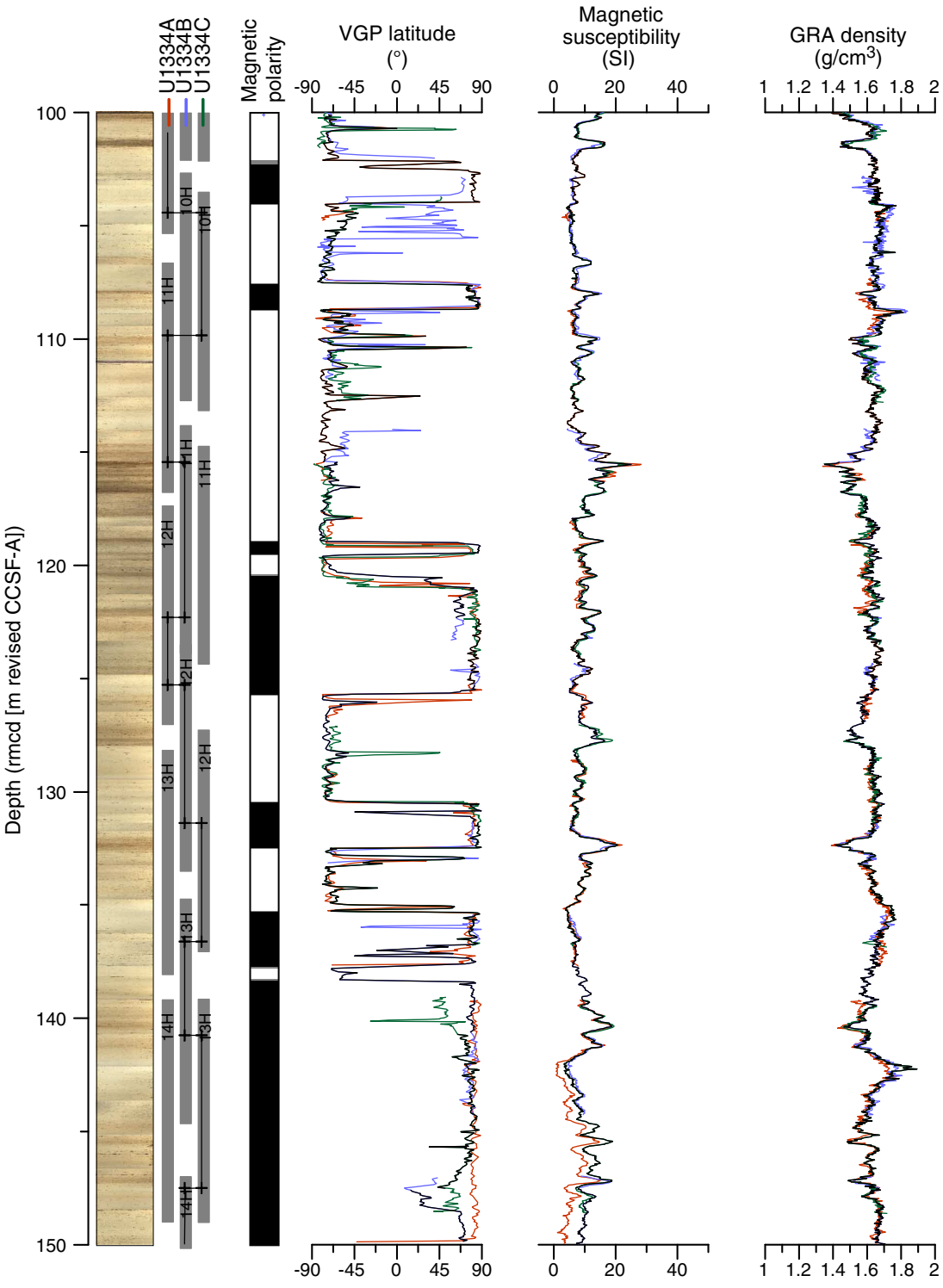


Figure F11 (continued). (Continued on next page.)

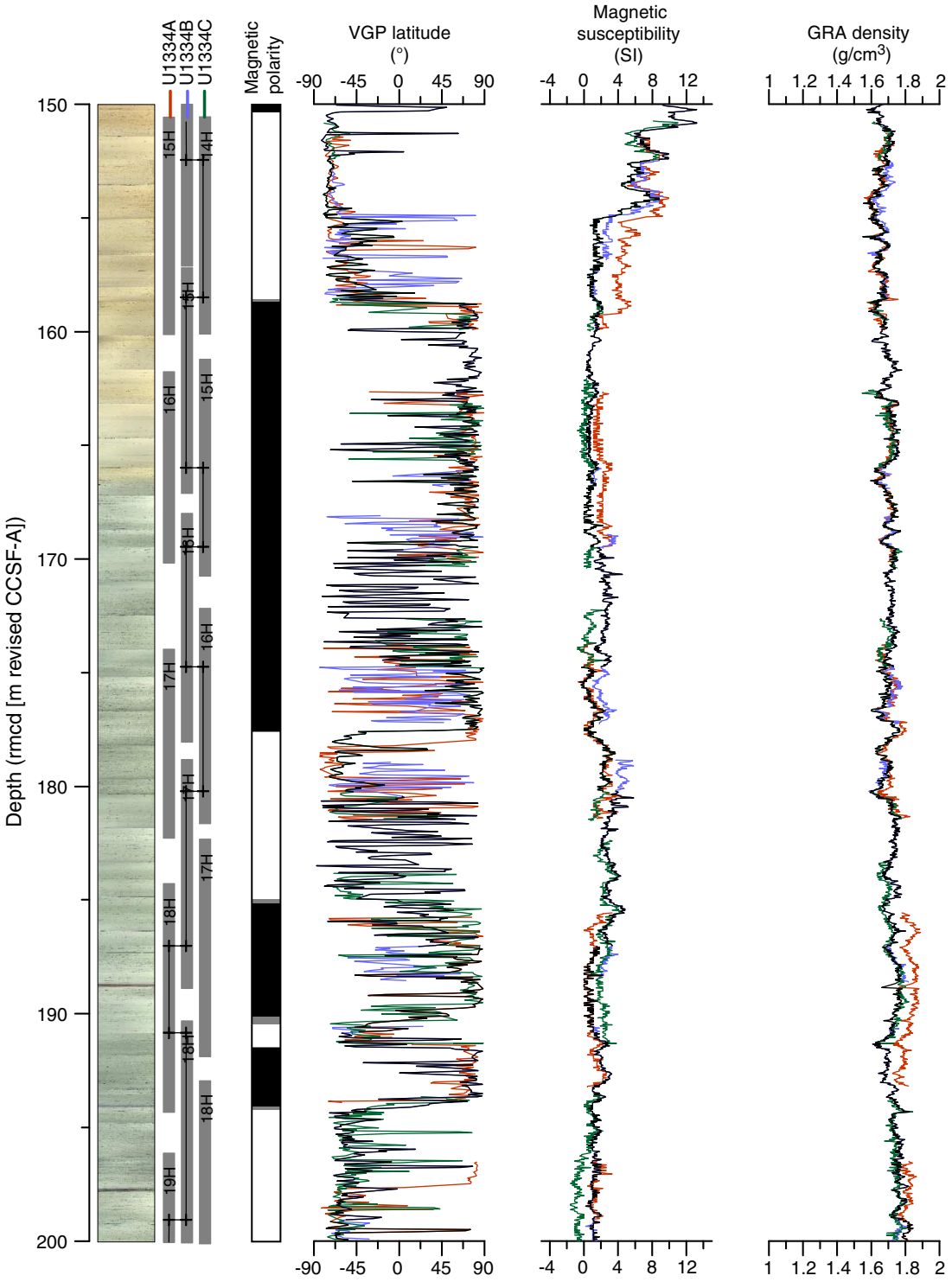


Figure F11 (continued). (Continued on next page.)

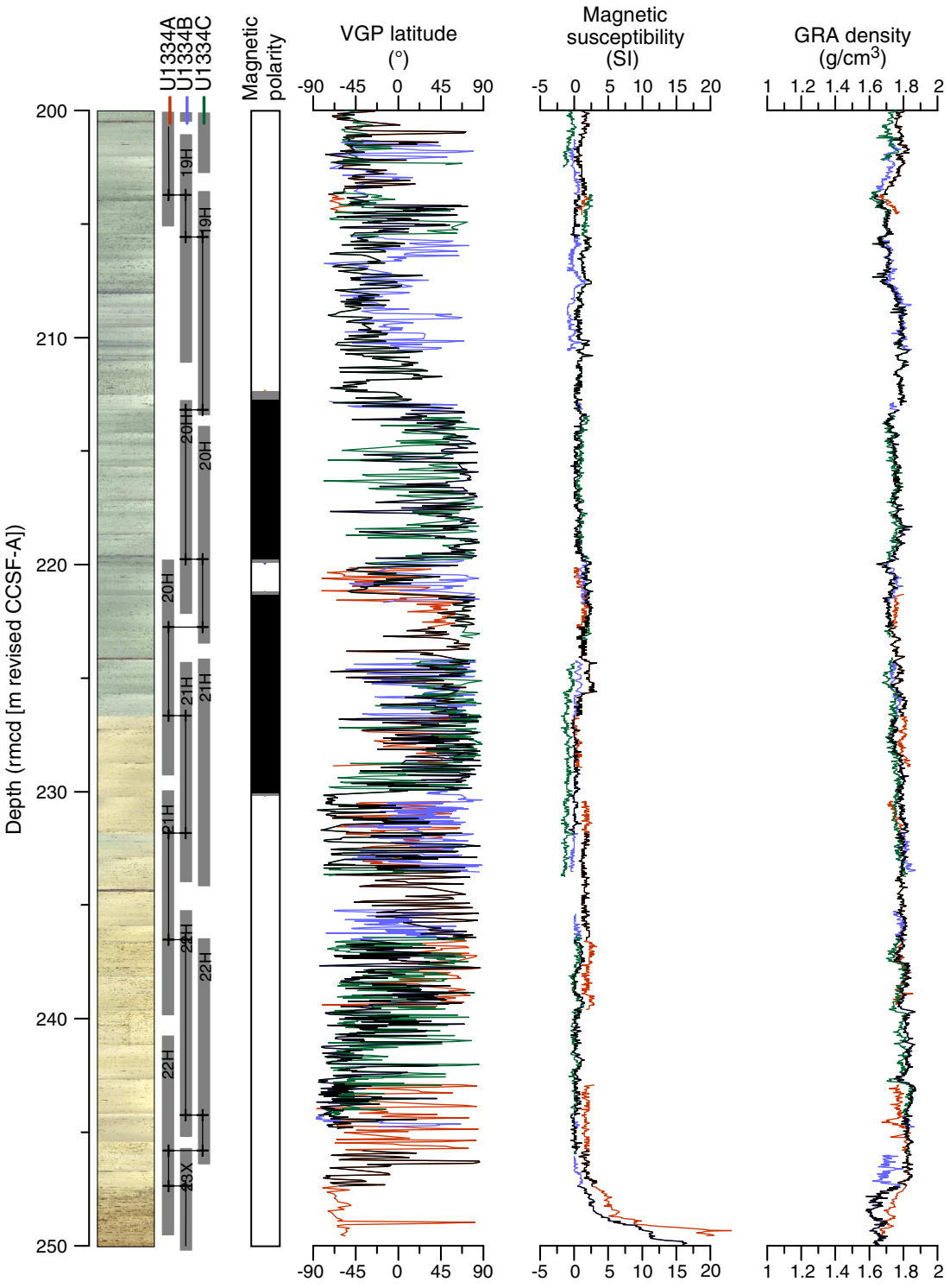


Figure F11 (continued). (Continued on next page.)

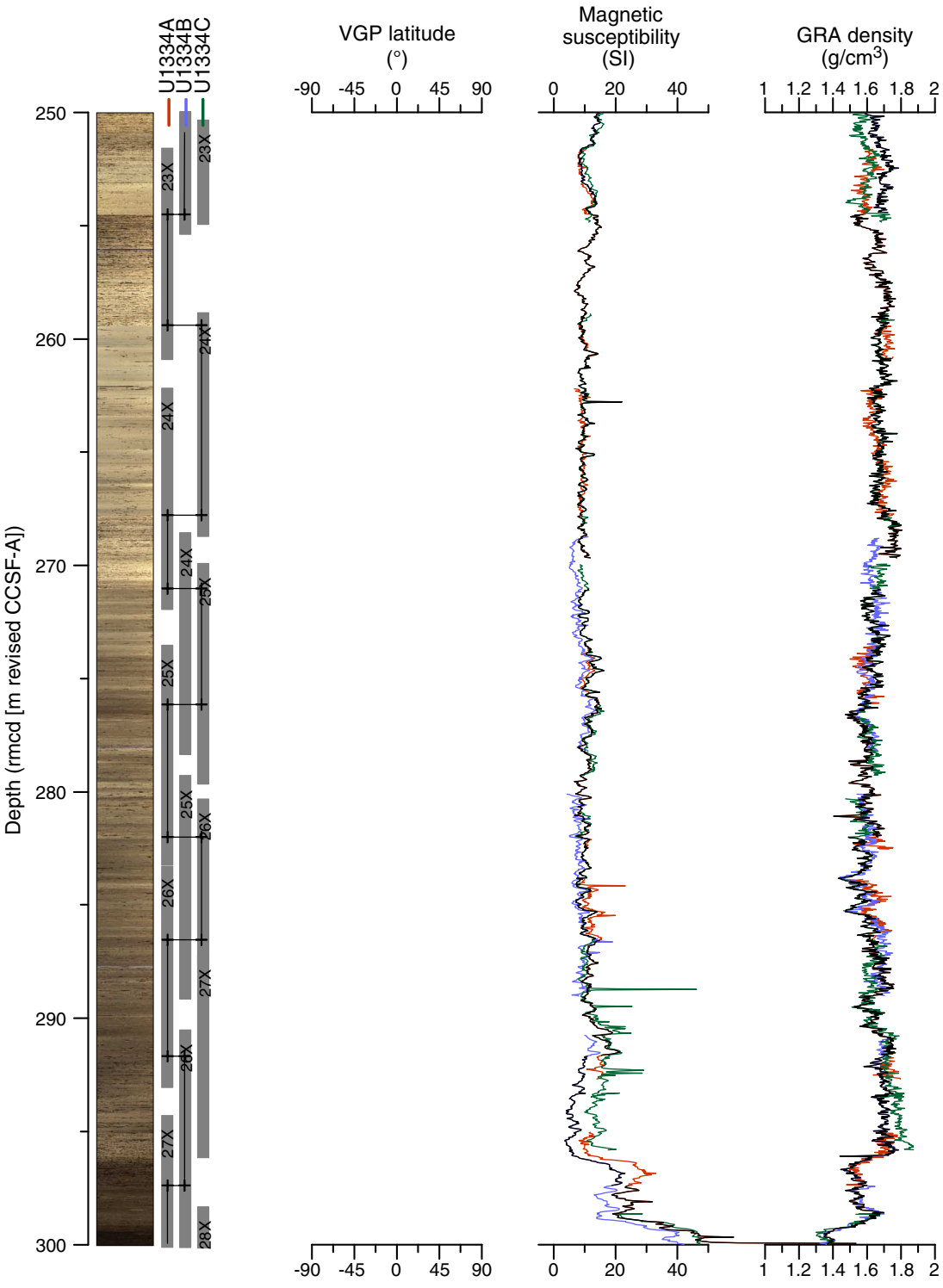


Figure F11 (continued).

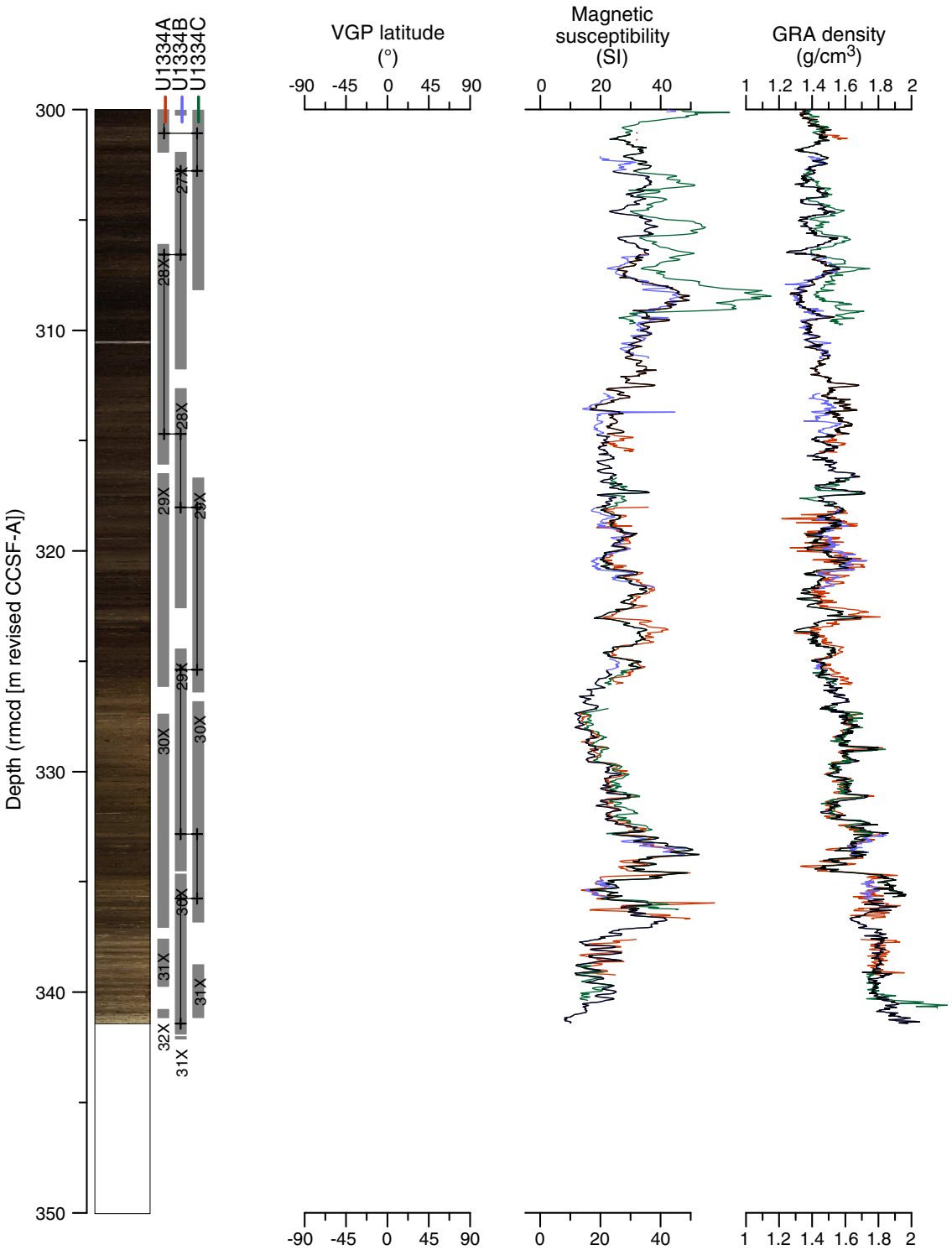


Figure F12. Digital line scan images, Site U1334. Red lines are the tops of splice sections and yellow lines are the bases of those sections (tie to next section). Images were depth registered by R. Wilkens using IGOR-Pro software.

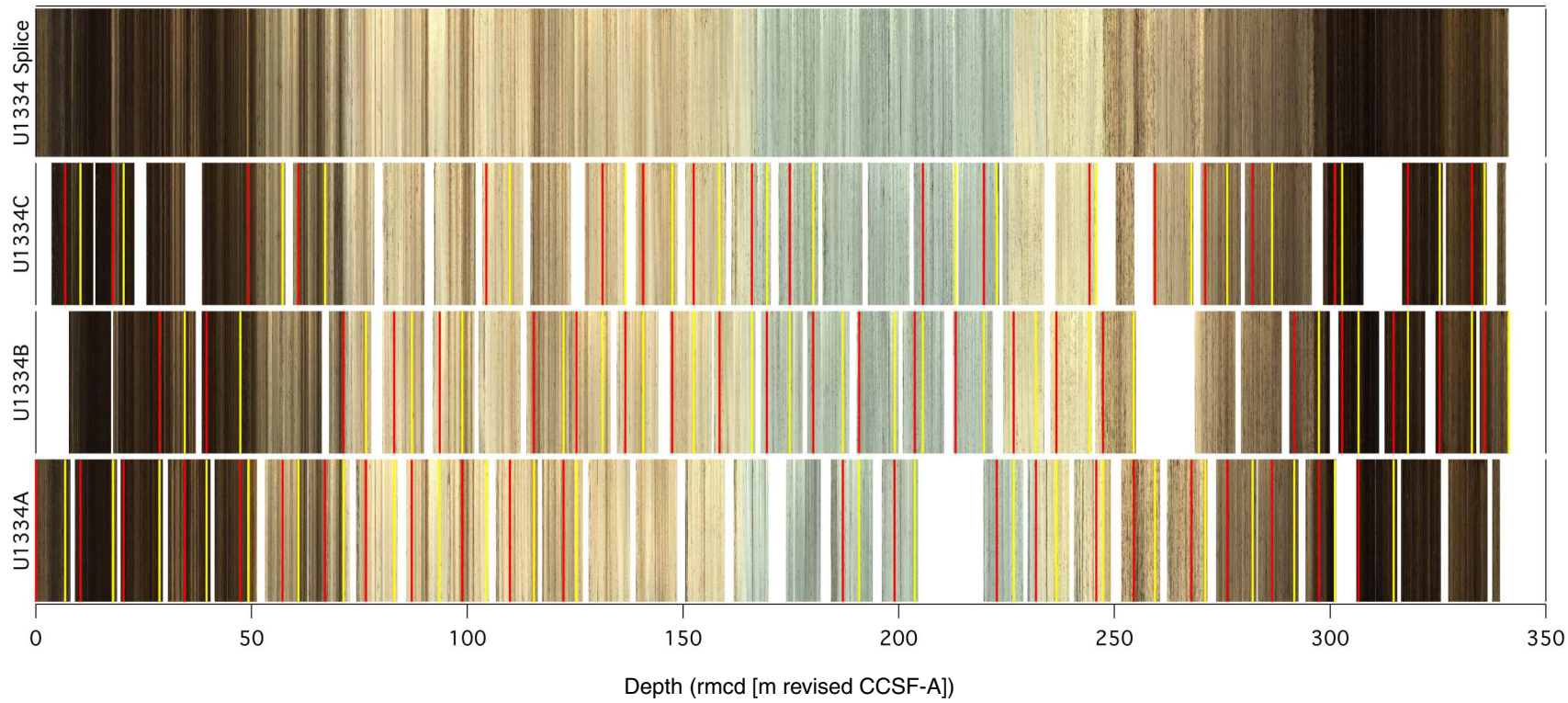


Figure F13. Growth factor calculated by plotting revised composite depth (rmcd [m revised CCSF-A]) against drilled core depth (CSF-A), Site U1334.

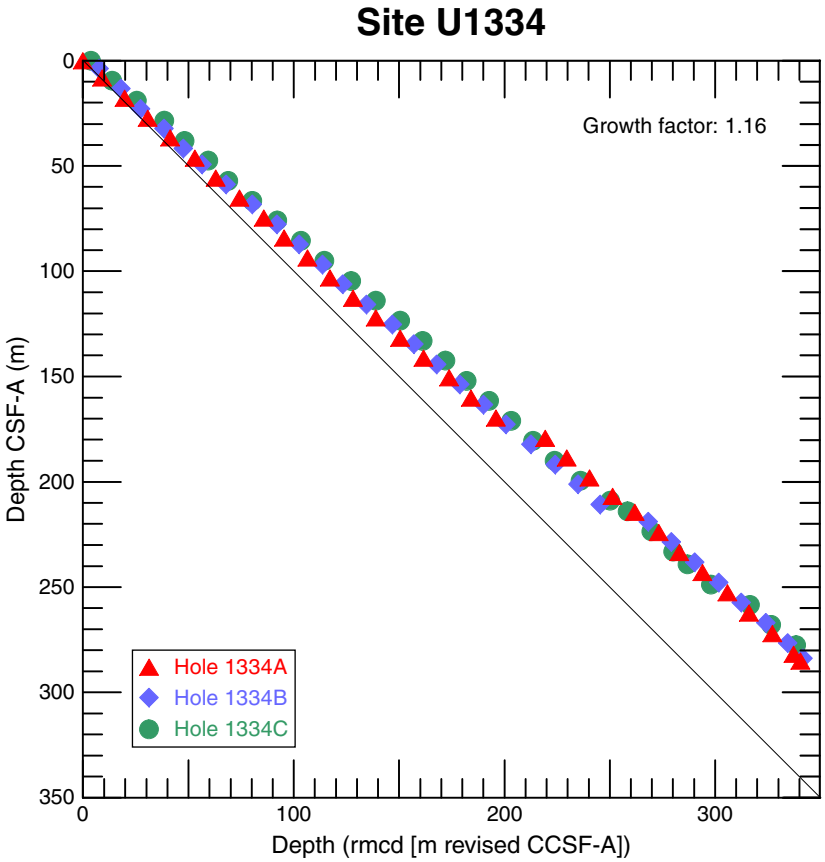


Figure F14. Site 1218 paleomagnetic and physical property data on corrected rmcd scale. Splice map and spliced core image on the left side. VGP = virtual geomagnetic pole, GRA = gamma ray attenuation. Red = Hole 1218A, blue = Hole 1218B, green = Hole 1218C, black = composite record. Composite record line is discontinuous because of distortion and data gaps. (Continued on next five pages.)

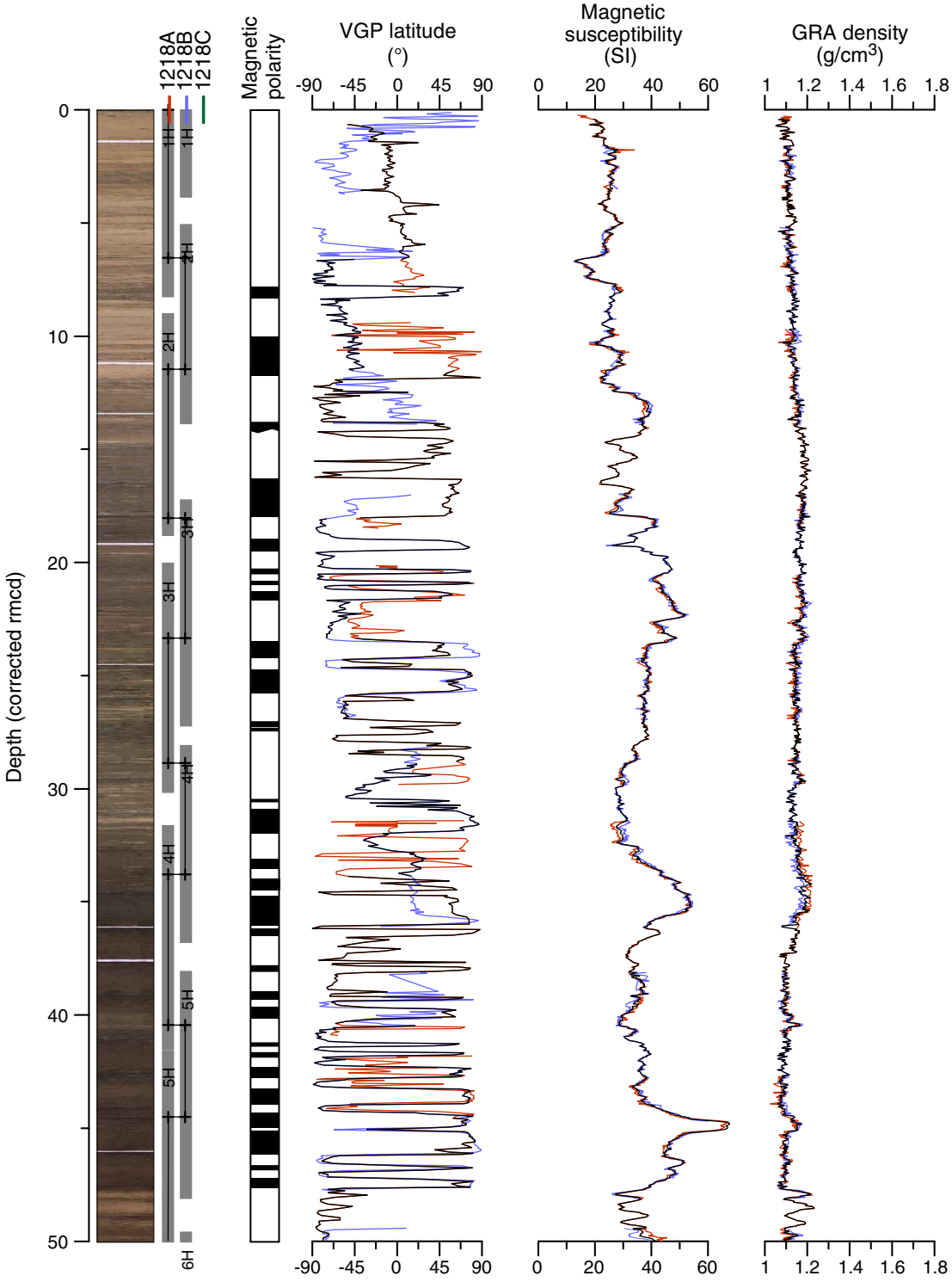


Figure F14 (continued). (Continued on next page.)

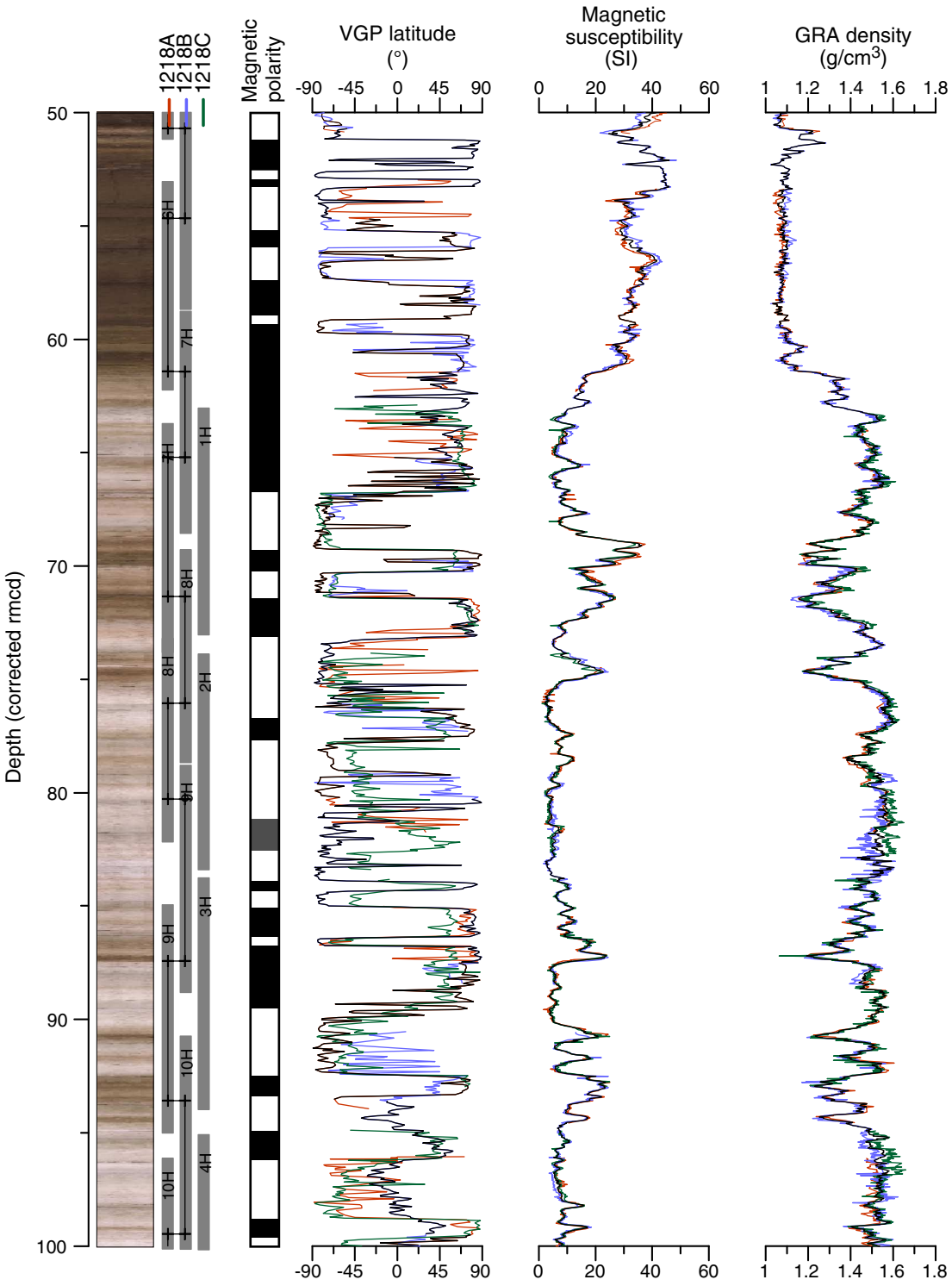


Figure F14 (continued). (Continued on next page.)

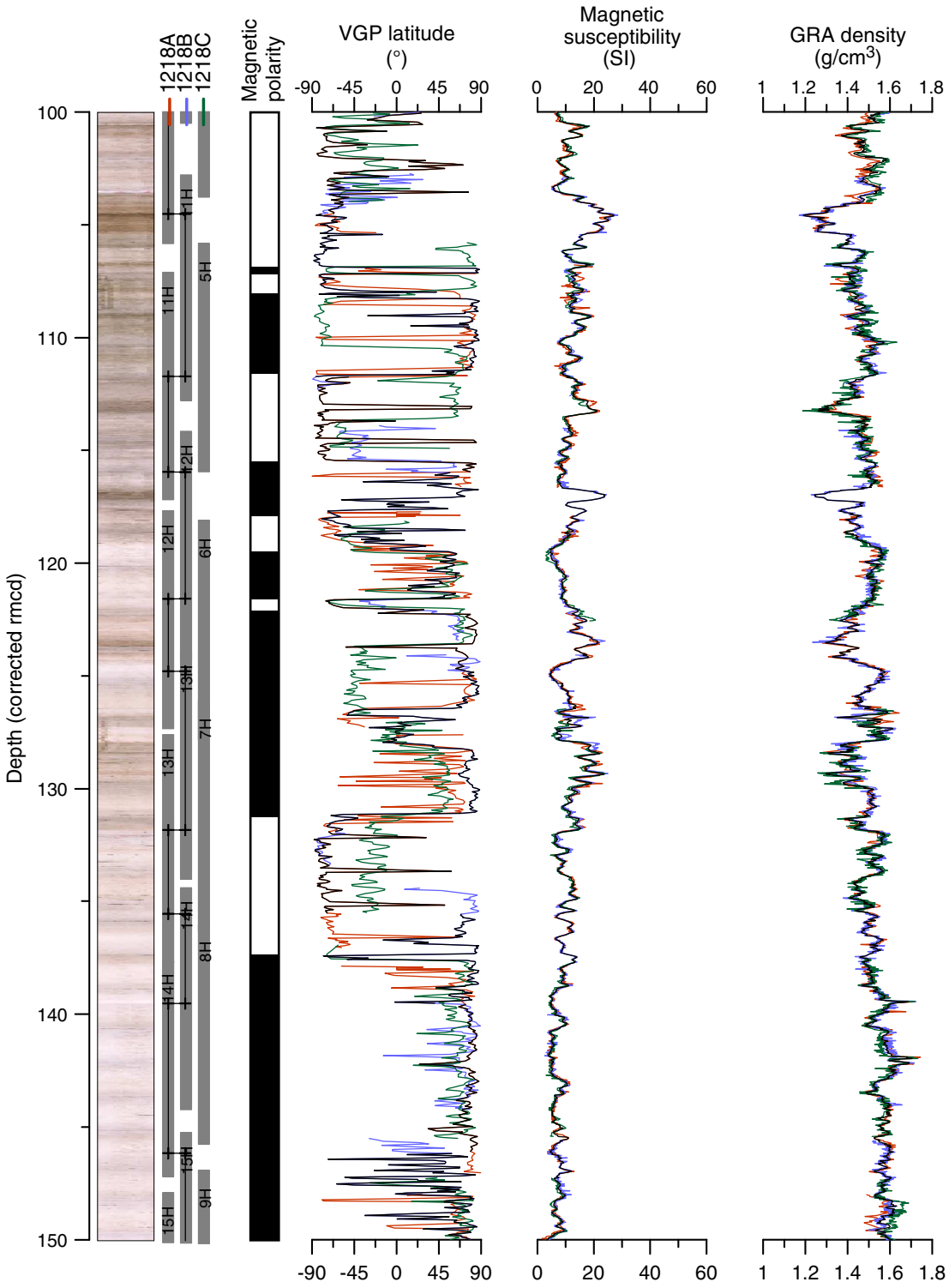


Figure F14 (continued). (Continued on next page.)

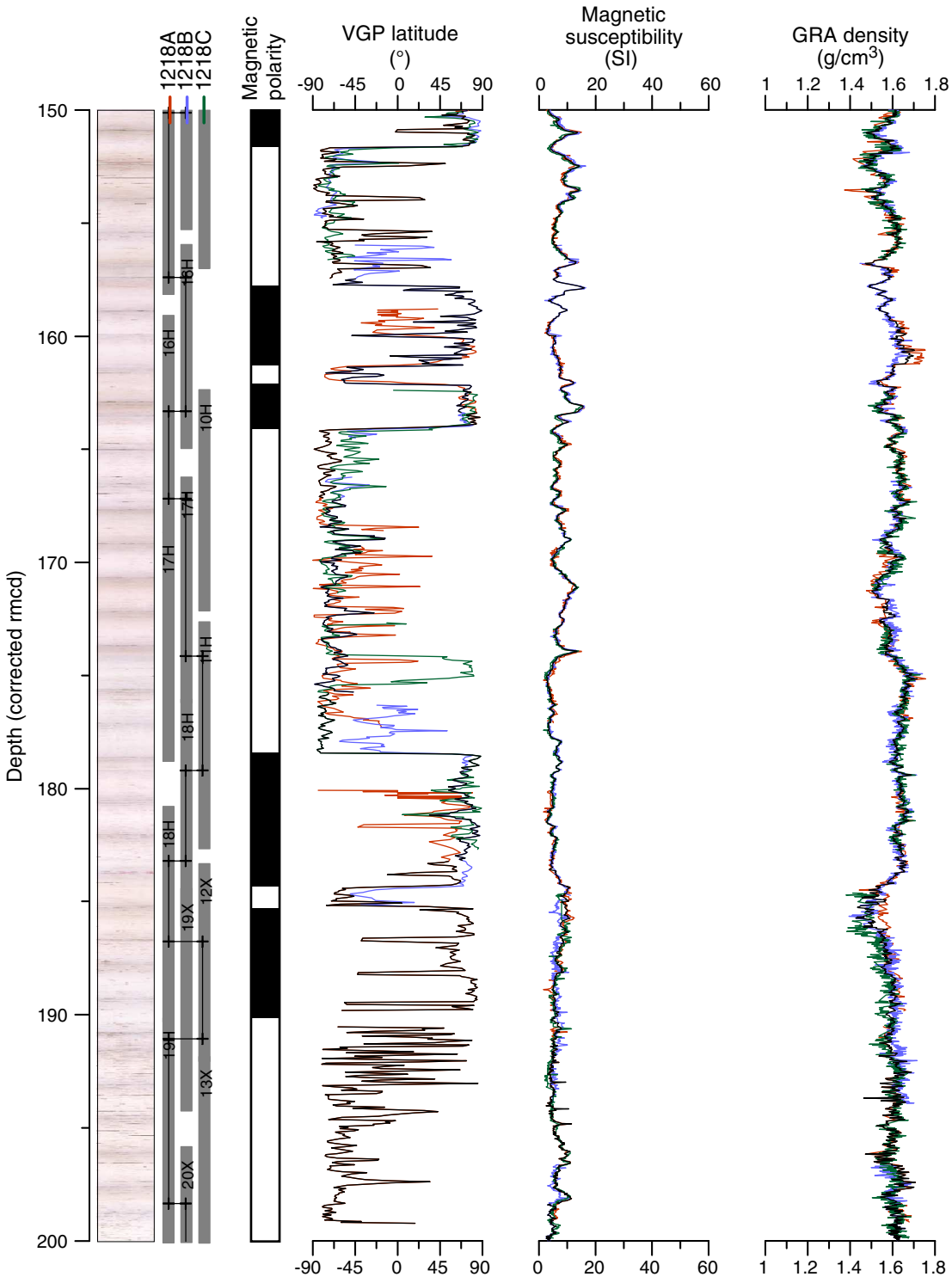


Figure F14 (continued). (Continued on next page.)

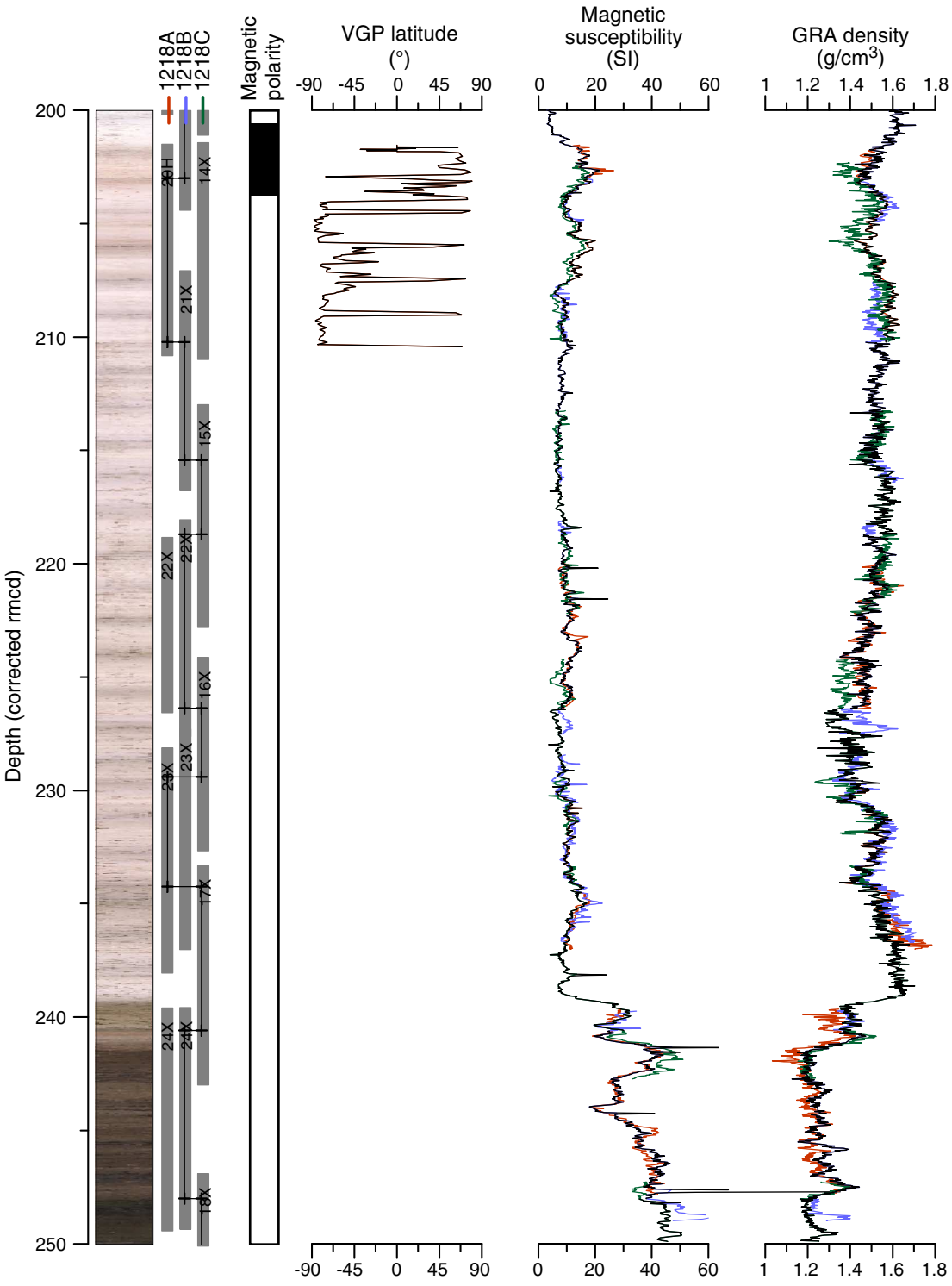


Figure F14 (continued).

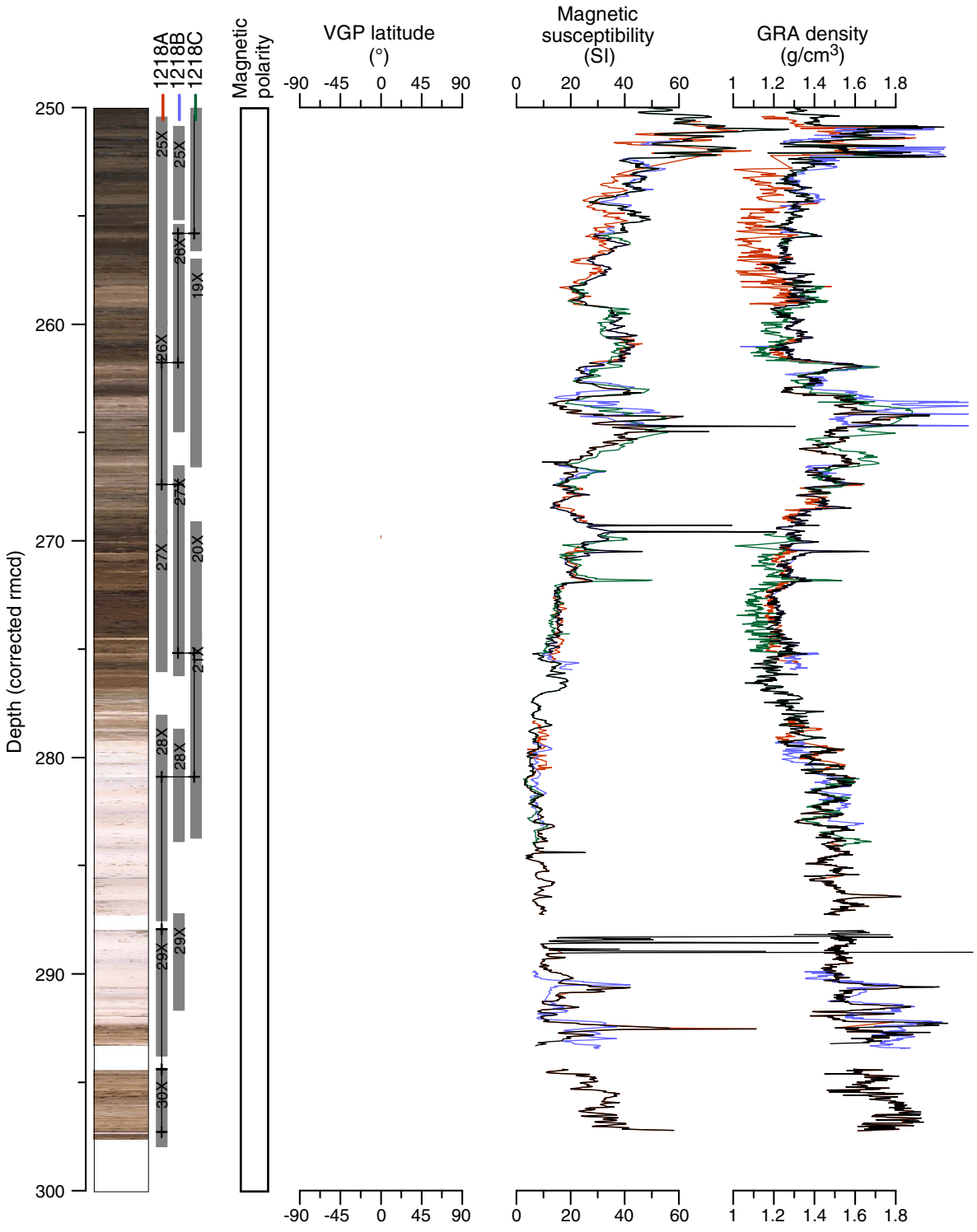


Figure F15. Digital line scan images, Site 1218. Red lines are the tops of splice sections and yellow lines are the bases of those sections (tie to next section). Images were depth registered by R. Wilkens using IGOR-Pro software.

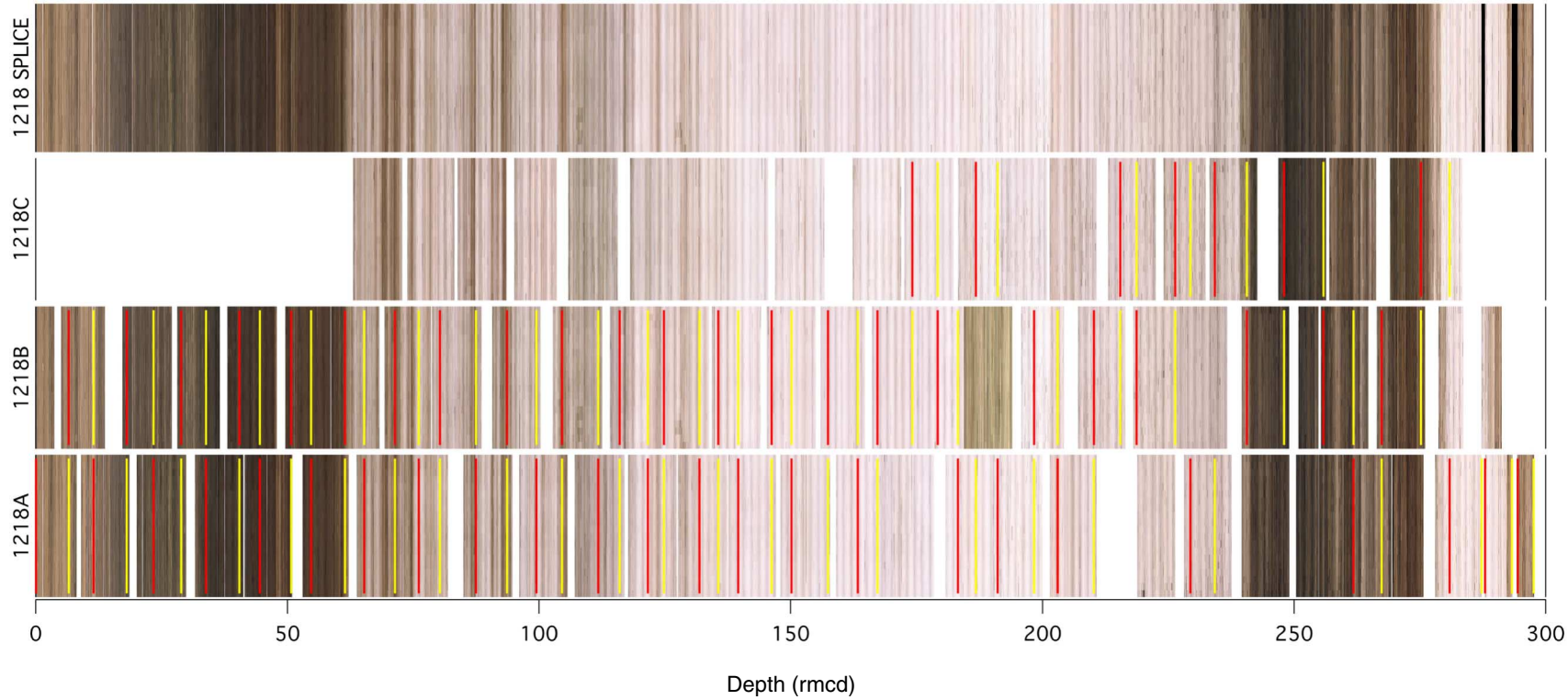


Figure F16. Growth factor calculated by plotting revised composite depth (rmcd) against drilled core depth (mbsf), Site 1218.

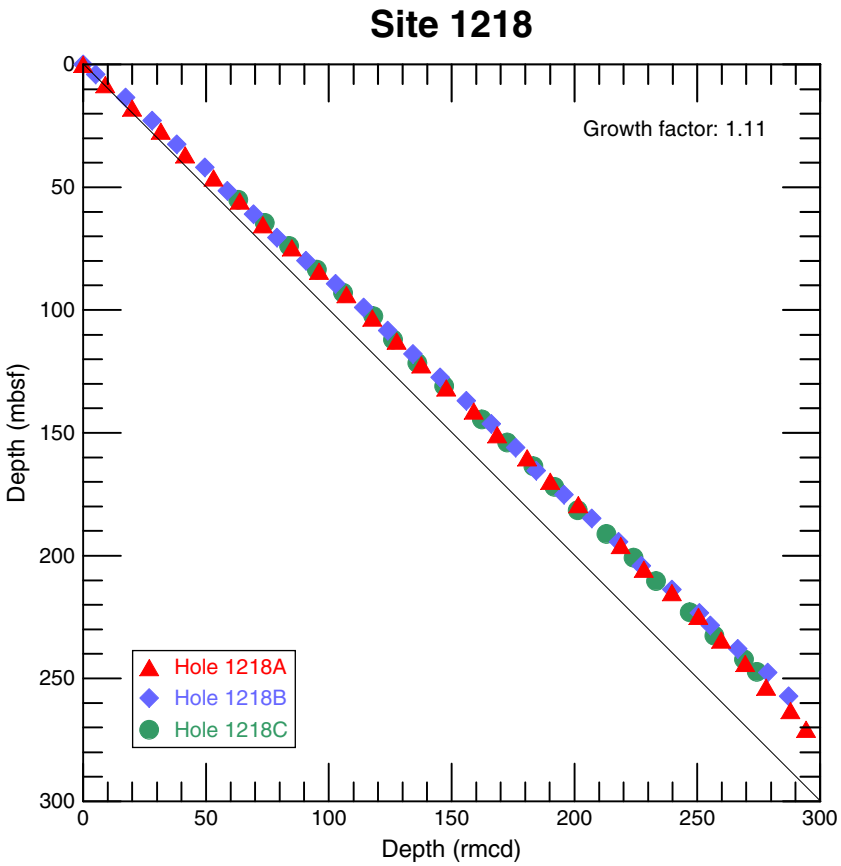


Figure F17. Site 1219 paleomagnetic and physical property data on rmcd scale. Splice map and spliced core image on the left side. VGP = virtual geomagnetic pole, GRA = gamma ray attenuation. Red = Hole 1219A, blue = Hole 1219B, black = composite record. Composite record line is discontinuous because of distortion and data gaps. (Continued on next four pages.)

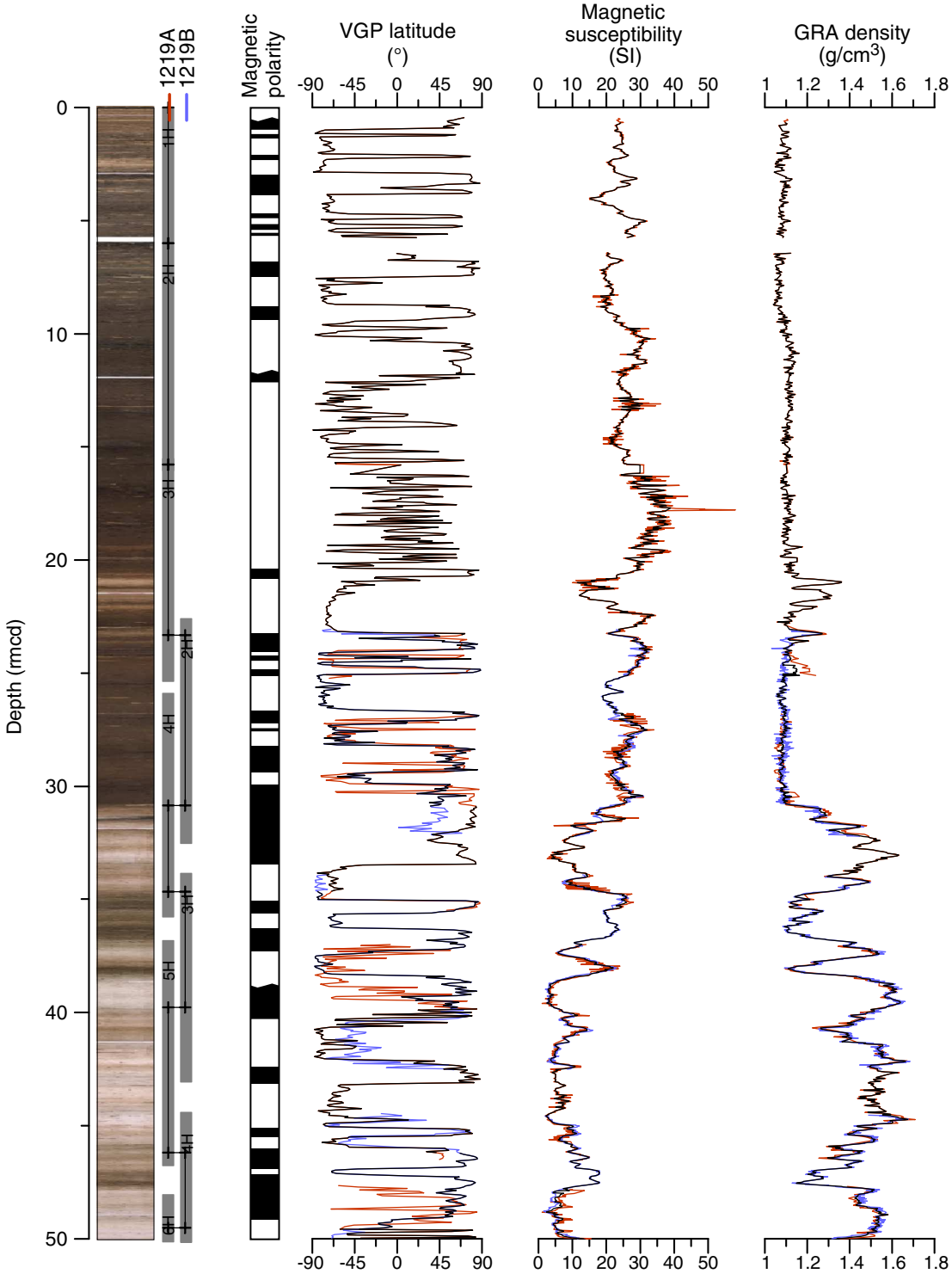


Figure F17 (continued). (Continued on next page.)

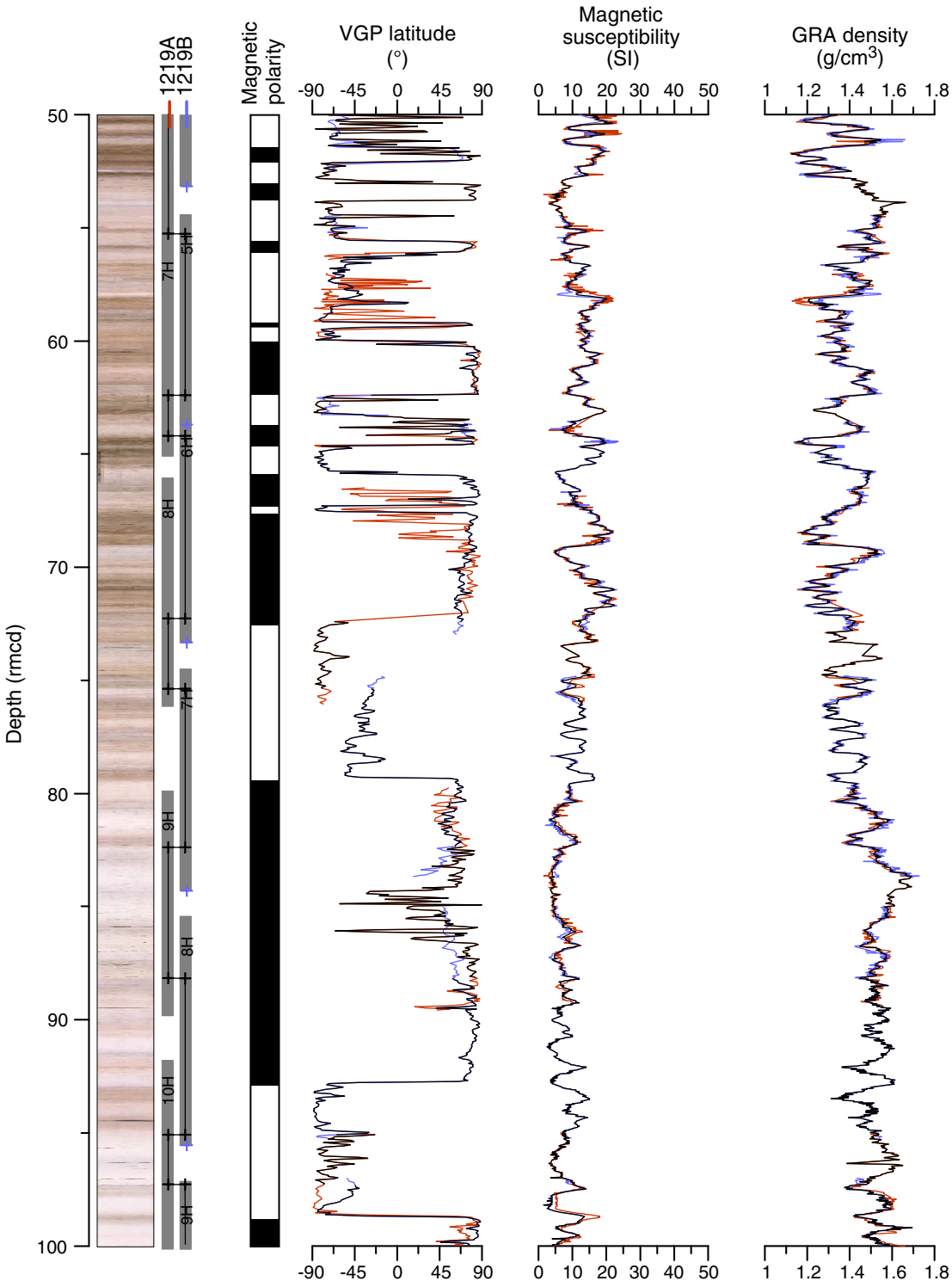


Figure F17 (continued). (Continued on next page.)

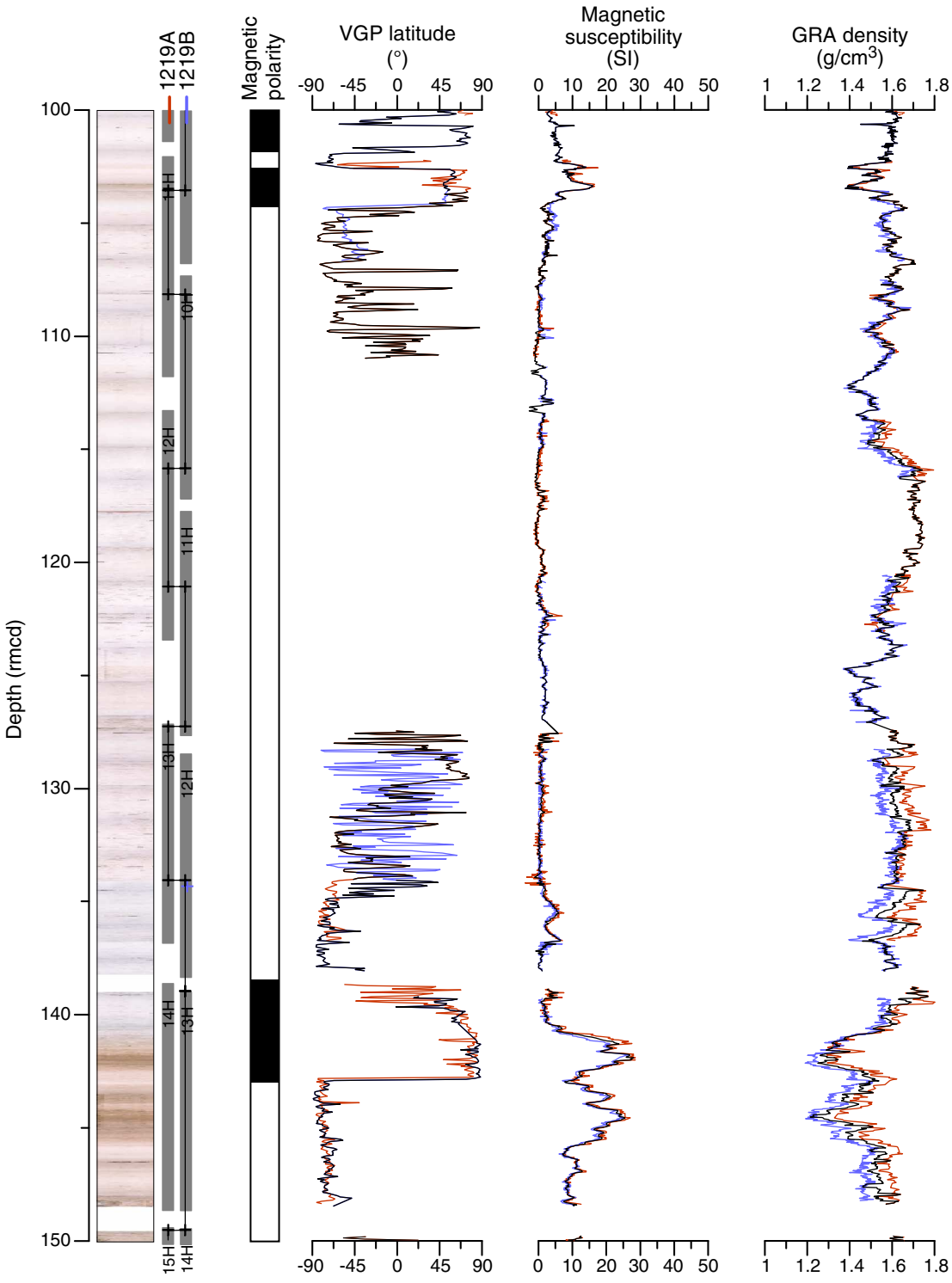


Figure F17 (continued). (Continued on next page.)

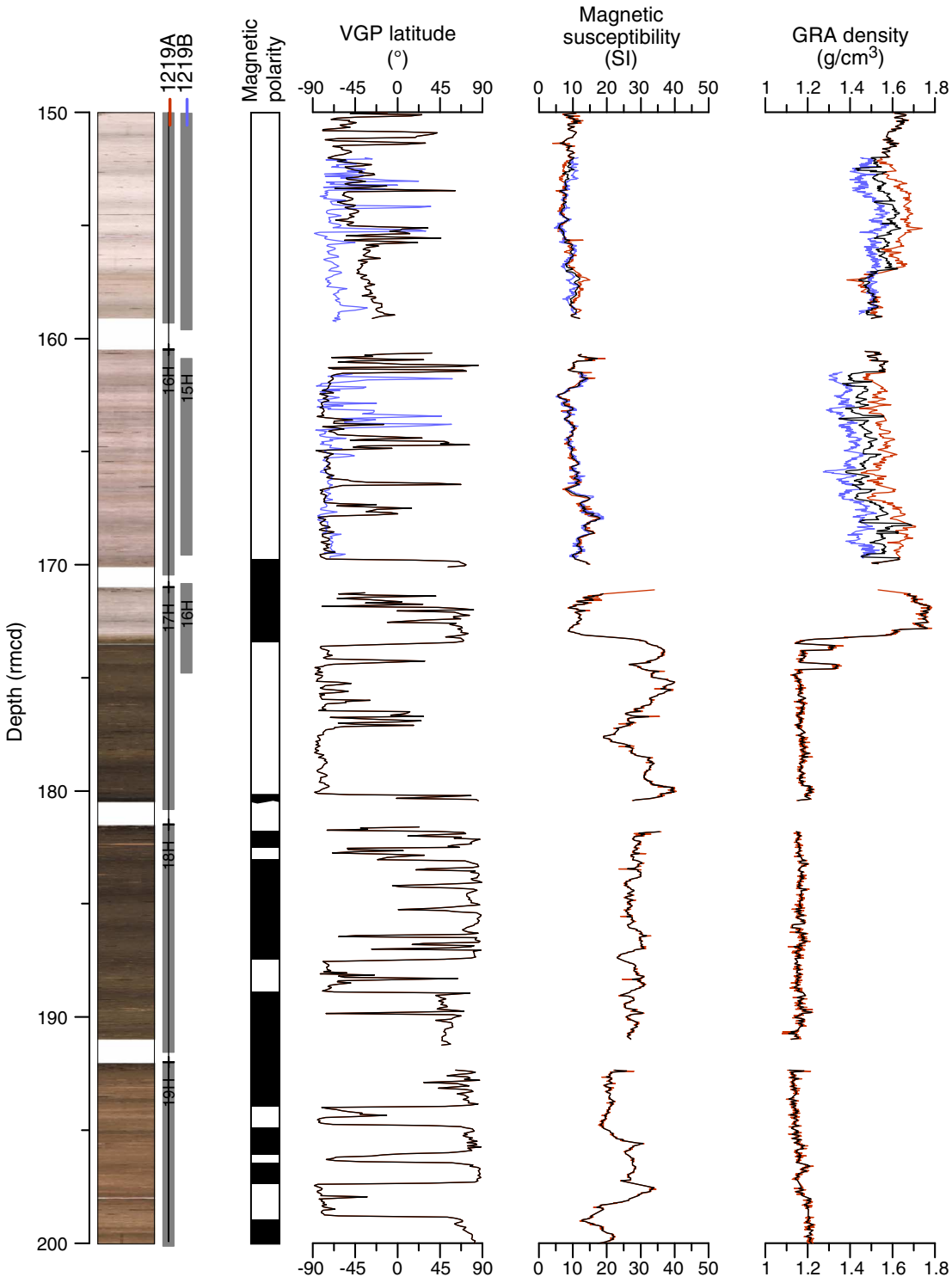


Figure F17 (continued).

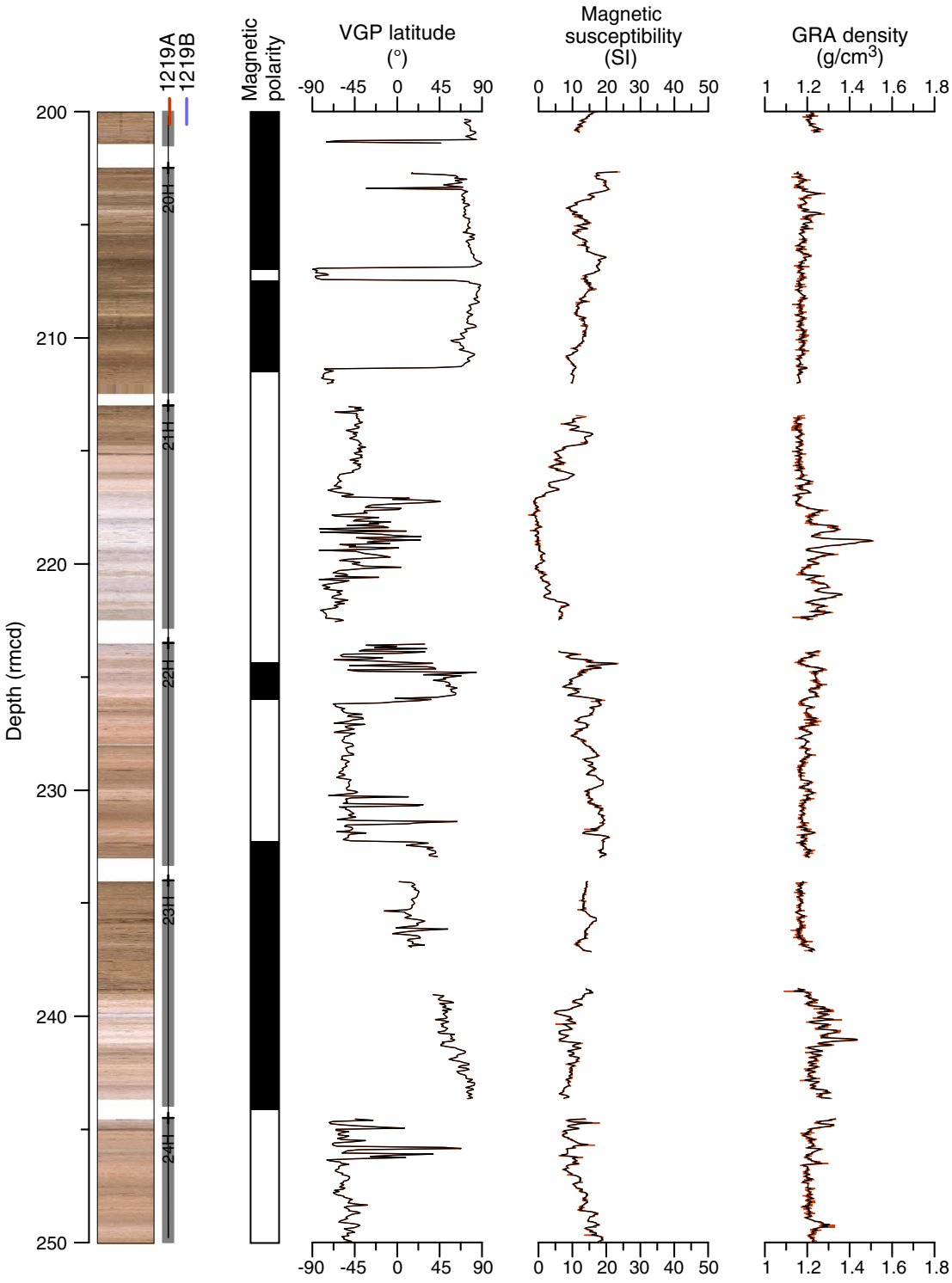


Figure F18. Digital line scan images, Site 1219. Red lines are the tops of splice sections and yellow lines are the bases of those sections (tie to next section). Images were depth registered by R. Wilkens using IGOR-Pro software.

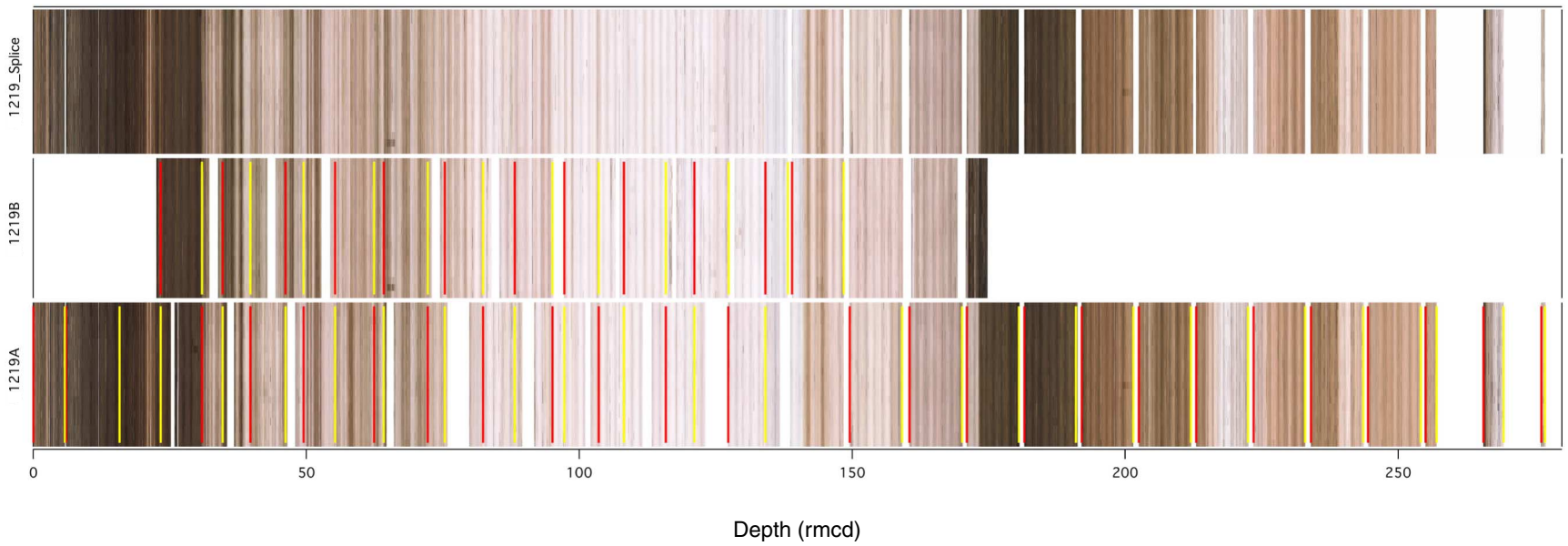


Figure F19. Site 1220 paleomagnetic and physical property data on rmcd scale. Splice map and spliced core image on the left side. VGP = virtual geomagnetic pole, GRA = gamma ray attenuation. Red = Hole 1220A, blue = Hole 1220B, green = Hole 1220C, black = composite record. Composite record line is discontinuous because of distortion and data gaps. (Continued on next three pages.)

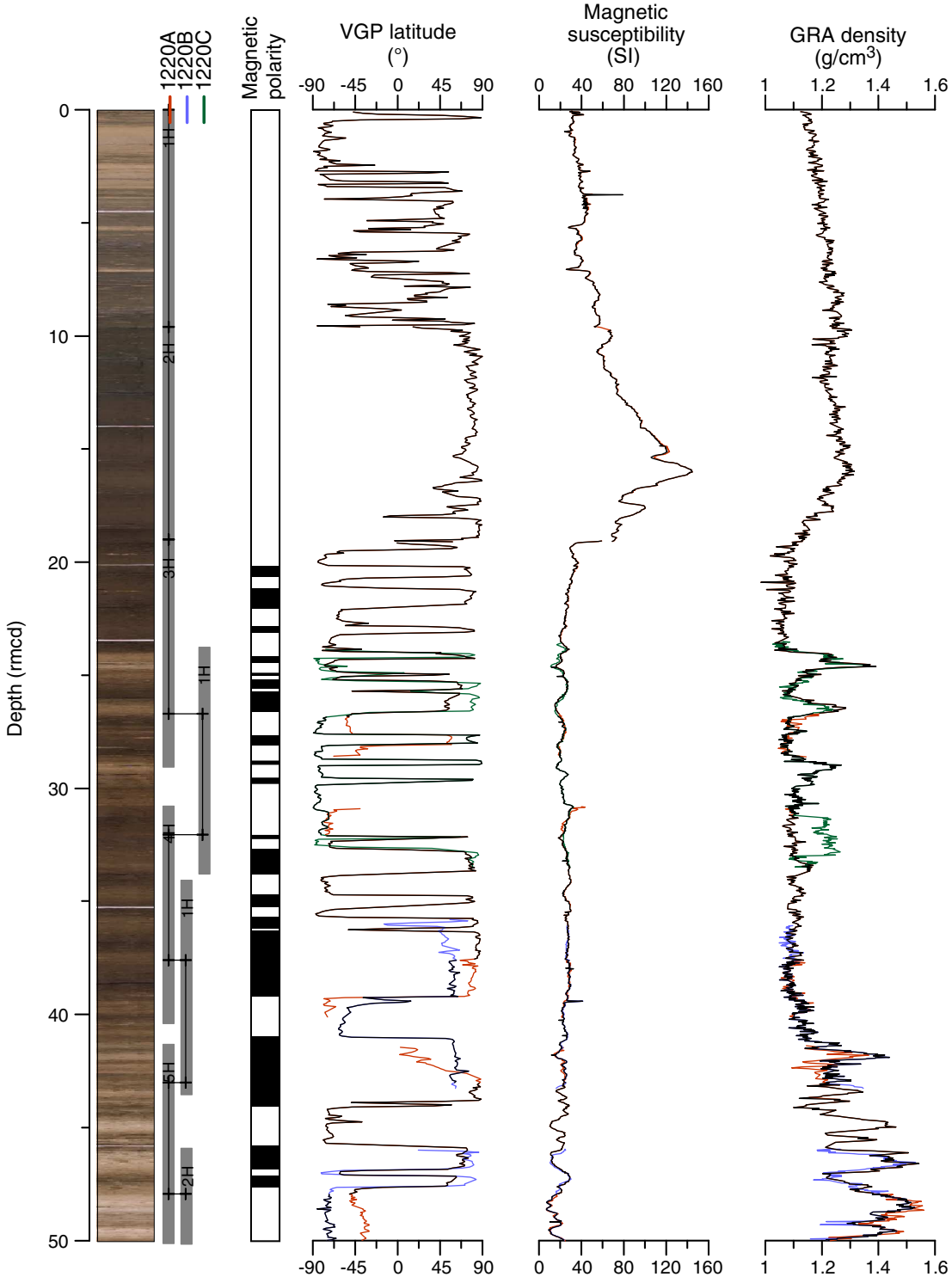


Figure F19 (continued). (Continued on next page.)

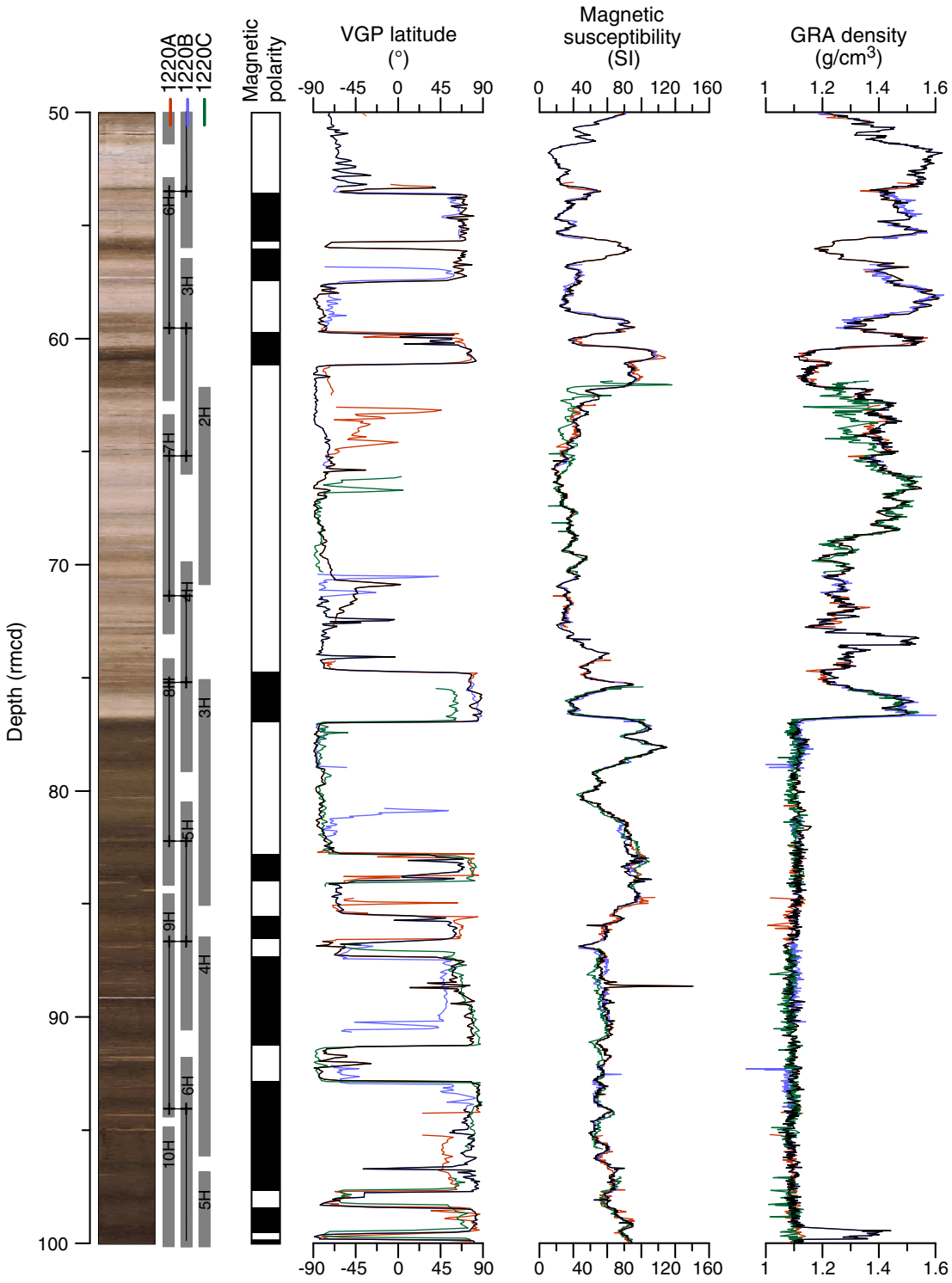


Figure F19 (continued). (Continued on next page.)

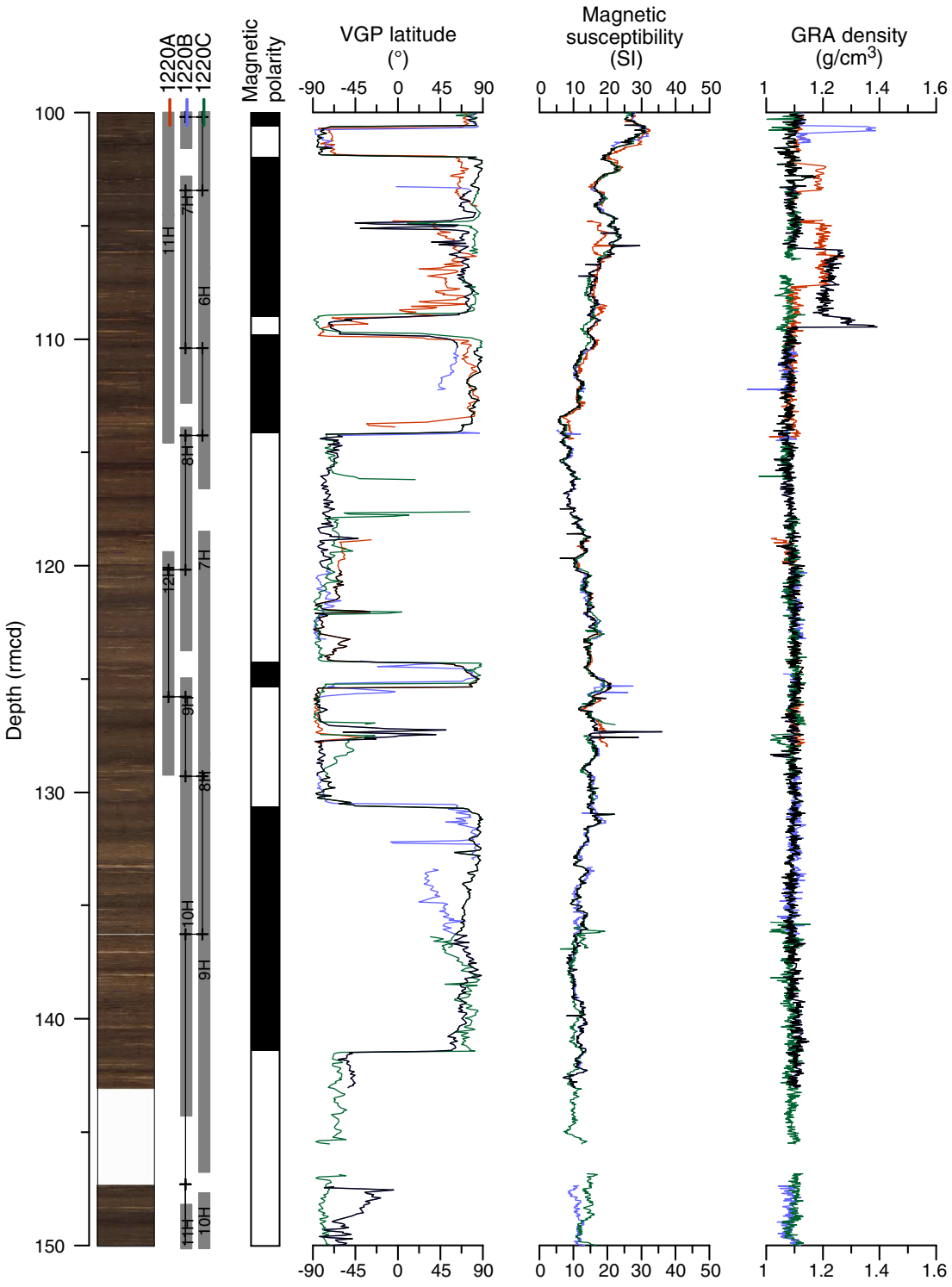


Figure F19 (continued).

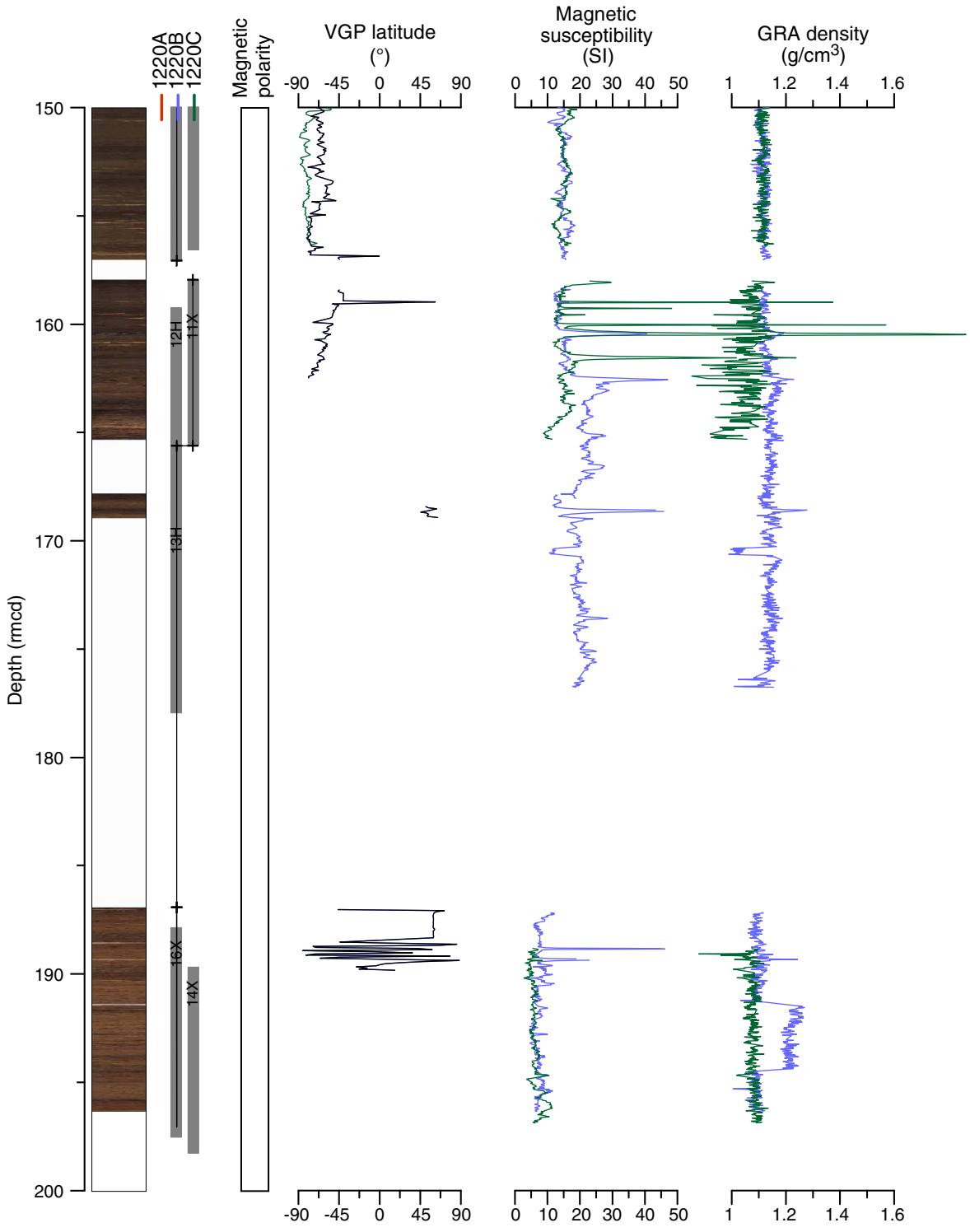


Figure F20. Digital line scan images, Site 1220. Red lines are the tops of splice sections and yellow lines are the bases of those sections (tie to next section). Images were depth registered by R. Wilkens using IGOR-Pro software.

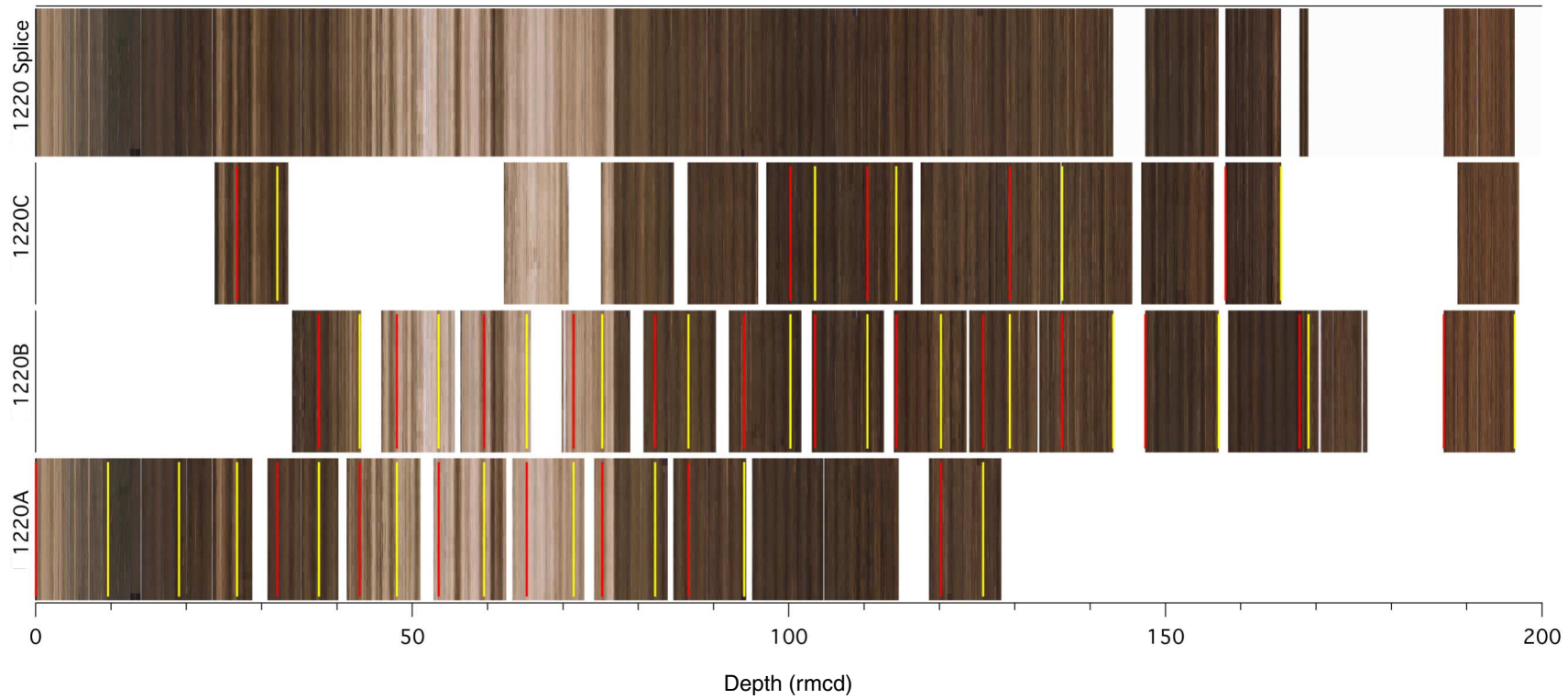


Figure F21. Growth factor calculated by plotting revised composite depth (rmcd) against drilled core depth (mbsf), Site 1220.

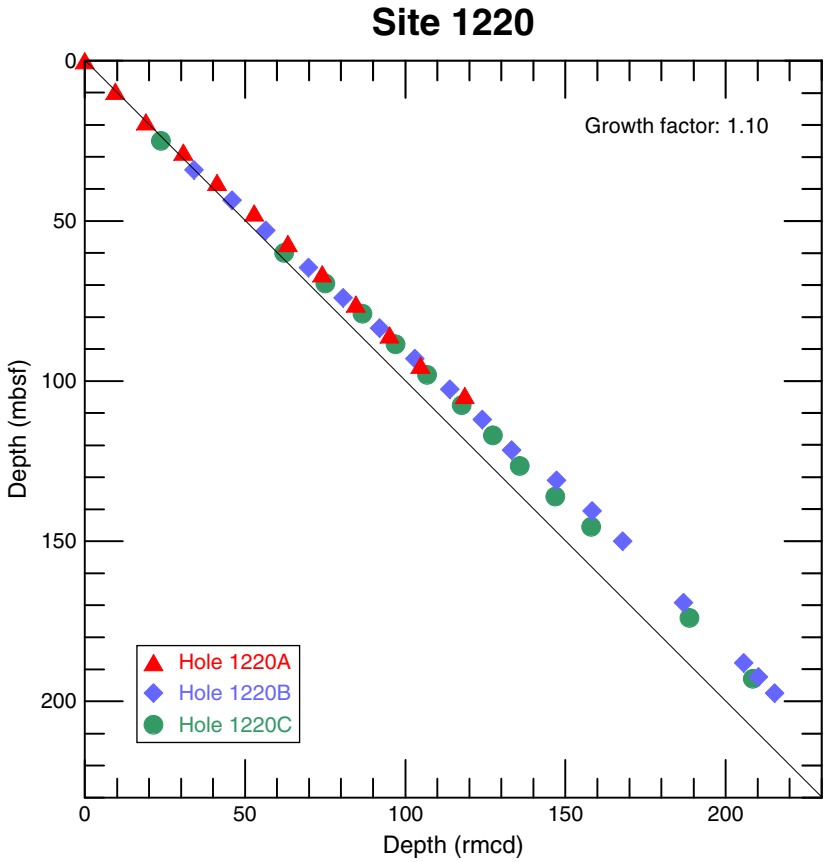


Figure F22. Site-to-site correlation of paleomagnetic and physical property data from Sites 1218, 1219, U1333, and U1334 on corrected rmcd scale of Site 1218. VGP = virtual geomagnetic pole, GRA = gamma ray attenuation. Black = Site 1218, green = Site 1219, blue = Site U1333, red = Site U1334. Composite record lines are discontinuous because of distortion and data gaps. (Continued on next five pages.)

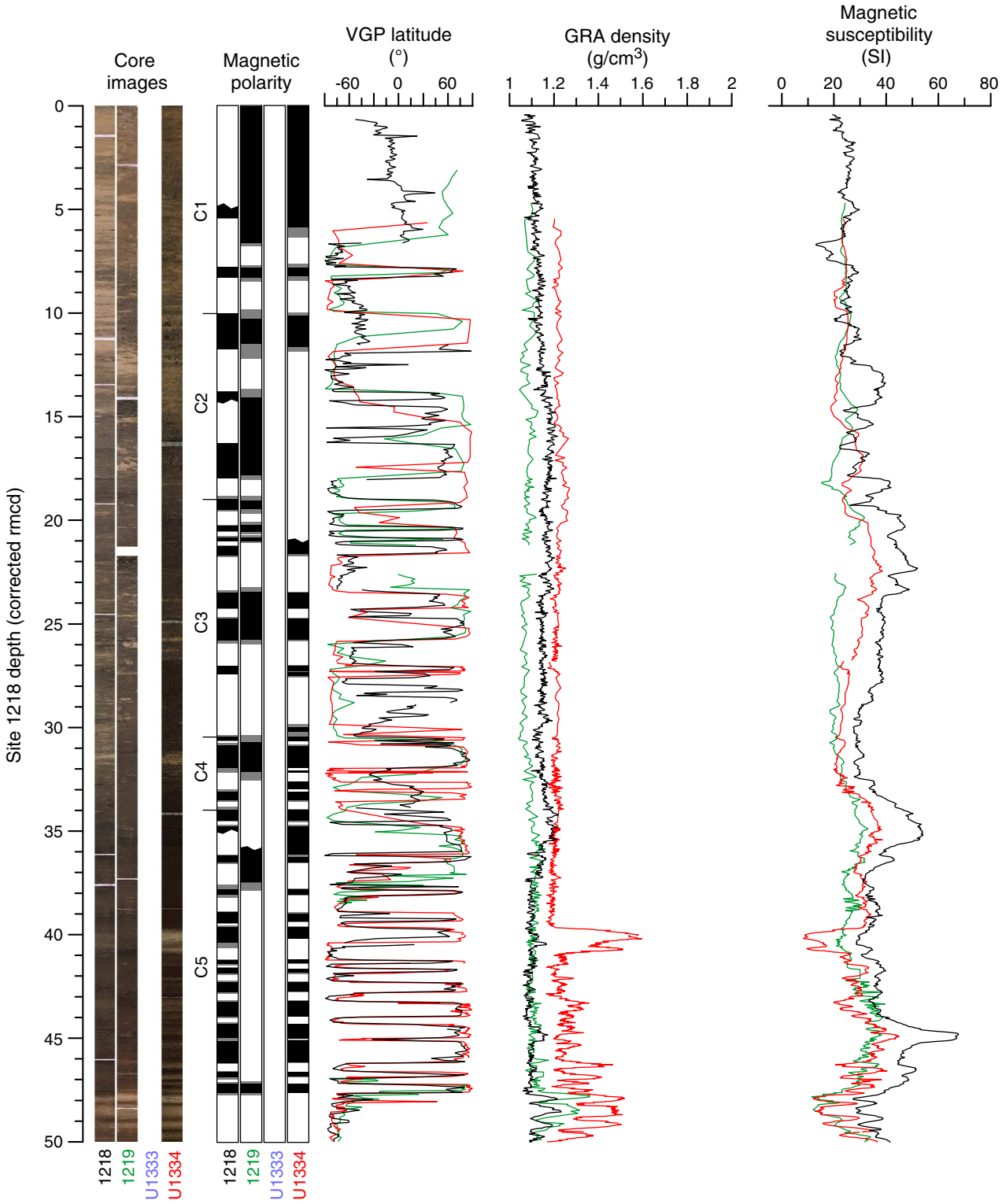


Figure F22 (continued). (Continued on next page.)

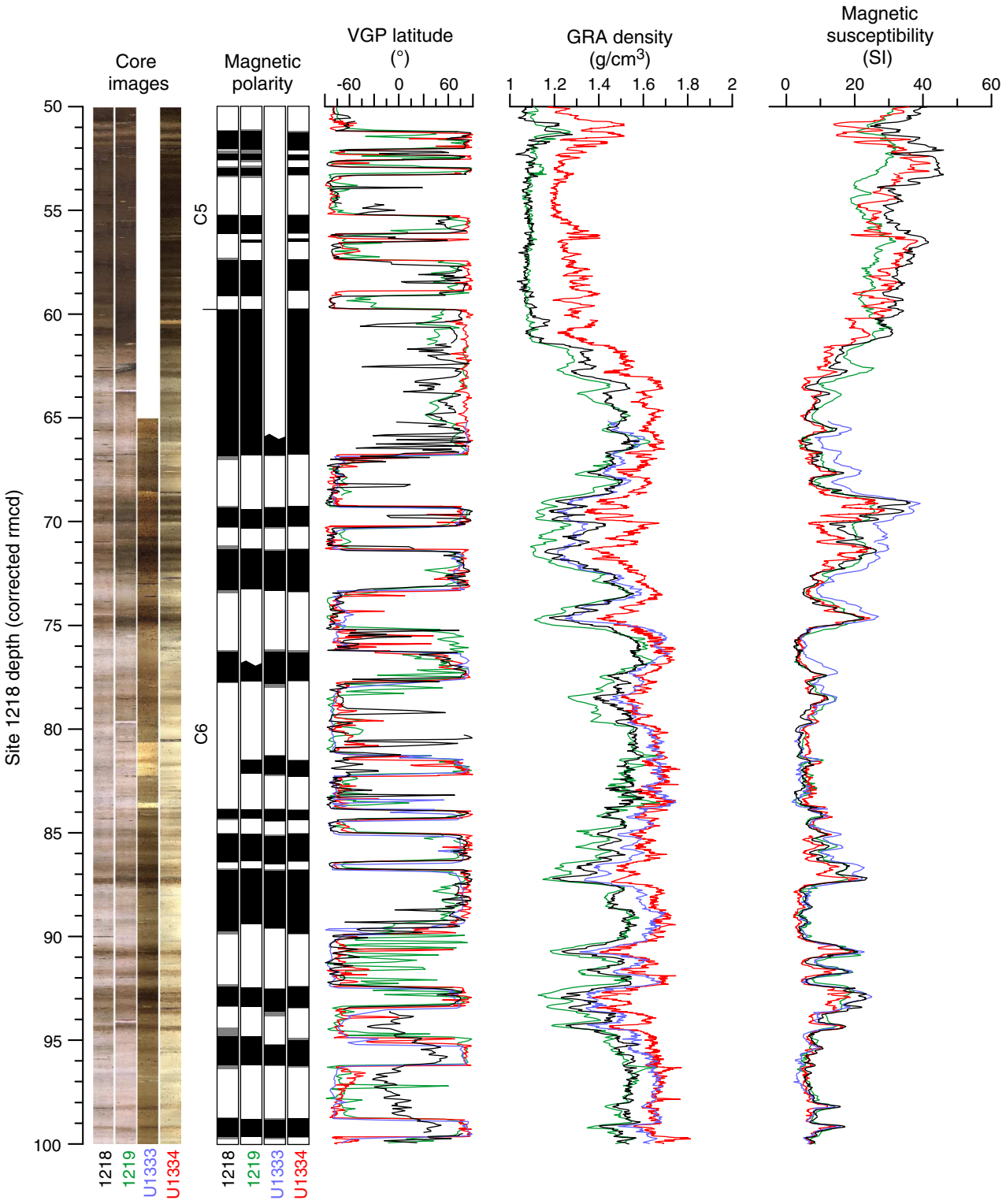


Figure F22 (continued). (Continued on next page.)

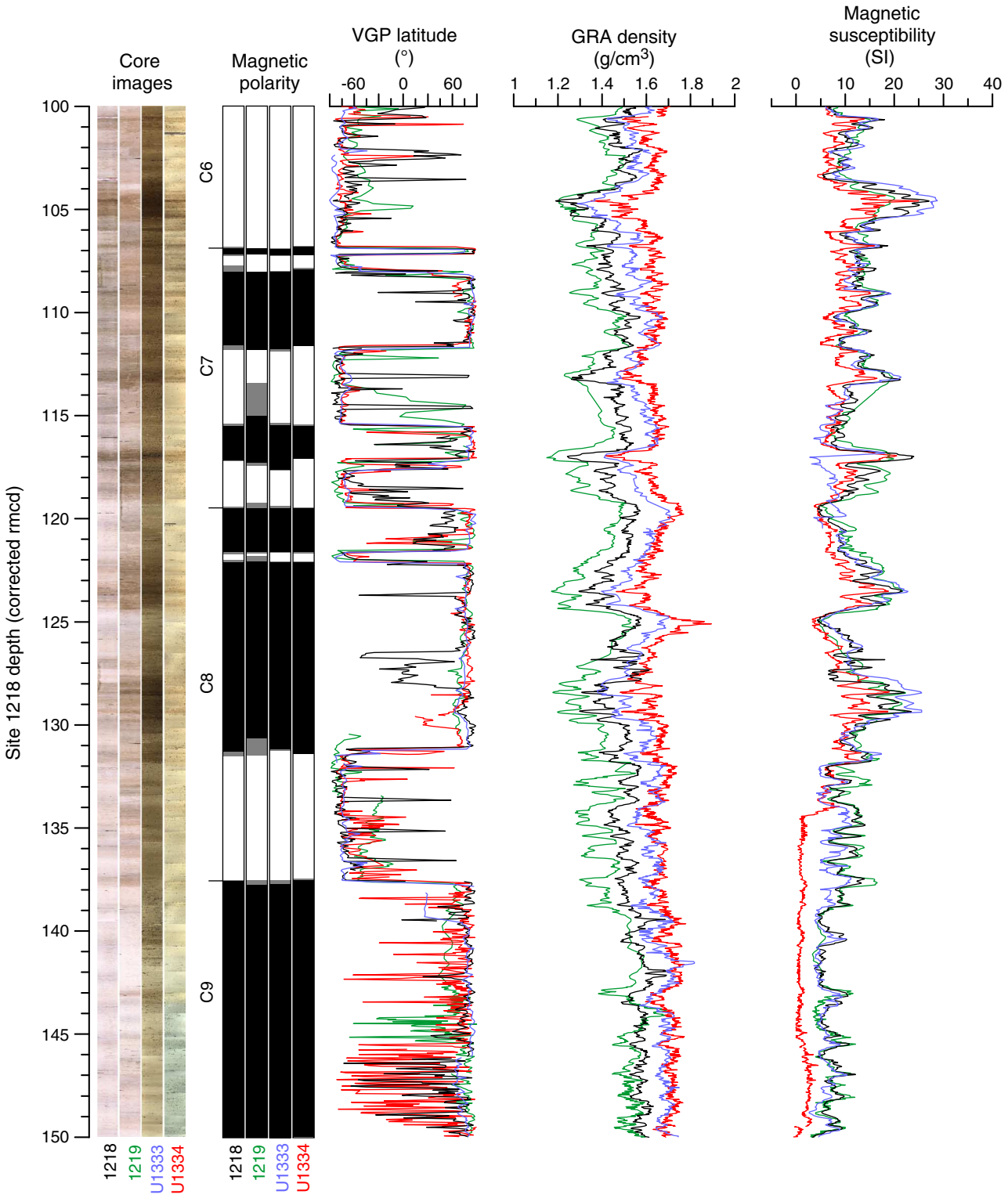


Figure F22 (continued). (Continued on next page.)

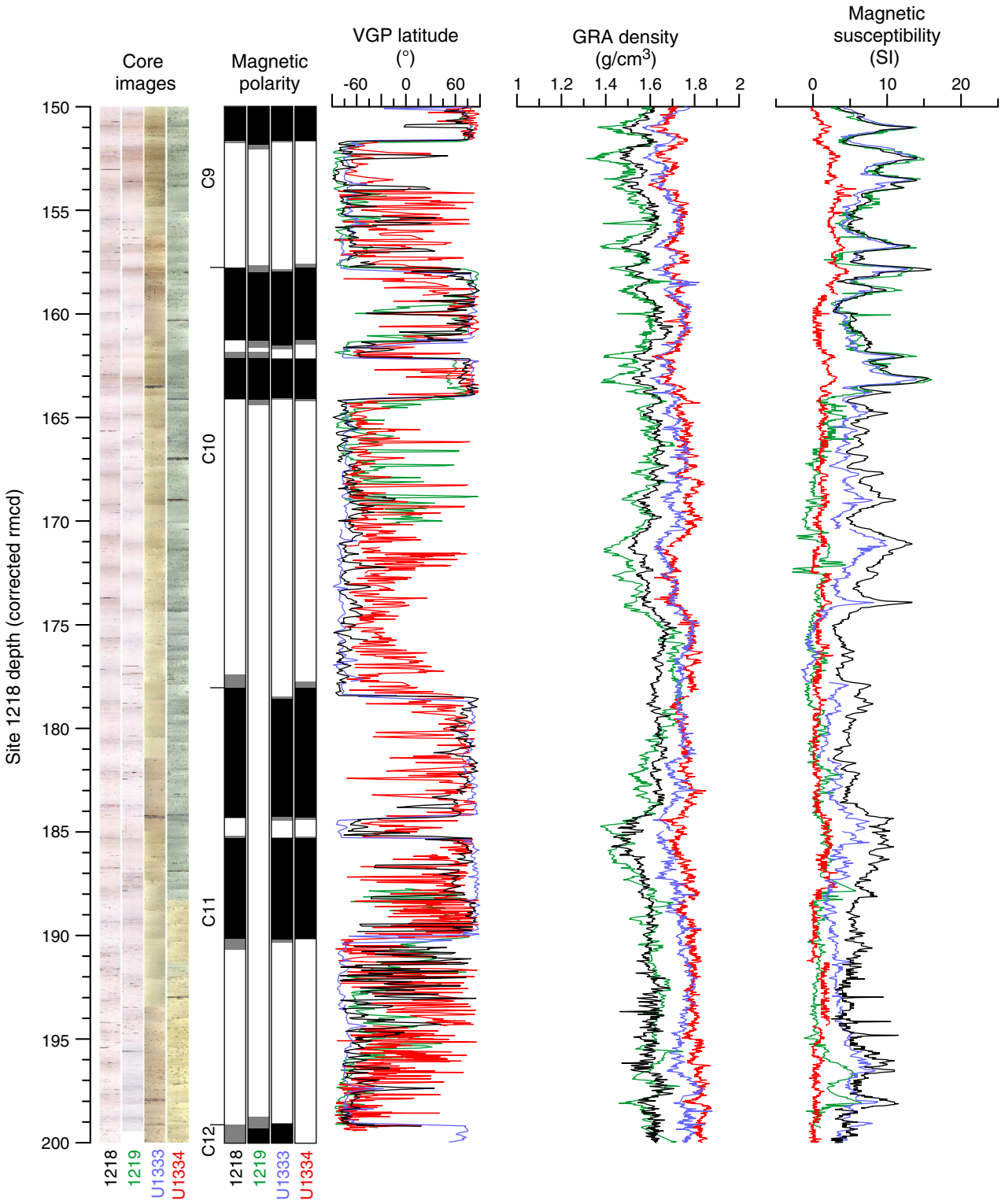


Figure F22 (continued). (Continued on next page.)

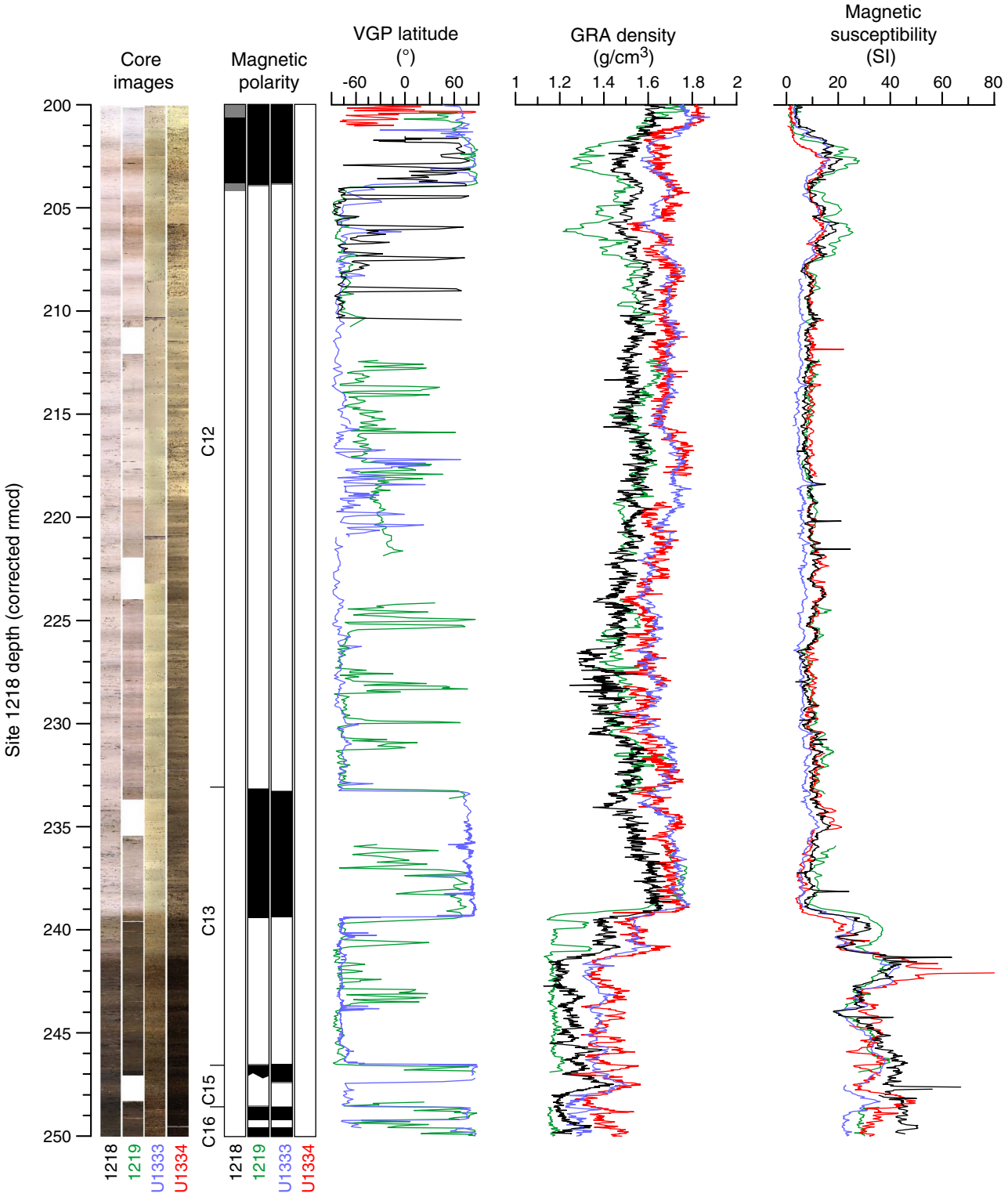


Figure F22 (continued).

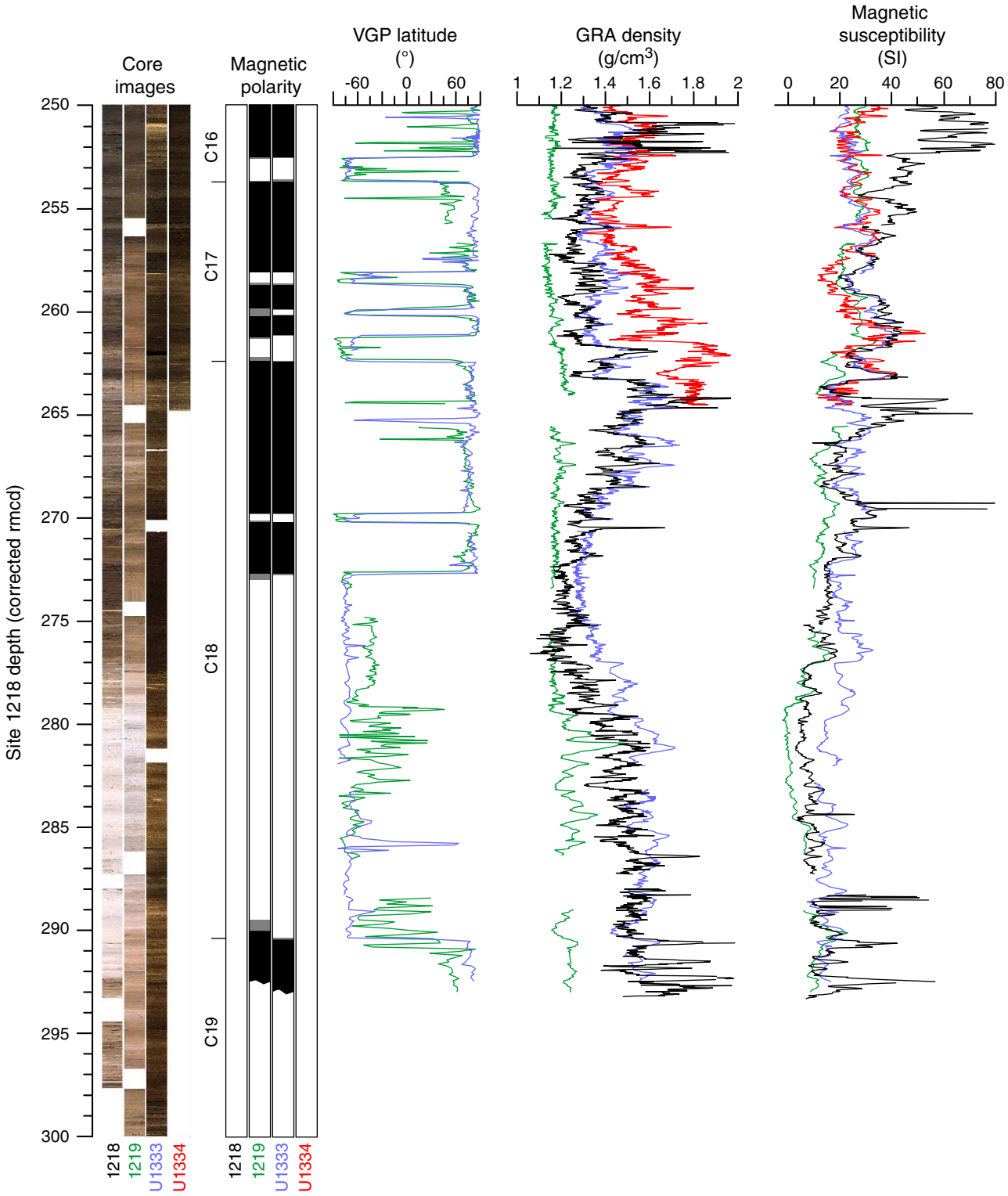


Figure F23. Site-to-site correlation of paleomagnetic and physical property data from Sites 1220, U1331, and U1332 on rmcd scale of Site 1220. VGP = virtual geomagnetic pole, GRA = gamma ray attenuation. Black = Site 1220, blue = Site U1331, red = Site U1332. Composite record lines are discontinuous because of distortion and data gaps. (Continued on next two pages.)

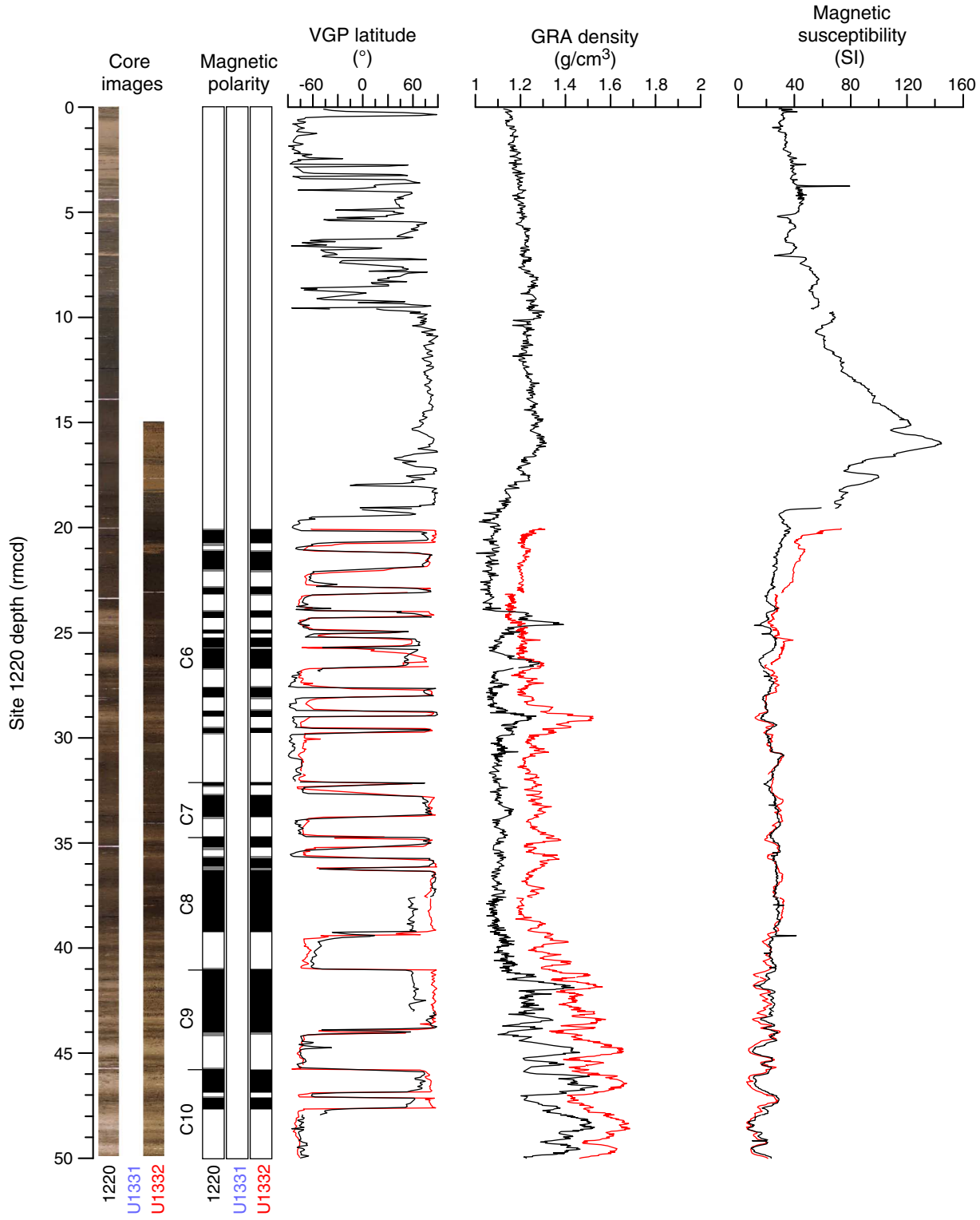


Figure F23 (continued). (Continued on next page.)

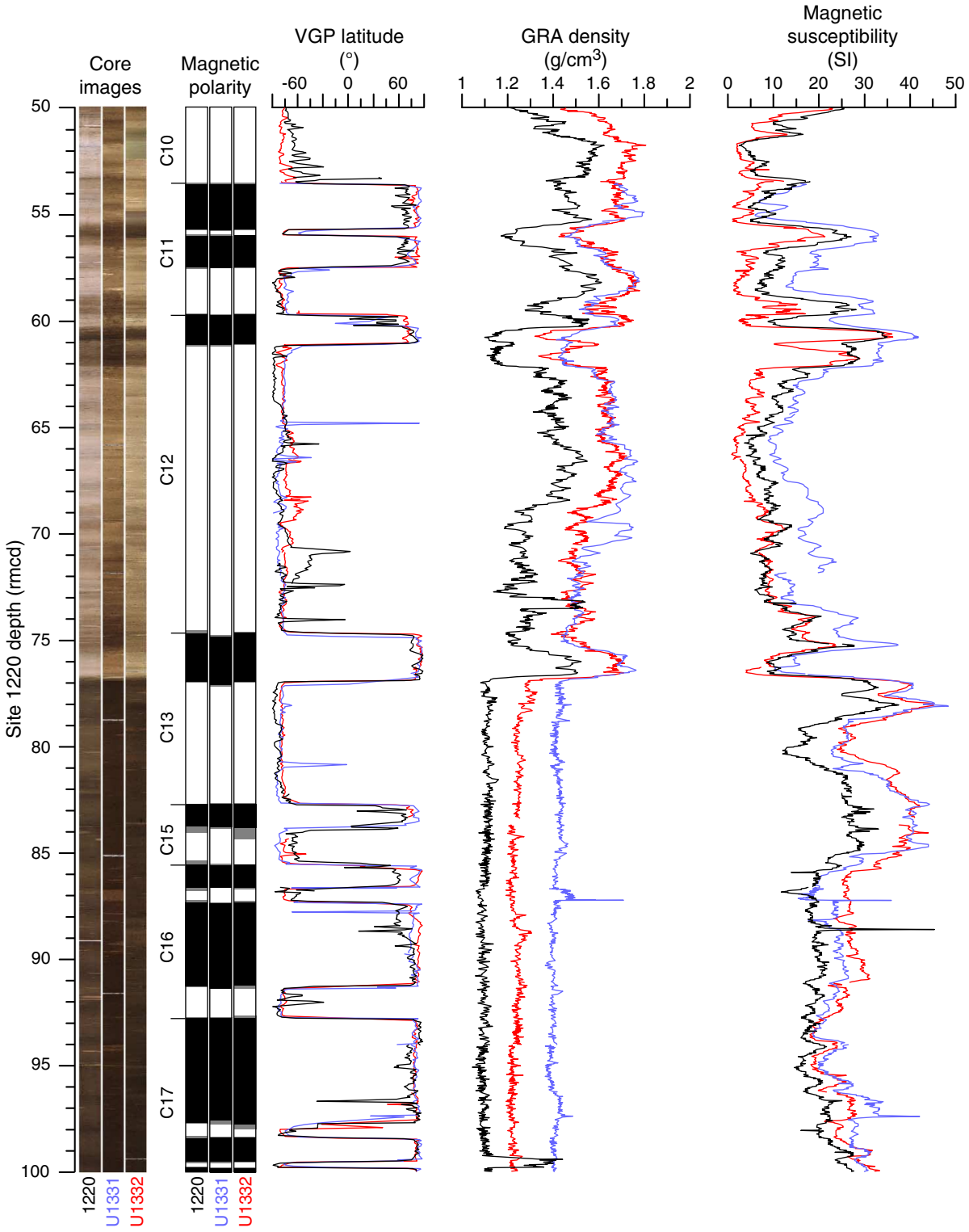


Figure F23 (continued).

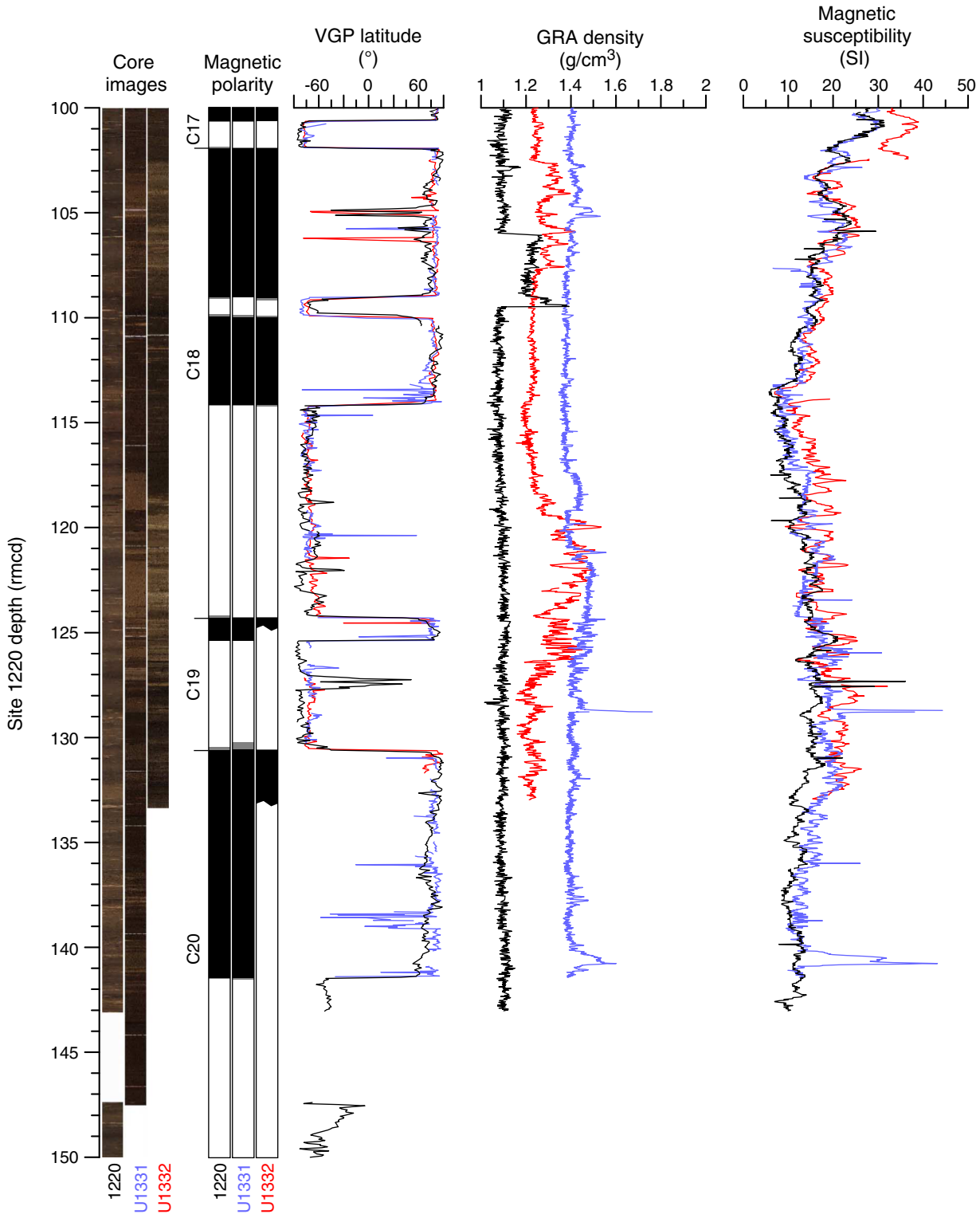


Figure F24. Estimate of linear sedimentation rates for Sites 1218, 1219, 1220, U1331, U1332, U1333, and U1334 by plotting paleomagnetic chronostratigraphic markers from Table T31.

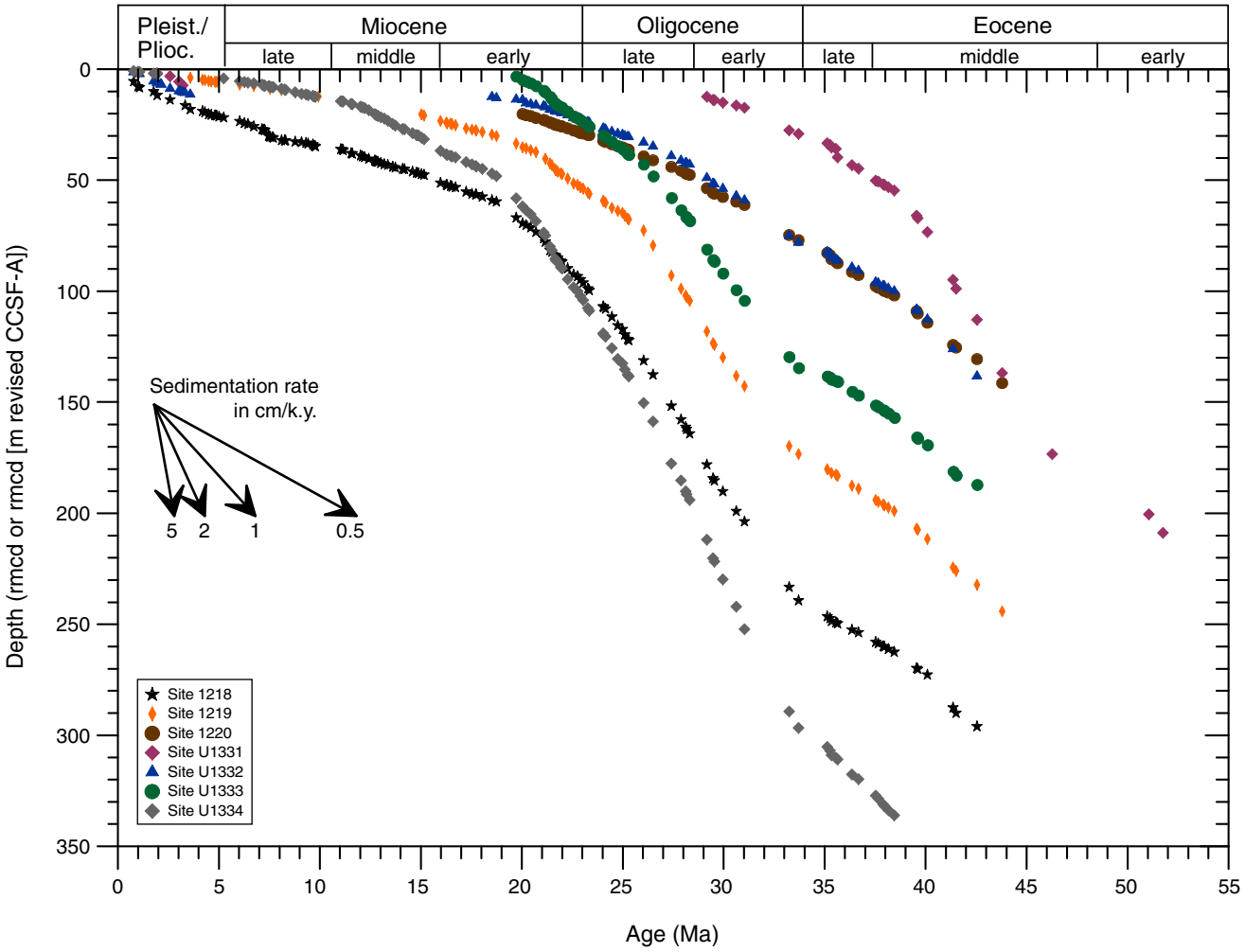


Table T1. Revised shipboard composite and corrected composite depths, Site U1331.

Core	Depth (mbsf [m CSF-A])	Offset (m)	Top depth (rmcd [m revised CCSF-A])
320-U1331A-			
1H	0.00	0.00	0.00
2H	5.20	1.50	6.70
3H	14.70	2.91	17.61
4H	24.20	3.26	*27.46*
5H	33.70	**5.25**	**38.95**
6H	43.20	*7.16*	*50.36*
7H	52.70	**9.81**	**62.51**
8H	62.20	**10.77**	**72.97**
9H	71.70	*11.36*	*83.06*
10H	81.20	**10.88**	**92.08**
11H	90.70	**13.22**	**103.92**
12H	100.20	**16.13**	**116.33**
13H	109.70	*17.97*	*127.67*
14H	119.20	*19.09*	*138.29*
15H	128.70	**20.96**	**149.66**
16X	138.20	**19.81**	**158.01**
17X	147.60	**20.40**	**168.00**
18X	157.30	*20.40*	*177.70*
19X	160.50	*20.40*	*180.90*
20X	167.00	*20.40*	*187.40*
21X	176.70	*20.40*	*197.10*
22X	186.40	*20.40*	*206.80*
320-U1331B-			
1H	0.00	0.85	0.85
2H	10.10	0.27	10.37
3H	19.60	2.98	22.58
4H	29.10	**3.75**	**32.85**
5H	38.60	**5.51**	**44.11**
6H	48.10	*7.09*	*55.19*
7H	57.60	**8.31**	**65.91**
8H	67.10	**10.79**	**77.89**
9H	76.60	**12.45**	**89.05**
10H	86.10	**13.20**	**99.30**
11H	95.60	**15.03**	**110.63**
12H	105.10	*16.54*	*121.64*
13H	114.60	*17.73*	*132.33*
14H	124.10	**19.60**	**143.70**
15H	133.60	**20.30**	**153.90**
16H	143.10	**22.85**	**165.95**
17H	152.60	*24.93*	*177.53*
18X	156.60	*24.93*	*181.53*
320-U1331C-			
1H	0.00	0.54	0.54
2H	9.50	2.12	11.62
3H	19.00	**2.40**	**21.40**
4H	28.50	**2.50**	**31.00**
6H	59.00	**11.46**	**70.46**
8H	92.50	**14.39**	**106.89**
10H	102.50	**15.09**	**117.59**
12H	129.00	**19.43**	**148.43**
13H	138.50	**20.50**	**159.00**
14H	148.00	**21.25**	**169.25**
16H	177.00	*21.25*	*198.25*
17H	184.00	**22.75**	**206.75**

Bold = changes to ship CCSF, italics = ship splice, but CCSF shifted according to new offsets higher in the section.

Table T2. Revised splice tie points, Site U1331.

Hole, core, section, interval (cm)	Depth (mbsf [m CSF-A])	Depth (rmcd [m revised CCSF-A])		Hole, core, section, interval (cm)	Depth (mbsf [m CSF-A])	Depth (rmcd [m revised CCSF-A])
320-				320-		
U1331A-1H-3, 103	4.00	4.00	Tie to	U1331C-1H-3, 46	3.46	4.00
U1331C-1H-5, 94	6.95	7.48	Tie to	U1331A-2H-1, 79	5.98	7.48
U1331A-2H-5, 79	12.00	13.50	Tie to	U1331C-2H-2, 38	11.38	13.50
U1331C-2H-6, 25	17.25	19.37	Tie to	U1331A-3H-2, 26	16.46	19.37
U1331A-3H-6, 3	22.23	25.14	Tie to	U1331B-3H-2, 106	22.16	25.14
U1331B-3H-5, 18	25.78	28.76	Tie to	U1331A-4H-1, 130	25.50	28.76
U1331A-4H-6, 108	**32.78**	**36.04**	Tie to	**U1331B-4H-3, 19**	**32.29**	**36.04**
U1331B-4H-6, 137	**39.47**	**41.72**	Tie to	**U1331A-5H-2, 127**	**36.47**	**41.72**
U1331A-5H-5, 120	**40.90**	**46.15**	Tie to	**U1331B-5H-2, 54**	**40.64**	**46.15**
U1331B-5H-7, 66	*47.76*	*53.27*	Tie to	*U1331A-6H-2, 141*	*46.11*	*53.27*
U1331A-6H-6, 38	**51.08**	**59.31**	Tie to	**U1331B-6H-3, 5**	**51.15**	**58.24**
U1331B-6H-6, 116	**56.76**	**63.85**	Tie to	**U1331A-7H-1, 134**	**54.04**	**63.85**
U1331A-7H-7, 31	*62.01*	*71.82*	Tie to	*U1331C-6H-1, 136*	*60.36*	*71.82*
U1331C-6H-4, 108	**64.58**	**76.04**	Tie to	**U1331A-8H-3, 7**	**65.27**	**76.04**
U1331A-8H-5, 94	*69.14*	*79.91*	Tie to	*U1331B-8H-2, 52*	*69.12*	*79.91*
U1331B-8H-6, 50	*75.10*	*85.89*	Tie to	*U1331A-9H-2, 133*	*74.53*	*85.89*
U1331A-9H-6, 4	**79.24**	**90.60**	Tie to	**U1331B-9H-2, 4**	**78.15**	**90.60**
U1331B-9H-3, 147	*81.07*	*93.52*	Tie to	*U1331A-10H-1, 144*	*82.64*	*93.52*
U1331A-10H-5, 148	**88.68**	**99.56**	Tie to	**U1331B-10H-1, 26**	**86.36**	**99.56**
U1331B-10H-6, 122	**94.82**	**108.02**	Tie to	**U1331A-11H-4, 42**	**94.80**	**108.02**
U1331A-11H-6, 150	**98.88**	**112.10**	Tie to	**U1331B-11H-2, 147**	**97.07**	**112.10**
U1331B-11H-7, 23	*104.83*	*119.86*	Tie to	*U1331A-12H-3, 53*	*103.73*	*119.86*
U1331A-12H-5, 132	*107.52*	*123.62*	Tie to	*U1331B-12H-2, 48*	*107.08*	*123.62*
U1331B-12H-6, 69	*113.29*	*129.83*	Tie to	*U1331A-13H-2, 66*	*111.86*	*129.83*
U1331A-13H-6, 86	*118.06*	*136.03*	Tie to	*U1331B-13H-3, 70*	*118.30*	*136.03*
U1331B-13H-6, 91	**123.01**	**140.74**	Tie to	**U1331A-14H-2, 98**	**121.65**	**140.74**
U1331A-14H-5, 148	**126.65**	**145.74**	Tie to	**U1331B-14H-2, 54**	**126.14**	**145.74**
U1331B-14H-5, 55	*130.65*	*150.25*	Tie to	*U1331C-12H-2, 32*	*130.82*	*150.25*
U1331C-12H-7, 7	**137.87**	**157.30**	Tie to	**U1331A-15H-6, 14**	**136.34**	**157.30**
U1331A-15H-7, 52	**138.22**	**159.18**	Tie to	**U1331B-15H-4, 78**	**138.88**	**159.18**
U1331B-15H-5, 148	**141.08**	**161.38**	Tie to	**U1331C-13H-2, 88**	**140.88**	**161.38**
U1331C-13H-6, 56	**146.56**	**167.06**	Tie to	**U1331B-16H-1, 111**	**144.21**	**167.06**
U1331B-16H-3, 63	**146.73**	**169.58**	Tie to	**U1331A-17X-2, 8**	**149.18**	**169.58**

Bold = new splice tie point, italics = old splice tie points with new revised composite depth.

Table T3. Mapping pairs for adjusting cores to the rmcd (m revised CCSF-A) splice, Site U1331. (Continued on next page.)

Core	Depth (mbsf [m CSF-A])	Depth (rmcd [m revised CCSF-A])	Depth (rmcd [adjusted m revised CCSF-A])
320-U1331A-			
1H	*0.01*	*0.01*	*0.01*
1H	*4.00*	*4.00*	*4.00*
1H	5.19	5.19	5.19
2H	5.20	6.70	6.70
2H	*5.98*	*7.48*	*7.48*
2H	*12.00*	*13.50*	*13.50*
2H	12.90	14.40	14.45
2H	13.90	15.40	15.49
2H	14.49	15.99	16.05
2H	15.07	16.51	16.57
3H	14.70	17.61	17.61
3H	15.06	17.97	18.08
3H	15.86	18.77	18.83
3H	16.26	19.17	19.12
3H	*16.46*	*19.37*	*19.37*
3H	*22.23*	*25.14*	*25.14*
3H	23.68	26.59	26.60
3H	24.04	26.95	26.99
3H	24.39	27.26	27.30
4H	24.20	27.46	27.46
4H	*25.50*	*28.76*	*28.76*
4H	*32.78*	*36.04*	*36.04*
4H	34.19	37.45	37.45
5H	33.70	38.95	38.95
5H	*36.47*	*41.72*	*41.72*
5H	*40.90*	*46.15*	*46.15*
5H	41.65	46.90	46.94
5H	43.02	48.27	48.43
6H	43.20	50.36	50.42
6H	43.85	51.01	51.07
6H	45.69	52.85	52.85
6H	*46.11*	*53.27*	*53.27*
6H	*51.08*	*58.24*	*58.24*
6H	51.60	58.76	58.87
6H	51.80	58.96	59.09
6H	52.41	59.57	59.57
6H	52.65	59.81	59.95
7H	52.70	62.51	62.51
7H	*54.04*	*63.85*	*63.85*
7H	*62.01*	*71.82*	*71.82*
7H	62.65	72.46	72.46
8H	62.20	72.97	72.77
8H	63.76	74.53	74.33
8H	63.86	74.63	74.43
8H	*65.27*	*76.04*	*76.04*
8H	*69.14*	*79.91*	*79.91*
8H	72.22	82.99	82.99
9H	71.70	83.06	83.05
9H	72.95	84.31	84.30
9H	73.81	85.17	85.14
9H	74.08	85.44	85.34
9H	*74.53*	*85.89*	*85.89*
9H	*79.24*	*90.60*	*90.60*
9H	81.66	93.02	93.02
10H	81.20	92.08	92.08
10H	*82.64*	*93.52*	*93.52*
10H	*88.68*	*99.56*	*99.56*
10H	89.95	100.83	100.58
10H	90.22	101.10	100.85
10H	90.53	101.41	101.16
11H	90.70	103.92	103.92
11H	*94.80*	*108.02*	*108.02*
11H	*98.88*	*112.10*	*112.10*
11H	99.52	112.74	112.74
12H	100.20	116.33	116.20
12H	101.50	117.63	117.50
12H	*103.73*	*119.86*	*119.86*
12H	*107.49*	*123.62*	*123.62*
12H	108.25	124.38	124.47
12H	109.70	125.83	126.17
12H	110.20	126.33	126.67
13H	109.70	127.67	127.39
13H	110.15	128.12	127.84
13H	*111.86*	*129.83*	*129.83*
13H	*118.06*	*136.03*	*136.03*
13H	119.63	137.60	137.60
14H	119.20	138.29	138.29
14H	*121.65*	*140.74*	*140.74*
14H	*126.65*	*145.74*	*145.74*
14H	127.55	146.64	146.53
14H	128.17	147.26	147.19
14H	129.28	148.37	148.37
15H	128.70	149.66	149.04
15H	129.88	150.84	150.22
15H	132.36	153.32	153.17
15H	*136.34*	*157.30*	*157.30*
15H	*138.22*	*159.18*	*159.18*
15H	138.60	159.56	159.56
16X	138.20	158.01	158.01
16X	139.30	159.11	159.11
17X	147.60	168.00	168.00
17X	157.06	177.46	177.46
18X	157.30	177.70	177.70
18X	157.55	177.95	177.95
19X	160.50	180.90	180.90
19X	162.41	182.81	182.81
320-U1331B-			
1H	0.00	0.85	0.85
1H	5.62	6.47	6.57
1H	6.68	7.53	7.59
1H	7.62	8.47	8.53
1H	9.35	10.20	10.19
1H	9.74	10.59	10.58
1H	10.06	10.91	10.90
2H	10.10	10.37	10.14
2H	11.77	12.04	12.27
2H	12.85	13.12	13.30
2H	15.18	15.45	15.49
2H	18.30	18.57	18.48
2H	20.13	20.40	20.31
3H	19.60	22.58	22.68
3H	21.01	23.99	24.09
3H	21.81	24.79	24.82
3H	22.16	25.14	25.14
3H	*25.78*	*28.76*	*28.76*
3H	*26.35*	*29.33*	*29.42*
3H	28.76	31.74	31.72
3H	29.54	32.52	32.50
4H	29.10	32.85	32.85
4H	*32.29*	*36.04*	*36.04*
4H	*37.97*	*41.72*	*41.72*
4H	39.17	42.92	42.92
5H	38.60	44.11	43.81
5H	39.48	44.99	44.69
5H	40.15	45.66	45.66
5H	*40.64*	*46.15*	*46.15*
5H	*47.76*	*53.27*	*53.27*
5H	48.10	53.61	53.61
6H	48.10	55.19	54.94
6H	49.48	56.57	56.32
6H	*51.15*	*58.24*	*58.24*
6H	*56.76*	*63.85*	*63.85*
6H	58.25	65.34	65.34
7H	57.60	65.91	66.33
7H	59.00	67.31	67.73
7H	59.68	67.99	68.02
7H	60.62	68.93	68.90
7H	63.46	71.77	71.77
7H	65.01	73.32	73.53
7H	66.11	74.42	74.45
7H	66.63	74.94	74.94
7H	67.21	75.52	75.52
8H	67.10	77.89	77.80
8H	68.10	78.89	78.80
8H	*69.12*	*79.91*	*79.91*
8H	*75.10*	*85.89*	*85.89*
8H	77.19	87.98	87.98
9H	76.60	89.05	89.05
9H	*78.15*	*90.60*	*90.60*
9H	*81.07*	*93.52*	*93.52*
9H	82.66	95.11	95.11
9H	83.05	95.50	95.48
9H	83.53	95.98	95.83
9H	84.98	97.43	97.19
9H	86.08	98.53	98.17
9H	86.65	99.10	98.74
10H	86.10	99.30	99.30
10H	*86.36*	*99.56*	*99.56*
10H	*94.82*	*108.02*	*108.02*
10H	95.07	108.27	108.22
10H	96.14	109.34	109.29
11H	95.60	110.63	110.64
11H	96.13	111.16	111.17
11H	96.69	111.72	111.82
11H	*97.07*	*112.10*	*112.10*
11H	*104.83*	*119.86*	*119.86*
11H	105.47	120.50	120.38
11H	105.70	120.73	120.61
12H	105.10	121.64	121.64
12H	*107.08*	*123.62*	*123.62*
12H	*113.29*	*129.83*	*129.83*
12H	115.02	131.56	131.56
13H	114.60	132.33	132.81
13H	115.27	133.00	133.48
13H	115.69	135.29	135.36
13H	*118.30*	*136.03*	*136.03*
13H	*123.01*	*140.74*	*140.74*
13H	124.41	142.14	142.14
14H	124.10	143.70	143.51
14H	124.25	143.85	143.66
14H	124.68	144.28	144.07
14H	125.58	145.18	145.14
14H	*126.14*	*145.74*	*145.74*
14H	*130.65*	*150.25*	*150.25*
14H	132.41	152.01	152.01
14H	133.43	153.03	153.17
14H	134.03	153.63	153.63
15H	133.60	153.90	153.90
15H	*138.88*	*159.18*	*159.18*
15H	*141.08*	*161.38*	*161.38*
15H	143.62	163.92	163.92
16H	143.10	165.95	165.95
16H	*144.21*	*167.06*	*167.06*
16H	*146.73*	*169.58*	*169.58*

Table T3 (continued).

Core	Depth (mbsf [m CSF-A])	Depth (rmcd [m revised CCSF-A])	Depth (rmcd [adjusted m revised CCSF-A])
16H	149.24	172.09	172.36
16H	149.21	174.14	174.21
16H	149.86	174.79	174.60
16H	152.50	175.35	175.16
17H	152.60	177.53	177.53
17H	156.88	181.81	181.81
320-U1331C-			
1H	0.00	0.54	0.54
1H	*3.46*	*4.00*	*4.00*
1H	*6.94*	*7.48*	*7.48*
1H	9.46	10.00	10.00
2H	9.50	11.62	11.54
2H	10.08	12.20	12.12
2H	10.80	12.92	12.90
2H	11.25	13.37	13.32
2H	*11.38*	*13.50*	*13.50*
2H	*17.25*	*19.37*	*19.37*
2H	17.83	19.95	20.00
2H	18.23	20.35	20.30
2H	18.46	20.58	20.64
2H	18.98	21.10	21.21
2H	19.52	21.64	21.75
3H	19.00	21.40	20.92
3H	20.34	22.74	22.26
3H	22.05	24.45	24.09
3H	23.18	25.58	25.24
3H	24.84	27.24	27.00
3H	25.47	27.87	27.77
3H	25.94	28.34	28.15
3H	26.31	28.71	28.63
3H	27.02	29.42	29.42
3H	27.35	29.75	29.89
3H	28.25	30.65	30.70
3H	28.77	31.17	31.22
4H	28.50	31.00	31.00
4H	36.34	38.84	38.96
4H	38.49	40.99	40.99
6H	59.00	70.46	70.46
6H	*60.36*	*71.82*	*71.82*
6H	*64.58*	*76.04*	*76.04*
6H	65.63	77.09	76.94
6H	67.62	79.08	78.82
6H	68.25	79.71	79.29
6H	68.25	79.71	79.29
6H	68.54	80.00	79.58
8H	92.50	106.89	106.89
8H	95.48	109.87	109.87
8H	101.71	116.10	116.10
10H	102.50	117.59	117.59
10H	106.08	121.17	121.17
10H	107.59	122.68	122.68
10H	108.19	123.28	123.28
10H	110.54	125.63	125.48
10H	110.98	126.07	125.92
12H	129.00	148.43	148.43
12H	129.10	148.53	148.35
12H	*130.82*	*150.25*	*150.25*
12H	*137.87*	*157.30*	*157.30*
12H	139.05	158.48	158.48
13H	138.50	159.00	159.00
13H	*140.88*	*161.38*	*161.38*
13H	*146.56*	*167.06*	*167.06*
13H	148.59	169.09	169.09
14H	148.00	169.25	168.92
14H	151.29	172.54	172.21
14H	149.60	170.85	170.20
14H	154.32	175.57	175.17
14H	155.52	176.77	176.20
14H	156.94	178.19	177.62
16H	177.00	198.25	198.25
16H	185.46	206.71	206.71
17H	184.00	206.75	206.75
17H	189.53	212.28	212.28

Italics = splice tie points.

Table T4. Turbidites in Site U1331 revised splice.

Top of turbidite: Hole, core, section, interval (cm)	Top of turbidite: Depth (mbsf [m CSF-A])	Top of turbidite: Depth (rmcd [m revised CCSF-A])		Base of turbidite: Hole, core, section, interval (cm)	Base of turbidite: Depth (mbsf [m CSF-A])	Base of turbidite: Depth (rmcd [m revised CCSF-A])	Thickness (rmcd [m revised CCSF-A])
320-				320-			
U1331A-3H-4, 52	19.72	22.63	Down to	U1331A-3H-4, 72.5	19.92	22.83	0.21
U1331A-4H-6, 106	32.76	36.02	Down to	U1331B-4H-5, 8	36.68	38.94	2.92
U1331A-6H-4, 86	48.56	55.72	Down to	U1331A-6H-4, 143	49.13	56.29	0.57
U1331A-6H-5, 148	50.68	57.84	Down to	U1331B-6H-3, 88	51.98	59.07	1.23
U1331B-6H-3, 110	52.20	59.29	Down to	U1331B-6H-4, 32	52.92	60.01	0.72
U1331B-8H-2, 66	69.26	80.05	Down to	U1331B-8H-5, 6	73.16	83.95	3.90
U1331A-9H-4, 138	77.58	88.94	Down to	U1331B-9H-4, 124	82.34	94.79	5.85
U1331A-10H-3, 38	84.58	95.46	Down to	U1331A-10H-3, 44	84.64	95.52	0.06
U1331B-10H-1, 50	86.60	99.80	Down to	U1331B-10H-2, 10	87.70	100.90	1.10
U1331B-10H-5, 85	92.95	106.15	Down to	U1331A-11H-4, 43	94.84	108.03	1.88
U1331A-11H-6, 149	98.87	112.09	Down to	U1331B-11H-3, 23	98.83	113.86	1.77
U1331B-11H-4, 10	100.20	115.23	Down to	U1331B-11H-4, 79	100.89	115.92	0.69
U1331B-11H-4, 112	101.22	116.25	Down to	U1331B-11H-5, 40	102.00	117.03	0.78
U1331A-12H-4, 86	105.56	121.69	Down to	U1331A-12H-5, 22	106.42	122.55	0.86
U1331B-12H-2, 70	107.30	123.84	Down to	U1331B-12H-2, 90	107.50	124.04	0.20
U1331A-13H-3, 22	112.92	130.89	Down to	U1331A-13H-3, 35	113.05	131.05	0.16
U1331A-13H-5, 36	116.06	134.03	Down to	U1331A-13H-6, 45	117.65	135.62	1.59
U1331B-14H-3, 40	127.50	147.10	Down to	U1331B-14H-3, 55	127.65	147.25	0.15
U1331B-14H-4, 40	129.00	148.60	Down to	U1331B-14H-4, 51	129.13	148.73	0.13

Table T5. Revised shipboard composite and corrected composite depths, Site U1332.

Core	Depth (mbsf [m CSF-A])	Offset (m)	Top depth (rmcd [m revised CCSF-A])
320-U1332A-			
1H	0.00	0.00	0.00
2H	3.90	0.31	4.21
3H	13.40	0.65	14.05
4H	22.90	**2.55**	**25.45**
5H	32.40	*5.05*	*37.45*
6H	41.90	**5.50**	**47.40**
7H	51.40	*7.75*	*59.15*
8H	60.90	*7.35*	*68.25*
9H	70.40	*2.63*	*73.03*
10H	79.90	**3.30**	**83.20**
11H	89.40	**3.38**	**92.78**
12H	98.90	**6.22**	**105.12**
13H	108.40	**8.62**	**117.02**
14X	117.50	**12.50**	**130.00**
15X	125.90	*13.50*	*139.40*
16X	135.50	*13.50*	*149.00*
17X	144.50	*13.50*	*158.00*
18X	150.40	*13.50*	*163.90*
320-U1332B-			
1H	0.00	0.15	0.15
2H	2.10	0.65	2.75
3H	11.60	2.15	13.75
4H	19.60	**4.15**	**23.75**
5H	29.10	*4.25*	*33.35*
6H	38.60	*7.05*	*45.65*
7H	48.10	**10.35**	**58.45**
8H	57.60	*10.05*	*67.65*
9H	67.10	*3.75*	*70.85*
10H	76.60	**5.53**	**82.13**
11H	86.10	**5.89**	**91.99**
12H	91.10	**9.27**	**100.37**
13H	100.60	**10.48**	**111.08**
14X	110.10	**11.48**	**121.58**
15X	116.10	**16.05**	**132.15**
16X	124.60	*18.08*	*142.68*
17X	134.30	*18.08*	*152.38*
18X	143.90	*15.90*	*159.80*
320-U1332C-			
1H	0.00	0.04	0.04
2H	7.50	0.49	*7.99*
3H	17.00	0.25	17.25
4H	26.50	**2.35**	**28.85**
5H	36.00	*4.15*	*40.15*
6H	45.50	*3.35*	*48.85*
7H	49.50	**6.80**	**56.30**
8H	59.00	*7.51*	*66.51*
9H	66.00	*0.95*	*66.95*
10H	75.50	*0.55*	*76.05*
11H	85.00	**3.43**	**88.43**
12H	94.50	**4.84**	**99.34**
13H	104.00	**5.60**	**109.60**
14X	113.50	**7.96**	**121.46**
15X	118.00	*10.76*	*128.76*
16X	127.60	**11.82**	**139.42**
17X	137.20	*11.82*	*149.02*
18X	146.90	*13.82*	*160.72*

Bold = changes to ship CCSF, italics = ship splice, but CCSF shifted according to new offsets higher up in the section.

Table T6. Revised splice tie points, Site U1332.

Hole, core, section, interval (cm)	Depth (mbsf [m CSF-A])	Depth (rmcd [m revised CCSF-A])		Hole, core, section, interval (cm)	Depth (mbsf [m CSF-A])	Depth (rmcd [m revised CCSF-A])
320-				320-		
U1332A-1H-2, 110	2.60	2.60	Tie to	U1332C-1H-2, 104	2.55	2.60
U1332C-1H-5, 61	6.60	6.65	Tie to	U1332A-2H-2, 94	6.34	6.65
U1332A-2H-5, 125	11.15	11.46	Tie to	U1332C-2H-3, 47	10.97	11.46
U1332C-2H-6, 146	16.46	16.95	Tie to	U1332A-3H-2, 138	16.28	16.95
U1332A-3H-5, 38	19.78	20.43	Tie to	U1332C-3H-3, 18	20.18	20.43
U1332C-3H-7, 5	**26.05**	**26.30**	Tie to	**U1332A-4H-1, 85**	**23.75**	**26.30**
U1332A-4H-5, 20	*29.10*	*31.65*	Tie to	*U1332C-4H-2, 130*	*29.30*	*31.65*
U1332C-4H-5, 45	*32.95*	*35.30*	Tie to	*U1332B-5H-2, 45*	*31.05*	*35.30*
U1332B-5H-5, 151	*36.60*	*40.85*	Tie to	*U1332C-5H-1, 70*	*36.70*	*40.85*
U1332C-5H-6, 103	**44.53**	**48.68**	Tie to	**U1332A-6H-1, 128**	**43.18**	**48.68**
U1332A-6H-7, 30	*51.20*	*56.70*	Tie to	*U1332C-7H-1, 40*	*49.90*	*56.70*
U1332C-7H-7, 27	*58.77*	*65.57*	Tie to	*U1332B-7H-5, 112*	*55.22*	*65.57*
U1332B-7H-7, 68	*57.78*	*68.13*	Tie to	*U1332C-8H-2, 12*	*60.62*	*68.13*
U1332C-8H-4, 34	*63.84*	*71.35*	Tie to	*U1332B-9H-1, 50*	*67.60*	*71.35*
U1332B-9H-5, 35	*73.45*	*77.20*	Tie to	*U1332A-9H-3, 117*	*74.57*	*77.20*
U1332A-9H-CC, 16	**83.38**	**83.01**	Tie to	**U1332B-10H-1, 88**	**77.48**	**83.01**
U1332B-10H-5, 92	**83.52**	**89.05**	Tie to	**U1332A-10H-4, 135**	**85.75**	**89.05**
U1332A-10H-6, 108	*88.48*	*91.78*	Tie to	*U1332C-11H-3, 35*	*88.35*	*91.78*
U1332C-11H-4, 140	**90.90**	**94.33**	Tie to	**U1332A-11H-2, 5**	**90.95**	**94.33**
U1332A-11H-6, 28	**97.18**	**100.56**	Tie to	**U1332C-12H-1, 122**	**95.72**	**100.56**
U1332C-12H-5, 131	**101.81**	**106.65**	Tie to	**U1332A-12H-2, 3**	**100.43**	**106.65**
U1332A-12H-5, 122	**106.12**	**112.34**	Tie to	**U1332C-13H-2, 124**	**106.74**	**112.34**
U1332C-13H-4, 26	**108.76**	**114.36**	Tie to	**U1332B-13H-3, 28**	**103.88**	**114.36**
U1332B-13H-6, 28	**108.38**	**118.86**	Tie to	**U1332A-13H-2, 34**	**110.24**	**118.86**
U1332A-13H-5, 118	**115.58**	**124.20**	Tie to	**U1332B-14X-2, 112**	**112.72**	**124.20**
U1332B-14X-6, 138	*118.98*	*130.46*	Tie to	*U1332C-15X-2, 20*	*119.70*	*130.46*
U1332C-15X-3, 115	**122.15**	**132.91**	Tie to	**U1332B-15X-1, 76**	**116.86**	**132.91**

Bold = new splice tie point, italics = old splice tie points with new revised composite depth.

Table T7. Mapping pairs for adjusting cores to the rmcd (m revised CCSF-A) splice, Site U1332. (Continued on next page.)

Core	Depth (mbsf [m CSF-A])	Depth (rmcd [m revised CCSF-A])	Depth (rmcd [adjusted m revised CCSF-A])
320-U1332A-			
1H	*0.01*	*0.01*	*0.01*
1H	*2.60*	*2.60*	*2.60*
1H	3.91	3.91	3.91
2H	3.90	4.21	4.03
2H	4.10	4.41	4.23
2H	5.52	5.83	5.83
2H	*6.34*	*6.65*	*6.65*
2H	*11.15*	*11.46*	*11.46*
2H	11.49	11.80	12.16
2H	12.01	12.32	12.64
2H	12.83	13.14	13.60
2H	13.67	13.98	14.44
3H	13.40	14.05	14.05
3H	*16.30*	*16.95*	*16.95*
3H	*19.78*	*20.43*	*20.43*
3H	23.09	23.74	23.22
3H	23.56	24.21	23.69
4H	22.90	25.45	25.45
4H	*23.75*	*26.30*	*26.30*
4H	*29.10*	*31.65*	*31.65*
4H	30.72	33.27	33.41
4H	32.34	34.89	35.14
4H	33.00	35.55	35.90
5H	32.40	37.45	36.91
5H	32.83	37.88	37.34
5H	33.58	38.63	38.31
5H	34.22	39.27	39.01
5H	35.49	40.54	40.52
5H	35.82	40.87	40.92
5H	36.45	41.50	41.57
5H	37.44	42.49	42.47
5H	38.43	43.48	43.55
5H	39.38	44.43	44.47
5H	40.69	45.74	45.72
5H	41.49	46.54	46.45
5H	42.52	47.57	47.48
6H	41.90	47.40	47.20
6H	42.80	48.30	48.10
6H	*43.18*	*48.68*	*48.68*
6H	*51.20*	*56.70*	*56.70*
6H	51.52	57.02	57.00
6H	52.02	57.52	57.50
7H	51.40	59.15	59.03
7H	51.93	59.68	59.56
7H	52.99	60.74	60.87
7H	53.84	61.59	61.82
7H	54.90	62.65	62.69
7H	55.75	63.50	63.25
7H	56.41	64.16	64.45
7H	59.87	67.62	67.20
7H	61.54	69.29	68.68
8H	60.90	68.25	68.30
8H	63.92	71.27	71.32
8H	65.90	73.25	73.39
8H	66.15	73.50	73.57
8H	66.75	74.10	74.15
8H	67.71	75.06	74.97
8H	68.45	75.80	75.63
8H	68.87	76.22	76.04
8H	69.57	76.92	76.69
8H	70.55	77.90	77.57
8H	71.05	78.40	78.07
9H	70.40	73.03	72.84
9H	70.75	73.38	73.19
9H	71.15	73.78	73.54
9H	71.68	74.31	74.15
9H	72.13	74.76	74.50
9H	72.56	75.19	75.00
9H	73.09	75.72	75.63
9H	73.50	76.13	76.03
9H	74.02	76.65	76.56
9H	*74.57*	*77.20*	*77.20*
9H	*80.38*	*83.01*	*83.01*
9H	80.52	83.15	83.15
10H	79.90	83.20	83.51
10H	81.28	84.58	84.89
10H	82.91	86.21	86.73
10H	84.40	87.70	88.09
10H	*85.75*	*89.05*	*89.05*
10H	*88.48*	*91.78*	*91.78*
10H	89.94	93.24	93.24
11H	89.40	92.78	92.78
11H	*90.95*	*94.33*	*94.33*
11H	*97.18*	*100.56*	*100.56*
11H	98.57	101.95	101.95
12H	98.90	105.12	105.12
12H	*100.43*	*106.65*	*106.65*
12H	*106.12*	*112.34*	*112.34*
12H	107.64	113.86	114.05
12H	108.15	114.37	114.85
12H	108.50	114.72	115.20
13H	108.40	117.02	117.17
13H	108.65	117.27	117.42
13H	*110.24*	*118.86*	*118.86*
13H	*115.58*	*124.20*	*124.20*
13H	116.87	125.49	125.64
13H	117.96	126.58	126.88
13H	118.43	127.05	127.35
14H	117.90	130.40	130.71
14H	120.29	132.79	133.10
14H	122.13	134.63	134.63
14H	125.24	137.74	138.92
14H	125.72	138.22	139.37
14H	126.33	138.83	140.01
15H	125.90	139.40	139.40
15H	132.98	146.48	146.48
16X	135.50	149.00	149.00
16X	135.25	148.75	148.75
17X	144.50	158.00	158.00
17X	148.26	161.76	161.76
18X	150.40	163.90	163.90
18X	150.56	164.06	164.06
320-U1332B-			
1H	0.01	0.16	0.16
1H	2.10	2.25	2.25
2H	2.10	2.75	2.10
2H	3.00	3.65	3.00
2H	3.85	4.50	4.06
2H	5.21	5.86	5.82
2H	6.14	6.79	6.79
2H	8.25	8.90	8.90
2H	10.32	10.97	10.47
2H	11.68	12.33	11.43
2H	12.14	12.79	11.89
3H	11.60	13.75	13.31
3H	13.96	16.11	15.67
3H	14.53	16.68	16.42
3H	15.73	17.88	17.81
3H	16.80	18.95	18.42
3H	18.32	20.47	20.55
3H	19.25	21.40	21.46
3H	20.02	22.17	22.17
4H	19.60	23.75	24.00
4H	20.37	24.52	24.77
4H	21.33	25.48	25.48
4H	23.29	27.44	27.44
4H	24.20	28.35	28.33
4H	24.81	28.96	29.04
4H	25.21	29.36	29.47
4H	28.71	32.86	33.40
4H	29.66	33.81	34.35
5H	29.10	33.35	33.35
5H	*31.05*	*35.30*	*35.30*
5H	*36.60*	*40.85*	*40.85*
5H	37.68	41.93	41.93
6H	38.60	45.65	45.23
6H	41.26	48.31	47.89
6H	41.84	48.89	48.64
6H	43.25	50.30	50.30
6H	44.52	51.57	51.72
6H	48.55	55.60	55.60
7H	48.10	58.45	58.45
7H	*55.22*	*65.57*	*65.57*
7H	*57.78*	*68.13*	*68.13*
7H	58.10	68.45	68.45
8H	57.60	67.65	68.18
8H	60.03	70.08	70.61
8H	63.10	73.15	73.21
8H	63.68	73.73	73.57
8H	65.02	75.07	74.57
8H	65.57	75.62	74.70
8H	67.30	77.35	76.43
9H	67.10	70.85	70.85
9H	*67.60*	*71.35*	*71.35*
9H	*73.45*	*77.20*	*77.20*
9H	74.16	77.91	77.87
9H	74.38	78.13	78.07
9H	74.64	78.39	78.32
9H	74.96	78.71	78.59
9H	75.11	78.86	78.77
9H	75.29	79.04	78.96
9H	76.12	79.87	79.78
9H	76.56	80.31	80.19
9H	77.12	80.87	80.74
10H	76.60	82.13	82.13
10H	*77.48*	*83.01*	*83.01*
10H	*83.52*	*89.05*	*89.05*
10H	86.69	92.22	92.22
11H	86.10	91.99	92.25
11H	88.15	94.04	94.30
11H	90.87	96.76	96.94
11H	92.63	98.52	98.81
11H	93.87	99.76	100.05
12H	91.10	100.37	99.64
12H	92.06	101.33	100.60
12H	92.88	102.15	101.62
12H	93.69	102.96	102.58
12H	94.88	104.15	103.86
12H	95.66	104.93	104.88
12H	96.27	105.54	105.54
12H	100.19	109.46	109.82
12H	101.06	110.33	110.69
13H	100.60	111.08	111.08
13H	*103.88*	*114.36*	*114.36*

Table T7 (continued).

Core	Depth (mbsf [m CSF-A])	Depth (rmcd [m revised CCSF-A])	Depth (rmcd [adjusted m revised CCSF-A])
13H	*108.38*	*118.86*	*118.86*
13H	109.65	120.13	120.28
13H	110.81	121.29	121.44
14X	110.10	121.58	121.95
14X	110.70	122.18	122.55
14X	*112.72*	*124.20*	*124.20*
14X	*118.98*	*130.46*	*130.46*
14X	119.83	131.31	131.31
15X	116.10	132.15	132.15
15X	*116.86*	*132.91*	*132.91*
15X	*125.82*	*141.87*	*141.87*
16X	124.60	142.68	142.68
16X	125.39	143.47	143.47
17X	134.30	152.38	152.38
17X	135.08	153.16	153.16
18X	143.90	159.80	159.80
18X	146.26	162.16	162.16
320-U1332C-			
1H	0.00	0.04	0.04
1H	*2.56*	*2.60*	*2.60*
1H	*6.61*	*6.65*	*6.65*
1H	7.49	7.53	7.53
2H	7.50	7.99	7.99
2H	7.50	7.99	7.85
2H	9.08	9.57	9.43
2H	9.99	10.48	10.48
2H	*10.97*	*11.46*	*11.46*
2H	*16.46*	*16.95*	*16.95*
2H	17.48	17.97	17.97
3H	17.00	17.25	17.25
3H	*20.18*	*20.43*	*20.43*
3H	*26.05*	*26.30*	*26.30*
3H	26.96	27.21	27.21
4H	26.50	28.85	29.00
4H	26.70	29.05	29.20
4H	28.17	30.52	30.64
4H	*29.30*	*31.65*	*31.65*
4H	*32.95*	*35.30*	*35.30*
4H	33.89	36.24	36.38
4H	34.78	37.13	37.30
4H	36.00	38.35	38.65
4H	36.55	38.90	39.20
5H	36.00	40.15	39.95
5H	36.10	40.25	40.05
5H	*36.70*	*40.85*	*40.85*
5H	*44.53*	*48.68*	*48.68*
5H	45.79	49.94	49.94
6H	45.50	48.85	48.91
6H	48.34	51.69	51.75
6H	49.37	52.72	52.72
6H	49.83	53.18	53.15
6H	52.15	55.50	55.45
6H	53.07	56.42	56.38
7H	49.50	56.30	56.30
7H	*49.90*	*56.70*	*56.70*
7H	*58.77*	*65.57*	*65.57*
7H	59.46	66.26	66.26
8H	59.00	66.51	66.51
8H	*60.62*	*68.13*	*68.13*
8H	*63.84*	*71.35*	*71.35*
8H	67.01	74.52	74.17
8H	68.22	75.73	75.20
9H	66.00	66.95	66.95
9H	68.59	69.54	69.54
9H	68.88	69.83	70.05
9H	69.72	70.67	70.90
9H	72.65	73.60	73.60
9H	74.74	75.69	75.69
9H	75.96	76.91	76.91
10H	75.50	76.05	76.05
10H	85.58	86.13	86.13
11H	85.00	88.43	88.55
11H	86.42	89.85	89.97
11H	*88.35*	*91.78*	*91.78*
11H	*90.90*	*94.33*	*94.33*
11H	94.10	97.53	97.53
12H	94.50	99.34	99.34
12H	*95.72*	*100.56*	*100.56*
12H	*101.81*	*106.65*	*106.65*
12H	103.25	108.09	108.09
13H	104.00	109.60	109.60
13H	*106.74*	*112.34*	*112.34*
13H	*108.76*	*114.36*	*114.36*
13H	114.13	119.73	119.73
14X	113.50	121.46	122.00
14X	114.81	122.77	122.87
14X	116.52	124.48	124.50
14X	117.61	125.57	125.64
14X	118.91	126.87	127.38
14X	119.88	127.84	128.35
15X	118.00	128.76	128.90
15X	118.35	129.11	129.26
15X	119.20	129.96	130.10
15X	*119.70*	*130.46*	*130.46*
15X	*122.15*	*132.91*	*132.91*
15X	126.39	137.15	137.54
15X	127.43	138.19	138.58
16X	127.60	139.42	139.42
16X	134.67	146.49	146.49
17X	137.20	149.02	149.02
17X	139.94	151.76	151.76
18X	146.90	160.72	160.72
18X	147.30	161.12	161.12

Italics = splice tie points.

Table T8. Revised shipboard composite and corrected composite depths, Site U1333.

Core	Depth (mbsf [m CSF-A])	Offset (m)	Top depth (rmcd [m revised CCSF-A])
320-U1333A-			
1H	0.00	4.66	4.66
2H	9.50	3.68	13.18
3H	19.00	6.84	25.84
4H	28.50	6.57	35.07
5H	38.00	**9.80**	**47.80**
6H	47.50	*11.75*	*59.25*
7H	57.00	*13.30*	*70.30*
8H	66.50	*15.38*	*81.88*
9H	76.00	*17.73*	*93.73*
10H	85.50	*19.36*	*104.86*
11X	95.00	**20.72**	**115.72**
12X	100.70	**21.45**	**122.15**
13X	110.30	**23.35**	**133.65**
14X	120.00	*23.61*	*143.61*
15X	129.60	**26.70**	**156.30**
16X	139.20	**28.00**	**167.20**
17X	148.80	**30.20**	**179.00**
18X	158.40	**26.90**	**185.30**
19X	168.00	**25.75**	**193.75**
20X	177.60	*25.75*	*203.35*
21X	181.60	*25.75*	*207.35*
22X	182.60	*25.75*	*208.35*
320-U1333B-			
1H	0.00	0.00	0.00
2H	7.70	0.01	7.71
3H	17.20	2.07	19.27
4H	26.70	3.18	29.88
5H	36.20	3.98	40.18
6H	45.70	*7.84*	*53.54*
7H	55.20	*10.03*	*65.23*
8H	64.70	*10.77*	*75.47*
9H	74.20	**12.03**	**86.23**
10H	83.70	*15.21*	*98.91*
11H	93.20	*17.33*	*110.53*
12H	102.70	**18.50**	**121.20**
13H	112.20	*19.55*	*131.75*
14H	121.70	*21.45*	*143.15*
15H	131.20	**26.00**	**157.20**
16H	140.70	*26.00*	*166.70*
17H	150.20	**28.90**	**179.10**
18H	159.70	*28.90*	*188.60*
19X	162.70	**25.65**	**188.35**
20X	172.30	**26.00**	**198.30**
320-U1333C-			
1H	0.00	0.00	0.00
2H	1.60	2.30	3.90
3H	11.10	2.66	13.76
4H	20.60	3.28	23.88
5H	30.10	6.55	36.65
6H	39.60	**8.60**	**48.20**
7H	49.10	*11.13*	*60.23*
8H	58.60	*12.90*	*71.50*
9H	68.10	**15.34**	**83.44**
10H	77.60	*16.81*	*94.41*
11H	87.10	*16.60*	*103.70*
12H	93.10	*19.13*	*112.23*
13H	98.10	*19.00*	*117.10*
14H	107.60	**21.90**	**129.50**
15H	117.10	*22.20*	*139.30*
16H	126.60	**24.36**	**150.96**
17H	131.10	**25.70**	**156.80**
18H	140.60	**26.50**	**167.10**
19H	150.10	*26.50*	*176.60*
20H	154.10	**27.95**	**182.05**
21H	163.20	**28.10**	**191.30**
22X	163.20	*28.10*	*191.30*
23X	172.80	*28.10*	*200.90*
24X	176.00	*28.10*	*204.10*

Bold = changes to ship CCSF, italics = ship splice, but CCSF shifted according to new offsets higher up in the section.

Table T9. Revised splice tie points, Site U1333.

Hole, core, section, interval (cm)	Depth (mbsf [m CSF-A])	Depth (rmcd [m revised CCSF-A])		Hole, core, section, interval (cm)	Depth (mbsf [m CSF-A])	Depth (rmcd [m revised CCSF-A])
320-				320-		
U1333B-1H-5, 22	6.22	6.22	Tie to	U1333A-1H-2, 6	1.56	6.22
U1333A-1H-5, 76	6.76	11.42	Tie to	U1333B-2H-3, 71	11.41	11.42
U1333B-2H-6, 31	15.51	15.51	Tie to	U1333C-3H-2, 26	12.86	15.51
U1333C-3H-6, 63	19.23	21.88	Tie to	U1333B-3H-2, 111	19.81	21.88
U1333B-3H-6, 93	25.63	27.70	Tie to	U1333C-4H-3, 82	24.42	27.70
U1333C-4H-5, 83	27.43	30.70	Tie to	U1333B-4H-1, 82	27.52	30.70
U1333B-4H-6, 35	34.55	37.73	Tie to	U1333C-5H-1, 108	31.18	37.73
U1333C-5H-5, 98	37.08	43.63	Tie to	U1333B-5H-3, 45	39.65	43.63
U1333B-5H-7, 30	**45.00**	**48.98**	Tie to	**U1333C-6H-1, 77***	**40.37**	**48.98**
U1333C-6H-4, 131	*45.41*	*54.01*	Tie to	**U1333B-6H-1, 46**	**46.16**	**54.01**
U1333B-6H-6, 130	*54.50*	*62.35*	Tie to	*U1333A-6H-3, 9*	*50.59*	*62.35*
U1333A-6H-5, 106	*54.56*	*66.32*	Tie to	*U1333B-7H-1, 109*	*56.29*	*66.32*
U1333B-7H-6, 96	*63.66*	*73.69*	Tie to	*U1333C-8H-2, 69*	*60.79*	*73.69*
U1333C-8H-7, 23	*67.83*	*80.73*	Tie to	*U1333B-8H-4, 76*	*69.96*	*80.73*
U1333B-8H-6, 81	*73.01*	*83.78*	Tie to	*U1333A-8H-2, 59*	*68.39*	*83.78*
U1333A-8H-4, 46	*71.26*	*86.65*	Tie to	**U1333C-9H-3, 21**	**71.31**	**86.65**
U1333C-9H-4, 21	*72.81*	*88.15*	Tie to	*U1333B-9H-2, 41*	*76.11*	*88.15*
U1333B-9H-6, 95	**82.65**	**94.68**	Tie to	*U1333A-9H-1, 95*	*76.95*	*94.68*
U1333A-9H-6, 113	*84.64*	*102.37*	Tie to	*U1333B-10H-3, 46*	*87.16*	*102.37*
U1333B-10H-6, 137	*92.57*	*107.78*	Tie to	*U1333A-10H-2, 142*	*88.42*	*107.78*
U1333A-10H-6, 150	*94.50*	*113.86*	Tie to	*U1333B-11H-3, 33*	*96.53*	*113.86*
U1333B-11H-5, 105	*100.25*	*117.58*	Tie to	*U1333A-11X-2, 36*	*96.86*	*117.58*
U1333A-11X-4, 16	*99.66*	*120.38*	Tie to	*U1333C-13H-3, 28*	*101.38*	*120.38*
U1333C-13H-7, 28	*107.38*	*126.38*	Tie to	**U1333B-12H-4, 68**	**107.88**	**126.38**
U1333B-12H-6, 143	*111.63*	*130.13*	Tie to	*U1333C-14H-1, 63*	*108.23*	*130.13*
U1333C-14H-3, 33	*110.93*	*132.83*	Tie to	*U1333B-13H-1, 108*	*113.28*	*132.83*
U1333B-13H-5, 145	*119.65*	*139.20*	Tie to	*U1333A-13X-4, 105*	*115.85*	*139.20*
U1333A-13X-6, 89	*118.69*	*142.04*	Tie to	*U1333C-15H-2, 124*	*119.84*	*142.04*
U1333C-15H-5, 125	*124.35*	*146.55*	Tie to	*U1333B-14H-3, 40*	*125.10*	*146.55*
U1333B-14H-6, 110	**130.31**	**151.76**	Tie to	**U1333C-16H-1, 80**	**127.40**	**151.76**
U1333C-16H-4, 98	**132.08**	**156.44**	Append to	**U1333C-17H-1, 0**	**131.10**	**156.80**
U1333C-17H-7, 72	**140.82**	**166.52**	Append to	**U1333C-18H-1, 0**	**140.60**	**167.10**
U1333C-18H-CC, 30	**150.81**	**177.31**	Append to	**U1333C-19H-1, 88**	**150.98**	**177.48**
U1333C-19H-3, 70	**153.80**	**180.30**	Tie to	**U1333B-17H-1, 120**	**151.40**	**180.30**
U1333B-17H-3, 140	**154.60**	**183.50**	Tie to	**U1333C-20H-1, 145**	**155.55**	**183.50**
U1333C-20H-5, 95	**161.50**	**189.00**	Tie to	**U1333A-18X-3, 136***	**162.10**	**189.00**
U1333A-18X-4, 74	**162.98**	**189.88**	Tie to	**U1333B-19X-2, 3**	**164.23**	**189.88**
U1333B-19X-5, 17	**168.87**	**194.52**	Tie to	**U1333A-19X-1, 77**	**168.77**	**194.52**
U1333A-19X-CC, 20	**174.68**	**200.43**		End of splice		

* = uncertain tie point. Bold = new splice tie point, italics = old splice tie points with new revised composite depth.

Table T10. Mapping pairs for adjusting cores to the rmcd (m revised CCSF-A) splice, Site U1333. (Continued on next two pages.)

Core	Depth (mbsf [m CSF-A])	Depth (rmcd [m revised CCSF-A])	Depth (rmcd [adjusted m revised CCSF-A])
320-U1333A-			
1H	0.01	4.67	3.90
1H	0.50	5.16	4.97
1H	1.01	5.67	5.67
1H	*1.56*	*6.22*	*6.22*
1H	*6.76*	*11.42*	*11.42*
1H	7.59	12.25	12.25
1H	8.18	12.84	12.88
1H	10.05	14.71	14.75
2H	9.50	13.18	13.13
2H	9.83	13.51	13.46
2H	10.08	13.76	13.66
2H	10.70	14.38	14.36
2H	11.11	14.79	14.74
2H	11.38	15.06	15.06
2H	12.04	15.72	15.69
2H	12.29	15.97	16.00
2H	12.86	16.54	16.50
2H	13.29	16.97	16.91
2H	14.28	17.96	17.86
2H	15.26	18.94	18.78
2H	16.22	19.90	19.70
2H	19.62	23.30	23.10
3H	19.00	25.84	25.84
3H	19.95	26.79	26.79
3H	20.10	26.94	26.88
3H	21.56	28.40	28.25
3H	23.04	29.88	29.64
3H	24.23	31.07	30.76
3H	25.01	31.85	31.52
3H	26.16	33.00	32.63
3H	27.28	34.12	33.69
3H	28.50	35.34	35.01
3H	28.92	35.76	35.43
4H	28.50	35.07	36.46
4H	31.74	38.31	39.70
4H	32.39	38.96	40.13
4H	33.13	39.70	40.63
4H	34.33	40.90	41.50
4H	35.26	41.83	42.12
4H	36.07	42.64	42.72
4H	36.90	43.47	43.32
4H	37.76	44.33	44.33
4H	38.65	45.22	45.22
5H	38.00	47.80	47.83
5H	39.34	49.14	49.17
5H	40.58	50.38	50.28
5H	42.66	52.46	52.28
5H	45.05	54.85	54.59
5H	45.94	55.74	55.44
5H	47.12	56.92	56.73
5H	47.70	57.50	57.31
6H	47.50	59.25	59.25
6H	*50.60*	*62.35*	*62.35*
6H	*54.57*	*66.32*	*66.32*
6H	57.32	69.07	69.07
7H	57.00	70.30	69.93
7H	58.65	71.95	71.58
7H	61.35	74.65	74.26
7H	63.01	76.31	76.05
7H	63.94	77.24	77.11
7H	64.50	77.80	77.51
7H	65.93	79.23	79.39
7H	66.60	79.90	80.06
8H	66.50	81.88	81.88
8H	*68.41*	*83.79*	*83.79*
8H	*71.27*	*86.65*	*86.65*
8H	71.82	87.20	87.20
8H	73.33	88.71	88.65
8H	73.74	89.12	89.10
8H	75.11	90.49	90.38
8H	75.54	90.92	90.76
8H	76.19	91.57	91.41
9H	76.00	93.73	93.73
9H	*76.96*	*94.69*	*94.69*
9H	*84.64*	*102.37*	*102.37*
9H	85.92	103.65	103.65
10H	85.50	104.86	104.91
10H	86.02	105.38	105.43
10H	86.22	105.58	105.57
10H	86.42	105.78	105.77
10H	86.82	106.18	106.15
10H	87.38	106.74	106.79
10H	87.92	107.28	107.37
10H	*88.42*	*107.78*	*107.78*
10H	*94.50*	*113.86*	*113.86*
10H	95.38	114.74	114.74
11X	95.00	115.72	115.72
11X	*96.86*	*117.58*	*117.58*
11X	*99.66*	*120.38*	*120.38*
11X	101.22	121.94	121.94
12X	100.70	122.15	122.04
12X	100.80	122.25	122.14
12X	101.70	123.15	123.15
12X	103.19	124.64	124.91
12X	103.66	125.11	125.34
12X	104.48	125.93	126.25
12X	105.39	126.84	127.26
12X	106.12	127.57	128.20
12X	106.70	128.15	129.03
12X	107.80	129.25	130.00
12X	107.99	129.44	130.19
13X	110.30	133.65	132.94
13X	111.82	135.17	134.46
13X	112.30	135.65	135.26
13X	112.80	136.15	135.83
13X	114.25	137.60	137.32
13X	115.23	138.58	138.58
13X	*115.85*	*139.20*	*139.20*
13X	*118.69*	*142.04*	*142.04*
13X	119.10	142.45	142.61
13X	119.61	142.96	143.20
13X	119.98	143.33	143.57
14X	120.00	143.61	143.89
14X	120.05	143.66	143.94
14X	121.00	144.61	144.72
14X	121.32	144.93	145.02
14X	121.74	145.35	145.43
14X	122.39	146.00	145.96
14X	122.97	146.58	146.57
14X	123.81	147.42	147.20
14X	124.59	148.20	147.86
14X	124.87	148.48	148.20
14X	125.17	148.78	148.55
14X	126.01	149.62	149.40
14X	126.28	149.89	149.67
14X	126.78	150.39	150.22
14X	127.53	151.14	151.14
14X	128.21	151.82	151.91
14X	128.96	152.57	152.91
14X	129.05	152.66	153.05
14X	129.85	153.46	153.85
15X	129.60	156.30	156.13
15X	130.00	156.70	156.87
15X	130.75	157.45	157.50
15X	131.79	158.49	158.53
15X	131.56	158.26	158.35
15X	132.49	159.19	159.28
15X	133.03	159.73	159.88
15X	133.46	160.16	160.34
15X	134.57	161.27	161.36
15X	135.60	162.30	162.49
15X	136.29	162.99	163.37
15X	136.99	163.69	164.27
15X	137.31	164.01	164.59
15X	138.47	165.17	166.15
15X	139.19	165.89	166.95
16X	139.20	167.20	166.57
16X	141.82	169.82	169.19
16X	142.23	170.23	170.00
16X	144.37	172.37	171.96
16X	144.99	172.99	173.29
16X	145.78	173.78	173.92
16X	146.90	174.90	174.90
16X	147.83	175.83	175.83
16X	148.22	176.22	176.73
16X	149.14	177.14	177.65
17X	148.80	179.00	178.95
17X	148.93	179.13	179.08
17X	149.38	179.58	179.58
17X	150.30	180.50	180.50
17X	151.22	181.42	181.29
17X	153.85	184.05	183.35
17X	154.22	184.42	183.72
17X	155.48	185.68	184.42
17X	155.91	186.11	184.80
17X	157.70	187.90	186.02
17X	158.72	188.92	187.04
18X	158.40	185.30	185.30
18X	163.91	190.81	190.81
19X	168.00	193.75	193.75
19X	174.75	200.50	200.50
20X	177.60	203.35	203.35
20X	180.13	205.88	205.88
21X	181.60	207.35	207.35
21X	181.66	207.41	207.41
22X	182.60	208.35	208.35
22X	182.66	208.41	208.41
320-U1333B-			
1H	0.01	0.01	0.01
1H	*1.58*	*6.22*	*6.22*
1H	*7.73*	*7.73*	*7.73*
2H	7.70	7.71	7.69
2H	9.24	9.25	9.23
2H	9.66	9.67	9.78
2H	10.29	10.30	10.43
2H	10.98	10.99	11.01
2H	*11.41*	*11.42*	*11.42*
2H	*15.50*	*15.51*	*15.51*
2H	17.65	17.66	17.66
3H	17.20	19.27	19.15
3H	18.30	20.37	20.25
3H	18.88	20.95	20.85
3H	*19.81*	*21.88*	*21.88*
3H	*25.63*	*27.70*	*27.70*

Table T10 (continued). (Continued on next page.)

Core	Depth (mbsf [m CSF-A])	Depth (rmcd [m revised CCSF-A])	Depth (rmcd [adjusted m revised CCSF-A])
3H	26.07	28.14	28.10
3H	27.23	29.30	*29.25*
4H	26.70	29.88	*29.77*
4H	26.98	30.16	30.05
4H	27.20	30.38	30.30
4H	27.38	30.56	30.58
4H	*27.52*	*30.70*	*30.70*
4H	*34.55*	*37.73*	*37.73*
4H	35.31	38.49	38.45
4H	35.74	38.92	38.82
4H	36.14	39.32	39.22
4H	36.66	39.84	39.74
5H	36.20	40.18	39.38
5H	36.96	40.94	40.14
5H	37.28	41.26	40.63
5H	37.86	41.84	41.50
5H	38.19	42.17	41.98
5H	39.43	43.41	43.32
5H	*39.65*	*43.63*	*43.63*
5H	*45.00*	*48.98*	*48.98*
5H	45.90	49.88	49.88
6H	45.70	53.54	53.50
6H	45.90	53.74	53.60
6H	*46.10*	*53.94*	*53.94*
6H	*54.51*	*62.35*	*62.35*
6H	54.80	62.64	62.86
6H	55.60	63.44	63.66
7H	55.20	65.23	65.23
7H	*56.29*	*66.32*	*66.32*
7H	*63.66*	*73.69*	*73.69*
7H	64.25	74.28	74.14
7H	65.16	75.19	75.05
8H	64.70	75.47	75.32
8H	65.27	76.04	75.90
8H	66.38	77.15	77.11
8H	66.81	77.58	77.51
8H	69.45	80.22	80.22
8H	*69.96*	*80.73*	*80.73*
8H	*73.01*	*83.78*	*83.78*
8H	73.89	84.66	84.66
8H	74.23	85.00	85.15
8H	74.55	85.32	85.32
9H	74.20	86.13	86.02
9H	*76.12*	*88.15*	*88.15*
9H	*82.65*	*94.68*	*94.68*
9H	83.16	95.19	95.19
10H	83.70	98.91	98.53
10H	84.86	100.07	99.69
10H	*87.16*	*102.37*	*102.37*
10H	*92.57*	*107.78*	*107.78*
10H	93.46	108.67	108.67
11H	93.20	110.53	110.53
11H	*96.53*	*113.86*	*113.86*
11H	*100.25*	*117.58*	*117.58*
11H	101.82	119.15	119.15
11H	103.31	120.64	120.20
12H	102.70	121.20	121.10
12H	103.63	122.13	122.13
12H	*107.88*	*126.38*	*126.38*
12H	*111.63*	*130.13*	*130.13*
12H	112.34	130.84	130.84
13H	112.20	131.75	131.75
13H	*112.83*	*132.38*	*132.38*
13H	*119.65*	*139.20*	*139.20*
13H	120.31	139.86	139.81
13H	120.84	140.39	140.21
13H	121.51	141.06	140.69
13H	122.17	141.72	141.35
14H	121.70	143.15	143.05
14H	122.50	143.95	143.85
14H	123.05	144.50	144.50
14H	*125.10*	*146.55*	*146.55*
14H	*130.31*	*151.76*	*151.76*
14H	131.46	152.91	152.91
15H	131.20	157.20	156.53
15H	131.90	157.90	157.23
15H	132.40	158.40	157.91
15H	132.84	158.84	158.53
15H	134.00	160.00	159.88
15H	134.41	160.41	160.33
15H	134.86	160.86	160.86
15H	136.13	162.13	162.49
15H	136.73	162.73	163.37
15H	137.59	163.59	164.44
15H	139.02	165.02	166.33
15H	139.84	165.84	167.15
16H	140.70	166.70	167.47
16H	141.73	167.73	168.50
16H	142.23	168.23	169.14
16H	143.79	169.79	170.83
16H	144.99	170.99	171.99
16H	145.69	171.69	173.07
16H	146.54	172.54	173.92
16H	147.28	173.28	174.57
16H	147.96	173.96	175.20
16H	148.73	174.73	175.86
16H	149.27	175.27	176.46
16H	149.53	175.53	176.73
16H	150.05	176.05	177.25
17H	150.20	179.10	179.10
17H	150.70	179.60	179.60
17H	151.13	180.03	179.90
17H	*151.40*	*180.30*	*180.30*
17H	*154.60*	*183.50*	*183.50*
17H	155.16	184.06	183.92
17H	155.70	184.60	184.42
17H	156.06	184.96	184.84
17H	156.33	185.23	185.12
17H	157.16	186.06	186.06
17H	158.00	186.90	186.80
17H	158.56	187.46	187.36
18H	159.70	188.60	188.60
18H	161.30	190.20	190.20
18H	162.35	191.25	191.05
18H	162.99	191.89	191.69
19X	162.70	188.35	188.35
19X	*164.23*	*189.88*	*189.88*
19X	*168.87*	*194.52*	*194.52*
19X	169.87	195.52	195.52
20X	172.30	198.30	198.30
20X	178.57	204.57	204.57
320-U1333C-			
1H	0.01	0.01	0.01
1H	1.65	1.65	1.65
2H	1.60	3.90	3.40
2H	2.47	4.77	4.27
2H	5.64	7.94	7.94
2H	7.95	10.25	10.42
2H	8.53	10.83	11.05
2H	9.33	11.63	11.76
2H	10.40	12.70	12.88
2H	11.63	13.93	14.11
3H	11.10	13.76	13.87
3H	12.07	14.73	14.73
3H	*12.85*	*15.51*	*15.51*
3H	*19.22*	*21.88*	*21.88*
3H	19.97	22.63	22.71
3H	20.38	23.04	23.32
3H	21.10	23.76	24.04
4H	20.60	23.88	23.89
4H	22.51	25.79	25.89
4H	23.52	26.80	26.88
4H	24.21	27.49	27.51
4H	*24.42*	*27.70*	*27.70*
4H	*27.42*	*30.70*	*30.70*
4H	27.68	30.96	31.04
4H	28.16	31.44	31.49
4H	28.84	32.12	32.23
4H	29.24	32.52	32.65
4H	30.72	34.00	34.13
5H	30.10	36.65	36.65
5H	*31.18*	*37.73*	*37.73*
5H	*37.08*	*43.63*	*43.63*
5H	37.65	44.20	44.26
5H	38.56	45.11	45.22
5H	39.03	45.58	45.77
5H	39.41	45.96	46.11
5H	39.89	46.44	46.59
6H	39.60	48.20	48.20
6H	*40.38*	*48.98*	*48.98*
6H	*45.41*	*54.01*	*54.01*
6H	45.97	54.57	54.60
6H	46.62	55.22	55.41
6H	47.71	56.31	56.68
6H	48.73	57.33	57.59
6H	49.41	58.01	58.46
6H	49.74	58.34	58.79
7H	49.10	60.23	60.23
7H	52.97	64.10	64.10
7H	53.57	64.70	64.93
7H	55.15	66.28	67.14
7H	55.60	66.73	67.87
7H	57.32	68.45	70.50
8H	58.60	71.50	71.50
8H	*60.79*	*73.69*	*73.69*
8H	*67.83*	*80.73*	*80.73*
8H	68.70	81.60	81.60
9H	68.10	83.34	83.02
9H	69.02	84.36	84.04
9H	69.80	85.14	84.90
9H	70.53	85.87	85.77
9H	*71.31*	*86.65*	*86.65*
9H	*72.81*	*88.15*	*88.15*
9H	73.71	89.05	89.23
9H	75.26	90.60	90.90
9H	76.68	92.02	92.24
9H	77.56	92.90	93.15
9H	77.82	93.06	93.31
10H	77.60	94.41	94.04
10H	79.69	96.50	96.13
10H	80.72	97.53	97.10
10H	82.07	98.88	98.58
10H	82.89	99.70	99.46
10H	83.63	100.44	100.25
10H	85.56	102.37	102.37
10H	85.89	102.70	102.75
10H	86.17	102.98	103.00
10H	86.34	103.15	103.15
10H	86.78	103.59	103.60
10H	87.70	104.51	105.00

Table T10 (continued).

Core	Depth (mbsf [m CSF-A])	Depth (rmcd [m revised CCSF-A])	Depth (rmcd [adjusted m revised CCSF-A])
11H	87.10	103.70	103.51
11H	88.55	105.15	104.96
11H	89.51	106.11	105.80
11H	90.12	106.72	106.70
11H	90.82	107.42	107.42
11H	91.52	108.12	108.12
11H	93.64	110.24	109.88
11H	94.52	111.12	111.12
11H	96.25	112.85	112.85
12H	93.10	112.23	112.23
12H	97.16	116.29	116.28
12H	99.75	118.88	118.88
13H	98.10	117.10	117.95
13H	100.29	119.29	119.55
13H	*101.38*	*120.38*	*120.38*
13H	*107.38*	*126.38*	*126.38*
13H	108.06	127.06	126.80
14H	107.60	129.50	129.50
14H	*108.23*	*130.13*	*130.13*
14H	*110.93*	*132.83*	*132.83*
14H	115.00	136.90	136.90
14H	115.43	137.33	137.14
14H	116.96	138.86	138.58
14H	117.63	139.53	139.25
15H	117.10	139.30	139.30
15H	*119.84*	*142.04*	*142.04*
15H	*124.35*	*146.55*	*146.55*
15H	125.72	147.92	147.87
15H	126.06	148.26	148.17
15H	126.51	148.71	148.57
15H	126.84	149.04	149.12
15H	127.16	149.36	149.44
16H	126.60	150.96	150.96
16H	*127.40*	*151.76*	*151.76*
16H	132.13	156.49	156.49
17H	131.10	156.80	156.80
17H	141.11	166.81	166.81
18H	140.60	167.10	167.10
18H	150.81	177.31	177.31
19H	150.10	176.60	176.60
19H	*150.98*	*177.48*	*177.48*
19H	*153.80*	*180.30*	*180.30*
19H	155.14	181.64	181.80
20H	154.10	182.05	182.05
20H	*155.55*	*183.50*	*183.50*
20H	*161.05*	*189.00*	*189.00*
20H	163.34	191.29	191.29
21H	163.20	191.30	191.30
21H	163.74	191.84	191.84
22X	163.20	191.30	191.30
22X	163.59	191.69	191.69
23X	172.80	200.90	200.90
23X	173.01	201.11	201.11
24X	176.00	204.10	204.10
24X	176.27	204.37	204.37

Italics = splice tie points.

Table T11. Revised shipboard composite and corrected composite depths, Site U1334.

Core	Depth (mbsf [m CSF-A])	Offset (m)	Top depth (rmcd [m revised CCSF-A])
320-U1334A-			
1H	0.00	0.00	0.00
2H	8.20	0.87	9.07
3H	17.70	1.97	19.67
4H	27.20	3.48	30.68
5H	36.70	4.77	41.47
6H	46.20	6.93	53.13
7H	55.70	7.42	63.12
8H	65.20	9.06	74.26
9H	74.70	11.22	85.92
10H	84.20	11.31	95.51
11H	93.70	12.92	106.62
12H	103.20	14.15	117.35
13H	112.70	15.44	128.14
14H	122.20	16.93	139.13
15H	131.70	18.86	150.56
16H	141.20	20.56	161.76
17H	150.70	23.22	173.92
18H	160.20	24.10	184.30
19H	169.70	*26.42*	196.12
20H	179.20	**40.46**	**219.66**
21H	188.70	**41.16**	**229.86**
22H	198.20	**42.46**	**240.66**
23X	206.90	**44.72**	**251.62**
24X	214.50	**47.70**	**262.20**
25X	224.10	**49.43**	**273.53**
26X	233.60	**49.64**	**283.24**
27X	243.20	**51.10**	**294.30**
28X	252.80	**53.30**	**306.10**
29X	262.40	**54.07**	**316.47**
30X	272.10	**55.27**	**327.37**
31X	281.80	*55.78*	*337.58*
32X	285.00	*55.78*	*340.78*
320-U1334B-			
1H	3.70	4.00	7.70
2H	13.20	4.69	17.89
3H	22.70	4.64	27.34
4H	32.20	6.27	38.47
5H	41.70	5.99	47.69
6H	49.20	7.31	56.51
7H	58.70	9.29	67.99
8H	68.20	12.14	80.34
9H	77.70	14.35	92.05
10H	87.20	15.44	102.64
11H	96.70	17.09	113.79
12H	106.20	17.28	123.48
13H	115.70	18.99	134.69
14H	125.20	21.74	146.94
15H	134.70	22.49	157.19
16H	144.20	*23.79*	*167.99*
17H	153.70	25.14	178.84
18H	163.20	27.10	190.30
19H	172.70	28.25	200.95
20H	182.20	**30.46**	**212.66**
21H	191.70	**32.51**	**224.21**
22H	201.20	**33.91**	**235.11**
23X	210.70	**34.91**	**245.61**
24X	219.00	**49.63**	**268.63**
25X	228.60	**50.72**	**279.32**
26X	238.20	*52.32*	*290.52*
27X	247.80	**54.13**	**301.93**
28X	257.40	*55.21*	*312.61*
29X	267.00	**57.43**	**324.43**
30X	276.60	*58.04*	*334.64*
31X	283.90	*58.04*	*341.94*
320-U1334C-			
1H	0.00	3.65	3.65
2H	9.50	4.33	13.83
3H	19.00	6.65	25.65
4H	28.50	10.04	38.54
5H	38.00	10.11	48.11
6H	47.50	12.06	59.56
7H	57.00	12.06	69.06
8H	66.50	13.96	80.46
9H	76.00	16.30	92.30
10H	85.50	17.98	103.48
11H	95.00	19.69	114.69
12H	104.50	22.75	127.25
13H	114.00	25.13	139.13
14H	123.50	27.06	150.56
15H	133.00	28.23	161.23
16H	142.50	29.69	172.19
17H	152.00	30.35	182.35
18H	161.50	31.44	192.94
19H	171.00	32.52	203.52
20H	180.50	**33.33**	**213.83**
21H	190.00	**34.06**	**224.06**
22H	199.50	**36.86**	**236.36**
23X	209.00	**41.35**	**250.35**
24X	214.00	**44.85**	**258.85**
25X	223.60	**46.33**	**269.93**
26X	233.20	**47.10**	**280.30**
27X	239.20	*48.01*	*287.21*
28X	248.80	**49.53**	**298.33**
29X	258.40	**58.28**	**316.68**
30X	268.00	**58.81**	**326.81**
31X	277.70	*61.02*	*338.72*

Bold = changes to ship CCSF, italics = ship splice, but CCSF shifted according to new offsets higher up in the section.

Table T12. Revised splice tie points, Site U1334.

Hole, core, section, interval (cm)	Depth (mbsf [m CSF-A])	Depth (rmcd [m revised CCSF-A])		Hole, core, section, interval (cm)	Depth (mbsf [m CSF-A])	Depth (rmcd [m revised CCSF-A])
320-				320-		
U1334A-1H-5, 80	6.80	6.80	Tie to	U1334C-1H-3, 15	3.15	6.80
U1334C-1H-5, 69	6.69	10.35	Tie to	U1334A-2H-1, 128	9.48	10.35
U1334A-2H-6, 132	17.02	17.89	Tie to	U1334C-2H-4, 10	13.56	17.89
U1334C-2H-5, 108	16.04	20.37	Tie to	U1334A-3H-1, 70	18.40	20.37
U1334A-3H-6, 145	26.65	28.62	Tie to	U1334B-3H-1, 128	23.98	28.62
U1334B-3H-5, 114	29.84	34.48	Tie to	U1334A-4H-3, 80	31.00	34.48
U1334A-4H-6, 139	36.09	39.57	Tie to	U1334B-4H-1, 110	33.30	39.57
U1334B-4H-6, 145	41.15	47.42	Tie to	U1334A-5H-4, 144	42.64	47.42
U1334A-5H-6, 30	44.50	49.27	Tie to	U1334C-5H-1, 116	39.16	49.27
U1334C-5H-7, 5	47.05	57.16	Tie to	U1334A-6H-3, 103	50.23	57.16
U1334A-6H-6, 23	53.93	60.86	Tie to	U1334C-6H-1, 130	48.80	60.86
U1334C-6H-5, 149	54.99	67.05	Tie to	U1334A-7H-3, 93	59.63	67.05
U1334A-7H-6, 68	63.88	71.30	Tie to	U1334B-7H-3, 31	62.01	71.30
U1334B-7H-6, 102	67.22	76.51	Tie to	U1334A-8H-2, 76	67.46	76.51
U1334A-8H-6, 128	73.98	83.04	Tie to	U1334B-8H-2, 119	70.89	83.04
U1334B-8H-5, 75	74.95	87.10	Tie to	U1334A-9H-1, 118	75.88	87.10
U1334A-9H-6, 20	82.40	93.61	Tie to	U1334B-9H-2, 6	79.26	93.61
U1334B-9H-5, 74	84.44	98.80	Tie to	U1334A-10H-3, 29	87.49	98.80
U1334A-10H-6, 142	93.12	104.43	Tie to	U1334C-10H-1, 95	86.45	104.43
U1334C-10H-5, 37	91.87	109.84	Tie to	U1334A-11H-3, 22	96.92	109.84
U1334A-11H-6, 132	102.52	115.44	Tie to	U1334B-11H-2, 14	98.34	115.44
U1334B-11H-6, 100	105.20	122.30	Tie to	U1334A-12H-4, 45	108.15	122.30
U1334A-12H-6, 43	111.13	125.27	Tie to	U1334B-12H-2, 29	107.99	125.27
U1334B-12H-6, 39	114.09	131.37	Tie to	U1334C-12H-3, 113	108.63	131.37
U1334C-12H-7, 36	113.86	136.61	Tie to	U1334B-13H-2, 41	117.61	136.61
U1334B-13H-5, 5	121.75	140.75	Tie to	U1334C-13H-2, 12	115.62	140.75
U1334C-13H-6, 86	122.36	147.49	Tie to	U1334B-14H-1, 55	125.75	147.49
U1334B-14H-4, 101	130.71	152.45	Tie to	U1334C-14H-2, 39	125.39	152.45
U1334C-14H-6, 44	131.44	158.49	Tie to	U1334B-15H-1, 130	136.00	158.49
U1334B-15H-6, 129	143.49	165.99	Tie to	U1334C-15H-4, 26	137.76	165.99
U1334C-15H-6, 74	141.24	169.47	Tie to	U1334B-16H-1, 148	145.68	169.47
U1334B-16H-5, 75	150.95	174.74	Tie to	U1334C-16H-2, 105	145.05	174.74
U1334C-16H-6, 53	150.53	180.22	Tie to	U1334B-17H-1, 138	155.08	180.22
U1334B-17H-6, 67	161.87	187.01	Tie to	U1334A-18H-2, 122	162.92	187.01
U1334A-18H-5, 53	166.73	190.83	Tie to	U1334B-18H-1, 53	163.73	190.83
U1334B-18H-6, 126	171.96	199.06	Tie to	U1334A-19H-3, 2	172.64	199.06
U1334A-19H-6, 19	177.31	203.72	Tie to	U1334B-19H-2, 127	175.47	203.72
U1334B-19H-4, 12	177.32	205.57	Tie to	U1334C-19H-2, 55	173.05	205.57
U1334C-19H-7, 66	**180.66**	**213.18**	Tie to	**U1334B-20H-1, 52**	**182.72**	**213.18**
U1334B-20H-5, 110	**189.30**	**219.76**	Tie to	**U1334C-20H-4, 143**	**186.43**	**219.76**
U1334C-20H-6, 142	**189.42**	**222.75**	Tie to	**U1334A-20H-3, 9**	**182.29**	**222.75**
U1334A-20H-5, 99	**186.19**	**226.65**	Tie to	**U1334B-21H-2, 94**	**194.14**	**226.65**
U1334B-21H-6, 11	**199.31**	**231.82**	Tie to	**U1334A-21H-2, 46**	**190.66**	**231.82**
U1334A-21H-5, 65	**195.35**	**236.51**	Tie to	**U1334B-22H-1, 140**	**202.60**	**236.51**
U1334B-22H-7, 13	**210.33**	**244.24**	Tie to	**U1334C-22H-6, 38**	**207.38**	**244.24**
U1334C-22H-7, 44	**208.94**	**245.80**	Tie to	**U1334A-22H-4, 64**	**203.34**	**245.80**
U1334A-22H-5, 70	**204.90**	**247.36**	Tie to	**U1334B-23X-2, 25**	**212.45**	**247.36**
U1334B-23X-6, 139	**219.59**	**254.50**	Tie to	**U1334A-23X-2, 138**	**209.78**	**254.50**
U1334A-23X-6, 27	**214.67**	**259.39**	Tie to	**U1334C-24X-1, 54**	**214.54**	**259.39**
U1334C-24X-6, 143	**222.93**	**267.78**	Tie to	**U1334A-24X-4, 110**	**220.10**	**267.78**
U1334A-24X-6, 134	**223.34**	**271.02**	Tie to	**U1334C-25X-1, 109**	**224.69**	**271.02**
U1334C-25X-5, 21	*229.81*	*276.14*	Tie to	*U1334A-25X-2, 111*	*226.71*	*276.14*
U1334A-25X-6, 97	**232.57**	**282.00**	Tie to	**U1334C-26X-2, 20**	**234.90**	**282.00**
U1334C-26X-5, 23	*239.43*	*286.53*	Tie to	*U1334A-26X-3, 29*	*236.89*	*286.53*
U1334A-26X-6, 93	*242.03*	*291.67*	Tie to	*U1334B-26X-1, 115*	*239.35*	*291.67*
U1334B-26X-5, 86	**245.06**	**297.38**	Tie to	**U1334A-27X-3, 8**	**246.28**	**297.38**
U1334A-27X-6, 27	**249.97**	**301.07**	Tie to	**U1334C-28X-2, 124**	**251.54**	**301.07**
U1334C-28X-3, 145	**253.25**	**302.78**	Tie to	**U1334B-27X-1, 85**	**248.65**	**302.78**
U1334B-27X-4, 14	**252.44**	**306.57**	Tie to	**U1334A-28X-1, 47**	**253.27**	**306.57**
U1334A-28X-6, 110	*261.40*	*314.70*	Tie to	*U1334B-28X-2, 59*	*259.49*	*314.70*
U1334B-28X-4, 92	**262.82**	**318.03**	Tie to	**U1334C-29X-1, 135**	**259.75**	**318.03**
U1334C-29X-6, 121	*267.11*	*325.39*	Tie to	*U1334B-29X-1, 96*	*267.96*	*325.39*
U1334B-29X-6, 90	*275.40*	*332.83*	Tie to	*U1334C-30X-5, 2*	*274.02*	*332.83*
U1334C-30X-6, 144	*276.94*	*335.75*	Tie to	*U1334B-30X-1, 111*	*277.71*	*335.75*
U1334B-30X-5, 78	*283.38*	*341.42*		End of splice		

Bold = new splice tie point, italics = old splice tie points with new revised composite depth.

Table T13. Mapping pairs for adjusting cores to the rmcd (m revised CCSF-A) splice, Site U1334. (Continued on next three pages.)

Core	Depth (mbsf [m CSF-A])	Depth (rmcd [m revised CCSF-A])	Depth (rmcd [adjusted m revised CCSF-A])
320-U1334A-			
1H	*0.01*	*0.01*	*0.01*
1H	*6.60*	*6.60*	*6.60*
1H	8.24	8.24	8.30
2H	8.20	9.07	9.07
2H	*9.25*	*10.12*	*10.12*
2H	*16.74*	*17.61*	*17.61*
2H	18.16	19.03	19.03
3H	17.70	19.67	19.67
3H	*18.20*	*20.17*	*20.17*
3H	*26.45*	*28.42*	*28.42*
3H	27.70	29.67	29.67
4H	27.20	30.68	30.60
4H	27.32	30.80	31.00
4H	27.68	31.16	31.34
4H	27.84	31.32	31.52
4H	28.68	32.16	32.42
4H	30.07	33.55	33.64
4H	30.49	33.97	34.00
4H	*30.80*	*34.28*	*34.28*
4H	*35.89*	*39.37*	*39.37*
4H	37.23	40.71	40.65
5H	36.70	41.47	41.60
5H	37.25	42.02	42.15
5H	37.90	42.67	42.85
5H	38.04	42.81	43.10
5H	38.91	43.68	43.87
5H	40.66	45.43	45.53
5H	41.24	46.01	46.01
5H	*42.47*	*47.24*	*47.24*
5H	*44.31*	*49.08*	*49.08*
5H	44.88	49.65	49.63
5H	45.70	50.47	50.52
5H	46.39	51.16	51.06
5H	46.83	51.60	51.50
6H	46.20	53.13	53.46
6H	47.10	54.03	54.36
6H	49.22	56.15	56.15
6H	*50.04*	*56.97*	*56.97*
6H	*53.76*	*60.69*	*60.69*
6H	54.68	61.61	61.55
6H	55.49	62.42	62.42
6H	55.86	62.79	62.82
6H	56.25	63.18	63.21
7H	55.70	63.12	63.70
7H	57.18	64.60	64.83
7H	57.73	65.15	65.30
7H	58.55	65.97	66.11
7H	59.22	66.64	66.64
7H	*59.43*	*66.85*	*66.85*
7H	*63.84*	*71.26*	*71.26*
7H	65.71	73.13	73.13
8H	65.20	74.26	74.60
8H	66.22	75.28	75.32
8H	*67.26*	*76.32*	*76.32*
8H	*73.78*	*82.84*	*82.84*
8H	74.38	83.44	83.40
8H	75.11	84.17	84.17
9H	74.70	85.92	85.92
9H	*75.70*	*86.92*	*86.92*
9H	*82.16*	*93.38*	*93.38*
9H	84.79	96.01	95.65
10H	84.20	95.51	95.82
10H	85.38	96.69	97.00
10H	87.20	98.51	98.51
10H	*87.29*	*98.60*	*98.60*
10H	*92.97*	*104.28*	*104.28*
10H	94.00	105.31	105.00
11H	93.70	106.62	106.53
11H	95.16	108.08	107.99
11H	*96.79*	*109.71*	*109.71*
11H	*102.50*	*115.42*	*115.42*
11H	103.08	116.00	116.00
11H	103.80	116.72	116.55
12H	103.20	117.35	117.43
12H	103.55	117.70	117.76
12H	104.65	118.80	118.90
12H	105.17	119.32	119.33
12H	105.52	119.67	119.82
12H	106.29	120.44	120.44
12H	*108.13*	*122.28*	*122.28*
12H	*110.99*	*125.14*	*125.14*
12H	112.90	127.05	127.05
13H	112.70	128.14	128.18
13H	113.20	128.64	128.68
13H	113.88	129.32	129.36
13H	115.10	130.54	130.62
13H	116.83	132.27	132.35
13H	117.50	132.94	133.10
13H	118.17	133.61	133.67
13H	119.06	134.50	134.62
13H	119.72	135.16	135.16
13H	121.01	136.45	136.50
13H	121.80	137.24	137.24
13H	122.60	138.04	138.04
14H	122.20	139.13	139.05
14H	122.68	139.61	139.45
14H	123.15	140.08	140.08
14H	123.66	140.59	140.72
14H	124.07	141.00	141.22
14H	124.74	141.67	142.00
14H	126.83	143.76	144.45
14H	127.33	144.26	145.15
14H	127.85	144.78	145.80
14H	128.68	145.61	146.89
14H	128.95	145.88	147.16
14H	129.28	146.21	147.54
14H	129.58	146.51	147.86
14H	131.19	148.12	149.46
14H	132.01	148.94	150.28
15H	131.70	150.56	150.65
15H	132.46	151.32	151.41
15H	133.35	152.21	152.21
15H	134.67	153.53	153.58
15H	135.34	154.20	154.16
15H	136.67	155.53	155.62
15H	136.90	155.76	155.82
15H	138.21	157.07	157.36
15H	139.52	158.38	158.71
15H	140.00	158.86	159.11
15H	141.25	160.11	160.36
16H	141.20	161.76	161.95
16H	142.42	162.98	163.17
16H	145.44	166.00	166.01
16H	145.99	166.55	166.56
16H	148.04	168.60	168.80
16H	148.49	169.05	169.31
16H	149.62	170.18	170.44
17H	150.70	173.92	173.65
17H	152.57	175.79	175.40
17H	153.78	177.00	176.65
17H	155.62	178.84	178.55
17H	157.64	180.86	180.26
17H	158.80	182.02	181.35
17H	159.01	182.23	181.56
18H	160.20	184.30	184.14
18H	161.62	185.72	185.56
18H	162.33	186.43	186.34
18H	*162.83*	*186.93*	*186.93*
18H	*166.65*	*190.75*	*190.75*
18H	168.53	192.63	192.63
18H	170.22	194.32	194.32
19H	169.70	196.12	196.12
19H	*172.55*	*198.97*	*198.97*
19H	*177.23*	*203.65*	*203.65*
19H	178.54	204.96	204.96
20H	179.20	219.66	219.80
20H	180.58	221.04	221.18
20H	*182.29*	*222.75*	*222.75*
20H	*186.19*	*226.65*	*226.65*
20H	188.68	229.14	229.14
21H	188.70	229.86	229.86
21H	189.53	230.69	230.66
21H	189.92	231.08	231.11
21H	190.15	231.31	231.36
21H	*190.66*	*231.82*	*231.82*
21H	*195.35*	*236.51*	*236.51*
21H	196.27	237.43	237.44
21H	197.88	239.04	239.05
21H	198.10	239.26	239.34
21H	198.53	239.69	239.77
22H	198.20	240.66	240.66
22H	201.85	244.31	244.31
22H	*203.34*	*245.80*	*245.80*
22H	*204.90*	*247.36*	*247.36*
22H	205.24	247.70	247.96
22H	205.62	248.08	248.58
22H	206.91	249.37	249.87
23X	206.90	251.62	251.47
23X	207.25	251.97	251.81
23X	208.08	252.80	252.87
23X	208.95	253.67	253.92
23X	209.23	253.95	254.17
23X	*209.78*	*254.50*	*254.50*
23X	*214.67*	*259.39*	*259.39*
23X	215.12	259.84	259.95
23X	215.43	260.15	260.32
23X	215.65	260.37	260.60
23X	215.77	260.49	260.88
23X	216.22	260.94	260.33
24X	214.50	262.18	262.18
24X	*220.10*	*267.78*	*267.78*
24X	*223.34*	*271.02*	*271.02*
24X	224.27	271.95	271.95
25X	224.10	273.53	273.42
25X	224.60	274.03	273.92
25X	224.80	274.23	274.10
25X	225.00	274.43	274.28
25X	225.35	274.78	274.64
25X	225.94	275.37	275.44
25X	226.29	275.72	275.72
25X	*226.71*	*276.14*	*276.14*
25X	*232.57*	*282.00*	*282.00*
25X	233.84	283.27	282.75
26X	233.60	283.24	283.79

Table T13 (continued). (Continued on next page.)

Core	Depth (mbsf [m CSF-A])	Depth (rmcd [m revised CCSF-A])	Depth (rmcd [adjusted m revised CCSF-A])
26X	234.15	283.79	284.34
26X	235.36	285.00	285.31
26X	236.61	286.25	286.25
26X	*236.89*	*286.53*	*286.53*
26X	*242.03*	*291.67*	*291.67*
26X	243.41	293.05	293.05
27X	243.20	294.30	294.88
27X	243.48	294.58	295.16
27X	243.83	294.93	295.41
27X	244.71	295.81	296.05
27X	245.47	296.57	296.65
27X	245.73	296.83	296.83
27X	*246.28*	*297.38*	*297.38*
27X	*249.97*	*301.07*	*301.07*
27X	250.13	301.23	301.21
27X	250.24	301.34	301.30
27X	250.79	301.89	301.89
28X	252.80	306.10	306.20
28X	252.92	306.22	306.32
28X	253.09	306.39	306.47
28X	*253.27*	*306.57*	*306.57*
28X	*261.40*	*314.70*	*314.70*
28X	261.59	314.89	314.91
28X	261.70	315.00	315.02
28X	261.90	315.20	315.16
28X	262.76	316.06	316.02
29X	262.40	316.47	316.61
29X	263.81	317.88	317.88
29X	264.22	318.29	318.43
29X	265.13	319.20	319.21
29X	265.78	319.85	319.91
29X	266.25	320.32	320.39
29X	266.99	321.06	321.01
29X	267.19	321.26	321.20
29X	267.69	321.76	321.73
29X	268.04	322.11	322.03
29X	268.95	323.02	323.03
29X	269.37	323.44	323.57
29X	270.23	324.30	324.61
29X	270.86	324.93	325.28
29X	272.05	326.12	326.47
30X	272.10	327.37	327.01
30X	272.46	327.73	327.37
30X	273.03	328.30	328.00
30X	274.31	329.58	329.47
30X	274.92	330.19	330.14
30X	275.85	331.12	331.12
30X	276.91	332.18	332.18
30X	277.11	332.38	332.38
30X	277.74	333.01	332.84
30X	278.01	333.28	333.15
30X	278.84	334.11	334.08
30X	279.40	334.67	334.59
30X	279.72	334.99	335.09
30X	279.94	335.21	335.37
30X	280.55	335.82	336.02
30X	281.18	336.45	336.65
30X	281.75	337.02	337.22
31X	281.80	337.58	337.58
31X	283.94	339.72	339.72
32X	285.00	340.78	340.78
32X	285.36	341.14	341.14
320-U1334B-			
1H	3.70	7.70	7.36
1H	3.95	7.95	7.78
1H	5.80	9.80	9.79
1H	7.40	11.40	11.16
1H	11.57	15.57	14.92
1H	12.48	16.48	15.75
1H	13.72	17.72	16.80
2H	13.20	17.89	18.13
2H	14.90	19.59	19.83
2H	16.45	21.14	21.31
2H	17.69	22.38	22.48
2H	18.45	23.14	23.14
2H	19.83	24.52	24.55
2H	20.63	25.32	25.25
2H	21.63	26.32	26.20
2H	22.88	27.57	27.25
2H	23.08	27.77	27.45
3H	22.70	27.34	27.45
3H	23.18	27.82	27.95
3H	*23.78*	*28.42*	*28.42*
3H	*29.64*	*34.28*	*34.28*
3H	31.08	35.72	36.18
3H	32.05	36.69	37.32
3H	32.30	36.94	37.57
3H	32.87	37.51	38.14
4H	32.20	38.47	38.47
4H	*33.10*	*39.37*	*39.37*
4H	*40.97*	*47.24*	*47.24*
4H	41.96	48.23	48.23
5H	41.70	47.69	47.59
5H	43.74	49.73	49.63
5H	44.73	50.72	50.51
5H	45.35	51.34	51.04
5H	45.78	51.77	51.49
5H	46.72	52.71	52.32
5H	47.40	53.39	53.00
5H	48.06	54.05	53.42
5H	48.63	54.62	54.00
5H	49.01	55.00	54.32
5H	49.25	55.24	54.52
5H	50.96	56.95	55.85
6H	49.20	56.51	56.51
6H	50.00	57.31	57.31
6H	50.62	57.93	57.88
6H	52.31	59.62	59.42
6H	53.56	60.87	60.52
6H	54.34	61.65	61.30
6H	54.57	61.88	61.55
6H	54.84	62.15	61.89
6H	55.12	62.43	62.17
6H	55.53	62.84	62.58
6H	56.14	63.45	63.30
6H	56.54	63.85	63.64
6H	56.72	64.03	64.08
6H	57.25	64.56	64.53
6H	57.85	65.16	65.15
6H	58.02	65.33	65.31
6H	58.28	65.59	65.63
6H	58.53	65.84	65.88
6H	58.73	66.04	66.11
6H	59.23	66.54	66.61
7H	58.70	67.99	67.89
7H	59.58	68.87	68.77
7H	61.27	70.56	70.56
7H	*61.97*	*71.26*	*71.26*
7H	*67.03*	*76.32*	*76.32*
7H	68.91	78.20	78.20
8H	68.20	80.34	80.34
8H	*70.70*	*82.84*	*82.84*
8H	*74.78*	*86.92*	*86.92*
8H	77.35	89.49	89.49
8H	78.07	90.21	90.40
9H	77.70	92.05	91.99
9H	*79.03*	*93.38*	*93.38*
9H	*84.25*	*98.60*	*98.60*
9H	85.20	99.55	99.72
9H	85.90	100.25	100.52
9H	86.40	100.75	101.10
9H	86.91	101.26	101.68
9H	87.73	102.08	102.50
10H	87.20	102.64	102.77
10H	87.40	102.84	102.97
10H	88.00	103.44	103.99
10H	91.42	106.86	106.22
10H	91.72	107.16	106.39
10H	91.99	107.43	106.70
10H	92.65	108.09	108.00
10H	93.12	108.56	108.56
10H	93.80	109.24	109.14
10H	94.72	110.16	109.75
10H	94.89	110.33	110.01
10H	95.36	110.80	110.38
10H	96.15	111.59	111.02
10H	97.25	112.69	112.12
11H	96.70	113.79	113.79
11H	*98.33*	*115.42*	*115.42*
11H	*105.19*	*122.28*	*122.28*
11H	106.74	123.83	123.83
12H	106.20	123.48	123.60
12H	*107.86*	*125.14*	*125.14*
12H	*113.95*	*131.23*	*131.23*
12H	116.19	133.47	133.47
13H	115.70	134.69	134.80
13H	*117.49*	*136.48*	*136.48*
13H	*121.61*	*140.60*	*140.60*
13H	125.64	144.63	144.63
14H	125.20	146.94	146.94
14H	*125.63*	*147.37*	*147.37*
14H	*130.58*	*152.32*	*152.32*
14H	135.35	157.09	157.30
15H	134.70	157.19	156.95
15H	*135.88*	*158.37*	*158.37*
15H	*143.40*	*165.89*	*165.89*
15H	144.64	167.13	167.30
16H	144.20	167.99	167.99
16H	*145.58*	*169.37*	*169.37*
16H	*150.85*	*174.64*	*174.64*
16H	154.27	178.06	177.50
17H	153.70	178.84	178.84
17H	*154.98*	*180.12*	*180.12*
17H	*161.79*	*186.93*	*186.93*
17H	163.73	188.87	188.87
18H	163.20	190.30	190.30
18H	*163.65*	*190.75*	*190.75*
18H	*171.87*	*198.97*	*198.97*
18H	173.28	200.38	200.38
19H	172.70	200.95	200.95
19H	*175.40*	*203.65*	*203.65*
19H	*177.22*	*205.47*	*205.47*
19H	178.23	206.48	206.48
19H	179.18	207.43	207.63
19H	181.58	209.83	209.83
19H	182.69	210.94	210.94
20H	182.20	212.66	212.66
20H	*182.72*	*213.18*	*213.18*
20H	*189.30*	*219.76*	*219.76*
20H	189.76	220.22	220.32

Table T13 (continued). (Continued on next page.)

Core	Depth (mbsf [m CSF-A])	Depth (rmcd [m revised CCSF-A])	Depth (rmcd [adjusted m revised CCSF-A])
20H	190.39	220.85	220.77
20H	190.75	221.21	221.14
20H	191.36	221.82	221.72
20H	191.58	222.04	221.94
21H	191.70	224.21	223.91
21H	192.38	224.89	224.59
21H	192.80	225.31	225.06
21H	193.30	225.81	225.68
21H	*194.14*	*226.65*	*226.65*
21H	*199.31*	*231.82*	*231.82*
21H	199.64	232.15	232.14
21H	200.48	232.99	232.94
21H	201.31	233.82	233.77
22H	201.20	235.11	235.11
22H	*202.60*	*236.51*	*236.51*
22H	*210.33*	*244.24*	*244.24*
22H	211.13	245.04	245.04
23X	210.70	245.61	245.71
23X	211.33	246.24	246.34
23X	*212.45*	*247.36*	*247.36*
23X	*219.59*	*254.50*	*254.50*
23X	220.48	255.39	255.39
24X	219.00	268.63	268.63
24X	221.46	271.09	271.09
24X	222.02	271.65	271.61
24X	222.52	272.15	272.08
24X	222.92	272.55	272.41
24X	223.86	273.49	273.28
24X	224.61	274.24	274.10
24X	225.09	274.72	274.64
24X	226.06	275.69	275.75
24X	226.97	276.60	276.74
24X	228.21	277.84	278.03
24X	228.73	278.36	278.55
25X	228.60	279.32	279.72
25X	229.15	279.87	280.27
25X	229.75	280.47	280.76
25X	230.93	281.65	281.95
25X	232.77	283.49	283.61
25X	233.50	284.22	284.35
25X	234.13	284.85	284.98
25X	234.50	285.22	285.28
25X	235.29	286.01	286.01
25X	235.81	286.53	286.53
25X	237.43	288.15	288.38
25X	238.42	289.14	289.37
26X	238.20	290.52	290.52
26X	*239.35*	*291.67*	*291.67*
26X	*245.06*	*297.38*	*297.38*
26X	245.28	297.60	297.59
26X	245.40	297.72	297.79
26X	245.81	298.13	298.29
26X	246.26	298.58	298.72
26X	246.71	299.03	299.20
26X	246.95	299.27	299.46
26X	247.30	299.62	299.84
26X	247.46	299.78	299.99
26X	247.90	300.22	300.43
27X	247.80	301.93	302.05
27X	248.00	302.13	302.25
27X	248.18	302.31	302.35
27X	*248.65*	*302.78*	*302.78*
27X	*252.44*	*306.57*	*306.57*
27X	252.90	307.03	306.98
27X	254.30	308.43	308.37
27X	254.87	309.00	308.96
27X	255.02	309.15	309.09
27X	257.63	311.76	311.70
28X	257.40	312.61	312.69
28X	257.75	312.96	313.04
28X	258.40	313.61	313.57
28X	258.98	314.19	314.11
28X	259.24	314.45	314.40
28X	*259.49*	*314.70*	*314.70*
28X	*262.82*	*318.03*	*318.03*
28X	263.18	318.39	318.45
28X	263.66	318.87	318.81
28X	264.17	319.38	319.21
28X	264.75	319.96	319.91
28X	265.71	320.92	320.69
28X	266.08	321.29	321.01
28X	266.73	321.94	321.65
28X	267.34	322.55	322.26
29X	267.00	324.43	324.50
29X	*267.96*	*325.39*	*325.39*
29X	*275.40*	*332.83*	*332.83*
29X	277.03	334.46	334.40
30X	276.60	334.64	334.78
30X	276.67	334.71	334.85
30X	276.90	334.94	335.04
30X	*277.11*	*335.15*	*335.23*
30X	*277.71*	*335.75*	*335.75*
30X	283.83	341.87	341.87
31X	283.90	341.94	341.94
31X	284.02	342.06	342.06
320-U1334C-			
1H	0.00	3.65	3.79
1H	1.67	5.32	5.46
1H	*2.84*	*6.49*	*6.49*
1H	*6.47*	*10.12*	*10.12*
1H	9.83	13.48	13.48
2H	9.50	13.83	13.83
2H	*13.28*	*17.61*	*17.61*
2H	*15.84*	*20.17*	*20.17*
2H	18.72	23.05	23.05
3H	19.00	25.65	25.65
3H	20.95	27.60	27.60
3H	21.84	28.49	28.32
3H	22.92	29.57	29.36
3H	23.75	30.40	30.32
3H	24.25	30.90	30.92
3H	24.78	31.43	31.50
3H	25.58	32.23	32.42
3H	26.92	33.57	33.70
3H	27.78	34.43	34.43
3H	28.12	34.77	34.77
4H	28.50	38.54	38.45
4H	28.80	38.84	38.75
4H	28.98	39.02	39.05
4H	29.80	39.84	39.62
4H	30.58	40.62	40.58
4H	31.24	41.28	41.28
4H	32.63	42.67	42.85
4H	33.14	43.18	43.38
4H	33.64	43.68	43.83
4H	35.20	45.24	45.54
4H	35.68	45.72	45.98
4H	36.83	46.87	47.11
4H	37.36	47.40	47.70
4H	37.90	47.94	48.28
4H	38.31	48.35	48.69
5H	38.00	48.11	48.11
5H	*38.97*	*49.08*	*49.08*
5H	*46.86*	*56.97*	*56.97*
5H	48.03	58.14	58.14
6H	47.50	59.56	59.56
6H	*48.63*	*60.69*	*60.69*
6H	*54.79*	*66.85*	*66.85*
6H	57.28	69.34	69.55
7H	57.00	69.06	69.23
7H	59.63	71.69	71.86
7H	61.02	73.08	73.27
7H	62.53	74.59	74.63
7H	63.25	75.31	75.33
7H	63.82	75.88	75.88
7H	64.95	77.01	77.09
7H	65.47	77.53	77.66
7H	66.12	78.18	78.06
7H	66.64	78.70	78.58
8H	66.50	80.46	80.33
8H	67.70	81.66	81.79
8H	68.89	82.85	82.82
8H	69.74	83.70	83.59
8H	70.97	84.93	84.86
8H	71.36	85.32	85.18
8H	71.96	85.92	85.81
8H	73.11	87.07	87.00
8H	74.14	88.10	88.00
8H	75.59	89.55	89.55
8H	76.36	90.32	90.32
9H	76.00	92.30	92.15
9H	76.80	93.10	92.95
9H	77.57	93.87	93.87
9H	79.29	95.59	95.32
9H	79.74	96.04	95.70
9H	81.31	97.61	97.16
9H	82.28	98.58	98.04
9H	82.93	99.23	98.64
9H	83.25	99.55	98.97
9H	84.70	101.00	100.65
9H	85.82	102.12	101.80
10H	85.50	103.48	103.48
10H	*86.30*	*104.28*	*104.28*
10H	*91.73*	*109.71*	*109.71*
10H	92.43	110.41	110.41
10H	93.97	111.95	111.79
10H	94.90	112.88	112.72
10H	95.17	113.15	112.99
11H	95.00	114.69	114.79
11H	95.98	115.67	115.77
11H	96.43	116.12	116.22
11H	98.08	117.77	117.77
11H	99.23	118.92	118.92
11H	99.66	119.35	119.41
11H	99.92	119.61	119.51
11H	100.22	119.91	119.91
11H	100.77	120.46	120.46
11H	101.84	121.53	121.55
11H	102.16	121.85	121.85
11H	102.41	122.10	122.10
11H	104.01	123.70	123.70
11H	104.62	124.31	124.31
12H	104.50	127.25	126.95
12H	105.30	128.05	127.75
12H	106.78	129.53	129.35
12H	107.68	130.43	130.31
12H	*108.48*	*131.23*	*131.23*
12H	*113.73*	*136.48*	*136.48*
12H	114.28	137.03	137.03
13H	114.00	139.13	139.00

Table T13 (continued).

Core	Depth (mbsf [m CSF-A])	Depth (rmcd [m revised CCSF-A])	Depth (rmcd [adjusted m revised CCSF-A])
13H	114.91	140.04	139.94
13H	115.32	140.45	140.35
13H	*115.47*	*140.60*	*140.60*
13H	*122.24*	*147.37*	*147.37*
13H	122.81	147.94	147.90
13H	123.85	148.98	148.80
14H	123.50	150.56	150.56
14H	*125.26*	*152.32*	*152.32*
14H	*131.31*	*158.37*	*158.37*
14H	133.03	160.09	160.09
15H	133.00	161.23	161.63
15H	*137.66*	*165.89*	*165.89*
15H	*141.14*	*169.37*	*169.37*
15H	142.50	170.73	170.73
16H	142.50	172.19	172.00
16H	143.88	173.57	173.57
16H	*144.95*	*174.64*	*174.64*
16H	*150.43*	*180.12*	*180.12*
16H	151.94	181.63	181.78
17H	152.00	182.35	182.23
17H	153.21	183.56	183.44
17H	153.72	184.07	183.94
17H	155.27	185.62	185.46
17H	156.68	187.03	187.07
17H	160.53	190.88	191.30
17H	161.52	191.87	191.29
18H	161.50	192.94	193.50
18H	162.31	193.75	194.31
18H	166.37	197.81	197.75
18H	167.45	198.89	198.90
18H	168.70	200.14	200.10
18H	170.56	202.00	201.94
18H	171.16	202.60	202.54
19H	171.00	203.52	203.48
19H	171.75	204.27	204.21
19H	172.88	205.40	205.44
19H	*173.05*	*205.57*	*205.57*
19H	*180.66*	*213.18*	*213.18*
19H	180.76	213.28	213.28
20H	180.50	213.83	213.40
20H	180.75	214.08	213.65
20H	181.79	215.12	214.63
20H	184.21	217.54	217.23
20H	184.67	218.00	217.76
20H	*186.43*	*219.76*	*219.76*
20H	*189.42*	*222.75*	*222.75*
20H	190.02	223.79	223.79
21H	190.00	224.06	224.06
21H	199.97	234.03	234.03
22H	199.50	236.36	236.31
22H	199.76	236.62	236.56
22H	200.68	237.54	237.36
22H	201.69	238.55	238.36
22H	202.59	239.45	239.28
22H	204.78	241.64	241.58
22H	205.77	242.63	242.72
22H	*187.38*	*224.24*	*244.24*
22H	*208.94*	*245.80*	*245.80*
22H	209.41	246.27	246.27
23X	209.00	250.35	249.99
23X	209.22	250.57	250.21
23X	210.14	251.49	251.37
23X	210.94	252.29	252.04
23X	211.65	253.00	252.89
23X	212.70	254.05	254.25
23X	213.16	254.51	254.70
23X	213.61	254.96	255.15
24X	214.00	258.85	258.86
24X	*214.54*	*259.39*	*259.39*
24X	*222.93*	*267.78*	*267.78*
24X	223.89	268.74	268.74
25X	223.60	269.93	269.93
25X	*224.69*	*271.02*	*271.02*
25X	*229.81*	*276.14*	*276.14*
25X	230.49	276.82	276.88
25X	232.03	278.36	278.45
25X	232.93	279.26	279.27
25X	233.35	279.68	279.69
26X	233.20	280.30	280.30
26X	*234.90*	*282.00*	*282.00*
26X	*239.43*	*286.53*	*286.53*
26X	240.54	287.64	287.80
27X	239.20	287.21	287.54
27X	241.16	289.17	289.50
27X	242.55	290.56	290.45
27X	243.58	291.59	291.49
27X	245.17	293.18	293.48
27X	245.44	293.45	293.30
27X	246.97	294.98	294.95
27X	247.35	295.36	295.41
27X	248.16	296.17	296.22
28X	248.80	298.33	297.65
28X	249.49	299.02	298.62
28X	249.60	299.13	298.76
28X	249.74	299.27	298.92
28X	249.89	299.42	299.08
28X	250.00	299.53	299.20
28X	250.22	299.75	299.46
28X	250.29	299.82	299.58
28X	250.38	299.91	299.68
28X	250.44	299.97	299.74
28X	250.54	300.07	299.87
28X	250.80	300.33	300.19
28X	250.95	300.48	300.38
28X	251.25	300.78	300.76
28X	*251.54*	*301.07*	*301.07*
28X	*253.25*	*302.78*	*302.78*
28X	253.48	303.01	303.05
28X	253.68	303.21	303.31
28X	254.01	303.54	303.83
28X	254.26	303.79	304.09
28X	254.67	304.20	304.64
28X	254.96	304.49	305.09
28X	255.06	304.59	305.24
28X	255.26	304.79	305.61
28X	255.42	304.95	305.86
28X	255.82	305.35	306.45
28X	256.34	305.87	307.26
28X	256.94	306.47	308.46
28X	257.21	306.74	308.76
28X	257.52	307.05	309.15
28X	258.62	308.15	310.15
29X	258.40	316.68	316.68
29X	258.56	316.84	316.95
29X	258.76	317.04	317.09
29X	259.10	317.38	317.35
29X	*259.75*	*318.03*	*318.03*
29X	*267.11*	*325.39*	*325.39*
29X	268.29	326.57	326.57
30X	268.00	326.81	326.78
30X	268.69	327.50	327.37
30X	269.78	328.59	328.45
30X	271.40	330.21	330.14
30X	271.78	330.59	330.57
30X	271.91	330.72	330.62
30X	272.88	331.69	331.55
30X	273.08	331.89	331.84
30X	273.63	332.44	332.28
30X	274.02	332.83	332.83
30X	276.94	335.75	335.75
30X	277.96	336.77	336.77
31X	277.70	338.72	338.72
31X	280.11	341.13	341.13
32X	279.70	279.70	279.70
32X	280.17	280.17	280.17

Italics = splice tie points.

Table T14. Revised offset for composite depth section, Site 1218.

Core	Depth (mbsf)	Offset (m)	Depth (corrected rmcd)
199-1218A-			
1H	0.00	0.00	0.00
2H	8.20	0.78	8.98
3H	17.70	2.34	20.04
4H	27.20	4.42	31.62
5H	36.70	4.80	41.50
6H	46.20	6.84	53.04
7H	55.70	8.06	63.76
8H	65.20	7.96	73.16
9H	74.70	10.26	84.96
10H	84.20	11.90	96.10
11H	93.70	13.40	107.10
12H	103.20	14.47	117.67
13H	112.70	14.91	127.61
14H	122.20	15.42	137.62
15H	131.70	16.22	147.92
16H	141.20	17.84	159.04
17H	150.70	17.90	168.60
18H	160.20	20.56	180.76
19H	169.70	20.38	190.08
20H	179.20	22.28	201.48
22X	195.90	**22.93**	**218.83**
23X	205.50	**22.64**	**228.14**
24X	215.10	**24.48**	**239.58**
25X	224.70	**25.73**	**250.43**
26X	234.30	**25.53**	**259.83**
27X	243.90	**25.59**	**269.49**
28X	253.50	**24.53**	**278.03**
29X	263.10	**24.83**	**287.93**
30X	270.70	**23.63**	**294.33**
199-1218B-			
1H	0.00	0.00	0.00
2H	3.90	1.16	5.06
3H	13.40	3.82	17.22
4H	22.90	5.18	28.08
5H	32.40	5.66	38.06
6H	41.90	7.66	49.56
7H	51.40	7.29	58.69
8H	60.90	8.39	69.29
9H	70.40	8.34	78.74
10H	79.90	10.80	90.70
11H	89.40	13.38	102.78
12H	98.90	15.24	114.14
13H	108.40	15.49	123.89
14H	117.90	16.46	134.36
15H	127.40	17.82	145.22
16H	136.90	19.02	155.92
17H	146.40	19.78	166.18
18H	155.90	20.12	176.02
19X	165.40	19.04	184.44
20X	175.10	20.70	195.80
21X	184.80	**22.27**	**207.07**
22X	194.40	**23.65**	**218.05**
23X	204.10	**23.18**	**227.28**
24X	213.70	**25.86**	**239.56**
25X	223.30	**27.59**	**250.89**
26X	228.30	**27.07**	**255.37**
27X	237.90	**28.59**	**266.49**
28X	247.50	**31.20**	**278.70**
29X	257.20	**30.00**	**287.20**
199-1218C-			
1H	55.00	8.04	63.04
2H	64.50	9.36	73.86
3H	74.00	9.78	83.78
4H	83.50	11.58	95.08
5H	93.00	12.82	105.82
6H	102.50	15.58	118.08
7H	112.00	14.09	126.09
8H	121.50	14.47	135.97
9H	131.00	15.90	146.90
10H	144.50	17.84	162.34
11H	154.00	18.62	172.62
12X	163.50	19.78	183.28
13X	172.00	19.76	191.76
14X	181.60	19.81	201.41
15X	191.20	**21.82**	**213.02**
16X	200.80	**23.30**	**224.10**
17X	210.40	**22.86**	**233.26**
18X	223.00	**23.88**	**246.88**
19X	232.60	**24.39**	**256.99**
20X	242.20	**26.91**	**269.11**
21X	247.20	**27.03**	**274.23**

Bold = changes to rmcd of Pälike et al. (2005).

Table T15. Tie points used to create the corrected revised composite depth section (corrected rmcd), Site 1218.

Hole, core, section, interval (cm)	Depth (mbsf)	Depth (Corrected rmcd)		Hole, core, section, interval (cm)	Depth (mbsf)	Depth (Corrected rmcd)
199-				199-		
1218A-1H-5, 54	6.54	6.54	Tie to	1218B-2H-1, 148	5.38	6.54
1218B-2H-5, 40	10.30	11.46	Tie to	1218A-2H-2, 97	10.68	11.46
1218A-2H-7, 6	17.26	18.04	Tie to	1218B-3H-1, 82	14.22	18.04
1218B-3H-5, 12	19.52	23.34	Tie to	1218A-3H-3, 30	21.00	23.34
1218A-3H-6, 132	26.52	28.86	Tie to	1218B-4H-1, 78	23.68	28.86
1218B-4H-4, 120	28.60	33.78	Tie to	1218A-4H-2, 66	29.36	33.78
1218A-4H-6, 132	36.02	40.44	Tie to	1218B-5H-2, 88	34.78	40.44
1218B-5H-5, 44	38.84	44.50	Tie to	1218A-5H-2, 150	39.70	44.50
1218A-5H-7, 20	45.90	50.70	Tie to	1218B-6H-1, 113	43.04	50.70
1218B-6H-4, 60	47.00	54.66	Tie to	1218A-6H-2, 12	47.82	54.66
1218A-6H-6, 88	54.58	61.42	Tie to	1218B-7H-2, 128	54.13	61.42
1218B-7H-5, 56	57.91	65.20	Tie to	1218A-7H-1, 144	57.14	65.20
1218A-7H-6, 8	63.28	71.34	Tie to	1218B-8H-2, 54.5	62.95	71.34
1218B-8H-5, 76	67.66	76.05	Tie to	1218A-8H-2, 138.5	68.09	76.05
1218A-8H-5, 112	72.32	80.28	Tie to	1218B-9H-2, 3	71.94	80.28
1218B-9H-6, 118	79.08	87.42	Tie to	1218A-9H-2, 96	77.16	87.42
1218A-9H-6, 112	83.32	93.58	Tie to	1218B-10H-2, 138	82.78	93.58
1218B-10H-6, 126	88.66	99.46	Tie to	1218A-10H-3, 36	87.56	99.46
1218A-10H-6, 92	92.62	104.52	Tie to	1218B-11H-2, 24	91.14	104.52
1218B-11H-6, 144	98.34	111.72	Tie to	1218A-11H-4, 12	98.32	111.72
1218A-11H-6, 136	102.56	115.96	Tie to	1218B-12H-2, 32	100.72	115.96
1218B-12H-5, 144	106.34	121.58	Tie to	1218A-12H-3, 90.5	107.11	121.58
1218A-12H-5, 112	110.32	124.79	Tie to	1218B-13H-1, 90	109.30	124.79
1218B-13H-6, 44	116.34	131.83	Tie to	1218A-13H-3, 122	116.92	131.83
1218A-13H-6, 44	120.64	135.55	Tie to	1218B-14H-1, 118.5	119.09	135.55
1218B-14H-4, 66	123.06	139.52	Tie to	1218A-14H-2, 36	124.10	139.52
1218A-14H-6, 104	130.74	146.16	Tie to	1218B-15H-1, 94	128.34	146.16
1218B-15H-4, 40	132.30	150.12	Tie to	1218A-15H-2, 69	133.90	150.12
1218A-15H-7, 48	141.18	157.40	Tie to	1218B-16H-1, 148	138.38	157.40
1218B-16H-6, 40	144.30	163.32	Tie to	1218A-16H-3, 128	145.48	163.32
1218A-16H-6, 64	149.34	167.18	Tie to	1218B-17H-1, 99	147.40	167.18
1218B-17H-6, 46	154.36	174.14	Tie to	1218C-11H-2, 0	155.52	174.14
1218C-11H-5, 58	160.58	179.20	Tie to	1218B-18H-3, 18	159.08	179.20
1218B-18H-5, 118	163.08	183.20	Tie to	1218A-18H-2, 94	162.64	183.20
1218A-18H-5, 8	166.20	186.76	Tie to	1218C-12X-3, 48	166.98	186.76
1218C-12X-6, 28	171.28	191.06	Tie to	1218A-19H-1, 98	170.68	191.06
1218A-19H-6, 76	177.96	198.34	Tie to	1218B-20X-2, 103	177.64	198.34
1218B-20X-5, 120	182.30	203.00	Tie to	1218A-20H-1, 152	180.72	203.00
1218A-20H-6, 124	**187.94**	**210.22**	Tie to	**1218B-21X-3, 15**	**187.95**	**210.22**
1218B-21X-6, 86	**193.16**	**215.43**	Tie to	**1218C-15X-2, 93**	**193.63**	**215.43**
1218C-15X-4, 118	**196.88**	**218.70**	Tie to	**1218B-22X-1, 65**	**195.05**	**218.70**
1218B-22X-6, 82	**202.72**	**226.37**	Tie to	**1218C-16X-2, 77**	**203.08**	**226.37**
1218C-16X-4, 80	**206.10**	**229.40**	Tie to	**1218A-23X-1, 126**	**206.76**	**229.40**
1218A-23X-5, 10	**211.60**	**234.24**	Tie to	**1218C-17X-1, 98**	**211.38**	**234.24**
1218C-17X-6, 12	*217.72*	*240.58*	Tie to	*1218B-24X-1, 102*	*214.72*	*240.58*
1218B-24X-6, 94	*222.14*	*248.00*	Tie to	*1218C-18X-1, 112*	*224.12*	*248.00*
1218C-18X-7, 36	**231.93**	**255.81**	Tie to	**1218B-26X-1, 44**	**228.74**	**255.81**
1218B-26X-5, 90	**234.70**	**261.77**	Tie to	**1218A-26X-2, 44**	**236.24**	**261.77**
1218A-26X-6, 7	**241.87**	**267.40**	Tie to	**1218B-27X-1, 91**	**238.81**	**267.40**
1218B-27X-6, 119	**246.59**	**275.18**	Tie to	**1218C-21X-1, 95**	**248.15**	**275.18**
1218C-21X-5, 66	**253.86**	**280.89**	Tie to	**1218A-28X-2, 136**	**256.36**	**280.89**
1218A-28X-7, 74	*262.74*	*287.27*	Append to	*1218A-29X-1, 0*	*263.10*	*287.93*
1218A-29X-4, 88	*268.48*	*292.17*	Append to	*1218A-30X-1, 0*	*270.70*	*294.39*
1218A-30X-2, 140	*273.60*	*297.29*				

Bold = changes to rmcd of Pälike et al. (2005), italics = shifts according to new offsets higher up in the section.

Table T16. Revised mapping pairs for adjusting cores to the corrected rmcd splice, Site 1218.

Core	Depth (mbsf)	Depth (Corrected rmcd)	Depth Adjusted (corrected rmcd)
199-1218A-			
22X	195.90	218.83	218.83
22X	203.63	226.56	226.56
23X	205.50	228.14	228.14
23X	*206.76*	*229.40*	*229.40*
23X	*211.60*	*234.24*	*234.24*
23X	212.42	235.06	235.06
23X	212.88	235.52	235.52
23X	215.39	238.03	238.03
24X	215.10	239.58	239.58
24X	215.64	240.12	240.12
24X	216.02	240.50	240.56
24X	216.42	240.90	240.90
24X	216.70	241.18	241.20
24X	217.60	242.08	242.00
24X	218.19	242.67	242.40
24X	220.06	244.54	243.98
24X	221.46	245.94	245.24
24X	223.28	247.76	246.70
24X	223.86	248.34	247.24
24X	224.92	249.40	248.15
25X	224.70	250.43	250.33
25X	225.33	251.06	251.05
25X	225.85	251.58	251.57
25X	226.06	251.79	251.67
25X	226.24	251.97	251.96
25X	226.48	252.21	252.11
25X	227.14	252.87	252.45
25X	227.60	253.33	252.83
25X	228.28	254.01	253.83
25X	228.80	254.53	254.73
25X	229.51	255.24	255.17
25X	230.06	255.79	255.85
25X	232.54	258.27	258.14
25X	234.31	260.04	259.94
26X	234.30	259.83	260.41
26X	234.24	259.77	260.35
26X	*236.24*	*261.77*	*261.77*
26X	*241.87*	*267.40*	*267.40*
26X	244.17	269.70	269.50
27X	243.84	269.43	269.63
27X	246.24	271.83	271.83
27X	250.43	276.02	276.02
28X	253.50	278.03	278.03
28X	255.47	280.00	279.80
28X	*256.36*	*280.89*	*280.89*
28X	262.98	287.51	287.51
199-1218B-			
21X	184.80	207.07	207.38
21X	185.04	207.31	207.62
21X	187.12	209.39	209.41
21X	*187.95*	*210.22*	*210.22*
21X	*193.16*	*215.43*	*215.43*
21X	194.50	216.77	216.77
22X	194.40	218.05	218.05
22X	*195.05*	*218.70*	*218.70*
22X	*202.72*	*226.37*	*226.37*
22X	203.99	227.64	227.64
23X	204.10	227.28	228.22
23X	205.48	228.66	229.58
23X	206.20	229.38	230.00
23X	206.99	230.17	230.71
23X	208.34	231.52	231.74
23X	209.65	232.83	233.04
23X	210.00	233.18	233.28
23X	211.88	235.06	235.09
23X	212.68	235.86	235.73
23X	213.02	236.20	236.26
23X	213.82	237.00	237.00
24X	213.70	239.56	239.61
24X	214.20	240.06	240.13
24X	*214.72*	*240.58*	*240.58*
24X	*222.14*	*248.00*	*248.00*
24X	223.46	249.32	249.32
25X	223.30	250.89	250.51
25X	223.78	251.37	251.24
25X	224.24	251.83	251.71
25X	224.61	252.20	252.03
25X	224.72	252.31	252.21
25X	224.72	253.05	252.83
25X	227.60	255.19	255.20
26X	228.30	255.37	255.37
26X	*228.74*	*255.81*	*255.81*
26X	*234.70*	*261.77*	*261.77*
26X	237.89	264.96	264.96
27X	237.90	266.49	266.35
27X	*238.81*	*267.40*	*267.40*
27X	*246.59*	*275.18*	*275.18*
27X	247.65	276.24	276.24
28X	247.50	278.70	278.70
28X	249.20	280.40	280.32
28X	249.80	281.00	280.99
28X	250.90	282.10	281.94
28X	252.67	283.87	284.07
29X	257.20	287.20	289.70
29X	258.52	288.52	290.64
29X	258.82	288.82	291.34
29X	259.74	289.74	292.08
29X	261.64	291.64	293.94
199-1218C-			
15X	191.20	213.02	213.20
15X	192.90	214.72	214.72
15X	193.07	214.89	214.89
15X	*193.61*	*215.43*	*215.43*
15X	*196.88*	*218.70*	*218.70*
15X	199.64	221.46	221.27
15X	200.36	222.18	221.95
15X	200.99	222.91	222.68
16X	200.80	224.10	223.80
16X	202.18	226.08	225.90
16X	*203.07*	*226.37*	*226.37*
16X	*206.10*	*229.40*	*229.40*
16X	207.86	231.76	231.88
16X	209.34	233.24	233.24
17X	210.40	233.26	233.26
17X	*211.38*	*234.24*	*234.24*
17X	*217.72*	*240.58*	*240.58*
17X	218.12	240.80	240.80
17X	218.50	241.22	241.30
17X	218.47	241.33	241.46
17X	219.40	241.85	241.95
17X	220.12	243.58	243.68
18X	223.00	246.88	246.98
18X	*224.12*	*248.00*	*248.00*
18X	*231.93*	*255.81*	*255.81*
18X	232.74	257.16	257.16
19X	232.60	256.99	257.94
19X	234.22	259.15	259.69
19X	235.36	260.29	260.78
19X	236.15	261.08	261.18
19X	237.58	262.51	262.51
19X	239.06	263.45	263.65
19X	239.62	264.01	264.30
19X	240.80	265.19	266.47
19X	242.20	267.13	269.00
20X	242.20	269.11	268.91
20X	244.98	272.43	272.48
20X	247.73	275.18	275.18
21X	247.20	274.23	274.23
21X	*248.15*	*275.18*	*275.18*
21X	*253.86*	*280.89*	*280.89*
21X	255.38	282.41	283.19
21X	256.29	283.32	284.39
21X	256.68	284.25	285.32

Italics = splice tie points.

Table T17. Tie points used to create the revised composite depth section (rmcd from Pälike et al., 2005), Site 1219.

Hole, core, section, interval (cm)	Depth (mbsf)	Depth (rmcd)		Hole, core, section, interval (cm)	Depth (mbsf)	Depth (rmcd)
199-				199-		
1219A-1H-4, 128	5.78	5.78	Tie to	1219A-2H-1, 0	6.00	6.00
1219A-2H-7, 78	15.78	15.78	Tie to	1219A-3H-1, 28	15.78	15.78
1219A-3H-6, 32	23.32	23.32	Tie to	1219B-2H-1, 76	21.76	23.32
1219B-2H-6, 88	29.29	30.85	Tie to	1219A-4H-4, 46.5	29.97	30.85
1219A-4H-6, 128	33.78	34.66	Tie to	1219B-3H-1, 80.5	31.31	34.66
1219B-3H-4, 142	36.42	39.77	Tie to	1219A-5H-2, 148	37.48	39.77
1219A-5H-7, 40	43.90	46.19	Tie to	1219B-4H-2, 28	41.78	46.19
1219B-4H-4, 60	45.10	49.51	Tie to	1219A-6H-1, 149	45.49	49.51
1219A-6H-5, 124	51.24	55.26	Tie to	1219B-5H-1, 86	50.36	55.26
1219B-5H-6, 50	57.50	62.40	Tie to	1219A-7H-5, 98.5	60.33	62.40
1219A-7H-6, 128	62.12	64.19	Tie to	1219B-6H-1, 84.5	59.85	64.19
1219B-6H-6, 142	67.92	72.26	Tie to	1219A-8H-5, 19.5	69.21	72.26
1219A-8H-7, 32	72.32	75.37	Tie to	1219B-7H-1, 88.5	69.39	75.37
1219B-7H-6, 40	76.40	82.38	Tie to	1219A-9H-2, 100.5	75.01	82.38
1219A-9H-6, 79	**80.79**	**88.16**	Tie to	**1219B-8H-2, 124**	**80.74**	**88.16**
1219B-8H-7, 66	**87.66**	**95.08**	Tie to	**1219A-10H-3, 31**	**85.31**	**95.08**
1219A-10H-4, 100	**87.50**	**97.27**	Tie to	**1219B-9H-1, 31**	**87.81**	**97.27**
1219B-9H-5, 28	93.78	103.55	Tie to	1219A-11H-1, 148	92.98	103.55
1219A-11H-5, 8	97.58	108.15	Tie to	1219B-10H-1, 78.5	97.79	108.15
1219B-10H-6, 98	105.48	115.84	Tie to	1219A-12H-2, 103.5	103.55	115.84
1219A-12H-6, 28	108.78	121.07	Tie to	1219B-11H-3, 34	109.84	121.07
1219B-11H-7, 64	116.14	127.37	Tie to	1219A-13H-1, 0	110.50	127.25
1219A-13H-5, 124	117.30	134.05	Tie to	1219B-12H-4, 109	121.60	134.05
1219B-12H-7, 74	125.74	138.19	Append to	1219B-13H-1, 0	125.50	138.95
1219B-13H-7, 48	134.98	148.43	Tie to	1219A-15H-1, 0	129.50	149.51
1219A-15H-7, 62	139.12	159.13	Append to	1219A-16H-1, 0	139.00	160.49
1219A-16H-7, 50	148.61	170.10	Append to	1219A-17H-1, 0	148.50	170.99
1219A-17H-8, 22	157.99	180.48	Append to	1219A-18H-1, 0	158.00	181.49
1219A-18H-7, 48	167.48	190.97	Append to	1219A-19H-1, 0	167.50	191.99
1219A-19H-7, 46	176.96	201.45	Append to	1219A-20H-1, 0	177.00	202.49
1219A-20H-7, 94	186.99	212.48	Append to	1219A-21H-1, 0	186.50	212.99
1219A-21H-8, 48	195.98	222.47	Append to	1219A-22H-1, 0	196.00	223.49
1219A-22H-7, 48	205.48	232.97	Append to	1219A-23H-1, 0	205.50	233.99
1219A-23H-7, 64	215.14	243.63	Append to	1219A-24H-1, 0	215.00	244.49
1219A-24H-7, 58	224.63	254.12	Append to	1219A-25X-1, 0	224.50	254.99
1219A-25X-2, 52	226.52	257.01	Append to	1219A-26X-1, 0	234.10	265.59
1219A-26X-3, 72	237.82	269.31	Append to	1219A-27X-1, 0	243.70	276.19

Bold = changes to rmcd of Pälike et al. (2005).

Table T18. Revised offset for composite depth section, Site 1219 (from Pälike et al., 2005).

Core	Depth (mbsf)	Offset (m)	Depth (rmcd)
199-1219A-			
1H	0.00	0.00	0.00
2H	6.00	0.00	6.00
3H	15.50	0.00	15.50
4H	25.00	0.88	25.88
5H	34.50	2.29	36.79
6H	44.00	4.02	48.02
7H	53.50	2.07	55.57
8H	63.00	3.05	66.05
9H	72.50	7.37	79.87
10H	82.00	**9.77**	**91.77**
11H	91.50	**10.57**	**102.07**
12H	101.00	**12.29**	**113.29**
13H	110.50	**16.75**	**127.25**
14H	120.00	**18.61**	**138.61**
15H	129.50	**20.01**	**149.51**
16H	139.00	**21.49**	**160.49**
17H	148.50	**22.49**	**170.99**
18H	158.00	**23.49**	**181.49**
19H	167.50	**24.49**	**191.99**
20H	177.00	**25.49**	**202.49**
21H	186.50	**26.49**	**212.99**
22H	196.00	**27.49**	**223.49**
23H	205.50	**28.49**	**233.99**
24H	215.00	**29.49**	**244.49**
25X	224.50	**30.49**	**254.99**
26X	234.10	**31.49**	**265.59**
27X	243.70	**32.49**	**276.19**
199-1219B-			
2H	21.00	1.56	22.56
3H	30.50	3.35	33.85
4H	40.00	4.41	44.41
5H	49.50	4.90	54.40
6H	59.00	4.34	63.34
7H	68.50	5.98	74.48
8H	78.00	**7.42**	**85.42**
9H	87.50	**9.77**	**97.27**
10H	97.00	**10.36**	**107.36**
11H	106.50	**11.23**	**117.73**
12H	116.00	**12.45**	**128.45**
13H	125.50	**13.45**	**138.95**
14H	135.00	**14.45**	**149.45**
15H	144.50	**16.35**	**160.85**
16H	154.00	**16.81**	**170.81**

Bold = changes to ship mcd.

Table T19. Revised offset for composite depth section, Site 1220.

Core	Depth (mbsf)	Offset (m)	Depth (rmcd)
199-1220A-			
1H	0.00	0.00	0.00
2H	9.50	0.00	9.50
3H	19.00	0.00	19.00
4H	28.50	2.25	30.75
5H	38.00	3.29	41.29
6H	47.50	5.34	52.84
7H	57.00	6.31	63.31
8H	66.50	7.64	74.14
9H	76.00	**8.65**	**84.65**
10H	85.50	**9.61**	**95.11**
11H	95.00	**9.69**	**104.69**
12H	104.50	**14.10**	**118.60**
199-1220B-			
1H	34.00	0.05	34.05
2H	43.50	2.39	45.89
3H	53.00	3.39	56.39
4H	64.50	**5.32**	**69.82**
5H	74.00	**6.67**	**80.67**
6H	83.50	**8.53**	**92.03**
7H	93.00	**10.02**	**103.02**
8H	102.50	**11.45**	**113.95**
9H	112.00	**11.95**	**123.95**
10H	121.50	*11.74*	*133.24*
11H	131.00	*16.30*	*147.30*
12H	140.50	*17.82*	*158.32*
13H	150.00	*17.82*	*167.82*
16X	169.10	*17.82*	*186.92*
18X	187.90	*17.82*	*205.72*
19X	192.40	*17.82*	*210.22*
20X	197.40	*17.82*	*215.22*
199-1220C-			
1H	25.00	–1.25	23.75
2H	60.00	2.17	62.17
3H	69.50	5.54	75.04
4H	79.00	**7.55**	**86.55**
5H	88.50	**8.50**	**97.00**
6H	98.00	**8.85**	**106.85**
7H	107.50	**10.02**	**117.52**
8H	117.00	*10.35*	*127.35*
9H	126.50	*9.17*	*135.67*
10H	136.00	*10.77*	*146.77*
11X	145.50	*12.45*	*157.95*
14X	173.90	*14.85*	*188.75*
16X	193.00	*15.51*	*208.51*

Bold = changes to ship mcd, italics = ship splice, but mcd shifted according to new offsets higher up in the section.

Table T20. Tie points used to create the revised composite depth section (rmcd), Site 1220.

Hole, core, section, interval (cm)	Depth (mbsf)	Depth (rmcd)		Hole, core, section, interval (cm)	Depth (mbsf)	Depth (rmcd)
199-				199-		
1220A-1H-7, 60	9.60	9.60	Tie to	1220A-2H-1, 24	9.70	9.60
1220A-2H-CC, 18	19.33	19.23	Append to	1220A-3H-1, 0	19.00	19.00
1220A-3H-6, 75	26.70	26.70	Tie to	1220C-1H-2, 145	27.95	26.70
1220C-1H-6, 80	33.30	32.05	Tie to	1220A-4H-1, 130	29.80	32.05
1220A-4H-5, 84	35.34	37.59	Tie to	1220B-1H-3, 54	37.54	37.59
1220B-1H-7, 46	42.96	43.01	Tie to	1220A-5H-2, 22	39.72	43.01
1220A-5H-5, 64	44.64	47.93	Tie to	1220B-2H-2, 54	45.54	47.93
1220B-2H-6, 10	51.10	53.49	Tie to	1220A-6H-1, 64.5	48.15	53.49
1220A-6H-5, 70	54.20	59.54	Tie to	1220B-3H-3, 15	56.15	59.54
1220B-3H-7, 30	61.80	65.19	Tie to	1220A-7H-2, 37	58.88	65.19
1220A-7H-6, 60	**65.06**	**71.37**	Tie to	**1220B-4H-2, 5**	**66.05**	**71.37**
1220B-4H-5, 28	**69.88**	**75.20**	Tie to	**1220A-8H-1, 106**	**67.56**	**75.20**
1220A-8H-6, 58	**74.58**	**82.22**	Tie to	**1220B-5H-2, 5**	**75.55**	**82.22**
1220B-5H-4, 148	**79.98**	**86.65**	Tie to	**1220A-9H-2, 50**	**78.00**	**86.65**
1220A-9H-7, 40	**85.40**	**94.05**	Tie to	**1220B-6H-2, 59**	**85.52**	**94.05**
1220B-6H-6, 84	**91.67**	**100.20**	Tie to	**1220C-5H-3, 28**	**100.00**	**100.20**
1220C-5H-5, 52	**94.94**	**103.44**	Tie to	**1220B-7H-1, 42**	**93.42**	**103.44**
1220B-7H-5, 138	**100.38**	**110.40**	Tie to	**1220C-6H-3, 55**	**101.55**	**110.40**
1220C-6H-5, 140	**105.40**	**114.25**	Tie to	**1220B-8H-1, 30**	**102.80**	**114.25**
1220B-8H-5, 23	**108.72**	**120.18**	Tie to	**1220A-12H-2, 8**	**106.08**	**120.18**
1220A-12H-5, 118	**111.68**	**125.78**	Tie to	**1220B-9H-2, 33**	**113.83**	**125.78**
1220B-9H-4, 84	**117.34**	**129.29**	Tie to	**1220C-8H-2, 44**	**118.94**	**129.29**
1220C-8H-6, 140	*125.90*	*136.25*	Tie to	*1220B-10H-3, 8*	*124.52*	*136.26*
1220B-10H-7, 88	*131.32*	*143.06*	Append to	*1220B-11H-1, 0*	*131.00*	*147.30*
1220B-11H-7, 74	*140.74*	*157.04*	Append to	*1220C-11X-1, 0*	*145.50*	*157.95*
1220C-11X-5, 140	*152.90*	*165.35*	Append to	*1220B-13H-1, 0*	*150.00*	*167.82*
1220B-13H-1, 114	*151.14*	*168.96*	Append to	*1220B-16X-1, 0*	*169.10*	*186.92*
1220B-16X-7, 44	*178.54*	*196.36*	Append to	*1220B-18X-1, 0*	*187.90*	*205.72*
1220B-18X-3, 144	*191.66*	*209.48*	Append to	*1220B-19X-1, 0*	*192.40*	*210.22*
1220B-19X-1, 110	*193.50*	*211.32*	Append to	*1220B-20X-1, 0*	*197.40*	*215.22*
1220B-20X-2, 92	*199.82*	*217.64*				

Bold = changes to ship mcd, italics = ship splice, but mcd shifted according to new offsets higher up in the section.

Table T21. Mapping pairs for adjusting cores to the corrected rmcd splice, Site 1220.

Core	Depth (mbsf)	Depth (Corrected rmcd)	Depth Adjusted (corrected rmcd)
199-1220A-			
1H	*0.01*	*0.01*	*0.01*
1H	*9.86*	*9.86*	*9.86*
2H	*9.50*	*9.50*	*9.50*
2H	*19.37*	*19.37*	*19.37*
3H	*19.00*	*19.00*	*19.00*
3H	*26.70*	*26.70*	*26.70*
3H	28.99	28.99	28.85
4H	28.50	30.75	30.75
4H	*29.80*	*32.05*	*32.05*
4H	*35.34*	*37.59*	*37.59*
4H	38.14	40.39	40.39
5H	38.00	41.29	41.29
5H	38.47	41.76	41.79
5H	39.02	42.31	42.23
5H	39.31	42.60	42.49
5H	*39.72*	*43.01*	*43.01*
5H	*44.64*	*47.93*	*47.93*
5H	45.28	48.57	48.31
5H	45.64	48.93	48.63
5H	46.40	49.69	49.23
5H	47.34	50.63	50.05
5H	47.74	51.03	50.39
5H	48.05	51.34	50.70
6H	47.50	52.84	52.84
6H	*48.15*	*53.49*	*53.49*
6H	*54.20*	*59.54*	*59.54*
6H	55.66	61.00	61.00
6H	57.39	62.73	63.00
7H	57.00	63.31	62.85
7H	*58.88*	*65.19*	*65.19*
7H	*65.06*	*71.37*	*71.37*
7H	66.71	73.02	73.02
8H	66.50	74.14	74.14
8H	*67.56*	*75.20*	*75.20*
8H	*74.58*	*82.22*	*82.22*
8H	75.14	82.78	82.97
8H	76.51	84.15	84.34
9H	76.00	84.65	84.65
9H	76.88	85.53	85.53
9H	77.12	85.77	85.95
9H	*78.00*	*86.65*	*86.65*
9H	*85.40*	*94.05*	*94.05*
9H	85.89	94.54	94.54
10H	85.50	95.11	95.11
10H	89.92	99.53	99.53
10H	90.78	100.39	100.39
10H	92.76	102.37	102.06
10H	94.40	104.01	103.62
10H	95.23	104.84	104.45
11H	95.00	104.69	104.69
11H	96.30	105.99	105.88
11H	100.12	109.81	109.81
11H	102.38	112.07	111.61
11H	104.16	113.85	113.47
11H	105.12	114.81	114.81
12H	104.50	118.60	118.40
12H	*106.08*	*120.18*	*120.18*
12H	*111.68*	*125.78*	*125.78*
12H	114.37	128.47	128.30
199-1220B-			
1H	34.00	34.05	34.05
1H	*37.54*	*37.59*	*37.59*
1H	*42.96*	*43.01*	*43.01*
1H	43.47	43.52	43.90
1H	43.47	43.52	43.90
2H	43.50	45.89	45.89
2H	*45.54*	*47.93*	*47.93*
2H	*51.10*	*53.49*	*53.49*
2H	53.59	55.98	55.98
3H	53.00	56.39	56.60
3H	*56.15*	*59.54*	*59.54*
3H	*61.80*	*65.19*	*65.19*
3H	62.59	65.98	65.98
4H	64.50	69.82	69.82
4H	*66.05*	*71.37*	*71.37*
4H	*69.88*	*75.20*	*75.20*
4H	70.68	76.00	76.08
4H	71.88	77.20	77.26
4H	72.64	77.96	78.10
4H	73.73	79.05	79.19
5H	74.00	80.67	80.67
5H	*75.55*	*82.22*	*82.22*
5H	*79.98*	*86.65*	*86.65*
5H	84.06	90.73	90.73
6H	83.50	92.03	92.03
6H	*85.52*	*94.05*	*94.05*
6H	*91.67*	*100.20*	*100.20*
6H	93.32	101.85	101.85
7H	93.00	103.02	103.02
7H	*93.42*	*103.44*	*103.44*
7H	*100.38*	*110.40*	*110.40*
7H	102.96	112.98	112.70
8H	102.50	113.95	113.95
8H	*103.04*	*114.49*	*114.49*
8H	*108.73*	*120.18*	*120.18*
8H	109.20	120.65	120.65
8H	112.39	123.84	123.50
9H	112.00	123.95	123.95
9H	*113.83*	*125.78*	*125.78*
9H	*117.34*	*129.29*	*129.29*
9H	121.23	133.18	133.30
10H	121.50	133.24	133.24
10H	*124.52*	*136.26*	*136.26*
10H	*131.65*	*143.39*	*143.39*
11H	*131.00*	*147.30*	*147.30*
11H	*141.09*	*157.39*	*157.39*
12H	140.50	158.32	158.32
12H	150.56	168.38	168.38
13X	*150.00*	*167.82*	*167.82*
13X	*159.19*	*177.01*	*177.01*
16X	*169.10*	*186.92*	*186.92*
16X	*178.78*	*196.60*	*196.60*
18X	*187.90*	*205.72*	*205.72*
18X	*191.89*	*209.71*	*209.71*
19X	*192.40*	*210.22*	*210.22*
19X	*193.73*	*211.55*	*211.55*
20X	*197.40*	*215.22*	*215.22*
20X	*200.03*	*217.85*	*217.85*
199-1220C-			
1H	25.00	23.75	23.45
1H	26.16	24.91	24.61
1H	*27.95*	*26.70*	*26.70*
1H	*33.30*	*32.05*	*32.05*
1H	35.05	33.80	33.80
2H	60.00	62.17	61.80
2H	62.36	64.53	65.07
2H	63.85	66.02	66.63
2H	66.30	68.47	68.47
2H	68.66	70.83	70.83
3H	69.50	75.04	75.35
3H	71.20	76.74	76.74
3H	72.78	78.32	78.10
3H	75.08	80.62	80.22
3H	79.48	85.02	84.60
4H	79.00	86.55	86.55
4H	88.69	96.24	96.24
5H	88.50	97.00	97.00
5H	*91.70*	*100.20*	*100.20*
5H	*94.94*	*103.44*	*103.44*
5H	98.59	107.09	106.80
6H	98.00	106.85	106.85
6H	*101.55*	*110.40*	*110.40*
6H	*105.64*	*114.49*	*114.49*
6H	105.96	114.81	114.81
6H	107.78	116.63	116.40
7H	107.50	117.52	117.52
7H	108.08	118.10	118.10
7H	108.62	118.64	118.75
7H	109.16	119.18	119.43
7H	109.92	119.94	120.44
7H	111.10	121.12	121.24
7H	112.66	122.68	123.02
7H	115.16	125.18	125.24
7H	116.56	126.58	126.35
7H	117.46	127.48	127.25
8H	117.00	127.35	127.35
8H	*118.94*	*129.29*	*129.29*
8H	*125.91*	*136.26*	*136.26*
8H	126.76	137.11	137.11
9H	126.50	135.67	135.67
9H	136.66	145.83	145.83
10H	136.00	146.77	146.77
10H	145.86	156.63	156.63
11X	145.50	157.95	157.95
11X	153.09	165.54	165.54
14X	173.90	188.75	188.75
14X	182.48	197.33	197.33
16X	193.00	208.51	208.51
16X	193.97	209.48	209.48

Italics = splice tie points.

Table T22. Cleaned magnetic susceptibility and gamma ray attenuation composite records from Site U1331 on rmcd (m revised CCSF-A).

Gamma ray attenuation		Magnetic susceptibility	
Depth (rmcd [m revised CCSF-A])	Density (g/cm^3)	Depth (rmcd [m revised CCSF-A])	(10^{-5})
1.57	1.384	0.07	22.4
1.59	1.382	0.10	21.6
1.62	1.376	0.12	21.6
1.64	1.375	0.15	21.4
1.67	1.386	0.17	21.6
1.69	1.376	0.20	22.2
1.72	1.380	0.22	23.0
1.74	1.373	0.25	24.0
1.77	1.374	0.27	24.8
1.79	1.372	0.29	25.8
1.82	1.378	0.32	26.4
1.84	1.376	0.34	27.0
1.87	1.381	0.37	27.0
1.89	1.374	0.39	27.0
1.92	1.377	0.42	27.4
1.94	1.379	0.44	28.0
1.97	1.372	0.47	28.0
1.99	1.369	0.49	28.4
2.02	1.377	0.51	28.4
2.04	1.383	0.54	28.2
2.07	1.376	0.56	27.8
2.09	1.376	0.59	28.4
2.12	1.388	0.61	28.8
2.14	1.372	0.64	29.0
2.17	1.380	0.66	29.8
2.19	1.389	0.69	31.8
2.22	1.361	0.71	34.0
2.24	1.373	0.73	32.0
2.27	1.392	0.76	36.8
2.29	1.378	0.78	40.4
2.32	1.384	0.81	39.0
2.34	1.381	0.83	40.0
2.37	1.383	0.86	39.0
2.39	1.367	0.88	38.0
2.42	1.374	0.91	38.0
2.44	1.378	0.93	37.0
2.47	1.393	0.96	36.4
2.49	1.399	0.98	36.4
2.52	1.399	1.00	35.6
2.55	1.384	1.03	36.4
2.57	1.395	1.05	36.0
2.60	1.401	1.08	35.6
2.62	1.415	1.10	35.6
2.65	1.401	1.13	35.6
2.67	1.393	1.15	36.0
2.70	1.409	1.18	36.0
2.72	1.400	1.20	35.6
2.75	1.386	1.22	35.6
2.77	1.406	1.25	35.6
2.80	1.411	1.27	35.8
2.82	1.396	1.30	35.0
2.85	1.410	1.32	35.8
2.87	1.394	1.35	35.2
2.90	1.399	1.37	34.6
2.92	1.395	1.40	34.0
2.95	1.399	1.42	34.0
2.97	1.425	1.44	31.0
3.10	1.373	1.47	31.0
3.13	1.388	1.54	30.0
3.15	1.400	1.57	31.2
3.18	1.403	1.59	32.0
3.20	1.406	1.62	32.8
3.23	1.425	1.64	32.8
3.25	1.410	1.67	32.8
3.28	1.398	1.69	32.4
3.30	1.410	1.72	32.4
3.33	1.410	1.74	32.6
3.35	1.412	1.77	32.4
3.38	1.414	1.79	31.8
3.40	1.412	1.82	31.8
3.43	1.406	1.85	31.4
3.45	1.393	1.87	30.6
3.48	1.391	1.90	30.8
3.50	1.373	1.92	30.4
3.53	1.420	1.95	30.2
3.55	1.407	1.97	29.4
3.58	1.400	2.00	29.4
3.60	1.398	2.02	29.0
3.63	1.419	2.05	28.4
3.65	1.400	2.07	29.0
3.68	1.397	2.10	28.2
3.70	1.393	2.12	28.0
3.73	1.397	2.15	27.4
3.75	1.412	2.17	27.6
3.78	1.397	2.20	27.0
3.80	1.387	2.22	27.0
3.83	1.405	2.25	26.8
3.85	1.403	2.27	27.0
3.88	1.395	2.30	26.6
3.90	1.410	2.32	26.6
3.93	1.418	2.35	26.6
3.95	1.410	2.37	26.8
3.98	1.399	2.40	26.6
4.00	1.403	2.42	26.2
		2.45	26.4
4.03	1.416	2.47	26.8
4.05	1.418	2.50	26.4
4.08	1.415	2.52	27.0
4.10	1.413	2.55	27.6
4.13	1.414	2.57	27.6
4.15	1.401	2.60	27.8
4.18	1.413	2.62	28.0
4.20	1.406	2.65	27.8
4.23	1.404	2.67	27.2
4.25	1.415	2.70	27.2
4.28	1.413	2.72	26.4
4.30	1.412	2.75	25.2
4.33	1.406	2.77	25.6
4.35	1.411	2.80	26.2
4.38	1.413	2.83	26.0
4.40	1.416	2.85	26.2
4.43	1.433	2.88	24.8
4.45	1.414	2.90	27.2
4.48	1.406	2.93	27.8
4.50	1.411	2.95	27.6
4.53	1.424	2.98	27.2
4.55	1.419	3.03	24.4
4.58	1.407	3.05	26.8
4.60	1.408	3.07	27.0
4.63	1.415	3.10	26.6
4.65	1.407	3.12	25.6
4.68	1.404	3.15	28.2
4.70	1.409	3.17	29.6
4.73	1.408	3.20	29.4
4.75	1.412	3.22	29.4
4.78	1.398	3.25	29.0
4.80	1.407	3.27	28.8
4.83	1.401	3.29	29.0
4.85	1.407	3.32	28.8
4.88	1.401	3.34	28.4
4.90	1.402	3.37	28.2
4.93	1.403	3.39	27.4
4.95	1.416	3.42	27.0
4.98	1.395	3.44	24.0
5.00	1.405	3.46	25.0
5.03	1.417	3.49	25.4
5.07	1.438	3.51	27.8
5.10	1.430	3.54	27.2
5.12	1.442	3.56	26.4
5.15	1.430	3.59	26.4
5.17	1.404	3.61	26.8
5.20	1.414	3.64	27.0
5.22	1.414	3.66	26.8
5.25	1.430	3.68	26.6
5.28	1.414	3.71	26.4
5.30	1.422	3.73	26.8
5.33	1.419	3.76	26.4
5.35	1.420	3.78	27.0
5.38	1.415	3.81	27.0
5.40	1.410	3.83	27.2
5.43	1.403	3.86	28.4
5.45	1.419	3.88	28.8
5.48	1.419	3.90	30.0
5.50	1.413	3.93	30.8
5.53	1.409	3.95	30.6
5.55	1.424	3.98	30.0
5.58	1.424	4.00	30.0
5.60	1.408		
5.63	1.422	4.03	30.8
5.65	1.419	4.05	31.9
5.68	1.421	4.08	32.2
5.70	1.428	4.10	33.0
5.73	1.428	4.13	33.0
5.75	1.430	4.15	33.0
5.78	1.414	4.18	33.3
5.80	1.428	4.20	33.3
5.83	1.402	4.23	33.7
5.85	1.399	4.25	34.8
5.88	1.412	4.28	34.8
5.90	1.403	4.30	35.2
5.93	1.412	4.33	35.2
5.95	1.410	4.35	34.8
5.98	1.400	4.38	35.2
6.00	1.412	4.40	35.2
6.03	1.433	4.43	35.2
6.05	1.431	4.45	35.2
6.08	1.406	4.48	34.1
6.10	1.416	4.50	34.1
6.13	1.417	4.53	34.1
6.15	1.433	4.55	34.1
6.18	1.430	4.58	34.4
6.20	1.428	4.60	35.2
6.23	1.430	4.63	34.8
6.25	1.422	4.65	34.8
6.28	1.413	4.68	34.8
6.30	1.420	4.70	34.4
6.33	1.420	4.73	34.4
6.35	1.417	4.75	34.1
6.38	1.401	4.78	34.4
6.40	1.436	4.80	34.8
6.43	1.415	4.83	34.4
6.45	1.409	4.85	34.4
6.48	1.405	4.88	34.4
6.50	1.401	4.90	35.2
6.53	1.414	4.93	35.5

Only a portion of this table appears here. The complete table is available in **ASCII.**

Table T23. Cleaned magnetic susceptibility and gamma ray attenuation composite records from Site U1332 on rmcd (m revised CCSF-A).

Gamma ray attenuation		Magnetic susceptibility	
Depth (rmcd [m revised CCSF-A])	Density (g/cm^3)	Depth (rmcd [m revised CCSF-A])	(10^{-5})
1.00	1.233	1.03	30.8
1.00	1.257	1.05	30.4
1.03	1.251	1.08	30.4
1.05	1.229	1.10	30.4
1.05	1.243	1.13	30.4
1.08	1.237	1.15	30.4
1.10	1.245	1.18	29.7
1.10	1.260	1.20	29.3
1.13	1.245	1.23	28.6
1.15	1.240	1.25	28.9
1.15	1.233	1.28	28.2
1.18	1.253	1.30	27.5
1.20	1.233	1.33	28.2
1.20	1.243	1.35	28.6
1.23	1.233	1.38	28.6
1.25	1.213	1.40	28.9
1.25	1.237	1.43	29.3
1.28	1.220	1.45	28.6
1.30	1.240	1.48	27.5
1.30	1.230	1.52	23.1
1.30	1.212	1.57	24.5
1.33	1.232	1.59	26.0
1.33	1.243	1.62	27.1
1.35	1.231	1.64	28.2
1.35	1.237	1.67	27.1
1.35	1.234	1.69	25.6
1.38	1.248	1.72	25.3
1.38	1.247	1.74	24.5
1.40	1.259	1.77	23.8
1.40	1.244	1.79	25.3
1.40	1.245	1.82	27.5
1.43	1.252	1.84	28.9
1.43	1.249	1.87	29.7
1.45	1.231	1.89	30.0
1.45	1.219	1.92	30.8
1.45	1.248	1.94	31.9
1.54	1.234	1.97	31.9
1.56	1.222	1.99	32.6
1.57	1.237	2.02	32.6
1.57	1.212	2.04	32.2
1.58	1.245	2.07	31.9
1.59	1.217	2.09	31.9
1.61	1.247	2.12	32.2
1.62	1.239	2.14	32.6
1.62	1.241	2.17	33.0
1.63	1.242	2.19	32.6
1.64	1.242	2.22	32.6
1.66	1.241	2.24	31.9
1.67	1.244	2.27	32.2
1.67	1.229	2.29	30.8
1.68	1.220	2.32	28.9
1.69	1.226	2.34	25.3
1.71	1.238	2.37	23.4
1.72	1.230	2.39	22.0
1.72	1.232	2.42	15.8
1.73	1.236	2.44	18.0
1.74	1.226	2.47	13.9
1.76	1.260	2.49	16.1
1.77	1.228	2.52	18.0
1.77	1.237	2.54	19.8
1.78	1.244	2.57	19.8
1.79	1.252	2.59	22.0
1.81	1.249		
1.82	1.236	2.62	22.0
1.82	1.246	2.65	24.2
1.83	1.272	2.67	25.0
1.84	1.236	2.70	26.4
1.86	1.240	2.72	26.8
1.87	1.238	2.75	26.4
1.87	1.260	2.77	25.0
1.88	1.247	2.80	24.2
1.89	1.257	2.82	24.0
1.91	1.246	2.85	24.0
1.92	1.236	2.87	22.6
1.94	1.249	2.90	18.6
1.94	1.277	2.92	16.6
1.96	1.238	2.95	17.0
1.97	1.258	2.97	17.4
1.99	1.255	3.00	17.0
1.99	1.258	3.08	21.2
2.01	1.261	3.10	23.6
2.02	1.264	3.13	24.4
2.04	1.257	3.15	24.0
2.04	1.241	3.18	23.4
2.06	1.272	3.20	22.4
2.07	1.259	3.23	22.4
2.09	1.246	3.25	24.6
2.09	1.259	3.28	26.0
2.11	1.268	3.30	26.4
2.12	1.262	3.33	26.0
2.12	1.250	3.35	25.0
2.14	1.247	3.38	24.4
2.14	1.266	3.40	24.0
2.16	1.237	3.43	23.4
2.17	1.253	3.45	23.0
2.17	1.256	3.48	21.4
2.19	1.258	3.51	19.2
2.19	1.241	3.53	17.6
2.21	1.262	3.56	16.6
2.22	1.259	3.58	17.0
2.22	1.248	3.61	19.6
2.24	1.252	3.63	20.8
2.24	1.254	3.66	19.6
2.26	1.261	3.68	19.0
2.27	1.270	3.71	19.0
2.27	1.264	3.73	18.4
2.29	1.242	3.76	17.0
2.29	1.259	3.78	14.0
2.31	1.256	3.81	13.0
2.32	1.261	3.83	13.8
2.32	1.254	3.86	13.4
2.34	1.236	3.88	13.0
2.34	1.233	3.91	12.0
2.36	1.236	3.93	11.8
2.37	1.238	3.96	13.0
2.37	1.236	3.99	13.8
2.39	1.254	4.01	10.8
2.39	1.250	4.04	10.0
2.41	1.238	4.06	10.8
2.42	1.249	4.09	14.2
2.42	1.230	4.11	17.6
2.44	1.253	4.14	18.2
2.44	1.250	4.16	18.4
2.46	1.250	4.19	18.8
2.47	1.245	4.21	19.0
2.49	1.252	4.24	19.0
2.49	1.244	4.26	20.0
2.51	1.245	4.29	20.6
2.52	1.249	4.31	21.2
2.54	1.236	4.34	21.8
2.54	1.250	4.36	22.2
2.56	1.235	4.39	22.6
2.57	1.230	4.41	22.8
2.59	1.231	4.44	22.6
2.59	1.231	4.47	22.0
		4.49	22.4
2.62	1.230	4.52	21.4
2.65	1.210	4.59	20.6
2.67	1.222	4.62	20.0
2.70	1.240	4.64	20.4
2.72	1.239	4.67	22.0
2.75	1.222	4.69	23.0
2.77	1.209	4.72	22.8
2.80	1.217	4.74	21.6
2.82	1.225	4.77	22.4
2.85	1.225	4.79	22.8
2.87	1.214	4.82	23.4
2.90	1.226	4.84	23.4
2.92	1.194	4.87	23.6
2.95	1.212	4.89	23.6
2.97	1.206	4.92	23.2
3.07	1.204	4.94	24.0
3.10	1.237	4.97	25.0
3.13	1.228	4.99	25.8
3.15	1.217	5.02	26.0
3.18	1.210	5.04	27.2
3.20	1.219	5.07	28.6
3.23	1.217	5.09	28.4
3.25	1.231	5.12	29.4
3.28	1.243	5.14	29.6
3.30	1.244	5.17	29.2
3.33	1.225	5.19	30.2
3.35	1.232	5.22	30.2
3.38	1.224	5.24	30.0
3.40	1.227	5.27	29.4
3.43	1.220	5.29	29.0
3.45	1.246	5.32	29.0
3.48	1.249	5.34	29.2
3.50	1.228	5.37	29.0
3.53	1.256	5.39	28.2
3.56	1.239	5.42	27.0
3.58	1.252	5.44	25.0
3.61	1.266	5.47	23.8
3.63	1.255	5.49	20.8
3.66	1.235	5.52	21.4
3.68	1.210	5.54	23.8
3.71	1.240	5.57	25.0
3.73	1.224	5.60	25.0
3.76	1.213	5.62	23.6
3.78	1.226	5.65	22.0
3.81	1.224	5.67	21.2
3.83	1.249	5.70	21.0
3.86	1.237	5.72	18.4
3.88	1.232	5.75	16.2
3.91	1.222	5.77	16.0
3.93	1.231	5.80	15.6
3.96	1.223	5.82	16.6
3.98	1.240	5.85	20.6
4.01	1.223	5.87	24.0
4.04	1.205	5.90	26.2
4.06	1.213	5.92	27.0
4.09	1.218	5.95	27.0
4.11	1.223	5.97	27.6
4.14	1.230	6.00	27.8
4.16	1.218	6.07	24.6

Only a portion of this table appears here. The complete table is available in **ASCII.**

Table T24. Cleaned magnetic susceptibility and gamma ray attenuation composite records from Site U1333 on rmcd (m revised CCSF-A).

Gamma ray attenuation		Magnetic susceptibility	
Depth (rmcd [m revised CCSF-A])	Density (g/cm^3)	Depth (rmcd [m revised CCSF-A])	(10^{-5})
0.00	0.769	0.03	28.0
0.03	1.080	0.05	33.0
0.05	1.149	0.08	33.0
0.08	1.061	0.10	36.2
0.10	1.059	0.13	40.0
0.13	1.149	0.15	40.8
0.15	1.145	0.18	41.0
0.18	1.141	0.20	41.0
0.20	1.135	0.23	41.0
0.23	1.149	0.25	41.4
0.25	1.146	0.28	41.8
0.28	1.152	0.30	42.6
0.30	1.158	0.33	42.2
0.33	1.125	0.35	42.4
0.35	1.165	0.38	42.0
0.38	1.157	0.40	41.0
0.40	1.162	0.43	40.4
0.43	1.147	0.45	39.4
0.45	1.157	0.48	38.8
0.48	1.156	0.50	38.4
0.50	1.144	0.53	38.8
0.53	1.162	0.55	39.6
0.55	1.170	0.60	38.4
0.58	1.169	0.63	38.0
0.60	1.164	0.65	38.0
0.63	1.150	0.68	38.0
0.65	1.154	0.70	37.6
0.68	1.172	0.73	37.6
0.70	1.159	0.75	37.6
0.73	1.172	0.78	37.8
0.75	1.154	0.80	37.2
0.78	1.150	0.83	38.0
0.80	1.163	0.85	38.0
0.83	1.163	0.88	37.2
0.85	1.162	0.90	37.4
0.88	1.162	0.93	37.4
0.90	1.153	0.95	37.0
0.93	1.158	0.98	36.8
0.95	1.179	1.00	37.2
0.98	1.156	1.03	37.2
1.00	1.176	1.05	37.0
1.03	1.165	1.08	36.8
1.05	1.164	1.10	35.2
1.08	1.158	1.13	34.4
1.10	1.174	1.15	33.0
1.13	1.169	1.18	32.2
1.15	1.183	1.20	32.0
1.18	1.153	1.23	31.0
1.20	1.161	1.25	30.2
1.23	1.157	1.28	30.2
1.25	1.163	1.30	29.6
1.28	1.179	1.33	29.4
1.30	1.166	1.35	29.0
1.33	1.155	1.38	30.0
1.35	1.168	1.40	29.8
1.38	1.159	1.43	29.0
1.40	1.157	1.45	27.0
1.43	1.165	1.53	26.0
1.45	1.157	1.55	27.6
1.48	1.185	1.58	28.4
2.51	1.428	1.60	29.2
2.53	1.441	1.63	29.8
2.56	1.445	1.65	29.6
2.58	1.457	1.68	29.2
2.61	1.482	1.70	28.6
2.63	1.454	1.73	27.8
2.66	1.471	1.76	27.6
2.68	1.482	1.78	27.6
2.71	1.482	1.81	27.0
2.73	1.491	1.83	27.8
2.76	1.472	1.86	28.2
2.78	1.457	1.88	27.0
2.81	1.480	1.91	25.6
2.83	1.487	1.93	25.0
2.86	1.513	1.96	24.2
2.88	1.556	1.98	24.8
2.91	1.541	2.01	23.6
2.93	1.544	2.03	22.0
2.96	1.554	2.06	21.4
2.98	1.601	2.08	21.2
3.03	1.607	2.11	21.8
3.05	1.596	2.13	21.2
3.08	1.568	2.16	20.2
3.10	1.550	2.18	20.6
3.13	1.579	2.21	20.2
3.15	1.560	2.23	20.0
3.18	1.558	2.26	19.8
3.20	1.584	2.28	19.2
3.23	1.585	2.31	20.6
3.25	1.576	2.33	21.4
3.28	1.551	2.36	21.2
3.30	1.561	2.38	20.4
3.33	1.543	2.41	17.6
3.35	1.532	2.43	13.8
3.38	1.501	2.46	12.0
3.40	1.470	2.48	12.0
3.43	1.486	2.51	12.0
3.45	1.463	2.53	12.2
3.48	1.459	2.56	12.4
3.50	1.469	2.58	13.0
3.53	1.466	2.61	13.2
3.55	1.491	2.63	14.4
3.58	1.504	2.66	15.8
3.60	1.492	2.68	16.2
3.63	1.502	2.71	17.8
3.65	1.516	2.73	18.8
3.68	1.503	2.76	19.0
3.70	1.498	2.78	19.0
3.73	1.520	2.81	18.2
3.75	1.504	2.83	17.8
3.78	1.496	2.86	16.4
3.80	1.449	2.88	15.4
3.83	1.475	2.91	16.0
3.85	1.439	2.93	15.4
3.88	1.454	2.96	14.0
3.90	1.424	2.98	11.8
3.93	1.446	3.00	8.4
3.95	1.427	3.03	10.0
3.98	1.419	3.05	9.8
4.00	1.422	3.08	9.2
4.03	1.432	3.10	9.8
4.05	1.452	3.13	9.8
4.08	1.462	3.15	10.2
4.10	1.473	3.18	10.4
4.13	1.523	3.20	10.6
4.15	1.477	3.23	10.6
4.18	1.544	3.25	10.6
4.20	1.543	3.28	10.8
4.23	1.531	3.30	10.2
4.25	1.531	3.33	11.6
4.28	1.514	3.35	12.6
4.30	1.519	3.38	14.4
4.33	1.495	3.40	16.0
4.35	1.496	3.43	16.0
4.38	1.467	3.45	16.0
4.40	1.470	3.48	15.8
4.43	1.460	3.50	15.2
4.45	1.446	3.53	15.0
4.48	1.453	3.55	15.0
4.55	1.456	3.58	14.6
4.57	1.483	3.60	14.8
4.60	1.469	3.63	14.4
4.62	1.451	3.65	13.8
4.65	1.426	3.68	14.0
4.67	1.424	3.70	14.0
4.70	1.417	3.73	14.8
4.72	1.396	3.75	15.6
4.75	1.362	3.78	16.0
4.82	1.309	3.80	17.4
4.85	1.328	3.83	19.0
4.87	1.271	3.85	19.0
4.90	1.284	3.88	19.8
4.92	1.274	3.90	21.0
4.95	1.262	3.93	22.0
4.97	1.279	3.95	21.6
5.00	1.270	3.98	21.2
5.02	1.276	4.00	21.6
5.05	1.288	4.03	21.0
5.07	1.301	4.05	20.4
5.10	1.293	4.08	19.0
5.12	1.279	4.10	17.2
5.15	1.279	4.13	16.4
5.17	1.267	4.15	15.0
5.20	1.253	4.18	14.8
5.22	1.249	4.20	13.6
5.25	1.213	4.23	13.2
5.27	1.231	4.25	13.8
5.30	1.257	4.28	14.0
5.32	1.251	4.30	14.8
5.35	1.246	4.33	15.4
5.37	1.264	4.35	16.4
5.40	1.260	4.38	17.2
5.42	1.261	4.40	17.4
5.45	1.263	4.43	18.0
5.47	1.261	4.45	18.2
5.50	1.242	4.48	18.8
5.52	1.271	4.55	19.0
5.55	1.264	4.57	19.6
5.57	1.289	4.60	20.2
5.60	1.311	4.62	20.8
5.62	1.304	4.65	22.0
5.65	1.325	4.67	22.8
5.67	1.350	4.70	24.0
5.70	1.327	4.72	27.0
5.72	1.325	4.75	28.2
5.75	1.324	4.77	29.0
5.77	1.325	4.80	31.4
5.80	1.328	4.82	32.0
5.82	1.341	4.85	32.0
5.85	1.328	4.87	34.0
5.87	1.302	4.90	36.4
5.90	1.300	4.92	37.0
5.92	1.287	4.95	38.2
5.95	1.288	4.97	39.2
5.97	1.284	5.00	38.6

Only a portion of this table appears here. The complete table is available in **ASCII.**

Table T25. Cleaned magnetic susceptibility and gamma ray attenuation composite records from Site U1334 on rmcd (m revised CCSF-A).

Gamma ray attenuation		Magnetic susceptibility	
Depth (rmcd [m revised CCSF-A])	Density (g/cm^3)	Depth (rmcd [m revised CCSF-A])	(10^{-5})
0.13	1.202	0.03	15.8
0.15	1.176	0.05	20.5
0.18	1.178	0.08	19.8
0.20	1.178	0.10	19.0
0.23	1.200	0.13	20.5
0.25	1.187	0.15	20.9
0.28	1.190	0.18	22.3
0.30	1.206	0.20	22.3
0.33	1.204	0.23	22.7
0.35	1.186	0.25	23.1
0.38	1.228	0.28	24.2
0.40	1.216	0.30	23.8
0.43	1.203	0.33	24.5
0.45	1.228	0.35	24.9
0.48	1.208	0.38	24.9
0.50	1.231	0.40	24.9
0.53	1.204	0.43	25.3
0.55	1.230	0.45	27.5
0.58	1.235	0.48	26.4
0.60	1.189	0.50	25.3
0.63	1.222	0.53	26.0
0.65	1.192	0.55	26.0
0.68	1.216	0.58	25.3
0.70	1.191	0.60	24.9
0.73	1.197	0.63	24.5
0.75	1.175	0.65	23.1
0.78	1.224	0.68	22.3
0.80	1.191	0.70	23.1
0.83	1.202	0.73	23.4
0.85	1.201	0.75	23.1
0.88	1.196	0.78	23.1
0.90	1.231	0.80	23.1
0.93	1.231	0.83	23.4
0.95	1.211	0.85	24.2
0.98	1.204	0.88	23.8
1.00	1.215	0.90	23.4
1.03	1.223	0.93	23.1
1.05	1.227	0.95	23.1
1.08	1.231	0.98	23.1
1.10	1.219	1.00	23.8
1.13	1.237	1.03	24.2
1.15	1.219	1.05	24.5
1.18	1.224	1.08	24.9
1.20	1.222	1.10	24.5
1.23	1.198	1.15	24.9
1.25	1.211	1.18	24.5
1.28	1.198	1.20	24.2
1.30	1.216	1.23	23.4
1.33	1.219	1.25	23.1
1.35	1.213	1.28	24.2
1.38	1.193	1.30	23.1
1.40	1.206	1.33	24.2
1.56	1.216	1.35	23.4
1.59	1.222	1.38	23.1
1.61	1.218	1.40	22.0
1.64	1.230	1.43	21.2
1.66	1.228	1.45	20.1
1.69	1.222	1.54	20.1
1.71	1.223	1.56	21.2
1.74	1.212	1.59	20.9
1.76	1.214	1.61	19.8
1.79	1.207	1.64	20.5
1.81	1.222	1.66	20.1
1.84	1.230	1.69	20.5
1.86	1.206	1.71	20.5
1.89	1.232	1.74	20.5
1.91	1.215	1.76	20.9
1.94	1.212	1.79	22.3
1.96	1.224	1.81	24.2
1.99	1.236	1.84	24.9
2.01	1.214	1.86	24.9
2.04	1.221	1.89	25.3
2.06	1.240	1.91	25.3
2.09	1.227	1.94	25.3
2.11	1.216	1.96	24.9
2.14	1.226	1.99	24.9
2.16	1.217	2.01	24.5
2.19	1.209	2.04	24.2
2.21	1.206	2.06	23.4
2.24	1.220	2.09	22.7
2.26	1.241	2.11	23.4
2.29	1.231	2.14	23.1
2.31	1.199	2.16	22.7
2.34	1.202	2.19	22.3
2.36	1.221	2.21	22.7
2.39	1.203	2.24	22.0
2.41	1.209	2.26	22.0
2.44	1.212	2.29	20.9
2.46	1.213	2.31	20.5
2.49	1.216	2.34	20.5
2.51	1.212	2.36	21.6
2.54	1.222	2.39	20.9
2.56	1.219	2.41	20.9
2.59	1.227	2.44	21.2
2.61	1.209	2.46	20.9
2.64	1.203	2.49	20.1
2.66	1.208	2.51	20.1
2.69	1.216	2.54	20.9
2.71	1.217	2.56	19.8
2.74	1.211	2.59	19.0
2.76	1.199	2.61	18.7
2.79	1.224	2.64	19.0
2.81	1.234	2.66	19.4
2.84	1.224	2.69	19.8
2.86	1.244	2.71	20.9
2.89	1.239	2.74	22.3
2.91	1.265	2.76	23.1
3.08	1.207	2.79	23.8
3.11	1.248	2.81	24.9
3.13	1.205	2.84	27.5
3.16	1.241	2.86	29.3
3.18	1.238	2.89	29.3
3.21	1.257	2.91	27.8
3.23	1.238	3.03	28.6
3.26	1.233	3.06	29.7
3.28	1.240	3.08	31.1
3.31	1.241	3.11	30.8
3.33	1.241	3.13	30.8
3.36	1.256	3.16	30.8
3.38	1.239	3.18	30.0
3.41	1.268	3.21	29.7
3.43	1.267	3.23	30.4
3.46	1.260	3.26	29.3
3.48	1.258	3.28	27.5
3.51	1.265	3.31	26.4
3.53	1.248	3.33	25.6
3.56	1.248	3.36	23.1
3.58	1.233	3.38	23.1
3.61	1.238	3.41	25.3
3.63	1.259	3.43	26.7
3.66	1.262	3.46	24.9
3.68	1.255	3.48	24.2
3.71	1.254	3.51	23.4
3.73	1.260	3.53	23.1
3.76	1.230	3.56	23.8
3.78	1.223	3.58	24.2
3.81	1.212	3.61	24.2
3.83	1.219	3.63	24.2
3.86	1.215	3.66	24.2
3.88	1.212	3.68	25.3
3.91	1.214	3.71	28.2
3.93	1.231	3.73	31.1
3.96	1.210	3.76	33.0
3.98	1.224	3.78	33.0
4.01	1.215	3.81	33.0
4.03	1.233	3.83	33.0
4.06	1.227	3.86	33.3
4.08	1.225	3.88	33.7
4.11	1.210	3.91	34.1
4.13	1.218	3.93	34.1
4.16	1.229	3.96	34.1
4.18	1.214	3.98	34.1
4.21	1.210	4.01	34.8
4.23	1.220	4.03	35.5
4.26	1.221	4.06	35.5
4.28	1.216	4.08	35.2
4.31	1.208	4.11	34.8
4.33	1.219	4.13	34.8
4.36	1.230	4.16	34.8
4.38	1.227	4.18	35.2
4.41	1.219	4.21	35.2
4.43	1.232	4.23	35.5
4.46	1.216	4.26	36.3
4.48	1.253	4.31	35.9
4.54	1.231	4.33	36.3
4.57	1.227	4.36	37.0
4.59	1.240	4.38	36.6
4.62	1.220	4.41	37.4
4.64	1.207	4.43	38.1
4.67	1.216	4.46	37.4
4.69	1.222	4.54	37.4
4.72	1.198	4.57	38.5
4.74	1.201	4.59	38.1
4.77	1.206	4.64	36.3
4.79	1.203	4.67	35.5
4.82	1.220	4.69	35.2
4.84	1.210	4.72	34.8
4.87	1.218	4.74	34.8
4.89	1.221	4.77	34.1
4.92	1.219	4.79	33.7
4.94	1.222	4.82	33.7
4.97	1.234	4.84	34.1
4.99	1.230	4.87	34.4
5.02	1.214	4.89	34.8
5.04	1.224	4.92	34.1
5.07	1.218	4.94	34.4
5.09	1.224	4.97	35.2
5.12	1.225	4.99	34.8
5.14	1.221	5.02	34.4
5.17	1.229	5.04	34.1
5.19	1.226	5.07	34.4
5.22	1.222	5.09	35.2
5.24	1.219	5.12	35.9
5.27	1.225	5.14	36.3
5.29	1.222	5.17	35.9

Only a portion of this table appears here. The complete table is available in **ASCII.**

Table T26. Cleaned virtual geomagnetic pole latitude, magnetic susceptibility, and gamma ray attenuation from Site 1218 on corrected rmcd.

Virtual geomagnetic pole		Gamma ray attenuation		Magnetic susceptibility	
Depth (corrected rmcd)	Latitude	Depth (corrected rmcd)	Density (g/cm^3)	Depth (corrected rmcd)	(10^{-6})
0.65	–52.4	0.42	1.090	0.42	19.4
0.70	–42.5	0.44	1.067	0.44	20.0
0.75	–35.4	0.46	1.091	0.46	20.5
0.80	–27.4	0.48	1.114	0.48	20.7
0.85	–25.8	0.50	1.098	0.50	20.5
0.90	–28.3	0.52	1.081	0.52	20.4
0.95	–29.6	0.54	1.092	0.54	21.0
1.00	–15.2	0.56	1.104	0.56	22.0
1.05	–13.6	0.58	1.103	0.58	22.4
1.10	–19.3	0.60	1.100	0.60	22.2
1.15	–23.0	0.64	1.079	0.62	21.7
1.20	–28.2	0.68	1.058	0.64	18.4
1.25	–25.7	0.70	1.054	0.66	18.5
1.30	–21.4	0.72	1.053	0.68	19.8
1.35	–25.8	0.74	1.078	0.70	21.3
1.40	–30.4	0.76	1.104	0.72	22.1
1.45	22.6	0.78	1.107	0.74	22.1
1.55	–16.4	0.80	1.107	0.76	22.3
1.60	–9.4	0.82	1.111	0.78	22.7
1.65	–6.7	0.84	1.116	0.80	23.0
1.70	–11.5	0.86	1.114	0.82	23.0
1.75	–9.1	0.88	1.111	0.84	23.1
1.80	–4.9	0.90	1.092	0.86	23.2
1.85	–8.7	0.92	1.074	0.88	23.0
1.90	–8.9	0.94	1.090	0.90	22.6
1.95	–13.2	0.96	1.108	0.92	22.4
2.00	–8.8	0.98	1.124	0.94	22.3
2.05	–4.7	1.00	1.138	0.96	22.5
2.10	–10.2	1.02	1.117	0.98	22.7
2.15	–8.3	1.04	1.093	1.00	22.6
2.20	–7.1	1.06	1.086	1.02	22.2
2.25	–9.2	1.08	1.081	1.04	21.4
2.30	–6.6	1.10	1.090	1.06	20.7
2.35	–2.2	1.12	1.101	1.08	20.7
2.40	–5.4	1.14	1.108	1.10	20.7
2.45	–10.7	1.16	1.114	1.12	21.0
2.50	–8.3	1.18	1.100	1.14	20.7
2.55	–4.3	1.20	1.087	1.16	19.7
2.60	–7.4	1.22	1.093	1.18	19.6
2.65	–15.7	1.24	1.099	1.20	21.0
2.70	–15.4	1.26	1.086	1.22	22.3
2.75	–10.5	1.28	1.072	1.24	23.0
2.80	–11.5	1.30	1.089	1.26	23.6
2.85	–10.8	1.32	1.108	1.28	23.8
2.90	–9.0	1.34	1.117	1.30	23.5
2.95	–3.5	1.36	1.125	1.32	23.1
3.05	–13.1	1.58	1.136	1.34	23.0
3.10	–12.2	1.60	1.113	1.56	23.2
3.15	–13.3	1.62	1.090	1.58	23.8
3.20	–7.1	1.64	1.091	1.60	24.2
3.25	–9.0	1.66	1.094	1.62	24.3
3.30	–14.6	1.68	1.103	1.64	24.7
3.35	–8.8	1.70	1.099	1.66	24.1
3.40	–9.5	1.72	1.104	1.68	24.6
3.45	–12.7	1.74	1.119	1.70	25.0
3.50	–12.7	1.76	1.122	1.72	25.5
3.55	–38.2	1.78	1.112	1.74	26.5
3.60	–10.4	1.80	1.106	1.76	27.6
3.65	–5.9	1.82	1.107	1.78	28.1
3.70	–3.7	1.84	1.110	1.80	27.2
3.75	–2.3	1.86	1.113	1.82	26.6
3.80	–1.6	1.88	1.108	1.84	26.8
3.85	2.0	1.90	1.103	1.86	27.3
3.90	3.1	1.92	1.102	1.88	27.2
3.95	3.5	1.94	1.101	1.90	26.4
4.00	3.7	1.96	1.099	1.92	25.4
4.05	3.3	1.98	1.100	1.94	24.8
4.10	5.6	2.00	1.102	1.96	24.6
4.15	31.2	2.02	1.101	1.98	24.6
4.20	44.4	2.04	1.108	2.00	25.1
4.25	16.1	2.06	1.123	2.02	25.9
4.30	8.0	2.08	1.131	2.04	26.2
4.35	6.2	2.10	1.123	2.06	26.5
4.40	6.9	2.12	1.119	2.08	26.9
4.55	9.2	2.14	1.120	2.10	27.1
4.60	20.5	2.16	1.121	2.12	27.4
4.65	–1.9	2.18	1.119	2.14	27.3
4.70	–8.2	2.20	1.119	2.16	27.1
4.75	–8.9	2.22	1.117	2.18	27.0
4.80	–6.4	2.24	1.099	2.20	26.3
4.85	–4.6	2.26	1.079	2.22	25.3
4.90	–8.1	2.28	1.088	2.24	24.3
4.95	–1.0	2.30	1.097	2.26	23.6
5.00	1.8	2.32	1.101	2.28	23.9
5.05	7.9	2.34	1.102	2.30	24.3
5.10	3.5	2.36	1.097	2.32	24.6
5.15	5.7	2.38	1.100	2.34	24.4
5.20	6.4	2.40	1.111	2.36	24.1
5.25	5.1	2.42	1.110	2.38	24.4
5.30	4.0	2.44	1.106	2.40	24.9
5.35	4.6	2.46	1.111	2.42	25.7
5.40	3.6	2.48	1.118	2.44	26.3
5.45	4.3	2.50	1.125	2.46	26.7
5.50	5.7	2.52	1.123	2.48	27.2
5.55	8.0	2.54	1.111	2.50	27.6
5.60	9.9	2.56	1.113	2.52	27.6
5.65	7.2	2.58	1.127	2.54	27.6
5.70	8.9	2.60	1.124	2.56	27.7
5.75	15.0	2.62	1.113	2.58	27.4
5.80	15.5	2.64	1.110	2.60	27.2
5.85	15.6	2.66	1.106	2.62	26.9
5.90	18.2	2.68	1.111	2.64	26.8
5.95	29.7	2.70	1.119	2.66	26.8
6.05	5.9	2.72	1.116	2.68	26.6
6.10	6.3	2.74	1.113	2.70	26.3
6.15	6.3	2.76	1.114	2.72	25.9
6.20	6.0	2.78	1.117	2.74	25.9
6.25	2.0	2.80	1.118	2.76	26.1
6.30	3.2	2.82	1.116	2.78	26.4
6.35	6.0	2.84	1.108	2.80	26.6
6.40	9.4	2.86	1.105	2.82	26.3
6.45	12.2	2.88	1.094	2.84	25.7
6.50	12.9	2.90	1.093	2.86	25.5
6.55	8.7	3.04	1.144	2.88	25.2
6.61	5.2	3.06	1.144	2.90	24.7
		3.08	1.139	2.92	24.5
6.61	–45.7	3.10	1.133	3.02	26.0
6.66	–85.0	3.12	1.128	3.04	26.2
6.71	–75.9	3.14	1.108	3.06	26.2
6.76	–65.9	3.16	1.097	3.08	26.3
6.81	–74.7	3.18	1.099	3.10	26.5
6.86	–72.3	3.20	1.106	3.12	26.4
6.91	–73.0	3.22	1.106	3.14	26.1
6.96	–68.4	3.24	1.107	3.16	26.0
7.01	–70.2	3.26	1.114	3.18	25.6
7.06	–67.6	3.28	1.119	3.20	25.3

Only a portion of this table appears here. The complete table is available in **ASCII.**

Table T27. Cleaned virtual geomagnetic pole latitude, magnetic susceptibility, and gamma ray attenuation from Site 1219 on corrected rmcd.

Virtual geomagnetic pole		Gamma ray attenuation		Magnetic susceptibility	
Depth (rmcd)	Latitude	Depth (rmcd)	Density (g/cm^3)	Depth (rmcd)	(10^{-6})
0.45	70.9	0.68	1.096	0.68	24.2
0.50	64.8	0.70	1.100	0.70	24.0
0.55	60.6	0.72	1.104	0.72	23.9
0.60	53.2	0.74	1.102	0.74	23.5
0.65	54.2	0.76	1.100	0.76	23.1
0.70	59.4	0.78	1.084	0.78	22.9
0.75	66.1	0.80	1.067	0.80	22.8
0.80	53.6	1.00	1.080	0.82	22.9
0.85	49.1	1.02	1.081	0.98	23.3
0.90	60.2	1.04	1.083	1.00	22.8
1.00	–76.4	1.06	1.098	1.02	22.5
1.05	–81.2	1.08	1.114	1.04	22.6
1.10	–84.2	1.10	1.113	1.06	23.1
1.15	–87.1	1.12	1.110	1.08	23.9
1.20	62.2	1.14	1.100	1.10	24.2
1.25	50.9	1.16	1.090	1.12	24.2
1.30	–81.7	1.18	1.084	1.14	24.4
1.35	–82.1	1.20	1.078	1.16	24.4
1.40	–80.3	1.22	1.085	1.18	24.3
1.45	–80.4	1.24	1.093	1.20	24.5
1.55	–69.5	1.26	1.102	1.22	24.6
1.60	–72.6	1.28	1.111	1.24	24.3
1.65	–78.4	1.30	1.108	1.26	24.2
1.70	–72.6	1.32	1.103	1.28	24.5
1.75	–70.9	1.34	1.090	1.30	24.7
1.80	–70.7	1.36	1.076	1.32	24.7
1.85	–66.1	1.38	1.076	1.34	24.8
1.90	–67.6	1.40	1.076	1.36	24.6
1.95	–73.4	1.58	1.084	1.38	24.6
2.00	–83.7	1.60	1.090	1.40	24.7
2.05	–79.2	1.62	1.096	1.42	24.6
2.10	46.4	1.64	1.084	1.56	24.6
2.15	77.6	1.66	1.072	1.58	24.9
2.20	66.8	1.68	1.077	1.60	25.0
2.25	–48.8	1.70	1.084	1.62	24.7
2.30	–74.9	1.72	1.091	1.64	24.1
2.35	–77.5	1.74	1.099	1.66	23.5
2.40	–78.5	1.76	1.106	1.68	23.1
2.45	–77.9	1.78	1.114	1.70	23.0
2.50	–78.0	1.80	1.119	1.72	22.7
2.55	–75.6	1.82	1.123	1.74	22.3
2.60	–79.4	1.84	1.117	1.76	22.0
2.65	–82.2	1.86	1.110	1.78	22.1
2.70	–81.7	1.88	1.107	1.80	22.6
2.75	–79.9	1.90	1.104	1.82	23.4
2.80	–82.5	1.92	1.105	1.84	24.0
2.85	–88.8	1.94	1.106	1.86	24.4
2.90	43.7	1.96	1.098	1.88	24.5
2.95	77.6	1.98	1.088	1.90	24.4
3.05	79.0	2.00	1.072	1.92	24.3
3.10	79.3	2.02	1.058	1.94	24.5
3.15	78.8	2.04	1.081	1.96	24.9
3.20	77.1	2.06	1.106	1.98	25.0
3.25	77.6	2.08	1.110	2.00	25.1
3.30	80.9	2.10	1.112	2.02	25.3
3.35	87.9	2.12	1.110	2.04	25.3
3.40	51.9	2.14	1.107	2.06	25.5
3.45	40.1	2.16	1.098	2.08	26.0
3.50	28.8	2.18	1.090	2.10	26.4
3.55	–17.3	2.20	1.106	2.12	26.4
3.60	10.1	2.22	1.122	2.14	26.1
3.65	69.0	2.24	1.110	2.16	25.9
3.70	74.3	2.26	1.096	2.18	25.6
3.75	79.5	2.28	1.079	2.20	25.1
3.80	76.1	2.30	1.064	2.22	24.5
3.85	–74.5	2.32	1.072	2.24	24.2
3.90	–73.4	2.34	1.080	2.26	23.6
3.95	–69.6	2.36	1.068	2.28	22.5
4.00	–71.3	2.38	1.055	2.30	21.9
4.05	–70.0	2.40	1.060	2.32	21.6
4.10	–66.9	2.42	1.065	2.34	21.4
4.15	–66.6	2.44	1.058	2.36	21.1
4.20	–69.0	2.46	1.050	2.38	21.1
4.25	–79.7	2.48	1.050	2.40	21.0
4.30	–73.1	2.50	1.051	2.42	20.5
4.35	–71.5	2.52	1.072	2.44	20.4
4.40	–73.6	2.54	1.093	2.46	20.6
4.45	–78.8	2.56	1.076	2.48	21.0
4.55	–72.0	2.58	1.057	2.50	21.1
4.60	–75.5	2.60	1.052	2.52	20.9
4.65	–66.6	2.62	1.049	2.54	21.0
4.70	–52.1	2.64	1.066	2.56	21.4
4.75	56.5	2.66	1.083	2.58	21.7
4.80	67.9	2.68	1.081	2.60	22.1
4.85	69.1	2.70	1.077	2.62	22.2
4.90	20.5	2.72	1.078	2.64	22.4
4.95	–80.5	2.74	1.080	2.66	22.5
5.00	–67.2	2.76	1.086	2.68	22.4
5.05	–73.0	2.78	1.091	2.70	22.2
5.10	–70.3	2.80	1.076	2.72	22.3
5.15	–63.2	2.82	1.060	2.74	22.1
5.20	58.3	2.84	1.052	2.76	22.1
5.25	69.1	2.86	1.044	2.78	22.4
5.30	59.1	3.08	1.102	2.80	22.5
5.35	–64.0	3.10	1.100	2.82	22.4
5.40	–67.4	3.12	1.098	2.84	22.3
5.45	–72.8	3.14	1.113	2.86	22.5
5.50	–66.9	3.16	1.128	2.88	22.9
5.55	–20.6	3.18	1.126	3.06	26.4
5.60	53.5	3.20	1.122	3.08	27.2
5.65	–59.0	3.22	1.120	3.10	28.1
5.70	–58.1	3.24	1.117	3.12	28.7
5.75	20.4	3.26	1.095	3.14	29.0
		3.28	1.074	3.16	28.7
6.45	–0.4	3.30	1.086	3.18	28.0
6.50	8.8	3.32	1.099	3.20	27.2
6.55	19.8	3.34	1.100	3.22	26.6
6.60	15.3	3.36	1.099	3.24	25.6
6.65	19.1	3.38	1.095	3.26	24.7
6.70	11.0	3.40	1.092	3.28	24.3
6.75	–9.7	3.42	1.103	3.30	24.5
6.80	86.5	3.44	1.114	3.32	25.2
6.85	79.3	3.46	1.102	3.34	26.0
6.90	82.5	3.48	1.089	3.36	26.4
6.95	74.3	3.50	1.104	3.38	26.8
7.00	72.2	3.52	1.119	3.40	27.0
7.05	63.6	3.54	1.104	3.42	26.9
7.10	87.8	3.56	1.088	3.44	26.5
7.15	78.8	3.58	1.088	3.46	26.1
7.20	80.4	3.60	1.090	3.48	25.7
7.25	78.8	3.62	1.087	3.50	25.0
7.30	79.2	3.64	1.084	3.52	24.0
7.35	81.9	3.66	1.083	3.54	23.3
7.40	80.8	3.68	1.083	3.56	23.0
7.45	66.0	3.70	1.094	3.58	23.0
7.55	–86.1	3.72	1.105	3.60	22.9

Only a portion of this table appears here. The complete table is available in **ASCII.**

Table T28. Cleaned virtual geomagnetic pole latitude, magnetic susceptibility, and gamma ray attenuation from Site 1220 on corrected rmcd.

Virtual geomagnetic pole		Gamma ray attenuation		Magnetic susceptibility	
Depth (rmcd)	Latitude	Depth (rmcd)	Density (g/cm^3)	Depth (rmcd)	(10^{-6})
0.10	–47.1	0.08	1.125	0.06	31.0
0.15	–37.0	0.12	1.142	0.08	29.0
0.20	–20.3	0.16	1.155	0.10	37.5
0.25	47.8	0.20	1.162	0.12	38.5
0.30	71.5	0.24	1.133	0.14	31.0
0.35	88.6	0.28	1.143	0.16	31.0
0.40	67.4	0.32	1.144	0.18	32.5
0.45	–39.9	0.36	1.153	0.20	39.5
0.50	–69.0	0.40	1.154	0.22	42.0
0.55	–69.8	0.44	1.163	0.24	35.0
0.60	–78.5	0.48	1.152	0.26	32.0
0.65	–77.6	0.52	1.164	0.28	31.5
0.70	–68.7	0.56	1.165	0.30	32.0
0.75	–71.3	0.60	1.161	0.32	32.0
0.80	–84.2	0.64	1.133	0.34	31.0
0.85	–78.9	0.68	1.151	0.36	30.5
0.90	–78.4	0.72	1.136	0.38	31.0
0.95	–75.1	0.76	1.135	0.40	32.0
1.00	–70.3	0.80	1.140	0.42	32.0
1.05	–77.2	0.84	1.138	0.44	32.0
1.10	–77.7	0.88	1.140	0.46	32.0
1.15	–79.7	0.92	1.173	0.48	32.0
1.20	–69.6	0.96	1.170	0.50	32.0
1.25	–55.2	1.00	1.152	0.52	33.0
1.30	–63.7	1.04	1.158	0.54	32.0
1.35	–77.2	1.08	1.179	0.56	32.0
1.40	–79.4	1.12	1.180	0.58	32.5
1.60	–83.5	1.16	1.175	0.60	32.0
1.65	–83.5	1.20	1.169	0.62	31.0
1.70	–78.9	1.24	1.165	0.64	30.0
1.75	–71.8	1.28	1.166	0.66	29.5
1.80	–75.3	1.32	1.167	0.68	30.0
1.85	–89.2	1.36	1.154	0.70	29.0
1.90	–82.2	1.40	1.189	0.72	29.0
1.95	–82.8	1.44	1.171	0.74	28.5
2.00	–85.0	1.58	1.173	0.76	29.0
2.05	–81.1	1.62	1.165	0.78	29.5
2.10	–77.6	1.66	1.169	0.80	29.0
2.15	–75.2	1.70	1.153	0.82	29.5
2.20	–82.5	1.74	1.147	0.84	29.5
2.25	–61.1	1.78	1.146	0.86	30.5
2.30	–72.8	1.82	1.174	0.88	29.5
2.35	–69.6	1.86	1.178	0.90	31.5
2.40	–64.6	1.90	1.155	0.92	30.5
2.45	–24.2	1.94	1.169	0.94	29.5
2.50	–78.1	1.98	1.160	0.96	24.0
2.55	–74.5	2.02	1.185	0.98	24.5
2.60	–84.0	2.06	1.153	1.00	28.0
2.65	–85.1	2.10	1.169	1.02	30.0
2.70	–87.4	2.14	1.191	1.04	30.0
2.75	54.1	2.18	1.200	1.06	30.0
2.80	31.0	2.22	1.185	1.08	29.0
2.85	–82.2	2.26	1.187	1.10	28.5
2.90	–78.5	2.30	1.174	1.12	28.5
3.10	–71.5	2.34	1.153	1.14	28.0
3.15	–58.4	2.38	1.182	1.16	29.0
3.20	45.0	2.42	1.189	1.18	29.5
3.25	53.7	2.46	1.202	1.20	31.0
3.30	–84.2	2.50	1.200	1.22	33.0
3.35	–77.1	2.54	1.174	1.24	33.5
3.40	–74.6	2.58	1.180	1.26	33.0
3.45	50.6	2.62	1.181	1.28	33.5
3.50	55.9	2.66	1.149	1.30	33.0
3.55	59.6	2.70	1.207	1.32	34.0
3.60	68.5	2.74	1.167	1.34	33.5
3.65	36.2	2.78	1.171	1.36	33.5
3.70	15.0	2.82	1.183	1.38	33.0
3.75	13.5	2.86	1.181	1.40	32.5
3.80	15.6	2.90	1.163	1.42	33.5
3.85	3.9	2.94	1.165	1.44	33.5
3.90	–18.7	3.08	1.203	1.56	33.0
3.95	–77.7	3.12	1.166	1.58	33.0
4.00	6.6	3.16	1.219	1.60	33.5
4.05	58.5	3.20	1.194	1.62	34.0
4.10	59.0	3.24	1.176	1.64	34.5
4.15	56.0	3.28	1.187	1.66	35.0
4.20	49.9	3.32	1.187	1.68	35.0
4.25	48.1	3.36	1.211	1.70	34.0
4.30	41.4	3.40	1.196	1.72	34.5
4.35	48.7	3.44	1.183	1.74	33.5
4.40	38.1	3.48	1.198	1.76	33.0
4.60	40.4	3.52	1.194	1.78	34.0
4.65	43.8	3.56	1.208	1.80	33.5
4.70	43.6	3.60	1.190	1.82	33.0
4.75	44.7	3.64	1.187	1.84	34.0
4.80	49.6	3.68	1.189	1.86	34.0
4.85	8.0	3.72	1.206	1.88	34.0
4.90	–32.7	3.76	1.198	1.90	34.0
4.95	37.8	3.80	1.188	1.92	33.0
5.00	36.7	3.84	1.195	1.94	33.0
5.05	48.7	3.88	1.191	1.96	32.0
5.10	38.5	3.92	1.193	1.98	32.0
5.15	28.0	3.96	1.224	2.00	32.0
5.20	29.1	4.00	1.211	2.02	32.0
5.25	–30.9	4.04	1.209	2.04	33.0
5.30	13.9	4.08	1.207	2.06	33.5
5.35	–46.8	4.12	1.187	2.08	34.0
5.40	–40.5	4.16	1.189	2.10	35.0
5.45	59.1	4.20	1.165	2.12	35.0
5.50	76.4	4.24	1.196	2.14	36.0
5.55	73.6	4.28	1.187	2.16	37.0
5.60	64.4	4.32	1.218	2.18	37.5
5.65	67.5	4.36	1.173	2.20	37.5
5.70	66.0	4.58	1.214	2.22	37.0
5.75	62.9	4.62	1.192	2.24	37.0
5.80	57.9	4.66	1.189	2.26	37.0
5.85	66.3	4.70	1.221	2.28	36.0
5.90	58.9	4.74	1.219	2.30	35.0
6.10	43.2	4.78	1.204	2.32	36.0
6.15	41.1	4.82	1.197	2.34	36.0
6.20	59.9	4.86	1.211	2.36	36.5
6.25	47.8	4.90	1.200	2.38	38.5
6.30	–48.0	4.94	1.202	2.40	39.5
6.35	–63.1	4.98	1.209	2.42	41.5
6.40	–33.1	5.02	1.185	2.44	41.5
6.45	–72.9	5.06	1.219	2.46	37.5
6.50	–64.6	5.10	1.206	2.48	37.0
6.55	–43.5	5.14	1.207	2.50	36.5
6.60	–85.6	5.18	1.213	2.52	37.0
6.65	–43.2	5.22	1.228	2.54	38.5
6.70	22.5	5.26	1.196	2.56	38.5
6.75	8.0	5.30	1.217	2.58	39.0
6.80	–50.5	5.34	1.209	2.60	37.5
6.85	–47.7	5.38	1.205	2.62	37.0
6.90	–44.3	5.42	1.204	2.64	38.0
6.95	–34.3	5.46	1.202	2.66	38.0

Only a portion of this table appears here. The complete table is available in **ASCII.**

Table T29. Correlation of Sites 1219, U1333, and U1334 to corrected rmcd of Site 1218. (Continued on next page.)

Site 1219 depth (rmcd)	Site 1218 depth (corrected rmcd)	Site U1333 depth (rmcd [m revised CCSF-A])	Site 1218 depth (corrected rmcd)	Site U1334 depth (rmcd [m revised CCSF-A])	Site 1218 depth (corrected rmcd)
0.958	6.609	2.507	65.111	0.830	5.440
1.178	7.798	3.530	66.830	1.130	7.790
1.330	8.310	4.228	68.099	1.200	8.310
2.100	10.020	5.097	69.299	1.880	10.020
2.330	11.730	5.673	70.117	2.030	11.730
2.895	13.817	6.183	70.984	4.080	21.680
3.614	16.280	6.663	71.477	5.280	23.510
3.850	17.980	7.566	72.896	5.730	24.240
4.700	18.960	8.341	73.930	5.930	24.760
4.880	19.490	8.734	74.641	6.330	25.790
5.180	20.290	9.960	76.260	6.920	27.030
5.400	20.520	10.654	77.814	7.220	27.270
5.550	20.830	10.990	78.486	7.270	27.310
5.650	20.990	11.597	79.698	7.390	27.440
6.785	23.293	12.683	81.279	7.690	30.460
7.491	25.740	15.405	83.685	7.950	30.610
8.648	30.383	15.791	83.898	8.040	30.870
9.177	31.522	16.175	84.596	8.720	31.960
10.239	34.938	16.647	85.320	11.340	33.110
11.241	36.427	17.048	85.951	11.620	33.520
12.061	37.383	17.667	86.976	11.990	33.960
14.760	40.409	18.881	89.008	12.170	34.490
20.380	47.200	19.424	89.655	12.260	34.780
20.830	47.620	20.248	90.746	14.420	36.190
21.579	48.455	20.848	91.694	14.540	36.520
22.137	49.203	21.781	92.900	15.540	37.820
23.230	51.190	22.081	93.405	15.720	38.070
24.040	52.040	22.716	94.336	16.790	38.900
24.220	52.260	23.293	95.338	17.120	39.400
24.450	52.550	23.940	96.200	17.340	39.630
24.810	52.950	25.192	98.187	18.390	40.360
25.120	53.290	25.884	99.147	20.170	41.220
26.650	55.240	26.218	99.700	20.390	41.380
27.220	56.120	26.779	100.420	20.790	41.610
28.200	57.400	27.201	101.279	20.920	41.850
29.370	59.120	27.651	102.220	21.640	42.300
29.930	59.770	28.385	103.496	22.290	42.770
31.219	62.108	28.744	104.590	23.070	43.230
31.771	63.461	29.588	106.169	24.640	43.950
32.699	65.583	30.048	106.765	25.390	44.320
33.460	66.830	30.350	107.180	26.740	44.980
33.942	67.664	30.960	108.020	26.970	45.100
34.998	69.280	31.514	109.074	28.690	46.180
35.522	70.167	32.217	110.194	29.570	46.600
36.280	71.330	32.920	111.539	29.920	46.850
37.280	73.270	33.641	113.071	30.720	47.200
38.011	74.677	34.322	114.505	31.520	47.620
39.257	76.355	34.632	115.076	32.394	48.131
40.104	77.423	34.972	115.580	33.625	48.820
40.742	78.549	35.916	116.973	35.024	49.957
42.083	81.237	37.080	119.490	36.534	51.155
45.090	83.880	38.520	121.590	38.176	52.032
45.490	84.320	38.820	122.120	38.860	52.550
45.990	85.040	39.498	123.517	39.280	52.950
47.078	86.637	39.803	124.134	39.690	53.290
47.499	87.197	40.142	124.932	41.740	55.240
48.518	88.561	41.495	128.438	42.790	56.115
49.117	89.341	41.962	129.354	43.777	56.434
50.284	90.741	43.289	131.376	44.840	57.400
50.850	91.714	44.281	132.786	47.236	59.009
51.460	92.440	45.492	134.460	48.197	59.758
52.120	93.370	46.117	135.409	53.042	62.814
52.666	94.334	46.848	136.163	54.338	63.817
53.040	94.790	48.388	137.538	56.376	65.537
53.800	96.200	49.188	138.712	57.886	66.680
55.158	98.235	50.366	140.384	59.371	67.647
55.580	98.780	52.244	143.350	60.507	68.494
56.090	99.660	53.632	145.509	61.450	69.069
56.669	100.678	54.561	146.945	62.241	69.522
58.191	104.578	55.415	148.029	62.863	69.888
59.180	106.870	56.581	149.398	63.550	70.237
59.400	107.180	57.605	150.978	64.501	70.805
60.050	108.020	58.240	151.630	65.420	71.330
60.582	109.037	58.818	152.464	66.113	71.788
62.291	111.617	59.799	153.536	67.889	72.890
63.096	113.109	61.044	154.832	68.673	73.481
63.730	115.490	62.865	156.729	69.789	74.127
64.446	117.023	63.645	157.841	70.533	74.654
64.680	117.329	64.494	158.854	73.589	76.263
65.346	118.634	67.145	162.070	74.655	77.407
65.920	119.490	67.876	163.185	76.141	78.527
67.320	121.590	68.427	163.794	77.940	79.847
67.620	122.120	69.188	164.780	79.983	81.591
68.462	123.522	70.922	166.954	85.178	83.759
68.857	124.103	71.526	167.718	85.706	84.164
69.310	125.003	72.601	168.998	86.996	85.090
69.609	125.917	74.260	171.096	87.917	85.607
69.983	127.251	75.806	172.615	89.170	86.370
70.963	128.412	77.100	173.920	89.740	86.780
71.670	129.354	80.889	177.936	90.580	87.211
72.015	129.746	81.982	179.165	92.910	88.573
72.883	131.338	83.989	181.671	94.625	89.872
73.753	132.142	86.327	184.490	95.675	90.698
75.224	133.274	86.910	185.310	97.134	91.695
77.155	135.376	92.260	190.140	98.048	92.307
77.922	136.148	97.073	196.498	99.015	92.941
79.244	137.584	98.318	198.064	100.078	93.465
80.784	139.231	102.640	201.287	101.384	94.360
81.425	142.642	103.593	202.669	102.792	95.353
86.720	145.492	104.510	203.790	103.970	96.221
88.194	146.950	105.783	205.755	106.658	98.201
89.237	148.064	106.831	207.262	107.570	98.780
90.538	149.371	109.472	210.516	108.040	99.178
92.093	150.994	112.025	213.602	108.783	99.719
93.456	152.479	113.243	214.877	110.077	100.653
94.539	153.743	116.247	218.396	110.626	101.037
97.442	156.787	117.367	219.276	111.829	101.842
98.715	157.837	118.913	221.243	113.161	102.929
99.552	158.882	120.798	223.725	114.210	103.785
101.870	161.260	123.116	226.463	114.722	104.129
102.600	162.120	127.226	230.464	115.542	104.582
103.398	163.230	128.172	231.414	117.795	106.000
104.361	164.245	129.980	233.390	118.935	106.766
109.823	168.983	131.306	235.008	119.490	107.180
112.145	171.332	131.879	235.949	120.432	107.887
113.491	172.640	132.323	236.466	122.096	109.079
114.670	174.053	133.083	237.446	123.632	110.230
125.494	185.560	133.705	238.130	124.554	110.891
136.744	198.107	134.700	239.128	125.680	111.590
141.892	202.715	135.424	240.373	127.724	113.173
143.173	204.344	135.841	240.792	128.983	114.247
143.587	205.073	136.152	241.298	129.767	114.885
144.388	205.994	136.562	242.640	130.487	115.494
145.345	207.109	136.887	243.191	132.352	116.951
146.213	208.052	137.381	244.118	133.177	117.705
150.830	213.634	137.593	244.456	135.300	119.490
151.739	214.370	138.016	245.254	137.690	121.590
154.673	216.968	138.327	245.866	138.340	122.120
156.025	218.425	138.652	246.618	138.942	122.556
157.380	219.282	139.189	247.503	140.324	123.500

Table T29 (continued).

Site 1219 depth (rmcd)	Site 1218 depth (corrected rmcd)	Site U1333 depth (rmcd [m revised CCSF-A])	Site 1218 depth (corrected rmcd)	Site U1334 depth (rmcd [m revised CCSF-A])	Site 1218 depth (corrected rmcd)
160.825	224.429	139.782	248.312	141.220	124.157
161.651	225.609	142.321	250.911	142.040	124.906
163.042	226.971	142.590	251.275	143.405	126.258
164.515	228.152	143.593	251.627	145.447	128.420
165.871	229.436	144.132	251.774	147.160	129.355
166.274	229.806	145.345	252.454	147.877	129.741
167.031	230.468	145.933	252.696	148.533	130.195
167.937	231.362	146.915	253.321	149.892	131.113
168.601	232.063	147.338	253.860	152.204	132.717
169.972	233.378	147.856	254.374	153.575	133.668
171.445	236.261	148.157	254.699	155.839	134.830
172.461	238.150	148.440	255.017	157.155	135.395
173.083	238.927	148.737	255.375	158.702	137.610
173.427	239.426	148.962	255.640	160.400	138.729
174.416	240.846	149.393	255.918	162.910	140.507
177.591	243.969	149.852	256.280	166.656	143.504
178.511	244.878	150.897	257.431	169.298	145.530
180.057	246.446	151.575	258.003	173.489	148.528
181.784	248.586	152.465	258.727	177.560	151.630
182.520	249.211	152.663	258.873	180.377	153.873
183.070	249.600	152.931	259.123	183.909	156.780
187.470	252.525	153.184	259.415	185.170	157.770
188.920	253.710	154.381	260.296	190.100	161.260
193.940	258.080	154.782	260.628	191.358	162.069
194.890	258.723	155.688	261.468	193.303	163.587
195.452	259.174	157.197	262.379	194.050	164.090
197.595	261.503	157.926	263.076	198.243	167.370
198.970	262.430	158.510	263.656	201.693	169.824
199.751	263.056	160.685	264.847	203.823	171.303
203.627	266.398	161.392	265.427	205.282	172.317
204.476	267.402	161.891	265.883	207.560	173.934
206.920	269.794	162.458	266.440	212.750	178.050
207.470	270.238	162.917	266.885	219.800	184.320
211.500	272.721	163.355	267.415	221.330	185.310
213.480	275.424	163.891	267.967	230.040	190.140
214.349	276.645	164.428	268.492	237.380	194.921
216.345	278.641	164.951	268.899	242.719	198.071
217.641	279.590	165.389	269.301	249.948	202.691
218.387	280.477	165.713	269.517	251.281	203.428
218.978	280.952	166.448	270.071	254.529	205.729
219.440	281.731	168.891	272.197	254.996	206.107
219.841	282.340	172.210	274.760	255.734	206.523
220.404	283.089	172.818	275.202	256.300	206.867
221.733	284.948	173.256	275.660	256.817	207.255
222.217	285.872	173.693	276.168	257.629	207.861
224.071	289.456	174.810	277.880	258.466	208.486
224.636	290.598	175.615	279.330	258.884	208.845
225.805	292.987	176.494	281.250	259.376	209.322
		178.575	285.334	260.336	210.228
		179.507	286.865	261.664	211.144
		180.466	288.557	262.870	211.913
		181.341	290.189	263.402	212.371
		182.089	291.400	264.568	213.225
		182.794	292.516	265.503	213.861
				266.610	214.875
				268.554	216.886
				270.153	218.494
				272.048	220.114
				273.179	221.176
				274.114	221.934
				275.418	222.996
				277.478	224.728
				278.411	225.465
				279.439	226.341

Site 1219 depth (rmcd)	Site 1218 depth (corrected rmcd)	Site U1333 depth (rmcd [m revised CCSF-A])	Site 1218 depth (corrected rmcd)	Site U1334 depth (rmcd [m revised CCSF-A])	Site 1218 depth (corrected rmcd)
				280.250	226.907
				283.318	229.156
				284.854	230.046
				286.495	231.405
				288.558	232.751
				289.537	233.436
				290.605	234.208
				291.499	235.035
				292.538	235.965
				293.181	236.532
				294.674	237.833
				295.047	238.130
				296.025	239.121
				296.482	239.500
				297.600	240.233
				298.562	240.800
				299.151	241.216
				299.476	241.450
				300.570	242.560
				300.762	242.799
				301.163	243.191
				302.109	243.937
				303.023	244.846
				303.600	245.238
				304.057	245.488
				304.546	245.866
				305.904	246.643
				306.457	246.999
				307.222	247.503
				308.476	248.312
				313.192	250.911
				313.617	251.275
				314.913	251.627
				315.580	251.774
				317.418	252.454
				318.080	252.696
				319.329	253.321
				319.918	253.860
				320.468	254.247
				321.264	254.696
				321.530	255.001
				322.016	255.375
				322.331	255.640
				323.037	255.918
				323.753	256.280
				324.525	256.989
				325.631	257.431
				326.792	257.992
				328.593	258.727
				328.959	258.873
				329.501	259.123
				329.962	259.415
				331.812	260.099
				332.866	260.621
				333.575	260.988
				334.609	261.452
				335.355	261.968
				336.004	262.375
				336.737	263.057
				337.722	263.656
				339.053	264.144
				340.377	264.538

Table T30. Correlation of Sites U1331 and U1332 to rmcd of Site 1220.

Site U1331 depth (rmcd [m revised CCSF-A])	Site 1220 depth (rmcd)	Site U1332 depth (rmcd [m revised CCSF-A])	Site 1220 depth (rmcd)
13.660	20.150	12.350	53.560
15.210	20.730	13.720	55.720
15.660	21.130	13.900	56.040
16.110	21.980	14.950	57.520
16.560	22.850	16.300	59.770
17.050	23.150	16.744	60.757
17.980	23.980	17.087	60.932
18.180	24.280	17.250	61.170
18.700	24.900	17.573	61.806
18.830	25.030	18.019	62.221
19.050	25.250	18.579	63.251
19.280	25.680	19.244	64.237
19.750	25.750	19.670	64.802
20.550	26.670	20.075	65.224
21.780	27.630	20.526	65.810
22.450	28.050	21.962	67.711
22.850	28.730	22.912	69.682
23.130	28.980	24.317	71.205
23.680	29.550	25.426	72.166
23.980	29.750	25.974	72.747
25.459	30.835	26.680	73.406
26.680	32.130	26.960	73.937
26.730	32.250	27.422	74.771
27.080	32.730	27.819	75.324
28.130	33.750	28.818	76.706
28.910	34.730	28.998	77.002
29.380	35.200	29.383	77.601
29.950	35.700	30.297	78.571
30.330	36.180	30.814	79.289
30.450	36.300	31.713	80.826
31.606	37.542	33.310	82.750
32.910	39.230	34.110	83.800
34.730	41.030	35.230	85.600
35.922	41.788	35.830	86.670
37.313	42.673	39.600	87.380
38.255	43.393	40.439	88.269
39.050	43.990	42.897	91.112
40.019	44.866	44.770	92.800
41.030	45.790	45.631	93.578
42.080	46.870	50.134	97.544
42.330	47.120	50.590	98.440
42.830	47.640	51.860	99.540
43.664	48.440	52.140	99.840
44.448	49.232	53.090	100.620
45.097	50.067	54.690	101.920
46.416	51.254	56.345	102.856
48.651	53.471	57.578	103.553
48.900	53.590	65.990	109.020
50.494	55.002	67.040	109.980
51.480	55.720	73.340	114.150
51.680	56.040	94.800	124.300
53.780	57.520	98.850	125.380
56.063	59.239	112.930	130.600
56.613	59.484	136.810	141.430

Site U1331 depth (rmcd [m revised CCSF-A])	Site 1220 depth (rmcd)	Site U1332 depth (rmcd [m revised CCSF-A])	Site 1220 depth (rmcd)
56.991	59.697		
58.251	60.360		
58.636	60.753		
59.691	61.810		
59.932	62.113		
61.470	63.373		
63.261	64.789		
67.161	67.730		
69.822	69.679		
70.990	70.556		
71.637	71.217		
73.582	73.481		
74.161	73.935		
75.000	74.700		
75.653	75.307		
77.605	76.574		
77.980	76.970		
78.540	77.752		
78.840	78.099		
80.139	79.624		
82.160	82.750		
83.260	83.800		
84.760	85.600		
85.580	86.670		
86.160	87.380		
89.200	91.300		
90.700	92.800		
91.876	94.134		
93.835	95.789		
95.860	97.740		
96.280	98.440		
97.460	99.540		
97.760	99.840		
98.660	100.620		
99.910	101.920		
102.110	103.729		
103.373	104.668		
105.897	106.764		
106.538	107.525		
108.120	109.020		
108.820	109.980		
112.600	114.150		
119.531	119.342		
122.558	121.810		
124.256	122.913		
125.850	124.300		
128.716	125.283		
130.606	126.307		
133.109	127.570		
135.818	128.959		
138.210	130.600		
141.272	132.974		

Table T31. Revised magnetochrons, Sites 1218, 1219, and 1220. (Continued on next three pages.)

Chron	CK95	GPTS2004	Expedition 320 Age	Expedition 320 Source	Site 1218 depth Top (corrected rmcd)	Site 1218 depth Bottom (corrected rmcd)	Site 1218 depth Middle (corrected rmcd)	Site 1219 depth Top (corrected rmcd)	Site 1219 depth Bottom (corrected rmcd)	Site 1219 depth Middle (corrected rmcd)	Site 1220 depth Top (corrected rmcd)	Site 1220 depth Bottom (corrected rmcd)	Site 1220 depth Middle (corrected rmcd)
C1n (y)	0.000	0.000	0.000	Lourens et al., 2004									
C1n (o)	0.780	0.781	0.781	Lourens et al., 2004			5.44	0.90	1.10	1.00			
C1r.1n (y)	0.990	0.988	0.988	Lourens et al., 2004			7.79	1.15	1.20	1.18			
C1r.1n (o)	1.070	1.072	1.072	Lourens et al., 2004			8.31	1.25	1.40	1.33			
C2n (y)	1.770	1.778	1.778	Lourens et al., 2004			10.02	2.00	2.20	2.10			
C2n (o)	1.950	1.945	1.945	Lourens et al., 2004			11.73	2.20	2.45	2.33			
C2r.1n (y)	2.140	2.128	2.128	Lourens et al., 2004									
C2r.1n (o)	2.150	2.148	2.148	Lourens et al., 2004									
C2An.1n (y)	2.581	2.581	2.581	Lourens et al., 2004			13.78	2.85	3.10	2.98			
C2An.1n (o)	3.040	3.032	3.032	Lourens et al., 2004									
C2An.2n (y)	3.110	3.116	3.116	Lourens et al., 2004									
C2An.2n (o)	3.220	3.207	3.207	Lourens et al., 2004									
C2An.3n (y)	3.330	3.330	3.330	Lourens et al., 2004			16.28						
C2An.3n (o)	3.580	3.596	3.596	Lourens et al., 2004			17.98	3.80	3.90	3.85			
C3n.1n (y)	4.180	4.187	4.187	Lourens et al., 2004	18.81	19.10	18.96	4.60	4.80	4.70			
C3n.1n (o)	4.290	4.300	4.300	Lourens et al., 2004	19.43	19.54	19.49	4.80	4.95	4.88			
C3n.2n (y)	4.480	4.493	4.493	Lourens et al., 2004	20.24	20.33	20.29	5.10	5.25	5.18			
C3n.2n (o)	4.620	4.631	4.631	Lourens et al., 2004	20.48	20.56	20.52	5.30	5.50	5.40			
C3n.3n (y)	4.800	4.799	4.799	Lourens et al., 2004	20.77	20.88	20.83	5.50	5.60	5.55			
C3n.3n (o)	4.890	4.896	4.896	Lourens et al., 2004	20.94	21.03	20.99	5.60	5.70	5.65			
C3n.4n (y)	4.980	4.997	4.997	Lourens et al., 2004	21.23	21.32	21.28						
C3n.4n (o)	5.230	5.235	5.235	Lourens et al., 2004	21.58	21.78	21.68						
C3An.1n (y)	5.894	6.033	6.033	Lourens et al., 2004	23.40	23.62	23.51	6.75	6.90	6.83			
C3An.1n (o)	6.137	6.252	6.252	Lourens et al., 2004	24.18	24.29	24.24						
C3An.2n (y)	6.269	6.436	6.436	Lourens et al., 2004	24.66	24.85	24.76						
C3An.2n (o)	6.567	6.733	6.733	Lourens et al., 2004	25.65	25.92	25.79	7.45	7.55	7.50			
C3Bn (y)	6.935	7.140	7.140	Lourens et al., 2004			27.03						
C3Bn (o)	7.091	7.212	7.212	Lourens et al., 2004			27.27						
C3Br.1n (y)	7.135	7.251	7.251	Lourens et al., 2004			27.31						
C3Br.1n (o)	7.170	7.285	7.285	Lourens et al., 2004			27.44						
C3Br.2n (y)	7.341	7.454	7.454	Lourens et al., 2004									
C3Br.2n (o)	7.375	7.489	7.489	Lourens et al., 2004									
C4n.1n (y)	7.432	7.528	7.528	Lourens et al., 2004	30.37	30.54	30.46	8.65	8.95	8.80			
C4n.1n (o)	7.562	7.642	7.642	Lourens et al., 2004	30.59	30.63	30.61						
C4n.2n (y)	7.650	7.695	7.695	Lourens et al., 2004	30.76	30.98	30.87						
C4n.2n (o)	8.072	8.108	8.108	Lourens et al., 2004	31.72	32.20	31.96	9.25	9.50	9.38			
C4r.1n (y)	8.225	8.254	8.254	Lourens et al., 2004									
C4r.1n (o)	8.257	8.300	8.300	Lourens et al., 2004									
C4An (y)	8.699	8.769	8.769	Lourens et al., 2004									
C4An (o)	9.025	9.098	9.098	Lourens et al., 2004									
C4Ar.1n (y)	9.230	9.312	9.312	Lourens et al., 2004	32.98	33.23	33.11						
C4Ar.1n (o)	9.308	9.409	9.409	Lourens et al., 2004	33.43	33.60	33.52						
C4Ar.2n (y)	9.580	9.656	9.656	Lourens et al., 2004	33.85	34.06	33.96						
C4Ar.2n (o)	9.642	9.717	9.717	Lourens et al., 2004	34.43	34.55	34.49						
C5n.1n (y)	9.740	9.779	9.779	Lourens et al., 2004	34.68	34.88	34.78						
C5n.1n (o)	9.880	9.934	9.934	Lourens et al., 2004				11.80	12.50	12.15			
C5n.2n (y)	9.920	9.987	9.987	Lourens et al., 2004									
C5n.2n (o)	10.949	11.040	11.040	Lourens et al., 2004									
C5r.1n (y)	11.052	11.118	11.118	Lourens et al., 2004	36.17	36.21	36.19						

Table T31 (continued). (Continued on next page.)

Chron	CK95	GPTS2004	Expedition 320 Age	Expedition 320 Source	Site 1218 depth Top (corrected rmcd)	Site 1218 depth Bottom (corrected rmcd)	Site 1218 depth Middle (corrected rmcd)	Site 1219 depth Top (corrected rmcd)	Site 1219 depth Bottom (corrected rmcd)	Site 1219 depth Middle (corrected rmcd)	Site 1220 depth Top (corrected rmcd)	Site 1220 depth Bottom (corrected rmcd)	Site 1220 depth Middle (corrected rmcd)
C5r.1n (o)	11.099	11.154	11.154	Lourens et al., 2004	36.46	36.58	36.52						
C5r.2n (y)	11.476	11.554	11.554	Lourens et al., 2004	37.78	37.86	37.82						
C5r.2n (o)	11.531	11.614	11.614	Lourens et al., 2004	38.02	38.14	38.07						
C5An.1n (y)	11.935	12.014	12.014	Lourens et al., 2004	38.86	38.94	38.90						
C5An.1n (o)	12.078	12.116	12.116	Lourens et al., 2004	39.35	39.44	39.40						
C5An.2n (y)	12.184	12.207	12.207	Lourens et al., 2004	39.54	39.72	39.63						
C5An.2n (o)	12.401	12.415	12.415	Lourens et al., 2004	40.07	40.64	40.36						
C5Ar.1n (y)	12.678	12.730	12.730	Lourens et al., 2004	41.18	41.26	41.22						
C5Ar.1n (o)	12.708	12.765	12.765	Lourens et al., 2004	41.30	41.46	41.38						
C5Ar.2n (y)	12.775	12.820	12.820	Lourens et al., 2004	41.55	41.67	41.61						
C5Ar.2n (o)	12.819	12.878	12.878	Lourens et al., 2004	41.80	41.92	41.85						
C5AAn (y)	12.991	13.015	13.015	Lourens et al., 2004	42.21	42.38	42.30						
C5AAn (o)	13.139	13.183	13.183	Lourens et al., 2004	42.71	42.83	42.77						
C5ABn (y)	13.302	13.369	13.369	Lourens et al., 2004	43.18	43.28	43.23						
C5ABn (o)	13.510	13.605	13.605	Lourens et al., 2004	43.89	44.01	43.95						
C5ACn (y)	13.703	13.734	13.734	Lourens et al., 2004	44.21	44.42	44.32						
C5ACn (o)	14.076	14.095	14.095	Lourens et al., 2004	44.90	45.05	44.98						
C5ADn (y)	14.178	14.194	14.194	Lourens et al., 2004	45.05	45.15	45.10						
C5ADn (o)	14.612	14.581	14.581	Lourens et al., 2004	46.15	46.20	46.18						
C5Bn.1n (y)	14.800	14.784	14.784	Lourens et al., 2004	46.55	46.65	46.60						
C5Bn.1n (o)	14.888	14.877	14.877	Lourens et al., 2004	46.76	46.97	46.85						
C5Bn.2n (y)	15.034	15.032	15.032	Lourens et al., 2004	47.10	47.34	47.20	20.30	20.45	20.38			
C5Bn.2n (o)	15.155	15.160	15.160	Lourens et al., 2004	47.55	47.72	47.62	20.70	20.95	20.83			
C5Cn.1n (y)	16.014	15.974	15.974	Lourens et al., 2004	51.13	51.26	51.19	23.16	23.30	23.23			
C5Cn.1n (o)	16.293	16.268	16.268	Lourens et al., 2004	52.01	52.06	52.04	23.91	24.17	24.04			
C5Cn.2n (y)	16.327	16.303	16.303	Lourens et al., 2004	52.11	52.41	52.26	24.17	24.27	24.22			
C5Cn.2n (o)	16.488	16.472	16.472	Lourens et al., 2004	52.51	52.61	52.55	24.32	24.57	24.45			
C5Cn.3n (y)	16.556	16.543	16.543	Lourens et al., 2004	52.88	52.96	52.95	24.69	24.92	24.81			
C5Cn.3n (o)	16.726	16.721	16.721	Lourens et al., 2004	53.27	53.40	53.29	25.02	25.22	25.12			
C5Dn (y)	17.277	17.235	17.235	Lourens et al., 2004	55.19	55.29	55.24			26.65			
C5Dn (o)		17.533	17.533	Lourens et al., 2004	56.09	56.14	56.12			27.22			
C5Dr.1n (y)		17.717	17.717	Lourens et al., 2004						27.43			
C5Dr.1n (o)	17.615	17.740	17.740	Lourens et al., 2004						27.53			
C5En (y)	18.281	18.056	18.056	Lourens et al., 2004	57.28	57.58	57.40			28.20			
C5En (o)	18.781	18.524	18.524	Lourens et al., 2004	59.09	59.14	59.12			29.37			
C6n (y)	19.048	18.748	18.748	Lourens et al., 2004	59.74	59.79	59.77			29.93			
C6n (o)	20.131	19.722	19.722	Lourens et al., 2004	66.64	67.01	66.83			33.46			
C6An.1n (y)	20.518	20.040	20.040	Lourens et al., 2004	69.26	69.38	69.32			35.06	20.05	20.25	20.15
C6An.1n (o)	20.725	20.213	20.213	Lourens et al., 2004	70.21	70.31	70.25			35.63	20.60	20.85	20.73
C6An.2n (y)	20.996	20.439	20.439	Lourens et al., 2004	71.16	71.49	71.33			36.28	21.05	21.20	21.13
C6An.2n (o)	21.320	20.709	20.709	Lourens et al., 2004	73.09	73.44	73.27			37.28	21.85	22.10	21.98
C6AAn (y)	21.768	21.083	21.083	Lourens et al., 2004	76.21	76.31	76.26				22.80	22.90	22.85
C6AAn (o)	21.859	21.159	21.159	Lourens et al., 2004	77.63	77.80	77.72			40.27	23.10	23.20	23.15
C6AAr.1n (y)	22.151	21.403	21.403	Lourens et al., 2004						42.39	23.95	24.00	23.98
C6AAr.1n (o)	22.248	21.483	21.483	Lourens et al., 2004						43.14	24.25	24.30	24.28
C6AAr.2n (y)	22.459	21.659	21.659	Lourens et al., 2004	83.81	83.94	83.88			45.09	24.85	24.95	24.90
C6AAr.2n (o)	22.493	21.688	21.688	Lourens et al., 2004	84.25	84.38	84.32			45.49	25.00	25.05	25.03
C6Bn.1n (y)	22.588	21.767	21.767	Lourens et al., 2004	84.99	85.08	85.04			45.99	25.20	25.30	25.25
C6Bn.1n (o)	22.750	21.936	21.936	Lourens et al., 2004	86.30	86.43	86.37			46.89	25.65	25.70	25.68

Table T31 (continued). (Continued on next page.)

Chron	CK95	GPTS2004	Expedition 320 Age	Expedition 320 Source	Site 1218 depth Top (corrected rmcd)	Site 1218 depth Bottom (corrected rmcd)	Site 1218 depth Middle (corrected rmcd)	Site 1219 depth Top (corrected rmcd)	Site 1219 depth Bottom (corrected rmcd)	Site 1219 depth Middle (corrected rmcd)	Site 1220 depth Top (corrected rmcd)	Site 1220 depth Bottom (corrected rmcd)	Site 1220 depth Middle (corrected rmcd)
C6Bn.2n (y)	22.804	21.992	21.992	Lourens et al., 2004	86.73	86.82	86.78			47.16	25.70	25.80	25.75
C6Bn.2n (o)	23.069	22.268	22.268	Lourens et al., 2004	89.56	89.91	89.74			49.16	26.58	26.75	26.67
C6Cn.1n (y)	23.353	22.564	22.564	Lourens et al., 2004	92.31	92.56	92.44			51.46	27.60	27.65	27.63
C6Cn.1n (o)	23.535	22.754	22.754	Lourens et al., 2004	93.32	93.41	93.37			52.12	28.00	28.10	28.05
C6Cn.2n (y)	23.677	22.902	22.902	Lourens et al., 2004	94.42	95.15	94.79			53.04	28.70	28.75	28.73
C6Cn.2n (o)	23.800	23.030	23.030	Lourens et al., 2004	96.04	96.41	96.20			53.80	28.95	29.00	28.98
C6Cn.3n (y)	23.999	23.249	23.278	Pälike et al. 2006	98.73	98.83	98.78			55.58	29.50	29.60	29.55
C6Cn.3n (o)	24.118	23.375	23.340	Pälike et al. 2006	99.55	99.76	99.66			56.09	29.65	29.85	29.75
C7n.1n (y)	24.730	24.044	24.022	Pälike et al. 2006	106.81	106.92	106.87			59.18	32.10	32.15	32.13
C7n.1n (o)	24.781	24.102	24.062	Pälike et al. 2006	107.12	107.23	107.18			59.40	32.15	32.35	32.25
C7n.2n (y)	24.835	24.163	24.147	Pälike et al. 2006	107.72	108.32	108.02			60.05	32.65	32.80	32.73
C7n.2n (o)	25.183	24.556	24.459	Pälike et al. 2006	111.37	111.81	111.59			62.39	33.65	33.85	33.75
C7An (y)	25.496	24.915	24.756	Pälike et al. 2006	115.37	115.60	115.49	63.16	64.29	63.73	34.70	34.75	34.73
C7An (o)	25.648	25.091	24.984	Pälike et al. 2006	117.09	117.19	117.14	64.54	64.71	64.63	35.05	35.35	35.20
C8n.1n (y)	25.823	25.295	25.110	Pälike et al. 2006	119.41	119.56	119.49	65.74	66.09	65.92	35.65	35.75	35.70
C8n.1n (o)	25.951	25.444	25.248	Pälike et al. 2006	121.47	121.70	121.59	67.24	67.39	67.32	36.10	36.25	36.18
C8n.2n (y)	25.992	25.492	25.306	Pälike et al. 2006	122.00	122.23	122.12	67.44	67.79	67.62	36.25	36.35	36.30
C8n.2n (o)	26.554	26.154	26.032	Pälike et al. 2006	131.00	131.53	131.27	72.09	73.00	72.55	39.20	39.25	39.23
C9n (y)	27.027	26.714	26.508	Pälike et al. 2006	137.53	137.61	137.57	79.18	79.63	79.41	40.95	41.10	41.03
C9n (o)	27.972	27.826	27.412	Pälike et al. 2006	151.47	151.78	151.63	92.67	93.07	92.87	43.79	44.19	43.99
C10n.1n (y)	28.283	28.186	27.886	Pälike et al. 2006	157.76	157.78	157.77	98.47	99.12	98.80	45.69	45.89	45.79
C10n.1n (o)	28.512	28.450	28.126	Pälike et al. 2006	161.25	161.27	161.26	101.57	102.17	101.87	46.84	46.89	46.87
C10n.2n (y)	28.578	28.525	28.164	Pälike et al. 2006	161.85	162.38	162.12	102.37	102.82	102.60	47.09	47.14	47.12
C10n.2n (o)	28.745	28.715	28.318	Pälike et al. 2006	164.02	164.15	164.09	104.02	104.57	104.30	47.59	47.69	47.64
C11n.1n (y)	29.401	29.451	29.166	Pälike et al. 2006	177.41	178.69	178.05				53.54	53.64	53.59
C11n.1n (o)	29.662	29.740	29.467	Pälike et al. 2006	184.31	184.33	184.32				55.69	55.74	55.72
C11n.2n (y)	29.765	29.853	29.536	Pälike et al. 2006	185.19	185.43	185.31				55.99	56.09	56.04
C11n.2n (o)	30.098	30.217	29.957	Pälike et al. 2006	189.59	190.68	190.14				57.44	57.59	57.52
C12n (y)	30.479	30.627	30.617	Pälike et al. 2006				137.45	138.77	138.11	59.69	59.84	59.77
C12n (o)	30.939	31.116	31.021	Pälike et al. 2006				142.77	142.87	142.82	61.09	61.24	61.17
C13n (y)	33.058	33.266	33.232	Pälike et al. 2006				169.73	169.80	169.77	74.57	74.82	74.70
C13n (o)	33.545	33.738	33.705	Pälike et al. 2006				173.42	173.43	173.43	76.89	77.04	76.97
C15n (y)	34.655	34.782	35.126	Pälike et al. 2006				180.11	180.21	180.16	82.72	82.78	82.75
C15n (o)	34.940	35.043	35.254	Pälike et al. 2006				Core gap			83.52	84.07	83.80
C16n.1n (y)	35.343	35.404	35.328	Pälike et al. 2006				181.74	181.84	181.79	85.42	85.77	85.60
C16n.1n (o)	35.526	35.567	35.554	Pälike et al. 2006				182.49	182.54	182.52	86.52	86.82	86.67
C16n.2n (y)	35.685	35.707	35.643	Pälike et al. 2006				183.04	183.09	183.07	87.25	87.50	87.38
C16n.2n (o)	36.341	36.276	36.355	Pälike et al. 2006				187.39	187.54	187.47	91.25	91.35	91.30
C17n.1n (y)	36.618	36.512	36.668	Pälike et al. 2006				188.89	188.94	188.92	92.75	92.85	92.80
C17n.1n (o)	37.473	37.235	37.520	Pälike et al. 2006				193.89	193.99	193.94	97.71	97.76	97.74
C17n.2n (y)	37.604	37.345	37.656	Pälike et al. 2006				194.69	195.09	194.89	98.36	98.51	98.44
C17n.2n (o)	37.848	37.549	37.907	Pälike et al. 2006				195.84	196.29	196.07	99.46	99.61	99.54
C17n.3n (y)	37.920	37.610	37.956	Pälike et al. 2006				196.29	196.54	196.42	99.81	99.86	99.84
C17n.3n (o)	38.113	37.771	38.159	Pälike et al. 2006				197.29	197.44	197.37	100.57	100.67	100.62
C18n.1n (y)	38.426	38.032	38.449	Pälike et al. 2006				198.69	199.24	198.97	101.87	101.97	101.92
C18n.1n (o)	39.552	38.975	39.554	Pälike et al. 2006				206.87	206.97	206.92	108.92	109.12	109.02
C18n.2n (y)	39.631	39.041	39.602	Pälike et al. 2006				207.37	207.57	207.47	109.83	110.12	109.98
C18n.2n (o)	40.130	39.464	40.084	Pälike et al. 2006				211.27	211.72	211.50	114.10	114.20	114.15
C19n (y)	41.257	40.439	41.358	Pälike et al. 2006				224.09	224.64	224.37	124.20	124.40	124.30

Table T31 (continued).

Chron	CK95	GPTS2004	Expedition 320 Age	Expedition 320 Source	Site 1218 depth Top (corrected rmcd)	Site 1218 depth Bottom (corrected rmcd)	Site 1218 depth Middle (corrected rmcd)	Site 1219 depth Top (corrected rmcd)	Site 1219 depth Bottom (corrected rmcd)	Site 1219 depth Middle (corrected rmcd)	Site 1220 depth Top (corrected rmcd)	Site 1220 depth Bottom (corrected rmcd)	Site 1220 depth Middle (corrected rmcd)
C19n (o)	41.521	40.671	41.510	Pälike et al. 2006				225.89	226.19	226.04	125.35	125.40	125.38
C20n (y)	42.536	41.590	42.536	Cande and Kent, 1995				232.19	232.39	232.29	130.45	130.75	130.60
C20n (o)	43.789	42.774	43.789	Cande and Kent, 1995				243.64	244.59	244.12	141.38	141.48	141.43
C21n (y)	46.264	45.346	46.264	Cande and Kent, 1995									
C21n (o)	47.906	47.235	47.906	Cande and Kent, 1995									
C22n (y)	49.037	48.599	49.037	Cande and Kent, 1995									
C22n (o)	49.714	49.427	49.714	Cande and Kent, 1995									
C23n.1n (y)	50.778	50.730	50.778	Cande and Kent, 1995									
C23n.1n (o)	50.946	50.932	50.946	Cande and Kent, 1995									
C23n.2n (y)	51.047	51.057	51.047	Cande and Kent, 1995									
C23n.2n (o)	51.743	51.901	51.743	Cande and Kent, 1995									

Site 1219 data is from Pälike et al. (2005).

Table T32. Site U1331 radiolarian datums. (Continued on next page.)

Source	Event	Zone	Age* (Ma)	Core, section, interval (cm) Top	Core, section, interval (cm) Bottom	Depth (mbsf [m CSF-A]) Top	Depth (mbsf [m CSF-A]) Bottom	Depth (rmcd [adjusted m revised CCSF-A]) Top	Depth (rmcd [adjusted m revised CCSF-A]) Bottom	Depth (rmcd [adjusted m revised CCSF-A]) Mean	Error (±) (m)	Depth Site 1220 (rmcd) Top	Depth Site 1220 (rmcd) Bottom	Depth Site 1220 (rmcd) Mean	Error (±) (m)
				320-U1331A-	320-U1331A-										
Ship	B *Theocyrtis annosa*	RP21	28.330	2H-2,104–106	2H-4, 104–106	7.75	10.75	9.25	12.25	10.75	1.50				
Ship	T *Tristylospyris triceros* > *Dorcadospyris ateuchus*		28.600	2H-4, 104–106	2H-CC	10.75	14.81	12.25	16.37	14.31	2.06		59.93		
Ship	B *Dorcadospyris ateuchus*		29.501	2H-4, 104–106	2H-CC	10.75	14.81	12.25	16.37	14.31	2.06		59.93		
Ship	B *Dorcadospyris circulus*		29.960	2H-CC	3H-3, 126–128	14.81	18.97	16.37	21.88	19.13	2.76	59.93	67.60	63.76	3.84
Ship	T *Lithocyclia crux*		30.130	2H-CC	3H-3, 126–128	14.81	18.97	16.37	21.88	19.13	2.76	59.93	67.60	63.76	3.84
Ship	B *Eucyrtidium plesiodiaphanes*		30.567	2H-CC	3H-3, 126–128	14.81	18.97	16.37	21.88	19.13	2.76	59.93	67.60	63.76	3.84
Ship	B *Lophocyrtis* (*C.*) *pegetrum*		30.675	2H-CC	3H-3, 126–128	14.81	18.97	16.37	21.88	19.13	2.76	59.93	67.60	63.76	3.84
Ship	T *Lophocyrtis* (*S.*) *oberhaensliae*		30.740	3H-3, 126–129	3H-5, 121–124	18.97	21.92	21.88	24.83	23.36	1.48	67.60	71.65	69.63	2.02
Ship	B *Dorcadospyris spinosa*		30.842	3H-3, 126–129	3H-5, 121–124	18.97	21.92	21.88	24.83	23.36	1.48	67.60	71.65	69.63	2.02
Ship	T *Dorcadospyris pseudopapilio*		30.842	3H-3, 126–129	3H-5, 121–124	18.97	21.92	21.88	24.83	23.36	1.48	67.60	71.65	69.63	2.02
Ship	T *Centrobotrys gravida*	RP20	30.893	3H-5, 121–124	3H-CC	21.92	24.12	24.83	27.07	25.95	1.12	71.65	74.14	72.89	1.24
Ship	B *Theocyrtis tuberosa*		31.000	3H-CC	4H-2, 104–106	24.12	26.75	27.07	30.01	28.54	1.47	74.14	78.27	76.20	2.07
Ship	B *Dorcadospyris pseudopapilio*		31.003	3H-CC	4H-2, 104–106	24.12	26.75	27.07	30.01	28.54	1.47	74.14	78.27	76.20	2.07
Ship	B *Centrobotrys gravida*		31.008	3H-CC	4H-2, 104–106	24.12	26.75	27.07	30.01	28.54	1.47	74.14	78.27	76.20	2.07
Ship	B *Lithocyclia crux*		31.008	3H-CC	4H-2, 104–106	24.12	26.75	27.07	30.01	28.54	1.47	74.14	78.27	76.20	2.07
Ship	T *Calocycletta anekathen*		33.652	3H-CC	4H-2, 104–106	24.12	26.75	27.07	30.01	28.54	1.47	74.14	78.27	76.20	2.07
Ship	T *Lophocyrtis* (*L.*) *jacchia*		33.693	3H-CC	4H-2, 104–106	24.12	26.75	27.07	30.01	28.54	1.47	74.14	78.27	76.20	2.07
Ship	T *Dictyoprora armadillo*		33.693	3H-CC	4H-2, 104–106	24.12	26.75	27.07	30.01	28.54	1.47	74.14	78.27	76.20	2.07
Ship	T *Lychnocanoma amphitrite*		33.753	3H-CC	4H-2, 104–106	24.12	26.75	27.07	30.01	28.54	1.47	74.14	78.27	76.20	2.07
Ship	*Lithocyclia aristotelis* > *Lithocyclia angusta*		33.820	3H-CC	4H-2, 104–106	24.12	26.75	27.07	30.01	28.54	1.47	74.14	78.27	76.20	2.07
Ship	B *Lithocyclia angusta*	RP19	34.125	4H-2, 104–106	4H-4, 104–106	26.75	29.75	30.01	33.01	31.51	1.50	78.27	82.39	80.33	2.06
Ship	T *Calocyclas bandyca*		34.616	4H-2, 104–106	4H-4, 104–106	26.75	29.75	30.01	33.01	31.51	1.50	78.27	82.39	80.33	2.06
Ship	T *Thyrsocyrtis* (*P.*) *tetracantha*		35.300	4H-4, 104–106	4H-CC	29.75	33.95	33.01	37.21	35.11	2.10	82.39	86.93	84.66	2.27
Ship	B *Lophocyrtis* (*C.*) *hadra*		35.338	4H-CC	5H-2, 104–106	33.95	36.25	37.21	41.50	39.36	2.15	86.93	89.50	88.21	1.28
Ship	T *Lychnocanoma turgidum*	RP18	35.772	4H-CC	5H-2, 104–106	33.95	36.25	37.21	41.50	39.36	2.15	86.93	89.50	88.21	1.28
Ship	T *Lychnocanoma amphitrite*		36.499	5H-4, 104–106	5H-CC	39.25	42.77	44.50	48.16	46.33	1.83	92.56	95.81	94.18	1.62
Ship	B *Calocyclas bandyca*		36.744	5H-4, 104–106	5H-CC	39.25	42.77	44.50	48.16	46.33	1.83	92.56	95.81	94.18	1.62
Ship	B *Lophocyrtis* (*L.*) *jacchia*	RP17	37.065	5H-4, 104–106	5H-CC	39.25	42.77	44.50	48.16	46.33	1.83	92.56	95.81	94.18	1.62
Ship	B *Thyrsocyrtis* (*P.*) *lochites*		37.519	6H-2, 105–107	6H-4, 105–107	45.75	48.75	52.91	55.91	54.41	1.50	100.47	102.61	101.54	1.07
Ship	B *Cryptocarpium azyx*		37.519	6H-2, 105–107	6H-4, 105–107	45.75	48.75	52.91	55.91	54.41	1.50	100.47	102.61	101.54	1.07
Ship	T *Anthocyrtoma* spp.		37.916	6H-4, 105–107	6H-CC	48.75	52.46	55.91	59.65	57.78	1.87	102.61	104.90	103.75	1.14
Ship	B *Thyrsocyrtis* (*T.*) *bromia*		38.068	6H-4, 105–107	6H-CC	48.75	52.46	55.91	59.65	57.78	1.87	102.61	104.90	103.75	1.14
Ship	B *Thyrsocyrtis* (*P.*) *tetracantha*		38.118	6H-4, 105–107	6H-CC	48.75	52.46	55.91	59.65	57.78	1.87	102.61	104.90	103.75	1.14
Ship	T *Dorcadospyris anastasis*	RP16	38.447	6H-CC	7H-2, 95–97	52.46	55.16	59.65	64.97	62.31	2.66	104.90	108.36	106.63	1.73
Ship	B *Calocyclas turris*		38.667	6H-CC	7H-2, 95–97	52.46	55.16	59.65	64.97	62.31	2.66	104.90	108.36	106.63	1.73
Ship	B *Lithocyclia aristotelis* gr.		39.725	7H-2, 95–97	7H-4, 95–97	55.16	58.16	64.97	67.97	66.47	1.50	108.36	110.60	109.48	1.12
Ship	B *Dorcadospyris anastasis*		39.979	7H-4, 95–97	7H-CC	58.16	62.49	67.97	72.30	70.14	2.17	110.60	113.46	112.03	1.43
Ship	B *Podocyrtis goetheana*		40.156	7H-4, 95–97	7H-CC	58.16	62.49	67.97	72.30	70.14	2.17	110.60	113.46	112.03	1.43
Ship	T *Lophocyrtis biaurita*	RP15	40.362	8H-4, 104–106	8H-CC	67.75	72.00	78.52	82.77	80.65	2.13	116.60	118.61	117.61	1.01
Ship	*Podocyrtis mitra* > *Podocyrtis chalara*		40.700	9H-4, 105–107	9H-CC	77.26	81.47	88.62	92.83	90.73	2.11	121.38	123.37	122.37	1.00
Ship	T *Podocyrtis trachodes*		41.227	10H-2, 95–97	10H-4, 95–97	83.66	86.66	94.54	97.54	96.04	1.50	124.18	125.03	124.60	0.43
Ship	B *Podocyrtis chalara*		41.542	10H-4, 95–97	10H-CC	86.66	90.29	97.54	100.92	99.23	1.69	125.03	126.15	125.59	0.56
Ship	B *Cryptocarpium ornatum*		42.098	10H-CC	11H-3, 106–108	90.29	93.95	100.92	106.57	103.75	2.83	126.15	128.24	127.19	1.05
Ship	B *Sethochytris triconiscus*		42.403	11H-3, 106–108	11H-5, 106–108	93.95	96.95	106.57	110.17	108.37	1.80	128.24	129.58	128.91	0.67
Ship	T *Eusyringium lagena*	RP14	42.687	11H-5, 106–108	11H-CC	96.95	99.32	110.17	112.54	111.36	1.19	129.58	130.46	130.02	0.44
Ship	B *Theocyrtis perpumila*		42.972	11H-CC	12H-2, 106–108	99.32	102.77	112.54	118.85	115.70	3.15	130.46	133.28	131.87	1.41
Ship	T *Podocyrtis helenae*		43.053	12H-2, 106–108	12H-4, 106–108	102.77	105.77	118.85	121.90	120.38	1.53	133.28	134.67	133.98	0.69
Ship	B *Podocyrtis trachodes*		43.219	12H-4, 106–108	12H-CC	105.77	109.99	121.90	126.46	124.18	2.28	134.67	136.74	135.70	1.03
Ship	B *Zygocircus cimelium*		43.351	12H-4, 106–108	12H-CC	105.77	109.99	121.90	126.46	124.18	2.28	134.67	136.74	135.70	1.03

Table T32 (continued).

Source	Event	Zone	Age* (Ma)	Core, section, interval (cm)		Depth (mbsf [m CSF-A])		Depth (rmcd [adjusted m revised CCSF-A])			Error (±) (m)	Depth Site 1220 (rmcd)			Error (±) (m)
				Top	Bottom	Top	Bottom	Top	Bottom	Mean		Top	Bottom	Mean	
Ship	*Podocyrtis sinuosa* > *Podocyrtis mitra*		43.840	13H-2, 104–106	13H-4, 104–106	112.25	115.25	130.22	133.22	131.72	1.50	138.44	139.80	139.12	0.68
Ship	B *Podocyrtis helenae*	RP13	44.145	13H-4, 104–106	13H-CC	115.25	119.38	133.22	137.35	135.29	2.07	139.80			
Ship	T *Podocyrtis phyxis*		44.444	13H-CC	14H-2, 104–106	119.38	121.72	137.35	140.81	139.08	1.73				
Ship	*Podocyrtis phyxis* > *Podocyrtis ampla*		44.770	14H-2, 104–106	14H-4, 104–106	121.72	124.72	140.81	143.81	142.31	1.50				
Ship	T *Theocotyle venezuelensis*		45.164	14H-4, 104–106	14H-CC	124.72	128.58	143.81	147.62	145.72	1.91				
Ship	T *Theocorys anaclasta*		45.616	14H-CC	15H-2, 94–96	128.58	131.15	147.62	151.73	149.68	2.05				
Ship	T *Theocotyle cryptocephala*		46.013	15H-2, 94–96	15H-4, 94–96	131.15	134.15	151.73	155.03	153.38	1.65				
Ship	B *Thyrsocyrtis orthotenes*	RP12	46.160	15H-CC	16X-1, 50–52	138.47	138.71	159.43	158.52	158.98	–0.45				
Ship	T *Thyrsocyrtis hirsuta*		46.185	15H-CC	16X-1, 50–52	138.47	138.71	159.43	158.52	158.98	–0.45				
Ship	B *Podocyrtis phyxis*		46.435	16X-1, 50–52	16X-CC	138.71	139.27	158.52	159.08	158.80	0.28				
Ship	B *Rhopalocanium ornatum*		47.419	16X-CC	17X-2, 104–106	139.27	150.15	159.08	170.55	164.82	5.74				
Ship	B *Thyrsocyrtis* (*P.*) *triacantha*		47.419	16X-CC	17X-2, 104–106	139.27	150.15	159.08	170.55	164.82	5.74				
Ship	B *Eusyringium lagena*		47.419	16X-CC	17X-2, 104–106	139.27	150.15	159.08	170.55	164.82	5.74				
Ship	T *Phormocyrtis striata striata*	RP11	48.141	17X-4, 104–106	19X-CC	153.15	162.10	173.55	182.50	178.03	4.47				
Ship	B *Dictyoprora mongolfieri*		48.500	19X-2, 25–27	19X-CC	161.75	162.10	182.15	182.50	182.33	0.17				
Ship	*Theocotyle nigriniae* > *Theocotyle cryptocephala*	RP10	49.000	19X-CC	20X-CC	162.10	167.02	182.50	187.42	184.96	2.46				

* = Nigrini et al. (2006). T = top, B = bottom.

Table T33. Site U1332 radiolarian datums. (Continued on next page.)

Source	Event	Zone	Age* (Ma)	Core, section, interval (cm)		Depth (mbsf [m CSF-A])		Depth (rmcd [adjusted m revised CCSF-A])			Error (±) (m)	Depth Site 1220 (rmcd)			Error (±) (m)
				Top	Bottom	Top	Bottom	Top	Bottom	Mean		Top	Bottom	Mean	
				320-U1332A-	320-U1332A-										
Ship	B *Cyrtocapsella cornuta*	RN1	22.260	3H-2, 93–95	3H-4, 93–95	15.87	18.83	16.52	19.48	18.00	1.48	22.77	25.71	24.24	1.47
Ship	B *Cyrtocapsella tetrapera*		22.350	3H-4, 93–95	3H-CC	18.83	23.52	19.48	23.65	21.57	2.09	25.71	29.52	27.61	1.90
Ship	T *Artophormis gracilis*		22.620	3H-4, 93–95	3H-CC	18.83	23.52	19.48	23.65	21.57	2.09	25.71	29.52	27.61	1.90
Ship	B *Didymocyrtis bassanii*		22.930	3H-4, 93–95	3H-CC	18.83	23.52	19.48	23.65	21.57	2.09	25.71	29.52	27.61	1.90
Ship	B *Eucyrtidium diaphanes*		22.950	3H-4, 93–95	3H-CC	18.83	23.52	19.48	23.65	21.57	2.09	25.71	29.52	27.61	1.90
Ship	T *Dorcadospyris cyclacantha*	RP22	22.980	3H-4, 93–95	3H-CC	18.83	23.52	19.48	23.65	21.57	2.09	25.71	29.52	27.61	1.90
Ship	T *Dorcadospyris riedeli*		23.010	3H-4, 93–95	3H-CC	18.83	23.52	19.48	23.65	21.57	2.09	25.71	29.52	27.61	1.90
Ship	B *Dorcadospyris cyclacantha*		23.290	3H-CC	4H-2, 105–107	23.52	25.50	23.65	28.05	25.85	2.20	29.52	33.67	31.60	2.08
Ship	T *Liriospyris longicornuta*		24.120	4H-2, 105–107	4H-4, 105–107	25.50	28.45	28.05	31.00	29.53	1.48	33.67	36.89	35.28	1.61
Ship	B *Lychnocanoma elongata*		25.050	4H-4, 105–107	4H-CC	28.45	32.96	31.00	35.85	33.43	2.43	36.89	41.74	39.32	2.43
Ship	B *Dorcadospyris praeforcipata*		25.270	4H-4, 105–107	4H-CC	28.45	32.96	31.00	35.85	33.43	2.43	36.89	41.74	39.32	2.43
Ship	B *Calocycletta* (*C.*) *robusta*		25.270	4H-4, 105–107	4H-CC	28.45	32.96	31.00	35.85	33.43	2.43	36.89	41.74	39.32	2.43
Ship	B *Didymocyrtis tubaria*		25.270	4H-2, 105–107	4H-4, 105–107	25.50	28.45	28.05	31.00	29.53	1.48	33.67	36.89	35.28	1.61
Ship	B *Liriospyris longicornuta*		25.290	4H-4, 105–107	4H-CC	28.45	32.96	31.00	35.85	33.43	2.43	36.89	41.74	39.32	2.43
Ship	B *Dorcadospyris scambos*	RP21	25.330	4H-4, 105–107	4H-CC	28.45	32.96	31.00	35.85	33.43	2.43	36.89	41.74	39.32	2.43
Ship	T *Dorcadospyris circulus* (continuous)		26.170	4H-4, 105–107	4H-CC	28.45	32.96	31.00	35.85	33.43	2.43	36.89	41.74	39.32	2.43
Ship	T *Eucyrtidium plesiodiaphanes*		26.400	4H-CC	5H-2, 110–112	32.96	35.04	35.85	39.98	37.92	2.07	41.74	44.84	43.29	1.55
Ship	T *Lithocyclia angusta*		27.680	5H-2, 110–112	5H-4, 105–107	35.04	37.94	39.98	43.02	41.50	1.52	44.84	47.82	46.33	1.49
Ship	T *Theocyrtis setanios*		28.210	5H-4, 105–107	5H-CC	37.94	42.48	43.02	47.44	45.23	2.21	47.82	52.27	50.04	2.23
Ship	B *Theocyrtis annosa*		28.330	6H-2, 105–107	6H-4, 105–107	44.46	47.46	49.96	52.96	51.46	1.50	54.53	56.94	55.74	1.21
Ship	*Tristylospyris triceros* > *Dorcadospyris ateuchus*		28.600	5H-CC	6H-2, 105–107	42.48	44.46	47.44	49.96	48.70	1.26	52.27	54.53	53.40	1.13
Ship	B *Dorcadospyris ateuchus*		29.503	6H-2, 105–107	6H-4, 105–107	44.46	47.46	49.96	52.96	51.46	1.50	54.53	56.94	55.74	1.21
Ship	B *Eucyrtidium mitodes*		29.410	6H-4, 105–107	6H-CC	47.46	51.98	52.96	57.46	55.21	2.25	56.94	59.94	58.44	1.50
Ship	B *Dorcadospyris circulus*		29.960	6H-4, 105–107	6H-CC	47.46	51.98	52.96	57.46	55.21	2.25	56.94	59.94	58.44	1.50
Ship	T *Theocyrtis tuberosa*		30.130	6H-CC	7H-3, 100–102	51.98	55.40	57.46	63.02	60.24	2.78	59.94	64.60	62.27	2.33
Ship	T *Lithocyclia crux*		30.130	6H-CC	7H-3, 100–102	51.98	55.40	57.46	63.02	60.24	2.78	59.94	64.60	62.27	2.33
Ship	B *Eucyrtidium plesiodiaphanes*		30.370	6H-CC	7H-3, 100–102	51.98	55.40	57.46	63.02	60.24	2.78	59.94	64.60	62.27	2.33
Ship	T *Lophocyrtis* (*S.*) *oberhaensliae*		30.740	7H-3, 100–102	7H-5, 100–102	55.40	58.41	63.02	66.04	64.53	1.51	64.60	66.88	65.74	1.14
Ship	B *Dorcadospyris spinosa*		30.840	7H-5, 100–102	7H-CC	58.41	61.50	66.04	68.64	67.34	1.30	66.88	68.81	67.85	0.96
Ship	T *Dorcadospyris pseudopapilio*		30.840	7H-CC	8H-2, 105–107	61.50	63.45	68.64	70.85	69.75	1.11	68.81	70.45	69.63	0.82
Ship	T *Centrobotrys gravida*	RP20	30.890	7H-CC	8H-2, 105–107	61.50	63.45	68.64	70.85	69.75	1.11	68.81	70.45	69.63	0.82
Ship	B *Lithocyclia crux*		31.000	8H-4, 105–107	8H-CC	66.45	71.01	73.80	78.03	75.92	2.12	73.65	77.04	75.35	1.69
Ship	B *Theocyrtis tuberosa*		31.000	8H-4, 105–107	8H-CC	66.45	71.01	73.80	78.03	75.92	2.12	73.65	77.04	75.35	1.69
Ship	B *Dorcadospyris pseudopapilio*		31.000	9H-1, 92–98	9H-3, 92–98	71.35	74.38	73.77	76.98	75.38	1.61	73.63	76.17	74.90	1.27
Ship	B *Centrobotrys gravida*		31.010	8H-4, 105–107	8H-CC	66.45	71.01	73.80	78.03	75.92	2.12	73.65	77.04	75.35	1.69
Ship	T *Thyrsocyrtis* (*P.*) *triacantha*		33.340	9H-3, 92–98 (8H-4, 105)	9H-5, 92–98 (8H-CC)	74.37	77.34	76.98	79.97	78.48	1.50	76.17	79.43	77.80	1.63
Ship	T *Lithocyclia aristotelis* gr.		33.510	9H-3, 92–98	9H-5, 92–98	74.37	77.34	76.98	79.97	78.48	1.50	76.17	79.43	77.80	1.63
Ship	T *Calocyclas hispida*		33.620	9H-3, 92–98	9H-5, 92–98	74.37	77.34	76.98	79.97	78.48	1.50	76.17	79.43	77.80	1.63
Ship	T *Cryptocarpium ornatum*		33.620	9H-3, 92–98	9H-5, 92–98	74.37	77.34	76.98	79.97	78.48	1.50	76.17	79.43	77.80	1.63
Ship	T *Lychnocanoma babylonis*		33.750	9H-3, 92–98	9H-5, 92–98	74.37	77.34	76.98	79.97	78.48	1.50	76.17	79.43	77.80	1.63
Ship	*Lithocyclia aristotelis* > *Lithocyclia angusta*		33.820	9H-5, 92–98	9H-CC	77.34	80.52	79.97	83.15	81.56	1.59	79.43	83.70	81.56	2.13
Ship	T *Dorcadospyris copelata*		33.840	9H-5, 92–98	9H-CC	77.34	80.52	79.97	83.15	81.56	1.59	79.43	83.70	81.56	2.13
Ship	B *Lithocyclia angusta*	RP19	34.130	9H-CC	10H-2, 94–96	80.52	82.34	83.15	86.09	84.62	1.47	83.70	87.29	85.49	1.80
Ship	T *Calocyclas bandyca*		34.620	9H-CC	10H-2, 94–96	80.52	82.34	83.15	86.09	84.62	1.47	83.70	87.29	85.49	1.80
Ship	T *Thyrsocyrtis* (*P.*) *tetracantha*		35.300	9H-CC	10H-2, 94–96	80.52	82.34	83.15	86.09	84.62	1.47	83.70	87.29	85.49	1.80
Ship	B *Lophocyrtis* (*C.*) *hadra*	RP18	35.340	10H-2, 94–96	10H-4, 94–96	82.34	85.34	86.09	88.76	87.43	1.34	87.29	90.73	89.01	1.72
Ship	B *Calocyclas bandyca*		36.740	10H-4, 94–96	10H-CC	85.34	89.90	88.76	93.20	90.98	2.22	90.73	95.25	92.99	2.26
Ship	B *Lophocyrtis* (*L.*) *jacchia*	RP17	37.060	10H-CC	11H-2, 105–107	89.90	91.94	93.20	95.32	94.26	1.06	95.25	97.22	96.24	0.98

Table T33 (continued).

Source	Event	Zone	Age* (Ma)	Core, section, interval (cm) Top	Core, section, interval (cm) Bottom	Depth (mbsf [m CSF-A]) Top	Depth (mbsf [m CSF-A]) Bottom	Depth (rmcd [adjusted m revised CCSF-A]) Top	Depth (rmcd [adjusted m revised CCSF-A]) Bottom	Depth (rmcd [adjusted m revised CCSF-A]) Mean	Error (±) (m)	Depth Site 1220 (rmcd) Top	Depth Site 1220 (rmcd) Bottom	Depth Site 1220 (rmcd) Mean	Error (±) (m)
Ship	B *Cryptocarpium azyx*		37.520	11H-2, 105–107	11H-4, 105–107	91.94	94.94	95.32	98.32	96.82	1.50	97.22	100.33	98.77	1.55
Ship	T *Anthocyrtoma* spp.		37.920	11H-4, 105–107	11H-CC	94.94	98.53	98.32	101.91	100.12	1.80	100.33	103.56	101.94	1.62
Ship	B *Thyrsocyrtis* (*T.*) *bromia*		38.070	11H-4, 105–107	11H-CC	94.94	98.53	98.32	101.91	100.12	1.80	100.33	103.56	101.94	1.62
Ship	B *Thyrsocyrtis* (*P.*) *tetracantha*		38.120	11H-4, 105–107	11H-CC	94.94	98.53	98.32	101.91	100.12	1.80	100.33	103.56	101.94	1.62
Ship	T *Dorcadospyris anastasis*	RP16	38.450	12H-2, 105–107	12H-4, 105–107	101.46	104.46	107.68	110.68	109.18	1.50	108.60	112.03	110.32	1.71
Ship	B *Calocyclas turris*		38.670	11H-CC	12H-2, 105–107	98.53	101.46	101.91	107.68	104.80	2.89	103.56	108.60	106.08	2.52
Ship	B *Lithocyclia aristotelis* gr.		39.730	12H-2, 105–107	12H-4, 105–107	101.46	104.46	107.68	110.68	109.18	1.50	108.60	112.03	110.32	1.71
Ship	B *Dorcadospyris anastasis*		39.980	12H-4, 105–107	12H-CC	104.46	108.46	110.68	115.16	112.92	2.24	112.03	116.07	114.05	2.02
Ship	B *Podocyrtis goetheana*		40.160	12H-4, 105–107	12H-CC	104.46	108.46	110.68	115.16	112.92	2.24	112.03	116.07	114.05	2.02
Ship	T *Lophocyrtis biaurita*	RP15	40.360	12H-4, 105–107	12H-CC	104.46	108.46	110.68	115.16	112.92	2.24	112.03	116.07	114.05	2.02
Ship	*Podocyrtis mitra* > *Podocyrtis chalara*		40.700	13H-CC	14H-2, 104–106	118.39	120.44	127.31	133.22	130.27	2.96	124.80	127.63	126.21	1.41
Ship	T *Podocyrtis trachodes*		41.230	13H-CC	14H-2, 104–106	118.39	120.44	127.31	133.22	130.27	2.96	124.80	127.63	126.21	1.41
Ship	B *Podocyrtis chalara*		41.540	14H-2, 104–106	14H-4, 104–106	120.44	123.45	133.22	136.45	134.84	1.61	127.63	129.39	128.51	0.88
Ship	B *Cryptocarpium ornatum*		42.100	14H-4, 104–106	14H-CC	123.45	126.29	136.45	139.97	138.21	1.76	129.39	131.96	130.68	1.29
Ship	B *Sethochytris triconiscus*		42.400	14H-CC	15X-3, 42–44	126.29	129.36	139.97	142.86	141.42	1.45	131.96			
Ship	T *Eusyringium lagena*	RP14	42.690	14H-CC	15X-3, 42–44	126.29	129.36	139.97	142.86	141.42	1.45	131.96			
Ship	B *Theocyrtis perpumila*		42.970	14H-CC	15X-3, 42–44	126.29	129.36	139.97	142.86	141.42	1.45	131.96			
Ship	T *Podocyrtis helenae*		43.050	14H-CC	15X-3, 42–44	126.29	129.36	139.97	142.86	141.42	1.45	131.96			
Ship	B *Podocyrtis trachodes*		43.220	16X-1, 41–49	16X-1, 112–120	135.94	136.66	149.44	150.16	149.80	0.36				
Ship	B *Zygocircus cimelium*		43.350	15X-5, 40–42	15X-CC	132.30	132.93	145.80	146.43	146.12	0.31				
Ship	*Podocyrtis sinuosa* > *Podocyrtis mitra*		43.840	16X-1, 112–120	16X-2, 37–44	136.66	137.36	150.16	150.86	150.51	0.35				
				320-U1332C-	320-U1332C-										
Ship	B *Podocyrtis helenae*		44.140	15X-CC	16X-CC	127.43	134.43	138.58	146.25	142.42	3.83				
Ship	T *Podocyrtis phyxis*		44.440	15X-CC	16X-CC	127.43	134.43	138.58	146.25	142.42	3.83				
Ship	T *Podocyrtis diamesa*	RP13	44.440	15X-CC	16X-CC	127.43	134.43	138.58	146.25	142.42	3.83				
Ship	B *Podocyrtis mitra*		44.770	16X-CC	17X-CC	134.43	139.85	146.25	151.67	148.96	2.71				
Ship	B *Podocyrtis ampla*		44.770	16X-CC	17X-CC	134.43	139.85	146.25	151.67	148.96	2.71				
Ship	*Podocyrtis phyxis* > *Podocyrtis ampla*		44.770	16X-CC	17X-CC	134.43	139.85	146.25	151.67	148.96	2.71				

* = Nigrini et al. (2006). T = top, B = bottom.

Table T34. Site U1333 radiolarian datums. (Continued on next page.)

Source	Event	Zone	Age* (Ma)	Core, section, interval (cm) Top	Core, section, interval (cm) Bottom	Depth (mbsf [m CSF-A]) Top	Depth (mbsf [m CSF-A]) Bottom	Depth (rmcd [adjusted m revised CCSF-A]) Top	Depth (rmcd [adjusted m revised CCSF-A]) Bottom	Depth (rmcd [adjusted m revised CCSF-A]) Mean	Error (±) (m)	Depth Site 1218 (corrected rmcd) Top	Depth Site 1218 (corrected rmcd) Bottom	Depth Site 1218 (corrected rmcd) Mean	Error (±) (m)
				320-U1333A-	320-U1333A-										
Ship	B *Stichocorys delmontensis*	RN2	20.680	1H-2, 104–106	1H-4, 104–106	2.55	5.55	7.21	10.21	8.71	1.50	72.34	76.82	74.58	2.24
Ship	T *Lophocyrtis* (C.) *pegetrum*		20.890	1H-4, 104–106	1H-CC	5.55	9.92	10.21	14.62	12.42	2.21	76.82	85.40	81.11	4.29
Ship	T *Theocyrtis annosa*		21.380	1H-4, 104–106	1H-CC	5.55	9.92	10.21	14.62	12.42	2.21	76.82	85.40	81.11	4.29
Ship	B *Calocycletta* (C.) *virginis*	RN1	21.390	1H-4, 104–106	1H-CC	5.55	9.92	10.21	14.62	12.42	2.21	76.82	85.40	81.11	4.29
Ship	B *Lophocyrtis* (C.) *leptetrum*		21.420	2H-4, 104–106	2H-CC	15.05	19.57	18.58	23.05	20.82	2.24	88.50	103.69	96.10	7.59
Ship	T *Eucyrtidium mitodes*		21.950	2H-2, 104–106	2H-4, 104–106	12.05	15.04	15.70	18.57	17.14	1.44	83.85	92.27	88.06	4.21
Ship	B *Calocycletta* (C.) *serrata*		22.040	1H-4, 104–106	1H-CC	5.55	9.92	10.21	14.62	12.42	2.21	76.82	85.40	81.11	4.29
Ship	B *Cyrtocapsella cornuta*		22.260	2H-4, 104–106	2H-CC	15.05	19.57	18.58	23.05	20.82	2.24	88.50	103.69	96.10	7.59
Ship	B *Cyrtocapsella tetrapera*		22.350	2H-4, 104–106	2H-CC	15.05	19.57	18.58	23.05	20.82	2.24	88.50	103.69	96.10	7.59
Ship	T *Artophormis gracilis*	RP22	22.620	2H-4, 104–106	2H-CC	15.05	19.57	18.58	23.05	20.82	2.24	88.50	103.69	96.10	7.59
Ship	B *Didymocyrtis bassanii*		22.930	2H-4, 104–106	2H-CC	15.05	19.57	18.58	23.05	20.82	2.24	88.50	103.69	96.10	7.59
Ship	B *Eucyrtidium diaphanes*		22.950	3H-2, 105–107	3H-4, 105–107	21.56	24.56	28.25	31.08	29.67	1.42	103.26	114.54	108.90	5.64
Ship	T *Dorcadospyris cyclacantha*		22.980	2H-CC	3H-2, 105–107	19.57	21.56	26.41	28.25	27.33	0.92	99.95	105.75	102.85	2.90
Ship	T *Dorcadospyris riedeli*		23.010	4H-5, 106–108	4H-CC	35.57	38.60	42.35	45.17	43.76	1.41	129.95	137.22	133.58	3.64
Ship	B *Dorcadospyris cyclacantha*		23.290	3H-2, 105–107	3H-4, 105–107	21.56	24.56	28.25	31.08	29.67	1.42	103.26	114.54	108.90	5.64
Ship	T *Dorcadospyris papilio*		23.310	3H-2, 105–107	3H-4, 105–107	21.56	24.56	28.25	31.08	29.67	1.42	103.26	114.54	108.90	5.64
Ship	T *Liriospyris longicornuta*		24.120	3H-2, 105–107	3H-4, 105–107	21.56	24.56	28.25	31.08	29.67	1.42	103.26	114.54	108.90	5.64
Ship	T *Acrocubus octopylus*		24.380	3H-4, 105–107	3H-CC	24.56	28.87	31.08	35.38	33.23	2.15	108.25	122.10	115.18	6.93
Ship	T *Lychnocanoma apodora*		24.500	3H-4, 105–107	3H-CC	24.56	28.87	31.08	35.38	33.23	2.15	108.25	122.10	115.18	6.93
Ship	B *Lychnocanoma elongata*		25.050	4H-3, 106–108	4H-5, 106–108	32.57	35.57	40.25	42.35	41.30	1.05	125.21	132.72	128.97	3.75
Ship	B *Acrocubus octopylus*	RP21	25.090	4H-5, 106–108	4H-CC	35.57	38.60	42.35	45.17	43.76	1.41	129.95	137.22	133.58	3.64
Ship	B *Dorcadospyris praeforcipata*		25.270	5H-4, 105–107	5H-CC	43.55	47.65	53.14	57.26	55.20	2.06	144.74	157.14	150.94	6.20
Ship	B *Calocycletta* (C.) *robusta*		25.270	4H-5, 106–108	4H-CC	35.57	38.60	42.35	45.17	43.76	1.41	129.95	137.22	133.58	3.64
Ship	B *Didymocyrtis tubaria*		25.270	4H-5, 106–108	4H-CC	35.57	38.60	42.35	45.17	43.76	1.41	129.95	137.22	133.58	3.64
Ship	B *Liriospyris longicornuta*		25.290	4H-3, 106–108	4H-5, 106–108	32.57	35.57	40.25	42.35	41.30	1.05	125.21	132.72	128.97	3.75
Ship	B *Dorcadospyris scambos*		25.330	4H-3, 106–108	4H-5, 106–108	32.57	35.57	40.25	42.35	41.30	1.05	125.21	132.72	128.97	3.75
Ship	B *Lychnocanoma apodora*		25.550	4H-5, 106–108	4H-CC	35.57	38.60	42.35	45.17	43.76	1.41	129.95	137.22	133.58	3.64
Ship	T *Dorcadospyris circulus* (continuous)		26.170	4H-5, 106–108	4H-CC	35.57	38.60	42.35	45.17	43.76	1.41	129.95	137.22	133.58	3.64
Ship	B *Dorcadospyris riedeli*		26.200	5H-4, 105–107	5H-CC	43.56	47.65	53.15	57.26	55.21	2.06	144.76	157.14	150.95	6.19
Ship	T *Eucyrtidium plesiodiaphanes*		26.400	5H-4, 105–107	5H-CC	43.56	47.65	53.15	57.26	55.21	2.06	144.76	157.14	150.95	6.19
Ship	T *Lithocyclia angusta*		27.680	6H-3, 95–97	6H-5, 95–97	51.46	54.46	63.21	66.21	64.71	1.50	157.22	162.91	160.07	2.85
Ship	T *Theocyrtis setanios*		28.210	6H-5, 95–97	6H-CC	54.46	57.27	66.21	69.02	67.62	1.41	160.94	169.65	165.29	4.36
Ship	B *Theocyrtis annosa*		28.330	7H-4, 95–97	7H-CC	62.46	66.55	75.45	80.01	77.73	2.28	172.26	180.01	176.14	3.87
Ship	B *Dorcadospyris ateuchus*		29.503	7H-4, 95–97	7H-CC	62.46	66.55	75.45	80.01	77.73	2.28	172.26	180.01	176.14	3.87
Ship	*Tristylospyris triceros* > *Dorcadospyris ateuchus*		28.600	7H-4, 95–97	7H-CC	62.46	66.55	75.45	80.01	77.73	2.28	172.26	180.01	176.14	3.87
Ship	B *Eucyrtidium mitodes*	RP20	29.410	8H-2, 108–110	8H-4, 108–110	68.89	71.89	84.27	87.17	85.72	1.45	182.01	188.18	185.10	3.09
Ship	B *Theocyrtis setanios*		29.510	9H-2, 105–107	9H-4, 105–107	78.55	81.56	96.28	99.29	97.79	1.51	195.45	203.30	199.38	3.93
Ship	B *Dorcadospyris circulus*		29.960	9H-2, 105–107	9H-4, 105–107	78.55	81.56	96.28	99.29	97.79	1.51	195.45	203.30	199.38	3.93
Ship	T *Theocyrtis tuberosa*		30.130	9H-CC	10H-2, 105–107	85.87	88.06	103.60	107.48	105.54	1.94	202.68	212.05	207.36	4.69
Ship	T *Lithocyclia crux*		30.130	9H-CC	10H-2, 105–107	85.87	88.06	103.60	107.48	105.54	1.94	202.68	212.05	207.36	4.69
Ship	B *Eucyrtidium plesiodiaphanes*		30.370	9H-CC	10H-2, 105–107	85.87	88.06	103.60	107.48	105.54	1.94	202.68	212.05	207.36	4.69
Ship	T *Lophocyrtis* (*S.*) *oberhaensliae*		30.740	9H-CC	10H-2, 105–107	85.87	88.06	103.60	107.48	105.54	1.94	202.68	212.05	207.36	4.69
Ship	B *Dorcadospyris spinosa*		30.840	11X-2, 95–97	11X-4, 95–97	97.46	100.46	118.18	121.18	119.68	1.50	220.31	228.23	224.27	3.96
Ship	T *Dorcadospyris pseudopapilio*		30.840	11X-2, 95–97	11X-4, 95–97	97.46	100.46	118.18	121.18	119.68	1.50	220.31	228.23	224.27	3.96
Ship	T *Centrobotrys gravida*		30.890	11X-4, 95–97	11X-CC	100.46	101.17	121.18	121.89	121.54	0.35	224.18	225.02	224.60	0.42
Ship	B *Lychnocanoma plesioelongata*			11X-CC	12X-2, 105–107	101.17	103.26	121.89	124.97	123.43	1.54	225.02	230.52	227.77	2.75
Ship	B *Lithocyclia crux*		31.000	12X-2, 105–107	12X-4, 105–107	103.26	106.26	124.97	128.40	126.69	1.72	228.27	237.19	232.73	4.46
Ship	B *Theocyrtis tuberosa*		31.000	12X-4, 105–107	12X-CC	106.26	107.99	128.40	130.19	129.30	0.89	231.66	235.85	233.76	2.09
Ship	B *Dorcadospyris pseudopapilio*		31.000	12X-2, 105–107	12X-4, 105–107	103.26	106.26	124.97	128.40	126.69	1.72	228.27	237.19	232.73	4.46

Table T34 (continued).

Source	Event	Zone	Age* (Ma)	Core, section, interval (cm)		Depth (mbsf [m CSF-A])		Depth (rmcd [adjusted m revised CCSF-A])			Error (±) (m)	Depth Site 1218 (corrected rmcd)			Error (±) (m)
				Top	Bottom	Top	Bottom	Top	Bottom	Mean		Top	Bottom	Mean	
Ship	B *Centrobotrys gravida*	RP20	31.010	12X-2, 105–107	12X-4, 105–107	103.26	106.26	124.97	128.40	126.69	1.72	228.27	237.19	232.73	4.46
Ship	T *Thyrsocyrtis* (*P.*) *triacantha*		33.340	13X-5, 8–16	13X-5, 96–104	116.42	117.30	139.77	140.65	140.21	0.44	248.30	249.81	249.05	0.76
Ship	T *Lithocyclia aristotelis* gr.		33.510	13X-2, 37–44	13X-2, 88–95	112.21	112.72	135.11	135.74	135.43	0.31	239.83	241.42	240.62	0.79
Ship	T *Calocyclas hispida*		33.620	13X-2, 37–44	13X-2, 88–95	112.21	112.72	135.11	135.74	135.43	0.31	239.83	241.42	240.62	0.79
Ship	T *Cryptocarpium ornatum*		33.620	13X-1, 127–134	13X-2, 37–44	111.61	112.21	134.25	135.11	134.68	0.43	238.68	241.55	240.11	1.43
Ship	T *Lophocyrtis* (*C.*) *hadra*		33.750	13X-2, 105–107	13X-3, 0–8	112.86	113.20	135.89	136.24	136.07	0.18	240.87	242.60	241.74	0.87
Ship	T *Lychnocanoma amphitrite*		33.750	13X-2, 37–44	13X-2, 88–95	112.21	112.72	135.11	135.74	135.43	0.31	239.83	241.42	240.62	0.79
Ship	T *Lychnocanoma babylonis*		33.750	13X-2, 105–107	13X-3, 0–8	112.86	113.34	135.89	136.38	136.14	0.25	240.87	243.06	241.97	1.10
Ship	*Lithocyclia aristotelis* > *Lithocyclia angusta*		33.820	13X-2, 88–95	13X-2, 105–107	112.72	112.86	135.74	135.89	135.82	0.07	240.69	241.55	241.12	0.43
Ship	T *Dorcadospyris copelata*	RP19	33.840	12X-CC	13X-1, 127–134	107.99	111.57	130.19	134.21	132.20	2.01	233.65	242.37	238.01	4.36
Ship	B *Lithocyclia angusta*		34.130	13X-3, 0–8	13X-3, 122–129	113.34	114.07	136.38	137.14	136.76	0.38	242.06	245.03	243.55	1.49
Ship	T *Calocyclas bandyca*		34.620	13X-4, 105–107	13X-4, 120–128	115.86	116.04	139.21	139.39	139.30	0.09	247.53	247.78	247.66	0.12
Ship	T *Calocyclas turris*		34.830	13X-2, 105–107	13X-3, 0–8	112.86	113.20	135.89	136.24	136.07	0.17	240.87	242.61	241.74	0.87
Ship	T *Eusyringium fistuligerum*		34.930	13X-CC	14X-2, 95–97	119.93	122.46	143.52	146.03	144.78	1.26	251.60	254.89	253.24	1.64
Ship	T *Thyrsocyrtis* (*T.*) *bromia*		33.936	13X-4, 120–128	13X-5, 8–16	116.04	116.42	139.39	139.77	139.58	0.19	247.78	248.30	248.04	0.26
Ship	T *Thyrsocyrtis* (*P.*) *lochites*		34.125	13X-4, 120–128	13X-5, 8–16	116.04	116.42	139.39	139.77	139.58	0.19	247.78	248.30	248.04	0.26
Ship	T *Cryptocarpium azyx*		35.070	13X-4, 105–107	13X-4, 120–128	114.07	116.04	137.14	139.39	138.26	1.13	243.66	250.92	247.29	3.63
Ship	T *Thyrsocyrtis* (*P.*) *tetracantha*		35.300	13X-4, 120–128	13X-5, 8–16	116.04	116.42	139.39	139.77	139.58	0.19	247.78	248.30	248.04	0.26
Ship	B *Lophocyrtis* (*C.*) *hadra*	RP18	35.340	13X-4, 72–80	13X-4, 96–104	115.52	115.76	138.87	139.11	138.99	0.12	246.98	247.37	247.18	0.20
Ship	B *Calocyclas bandyca*		36.740	13X-CC	14X-2, 95–97	119.93	125.45	143.52	148.84	146.18	2.66	251.60	262.70	257.15	5.55
Ship	B *Lophocyrtis* (*L.*) *jacchia*	RP17	37.060	14X-2, 95–97	14X-4, 95–97	122.45	125.46	146.02	148.84	147.43	1.41	252.75	258.78	255.77	3.02
Ship	B *Cryptocarpium azyx*		37.520	14X-4, 95–97	14X-CC	125.46	129.80	148.84	153.80	151.32	2.48	255.50	263.14	259.32	3.82
Ship	T *Anthocyrtoma* spp.	RP16	37.920	14X-CC	15X-2, 96–98	129.80	132.07	153.80	158.86	156.33	2.53	259.87	266.76	263.32	3.45
Ship	B *Thyrsocyrtis* (*T.*) *bromia*		38.070	14X-CC	15X-2, 96–98	129.80	132.07	153.80	158.86	156.33	2.53	259.87	266.76	263.32	3.45
Ship	B *Thyrsocyrtis* (*P.*) *tetracantha*		38.120	14X-CC	15X-2, 96–98	129.80	132.07	153.80	158.86	156.33	2.53	259.87	266.76	263.32	3.45
Ship	T *Dorcadospyris anastasis*		38.450	14X-CC	15X-2, 96–98	129.80	132.07	153.80	158.86	156.33	2.53	259.87	266.76	263.32	3.45
Ship	B *Calocyclas turris*		38.670	14X-CC	15X-2, 96–98	129.80	132.07	153.80	158.86	156.33	2.53	259.87	266.76	263.32	3.45
Ship	B *Lithocyclia aristotelis* gr.		39.730	15X-4, 96–98	15X-CC	135.07	139.14	161.91	166.89	164.40	2.49	265.90	274.42	270.16	4.26
Ship	T *Podocyrtis mitra*		39.850	15X-CC	16X-2, 104–106	139.14	141.75	166.89	169.12	168.01	1.12	270.46	274.26	272.36	1.90
Ship	B *Dorcadospyris anastasis*		39.980	15X-CC	16X-2, 104–106	139.14	141.75	166.89	169.12	168.01	1.12	270.46	274.26	272.36	1.90
Ship	B *Podocyrtis goetheana*		40.160	16X-2, 104–106	16X-4, 104–106	141.75	144.75	169.12	172.78	170.95	1.83	272.37	277.59	274.98	2.61
Ship	T *Lophocyrtis biaurita*	RP15	40.360	16X-CC	17X-2, 105–107	149.09	151.36	177.60	181.40	179.50	1.90	283.42	298.14	290.78	1.69
Ship	*Podocyrtis mitra* > *Podocyrtis chalara*		40.700	17X-2, 105–107	17X-4, 105–107	151.36	154.36	181.40	183.80	182.60	1.20	290.28			
Ship	T *Podocyrtis trachodes*	RP14	41.230	17X-2, 105–107	17X-4, 105–107	151.36	154.36	181.40	183.80	182.60	1.20	290.28			
Ship	B *Podocyrtis chalara*		41.540	17X-4, 105–107	17X-CC	154.36	158.46	183.80	186.78	185.29	1.49				
Ship	B *Cryptocarpium ornatum*		42.100	17X-4, 105–107	17X-CC	154.36	158.46	183.80	186.78	185.29	1.49				
Ship	B *Sethochytris triconiscus*		42.400	18X-1, 95–97	17X-CC	158.46	159.36	186.78	186.26	186.52	0.26				
Ship	T *Eusyringium lagena*		42.690	18X-1, 95–97	18X-4, 95–97	159.36	163.20	186.26	190.10	188.18	1.92				
Ship	B *Theocyrtis perpumila*		42.970	18X-1, 95–97	18X-4, 95–97	159.36	163.20	186.26	190.10	188.18	1.92				
Ship	B *Podocyrtis trachodes*		43.220	18X-1, 95–97	18X-4, 95–97	159.36	163.20	186.26	190.10	188.18	1.92				
Ship	B *Zygocircus cimelium*		43.350	18X-1, 95–97	18X-4, 95–97	159.36	163.20	186.26	190.10	188.18	1.92				
Ship	*Podocyrtis sinuosa* > *Podocyrtis mitra*		43.840	18X-CC	19X-1, 104–106	163.86	169.05	190.76	194.80	192.78	2.02				
Ship	T *Podocyrtis phyxis*	RP13	44.440	19X-1, 104–106	19X-3, 104–106	169.05	172.30	194.80	198.05	196.43	1.63				
Ship	B *Podocyrtis ampla*		44.770	19X-1, 104–106	19X-3, 104–106	169.05	172.30	194.80	198.05	196.43	1.63				
Ship	*Podocyrtis phyxis* > *Podocyrtis ampla*		44.770	19X-1, 104–106	19X-3, 104–106	169.05	172.30	194.80	198.05	196.43	1.63				

* = Nigrini et al. (2006). T = top, B = bottom.

Table T35. Site U1334 radiolarian datums. (Continued on next two pages.)

Source	Event	Zone	Age* (Ma)	Hole, core, section, interval (cm) Top	Hole, core, section, interval (cm) Bottom	Depth (mbsf [m CSF-A]) Top	Depth (mbsf [m CSF-A]) Bottom	Depth (rmcd [adjusted m revised CCSF-A]) Top	Depth (rmcd [adjusted m revised CCSF-A]) Bottom	Depth (rmcd [adjusted m revised CCSF-A]) Mean	Error (±) (m)	Depth Site 1218 (corrected rmcd) Top	Depth Site 1218 (corrected rmcd) Bottom	Depth Site 1218 (corrected rmcd) Mean	Error (±) (m)
				320-	320-										
Ship	T *Diartus petterssoni*	RN7	8.629	U1334A-1H-4, 105–107	U1334A-1H-CC	5.56	8.19	5.56	8.25	6.91	1.35	23.96	31.21	27.59	3.62
Ship	*Diartus petterssoni* > *Diartus hughesi*		8.760	U1334A-1H-CC	U1334A-2H-2, 105–107	8.19	10.75	8.25	11.63	9.94	1.69	31.21	33.53	32.37	1.16
Ship	B *Spongaster berminghami*	RN6	8.760	U1334A-1H-CC	U1334A-2H-2, 105–107	8.19	10.76	8.25	11.63	9.94	1.69	31.21	33.53	32.37	1.16
Ship	B *Diartus hughesi*		8.992	U1334A-1H-CC	U1334A-2H-2, 105–107	8.19	10.76	8.25	11.63	9.94	1.69	31.21	33.53	32.37	1.16
Ship	B *Diartus petterssoni*		12.111	U1334A-2H-4, 105–107	U1334A-2H-CC	13.76	18.11	14.63	18.98	16.81	2.18	36.64	40.65	38.64	2.00
Ship	B *Lithopera neotera*	RN5	12.950	U1334A-2H-CC	U1334A-3H-2, 105–107	18.11	20.25	18.98	22.22	20.60	1.62	40.65	42.72	41.68	1.04
Ship	T *Stichocorys armata*		13.500	U1334A-3H-2, 105–107	U1334A-3H-4, 105–107	20.25	23.25	22.22	25.22	23.72	1.50	42.72	44.24	43.48	0.76
Ship	T *Acrocubus octopyle*		13.880	U1334A-3H-2, 105–107	U1334A-3H-4, 105–107	20.25	23.25	22.22	25.22	23.72	1.50	42.72	44.24	43.48	0.76
Ship	*Dorcadospyris dentata* > *Dorcadospyris alata*		14.780	U1334A-3H-4, 105–107	U1334A-3H-CC	23.25	27.65	25.22	29.62	27.42	2.20	44.24	46.63	45.43	1.20
Ship	B *Dorcadospyris alata*		15.075	U1334A-3H-CC	U1334A-4H-2, 105–107	27.65	29.76	29.62	33.37	31.49	1.88	46.63	48.68	47.66	1.02
Ship	B *Liriospyris parkerae*		15.034	U1334A-4H-2, 105–107	U1334A-4H-4, 105–107	29.76	32.76	33.37	36.24	34.81	1.44	48.68	50.92	49.80	1.12
Ship	T *Carpocanopsis cingulata*	RN4	15.129	U1334A-4H-2, 105–107	U1334A-4H-4, 105–107	29.76	32.76	33.37	36.24	34.81	1.44	48.68	50.92	49.80	1.12
Ship	T *Lychnocanoma elongata*		15.151	U1334A-4H-4, 105–107	U1334A-4H-CC	32.76	37.18	36.24	40.60	38.42	2.18	50.92	54.16	52.54	1.62
Ship	B *Lithopera renzae*		16.770	U1334A-4H-CC	U1334A-5H-2, 104–106	37.18	39.24	40.60	44.18	42.39	1.79	54.16	56.80	55.48	1.32
Ship	B *Calocycletta costata*		17.490	U1334A-5H-2, 104–106	U1334A-5H-4, 104–106	39.24	42.24	44.18	47.01	45.60	1.41	56.80	58.86	57.83	1.03
Ship	B *Dorcadospyris dentata*	RN3	17.720	U1334A-5H-2, 104–106	U1334A-5H-4, 104–106	39.24	42.24	44.18	47.01	45.60	1.41	56.80	58.86	57.83	1.03
Ship	B *Liriospyris stauropora*		17.724	U1334A-5H-4, 104–106	U1334A-5H-CC	42.24	46.78	47.01	51.45	49.23	2.22	58.86	61.81	60.33	1.48
Ship	B *Stichocorys wolffii*		18.570	U1334A-5H-4, 104–106	U1334A-5H-CC	42.24	46.78	47.01	51.45	49.23	2.22	58.86	61.81	60.33	1.48
Ship	B *Dorcadospyris forcipata*		18.610	U1334A-5H-4, 104–106	U1334A-5H-CC	42.24	46.78	47.01	51.45	49.23	2.22	58.86	61.81	60.33	1.48
Ship	T *Dorcadospyris simplex* s.s.		18.687	U1334A-5H-4, 104–106	U1334A-5H-CC	42.24	46.78	47.01	51.45	49.23	2.22	58.86	61.81	60.33	1.48
Ship	T *Dorcadospyris praeforcipata*		19.770	U1334A-6H-4, 104–106	U1334A-6H-CC	51.74	56.20	58.67	63.16	60.92	2.25	67.19	70.04	68.61	1.42
Ship	B *Dorcadospyris simplex*	RN2	20.340	U1334A-7H-2, 105–107	U1334A-7H-4, 105–107	58.25	61.25	65.81	68.67	67.24	1.43	71.59	73.48	72.53	0.95
Ship	B *Stichocorys delmontensis*		20.680	U1334A-7H-2, 105–107	U1334A-7H-4, 105–107	58.25	61.25	65.81	68.67	67.24	1.43	71.59	73.48	72.53	0.95
Ship	T *Lophocyrtis* (C.) *pegetrum*		20.890	U1334A-7H-4, 105–107	U1334A-7H-CC	61.25	65.66	68.67	73.08	70.88	2.21	73.48	76.00	74.74	1.26
Ship	B *Calocycletta* (C.) *virginis*		21.390	U1334A-7H-CC	U1334A-8H-2, 105–107	65.66	67.76	73.08	76.82	74.95	1.87	76.00	79.03	77.51	1.52
Ship	B *Lophocyrtis* (C.) *leptetrum*		21.420	U1334A-7H-CC	U1334A-8H-2, 105–107	65.66	67.76	73.08	76.82	74.95	1.87	76.00	79.03	77.51	1.52
Ship	T *Theocyrtis annosa*		21.380	U1334A-8H-4, 105–107	U1334A-8H-CC	70.75	75.06	79.81	84.12	81.97	2.16	81.44	83.32	82.38	0.94
Ship	T *Eucyrtidium mitodes*		21.950	U1334A-9H-2, 105–107	U1334A-9H-4, 105–107	77.25	80.25	88.47	91.47	89.97	1.50	85.94	87.73	86.84	0.89
Ship	B *Calocycletta* (C.) *serrata*	RN1	22.040	U1334A-9H-2, 105–107	U1334A-9H-4, 105–107	77.25	80.25	88.47	91.47	89.97	1.50	85.94	87.73	86.84	0.89
Ship	B *Cyrtocapsella cornuta*		22.260	U1334A-10H-2, 105–107	U1334A-10H-4, 105–107	86.75	89.75	98.13	101.06	99.60	1.47	92.36	94.14	93.25	0.89
Ship	B *Cyrtocapsella tetrapera*		22.350	U1334A-10H-2, 105–107	U1334A-10H-4, 105–107	86.75	89.75	98.13	101.06	99.60	1.47	92.36	94.14	93.25	0.89
Ship	T *Artophormis gracilis*		22.620	U1334A-10H-2, 105–107	U1334A-10H-4, 105–107	86.75	89.75	98.13	101.06	99.60	1.47	92.36	94.14	93.25	0.89
Ship	B *Didymocyrtis bassanii*		22.930	U1334A-10H-2, 105–107	U1334A-10H-4, 105–107	86.75	89.75	98.13	101.06	99.60	1.47	92.36	94.14	93.25	0.89
Ship	B *Eucyrtidium diaphanes*		22.950	U1334A-10H-4, 105–107	U1334A-10H-CC	89.75	93.95	101.06	105.26	103.16	2.10	94.14	97.17	95.65	1.52
Ship	T *Dorcadospyris cyclacantha*		22.980	U1334A-10H-CC	U1334A-11H-2, 105–107	93.95	96.25	105.26	109.14	107.20	1.94	97.17	99.98	98.57	1.40
Ship	T *Dorcadospyris riedeli* (upper)	RP22	23.010	U1334A-10H-CC	U1334A-11H-2, 105–107	93.95	96.25	105.26	109.14	107.20	1.94	97.17	99.98	98.57	1.40
Ship	T *Dorcadospyris papilio*		23.310	U1334A-10H-CC	U1334A-11H-2, 105–107	93.95	96.25	105.26	109.14	107.20	1.94	97.17	99.98	98.57	1.40
Ship	B *Dorcadospyris cyclacantha*		23.290	U1334A-11H-2, 105–107	U1334A-11H-4, 105–107	96.25	99.25	109.14	112.17	110.66	1.52	99.98	102.12	101.05	1.07
Ship	T *Liriospyris longicornuta*		24.120	U1334A-11H-4, 105–107	U1334A-11H-CC	99.25	103.75	112.17	116.51	114.34	2.17	102.12	105.19	103.66	1.54
Ship	T *Acrocubus octopylus* (lower)		24.380	U1334A-13H-2, 105–107	U1334A-13H-4, 105–107	114.25	117.25	129.74	132.82	131.28	1.54	114.86	117.38	116.12	1.26
Ship	T *Lychnocanoma apodora*		24.500	U1334A-13H-2, 105–107	U1334A-13H-4, 105–107	114.25	117.25	129.74	132.82	131.28	1.54	114.86	117.38	116.12	1.26
Ship	B *Lychnocanoma elongata*		25.050	U1334A-13H-4, 105–107	U1334A-13H-CC	117.25	122.55	132.82	137.99	135.41	2.59	117.38	121.83	119.61	2.23
Ship	B *Dorcadospyris praeforcipata*		25.270	U1334A-13H-CC	U1334A-14H-2, 105–107	122.55	124.75	137.99	142.01	140.00	2.01	121.83	124.88	123.36	1.52
Ship	B *Didymocyrtis tubaria* (lower)		25.270	U1334A-13H-CC	U1334A-14H-2, 105–107	122.55	124.75	137.99	142.01	140.00	2.01	121.83	124.88	123.36	1.52
Ship	B *Dorcadospyris scambos*	RP21	25.330	U1334C-13H-CC	U1334A-14H-CC	123.72	131.96	148.69	150.23	149.46	0.77	130.30	131.34	130.82	0.52
Ship	B *Calocycletta* (C.) *robusta*		25.270	U1334A-14H-4, 105–107	U1334A-14H-CC	127.75	131.96	145.67	150.23	147.95	2.28	128.54	131.34	129.94	1.40
Ship	B *Liriospyris longicornuta*		25.290	U1334A-14H-4, 105–107	U1334A-14H-CC	127.25	131.96	145.67	150.23	147.95	2.28	128.54	131.34	129.94	1.40
Ship	B *Lychnocanoma apodora*		25.550	U1334A-15H-4, 105–107	U1334A-15H-CC	137.25	141.20	156.24	160.31	158.28	2.04	135.00	138.67	136.84	1.83

Table T35 (continued). (Continued on next page.)

Source	Event	Zone	Age* (Ma)	Hole, core, section, interval (cm)		Depth (mbsf [m CSF-A])		Depth (rmcd [adjusted m revised CCSF-A])			Error (±) (m)	Depth Site 1218 (corrected rmcd)			Error (±) (m)
				Top	Bottom	Top	Bottom	Top	Bottom	Mean		Top	Bottom	Mean	
Ship	T *Dorcadospyris circulus* (continuous)	RP21	26.170	U1334A-16H-2, 104–106	U1334A-16H-4, 104–106	143.74	146.74	164.41	167.38	165.90	1.49	141.71	144.06	142.88	1.18
Ship	T *Dorcadospyris riedeli* (upper)		26.200	U1334A-16H-2, 104–106	U1334A-16H-4, 104–106	143.74	146.74	164.41	167.38	165.90	1.49	141.71	144.06	142.88	1.18
Ship	B *Eucyrtidium plesiodiaphanes*		26.400	U1334A-16H-2, 104–106	U1334A-16H-4, 104–106	143.74	146.74	164.41	167.38	165.90	1.49	141.71	144.06	142.88	1.18
Ship	T *Lithocyclia angusta* (continuous)		27.680	U1334A-17H-CC	U1334A-18H-2, 105–107	158.97	162.70	181.52	186.77	184.15	2.63	154.81	158.90	156.86	2.04
Ship	B *Dorcadospyris ateuchus*		29.503	U1334B-20H-CC	U1334C-20H-CC	191.55	189.97	221.91	223.30	222.61	0.69	185.63	186.40	186.02	0.39
Ship	B *Theocyrtis annosa*		28.330	U1334A-20H-CC	U1334A-21H-2, 105–107	188.63	191.25	229.09	232.41	230.75	1.66	189.61	191.68	190.65	1.04
Ship	*Tristylospyris triceros* > *Dorcadospyris ateuchus*		28.600	U1334A-20H-CC	U1334A-21H-2, 105–107	188.63	191.25	229.09	232.41	230.75	1.66	189.61	191.68	190.65	1.04
Ship	B *Eucyrtidium mitodes*		29.410	U1334A-21H-4, 105–107	U1334A-21H-CC	194.25	198.48	235.41	239.72	237.57	2.16	193.64	196.30	194.97	1.33
Ship	B *Dorcadospyris circulus*		29.960	U1334A-21H-4, 105–107	U1334A-21H-CC	194.25	198.48	235.41	239.72	237.57	2.16	193.64	196.30	194.97	1.33
Revised	T *Dorcadospyris spinosa*		30.535	U1334A-22H-3, 80–81	U1334A-22H-3, 110–111	202.01	202.31	244.47	244.77	244.62	0.15	199.19	199.38	199.29	0.10
Revised	T *Lithocyclia crux*		30.130	U1334A-22H-3, 110–111	U1334B-22H-CC	202.31	211.10	244.77	245.01	244.89	0.12	199.38	199.54	199.46	0.08
Ship	T *Lophocyrtis* (*C.*) *milowi*		29.534	U1334C-19H-CC	U1334A-20H-CC	180.68	188.63	213.20	229.09	221.15	7.95	178.45	189.61	184.03	5.58
Revised	T *Theocyrtis tuberosa*		30.130	U1334A-22H-5, 140–141	U1334A-22H-6, 20–21	205.61	205.91	248.56	248.87	248.72	0.15	201.81	202.00	201.90	0.10
Revised	T *Dorcadospyris quadripes*		30.535	U1334B-23X-5, 90–91	U1334A-23X-1, 100–101	217.61	207.91	252.52	252.65	252.59	0.07	204.31	204.40	204.35	0.05
Revised	B *Eucyrtidium plesiodiaphanes*		30.370	U1334A-23X-4, 70–71	U1334A-23X-4, 100–101	212.41	212.71	257.13	257.43	257.28	0.15	207.49	207.71	207.60	0.11
Ship	T *Lophocyrtis* (*S.*) *oberhaensliae*		30.740	U1334A-23H-CC	U1334A-24H-2, 105–107	216.17	217.05	260.39	264.73	262.56	2.17	210.27	213.34	211.80	1.53
Revised	B *Dorcadospyris spinosa*		30.840	U1334C-25X-2, 130–131	U1334C-25X-3, 10–11	226.41	226.71	272.74	273.04	272.89	0.15	220.76	221.04	220.90	0.14
Revised	T *Dorcadospyris pseudopapilio*		30.840	U1334C-25X-2, 130–131	U1334C-25X-3, 10–11	226.41	226.71	272.74	273.04	272.89	0.15	220.76	221.04	220.90	0.14
Revised	T *Centrobotrys gravida*		30.890	U1334C-25X-5, 100–101	U1334C-25X-5, 130–131	230.61	230.91	277.00	277.31	277.16	0.15	224.33	224.59	224.46	0.13
Revised	B *Centrobotrys petrushevskayae*		30.909	U1334A-25X-5, 10–11	U1334A-25X-5, 40–41	230.21	230.51	279.64	279.94	279.79	0.15	226.48	226.69	226.59	0.10
Revised	T *Theocyrtis careotuberosa*	RP20	30.968	U1334A-25X-6, 10–11	U1334A-25X-6, 70–71	231.71	232.31	281.14	281.74	281.44	0.30	227.56	228.00	227.78	0.22
Revised	B *Dorcadospyris quadripes*		30.954	U1334A-25X-7, 35–36	U1334A-25X-CC	233.46	233.79	282.53	282.72	282.62	0.10	228.57	228.72	228.65	0.07
Revised	B *Centrobotrys gravida*		31.010	U1334A-26X-4, 50–51	U1334A-26X-4, 80–81	238.61	238.91	288.25	288.55	288.40	0.15	232.55	232.75	232.65	0.10
Revised	B *Lithocyclia crux*		31.000	U1334A-26X-4, 140–141	U1334A-26X-5, 20–21	239.51	239.81	289.15	289.45	289.30	0.15	233.17	233.38	233.27	0.10
Revised	B *Dorcadospyris pseudopapilio*		31.000	U1334A-26X-4, 140–141	U1334A-26X-5, 20–21	239.51	239.81	289.15	289.45	289.30	0.15	233.17	233.38	233.27	0.10
Revised	T *Artophormis barbadensis*		33.974	U1334B-26X-4, 40–41	U1334B-26X-4, 70–71	243.11	243.41	295.43	295.73	295.58	0.15	238.52	238.82	238.67	0.15
Revised	T *Artophormis dominasinensis*			U1334B-26X-4, 40–41	U1334B-26X-4, 70–71	243.11	243.41	295.43	295.73	295.58	0.15	238.52	238.82	238.67	0.15
Revised	B *Lophocyrtis* (*S.*) *oberhaensliae*		33.510	U1334B-26X-4, 70–71	U1334B-26X-4, 100–101	243.41	243.71	295.73	296.03	295.88	0.15	238.82	239.13	238.97	0.15
Revised	T *Cryptocarpium ornatum*		33.620	U1334B-26X-5, 10–11	U1334B-26X-5, 40–41	244.31	244.61	296.63	296.93	296.78	0.15	239.60	239.79	239.70	0.10
Revised	B *Theocyrtis tuberosa*		31.000	U1334B-26X-5, 70–71	U1334B-26X-5, 100–101	244.91	245.21	297.23	297.52	297.38	0.15	239.99	240.18	240.09	0.10
Revised	T *Lychnocanoma amphitrite*		33.750	U1334B-26X-5, 130–131	U1334C-28X-1, 40–41	245.51	249.21	297.92	298.23	298.08	0.15	240.42	240.61	240.52	0.09
Revised	T *Dictyoprora mongolfieri*		33.180	U1334B-26X-5, 130–131	U1334C-28X-1, 40–41	245.51	249.21	297.92	298.23	298.08	0.15	240.42	240.61	240.52	0.09
Revised	T *Lophocyrtis* (*L.*) *jacchia*		33.693	U1334B-26X-5, 130–131	U1334C-28X-1, 40–41	245.51	249.21	297.92	298.23	298.08	0.15	240.42	240.61	240.52	0.09
Revised	T *Lithocyclia aristotelis* gr.		33.510	U1334C-28X-1, 40–41	U1334B-26X-6, 40–41	249.21	246.11	298.23	298.58	298.40	0.17	240.61	240.81	240.71	0.10
Revised	T *Lychnocanoma babylonis*		33.750	U1334C-28X-1, 40–41	U1334B-26X-6, 40–41	249.21	246.11	298.23	298.58	298.40	0.17	240.61	240.81	240.71	0.10
Revised	*Lithocyclia aristotelis* gr. > *Lithocyclia angusta*		33.820	U1334C-28X-1, 40–41	U1334B-26X-6, 40–41	249.21	246.11	298.23	298.58	298.40	0.17	240.61	240.81	240.71	0.10
Revised	T *Dictyoprora armadillo*		33.693	U1334C-28X-1, 40–41	U1334B-26X-6, 40–41	249.21	246.11	298.23	298.58	298.40	0.17	240.61	240.81	240.71	0.10
Revised	T *Zealithapium mitra*		33.974	U1334C-28X-1, 40–41	U1334B-26X-6, 40–41	249.21	246.11	298.23	298.58	298.40	0.17	240.61	240.81	240.71	0.10
Revised	B *Lophocyrtis* (*C.*) *milowi*		34.125	U1334C-28X-1, 40–41	U1334B-26X-6, 40–41	249.21	246.11	298.23	298.58	298.40	0.17	240.61	240.81	240.71	0.10
Revised	T *Dorcadospyris copelata*		33.840	U1334C-28X-1, 70–71	U1334B-26X-6, 70–71	249.51	246.41	298.65	298.88	298.77	0.11	240.86	241.02	240.94	0.08
Revised	T *Calocycletta* (*C.*) *anekathen*		33.753	U1334C-28X-1, 70–71	U1334B-26X-6, 70–71	249.51	246.41	298.65	298.88	298.77	0.11	240.86	241.02	240.94	0.08
Revised	T *Lophocyrtis* (*C.*) *hadra*	RP19	33.750	U1334C-28X-1, 100–101	U1334C-28X-1, 130–131	249.81	250.11	299.00	299.34	299.17	0.17	241.11	241.35	241.23	0.12
Revised	B *Lithocyclia angusta*		34.130	U1334B-26X-7, 10–11	U1334B-26X-7, 35–36	247.31	247.56	299.85	300.09	299.97	0.12	241.83	242.07	241.95	0.12
Revised	B *Pteropilium* sp. aff. *Pterocanium contiguum*		34.251	U1334B-26X-7, 10–11	U1334B-26X-7, 35–36	247.31	247.56	299.85	300.09	299.97	0.12	241.83	242.07	241.95	0.12
Revised	T *Dorcadospyris ombros* (upper)		34.298	U1334B-26H-CC	U1334B-27X-1, 10–11	247.87	246.24	300.40	302.16	301.28	0.88	242.39	243.98	243.19	0.80
Revised	T *Thyrsocyrtis* (*P.*) *lochites* (continuous)		34.125	U1334A-27X-CC	U1334B-27X-2, 40–41	250.74	248.71	301.84	302.84	302.34	0.50	243.72	244.66	244.19	0.47

Table T35 (continued).

Source	Event	Zone	Age* (Ma)	Hole, core, section, interval (cm)		Depth (mbsf [m CSF-A])		Depth (rmcd [adjusted m revised CCSF-A])			Error (±) (m)	Depth Site 1218 (corrected rmcd)			Error (±) (m)
				Top	Bottom	Top	Bottom	Top	Bottom	Mean		Top	Bottom	Mean	
Revised	T *Cryptocarpium azyx*		35.070	U1334B-27X-3, 10–11	U1334B-27X-3, 70–71	250.91	251.51	305.64	305.64	305.64	0.00	246.49	246.49	246.49	0.00
Revised	T *Calocyclas turris*		34.830	U1334B-27X-3, 130–131	U1334B-27X-4, 40–41	252.11	252.71	306.81	306.81	306.81	0.00	247.23	247.23	247.23	0.00
Revised	B *Lophocyrtis* (*C.*) *hadra*	RP19	35.340	U1334B-27X-4, 70–71	U1334B-27X-4, 100–101	253.01	253.31	307.38	307.38	307.38	0.00	247.61	247.61	247.61	0.00
Revised	T *Thyrsocyrtis* (*T.*) *bromia* (continuous)		33.936	U1334B-27X-4, 100–101	U1334B-27X-4, 130–131	253.31	253.61	307.68	307.68	307.68	0.00	247.80	247.80	247.80	0.00
Revised	T *Thyrsocyrtis* (*P.*) *tetracantha* (continuous)		35.300	U1334B-27X-4, 100–101	U1334B-27X-4, 130–131	253.31	253.61	307.68	307.68	307.68	0.00	247.80	247.80	247.80	0.00
Revised	T *Calocyclas bandyca*		34.620	U1334B-27X-4, 100–101	U1334B-27X-4, 130–131	253.31	253.61	307.68	307.68	307.68	0.00	247.80	247.80	247.80	0.00
Revised	T *Thyrsocyrtis* (*P.*) *krooni*		35.440	U1334B-27X-5, 100–101	U1334B-27X-5, 130–131	254.81	255.11	309.18	309.18	309.18	0.00	248.70	248.70	248.70	0.00
Revised	T *Thyrsocyrtis* (*T.*) *rhizodon*		35.402	U1334B-27X-6, 10–11	U1334B-27X-6, 40–41	255.41	255.71	309.78	309.78	309.78	0.00	249.03	249.03	249.03	0.00
Revised	T *Calocyclas hispida*		33.620	U1334A-28X-5, 10–11	U1334A-28X-5, 40–41	258.71	258.91	312.01	312.21	312.11	0.10	250.26	250.37	250.31	0.06
Revised	T *Thyrsocyrtis* (*P.*) *triacantha* (continuous)	RP18	33.340	U1334A-28X-5, 10–11	U1334A-28X-5, 40–41	258.71	258.91	312.01	312.21	312.11	0.10	250.26	250.37	250.31	0.06
Revised	T *Lithocyclia ocellus* gr.		33.373	U1334A-28X-5, 73–74	U1334A-28X-5, 105–107	259.54	259.85	312.84	313.15	312.99	0.16	250.72	250.89	250.80	0.09
Revised	T *Thyrsocyrtis* (*P.*) *orthotenes*		36.893	U1334A-28X-6, 10–11	U1334A-28X-6, 40–41	260.40	260.71	313.70	314.01	313.85	0.15	251.30	251.38	251.34	0.04
Revised	B *Artophormis gracilis*		36.138	U1334A-28X-6, 40–41	U1334A-28X-7, 40–41	260.71	262.21	314.01	315.47	314.74	0.73	251.38	251.75	251.56	0.18
Revised	B *Lychnocanoma amphitrite*		36.490	U1334A-29X-3, 30–31	U1334A-29X-3, 60–61	264.22	264.52	318.43	318.69	318.56	0.13	252.87	253.00	252.94	0.06
Revised	T *Theocyrtis perpumila*		36.716	U1334A-29X-3, 60–61	U1334A-29X-3, 90–91	264.52	264.82	318.69	318.95	318.82	0.13	253.00	253.13	253.07	0.06
Revised	B *Calocyclas bandyca*		36.740	U1334A-29X-4, 120–121	U1334A-29X-4, 149–150	266.62	266.91	320.70	320.95	320.82	0.12	254.38	254.52	254.45	0.07
Revised	B *Calocycletta* (*C.*) *anekathen*		36.413	U1334A-29X-5, 30–31	U1334A-29X-5, 60–61	267.22	267.52	321.24	321.55	321.39	0.16	254.68	255.02	254.85	0.17
Revised	B *Lophocyrtis* (*L.*) *jacchia*		37.065	U1334B-28H-CC	U1334A-29X-5, 145–146	267.29	268.37	322.21	322.40	322.30	0.09	255.54	255.67	255.60	0.06
Ship	B *Calocyclas turris*	RP17	38.667	U1334A-29X-CC	U1334C-29H-CC	272.00	268.26	326.42	326.54	326.48	0.06	257.81	257.87	257.84	0.03
Ship	B *Thyrsocyrtis* (*P.*) *lochites*		37.519	U1334C-29H-CC	U1334A-30X-2, 120–122	268.26	274.80	326.54	330.01	328.27	1.73	257.87	259.43	258.65	0.78
Ship	B *Thyrsocyrtis* (*P.*) *tetracantha*		38.118	U1334C-29H-CC	U1334A-30X-2, 120–122	268.26	274.80	326.54	330.01	328.27	1.73	257.87	259.43	258.65	0.78

* = Nigrini et al. (2006). T = top, B = bottom.

Table T36. Site 1218 radiolarian datums. (Continued on next three pages.)

Source	Event	Zone	Age* (Ma)	Hole, core, section, interval (cm) Top	Hole, core, section, interval (cm) Bottom	Depth from Pälike et al. (2005) (rmcd) Top	Depth from Pälike et al. (2005) (rmcd) Bottom	Depth from Pälike et al. (2005) (rmcd) Mean	Depth adjusted (corrected rmcd) Top	Depth adjusted (corrected rmcd) Bottom	Depth adjusted (corrected rmcd) Mean	Error (±) (m)
				199-	199-							
Nigrini et al., 2006	T *Dorcadospyris praeforcipata*		20.070	1218A-7H-4, 46–48	1218A-7H-5, 40–42	68.97	70.32	69.65	68.97	70.32	69.65	0.67
Nigrini et al., 2006	B *Didymocyrtis violina*		20.070	1218A-7H-4, 46–48	1218A-7H-5, 40–42	68.97	70.32	69.65	68.97	70.32	69.65	0.67
Nigrini et al., 2006	B *Didymocyrtis tubaria* (upper)		20.070	1218A-7H-4, 46–48	1218A-7H-5, 40–42	68.97	70.32	69.65	68.97	70.32	69.65	0.67
Nigrini et al., 2006	B *Dorcadospyris simplex*	RN2	20.565	1218A-7H-6, 46–48	1218A-7H-7, 46–48	71.65	73.37	72.51	71.65	73.37	72.51	0.86
Nigrini et al., 2006	T *Calocycletta* (C.) *serrata*		20.565	1218A-7H-6, 46–48	1218A-7H-7, 46–48	71.65	73.37	72.51	71.65	73.37	72.51	0.86
Nigrini et al., 2006	B *Stichocorys delmontensis*		21.175	1218A-8H-3, 46–48	1218A-8H-4, 45–47	76.64	78.15	77.40	76.64	78.15	77.40	0.76
Nigrini et al., 2006	T *Lophocyrtis* (C.) *pegetrum*		21.175	1218A-8H-3, 46–48	1218A-8H-4, 45–47	76.64	78.15	77.40	76.64	78.15	77.40	0.76
Nigrini et al., 2006	B *Carpocanopsis bramlettei*		21.550	1218A-8H-6, 46–48	1218A-8H-8-CC	81.21	82.19	81.70	81.21	82.19	81.70	0.49
Nigrini et al., 2006	T *Theocyrtis annosa*		21.590	1218A-8H-CC	1218B-9H-3, 45–47	82.19	82.19	82.19	82.19	82.19	82.19	0.00
Nigrini et al., 2006	B *Calocycletta* (C.) *virginis*		21.660	1218B-9H-3, 45–47	1218B-9H-4, 45–47	82.19	83.69	82.94	82.19	83.69	82.94	0.75
Nigrini et al., 2006	B *Lophocyrtis* (C.) *leptetrum*		21.660	1218B-9H-3, 45–47	1218B-9H-4, 45–47	82.19	83.69	82.94	82.19	83.69	82.94	0.75
Nigrini et al., 2006	T *Didymocyrtis tubaria* (lower)	RN1	21.850	1218B-9H-5, 45–47	1218A-9H-1, 71–72	84.19	85.67	84.93	84.19	85.67	84.93	0.74
Nigrini et al., 2006	T *Eucyrtidium mitodes*		22.235	1218A-9H-2, 71–72	1218A-9H-4, 74–75	87.07	90.20	88.64	87.07	90.20	88.64	1.57
Nigrini et al., 2006	B *Calocycletta* (C.) *serrata*		22.235	1218A-9H-2, 71–72	1218A-9H-4, 74–75	87.07	90.20	88.64	87.07	90.20	88.64	1.57
Nigrini et al., 2006	B *Cyrtocapsella cornuta*		22.585	1218A-9H-5, 74–75	1218B-10H-2, 70–72	91.70	92.90	92.30	91.70	92.90	92.30	0.60
Nigrini et al., 2006	B *Cyrtocapsella tetrapera*		22.585	1218A-9H-5, 74–75	1218B-10H-2, 70–72	91.70	92.90	92.30	91.70	92.90	92.30	0.60
Nigrini et al., 2006	T *Artophormis gracilis*		22.725	1218A-9H-6, 83–85	1218B-10H-3, 46–48	93.29	94.16	93.73	93.29	94.16	93.73	0.43
Nigrini et al., 2006	B *Eucyrtidium diaphanes*		23.105	1218B-10H-5, 46–48	1218A-10H-1, 74–75	97.16	97.23	97.20	97.16	97.23	97.20	0.04
Nigrini et al., 2006	B *Didymocyrtis bassanii*		22.910	1218A-9H-CC	1218B-10H-4, 46–48	95.04	95.66	95.35	95.04	95.66	95.35	0.31
Nigrini et al., 2006	T *Dorcadospyris cyclacantha*		23.105	1218B-10H-5, 46–48	1218A-10H-1, 74–75	97.16	97.23	97.20	97.16	97.23	97.20	0.04
Nigrini et al., 2006	T *Dorcadospyris riedeli* (upper)		23.165	1218A-10H-1, 74–75	1218B-10H-6, 74–75	97.23	104.34	100.79	97.23	104.34	100.79	3.56
Nigrini et al., 2006	B *Dorcadospyris cyclacantha*	RP22	23.385	1218B-10H-7, 46–48	1218A-10H-4, 74–75	100.11	101.34	100.73	100.11	101.34	100.73	0.62
Nigrini et al., 2006	T *Dorcadospyris circulus* (max)		23.575	1218A-10H-4, 74–76	1218A-10H-6, 74–75	101.34	104.34	102.84	101.34	104.34	102.84	1.50
Nigrini et al., 2006	T *Dorcadospyris papilio*		23.760	1218A-10H-6, 74–75	1218A-10H-CC	104.34	105.49	104.92	104.34	105.49	104.92	0.57
Nigrini et al., 2006	T *Liriospyris longicornuta*		23.760	1218A-10H-6, 74–75	1218A-10H-CC	104.34	105.49	104.92	104.34	105.49	104.92	0.57
Nigrini et al., 2006	B *Carpocanopsis cingulata*		24.435	1218A-11H-3, 44–46	1218A-11H-4, 44–46	110.46	112.04	111.25	110.46	112.04	111.25	0.79
Nigrini et al., 2006	T *Acrocubus octopylus* (lower)		24.675	1218A-11H-5, 45–47	1218A-11H-6, 45–47	113.55	115.05	114.30	113.55	115.05	114.30	0.75
Nigrini et al., 2006	T *Lychnocanoma apodora*		24.800	1218A-11H-6, 45–47	1218A-11H-7, 45–47	115.05	116.55	115.80	115.05	116.55	115.80	0.75
Nigrini et al., 2006	B *Lychnocanoma elongata*		25.165	1218A-12H-2, 45–47	1218A-12H-3, 45–47	119.62	121.12	120.37	119.62	121.12	120.37	0.75
Nigrini et al., 2006	B *Acrocubus octopylus* (lower)		25.270	1218A-12H-3, 45–47	1218A-12H-4, 45–47	121.12	122.62	121.87	121.12	122.62	121.87	0.75
Nigrini et al., 2006	B *Didymocyrtis tubaria* (lower)		25.505	1218A-12H-5, 45–47	1218A-12H-6, 45–47	124.12	125.75	124.94	124.12	125.75	124.94	0.81
Nigrini et al., 2006	B *Calocycletta* (C.) *robusta*		25.505	1218A-12H-5, 45–47	1218A-12H-6, 45–47	124.12	125.75	124.94	124.12	125.75	124.94	0.81
Nigrini et al., 2006	B *Dorcadospyris praeforcipata*		25.505	1218A-12H-5, 45–47	1218A-12H-6, 45–47	124.12	125.75	124.94	124.12	125.75	124.94	0.81
Nigrini et al., 2006	B *Liriospyris longicornuta*		25.795	1218A-13H-1, 45–47	1218A-13H-2, 45–47	128.40	129.40	128.90	128.40	129.40	128.90	0.50
Nigrini et al., 2006	B *Dorcadospyris scambos*		26.010	1218A-13H-3, 45–47	1218A-13H-4, 45–47	130.69	132.56	131.63	130.69	132.56	131.63	0.94
Nigrini et al., 2006	T *Theocorys puriri*		26.125	1218A-13H-4, 45–47	1218A-13H-5, 45–47	132.56	134.06	133.31	132.56	134.06	133.31	0.75
Nigrini et al., 2006	B *Acrobotrys disolenia*		26.125	1218A-13H-4, 45–47	1218A-13H-5, 45–47	132.56	134.06	133.31	132.56	134.06	133.31	0.75
Nigrini et al., 2006	B *Dorcadospyris papilio*	RP21	26.125	1218A-13H-4, 45–47	1218A-13H-5, 45–47	132.56	134.06	133.31	132.56	134.06	133.31	0.75
Nigrini et al., 2006	B *Lychnocanoma apodora*		26.125	1218A-13H-4, 45–47	1218A-13H-5, 45–47	132.56	134.06	133.31	132.56	134.06	133.31	0.75
Nigrini et al., 2006	T *Dorcadospyris circulus* (continuous)		26.385	1218A-13H-7, 38–40	1218A-13H-CC	136.89	137.57	137.23	136.89	137.57	137.23	0.34
Nigrini et al., 2006	B *Dorcadospyris riedeli* (upper)		26.505	1218A-14H-1, 45–47	1218A-14H-2, 45–47	138.18	139.57	138.88	138.18	139.57	138.88	0.69
Nigrini et al., 2006	T *Eucyrtidium plesiodiaphanes*		27.355	1218A-15H-2, 45–47	1218A-15H-3, 45–47	149.87	151.37	150.62	149.87	151.37	150.62	0.75
Nigrini et al., 2006	T *Lithocyclia angusta* (continuous)		28.015	1218A-16H-1, 45–47	1218A-16H-2, 45–47	159.21	160.76	159.99	159.21	160.76	159.99	0.77
Nigrini et al., 2006	T *Theocyrtis setanios*		28.810	1218A-17H-3, 45–47	1218A-17H-4, 45–47	171.49	172.75	172.12	171.49	172.75	172.12	0.63
Nigrini et al., 2006	T *Theocyrtis perysinos*		29.075	1218A-17H-6, 45–47	1218A-17H-7, 45–47	175.51	177.01	176.26	175.51	177.01	176.26	0.75
Nigrini et al., 2006	T *Tristylospyris triceros*		29.075	1218A-17H-6, 45–47	1218A-17H-7, 45–47	175.51	177.01	176.26	175.51	177.01	176.26	0.75
Nigrini et al., 2006	B *Theocyrtis annosa*		29.130	1218A-17H-7, 45–47	1218A-17H-CC	177.01	177.55	177.28	177.01	177.55	177.28	0.27
Nigrini et al., 2006	*Tristylospyris triceros* > *Dorcadospyris ateuchus*		29.310	1218A-18H-1, 46–48	1218A-18H-2, 46–48	180.52	182.27	181.40	180.52	182.27	181.40	0.88

Table T36 (continued). (Continued on next page.)

Source	Event	Zone	Age* (Ma)	Hole, core, section, interval (cm)		Depth from Pälike et al. (2005) (rmcd)			Depth adjusted (corrected rmcd)			Error (±) (m)
				Top	Bottom	Top	Bottom	Mean	Top	Bottom	Mean	
Nigrini et al., 2006	B *Eucyrtidium mitodes*		29.515	1218A-18H-3, 46–48	1218A-18H-4, 46–48	184.22	185.72	184.97	184.22	185.72	184.97	0.75
Nigrini et al., 2006	B *Theocyrtis perysinos*		29.735	1218A-18H-5, 46–48	1218A-18H-6, 46–48	187.14	188.58	187.86	187.14	188.58	187.86	0.72
Nigrini et al., 2006	B *Dorcadospyris ateuchus*		30.175	1218A-19H-3, 46–48	1218A-19H-4, 46–48	193.54	195.04	194.29	193.54	195.04	194.29	0.75
Nigrini et al., 2006	B *Theocyrtis setanios*		29.830	1218A-18H-6, 46–48	1218A-18H-CC	188.58	190.22	189.40	188.58	190.22	189.40	0.82
Nigrini et al., 2006	T *Lophocyrtis* (*C.*) *milowi*		30.280	1218A-19H-4, 46–48	1218A-19H-5, 46–48	195.04	196.54	195.79	195.04	196.54	195.79	0.75
Nigrini et al., 2006	B *Didymocyrtis prismatica*		30.510	1218A-19H-6, 46–48	1218A-19H-7, 46–48	198.04	199.11	198.58	198.04	199.11	198.58	0.54
Nigrini et al., 2006	B *Dorcadospyris circulus*		30.710	1218A-19H-CC	1218A-20H-1, 38–40	199.72	201.86	200.79	199.72	201.86	200.79	1.07
Nigrini et al., 2006	T *Lophocyrtis* (*S.*) *oberhaensliae*		30.885	1218A-20H-1, 38–40	1218A-20H-2, 45–47	201.86	203.43	202.65	201.86	203.43	202.65	0.78
Revised	T *Theocyrtis tuberosa*		30.710	1218B-20X-4, 98–99	1218B-20X-4, 123–124	201.28	201.74	201.51	201.28	201.74	201.51	0.23
Revised	T *Lithocyclia crux*		30.710	1218B-20X-3, 49–50	1218B-20X-3, 98–99	199.30	199.78	199.54	199.30	199.78	199.54	0.24
Revised	T *Dorcadospyris spinosa*		31.015	1218A-20H-1, 38–40	1218B-20X-5, 48–49	201.86	202.28	202.07	201.86	202.28	202.07	0.21
Revised	T *Dorcadospyris quadripes*		31.015	1218A-20H-2, 45–47	1218A-20H-6, 50–51	203.43	203.80	203.62	203.43	204.93	204.18	0.75
Revised	B *Eucyrtidium plesiodiaphanes*		31.125	1218A-20H-3, 100–101	1218A-20H-3, 144–145	205.48	205.93	205.71	205.48	205.93	205.71	0.23
Nigrini et al., 2006	B *Lophocyrtis* (*C.*) *pegetrum*		31.340	1218A-20H-5, 45–47	1218B-21X-2, 45–47	207.93	209.27	208.60	207.93	209.09	208.51	0.58
Nigrini et al., 2006	B *Spirocyrtis subtilis*		31.340	1218A-20H-5, 45–47	1218B-21X-2, 45–47	207.93	209.27	208.60	207.93	209.09	208.51	0.58
Revised	T *Dorcadospyris pseudopapilo*	RP20	32.165	1218C-15X-6, 49–50	1218C-15X-6, 141–142	222.02	223.02	222.52	220.86	221.72	221.29	0.43
Revised	B *Dorcadospyris spinosa*		32.165	1218A-22X-2, 45–47	1218C-15X-6, 49–50	220.15	220.02	220.09	220.78	221.72	221.25	0.47
Revised	T *Centrobotrys gravida*		32.405	1218B-22X-4, 143–144	1218A-22X-5, 49–50	223.36	223.92	223.64	223.99	224.55	224.27	0.28
Revised	B *Centrobotrys petrushevskayae*		32.645	1218A-22X-CC	1218B-22X-7, 83–84	225.88	227.10	226.49	226.51	227.52	227.02	0.51
Revised	B *Dorcadospyris quadripes*		32.645	1218C-16X-3, 143–144	1218A-23X-1, 48–51	229.14	230.22	229.68	228.54	228.62	228.58	0.04
Nigrini et al., 2006	B *Lychnodictyum audax*		32.885	1218A-23X-1, 48–51	1218A-23X-2, 105–107	230.22	231.82	231.02	228.62	230.69	229.66	1.04
Revised	T *Theocyrtis careotuberosa*		32.885	1218C-16X-3, 49–50	1218C-16X-3, 143–144	228.20	229.14	228.67	227.60	228.54	228.07	0.47
Revised	B *Theocyrtis tuberosa*		33.125	1218C-17X-3, 73–74	1218C-17X-3, 99–100	237.60	237.86	237.73	237.00	237.26	237.13	0.13
Revised	B *Dorcadospyris pseudopapilio*		33.025	1218C-15X-5, 50–51	1218C-15X-5, 143–144	219.87	221.01	220.44	219.47	220.34	219.90	0.44
Revised	B *Lithocyclia crux*		33.125	1218B-23X-4, 98–99	1218A-23X-4, 45–47	233.65	233.89	233.77	232.97	233.09	233.03	0.06
Revised	B *Centrobotrys gravida*		33.125	1218A-23X-3, 115–117	1218B-23X-4, 98–99	233.19	233.65	233.42	232.29	232.97	232.63	0.34
Revised	T *Dictyoprora mongolfieri*		33.235	1218C-17X-4, 123–124	1218C-17X-4, 141–142	239.60	239.78	239.69	239.00	239.18	239.09	0.09
Revised	T *Lithocyclia ocellus* gr.		33.355	1218C-17X-4, 141–142	1218C-17X-5, 24–25	239.78	240.10	239.94	239.18	239.50	239.34	0.16
Revised	T *Lithocyclia aristotelis* gr.		33.530	1218C-17X-4, 123–124	1218C-17X-4, 141–142	239.60	239.78	239.69	239.00	239.18	239.09	0.09
Revised	B *Lophocyrtis* (*S.*) *oberhaensliae*		33.125	1218C-17X-5, 49–51	1218A-24X-1, 45–47	240.35	240.66	240.51	239.75	240.03	239.89	0.14
Revised	T *Cryptocarpium ornatum*		33.530	1218C-17X-4, 141–142	1218C-17X-5, 24–25	239.78	240.10	239.94	239.18	239.50	239.34	0.16
Revised	T *Calocyclas hispida*		33.530	1218B-24X-6, 50–51	1218B-24X-6, 78–79	248.16	248.44	248.30	247.56	247.84	247.70	0.14
Revised	*Lithocyclia aristotelis* gr. > *Lithocyclia angusta*		33.585	1218C-17X-5, 117–118	1218C-17X-6, 23–24	241.04	241.28	241.16	240.44	240.70	240.57	0.13
Revised	T *Calocycletta* (*C.*) *anekathen*		33.655	1218C-17X-4, 24–25	1218C-17X-5, 49–51	240.10	240.35	240.23	239.50	239.75	239.63	0.13
Revised	T *Lophocyrtis* (*L.*) *jacchia*		33.720	1218C-17X-6, 52–54	1218A-24X-2, 45–47	241.50	241.76	241.63	241.01	241.24	241.13	0.12
Nigrini et al., 2006	T *Dictyoprora pirum*		33.720	1218C-17X-5, 49–51	1218A-24X-1, 45–47	240.35	240.61	240.48	239.75	240.03	239.89	0.14
Revised	T *Dictyoprora armadillo*		33.720	1218C-17X-5, 117–118	1218C-17X-6, 23–24	241.04	241.28	241.16	240.44	240.70	240.57	0.13
Revised	T *Lychnocanoma babylonis*		33.720	1218C-17X-5, 117–118	1218C-17X-6, 23–24	241.04	241.28	241.16	240.44	240.70	240.57	0.13
Revised	T *Lophocyrtis* (*C.*) *hadra*		33.720	1218C-17X-6, 23–24	1218C-17X-6, 52–54	241.28	241.50	241.39	240.70	241.01	240.86	0.16
Revised	T *Lychnocanoma amphitrite*		33.720	1218C-17X-5, 117–118	1218C-17X-6, 23–24	241.04	241.28	241.16	240.44	240.70	240.57	0.13
Revised	T *Lophocyrtis* (*L.*) *exitelus*		33.720	1218C-17X-6, 23–24	1218C-17X-6, 52–54	241.28	241.50	241.39	240.70	241.01	240.86	0.16
Revised	T *Dorcadospyris copelata*	RP19	33.720	1218C-17X-6, 23–24	1218C-17X-6, 52–54	241.28	241.50	241.39	240.70	241.01	240.86	0.16
Revised	T *Zealithapium mitra*		33.720	1218C-17X-6, 23–24	1218C-17X-6, 52–54	241.28	241.50	241.39	240.70	241.01	240.86	0.16
Revised	T *Artophormis barbadensis*		33.720	1218C-17X-4, 123–124	1218C-17X-4, 141–142	239.60	239.78	239.69	239.00	239.18	239.09	0.09
Revised	B *Lithocyclia angusta*		34.035	1218C-17X-6, 123–124	1218C-17X-6, 144–145	242.29	242.52	242.41	241.81	242.00	241.90	0.10
Revised	B *Lophocyrtis* (*C.*) *milowi*		34.035	1218C-17X-6, 123–124	1218C-17X-6, 144–145	242.29	242.52	242.41	241.81	242.00	241.90	0.10
Nigrini et al., 2006	B *Pteropilium* sp. aff. *Pterocanium contiguum*		34.035	1218A-24X-2, 98–100	1218A-24X-3, 54–56	242.21	243.04	242.63	241.61	242.44	242.03	0.42
Revised	T *Dorcadospyris ombros* (upper)		34.245	1218C-17X-7, 23–24	1218A-24X-3, 54–56	242.85	243.04	242.95	242.30	242.44	242.37	0.07
Revised	B *Lophocyrtis* (*L.*) *exitelus*		34.245	1218B-24X-3, 48–49	1218B-24X-3, 98–99	243.64	244.14	243.89	243.04	243.54	243.29	0.25
Revised	T *Calocyclas bandyca*		34.420	1218B-24X-6, 22–23	1218C-18X-1, 50–52	247.88	247.99	247.94	247.28	247.45	247.36	0.08

Table T36 (continued). (Continued on next page.)

Source	Event	Zone	Age* (Ma)	Hole, core, section, interval (cm)		Depth from Pälike et al. (2005) (rmcd)			Depth adjusted (corrected rmcd)			Error (±) (m)
				Top	Bottom	Top	Bottom	Mean	Top	Bottom	Mean	
Revised	T *Calocyclas turris*		34.420	1218B-24X-6, 50–51	1218B-24X-6, 78–79	248.16	248.44	248.30	247.56	247.84	247.70	0.14
Revised	T *Cryptocarpium azyx*	RP19	34.420	1218B-24X-5, 27–28	1218B-24X-5, 48–49	246.42	246.64	246.53	245.82	246.04	245.93	0.11
Revised	T *Thyrsocyrtis* (*T.*) *bromia* (continuous)		35.405	1218B-24X-6, 22–23	1218C-18X-1, 50–52	247.88	247.99	247.94	247.28	247.45	247.36	0.08
Revised	T *Thyrsocyrtis* (*P.*) *tetracantha* (continuous)		35.405	1218B-24X-5, 143–144	1218A-24X-7, 15–17	247.60	247.83	247.72	247.00	247.23	247.12	0.12
Revised	B *Lophocyrtis* (*C.*) *hadra*		35.405	1218C-18X-1, 50–52	1218B-24X-6, 50–51	247.98	248.16	248.07	247.44	247.56	247.50	0.06
Revised	T *Thyrsocyrtis* (*P.*) *lochites* (continuous)		35.405	1218B-24X-3, 123–124	1218B-24X-3, 143–144	244.40	244.60	244.50	243.80	244.00	243.90	0.10
Revised	T *Thyrsocyrtis* (*T.*) *rhizodon*		35.405	1218B-24X-6, 50–51	1218B-24X-6, 78–79	248.16	248.44	248.30	247.56	247.84	247.70	0.14
Revised	T *Thyrsocyrtis* (*P.*) *krooni*		35.520	1218B-24X-6, 104–106	1218B-24X-6, 78–79	248.91	248.44	248.68	244.16	247.84	246.00	1.84
Revised	T *Thyrsocyrtis* (*P.*) *triacantha* (continuous)		35.405	1218B-25X-1, 99–100	1218C-18X-4, 45–47	252.05	252.45	252.25	251.51	251.91	251.71	0.20
Revised	T *Artophormis dominasinensis*	RP18	35.563	1218C-18X-3, 20–22	1218A-25X-1, 24–26	250.69	251.14	250.92	250.15	250.60	250.38	0.23
Revised	T *Eusyringium fistuligerum*		33.910	1218B-25X-1, 144–145	1218A-25X-2, 82–84	252.77	253.07	252.92	252.23	252.39	252.31	0.08
Revised	B *Artophormis gracilis*		36.100	1218B-25X-1, 20–21	1218B-25X-1, 50–52	251.35	251.92	251.64	250.81	251.26	251.04	0.22
Revised	T *Lychnocanoma turgidum*		35.195	1218B-24X-5, 143–144	1218A-24X-7, 15–17	247.60	247.83	247.72	247.00	247.23	247.12	0.12
Revised	B *Calocycletta* (*C.*) *anekathen*		36.830	1218B-25X-3, 101–102	1218A-25X-4, 63–65	255.25	255.96	255.61	254.78	255.32	255.05	0.27
Revised	T *Theocyrtis perpumila*		36.830	1218A-25X-2, 82–84	1218B-25X-2, 50–51	253.07	253.33	253.20	252.39	252.70	252.54	0.15
Revised	B *Lychnocanoma amphitrite*		36.100	1218B-25X-2, 100–101	1218B-25X-2, 137–138	253.83	254.21	254.02	253.21	253.63	253.42	0.21
Revised	B *Calocyclas bandyca*		36.830	1218B-25X-3, 50–51	1218B-25X-3, 74–75	254.73	254.97	254.85	254.20	254.47	254.34	0.13
Revised	B *Lophocyrtis* (*L.*) *jacchia*		36.830	1218A-25X-4, 63–65	1218B-26X-1, 50–51	255.96	256.41	256.19	255.32	255.87	255.59	0.28
Revised	T *Thyrsocyrtis* (*P.*) *orthotenes*	RP17	36.315	1218B-25X-1, 99–100	1218C-18X-4, 45–47	252.30	252.45	252.38	251.76	251.91	251.84	0.07
Revised	T *Podocyrtis* (*P.*) *papalis* (continuous)		36.830	1218B-26X-3, 73–74	1218B-26X-3, 100–101	259.15	259.41	259.28	258.61	258.87	258.74	0.13
Revised	B *Cryptocarpium azyx*		37.475	1218B-26X-3, 73–74	1218B-26X-3, 100–101	259.15	259.41	259.28	258.61	258.87	258.74	0.13
Revised	B *Thyrsocyrtis* (*P.*) *lochites*		37.475	1218B-26X-2, 97–98	1218B-26X-3, 23–24	258.39	258.65	258.52	257.85	258.11	257.98	0.13
Revised	T *Anthocyrtoma* spp.		37.925	1218B-26X-3, 22–23	1218A-26X-1, 46–48	260.15	261.28	260.72	259.61	260.72	260.16	0.55
Revised	B *Dorcadospyris copelata*		38.095	1218B-26X-4, 73–74	1218B-26X-4, 100–101	260.05	260.91	260.48	259.51	260.37	259.94	0.43
Revised	T *Calocycloma ampulla*		38.095	1218B-26X-4, 73–74	1218B-26X-4, 100–101	260.05	260.91	260.48	259.51	260.37	259.94	0.43
Revised	T *Rhopalocanium ornatum*		38.095	1218B-26X-4, 73–74	1218A-25X-CC	260.05	261.06	260.56	259.51	259.89	259.70	0.19
Revised	B *Botryocella* sp. gr.		38.095	1218B-26X-4, 73–74	1218A-25X-CC	260.05	261.06	260.56	259.51	259.89	259.70	0.19
Revised	T *Spongatractus pachystylus*		38.095	1218B-26X-4, 100–101	1218B-26X-4, 123–124	260.91	261.15	261.03	260.37	260.61	260.49	0.12
Revised	B *Thyrsocyrtis* (*T.*) *bromia*		38.095	1218B-26X-4, 123–124	1218B-26X-4, 143–144	261.15	261.35	261.25	260.61	260.81	260.71	0.10
Revised	B *Thyrsocyrtis* (*P.*) *tetracantha*		38.245	1218B-26X-5, 73–74	1218A-26X-2, 45–47	262.15	262.34	262.25	261.61	261.78	261.70	0.08
Revised	B *Theocyrtis careotuberosa*		38.245	1218B-26X-6, 24–25	1218B-26X-6, 50–51	263.30	263.61	263.46	262.61	262.87	262.74	0.13
Revised	T *Zygocircus cimelium*		38.675	1218A-26X-3, 123–124	1218A-26X-3, 144–145	264.61	264.81	264.71	264.07	264.27	264.17	0.10
Revised	B *Dorcadospyris ombros* (upper)		38.245	1218B-26X-5, 23–24	1218B-26X-5, 50–51	261.65	261.91	261.78	261.11	261.37	261.24	0.13
Revised	B *Artophormis dominasinensis*		38.334	1218B-26X-4, 123–124	1218B-26X-4, 143–144	261.15	261.35	261.25	260.61	260.81	260.71	0.10
Revised	B *Tristylospyris triceros*		38.245	1218B-26X-5, 143–144	1218B-26X-6, 24–25	262.94	263.30	263.12	262.31	262.61	262.46	0.15
Revised	T *Theocotylissa ficus*	RP16	38.485	1218B-26X-5, 123–124	1218B-26X-5, 143–144	262.70	262.94	262.82	262.11	262.31	262.21	0.10
Revised	T *Dorcadospyris anastasis*		38.485	1218B-26X-5, 123–124	1218B-26X-5, 143–144	262.70	262.94	262.82	262.11	262.31	262.21	0.10
Revised	B *Calocyclas turris*		38.485	1218A-26X-4, 73–74	1218A-26X-4, 100–101	265.61	265.87	265.74	265.07	265.33	265.20	0.13
Revised	T *Podocyrtis* (*L.*) *chalara* (continuous)		38.485	1218A-26X-5, 23–24	1218A-26X-5, 46–48	266.61	266.83	266.72	266.07	266.29	266.18	0.11
Revised	T *Podocyrtis* (*L.*) *goetheana* (continuous)		38.675	1218A-26X-3, 123–124	1218A-26X-4, 23–24	264.61	264.81	264.71	264.07	264.27	264.17	0.10
Nigrini et al., 2006	T *Dictyophimus craticula*		38.860	1218A-26X-4, 45–47	1218A-26X-5, 46–48	265.32	266.83	266.08	264.78	266.29	265.54	0.76
Revised	B *Thyrsocyrtis* (*P.*) *krooni*		39.110	1218A-26X-6, 144–145	1218A-26X-7, 9–11	269.24	269.41	269.33	268.65	268.79	268.72	0.07
Revised	T *Podocyrtis* (*P.*) *apeza*		39.355	1218B-26X-5, 73–74	1218A-26X-2, 45–47	262.15	262.34	262.25	261.61	261.78	261.70	0.08
Nigrini et al., 2006	B *Dictyoprora pirum*		39.355	1218A-26X-6, 45–47	1218A-26X-7, 9–11	268.31	269.41	268.86	267.75	268.79	268.27	0.52
Revised	T *Lithochytris vespertilio*		39.355	1218A-26X-6, 144–145	1218A-26X-7, 9–11	269.24	269.41	269.33	268.65	268.79	268.72	0.07
Nigrini et al., 2006	T *Sethochytris triconiscus*		39.535	1218A-26X-7, 9–11	1218A-26X-CC, 0	269.41	270.38	269.90	268.79	269.45	269.12	0.33
Nigrini et al., 2006	B *Lithocyclia aristotelis* gr.		39.625	1218A-26X-CC	1218A-27X-1, 45–47	270.38	270.64	270.51	269.45	270.10	269.78	0.32
Nigrini et al., 2006	T *Dorcadospyris ombros* (lower)		39.730	1218A-27X-1, 45–47	1218A-27X-2, 45–57	270.64	272.02	271.33	270.10	271.47	270.79	0.69
Nigrini et al., 2006	T *Podocyrtis* (*L.*) *mitra*		39.730	1218A-27X-1, 45–47	1218A-27X-2, 45–57	270.64	272.02	271.33	270.10	271.47	270.79	0.69
Nigrini et al., 2006	B *Dorcadospyris anastasis*		39.930	1218A-27X-2, 45–57	1218A-27X-3, 52–54	272.02	273.55	272.79	271.47	273.01	272.24	0.77

Table T36 (continued).

Source	Event	Zone	Age* (Ma)	Hole, core, section, interval (cm)		Depth from Pälike et al. (2005) (rmcd)			Depth adjusted (corrected rmcd)			Error (±) (m)
				Top	Bottom	Top	Bottom	Mean	Top	Bottom	Mean	
Nigrini et al., 2006	B *Dictyoprora armadillo*	RP16	38.860	1218A-26X-4, 45–47	1218A-26X-5, 46–48	265.32	266.83	266.08	264.78	266.29	265.54	0.76
Nigrini et al., 2006	B *Podocyrtis* (*L.*) *goetheana*		39.930	1218A-27X-2, 45–57	1218A-27X-3, 52–54	272.02	273.55	272.79	271.47	273.01	272.24	0.77
Nigrini et al., 2006	T *Lophocyrtis biaurita*	RP15	40.345	1218A-27X-4, 40–42	1218A-27X-5, 45–47	274.93	275.98	275.46	274.39	275.44	274.92	0.53
Nigrini et al., 2006	*Podocyrtis* (*L.*) *mitra* > *Podocyrtis* (*L.*) *chalara*		41.335	1218A-29X-1, 51–53	1218A-29X-3, 49–51	288.98	291.96	290.47	288.44	291.42	289.93	1.49
Nigrini et al., 2006	B *Podocyrtis* (*P.*) *apeza*	RP14	41.335	1218A-29X-1, 51–53	1218A-29X-3, 49–51	288.98	291.96	290.47	288.44	291.42	289.93	1.49

* = Nigrini et al. (2006). T = top, B = bottom.

Table T37. Site 1219 radiolarian datums. (Continued on next four pages.)

Source	Event	Zone	Age* (Ma)	Hole, core, section, interval (cm) Top	Hole, core, section, interval (cm) Bottom	Depth (mcd) Top	Depth (mcd) Bottom	Depth from Pälike et al. (2005) (rmcd) Top	Depth from Pälike et al. (2005) (rmcd) Bottom	Depth from Pälike et al. (2005) (rmcd) Mean	Depth Site 1218 (corrected rmcd) Top	Depth Site 1218 (corrected rmcd) Bottom	Depth Site 1218 (corrected rmcd) Mean	Error (±) (m)
				199-	199-									
Nigrini et al., 2006	T *Dorcadospyris praeforcipata*			1219A-4H-6, 46–48	1219A-4H-7, 46–48	33.84	35.34	67.41	69.89	68.65	67.49	69.86	68.67	1.19
Nigrini et al., 2006	B *Didymocyrtis violina*			1219A-4H-6, 46–48	1219A-4H-7, 46–48	33.84	35.34	67.41	69.89	68.65	67.49	69.86	68.67	1.19
Nigrini et al., 2006	B *Didymocyrtis tubaria* (upper)			1219A-4H-7, 46–48	1219A-4H-CC	35.34	35.75	69.89	70.61	70.25	69.86	70.52	70.19	0.33
Nigrini et al., 2006	B *Dorcadospyris simplex*	RN2		1219A-4H-CC	1219A-5H-1, 45–47	35.75	37.24	70.61	73.18	71.90	70.52	73.19	71.85	1.34
Nigrini et al., 2006	T *Calocycletta* (*C.*) *serrata*			1219A-5H-1, 45–47	1219A-5H-2, 55–57	37.24	38.84	73.18	75.68	74.43	73.19	75.79	74.49	1.30
Nigrini et al., 2006	B *Stichocorys delmontensis*			1219A-5H-2, 55–57	1219A-5H-3, 46–48	38.84	38.84	75.68	75.68	75.68	75.79	75.79	75.79	0.00
Nigrini et al., 2006	T *Lophocyrtis* (*C.*) *pegetrum*			1219A-5H-2, 55–57	1219A-5H-3, 45–47	38.84	40.24	75.68	77.71	76.70	75.79	77.66	76.73	0.93
Nigrini et al., 2006	B *Carpocanopsis bramlettei*			1219A-5H-4, 45–47	1219A-5H-5. 45–47	41.74	43.24	80.66	82.26	81.46	80.55	82.25	81.40	0.85
Nigrini et al., 2006	T *Theocyrtis annosa*			1219A-5H-4, 45–47	1219A-5H-5, 45–47	41.74	43.24	80.66	82.26	81.46	80.55	82.25	81.40	0.85
Nigrini et al., 2006	B *Calocycletta* (*C.*) *virginis*			1219A-5H-4, 45–47	1219A-5H-5. 45–47	41.74	43.24	80.66	82.26	81.46	80.55	82.25	81.40	0.85
Nigrini et al., 2006	B *Lophocyrtis* (*C.*) *leptetrum*			1219A-5H-6, 45–47	1219A-5H-7, 45–47	44.74	46.24	83.33	85.52	84.43	83.57	85.41	84.49	0.92
Nigrini et al., 2006	T *Didymocyrtis tubaria* (lower)	RN1		1219A-5H-CC, 14–18	1219A-6H-1, 45–47	46.76	48.47	86.24	88.14	87.19	86.17	88.50	87.33	1.16
Nigrini et al., 2006	T *Eucyrtidium mitodes*			1219A-5H-CC, 14–18	1219A-6H-1, 45–47	46.76	48.47	86.24	88.14	87.19	86.17	88.50	87.33	1.16
Nigrini et al., 2006	B *Calocycletta* (*C.*) *serrata*			1219A-6H-2, 45–47	1219A-6H-3, 45–47	49.97	51.47	90.32	92.54	91.43	90.36	92.45	91.41	1.04
Nigrini et al., 2006	B *Cyrtocapsella cornuta*			1219A-6H-2, 45–47	1219A-6H-3, 45–47	49.97	51.47	90.32	92.54	91.43	90.36	92.45	91.41	1.04
Nigrini et al., 2006	B *Cyrtocapsella tetrapera*			1219A-6H-3, 45–47	1219A-6H-4, 45–47	51.47	52.97	92.54	95.54	94.04	92.45	94.70	93.58	1.13
Nigrini et al., 2006	T *Artophormis gracilis*			1219A-6H-3, 45–47	1219A-6H-4, 45–47	51.47	52.97	92.54	95.54	94.04	92.45	94.70	93.58	1.13
Nigrini et al., 2006	B *Eucyrtidium diaphanes*			1219A-6H-4, 45–47	1219A-6H-5, 45–47	52.97	54.97	95.54	97.31	96.43	94.70	97.95	96.33	1.62
Nigrini et al., 2006	B *Didymocyrtis bassanii*			1219A-6H-5, 45–47	1219A-6H-6, 45–47	54.97	55.97	97.31	99.42	98.37	97.95	99.45	98.70	0.75
Nigrini et al., 2006	T *Dorcadospyris cyclacantha*			1219A-6H-5, 45–47	1219A-6H-6, 45–47	54.97	55.97	97.31	99.42	98.37	97.95	99.45	98.70	0.75
Nigrini et al., 2006	T *Dorcadospyris riedeli* (upper)			1219A-6H-5, 45–47	1219A-6H-6, 45–47	54.97	55.97	97.31	99.42	98.37	97.95	99.45	98.70	0.75
Nigrini et al., 2006	B *Dorcadospyris cyclacantha*	RP22		1219A-6H-7, 18–20	1219A-6H-CC, 18–23	57.20	57.92	101.24	101.98	101.61	102.04	103.88	102.96	0.92
Nigrini et al., 2006	T *Dorcadospyris circulus* (max)			1219A-6H-7, 18–20	1219A-6H-CC, 18–23	57.20	57.92	101.24	101.98	101.61	102.04	103.88	102.96	0.92
Nigrini et al., 2006	T *Dorcadospyris papilio*			1219A-6H-7, 18–20	1219A-6H-CC, 18–23	57.20	57.92	101.24	101.98	101.61	102.04	103.88	102.96	0.92
Nigrini et al., 2006	T *Liriospyris longicornuta*			1219A-7H-6, 45–47	1219A-7H-CC, 24–29	63.36	65.01	114.03	118.01	116.02	114.10	117.98	116.04	1.94
Nigrini et al., 2006	B *Carpocanopsis cingulata*			1219A-7H-6, 45–47	1219A-7H-CC, 24–29	63.36	65.01	114.03	118.01	116.02	114.10	117.98	116.04	1.94
Nigrini et al., 2006	T *Acrocubus octopylus* (lower)			1219A-7H-6, 45–47	1219A-7H-CC, 24–29	63.04	65.01	114.03	118.01	116.02	113.01	117.98	115.49	2.49
Nigrini et al., 2006	T *Lychnocanoma apodora*			1219A-7H-6, 45–47	1219A-7H-CC, 24–29	63.36	65.01	114.03	118.01	116.02	114.10	117.98	116.04	1.94
Nigrini et al., 2006	B *Lychnocanoma elongata*			1219A-8H-1, 43–45	1219B-6H-3, 46–48	66.48	66.80	120.31	120.88	120.60	120.33	120.81	120.57	0.24
Nigrini et al., 2006	B *Acrocubus octopylus* (lower)			1219A-8H-1, 43–45	1219B-6H-3, 46–48	66.48	66.80	120.31	120.88	120.60	120.33	120.81	120.57	0.24
Nigrini et al., 2006	B *Didymocyrtis tubaria* (lower)			1219A-8H-2, 45–47	1219A-8H-4, 45–47	68.00	71.00	123.01	128.45	125.73	122.75	128.46	125.61	2.85
Nigrini et al., 2006	B *Calocycletta* (*C.*) *robusta*			1219A-8H-2, 45–47	1219A-8H-4, 45–47	68.00	71.00	123.01	128.45	125.73	122.75	128.46	125.61	2.85
Nigrini et al., 2006	B *Dorcadospyris praeforcipata*			1219A-8H-2, 45–47	1219A-8H-4, 45–47	68.00	71.00	123.01	128.45	125.73	122.75	128.46	125.61	2.85
Nigrini et al., 2006	B *Liriospyris longicornuta*			1219A-8H-2, 45–47	1219A-8H-4, 45–47	68.00	71.00	123.01	128.45	125.73	122.75	128.46	125.61	2.85
Nigrini et al., 2006	B *Dorcadospyris scambos*			1219A-8H-4, 45–47	1219A-8H-6, 45–47	71.00	74.00	128.45	132.30	130.38	128.46	132.33	130.40	1.94
Nigrini et al., 2006	T *Theocorys puriri*			1219A-8H-4, 45–47	1219A-8H-6, 45–47	71.00	74.00	128.45	132.30	130.38	128.46	132.33	130.40	1.94
Nigrini et al., 2006	B *Acrobotrys disolenia*			1219A-8H-4, 45–47	1219A-8H-6, 45–47	71.00	74.00	128.45	132.30	130.38	128.46	132.33	130.40	1.94
Nigrini et al., 2006	B *Dorcadospyris papilio*	RP21		1219A-8H-6, 45–47	1219A-8H-CC, 20–24	74.00	76.10	132.30	134.25	133.28	132.33	134.23	133.28	0.95
Nigrini et al., 2006	B *Lychnocanoma apodora*			1219A-8H-6, 45–47	1219A-8H-CC, 20–24	74.00	76.10	132.30	134.25	133.28	132.33	134.23	133.28	0.95
Nigrini et al., 2006	T *Dorcadospyris circulus* (continuous)			1219A-9H-5, 46–48	1219A-9H-CC, 10–14	86.33	89.72	143.32	148.56	145.94	145.28	148.55	146.92	1.63
Nigrini et al., 2006	B *Dorcadospyris riedeli* (upper)			1219A-9H-5, 46–48	1219A-9H-CC, 10–14	86.33	89.72	143.32	148.56	145.94	145.28	148.55	146.92	1.63
Nigrini et al., 2006	T *Eucyrtidium plesiodiaphanes*			1219A-9H-5, 46–48	1219A-9H-CC, 10–14	86.33	89.72	143.32	148.56	145.94	145.28	148.55	146.92	1.63
Nigrini et al., 2006	T *Lithocyclia angusta* (continuous)			1219A-10H-4, 45–47	1219A-10H-CC, 27–32	95.92	100.54	155.96	160.33	158.15	155.19	159.90	157.54	2.35
Nigrini et al., 2006	T *Theocyrtis setanios*			1219A-11H-2, 45–47	1219A-11H-4, 45–47	106.86	109.86	163.88	166.63	165.26	166.41	169.02	167.72	1.30
Nigrini et al., 2006	T *Theocyrtis perysinos*			1219A-11H-7, 45–47	1219A-11H-CC, 11–17	114.36	114.54	170.66	170.85	170.76	173.68	173.90	173.79	0.11
Nigrini et al., 2006	T *Tristylospyris triceros*			1219A-12H-4, 45–47	1219A-12H-5, 45–47	121.08	122.58	177.46	178.98	178.22	180.87	182.46	181.66	0.80
Nigrini et al., 2006	B *Theocyrtis annosa*			1219A-12H-5, 45–47	1219A-12H-6, 45–47	122.58	124.08	178.98	180.60	179.79	182.46	184.06	183.26	0.80
Nigrini et al., 2006	*Tristylospyris triceros* > *Dorcadospyris ateuchus*			1219A-12H-6, 45–47	1219A-12H-7, 45–47	124.08	125.58	180.60	182.26	181.43	184.06	185.66	184.86	0.80

Table T37 (continued). (Continued on next page.)

Source	Event	Zone	Age* (Ma)	Hole, core, section, interval (cm) Top	Hole, core, section, interval (cm) Bottom	Depth (mcd) Top	Depth (mcd) Bottom	Depth from Pälike et al. (2005) (rmcd) Top	Depth from Pälike et al. (2005) (rmcd) Bottom	Depth from Pälike et al. (2005) (rmcd) Mean	Depth Site 1218 (corrected rmcd) Top	Depth Site 1218 (corrected rmcd) Bottom	Depth Site 1218 (corrected rmcd) Mean	Error (±) (m)
Nigrini et al., 2006	B *Eucyrtidium mitodes*			1219A-12H-CC, 24–30	1219A-13H-5, 45–47	126.21	136.10	182.96	193.91	188.44	186.36	197.39	191.87	5.52
Nigrini et al., 2006	B *Theocyrtis perysinos*			1219A-13H-5, 45–47	1219A-13H-CC, 7–12	136.10	139.67	193.91	198.15	196.03	197.39	200.73	199.06	1.67
Nigrini et al., 2006	B *Dorcadospyris ateuchus*			1219A-12H-7, 45–47	1219A-12H-CC, 24–30	125.58	126.21	182.26	182.96	182.61	185.66	186.36	186.01	0.35
Nigrini et al., 2006	B *Theocyrtis setanios*			1219A-12H-CC, 24–30	1219A-13H-5, 45–47	126.21	136.10	182.96	193.91	188.44	186.36	197.39	191.87	5.52
Nigrini et al., 2006	T *Lophocyrtis* (*C.*) *milowi*			1219A-12H-CC, 24–30	1219A-13H-3, 45–47	126.21	133.10	182.96	190.59	186.78	186.36	194.04	190.20	3.84
Nigrini et al., 2006	B *Theocorys puriri*			1219A-13H-5, 45–47	1219A-13H-CC, 7–12	136.10	139.67	193.91	198.15	196.03	197.39	200.73	199.06	1.67
Nigrini et al., 2006	B *Didymocyrtis prismatica*			1219A-13H-5, 45–47	1219A-13H-CC, 7–12	136.10	139.67	193.91	198.15	196.03	197.39	200.73	199.06	1.67
Nigrini et al., 2006	B *Dorcadospyris circulus*			1219A-13H-CC, 7–12	1219A-14H-2, 45–47	139.67	143.40	198.15	201.17	199.66	200.73	204.74	202.73	2.01
Nigrini et al., 2006	T *Lophocyrtis* (*S.*) *oberhaensliae*			1219A-13H-CC, 7–12	1219A-14H-2, 45–47	139.67	143.40	198.15	201.17	199.66	200.73	204.74	202.73	2.01
Nigrini et al., 2006	T *Theocyrtis tuberosa*			1219A-14H-2, 45–47	1219A-14H-4, 45–47	143.40	146.40	201.17	204.84	203.01	204.74	208.28	206.51	1.77
Nigrini et al., 2006	T *Lithocyclia crux*			1219A-14H-2, 45–47	1219A-14H-4, 45–47	143.40	146.40	201.17	204.84	203.01	204.74	208.28	206.51	1.77
Nigrini et al., 2006	T *Dorcadospyris spinosa*			1219A-14H-2, 45–47	1219A-14H-4, 45–47	143.40	146.40	201.17	204.84	203.01	204.74	208.28	206.51	1.77
Nigrini et al., 2006	T *Dorcadospyris quadripes*			1219A-14H-2, 45–47	1219A-14H-4, 45–47	143.40	146.40	201.17	204.84	203.01	204.74	208.28	206.51	1.77
Nigrini et al., 2006	B *Eucyrtidium plesiodiaphanes*			1219A-14H-2, 45–47	1219A-14H-4, 45–47	143.40	146.40	201.17	204.84	203.01	204.74	208.28	206.51	1.77
Nigrini et al., 2006	B *Lophocyrtis* (*C.*) *pegetrum*			1219A-14H-6, 45–47	1219A-14H-CC, 14–18	149.40	151.42	208.41	210.95	209.68	211.91	214.11	213.01	1.10
Nigrini et al., 2006	T *Dorcadospyris riedeli* (lower)			1219A-14H-CC, 14–18	1219A-15H-2, 46–48	151.42	154.31	210.95	214.43	212.69	214.11	216.65	215.38	1.27
Nigrini et al., 2006	B *Spirocyrtis subtilis*			1219A-14H-CC, 14–18	1219A-15H-2, 46–48	151.42	154.31	210.95	214.43	212.69	214.11	216.65	215.38	1.27
Nigrini et al., 2006	T *Dorcadospyris pseudopapilo*	RP20		1219A-15H-4, 46–48	1219A-15H-6, 46–48	157.31	160.31	218.00	223.33	220.67	219.24	223.66	221.45	2.21
Nigrini et al., 2006	B *Dorcadospyris spinosa*			1219A-15H-4, 46–48	1219A-15H-6, 46–48	157.31	160.31	218.00	223.33	220.67	219.24	223.66	221.45	2.21
Nigrini et al., 2006	B *Dorcadospyris riedeli* (lower)			1219A-15H-CC	1219A-16H-2, 45–47	162.06	165.34	223.62	227.17	225.40	226.01	228.93	227.47	1.46
Nigrini et al., 2006	T *Centrobotrys gravida*			1219A-15H-CC	1219A-16H-2, 45–47	162.06	165.34	223.62	227.17	225.40	226.01	228.93	227.47	1.46
Nigrini et al., 2006	B *Centrobotrys petrushevskayae*			1219A-15H-6, 46–48	1219A-15H-CC	160.31	162.06	223.33	223.62	223.48	223.66	226.01	224.83	1.17
Nigrini et al., 2006	B *Dorcadospyris quadripes*			1219A-16H-3, 45–47	1219A-16H-4, 45–47	166.84	168.34	228.60	229.47	229.04	230.30	231.79	231.04	0.74
Nigrini et al., 2006	B *Lychnodictyum audax*			1219A-16H-2, 45–47	1219A-16H-3, 45–47	165.34	166.84	227.17	228.60	227.89	228.93	230.30	229.62	0.68
Nigrini et al., 2006	T *Theocyrtis careotuberosa*			1219A-16H-3, 45–47	1219A-16H-4, 45–47	166.84	168.34	228.60	229.47	229.04	230.30	231.79	231.04	0.74
Nigrini et al., 2006	B *Theocyrtis tuberosa*			1219A-16H-5, 45–47	1219A-16H-6, 45–47	169.89	171.39	230.47	231.91	231.19	233.30	236.15	234.73	1.43
Nigrini et al., 2006	B *Dorcadospyris pseudopapilio*			1219A-16H-6, 45–47	1219A-16H-7, 45–47	171.39	172.89	231.91	235.53	233.72	236.15	238.69	237.42	1.27
Nigrini et al., 2006	B *Lithocyclia crux*			1219A-16H-6, 45–47	1219A-16H-7, 45–47	171.39	172.89	231.91	235.53	233.72	236.15	238.69	237.42	1.27
Nigrini et al., 2006	B *Centrobotrys gravida*			1219A-16H-6, 45–47	1219A-16H-7, 45–47	171.39	172.89	231.91	235.53	233.72	236.15	238.69	237.42	1.27
Nigrini et al., 2006	T *Dictyoprora mongolfieri*			1219A-16H-6, 45–47	1219A-16H-7, 45–47	171.39	172.89	231.91	235.53	233.72	236.15	238.69	237.42	1.27
Nigrini et al., 2006	T *Thyrsocyrtis* (*P.*) *triacantha* (max)			1219A-17H-2, 20–22	1219A-17H-3, 45–47	175.53	176.55	239.04	240.60	239.82	241.94	242.95	242.44	0.50
Nigrini et al., 2006	T *Lithocyclia ocellus* gr.			1219A-17H-2, 20–22	1219A-17H-3, 45–47	175.53	176.55	239.04	240.60	239.82	241.94	242.95	242.44	0.50
Nigrini et al., 2006	T *Lithocyclia aristotelis* gr.			1219A-17H-2, 20–22	1219A-17H-3, 45–47	175.53	176.55	239.04	240.60	239.82	241.94	242.95	242.44	0.50
Nigrini et al., 2006	B *Lophocyrtis* (*S.*) *oberhaensliae*			1219A-17H-2, 20–22	1219A-17H-3, 45–47	175.53	176.55	239.04	240.60	239.82	241.94	242.95	242.44	0.50
Nigrini et al., 2006	T *Cryptocarpium ornatum*			1219A-17H-2, 20–22	1219A-17H-3, 45–47	175.53	176.55	239.04	240.60	239.82	241.94	242.95	242.44	0.50
Nigrini et al., 2006	T *Calocyclas hispida*			1219A-17H-2, 20–22	1219A-17H-3, 45–47	175.53	176.55	239.04	240.60	239.82	241.94	242.95	242.44	0.50
Nigrini et al., 2006	*Lithocyclia aristotelis* gr. > *Lithocyclia angusta*			1219A-17H-2, 20–22	1219A-17H-3, 45–47	175.53	176.55	239.04	240.60	239.82	241.94	242.95	242.44	0.50
Nigrini et al., 2006	T *Calocycletta* (*C.*) *anekathen*			1219A-17H-2, 20–22	1219A-17H-3, 45–47	175.53	176.55	239.04	240.60	239.82	241.94	242.95	242.44	0.50
Nigrini et al., 2006	T *Lophocyrtis* (*L.*) *jacchia*			1219A-17H-2, 20–22	1219A-17H-3, 45–47	175.53	176.55	239.04	240.60	239.82	241.94	242.95	242.44	0.50
Nigrini et al., 2006	T *Dictyoprora pirum*			1219A-17H-2, 20–22	1219A-17H-3, 45–47	175.53	176.55	239.04	240.60	239.82	241.94	242.95	242.44	0.50
Nigrini et al., 2006	T *Dictyoprora armadillo*			1219A-17H-2, 20–22	1219A-17H-3, 45–47	175.53	176.55	239.04	240.60	239.82	241.94	242.95	242.44	0.50
Nigrini et al., 2006	T *Lychnocanoma babylonis*			1219A-17H-3, 45–47	1219A-17H-4, 45–47	176.55	177.34	240.60	241.06	240.83	242.95	243.72	243.33	0.39
Nigrini et al., 2006	T *Lophocyrtis* (*C.*) *hadra*	RP19		1219A-17H-3, 45–47	1219A-17H-4, 45–47	176.55	177.34	240.60	241.06	240.83	242.95	243.72	243.33	0.39
Nigrini et al., 2006	T *Lychnocanoma amphitrite*			1219A-17H-3, 45–47	1219A-17H-4, 45–47	176.55	177.34	240.60	241.06	240.83	242.95	243.72	243.33	0.39
Nigrini et al., 2006	T *Lophocyrtis* (*L.*) *exitelus*			1219A-17H-3, 45–47	1219A-17H-4, 45–47	176.55	177.34	240.60	241.06	240.83	242.95	243.72	243.33	0.39
Nigrini et al., 2006	T *Dorcadospyris copelata*			1219A-17H-4, 45–47	1219A-17H-5, 32–34	177.34	179.01	241.06	242.92	241.99	243.72	245.38	244.55	0.83
Nigrini et al., 2006	T *Zealithapium mitra*			1219A-17H-4, 45–47	1219A-17H-5, 32–34	177.34	179.01	241.06	242.92	241.99	243.72	245.38	244.55	0.83
Nigrini et al., 2006	T *Artophormis barbadensis*			1219A-17H-4, 45–47	1219A-17H-5, 32–34	177.34	179.01	241.06	242.92	241.99	243.72	245.38	244.55	0.83
Nigrini et al., 2006	B *Lithocyclia angusta*			1219A-17H-4, 45–47	1219A-17H-5, 32–34	177.34	179.01	241.06	242.92	241.99	243.72	245.38	244.55	0.83

Table T37 (continued). (Continued on next page.)

Source	Event	Zone	Age* (Ma)	Hole, core, section, interval (cm)		Depth (mcd)		Depth from Pälike et al. (2005) (rmcd)			Depth Site 1218 (corrected rmcd)			Error (±) (m)
				Top	Bottom	Top	Bottom	Top	Bottom	Mean	Top	Bottom	Mean	
Nigrini et al., 2006	B *Lophocyrtis* (C.) *milowi*			1219A-17H-4, 45–47	1219A-17H-5, 32–34	177.34	179.01	241.06	242.92	241.99	243.72	245.38	244.55	0.83
Nigrini et al., 2006	B *Pteropilium* sp.aff. *Pterocanium contiguum*			1219A-17H-5, 32–34	1219A-17H-6, 45–47	179.01	180.65	242.92	244.68	243.80	245.38	247.18	246.28	0.90
Nigrini et al., 2006	T *Dorcadospyris ombros* (upper)			1219A-17H-6, 45–47	1219A-17H-7, 45–47	180.65	182.15	244.68	246.28	245.48	247.18	248.90	248.04	0.86
Nigrini et al., 2006	B *Lophocyrtis* (*L.*) *exitelus*	RP19		1219A-17H-6, 45–47	1219A-17H-7, 45–47	180.65	182.15	244.68	246.28	245.48	247.18	248.90	248.04	0.86
Nigrini et al., 2006	T *Calocyclas bandyca*			1219A-17H-6, 45–47	1219A-17H-7, 45–47	180.65	182.15	244.68	246.28	245.48	247.18	248.90	248.04	0.86
Nigrini et al., 2006	T *Calocyclas turris*			1219A-17H-7, 45–47	1219A-17H-CC, 12–17	182.15	183.22	246.28	247.38	246.83	248.90	249.70	249.30	0.40
Nigrini et al., 2006	T *Cryptocarpium azyx*			1219A-17H-CC, 12–17	1219A-18H-1, 45–47	183.22	184.78	247.38	248.62	248.00	249.70	250.74	250.22	0.52
Nigrini et al., 2006	T *Thyrsocyrtis* (*T.*) *bromia* (continuous)			1219A-17H-CC, 12–17	1219A-18H-1, 45–47	183.22	184.78	247.38	248.62	248.00	249.70	250.74	250.22	0.52
Nigrini et al., 2006	T *Thyrsocyrtis* (*P.*) *tetracantha* (continuous)			1219A-17H-CC, 12–17	1219A-18H-1, 45–47	183.22	184.78	247.38	248.62	248.00	249.70	250.74	250.22	0.52
Nigrini et al., 2006	B *Lophocyrtis* (C.) *hadra*			1219A-17H-CC, 12–17	1219A-18H-1, 45–47	183.22	184.78	247.38	248.62	248.00	249.70	250.74	250.22	0.52
Nigrini et al., 2006	T *Thyrsocyrtis* (*P.*) *lochites* (continuous)			1219A-17H-CC, 12–17	1219A-18H-1, 45–47	183.22	184.78	247.38	248.62	248.00	249.70	250.74	250.22	0.52
Nigrini et al., 2006	T *Thyrsocyrtis* (*T.*) *rhizodon*			1219A-17H-CC, 12–17	1219A-18H-1, 45–47	183.22	184.78	247.38	248.62	248.00	249.70	250.74	250.22	0.52
Nigrini et al., 2006	T *Thyrsocyrtis* (*P.*) *krooni*			1219A-17H-CC, 12–17	1219A-18H-1, 45–47	183.22	184.78	247.38	248.62	248.00	249.70	250.74	250.22	0.52
Nigrini et al., 2006	T *Thyrsocyrtis* (*P.*) *triacantha* (continuous)			1219A-17H-CC, 12–17	1219A-18H-1, 45–47	183.22	184.78	247.38	248.62	248.00	249.70	250.74	250.22	0.52
Nigrini et al., 2006	T *Artophormis dominasinensis*	RP18		1219A-17H-CC, 12–17	1219A-18H-1, 45–47	183.22	184.78	247.38	248.62	248.00	249.70	250.74	250.22	0.52
Nigrini et al., 2006	T *Eusyringium fistuligerum*			1219A-18H-1, 45–47	1219A-18H-2, 45–47	184.78	186.28	248.62	249.19	248.91	250.74	251.73	251.24	0.50
Nigrini et al., 2006	B *Artophormis gracilis*			1219A-18H-3, 45–47	1219A-18H-4, 45–47	187.78	189.28	250.69	252.23	251.46	252.78	254.02	253.40	0.62
Nigrini et al., 2006	T *Lychnocanoma turgidum*			1219A-18H-4, 45–47	1219A-18H-5, 45–47	189.28	190.78	252.23	253.62	252.93	254.02	255.33	254.68	0.65
Nigrini et al., 2006	B *Calocycletta* (*C.*) *anekathen*			1219A-18H-5, 45–47	1219A-18H-6, 45–47	190.78	192.28	253.62	255.10	254.36	255.33	256.63	255.98	0.65
Nigrini et al., 2006	T *Theocyrtis perpumila*			1219A-18H-CC, 17–22	1219A-19H-1, 45–47	194.30	195.25	256.40	257.03	256.72	258.32	259.01	258.67	0.34
Nigrini et al., 2006	B *Lychnocanoma amphitrite*			1219A-18H-5, 45–47	1219A-18H-6, 45–47	190.78	192.28	253.62	255.10	254.36	255.33	256.63	255.98	0.65
Nigrini et al., 2006	B *Calocyclas bandyca*			1219A-18H-5, 45–47	1219A-18H-6, 45–47	190.78	192.28	253.62	255.10	254.36	255.33	256.63	255.98	0.65
Nigrini et al., 2006	B *Lophocyrtis* (*L.*) *jacchia*			1219A-18H-CC, 17–22	1219A-19H-1, 45–47	194.30	195.25	256.40	257.03	256.72	258.32	259.01	258.67	0.34
Nigrini et al., 2006	T *Thyrsocyrtis* (*P.*) *orthotenes*	RP17		1219A-18H-CC, 17–22	1219A-19H-1, 45–47	194.30	195.25	256.40	257.03	256.72	258.32	259.01	258.67	0.34
Nigrini et al., 2006	T *Podocyrtis* (*P.*) *papalis* (continuous)			1219A-19H-1, 45–47	1219A-19H-2, 45–47	195.25	196.78	257.03	258.40	257.72	259.01	260.62	259.81	0.80
Nigrini et al., 2006	B *Cryptocarpium azyx*			1219A-19H-1, 45–47	1219A-19H-2, 45–47	195.25	196.78	257.03	258.40	257.72	259.01	260.62	259.81	0.80
Nigrini et al., 2006	B *Thyrsocyrtis* (*P.*) *lochites*			1219A-19H-1, 45–47	1219A-19H-2, 45–47	195.25	196.78	257.03	258.40	257.72	259.01	260.62	259.81	0.80
Nigrini et al., 2006	T *Anthocyrtoma* spp.			1219A-19H-3, 45–47	1219A-19H-4, 45–47	198.28	199.78	259.79	260.97	260.38	261.96	263.08	262.52	0.56
Nigrini et al., 2006	B *Dorcadospyris copelata*			1219A-19H-3, 45–47	1219A-19H-4, 45–47	198.28	199.78	259.79	260.97	260.38	261.96	263.08	262.52	0.56
Nigrini et al., 2006	T *Calocycloma ampulla*			1219A-19H-3, 45–47	1219A-19H-4, 45–47	198.28	199.78	259.79	260.97	260.38	261.96	263.08	262.52	0.56
Nigrini et al., 2006	T *Rhopalocanium ornatum*			1219A-19H-3, 45–47	1219A-19H-4, 45–47	198.28	199.78	259.79	260.97	260.38	261.96	263.08	262.52	0.56
Nigrini et al., 2006	B *Botryocella* sp. gr.			1219A-20H-6, 45–47	1219A-20H-7, 45–47	212.86	214.36	272.52	263.87	268.20	274.58	276.66	275.62	1.04
Nigrini et al., 2006	T *Spongatractus pachystylus*			1219A-19H-3, 45–47	1219A-19H-4, 45–47	198.28	199.78	259.79	260.97	260.38	261.96	263.08	262.52	0.56
Nigrini et al., 2006	B *Thyrsocyrtis* (T.) *bromia*			1219A-19H-3, 45–47	1219A-19H-4, 45–47	198.28	199.78	259.79	260.97	260.38	261.96	263.08	262.52	0.56
Nigrini et al., 2006	B *Thyrsocyrtis* (P.) *tetracantha*			1219A-19H-3, 45–47	1219A-19H-4, 45–47	198.28	199.78	259.79	260.97	260.38	261.96	263.08	262.52	0.56
Nigrini et al., 2006	B *Theocyrtis careotuberosa*			1219A-19H-4, 45–47	1219A-19H-5, 45–47	199.78	201.28	260.97	262.23	261.60	263.08	264.37	263.73	0.65
Nigrini et al., 2006	T *Zygocircus cimelium*	RP16		1219A-19H-4, 45–47	1219A-19H-5, 45–47	199.78	201.28	260.97	262.23	261.60	263.08	264.37	263.73	0.65
Nigrini et al., 2006	B *Dorcadospyris ombros* (upper)			1219A-19H-4, 45–47	1219A-19H-5, 45–47	199.78	201.28	260.97	262.23	261.60	263.08	264.37	263.73	0.65
Nigrini et al., 2006	B *Artophormis dominasinensis*			1219A-19H-5, 45–47	1219A-19H-6, 45–47	201.28	202.78	262.23	263.77	263.00	264.37	265.67	265.02	0.65
Nigrini et al., 2006	B *Tristylospyris triceros*			1219A-19H-5, 45–47	1219A-19H-6, 45–47	201.28	202.78	262.23	263.77	263.00	264.37	265.67	265.02	0.65
Nigrini et al., 2006	T *Theocotylissa ficus*			1219A-19H-5, 45–47	1219A-19H-6, 45–47	201.28	202.78	262.23	263.77	263.00	264.37	265.67	265.02	0.65
Nigrini et al., 2006	T *Dorcadospyris anastasis*			1219A-19H-5, 45–47	1219A-19H-6, 45–47	201.28	202.78	262.23	263.77	263.00	264.37	265.67	265.02	0.65
Nigrini et al., 2006	B *Calocyclas turris*			1219A-19H-5, 45–47	1219A-19H-6, 45–47	201.28	202.78	262.23	263.77	263.00	264.37	265.67	265.02	0.65
Nigrini et al., 2006	T *Podocyrtis* (L.) *chalara* (continuous)			1219A-19H-6, 45–47	1219A-19H-CC, 0–3	202.78	204.31	263.77	265.30	264.54	265.67	267.21	266.44	0.77
Nigrini et al., 2006	T *Podocyrtis* (L.) *goetheana* (continuous)			1219A-19H-6, 45–47	1219A-19H-CC, 0–3	202.78	204.31	263.77	265.30	264.54	265.67	267.21	266.44	0.77
Nigrini et al., 2006	T *Dictyophimus craticula*			1219A-19H-CC, 0–3	1219A-20H-1, 45–47	204.31	205.78	265.30	266.76	266.03	267.21	268.68	267.94	0.74

Table T37 (continued). (Continued on next page.)

Source	Event	Zone	Age* (Ma)	Hole, core, section, interval (cm) Top	Hole, core, section, interval (cm) Bottom	Depth (mcd) Top	Depth (mcd) Bottom	Depth from Pälike et al. (2005) (rmcd) Top	Depth from Pälike et al. (2005) (rmcd) Bottom	Depth from Pälike et al. (2005) (rmcd) Mean	Depth Site 1218 (corrected rmcd) Top	Depth Site 1218 (corrected rmcd) Bottom	Depth Site 1218 (corrected rmcd) Mean	Error (±) (m)
Nigrini et al., 2006	B *Thyrsocyrtis* (*P.*) *krooni*			1219A-19H-CC, 0–3	1219A-20H-1, 45–47	204.31	205.78	265.30	266.76	266.03	267.21	268.68	267.94	0.74
Nigrini et al., 2006	T *Podocyrtis* (*P.*) *apeza*			1219A-20H-1, 45–47	1219A-20H-2, 45–47	205.78	207.28	266.76	267.99	267.38	268.68	270.08	269.38	0.70
Nigrini et al., 2006	B *Dictyoprora pirum*			1219A-20H-5, 45–47	1219A-20H-6, 45–47	211.36	212.86	271.19	272.52	271.86	272.63	274.58	273.61	0.97
Nigrini et al., 2006	T *Lithochytris vespertilio*			1219A-20H-5, 45–47	1219A-20H-6, 45–47	211.36	212.86	271.19	272.52	271.86	272.63	274.58	273.61	0.97
Nigrini et al., 2006	T *Sethochytris triconiscus*	RP16		1219A-20H-5, 45–47	1219A-20H-6, 45–47	211.36	212.86	271.19	272.52	271.86	272.63	274.58	273.61	0.97
Nigrini et al., 2006	B *Lithocyclia aristotelis* gr.			1219A-20H-5, 45–47	1219A-20H-6, 45–47	211.36	212.86	271.19	272.52	271.86	272.63	274.58	273.61	0.97
Nigrini et al., 2006	T *Dorcadospyris ombros* (lower)			1219A-20H-4, 45–47	1219A-20H-5, 45–47	209.81	211.36	269.95	271.19	270.57	271.68	272.63	272.16	0.48
Nigrini et al., 2006	T *Podocyrtis* (*L.*) *mitra*			1219A-20H-5, 45–47	1219A-20H-6, 45–47	211.36	212.86	271.19	272.52	271.86	272.63	274.58	273.61	0.97
Nigrini et al., 2006	B *Dorcadospyris anastasis*			1219A-20H-6, 45–47	1219A-20H-7, 45–47	212.86	214.36	272.52	263.87	268.20	274.58	276.66	275.62	1.04
Nigrini et al., 2006	B *Dictyoprora armadillo*			1219A-20H-6, 45–47	1219A-20H-7, 45–47	212.86	214.36	272.52	263.87	268.20	274.58	276.66	275.62	1.04
Nigrini et al., 2006	B *Podocyrtis* (*L.*) *goetheana*			1219A-20H-6, 45–47	1219A-20H-7, 45–47	212.86	214.36	272.52	263.87	268.20	274.58	276.66	275.62	1.04
Nigrini et al., 2006	T *Lophocyrtis biaurita*	RP15		1219A-21H-1, 45–47	1219A-21H-2, 45–47	216.28	217.78	276.20	277.70	276.95				
Nigrini et al., 2006	T *Podocyrtis* (*L.*) *trachodes*			1219A-22H-1, 46–48	1219A-22H-2, 46–48	226.79	228.29	290.43	292.62	291.53				
Nigrini et al., 2006	*Podocyrtis* (*L.*) *mitra* > *Podocyrtis* (*L.*) *chalara*			1219A-22H-1, 46–48	1219A-22H-2, 46–48	226.79	228.29	290.43	292.62	291.53				
Nigrini et al., 2006	B *Dorcadospyris ombros* (lower)			1219A-22H-1, 46–48	1219A-22H-2, 46–48	226.79	228.29	290.43	292.62	291.53				
Nigrini et al., 2006	B *Artophormis barbadensis*			1219A-22H-1, 46–48	1219A-22H-2, 46–48	226.79	228.29	290.43	292.62	291.53				
Nigrini et al., 2006	B *Podocyrtis* (*P.*) *apeza*			1219A-22H-1, 46–48	1219A-22H-2, 46–48	226.79	228.29	290.43	292.62	291.53				
Nigrini et al., 2006	B *Podocyrtis* (*L.*) *chalara*			1219A-22H-2, 46–48	1219A-22H-3, 46–48	228.29	299.79	292.62	294.86	293.74				
Nigrini et al., 2006	T *Podocyrtis* (*P.*) *ampla*			1219A-22H-3, 46–48	1219A-22H-4, 46–48	299.79	231.29	294.86	296.78	295.82				
Nigrini et al., 2006	B *Zealithapium mitra*			1219A-22H-4, 46–48	1219A-22H-5, 46–48	231.29	232.79	296.78	298.09	297.44				
Nigrini et al., 2006	T *Zealithapium anoectum*			1219A-22H-4, 46–48	1219A-22H-5, 46–48	231.29	232.79	296.78	298.09	297.44				
Nigrini et al., 2006	B *Cryptocarpium ornatum*			1219A-22H-5, 46–48	1219A-22H-6, 46–48	232.79	234.29	298.09						
Nigrini et al., 2006	B *Sethochytris triconiscus*			1219A-22H-5, 46–48	1219A-22H-6, 46–48	232.79	234.29	298.09						
Nigrini et al., 2006	T *Eusyringium lagena*	RP14		1219A-23H-1, 45–47	1219A-23H-2, 45–47	237.28	238.78							
Nigrini et al., 2006	T *Podocyrtis* (*L.*) *fasciolata*			1219A-23H-1, 45–47	1219A-23H-2, 45–47	237.28	238.78							
Nigrini et al., 2006	T *Zealithapium plegmacantha*			1219A-23H-1, 45–47	1219A-23H-2, 45–47	237.28	238.78							
Nigrini et al., 2006	T *Podocyrtis* (*L.*) *sinuosa*			1219A-23H-1, 45–47	1219A-23H-2, 45–47	237.28	238.78							
Nigrini et al., 2006	*Zealithapium plegmacantha* > *Zealithapium anoectum*			1219A-23H-1, 45–47	1219A-23H-4, 49–50	237.28	241.82							
Nigrini et al., 2006	B *Theocyrtis perpumila*			1219A-23H-2, 45–47	1219A-23H-3, 12–14	238.78	239.95							
Nigrini et al., 2006	T *Podocyrtis* (*L.*) *helenae*			1219A-23H-3, 12–14	1219A-23H-4, 49–50	239.95	241.82							
Nigrini et al., 2006	B *Lychnocanoma turgidum*			1219A-23H-3, 12–14	1219A-23H-4, 49–50	239.95	241.82							
Nigrini et al., 2006	*Eusyringium lagena* > *Eusyringium fistuligerum*			1219A-23H-2, 45–47	1219A-23H-4, 49–50	238.78	241.82							
Nigrini et al., 2006	*Podocyrtis* (*L.*) *sinuosa* > *Podocyrtis* (*L.*) *mitra*			1219A-23H-4, 49–50	1219A-23H-5, 45–47	241.82	243.28							
Nigrini et al., 2006	B *Podocyrtis* (*L.*) *trachodes*			1219A-23H-5, 45–47	1219A-23H-6, 45–47	243.28	244.78							
Nigrini et al., 2006	B *Zygocircus cimelium*			1219A-23H-7, 45–47	1219A-23H-CC, 23–27	246.28	246.76							
Nigrini et al., 2006	B *Podocyrtis* (*L.*) *fasciolata*			1219A-24H-1, 45–47	1219A-24H-2, 45–47	247.78	249.28							
Nigrini et al., 2006	B *Podocyrtis* (*L.*) *helenae*	RP13		1219A-24H-1, 45–47	1219A-24H-2, 45–47	247.78	249.28							
Nigrini et al., 2006	T *Podocyrtis* (*P.*) *diamesa*			1219A-24H-2, 45–47	1219A-24H-3, 45–47	249.28	250.78							
Nigrini et al., 2006	T *Podocyrtis* (*P.*) *phyxis*			1219A-24H-2, 45–47	1219A-24H-3, 45–47	249.28	250.78							
Nigrini et al., 2006	T *Spongatractus balbis*			1219A-24H-2, 45–47	1219A-24H-3, 45–47	249.28	250.78							
Nigrini et al., 2006	B *Podocyrtis* (*L.*) *mitra*			1219A-24H-2, 45–47	1219A-24H-3, 45–47	249.28	250.78							
Nigrini et al., 2006	*Podocyrtis* (*P.*) *phyxis* > *Podocyrtis* (*P.*) *ampla*			1219A-24H-2, 45–47	1219A-24H-3, 45–47	249.28	250.78							
Nigrini et al., 2006	B *Podocyrtis* (*P.*) *ampla*			1219A-24H-2, 45–47	1219A-24H-3, 45–47	249.28	250.78							
Nigrini et al., 2006	B *Eusyringium fistuligerum*	RP12		1219A-24H-2, 45–47	1219A-24H-3, 45–47	249.28	250.78							
Nigrini et al., 2006	T *Theocotyle venezuelensis*			1219A-24H-3, 45–47	1219A-24H-4, 45–47	250.78	252.28							

Table T37 (continued).

Source	Event	Zone	Age* (Ma)	Hole, core, section, interval (cm)		Depth (mcd)		Depth from Pälike et al. (2005) (rmcd)			Depth Site 1218 (corrected rmcd)			Error (±) (m)
				Top	Bottom	Top	Bottom	Top	Bottom	Mean	Top	Bottom	Mean	
Nigrini et al., 2006	B *Zealithapium anoectum*	RP12		1219A-24H-3, 45–47	1219A-24H-4, 45–47	250.78	252.28							
Nigrini et al., 2006	T *Theocotyle conica*			1219A-24H-3, 45–47	1219A-24H-4, 45–47	250.78	252.28							
Nigrini et al., 2006	T *Theocotyle cryptocephala*			1219A-24H-4, 45–47	1219A-24H-5, 45–47	252.28	253.83							
Nigrini et al., 2006	B *Thyrsocyrtis* (*P.*) *orthotenes*			1219A-24H-5, 45–47	1219A-24H-6, 45–47	253.83	255.33							
Nigrini et al., 2006	T *Thyrsocyrtis* (*T.*) *robusta*			1219A-24H-5, 45–47	1219A-24H-6, 45–47	253.83	255.33							
Nigrini et al., 2006	*Podocyrtis* (*P.*) *diamesa* > *Podocyrtis* (*P.*) *phyxis*			1219A-24H-5, 45–47	1219A-24H-6, 45–47	253.83	255.33							
Nigrini et al., 2006	B *Podocyrtis* (*P.*) *phyxis*			1219A-24H-6, 45–47	1219A-24H-7, 45–47	255.33	256.83							
Nigrini et al., 2006	T *Periphaena tripyramis triangula*			1219A-24H-6, 45–47	1219A-24H-7, 45–47	255.33	256.83							
Nigrini et al., 2006	T *Periphaena delta*			1219A-24H-7, 45–47	1219A-24H-CC, 21–24	256.83	257.21							
Nigrini et al., 2006	T *Lamptonium* fab. *chaunothorax*			1219A-24H-7, 45–47	1219A-24H-CC, 21–24	256.83	257.21							
Nigrini et al., 2006	T *Lamptonium* fab. *constrictum*			1219A-25X-2, 45–47	1219A-25X-CC, 35–40	259.78	259.40							

* = Nigrini et al. (2006). T = top, B = bottom.

Table T38. Site 1220 radiolarian datums. (Continued on next four pages.)

Source	Event	Zone	Age* (Ma)	Hole, core, section, interval (cm) Top	Hole, core, section, interval (cm) Bottom	Depth from Pälike et al. (2005) (rmcd) Top	Depth from Pälike et al. (2005) (rmcd) Bottom	Depth from Pälike et al. (2005) (rmcd) Mean	Depth adjusted (rmcd) Top	Depth adjusted (rmcd) Bottom	Depth adjusted (rmcd) Mean	Error (±) (m)
				199-	199-							
Nigrini et al., 2006	T *Theocyrtis annosa*			1220A-3H-4, 45–47	1220A-3H-5, 45–47	23.90	24.90	24.40	23.90	24.90	24.40	0.50
Nigrini et al., 2006	T *Eucyrtidium mitodes* n. sp.	RN1		1220A-3H-6, 45–47	1220A-3H-CC	26.40	28.94	27.67	26.40	28.80	27.60	1.20
Nigrini et al., 2006	B *Cyrtocapsella cornuta*			1220A-3H-6, 45–47	1220A-3H-CC	26.40	28.94	27.67	26.40	28.80	27.60	1.20
Nigrini et al., 2006	B *Cyrtocapsella tetrapera*			1220A-3H-6, 45–47	1220A-3H-CC	26.40	28.94	27.67	26.40	28.80	27.60	1.20
Nigrini et al., 2006	T *Artophormis gracilis*			1220A-3H-6, 45–47	1220A-3H-CC	26.40	28.94	27.67	26.40	28.80	27.60	1.20
Nigrini et al., 2006	B *Eucyrtidium diaphanes*			1220A-3H-6, 45–47	1220A-3H-CC	26.40	28.94	27.67	26.40	28.80	27.60	1.20
Nigrini et al., 2006	T *Dorcadospyris circulus* (max)	RP22		1220A-3H-CC	1220A-4H-2, 45–47	28.94	32.70	30.82	28.80	32.70	30.75	1.95
Nigrini et al., 2006	T *Dorcadospyris papilio*			1220A-3H-CC	1220A-4H-2, 45–47	28.94	32.70	30.82	28.80	32.70	30.75	1.95
Nigrini et al., 2006	T *Liriospyris longicornuta*			1220A-3H-CC	1220A-4H-2, 45–47	28.94	32.70	30.82	28.80	32.70	30.75	1.95
Nigrini et al., 2006	T *Acrocubus octopylus* (upper)			1220A-4H-2, 45–47	1220A-4H-4, 45–47	32.70	35.70	34.20	32.70	35.70	34.20	1.50
Nigrini et al., 2006	B *Lychnocanoma elongata*			1220A-4H-2, 45–47	1220A-4H-3, 45–47	32.70	34.20	33.45	32.70	34.20	33.45	0.75
Nigrini et al., 2006	B *Acrocubus octopylus* (lower)			1220A-4H-4, 45–47	1220A-4H-6, 45–47	35.70	38.70	37.20	35.70	38.70	37.20	1.50
Nigrini et al., 2006	B *Didymocyrtis tubaria* (lower)			1220A-3H-CC	1220A-4H-2, 45–47	28.94	32.70	30.82	28.80	32.70	30.75	1.95
Nigrini et al., 2006	B *Calocycletta* (*C.*) *robusta*			1220A-4H-4, 45–47	1220A-4H-6, 45–47	35.70	38.70	37.20	35.70	38.70	37.20	1.50
Nigrini et al., 2006	B *Liriospyris longicornuta*			1220A-4H-4, 45–47	1220A-4H-6, 45–47	35.70	38.70	37.20	35.70	38.70	37.20	1.50
Nigrini et al., 2006	B *Dorcadospyris scambos* n. sp.			1220A-4H-6, 45–47	1220A-4H-CC	35.70	38.70	37.20	35.70	38.70	37.20	1.50
Nigrini et al., 2006	T *Theocorys puriri*			1220A-4H-6, 45–47	1220A-4H-CC	35.70	38.70	37.20	35.70	38.70	37.20	1.50
Nigrini et al., 2006	B *Dorcadospyris papilio*			1220A-4H-6, 45–47	1220A-4H-CC	38.70	40.39	39.55	38.70	40.34	39.52	0.82
Nigrini et al., 2006	T *Dorcadospyris circulus* (continuous)	RP21		1220A-4H-CC	1220A-5H-2, 45–47	38.70	43.24	40.97	38.70	43.24	40.97	2.27
Nigrini et al., 2006	B *Dorcadospyris riedeli* (upper)			1220A-5H-2, 45–47	1220B-1H-CC	43.24	43.47	43.36	43.24	43.81	43.53	0.29
Nigrini et al., 2006	T *Eucyrtidium plesiodiaphanes*			1220B-1H-CC	1220A-5H-4, 45–47	43.47	46.24	44.86	43.81	46.24	45.03	1.21
Nigrini et al., 2006	T *Lithocyclia angusta* (continuous)			1220A-5H-4, 45–47	1220A-5H-6, 45–47	46.24	49.24	47.74	46.24	48.87	47.56	1.32
Nigrini et al., 2006	T *Theocyrtis setanios* n. sp.			1220A-5H-4, 45–47	1220A-5H-6, 45–47	46.24	49.24	47.74	46.24	48.87	47.56	1.32
Nigrini et al., 2006	T *Theocyrtis perysinos* n. sp.			1220A-5H-4, 45–47	1220A-5H-6, 45–47	46.24	49.24	47.74	46.24	48.87	47.56	1.32
Nigrini et al., 2006	T *Tristylospyris triceros*			1220A-5H-CC	1220A-6H-1, 45–47	51.29	53.90	52.60	50.65	53.29	51.97	1.32
Nigrini et al., 2006	B *Theocyrtis annosa*			1220A-5H-CC	1220A-6H-1, 45–47	51.29	53.90	52.60	50.65	53.29	51.97	1.32
Nigrini et al., 2006	*Tristylospyris triceros* > *Dorcadospyris ateuchus*			1220A-5H-CC	1220A-6H-1, 45–47	51.29	53.90	52.60	50.65	53.29	51.97	1.32
Nigrini et al., 2006	B *Eucyrtidium mitodes* n. sp.			1220A-6H-4, 45–47	1220A-6H-6, 45–47	57.79	60.79	59.29	57.79	60.79	59.29	1.50
Nigrini et al., 2006	B *Theocyrtis perysinos* n. sp.			1220A-6H-2, 45–47	1220B-2H-CC	54.79	55.93	55.36	54.79	55.93	55.36	0.57
Nigrini et al., 2006	B *Dorcadospyris ateuchus*			1220B-2H-CC	1220A-6H-4, 45–47	55.93	57.79	56.86	55.93	57.79	56.86	0.93
Nigrini et al., 2006	B *Theocyrtis setanios* n. sp.			1220B-2H-CC	1220A-6H-4, 45–47	55.93	57.79	56.86	55.93	57.79	56.86	0.93
Nigrini et al., 2006	T *Lophocyrtis* (*C.*) *milowi*			1220A-6H-4, 45–47	1220A-6H-6, 45–47	57.79	60.79	59.29	57.79	60.79	59.29	1.50
Nigrini et al., 2006	B *Theocorys puriri*			1220A-6H-2, 45–47	1220B-2H-CC	54.79	55.93	55.36	54.79	55.93	55.36	0.57
Nigrini et al., 2006	B *Didymocyrtis prismatica*			1220A-6H-4, 45–47	1220A-6H-6, 45–47	57.79	60.79	59.29	57.79	60.79	59.29	1.50
Nigrini et al., 2006	B *Dorcadospyris circulus*			1220A-6H-4, 45–47	1220A-6H-6, 45–47	57.79	60.79	59.29	57.79	60.79	59.29	1.50
Nigrini et al., 2006	T *Lophocyrtis* (*S.*) *oberhaensliae*			1220A-6H-4, 45–47	1220A-6H-6, 45–47	57.79	60.79	59.29	57.79	60.79	59.29	1.50
Nigrini et al., 2006	T *Theocyrtis tuberosa*			1220A-6H-4, 45–47	1220A-6H-6, 45–47	57.79	60.79	59.29	57.79	60.79	59.29	1.50
Nigrini et al., 2006	T *Lithocyclia crux*			1220A-6H-6, 45–47	1220A-6H-CC	60.79	62.68	61.74	60.79	62.94	61.87	1.08
Nigrini et al., 2006	T *Dorcadospyris spinosa*	RP20		1220A-6H-4, 45–47	1220A-6H-6, 45–47	57.79	60.79	59.29	57.79	60.79	59.29	1.50
Nigrini et al., 2006	T *Dorcadospyris quadripes*			1220A-6H-6, 45–47	1220A-6H-CC	60.79	62.68	61.74	60.79	62.94	61.87	1.08
Nigrini et al., 2006	B *Eucyrtidium plesiodiaphanes*			1220A-6H-6, 45–47	1220A-6H-CC	60.79	62.68	61.74	60.79	62.94	61.87	1.08
Nigrini et al., 2006	B *Lophocyrtis* (*C.*) *pegetrum*			1220A-6H-CC	1220A-7H-2, 45–47	62.68	65.26	63.97	62.94	65.26	64.10	1.16
Nigrini et al., 2006	T *Dorcadospyris riedeli* (lower)			1220A-6H-CC	1220A-7H-2, 45–47	62.68	65.26	63.97	62.94	65.26	64.10	1.16
Nigrini et al., 2006	B *Spirocyrtis subtilis*			1220B-3H-CC	1220A-7H-4, 45–47	65.94	68.22	67.08	65.94	68.22	67.08	1.14
Nigrini et al., 2006	T *Dorcadospyris pseudopapilo*			1220A-7H-4, 45–47	1220A-7H-6, 45–47	68.22	71.22	69.72	68.22	71.22	69.72	1.50
Nigrini et al., 2006	B *Dorcadospyris spinosa*			1220A-7H-4, 45–47	1220A-7H-6, 45–47	68.22	71.22	69.72	68.22	71.22	69.72	1.50
Nigrini et al., 2006	B *Dorcadospyris riedeli* (lower)			1220A-7H-4, 45–47	1220A-7H-6, 45–47	68.22	71.22	69.72	68.22	71.22	69.72	1.50
Nigrini et al., 2006	T *Centrobotrys gravida*			1220A-7H-4, 45–47	1220A-7H-6, 45–47	68.22	71.22	69.72	68.22	71.22	69.72	1.50
Nigrini et al., 2006	B *Centrobotrys petrushevskayae*			1220A-7H-4, 45–47	1220A-7H-6, 45–47	68.22	71.22	69.72	68.22	71.22	69.72	1.50

Table T38 (continued). (Continued on next page.)

Source	Event	Zone	Age* (Ma)	Hole, core, section, interval (cm) Top	Hole, core, section, interval (cm) Bottom	Depth from Pälike et al. (2005) (rmcd) Top	Depth from Pälike et al. (2005) (rmcd) Bottom	Depth from Pälike et al. (2005) (rmcd) Mean	Depth adjusted (rmcd) Top	Depth adjusted (rmcd) Bottom	Depth adjusted (rmcd) Mean	Error (±) (m)
Nigrini et al., 2006	B *Dorcadospyris quadripes*			1220A-7H-4, 45–47	1220A-7H-6, 45–47	68.22	71.22	69.72	68.22	71.22	69.72	1.50
Nigrini et al., 2006	B *Lychnodictyum audax*			1220A-7H-CC	1220A-8H-1, 46–48	72.99	74.60	73.80	72.99	74.60	73.80	0.81
Nigrini et al., 2006	T *Theocyrtis careotuberosa* n. sp.			1220A-7H-CC	1220A-8H-1, 46–48	72.99	74.60	73.80	72.99	74.60	73.80	0.81
Nigrini et al., 2006	B *Theocyrtis tuberosa*			1220A-8H-1, 46–48	1220A-8H-2, 20–22	74.60	75.84	75.22	74.60	75.84	75.22	0.62
Nigrini et al., 2006	B *Dorcadospyris pseudopapilio*			1220A-7H-CC	1220A-8H-1, 46–48	72.99	74.60	73.80	72.99	74.60	73.80	0.81
Nigrini et al., 2006	B *Lithocyclia crux*			1220A-7H-CC	1220A-8H-1, 46–48	72.99	74.60	73.80	72.99	74.60	73.80	0.81
Nigrini et al., 2006	B *Centrobotrys gravida*	RP20		1220A-7H-CC	1220A-8H-1, 46–48	72.99	74.60	73.80	72.99	74.60	73.80	0.81
Nigrini et al., 2006	T *Dictyoprora mongolfieri*			1220A-7H-CC	1220A-8H-1, 46–48	72.99	74.60	73.80	72.99	74.60	73.80	0.81
Nigrini et al., 2006	T *Thyrsocyrtis* (*P.*) *triacantha* (max)			1220A-7H-CC	1220A-8H-1, 46–48	72.99	74.60	73.80	72.99	74.60	73.80	0.81
Nigrini et al., 2006	T *Lithocyclia ocellus* gr.			1220A-7H-CC	1220A-8H-1, 46–48	72.99	74.60	73.80	72.99	74.60	73.80	0.81
Nigrini et al., 2006	T *Lithocyclia aristotelis* gr.			1220A-8H-1, 46–48	1220A-8H-2, 20–22	74.60	75.84	75.22	74.60	75.84	75.22	0.62
Nigrini et al., 2006	B *Lophocyrtis* (*S.*) *oberhaensliae*			1220A-8H-2, 20–22	1220A-8H-3, 46–48	75.84	77.60	76.72	75.84	77.60	76.72	0.88
Nigrini et al., 2006	T *Cryptocarpium ornatum*			1220A-8H-2, 20–22	1220A-8H-3, 46–48	75.84	77.60	76.72	75.84	77.60	76.72	0.88
Nigrini et al., 2006	T *Calocyclas hispida*			1220A-8H-2, 20–22	1220A-8H-3, 46–48	75.84	77.60	76.72	75.84	77.60	76.72	0.88
Nigrini et al., 2006	*Lithocyclia aristotelis* gr. > *Lithocyclia angusta*			1220A-8H-2, 20–22	1220A-8H-3, 46–48	75.84	77.60	76.72	75.84	77.60	76.72	0.88
Nigrini et al., 2006	T *Calocycletta* (*C.*) *anekathen* n. sp.			1220A-8H-2, 20–22	1220A-8H-3, 46–48	75.84	77.60	76.72	75.84	77.60	76.72	0.88
Nigrini et al., 2006	T *Lophocyrtis* (*L.*) *jacchia*			1220A-8H-2, 20–22	1220A-8H-3, 46–48	75.84	77.60	76.72	75.84	77.60	76.72	0.88
Nigrini et al., 2006	T *Dictyoprora pirum*			1220A-8H-2, 20–22	1220A-8H-3, 46–48	75.84	77.60	76.72	75.84	77.60	76.72	0.88
Nigrini et al., 2006	T *Dictyoprora armadillo*			1220A-8H-2, 20–22	1220A-8H-3, 46–48	75.84	77.60	76.72	75.84	77.60	76.72	0.88
Nigrini et al., 2006	T *Lychnocanoma babylonis*			1220A-8H-2, 20–22	1220A-8H-3, 46–48	75.84	77.60	76.72	75.84	77.60	76.72	0.88
Nigrini et al., 2006	T *Lophocyrtis* (*C.*) *hadra*			1220A-8H-2, 20–22	1220A-8H-3, 46–48	75.84	77.60	76.72	75.84	77.60	76.72	0.88
Nigrini et al., 2006	T *Lychnocanoma amphitrite*			1220A-8H-2, 20–22	1220A-8H-3, 46–48	75.84	77.60	76.72	75.84	77.60	76.72	0.88
Nigrini et al., 2006	T *Lophocyrtis* (*L.*) *exitelus*			1220A-8H-2, 20–22	1220A-8H-3, 46–48	75.84	77.60	76.72	75.84	77.60	76.72	0.88
Nigrini et al., 2006	T *Dorcadospyris copelata* n. sp.			1220A-8H-2, 20–22	1220A-8H-3, 46–48	75.84	77.60	76.72	75.84	77.60	76.72	0.88
Nigrini et al., 2006	T *Zealithapium mitra*			1220A-8H-3, 46–48	1220B-4H-CC	77.60	79.08	78.34	77.60	79.15	78.38	0.78
Nigrini et al., 2006	T *Artophormis barbadensis*			1220A-8H-3, 46–48	1220B-4H-CC	77.60	79.08	78.34	77.60	79.15	78.38	0.78
Nigrini et al., 2006	T *Thyrsocyrtis* (*T.*) *bromia* (max)	RP19										
Nigrini et al., 2006	T *Thyrsocyrtis* (*P.*) *lochites* (max)			1220A-8H-2, 20–22	1220A-8H-3, 46–48	75.84	77.60	76.72	75.84	77.60	76.72	0.88
Nigrini et al., 2006	B *Lithocyclia angusta*			1220A-8H-3, 46–48	1220B-4H-CC	77.60	79.08	78.34	77.60	79.15	78.38	0.78
Nigrini et al., 2006	B *Lophocyrtis* (*C.*) *milowi*			1220A-8H-3, 46–48	1220B-4H-CC	77.60	79.08	78.34	77.60	79.15	78.38	0.78
Nigrini et al., 2006	T *Thyrsocyrtis* (*P.*) *tetracantha* (max)			1220A-8H-3, 46–48	1220B-4H-CC	77.60	79.08	78.34	77.60	79.15	78.38	0.78
Nigrini et al., 2006	B *Pteropilium* sp.aff. *Pterocanium contiguum*			1220A-8H-4, 46–48	1220A-8H-5, 46–48	79.10	80.60	79.85	79.10	80.60	79.85	0.75
Nigrini et al., 2006	T *Dorcadospyris ombros* n. sp.			1220A-8H-2, 20–22	1220A-8H-3, 46–48	75.84	77.60	76.72	75.84	77.60	76.72	0.88
Nigrini et al., 2006	B *Lophocyrtis* (*L.*) *exitelus*			1220A-8H-5, 46–48	1220A-8H-6, 46–48	80.60	82.10	81.35	80.60	82.10	81.35	0.75
Nigrini et al., 2006	T *Calocyclas bandyca*			1220A-8H-4, 46–48	1220A-8H-5, 46–48	79.10	80.60	79.85	79.10	80.60	79.85	0.75
Nigrini et al., 2006	T *Calocyclas turris*			1220A-8H-5, 46–48	1220A-8H-6, 46–48	80.60	82.10	81.35	80.60	82.10	81.35	0.75
Nigrini et al., 2006	T *Cryptocarpium azyx*			1220A-8H-7, 46–48	1220A-8H-CC	83.60	84.12	83.86	83.79	84.31	84.05	0.26
Nigrini et al., 2006	T *Thyrsocyrtis* (*T.*) *bromia* (continuous)			1220A-8H-5, 46–48	1220A-8H-6, 46–48	80.60	82.10	81.35	80.60	82.10	81.35	0.75
Nigrini et al., 2006	T *Thyrsocyrtis* (*P.*) *tetracantha* (continuous)			1220A-8H-6, 46–48	1220A-8H-7, 46–48	82.10	83.60	82.85	82.10	83.79	82.95	0.85
Nigrini et al., 2006	B *Lophocyrtis* (*C.*) *hadra*			1220A-8H-7, 46–48	1220A-8H-CC	83.60	84.12	83.86	83.79	84.31	84.05	0.26
Nigrini et al., 2006	T *Thyrsocyrtis* (*P.*) *lochites* (continuous)			1220A-8H-7, 46–48	1220A-8H-CC	83.60	84.12	83.86	83.79	84.31	84.05	0.26
Nigrini et al., 2006	T *Thyrsocyrtis* (*T.*) *rhizodon*			1220A-8H-CC	1220A-9H-2, 45–47	84.12	86.44	85.28	84.31	86.61	85.46	1.15
Nigrini et al., 2006	T *Thyrsocyrtis* (*P.*) *krooni*			1220A-8H-CC	1220A-9H-2, 45–47	84.12	86.44	85.28	84.31	86.61	85.46	1.15
Nigrini et al., 2006	T *Thyrsocyrtis* (*P.*) *triacantha* (continuous)			1220A-9H-2, 45–47	1220A-9H-4, 45–47	86.44	89.44	87.94	86.61	89.60	88.11	1.49
Nigrini et al., 2006	T *Artophormis dominasinensis*	RP18		1220A-9H-2, 45–47	1220A-9H-4, 45–47	86.44	89.44	87.94	86.61	89.60	88.11	1.49
Nigrini et al., 2006	T *Eusyringium fistuligerum*			1220A-8H-6, 46–48	1220A-8H-7, 46–48	82.10	83.60	82.85	82.10	83.79	82.95	0.85
Nigrini et al., 2006	B *Artophormis gracilis*			1220A-9H-6, 45–47	1220A-9H-7, 45–47	92.44	93.94	93.19	92.60	94.10	93.35	0.75
Nigrini et al., 2006	T *Lychnocanoma turgidum*			1220A-9H-2, 45–47	1220A-9H-4, 45–47	86.44	89.44	87.94	86.61	89.60	88.11	1.49
Nigrini et al., 2006	B *Calocycletta* (*C.*) *anekathen* n. sp.			1220A-9H-2, 45–47	1220A-9H-4, 45–47	86.44	89.44	87.94	86.61	89.60	88.11	1.49
Nigrini et al., 2006	T *Theocyrtis perpumila* n. sp.			1220A-9H-4, 45–47	1220B-5H-CC	89.44	90.46	89.95	89.60	90.69	90.15	0.55

Table T38 (continued). (Continued on next page.)

Source	Event	Zone	Age* (Ma)	Hole, core, section, interval (cm) Top	Hole, core, section, interval (cm) Bottom	Depth from Pälike et al. (2005) (rmcd) Top	Depth from Pälike et al. (2005) (rmcd) Bottom	Depth from Pälike et al. (2005) (rmcd) Mean	Depth adjusted (rmcd) Top	Depth adjusted (rmcd) Bottom	Depth adjusted (rmcd) Mean	Error (±) (m)
Nigrini et al., 2006	B *Lychnocanoma amphitrite*	RP18		1220A-9H-6, 45–47	1220A-9H-7, 45–47	92.44	93.94	93.19	92.60	94.10	93.35	0.75
Nigrini et al., 2006	B *Calocyclas bandyca*			1220A-9H-6, 45–47	1220A-9H-7, 45–47	92.44	93.94	93.19	92.60	94.10	93.35	0.75
Nigrini et al., 2006	B *Lophocyrtis* (*L.*) *jacchia*	RP17		1220A-9H-CC	1220A-10H-2, 45–47	94.35	96.77	95.56	94.51	97.06	95.79	1.28
Nigrini et al., 2006	T *Thyrsocyrtis* (*P.*) *orthotenes* n. sp.			1220A-9H-CC	1220A-10H-2, 45–47	94.35	96.77	95.56	94.51	97.06	95.79	1.28
Nigrini et al., 2006	T *Podocyrtis* (*P.*) *papalis* (continuous)			1220A-10H-2, 45–47	1220A-10H-4, 45–47	96.77	99.77	98.27	97.06	100.06	98.56	1.50
Nigrini et al., 2006	B *Cryptocarpium azyx*			1220A-10H-2, 45–47	1220A-10H-4, 45–47	96.77	99.77	98.27	97.06	100.06	98.56	1.50
Nigrini et al., 2006	B *Thyrsocyrtis* (*P.*) *lochites*	RP16		1220A-10H-2, 45–47	1220A-10H-4, 45–47	96.77	99.77	98.27	97.06	100.06	98.56	1.50
Nigrini et al., 2006	T *Anthocyrtoma* spp.			1220A-10H-4, 45–47	1220A-10H-5, 45–47	99.77	101.27	100.52	100.06	101.38	100.72	0.66
Nigrini et al., 2006	B *Dorcadospyris copelata* n. sp.			1220A-10H-2, 45–47	1220A-10H-4, 45–47	96.77	99.77	98.27	97.06	100.06	98.56	1.50
Nigrini et al., 2006	T *Calocycloma ampulla*			1220A-10H-4, 45–47	1220A-10H-5, 45–47	99.77	101.27	100.52	100.06	101.38	100.72	0.66
Nigrini et al., 2006	T *Rhopalocanium ornatum*			1220A-10H-6, 45–47	1220A-10H-CC	102.77	104.51	103.64	102.72	104.41	103.56	0.85
Nigrini et al., 2006	B *Botryocella* sp. gr.			1220A-11H-4, 45–47	1220A-11H-6, 45–47	109.37	112.37	110.87	109.55	112.21	110.88	1.33
Nigrini et al., 2006	T *Spongatractus pachystylus*			1220A-10H-2, 45–47	1220A-10H-4, 45–47	96.77	99.77	98.27	97.06	100.06	98.56	1.50
Nigrini et al., 2006	B *Thyrsocyrtis* (*T.*) *bromia*			1220A-10H-4, 45–47	1220A-10H-5, 45–47	99.77	101.27	100.52	100.06	101.38	100.72	0.66
Nigrini et al., 2006	B *Thyrsocyrtis* (*P.*) *tetracantha*			1220A-10H-4, 45–47	1220A-10H-5, 45–47	99.77	101.27	100.52	100.06	101.38	100.72	0.66
Nigrini et al., 2006	B *Theocyrtis careotuberosa* n. sp.			1220A-10H-5, 45–47	1220B-6H-CC	101.27	101.52	101.40	101.38	101.81	101.59	0.22
Nigrini et al., 2006	T *Zygocircus cimelium*			1220A-10H-2, 45–47	1220A-10H-4, 45–47	96.77	99.77	98.27	97.06	100.06	98.56	1.50
Nigrini et al., 2006	B *Dorcadospyris ombros* n. sp.			1220A-10H-5, 45–47	1220B-6H-CC	101.27	101.52	101.40	101.38	101.81	101.59	0.22
Nigrini et al., 2006	B *Artophormis dominasinensis*			1220A-10H-4, 45–47	1220A-10H-5, 45–47	99.77	101.27	100.52	100.06	101.38	100.72	0.66
Nigrini et al., 2006	B *Tristylospyris triceros*			1220A-10H-4, 45–47	1220A-10H-5, 45–47	99.77	101.27	100.52	100.06	101.38	100.72	0.66
Nigrini et al., 2006	T *Theocotylissa ficus*			1220A-10H-5, 45–47	1220B-6H-CC	101.27	101.52	101.40	101.38	101.81	101.59	0.22
Nigrini et al., 2006	T *Dorcadospyris anastasis* n. sp.			1220A-10H-5, 45–47	1220B-6H-CC	101.27	101.52	101.40	101.38	101.81	101.59	0.22
Nigrini et al., 2006	B *Calocyclas turris*			1220A-10H-CC	1220A-11H-2, 45–47	104.51	106.37	105.44	104.41	106.55	105.48	1.07
Nigrini et al., 2006	T *Podocyrtis* (*L.*) *chalara* (continuous)			1220A-10H-CC	1220A-11H-2, 45–47	104.51	106.37	105.44	104.41	106.55	105.48	1.07
Nigrini et al., 2006	T *Podocyrtis* (*L.*) *goetheana* continuous)			1220A-10H-6, 45–47	1220A-10H-CC	102.77	104.51	103.64	102.72	104.41	103.56	0.85
Nigrini et al., 2006	T *Dictyophimus craticula*			1220A-10H-2, 45–47	1220A-10H-4, 45–47	96.77	99.77	98.27	97.06	100.06	98.56	1.50
Nigrini et al., 2006	B *Thyrsocyrtis* (*P.*) *krooni*			1220A-11H-6, 45–47	1220B-7H-CC	112.37	112.73	112.55	112.21	112.66	112.43	0.22
Nigrini et al., 2006	T *Podocyrtis* (*P.*) *apeza*			1220A-10H-5, 45–47	1220B-6H-CC	101.27	101.52	101.40	101.38	101.81	101.59	0.22
Nigrini et al., 2006	B *Dictyoprora pirum*			1220A-11H-4, 45–47	1220A-11H-6, 45–47	109.37	112.37	110.87	109.64	112.21	110.92	1.29
Nigrini et al., 2006	T *Lithochytris vespertilio*			1220A-11H-4, 45–47	1220A-11H-6, 45–47	109.37	112.37	110.87	109.64	112.21	110.92	1.29
Nigrini et al., 2006	T *Sethochytris triconiscus*			1220A-11H-4, 45–47	1220A-11H-6, 45–47	109.37	112.37	110.87	109.64	112.21	110.92	1.29
Nigrini et al., 2006	B *Lithocyclia aristotelis* gr.			1220A-11H-4, 45–47	1220A-11H-6, 45–47	109.37	112.37	110.87	109.64	112.21	110.92	1.29
Nigrini et al., 2006	T *Dorcadospyris ombros* n. sp.			1220A-11H-4, 45–47	1220A-11H-6, 45–47	109.37	112.37	110.87	109.64	112.21	110.92	1.29
Nigrini et al., 2006	T *Podocyrtis* (*L.*) *mitra*			1220B-7H-CC	1220A-11H-7, 45–47	112.73	113.87	113.30	112.66	113.87	113.27	0.61
Nigrini et al., 2006	B *Dorcadospyris anastasis* n. sp.			1220B-7H-CC	1220A-11H-7, 45–47	112.73	113.87	113.30	112.66	113.87	113.27	0.61
Nigrini et al., 2006	B *Dictyoprora armadillo*			1220B-7H-CC	1220A-11H-7, 45–47	112.73	113.87	113.30	112.66	113.87	113.27	0.61
Nigrini et al., 2006	B *Podocyrtis* (*L.*) *goetheana*			1220A-11H-CC	1220A-12H-2, 45–47	114.51	121.32	117.92	114.77	120.55	117.66	2.89
Nigrini et al., 2006	T *Lophocyrtis biaurita*	RP15		1220A-11H-CC	1220A-12H-2, 45–47	114.51	121.32	117.92	114.77	120.55	117.66	2.89
Nigrini et al., 2006	T *Podocyrtis* (*L.*) *trachodes*			1220A-12H-2, 45–47	1220B-8H-CC	121.32	123.71	122.52	120.55	123.46	122.00	1.45
Nigrini et al., 2006	*Podocyrtis* (*L.*) *mitra* > *Podocyrtis* (*L.*) *chalara*			1220B-9H-1, 45–47	1220A-12H-5, 45–47	125.38	125.82	125.60	124.40	125.05	124.73	0.32
Nigrini et al., 2006	B *Dorcadospyris ombros* n. sp. (lower)	RP14		1220B-9H-2, 45–47	1220A-12H-6, 45–47	126.88	127.33	127.11	125.90	126.50	126.20	0.30
Nigrini et al., 2006	B *Artophormis barbadensis*			1220A-12H-6, 45–47	1220A-12H-CC	127.33	129.20	128.27	126.50	128.26	127.38	0.88
Nigrini et al., 2006	B *Podocyrtis* (*P.*) *apeza*			1220A-12H-CC	1220B-9H-4, 45–47	129.20	129.88	129.54	128.26	128.90	128.58	0.32
Nigrini et al., 2006	B *Podocyrtis* (*L.*) *chalara*			1220A-12H-5, 45–47	1220B-9H-2, 45–47	125.82	126.88	126.35	125.05	125.90	125.48	0.43
Nigrini et al., 2006	T *Podocyrtis* (*P.*) *ampla*			1220A-12H-5, 45–47	1220B-9H-2, 45–47	125.82	126.88	126.35	125.05	125.90	125.48	0.43
Nigrini et al., 2006	B *Zealithapium mitra*			1220A-12H-6, 45–47	1220A-12H-CC	127.33	129.20	128.27	126.50	128.26	127.38	0.88
Nigrini et al., 2006	T *Zealithapium anoectum*			1220A-12H-6, 45–47	1220A-12H-CC	127.33	129.20	128.27	126.50	128.26	127.38	0.88
Nigrini et al., 2006	B *Cryptocarpium ornatum*			1220A-12H-6, 45–47	1220A-12H-CC	127.33	129.20	128.27	126.50	128.26	127.38	0.88
Nigrini et al., 2006	B *Sethochytris triconiscus*			1220B-9H-4, 45–47	1220B-9H-6, 45–47	129.88	132.88	131.38	128.90	131.98	130.44	1.54
Nigrini et al., 2006	T *Eusyringium lagena*			1220B-9H-4, 45–47	1220B-9H-6, 45–47	129.88	132.88	131.38	128.90	131.98	130.44	1.54

Table T38 (continued). (Continued on next page.)

Source	Event	Zone	Age* (Ma)	Hole, core, section, interval (cm) Top	Hole, core, section, interval (cm) Bottom	Depth from Pälike et al. (2005) (rmcd) Top	Depth from Pälike et al. (2005) (rmcd) Bottom	Depth from Pälike et al. (2005) (rmcd) Mean	Depth adjusted (rmcd) Top	Depth adjusted (rmcd) Bottom	Depth adjusted (rmcd) Mean	Error (±) (m)
Nigrini et al., 2006	T *Podocyrtis* (*L.*) *fasciolata*			1220B-9H-6, 45–47	1220B-9H-CC	132.88	134.12	133.50	131.98	133.26	132.62	0.64
Nigrini et al., 2006	T *Zealithapium plegmacantha*			1220B-9H-6, 45–47	1220B-9H-CC	132.88	134.12	133.50	131.98	133.26	132.62	0.64
Nigrini et al., 2006	T *Podocyrtis* (*L.*) *sinuosa*			1220B-9H-CC	1220B-10H-2, 45–47	134.12	136.08	135.10	133.26	135.19	134.22	0.97
Nigrini et al., 2006	*Zealithapium plegmacantha* > *Zealithapium anoectum*	RP14		1220B-9H-CC	1220B-10H-4, 45–47	134.12	139.02	136.57	133.26	138.13	135.69	2.44
Nigrini et al., 2006	B *Theocyrtis perpumila* n. sp.			1220B-9H-CC	1220B-10H-2, 45–47	134.12	136.08	135.10	133.26	135.19	134.22	0.97
Nigrini et al., 2006	T *Podocyrtis* (*L.*) *helenae*			1220B-9H-CC	1220B-10H-2, 45–47	134.12	136.08	135.10	133.26	135.19	134.22	0.97
Nigrini et al., 2006	B *Lychnocanoma turgidum*			1220B-9H-CC	1220B-10H-2, 45–47	134.12	136.08	135.10	133.26	135.19	134.22	0.97
Nigrini et al., 2006	*Eusyringium lagena* > *Eusyringium fistuligerum*			1220B-10H-3, 45–47	1220B-10H-4, 45–47	137.52	139.02	138.27	136.63	138.13	137.38	0.75
Nigrini et al., 2006	*Podocyrtis* (*L.*) *sinuosa* ?*Podocyrtis* (*L.*) *mitra*			1220B-10H-3, 45–47	1220B-10H-4, 45–47	137.52	139.02	138.27	136.63	138.13	137.38	0.75
Nigrini et al., 2006	B *Podocyrtis* (*L.*) *trachodes*			1220B-10H-4, 45–47	1220B-10H-6, 45–47	139.02	142.02	140.52	138.13	141.13	139.63	1.50
Nigrini et al., 2006	B *Zygocircus cimelium*			1220B-9H-CC	1220B-10H-2, 45–47	134.12	136.08	135.10	133.26	135.19	134.22	0.97
Nigrini et al., 2006	B *Podocyrtis* (*L.*) *fasciolata*			1220B-10H-3, 45–47	1220B-10H-4, 45–47	137.52	139.02	138.27	136.63	138.13	137.38	0.75
Nigrini et al., 2006	B *Podocyrtis* (*L.*) *helenae*	RP13		1220B-10H-6, 45–47	1220B-10H-CC	142.02	144.25	143.14	141.13	143.36	142.25	1.12
Nigrini et al., 2006	T *Podocyrtis* (*P.*) *diamesa*			1220B-10H-6, 45–47	1220B-10H-CC	142.02	144.25	143.14	141.13	143.36	142.25	1.12
Nigrini et al., 2006	T *Podocyrtis* (*P.*) *phyxis*			1220B-10H-6, 45–47	1220B-10H-CC	142.02	144.25	143.14	141.13	143.36	142.25	1.12
Nigrini et al., 2006	T *Spongatractus balbis*			1220B-11H-1, 45–47	1220B-11H-2, 45–47	148.64	150.14	149.39	147.75	149.25	148.50	0.75
Nigrini et al., 2006	B *Podocyrtis* (*L.*) *mitra*			1220B-11H-1, 45–47	1220B-11H-2, 45–47	148.64	150.14	149.39	147.75	149.25	148.50	0.75
Nigrini et al., 2006	*Podocyrtis* (*P.*) *phyxis* > *Podocyrtis* (*P.*) *ampla*			1220B-11H-1, 45–47	1220B-11H-2, 45–47	148.64	150.14	149.39	147.75	149.25	148.50	0.75
Nigrini et al., 2006	B *Podocyrtis* (*P.*) *ampla*			1220B-11H-1, 45–47	1220B-11H-2, 45–47	148.64	150.14	149.39	147.75	149.25	148.50	0.75
Nigrini et al., 2006	B *Eusyringium fistuligerum*			1220B-11H-2, 45–47	1220B-11H-4, 45–47	150.14	153.14	151.64	149.25	152.25	150.75	1.50
Nigrini et al., 2006	T *Theocotyle venezuelensis*			1220B-11H-2, 45–47	1220B-11H-4, 45–47	150.14	153.14	151.64	149.25	152.25	150.75	1.50
Nigrini et al., 2006	B *Zealithapium anoectum*			1220B-11H-4, 45–47	1220B-11H-6, 45–47	153.14	156.14	154.64	152.25	155.25	153.75	1.50
Nigrini et al., 2006	T *Theocotyle conica*			1220B-11H-4, 45–47	1220B-11H-6, 45–47	153.14	156.14	154.64	152.25	155.25	153.75	1.50
Nigrini et al., 2006	T *Thyrsocyrtis* (*P.*) *tensa*			1220B-11H-6, 45–47	1220B-11H-CC	156.14	158.25	157.20	155.25	157.36	156.31	1.06
Nigrini et al., 2006	T *Theocotyle cryptocephala*			1220C-11H-3, 10–12	1220C-11H-4, 10–12	161.95	163.45	162.70	161.05	162.55	161.80	0.75
Nigrini et al., 2006	B *Thyrsocyrtis* (*P.*) *orthotenes* n. sp.			1220B-11H-CC	1220C-11H-3, 10–12	158.25	161.95	160.10	157.36	161.05	159.21	1.85
Nigrini et al., 2006	T *Thyrsocyrtis* (*T.*) *robusta*			1220B-11H-CC	1220C-11H-3, 10–12	158.25	161.95	160.10	157.36	161.05	159.21	1.85
Nigrini et al., 2006	*Podocyrtis* (*P.*) *diamesa* > *Podocyrtis* (*P.*) *phyxis*			1220B-11H-CC	1220C-11H-3, 10–12	158.25	161.95	160.10	157.36	161.05	159.21	1.85
Nigrini et al., 2006	B *Podocyrtis* (*P.*) *phyxis*	RP12		1220B-11H-CC	1220C-11H-3, 10–12	158.25	161.95	160.10	157.36	161.05	159.21	1.85
Nigrini et al., 2006	T *Periphaena tripyramis triangula*			1220B-11H-4, 45–47	1220B-11H-6, 45–47	153.14	156.13	154.64	152.25	155.25	153.75	1.50
Nigrini et al., 2006	T *Periphaena delta*			1220C-11H-3, 10–12	1220C-11H-4, 10–12	161.95	163.45	162.70	161.05	162.55	161.80	0.75
Nigrini et al., 2006	T *Lamptonium fab. chaunothorax*			1220B-11H-CC	1220C-11H-3, 10–12	158.25	161.95	160.10	157.36	161.05	159.21	1.85
Nigrini et al., 2006	T *Theocorys anaclasta*			1220B-11H-CC	1220C-11H-3, 10–12	158.25	161.95	160.10	157.36	161.05	159.21	1.85
Nigrini et al., 2006	T *Lamptonium fab. constrictum*			1220B-11H-CC	1220C-11H-3, 10–12	158.25	161.95	160.10	157.36	161.05	159.21	1.85
Nigrini et al., 2006	T *Lamptonium fab. fabaeforme*			1220C-11H-3, 10–12	1220C-11H-4, 10–12	161.95	163.45	162.70	161.05	162.55	161.80	0.75
Nigrini et al., 2006	T *Thyrsocyrtis* (*T.*) *hirsuta*			1220C-11H-4, 10–12	1220C-11H-5, 57-59	163.45	167.82	165.64	162.55	164.52	163.54	0.98
Nigrini et al., 2006	T *Calocycloma castum*			1220B-12H-CC	1220B-13H-1, 45–47	168.99	169.16	169.08	168.10	168.27	168.19	0.09
Nigrini et al., 2006	B *Thyrsocyrtis* (*P.*) *triacantha*			1220B-12H-CC	1220B-13H-1, 45–47	168.99	169.16	169.08	168.10	168.27	168.19	0.09
Nigrini et al., 2006	B *Rhopalocanium ornatum*			1220B-12H-CC	1220B-13H-1, 45–47	168.99	169.16	169.08	168.10	168.27	168.19	0.09
Nigrini et al., 2006	B *Eusyringium lagena*			1220B-12H-CC	1220B-13H-1, 45–47	168.99	169.16	169.08	168.10	168.27	168.19	0.09
Nigrini et al., 2006	T *Buryella clinata*	RP11		1220B-13H-1, 45–47	1220B-13H-CC	169.16	177.87	173.52	168.27	176.98	172.63	4.35
Nigrini et al., 2006	T *Phormocyrtis striata striata*			1220B-13H-1, 45–47	1220B-13H-CC	169.16	177.87	173.52	168.27	176.98	172.63	4.35
Nigrini et al., 2006	T *Amphicraspedum murrayanum*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	T *Dendrospyris fragoides*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	B *Dictyophimus craticula*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	B *Dictyoprora mongolfieri*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	T *Diploplegma somphum*	RP11–RP8		1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	T *Giraffospyris lata*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	B *Lamptonium fab. constrictum*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	T *Lamptonium pennatum*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47

Table T38 (continued).

Source	Event	Zone	Age* (Ma)	Hole, core, section, interval (cm)		Depth from Pälike et al. (2005) (rmcd)			Depth adjusted (rmcd)			Error (±) (m)
				Top	Bottom	Top	Bottom	Mean	Top	Bottom	Mean	
Nigrini et al., 2006	T *Lamptonium sanfilippoae*	RP11–RP8		1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	B *Zealithapium plegmacantha*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	T *Lithochytris archaea*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	B *Lithochytris vespertilio*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	B *Lithocyclia ocellus* gr.			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	B *Lophocyrtis biaurita*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	T *Lychnocanoma auxilla*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	B *Periphaena tripyramis triangula*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	T *Phormocyrtis cubensis*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	T *Phormocyrtis striata exquisita*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	B *Podocyrtis* (L.) *sinuosa*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	B *Podocyrtis* (P.) *diamesa*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	T *Pterocodon tenellus*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	B *Spongatractus pachystylus*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	B *Theocorys anaclasta*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	B *Theocotyle conica*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	B *Theocotyle cryptocephala*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	*Theocotyle nigriniae* > *Theocotyle cryptocephala*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	T *Theocotyle nigriniae*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	B *Theocotyle venezuelensis*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	T *Theocotylissa alpha*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	T *Theocotylissa fimbria*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	B *Thyrsocyrtis* (T.) *rhizodon*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	B *Thyrsocyrtis* (T.) *robusta*			1220B-13H-CC	1220B-16X-1, 100–102	177.87	188.81	183.34	176.98	187.92	182.45	5.47
Nigrini et al., 2006	T *Buryella tetradica*			1220B-16X-1, 100–102	1220B-16X-2, 12–14	188.81	189.43	189.12	187.92	188.54	188.23	0.31
Nigrini et al., 2006	T *Lychnocanoma pileus*	RP8		1220B-16X-1, 100–102	1220B-16X-2, 12–14	188.81	189.43	189.12	187.92	188.54	188.23	0.31
Nigrini et al., 2006	B *Periphaena delta*			1220B-16X-2, 12–14	1220B-16X-3, 45–47	189.43	191.26	190.35	188.54	190.37	189.46	0.92
Nigrini et al., 2006	*Theocotylissa alpha* > *Theocotylissa ficus*			1220B-16X-3, 45–47	1220B-16X-4, 46–48	191.26	192.77	192.02	190.37	191.88	191.13	0.75
Nigrini et al., 2006	B *Lamptonium sanfilippoae*			1220B-16X-4, 46–48	1220C-14X-4, 60–62	192.77	194.75	193.76	191.88	196.82	194.35	2.47
Nigrini et al., 2006	B *Spongatractus balbis*			1220B-16X-4, 46–48	1220C-14X-4, 60–62	192.77	194.75	193.76	191.88	196.82	194.35	2.47
Nigrini et al., 2006	B *Thyrsocyrtis* (*P.*) *tensa*			1220B-16X-6, 46–48	1220B-16X-7, 15–17	195.77	196.96	196.37	194.88	196.07	195.48	0.59
Nigrini et al., 2006	T *Pterocodon anteclinata*			1220B-16X-7, 15–17	1220B-16X-CC	196.96	197.45	197.21	196.07	196.56	196.32	0.25
Nigrini et al., 2006	B *Lychnocanoma babylonis*			1220B-16X-CC	1220C-14X-6, 60–62	197.45	197.75	197.60	196.56	196.85	196.71	0.14
Nigrini et al., 2006	B *Theocotylissa ficus*			1220C-14X-6, 60–62	1220B-18X-2, 10–12	197.75	208.21	202.98	196.85	207.32	202.09	5.24
Nigrini et al., 2006	B *Anthocyrtoma* spp.			1220C-14X-6, 60–62	1220B-18X-2, 10–12	197.75	208.21	202.98	196.85	207.32	202.09	5.24
Nigrini et al., 2006	T *Phormocyrtis turgida*			1220C-14X-6, 60–62	1220B-18X-2, 10–12	197.75	208.21	202.98	196.85	207.32	202.09	5.24
Nigrini et al., 2006	T *Pterocodon ampla*			1220C-14X-6, 60–62	1220B-18X-2, 10–12	197.75	208.21	202.98	196.85	207.32	202.09	5.24
Nigrini et al., 2006	B *Phormocyrtis striata striata*			1220C-14X-6, 60–62	1220B-18X-2, 10–12	197.75	208.21	202.98	196.85	207.32	202.09	5.24
Nigrini et al., 2006	B *Theocotylissa fimbria*			1220C-14X-6, 60–62	1220B-18X-2, 10–12	197.75	208.21	202.98	196.85	207.32	202.09	5.24
Nigrini et al., 2006	*Pterocodon anteclinata* > *Buryella clinata*			1220C-14X-6, 60–62	1220B-18X-2, 10–12	197.75	208.21	202.98	196.85	207.32	202.09	5.24
Nigrini et al., 2006	B *Buryella clinata*	RP7		1220C-14X-6, 60–62	1220B-18X-2, 10–12	197.75	208.21	202.98	196.85	207.32	202.09	5.24

* = Nigrini et al. (2006). T = top, B = bottom.

Table T39. Site U1331 calcareous nannofossil datums.

Source	Event	Age* (Ma)	Core, section, interval (cm) Top	Core, section, interval (cm) Bottom	Depth (mbsf [m CSF-A]) Top	Depth (mbsf [m CSF-A]) Bottom	Depth (rmcd [adjusted m revised CCSF-A]) Top	Depth (rmcd [adjusted m revised CCSF-A]) Bottom	Depth (rmcd [adjusted m revised CCSF-A]) Mean	Error (±) (m)	Depth Site 1220 (rmcd) Top	Depth Site 1220 (rmcd) Bottom	Depth Site 1220 (rmcd) Mean	Error (±) (m)
			320-U1331A-	320-U1331A-										
Ship	B *Sphenolithus distentus*	30.00	2H-4, 70	2H-5, 70	10.40	11.90	11.90	13.40	12.65	0.75		55.22		
Ship	T *Reticulofenestra umbilicus*	32.00	3H-5, 110	3H-6, 110	21.80	23.30	24.71	26.22	25.47	0.75	71.55	72.98	72.26	0.71
Ship	T *Coccolithus formosus*	32.90	3H-6, 110	3H-CC	23.30	24.34	26.22	27.29	26.76	0.53	72.98	74.53	73.75	0.78
Ship	T *Discoaster saipanensis*	34.40	4H-1, 110	4H-7, 10	25.30	33.30	28.56	36.56	32.56	4.00	76.35	86.81	81.58	5.23
Ship	T *Chiasmolithus grandis*	37.10	6H-5, 70	6H-7, 9	49.90	51.79	57.06	59.08	58.07	1.01	103.26	104.53	103.89	0.63
Ship	B *Dictyococcites bisectus*	38.00	6H-CC	7H-1, 30	52.60	53.00	59.87	62.81	61.34	1.47	105.04	106.95	106.00	0.96
Ship	T *Chiasmolithus solitus*	40.40	7H-2, 30	8H-6, 50	54.50	70.20	64.31	80.97	72.64	8.33	107.93	117.76	112.84	4.92
Ship	B *Reticulofenestra umbilicus* >14 µm	42.50	11H-4, 30	11H-5, 30	94.68	96.18	107.90	109.40	108.65	0.75	128.74	129.29	129.01	0.28
Ship	T *Nannotetrina fulgens*	43.40	13H-2, 5	13H-5, 70	111.25	116.40	129.12	134.37	131.75	2.63	137.94	140.32	139.13	1.19
			320-U1331C-	320-U1331C-										
Ship	T *Tribrachiatus orthostylus*	50.70	17H-3, 100	17H-3, 109	188.00	188.09	210.75	210.84	210.80	0.05				

* = Expedition 320/321 Scientists (2010a). T = top, B = bottom.

Table T40. Site U1332 calcareous nannofossil datums.

Source	Event	Age* (Ma)	Core, section, interval (cm) Top	Core, section, interval (cm) Bottom	Depth (mbsf [m CSF-A]) Top	Depth (mbsf [m CSF-A]) Bottom	Depth (rmcd [adjusted m revised CCSF-A]) Top	Depth (rmcd [adjusted m revised CCSF-A]) Bottom	Depth (rmcd [adjusted m revised CCSF-A]) Mean	Error (±) (m)	Depth Site 1220 (rmcd) Top	Depth Site 1220 (rmcd) Bottom	Depth Site 1220 (rmcd) Mean	Error (±) (m)
			320-U1332A-	320-U1332A-										
Ship	T *Triquetrorhabdulus carinatus*	18.28	3H-4, 100	3H-5, 100	18.90	20.40	19.55	20.95	20.25	0.70	25.72	26.98	26.35	0.63
Ship	T *Sphenolithus delphix*	23.11	3H-7, 60	3H-CC	23.00	23.51	23.14	23.52	23.33	0.19	28.99	29.38	29.19	0.20
Ship	B *Sphenolithus delphix*	23.21	3H-CC	4H-2, 60	23.51	23.50	23.52	26.05	24.79	1.27	29.38	31.46	30.42	1.04
Ship	X *Triquetrorhabdulus longus/ Triquetrorhabdulus carinatus*	24.70	4H-2, 60	4H-3, 60	25.00	26.50	27.55	29.05	28.30	0.75	33.19	34.87	34.03	0.84
Ship	T ac *Coccolithus abisectus*	25.50	4H-2, 60	4H-3, 60	25.00	26.50	27.55	29.05	28.30	0.75	33.19	34.87	34.03	0.84
Ship	T *Sphenolithus predistentus*	26.90	4H-CC	5H-1, 80	32.95	33.20	35.72	37.80	36.76	1.04	41.66	43.04	42.35	0.69
Ship	T *Sphenolithus pseudoradians*	29.10	5H-3, 80	5H-4, 80	36.20	37.70	41.30	42.80	42.05	0.75	46.07	47.61	46.84	0.77
Ship	B *Sphenolithus distentus*	30.00	6H-5, 70	6H-6, 70	48.60	50.10	54.10	55.60	54.85	0.75	57.76	58.89	58.33	0.56
Ship	T *Reticulofenestra umbilicus*	32.00	7H-6, 80	7H-7, 80	59.69	61.18	67.06	68.36	67.71	0.65	67.65	68.61	68.13	0.48
Ship	T *Coccolithus formosus*	32.90	8H-4, 50	8H-5, 50	65.90	67.40	73.39	74.71	74.05	0.66	73.26	74.44	73.85	0.59
Ship	T *Discoaster saipanensis*	34.40	9H-4, 110	10H-3, 80	76.00	83.70	78.63	87.45	83.04	4.41	77.86	89.04	83.45	5.59
Ship	T *Chiasmolithus grandis*	37.10	11H-5, 70	11H-6, 70	96.10	97.60	99.48	100.98	100.23	0.75	101.47	102.80	102.14	0.66
Ship	B *Dictyococcites bisectus*	38.00	11H-CC	12H-2, 100	98.52	101.40	101.90	107.62	104.76	2.86	103.56	108.55	106.05	2.50
Ship	T *Chiasmolithus solitus*	40.40	12H-2, 100	13H-1, 140	101.40	109.80	107.62	118.46	113.04	5.42	108.55	118.54	113.54	5.00
Ship	T *Nannotetrina* spp.	42.30	14H-5, 40	14H-6, 35	124.30	125.74	137.63	139.39	138.51	0.88	130.20	131.51	130.86	0.66
Ship	B *Reticulofenestra umbilicus* > 14 µm	42.50	14H-CC	15X-1, 113	126.28	127.03	139.96	140.53	140.25	0.28	131.96	132.40	132.18	0.22
Ship	T *Nannotetrina fulgens*	43.40	15X-2, 137	15X-3, 66	128.77	129.56	142.27	143.06	142.67	0.39				
Ship	B *Nannotetrina fulgens*	46.80	16X-2, 39	16X-CC	137.39	138.20	150.89	151.70	151.30	0.41				
			320-U1332B-	320-U1332B-										
Ship	T *Discoaster lodoensis*	48.40	17X-CC	18X-2, 48	135.06	145.88	153.14	161.78	157.46	4.32				

* = Expedition 320/321 Scientists (2010a). T = top, B = bottom, X = crossover, ac = acme.

Table T41. Site U1333 calcareous nannofossil datums.

Source	Event	Age* (Ma)	Core, section, interval (cm) Top	Core, section, interval (cm) Bottom	Depth (mbsf [m CSF-A]) Top	Depth (mbsf [m CSF-A]) Bottom	Depth (rmcd [adjusted m revised CCSF-A]) Top	Depth (rmcd [adjusted m revised CCSF-A]) Bottom	Depth (rmcd [adjusted m revised CCSF-A]) Mean	Error (±) (m)	Depth Site 1218 (corrected rmcd) Top	Depth Site 1218 (corrected rmcd) Bottom	Depth Site 1218 (corrected rmcd) Mean	Error (±) (m)
			320-U1333A-	320-U1333A-										
Ship	B *Sphenolithus disbelemnos*	22.76	2H-5, 70	2H-6, 70	16.20	17.70	19.68	21.18	20.43	0.75	89.99	93.96	91.98	1.98
Ship	T *Sphenolithus delphix*	23.11	2H-7, 70	2H-CC	19.20	19.57	22.68	23.05	22.86	0.19	94.28	96.02	95.15	0.87
Ship	B *Sphenolithus delphix*	23.21	2H-CC	3H-1, 70	19.57	19.70	23.05	26.54	24.79	1.75	94.92	104.61	99.76	4.85
Ship	T *Sphenolithus ciperoensis*	24.40	4H-5, 70	4H-6, 70	35.20	36.70	42.08	43.18	42.63	0.55	129.53	131.21	130.37	0.84
Ship	X *Triquetrorhabdulus longus*/ *Triquetrorhabdulus carinatus*	24.70	3H-CC	4H-1, 70	28.87	29.20	35.38	37.16	36.27	0.89	116.18	122.68	119.43	3.25
Ship	T ac *Coccolithus abisectus*	25.50	3H-5, 70	3H-6, 70	25.70	27.20	32.19	33.62	32.91	0.72	110.15	116.01	113.08	2.93
Ship	T *Sphenolithus distentus*	26.80	5H-2, 70	5H-3, 70	40.20	41.70	49.94	51.36	50.65	0.71	139.78	143.81	141.80	2.02
Ship	T *Sphenolithus predistentus*	26.90	5H-3, 70	5H-4, 70	41.70	43.20	51.36	52.80	52.08	0.72	141.95	147.14	144.55	2.59
Ship	B *Sphenolithus ciperoensis*	27.10	5H-4, 70	5H-6, 70	43.20	46.20	52.80	55.72	54.26	1.46	144.22	152.12	148.17	3.95
Ship	T *Sphenolithus pseudoradians*	29.10	6H-4, 70	6H-6, 70	52.70	55.70	64.45	67.45	65.95	1.50	158.80	167.87	163.34	4.54
Ship	B *Sphenolithus distentus*	30.00	9H-3, 50	9H-4, 50	79.50	81.00	97.23	98.73	97.98	0.75	196.70	199.30	198.00	1.30
Ship	T *Reticulofenestra umbilicus*	32.00	11X-4, 70	11X-CC	100.20	101.17	120.92	121.89	121.41	0.48	223.87	225.02	224.44	0.57
Ship	T *Coccolithus formosus*	32.90	12X-3, 70	12X-4, 70	104.40	105.90	126.16	127.92	127.04	0.88	229.43	235.29	232.36	2.93
Ship	T *Discoaster saipanensis*	34.40	13X-3, 70	13X-3, 140	114.00	114.70	137.06	137.90	137.48	0.42	243.52	246.36	244.94	1.42
Ship	T *Chiasmolithus grandis*	37.10	14X-6, 70	14X-CC	128.20	129.80	151.89	153.80	152.85	0.96	258.26	261.05	259.66	1.40
Ship	B *Dictyococcites bisectus*	38.00	15X-5, 70	15X-6, 70	136.30	137.80	163.38	165.25	164.32	0.94	267.44	270.64	269.04	1.60
Ship	T *Chiasmolithus solitus*	40.40	16X-4, 40	16X-5, 40	144.10	145.60	171.71	173.78	172.75	1.04	274.37	281.28	277.82	3.45
Ship	T *Nannotetrina* spp.	42.30	17X-6,110	17X-CC	157.40	158.46	185.82	186.78	186.30	0.48				
Ship	B *Reticulofenestra umbilicus* > 14 µm	42.50	18X-1, 60	18X-2, 34	159.00	160.24	185.90	187.14	186.52	0.62				
Ship	T *Nannotetrina fulgens*	43.40	18X-4, 88	18X-CC	163.12	163.86	190.02	190.76	190.39	0.37				
Ship	B *Nannotetrina fulgens*	46.80	20X-1, 73	20X-2, 50	178.33	179.60	204.08	205.35	204.72	0.63				
Ship	B *Sphenolithus furcatolithoides*	45.80	20X-2, 50	20X-CC	179.60	180.12	205.35	205.87	205.61	0.26				
Ship	B *Nannotetrina* spp.	48.00	20X-2, 50	20X-CC	179.60	180.12	205.35	205.87	205.61	0.26				
			320-U1333B-	320-U1333B-										
Ship	B *Sphenolithus furcatolithoides*	45.80	20X-1, 46	20X-2, 86	172.76	174.66	198.76	200.66	199.71	0.95				
Ship	B *Nannotetrina* spp.	48.00	20X-3, 102	20X-4, 37	176.32	177.17	202.32	203.17	202.75	0.42				

* = Expedition 320/321 Scientists (2010a). T = top, B = bottom, X = crossover, ac = acme.

Table T42. Site U1334 calcareous nannofossil datums.

Source	Event	Age* (Ma)	Core, section, interval (cm) Top	Core, section, interval (cm) Bottom	Depth (mbsf [m CSF-A]) Top	Depth (mbsf [m CSF-A]) Bottom	Depth (rmcd [adjusted m revised CCSF-A]) Top	Depth (rmcd [adjusted m revised CCSF-A]) Bottom	Depth (rmcd [adjusted m revised CCSF-A]) Mean	Error (±) (m)	Depth Site 1218 (corrected rmcd) Top	Depth Site 1218 (corrected rmcd) Bottom	Depth Site 1218 (corrected rmcd) Mean	Error (±) (m)
			320-U1334A-	320-U1334A-										
Ship	*Coronocyclus nitescens* present	>12.12		2H-6, 120		16.90*		17.77	17.77			39.93		
Ship	*Calcidiscus premacintyrei* present	>12.45		2H-6, 120		16.90*		17.77	17.77			39.93		
Ship	T ac *Cyclicargolithus floridanus*	13.33	3H-2, 15	3H-3, 50	19.35	21.20	21.32	23.17	22.25	0.93	42.10	43.28	42.69	0.59
Ship	T *Sphenolithus heteromorphus*	13.53	3H-4, 50	3H-5, 50	22.70	24.20	24.67	26.17	25.42	0.75	43.96	44.70	44.33	0.37
Ship	B *Discoaster petaliformis*	15.70	3H-CC	4H-2, 70	27.65	29.40	29.62	33.05	31.34	1.72	46.64	48.50	47.57	0.93
Ship	T *Discoaster deflandrei*	15.80	3H-CC	4H-2, 70	27.65	29.40	29.62	33.05	31.34	1.72	46.64	48.50	47.57	0.93
Ship	B *Sphenolithus heteromorphus*	17.71	4H-6, 20	4H-7, 15	34.90	36.35	38.38	39.81	39.09	0.71	52.19	53.40	52.80	0.61
Ship	T *Triquetrorhabdulus carinatus*	18.28	5H-3, 100	5H-4, 120	40.70	42.40	45.56	47.17	46.37	0.80	57.89	58.97	58.43	0.54
Ship	T ac *Triquetrorhabdulus carinatus*	22.09	9H-3, 20	9H-4, 100	77.90	80.20	89.12	91.42	90.27	1.15	86.34	87.70	87.02	0.68
Ship	B *Sphenolithus disbelemnos*	22.80	9H-7, 30	9H-CC	84.00	84.74	94.97	95.61	95.29	0.32	90.14	90.64	90.39	0.25
Ship	T *Sphenolithus delphix*	23.11	10H-7, 30	10H-CC	93.50	93.95	104.65	104.97	104.81	0.16	96.72	96.95	96.84	0.12
Ship	B *Sphenolithus delphix*	23.21	11H-1, 20	11H-2, 20	94.70	96.20	107.53	109.09	108.31	0.78	98.75	99.94	99.35	0.59
Ship	T *Sphenolithus ciperoensis*	24.40	12H-7, 30	12H-CC	112.27	112.58	126.42	126.73	126.58	0.16	112.16	112.40	112.28	0.12
Revised	X *Triquetrorhabdulus longus*/ *Triquetrorhabdulus carinatus*	24.70	12H-7, 30	12H-CC	112.27	112.58	126.42	126.73	126.58	0.16	112.16	112.40	112.28	0.12
Ship	T ac *Cyclicargolithus abisectus*	25.50	12H-CC	13H-1, 45	112.58	113.15	126.73	128.63	127.68	0.95	112.40	113.95	113.17	0.77
Ship	T *Sphenolithus distentus*	26.80	16H-6, 40	16H-CC	149.10	149.57	169.92	170.39	170.16	0.23	145.97	146.31	146.14	0.17
Ship	T *Sphenolithus predistentus*	26.90	16H-6, 40	16H-CC	149.10	149.57	169.92	170.39	170.16	0.23	145.97	146.31	146.14	0.17
Ship	B *Sphenolithus ciperoensis*	27.10	18H-CC	19H-CC	170.17	178.49	194.27	204.91	199.59	5.32	164.26	172.06	168.16	3.90
Ship	T *Sphenolithus pseudoradians*	29.10	19H-CC	20H-CC	178.49	188.63	204.91	229.09	217.00	12.09	172.06	189.61	180.84	8.78
Ship	B *Sphenolithus distentus*	30.00	21H-CC	22H-2, 70	198.48	200.40	239.72	242.86	241.29	1.57	196.30	198.16	197.23	0.93
Ship	T *Reticulofenestra umbilicus*	32.00	24X-CC	25X-1, 80	224.22	224.90	271.90	274.19	273.05	1.15	219.99	222.00	220.99	1.00
Revised	T *Ismolithus recurvus*	32.50	26X-6, 100	26X-CC	242.10	243.36	291.74	293.00	292.37	0.63	235.25	236.37	235.81	0.56
Ship	T *Coccolithus formosus*	32.90	26X-2, 100	26X-3, 100	236.10	237.60	285.87	287.24	286.55	0.69	230.88	231.89	231.39	0.50
Ship	T *Discoaster saipanensis*	34.40	27X-5, 150	27X-CC	249.70	250.76	300.80	301.86	301.33	0.53	242.84	243.74	243.29	0.45
Revised	T *Reticulofenestra reticulata*	35.20	27X-CC	28X-CC	250.76	262.62	301.86	315.88	308.87	7.01	243.74	251.88	247.81	4.07
Ship	B *Ismolithus recurvus*	36.60	29X-CC	30X-1, 66	272.00	272.76	326.42	327.70	327.06	0.64	257.81	258.36	258.09	0.28
Revised	T *Chiasmolithus oamaruensis*	37.00	29X-8, 36	29X-CC	271.44	272.00	325.86	326.42	326.14	0.28	257.54	257.81	257.68	0.14
Ship	T *Chiasmolithus grandis*	37.10	30X-1, 66	30X-2, 74	272.76	274.34	327.70	329.50	328.60	0.90	258.36	259.12	258.74	0.38
Ship	*Dictyococcites bisectus* present	<38.0		32X-CC		285.21*		340.99	340.99					

* = Expedition 320/321 Scientists (2010a). T = top, B = bottom, X = crossover, ac = acme.

Table T43. Site 1218 calcareous nannofossil datums.

Source	Event	Age* (Ma)	Core, section, interval (cm)		Depth (mbsf)		Depth adjusted (corrected rmcd)			Error (±) (m)
			Top	Bottom	Top	Bottom	Top	Bottom	Mean	
			199-1218A-	199-1218A-						
Pälike et al., 2005	B *Catinaster coalitus*	10.89	4H-7, 50	4H- CC	36.70	37.08	40.90	41.18	41.04	0.14
Pälike et al., 2005	T *Sphenolithus heteromorphus*	13.53	5H-7, 15	5H- CC	45.85	46.40	50.65	51.20	50.93	0.28
Pälike et al., 2005	T ac *Discoaster deflandrei*	15.80	5H-7, 15	5H- CC	45.85	46.40	50.65	51.20	50.93	0.28
Pälike et al., 2005	T *Triquetrorhabdulus carinatus*	18.28	6H CC	7H-1, 120	55.32	56.90	62.35	64.91	63.63	1.28
Pälike et al., 2005	T ac *Triquetrorhabdulus carinatus*	22.09	9H-2, 80	9H-2, 130	77.00	77.50	87.26	87.76	87.51	0.25
Pälike et al., 2005	B *Sphenolithus disbelemnos*	22.80	9H-4, 80	9H-4, 130	80.00	80.50	90.26	90.76	90.51	0.25
Pälike et al., 2005	T *Sphenolithus delphix*	23.10	10H-1, 140	10H-2, 10	85.60	85.80	97.44	97.65	97.55	0.11
Pälike et al., 2005	B *Sphenolithus delphix*	23.20	10H-3, 120	10H-3, 140	88.40	88.60	100.30	100.50	100.40	0.10
Pälike et al., 2005	T *Sphenolithus ciperoensis*	24.40	11H-2, 130	11H-3, 130	96.50	98.00	109.85	111.27	110.56	0.71
Pälike et al., 2005	T ac *Cyclicargolithus abisectus*	25.50	11H-4, 130	11H-5, 38	99.50	100.08	112.90	113.48	113.19	0.29
Pälike et al., 2005	T *Sphenolithus distentus*	26.80	13H-3, 75	13H-4, 45	116.45	117.65	131.42	132.56	131.99	0.57
Pälike et al., 2005	B *Sphenolithus ciperoensis*	27.10	14H-5, 80	14H-6, 80	129.00	130.50	144.42	145.92	145.17	0.75
Pälike et al., 2005	B *Sphenolithus distentus*	30.00	18H-CC	19H-1, 120	169.54	170.90	190.10	191.28	190.69	0.59
Pälike et al., 2005	T *Reticulofenestra umbilicus* > 14 µm	32.00	22X-2, 70	22X-2, 147	198.10	198.87	221.03	221.80	221.42	0.39
Pälike et al., 2005	T *Coccolithus formosus*	32.90	23X-2, 148	23X-3, 35	208.48	208.85	231.12	231.49	231.31	0.19
Pälike et al., 2005	T *Discoaster saipanensis*	34.40	24X-4, 78	24X-4, 90	219.98	220.10	244.46	244.58	244.52	0.06
Pälike et al., 2005	T *Discoaster barbadiensis*	34.80	24X-5, 56	24X-5, 85	221.26	221.55	245.74	246.03	245.89	0.15
Pälike et al., 2005	T *Chiasmolithus grandis*	37.10	25X-7, 70	25X-CC	233.90	234.31	259.63	260.04	259.84	0.21
Pälike et al., 2005	B *Dictyococcites bisectus*	38.00	26X-5, 60	26X-6, 125	240.90	243.05	266.43	268.58	267.51	1.07
Pälike et al., 2005	T *Chiasmolithus solitus*	40.40	27X-CC	28X-1, 50	250.11	254.00	275.70	278.53	277.12	1.41
Pälike et al., 2005	T *Nannotetrina* spp.	42.30	30X-2, 90	30X-3, 2	273.10	273.72	296.73	297.35	297.04	0.31
			199-1218B-	199-1218B-						
Pälike et al., 2005	T *Cyclicargolithus floridanus*	13.33	5H-7, 45	5H- CC	41.85	42.42	47.75	48.38	48.07	0.32
Pälike et al., 2005	T *Sphenolithus delphix*	23.10	10H-4, 140	10H-5, 70	85.80	86.60	96.60	97.40	97.00	0.40
Pälike et al., 2005	B *Sphenolithus delphix*	23.20	10H-6, 70	10H6, 140	88.10	88.80	98.90	99.60	99.25	0.35
Pälike et al., 2005	T *Sphenolithus ciperoensis*	24.40	11H-5, 80	11H-6, 80	96.20	97.70	109.58	111.08	110.33	0.75
Pälike et al., 2005	T *Sphenolithus distentus*	26.80	13H-6, 100	13H-6, 130	116.90	117.20	132.39	132.69	132.54	0.15
Pälike et al., 2005	B *Sphenolithus ciperoensis*	27.10	15H-1, 100	15H-1, 120	128.40	128.60	146.22	146.42	146.32	0.10

* = Expedition 320/321 Scientists (2010a). T = top, B = bottom, ac = acme.

Table T44. Site 1219 calcareous nannofossil datums.

Source	Event	Age* (Ma)	Core, section, interval (cm) Top	Core, section, interval (cm) Bottom	Depth (mbsf) Top	Depth (mbsf) Bottom	Depth from Pälike et al. (2005) (rmcd) Top	Depth from Pälike et al. (2005) (rmcd) Bottom	Depth from Pälike et al. (2005) (rmcd) Mean	Error (±) (m)	Depth Site 1218 (corrected rmcd) Top	Depth Site 1218 (corrected rmcd) Bottom	Depth Site 1218 (corrected rmcd) Mean	Error (±) (m)
			199-1219A-	199-1219A-										
Pälike et al., 2005	T *Cyclicargolithus floridanus*	13.33	3H-3, 92	3H-3, 138	19.42	19.88	19.48	19.93	19.71	0.23	46.11	46.66	46.38	0.27
Pälike et al., 2005	T *Sphenolithus heteromorphus*	13.53	3H-3, 138	3H-4, 145	19.88	21.45	19.93	21.48	20.71	0.78	46.66	48.34	47.50	0.84
Pälike et al., 2005	T ac *Discoaster deflandrei*	15.80	3H-5, 25	3H-6, 26	21.75	23.62	21.77	23.64	22.71	0.94	48.71	51.62	50.17	1.45
Pälike et al., 2005	T *Triquetrorhabdulus carinatus*	18.28	4H-4, 92	4H-4, 140	30.42	30.90	31.30	31.78	31.54	0.24	62.31	63.48	62.89	0.59
Pälike et al., 2005	T ac *Triquetrorhabdulus carinatus*	22.09	5H-CC	6H-1, 90	44.47	44.90	46.76	48.91	47.84	1.08	86.17	89.07	87.62	1.45
Pälike et al., 2005	B *Sphenolithus disbelemnos*	22.76	6H-2, 40	6H-2, 105	45.90	46.55	50.08	50.71	50.40	0.32	90.50	91.47	90.98	0.49
Pälike et al., 2005	T *Sphenolithus delphix*	23.11	6H-5, 30	6H-5, 90	50.30	50.90	54.35	54.93	54.64	0.29	97.02	97.89	97.46	0.43
Pälike et al., 2005	B *Sphenolithus delphix*	23.21	6H-6, 120	6H-7, 20	52.70	53.20	56.60	56.99	56.80	0.20	100.56	101.50	101.03	0.47
Pälike et al., 2005	T *Sphenolithus ciperoensis*	24.40	7H-5, 10	7H-5, 80	59.44	60.14	61.45	62.20	61.83	0.38	110.35	111.48	110.91	0.57
Pälike et al., 2005	T ac *Cyclicargolithus abisectus*	25.50	7H-5, 80	7H-6, 90	60.14	61.74	62.20	64.00	63.10	0.90	111.48	116.07	113.77	2.29
Pälike et al., 2005	T *Sphenolithus distentus*	26.80	8H-3, 100	8H-4, 100	67.00	68.50	70.05	71.55	70.80	0.75	127.33	129.19	128.26	0.93
Pälike et al., 2005	B *Sphenolithus ciperoensis*	27.10	9H-2, 140	9H-3, 140	75.40	76.90	82.77	84.27	83.52	0.75	143.37	144.17	143.77	0.40
Pälike et al., 2005	T *Sphenolithus pseudoradians*	29.10	12H-5, 80	12H-6, 80	107.80	109.30	120.31	121.77	121.04	0.73	180.05	181.60	180.82	0.78
Pälike et al., 2005	B *Sphenolithus distentus*	30.00	13H-3, 80	13H-4, 80	113.86	115.36	133.45	134.95	134.20	0.75	194.43	196.11	195.27	0.84
Pälike et al., 2005	T *Reticulofenestra umbilicus* > 14 µm	32.00	15H-5, 140	15H-6, 10	136.90	137.10	159.75	159.95	159.85	0.10	222.82	223.12	222.97	0.15
Pälike et al., 2005	T *Coccolithus formosus*	32.90	16H-4, 140	16H-5, 140	144.96	146.51	169.29	170.84	170.07	0.78	232.72	235.08	233.90	1.18
Pälike et al., 2005	T *Discoaster saipanensis*	34.40	17H-2, 90	19H-7, 5	150.90	176.55	176.23	203.88	190.06	13.83	242.63	266.70	254.66	12.03
Pälike et al., 2005	T *Discoaster barbadiensis*	34.80	17H-2, 90	19H-7, 5	150.90	176.55	176.23	203.88	190.06	13.83	242.63	266.70	254.66	12.03
Pälike et al., 2005	T *Chiasmolithus grandis*	37.10	17H-2, 90	20H-1, 114	150.90	178.14	176.23	206.47	191.35	15.12	242.63	269.35	255.99	13.36
Pälike et al., 2005	B *Dictyococcites bisectus*	38.00	20H-2, 52	21H-3, 80	179.02	190.30	207.35	219.63	213.49	6.14	270.14	282.02	276.08	5.94
Pälike et al., 2005	B *Reticulofenestra umbilicus* > 14 µm	42.50	22H-3, 49	22H-3, 125	199.49	200.25	229.82	230.58	230.20	0.38				
Pälike et al., 2005	*Nannotetrina* spp. present	>42.3	22H-CC	24H-1, 36	205.84	215.36	236.17	247.69	241.93	5.76				
Pälike et al., 2005	T *Fasciculithus tympaniformis*	54.70	26X-3, 52	27X-CC	237.62	244.92	271.95	280.25	276.10	4.15				
			199-1219B-	199-1219B-										
Pälike et al., 2005	T *Sphenolithus delphix*	23.11	4H-CC	5H-1, 30	48.75	49.80	52.86	54.70	53.78	0.92	94.57	97.55	96.06	1.49
Pälike et al., 2005	B *Sphenolithus delphix*	23.21	5H-2, 80	5H-2, 90	51.80	51.90	56.70	56.80	56.75	0.05	100.76	101.01	100.89	0.13
Pälike et al., 2005	T *Sphenolithus ciperoensis*	24.40	5H-CC	6H-1, 60	58.79	59.60	63.81	64.14	63.98	0.16	115.66	116.37	116.01	0.35
Pälike et al., 2005	T *Sphenolithus pseudoradians*	29.10	11H-3, 85	11H-3, 120	110.35	110.70	121.78	122.11	121.95	0.16	181.61	181.96	181.79	0.18
Pälike et al., 2005	T *Reticulofenestra umbilicus* > 14 µm	32.00	14H-7, 40	14H-7, 70	144.40	144.70	161.69	161.99	161.84	0.15	225.65	225.94	225.79	0.15
Pälike et al., 2005	T *Coccolithus formosus*	32.90	15H-5, 76	15H-5, 104	150.82	151.10	170.17	170.45	170.31	0.14	233.77	234.31	234.04	0.27

* = Expedition 320/321 Scientists (2010a). T = top, B = bottom, ac = acme.

Table T45. Site 1220 calcareous nannofossil datums.

Source	Event	Age* (Ma)	Core, section, interval (cm)		Depth (mbsf)		Depth (rmcd)			Error (±) (m)
			Top	Bottom	Top	Bottom	Top	Bottom	Mean	
			199-1220A-	199-1220A-						
Lyle et al., 2002	T ac *Triquetrorhabdulus carinatus*	22.90	3H-5, 60	3H-6, 40	25.05	26.35	25.05	26.35	25.70	0.65
Lyle et al., 2002	B *Sphenolithus ciperoensis*	27.10	5H-1, 60	5H-1, 140	38.60	39.40	41.89	42.60	42.25	0.36
Lyle et al., 2002	T *Sphenolithus pseudoradians*	29.10	5H-4, 60	5H-5, 45	43.10	44.46	46.39	47.75	47.07	0.68
Lyle et al., 2002	B *Sphenolithus distentus*	30.00	6H-3, 100	6H-4, 80	51.50	52.80	56.84	58.14	57.49	0.65
Lyle et al., 2002	T *Reticulofenestra umbilicus* >14 µm	32.00	7H-4, 70	7H-4, 140	62.16	62.86	68.47	69.17	68.82	0.35
			199-1220B-	199-1220B-						
Lyle et al., 2002	B *Sphenolithus distentus*	30.40	3H-1, 60	3H-1, 90	53.60	53.90	57.16	57.44	57.30	0.14
Lyle et al., 2002	T *Coccolithus formosus*	32.90	4H-3, 60	4H-3, 100	68.10	68.50	73.42	73.82	73.62	0.20
Lyle et al., 2002	B *Tribrachiatus bramlettei*	53.90	19X-CC	20X-1, 20	193.73	197.61	211.55	215.43	213.49	1.94
Lyle et al., 2002	T *Fasciculithus* spp.	54.10	20X-1, 90	20X-1, 115	198.30	198.56	216.12	216.38	216.25	0.13
Lyle et al., 2002	B *Rhomboaster* spp.	54.10	20X-1, 125	20X-2, 1	198.65	198.91	216.47	216.73	216.60	0.13

* = Expedition 320/321 Scientists (2010a). T = top, B = bottom, ac = acme.