Figure F1. Shaded bathymetric map of the Arabian Sea showing the location of Site U1457 (from Pandey et al., 2016a). Site U1457 is located ~491 km west of the west coast of India, in the Laxmi Basin of the Arabian Sea. Yellow circles = sites drilled during Expedition 355. Red stars = earlier scientific drilling sites. Pink line = approximate extent of Indus Fan (after Kolla and Coumes, 1987). Yellow dashed lines with question marks = speculated locations of the continent/ocean boundary, depending on whether Laxmi Basin is floored by oceanic or continental crust. Gray lines with numbers = magnetic anomalies from Royer et al. (2002). Map from Pandey et al. (2016a).

Figure F2. Shipboard sampling splice from Site U1457 (see Figure F17 in the Site U1457 Chapter [Pandey et al., 2016b]). Data from Hole U1457A are in the bottom profile shown on CCSF depth, whereas data from Hole U1457B on CCSF depth are in the middle profile. The orange box highlights the suspect tie from the shipboard splice. A continuous sediment splice was made by matching stratigraphic markers between holes and joining data from each hole at the splice. The blue vertical line marks the bottom of each sediment section within the splice, with a yellow vertical line marking the equivalent stratigraphic interval in the other hole and top of the next interval in the splice. The magnetic susceptibility data (red) are overlain on core images that have been depth registered to the CCSF depth scale. The top profile shows the resulting splice data and core image. The stratigraphic match between Cores 355-U1457B-1H and 355-U1457A-1H is poor, and the tie was listed as suspect in Pandey et al. (2016b).

Figure F3. Revised Site U1457 sediment splice, showing the magnetic susceptibility data (red) and *G. ruber* $\delta^{18}O$ data (green; data are referenced to the Peedee belemnite [PDB] standard). Yellow lines mark the top of a splice interval, whereas blue lines mark the base. The change in the shipboard splice is outlined in the orange box. In the shipboard splice, the data from the top of Core 355-U1457A-1H overlapped with that of the base of Core 355-U1457B-1H. However, the $\delta^{18}O$ data are clearly offset in that interval by 1.4‰. The revised splice shown here now appends Core 355-U1457A-1H to the base of Core 355-U1457B-1H. Other ties are the same between the two holes.