

Figure F1. Bathymetry map with locations of IODP Sites U1432 and U1435 and ODP Site 1148 in the northern SCS (see the [Expedition 349 summary](#) chapter [Li et al., 2015a]).

Figure F2. Selected planktonic and benthic foraminifers, Hole U1435A. Scale bars = 100 μm (thick) or 50 μm (thin). 1, 2. *Globoquadrina venezuelana* (Hedberg) (5R-1, 10–14 cm; 36.10–36.14 mbsf. 3, 4. *Turborotalia ampliapertura* (Bolli); (3) 9R-1, 60–64 cm; 75.40–75.44 mbsf; (4) 5R-1, 70–74 cm; 36.70–36.74 mbsf. 5. *Turborotalia increbescens* (Bandy) (5R-1, 70–74 cm; 36.70–36.74 mbsf. 6. *Globoquadrina* sp. (5R-2, 10–14 cm; 37.60–37.64 mbsf). 7. *Globoquadrina* cf. *tripartita* (Koch) (5R-2, 10–14 cm; 37.60–37.64 mbsf. 8. *G. venezuelana* (Hedberg) (5R-2, 10–14 cm; 37.60–37.64 mbsf). 9. *Subbotina angiparoides* (Hornibrook) (5R-1, 70–74 cm; 36.70–36.74 mbsf). 10. *Globigerina praebulloides* Blow (9R-1, 60–64 cm; 75.40–75.44 mbsf). 11, 12. *Globigerina ciperoensis* Bolli; (11) 5R-1, 10–14 cm; 36.10–36.14 mbsf; (12) 5R-1, 70–74 cm; 36.70–36.74 mbsf. 13. *Globigerina* cf. *angulisuturalis* Bolli (9R-1, 60–64 cm; 75.40–75.44 mbsf). 14. *Paragloborotalia mayeri* (Cushman) (5R-2, 10–14 cm; 37.60–37.64 mbsf). 15. *Pseudohastigerina naguewichiensis* (Myatliuk) (9R-1, 60–64 cm; 75.40–75.44 mbsf). 16. *Tenuitella praegemma* (Li) (5R-2, 10–14 cm; 37.60–37.64 mbsf). 17–19. *Cassigerinella chipolensis* (Cushman and Ponton); (17, 18) 5R-1, 10–14 cm; 36.10–36.14 mbsf; (19) 9R-1, 60–64 cm; 75.40–75.44 mbsf. 20, 21. *Chiloguembelina cubensis* (Palmer) (5R-1, 10–14 cm; 36.10–36.14 mbsf). 22. *Chiloguembelina* cf. *ototara* (Finlay) (5R-2, 10–14 cm; 37.60–37.64 mbsf). 23, 24. *Cibicidoides praemundulus* (Berggren and Miller); (23) 5R-1, 10–14 cm; 36.10–36.14 mbsf; (24) 5R-2, 10–14 cm; 37.60–37.64 mbsf. 25. *Cibicidoides* sp. (5R-1, 10–14 cm; 36.10–36.14 mbsf). 26. *Cibicidoides* cf. *praemundulus* (Berggren and Miller) (9R-1, 60–64 cm; 75.40–75.44 mbsf). 27. *Hanzawaia ammophila* (Gümbel) (5R-1, 10–14 cm; 36.10–36.14 mbsf). 28. *Gyroidinoides girardanus* (Reuss) (9R-1, 60–64 cm; 75.40–75.44 mbsf). 29, 30. *Oridorsalis tener* (Brady); (29) 9R-1, 60–64 cm; 75.40–75.44 mbsf; (30) 5R-2, 10–14 cm; 37.60–37.64 mbsf. 31. *Epi-stominella* sp. (5R-2, 10–14 cm; 37.60–37.64 mbsf). 32, 33. *Cibicides* sp. (9R-1, 60–64 cm; 75.40–75.44 mbsf). 34. *Nonion affine* (Reuss) (9R-1, 60–64 cm; 75.40–75.44 mbsf). 35. *Bulimina mexicana* Cushman (9R-1, 60–64 cm; 75.40–75.44 mbsf).

Figure F3. Ranges of selected planktonic foraminifer species in Hole U1435A (see the [Site U1435](#) chapter [Li et al., 2015b]) with datums (age in red) used to define Zones P18 and P19 for Subunit IB. Shaded bars = projected ranges across coring gaps. Tc = top common occurrence.

Figure F4. Stable isotope variations of benthic (black squares) and planktonic (colored circles) foraminifers, Hole U1435A. PDB = Peedee belemnite.