

Table 15. Age and composite depth constraints of stratigraphically useful diatom datum levels, Leg 167.

| Event | Datum | BKFV85 (Ma) | CK95 (Ma) | Hole 1022A | | Hole 1021B | | Hole 1020C | | Hole 1020B | | Hole 1019C | |
|-------|-----------------------------------|----------------|--------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| | | | | Top (mcd) | Bottom (mcd) | Top (mcd) | Bottom (mcd) | Top (mcd) | Bottom (mcd) | Top (mcd) | Bottom (mcd) | Top (mcd) | Bottom (mcd) |
| * LO | <i>Proboscia curvirostris</i> | 0.3-0.35 | 0.30 | — | — | — | — | 46.12 | 56.62 | 38.38 | 48.96 | 38.92 | 49.39 |
| LO | <i>Rhizosolenia matuyamai</i> | 0.85-0.97 | 0.91-1.06 | — | — | — | — | — | — | — | — | — | — |
| FO | <i>Rhizosolenia matuyamai</i> | 0.91-1.05 | 0.99-1.14 | — | — | — | — | — | — | — | — | — | — |
| * LO | <i>Actinocyclus oculatus</i> | 0.93-1.33 | 1.01-1.46 | — | — | — | — | 135.68 | 147.51 | 136.68 | 146.28 | — | — |
| FO | <i>Proboscia curvirostris</i> | 1.5 | — | — | — | — | — | 135.68 | 147.51 | 146.28 | 155.78 | — | — |
| FO | <i>Fragilariopsis doliola</i> | 1.89-2.00 | 2 | — | — | — | — | 189.87 | 201.09 | 186.43 | 196.79 | — | — |
| * LO | <i>Neodenticula koizumii</i> | 1.9 | 2.0 | — | — | — | — | 189.87 | 201.09 | 186.43 | 196.79 | — | — |
| LO | <i>Thalassiosira convexa</i> | 2.3 | 2.35 | 33.11 | 42.59 | — | — | 222.21 | 232.35 | 239.33 | 255.67 | — | — |
| * LO | <i>Neodenticula kamschatica</i> | 2.50-2.58 | 2.61-2.68 | — | — | — | — | — | — | — | — | — | — |
| LCO | <i>Neodenticula kamschatica</i> | 2.50-2.58 | 2.61-2.68 | 85.47 | 94.54 | — | — | — | — | — | — | — | — |
| FO | <i>Neodenticula seminae</i> | 2.6 | 2.68 | (64.05) | (75.76) | — | — | — | — | — | — | — | — |
| * FO | <i>Neodenticula koizumii</i> | 3.6 | 3.53-3.95 | 146.92 | 156.70 | (81.05) | (92.71) | — | — | — | — | — | — |
| * FO | <i>Thalassiosira oestrupii</i> | 5.1 | 5.49 | — | — | (155.13) | (165.45) | — | — | — | — | — | — |
| LO | <i>Rouxia californica</i> | 5.2 | 5.9 | — | — | (190.81) | (200.41) | — | — | — | — | — | — |
| FCO | <i>Neodenticula kamschatica</i> | — | 6.4 | — | — | (155.13) | (165.45) | — | — | — | — | — | — |
| * LCO | <i>Rouxia californica</i> | 6.1 | 6.65 | — | — | (221.41) | (225.91) | — | — | — | — | — | — |
| LO | <i>Cavitatus jouseanus</i> | — | 6.7-6.8 | — | — | (221.41) | (225.91) | — | — | — | — | — | — |
| * LCO | <i>Thalassionema schraderi</i> | 6.7 | 7.6 | — | — | 229.41 | 231.11 | — | — | — | — | — | — |
| FCO | <i>Thalassionema schraderi</i> | 8.0 | 8.4 | — | — | 251.03 | 255.54 | — | — | — | — | — | — |
| LO | <i>Denticulopsis katayamae</i> | 7.6 | 8.5 | — | — | (258.21) | (259.83) | — | — | — | — | — | — |
| * LCO | <i>Denticulopsis simonsenii</i> | 8.0 | 8.6 | — | — | 251.03 | 255.54 | — | — | — | — | — | — |
| * LO | <i>Denticulopsis dimorpha</i> | 8.4 | 9.16 | — | — | 259.83 | 264.33 | — | — | — | — | — | — |
| FO | <i>Denticulopsis katayamae</i> | 8.7 | 9.26 | — | — | 267.81 | 269.56 | — | — | — | — | — | — |
| FO | <i>Thalassionema schraderi</i> | — | 9.5 | — | — | 277.51 | 279.07 | — | — | — | — | — | — |
| * FO | <i>Denticulopsis dimorpha</i> | 8.9 | 9.9 | — | — | 277.51 | 279.07 | — | — | — | — | — | — |
| * LCO | <i>Denticulopsis praedimorpha</i> | 10.4 | 11.5 | — | — | 302.91 | 306.31 | — | — | — | — | — | — |
| FO | <i>Hemidiscus cuneiformis</i> | 11.4 | — | — | — | — | — | — | — | — | — | — | — |
| LO | <i>Crucidenticula nicobarica</i> | 12.2 | 12.5 | — | — | 317.61 | 322.06 | — | — | — | — | — | — |
| * FO | <i>Denticulopsis praedimorpha</i> | 12.6 | 12.9 | — | — | — | — | — | — | — | — | — | — |
| * FCO | <i>Denticulopsis simonsenii</i> | 13.65 | 13.1 | — | — | — | — | — | — | — | — | — | — |
| * LCO | <i>Denticulopsis hyalina</i> | 13.65 | 13.1 | — | — | — | — | — | — | — | — | — | — |

Notes: Diatom events are calibrated to the time scales of Berggren et al. (1985b) and Cande and Kent (1995). BKFV85 = Berggren et al., 1985 time scale. CK95 = Cande and Kent, 1995 time scale. * = zonal boundaries. LO = last occurrence, FO = first occurrence, LCO = last common or consistent occurrence; FCO = first common or consistent occurrence. Data in parentheses represent uncertainty as to stratigraphic position. — = no data.

Table 15 (continued).

| Event | Datum | Hole 1018A | | Hole 1016A | | Hole 1014A | | Hole 1011B | | Hole 1010C | |
|-------|-----------------------------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| | | Top (mcd) | Bottom (mcd) | Top (mcd) | Bottom (mcd) | Top (mcd) | Bottom (mcd) | Top (mcd) | Bottom (mcd) | Top (mcd) | Bottom (mcd) |
| * LO | <i>Proboscia curvirostris</i> | 68.51 | 78.84 | 27.80 | 37.70 | — | — | — | — | — | — |
| LO | <i>Rhizosolenia matuyamai</i> | — | — | 37.7 | 48.12 | — | — | — | — | — | — |
| FO | <i>Rhizosolenia matuyamai</i> | — | — | 48.12 | 57.84 | — | — | — | — | — | — |
| * LO | <i>Actinocyclus oculatus</i> | 99.34 | 109.27 | (57.84) | (67.84) | 105.01 | 114.36 | — | — | — | — |
| FO | <i>Proboscia curvirostris</i> | 202.67 | 212.27 | — | — | — | — | — | — | — | — |
| FO | <i>Fragilariopsis doliola</i> | — | — | — | — | — | — | — | — | — | — |
| * LO | <i>Neodenticula koizumii</i> | 254.03 | 263.73 | (105.54) | (115.78) | — | — | — | — | — | — |
| LO | <i>Thalassiosira convexa</i> | 311.19 | 320.79 | — | — | (211.40) | (216.90) | — | — | — | — |
| * LO | <i>Neodenticula kamschatica</i> | 378.69 | 388.39 | — | — | (327.10) | (336.80) | — | — | — | — |
| LCO | <i>Neodenticula kamschatica</i> | 436.39 | 445.89 | — | — | — | — | — | — | — | — |
| FO | <i>Neodenticula seminae</i> | — | — | — | — | — | — | — | — | — | — |
| * FO | <i>Neodenticula koizumii</i> | — | — | — | — | — | — | — | — | — | — |
| * FO | <i>Thalassiosira oestrupii</i> | — | — | (297.90) | (307.60) | — | — | — | — | — | — |
| LO | <i>Rouxia californica</i> | — | — | — | — | — | — | — | — | — | — |
| FCO | <i>Neodenticula kamschatica</i> | — | — | — | — | — | — | — | — | — | — |
| * LCO | <i>Rouxia californica</i> | — | — | — | — | — | — | — | — | — | — |
| LO | <i>Cavitatus jouseanus</i> | — | — | — | — | — | — | — | — | — | — |
| * LCO | <i>Thalassionema schraderi</i> | — | — | — | — | — | — | 221.94 | 224.94 | 89.23 | 93.23 |
| FCO | <i>Thalassionema schraderi</i> | — | — | — | — | — | — | 247.64 | 250.84 | — | — |
| LO | <i>Denticulopsis katayamae</i> | — | — | — | — | — | — | 253.84 | 257.24 | 103.63 | 106.63 |
| * LCO | <i>Denticulopsis simonsenii</i> | — | — | — | — | — | — | 253.84 | 257.24 | 103.63 | 106.63 |
| * LO | <i>Denticulopsis dimorpha</i> | — | — | — | — | — | — | 273.05 | 276.54 | 109.93 | 114.21 |
| FO | <i>Denticulopsis katayamae</i> | — | — | — | — | — | — | — | — | 109.93 | 114.21 |
| FO | <i>Thalassionema schraderi</i> | — | — | — | — | — | — | — | — | — | — |
| * FO | <i>Denticulopsis dimorpha</i> | — | — | — | — | — | — | — | — | 114.21 | 117.21 |
| * LCO | <i>Denticulopsis praedimorpha</i> | — | — | — | — | — | — | — | — | 138.75 | 142.05 |
| FO | <i>Hemidiscus cuneiformis</i> | — | — | — | — | — | — | — | — | (128.28) | (131.57) |
| LO | <i>Crucidenticula nicobarica</i> | — | — | — | — | — | — | — | — | (166.97) | (170.26) |
| * FO | <i>Denticulopsis praedimorpha</i> | — | — | — | — | — | — | — | — | 170.26 | 174.47 |
| * FCO | <i>Denticulopsis simonsenii</i> | — | — | — | — | — | — | — | — | 190.65 | 194.98 |
| * LCO | <i>Denticulopsis hyalina</i> | — | — | — | — | — | — | — | — | 190.65 | 194.98 |