Supplementary file for: Nagy J., Jargvoll D., Dypvik H.,Jochmann M. & Riber L. 2013.Environmental changes during the Paleocene–Eocene Thermal Maximum in Spitsbergen as reflected by benthic foraminifera. *Polar Research 32*. Correspondence: Jenö Nagy, Department of Geosciences, University of Oslo, P.O. Box 1047, Blindern, NO-0316 Oslo, Norway. E-mail*:* [jeno.nagy@geo.uio.no](mailto:jeno.nagy@geo.uio.no).

Distribution of foraminiferal taxa in the Gilsonryggen Member (Frysjaoden Formation) of core BH9/05, shown as number of tests picked per sample and identified. See tables following two pages.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SAMPLE | DEPTH, METRE | *Anomalinoides* aff. *magnus* | *Cibicidoides* aff. *diuturnis* | *Nonion aff. insolitum* | *Reticulophragmium borealis* | *Reticulophragmium* sp. 1 | *Convallina* aff. *elongata* | *Labrospira turbida* | *Reticulophragmium arcticum* | *Verneuilinoides.* sp. 1 | *Verneuilinoides* aff. *durus* | *Convallina* aff. *logani* | *Trochammina* aff. *inornata* | *Thurammina* aff. *papillata* | *Nonionellina* aff. *ovata* | *Parrelloides walli* | *Recurvoides tununukensis* | *Birsteiniolla* sp. 1 | *Trochammina* sp.1 | *Lagenammina* sp.1 |
| 66 | 120.05 |  |  |  |  |  |  |  |  |  |  |  |  | 31 |  |  |  |  |  |  |
| 64 | 140.05 |  |  |  |  |  |  |  |  |  |  |  |  | 6 |  |  |  |  |  |  |
| 62 | 160.05 |  |  |  |  |  |  |  |  |  |  |  |  | 114 |  |  |  |  |  |  |
| 60 | 180.05 |  |  |  |  |  |  |  |  |  |  |  |  | 14 |  |  |  |  |  |  |
| 58 | 200.05 |  |  |  |  |  |  |  |  |  |  | 1 | 41 | 10 |  |  |  |  |  |  |
| 56 | 220.05 |  |  |  |  |  |  |  |  |  |  | 1 | 4 | 70 |  |  |  |  |  |  |
| 54 | 240.05 |  |  |  |  |  |  |  |  |  |  |  | 8 | 10 |  |  |  |  |  |  |
| 52 | 260.05 |  |  |  |  |  |  |  |  |  |  | 1 | 32 | 9 |  |  |  |  |  |  |
| 50 | 280.05 |  |  |  |  |  |  |  |  |  |  | 3 | 15 | 25 |  |  |  |  | 2 | 1 |
| 48 | 300.05 |  |  |  |  |  |  |  |  |  |  | 1 | 119 | 18 |  |  |  |  |  |  |
| 46 | 320.05 |  |  |  |  |  |  |  |  |  |  | 4 | 27 | 63 |  |  |  |  |  |  |
| 44 | 340.05 |  |  |  |  |  |  |  |  |  |  | 1 | 89 | 103 |  |  |  | 3 |  |  |
| 42 | 360.05 |  |  |  |  |  |  |  |  |  |  | 1 | 31 | 26 |  |  |  | 1 | 2 |  |
| 40 | 380.05 |  |  |  |  |  |  |  |  |  |  | 1 | 33 | 20 |  |  |  |  | 1 |  |
| 38 | 400.05 |  |  |  |  |  |  |  |  |  |  |  | 26 | 32 |  |  |  | 16 | 1 |  |
| 36 | 420.05 |  |  |  |  |  |  |  |  |  |  | 2 | 20 | 53 |  |  |  | 15 |  |  |
| 34 | 439.93 |  |  |  |  |  |  |  |  |  |  |  | 36 | 26 |  |  |  | 4 | 6 |  |
| 32 | 459.56 |  |  |  |  |  |  |  |  |  |  |  | 15 | 33 |  |  |  | 3 |  |  |
| 30 | 480.05 |  |  |  |  |  |  |  |  |  |  |  | 87 | 36 |  |  |  | 22 |  | 4 |
| 28 | 500.05 |  |  |  |  |  |  |  |  |  |  | 4 | 82 | 43 |  |  |  | 14 | 2 |  |
| 26 | 504.05 |  |  |  |  |  |  |  |  |  |  |  | 28 | 25 |  |  |  | 15 |  |  |
| 25 | 506.05 |  |  |  |  |  |  |  |  |  |  |  | 70 | 26 |  |  |  | 4 |  |  |
| 24 | 508.05 |  |  |  |  |  |  |  |  |  |  |  | 37 | 12 |  |  |  | 2 |  |  |
| 23 | 509.05 |  |  |  |  |  |  |  |  |  |  |  | 90 | 5 |  |  |  | 5 |  |  |
| 22 | 511.05 |  |  |  |  |  |  |  |  |  |  |  | 75 | 19 |  |  |  | 3 |  |  |
| 21 | 513.05 |  |  |  |  |  |  |  |  |  |  |  | 65 | 31 |  |  |  | 5 |  |  |
| 20 | 515.05 |  |  |  |  |  |  |  |  |  |  |  | 207 | 23 |  |  |  | 14 |  |  |
| 19 | 512.05 |  |  |  |  |  |  |  |  |  |  |  | 82 | 44 |  |  |  | 6 |  |  |
| 18 | 519.05 |  |  |  |  |  |  |  |  |  |  | 2 | 80 | 20 |  |  |  | 10 |  |  |
| 17 | 521.05 |  |  |  |  |  |  |  |  |  |  |  | 116 | 14 |  |  |  | 11 |  |  |
| 16 | 523.05 |  |  |  |  |  |  |  |  |  |  |  | 50 | 2 |  |  |  | 29 |  |  |
| 15 | 525.05 |  |  |  |  |  |  |  |  |  |  |  | 163 | 7 |  |  |  | 3 |  |  |
| 14 | 527.05 |  |  |  |  |  |  |  |  |  |  |  | 40 | 2 |  |  |  |  |  |  |
| 13 | 529.05 |  |  |  |  |  |  |  |  |  |  |  | 122 | 34 |  |  |  | 5 |  |  |
| 12 | 530.99 |  |  |  |  |  |  |  |  |  |  |  | 136 | 18 |  |  |  | 1 |  |  |
| 11 | 532.37 |  |  |  |  |  |  | 2 | 3 |  |  |  | 118 | 5 |  |  |  | 4 | 19 |  |
| 10 | 534.37 |  |  |  |  | 3 | 2 | 62 | 11 |  | 5 |  | 31 | 9 |  |  |  |  | 1 |  |
| 9 | 536.36 |  |  |  | 5 | 4 |  | 13 | 30 | 12 | 27 |  | 77 | 13 |  |  |  |  |  |  |
| 8 | 538.38 |  |  |  | 7 | 9 | 1 | 21 | 67 |  | 2 | 6 | 2 | 7 |  |  |  |  |  |  |
| 7 | 540.42 |  |  |  | 3 | 12 |  | 15 | 56 |  |  |  | 45 | 18 |  |  | 5 |  |  |  |
| 6 | 542.37 |  |  |  | 1 | 5 |  | 64 | 22 |  | 4 | 12 | 2 | 8 |  | 3 | 1 | 2 |  |  |
| 5 | 544.63 |  |  | 5 | 11 | 5 | 6 | 130 | 33 |  | 3 |  |  | 7 |  |  |  |  |  |  |
| 4 | 546.73 |  |  |  | 12 | 3 | 12 | 33 | 21 | 5 | 5 | 20 | 4 | 37 | 5 | 1 | 7 | 4 | 1 | 1 |
| 2 | 594.75 | 3 | 4 | 4 | 8 | 1 | 3 | 8 | 19 | 21 | 41 | 4 | 22 | 5 | 1 | 1 |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SAMPLE | DEPTH, METRE | *Eoguttulina* sp. | *Nuttallides* aff. *concentricus* | *Hyperammina sp. 1* | *Lagenammina* aff. *latrami* | *Psammosphaera* aff. *fusca* | *Reophax* aff. *metensis* | *Trochammina tagluensis* | *Ammodiscus* aff*. macilentus* | *Verneuilinoides* aff. *exvadum* | *Ammomarginulina* aff. *brevis* | *Miliammina* sp. | *Ammobaculites* sp. | *Glomospira* aff. *gordialiformis* | *Gravellina* aff. *dawsoni* | *Kalamopsis* sp. | *Melonis* aff. *affinis* | *Nonion* sp. | *Quinqueloculina* sp. | Textulariina genus indeterm. |
| 66 | 120.05 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4 | 1 |  |  |
| 64 | 140.05 |  |  |  |  | 3 |  |  |  |  |  |  |  | 4 |  |  |  |  | 1 |  |
| 62 | 160.05 |  |  |  | 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60 | 180.05 |  |  |  |  |  |  |  |  |  |  | 4 |  |  |  |  | 1 | 10 |  |  |
| 58 | 200.05 |  |  |  |  |  | 13 |  | 1 |  |  |  |  |  | 2 |  | 2 |  |  | 21 |
| 56 | 220.05 |  |  |  | 1 | 6 |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  | 10 |
| 54 | 240.05 |  |  |  |  | 6 |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  | 27 |
| 52 | 260.05 |  |  |  |  | 13 | 27 | 2 |  |  |  |  |  |  |  |  |  |  |  | 17 |
| 50 | 280.05 |  |  | 1 |  | 25 | 84 | 11 | 3 |  | 1 |  |  |  | 11 |  |  |  |  | 37 |
| 48 | 300.05 |  |  |  |  | 1 | 6 | 33 |  |  |  |  |  |  |  |  |  |  |  | 25 |
| 46 | 320.05 |  |  |  | 1 | 11 | 50 | 1 |  | 2 |  |  |  | 3 |  |  |  |  |  | 62 |
| 44 | 340.05 |  |  | 4 | 27 | 18 | 72 | 7 | 2 |  |  | 4 |  | 5 | 1 | 1 |  |  |  | 17 |
| 42 | 360.05 |  |  |  |  | 6 | 27 |  |  |  |  |  |  | 2 | 2 |  |  |  |  | 33 |
| 40 | 380.05 |  |  |  |  | 7 | 49 |  | 3 | 2 |  |  |  |  |  |  |  |  |  | 14 |
| 38 | 400.05 |  |  |  |  | 4 | 38 |  |  |  | 3 |  |  | 1 |  |  |  |  |  | 35 |
| 36 | 420.05 |  |  | 3 |  | 8 | 45 |  |  |  | 2 |  |  |  |  |  |  |  |  | 20 |
| 34 | 439.93 |  |  |  |  | 6 | 22 |  |  |  | 1 |  |  | 3 |  |  |  |  |  | 30 |
| 32 | 459.56 |  |  |  | 3 |  | 48 |  |  | 3 |  |  | 1 |  |  |  |  |  |  | 11 |
| 30 | 480.05 |  |  |  |  |  |  | 9 |  |  | 1 | 1 |  |  |  |  |  |  |  | 8 |
| 28 | 500.05 |  |  |  |  | 3 |  |  |  |  |  | 2 |  |  |  |  |  |  |  | 25 |
| 26 | 504.05 |  |  |  |  | 26 | 26 | 6 |  |  | 26 |  |  |  |  |  |  |  |  | 24 |
| 25 | 506.05 |  |  |  |  | 5 | 55 | 16 |  |  |  |  |  |  |  |  |  |  |  | 18 |
| 24 | 508.05 |  |  |  |  | 1 | 10 | 6 |  | 2 |  |  |  |  |  |  |  |  |  | 25 |
| 23 | 509.05 |  |  |  | 7 | 9 | 7 | 32 |  | 27 |  |  |  |  |  |  |  |  |  | 15 |
| 22 | 511.05 |  |  |  |  |  |  | 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 513.05 |  |  |  | 28 | 3 | 4 | 7 |  | 6 |  |  |  |  |  |  |  |  |  | 12 |
| 20 | 515.05 |  |  |  | 8 |  | 4 | 15 |  |  |  |  |  |  |  |  |  |  |  | 26 |
| 19 | 512.05 |  |  |  |  |  |  | 20 |  | 9 |  |  |  |  |  |  |  |  |  | 18 |
| 18 | 519.05 |  |  |  |  |  |  | 6 |  | 2 |  |  |  |  |  |  |  |  |  | 24 |
| 17 | 521.05 |  |  |  |  |  |  | 6 |  |  |  |  |  |  |  |  |  |  |  | 10 |
| 16 | 523.05 |  |  |  |  |  |  | 13 |  | 1 |  |  |  |  |  |  |  |  |  | 19 |
| 15 | 525.05 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 9 |
| 14 | 527.05 |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  | 7 |
| 13 | 529.05 |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |  |  |  |  | 8 |
| 12 | 530.99 |  |  |  |  |  |  | 9 | 1 |  |  |  |  |  |  |  |  |  |  |  |
| 11 | 532.37 |  |  |  |  |  | 8 |  |  |  |  |  |  |  |  |  |  |  |  | 18 |
| 10 | 534.37 |  |  | 1 | 1 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  | 17 |
| 9 | 536.36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 8 |
| 8 | 538.38 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 7 |
| 7 | 540.42 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 |
| 6 | 542.37 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 13 |
| 5 | 544.63 | 1 | 13 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 11 |
| 4 | 546.73 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 13 |
| 2 | 594.75 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5 |