

GSA Data Repository 2018168

Kaiser et al., 2018, The invasive diatom *Pseudosolenia calcar-avis* and specific C25 isoprenoid lipids as a sedimentary time marker in the Black Sea: Geology, <https://doi.org/10.1130/G40294.1>.

Table DR1. Data from core MSM33/55-2.

| sediment depth (cm) | TOC (%) | 210PB unsubs. | (Bq/kg) error | 137Cs (Bq/kg) error | 241Am (Bq/kg) error | 206/207Pb Hg (µg/kg) | PCBs (ng/g) | C25:2 HBI (ng/g) | C25:3 HBI (ng/g) | C25:2 HBI/C25:3 HBI | C25:2 HBI (ng/gTOC) | C25:3 HBI (ng/gTOC) | P. calcar-avis frustules | | | |
|---------------------|---------|---------------|---------------|---------------------|---------------------|----------------------|-------------|------------------|------------------|---------------------|---------------------|---------------------|--------------------------|-------|-------|-----------|
| 0.25 | 4.0 | 1336.35 | 18.73 | 37.63 | 1.55 | 0.00 | 0.00 | 1.182 | 120 | 4.33 | 17614 | 2079 | 8 | 90836 | 10723 | very high |
| 0.75 | 3.6 | 921.56 | 33.11 | 47.87 | 3.21 | 0.00 | 0.00 | 1.181 | 143 | 6.32 | 4583 | 653 | 7 | 22076 | 3143 | ND |
| 1.25 | 4.5 | 694.29 | 21.03 | 42.86 | 1.38 | 0.67 | 0.65 | 1.178 | 146 | 6.36 | 1897 | 485 | 4 | 8900 | 2277 | ND |
| 1.75 | 4.0 | 514.02 | 26.34 | 40.79 | 2.06 | 1.24 | 0.99 | 1.176 | 132 | 8.65 | 589 | 324 | 2 | 2293 | 1260 | ND |
| 2.25 | 3.5 | 339.25 | 23.87 | 29.73 | 2.19 | 2.53 | 1.10 | 1.175 | 149 | 7.36 | 340 | 201 | 2 | 1054 | 625 | ND |
| 2.75 | 3.0 | 275.71 | 12.80 | 60.13 | 2.04 | 7.68 | 0.69 | 1.178 | 130 | 6.52 | 157 | 114 | 1 | 466 | 338 | ND |
| 3.25 | 2.4 | 263.20 | 16.51 | 41.99 | 2.04 | 4.23 | 1.01 | 1.182 | 119 | 5.10 | 74 | 57 | 1 | 210 | 162 | ND |
| 3.75 | 2.4 | 189.40 | 12.88 | 12.88 | 1.08 | 0.99 | 0.67 | 1.181 | 101 | 2.63 | 61 | 19 | 3 | 131 | 42 | ND |
| 4.25 | 2.1 | 139.97 | 13.23 | 0.80 | 0.57 | 0.00 | 0.00 | 1.185 | 94 | 2.09 | 18 | 12 | 2 | 44 | 31 | ND |
| 4.75 | 2.3 | 112.75 | 11.19 | 1.50 | 0.75 | 0.00 | 0.00 | 1.189 | 80 | 1.10 | 17 | 9 | 2 | 33 | 18 | ND |
| 5.25 | 2.0 | 94.33 | 9.19 | 0.84 | 0.37 | 0.00 | 0.00 | 1.187 | 69 | 0.45 | 25 | 23 | 1 | 51 | 46 | high |
| 5.75 | 1.6 | 78.08 | 17.70 | 0.00 | 0.00 | 0.00 | 0.00 | 1.189 | 58 | 0.67 | 11 | 13 | 1 | 23 | 26 | ND |
| 6.25 | 1.7 | 61.65 | 6.73 | 0.00 | 0.00 | 0.00 | 0.00 | 1.191 | 60 | 1.04 | 10 | 5 | 2 | 21 | 10 | low |
| 6.75 | 1.9 | 47.43 | 13.59 | 0.00 | 0.00 | 0.00 | 0.00 | 1.192 | 60 | 0.46 | 4 | 5 | 1 | 10 | 12 | ND |
| 7.25 | 1.9 | 29.76 | 6.89 | 0.00 | 0.00 | 0.00 | 0.00 | 1.193 | 62 | 1.24 | 8 | 8 | 1 | 16 | 16 | ND |
| 7.75 | 1.7 | 22.39 | 4.66 | 0.00 | 0.00 | 0.00 | 0.00 | 1.195 | 59 | 0.43 | 7 | 6 | 1 | 15 | 15 | low |
| 8.25 | 1.8 | 13.55 | 7.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.195 | 54 | 0.49 | BDL | BDL | - | - | - | 0 |
| 8.75 | 2.0 | 8.19 | 6.38 | 0.00 | 0.00 | 0.00 | 0.00 | 1.195 | 48 | 0.37 | BDL | BDL | - | - | - | 0 |
| 9.25 | 1.9 | 4.72 | 10.11 | 0.00 | 0.00 | 0.00 | 0.00 | 1.194 | 49 | 0.51 | BDL | BDL | - | - | - | 0 |
| 9.75 | 1.9 | 2.84 | 8.29 | 0.00 | 0.00 | 0.00 | 0.00 | 1.197 | 57 | BDL | BDL | BDL | - | - | - | 0 |
| 10.25 | 2.0 | 1.79 | 6.92 | 0.00 | 0.00 | 0.00 | 0.00 | 1.198 | 49 | BDL | BDL | BDL | - | - | - | ND |
| 10.75 | 2.0 | 0.24 | 9.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.197 | 55 | BDL | BDL | BDL | - | - | - | ND |
| 11.25 | 2.1 | 0.79 | 9.69 | 0.00 | 0.00 | 0.00 | 0.00 | 1.197 | 55 | BDL | BDL | BDL | - | - | - | ND |
| 11.75 | 1.6 | 0.21 | 8.08 | 0.00 | 0.00 | 0.00 | 0.00 | 1.198 | 44 | BDL | BDL | BDL | - | - | - | 0 |
| 12.25 | 1.8 | 1.06 | 9.79 | 0.00 | 0.00 | 0.00 | 0.00 | 1.199 | 49 | BDL | BDL | BDL | - | - | - | ND |
| 12.75 | 2.0 | 0.63 | 11.04 | 0.00 | 0.00 | 0.00 | 0.00 | 1.197 | 44 | BDL | BDL | BDL | - | - | - | ND |
| 13.25 | 1.6 | 0.20 | 8.38 | 0.00 | 0.00 | 0.00 | 0.00 | 1.198 | 39 | 0.44 | BDL | BDL | - | - | - | ND |
| 13.75 | 1.9 | 0.02 | 10.07 | 0.00 | 0.00 | 0.00 | 0.00 | 1.198 | 40 | BDL | BDL | BDL | - | - | - | ND |
| 14.25 | 1.9 | 0.01 | 5.10 | 0.00 | 0.00 | 0.00 | 0.00 | 1.198 | 43 | BDL | BDL | BDL | - | - | - | ND |
| 14.75 | 1.9 | 1.80 | 6.40 | 0.00 | 0.00 | 0.00 | 0.00 | 1.198 | 45 | BDL | BDL | BDL | - | - | - | ND |
| 15.25 | 1.9 | 1.28 | 8.49 | 0.00 | 0.00 | 0.00 | 0.00 | 1.197 | 48 | BDL | BDL | BDL | - | - | - | ND |

Note: BDL : below the detection limit; ND : no data.