

Table A1. ^{137}Cs and ^{210}Pb data for the cores Klg02, Klg05, Klg06, Klg07 and Klg08.

cm	$^{210}\text{Pb}_{\text{XS}}$	^{137}Cs
Klg02		
0.5	134 ± 10	10 ± 2
1.5	111 ± 13	9 ± 2
2.5	136 ± 9	11 ± 1
4.5	114 ± 8	11 ± 1
10.5	120 ± 10	11 ± 2
15.5	125 ± 15	14 ± 3
20.5	118 ± 13	10 ± 2
25.5	125 ± 10	8 ± 1
30.5	134 ± 17	10 ± 2
35.5	177 ± 11	9 ± 1
40.5	84 ± 8	5 ± 1
45.5	20 ± 7	1 ± 1
48.5	19 ± 7	1 ± 1
Klg05		
0.5	161 ± 9	11 ± 1
2.5	163 ± 8	14 ± 1
4.5	136 ± 10	16 ± 1
6.5	81 ± 7	3 ± 1
8.5	44 ± 11	5 ± 1
10.5	26 ± 5	0
20.5	24 ± 6	negligeable
Klg06		
4.5	50 ± 8	2 ± 1
6.5	31 ± 7	3 ± 1
8.5	13 ± 7	n.d.
10.5	11 ± 10	n.d.
Klg07		
1.5	144 ± 15	6 ± 2
2.5		
3.5	132 ± 9	13 ± 2
5.5	145 ± 15	9 ± 2
7.5	81 ± 10	9 ± 2
9.5	23 ± 7	
11.5	7 ± 9	
Klg08		
0.5	56 ± 10	6 ± 2
2.5	71 ± 7	5 ± 1
4.5	51 ± 10	4 ± 1
6.5	42 ± 6	4 ± 1
8.5	27 ± 4	2 ± 0
10.5	22 ± 5	1 ± 1
14.5	15 ± 5	

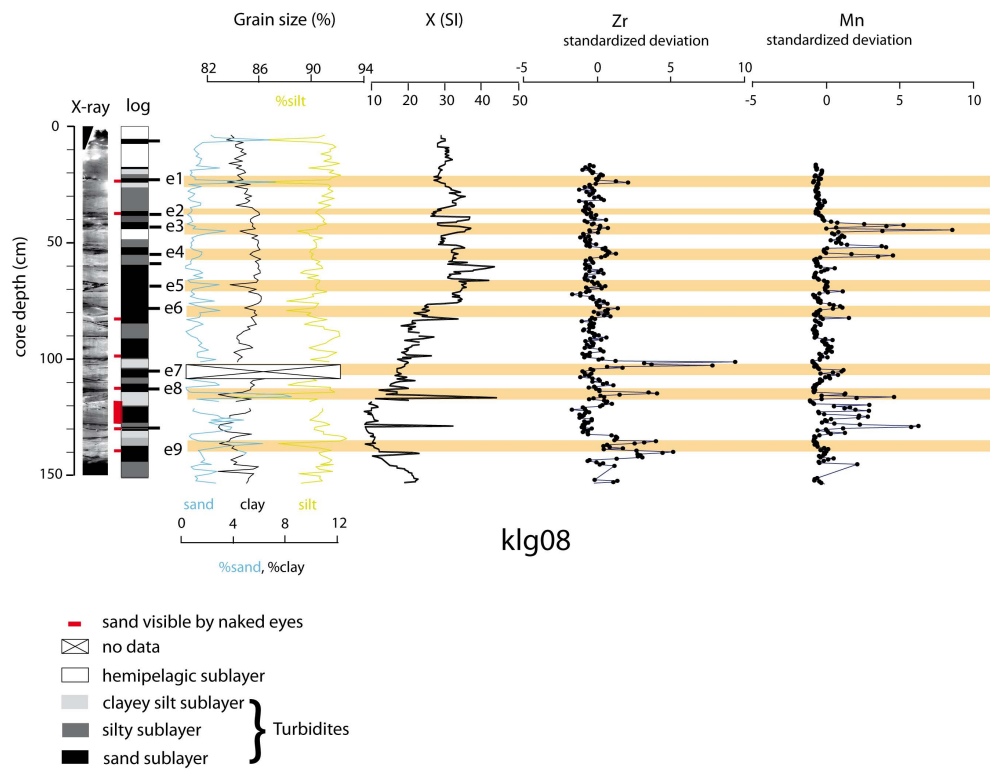


Fig. S1. Stratigraphic log for the first 1.5 m of the Klg08 core situated in the Tekirdağ Basin obtained combining X-ray imagery, grain size, magnetic susceptibility data, Mn and Zr standardized intensities. Main events deposited are identified and labelled.

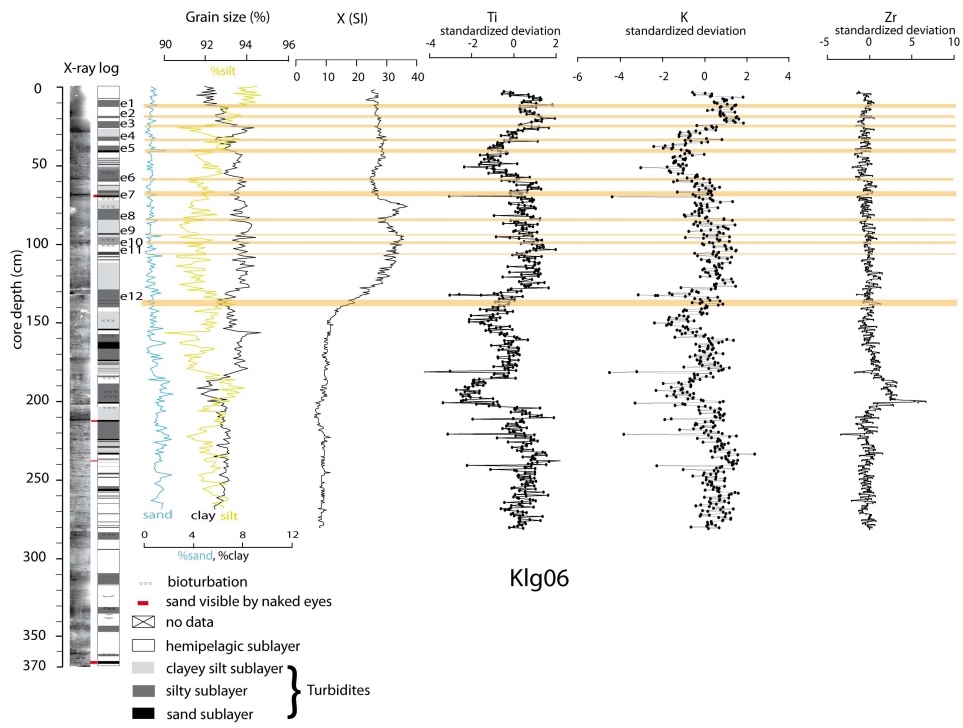


Fig.S2. Stratigraphic log of the Klg06 core situated in the Western High obtained combining X-ray imagery, grain size, magnetic susceptibility data, Mn and Zr standardized intensities. Main events deposited are identified and labelled.

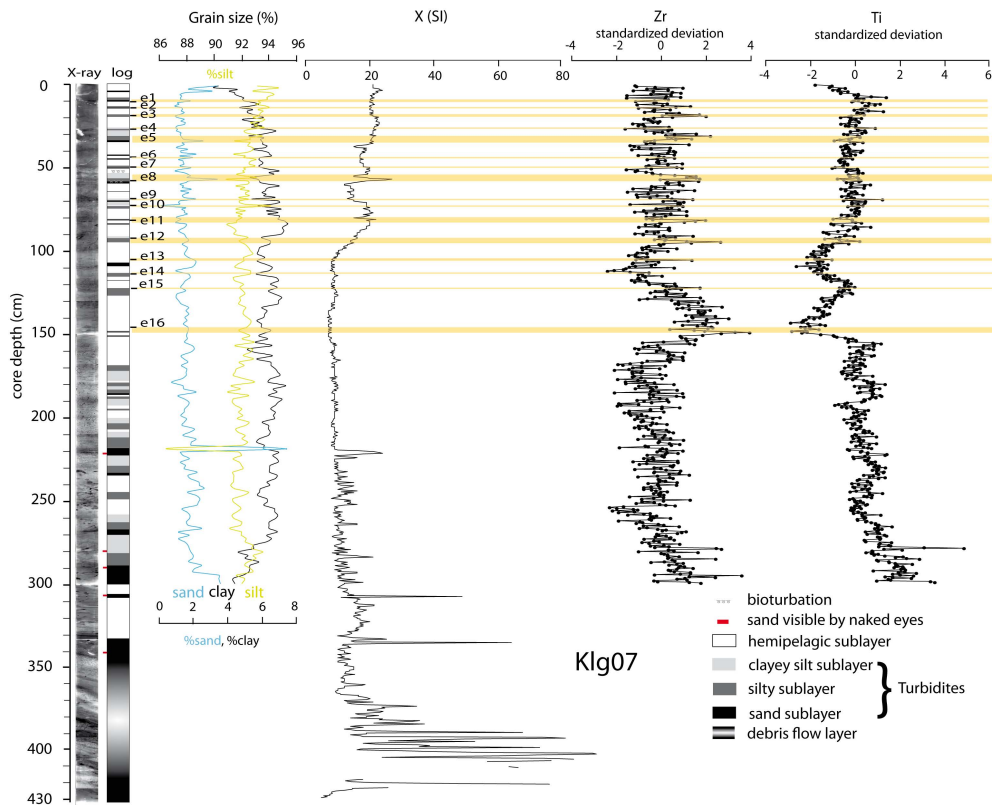


Fig. S3. Stratigraphic log of the Klg07 core situated in the Western High obtained combining X-ray imagery, grain size, magnetic susceptibility data, Mn and Zr standardized intensities. Main events deposited are identified and labelled; event labels change according to their stratigraphic position, beginning with 1 at the top of the core.

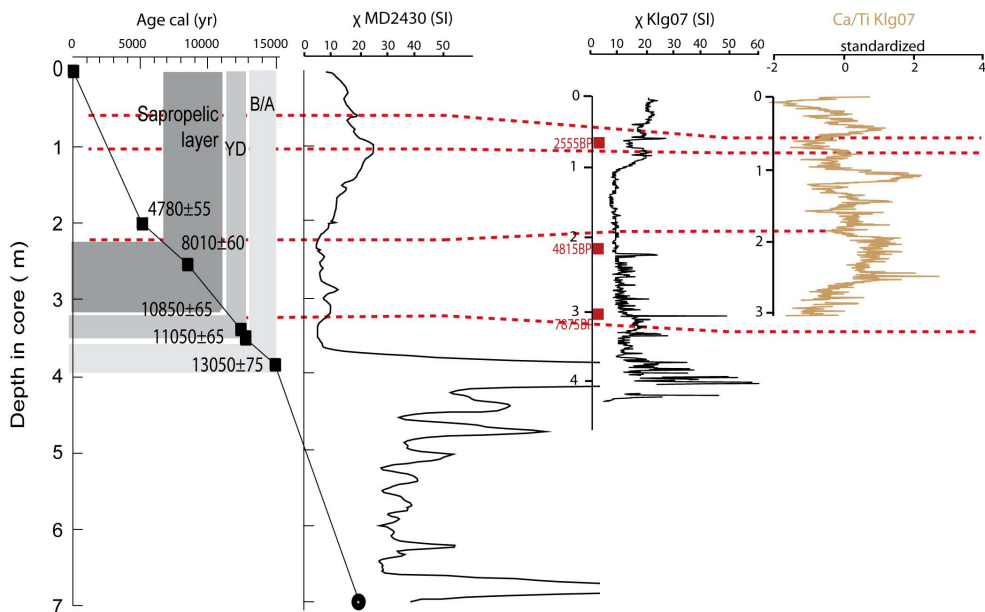


Fig. S4. Core correlation between Klg07 and MD2430 (Vidal et al., 2010) in the Western High obtained by using magnetic susceptibility data and Ca/Ti ratio. Red dashed lines indicate correlation key points. Uncalibrated ages are indicated in red and calibrated ages in black.

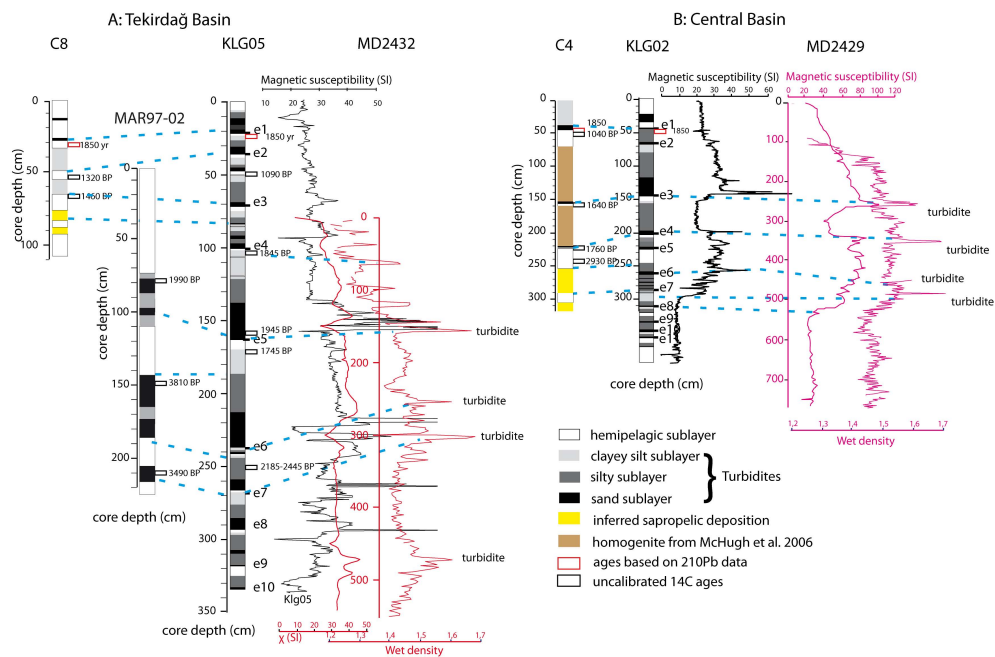


Fig. S5. Core correlation between Klg02 and Klg05 and already published cores in the Central and Tekirdağ Basins. **A:** Correlation in the Tekirdağ Basin between the cores Klg05, MD2432, C8 (McHugh et al., 2006) and MAR97-02 (Hiscott et al., 2002) obtained by using stratigraphic log and physical parameters. Uncalibrated ages are indicated for all cores and correlation key points are depicted with blue dashed lines. **B:** Correlation in the Central Basin between the cores Klg02, MD2429 (Beck et al., 2007) and C4 (McHugh et al., 2006) by using log and physical parameters. Uncalibrated ages are indicated for all cores and correlation key points are depicted with blue dashed lines.