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*Supplement of*

## **Climate variability and ocean fertility during the Aptian Stage**

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## Supplementary material

Cismon core			
m	22S/(22S+22R)	TEX <sub>86</sub>	SST (°C)
19.04	0.38	0.56	21.5
19.56	<b>0.21</b>	<b>0.64</b>	<b>25.6</b>
19.77	<b>0.08</b>	<b>0.58</b>	<b>22.5</b>
20.82	<b>0.10</b>	<b>0.66</b>	<b>26.1</b>
21.11	<b>0.11</b>	<b>0.65</b>	<b>26.0</b>
21.26	<b>0.18</b>	<b>0.64</b>	<b>25.3</b>
22.53	<b>0.15</b>	<b>0.67</b>	<b>26.7</b>
22.96	<b>0.16</b>	<b>0.62</b>	<b>24.4</b>
23.19	<b>0.19</b>	<b>0.61</b>	<b>23.7</b>
23.4	<b>0.17</b>	<b>0.57</b>	<b>21.7</b>
23.6	0.55	0.52	19.3
23.74	0.73	0.55	20.6
24.04	0.54	0.57	21.9
24.2	0.39	0.69	27.5
24.47	0.45	0.66	26.3
24.66	0.42	0.66	26.2
25.36	0.45	0.67	26.8

Table 1. Hopane 22S/(22S+22R) ratios (indicating the maturity of organic matter), TEX<sub>86</sub>, and Sea Surface water Temperature (SST) °C for the Cismon core. In bold are highlighted the values having ratios < 0.2. Samples having values > 0.2 were excluded in the discussion since, at this level, TEX<sub>86</sub> values will become biased towards lower temperatures (see the main text).