

Table VII-5. The average compositions of major marine sediments in per cent (Ronov and Yaroshevskiy, 1976).

	Pelagic clay	Calcareous ooze	Siliceous ooze	Ave. marine sediments <sup>b</sup>
Weight fraction	0.37	0.53	0.1	
Density <sup>a</sup> g/cm <sup>3</sup>	1.1	1.2	0.57	1.03
SiO <sub>2</sub> %	54.16	18.81	62.74	36.28
TiO <sub>2</sub>	0.81	0.29	0.66	0.52
Al <sub>2</sub> O <sub>3</sub>	16.07	6.08	13.19	10.49
Fe <sub>2</sub> O <sub>3</sub>	6.98	2.55	4.92	4.43
FeO	0.85	0.46	1.15	0.67
MnO	0.63	0.19	0.14	0.35
MgO	3.42	1.98	3.02	2.62
CaO	3.33	35.55	1.47	20.22
Na <sub>2</sub> O	1.28	0.7	1.52	1
K <sub>2</sub> O	2.85	1.03	2.7	1.87
P <sub>2</sub> O <sub>5</sub>	0.21	0.11	0.16	0.15
F	0.063	0.054	0.036	0.056
C(organic)	0.27	0.38	0.3	0.33
CO <sub>2</sub>	2.45	28.85	1.08	16.31
SO <sub>3</sub>	(0.5)			(0.19)
S(pyrite)	0.001	0.001	0.001	0.001
H <sub>2</sub> O	6.63	2.97	6.91	4.72
ΣFe <sub>2</sub> O <sub>3</sub> <sup>c</sup>	7.92	3.06	6.2	5.17

a: The density of the surface sediments are calculated from equations given by Hamilton (1976).

b: marine sediments do not include coastal sediments which are counted as continental sediments.

c: The total iron constant expressed as Fe<sub>2</sub>O<sub>3</sub>.