

Analysis of Diatomaceous Ooze.

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Station 157; 1950 fathoms, Southern Ocean.

I. 0·5618 grm. of substance dried at 120° C. gave 0·0330 grm. loss on ignition, treated with hydrofluoric and sulphuric acids gave 0·5092 grm. of silica, 0·00112 grm. of barium oxide, 0·00085 grm. of potash and 0·00225 grm. soda.

II. 0·6487 grm. of substance dried at 120° C. gave 0·0379 grm. loss on ignition, treated with hydrofluoric and sulphuric acids gave 0·5870 grm. of silica, 0·0013 grm. of barium oxide, 0·0057 grm. of ferric oxide, 0·0085 grm. of alumina, 0·0022 grm. of lime, 0·00198 grm. of magnesia, and traces of phosphoric acid.

	I.	II.	Mean.
Silica (SiO_2), .	90·63	90·49	90·56
Ferric oxide (Fe_2O_3), .	...	0·88	0·88
Alumina (Al_2O_3), .	...	1·31	1·31
Lime (CaO}), .	...	0·33	0·33
Baryta (BaO), .	0·20	...	0·20
Magnesia (MgO}), .	...	0·30	0·30
Potash (K_2O), .	0·15	...	0·15
Soda (Na_2O), .	0·40	...	0·40
Phosphoric acid (P_2O_5), .	trace	...	trace
Water (H_2O), .	5·87	5·84	5·85
Loss on ignition, .	...	...	...
		99·98	

For analysis of glauconitic grains and casts see p. 468; and of Globigerina ooze see p. 915.