52. Globigerina Ooze.—Station 332.

Lat. 37° 29′ S., long. 27° 31′ W., 2200 fathoms (Brazier).

	Loss on ignition after drying at 230° Fahr.,	2·82
Portion soluble in Hydrochloric Acid = 84·95 =	Alumina,	3·75
	Ferric oxide,	1·51
	Calcium phosphate,	1·74
	Manganese oxide,	trace
	Calcium sulphate,	0·58
	Calcium carbonate,	65·67
	Magnesium carbonate,	1·33
	Silica,	10·37
Portion insoluble in Hydrochloric Acid = 12·23 =	Alumina,	2·18
	Ferric oxide,	0·55
	Lime,	0·38
	Magnesia,	0·11
	Silica,	9·06
		100·00

53. Globigerina Ooze.—Station 338.

Lat. 21° 15′ S., long. 14° 2′ W., 1990 fathoms (Brazier).

	Loss on ignition after drying at 230° Fahr.,	1·40
Portion soluble in Hydrochloric Acid = 97·11 =	Alumina,	0·65
	Ferric oxide,	0·60
	Calcium phosphate,	0·90
	Manganese oxide,	...
	Calcium sulphate,	0·19
	Calcium carbonate,	92·54
	Magnesium carbonate,	0·87
	Silica,	1·36
Portion insoluble in Hydrochloric Acid = 1·49 =	Consisting of alumina and ferric oxide, with silica,	1·49
		100·00

54. Red Mud.—Station 120.

Lat. 8° 37′ S., long. 34° 28′ W., 675 fathoms (Hornung).

0·7287 grm.	of substance dried at 100° C.,	lost	0·0131 grm.	= 2·43	per cent.
0·8569 ,,	,,	,,	0·01659 ,,	= 1·93	,,
0·9462 ,,	,,	,,	0·0220 ,,	= 2·32	,,
0·9806 ,,	,,	,,	0·0230 ,,	= 2·34	,,
			Mean loss on ignition,	= 2·27	,,

I. 0·5884 grm. of substance dried at 100° C., fused with the carbonates of soda and potash, gave 0·0354 grm. of water, 0·1863 grm. of silica, 0·1511 grm. of lime, 0·0266 grm. of peroxide of iron, 0·0542 grm. of alumina, 0·0309 grm. of pyrophosphate of magnesia = 0·0122 grm. of magnesia.

II. 0·8381 grm. of substance dried at 100° C., treated with hydrofluoric and sulphuric acids, gave 0·0435 grm. of the chlorides of soda and potash, 0·058 grm. of chloroplatinate of potash = 0·0112 grm. of potash and, by difference, 0·0137 grm. of soda.

III. 0·9204 grm. of substance dried at 100° C. gave 0·02268 grm. of chlorine.

IV. 0·9397 grm. of substance dried at 100° C. gave 0·1610 grm. of carbonic acid.

V. 0·9484 grm. of substance dried at 100° C. gave 0·0076 grm. of sulphate of barium = 0·026 grm. of sulphuric anhydride.