IV. 0·9945 grm. of substance, dried at 100° C., treated with sulphuric and hydrofluoric acids, gave 0·0587 grm. of the chlorides of soda and potash, and 0·0865 grm. of chloroplatinate of potash = 0·0165 grm. of potash and 0·0173 grm. of soda.

Silica,	43·32
Alumina,	13·96
Peroxide of iron,	17·50
Protoxide of iron,	4·36
Lime,	5·96
Magnesia,	5·89
Potash,	1·66
Soda,	1·74
Water,	6·41
	100·80

27. Red Clay (after removal of carbonate of lime by dilute acid).—Station 286. Lat. 33° 29′ S., long. 133° 22′ W., 2335 fathoms (Klement).

I. 1·5318 grms. of substance, dried at 110° C., gave 0·0230 grm. of carbonic acid.

II. 1·0940 grms. of substance, dried at 110° C., fused with the carbonates of soda and potash, gave 0·0973 grm. of water, 0·4279 grm. of silica, 0·1685 grm. of alumina, 0·1961 grm. of peroxide of iron, 0·0552 grm. of dioxide of manganese, 0·0916 grm. of lime, 0·0720 grm. of pyrophosphate of magnesia.

III. 0·9345 grm. of substance, dried at 110° C., gave 0·0981 grm. of loss on ignition, and, after being treated with hydrofluoric and sulphuric acids, 0·0434 grm. of the chlorides of soda and potash, and 0·0611 grm. of chloroplatinate of potash.

Silica,	39·10
Alumina,	15·40
Peroxide of iron,	17·93
Manganese dioxide,	5·75
Lime,	8·37
Magnesia,	2·37
Potash,	1·27
Soda,	1·40
Water,	8·89
Carbonic acid,	1·50
	101·98

Note.—Before the blow-pipe this substance melted into a deep-coloured scoriaceous bead.

28. Radiolarian Ooze.—Station 265. Lat. 12° 42′ N., long. 152° 1′ W., 2900 fathoms (Brazier).

Loss on ignition after drying at 230° Fahr.,		4·30
Portion soluble in Hydrochloric Acid = 63·21 =	Alumina,	6·75
	Ferric oxide,	11·20
	Calcium phosphate,	0·65
	Manganese oxide,	0·57
	Calcium sulphate,	0·29
	Calcium carbonate,	2·54
	Magnesium carbonate,	2·46
	Silica,	38·75
Portion insoluble in Hydrochloric Acid = 32·49 =	Alumina,	6·19
	Ferric oxide,	3·09
	Lime,	1·85
	Magnesia,	0·34
	Silica,	21·02
		100·00