

RESIDUE.				ADDITIONAL OBSERVATIONS.
Per cent.	Siliceous Organisms.	Minerals.	Fine Washings.	
82.83	(4.00 %), Sponge spicules (including <i>Geodia</i> ), <i>Astrorhizidæ</i> , <i>Lituolidæ</i> , <i>Radiolaria</i> , <i>Diatoms</i> .	(10.00 %), m. di. 0.10 mm., angular; pumice, brown glassy volcanic particles, felspar, plagioclase, augite, quartz, magnetite, altered olivine, lapilli.	(68.83 %), much fine amorphous matter, minute mineral and siliceous remains.	This deposit was red on the top, grey at the bottom, and contained some pumice fragments. There is no difference save that of colour between the upper and lower layers. In the bag of the trawl were much mud and large pieces of pumice and other stones, varying in size from that of a pea to that of a hen's egg. These are slightly impregnated in some cases with manganese and overgrown with <i>Serpula</i> and <i>Hyperammia vagans</i> . Pieces of wood, fruits, Annelid tubes, Pteropod and <i>Ianthina</i> shells were also in the trawl. <i>Rhizammina algeformis</i> is common. Many excreta of Echinoderms.
13.13	(2.00 %), Sponge spicules, <i>Astrorhizidæ</i> , arenaceous <i>Textularidæ</i> , a few imperfect casts, <i>Diatoms</i> .	(1.00 %), m. di. 0.06 mm., angular; fragments of pumice, black or brown altered volcanic glass, felspar, augite, magnetite, quartz, manganese grains.	(10.13 %), amorphous matter, fine mineral particles, and remains of siliceous organisms.	Several dredgings were taken; the bottom was always found to be a Coral Sand or Coral Mud. The pelagic Foraminifera are rare. The sands are coarse and made up of fragments of Coral, calcareous Algae, Lamellibranchs, and Gasteropods. Many of the fragments are overgrown with <i>Serpula</i> , Foraminifera, and Polyzoa. A few imperfect casts remain after treatment with acid.
72.70	(2.70 %), Sponge spicules.	(70.00 %), m. di. 0.25 mm., angular and rounded; plagioclase, sanidine, pyroxene, hornblende, olivine more or less altered, magnetite, splinters of volcanic glass, palagonite, small rounded lapilli, quartz.	...	The sand is composed of fine particles of volcanic minerals, averaging in size 0.25 mm., mixed with calcareous organisms.
...	...	...	...	A sounding and dredging were taken about a mile from the reef in 152 fathoms. Only traces of a greenish coloured sand were in the sounding cup.
36.25	(2.00 %), <i>Radiolaria</i> , Sponge spicules, <i>Astrorhizidæ</i> , <i>Lituolidæ</i> , <i>Diatoms</i> .	(2.00 %), m. di. 0.10 mm., angular; pumice, plagioclase, magnetite, brown glassy volcanic particles, hornblende, very small lapilli of andesitic rocks.	(32.25 %), fine amorphous matter, minute mineral fragments, and fine remains of siliceous organisms.	In the trawl were several rounded pieces of pumice, about $\frac{1}{2}$ to 1 inch (12 to 25 mm.) in diameter, which were slightly impregnated with manganese in some cases and also overgrown with a Rhizopod (probably <i>Hyperammia</i> ).
100.00	(2.00 %), <i>Radiolaria</i> , Sponge spicules, <i>Reophax</i> , <i>Lituolidæ</i> , <i>Diatoms</i> .	(1.00 %), m. di. 0.10 mm., angular; pumice, felspar, augite, palagonite, magnetite.	(97.00 %), much fine chocolate coloured amorphous matter, minute mineral particles, and siliceous remains.	On examination of the washings of a large quantity, a piece of pumice about the size of a pea was found, and one or two arenaceous Foraminifera; also a good many manganese grains.
93.14	(2.00 %), <i>Radiolaria</i> , <i>Astrorhizidæ</i> , <i>Diatoms</i> .	(2.00 %), m. di. 0.10 mm., angular; magnetite, glassy volcanic fragments, manganese grains.	(89.14 %), much amorphous matter, fine mineral and siliceous remains.	The Globigerinidæ are chiefly fragmentary. In the washings was a piece of pumice, about the size of a pea, overgrown with <i>Hyperammia vagans</i> .