Residue.				Additional Observations.	
Per cent.	Siliceous Organisms.	Minerals.	Fine Washings.		
59·37	(1·00 %), a few Sponge spicules, one or two Radiolaria, Lituolidæ, imperfect brown casts.	(1·00 %), m. di. 0·12 mm., angular and rounded; quartz, hornblende, felspar, mica, augite, magnetite, a few glassy volcanic particles.	(57·37 %), many very fine mineral particles mixed with amorphous matter, and a few minute fragments of siliceous spicules.	Many of the shells are macroscopic, but are much broken up. Some of the mineral particles attain a diameter of 2 mm.	Off the Coast of South America between Pernambuco and Bahia—*continued.*
79·21	(1·00 %), Sponge spicules, Lituolidæ.	(25·00 %), m. di. 0·08 mm., angular and rounded; quartz, mica, felspar, hornblende, pumice, glassy volcanic particles.	(53·21 %), amorphous matter mixed with many fine mineral particles.	Quartz is the principal mineral in this deposit; the smaller particles are angular, but when the grains are large they are rounded. Mica is abundant, and plagioclase is present in some quantity; pumice rarely occurs. Some of the grains attain a size of 1 mm.	
94·25	(1·00 %), a few fragments of Sponge spicules, Lituolidæ.	(25·00 %), m. di. 0·13 mm., angular; quartz, mica, felspar, hornblende.	(68·25 %), amorphous matter, many fine mineral particles, a few minute fragments of siliceous spicules.	The felspar is generally kaolinised.	
71·28	(1·00 %), a few Sponge spicules, Astrorhizidæ, Lituolidæ.	(25·00 %), m. di. 0·07 mm., angular and rounded; quartz, mica, felspar.	(45·28 %), amorphous matter, very many minute mineral particles, a few fragments of siliceous spicules.	The amorphous matter in this deposit is small in quantity compared with the mineral particles; these latter form the essential part of the residue, and their dimensions vary from 1 to 0·02 mm. The quartz particles are generally angular, rarely rounded, and are the most abundant of the minerals in this deposit. Mica is also abundant; felspar is frequent and sometimes kaolinised. Many of the shells are macroscopic although much broken up.	
49·35	(1·00 %), a few Sponge spicules, Lituolidæ.	(1·00 %), m. di. 0·15 mm., rounded and angular; quartz, mica, felspar, hornblende.	(47·35 %), amorphous matter, many minute mineral particles, and a few fragments of siliceous spicules.	A few of the pelagic shells are macroscopic. The felspar in some cases is kaolinised. Note that in all the deposits along this coast Radiolaria are exceedingly rare, and glauconite nearly, if not quite, absent.	
69·10	(1·00 %), Sponge spicules, and a few Diatoms.	(45·00 %), m. di. 0·40 mm., rounded and angular; quartz, felspar, magnetite, hornblende; mica, minute rock fragments, grains of glauconite.	(23·10 %), amorphous flocculent matter, many minute mineral particles, and fragments of siliceous organisms.	In some places the deposit is a quartz sand; in others a mud containing all the above-mentioned material, along with fine amorphous matter. Many of the organisms are macroscopic.	
53·57	(1·00 %), a few siliceous spicules, red casts of pelagic Foraminifera, *Astrorhiza*.	(1·00 %), m. di. 0·06 mm., angular; quartz, mica, monoclinic and triclinic felspars, hornblende, glassy volcanic fragments, augite.	(51·57 %), amorphous matter and very many fine mineral particles.	Some of the quartz grains are rounded and covered with limonite. The particles of felspar are in some cases kaolinised. Scales of mica are abundant, having sometimes a diameter of 0·2 mm.; some silver-white scales are probably muscovite. Dredge-rope carried away.	Bahia to Tristan da Cunha.
64·07	(1·00 %), a few fragments of Sponge spicules.	(1·00 %), m. di. 0·06 mm., angular and rounded; quartz, felspar, augite, hornblende, pumice, a few grains of manganese.	(62·07 %), amorphous matter, with a great many fine mineral particles.	Many of the quartz grains are rounded and have a diameter of 0·2 mm. The trawl was hauled up just to the ship's side when the line parted; judging from the extension of the accumulators, it was apparently heavily laden.	
44·37	(1·00 %), Radiolaria, Lituolidæ.	(1·00 %), m. di. 0·06 mm., a few particles have a diameter of 0·20 mm., angular; brown and red glassy volcanic particles, felspar, augite, hornblende, mica, a few grains of quartz and pumice.	(42·37 %), amorphous matter, with many very minute mineral particles and a few fragments of siliceous organisms.	This deposit contains much amorphous clayey matter. The trawl brought up the carbone of a *Ziphius*,* having a very slight coating of manganese; growing on it was a polyp, to which an egg capsule was attached. There was also a rounded piece of pumice, 3 to 4 cm. in diameter, white coloured and very fibrous, and containing small crystals of magnetite and hornblende.	

* See Zool. Chall. Exp., pt. iv. p. 39., pl. ii. fig. 10.