

W. Depth, 3000 fathoms. Bottom temperature, 1°3 C. Chemical composition :

Loss on ignition after drying at 230° F.....	7.44	
Portion soluble in hydrochloric acid = 56.47.	Alumina.....	12.91
	Ferric oxide.....	10.33
	Calcium phosphate.....	Traces
	Calcium sulphate.....	0.96
	Calcium carbonate.....	1.49
	Magnesium carbonate.....	3.10
Portion insoluble in hydrochloric acid = 36.09.	Silica.....	27.68
	Alumina.....	7.81
	Ferric oxide.....	1.57
	Lime.....	1.03
	Magnesia.....	0.52
	Silica.....	25.16
	<hr/>	100.00

A red clay, containing amorphous clayey matter, with oxide of iron; small crystals of sanidine, mica, augite.—A few siliceous spicules. Only a single fragment of *Globigerina* shell was observed.

No. 17.—Station XX. March 12th. Lat. 18° 56' N., Long. 59° 35' W. Depth, 2975 fathoms. Bottom temperature, 1°6 C. Chemical composition :

Loss on ignition after washing and drying at 230° F.....	7.45	
Portion soluble in hydrochloric acid = 56.83.	Alumina.....	12.28
	Ferric oxide.....	11.44
	Calcium phosphate.....	Small trace
	Calcium sulphate.....	1.47
	Calcium carbonate.....	3.50
	Magnesium carbonate.....	2.14
Portion insoluble in hydrochloric acid = 35.72.	Silica.....	26.00
	Alumina.....	7.28
	Ferric oxide.....	2.36
	Lime.....	1.18
	Magnesia.....	0.50
	Silica.....	24.40
	<hr/>	100.00

A red clay, containing amorphous clayey matter, with oxide of iron; small particles of hornblende, augite, magnetite, sanidine, and quartz, and a few grains of peroxide of manganese.—A few siliceous spicules. Only two fragments of *Globigerina* shell occurred in the portion of the sample examined.