

No. 18.—Station XXI. March 13th. Lat.  $18^{\circ} 54' N.$ , Long.  $61^{\circ} 28' W.$  Depth, 3025 fathoms. Bottom temperature,  $1^{\circ} 3 C.$  Chemical composition :

Loss on ignition after drying at $230^{\circ} F.$ .....	5.92	
Portion soluble in hydrochloric acid = 50.42.	Alumina.....	7.04
	Ferric oxide.....	12.25
	Calcium phosphate.....	Small traces
	Calcium sulphate.....	0.51
	Calcium carbonate.....	2.44
	Magnesium carbonate.....	3.48
Portion insoluble in hydrochloric acid = 43.66.	Silica.....	24.70
	Alumina.....	5.51
	Ferric oxide.....	6.73
	Lime.....	0.81
	Magnesia.....	0.41
	Silica.....	30.20
	<hr/> 100.00	

A red clay, containing much amorphous clayey matter, with iron peroxide; many fragments of sanidine, augite, olivine, hornblende, and magnetite; many of the mineral particles much larger than those at Station XX.—A few fragments of the tests of *Globigerina*.

No. 19.—Station XXII. March 14th. Lat.  $18^{\circ} 40' N.$ , Long.  $62^{\circ} 56' W.$  Depth, 1420 fathoms. Bottom temperature,  $3^{\circ} 0 C.$  Chemical composition :

Loss on ignition after drying at $230^{\circ} F.$ .....	3.80	
Portion soluble in hydrochloric acid = 92.75.	Alumina.....	} 4.42
	Ferric oxide.....	
	Calcium phosphate.....	2.41
	Calcium sulphate.....	0.41
	Calcium carbonate.....	80.69
	Magnesium carbonate.....	0.68
Portion insoluble in hydrochloric acid = 3.45.	Silica.....	4.14
	Insoluble residue, principally alumina and ferric oxide, with silica.....	3.45
	<hr/> 100.00	

A globigerina ooze, containing many pelagic foraminifera of the genera *Globigerina*, *Orbulina*, *Pulvinulina*, *Pullenia*, and *Sphaeroidina*; many shells of pteropods and heteropods; a few coccoliths and rhabdoliths; otoliths of fishes, and spines of echini; a few siliceous spicules.—Amorphous mineral matter and particles of quartz, feldspar, hornblende, and magnetite.