No. 20.—Station XXIII. March 15th. Off Sombrero Island. Depth, 450 fathoms. Chemical composition:

Loss on ignition af	ter drying at 230° F	4.00
	Alumina	1.80
Portion soluble in hydrochloric acid = 93.95.	Ferric oxide	3.00
	Calcium phosphateGood	
	Calcium sulphate	
	Calcium carbonate	84.27
	Magnesium carbonate	
	Silica	
Portion insoluble in hydrochloric	Insoluble residue, principally alumina and ferric oxide,	
acid = 2.05.	with silica	2.05
	[1] : 사람이 많이 되었다고 뭐라고 다 그는 그는 것이 없다.	100.00

A pteropod ooze, containing very many shells of pteropods and heteropods, and their broken fragments; many pelagic foraminifera of the genera Globigerina, Pulvinulina, Orbulina, Pullenia, and Sphæroidina; large Biloculinæ and calcareous Rotaliæ and Cristellariæ; a few coccoliths.——Amorphous clayey and calcareous matter, with sandy particles, quartz, feldspar, mica, magnetite, and sanidine.

Notes on the Foregoing Analyses by Professor Brazier.

The loss on ignition consists, for the most part, of water, probably water of hydration; but there is in all cases evidence of the existence of organic matter. The majority of the specimens, when treated with hydrochloric acid, evolved the peculiar tarry odor so characteristic of some of the limestones of this country. This odor was most perceptible in the specimens numbered 8, 9, 13, 19, 20.

In all the specimens in which the quantity of material was sufficient, the alkaline vapors which accompanied the moisture evolved were readily recognized.

The portion of the sample taken for analysis, after being treated with hydrochloric acid, yielded in every case a residue of a whitish-gray color, Nos. 10, 11, and 12 being nearly white.

No. 8.-Material at command, 9.80 grains.

					200									
Loss on ignition	 		 					 				 •		0.892
Soluble in acid	 	 								٠.	•	 ٠	•	7.506
Insoluble in acid	 •	 										 •	٠	1.399
														9.800