

THE VOYAGE OF H.M.S. CHALLENGER.

34. GLOBIGERINA OOZE.—Station 2.

Lat. 25° 52' N., long. 19° 22' W., 1945 fathoms (Brazier).

	Loss on ignition after drying at 230° Fahr.,	5.02	
Portion soluble in Hydrochloric Acid = 82.90	} —	Alumina,	3.23
		Ferric oxide,	4.18
		Calcium phosphate,	trace
		Calcium sulphate,	0.69
		Calcium carbonate,	64.55
		Magnesium carbonate,	1.17
Portion insoluble in Hydrochloric Acid = 12.08	} —	Silica,	9.08
		Alumina,	1.79
		Ferric oxide,	0.60
		Lime,	0.83
		Magnesia,	0.28
		Silica,	9.08
		100.00	

35. GLOBIGERINA OOZE.—Station 11.

Lat. 22° 45' N., long. 40° 37' W., 2575 fathoms (Brazier).

	Loss on ignition after drying at 230° Fahr.,	9.13	
Portion soluble in Hydrochloric Acid = 76.59	} —	Alumina,	5.61
		Ferric oxide,	4.65
		Calcium phosphate,
		Calcium sulphate,	1.02
		Calcium carbonate,	51.16
		Magnesium carbonate,	1.93
Portion insoluble in Hydrochloric Acid = 14.28	} —	Silica,	12.22
		Insoluble residue, principally alumina and ferric oxide, with silica,	14.28
		100.00	

NOTE.—Material at command only 9.80 grains ; this yielded :—

Loss on ignition,	0.895 gr.
Soluble in acid,	7.506 „
Insoluble „	1.399 „
	9.800 „

When treated with dilute hydrochloric acid it evolved a perceptible tarry odour.

36. GLOBIGERINA OOZE.—Station 12.

Lat. 21° 57' N., 43° 29' W., 2025 fathoms (Brazier).

	Loss on ignition after drying at 230° Fahr.,	8.80	
Portion soluble in Hydrochloric Acid = 80.22	} —	Alumina,	19.24
		Ferric oxide,	13.74
		Calcium phosphate,	fair trace
		Calcium sulphate,	1.37
		Calcium carbonate,	43.93
		Magnesium carbonate,	1.94
Portion insoluble in Hydrochloric Acid = 10.98	} —	General residue, consisting of soluble silica with the insoluble silicates,	10.98
			100.00

NOTE.—Material at command only 9.10 grains ; this yielded :—

Loss on ignition,	0.80 gr.
Soluble in acid,	7.30 „
Insoluble „	1.00 „
	9.10 „

When treated with dilute hydrochloric acid it evolved a perceptible tarry odour.