

THE VOYAGE OF H.M.S. CHALLENGER.

130. MANGANESE NODULES.—Station 293.

Lat. 39° 4' S., long. 105° 5' W., 2025 fathoms (Brazier).

		Loss on ignition after drying at 230° Fahr.,	
Portion soluble in Hydrochloric Acid = 76.20	}	Copper,	11.20
		Alumina,	large trace
		Ferric oxide,	1.00
		Calcium phosphate,	20.06
		Manganese oxide,	0.69
		Nickel,	37.61
		Cobalt,	good trace
		Calcium sulphate,	...
		Calcium carbonate,	0.70
		Magnesium carbonate,	4.21
Portion insoluble in Hydrochloric Acid = 12.60	}	Silica,	3.93
		Alumina,	8.00
		Ferric oxide,	2.21
		Lime,	0.80
		Magnesia,	0.78
		Silica,	0.11
			8.70
			100.00

NOTE.—Small irregular shaped nodules—average weight 65 grains—blackish appearance outside, grey inside, very light and friable.

131. MANGANESE NODULES.—Station 297.

Lat. 37° 29' S., long. 83° 7' W., 1775 fathoms (Brazier).

		Loss on ignition after drying at 230° Fahr.,	
Portion soluble in Hydrochloric Acid = 81.57	}	Copper,	11.30
		Alumina,	small trace
		Ferric oxide,	0.50
		Calcium phosphate,	28.48
		Manganese oxide,	good trace
		Nickel,	30.77
		Cobalt,	small trace
		Calcium sulphate,	small trace
		Calcium carbonate,	0.87
		Magnesium carbonate,	6.36
Portion insoluble in Hydrochloric Acid = 7.13	}	Silica,	4.39
		Alumina,	10.20
		Ferric oxide,	0.50
		Lime,	1.30
		Magnesia,	0.61
		Silica,	0.18
			4.54
			100.00

NOTE.—Small irregular shaped nodules, grey colour outside, black inside.