

THE VOYAGE OF H.M.S. CHALLENGER.

110. MANGANESE NODULES.—Station 274.

Lat. 7° 25' S., long. 152° 15' W., 2750 fathoms (Brazier).

		Loss on ignition after drying at 230° Fahr.,	
			12·60
Portion soluble in Hydrochloric Acid = 82·60	}	Copper,	0·79
		Alumina,	1·00
		Ferric oxide,	8·41
		Calcium phosphate,	1·35
		Manganese oxide,	51·46
		Nickel,	good trace
		Cobalt,	...
		Calcium sulphate,	0·59
		Calcium carbonate,	3·58
		Magnesium carbonate,	4·92
Portion insoluble in Hydrochloric Acid = 4·80	}	Silica,	10·50
		Alumina,	0·60
		Ferric oxide,	0·60
		Lime,	0·45
		Magnesia,	0·15
		Silica,	3·00
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			100·00

NOTE.—Portions of two nodules sawn through, so as to obtain a fair average.

111. MANGANESE NODULES (external portions).—Station 274.

Lat. 7° 25' S., long. 152° 15' W., 2750 fathoms (Brazier).

		Loss on ignition after drying at 230° Fahr.,	
			12·50
Portion soluble in Hydrochloric Acid = 82·90	}	Copper,	0·79
		Alumina,	0·30
		Ferric oxide,	11·97
		Calcium phosphate,	0·83
		Manganese oxide,	52·39
		Nickel,	good trace
		Cobalt,	...
		Calcium sulphate,	0·75
		Calcium carbonate,	3·95
		Magnesium carbonate,	2·12
Portion insoluble in Hydrochloric Acid = 4·60	}	Silica,	9·80
		Alumina,	0·56
		Ferric oxide,	0·94
		Lime,	0·34
		Magnesia,	0·11
		Silica,	2·65
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			100·00