. John Murray & Rev. A.F. Renard, Report on the Deep-Sea Deposits Collected During the Voyage of H.M.S. Challenge

120. Manganese Nodules.—Station 285.

Lat. 32° 36′ S., long. 137° 43′ W., 2375 fathoms (Brazier).

Loss on ignition after drying at 230° Fahr.,		12·90
Portion soluble in Hydrochloric Acid = 76·20	Copper,	good trace
	Alumina,	2·50
	Ferric oxide,	24·63
	Calcium phosphate,	good trace
	Manganese oxide,	36·54
	Nickel,	good trace
	Cobalt,	trace
	Calcium sulphate,	0·34
	Calcium carbonate,	1·86
	Magnesium carbonate,	1·13
	Silica,	9·20
Portion insoluble in Hydrochloric Acid = 10·90	Alumina,	1·94
	Ferric oxide,	0·72
	Lime,	0·56
	Magnesia,	0·10
	Silica,	7·58
		100·00

Note.—Small nodules, average weight 90 grains, dark brown colour outside, yellowish grey inside. Several taken as a whole for analysis.

121. Manganese Nodules.—Station 285.

Lat. 32° 36′ S., long. 137° 43′ W., 2375 fathoms (Brazier).

Loss on ignition after drying at 230° Fahr.,		9·25
Portion soluble in Hydrochloric Acid = 69·22	Copper,	trace
	Alumina,	7·42
	Ferric oxide,	11·64
	Calcium phosphate,	7·15
	Manganese oxide,	24·71
	Calcium sulphate,	0·73
	Calcium carbonate,	3·59
	Magnesium carbonate,	1·30
	Silica,	12·68
Portion insoluble in Hydrochloric Acid = 21·53	Alumina,	3·80
	Ferric oxide,	2·20
	Lime,	0·38
	Magnesia,	0·09
	Silica,	15·06
		100·00

http://19thcenturyscience.org/HMSC/HMSC-Reports/1891-DeepSeaDeposits/README.htm