

## 99. MANGANESE NODULE.—Station 160. Lat. 42° 42' S., long. 134° 10' E., 2600 fathoms (Brazier)

	Loss on ignition after drying at 230° Fahr.,	20·40
Portion soluble in Hydrochloric Acid = 70·30	{ Copper, . . . . .	good trace
	{ Alumina, . . . . .	2·00
	{ Ferric oxide, . . . . .	19·08
	{ Calcium phosphate, . . . . .	0·20
	{ Manganese oxide, . . . . .	32·48
	{ Nickel, . . . . .	good trace
	{ Cobalt, . . . . .	...
	{ Calcium sulphate, . . . . .	0·58
	{ Calcium carbonate, . . . . .	3·07
	{ Magnesium carbonate, . . . . .	1·72
Portion insoluble in Hydrochloric Acid = 9·30	{ Silica, . . . . .	11·17
	{ Alumina, . . . . .	0·45
	{ Ferric oxide, . . . . .	0·50
	{ Lime, . . . . .	0·35
	{ Magnesia, . . . . .	0·20
	{ Silica, . . . . .	7·80
		<hr/> 100·00

NOTE.—Irregular-shaped nodules.

## 100. MANGANESE NODULE (external portion).—Station 160. Lat. 42° 42' S., long. 134° 10' E., 2600 fathoms (Brazier).

	Loss on ignition after drying at 230° Fahr.,	11·00
Portion soluble in Hydrochloric Acid = 75·60	{ Copper, . . . . .	abundant trace
	{ Alumina, . . . . .	4·60
	{ Ferric oxide, . . . . .	16·70
	{ Calcium phosphate, . . . . .	mere trace
	{ Manganese oxide, . . . . .	39·32
	{ Calcium sulphate, . . . . .	0·58
	{ Magnesium carbonate, . . . . .	1·60
	{ Calcium carbonate, . . . . .	3·00
Portion insoluble in Hydrochloric Acid = 13·40	{ Silica, . . . . .	9·80
	{ Alumina, } . . . . .	1·00
	{ Ferric oxide, }	
	{ Lime, . . . . .	0·28
	{ Magnesia, . . . . .	0·12
	{ Silica, . . . . .	12·00
		<hr/> 100·00

## 101. MANGANESE NODULE (internal portion).—Station 160. Lat. 42° 42' S., long. 134° 10' E., 2600 fathoms (Brazier).

	Loss on ignition after drying at 230° Fahr.,	10·25
Portion soluble in Hydrochloric Acid = 73·72	{ Copper, . . . . .	abundant trace
	{ Alumina, . . . . .	1·80
	{ Ferric oxide, . . . . .	15·10
	{ Calcium phosphate, . . . . .	mere trace
	{ Manganese oxide, . . . . .	33·62
	{ Calcium sulphate, . . . . .	0·58
	{ Calcium carbonate, . . . . .	3·00
	{ Magnesium carbonate, . . . . .	3·02
	{ Silica, . . . . .	16·60
Portion insoluble in Hydrochloric Acid = 16·08	{ Alumina, . . . . .	2·10
	{ Ferric oxide, . . . . .	1·50
	{ Lime, . . . . .	0·40
	{ Magnesia, . . . . .	0·30
	{ Silica, . . . . .	11·73
		<hr/> 100·00