DREDGE . 15

Dredge 15

Dredge Sample Summary Sheet

Sample ID	Bulk CC	Layer CC	Pt & Au	Ree	OC	DPTS/TS	XRD	35mm Photo	Paleo	Archive
D15-1A	/						/			
D15-1B	/						/			
D15-3							/			
D15-4A	/		/	/			/			
4B		/	/	/			/			
4C		/	/	/			/			
4D		/	/	/			/			
4E					/		/			

D15 - made up the numbers

SAMPLE DESCRIPTION

Cruise Id: Tunes 6 ~~F11-90-CP~~ Size (cm): 20X13X 4½ Location: W. Slope of Aean-kan Guyo

Sample Id: D15-1 Weight (kg): 1.48 Depth (m):

Mn Crust Description

Surface Texture: Smooth
Botryoid Granular on bottom
Nodule

Mn Crust Thickness (mm):

Min: 10 Max: 38 Ave: 28

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1	10	38	28	Black, dense,
2				laminated,
3				slightly porous near
4				Top surface some alteration
5				some Phosphorite veins
6				most running ‖ to substrate outlining laminations

Tunes 6
D15-1

Comments and XRD Mineralogy:

Subsample N

D15-1A	CC, XRD	Bulk	Top crust (botryoidal surface)
	0-29	234.9g	
D15-1B	CC, XRD	Bulk	underside crust (granular surface)
	0-20mm	98.3g	

Substrate Description

Rock Type: Sedimentary hyaloclastite breccia
Light tan-beige

Description: Poorly sorted breccia composed mainly of hyaloclastite and phosphorite and a few misc. basalt clasts

Biology (?):

Described by: JW

Subsampled by: JW

SAMPLE DESCRIPTION

Cruise Id: Tunes 6 ~~F11-90-CP~~ cut Size (cm): 14½ x 7.8 x 5.3 Location: W. Slope of Aeankan Guyot

Sample Id: D15-2 Weight (kg): 0.85 Depth (m):

Mn Crust Description

Surface Texture: Smooth botryoids

Mn Crust Thickness (mm):

Min: 10 Max: 35 Ave: 28

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1	2	14	10	Reddish Black, sediment filled pores
2				altered
3	8	21	18	black dense
4				some micro-phosphorite
5				veins
6				

D15-2 Tunes 6

Comments and XRD Mineralogy:

Subsample No

Substrate Description

Rock Type: Basalt Grey

Description: sparcely (Lugs) vesicular basalt vesicules filled or lined with carbonate mud or sediment

Biology (?): encrusting forams

Described by: JW

Subsampled by:

SAMPLE DESCRIPTION

Cruise Id: Tunes 6 ~~F11-90-GP~~ Size (cm): 12½x5½x5 Location: W. Slope of Aeankan Guyot

Sample Id: D15-3 Weight (kg): 0.33 Depth (m):

Mn Crust Description

Surface Texture: Smooth Botryoids

Mn Crust Thickness (mm):

Min: 5 Max: 16 Ave: 10

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1	5	16	10	Black, abundant
2				sediment filled
3				pores some alteration
4				
5				
6				

Tunes 6
D15-3

Comments and XRD Mineralogy:

Subsample I

D15-3 XRD Substrate

Substrate Description

Rock Type: Mudstone Tan

Description: Bioturbated Mudstone "Peppered Mn oxide impregnations & Mn oxide lining borehales and carbonate mud filling them

Biology (?): encrusting forams

Described by: JW

Subsampled by: JW

SAMPLE DESCRIPTION

Cruise Id: Tunes 6 ~~F11-90-CP~~ Size (cm): cut 11½ x 10.7 x 6 Location: W. Slope of Aean-kan Guyo

Sample Id: D15-4 Weight (kg): 1.1 Depth (m):

Mn Crust Description

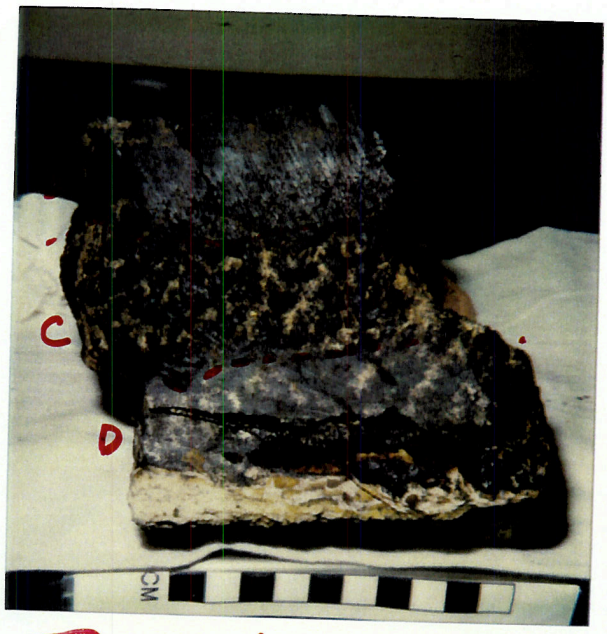
Surface Texture: Smooth Botryoids

Mn Crust Thickness (mm):

Min: 89 Max: 102 Ave: 92

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1	29	35	31	Black, porous ~~red alteration~~ esp. near top surface
2				
3	25	30	26	Black, sediment filling vugs
4				some alteration
5	34	47	35	Black, porous
6				phosphorite filling pores some alteration rare clast near bottom



Tunes 6
D15-4

Comments and XRD Mineralogy:

Subsam

D15-4A	XRD,	CC.	REE.	Pt	0-93 Bulk Crust
D15-4B	"	"	"	"	layer 0-33 m
D15-4C	"	"	"	"	" 30-62
D15-4D	"	"	"	"	" 62-95
D15-4E	"	OC	10.5g	Substrate	

D15-4A	0-93 mm	137 g
4B	0-33	99.7
4C	30-62	34.4g
4D	62-95	41g

REE juliet marlo appropriate intervals

Substrate Description

Rock Type: micritic Lms

cream

Description: Carbonate mudstone with some bioturbation Mn oxide peppered impregnation & lining burrows rare pebble sized clasts

Biology (?): few encrusting forams

Described by: J.W.

Subsampled by: JW