DREDGE 10

Dredge 10
Tunes 6

Dredge Sample Summary Sheet

Sample ID	Bulk CC	Layer CC	Pt & Au	Ree	OC	DPTS/TS	XRD	35mm Photo	Paleo	Archive
D10-1A	1		1	1		1	1			
D10-1B					1	1	1			
D10-3							1			
D10-5A						1	1			

made up #s

SAMPLE DESCRIPTION

Wodejebato/ Sylvania Guyot

Cruise Id: Tunes 6 Cut Size (cm): 14 X 13 X 8 Location: ~~V2-91-CP~~

Sample Id: D10-1 Weight (kg): 1.72 Depth (m):

Mn Crust Description

Surface Texture: eroded by currents smoothed botryoidal

Mn Crust Thickness (mm):

Min: 39 Max: 50 Ave: 40

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1	39	50	40	Black massive
2				porous some
3				alterations
4				
5	4 layers - upper 2-3mm in places			
6	eroded in others			

Tunes 6
D10-1

Comments and XRD Mineralogy:

Subs

D10-1A XRD CC, REE, Pt DPTS Bulk crust 0-49mm 101.4

D10-1B XRD, OC DPTS 42.7g Bulk substrate

Substrate Description

Rock Type: Sedimentary Breccia

Description: Poorly sorted subangular - subrounded basalt ~~and misc. clasts~~ in a pale green - yellow hyaloclastite matrix

Biology (?): some phosphorite cement

Described by: JW

CFA layer separates crust & substrate in places CFA veins

Subsampled by: JW

SAMPLE DESCRIPTION

Wodejebato/ Sylvania Guyot

Cut

Cruise Id: Tunes 6 Size (cm): 13.8 x 9 x 4.5 Location: ~~V2-91-CP~~

Sample Id: D10-2 Weight (kg): 0.775 Depth (m):

D10-2

Mn Crust Description

Surface Texture:

Surface broken off in dredging

Mn Crust Thickness (mm):

Min: 3 Max: 54 Ave: 25

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1	3	54	25	Black, Massive.
2		on		porous, micro cracks
3		side		some sediment
4				in pores
5				Some alteration
6				

Comments and XRD Mineralogy:

Subsample N

Substrate Description

Rock Type: Hyaloclastite Breccia Yellowgreen Grey

Description: Poorly sorted Subrounded basalt ~~and misc. clasts~~ in a hyaloclastite matrix. Some phosphorite

Biology (?): cement and clast minor Mn oxide impregnation

Described by: JW

CFA separate crust & subst.

Subsampled by:

SAMPLE DESCRIPTION

Wodejebato / Sylvania Guyot

Cruise Id: Tunes 6 Size (cm): cut 16 x 9 x 5 Location: ~~V2-91-CP~~

Sample Id: D10-3 Weight (kg): 1.24 Depth (m):

Mn Crust Description

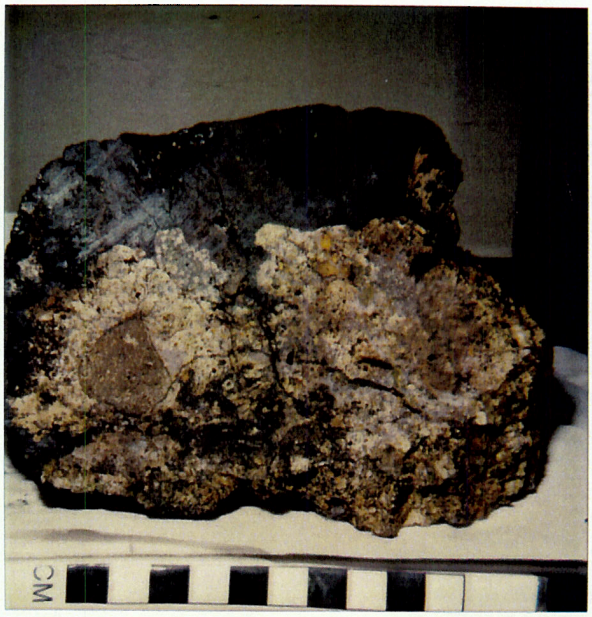
Surface Texture: smooth abraded surface - some missing in dredging?

Mn Crust Thickness (mm):

Min: 10 Max: 62 Ave: 33

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1	10	62	33	black, massive
2				porous, some
3				alteration
4				
5				
6				



Tunes 6
D10-3

Comments and XRD Mineralogy:

Subsam

D10-3 XRD subst.

Substrate Description

Rock Type: hyaloclastite breccia greenish yellow

Description: Poorly sorted subrounded basalt ~~& mn~~ clasts in a hyaloclastite matrix with phosphorite cement + clasts,

Biology (?): some Mn oxide impregnation

Described by: JW

Subsampled by: JW

SAMPLE DESCRIPTION

Wodejebato/ Sylvania Guyot

Cruise Id: Tunes 6 Size (cm): cut 17x10.4x56 Location: ~~V2-91-CP~~

Sample Id: D10-4 Weight (kg): 1.2 Depth (m):

Mn Crust Description

Surface Texture: Smooth abraded
Botryoids
Nodular

Mn Crust Thickness (mm):

Min: 6 Max: 65 Ave: 30

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1	6	65	30	Black, massive
2				porous some alteration
3				minor sediment
4				in pores
5				
6				

Tunes 6
D10-4

Comments and XRD Mineralogy:

Subsam

Substrate Description

Rock Type: Phosphatized
Hylaclastite breccia
Beige & green

Description: Poorly sorted
pebble sized clasts in phosphorite cement (major)
and Hyaloclastite
basalt or hyaloclastite maxtrix (minor)
some Mn oxide impregnation

Biology (?):

Described by: JW

Subsampled by:

SAMPLE DESCRIPTION

Wodejebato Sylvania Guyot

Cruise Id: Tunes 6 Cut Size (cm): 16x7x5 Location: ~~V2-91-CP~~

Sample Id: D10-5 Weight (kg): 1.2 Depth (m):

Mn Crust Description

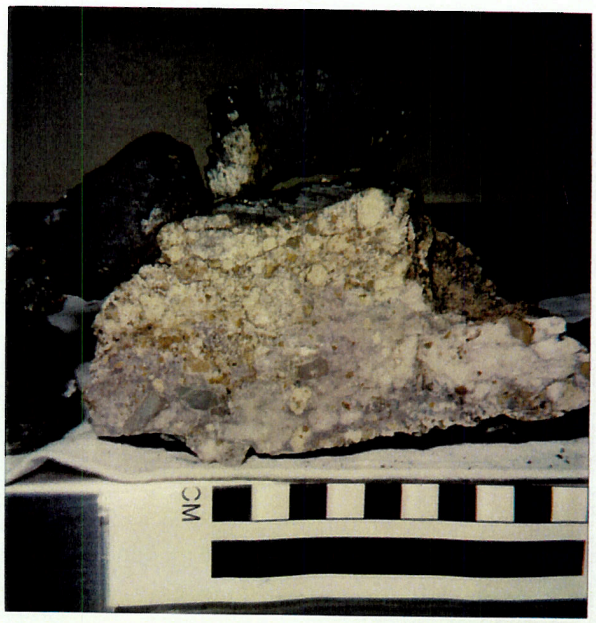
Surface Texture: Smooth abraded botryoid

Mn Crust Thickness (mm):

Min: 2 Max: Ave:

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1	2	27	25	Black, porous
2				massive
3				some alteration
4				
5				
6				



Tunes 6
D10-5

Comments and XRD Mineralogy:

Crust broke off substrate

Subsam

D10-5A DPTS, XRD Substrate

Substrate Description

Rock Type: Phosphatized Hyaloclastite Breccia

Biege - Yellowish green

Description: Poorly sorted basalt & misc. clasts in a hyaloclastite and phosphorite matrix

Biology (?): Impregnation of some Mn oxide

Described by: JW

Subsampled by: JW

Tunes 6
D10-5