DREDGE 9

Tunes 6
Dredge 9

Dredge Sample Summary Sheet

Sample ID	Bulk CC	Layer CC	Pt & Au	Ree	OC	DPTS/TS	XRD	35mm Photo	Paleo	Archive
D9-11	1						1			
D9-22A+B	1				1		2			
D9-24							1			
D9-25		2					2			

SAMPLE DESCRIPTION

Cruise Id: Tunes 6 ~~F11-90-CP~~ Size (cm): 16X 6½x 24 Location: N. Slope of Wodejebato/ Sylvania Guyot

Sample Id: D9-8 Weight (kg): 0.36 Depth (m):

Mn Crust Description

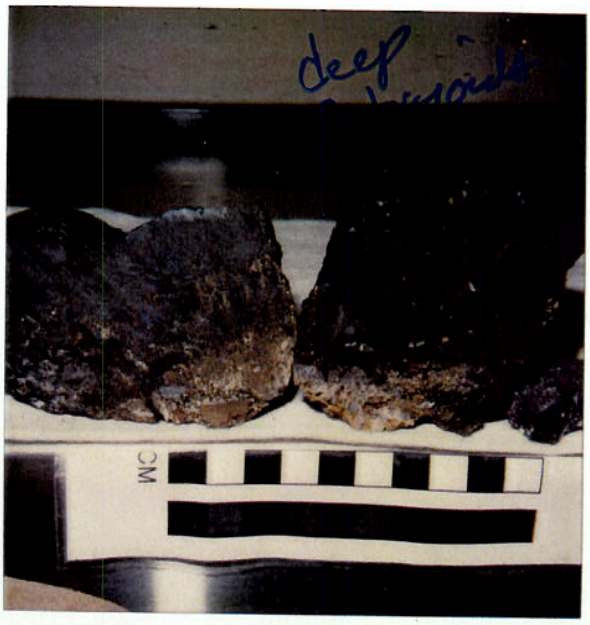
Surface Texture: Smooth abraded lizard skin deep Botryoidal

Mn Crust Thickness (mm):

Min: 36 Max: 65 Ave: 45

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1	36	65	45	Black, porous
2				altered
3				mud filling
4				vugs or pores
5				
6				



D9-8 Tunes 6

Comments and XRD Mineralogy:

Subsan

Substrate Description

Rock Type: Sedimentary breccia yellow brown

Description: Poorly sorted altered basalt pebble sized clasts in a hyaloclastite matrix Peppered Mn oxide

Biology (?): <1% encrusting forams

Described by: JW

Subsampled by:

SAMPLE DESCRIPTION

Cruise Id: ~~FT1-90-CP~~ Tunes 6 Size (cm): 11 × 8 × 2.7 Location: N. Slope of Wodejebato / Sylvania Guyot

Sample Id: D9-11 Weight (kg): 0.3 Depth (m): _____

Mn Crust Description

Surface Texture: botryoidal

Top + Bottom

Mn Crust Thickness (mm):

Min: 22 Max: 30 Ave: 26

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1		22		Black slightly porous
~~2~~				some alteration
~~3~~				mostly near top + bottom
~~4~~				Subfaces
28		4		mud filling
~~5~~				crevasses on bottom surface

brown, very porous

Tunes 6
D9-#11

Comments and XRD Mineralogy:

Probably side piece

Subsam

D9-11 CC Bulk 0-30 81.

XRD

Substrate Description

Rock Type: NONE

Description:

Biology (?): <1% encrusting forams

Described by: JW

Subsampled by: JW

SAMPLE DESCRIPTION

Cruise Id: ~~F11-90-CP~~ Tunes 6 Size (cm): 15X Location: N. Slope Wodejebato / Sylvania Guyot

Sample Id: D9-22 Weight (kg): 0.91 Depth (m):

Mn Crust Description

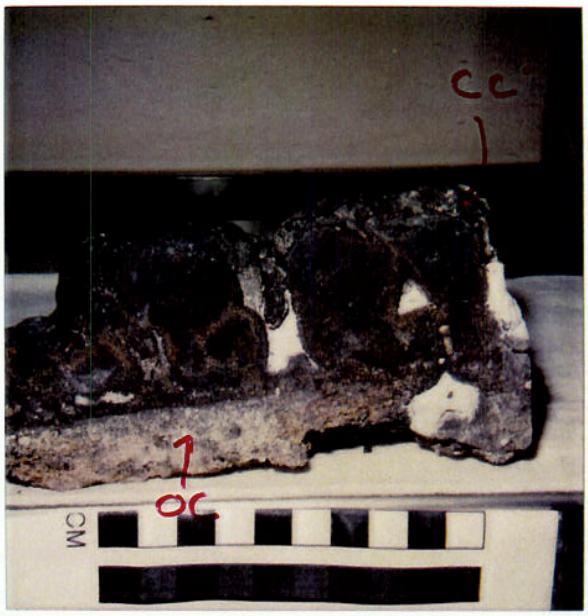
Surface Texture: Smooth, abraded tall botryoids with crevasses, top to bottom filled w/ white carbonate mud.

Mn Crust Thickness (mm):

Min: 5 Max: 41 Ave: 35

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1	5	41	35	Black porous to dense
2				alteration esp.
3				along surface edges
4				sediment + phosphatized sediment in pores
5				rare shell fragment
6				in Mn



TUNES 6
D9-22

Comments and XRD Mineralogy:

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	XRD		
D9-22A	CC	Bulk 0-41mm	25.8g
D9-22B	XRD	Substrate	9.8g
	OC		

Substrate Description

Rock Type: clastic LMS

Grey-cream

Description: Carbonate with rounded carbonate clasts and recrystallized calcite w/ moldic porosity; Partly phosphatized

Biology (?): encrusting forams

Described by: JW

Subsampled by: JW

SAMPLE DESCRIPTION

Cruise Id: ~~F11-90-CP~~ Tunes 6 cut Size (cm): 11.6 x 11.1 x 10 Location: N. Slope of Wodejebato/Sylvania Guyot

Sample Id: D9-23 Weight (kg): 1.26 Depth (m): _____

Mn Crust Description

Surface Texture: Smooth partially abraded basalt skin

Mn Crust Thickness (mm):

Min: 50 Max: 110 Ave: 70

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1	Crust		30	Black, porous
2				some alteration
3				minor sediment
4				in vugs
5	Nodule			more porous - Fe
6				stained

Comments and XRD Mineralogy:

Crust on Nodular Fe-Mn Concretion

Subsampl

Substrate Description

Rock Type: Sedimentary Breccia - v. little Tan

Description: Mn impregnated breccia with altered basalt clasts + hyaloclastite matrix + CFA cement

Biology (?):

Described by: JW

Subsampled by:

SAMPLE DESCRIPTION

Cruise Id: ~~EW-90-CP~~ Tunes 6 cut Size (cm): 8½ x 6 x 4.2 Location: N. Slope of Wodejebato / Sylvania Guyot

Sample Id: D9-24 Weight (kg): 0.18 Depth (m): _____

Mn Crust Description

Surface Texture: Smooth lizard skin

Mn Crust Thickness (mm):

Min: 34 Max: 48 Ave: 37

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1			20	Black, massive
2			18	Vugs filled w/ sediment in the center
3				
4				Some alteration
5				Fe stained
6				

D9-24 Tunes 6

Comments and XRD Mineralogy:

Subsa

D9-24 XRD subsamples

Substrate Description

Rock Type: Hyaloclastite breccia

Description: yellowish brown poorly sorted pebble sized clasts of basalt in a hyaloclastite matrix some Mn oxide impregnation

Biology (?):

Described by: JW

Subsampled by: JW

SAMPLE DESCRIPTION

Cruise Id: ~~F11-90-CP~~ Tunes 6 Cut Size (cm): 10 x 6 x 5.5? Location: N. Slope of Wodejebato/Sylvania Guyot

Sample Id: D9-25 Weight (kg): 0.33 Depth (m): _____

Mn Crust Description

Surface Texture: lizard skin

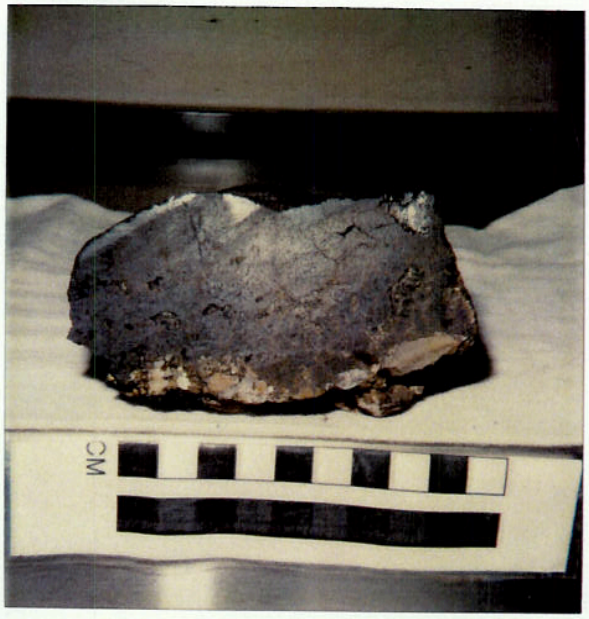
smooth some abrasion

Mn Crust Thickness (mm):

Min: 35 Max: 43 Ave: 40

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1			20	Black, massive
2			20	some wisps with sediment
3				altered,
4				porous, Fe
5				stained
6				



TUNES
D9-25

Comments and XRD Mineralogy:

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D9-25A XRD, CC outer layer 0-23 25g

-25B XRD, CC inner layer 23-43 9.3g

Substrate Description

Rock Type: Sedimentary hyaloclastite Breccia

Description: Poorly sorted pebble sized misc. clasts in a hyaloclastite matrix some alteration some Mn oxide impregnation

Biology (?):

Described by:

Subsampled by: JW