DREDGE 33

Dredge Sample Summary Sheet

Sample ID	Bulk CC	Layer CC	Pt & Au	Ree	OC	DPTS/TS	XRD	35mm Photo	Paleo	Archive
D33-1A	✓						✓			
1B					✓		✓			
1C					✓		✓			
1D							✓			
D33-2A	✓		✓	✓			✓			
-2B					✓		✓			
D33-3					✓		✓			

SAMPLE DESCRIPTION

South Slope of Missy Guyot of Marcus Wake Seamount

Cruise Id: Tunes 6 Size (cm): cut 15.4x9.7x9 Location: ~~V3-91-NP~~

Sample Id: D33-1 Weight (kg): 0.83 Depth (m):

Mn Crust Description

Surface Texture: Smooth, abraded botryoids

Mn Crust Thickness (mm):

Min: 2 Max: 11 Ave: 6

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1	2	11	6	Black
2				moderately porous
3				Some Alteration
4				Sediment in vugs or pores.
5				
6				

Comments and XRD Mineralogy:

Subsam

D33-1A	CC, XRD	Bulk Crust
D33-1B	XRD, OC	Substrate, Light
1C	XRD, OC	Substrate, dk bro
1D	XRD	Substrate, green

D33-1A	44g	0-10mm
-1B	14.0g	
-1C	73.6g	

Substrate Description

Rock Type: Mudstone Brown

Description: Bioturbated Mudstone Recrystallized Calcite filling burrows minor burrows lined w/ Mn oxide Top part impregnated about 20% Mn oxide

Biology (?): encrusting [illegible]

Described by: JW

Subsampled by: JW

SAMPLE DESCRIPTION

South Slope of Missy Guyot of Marcus Wake Seamount

Cruise Id: TUNES 6 Size (cm): cut 18 x 8 x 5.2 Location: ~~V3-91-NP~~

Sample Id: D33-2 Weight (kg): 0.97 Depth (m):

Mn Crust Description

Surface Texture: smooth to granular botryoids some abrasion

Mn Crust Thickness (mm):

Min: 2 Max: 14 Ave: 10

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1	2	14	10	Black, dense,
2				
3				
4				
5				
6				

Tunes 6
D33-2

Comments and XRD Mineralogy:

Subsam

D33-2A	CC, XRD, Pt, REE	Bulk crust
D33-2B	OC, XRD	Substrate

Substrate Description

Rock Type: Bioturbated Lms or Calcareous mudst Cream

D33-2A	61.0 g	0-10mm
D33-2B	42.5 g	

Description: Mn oxide peppered Impregnation & Mn lined burrows some bore holes filled with recrystallized calcite?

Biology (?):

Described by: JW

Subsampled by: JW

SAMPLE DESCRIPTION

S. Slope of Missy Guyot of Marcus Wake Seamount

Cruise Id: Tunes 6 Cut Size (cm): 9x5.7x4.2 Location: ~~V3-91-NP~~

Sample Id: D33-3 Weight (kg): 0.21 Depth (m):

Mn Crust Description

Surface Texture: Smooth to granular mostly abraded Nodule

Mn Crust Thickness (mm):

Min: 4 Max: 10 Ave: 7

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1				Black, dense
2				to porous
3				Some alteration
4				esp. ~~Top~~
5				surfac
6				

D33-3 Tunes 6

Comments and XRD Mineralogy:

Sul

D33-3 XRD, DC Substrate 29.89

Substrate Description

Rock Type: Hyaloclastite mudstone? "Tuff" Pale yellowgreen

Description: Recrystallize Crystals? minor peppered Mn oxide impregnation

Biology (?):

Described by:

Subsampled by: JW