DREDGE 14

Tunes 6
Dredge 14

# Dredge Sample Summary Sheet

| Sample ID | Bulk CC | Layer CC | Pt & Au | Ree | OC | DPTS/TS | XRD | 35mm Photo | Paleo | Archive |
|---|---|---|---|---|---|---|---|---|---|---|
| D14-11 | 1 | | | | | | 1 | | | |
| D14-17A | 1 | | | | | | 1 | | | |
| D14-17B | | | | | 1 | | 1 | | | |
| D14-18 | | | | | | | 1 | | | |
| D14-19A | 1 | | 1 | 1 | | 1 | 1 | | | |

# SAMPLE DESCRIPTION

Cruise Id: Tunes 6 ~~Size~~ cut (cm): 9 x 5.7 x 4½ Location: ~~V2-91-CP~~ Aean-Kan Guyot

Sample Id: D14-11 Weight (kg): 0.24 Depth (m):

## Mn Crust Description

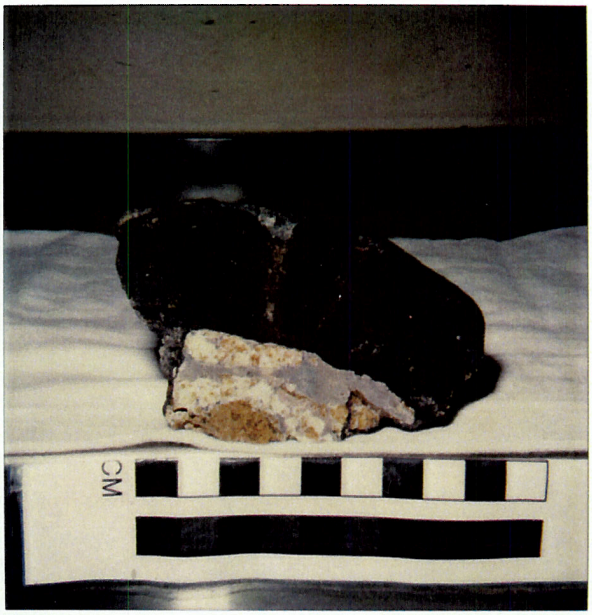
Surface Texture: Smooth

## Mn Crust Thickness (mm):

Min: 25 Max: 30 Ave: 28

## Outer to Inner Layers (mm)

| | Min | Max | Ave | Texture & Color |
|---|---|---|---|---|
| 1 | 25 | 30 | 28 | Black, massive |
| 2 | | | | porous |
| 3 | | | | some oxidation |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |




Tunes 6
D14-11

## Comments and XRD Mineralogy:

Sub

D14-11 XRD SC bulk crust
0-30mm 83g

## Substrate Description

Rock Type: Hyaloclastite breccia
Yellow-brown-Grey

Description: Poorly sorted altered orange-brown clasts in a phosphotized hyaloclastite matrix

Biology (?):

Described by: JW

Subsampled by: JW

# SAMPLE DESCRIPTION

Cruise Id: Tunes 6 Size (cm): cut 9.6x7x5.1 Location: Aean-Kan Guyot ~~V2-91-CP~~

Sample Id: D14-16 Weight (kg): 0.5 Depth (m):

## Mn Crust Description

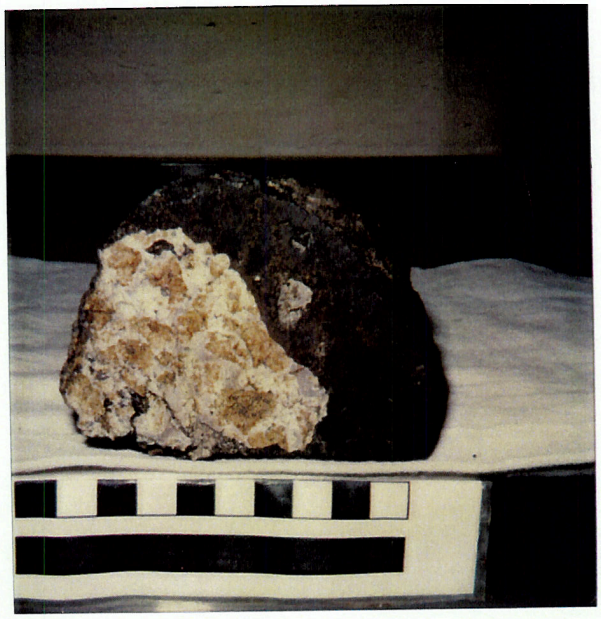
Surface Texture: Smooth

## Mn Crust Thickness (mm):

Min: 1 Max: 50 Ave: 25

## Outer to Inner Layers (mm)

| | Min | Max | Ave | Texture & Color |
|---|---|---|---|---|
| 1 | 1 | 50 | 25 | Black, Massive |
| 2 | | | | Porous, some |
| 3 | | | | oxidation |
| 4 | | | | rare phosphorite |
| 5 | | | | in fores and clasts in Mn |
| 6 | | | | |



Tunes 6
D14-16

## Comments and XRD Mineralogy:

Subsample

## Substrate Description

Rock Type: Phosphatized Hyaloclastite breccia

Description: Poorly sorted clasts in a phosphatized hyaloclastite matrix with some impregnation of Mn oxide

Biology (?): clasts = altered, brown basalt

Described by: JW

Subsampled by:

# SAMPLE DESCRIPTION

Cruise Id: Tunes 6 ~~Size~~ Cut (cm): 9½ x 7 x 4 Location: Aean-kan Guyot ~~V2-91-CP~~

Sample Id: D14-17 Weight (kg): 0.33 Depth (m):

Tunes 6
D14-17

## Mn Crust Description

Surface Texture: Smooth

## Mn Crust Thickness (mm):

Min: 6 Max: 15 Ave: 12

## Outer to Inner Layers (mm)

| | Min | Max | Ave | Texture & Color |
|---|---|---|---|---|
| 1 | 6 | 15 | 11 | black, porous |
| 2 | | | | some oxidation |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

## Comments and XRD Mineralogy:

Subsampl

0-15
D14-17A CC, XRD 61.4g bulk Crust
D14-17B XRD, OC 24.4g Substrate

## Substrate Description

Rock Type: mudstone
Tan
phosphatized?

Description: Bioturbated mudstone burrows filled w/ Mn oxide or lined w/ Mn oxide and filled w/ mud

Biology (?):

Described by:

Subsampled by:

JW

# SAMPLE DESCRIPTION

Cruise Id: Tunes 6 ~~Size~~ Cut (cm): estimated size 11 x 6 x 4 Location: ~~V2-91-CP~~ Aean-Kan Guyot

Sample Id: D14-18 Weight (kg): 0.27 Depth (m):

## Mn Crust Description

Surface Texture: Smooth

## Mn Crust Thickness (mm):

Top Min: 16 Max: 21 Ave: 19

bottom 9 13 10

## Outer to Inner Layers (mm)

| | Min | Max | Ave | Texture & Color |
|---|---|---|---|---|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

Tunes 6
D14-18

## Comments and XRD Mineralogy:

Sub

D14-18 XRD substrate

## Substrate Description

Rock Type: Mudstone

Tan

Description: Phosphatized? Bioturbated Mudstone Impregnation of Mn oxide Mn oxide filled mn. lined burrows

Biology (?): Mn. lined bedding planes & burrows are filled

Described by: w/ Meed J.W.

Subsampled by: JW

# SAMPLE DESCRIPTION

Cruise Id: Tunes 6 ~~Size~~ Cut (cm): Location: Aean-kan Guyot ~~V2-91-CP~~

Sample Id: D14-19 Weight (kg): 0.27 Depth (m):

## Mn Crust Description

Surface Texture: Smooth - lizard skin

## Mn Crust Thickness (mm):

Min: 23 Max: 30 Ave: 28

## Outer to Inner Layers (mm)

| | Min | Max | Ave | Texture & Color |
|---|---|---|---|---|
| 1 | 23 | 30 | 28 | Black, dense, to porous some alteration |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

D14-19 Tunes 6

## Comments and XRD Mineralogy:

Subsampl

D14-19A CC, XRD, Pt, REE Bulk Crust
DPTS 0-29 mm

should include CFA layer

## Substrate Description

Rock Type: Basalt Grey

Description: Thin cream phosphorite layer above grey vesicular basalt clast some vesicles filled w/ phosphorite

Biology (?): some reddish alteration some Mn oxide filling vesicles

Described by: JW

Subsampled by: JW

a small very vesicular piece of basalt is attach to the basalt clast ?