

DREDGES

CRUISE I.D.: F2-88-HW

DREDGE I.D.: D12

ROCKS RECOVERED: basalt, phosphorite, chert

APPROXIMATE RECOVERED WEIGHT (KG): 10

% RECOVERY WITH CRUST: \emptyset

NUMBER OF ROCKS SAVED: ALL

APPROXIMATE SAVED WEIGHT (KG): 10

TIME/DEPTH/LOCATION NOTES:

2950 - 2990 m

18° 37.4' - 155° 58.2'

to 18° 39.0' - 155° 58.2'

GENERAL DESCRIPTION OF RECOVERY:

weathered ^{vesicular} olivine basalt, 3 phosphorite nodules,
small pieces of cherty material.
Cherty?

SAMPLING OBJECTIVES:

• age date volcano, Mn-Quartz - pretty hopeless for both

SAMPLE DESCRIPTION

Cruise Id: F2-88-HW Size: 7x6x4 (cm) Location: _____

Sample Id: D12-2 Weight: <1 (kg) Depth: _____ (m)

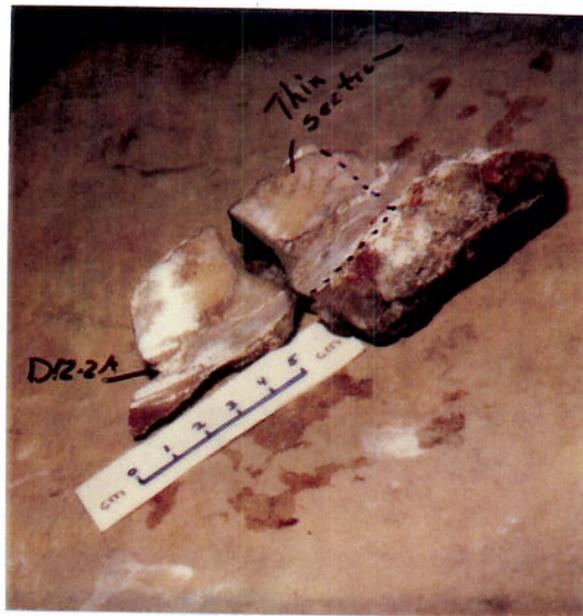
Mn Crust Description

Surface Texture: Botryoidal

Mn Crust Thickness (mm):
Min: patina Max: 2mm Ave: _____

Layers (Outer to Inner)(mm):

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



**F2-88-HW
D12-2**

Comments and XRD Mineralogy:

crust along one side of sample
 crust along one side of sample
 ivory colored calcareous powders sediment in fractures and along outside of sample
 This also is between the upper + lower phosphate rocks (xrd sample from here)

ANAL

Subsample Number	Analysis	Layer Thickness-Explan
D12-2A	Random mud content	XRD
D12-2B	Phosphorite xrd	XRD

Substrate Description

Rock Type: Phosphorite + volcaniclastic breccia w/

Description:
Light brown to medium brown phosphorite burrows filled w/ ivory colored phosphorite

Biology?: encrusting forams

*Replace at
paper &
photo
VLC
11-17-92*

Described By: JSM Subsampled By: JSM



Other side of sample
showing much texture

F2-88-HW
D12-2

SAMPLE DESCRIPTION

Cruise Id: F2-88-HW Size: largest piece 10 x 6 x 3 (cm) Location: _____

Sample Id: D12-3 Weight: < 1 (kg) Depth: _____ (m)

Mn Crust Description

Surface Texture: Substrate a few pieces

Dating on a few pieces

Mn Crust Thickness (mm):
Min: _____ Max: _____ Ave: _____

Layers (Outer to Inner)(mm):
Min Max Ave Texture & Color

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____



D12-3
F2-88-HW

Comments and XRD Mineralogy:

making on all pieces mostly
with mud

ANAL

coating on all pieces ivory
colored mud

Subsample Number Analysis Layer Thickness-Explanat

Substrate Description

Rock Type: Phosphorite some pieces
of phosphorite - rather like that found in
Mont. med. brown.

Description:

Phosphorite several pieces of phosphorite -
vary from light brown to dark, medium brown

Biology ?:

Described By: JSM

Subsampled By: JSM

SAMPLE DESCRIPTION

Cruise Id: F2-88-HW Size: 6.5x1x4.5 (cm) Location: _____

Sample Id: D12-4 Weight: <1kg (kg) Depth: _____ (m)

Mn Crust Description
Surface Texture: patina

Mn Crust Thickness (mm):
Min: _____ Max: _____ Ave: _____

Layers (Outer to Inner)(mm):
Min Max Ave Texture & Color

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____



D12-4
F2-88-HW

Comments and XRD Mineralogy:

ANAL

Subsample Number	Analysis	Layer Thickness-Explanation
D12-4	XRD	Phosphite

Substrate Description

Rock Type: _____

Description: phosphorite; flesh colored phosphite w/ ? infilling of the burrows

Biology ? : _____

Described By: JCM

Subsampled By: JCM

SAMPLE DESCRIPTION

3x2x1.5

Cruise Id: F2-88-HW Size: 3x2x1.5 (cm) Location: _____

Sample Id: D12-5 Weight: <1 (kg) Depth: _____ (m)

D12-5

<1

Mn Crust Description

Surface Texture: _____

Mn Crust Thickness (mm):
 Min: 0.5mm Max: 1mm Ave: _____

Layers (Outer to Inner)(mm):
 Min Max Ave Texture & Color

1. _____
2. _____
3. _____
4. _____
5. _____



D12-5
 F2-88-HW

Phos Study

Comments and XRD Mineralogy:
thin Mn coating on several pieces

Thin Mn coating on several pieces

ANALYSIS

Subsample Number	Analysis	Layer Thickness-Explanation
------------------	----------	-----------------------------

D12-5	XRD	MISC. SAMPLE
-------	-----	--------------

G 29190
 D12-5 35mm Ginny Smith
 Jumbled + powdered for Phos chate study
 most of sample left several

Substrate Description

Rock Type: Ivory colored feeling mud
 ivory colored chalky feeling mud

D12-5 - 35mm
 XRD, OG, Th, O, Sr, Fl, Cl, S, 35mm
 G. Smith

Description:
Looks like it should be calcareous but doesn't react w/ HCL; No bedding apparent a few small altered clasts

D12-5
 Thin section D12-5

D12-5-1 OG + XRD

Biology?: encrusting forams