DREDGE 59
S Rohan
Smt.

SAMPLE ID	Mn CHEM	Pt & Au	REE	Si Chem	P.Sect.	35mm Pho	Archive	Paleo	XRD				
D59-1													
D59-2	Lowes.				DPTS			✓	✓	Paleoc			
D59-3													
D59-4	✓												
D59-5													

SAMPLE DESCRIPTION

Id: T196 Size: [illegible] Location: S Rock Cut

Sample Id: CE1-1 Weight: 2 kg Depth: 1100 - 1150 m

Mn Crust Description

Surface Texture: botryoidal

Mn Crust Thickness:

Min: 5 mm Max: 12 mm Ave: 8 mm

Layers (Outer to Inner):

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

Mariana Islands

DS9-1

Comments and XRD Mineralogy:

Botryoidal massive Mn crust structure

ANALYSES

Substrate Description

Rock Type: Volcanic rock - Basalt

Description:

Upper part appears brecciated but Mn Stained

Described By: JSM Subsampled By:

Mariana Islands

Cruise I.D: TT-192

Sample Description

Sample I.D: Sta: D 54-6

Location: S. Tokyo Dep

Size: Weight:

Mn crust thickness:

Total: min: max: ave:

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture:

Internal structure:

layered:
laminated:
massive:
porous:
dendritic:
other:

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: Volcanic breccia

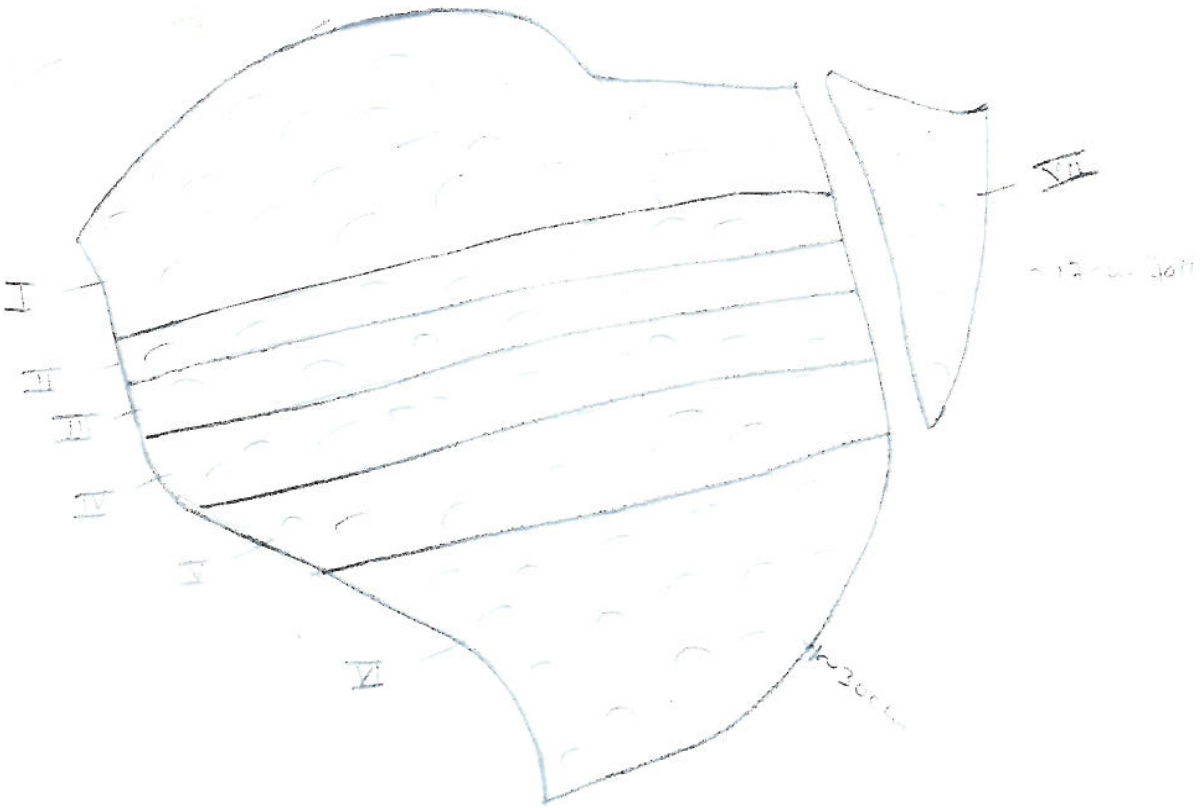
Description:

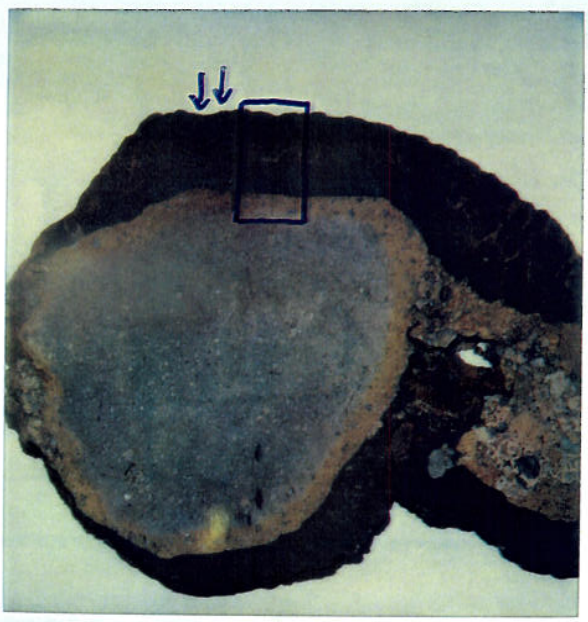
Mineralogy (XRD):

Mariana Is. cut into 7 slabs
D 59-2

Analyses and subsamples:

analysis:	analyst:
Slab IV -	M Morris 10-1
D59-2-A	
D59-2-B PTF	
D59-2-C	
D59-2-D OUTER LAYER	
D59-2-E	
D-59-2-E I	
D-59-2-I-J	
D-59-2-A-T BULK	
D-59-2-G	
D-59-2-F	



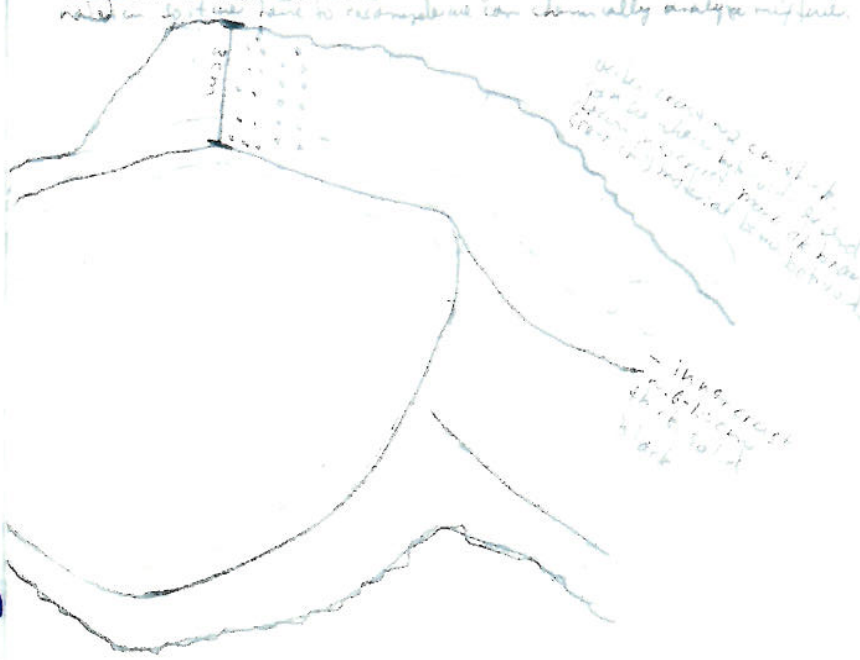


Mariana Is.
D59-2 III (slab III)

arrows point to where Lynn Ingram sampled for Sr/Nd isotope (9/87)
□ marks where Doubly PTS to be taken. (9/87)

9-9-87

All of slab 3 was sent to Dave Mann to impregnate & make doubly P.T.'s available for microprobe. Asked him to preserve slab as when Lynn sampled in case resampling is needed. Asked him also to send a set of rubbers of sample when impregnated in case we need to resample for chemically analyze inclusions.



Mariana Is.
D59-2 (slab) III

Mariana Is. Cut into 7 slabs
D59-2

SAMPLE DESCRIPTION

Id: T T 192 Size: 24.5 x 22.5 x 9 cm Location: S. Rota Int.

Sample Id: D59-3 Weight: 2 kg Depth: 1100 - 1120 m

Mn Crust Description

Surface Texture: Botryoidal

Mn Crust Thickness:

Min: 5mm Max: 12mm Ave: 10mm

Layers (Outer to Inner):

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

Comments and XRD Mineralogy:

Crust massive and columnar structures

Substrate Description

Rock Type: Tuffaceous Volcanic Breccia

Description:

Matrix supported upper 2cm brown color and Mn stained

Siliceous [illegible]

Mariana Islands

D59-3

ANALYSES

Described By: JSM Subsampled By:

Cruise I.D: ~~15-83-MW~~ Mariana Is.

Sample Description

Sample I.D: Sta: D59-4

Location: S. Korea Ridge

Size: [illegible] Weight: 2.1 kg (wet)

Depth: 1100-1150 m

Mn crust thickness:

Total: min: 1 mm max: 40 mm ave: [illegible]

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture: botryoidal

Internal structure:

layered: [illegible]
laminated: [illegible]
massive:
porous:
dendritic:
other:

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: Volcaniclastic Sandstone

Description: Some clasts highly altered [illegible]

Mineralogy (XRD):

Mariana Islands

D59-4

Analyses and subsamples:

analysis:	analyst:
Chemistry: Bulk crust A, marker, one phi or base	J. Hein/Gonneea 1/91
XRD: Bulk crust A, one fine fraction D59-4-1	

Mariana Is.
D59-4

Boxed area sent for bulk chem., 7/86

SAMPLE DESCRIPTION

Id: TT192 Size: _____ Location: S Sarigan Set

Sample Id: D59-5 Weight: _____ Depth: 1180 - 1470

Mn Crust Description

Surface Texture: Botryoidal

Mn Crust Thickness:

Min: _____ Max: 45mm Ave: _____

Layers (Outer to Inner):

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

Mariana Islands

D59-5

Comments and XRD Mineralogy:

Absence of fine crystals

Substrate Description

Rock Type: Volcaniclastic Breccias

Description:

Not much crystalline material

ANALYSES

Described By: JSM Subsampled By: