D 23 Flint

Flint Seamount

2855 - 2890 m

SAMPLE ID	*Mn CHEM	Pt & Au*	REE *	Si Chem*	P.Sect.	35mm Pho	Archive	Paleo	XRD				
D23-1								X	X	mud			
D23-2													
D23-2A													
D23-2B	Bulk												
D23-2C	Bulk												
D23-2D													
D23-2E													
D23-3	Bulk												

33 mm photo - not done

* All chemistry samples have XRD mineralogy done also

SAMPLE DESCRIPTION

Cruise Id: F7-87-SC Size: 50 cc Location: Flint Seamount

Sample Id: D23-1 Weight: 0.1 kg Depth: 2855-2890

Mn Crust Description

Surface Texture:

Mn Crust Thickness:

Min: Max: Ave:

Layers (Outer to Inner):

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

Comments and XRD Mineralogy:

Substrate Description

Rock Type: Silty mud (Hemipelagic mud)

Description:

Tan Mud scraped off bottom of large Rock sample. 3 times that amount of sample on the rock.

Terrigenous Mud

ANALYSES

Subsample & Type	Analysis	Weight
	XRD	
	Paleo	

Described By:

Subsampled By:

SAMPLE DESCRIPTION

Cruise Id: F7-87-SC Size: 40 x 33 x 27 Location: Flint Seamount

Sample Id: D23-2B Weight: ~45 kg Depth: 2855-2890

Mn Crust Description

Surface Texture: Smooth Lizard Skin on Top
Coarsely granular on Sides + Bottom

Mn Crust Thickness:
Min: 15 Max: 24 Ave: 20
1 18 10 granular

Layers (Outer to Inner):

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

Sampled

D23-2B

Comments and XRD Mineralogy:
outer layer laminated dk brown
inner layer massive " "

Substrate Description

Rock Type: Massive Basalt

Description:
Olivine Basalt w/ olivine → iddingsite, vugs & Fractures

Note D23-2B is [illegible] erratic

ANALYSI

Subsample & Type	Analysis	Weight
D23-2B	CC	Granular Bottom
	XRD	0-18 mm
D23-2a	glass	sand for probe A.D
" -2C	piece	for WR chem.

Described By:

Subsampled By:

2A is [illegible] large to cut

SAMPLE DESCRIPTION

Cruise Id: F7-87-SC Size: 100 X 75 X 75 Location: Flint Seamount

Sample Id: D23-2 Weight: 130 kg Depth: 2855 - 2890

Mn Crust Description

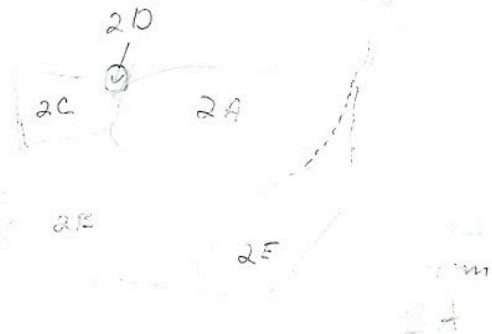
Surface Texture: Botryoidal, granular on bottom & in depressions

Mn Crust Thickness:
Min: 3 Max: 40? Ave: 20

Layers (Outer to Inner):

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

Large boulder broken up large pieces cemented by Mn, but all the same lithology except 2D = Granitic Rock, phonolite? rest in Basalt w/ feldspar needles -



Comments and XRD Mineralogy:

ANALYSES

Subsample & Type	Analysis	Weight
	XRD	
D23-2C	CC	20mm
Bulk		

Substrate Description

Rock Type: Basalt

Description:
2A large pillow
2B " pillow
2C Basalt Cobble
2D Granitic erratic
2E part of 2A broken off + bagged in 2 burlap bags - much fresh Glass + feldspar for dating -

Milk Glass [illegible] for T.S. (A.D.)

D23-2C

Described By: Subsampled By:

D23-2C

D23-2C

SAMPLE DESCRIPTION

Cruise Id: F7-87-SC Size: 33x24x19 Location: Flint Seamount

Sample Id: D23-3 Weight: 20 kg Depth: 2855-2890

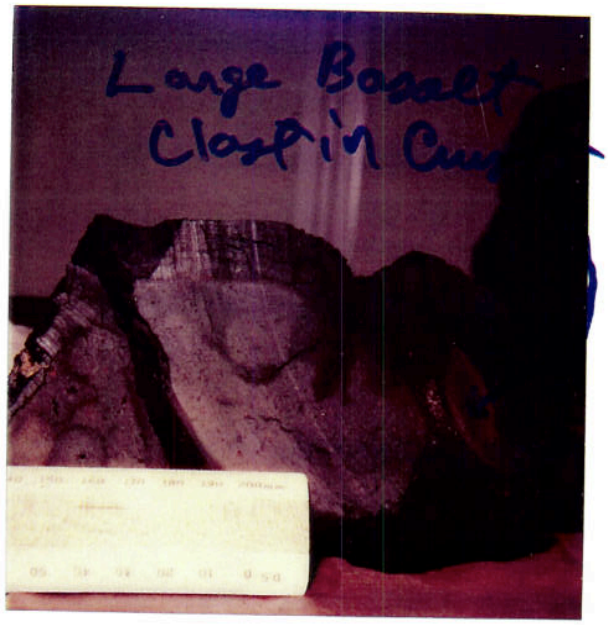
Mn Crust Description

Surface Texture: Botryoidal, subdued to smooth + granular

Mn Crust Thickness:
Min: 10 Max: 40 Ave: 20

Layers (Outer to Inner):

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



D23-3

Comments and XRD Mineralogy:

large basalt

Substrate Description

Rock Type: Basalt

Description:

D23-3A sample for thin and T.S. C.D.

ANALYSES

Subsample & Type	Analysis	Weight
	XRD	
Bulk	CC	18 mm Thick

D23-3

Described By:

Subsampled By: