Dredge 7

Dredge Sample Summary Sheet

Sample ID	Bulk CC	Layer CC	Pt & Au	Ree	OC	DPTS/TS	XRD	35mm Photo	Paleo	Archive
D7-1									X	
D7-2										
D7-3-1						X				
D7-4-1						X				
D7-5-1						X				
D7-6-1						X				
D7-7										
D7-8										

SAMPLE DESCRIPTION

Cruise Id: 91-AV-19/2 Size (cm): — Location: ~~V2-91-CP~~ NE KARIN Ridge

Sample Id: D7-1 Weight (kg): 0.09 Depth (m): 4870-3600

Mn Crust Description

Surface Texture:

Mn Crust Thickness (mm):

Min:_____ Max:_____ Ave:_____

Outer to Inner Layers (mm)

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

No photo

Comments and XRD Mineralogy:

Analyses

Subsample No.	Analysis	Layer Thick.	Wt.(g)
	½ U.S.SR		
	½ U.S.GS		

Substrate Description

Rock Type:

Description:

Brown Mud

Non Calcareous

Biology (?): ?

Described by: G.S.

Subsampled by: G.S.

SAMPLE DESCRIPTION

Cruise Id: 91-AV-19/2 Size (cm): 50-70 pebbles Location: V2-91-CP NE Karin Ridge

Sample Id: D7-2 Weight (kg): 2 Kg Depth (m): 4870-3100 m

Mn Crust Description

Surface Texture: Patina

Smooth, Black

Mn Crust Thickness (mm):

Min:_____ Max:_____ Ave:_____

Outer to Inner Layers (mm)

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

No Photo

Comments and XRD Mineralogy:

Analyses

Subsample No.	Analysis	Layer Thick.	Wt.(g)

Substrate Description

Rock Type: Basalt

Description: Talus

Sub Angular to Sub Rounded Basalt pebbles

½ to U.S.S.R

½ to U.S.G.S

Biology (?): None

Described by: J.S.

Subsampled by:

SAMPLE DESCRIPTION

Cruise Id: 91-AV-19/2 Size (cm): 17x12.5x.7 5x3x1.6 Location: ~~V2-91-CP~~ NE Karin Ridge

Sample Id: D7-3 Weight (kg): 6.6 Depth (m): 4870-3600

Mn Crust Description

Surface Texture: Smooth

Mn Crust Thickness (mm):

Min: Patina Max: Ave:

Outer to Inner Layers (mm)

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

TS

D7-S

D7-3

Comments and XRD Mineralogy:

Subsam

D7-3-1 T.S.

Substrate Description

Rock Type: Grey Basalt

Description: Aphanitic Basalt groundmass with mostly large and medium sized phenocrysts (35%) From minor to some vesicles

Biology (?): Few to minor altered phenocrysts minor to some alteration

Described by: In the ground mass VW

Subsampled by: AS

1/2 to U.S.S.R

1/2 to U.S.G.S

SAMPLE DESCRIPTION

Cruise Id: 91-AV-1912 Size (cm): 10 pieces 3 x 4 x 5 cm smallest 3½ x 5 x 7 cm largest Location: ~~V2-91-CP~~ NE Flank of Karin Ridge

Sample Id: D7-4 Weight (kg): 1 Kg Depth (m): 4870-3600m

Mn Crust Description

Surface Texture: Detina

Smooth to granular

eroded -

Mn Crust Thickness (mm):

Min:_____ Max:_____ Ave:_____

Outer to Inner Layers (mm)

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

D7-4

Comments and XRD Mineralogy:

Sul

D7-4-1 T S

Substrate Description

Rock Type: Basalt

pebbles + Cobbles

Description: Black Aphanetic Basalts

with altered

phenocrysts of plagioclase

- Vesicles from altered

plag.

Some cream colored mud filling →

No effervesence

½ to U.S.S.R

½ to U.S.G.S.

Biology (?): None

Described by: A.S

Subsampled by: A.S

SAMPLE DESCRIPTION

Cruise Id: 91-AV-19/2 Size (cm): 1 Cobble 4-5 Pebbles 2x3x4 4x13x14 cm Location: ~~V2-91-CP~~ NE Karin Ridge

Sample Id: D7-5 Weight (kg): 2.44 Depth (m): 4870-3600 m

Mn Crust Description

Surface Texture: Petina

Mn Crust Thickness (mm):

Min:_____ Max:_____ Ave:_____

Outer to Inner Layers (mm)

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

D7-5

Comments and XRD Mineralogy:

Sub

T.S. D7-5-1

Substrate Description

Rock Type: Basalt

Description: Similar Basalt to D7-4 w/ Red Alteration Rims Phenocrysts altered to orange Color

1/2 to U.S.S.R

1/2 to U.S.G.S

Biology (?): None

Described by: G.S.

Subsampled by: G.S.

SAMPLE DESCRIPTION

Cruise Id: 91-AV-19/2 Size (cm): 6X5X 4.5 ~~2.2 X 2.7 X 2.5~~ Location: NE Karin Ridge ~~V2-91-CP~~

Sample Id: D7-6 Weight (kg): Depth (m): 4870-3600

Mn Crust Description

Surface Texture: Smooth

Mn Crust Thickness (mm):

Min: Patina Max: Ave:

Outer to Inner Layers (mm)

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

D7-6

Comments and XRD Mineralogy:

Subs

D7-6-1 T.S.

Substrate Description

Rock Type: Grey or Brown Basalt

Description: Aphanitic Basalt containing from rare to minor amount of small plag phenocrysts rare vesicles

Biology (?): few with some alteration

Described by: JW

Subsampled by: JW

SAMPLE DESCRIPTION

Cruise Id: 91-AV-19/2 Size (cm): Pebbles Location: V2-91-CP

Sample Id: D7-7 Weight (kg): .317 Depth (m): 4870-3600

Mn Crust Description

Surface Texture: Smooth

Mn Crust Thickness (mm): Diameter

Min: 3 Max: 20 Ave: 6

NO PICTURE

Outer to Inner Layers (mm)

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

Comments and XRD Mineralogy:

all Nodules majority are flat shaped

Substrate Description

Rock Type: Most nodules w/out substrate, few with basalt

Description:

Biology (?):

Described by: J.W.

Analyses

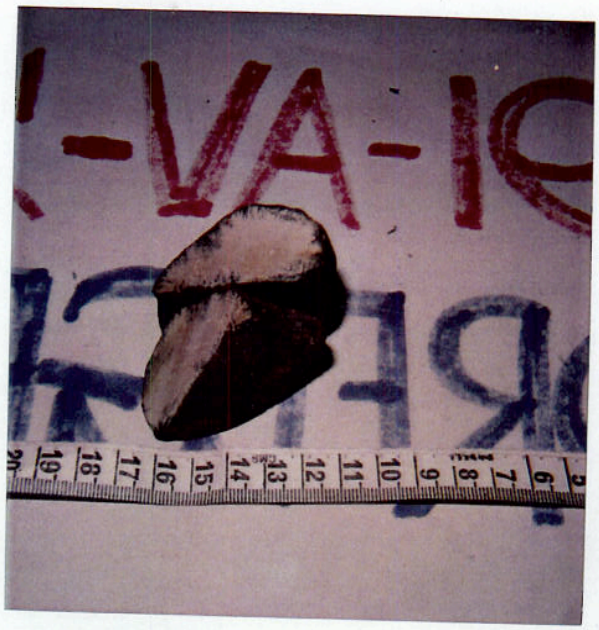
Subsample No.	Analysis	Layer Thick.	Wt.(g)
	1/2 USGS		
	1/2 USSR		

Subsampled by:

SAMPLE DESCRIPTION

Cruise Id: 91-AV-19/2 Size (cm): 2x5x6cm Location: V2-91-CP NE Karin Ridge

Sample Id: D7-8 Weight (kg): 0.13 Kg Depth (m): 4870-3600m



D7-8

Mn Crust Description

Surface Texture: petina - smooth eroded

Mn Crust Thickness (mm):

Min: petina Max: 2 Ave: 1

Outer to Inner Layers (mm)

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

Comments and XRD Mineralogy:

Mn impregnates phosphaterite. black. thickest crust on edge.

Su

Substrate Description

Rock Type: Phosphatized limestone ?

Description: cell coral? structures still visible - slight calcite present phosphate dirty cream. Mn dendrites

Biology (?): None

Described by:

Subsampled by:

D.S.