Dredge 11

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Dredge Sample Summary Sheet

Sample ID	Bulk CC	Layer CC	Pt & Au	Ree	OC	DPTS/TS	XRD	35mm Photo	Paleo	Archive
D11-1-1A							X			
1B							X			
D11-1-2	X		X	X			X			
D11-1-3		X					X			
D11-2-1	X		X	X			X			
D11-2-2							X			
D11-2-3		X					X			
D11-3-1						X				
-2						X				
-3						X				
-4							X			
D11-4										

SAMPLE DESCRIPTION

Cruise Id: 91-AV-19/2 Size (cm): Cobble to Boulder Location: ~~V2-91-CP~~ North Flank Karin Ridge

Sample Id: D11-1 Weight (kg): 20 Depth (m): 3000-3400 m

Mn Crust Description

Surface Texture: Lizard skin to current smoothed Botryoids

Mn Crust Thickness (mm):

Min: .5 Max: 2.5 Ave: 1.0

Outer to Inner Layers (mm)

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

#1 AKRD 91-AV-19/2

D11-1

Comments and XRD Mineralogy:

Black - Dense with Lizard skin (splintery when broken)

Black - porous with current smoothed Botryoids

Substrate Description

Rock Type: Breccia / dark Brown to yellowish brown

Description: Brown Highly Altered Breccia w/ pebble to cobble basalt clasts - gray to brown Plagioclase crystals, CFA lenses, phillipsite cement & Sandy

Biology (?): Volcaniclastic matrix

Subsa

D11-1-1A	XRD	Bulk substrate	(See photo)
B	XRD	Plag	
D11-1-2	CC Pt, REE	0-10mm	(154 g
	XRD	Bulk	
D11-1-3	surface Scrape		5.1g
	XRD		

Described by: A.S.

Subsampled by:

91-AV-19/2

D11-1 Surface texture

SAMPLE DESCRIPTION

, boulders to cobbles

Cruise Id: 91-AV-19/2 Size (cm): 48 x 40 x 18.5 / 5.8 x 4.8 x 2.8 Location: V2-91-CP

Sample Id: D11-2 Weight (kg): 140 Depth (m): 3000-3400

Mn Crust Description

Surface Texture: Current Smoothed Botryoidal, polished, lizard skin, granular,

Mn Crust Thickness (mm):

Min: 2 Max: 22 Ave: 12

Outer to Inner Layers (mm)

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

Surface texture 91-AV-19/2 D11-2

Comments and XRD Mineralogy:

lizard skin crust is black & dense

Current Smooth botryoids are mostly porous

Subsamp

D11-2-1	CC, Pt, REE, XRD	Bulk	0-11 mm (90gm)
D11-2-2	XRD	Substrate	
D11-2-3	CC, XRD	Surface Scrape	

Substrate Description

Rock Type: Yellow-green Breccia

Description: Poorly consolidated Breccia with mostly green & brown small pebble to small cobble basalt clasts and small pebble sized slag in hyaloclastite matrix - basalt clasts dark brown

Biology (?): encrusting forams

Described by: JW

Subsampled by:

probably Phillipsite, Smectite, plagioclase

91-AV-1972

D11-2

SAMPLE DESCRIPTION

Cruise Id: 91-AV-1912 Size (cm): small to large cobble Location: V2-91-CP N. Flank Karin Ridge

Sample Id: D11-3 Weight (kg): 40 Depth (m): 3000 - 3400

D11-3

Mn Crust Description

Surface Texture: Patina ~~to~~, Lizard skin + current smoothed Botryoids

Mn Crust Thickness (mm):

Min: Patina Max: 19 Ave: 10

Outer to Inner Layers (mm)

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

Comments and XRD Mineralogy:

Lizard skin is Dense + Black, Current smoothed Bot. are porous. - Black

Substrate Description

Rock Type: Basalt clasts from Breccia's D11-1 primarily, but also D11-2

Description: Vesicular to Dense Dark grey Basalt with altered plagioclase. occasional phosphate void fill

Biology (?):

Subsampl

D11-3-1 T.S. } whole ½ USGS sample
D11-3-2 T.S. } sent for T.S.
D11-3-3 DPTS
D11-3-4 vug fill XRD (calcite?)

½ US GS
½ USSR

3 or 4 distinct Types

Described by: J.S.

Subsampled by: J.G.

D11-3 uncut } packed in one box
D11-3-3
D11-4

D8-4 D11-3 cut packed separately
D11-3-4

T.S.

D11-3

SAMPLE DESCRIPTION

Cruise Id: 91-AV-19/2 Size (cm): large pebble to small cobble Location: V2-91-CP N. Flank Komandorsky Rdg
Sample Id: D11-4 Weight (kg): < 1 Kg Depth (m): 3000-2400

Mn Crust Description

Surface Texture: Current smoothed w/ minor lizard skin

Mn Crust Thickness (mm):

Min: 7 Max: 18 Ave: 16

Outer to Inner Layers (mm)

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

NO Photo

Comments and XRD Mineralogy:

Misc. pieces of crust no substrate

Analyses

Subsample No.	Analysis	Layer Thick.	Wt.(g)
	½ USGS		
	½ USSR		

Substrate Description

Rock Type:

Description:

Biology (?):

Described by: D.S.

Subsampled by:

Packed w/ D11-3 & uncut D11-3-3