Dredge 10

Dredge Sample Summary Sheet

Sample ID	Bulk CC	Layer CC	Pt & Au	Ree	OC	DPTS/TS	XRD	35mm Photo	Paleo	Archive
D10-1-1					X		X		X	
D10-1-2							X			
D10-2-1							X			
D10-3										
D10-4							X			
[illegible]		X	X	X			X			
[illegible]		X	X	X			X			
[illegible]		X					X			

SAMPLE DESCRIPTION

Cruise Id: 91-AV-19 2 Size (cm): Boulder To Cobble, all fragments Location: V2-91-CP

Sample Id: D10-1 Weight (kg): 225 kg Depth (m): 3400-2960

Mn Crust Description

Surface Texture: Cement smooth, Lizard-skin, subdued botryoid, granular, polished

Mn Crust Thickness (mm):

Min: 5 Max: 30 Ave: 18

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1				1 Coal black
2				massive layer
3				
4				
5				
6				

D10-1

Comments and XRD Mineralogy:

Crust-Sub Cont. v. sharp, rarely gradational, but be thicker where fills lows

Sub:

Substrate Description

Rock Type: Mudstone

Description: Brown, poorly consolidated, bioturbated in places w/ yellowish to pale brown burrow fill - rarely bored w/ mn-fe oxide

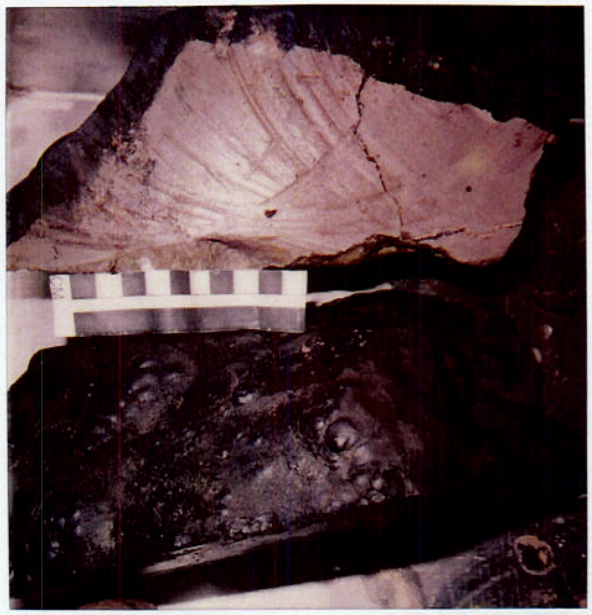
Biology (?): Living borings

D10-1-1	OC	Bulk subst (35 g)
	Paleo	XRD
D10-1-2	XRD	Yellow waxy burrow fill / Some carb.
D10-1-3	Surface scrape	(granular)
	XRD	(5.2g)
D10-1-4	CC, Pt, Ree	162 gm (granular)
	XRD	(0-15 gm)
D10-1-5	CC, Pt, Ree	(Lizard) (137.2) 0-15 mm
	XRD	
D10-1-6	Surface Scrape	5.5 gm
	XRD	

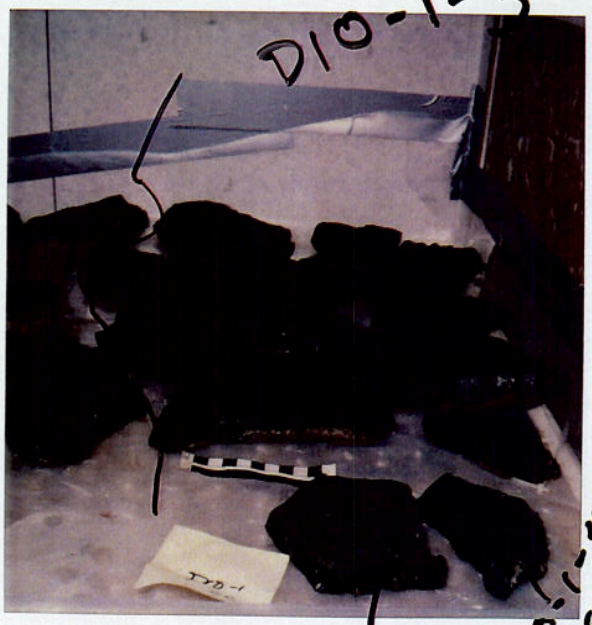
Described by: HEIN

Subsampled by: Hein

91-AV-1912

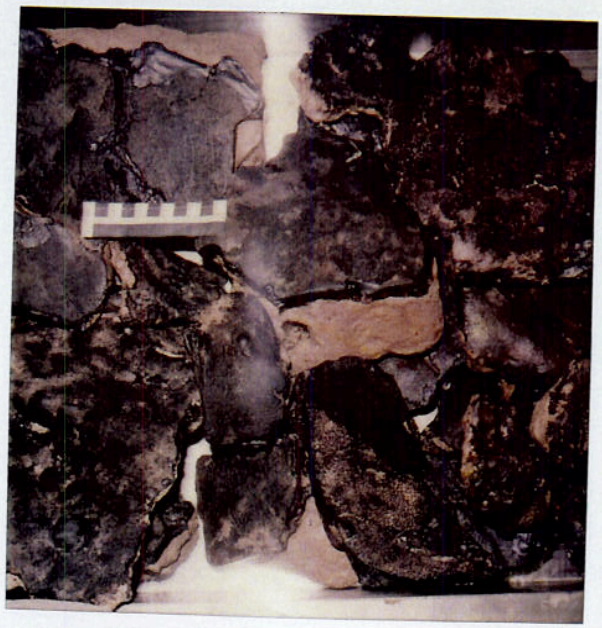


D10-1



D10-1-5

91-AV-1912



D10-1

SAMPLE DESCRIPTION

Photo ⊙ other Nodules

N Flank

Cruise Id: 91-AV-191 2 Size (cm): 9 x 13.5 x 2.5cm Location: ~~V2-91-CP~~ Kacin Ridge

Sample Id: D10-2 Weight (kg): 0.45kg Depth (m): 3400 - 2960

Mn Crust Description

Surface Texture: Lizard Skin on Uppermost surfaces, one side Current smoothed Botryoids, Bottom + side + crevesses - granular

Mn Crust Thickness (mm):

Min: 8 Max: 20 Ave: 10

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1	8	20	10	Black + Dense TOP
2				Bottom - porous
3				
4				
5				
6				

#1

Phosph D10-2

Comments and XRD Mineralogy:

Subsam

D10-2-1 XRD See photo journal fill

D10-2-2

Substrate Description

Rock Type: Mudstone

Description: Pale Brown mudstone with Mn Lined + Pale yellowish orange Mudstone filled Boring

Biology (?): None

Described by: J.S.

Subsampled by: Stein

SAMPLE DESCRIPTION

Cruise Id: 91-AV-1912 Size (cm): Nodules 2.5x3.6x5 cm 4.1x12.5x13.0 cm Location: ~~V2-91-~~CP North Flank Karin Ridge

Sample Id: D10-3 Weight (kg): 0.75 Depth (m): 3400-2960

Mn Crust Description

Surface Texture: Lizard Skin on Top with current smoothed Botryoids on the sides + Bottom

Mn Crust Thickness (mm):

Min: 4 Max: 10 Ave: 6

Outer to Inner Layers (mm)

		Min	Max	Ave	Texture & Color
#1 Nodule	1	5	10	5	Black - mostly dense with mud filled pores
2	2	4	10	10 Top 4 Bot.	Black Dense Top Porous - Bottom
3	3	5	8	5	Black Dense
	4				
	5				
	6				

91-AV-1212
D10-3

Comments and XRD Mineralogy:

All top surfaces are Lizard skin with sides + Bottom current smoothed to granular

Subsamp

Substrate Description

Rock Type: Mudstone

Description: Pale Brown Yellow (mudstone) w/ Mn filled borings

Biology (?): none

Described by: G.S.

Subsampled by:

SAMPLE DESCRIPTION

Cruise Id: 91-AV-19/2 Size (cm): 3.5 x 7 x 9 Location: V2-91-CP North Flank Kacin Ridge

Sample Id: D10-4 Weight (kg): 0.23 Depth (m): 3400-2960

Mn Crust Description

Surface Texture: Lizard skin with substrate controled Botryoids.

Mn Crust Thickness (mm):

Min: 10 Max: 15 Ave: 10

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1	10	15	10	Dense Black
2				
3				
4				
5				
6				

D10-4
91-AV-19/2

Comments and XRD Mineralogy:

Side or bottom is current smoothed - Botryoidal to granular.

Subsa

D10-4 XRD

Substrate Description

Rock Type: Mudstone?

Description: Mn Filled Borings in greyish yellow mudstone? Phosphorite?

Biology (?): None

Described by: A.S.

Subsampled by: A.S.