DREDGE 21

Dredge Sample Summary Sheet

Sample ID	Bulk CC	Layer CC	Pt & Au	Ree	OC	DPTS/TS	XRD	35mm Photo	Paleo	Archive
D21-1	X		X		X	X	2X			
D21-2									X	
D21-3										
D21-4									X	

SAMPLE DESCRIPTION

Cruise Id: F11-90-CP Size (cm): 10 X 7.7 X 4 / 21 X 9 X 8 Location: YAP J

Sample Id: D21-1 Weight (kg): 3.6 Depth (m): 2800-2780

Mn Crust Description

Surface Texture: Granular to Lizard Skin, small to tiny botroids

Mn Crust Thickness (mm):

Min: Patina Max: 8 Ave: 4

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1	Patina	7	4	Black massive
2				& dense minor red
3				iron stained
4				Thin Phosphorite layer between
5				crust & substrate
6				

D21-1

Comments and XRD Mineralogy:

Subsa

D21-1-1 } Bulk crust (0-7 mm) CC, Pt (37 gm)
D21-1-1 } XRD
D21-1-2 } OC (43.6 gm)
D21-1-2 } Basalt TS
D21-1-2 } XRD

Substrate Description

Rock Type: Vesicular Basalt Dark Brown

Description: vesicular basalt w/

all layers w/ vesicles
① outer layer, thin & devitried - reddish brown
② minor to thin black glassy rind
③ Dark Brown semivitreous basalt with small plag phenocrysts and some altered, red iron stained phenocrysts - can't tell - probably plag and amphibole or pyroxene, rare probably zeolite growing in vesicule, minor iron staining in vesicles & the edges of the basalt, rare phosphorite filling in vesicules & minor amount in fractures, only a few fractures in rock

90% USGS
10% HORDI

Biology (?): Encrusting forams (<1%)

Described by: JW

Subsampled by: JW/Yoon

SAMPLE DESCRIPTION

Cruise Id: F11-90-CP Size (cm): pebbles Location: YAP J

Sample Id: D21-2 Weight (kg): 0.17 Depth (m): 2800~2920

Mn Crust Description

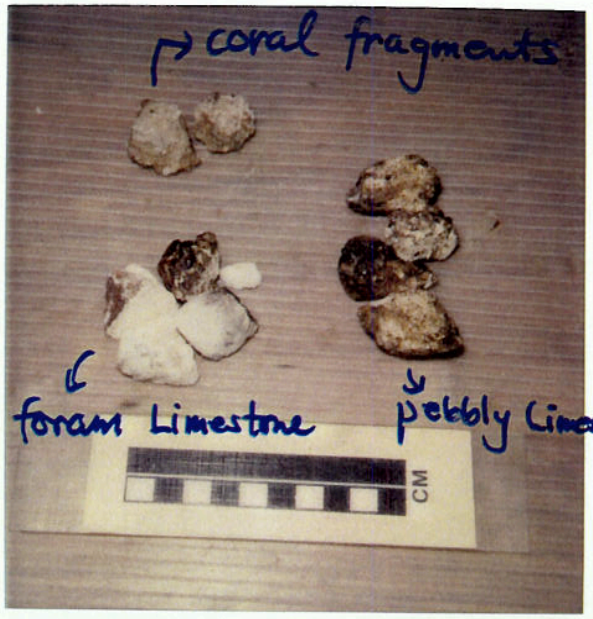
Surface Texture: Granular

Mn Crust Thickness (mm):

Min:_____ Max:_____ Ave: Patina

Outer to Inner Layers (mm)

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



D21-2

Comments and XRD Mineralogy:

Subs

D21-2A Paleo Foram Limestone

60% USGS
40% MORD

Substrate Description

Rock Type: Limestone

(1. pebbly limestone ; 2. foraminiferal limestone ; 3. coral fragments)

Description:

- clasts in pebbly limestone are mainly altered basalt fragments

Biology (?):

Described by: Yoon

Subsampled by:

SAMPLE DESCRIPTION

Cruise Id: F11-90-CP Size (cm): 5.5 x 3.5 x 3 ~2x1.5x1.5 Location: YAP J

Sample Id: D21-3 Weight (kg): 0.145 Depth (m): 2800 - 2700m

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				

D21-3

Comments and XRD Mineralogy:

Sub

Substrate Description

Rock Type: Pumice pebbles and a sponge piece

Description: glassy and vesicular

Biology (?):

Described by: Yoon

Subsampled by:

SAMPLE DESCRIPTION

Cruise Id: F11-90-CP Size (cm): 1 large bag (9x15) Location: YAP J

Sample Id: D21-4 Weight (kg): 7 Depth (m): 2800-2780

Mn Crust Description

Surface Texture:

Mn Crust Thickness (mm):

Min: Max: Ave:

NO PHOTO

Outer to Inner Layers (mm)

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

D21-4

Comments and XRD Mineralogy:

Analyses

Subsample No.	Analysis	Layer Thick.	Wt.(g)
D21-4	Paleo	(sample in Rose Bengal	

Substrate Description

Rock Type: Biege Foram Mud

Description:

Biology (?):

Described by: JW

Subsampled by: