Dredge 24

Tongai C

Dredge Sample Summary Sheet

Sample ID	Bulk CC	Layer CC	Pt & Au	Ree	OC	DPTS/TS	XRD	35mm Photo	Paleo	Archive
D20-1							x		x	
-2										
-3							x			
-4										
-5							x			
6					x	x	x			

SAMPLE DESCRIPTION

Cruise Id: F11-90-CP Size (cm): 20 large cobble to pebble Location: Pohnpei C

Sample Id: D24-1 Weight (kg): 5.5 Depth (m): 3120 - 3100

Mn Crust Description

Surface Texture: Granular with Botryoids

Mn Crust Thickness (mm):

Min: ? Max: Patina Ave:

Outer to Inner Layers (mm)

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

D24-1

Comments and XRD Mineralogy:

Su

D24-1 Paleo

XRD

Substrate Description

Rock Type: Limestone

clastic fossiliferous

(forams, Coral & shell fragments)

Description: Sandy Fossiliferous

Limestone Paleoproxy

→ Fe stained

Borings lined with

Mn.

50% [illegible]

50% [illegible]

Biology (?): None

Described by: G.S.

Subsampled by: G.S.

SAMPLE DESCRIPTION

Cruise Id: F11-90-CP Size (cm): 10 pebbles Location: Pahrp? C

Sample Id: D04-2 Weight (kg): 0.313 Depth (m): 3120 - 3107

Mn Crust Description

Surface Texture: none

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: Pumice

Description: Subrounded light to dark gray

Biology (?):

Described by: GS

Subsampled by:

SAMPLE DESCRIPTION

Cruise Id: F11-90-CP Size (cm): pebbles Location: Pohnpei C
Sample Id: D24-3 Weight (kg): <<1 Depth (m): 3120-3100

Mn Crust Description

Surface Texture: Smooth Patina

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)
D24-3-1	XRD		

60% USGS
40% HORDE

Substrate Description

Rock Type: Altered Basalt

Description: Brown, completely altered to clays - relict textures remain - was something phyric

Biology (?):

Described by: HEIN

Subsampled by: HEIN

SAMPLE DESCRIPTION

Cruise Id: F11-90-CP Size (cm): 20 pebbles Location: Tahnpai C

Sample Id: D24-4 Weight (kg): Depth (m): 3120 - 3100

Mn Crust Description

Surface Texture: Patina, smooth

Mn Crust Thickness (mm):

Min:_____ Max:_____ Ave:_____

Outer to Inner Layers (mm)

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

D24-4

Comments and XRD Mineralogy:

Subsar

Substrate Description

Rock Type:

Description: Recrystallized coral fragments

50% USGS
50% [illegible]

Biology (?): None

Described by: G C

Subsampled by:

SAMPLE DESCRIPTION

Cruise Id: F11-90-CP Size (cm): 8 pebbles Location: Pohnpei 6

Sample Id: D24-5 Weight (kg): 0.250 kg Depth (m): 3120 - 3150

Mn Crust Description

Surface Texture: Patina

smooth

Mn Crust Thickness (mm):

Min:_____ Max:_____ Ave:_____

Outer to Inner Layers (mm)

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

D24-5

Comments and XRD Mineralogy:

Subsam

D24-5-1 XRD

Substrate Description

Rock Type: Altered Basalt

Description: Subaerial altered Basalt - red with green phenocrysts

Biology (?): None

Described by: [illegible]

Subsampled by: Hein

SAMPLE DESCRIPTION

Cruise Id: F11-90-CP Size (cm): Pebbles Location: Pohnpei C
Sample Id: D24-6 Weight (kg): <1 Depth (m): 3120-3100

Mn Crust Description

Surface Texture: Patina, smooth

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:

largest pebble cut

Substrate Description

Rock Type: Basalt

Description: grey, altered olivine phyric(?) altered to Fe oxide

Biology (?):

Analyses

Subsample No.	Analysis	Layer Thick.	Wt.(g)
D24-6-1	OC, XRD TS		(13 gm)

Described by: HEIN

Subsampled by: HEIN