

Dredges 17 ~~and~~ 18

L9-84-CP

Sample Description

Cruise I.D.: ~~15-80-111~~

Sample I.D.: Sta: 13 D 17-1

Location: Seamount 720

Size: 14x10x7cm Weight: 0.3 kg

Depth = 1600 m

Mn crust thickness:

Total: min: 0 max: 2mm ave: 1mm

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture: rough + porous

Internal structure:

- layered: _____
- laminated: _____
- massive: _____
- porous: _____
- dendritic: _____
- other: _____

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Fe stains around burrows

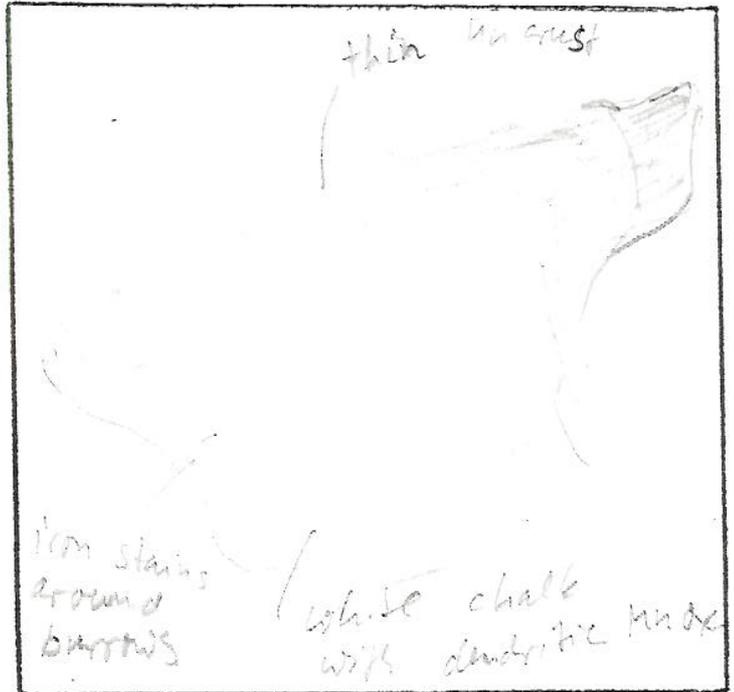
Substratum:

Rock type: soft white chalk

w/ Mn ox. dendrites

Description:

Mineralogy (XRD):



Analyses and subsamples:

analysis:

most of sample to

analyst:

Janet Raggaty

L9-84-CP

Sample Description

Cruise I.D.: ~~55-00-11~~

Sample I.D.: Sta: 13 D 17-2

Location: Seamount 720

Size: 10x10x4cm Weight: 0.2 kg

Depth = 1600 m

Mn crust thickness:

Total: min: <1mm max: 5mm ave: 3mm

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture: lumpy

Internal structure:

- layered: _____
- laminated: _____
- massive: _____
- porous: _____
- dendritic: _____
- other: _____

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

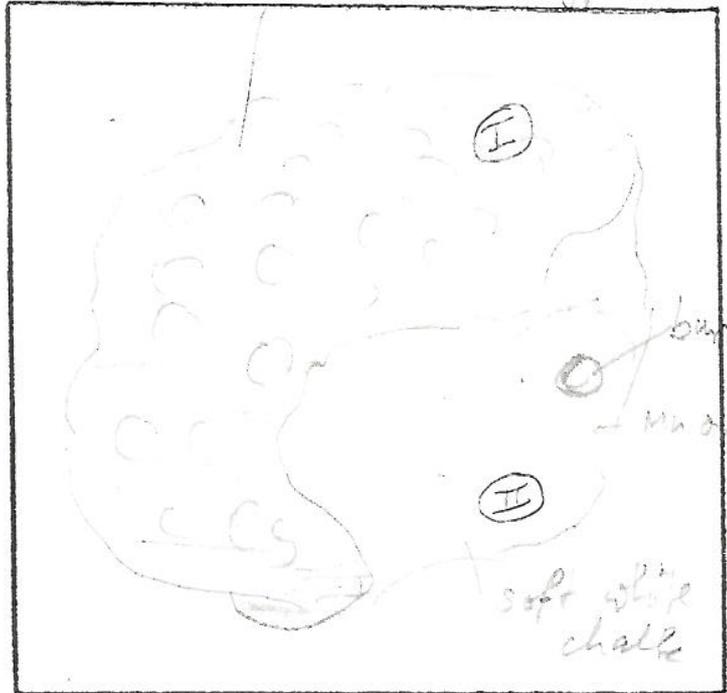
Substratum:

Rock type: soft white chalk with Mn dendrites

Description:

Mineralogy (XRD):

thin Mn crust



Analyses and subsamples:

analysis:	analyst:
1/2 of sample	Janet Haggerty
Sampled for chem	C. Daniel
D17-2-a - bulk Mn crust (0-5mm)	
2-b - substrate	

Sampled for XRD:	C. Daniel
D17-2-I - sfc. Mn 0-5mm	
D17-2-II - bulk substrate	

Double polished thin section analysis there

L9-84-CP

Sample Description

Cruise I.D.: ~~55-03-11W~~

Sample I.D.: Sta: 13 D 17-4

Location: Seamount 1720

Size: _____ Weight: < 0.1 kg

Depth = 1600 m

Mn crust thickness:

Total: min: _____ max: _____ ave: _____

Inner crust: min: _____ max: _____ ave: _____

Outer crust: min: _____ max: _____ ave: _____

Surface texture: _____

Internal structure: _____

- layered: _____
- laminated: _____
- massive: _____
- porous: _____
- dendritic: _____
- other: _____

Mineralogy (XRD): _____

Associated alteration, phosphorite, or hydrothermal deposits: _____

Substratum:

Rock type: soft white chalk

Description: _____

Mineralogy (XRD): _____

bag of rounded chalk
without Mn crust
Lithology same as
D17-2 and 17-3

Analyses and subsamples:

analysis:

analyst:

Sampled for chem
bulk chalk

Daniel

L9-84-CP

Sample Description

Cruise I.D.: ~~56-00-117~~

Sample I.D.: Sta: 13 D 17-5

Location: Seamount 720

Size: _____ Weight: 20.4 kg

Depth = 1600 m

Mn crust thickness:

Total: min: <1cm max: 3.5cm ave: 2cm

Inner crust: min: _____ max: _____ ave: _____

Outer crust: min: _____ max: _____ ave: _____

Surface texture: knobby

Internal structure:

- layered:
- laminated: _____
- massive: _____
- porous: _____
- dendritic: _____
- other: _____

Mineralogy (XRD): _____

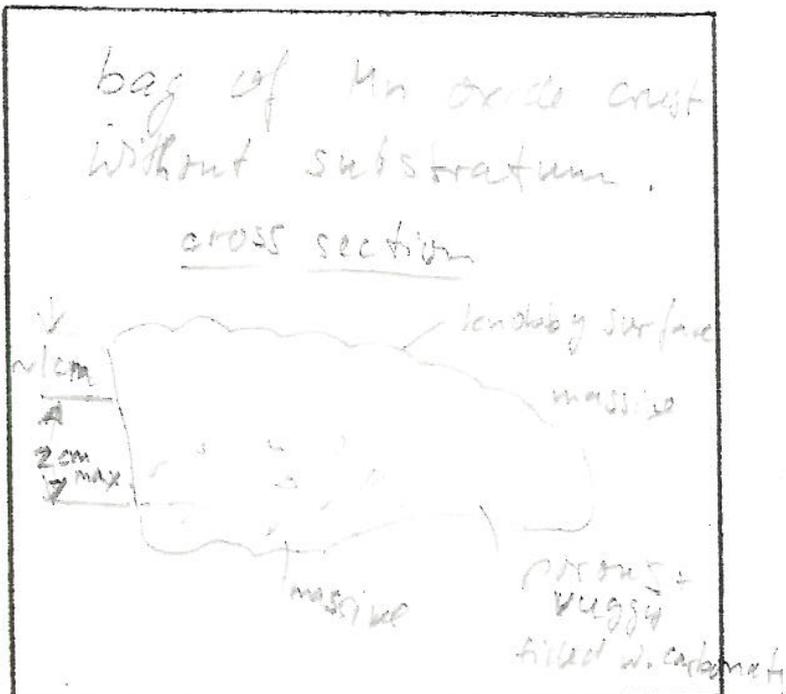
Associated alteration, phosphorite, or hydrothermal deposits: _____

Substratum:

Rock type: NONE

Description: _____

Mineralogy (XRD): _____



Analyses and subsamples:

analysis:

- 1 piece to _____
- 1 piece to _____
- 2 pieces to _____
- 1 piece for XRF _____

analyst:

- Henry Meyer
- Laurie M. Escobedo
- Janet Haggerty
- Tim Ling

Sampled for XRD:

DIF-S-I - bulk Mn 0-3.5cm

E-Dawson

L9-84-CP

Sample Description

Cruise I.D.: 55-00-11W

Sample I.D.: Sta: 13 D 17-6

Location: Seamount 720

Size: _____ Weight: ~ 0.4 kg

Depth = 1600 m

Mn crust thickness:

Total: min: 1 cm max: 3 cm ave: 2 cm

Inner crust: min: _____ max: _____ ave: _____

Outer crust: min: _____ max: _____ ave: _____

Surface texture: knobby, rough + porous

Internal structure:

- layered:
- laminated: _____
- massive:
- porous:
- dendritic: _____
- other: _____

Mineralogy (XRD):

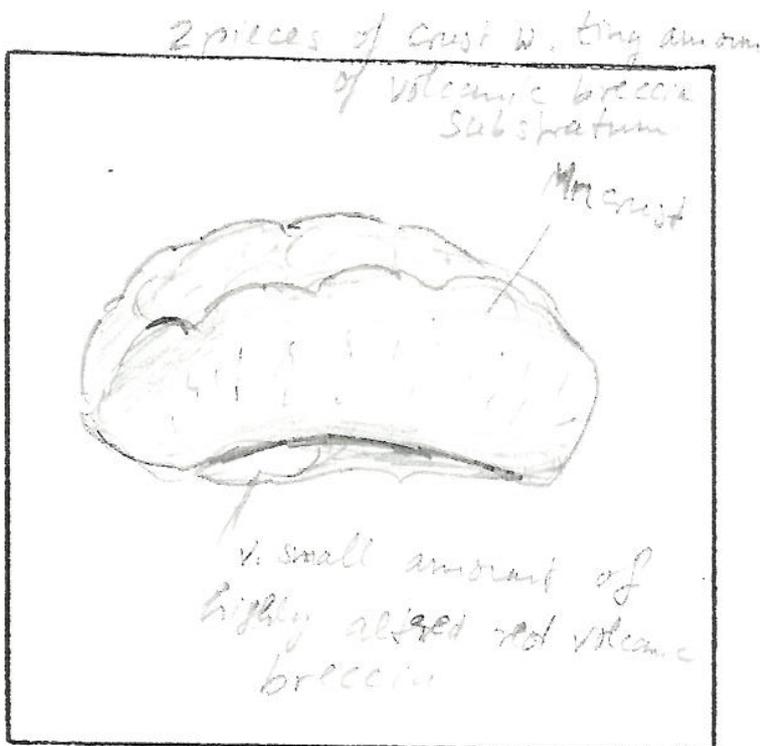
Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: volcanic breccia

Description: basalt clast, dark-red, extremely al. (al. amyg-daloidal + pyroclastic phosphates?) (< 3%)

Mineralogy (XRD):



Analyses and subsamples:

analysis:

analyst:

press. for T.S.

A. Daniel

sampled for bulk chem of Mn crust (0-30cm)

C. Daniel

sampled for XRD: D17-6-I-bulk Mn 0-3cm

C. Daniel

Doubly Polished Thin Section by van der Meer