# USGS DREDGE STATION LOG SE of Utirik seamount 780

SHIP / LEG: L9-84-CP

| | on bottom | off bottom |
|---|---|---|
| LATITUDE | 11°00.300 | 11°00.812 |
| LONGITUDE | 170°13.769 | 170°11.215 |

STATION NO. 10

LINE NO. Dredge 14

DAY/MONTH/YEAR

DATE 2/8/84

TYPE OF STORAGE (check one)

☐ DRY ☐ COLD ☐ FROZEN

Depth: 1800m

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

REMARKS: Total recovery: ~ 0.6 Kg : ~14 pieces of Mn crust without substratum ranging from 1 cm diameter up to 9 cm. Surface mostly rough and porous — underside typically smooth and shiny. Thickness varies from a few mm to 2 cm. Average: 1½ cm

NEBCO

L9-84-CP

Cruise I.D: ~~[illegible]~~

Sample Description

Sample I.D: Sta: 10 D 14-1

Location: SE of Utirik Seamount 7.0

Size: 10x8x1 cm Weight: 0.2 kg

Depth = 1800-1778 m

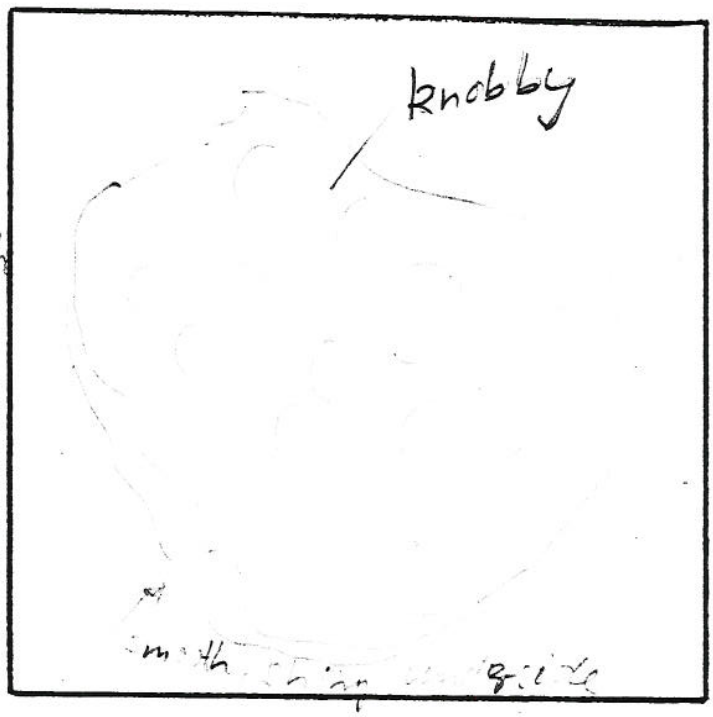
Mn crust thickness:

Total: min: 2.75 cm max: 2.5 cm ave: 2.0 cm

Inner crust: min: 0 max: 1 cm ave: 0.75 cm

Outer crust: min: 1 cm max: 2 cm ave: 1 cm

Surface texture: knobby & porous other side smooth




Internal structure:

layered: 2 layers

laminated:

massive: ✓

porous: ✓

dendritic:

other:

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: NONE

Description:

Mineralogy (XRD):

Analyses and subsamples:

| analysis: | analyst: |
|---|---|
| Sampled for chem. | C. Daniel |
| D14-1-a porous sfc (scraped off) | (0-5mm) |
| D14-1-b smooth bottom | (20-25mm) |
| Sampled for XRD: | C. Daniel |
| D14-1-I - composite 0-25mm | |

L9-84-CP

Sample Description

Cruise I.D: ~~[illegible]~~

Sample I.D: Sta: 10 D 14-2

Location: SE of Utirik seamount 780

Depth = 1800-1778 m

Size: _____ Weight: 0.1 kg

Mn crust thickness:

Total: min: 0.5 cm max: 1.5 cm ave: 1 cm

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

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

Surface texture: porous + rough, other side smooth abraded

Internal structure:

layered: ✓ 2

laminated:

massive: ✓

porous: ✓

dendritic:

other:

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: NONE

Description:

Mineralogy (XRD):

Mn crust

4 pieces 4 to 6 cm diameter — porous and rough surface on "top" side smooth, shiny (abraded) on underside. No substratum.

Analyses and subsamples:

| analysis: | analyst: |
|---|---|
| piece to | Janet Haggerty |
| " to | Lauren M (Scripps) |
| " to | Henry Meyer |
| Sampled for XRD: | C. Daniel |
| D14-2-I - Composite 0-15mm | |

L9-84-CP

Sample Description

Cruise I.D: ~~[illegible]~~

Sample I.D: Sta: 10 D 14-3

Location: SE of Utirik seamount 780

Depth = 1800 - 1778m

Si. _____ Weight: 0.1 kg

Mn crust thickness:

Total: min: 0.5 max: 1.5 cm ave: 1.0 cm

Inner crust: min: — max: — ave: —

Outer crust: min: — max: — ave: —

Surface texture: porous and smooth

Internal structure: —

layered: ✓
laminated:
massive: ✓
porous: ✓
dendritic:
other:

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type:

Description:

Mineralogy (XRD):

11 pieces of crust ranging from 1cm to 3cm in diameter — surface features like D14-1 and D14-2

Analyses and subsamples:

| analysis: | analyst: |
|---|---|
| piece for XRF | Tim Ling |
| Sampled for XRD: D14-3-I - Composite 0-15mm | C. Daniel |