BRIDGE 18
S. Johnston Is. Ridge

AMPLE ID	Mn CHEM	Pt & Au	REE	Si Chem	P.Sect.	35mm Pho	Archive	Paleo					
CD18-1						✓							
18-2						✓							
18-3	✓					✓							

Sample Description

Cruise I.D: F7-86-HW Sample I.D: Sta: 20 CD 18-1 Location: S. Johnston I. Ridge

17X11X5

Size: _____ Weight: 1.5 kg

Mn crust thickness:

Total: min: 4.5 max: 5.2 ave: 4.5

Inner crust: min: _____ max: _____ ave: 2.0

Outer crust: min: _____ max: _____ ave: 1.5

middle 1.0

Surface texture: smooth w/ microdots lizard skin

Internal structure:

layered: 3

laminated:

massive: 2

porous: middle

dendritic:

other:

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: Volcanic Breccia

Description: Vesicular Basalt Clasts w/ phosphorite in vesicles

less than 10 mm of substrate

Mineralogy (XRD):

CD18-1

Analyses and subsamples:

analysis:	analyst:
35 mm of Surface Texture	

CD18-1

Sample Description

Cruise I.D: F7-86-HW Sample I.D: Sta: 20 CD18-2 Location: S. Johnston Ridge

Size: 17x14x9 Weight: 3 kg

Mn crust thickness:

Total: min: 3.0 max: 4.0 ave: 3.7

Inner crust: min: — max: — ave: —

Outer crust: min: max: ave:

Surface texture: Smooth, bulbous

Internal structure: Outer Rim of bulbous knobs

layered:
laminated:
massive: X
porous:
dendritic:
other:

CD18-2

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: Volcanic Breccia, phosphorite

Description: gray to brownish pebbles of basalt, angular & subrounded in phosphorite + Mn cement; Thin layer of phosphorite separates crust + Breccia.

Mineralogy (XRD):

Analyses and subsamples:

analysis:	analyst:
1/2 to Ba Mineralogy	
35mm of Surface Texture	

Sample Description

Cruise I.D: F7-86-HW Sample I.D: Sta: 20 CD18-3 Location: S. Johnston Ridge

16 X 11 X 9

Size: _____ Weight: 0.6 kg

Mn crust thickness:

Total: min: 3.5 max: 4.5 ave: 4.0

Inner crust: min: _____ max: _____ ave: 1.5

Outer crust: min: _____ max: _____ ave: 2.5

Surface texture: Smooted Rippled

Internal structure: 2 inner layers (older gen.)

layered: 3 (+) Cut

laminated:

massive: 3

porous:

dendritic:

other:

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: NONE

Description:

Phosphorite layer occurs at bottom of sample, may be top of substrate or a layer within the crust.

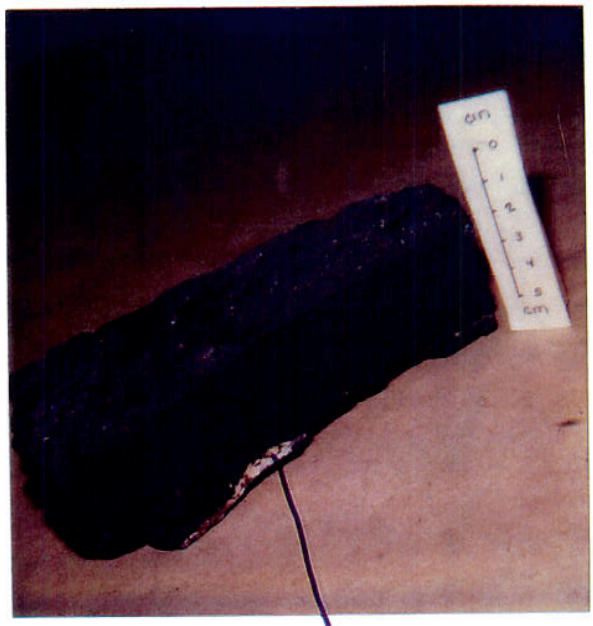
Mineralogy (XRD):

CD18-3

Analyses and subsamples:

analysis:	analyst:
35mm Photo of crust texture	
CD18-3 42mm Bulk	CC 190g
Chemistry sample Homogenized	other 1/2 of sample

CD18-3



CD18-3

Mn stains
in phosphorite