D36

Cruise I.D: ~~LS-83-NM~~ LS-85-NC

Sample Description

Sample I.D: Sta: D36-1

Location: Jackson Seamt. South slope, eastern

start: 42°25.66' -127°40.76'
end: 42°26.80' -127°40.66'
depth: 1978-1800m

Size: 2 pieces 1.18x16.5x7cm 2.15.5x11.5x7.5cm

Weight: 1. 2.8kg (sample is dry) 2. 1.4kg (sample is dry)

Mn crust thickness:

Total: min: 5mm max: 10mm ave: 6mm

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture: varies from sharp-botryoidal to smoothed-granular

Internal structure:

layered:
laminated:
massive:
porous: X, very porous, full of crud (rust)
dendritic:
other:

ineralogy (XRD):

sociated alteration, phosphorite, or ydrothermal deposits:

stratum:

ck type: basalt

scription: glassy, chilled margins

alogy (XRD):

Analyses and subsamples:

analysis:	analyst:
Hf + Li isotopes	Bulk

Sample Description

Cruise I.D: ~~RS-83-MW~~ LS-85-NC

Sample I.D: Sta: D36-2

Location: South slopes eastern Jackson Seamt

Size: slabbed into 4 slices ~16x15.5x7cm

Weight: 1.95 kg (sample is wet)

start: 42°25.66', -127°40.76'
end: 42°26.80', -127°40.66'
depth: 1978-1800

Mn crust thickness:

Total: min: Ø max: 30cm ave: 0.5cm

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture: nodular, kind of crenulated.

Internal structure:

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

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

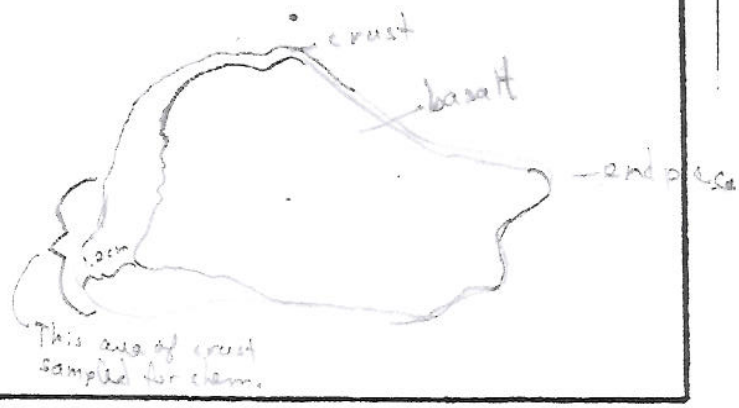
Substratum:

Rock type: Basalt

Description:

Mineralogy (XRD):

Save for Lynn Ingram for Paleo — (textural studies)



Analyses and subsamples:

analysis:	analyst:
Chemistry:	
- Manheim pkg	Floyd Brown - Reston
- Pt group	" " "
- Au analysis	Dave McKown - Denver
Thin section	
DPTS	Mann Petrographic 7-15-88 (OUEA)

D36-2
LS-85-NC
Gorda Ridge

7-23-98

scale in cm

area marked was sent for DPTS to Mann Petrographics, 7-15-98.

This is the thick middle slab

Cruise I.D: ~~B5-83-NW~~ LS-85-NC

Sample Description

Sample I.D: Sta: D36-3

Location: Juan de Fuca Ridge

Size: 2 pieces 1.6x5x2 cm 2.6x4x2 cm

Weight: 1.73 gms (sample is dry) 3.35 gms

start: 42°25.66', -127°40.76'

end: 42°26.80', -127°40.66'

depth: 1978-1800m

Mn crust thickness: no crust

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:

Analyses and subsamples

analysis:	analyst:

Substratum:

Rock type: breccia

Description: Mixture containing fragments of glass from sand through large pebble sizes

Mineralogy (XRD):

Sample Description

Cruise I.D: ~~LS-83-MW~~ LS-85-NC

Sample I.D: Sta: D36-4

Location: south slope, eastern Jackson Seamt

Size: 10x10x7.5cm Weight: 485 gms (sample: sand)

start: 42°25.66', -127°40.76'
end: 42°26.80', -127°40.65'
depth: 1978-1800m

Mn crust thickness:

Total: min: 4mm max: 20mm ave: 9mm

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture: Granular superimposed on botryoidal

Internal structure:

layered:
laminated:
massive:
porous: X, very rust filled
dendritic:
other:

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: basalt

Description: variably altered

Mineralogy (XRD):

Analyses and subsamples:

analysis:	analyst:

Sample Description

Cruise I.D: ~~LS-83-HW~~ LS-85-NC

Sample I.D: Sta: D36-5

Location: Jackson Seamt south slope, eastern

Size: broken 14.5x12.5x6.5cm Weight: 1.0 kg (sample is dry)

start: 42° 25.66', -127° 40.76'
end: 42° 26.80', -127° 40.66'
depth: 1978-1800 m

Mn crust thickness: mostly broken off

Total: min: 4 mm max: 11 mm ave: 8 mm

Inner crust: min: ____ max: ____ ave: ____

Outer crust: min: ____ max: ____ ave: ____

Surface texture: black granular superimposed on botryoidal (varying to smooth)

Internal structure:

layered:
laminated:
massive:
porous: X, full of rusty junk
dendritic:
other:

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: basalt

Description: aphanitic

Mineralogy (XRD):

LS-85-NC

D36-5

Analyses and subsamples:

analysis:	analyst: