D34

Sample Description

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

Sample I.D: Sta: D34-1

Location: President Jackson Seamounts

Size: 14.5x9x7.5 cm Weight: 1.0 kg (sample is cut)

Seamounts at approx. 42°32', 127°47'
and: 42°30.54', -127°48.38'
[illegible]

Mn crust thickness:

Total: min: max: Patina ave:

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture: granular

Internal structure:

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

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: basalt

Description: aphanitic, fresh, angular cobble of basalt

Mineralogy (XRD):

Analyses and subsamples:

analysis:	analyst:

Sample Description

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

Sample I.D: Sta: D34-2

Location: President Jackson Seamounts

Size: 15x12x10cm Weight: 1.9 kg (sample is dry)

seamounts at approx. 42°32', 127°47'
sp'd: 42°30.54', -127°48.33'
depth: 2482 - ? (1930 m wo) wo = wire out

Mn crust thickness:

Total: min: 9mm max: 13mm ave: 11mm

Inner crust: min: 4 max: 7mm ave: 6

Outer crust: min: 4 max: 5 ave: 5mm

Surface texture: smooth, brown

Internal structure:

layered:
laminated: x hard to follow exactly
massive:
porous: x very crudy
dendritic:
other:

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Crust has 2 layers outer being more vein rich

Substratum:

Rock type: glassy, aphanitic basalt

Description:

Mineralogy (XRD):

Analyses and subsamples:

analysis:	analyst:
D34-2 CC, XRD	50gm
Sample taken from top of sample	

Sample Description

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

Sample I.D: Sta: D34-3

Location: President Jackson Seamount

Size: 10.5x8x6cm Weight: 420 gms (sample is dry)

Seamount at approx. 42°32', 127°47'

End: 42°30.54', -127°48.38'

depth: 2482 - ? (1830 m (w o)) wo = wire out

Mn crust thickness:

Total: min: 10mm max: 14mm ave: 13mm

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture:

Internal structure:

layered:
laminated:
massive:
porous: Y, crusty, crumbly
dendritic:
other:

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: basalt

Description: aphanitic, glassy, a small amount of molten hyaloclastic occurs in some places around the edges of the basalt, mostly on the bottom

Mineralogy (XRD):

Analyses and subsamples:

analysis:	analyst:

Sample Description

Cruise I.D: ~~25-83-MW~~ LS-85-NC

Sample I.D: Sta: D 34-4

Location: President Jackson seamount

Size: 13x9.5x7cm Weight: 700 gms

seamount at approx. 42°32', 127°47'
end: 42°30.54', -127°48.38'
depth: 2482.? (1830 m (wu)) wu = wire out

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:

Substratum:

Rock type: hyaloclastite

Description: sand to cobble sized volcanic glass fragments in an altered glass cement. Matrix supported

Mineralogy (XRD):

Anal[illegible]

analysis:

analyst:

Sample Description

Cruise I.D: ~~L5-83-NW~~ L5-85-NC

Sample I.D: Sta: D34-M5 ← my #

Location: President Jackson seamounts

Size: 3 pieces Weight: 1.1 kg (all 3 pieces, sample is dry)

Largest: 13x8x5.5 cm

seamounts at approx. 42°32', 127°47'

end: 42°30.54', -127°48.38'

depth: 2482 - (1830 m (wo)) wo = wire out

Mn crust thickness:

Total: min: 2mm max: 18mm ave: 11mm

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture: smooth to barely bumpy

Internal structure:

layered:

laminated:

massive:

porous: X, crumbly, crudy

dendritic:

other:

Mineralogy (XRD): some volcanic glass cemented by crust

L5-85-NC

D34-M5

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: basalt & pheripheral hyaloclastite

Description:

s

Mineralogy (XRD):

Analyses and subsamples:

analysis:	analyst:

Sample Description

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

Sample I.D: Sta: D34-MG my #

Location: President Jackson Seamount

Size: 17x14x7 Weight: 1.9 kg (sample is dry)

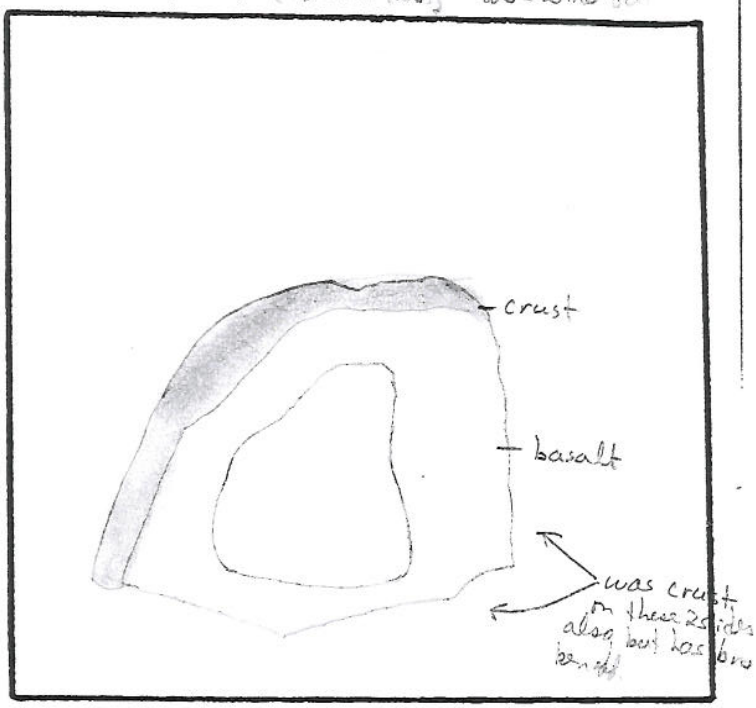
seamounts at approx. 42°32', 127°47'
end: 42°30.54', -127°48.38'
depth: 2482-? (1830m (wo)) wo = wire out

Mn crust thickness:

Total: min: ? max: 13mm? ave: 7 mm
(See note w/ drawing)

Inner crust: min: — max: — ave: —

Outer crust: min: — max: — ave: —



Surface texture: fairly smooth.

Internal structure:

layered:
laminated:
massive: X
porous: Somewhat. Color dk brown
dendritic:
other:

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: Basalt

Description: very glassy

Mineralogy (XRD):

Analyses and subsamples:

analysis:	analyst:
Chemistry:	
- Manheim pkg	Floyd Brown - Reston
- Pt group	" " "
- Au analysis	Dave McKown - Denver

L5-85-NC

34D-M6

Sample Description

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

Sample I.D: Sta: D34-M7 (my # initially was D34-1)

Location: President Jacks on seamounts

seamounts at approx. 42°32', 127°47'
end: 42°30.54', -127°48.38'
depth 2482 - (1830 m (wv)) wv = wire out

Size: 12x9.5x6.5 cm + 1 small piece Weight: 890 gms (of both pieces) (sample is dry)

Mn crust thickness:

Total: min: 3 max: ? ave: 5mm

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Crust is all broken off of substrate + only loose pieces remain

Surface texture: Smooth

Internal structure:

layered:
laminated:
massive:
porous: X, filled in silica sponge
dendritic:
other:

Mineralogy (XRD):

ssociated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: Glassy basalt

Description:

Mineralogy (XRD):

Analy

analysis:	analyst: