DREDGE 42
N.W. Spryo Ridge

SAMPLE ID	Mn CHEM	Pt & Au	REE	Si Chem	P.Sect.	35mm Pho	Archive	Paleo				
D42-1	Bulk	Bulk	Bulk									
D42-2	Bulk											
D42-3	Bulk			[illegible]								

Sample Description

Cruise I.D: L5-83-HW

Sample I.D: Sta: D

Location:

Size: Weight:

Mn crust thickness:

Total: min: max: 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: none

Rock type:

Description:

Mineralogy (XRD):

Analyses and subsamples:

analysis:	analyst:

Mariana Islands

Cruise I.D: TT-192

Sample Description

Sample I.D: Sta: D42-2

Location: Sueve Ridge

Depth: 2450-1500m

Size: [illegible] Weight: 450g

only [illegible]

Mn crust thickness:

Total: min: 2 max: 17 ave: [illegible]

Inner crust: min: — max: ave:

Outer crust: min: max: ave:

Surface texture: Porous

Internal structure:

layered:

laminated:

massive:

porous: ✓

dendritic:

other: [illegible]

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: Basalt

Description: [illegible]

Mineralogy (XRD):

MARIANA ISLANDS
D42-2

Analyses and subsamples:

analysis:	analyst:
XRD	
D42-2-I [illegible]	[illegible]
Chemistry	
D42-2-A [illegible]	E. Brown, Boston

Mariana Islands

Cruise I.D: TT-192

Sample Description

Sample I.D: Sta: D42-3

Location: Sysye Ridge

Depth: 2450-1500m

Size: 5 x 2 x 1 cm Weight: 1.42 kg

Mn crust thickness:

Total: min: 2 max: 16 ave: 12 mm

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture: Porous

Internal structure:

layered:
laminated:
massive:
porous: ✓
dendritic:
other: pores filled w/ sediment

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Fe oxidized worm tubes on surface

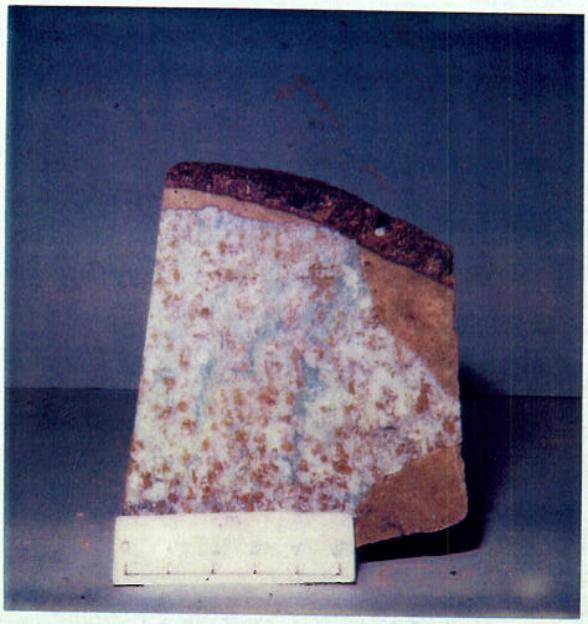
Substratum:

Rock type: Greenstone & Mudstone

Description: Large subangular sheared & altered greenstone w/ numerous edifices filled w/ Fe oxides in a yellow-brown well indurated, rich mudstone that is peppered w/ Mn

Mudstone has bandlike of Mn

Mineralogy (XRD):

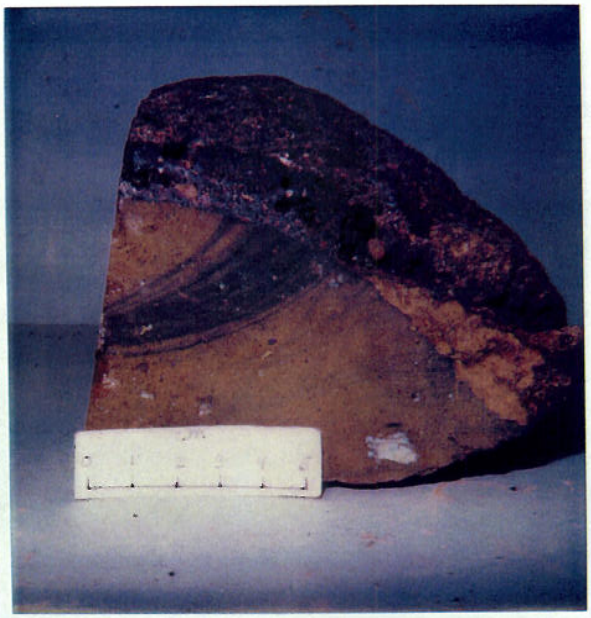


MARIANA ISLANDS

D42-3 side view

Analyses and subsamples:

analysis:	analyst:
XRD	C. Fleishman
D42-3-I bulk Mn	
" II bulk mudstone	
" III " greenstone	
Chemistry:	
D42-3-A Bulk Mn - Manhemsky	F. Brown Reston
D42-3-B " mudstone - major silicates	
Mudstone for PALEO	



MARIANA ISLANDS
D42-3
end view