

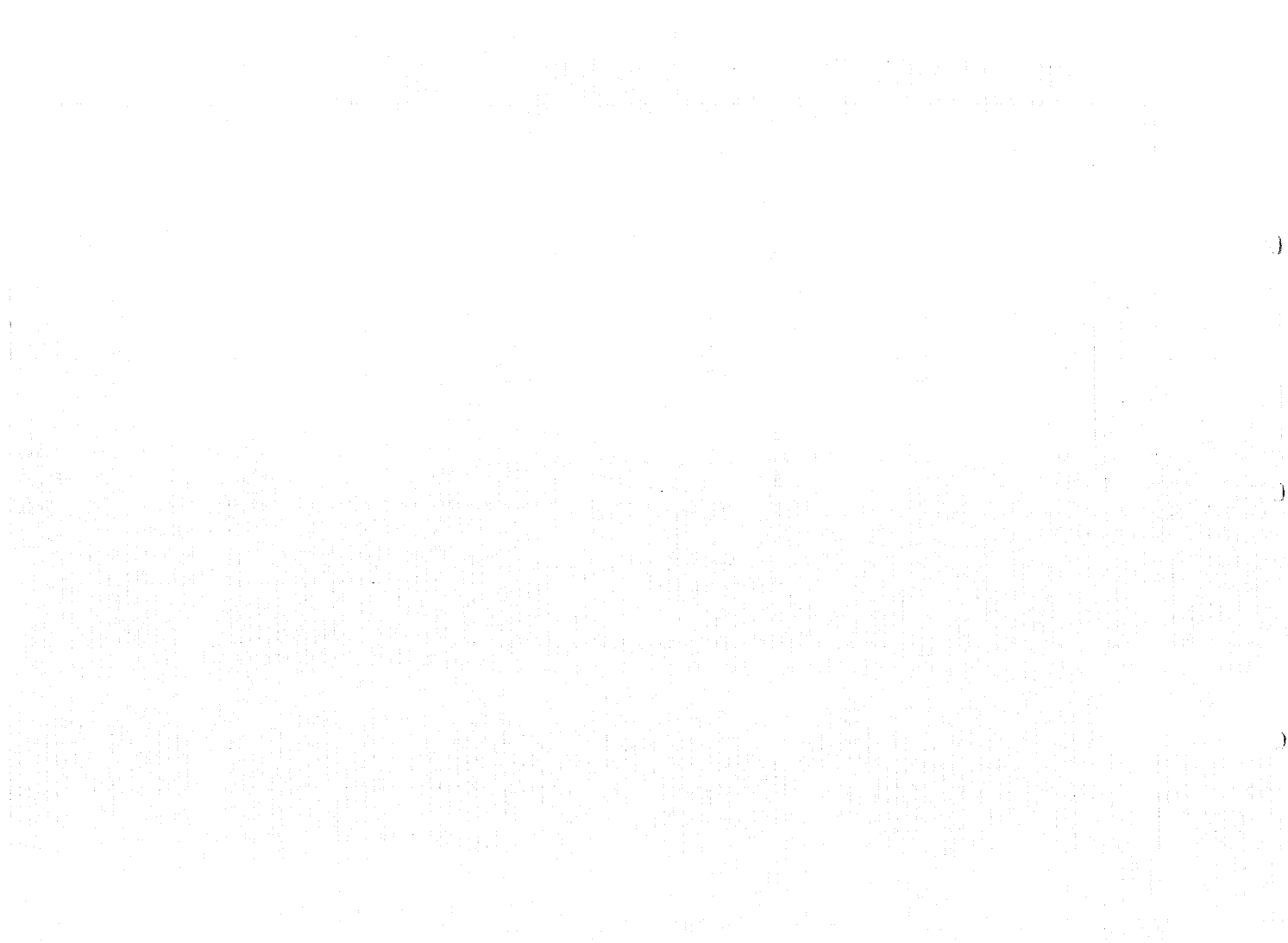
Apz 2-3-1 (18) Geological logging of MJAS-21, Mbi Skroske area

INCLINATION : -55°

AREA : MBI SKROSKE BEARING : N30 E (30°) ELEVATION : 1,099.03m FINAL DEPTH : 100.60m

MJAS-21

SCALE (m)	DEPTH (m)	DESCRIPTION	REMARKS	MINERALIZATION	CO ₂ (%)	SAMPLE No.	ROCK PROPERTY
							Core Rec RQD Angle of Frs. (%) (%) (%) (°)
VVV	0.00 - 56.70:	Harzburgite; serpentinized, dark green, medium hard, Pz 20 to 30%, with foliation of 50 degree of core angle.					0 100
VVV	0.00 - 0.80:	broken into small blocks,					20 77
VVV	2.05 - 2.75:	ditto, lower part is friable,					0 52
VVV	2.75 - 4.55:	broken into small blocks.					10 35
5	VVV						32 80
VVV							100 100
VVV							70 100
VVV							66 100
10	VVV	8.60 - 9.22: broken into small blocks,					41 100
VVV	9.22 - 8.30:	brecciated zone; green.					66 100
VVV							88 100
VVV							43 100
VVV							10 100
VVV							0 100
VVV							53 81
VVV							13 82
VVV							0 72
VVV							0 76
VVV							0 72
VVV							0 61
VVV							66 100
VVV							62 100
VVV							24 100
VVV							86 100
VVV							100 100
VVV							78 100
VVV							100 100
VVV							100 100
VVV							90 100
VVV							60 60
VVV							100 100
VVV							100 100
VVV							38 100
VVV							28 100
VVV							100 100
VVV							92 100
VVV							100 100
VVV							100 100
VVV							100 100
VVV							100 100
VVV							90 90
VVV							100 100
VVV							100 100
VVV							100 100
VVV							52 100
VVV							100 100
VVV							100 100
VVV							55 100
VVV							41 100
VVV							13 100
VVV							10 100
VVV							90 100
VVV							90 100
55	VVV	33.90 - 54.60: Dunitic; serpentinized, dark green, hard, with core angle of contact 50 to 60 degree.					100 100
VVV	56.50 - 56.70:	Pyroxenite dike, 3 cm in width,					100 100
VVV	56.70 - 95.70:	Harzburgite, serpentinized, dark green, Pz. 10 to 20%, medium hard,					100 100
VVV	63.90 - 65.40:	Dunitic; serpentinized, dark green, hard,					100 100
VVV	63.50 :	cut by pyroxenite dike of 2 cm in width, core angle of contact : 70 degree,					100 100
VVV	63.70 :	ditto,					55 100
VVV	63.70 - 68.14:	partly less pyroxene grains up to 10%, fractures are filled with serpentine minerals, partly broken into small blocks,					41 100
VVV	69.00 - 69.10:	Dunitic; serpentinized, dark green,					13 100
VVV	69.50 - 69.60:	Pyroxenite dike,					90 100
70	VVV						90 100



GEOLOGIC LOG (2)

MJAS-21 AREA : MBX SKROSKE INCLINATION : -55° ELEVATION : 1.039.03m FINAL DEPTH : 100.60m
 BEARING : N30 E (90°)

SCALE (m)	DEPTH (m)	DESCRIPTION	REMARKS	MINERALIZATION	CrO3 (%)	SAMPLE No.	ROCK PROPERTY Angle of Fisk. (°)	Core Recovery (%)	ROD (%)	Core Recovery (%)
70	70.80 - 70.90	ditto, core angle of contact: 60 degree, 2 to 3 cm in width.						89	100	100
	74.00 - 74.46	broken into small blocks.						100	100	100
75	78.10 - 78.46	broken into small blocks.						100	100	100
80								52	100	100
85	86.44 - 86.64	broken into small blocks.						100	100	100
	88.93 - 89.15	broken into small blocks.						100	100	100
90	91.10 - 91.70	broken into small blocks.						100	100	100
	91.70 - 93.17	Pyroxenite dike, gray, hard.						100	100	100
	93.40 - 95.45	Pyroxenite dike, gray, hard, core angle of contact: 70 degree.						100	100	100
95	95.70 - 100.60	Harzburgite; serpentinitized, gray, hard, Psc 35%.						100	100	100
100	100.60					4890 21-R-3		90	100	100

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Apx. 2-3-1 (19) Geological logging of MJAS-22, Mbi Skroske area

INCLINATION : -63°
BEARING : S10° W (190°)

AREA : MBI SKROSKE ELEVATION : 1,080.12m FINAL DEPTH : 100.00m

MJAS-22

DEPTH (m)	DESCRIPTION	REMARKS	MINERALIZATION	CrOs (%)	SAMPLE No.	ROCK PROPERTY Angle of Fol. (°)	Core Rec (%)
3.24-3.44	0.00 - 0.40: Surface soil, brown, very soft.					0	100
3.44-3.64	0.40 - 3.15: Strongly weathered ultrabasic rock with blocks of harzburgite; brown.					0	100
3.64-3.84	3.15 - 3.50: Weakly weathered harzburgite; serpentinized, brown to dark brown, medium hard, Px: 25 to 30%, core angle of foliation: 80 to 90 degree.					90	100
3.84-4.04	3.50 - 8.90: Harzburgite; serpentinized, greenish dark gray, medium hard to hard, Px: approx. 25 to 30%, core angle of foliation: 80 to 90 degree.					100	100
4.04-4.24	8.90 - 10.90: Pyroxenite dikes, core angle of contact: 0 degree.					90	100
4.24-4.44	12.00 - 12.50: Small fault, width: 1 - 2 cm, core angle of contact: 0 degree.					100	100
4.44-4.64						85	100
4.64-4.84						85	100
4.84-5.04						100	100
5.04-5.24						100	100
5.24-5.44						100	100
5.44-5.64						100	100
5.64-5.84						100	100
5.84-6.04						100	100
6.04-6.24						100	100
6.24-6.44						100	100
6.44-6.64						100	100
6.64-6.84						100	100
6.84-7.04						100	100
7.04-7.24						100	100
7.24-7.44						100	100
7.44-7.64						100	100
7.64-7.84						100	100
7.84-8.04						100	100
8.04-8.24						100	100
8.24-8.44						100	100
8.44-8.64						100	100
8.64-8.84						100	100
8.84-9.04						100	100
9.04-9.24						100	100
9.24-9.44						100	100
9.44-9.64						100	100
9.64-9.84						100	100
9.84-10.04						100	100

558
22-R-1

GEOLOGIC LOG (2)

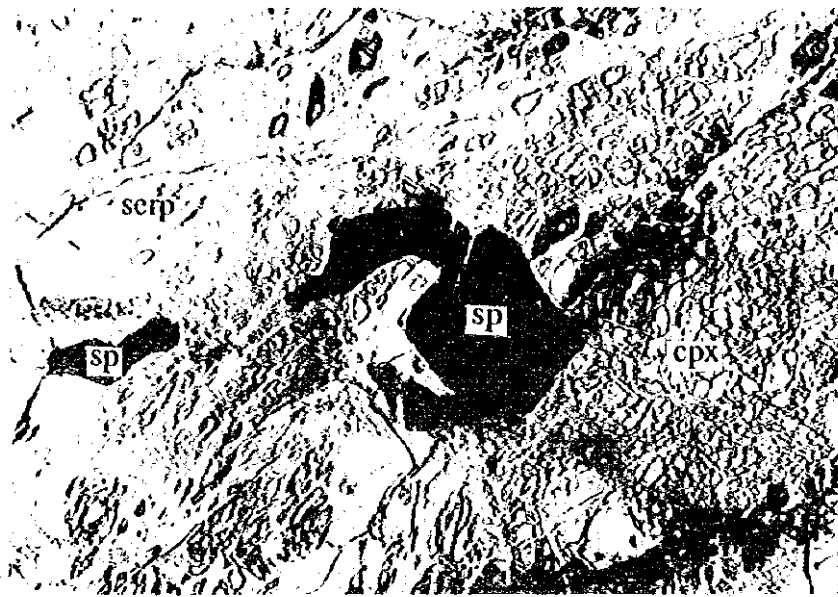
MIAS-22
 AREA : MBI SKROSKE INCLINATION : -63°
 BEARING : S10°W (190°) ELEVATION : 1,080.12m FINAL DEPTH : 100.00m

SCALE (m)	DEPTH (m)	DESCRIPTION	REMARKS	MINERALIZATION	CrObs (%)	SAMPLE No.	ROCK PROPERTY		
							Angle of Frs (°)	RQD (%)	Core Rec (%)
70	VVV	71.70 - 72.00: Pyroxinite dike, core angle of contact: 30 to 40 degree.					100	100	100
	VVV	73.33 - 74.00: Harzburgite with pyroxinite dike					100	100	100
75	VVV	75.64 - 75.94: Strongly serpentinized harzburgite, sheared.					100	100	100
	VVV						100	100	100
	VVV						100	100	100
80	VVV						100	100	100
	VVV						100	100	100
	VVV						100	100	100
85	VVV						100	100	100
	VVV						100	100	100
	VVV						100	100	100
90	VVV	88.90 - 89.10: friable zone, composed mainly of serpentine minerals, fault?					100	100	100
	VVV	91.33 - 95.50: Harzburgite, broken into small blocks.					100	100	100
	VVV						100	100	100
	VVV						100	100	100
95	VVV	95.50 - 96.60: Pyroxinite dike, core angle of contact 90 degree.					100	100	100
	VVV	97.60 - 97.80: Harzburgite broken into small blocks, may be fault.				98.7 22-R-2	28	45	100
	VVV						56	100	100
100	VVV						90	100	100

Apr. 2-3-2 Results of topographic survey of drilling points in 1996

Point	Bearing	True Bearing	Horizontal Distance, m	Deviation		Coordinates		Elevation m	Control Point
				ΔY	ΔX	Y	X		
Bregu i Pishes									
+A: back to 760/1		320° 27' 52"	0.0	0.00	0.00	67,147.14	43,268.21	1,143.81	
MJAS-1	14° 36' 52"	335° 03' 52"	35.6	-15.00	32.28	67,132.14	43,300.49	1,141.32	+A
MJAS-2	18° 53' 20"	339° 21' 12"	71.0	-25.03	66.43	67,122.11	43,334.64	1,141.46	+A
MJAS-3	25° 28' 00"	345° 55' 52"	105.2	-25.57	102.04	67,121.57	43,370.25	1,135.48	+A
Fusha e Madhe									
+C: back to B		72° 44' 01"	0.0	0.00	0.00	66,158.24	43,967.54	1,125.94	
MJAS-4	288° 41' 00"	1° 25' 01"	77.9	1.93	77.88	66,160.17	44,045.42	1,119.44	+C
MJAS-5	Stopped	-	-	-	-	-	-	-	+C
Gjordeke									
+A: back to 414		141° 30' 14"	0.0	0.00	0.00	66,587.56	43,971.79	1,304.88	
MJAS-6	62° 31' 00"	204° 01' 14"	106.6	-43.39	-97.37	66,544.17	43,874.42	1,304.85	+A
MJAS-7	69° 35' 20"	211° 05' 34"	74.4	-38.42	-63.71	66,549.14	43,908.08	1,303.65	+A
Qarri i Zi									
Q1: back to Q		351° 16' 00"	0.0	0.00	0.00	55,357.81	53,823.91	650.04	
MJAS-8	341° 26' 20"	155° 42' 20"	7.8	3.21	7.13	55,361.02	53,816.78	644.87	Q1
Q: back to 209		256° 54' 27"	0	0	0	55,367.45	53,757.89	613.07	
MJAS-9	180° 47' 19"	356° 22' 30"	62.4	-3.94	62.27	55,363.50	53,829.16	644.68	Q
MJAS-10	199° 25' 55"	15° 11' 04"	35.6	9.32	34.34	55,376.77	53,792.23	627.18	Q
MJAS-11	Stopped	-	-	-	-	-	-	-	-
Shesh Bush No.1									
9: back to 8		195° 12' 17"	0.0	0.00	0.00	65,789.26	42,956.19	1,203.60	
MJAS-12	149° 22' 00"	344° 34' 17"	133.3	-35.46	128.49	65,753.80	43,084.68	1,202.04	9
MJAS-13	148° 05' 00"	343° 17' 17"	91.0	-26.17	87.16	65,763.09	43,043.35	1,199.60	9
MJAS-14	143° 56' 00"	339° 08' 17"	49.0	-17.45	45.79	65,771.81	43,001.98	1,199.76	9
Pishkash South									
232/3: back to 232/2		137° 02' 30"	0.0	0.00	0.00	60,119.50	51,310.12	971.51	
MJAS-15	155° 46' 25"	112° 48' 55"	22.0	20.28	-8.85	60,139.78	51,301.59	959.19	232/3
MJAS-16	191° 05' 10"	148° 07' 40"	150.0	78.67	-127.38	60,198.17	51,182.74	885.63	232/3
Murriq									
M: back to U		289° 35' 18"	0.0	0.00	0.00	64,587.51	45,266.29	732.73	
MJAS-17	Stopped	-	-	-	-	-	-	-	-
MJAS-18	11° 55' 00"	301° 30' 18"	84.0	-71.62	43.90	64,515.89	45,310.19	714.35	M
MJAS-19	42° 55' 00"	332° 30' 18"	49.8	-22.99	44.17	64,564.52	45,310.46	719.74	M
Mbi Skroske									
SK/1: back to SK		316° 10' 00"	0.0	0.00	0.00	59,264.79	52,578.21	1,054.72	
MJAS-20	70° 57' 50"	27° 07' 50"	48.0	21.88	42.72	59,286.67	52,620.93	1,041.81	SK/1
MJAS-21	45° 20' 40"	1° 30' 40"	46.0	1.21	45.98	59,266.00	52,624.19	1,039.03	SK/1
SK: back to SK/1		136° 10' 00"	0.0	0.00	0.00	59,178.08	52,668.52	1,061.48	
MJAS-22	70° 46' 40"	343° 56' 40"	51.8	-14.32	49.78	59,163.75	52,718.30	1,080.12	SK

Apx. 2-3-3(1) Microphotographs of core samples



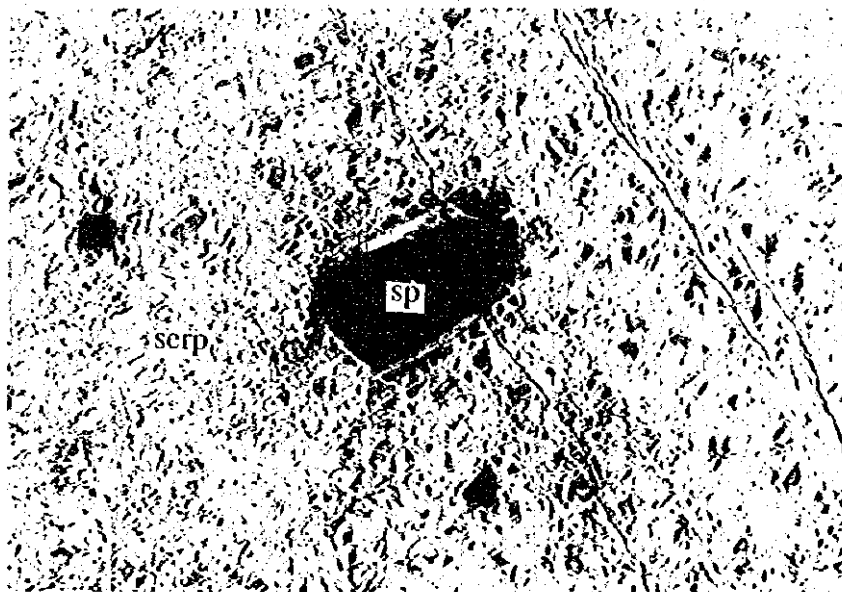
open nicol

0.5mm

Sample number : 1-R-5 (25.30m)

Rock type : harzburgite

Note : spinel (anhedral) with clinopyroxene



open nicol

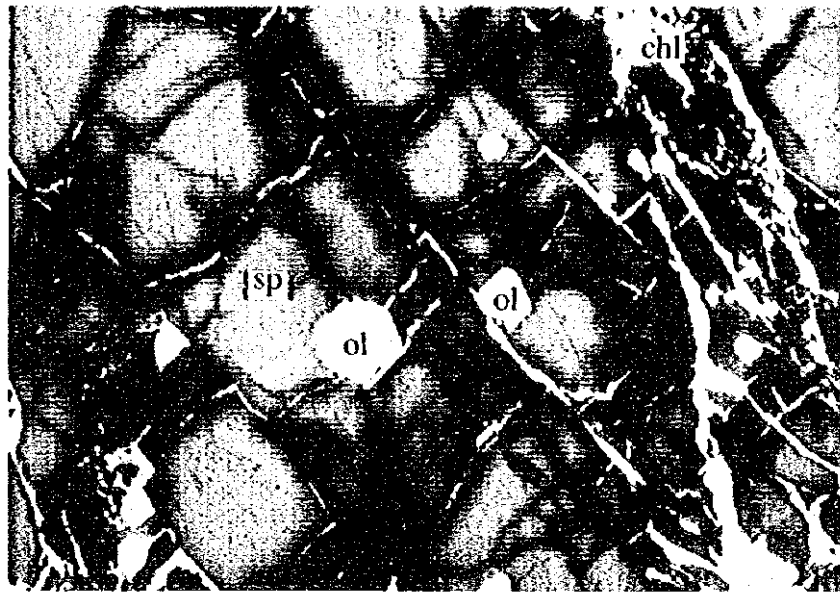
0.5mm

Sample number : 2-R-3 (59.80m)

Rock type : dunite

Note : euhedral spinel

Apx. 2-3-3(2) Microphotographs of core samples



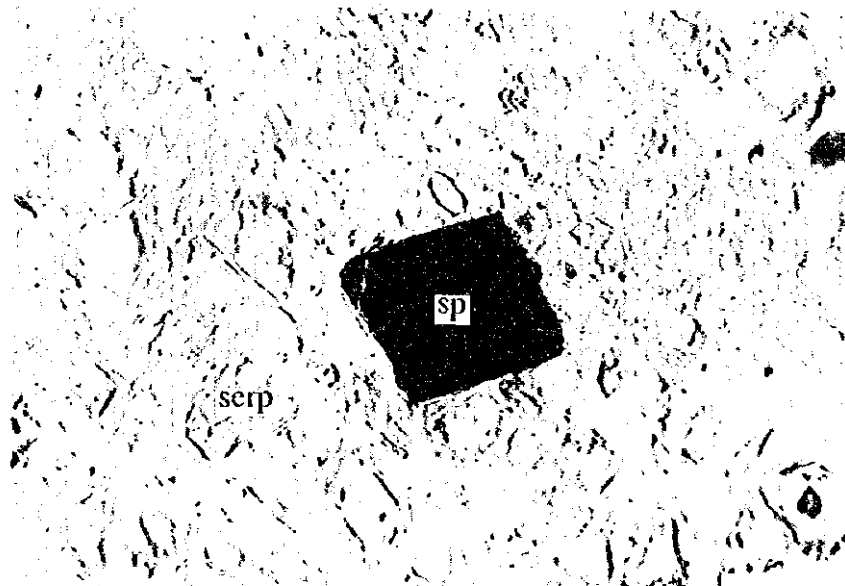
open nicol

0.5mm

Sample number : 2-R-4 (60.30m)

Rock type : chromitite

Note : olivine-inclusion (now altered)



open nicol

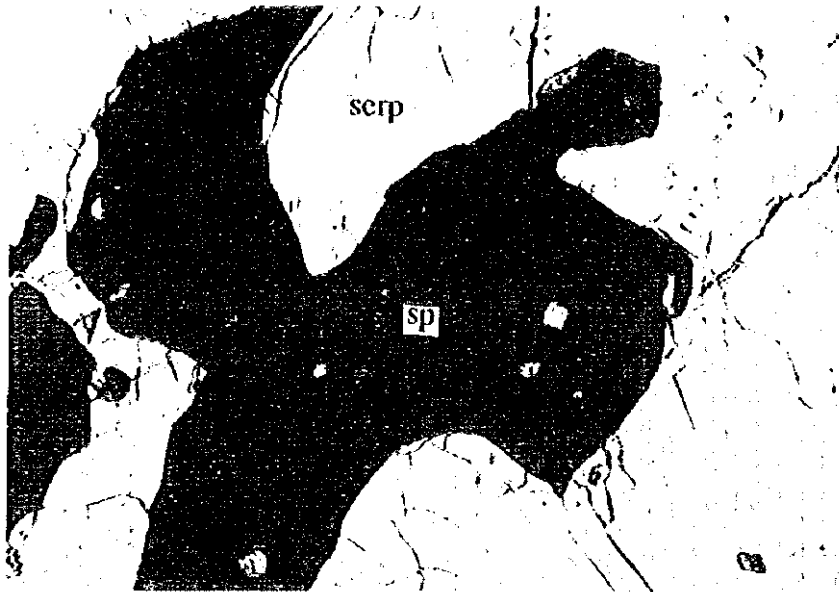
0.5mm

Sample number : 2-R-5 (66.40m)

Rock type : dunitite

Note : euhedral spinel with inclusion

Apx. 2-3-3(3) Microphotographs of core samples

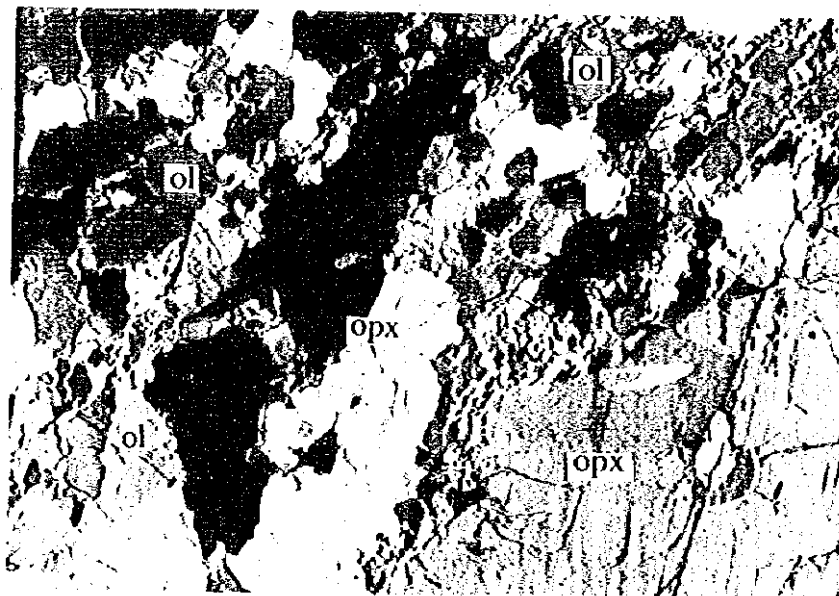


open nicol

Sample number : 3-R-5 (115.50m)

Rock type : harzburgite

Note : anhedral spinel with inclusions



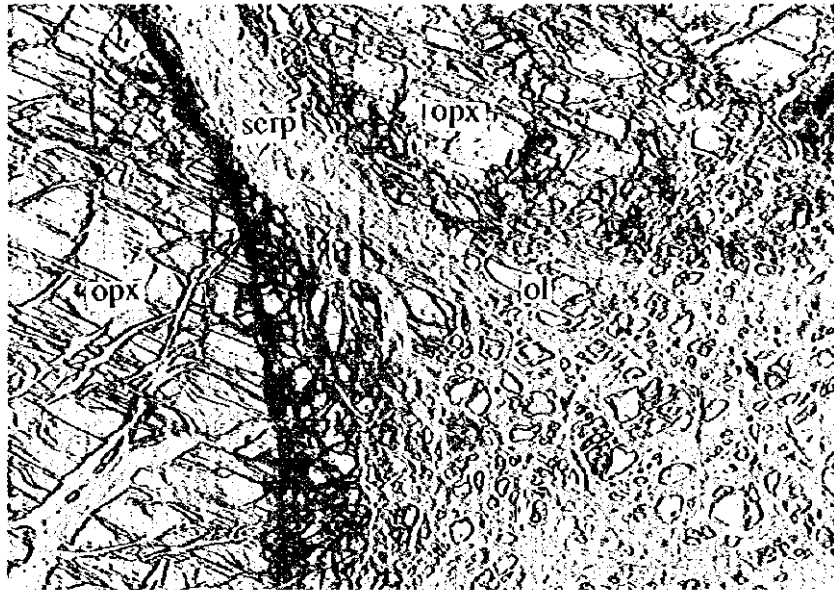
cross nicol

Sample number : 3-R-5 (115.50m)

Rock type : harzburgite

Note : fresh rock, porphyroclastic texture

Apx. 2-3-3(4) Microphotographs of core samples



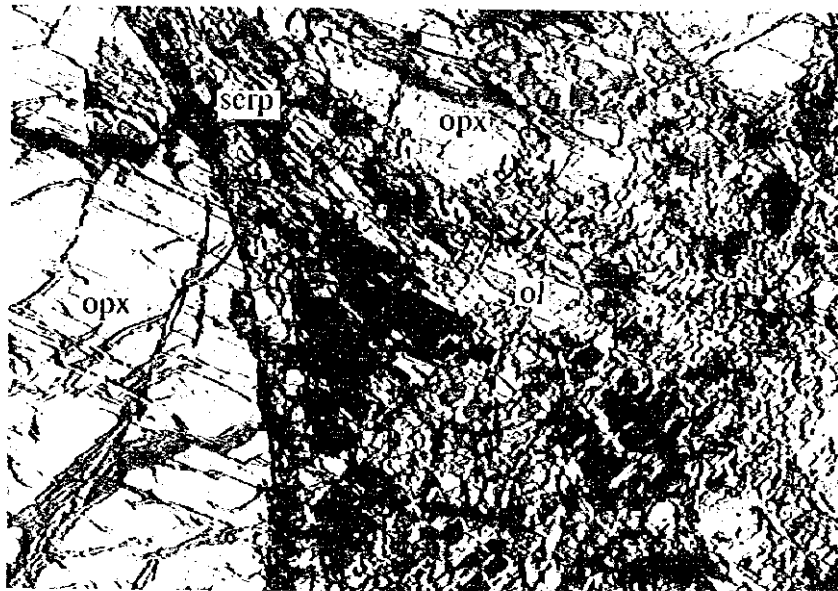
open nicol

0.5mm

Sample number : 4-R-2 (124.10m)

Rock type : harzburgite

Note : porphyroclastic texture



cross nicol

0.5mm

Sample number : 4-R-2 (124.10m)

Rock type : harzburgite

Note : porphyroclastic texture

Apx. 2-3-3(5) Microphotographs of core samples



open nicol

0.5mm

Sample number : 8-R-4 (49.20m)

Rock type : spinel-rich dunite

Note : spinel-rich part



open nicol

0.5mm

Sample number : 15-R-5 (99.10m)

Rock type : harzburgite

Note : anhedral spinel with orthopyroxene (partly altered)

Apx. 4-2-1 Geological situation and accessibility of chromite deposits in Ahu i Vetem area

Ahu i Vetem 鉱床付近の地質図を Plate 2-1-3 に、Lugu i Batres 鉱床付近の地質図を Plate 2-1-4 (1)~(2)に示す。Ahu i Vetem 地区の有望地点の概要は以下に示すとおりである。

Ahu i Vetem は調査地域ほぼ中央の標高 1700 m 付近に位置する鉱床で (Plate 2-1-3) , 地表では最大幅 1.5 m の塊状鉱が確認されている。また、この鉱床から採取した試料からは多くの EPMA 異常が得られている。また、この鉱床は Massive dunite-harzburgite suite 中の Dunite rich-zone かつ上位層との境界直下に位置し、地質的にもポテンシャルが高い位置にあるといえる。Gjeolba でも以前からこの鉱床に注目していたが、地形的制約から十分な探査は行われていない。本鉱床までは既設の林道が設置されているが、ボーリング機材を搬入するためにはかなりの部分を補修する必要がある。

Lugu i Batres は、Ahu i Vetem 北側の標高 1,750 ~ 1,850 m に位置する鉱床で (Plate 2-1-4) , 地表では最大 2 m の塊状鉱の分布が確認されている。本鉱床の地質的な条件は Ahu i Vetem とほぼ同様で、鉱床のポテンシャルは高いといえる。本鉱床へアクセスするためには、Ahu i Vetem から更に 3 km 程度、新たに道路を造成する必要がある。

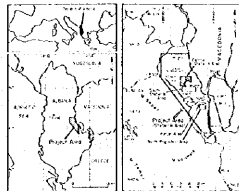
Gobille は、Lugu i Batres の南東の急斜面に位置し、地表では最大 1.5m のノジュラー鉱が確認されている。また、本地区から得られた試料には、多くの EPMA 異常が認められる。地質的条件は、前述の 2 鉱床とほぼ同様である。本鉱床は平均傾斜 40° くらいの急斜面に位置するため、調査条件は非常に悪いといえる。

No.115 は Ahu i Vetem の南側の急斜面に位置し、多くの EPMA 異常が得られている。地表で確認された鉱徴は、70×50cm の鉱染状鉱のレンズである。本鉱床の周辺には、このほかに Qafa e Dinarit 鉱床がある。Qafa e Dinarit は、既存資料によればほぼ水平に近いクロム鉱体で、坑道探鉱により鉱体が確認されているが、その広がりには確認されていない。地表踏査では、同地点で直径 30cm の塊状鉱の転石を確認している。これらの鉱床は急斜面上に位置するためアクセスが困難である。

Buzgare は、調査地西部の Buzgare 沢の右岸に位置する鉱床で、付近には 3 つの地表鉱徴が確認され、それらの中には塊状鉱も含まれている。これらの鉱床からの試料には、比較的多くの EPMA 異常が認められる。本鉱床へアクセスするためには、300 m 程度の道路の新設が必要である。

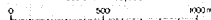
Report on the Mineral Exploration
in
the Shebenik Area, Republic of Albania
(Phase II)

**Geological Map and Geological Profile
of
the Central Shebenik Area**



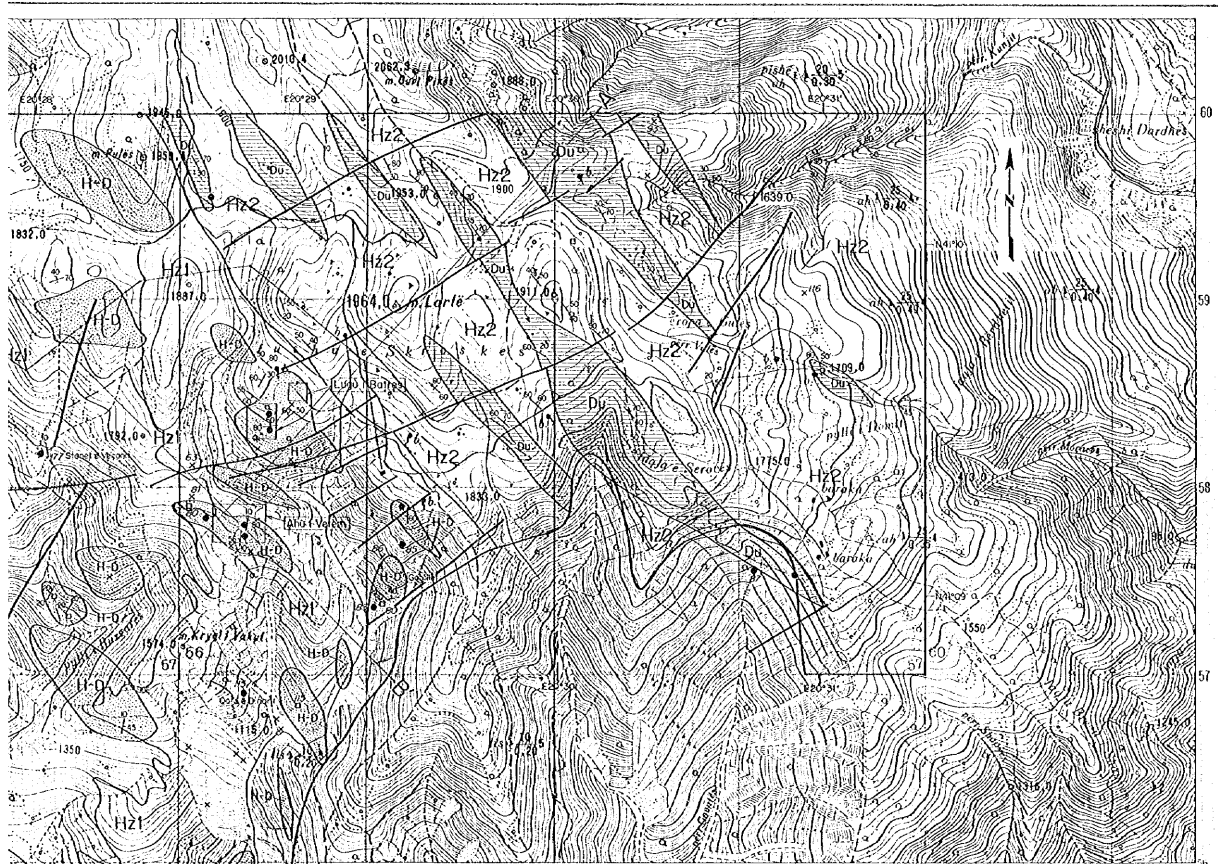
Japan International Cooperation Agency
Metal Mining Agency of Japan
February 1997

Scale 1:10,000

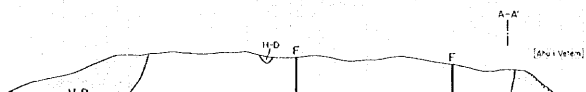


LEGEND

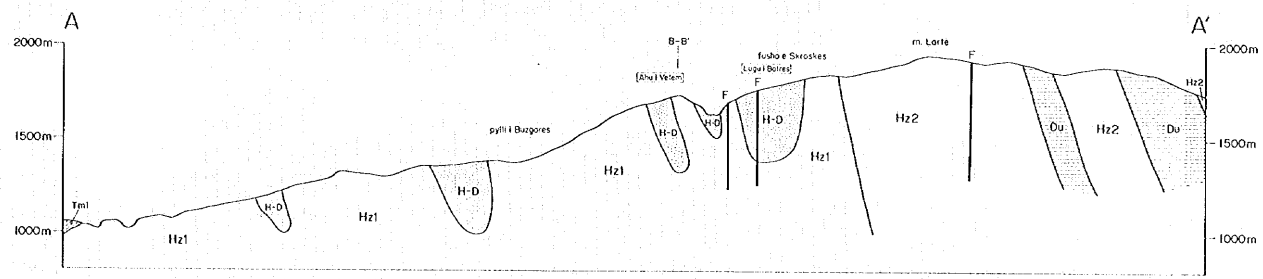
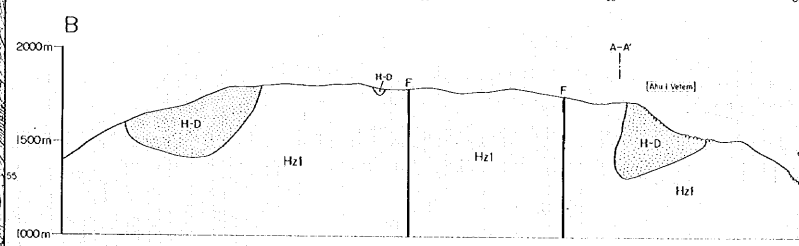
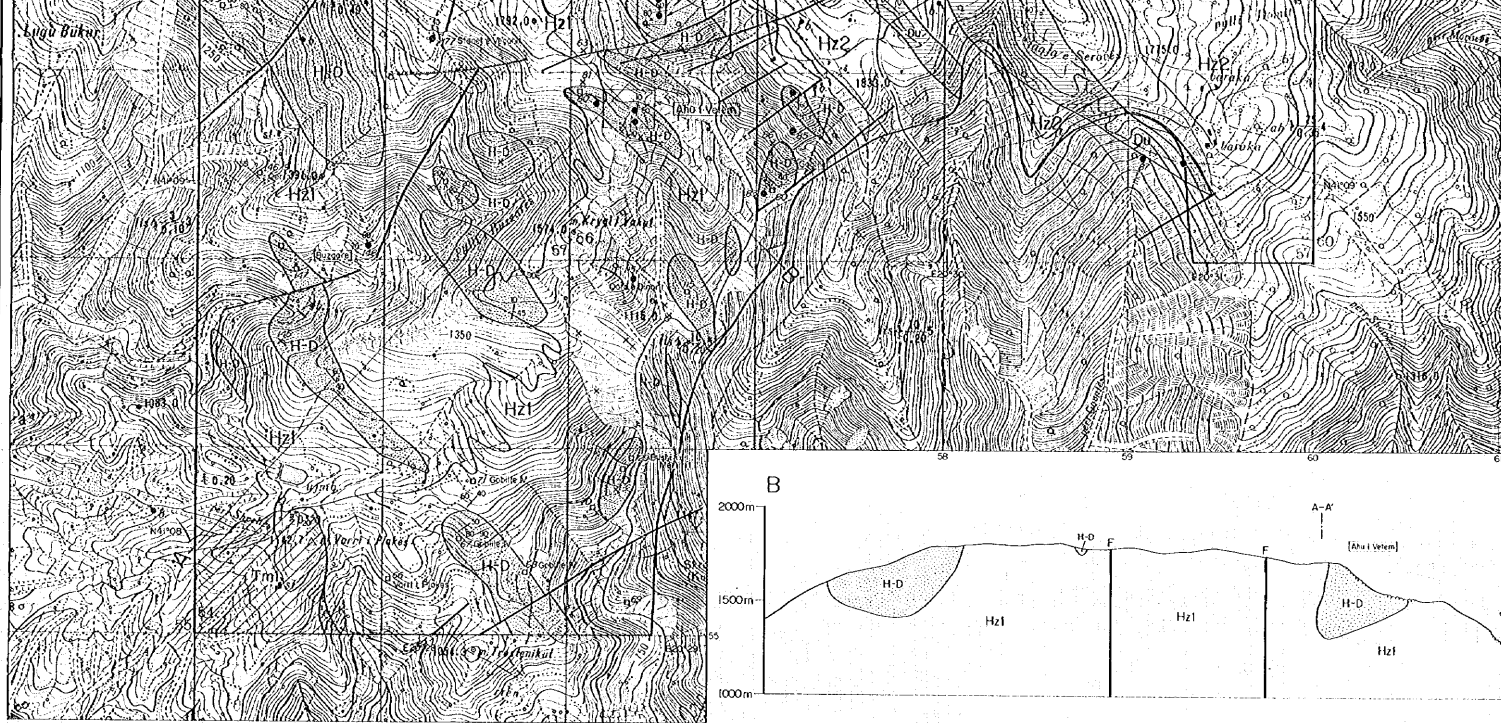
Symbol	Feature	Symbol	Feature
○	Well	■	Quartzite
□	Survey Station	■	Metasandstone
▨	Topographic Contour	■	Metagranite
—	Geological Boundary	■	Metabasite
—	Geological Profile	■	Metapelite
●	Exploration Agency Headquarters	■	Metasiltstone
⊠	Exploration Agency Sub-headquarters	■	Metasandstone
✕	Exploration Agency Sub-headquarters	■	Metasiltstone



B
2000m

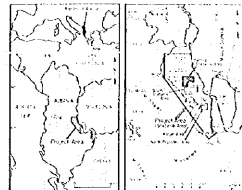


B'
2000m



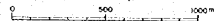
Report on the Mineral Explorations
in
the Shërbek Area, Republic of Albania
(Plate II)

**Location of Chromitite Deposits
and Showings
in the Central Shërbek Area**



Japan International Cooperation Agency
Metal Mining Agency of Japan
February, 1997

Scale 1 : 10,000



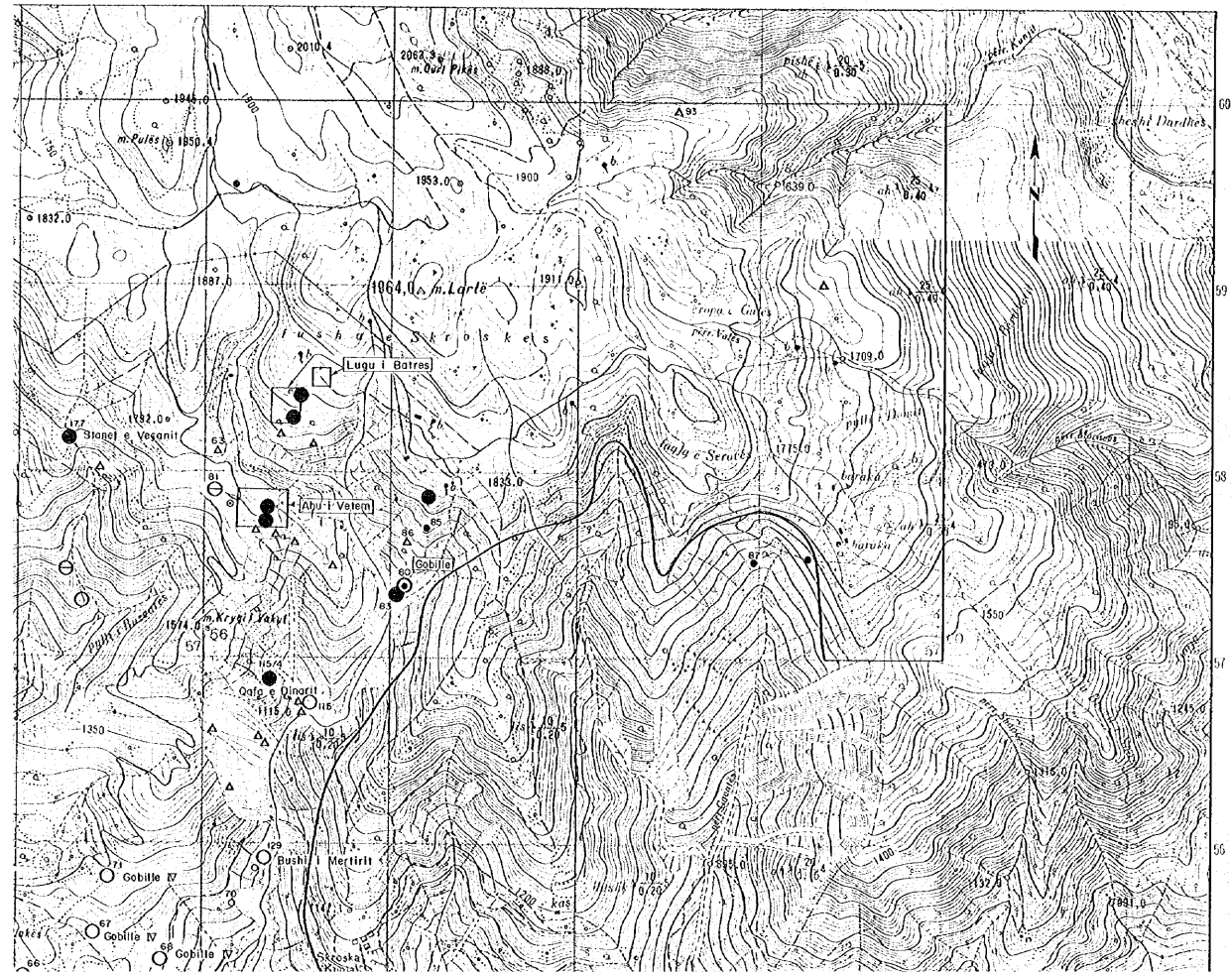
LEGEND

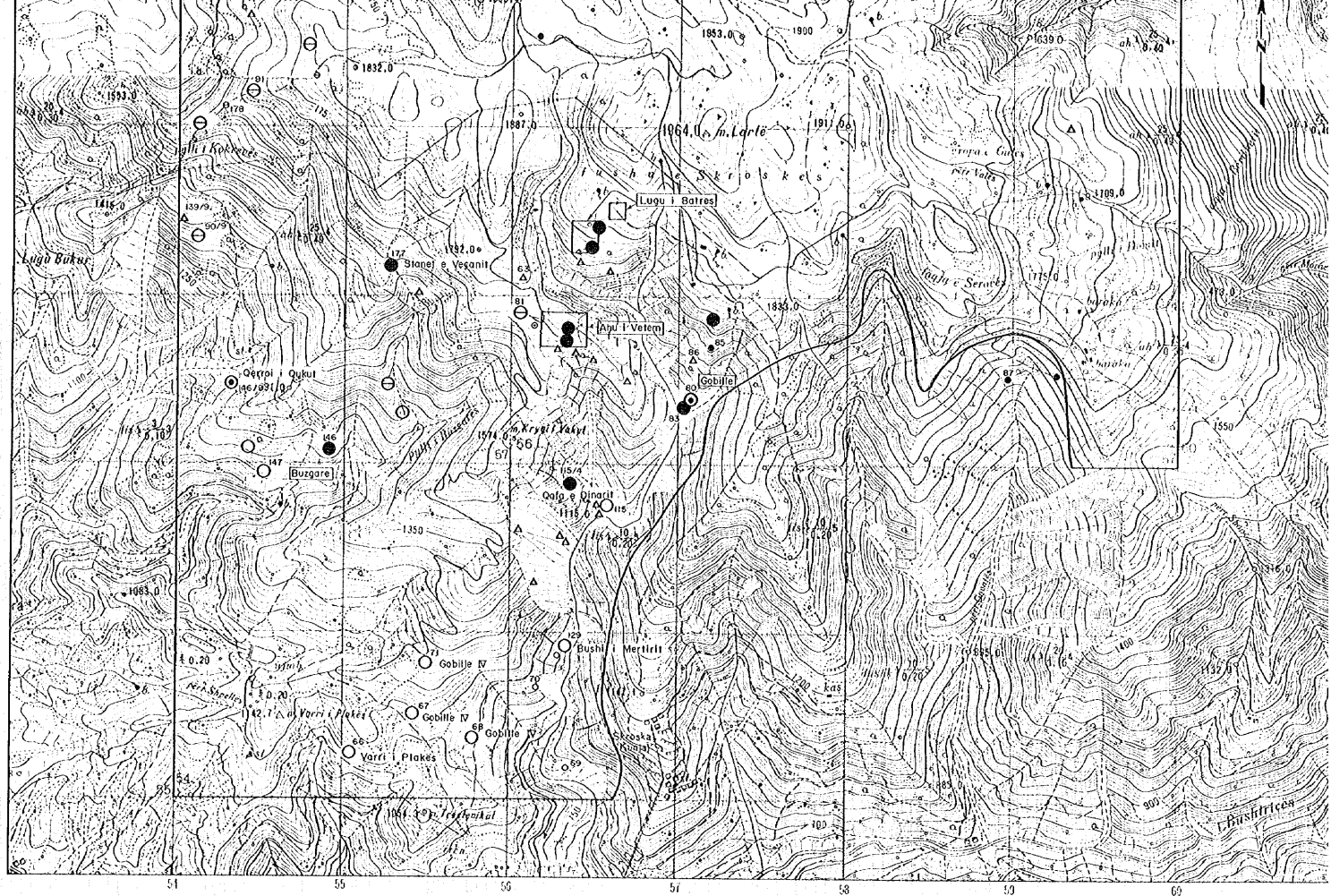
Deposits and indications confirmed in the field work

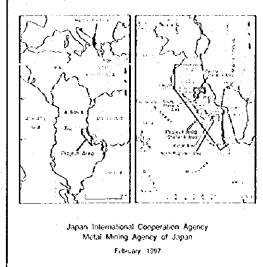
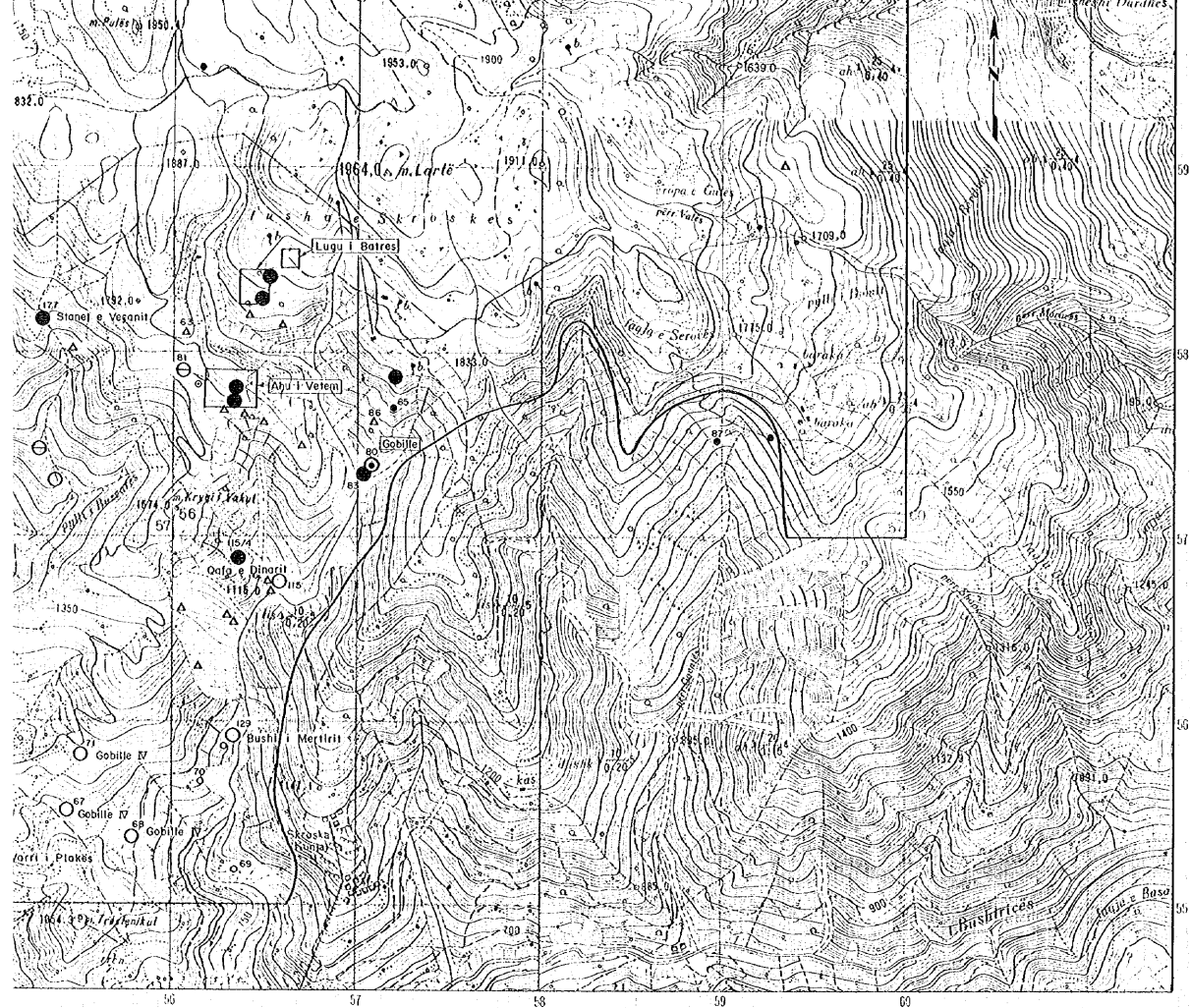
Mark	Mineral type classification
●	Muscovite chromitite
○	Nodular and anisotaxitic chromitite
○	Diffracted chromitite
⊖	Block chromitite

△ Not recognized in the field work but indicated in the preceding data.

Others
○ 45 Regional numbers of Yugoslav Geological Institute





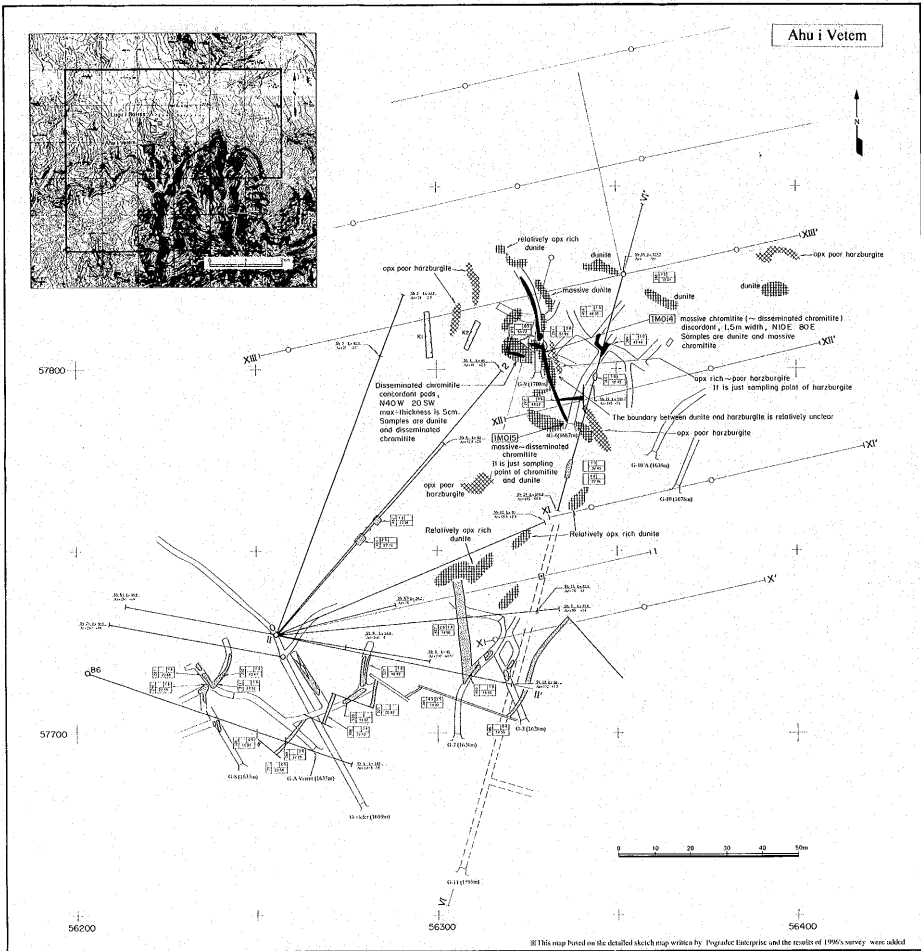


Japan International Cooperation Agency
 Nuclear Mining Agency of Japan
 February 1997

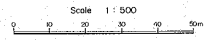
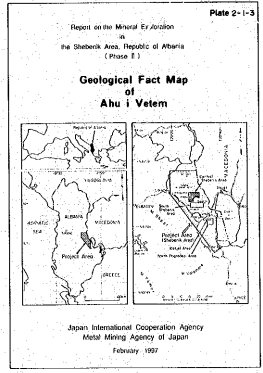
Scale 1 : 10,000
 0 500 1000m

LEGEND

- Deposited and identified overlies in the field work
- | Mark overlies in 1995 | Major type classification |
|-----------------------|-------------------------------|
| ● | Mafic diorite |
| ⊙ | Na-feld and anorthite diorite |
| ○ | Dioritic and diorite |
| ⊖ | Basalt diorite |
- Not recognized in the field work but indicated in the pre-existing data
- △
- Others
- 45 Registered number of Topographic work sheets



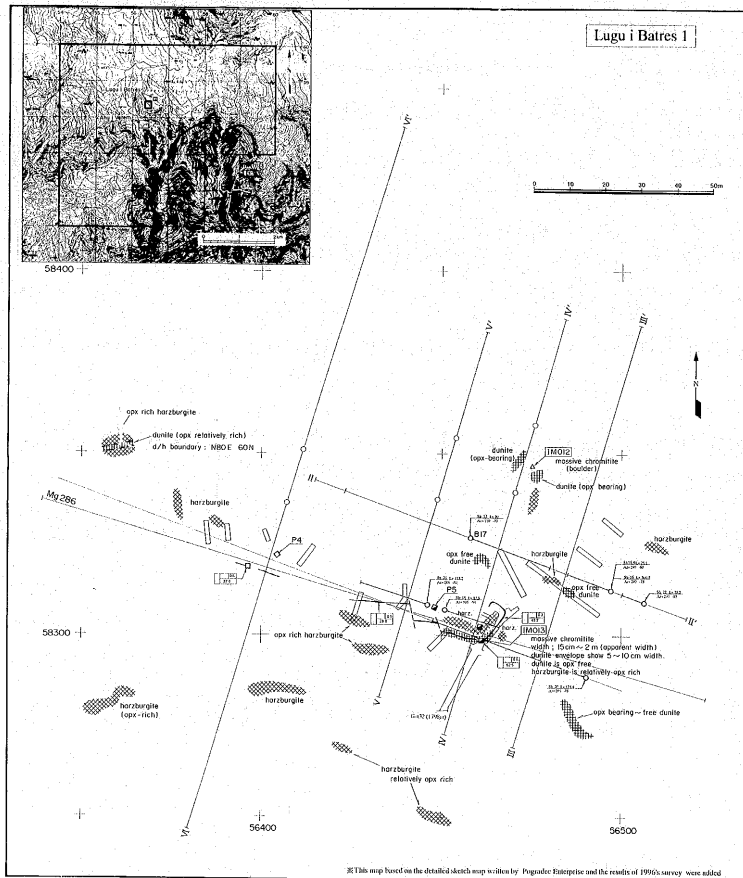
Ahu i Vetem



- LEGEND**
- massive chromitite
 - disseminated chromitite
 - hornblende
 - dunite
 - gully
 - trench
 - pit
 - rock hole etc.
 - equipment with (rod)
 - rod with (rod)
 - rod with (rod)

This map based on the detailed sketchmap written by Pogranic Enterprise and the results of 1996's survey were added

Lugu i Batres I





3E11b map based on the detailed sketch map written by Prograde Estigarribia and the results of 1996's survey, were added

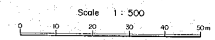
Plate 2-14-4
(1)

Report on the Mineral Exploration
in
The Sheber's Area, Republic of Aruba
(Phase 1)

**Geological Fact Map
of
Lugu i Batres I**

Japan International Cooperation Agency
Metal Mining Agency of Japan
February 1997



- LEGEND**
- massive chromitite
 - disseminated chromitite
 - hornblende
 - diatreme
 - gully
 - track
 - pit
 - bore hole No. 50m (m)
 - Sh.M. Lx2
 - An.20m x3
 - gully
 - gully with (m)
 - track with (m)
 - pit with (m)

