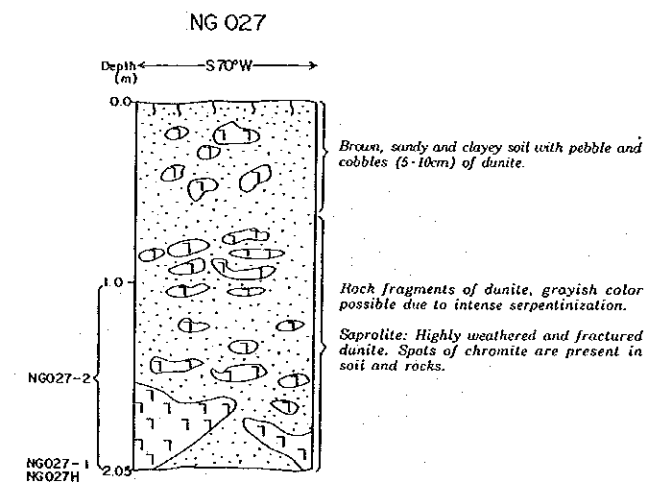
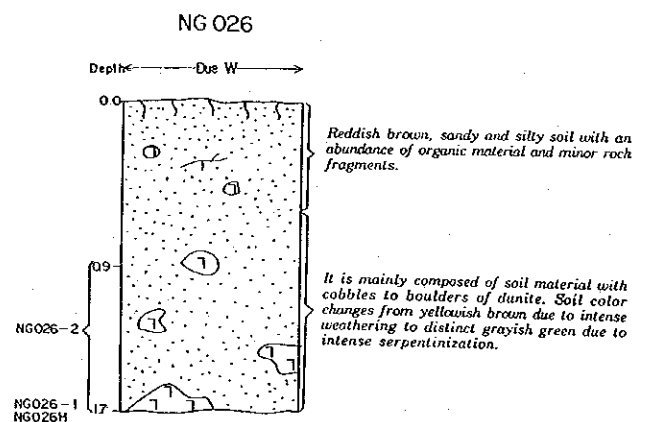
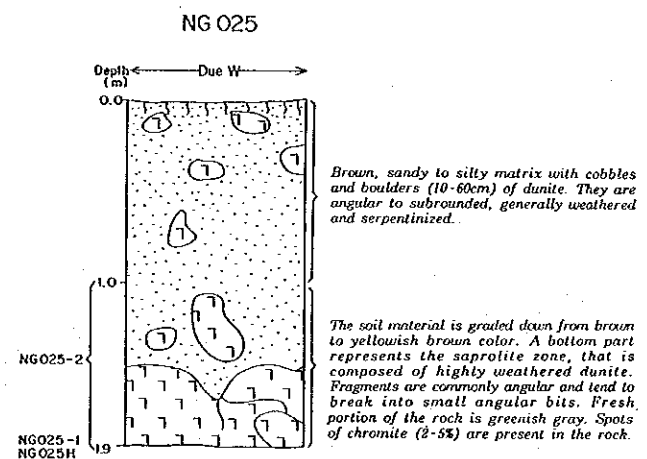
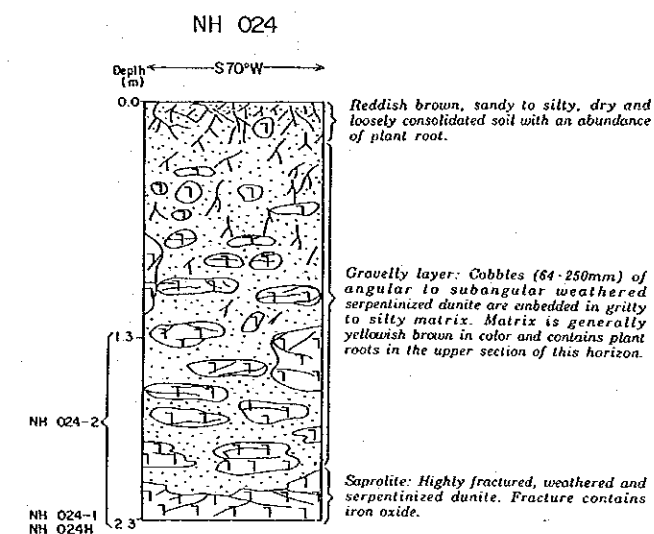
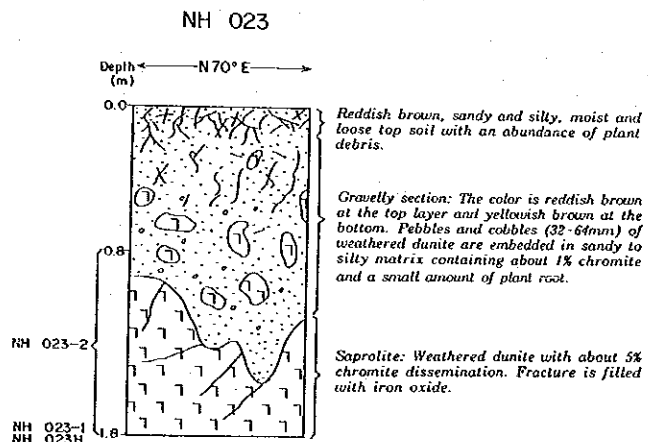
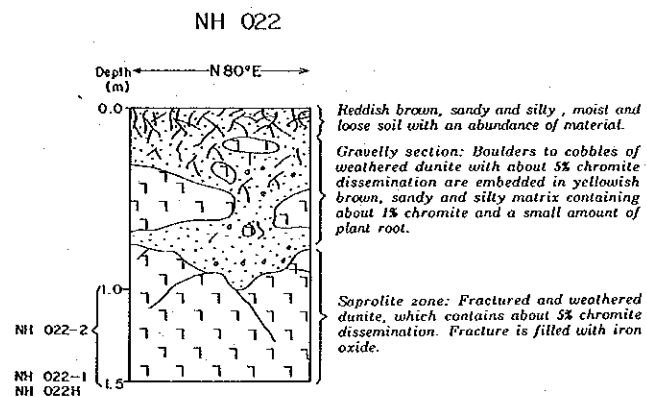
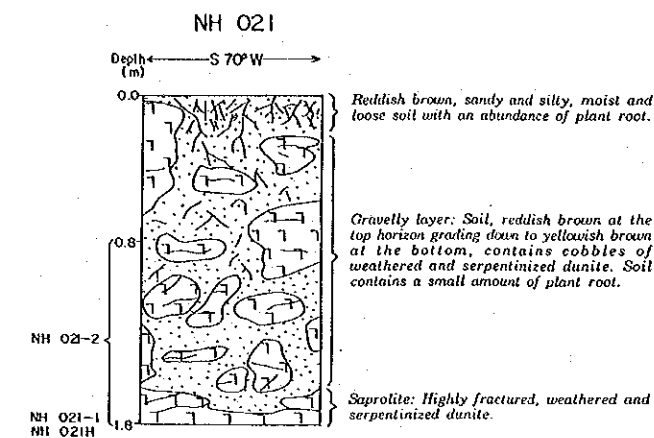
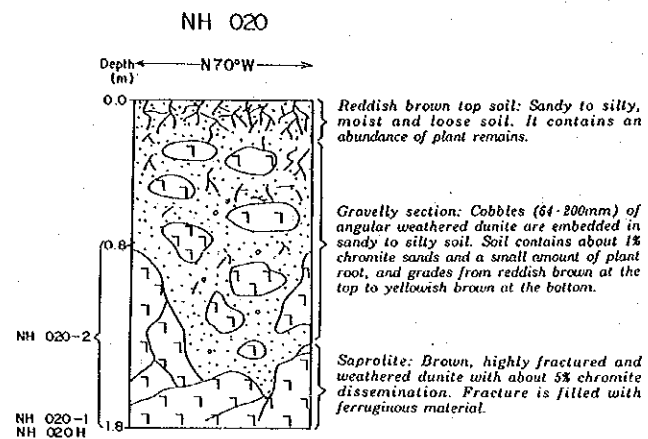
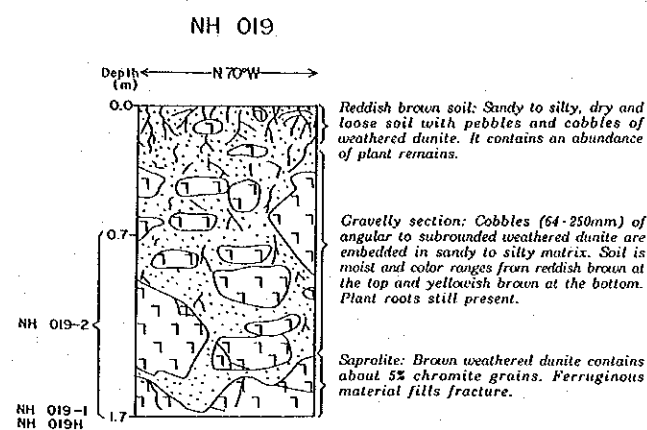
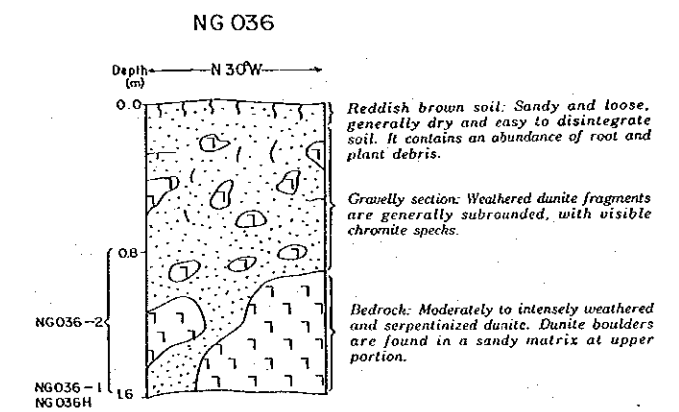
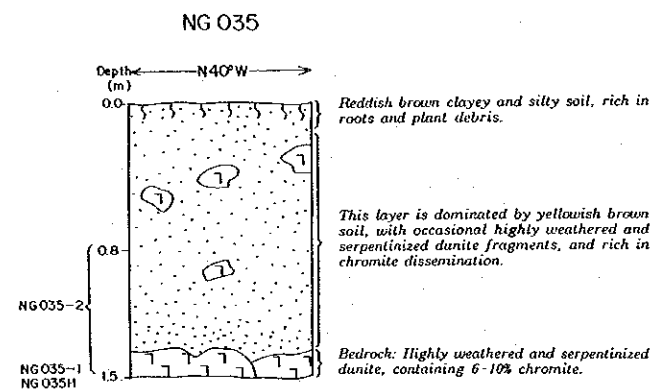
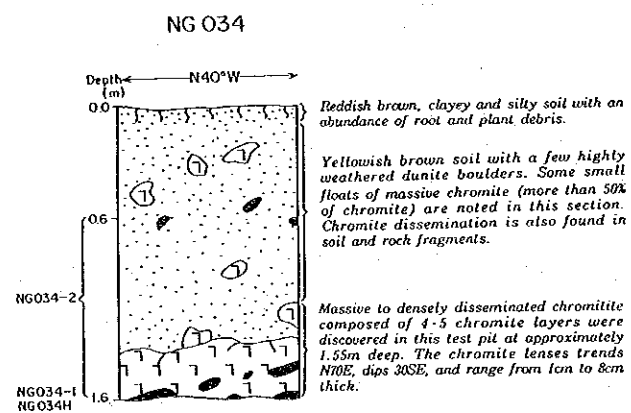
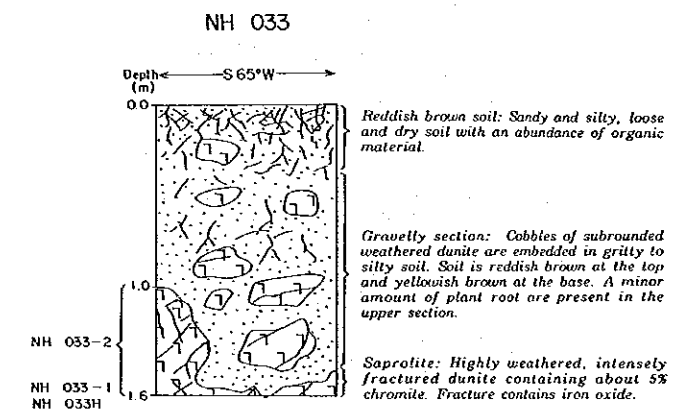
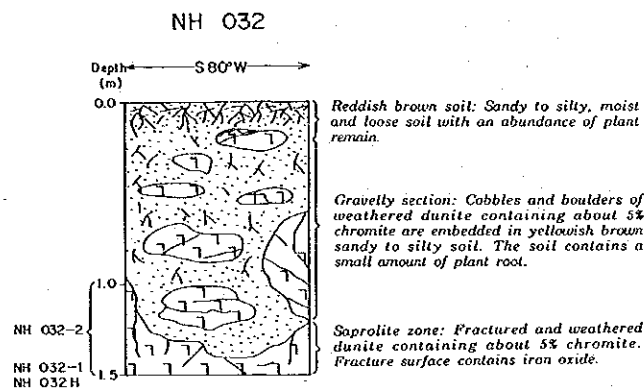
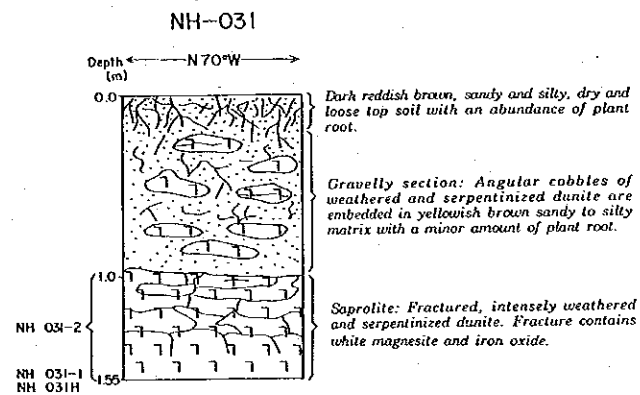
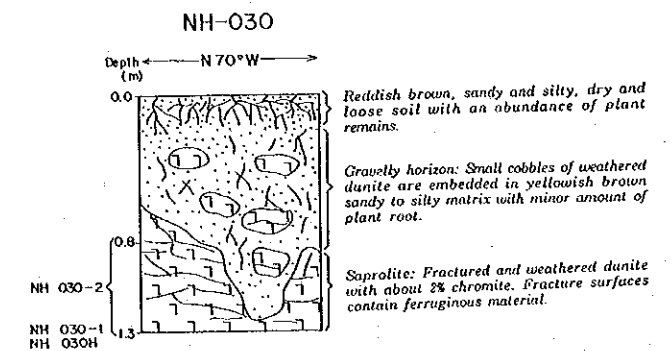
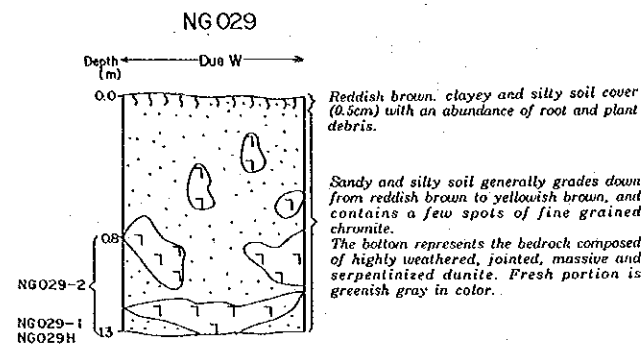
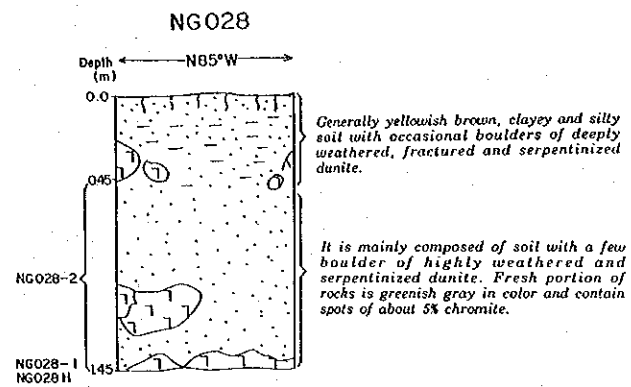
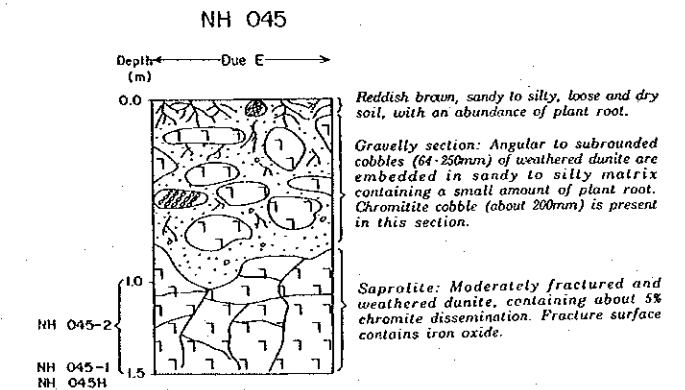
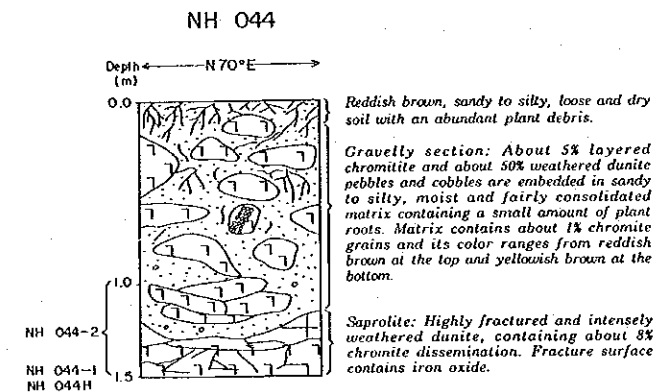
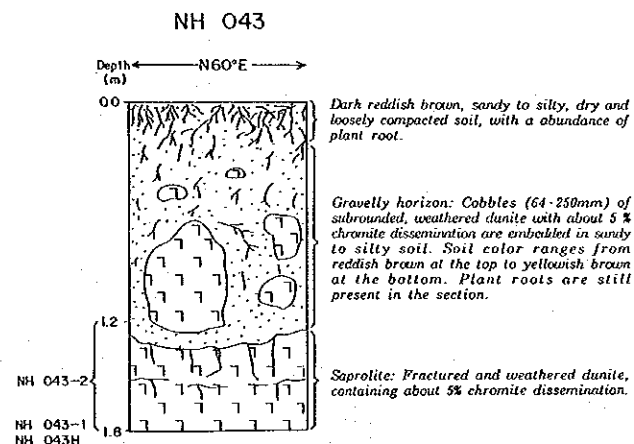
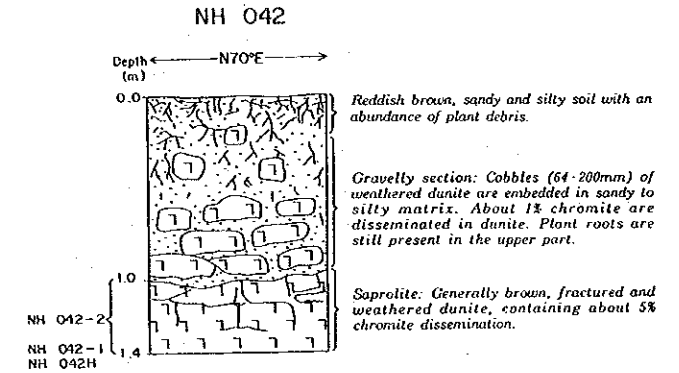
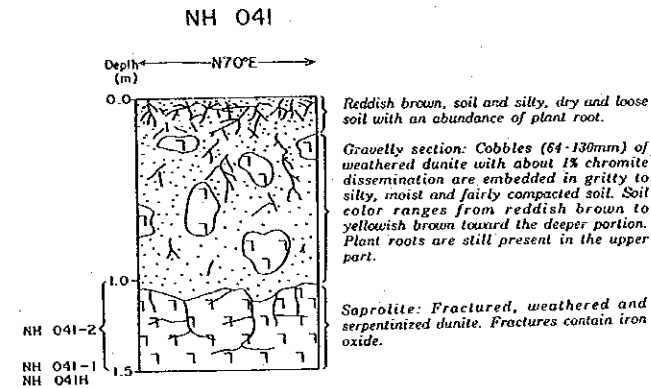
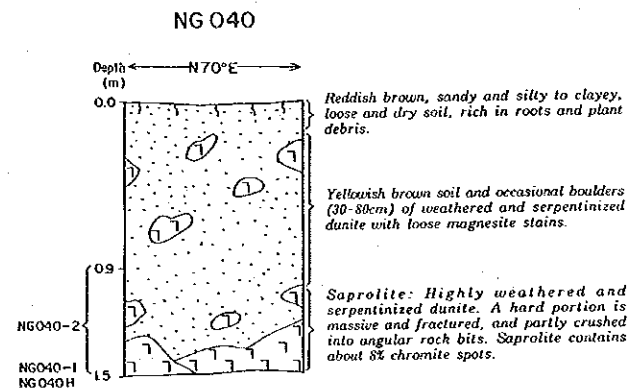
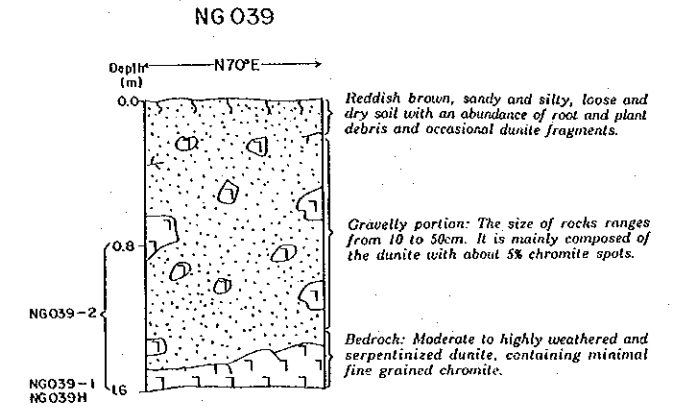
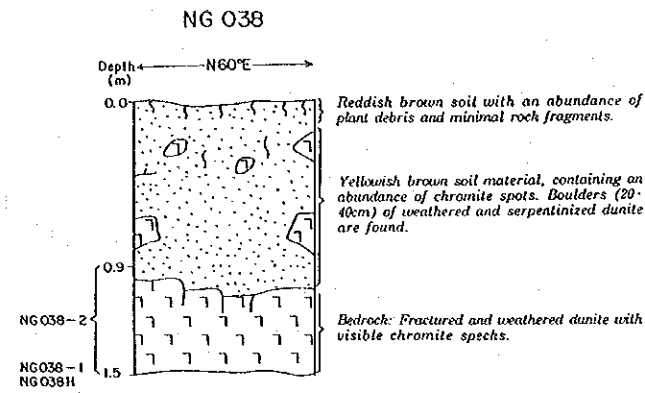
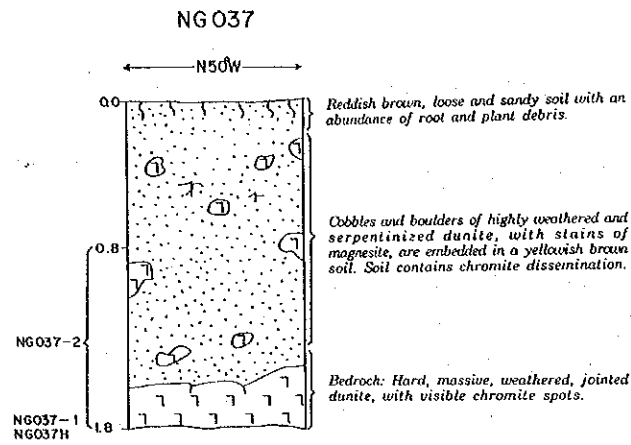
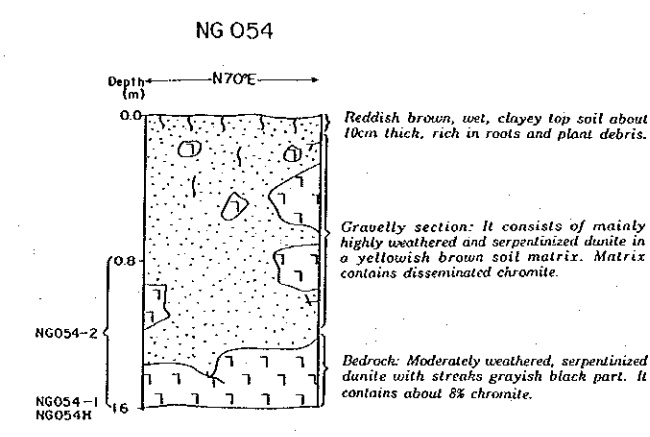
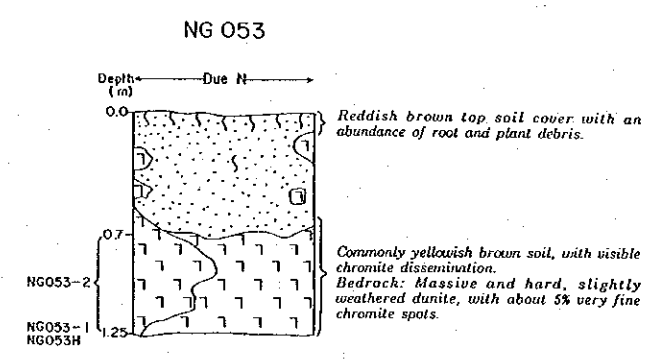
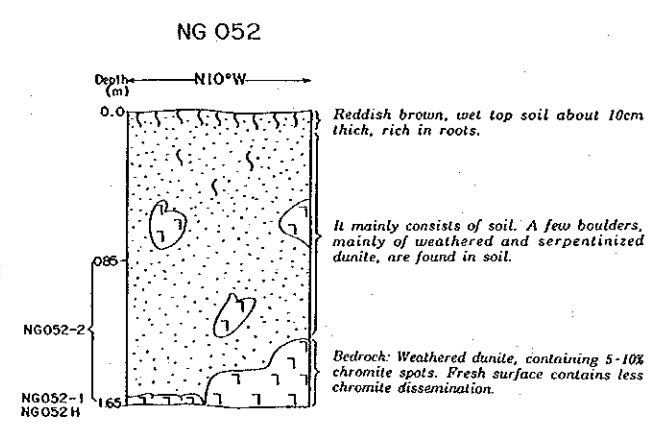
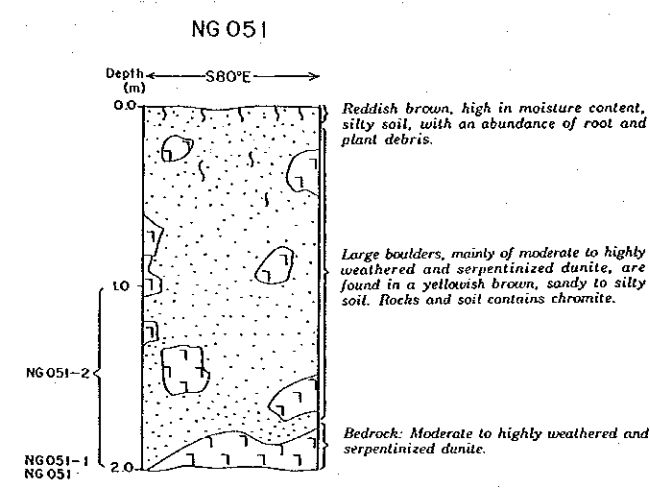
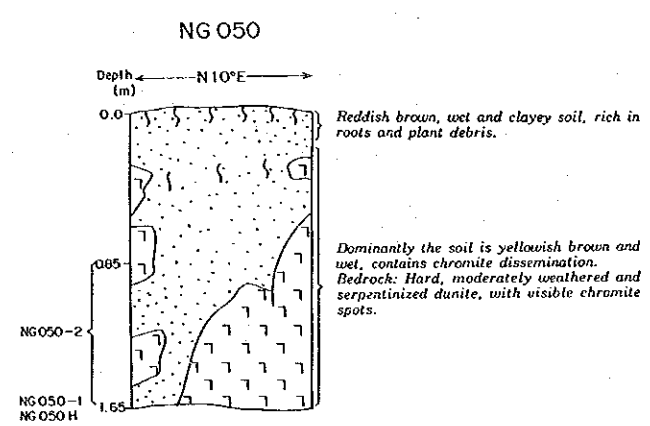
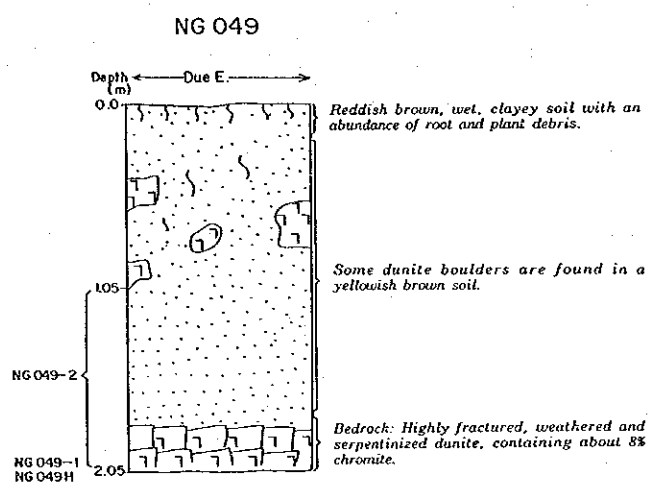
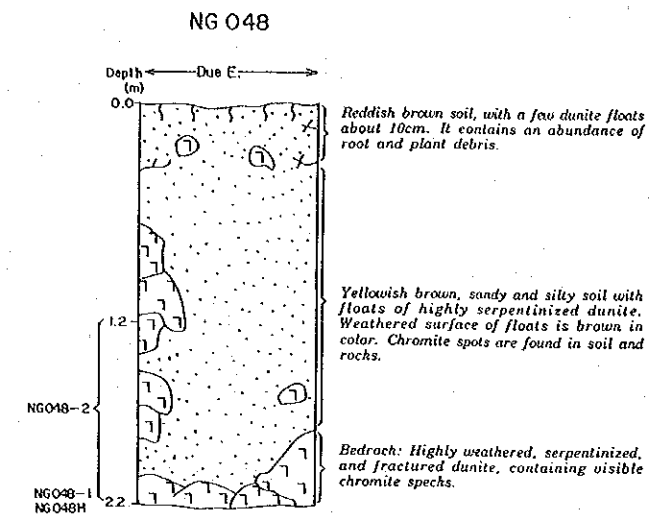
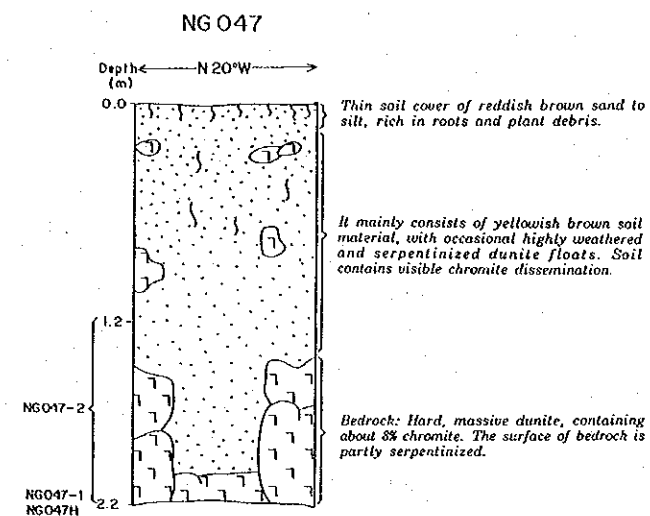
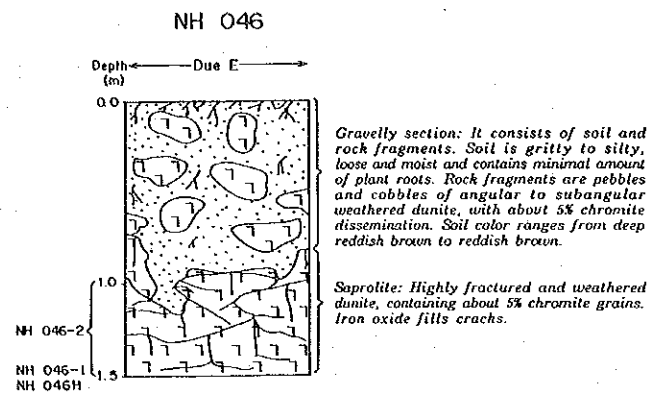


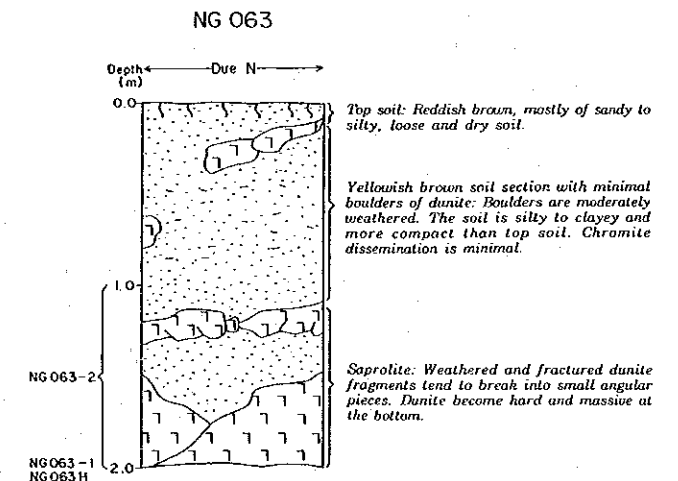
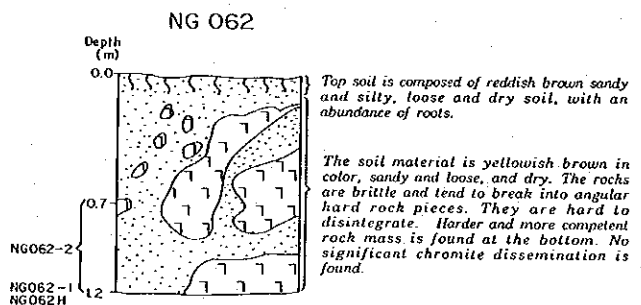
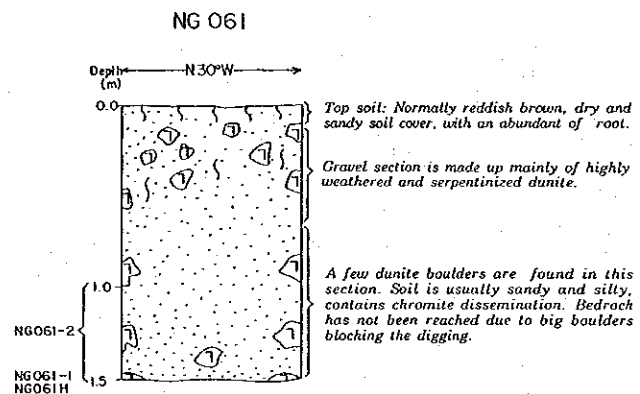
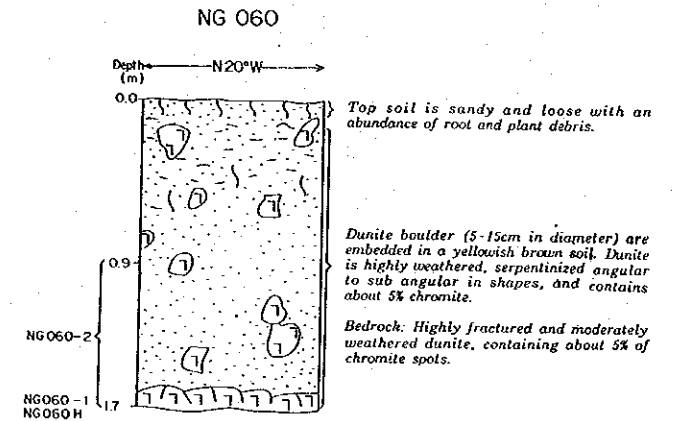
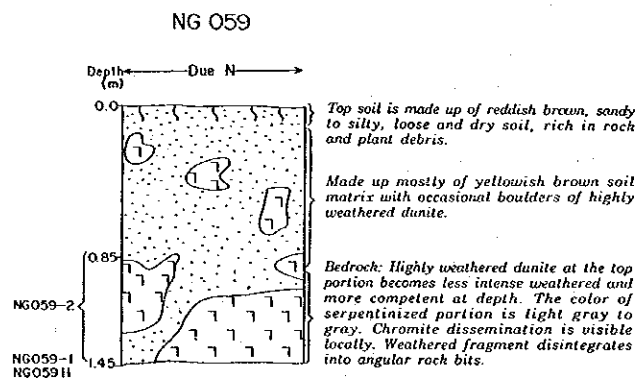
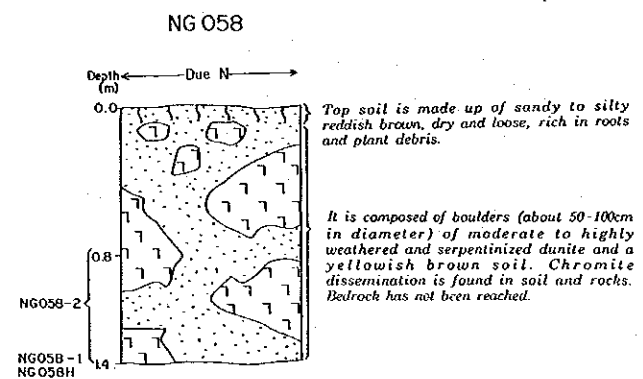
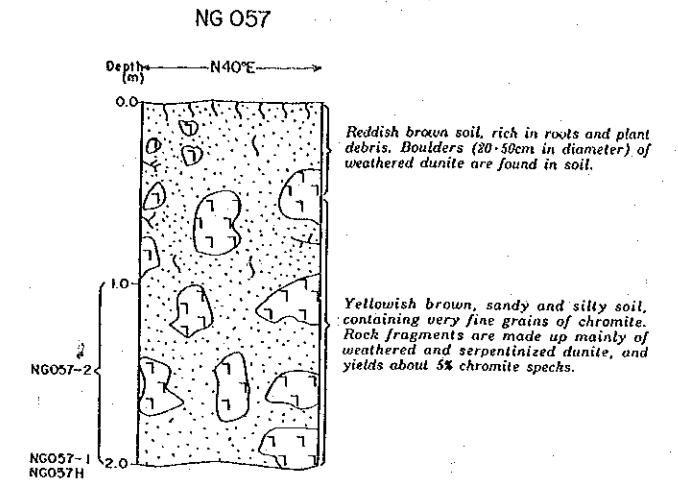
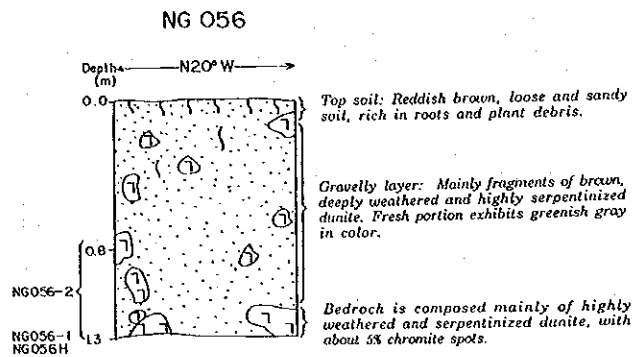
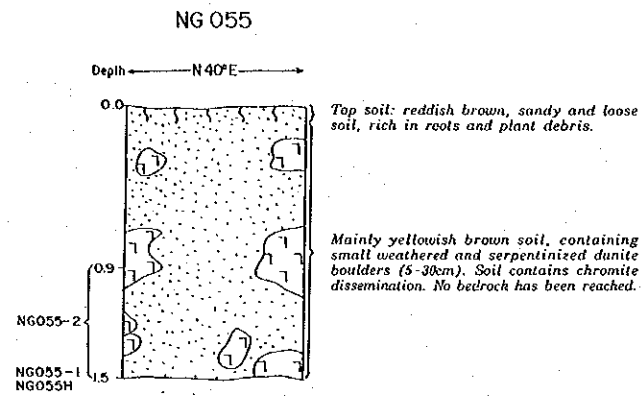
Appendix 13 Profile of test pits in the Mariwara area

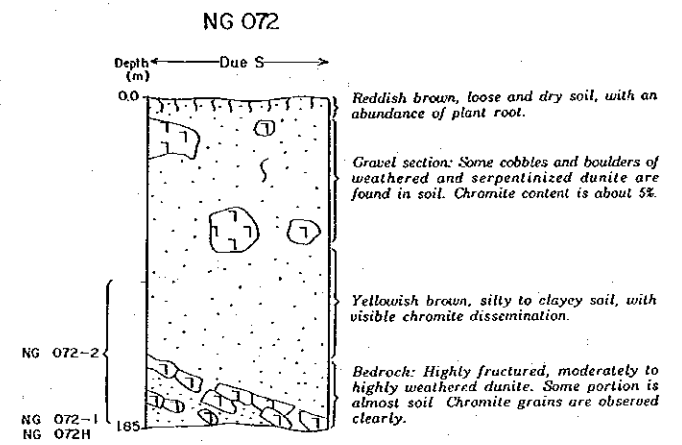
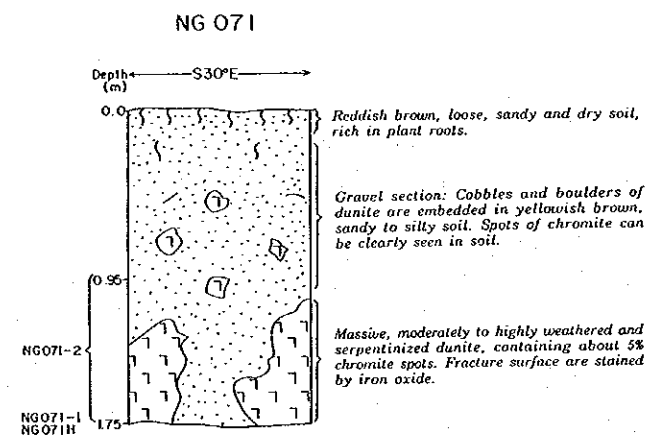
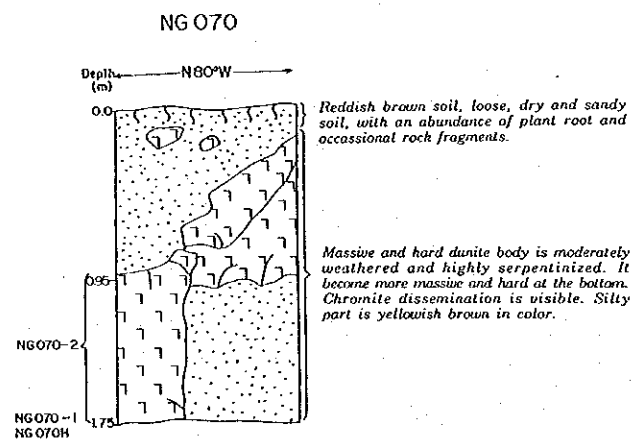
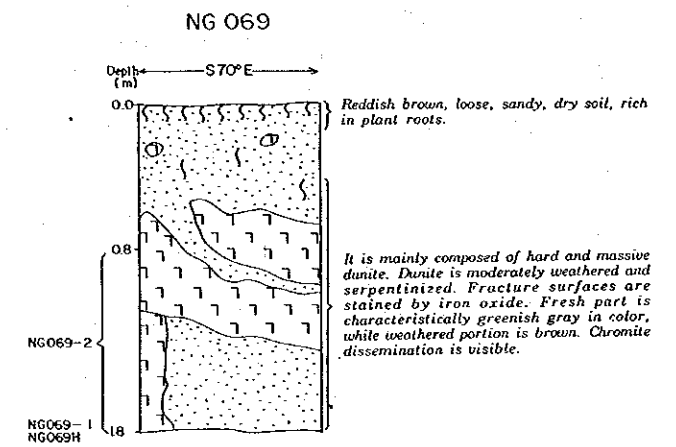
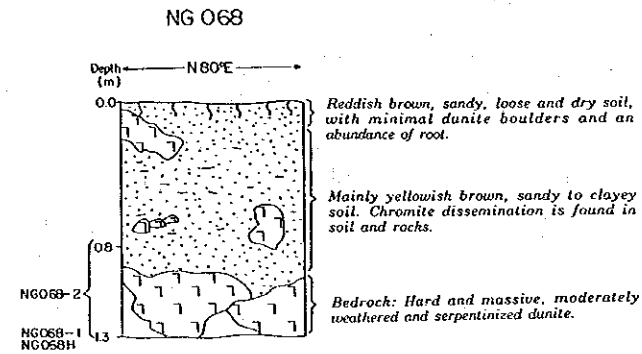
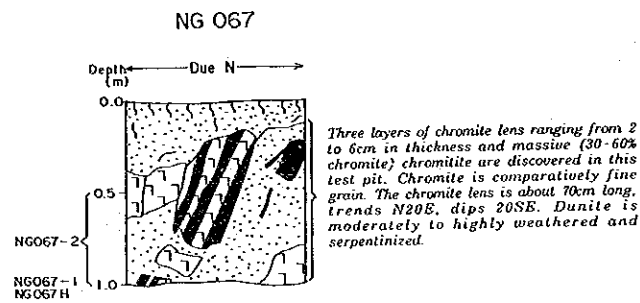
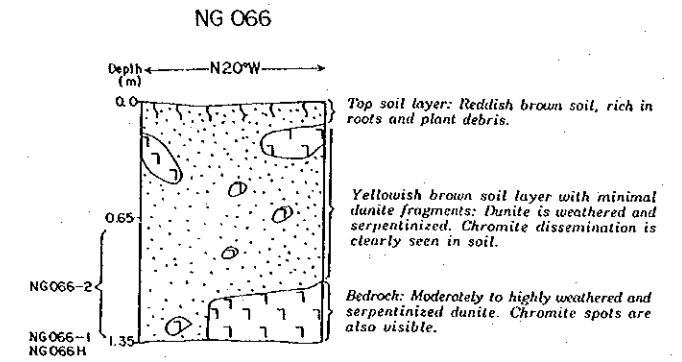
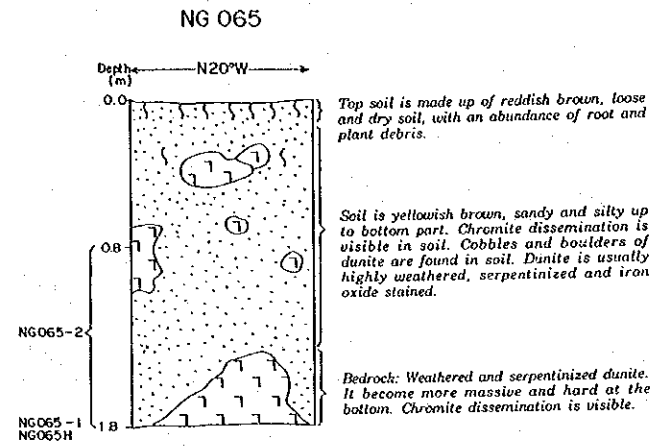
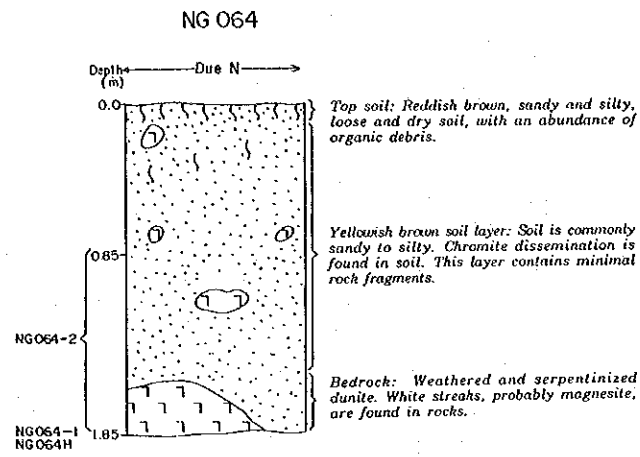


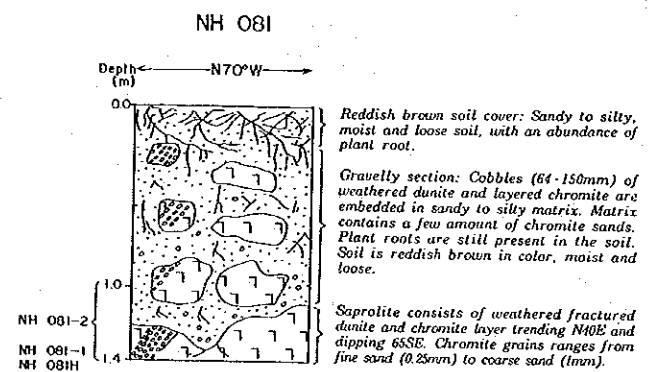
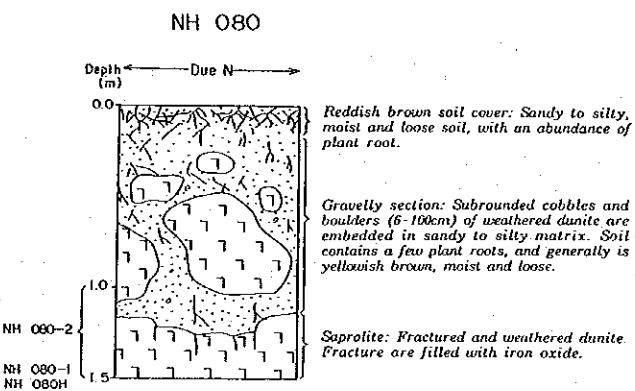
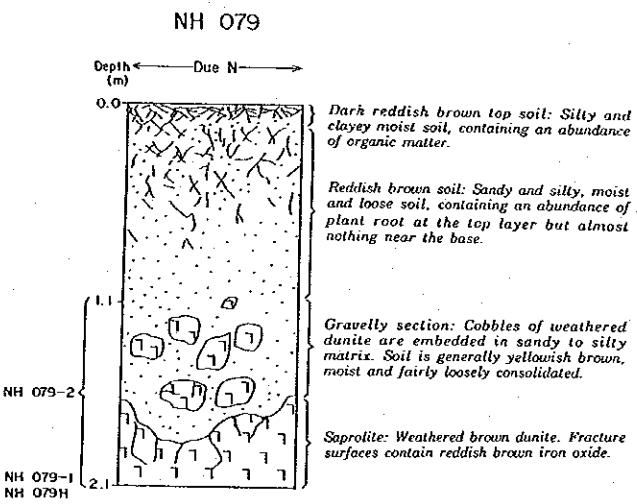
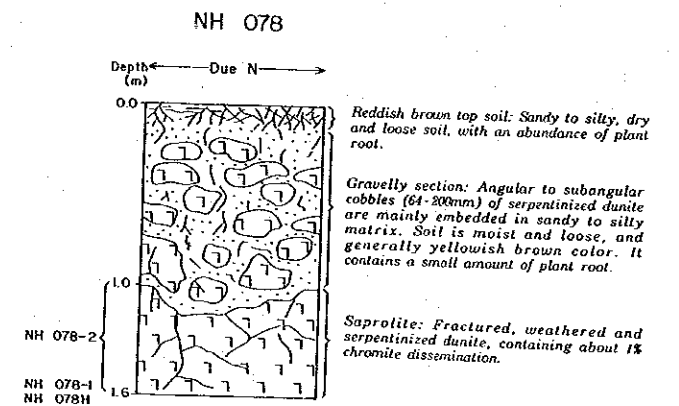
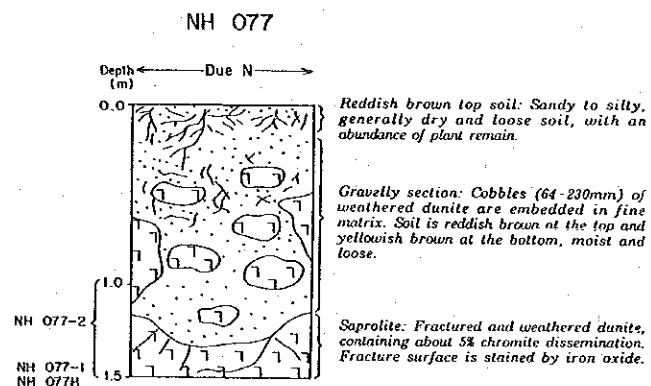
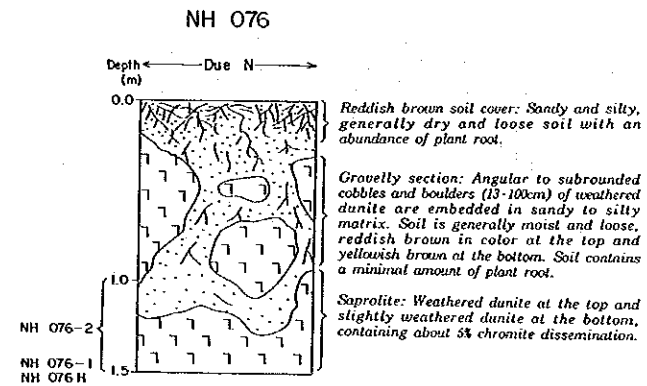
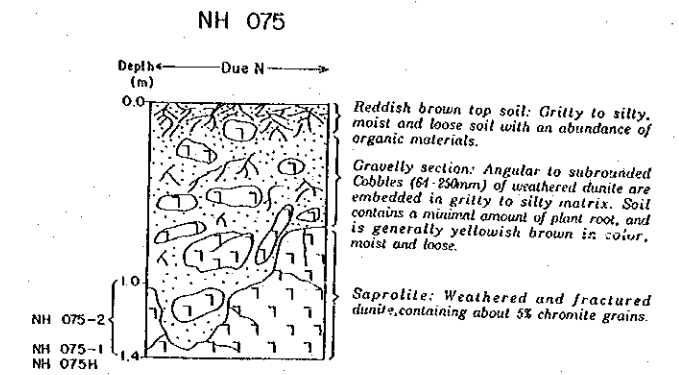
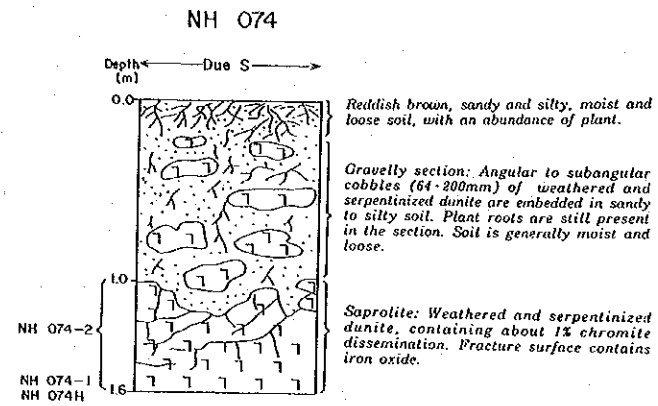
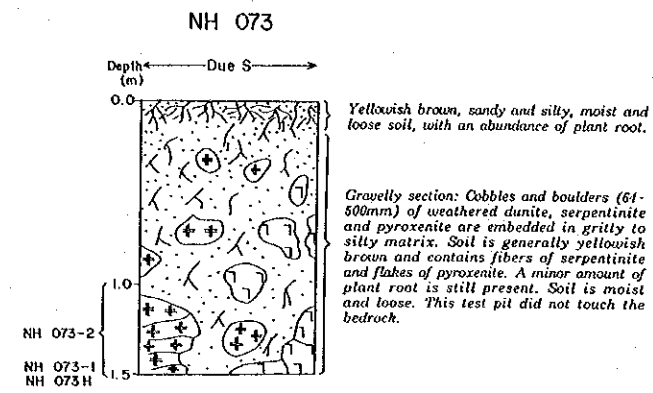




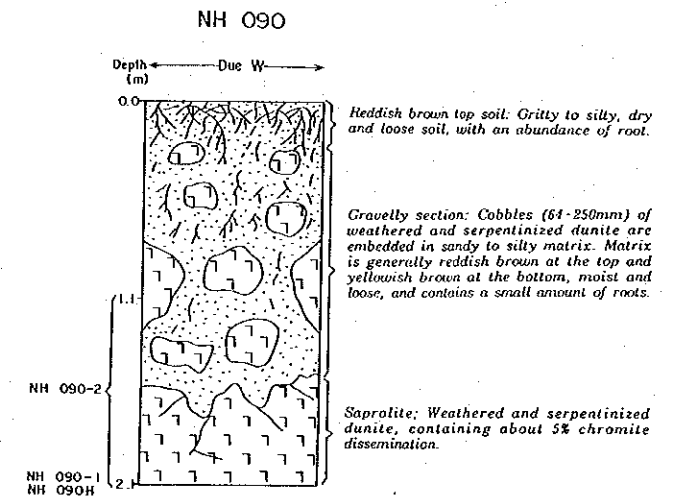
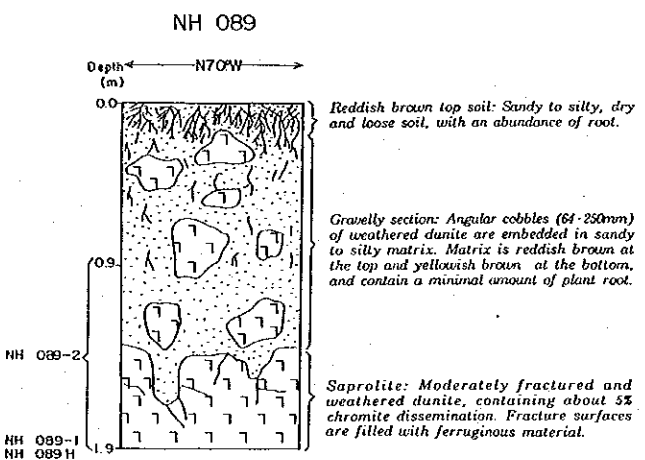
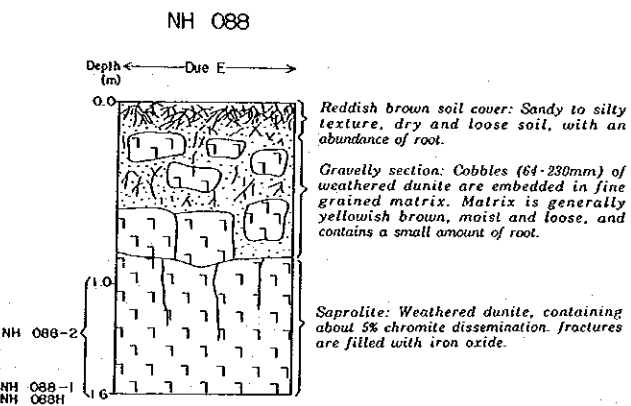
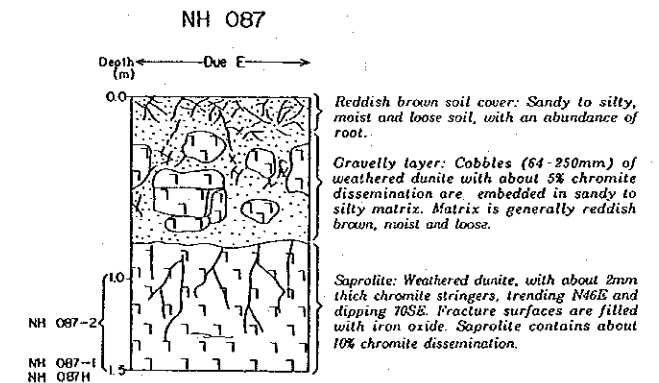
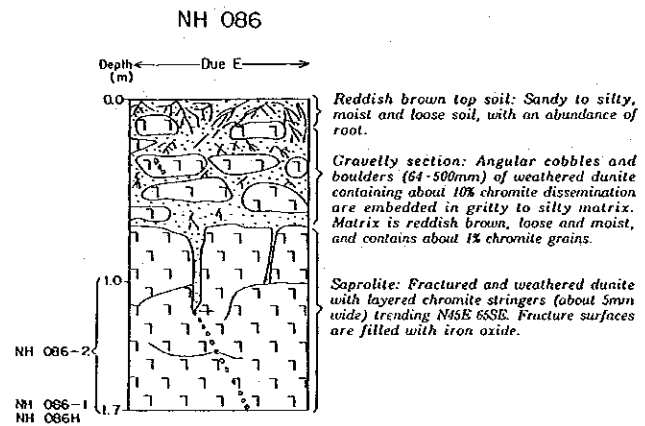
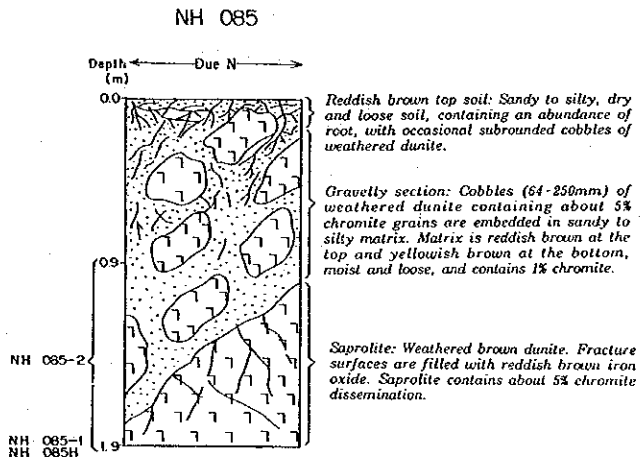
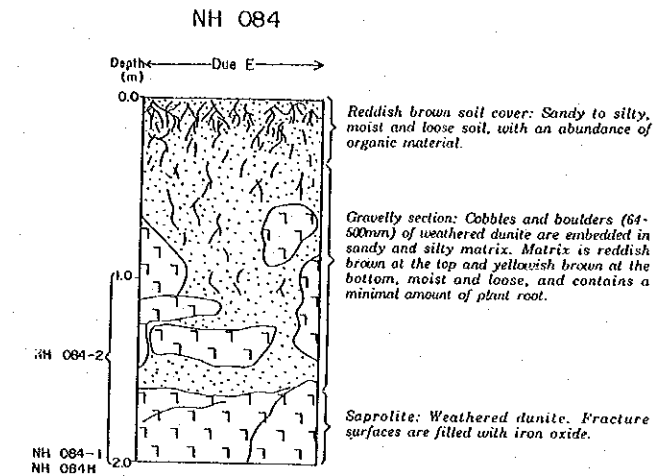
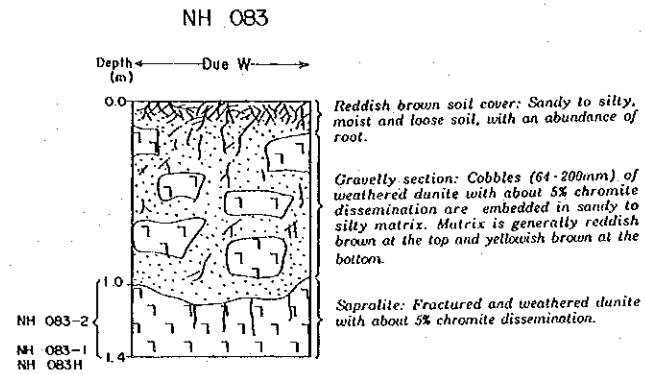
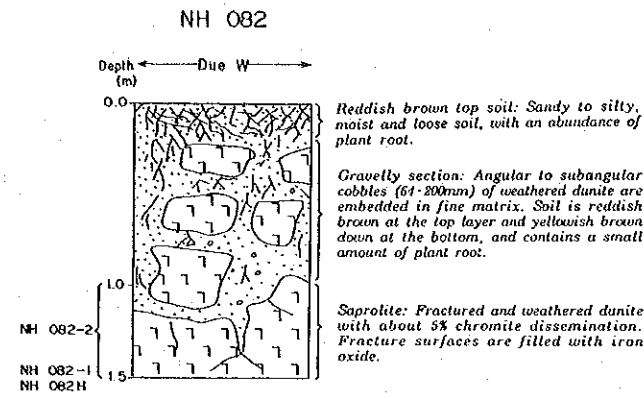


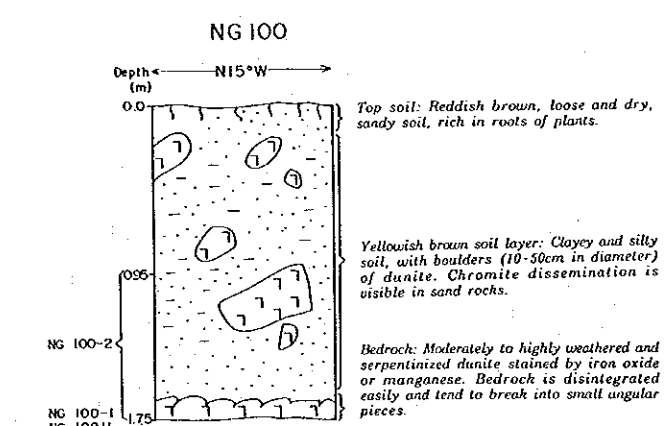
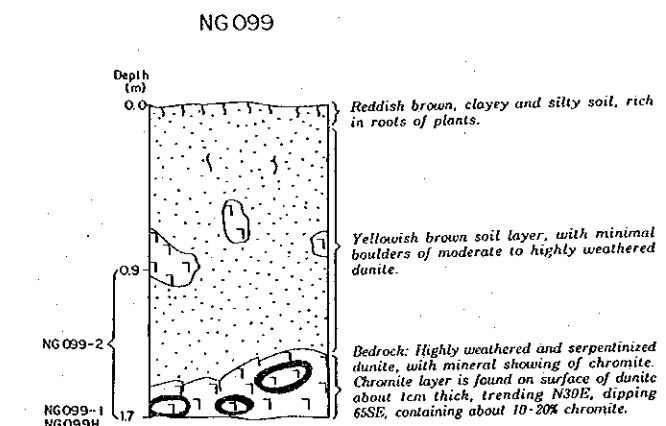
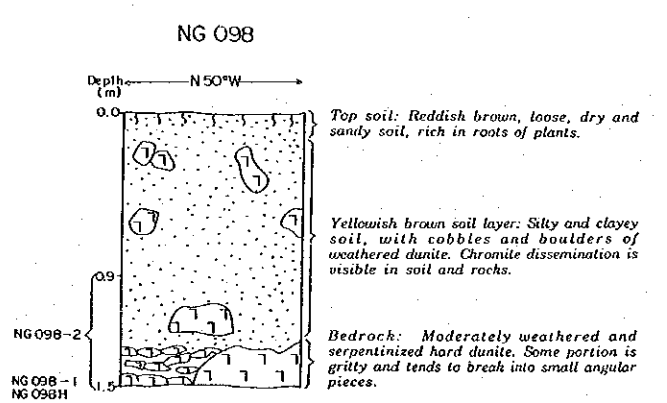
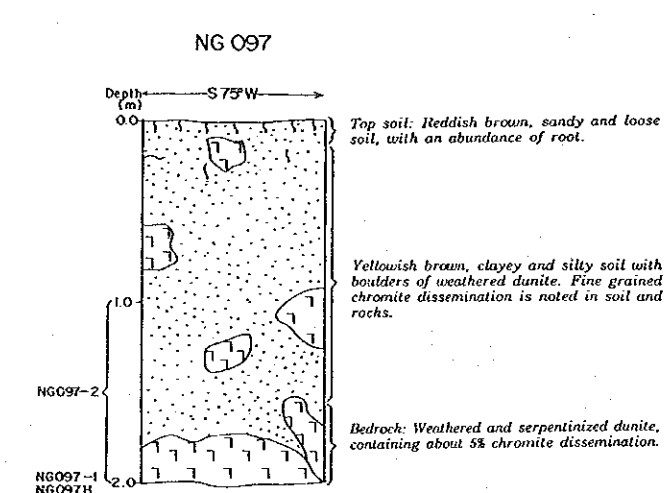
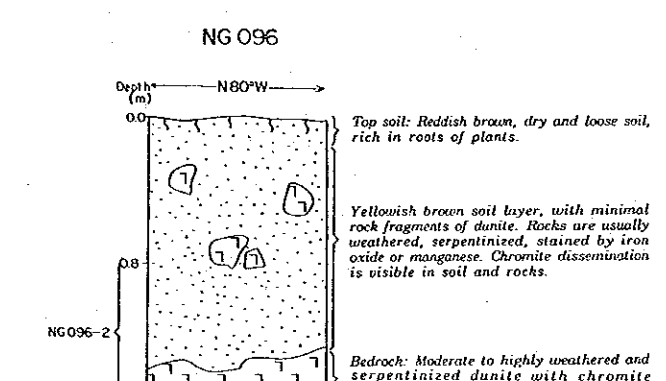
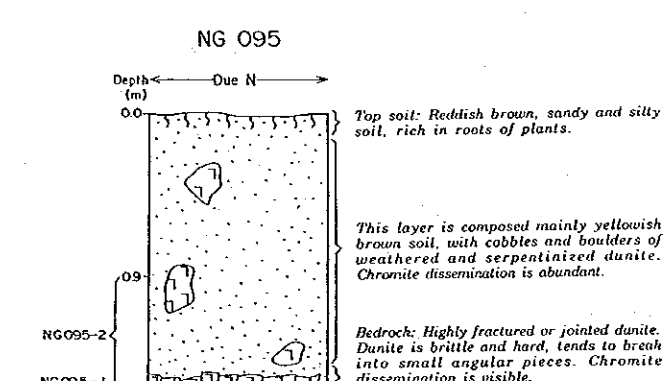
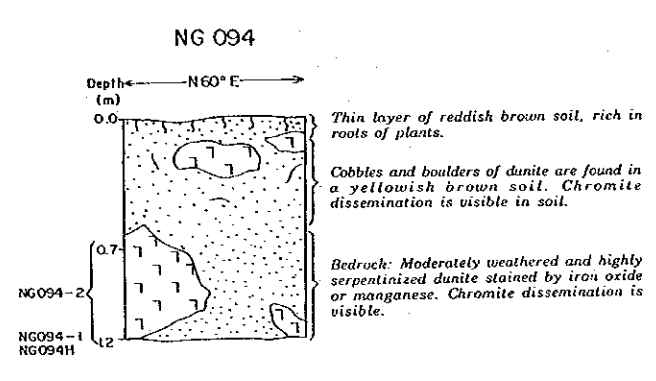
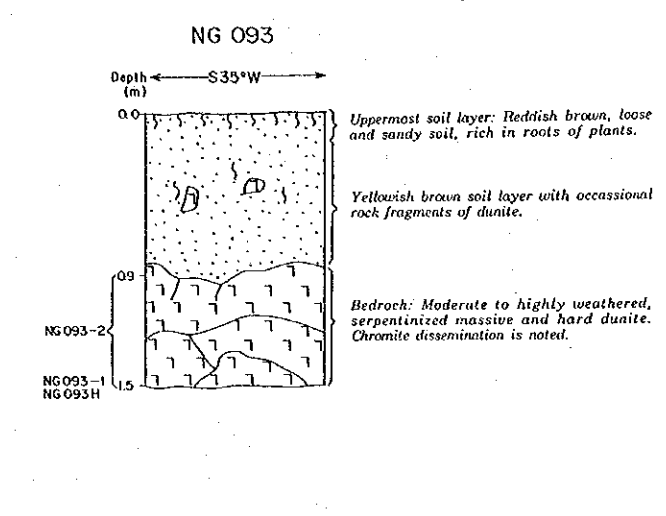
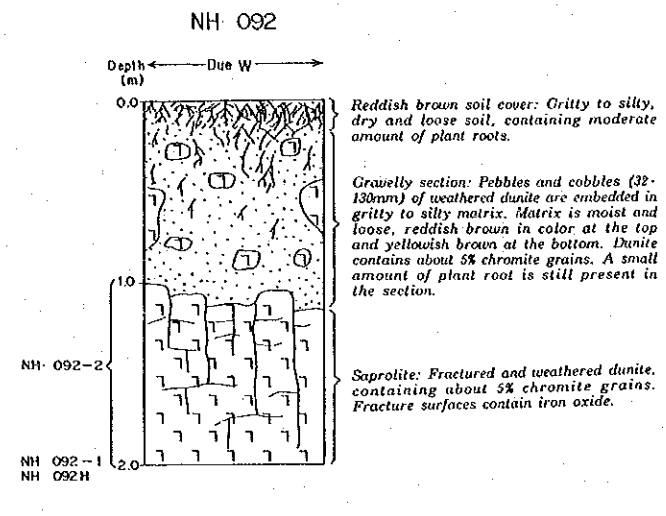
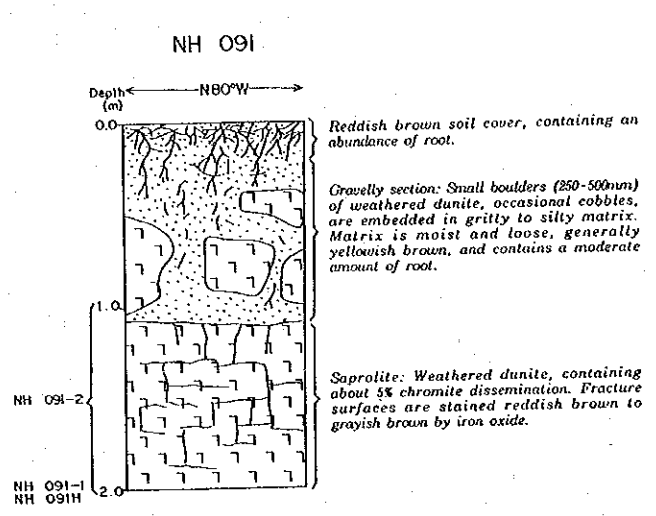






















# Appendix 14 Element content in the Mariwara area

(3)

•45	•15		
•5	30	•25	
•10	80	•50	•15
•20	75	•30	•45
•25	•45	•15	•15
•40	•20	•15	•15
•15	•20	•15	•15
•45	•10	•15	•15
•35	•35	•15	•15
•45	•20	•20	•45
•10	•15	•10	•20
•10	•15	•10	•15
•15	•15	•5	•15
•20	15	•15	•10
•20	10	•10	•10
•15	•15	•10	•10
•20	•10	•10	•10
•20	•10	•5	•5
•15	•10	•5	•5
•45	•10	•5	•5
•45	•70		
•45	•80		
•45	•10		

Pt (ppb)

•42	•42		
•8	•42	•8	
•42	•42	•10	
•4	•42	•42	
•42	•42	•42	
6	•15	•6	•42
6	•15	•6	•42
4	•42	•2	•42
4	•42	•42	•42
10	•24	•42	•42
•4	•42	•8	•42
•10	•10	•8	•10
•10	•10	•10	•12
•4	•42	•6	•42
•4	•42	•8	•42
•4	•42	•16	•42
•4	•42	•14	•42
•4	•4	•8	•12
•42	•42	•8	•42
•8	•8		
•42	•42	•42	•42
•6	•80		
•42	•42		

Au (ppb)

•8	•4		
•8	6		
•8	8	•18	
•10	•4	•12	
•12	•8	•8	
•10	•10	•10	
•8	•8	•12	
•4	•4	•10	
•10	•10	•10	
•10	•10	•12	
•4	•4	•16	
•10	•10	•18	
•4	•4	•8	
•4	•4	•14	
•8	•8	•14	
•12	•12	•8	
•18	•18	•8	
•18	•8	•10	
•35	•4	•12	
•43	•18	•10	
•16	•12	•12	
•18	•12		
•14	•12		
•18	•24		
•30	•12		

Pd (ppb)

•10000	•6000		
•8300	•8800	•1300	
•7800	•8000	•3100	
•7800	•8800	•4000	
•8500	•8600	•7400	
•8200	•8800	•8900	
•8200	•8000	•8000	
•3500	•3700	•7000	
•4900	•8400	•7500	
•8300	•5100	•8500	
•5300	•5700	•3900	
•4700	•4300	•7700	
•5900	•6400	•10300	
•4800	•7100	•8700	
•3700	•7800	•8100	
•5700	•5200	•6500	
•11600	•8400	•4900	
•9800	•8500	•5200	
•8500	•7800	•4100	
•8100	•7600	•4500	
•7800	•5400	•8300	
•5200	•5500	•4900	
•4800	•8400	•4300	
•5800	•5400	•5400	
•5400	•3000		

Ni (ppm)

(One meter channel sample from the bottom to upper portion)





Appendix 14 Element content in the Mariwara area

(4)

Cr (%)	
0.89	1.1
2.6	0.28
0.88	2.3
2.5	0.55
0.55	0.81
1.2	0.45
1.2	0.54
2.7	0.57
0.56	0.84
1.5	0.84
0.28	1.4
0.45	1.1
0.54	0.85
1.0	0.28
0.28	0.23
0.85	0.89
0.38	0.45
0.45	0.38
0.32	0.45
0.41	0.31
0.48	0.47
0.81	0.28
0.24	0.11
0.23	0.24
0.17	0.28
0.50	0.17

Cr (%)

Fe (%)	
18.8	18.1
31.0	14.8
17.7	12.2
23.8	10.0
17.8	14.4
13.1	7.2
17.7	11.2
14.0	12.6
18.3	18.7
17.6	16.2
11.4	17.7
17.7	15.8
12.1	18.4
10.4	12.9
13.2	21.0
11.0	15.8
13.2	18.1
11.8	27.2
13.8	13.8
11.8	16.4
14.1	13.8
15.8	13.8
18.4	14.4
24.2	13.4
15.1	13.3
20.5	8.5
17.5	8.8
10.2	15.4
15.7	10.2
18.4	10.8
14.0	18.4
15.8	10.6

Fe (%)

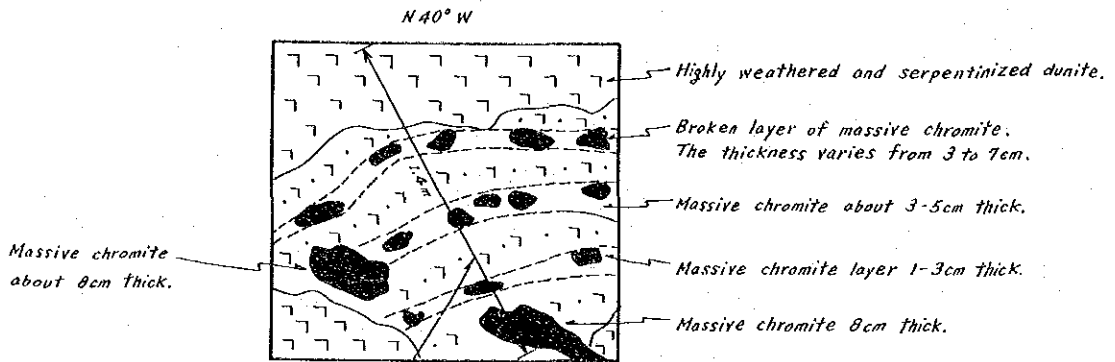
(Sample at the bottom of test pit)

Co (ppm)	
370	330
260	260
800	164
310	380
520	200
550	250
230	260
280	280
450	200
380	310
240	240
360	300
220	350
220	240
380	280
320	340
280	185
230	230
230	240
480	280
310	270
383	360
410	250
510	260
330	189
240	153
250	280
310	300
280	187
300	240

Co (ppm)



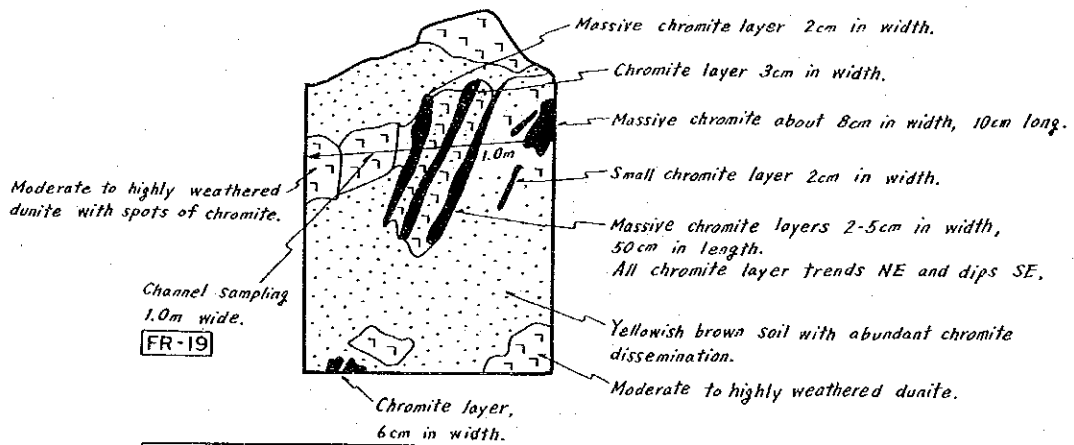
### NG 034 (Bottom)



Channel sampling  
1.4m wide.

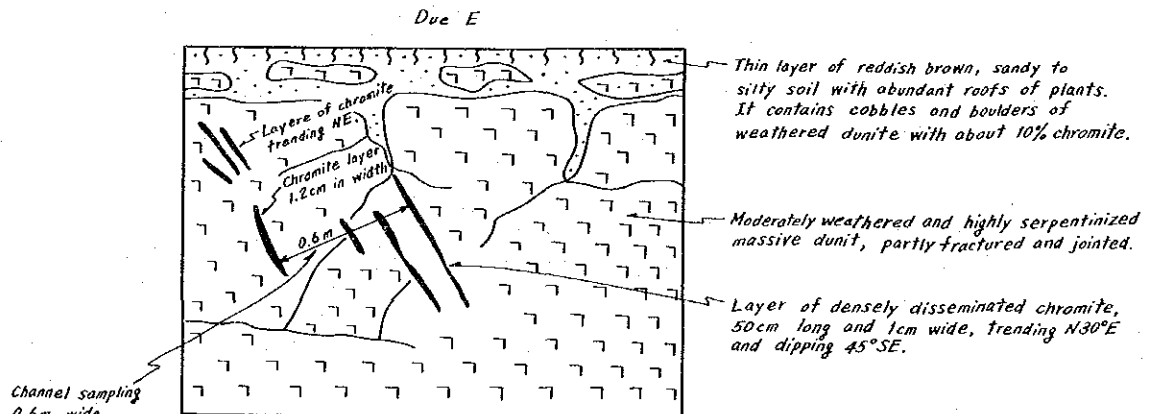
FR-17	Cr <sub>2</sub> O <sub>3</sub> (%)	Ni (%)	Fe (%)	Al <sub>2</sub> O <sub>3</sub> (%)	SiO <sub>2</sub> (%)
	26.70	0.21	9.44	23.9	11.10

### NG 067 (Bottom)



FR-19	Cr <sub>2</sub> O <sub>3</sub> (%)	Ni (%)	Fe (%)	Al <sub>2</sub> O <sub>3</sub> (%)	SiO <sub>2</sub> (%)
	17.20	0.38	8.75	14.50	19.70

### NH 086



Channel sampling  
0.6m wide

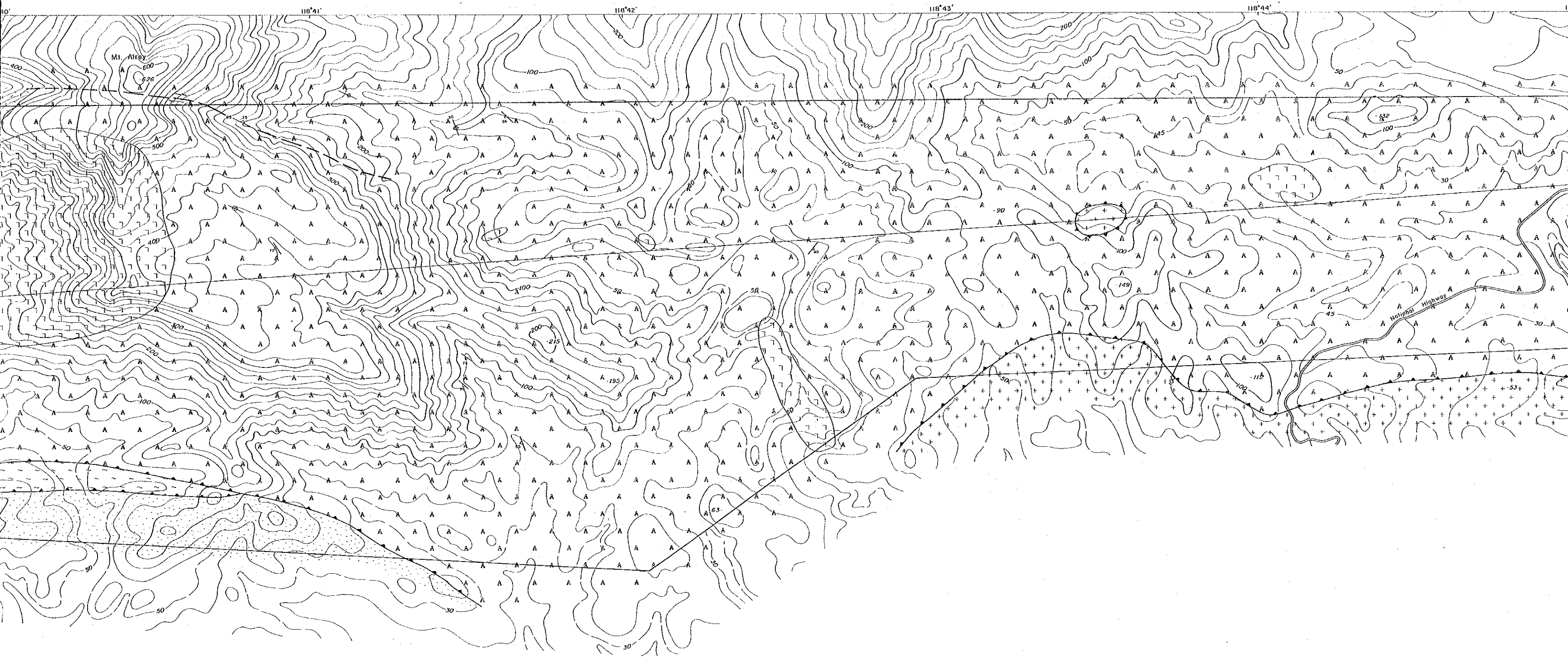
FR-18	Cr <sub>2</sub> O <sub>3</sub> (%)	Ni (%)	Fe (%)	Al <sub>2</sub> O <sub>3</sub> (%)	SiO <sub>2</sub> (%)
	3.09	0.29	6.42	6.32	38.40

Scale 1:30

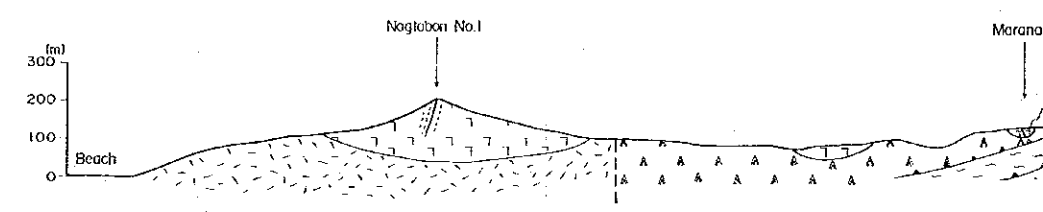








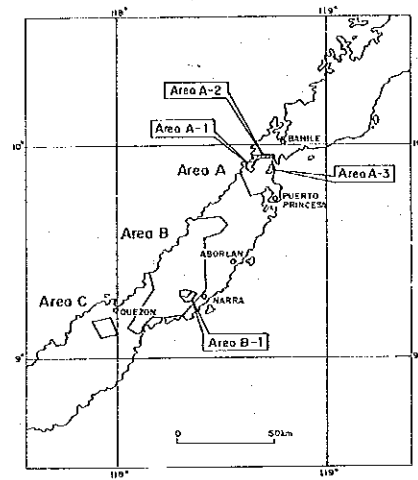
A — A'



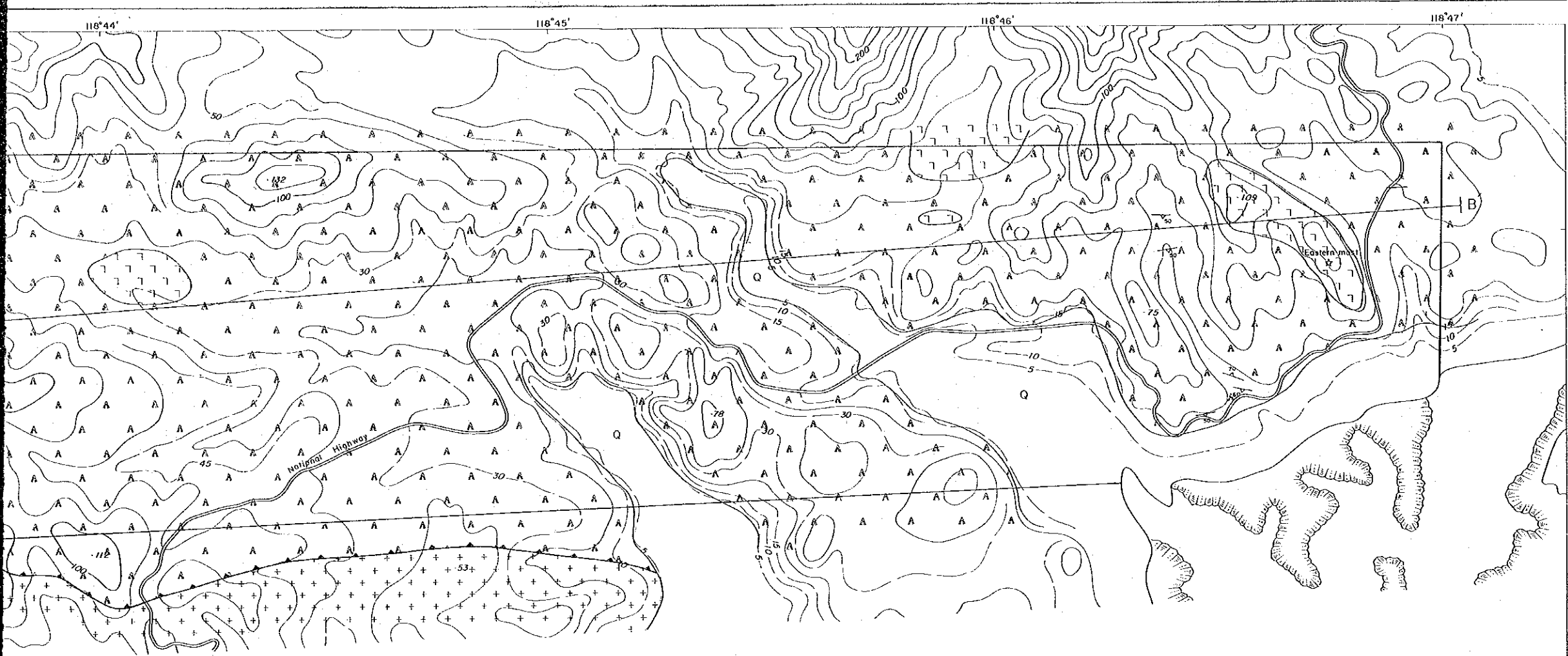
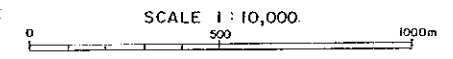
B — B'

GEOLOGICAL ASSESSMENT OF CHROMITE, BASE METALS,  
PLATINUM AND RELATED PRECIOUS METAL OCCURRENCES  
IN  
SOUTH CENTRAL PALAWAN, THE PHILIPPINES.

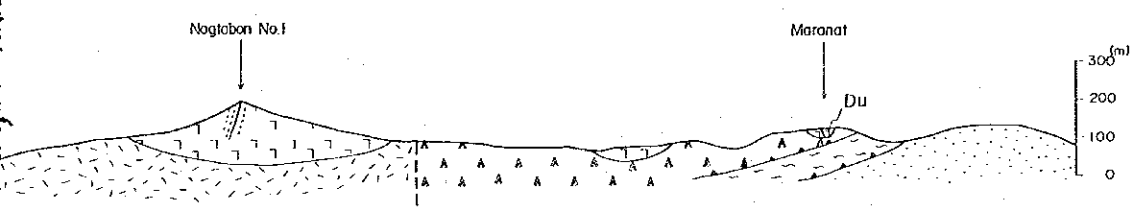
GEOLOGIC MAP AND PROFILE  
IN AREA A-2



JAPAN INTERNATIONAL COOPERATION AGENCY  
METAL MINING AGENCY OF JAPAN  
1992

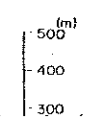


A — A'

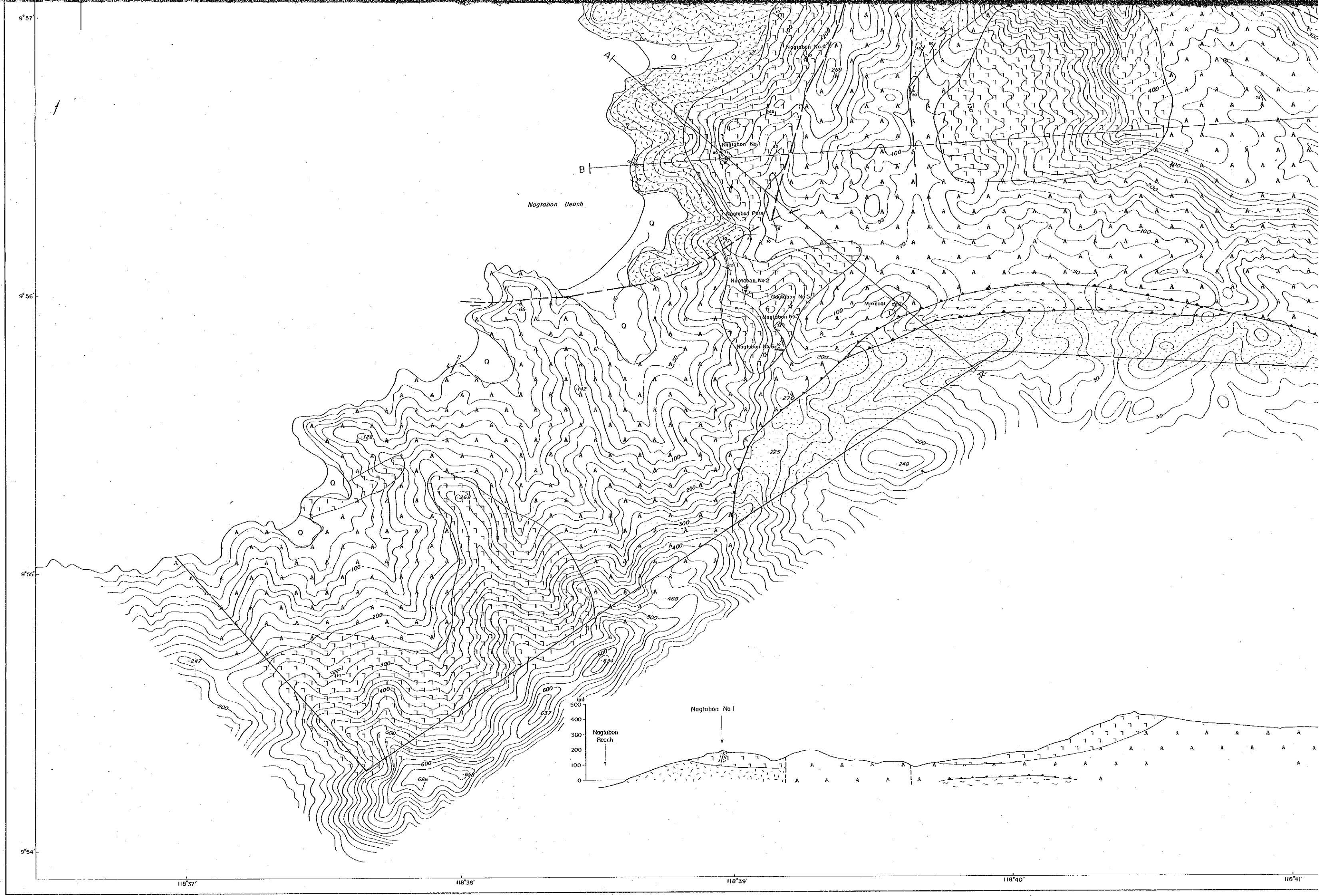


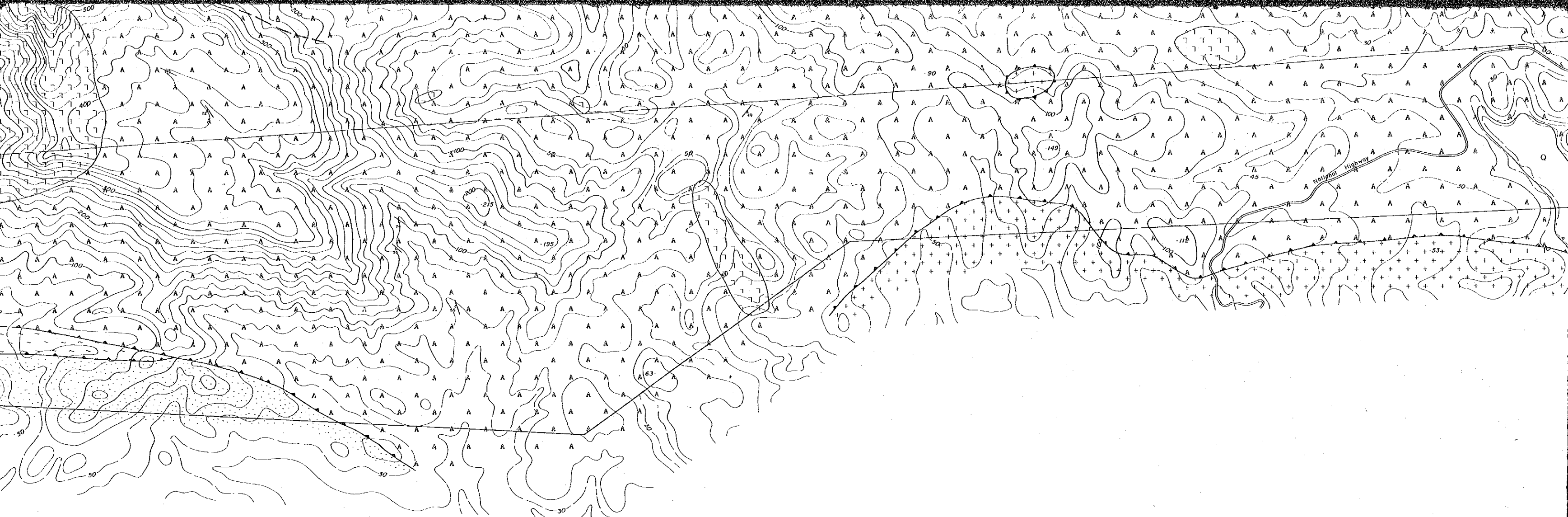
LEGEND

- Alluvium Gravel, sand and silt
- Sulu Sea Mine Formation Chert, conglomelate and sandstone with basaltic lava and tuff breccia
- Dike Fine grained gabbro
- San Vicente Gabbro Isotropic and layered gabbro
- Mt. Beaufort Ultramafics Pyroxenite rich dunite
- Dunite
- Harzburgite
- Inagaun Metamorphics Quartz schist
- Structures Foliation of pyroxene
- Foliation of chromite
- Thrust
- High angle fault (inferred)
- Others Open pit
- Chromite occurrence

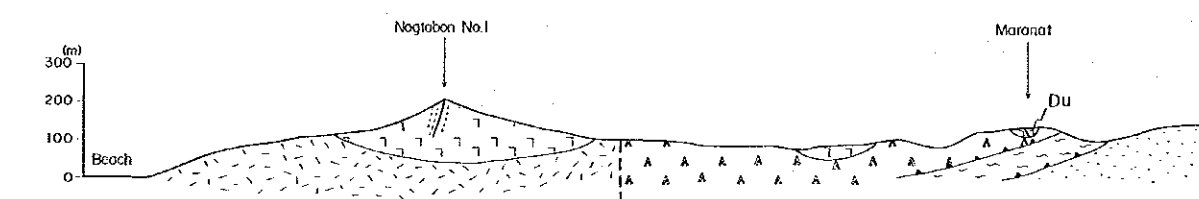




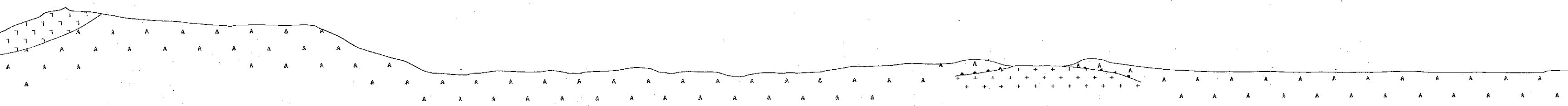




A — A'



B — B'



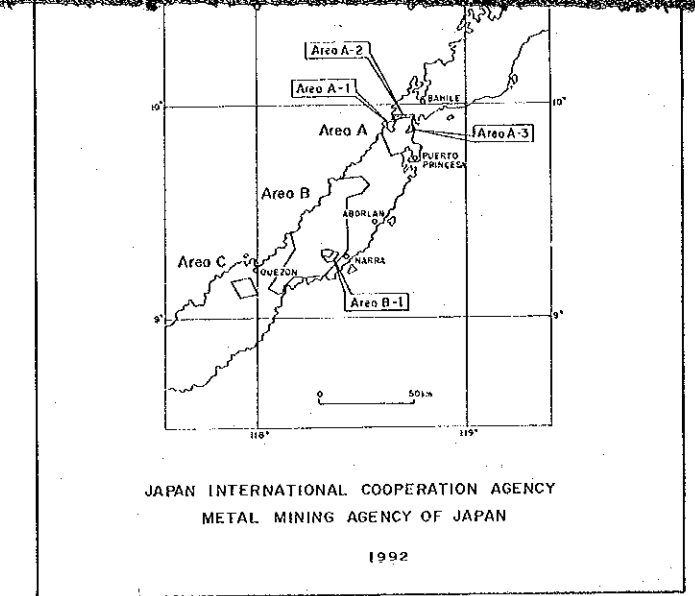
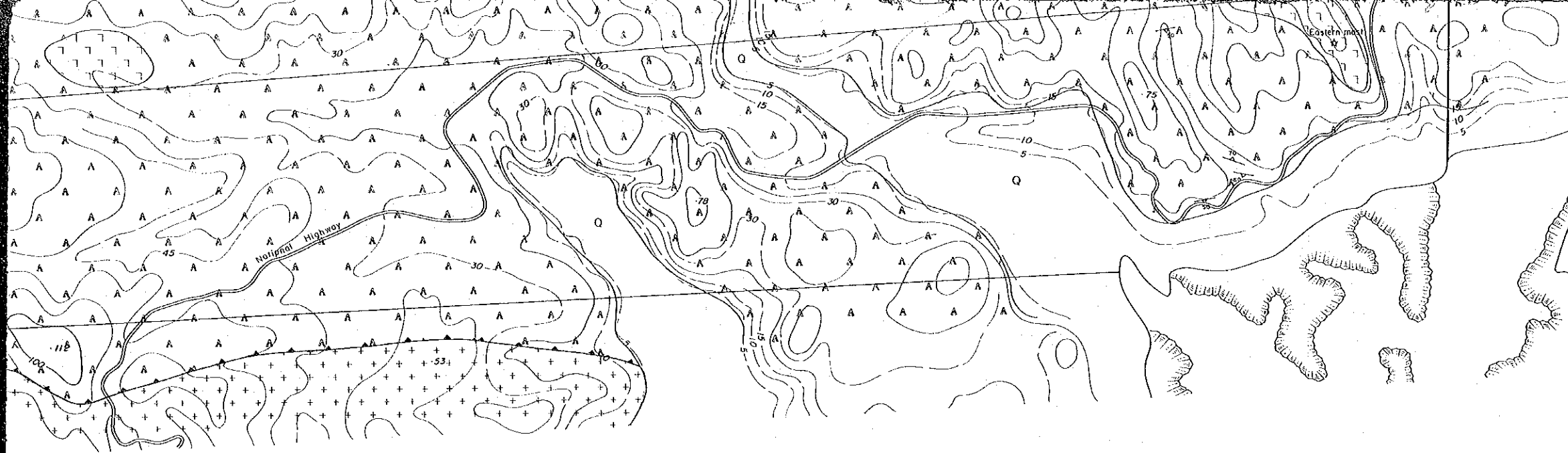
118°41'

118°42'

118°43'

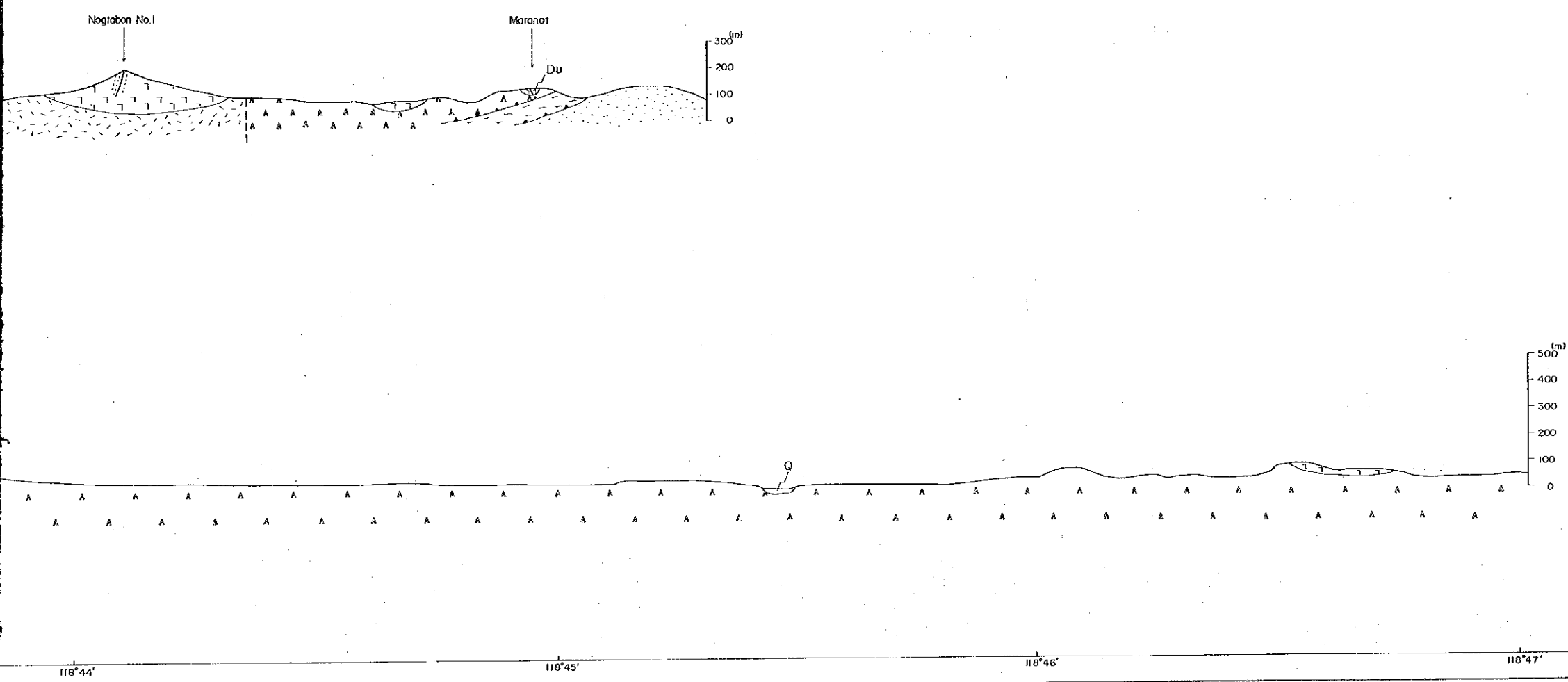
118°44'

118°45'



SCALE 1:10,000  
0 500 1000m

A — A'



LEGEND

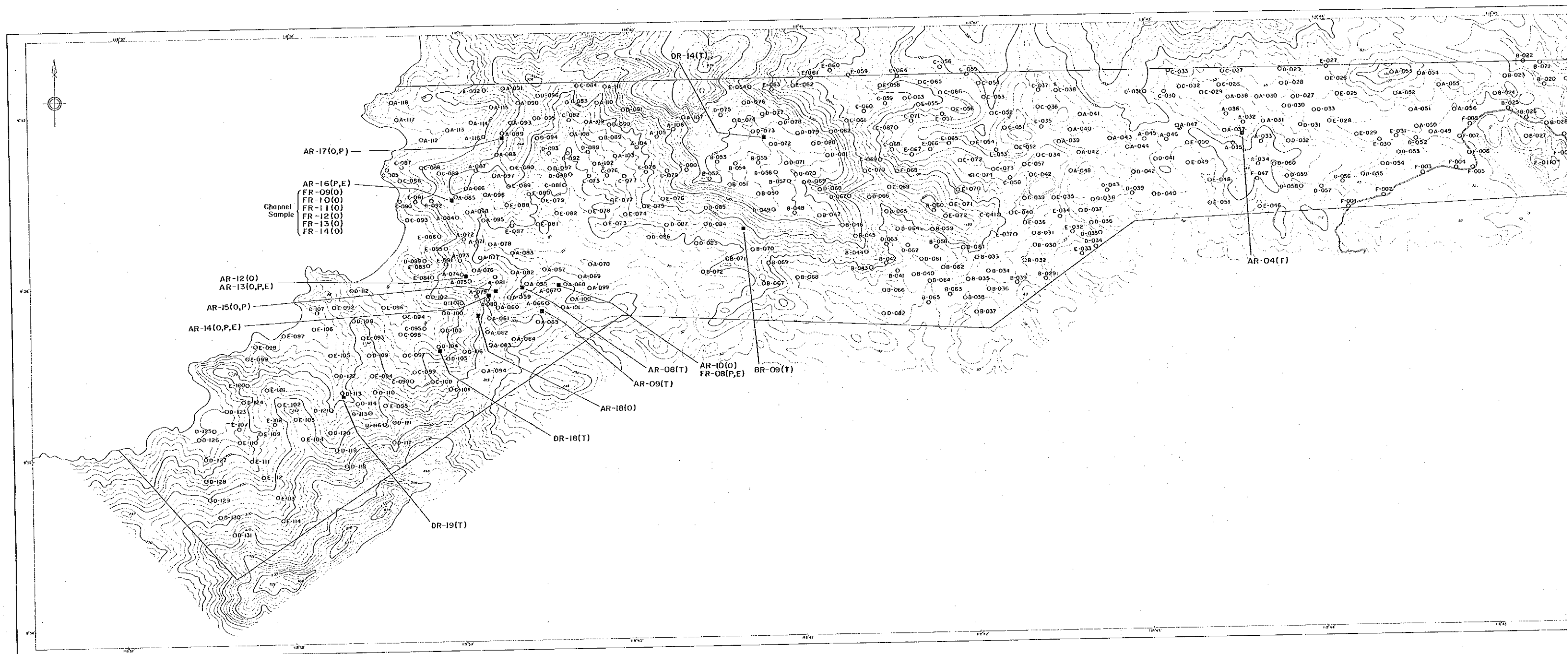
- Alluvium Q Gravel, sand and silt
- Sulu Sea Mine Formation Chert, conglomerate and sandstone with basaltic lava and tuff breccia
- Dike Fine grained gabbro
- San Vicente Gabbro Isotropic and layered gabbro
- Mt. Beaufort Ultramafics Pyroxenite rich dunite
- Dunite
- Harzburgite
- Inagaon Metamorphics Quartz schist
- Structures Foliation of pyroxene
- Foliation of chromite
- Thrust
- High angle fault (inferred)
- Others Open pit
- Chromite occurrence
- Geologic profile line

118°44' 118°45' 118°46' 118°47'

9°56'

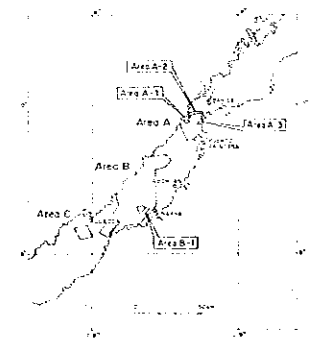
9°55'

9°54'



GEOLOGICAL ASSESSMENT OF CHROMITE, BASE METALS,  
PLATINUM AND RELATED PRECIOUS METAL OCCURRENCES  
IN  
SOUTH CENTRAL PALAWAN, THE PHILIPPINES

LOCALITY MAP OF ROCK AND GEOCHEMICAL  
SOIL SAMPLES IN AREA A-2

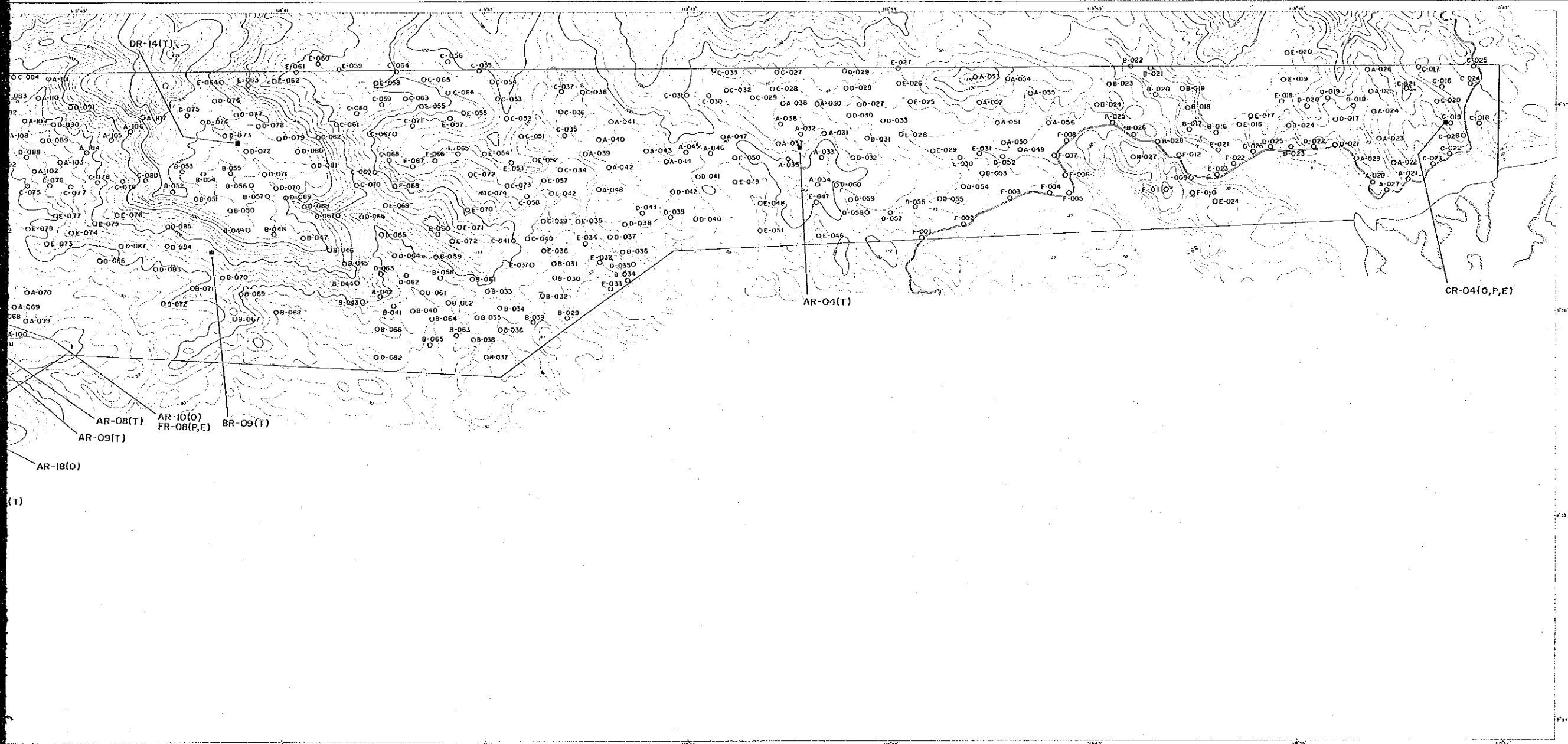


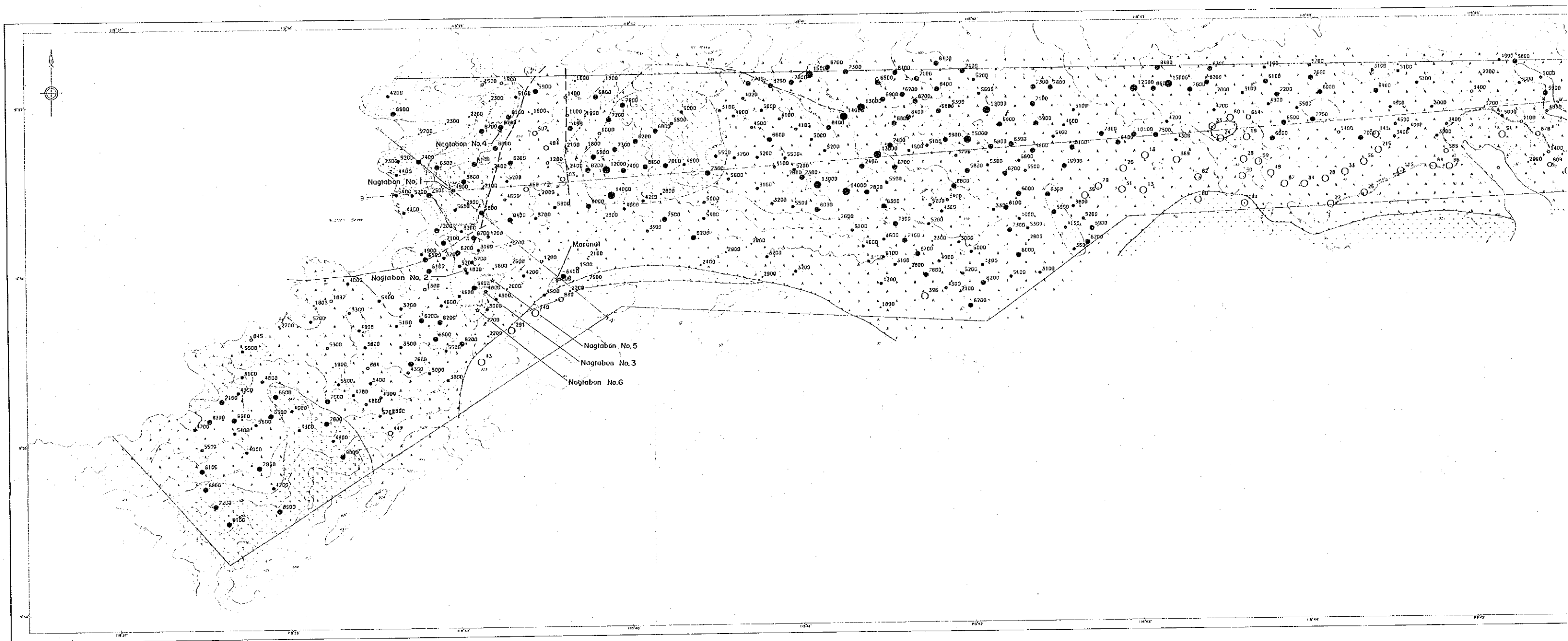
JAPAN INTERNATIONAL COOPERATION AGENCY  
METAL MINING AGENCY OF JAPAN  
1992

SCALE 1:20,000  
0 500 1000m

LEGEND

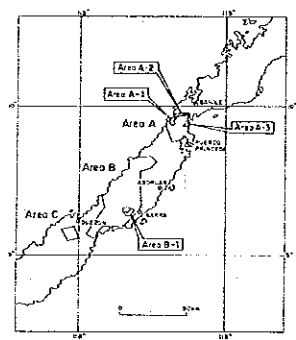
- F-001 Soil Sample Number
- AR-15(O, T, P, E) Rock Sample Number
  - ├── EPMA
  - ├── Polished Thin Section
  - ├── Thin Section
  - └── Ore Assay



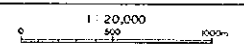


GEOLOGICAL ASSESSMENT OF CHROMITE, BASE METALS,  
PLATINUM AND RELATED PRECIOUS METAL OCCURRENCES  
IN  
SOUTH CENTRAL PALAWAN, THE PHILIPPINES.

Ni CONTENT OF SOIL SAMPLES  
IN AREA A-2

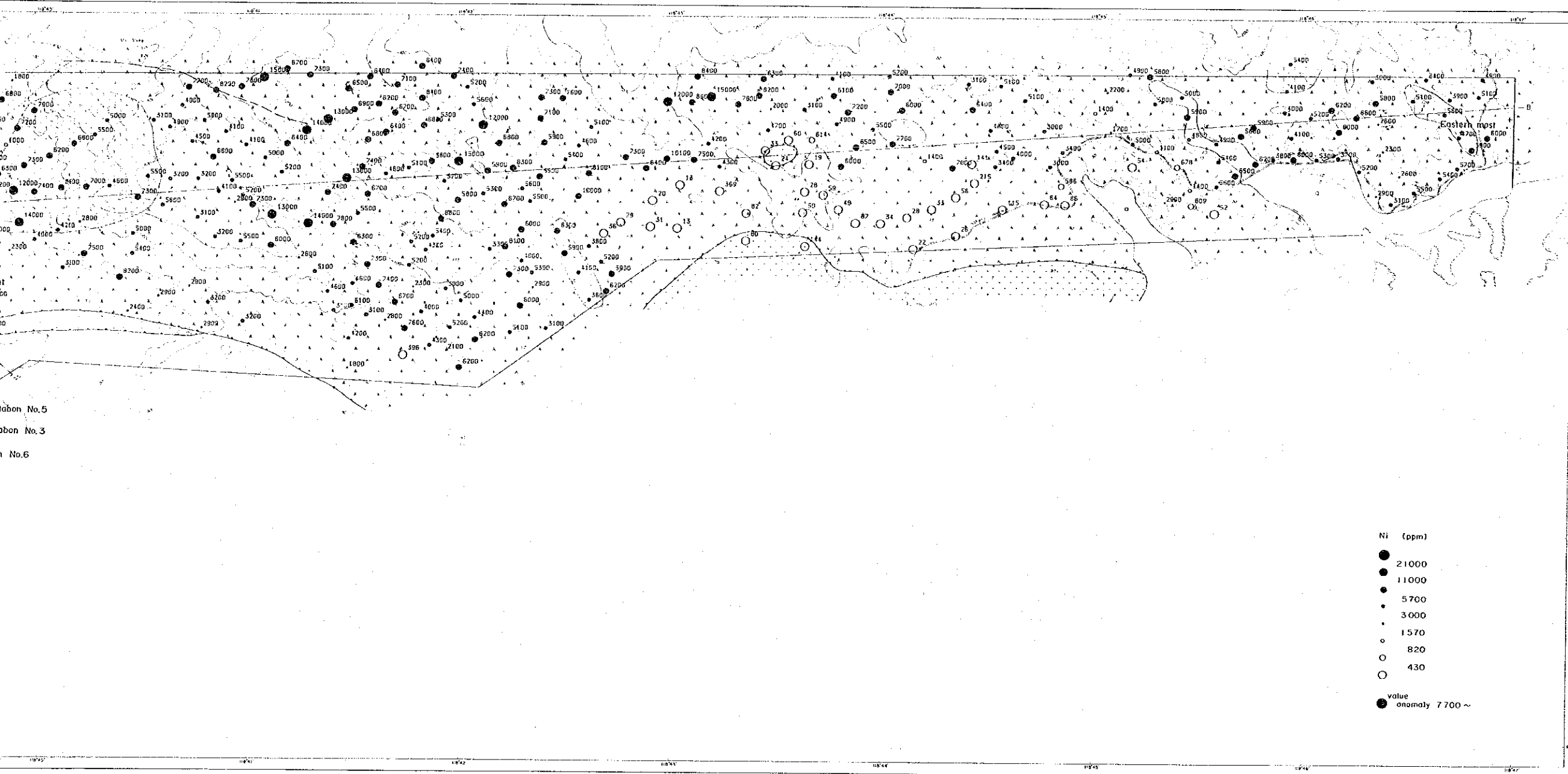


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1992



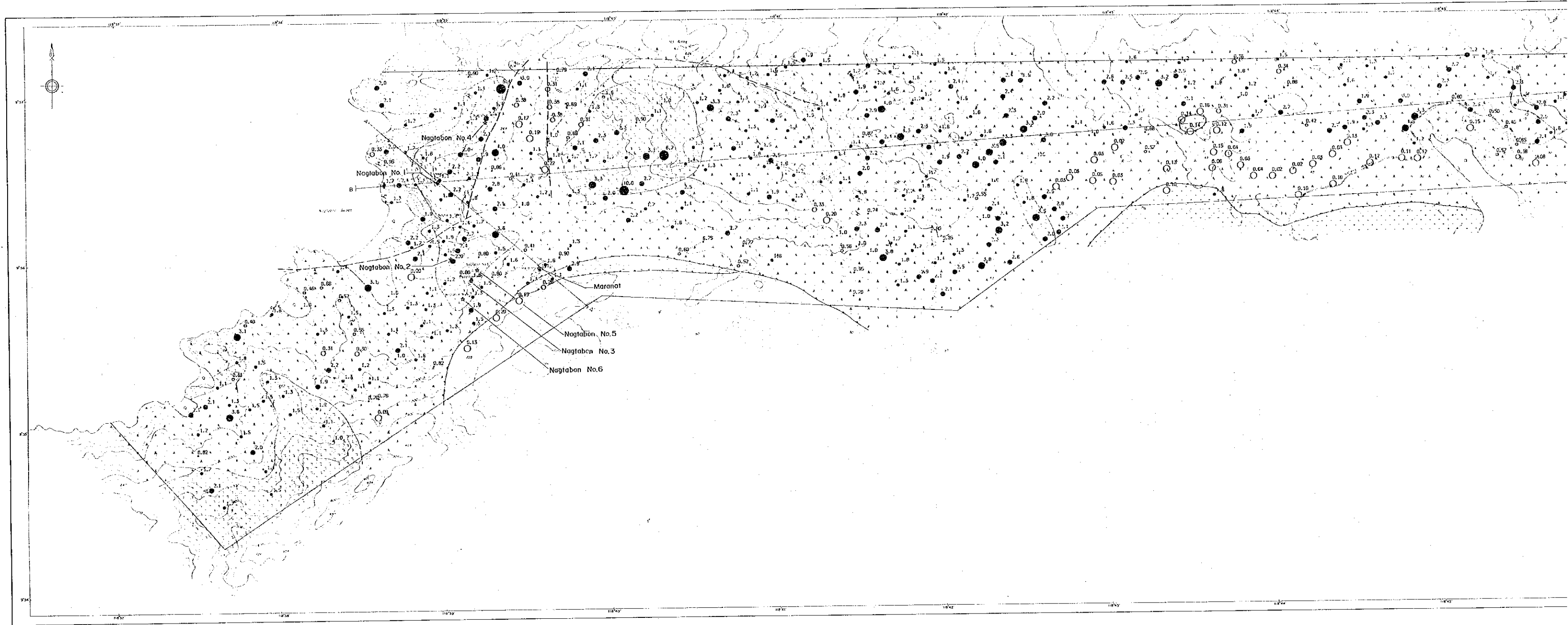
- LEGEND
- Alluvium: □ Gravel, sand and silt
  - Sulu Sea More Formation: □ Ore (logansite and variscite) with barite, hematite and sulfide
  - Dike: ▨ Fine grained gabbro
  - Sulu-More Gabbro: ▨ Isomeric and layered gabbro
  - Pyroxene rich diorite: ▨ Pyroxene rich diorite
  - Amphibole Ultramylonite: ▨ Diorite
  - Harzburgite: ▨ Harzburgite
  - Pyroxene Metamorphics: ▨ Quartz schist
  - Structures: ▨ Rotation of pyroxene
  - ▨ Rotation of chromite
  - ▨ Thrust
  - ▨ High angle fault (normal)
  - Others: ○ Open pit
  - ▨ Chromite occurrence
  - ▨ Geological profile line

- Ni (ppm)
- 21000
  - 11000
  - 5700
  - 3000
  - 1570
  - 820
  - 430
  - value anomaly 7700 ~



Station No.5  
Station No.3  
Station No.6

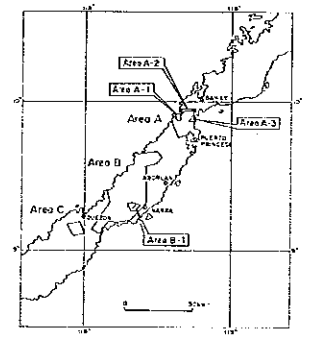




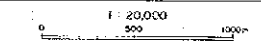


GEOLOGICAL ASSESSMENT OF CHROMITE, BASE METALS, PLATINUM AND RELATED PRECIOUS METAL OCCURRENCES IN SOUTH CENTRAL PALAWAN, THE PHILIPPINES.

Cr CONTENT OF SOIL SAMPLES IN AREA A-2



JAPAN INTERNATIONAL COOPERATION AGENCY METAL MINING AGENCY OF JAPAN 1992

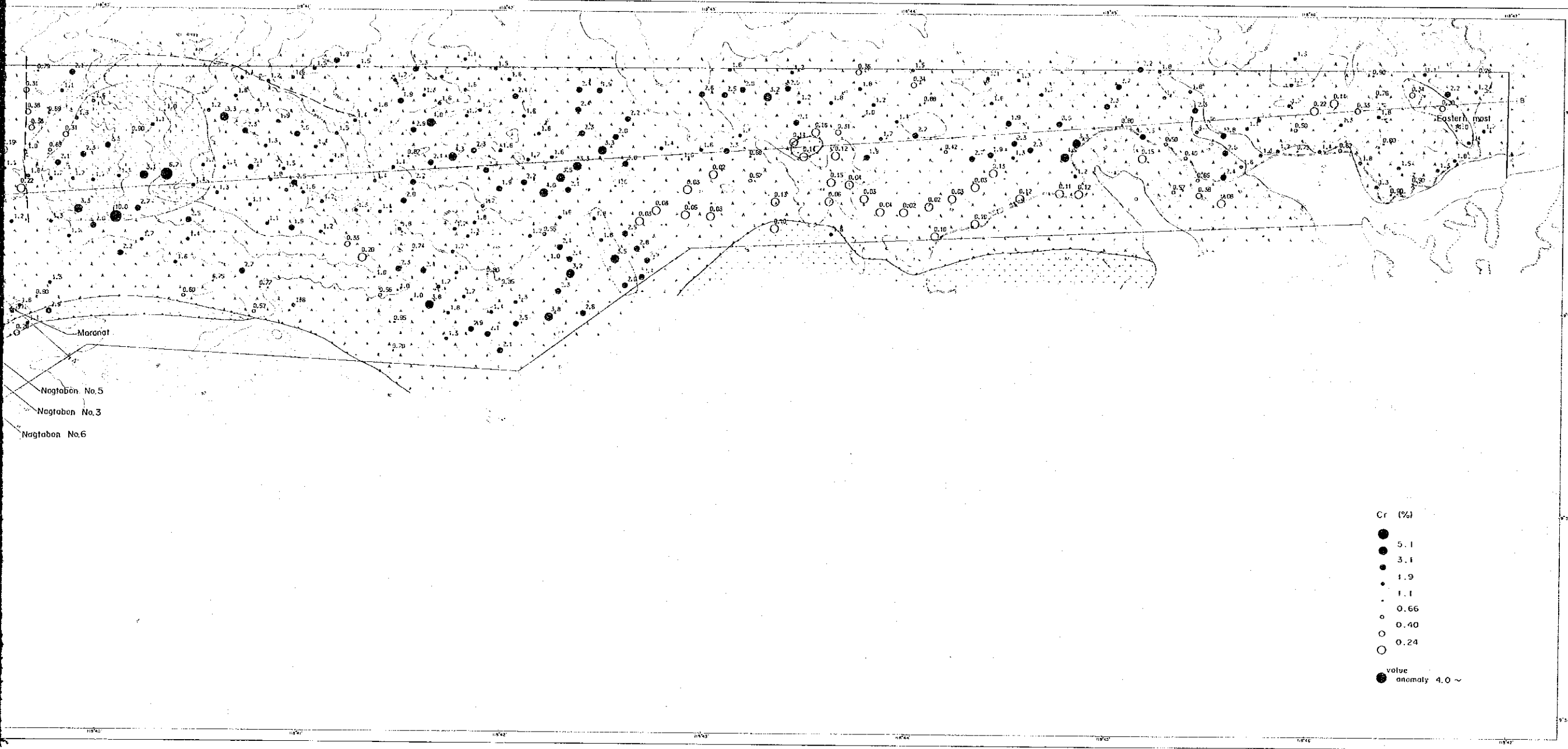


LEGEND

- Aluminum: □ Gneiss, sand and silt
- Sulu Sea Vase Formation: □ Chert, calcarenite and sandstone with blocky limestone and reef breccia
- Dike: □ Fire gneiss gabbro
- San Vicente Gabbro: □ Isotropic and layered gabbro
- Amboyston Ultramylonite: □ Mylonitic rock diorite
- Progonite Metamorphics: □ Diorite, Hornblende
- Structures: □ Quartz schist
- Others: □ Rotation of cylinder, Rotation of diorite, Thrust, High angle fault (inferred), Open pit, Chromite occurrence, Geologic profile line

Cr (%)

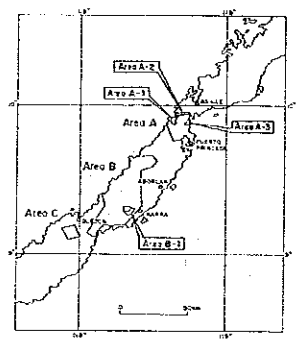
- 5.1
- 3.1
- 1.9
- 1.1
- 0.66
- 0.40
- 0.24
- value anomaly 4.0 ~





GEOLOGICAL ASSESSMENT OF CHROMITE, BASE METALS,  
PLATINUM AND RELATED PRECIOUS METAL OCCURRENCES  
IN  
SOUTH CENTRAL PALAWAN, THE PHILIPPINES

INTERPRETATION MAP OF AREA A-2

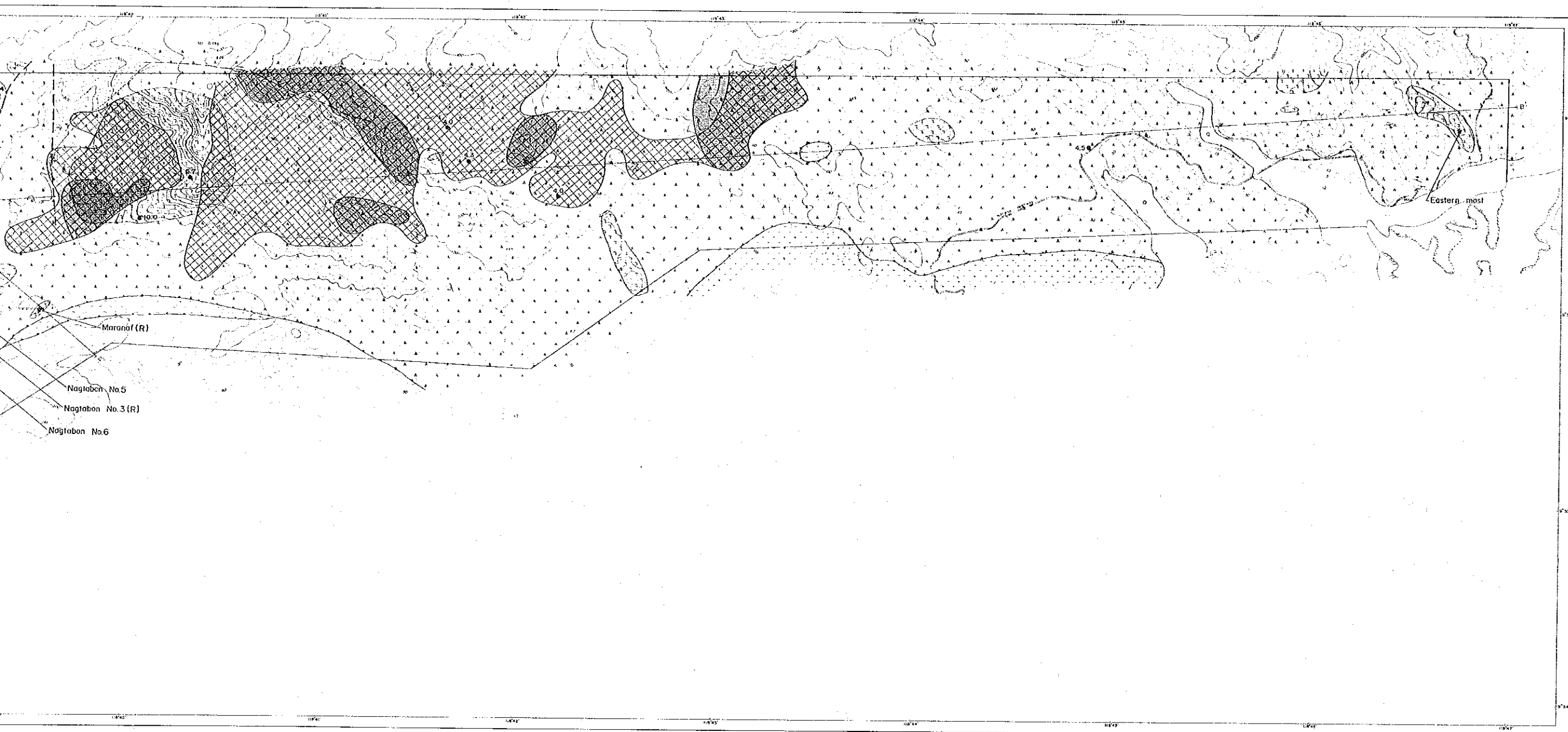


JAPAN INTERNATIONAL COOPERATION AGENCY  
METAL MINING AGENCY OF JAPAN  
1992

1 : 20,000  
0 500 1000m

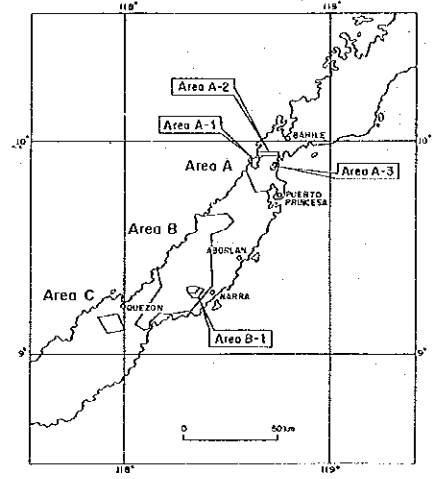
LEGEND

- Alkhuon Gravel, sand and silt
- Sulu Sea Metavolcanics Chert, conglomerate and sandstone with 60-70% iron and 1/3% silica
- Dike Fine grained gabbro
- San Vicente Gabbro Isotropic and layered gabbro
- Mt. Dauphin Ultramylonite Pyroxene rich diorite
- Diorite
- Metabasalt
- Inaguan Metachert Quartz spherul
- Structures Eruption of pyroclastic
- Eruption of diorite
- Thrust
- Other High angle fault (normal)
- Open pit
- Ore occurrence
- Metallurgical grade
- Chemical grade
- Refractory grade
- Content of chromium (%)
- Ni anomaly area
- Fe anomaly area

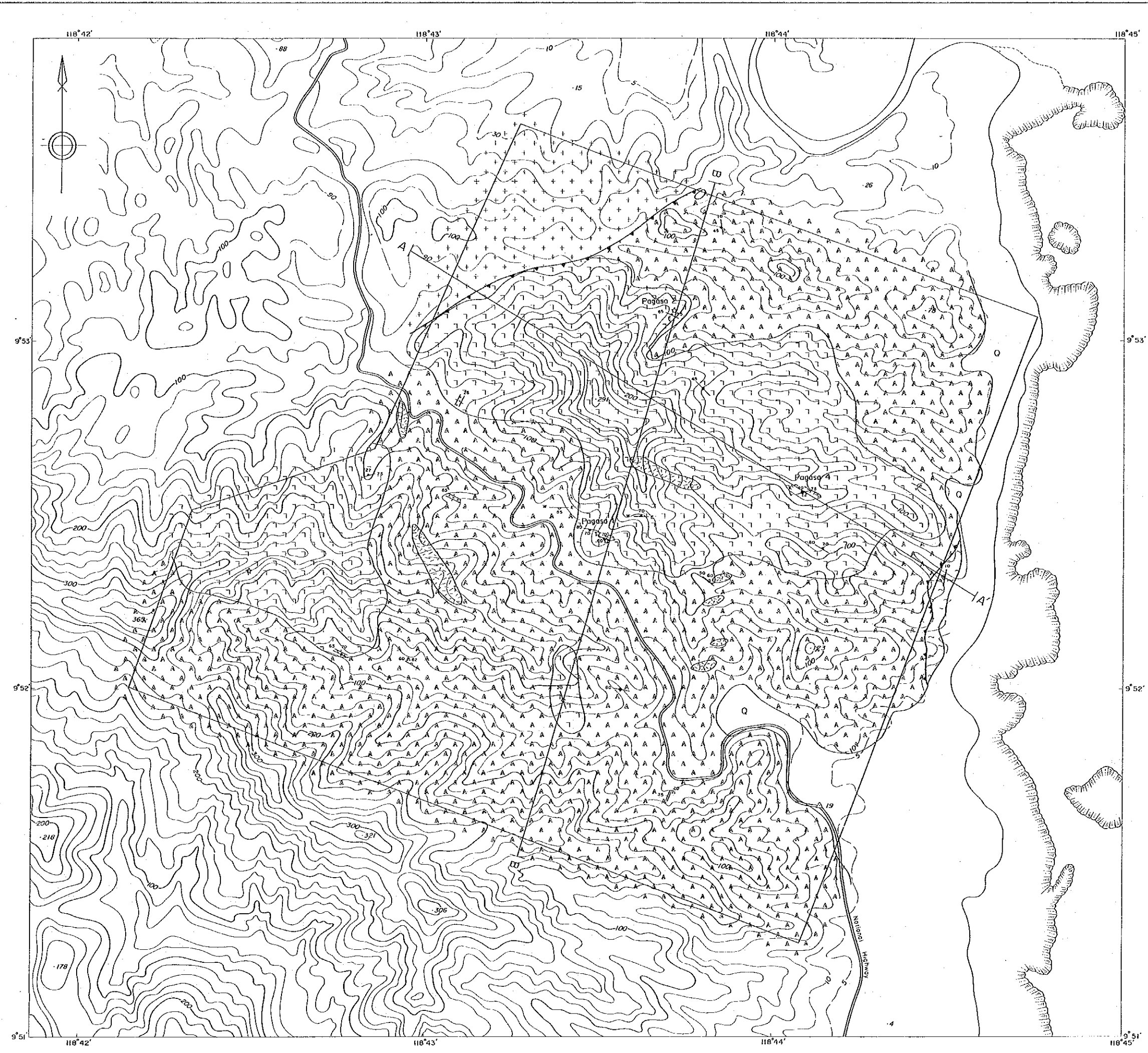
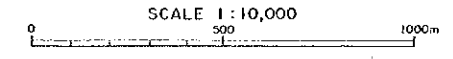


GEOLOGICAL ASSESSMENT OF CHROMITE, BASE METALS,  
PLATINUM AND RELATED PRECIOUS METAL OCCURRENCES  
IN  
SOUTH CENTRAL PALAWAN, THE PHILIPPINES.

GEOLOGIC MAP AND PROFILE  
IN AREA A-3



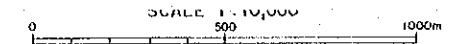
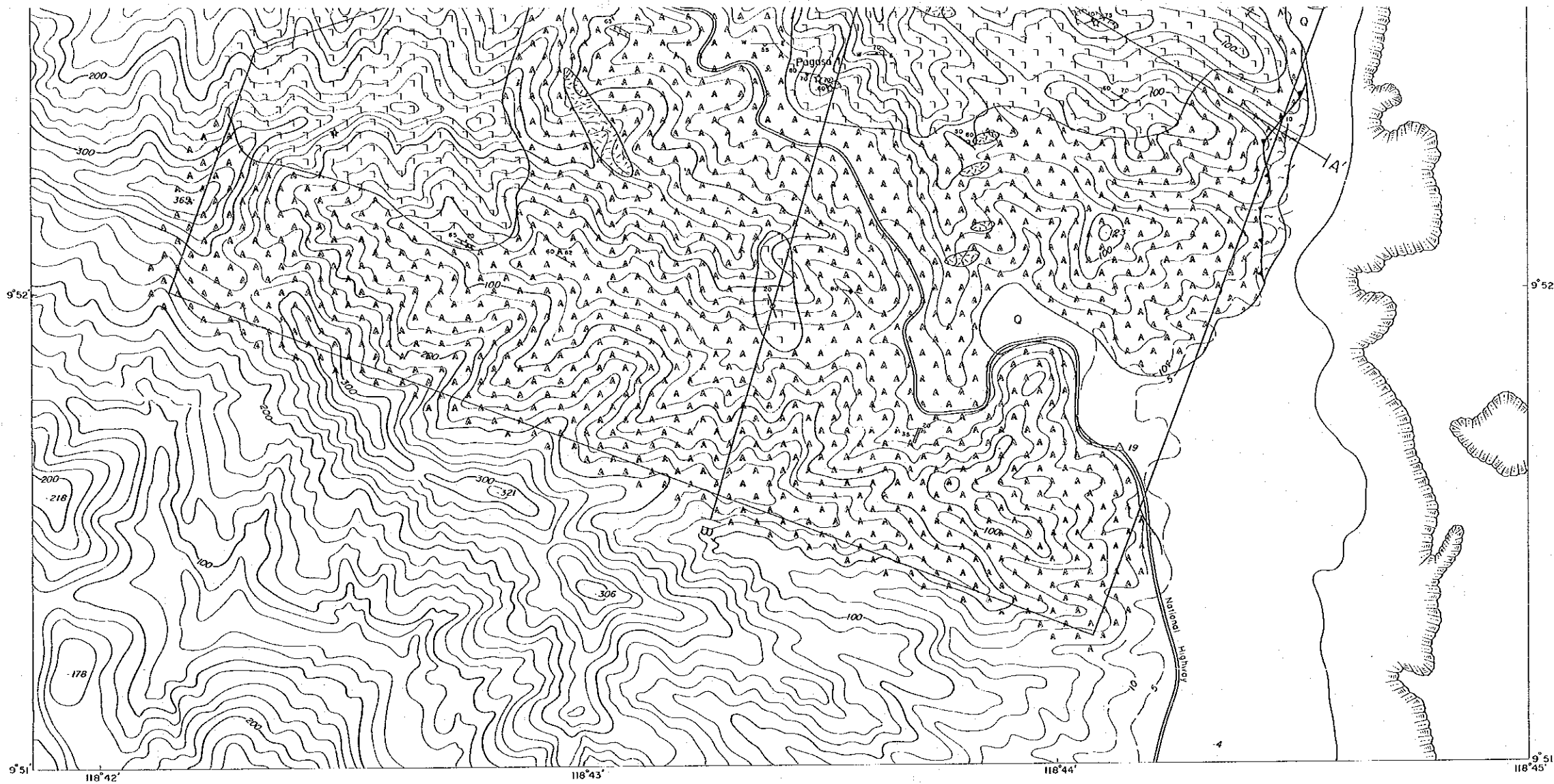
JAPAN INTERNATIONAL COOPERATION AGENCY  
METAL MINING AGENCY OF JAPAN  
1992



LEGEND

- |                          |          |                                 |
|--------------------------|----------|---------------------------------|
| Alluvium                 | Q        | Gravel, sand and silt           |
| Dike                     | [Symbol] | Fine grained gabbro, porphyrite |
|                          | [Symbol] | Pyroxenite                      |
| San Vicente Gabbro       | [Symbol] | Isotropic and layered gabbro    |
| Mt. Beaufort Ultramafics | [Symbol] | Dunite                          |
|                          | [Symbol] | Harzburgite                     |
| Inagawan Metamorphics    | [Symbol] | Amphibolite                     |
| Structures               | [Symbol] | Foliation of pyroxene           |
|                          | [Symbol] | Foliation of chromite           |
|                          | [Symbol] | Schistosity                     |
| Others                   | [Symbol] | Thrust                          |
|                          | [Symbol] | Open pit                        |
|                          | [Symbol] | Adit                            |
|                          | [Symbol] | Chromite occurrence             |
|                          | [Symbol] | Geologic profile line           |

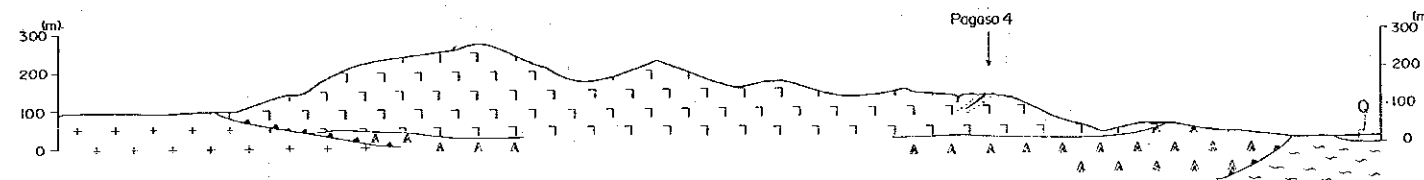
A — A'



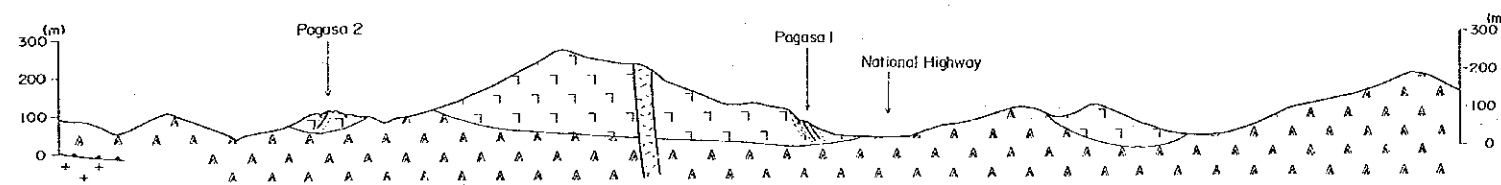
LEGEND

- |                          |          |                                 |
|--------------------------|----------|---------------------------------|
| Alluvium                 | Q        | Gravel, sand and silt           |
| Dike                     | [Symbol] | Fine grained gabbro, porphyrite |
|                          | [Symbol] | Pyroxenite                      |
| San Vicente Gabbro       | [Symbol] | Isotropic and layered gabbro    |
| Mt. Beaufort Ultramafics | [Symbol] | Dunite                          |
|                          | [Symbol] | Horzburgite                     |
| Inaguan Metamorphics     | [Symbol] | Amphibolite                     |
| Structures               | [Symbol] | Foliation of pyroxene           |
|                          | [Symbol] | Foliation of chromite           |
|                          | [Symbol] | Schistosity                     |
| Others                   | [Symbol] | Thrust                          |
|                          | [Symbol] | Open pit                        |
|                          | [Symbol] | Adit                            |
|                          | [Symbol] | Chromite occurrence             |
|                          | [Symbol] | Geologic profile line           |

A — A'

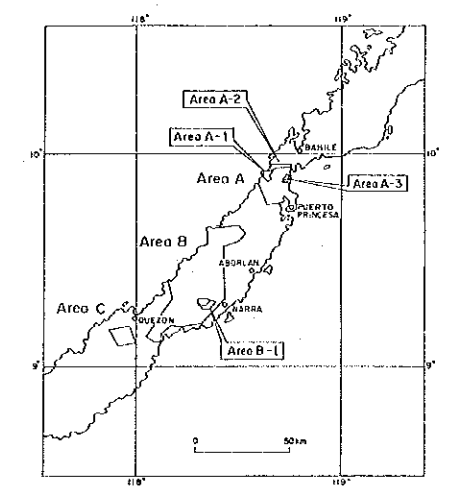


B — B'



GEOLOGICAL ASSESSMENT OF CHROMITE, BASE METALS,  
PLATINUM AND RELATED PRECIOUS METAL OCCURENCES  
IN  
SOUTH CENTRAL PALAWAN, THE PHILIPPINES.

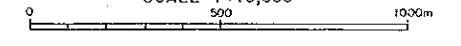
LOCALITY MAP OF ROCK AND GEOCHEMICAL  
SOIL SAMPLES IN AREA A-3



JAPAN INTERNATIONAL COOPERATION AGENCY  
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1992

SCALE 1 : 10,000



LEGEND

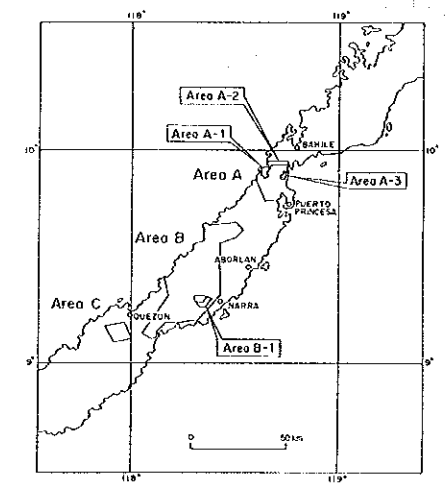
- A-001 Soil Sample Number
- AR-07 (O,T,P,E) Rock Sample Number
- ┌ EPMA
- ├ Polished Thin Section
- ├ Thin Section
- └ Ore Assay





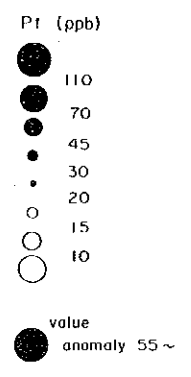
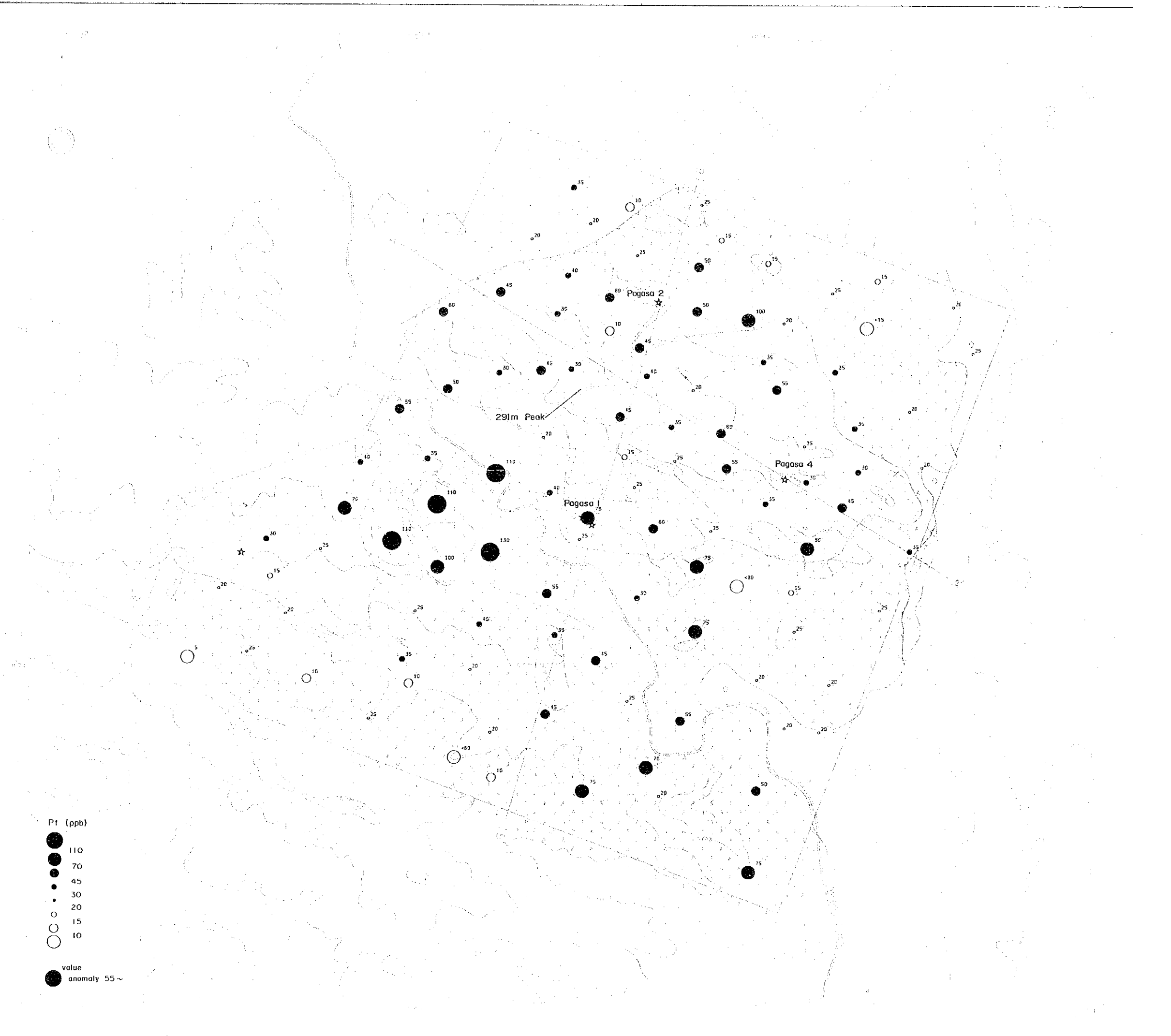
GEOLOGICAL ASSESSMENT OF CHROMITE, BASE METALS,  
PLATINUM AND RELATED PRECIOUS METAL OCCURRENCES  
IN  
SOUTH CENTRAL PALAWAN, THE PHILIPPINES.

Pt CONTENT OF SOIL SAMPLES  
IN AREA A-3



JAPAN INTERNATIONAL COOPERATION AGENCY  
METAL MINING AGENCY OF JAPAN  
1992

SCALE 1 : 10,000  
0 500 1000m

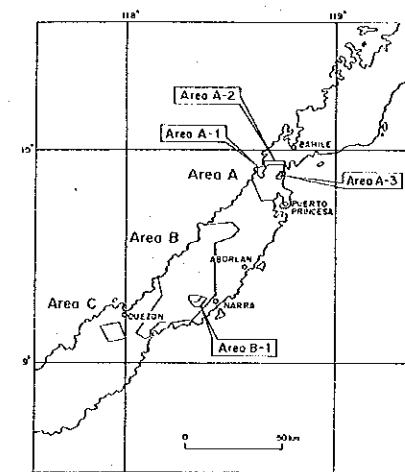


LEGEND

- Alluvium Q Gravel, sand and silt
- Dike / / / / Fine grained gabbro, porphyrite
- San Vicente Gabbro + + + + Pyroxenite
- Mt. Beaufort Ultramafics + + + + Isotropic and layered gabbro
- Inagawan Metamorphics / / / / Dunite
- Structures / / / / Harzburgite
- Others / / / / Amphibolite
- Structures / / / / Foliation of pyroxene
- Structures / / / / Foliation of chromite
- Structures / / / / Schistosity
- Others / / / / Thrust
- Others / / / / Open pit
- Others / / / / Adit
- Others / / / / Chromite occurrence
- Others / / / / Geologic profile line

GEOLOGICAL ASSESSMENT OF CHROMITE, BASE METALS,  
PLATINUM AND RELATED PRECIOUS METAL OCCURRENCES  
IN  
SOUTH CENTRAL PALAWAN, THE PHILIPPINES.

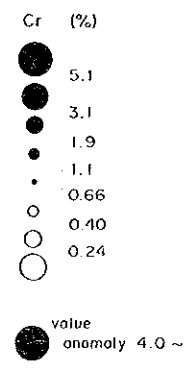
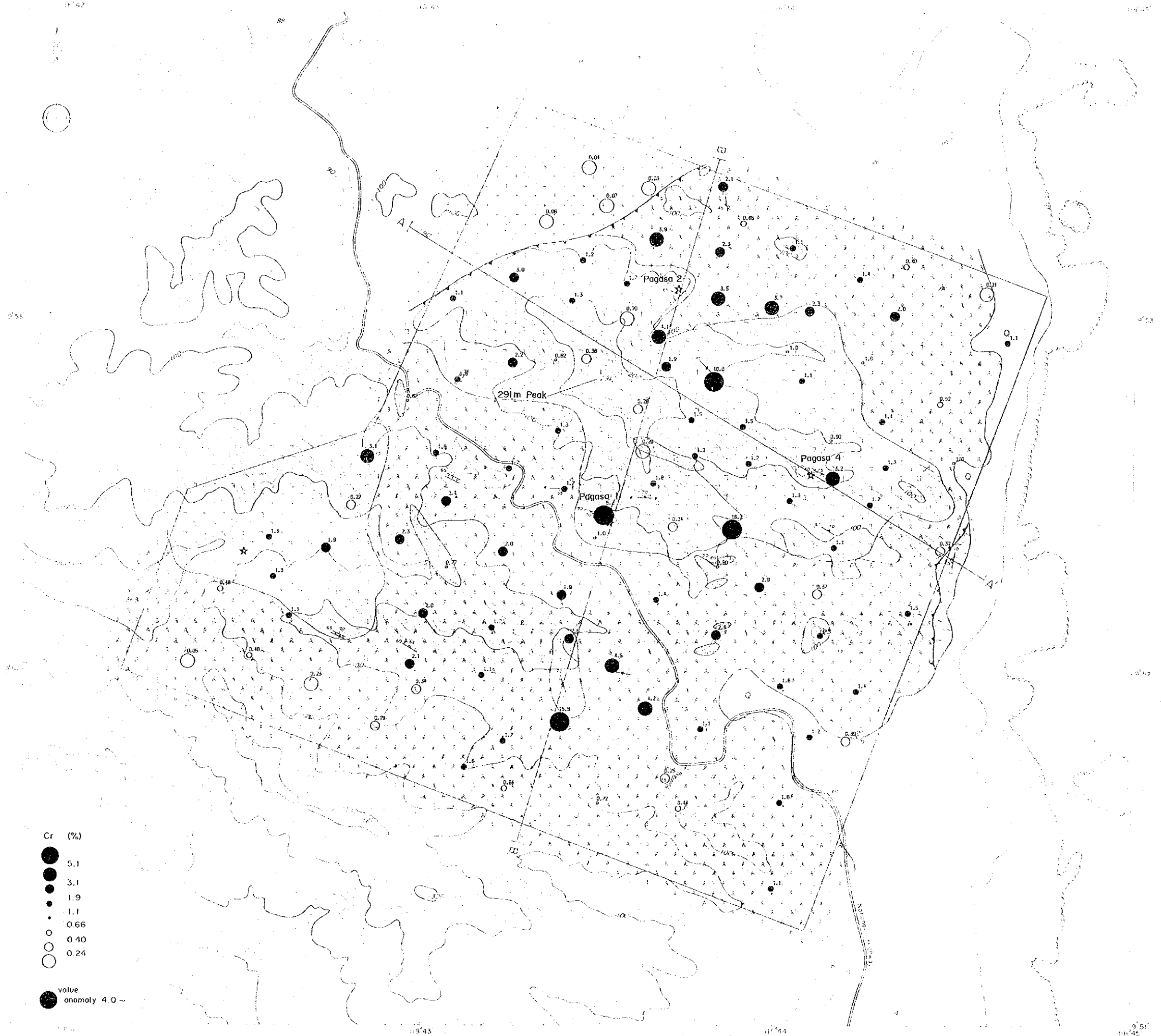
Cr CONTENT OF SOIL SAMPLES  
IN AREA A-3



JAPAN INTERNATIONAL COOPERATION AGENCY  
METAL MINING AGENCY OF JAPAN

1992

SCALE 1 : 10,000  
0 500 1000m



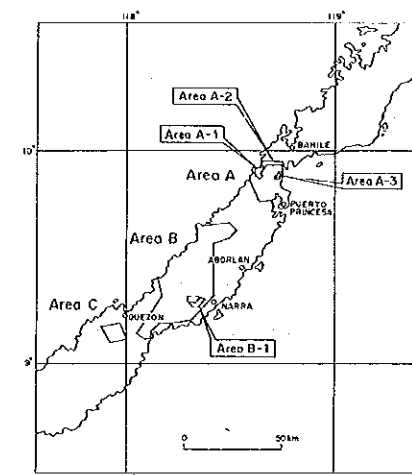
LEGEND

- Alluvium ○ Gravel, sand and silt
- Dike [diagonal lines] Fine grained gabbro, porphyrite
- [dotted pattern] Pyroxenite
- San Vicente Gabbro [cross-hatch] Isotropic and layered gabbro
- Mt. Beaufort Ultramafics [horizontal lines] Dunite
- [vertical lines] Harzburgite
- Inaguan Metamorphics [wavy lines] Amphibolite
- Structures [diagonal lines with arrows] Foliation of pyroxene
- [diagonal lines with arrows] Foliation of chromite
- [wavy lines] Schistosity
- Others [curved arrow] Thrust
- [circle with dot] Open pit
- [T-shaped symbol] Adit
- [star] Chromite occurrence
- [line with 'A' markers] Geologic profile line



GEOLOGICAL ASSESSMENT OF CHROMITE, BASE METALS,  
PLATINUM AND RELATED PRECIOUS METAL OCCURRENCES  
IN  
SOUTH CENTRAL PALAWAN, THE PHILIPPINES.

INTERPRETATION MAP OF AREA A-3



JAPAN INTERNATIONAL COOPERATION AGENCY  
METAL MINING AGENCY OF JAPAN  
1992

SCALE 1 : 10,000  
0 500 1000m



LEGEND

- |                          |                        |                                 |
|--------------------------|------------------------|---------------------------------|
| Alluvium                 | Q                      | Gravel, sand and silt           |
| Dike                     | [Diagonal lines]       | Fine grained gabbro, porphyrite |
|                          | [Diagonal lines]       | Pyroxenite                      |
| San Vicente Gabbro       | [Cross-hatch]          | Isotropic and layered gabbro    |
| Mt. Beaufort Ultramafics | [Vertical lines]       | Dunite                          |
|                          | [Horizontal lines]     | Harzburgite                     |
| Inagaun Metamorphics     | [Wavy lines]           | Amphibolite                     |
| Structures               | [Curved lines]         | Foliation of pyroxene           |
|                          | [Curved lines]         | Foliation of chromite           |
|                          | [Wavy lines]           | Schistosity                     |
| Others                   | [Thick line]           | Thrust                          |
|                          | [Circle]               | Open pit                        |
|                          | [T-shaped line]        | Adit                            |
|                          | [Star]                 | Chromite occurrence             |
|                          | [Circle with M]        | Metallurgical grade             |
|                          | [Dot]                  | Content of chromium (%)         |
|                          | [Shaded circle]        | Pt anomaly area                 |
|                          | [Cross-hatched circle] | Pd anomaly area                 |



