



BATANG ISLAND

NORTHERN SAMAR

SAMAR ISLAND

PHILIPPINE SEA

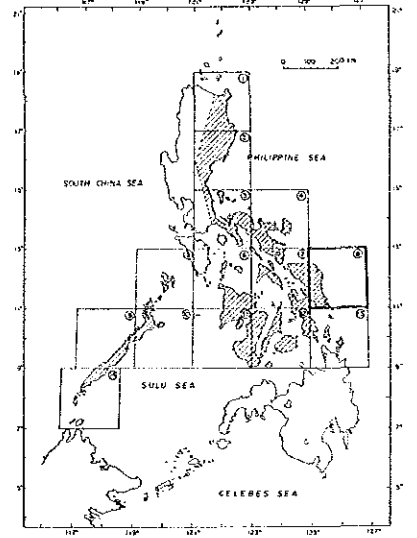
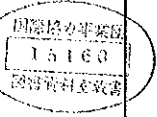
HILABUAN ISLAND

MASIG ISLAND

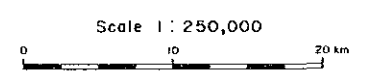
CATALABAN ISLAND

THE MINERAL EXPLORATION
- MINERAL DEPOSITS AND TECTONICS OF TWO
CONTRASTING GEOLOGIC ENVIRONMENTS -
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE I

MINERAL INVENTORY MAP



JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
JUNE 1985, FIRST EDITION



LEGEND

- Deposit
- | | | |
|----------|-------------|---|
| metallic | nonmetallic | |
| ⊙ | △ | : Operating mine |
| ○ | △ | : Explored, Developed, Prospect or Indication |

Symbols

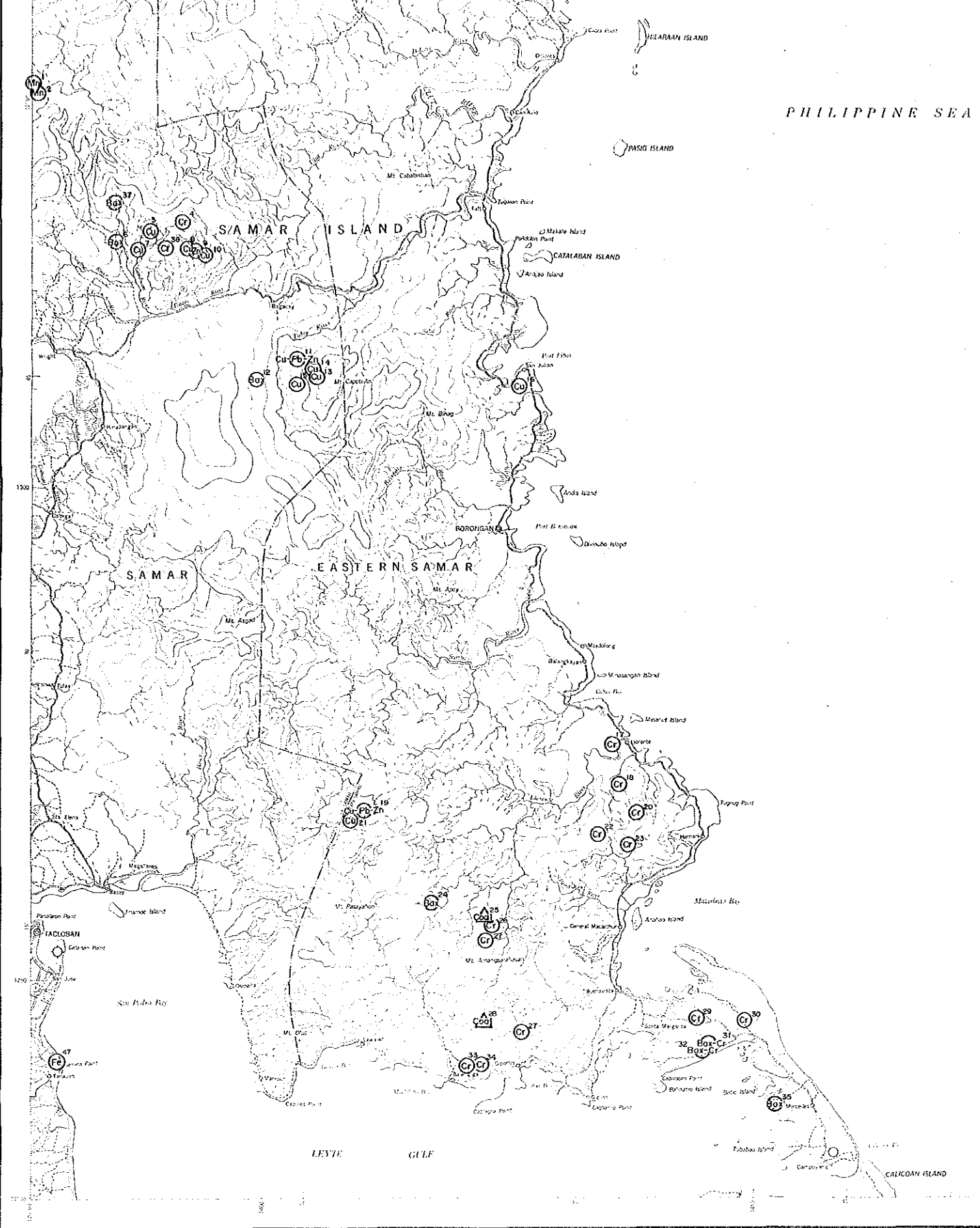
- | metallics | nonmetallics |
|-----------------|--------------------------|
| Au : Gold | Asb : Asbestos |
| Ag : Silver | Asp : Asphalt |
| Al : Aluminum | Bar : Barite |
| As : Arsenic | Bnl : Bentonite |
| Bax : Bauxite | Cly : Clay |
| Cu : Copper | Coal : Coal |
| Co : Cobalt | Dia : Diatomaceous Earth |
| Cr : Chromite | Dol : Dolomite |
| Fe : Iron | Fd : Feldspar |
| Hg : Mercury | Fl : Fluorite |
| Mn : Manganese | Gn : Guano |
| Mo : Molybdenum | Gnp : Guano-Phosphate |
| Ni : Nickel | Gr : Granite |
| Pb : Lead | Gyp : Gypsum |
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| Sn : Tin | Mbl : Marble |
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| W : Tungsten | Peb : Pebble |
| Zn : Zinc | Peat : Peat |
| | Per : Perlite |
| | Py : Pyrite |
| | S : Sulfur |
| | Sh : Shale |
| | Si : Silica |
| | Sisc : Silica Sand |

PHILIPPINE SEA

LABUAN ISLAND
MILARAAN ISLAND

IG ISLAND

PHILIPPINE SEA



LEGEND

- 1000' Contour
- 2000' Contour
- 3000' Contour
- 4000' Contour
- 5000' Contour
- 6000' Contour
- 7000' Contour
- 8000' Contour
- 9000' Contour
- 10000' Contour
- 11000' Contour
- 12000' Contour
- 13000' Contour
- 14000' Contour
- 15000' Contour
- 16000' Contour
- 17000' Contour
- 18000' Contour
- 19000' Contour
- 20000' Contour
- 21000' Contour
- 22000' Contour
- 23000' Contour
- 24000' Contour
- 25000' Contour
- 26000' Contour
- 27000' Contour
- 28000' Contour
- 29000' Contour
- 30000' Contour
- 31000' Contour
- 32000' Contour
- 33000' Contour
- 34000' Contour
- 35000' Contour
- 36000' Contour
- 37000' Contour
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- 39000' Contour
- 40000' Contour
- 41000' Contour
- 42000' Contour
- 43000' Contour
- 44000' Contour
- 45000' Contour
- 46000' Contour
- 47000' Contour
- 48000' Contour
- 49000' Contour
- 50000' Contour
- 51000' Contour
- 52000' Contour
- 53000' Contour
- 54000' Contour
- 55000' Contour
- 56000' Contour
- 57000' Contour
- 58000' Contour
- 59000' Contour
- 60000' Contour
- 61000' Contour
- 62000' Contour
- 63000' Contour
- 64000' Contour
- 65000' Contour
- 66000' Contour
- 67000' Contour
- 68000' Contour
- 69000' Contour
- 70000' Contour
- 71000' Contour
- 72000' Contour
- 73000' Contour
- 74000' Contour
- 75000' Contour
- 76000' Contour
- 77000' Contour
- 78000' Contour
- 79000' Contour
- 80000' Contour
- 81000' Contour
- 82000' Contour
- 83000' Contour
- 84000' Contour
- 85000' Contour
- 86000' Contour
- 87000' Contour
- 88000' Contour
- 89000' Contour
- 90000' Contour
- 91000' Contour
- 92000' Contour
- 93000' Contour
- 94000' Contour
- 95000' Contour
- 96000' Contour
- 97000' Contour
- 98000' Contour
- 99000' Contour
- 100000' Contour
- 101000' Contour
- 102000' Contour
- 103000' Contour
- 104000' Contour
- 105000' Contour
- 106000' Contour
- 107000' Contour
- 108000' Contour
- 109000' Contour
- 110000' Contour
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- 117000' Contour
- 118000' Contour
- 119000' Contour
- 120000' Contour
- 121000' Contour
- 122000' Contour
- 123000' Contour
- 124000' Contour
- 125000' Contour
- 126000' Contour
- 127000' Contour
- 128000' Contour
- 129000' Contour
- 130000' Contour
- 131000' Contour
- 132000' Contour
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- 142000' Contour
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- 150000' Contour
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- 154000' Contour
- 155000' Contour
- 156000' Contour
- 157000' Contour
- 158000' Contour
- 159000' Contour
- 160000' Contour
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- 162000' Contour
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- 164000' Contour
- 165000' Contour
- 166000' Contour
- 167000' Contour
- 168000' Contour
- 169000' Contour
- 170000' Contour
- 171000' Contour
- 172000' Contour
- 173000' Contour
- 174000' Contour
- 175000' Contour
- 176000' Contour
- 177000' Contour
- 178000' Contour
- 179000' Contour
- 180000' Contour
- 181000' Contour
- 182000' Contour
- 183000' Contour
- 184000' Contour
- 185000' Contour
- 186000' Contour
- 187000' Contour
- 188000' Contour
- 189000' Contour
- 190000' Contour
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- 195000' Contour
- 196000' Contour
- 197000' Contour
- 198000' Contour
- 199000' Contour
- 200000' Contour

LABAN ISLAND

PHILIPPINE SEA

ISLAND

ISLAND

Mount Island

New Port

Misamis Rio

Anasao Island

Sancti Spiritus

Sancti Spiritus

Sancti Spiritus

Sancti Spiritus

Sancti Spiritus

Sancti Spiritus

Sancti Spiritus

Sancti Spiritus

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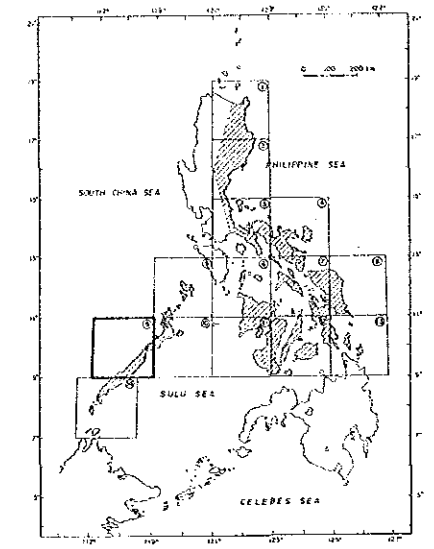
CALICAN ISLAND

Au	: Gold	Asb	: Asbestos
Ag	: Silver	Asp	: Asphalt
Al	: Aluminum	Bar	: Barite
As	: Arsenic	Bnl	: Bentonite
Bax	: Bauxite	ClY	: Clay
Cu	: Copper	Coal	: Coal
Co	: Cobalt	Dia	: Diatomaceous Earth
Cr	: Chromite	Doi	: Dolomite
Fe	: Iron	Fd	: Feldspar
Hg	: Mercury	Fl	: Fluorite
Mn	: Manganese	Gn	: Guano
Mo	: Molybdenum	Gnp	: Guano-Phosphate
Ni	: Nickel	Gr	: Granite
Pb	: Lead	Gyp	: Gypsum
Sb	: Antimony	Ls	: Limestone
Sn	: Tin	Mbl	: Marble
U	: Uranium	P	: Phosphate
W	: Tungsten	Peb	: Pebble
Zn	: Zinc	Peat	: Peat
		Per	: Perlite
		Py	: Pyrite
		S	: Sulfur
		Sh	: Shale
		Si	: Silica
		SiS	: Silica Sand
		SS	: Sandstone
		Tlc	: Talc

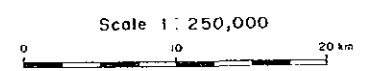
THE MINERAL EXPLORATION
- MINERAL DEPOSITS AND TECTONICS OF TWO
CONTRASTING GEOLOGIC ENVIRONMENTS -
IN

THE REPUBLIC OF THE PHILIPPINES
PHASE I

MINERAL INVENTORY MAP



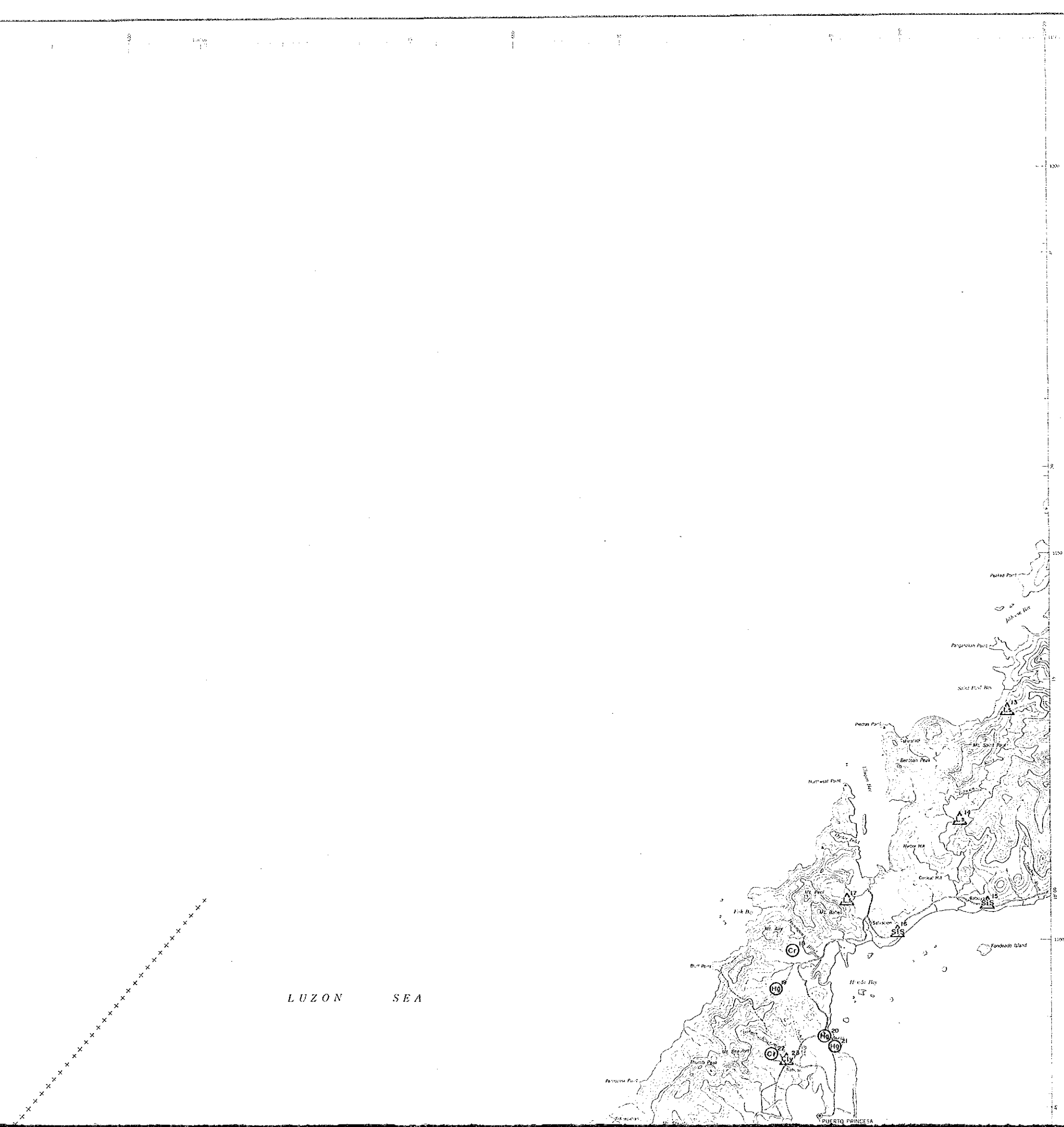
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
JUNE 1985, FIRST EDITION



LEGEND

- Deposit**
- metallic nonmetallic
 - ⊙ △ : Operating mine
 - △ : Explored, Developed, Prospect or Indication

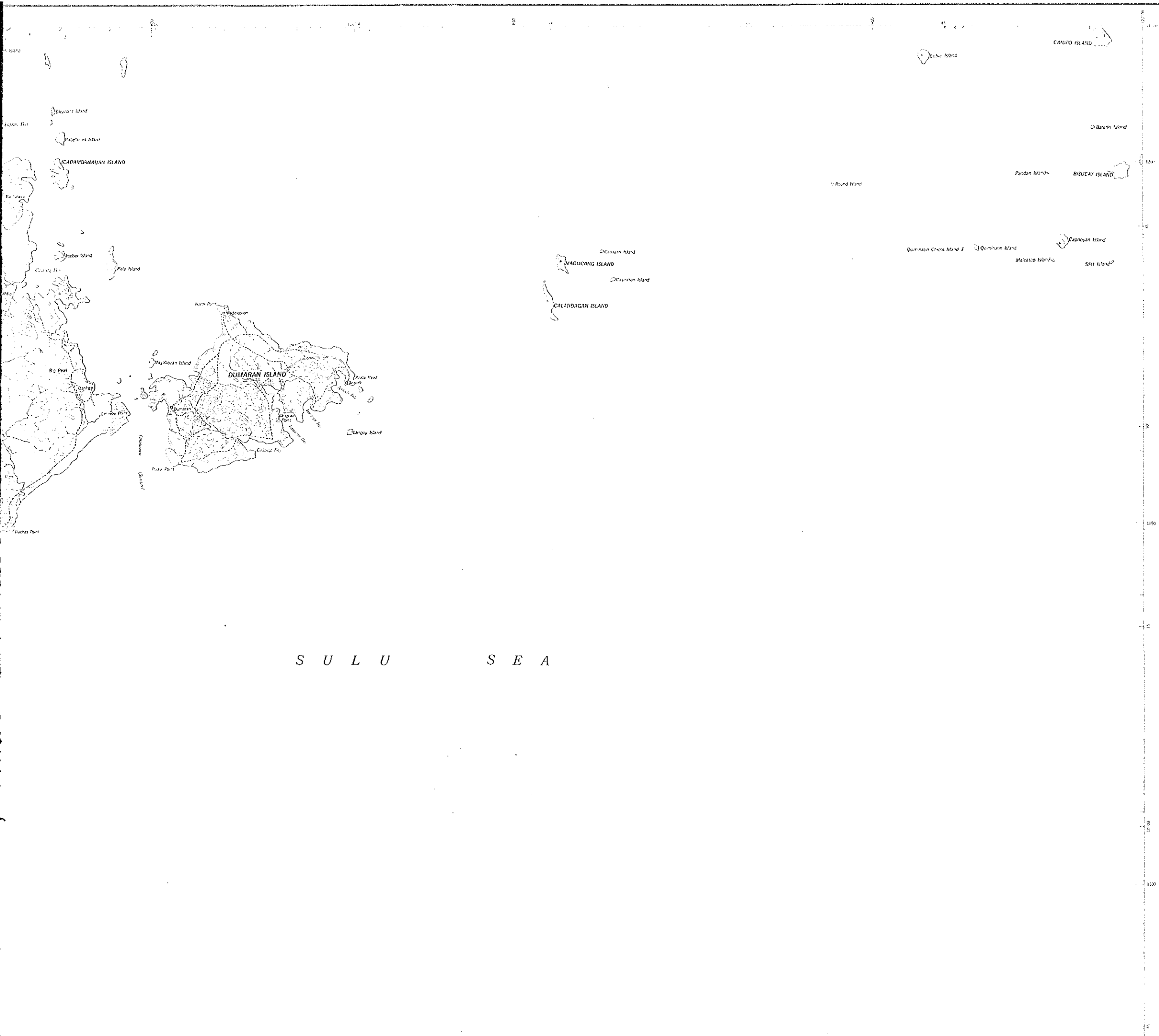
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| Hg : Mercury | Fl : Flourite |
| Mn : Manganese | Gn : Guano |
| Mo : Molybdenum | Gnp : Guano-Phosphate |
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| Sb : Antimony | Ls : Limestone |
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| Zn : Zinc | Peat : Peat |
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| | S : Sulfur |
| | Sh : Shale |
| | Si : Silica |
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Au	Gold	Asb	Asbestos
Ag	Silver	Asp	Asphalt
Al	Aluminum	Bar	Barite
As	Arsenic	Bnt	Bentonite
Bx	Bauxite	Cty	Clay
Cu	Copper	Coal	Coal
Co	Cobalt	Dia	Diatomaceous Earth
Cr	Chromite	Dol	Dolomite
Fe	Iron	Fd	Feldspar
Hg	Mercury	Fl	Flourite
Mn	Manganese	Gnp	Guano
Mo	Molybdenum	Gnp	Guano-Phosphate
Ni	Nickel	Gr	Granite
Pb	Lead	Gyp	Gypsum
Sb	Antimony	Ls	Limestone
Sn	Tin	Mbl	Marble
U	Uranium	P	Phosphate
W	Tungsten	Peb	Pebble
Zn	Zinc	Peat	Peat
		Per	Perlite
		Py	Pyrite
		S	Sulfur
		Sh	Shale
		Sl	Silica
		SIS	Silica Sand
		SS	Sandstone
		Tlc	Talc





PL. 5-10

THE MINERAL EXPLORATION
 - MINERAL DEPOSITS AND TECTONICS OF TWO
 CONTRASTING GEOLOGIC ENVIRONMENTS -
 IN
 THE REPUBLIC OF THE PHILIPPINES
 PHASE I

MINERAL INVENTORY MAP

JAPAN INTERNATIONAL COOPERATION AGENCY
 METAL MINING AGENCY OF JAPAN
 JUNE 1985, FIRST EDITION

Scale 1 : 250,000

LEGEND

- Deposit**
- | | | |
|----------|-------------|---|
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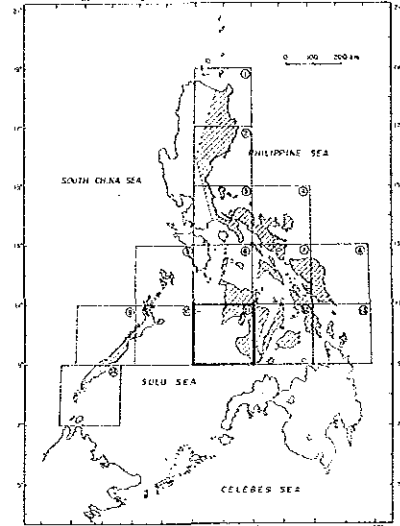
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Cr	: Chromite	Dol	: Dolomite
Fe	: Iron	Fd	: Feldspar
Hg	: Mercury	Fl	: Fluorite
Mn	: Manganese	Gn	: Guano
Mo	: Molybdenum	Gnp	: Guano-Phosphate
Ni	: Nickel	Gr	: Granite
Pb	: Lead	Gyp	: Gypsum
Sb	: Antimony	Ls	: Limestone
Sn	: Tin	Mbl	: Marble
U	: Uranium	P	: Phosphate
W	: Tungsten	Peb	: Pebble
Zn	: Zinc	Peat	: Peat
		Per	: Perlite
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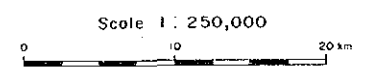


THE MINERAL EXPLORATION
- MINERAL DEPOSITS AND TECTONICS OF TWO
CONTRASTING GEOLOGIC ENVIRONMENTS -
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE I

MINERAL INVENTORY MAP



JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
JUNE 1985, FIRST EDITION



LEGEND

Deposit

- | | | |
|----------|-------------|---|
| metallic | nonmetallic | |
| ⊙ | △ | : Operating mine |
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Symbols

- | metallics | | nonmetallics | |
|-----------|--------------|--------------|----------------------|
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| Al | : Aluminum | Bar | : Barite |
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| Cu | : Copper | Coal | : Coal |
| Co | : Cobalt | Dio | : Diatomaceous Earth |
| Cr | : Chromite | Dol | : Dolomite |
| Fe | : Iron | Fd | : Feldspar |
| Hg | : Mercury | Fl | : Flourite |
| Mn | : Manganese | Gn | : Guano |
| Mo | : Molybdenum | Gnp | : Guano-Phosphate |
| Ni | : Nickel | Gr | : Granite |
| Pb | : Lead | Gyp | : Gypsum |
| Sb | : Antimony | Ls | : Limestone |
| Sn | : Tin | Mbl | : Marble |
| U | : Uranium | P | : Phosphate |
| W | : Tungsten | Peab | : Pebble |
| Zn | : Zinc | Peat | : Peat |
| | | Per | : Perlite |
| | | Py | : Pyrite |
| | | S | : Sulfur |
| | | Sh | : Shale |
| | | Si | : Silica |
| | | Slc | : Silica Sand |

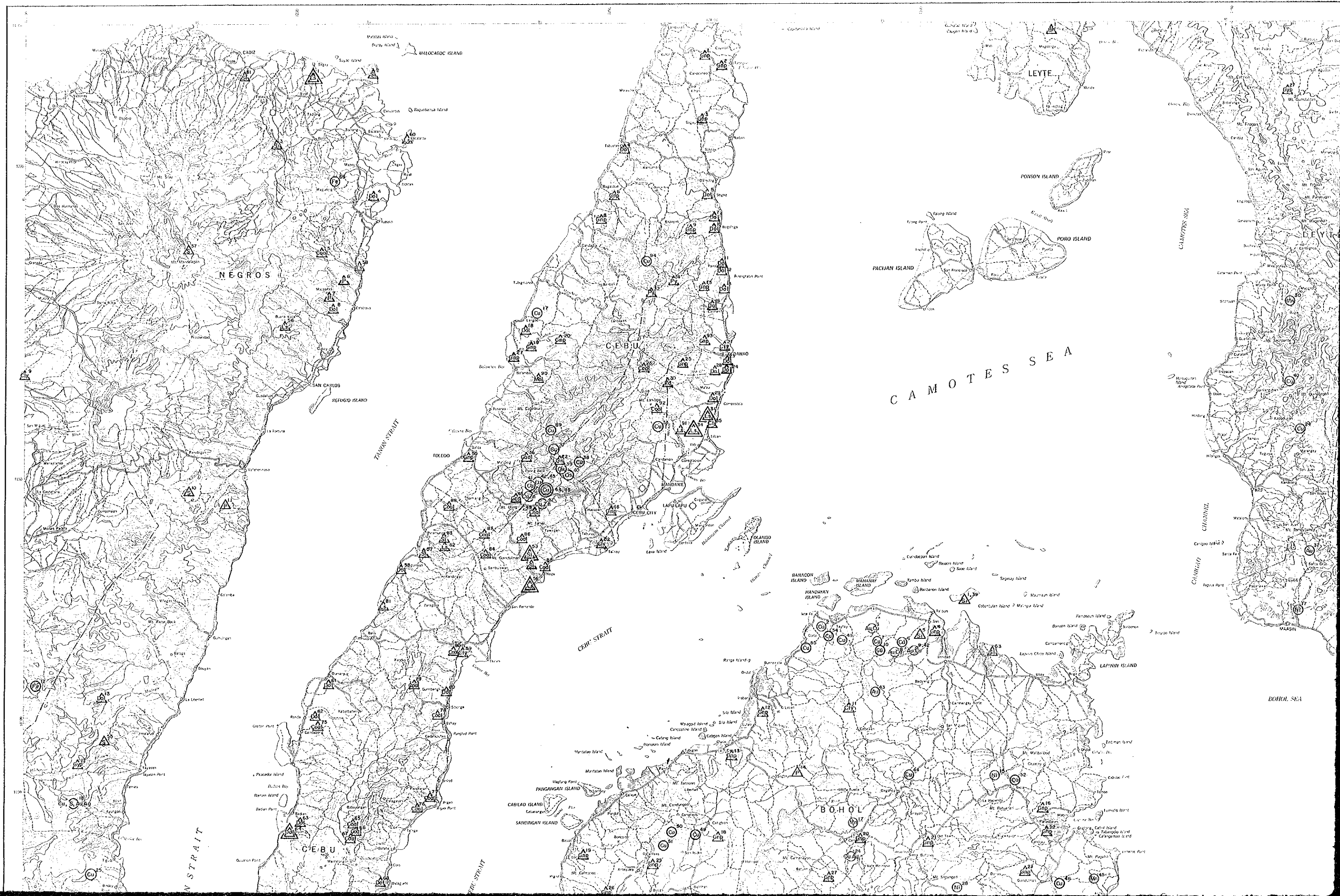
SULU SEA



SULU SEA

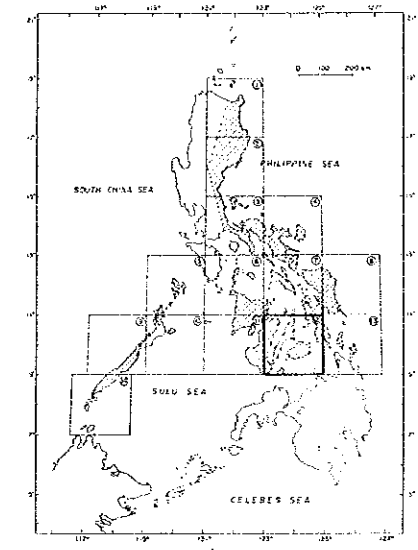


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THE REPUBLIC OF THE PHILIPPINES
PHASE I
MINERAL INVENTORY MAP

15160
15160



JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
JUNE 1985, FIRST EDITION

Scale 1 : 250,000
0 10 20 km

LEGEND

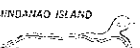
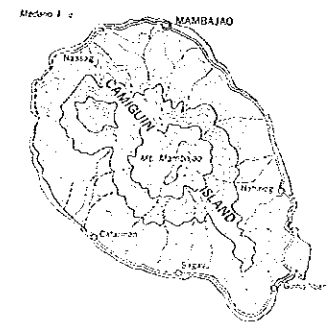
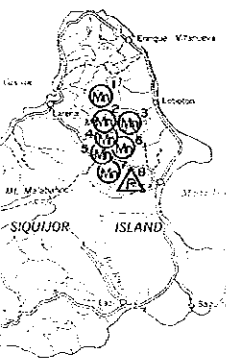
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		Tic	: Talc



BOHOL SEA





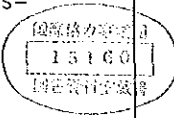
PL. 5 - 13

THE MINERAL EXPLORATION
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JUNE 1985, FIRST EDITION

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| | S : Sulfur |
| | Sh : Shale |
| | Si : Silica |
| | SIS : Silica Sand |



Au	: Gold	Asb	: Asbestos
Ag	: Silver	Asp	: Asphalt
Al	: Aluminum	Bar	: Barite
As	: Arsenic	Bnt	: Bentonite
Bax	: Bauxite	Cly	: Clay
Cu	: Copper	Coal	: Coal
Co	: Cobalt	Dia	: Diatomaceous Earth
Cr	: Chromite	Dol	: Dolomite
Fe	: Iron	Fd	: Feldspar
Hg	: Mercury	Fl	: Fluorite
Mn	: Manganese	Gn	: Guano
Mo	: Molybdenum	Gnp	: Guano-Phosphate
Ni	: Nickel	Gr	: Granite
Pb	: Lead	Gyp	: Gypsum
Sb	: Antimony	Ls	: Limestone
Sn	: Tin	Mbl	: Marble
U	: Uranium	P	: Phosphate
W	: Tungsten	Peb	: Pebble
Zn	: Zinc	Peat	: Peat
		Per	: Perlite
		Py	: Pyrite
		S	: Sulfur
		Sh	: Shale
		Si	: Silica
		SiS	: Silica Sand
		SS	: Sandstone
		Tlc	: Talc





SOUTH CHINA SEA

PALAWAN

SULU SEA

PALAWAN PASSAGE

NORTH BALABAC STRAIT

NORTH CHANNEL

RAMOS ISLAND

BALABAC ISLAND

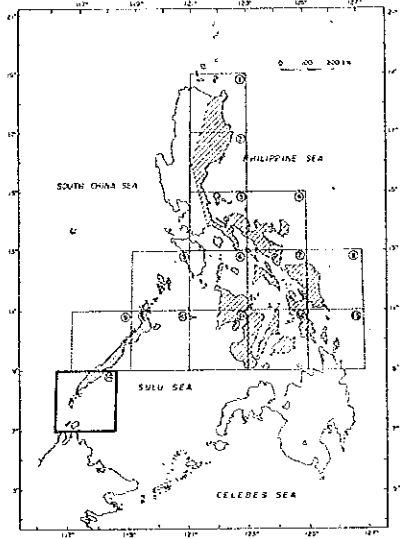
PANDANAN ISLAND

BUSSUK ISLAND

MANTANGULE ISLAND

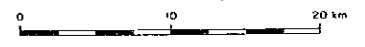
THE MINERAL EXPLORATION
- MINERAL DEPOSITS AND TECTONICS OF TWO
CONTRASTING GEOLOGIC ENVIRONMENTS
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE I

MINERAL INVENTORY MAP



JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
JUNE 1985, FIRST EDITION

Scale 1: 250,000



LEGEND

Deposit

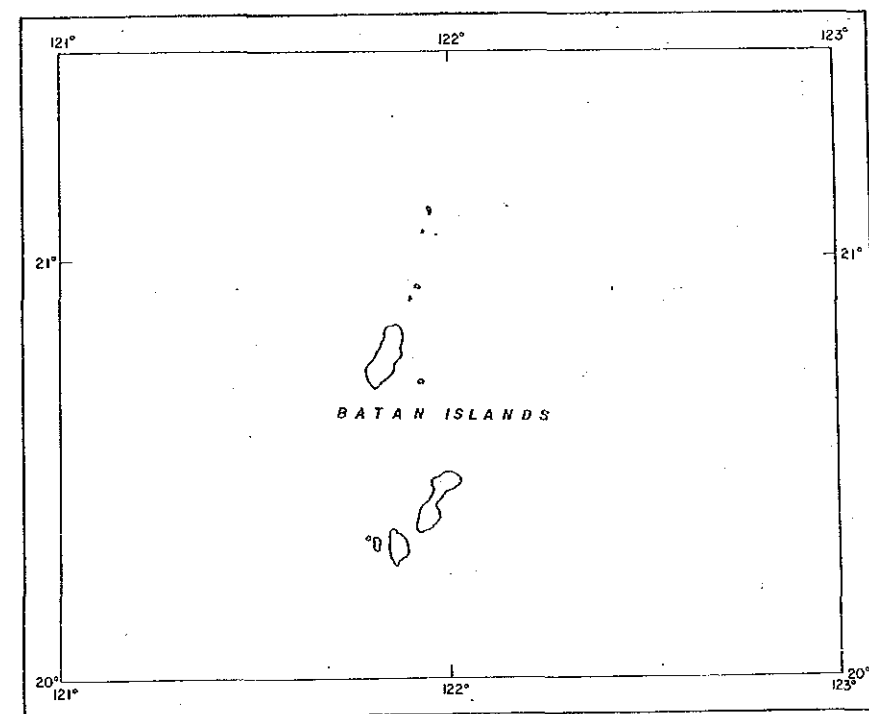
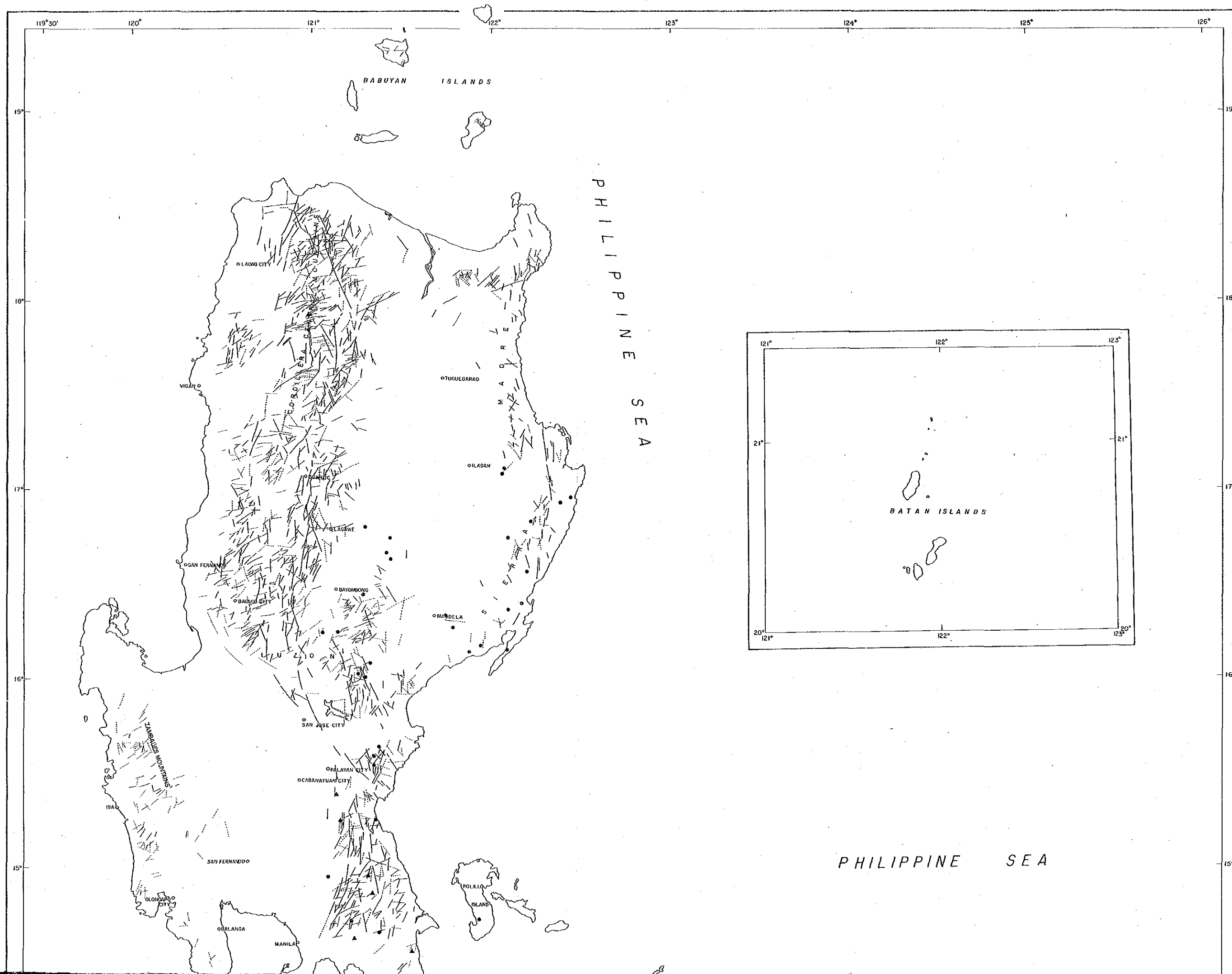
- | | | |
|----------|-------------|---|
| metallic | nonmetallic | |
| ⊙ | △ | : Operating mine |
| ○ | △ | : Explored, Developed, Prospect or Indication |

Symbols

- | metallics | nonmetallics |
|-----------------|--------------------------|
| Au : Gold | Asb : Asbestos |
| Ag : Silver | Asp : Asphalt |
| Al : Aluminum | Bar : Barite |
| As : Arsenic | Bnt : Bentanite |
| Bax : Bauxite | Cly : Clay |
| Cu : Copper | Coal : Coal |
| Co : Cobalt | Dio : Diatomaceous Earth |
| Cr : Chromite | Dol : Dolomite |
| Fe : Iron | Fd : Feldspar |
| Hg : Mercury | Fl : Flourite |
| Mn : Manganese | Gn : Guano |
| Mo : Molybdenum | Gnp : Guano-Phosphate |
| Ni : Nickel | Gr : Granite |
| Pb : Lead | Gyp : Gypsum |
| Sb : Antimony | Ls : Limestone |
| Sn : Tin | Mbl : Marble |
| U : Uranium | P : Phosphate |
| W : Tungsten | Peb : Pebble |
| Zn : Zinc | Peat : Peat |
| | Per : Perlite |
| | Py : Pyrite |
| | S : Sulfur |
| | Sh : Shale |
| | Si : Silica |



S U L U S E A

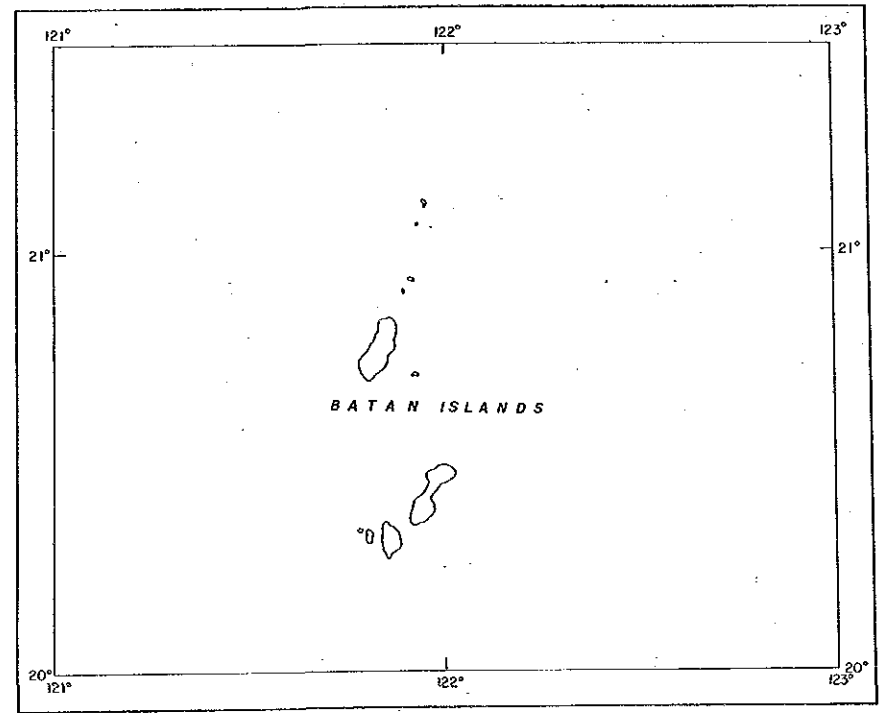
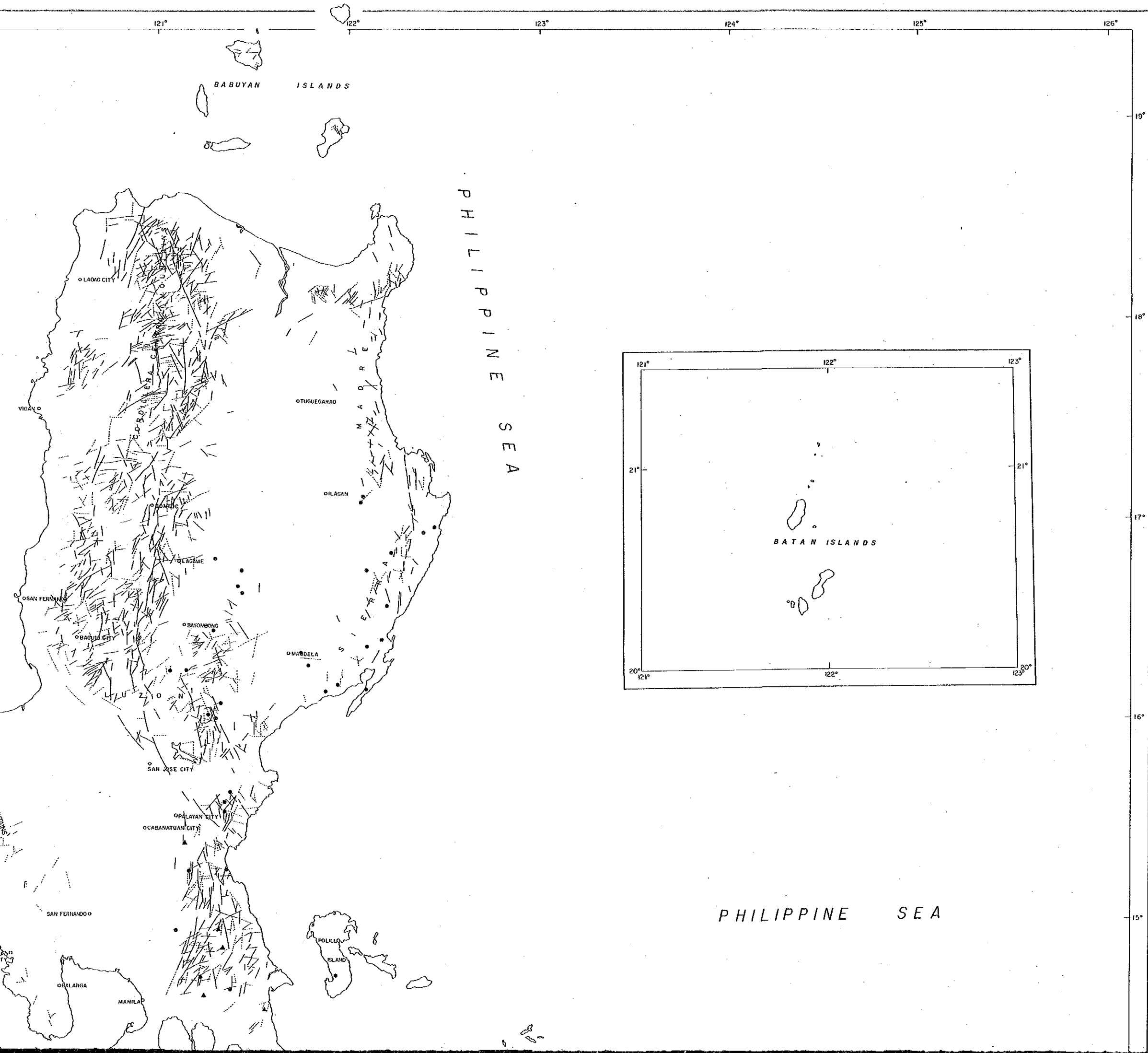


THE MINERAL EXPLORATION
 - MINERAL DEPOSITS AND
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 PHILIPPINES
LINEAMENT AND MINERAL DISTRIBUTION
 LOCATION

JAPAN INTERNATIONAL COOPERATION
 METAL MINING AGENCY
 JUNE 1985, FINAL REPORT

Scale 1 : 500,000

- LEG
- Major metallic
 - Cu : ●
 - Au/Ag : ▲
 - Cr/Ni-Co : ○



PL. 6 - 1

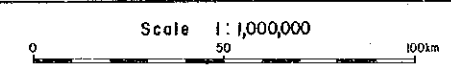
THE MINERAL EXPLORATION
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IN
THE REPUBLIC OF THE PHILIPPINES
PHASE I

15160
国際協力事業団
国書資料室蔵書

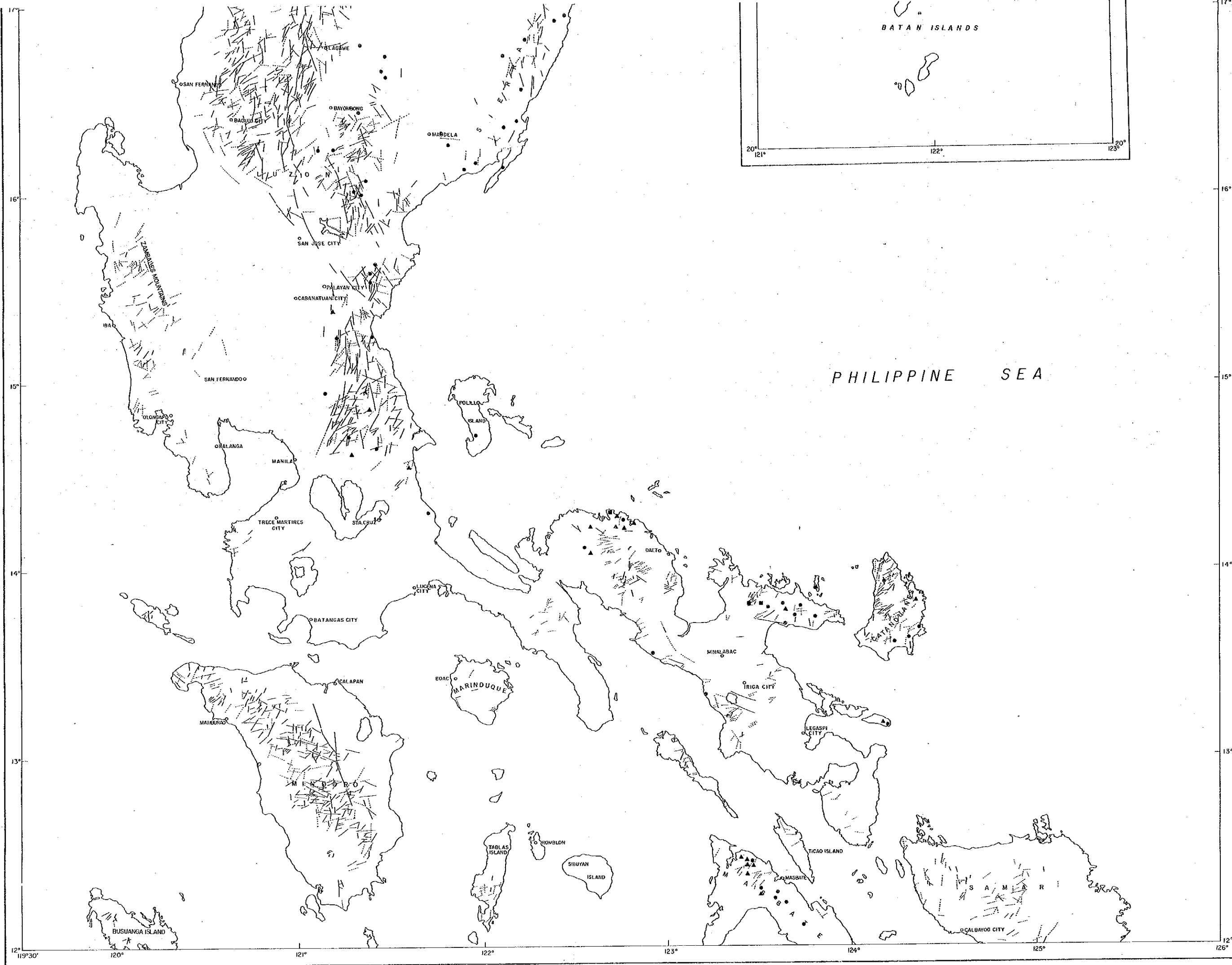
**LINEAMENT AND MAJOR METALLIC
MINERAL DISTRIBUTION MAP**

LOCATION INDEX

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
JUNE 1985, FIRST EDITION



- LEGEND**
- Major lineament
 - Minor lineament
 - Subtle lineament
 - Curvilinear
 - Circular feature
- Major metallic mineral distribution
- Cu : ●
 - Au/Ag : ▲
 - Cr/Ni-Co : ■

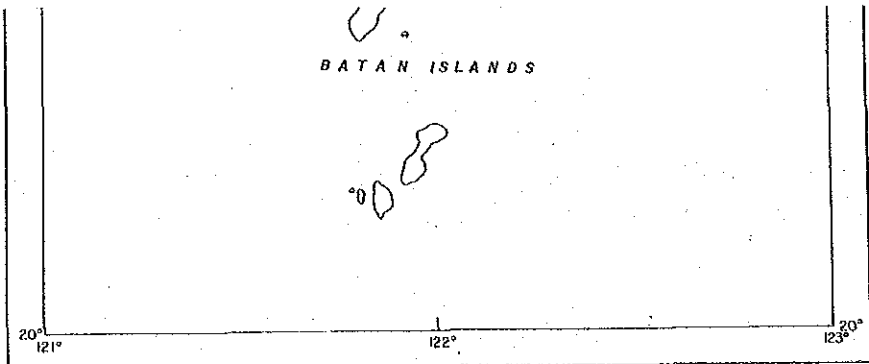
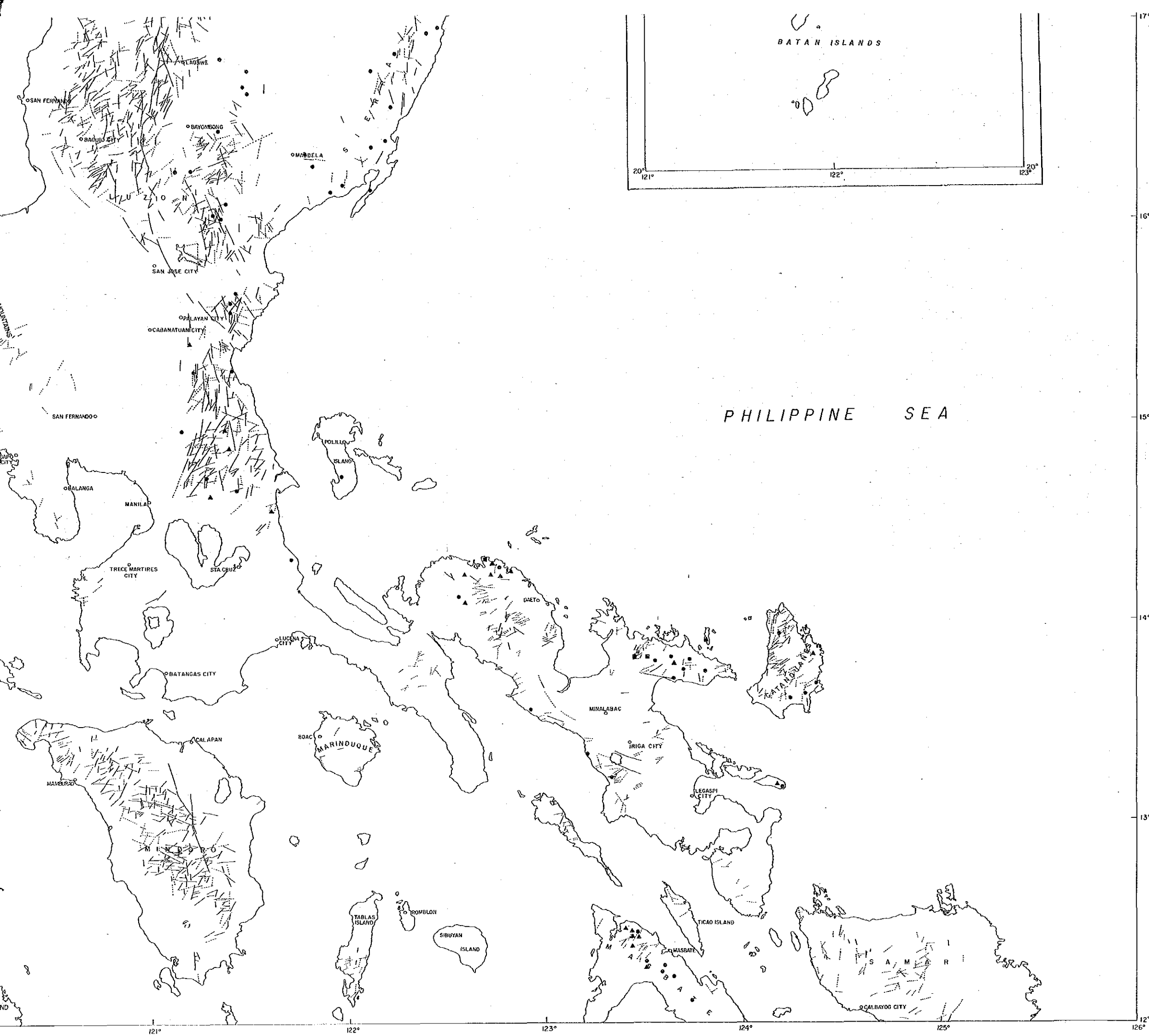


Major metal

Cu

Au/Ag

Cr/Ni-Co

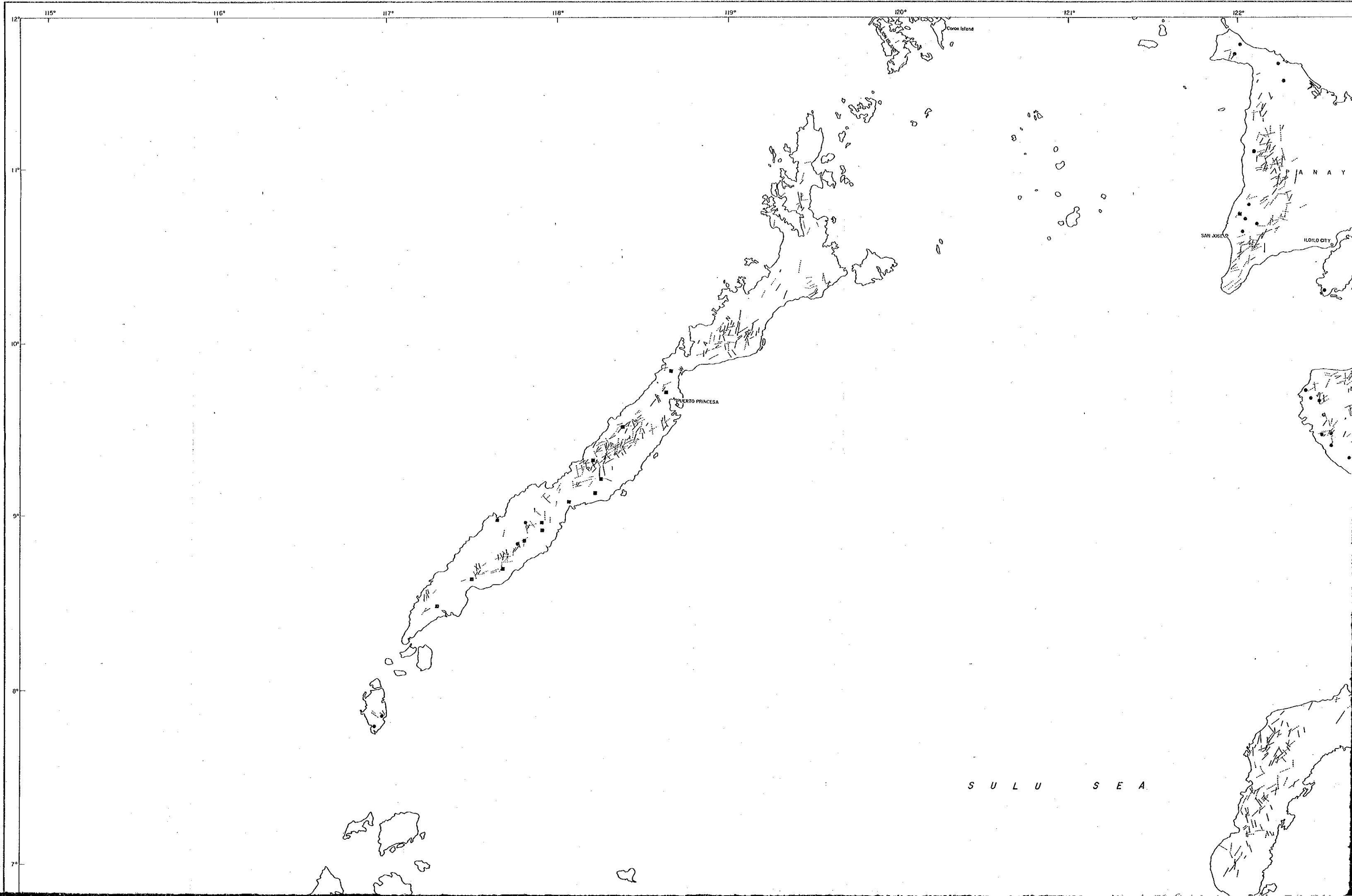


LEGEND

- Major lineament
- Minor lineament
- Subtle lineament
- Curvilinear
- Circular feature

Major metallic mineral distribution

- Cu : ●
- Au/Ag : ▲
- Cr/Ni-Co : ■



115° 116° 117° 118° 119° 120° 121° 122°

12°
11°
10°
9°
8°
7°

S U L U S E A

PUERTO PRINCESA

SAN JOSE

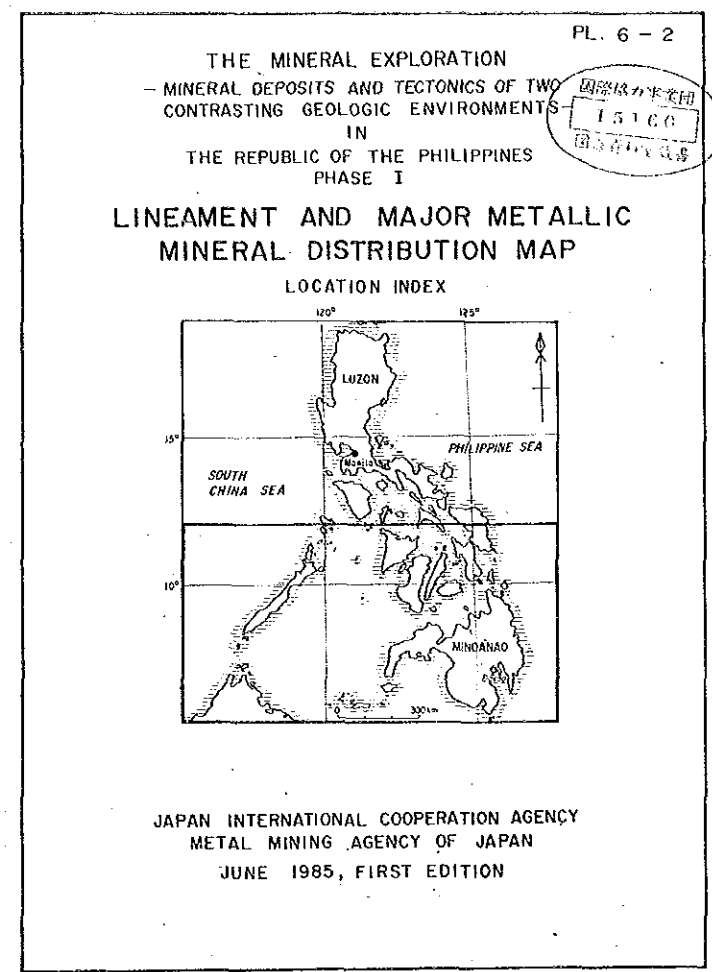
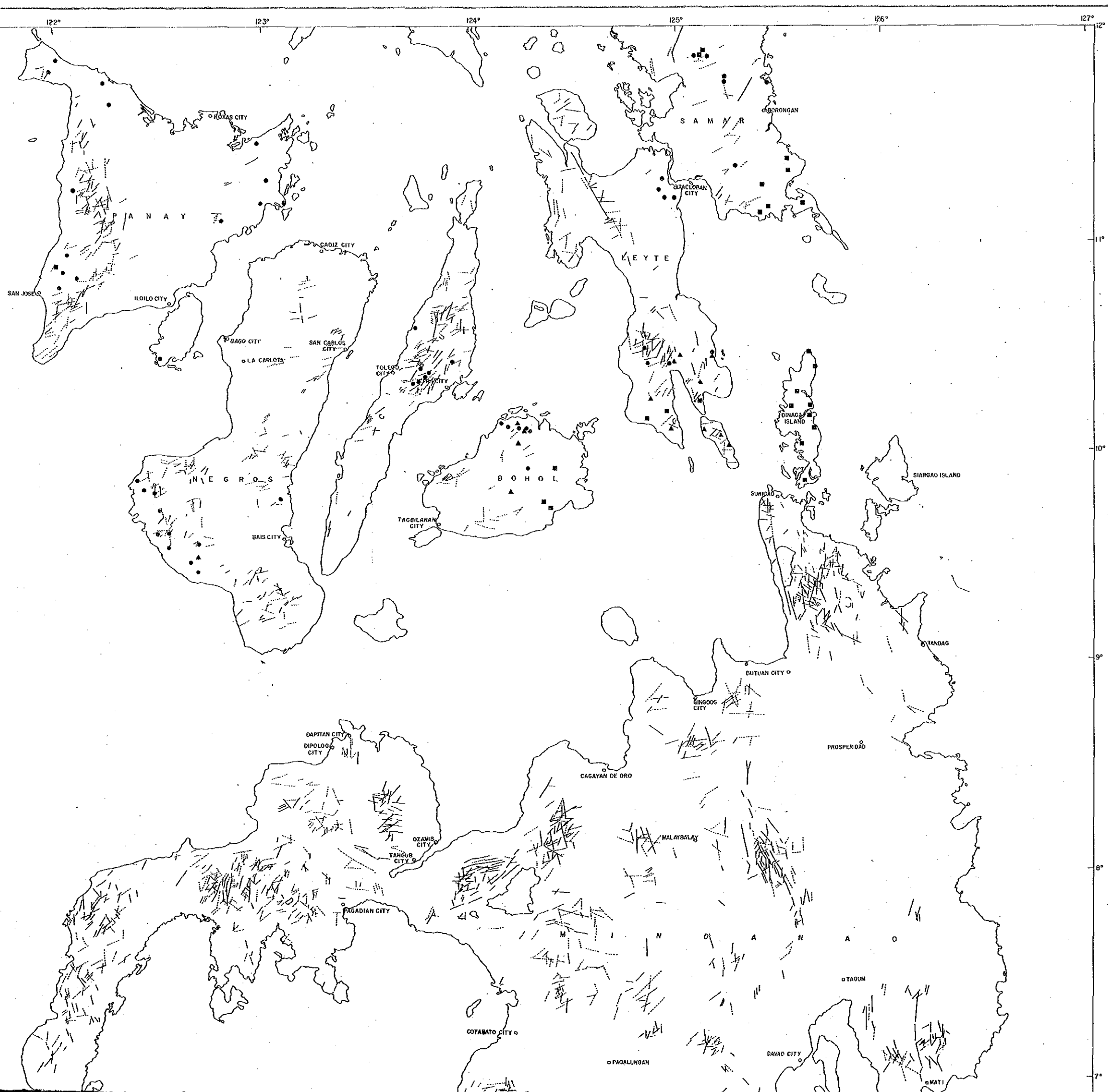
ILOILO CITY

Coron Island

PANAY

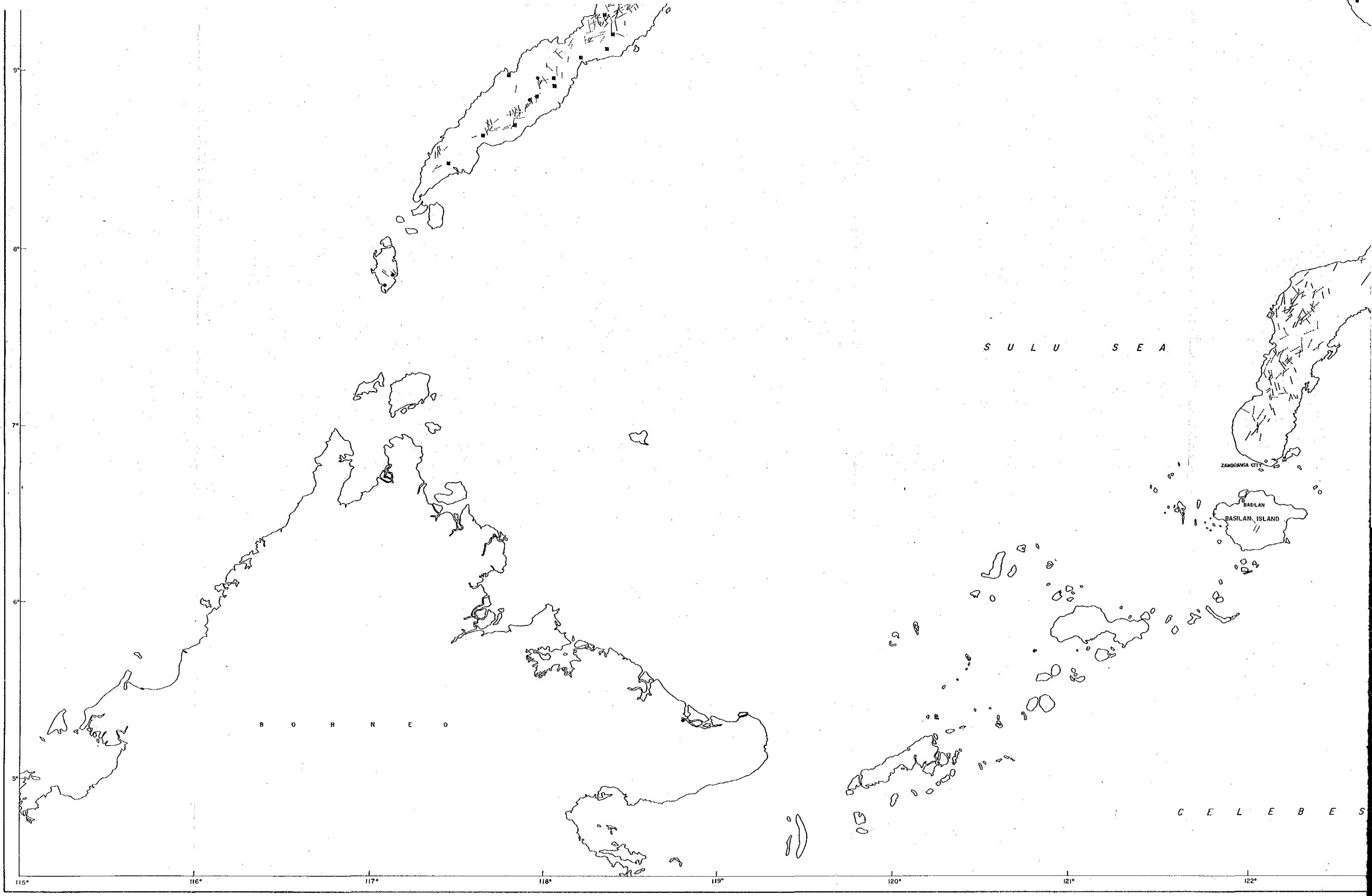


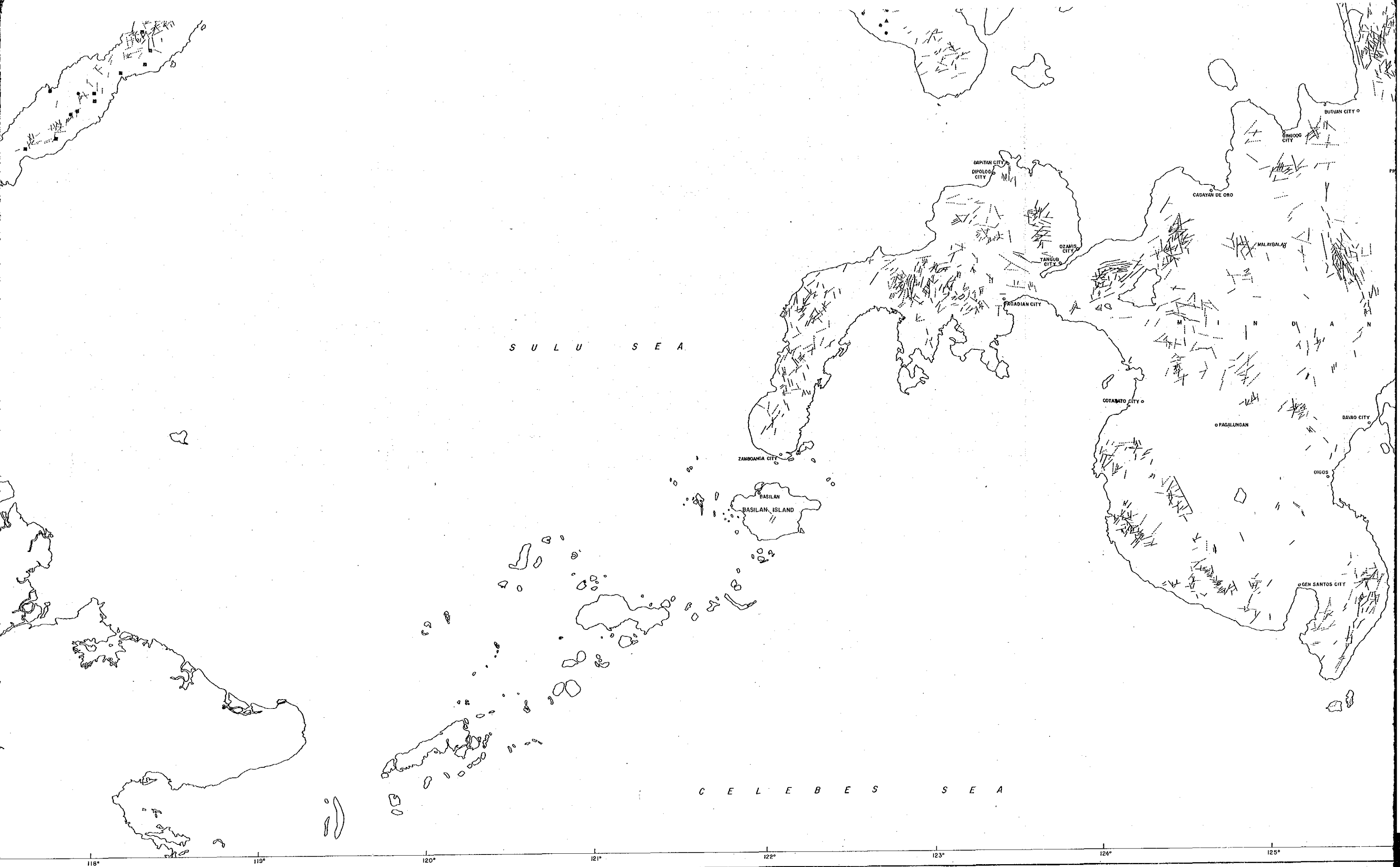
S U L U S E A



LEGEND

- Major lineament
 - Minor lineament
 - Subtle lineament
 - Curvilinear
 - Circular feature
- Major metallic mineral distribution
- Cu : ●
 - Au/Ag : ▲
 - Cr/Ni-Co : ■

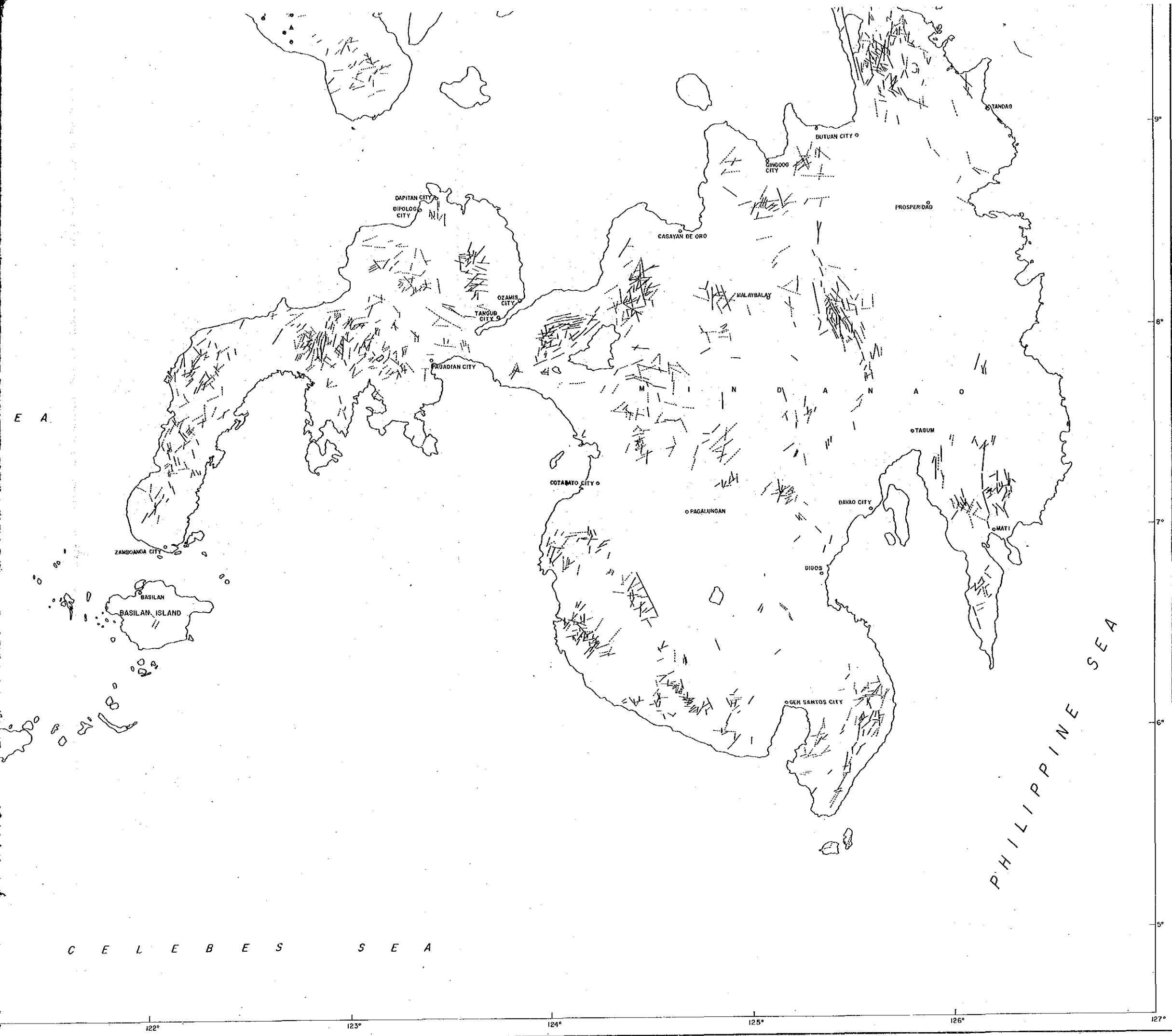









S U L U S E A

C E L E B E S S E A

118° 119° 120° 121° 122° 123° 124° 125°

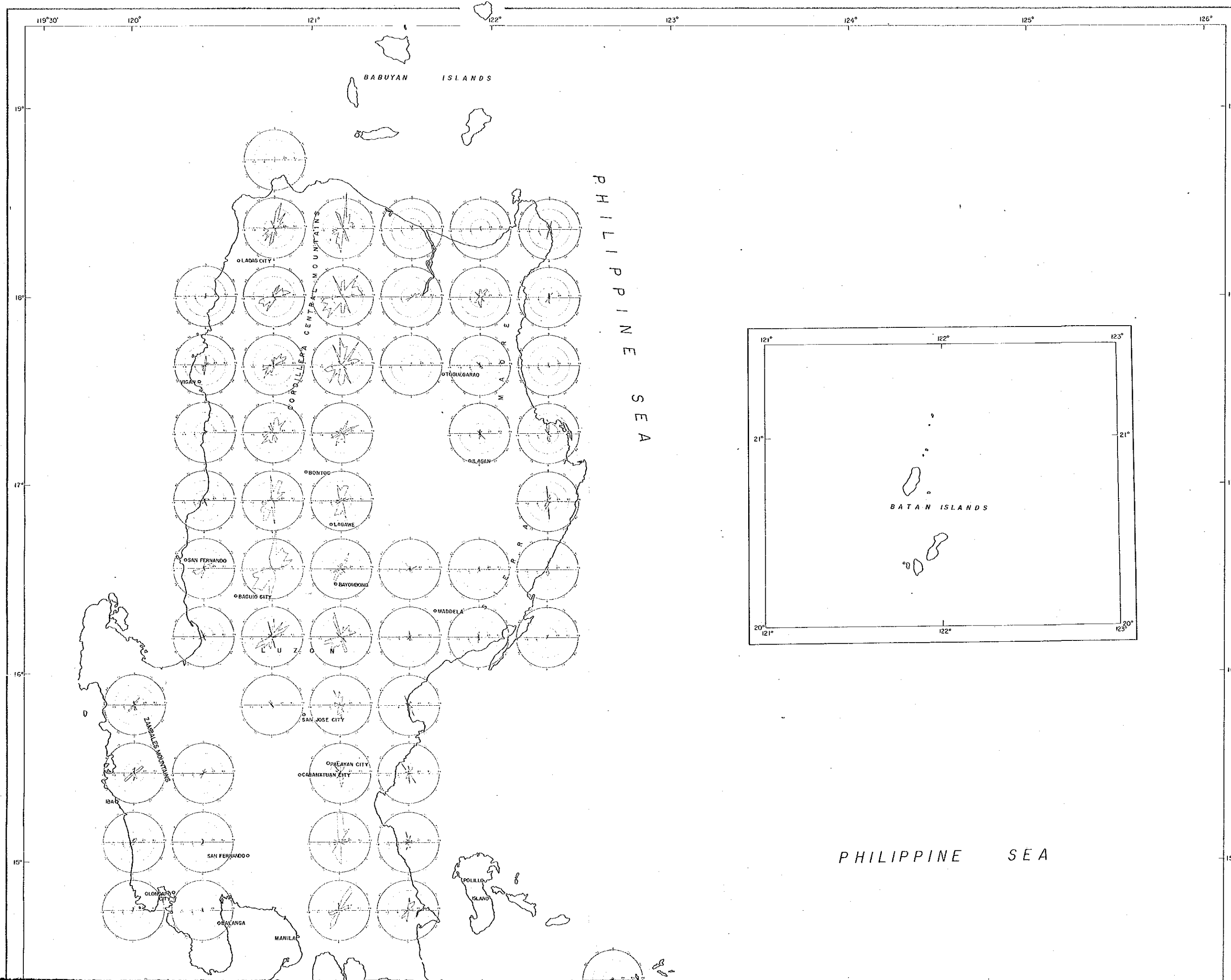


LEGEND

-  Major lineament
-  Minor lineament
-  Subtle lineament
-  Curvilinear
-  Circular feature

Major metallic mineral distribution

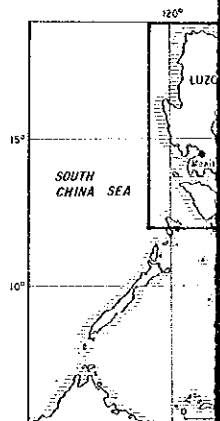
- Cu : ●
- Au/Ag : ▲
- Cr/Ni-Co : ■



THE MINERAL
 MINERAL DEPOSITS AND
 CONTRASTING GEOLOGY
 IN
 THE REPUBLIC OF
 PHASE

ROSE DI

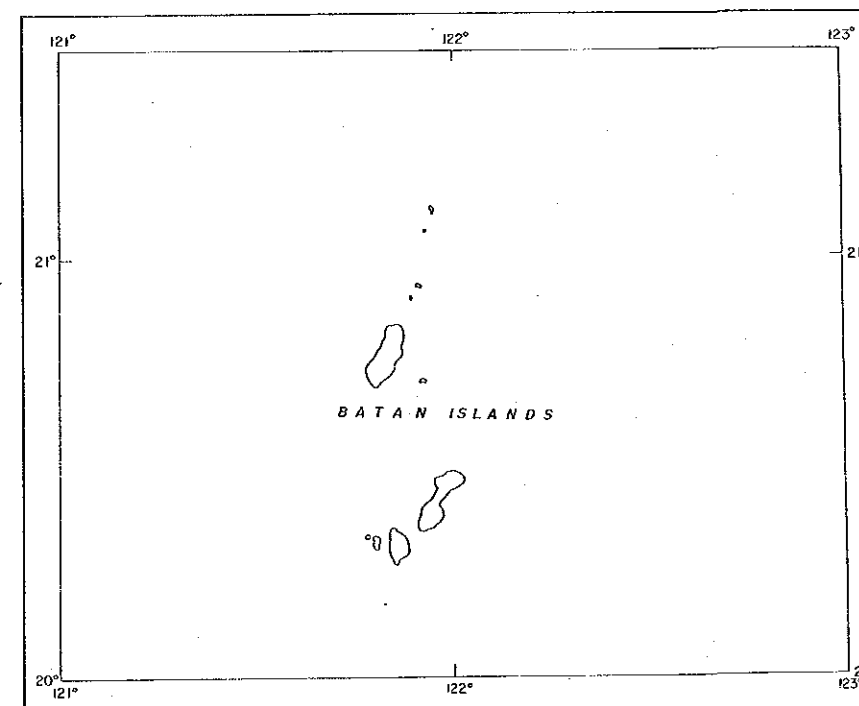
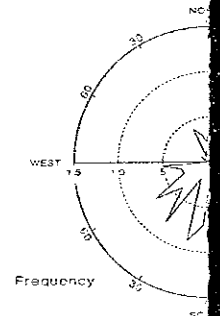
LOCATIO



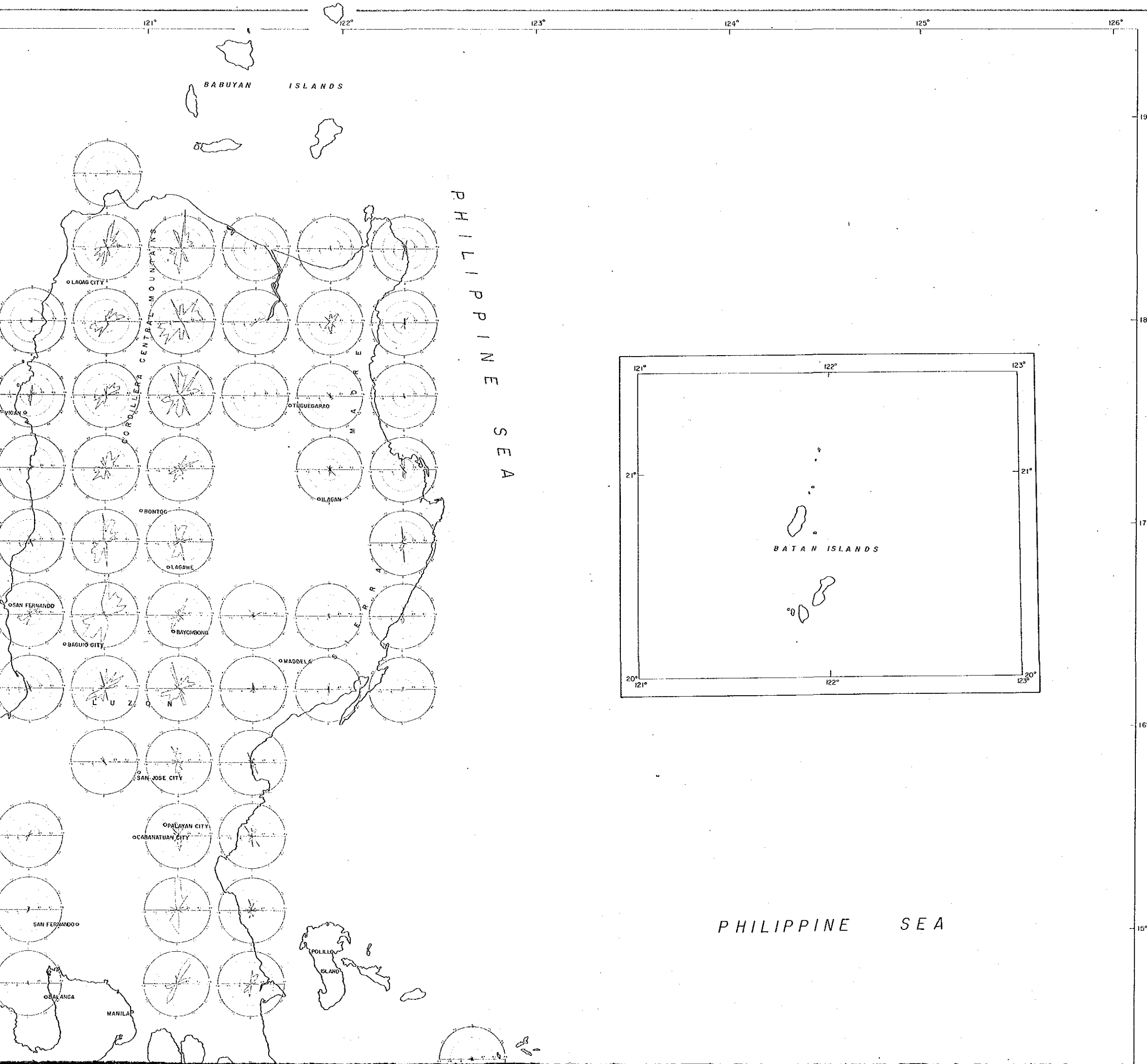
JAPAN INTERNATIONAL
 METAL MINING AG
 JUNE 1985, F

Scale 1
 0 50

LEG



PHILIPPINE SEA



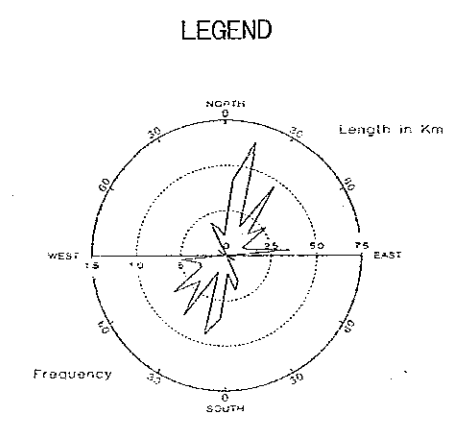
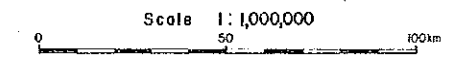
PL. 7 - 1

THE MINERAL EXPLORATION
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IN
THE REPUBLIC OF THE PHILIPPINES
PHASE I

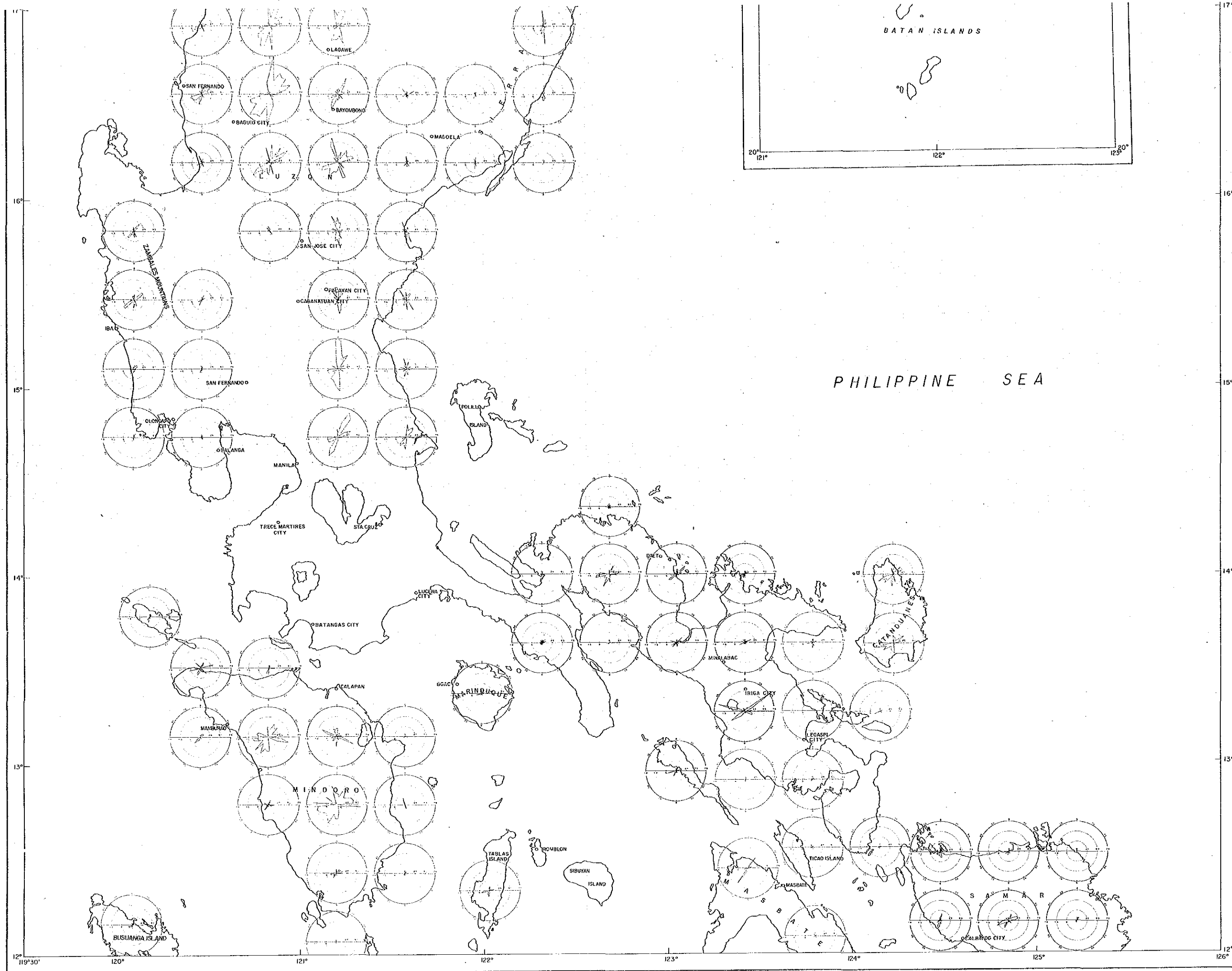
ROSE DIAGRAM

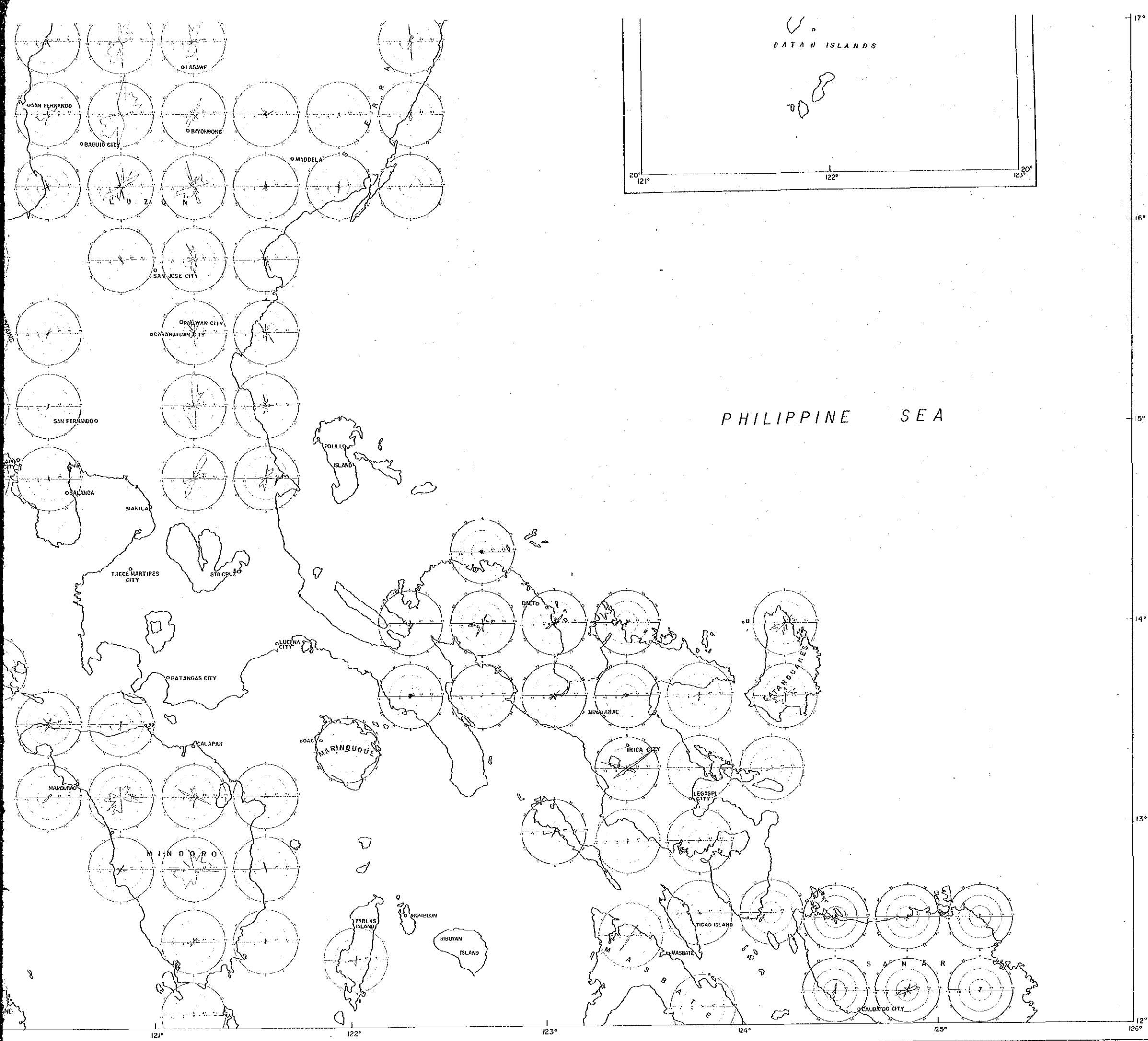
LOCATION INDEX

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
JUNE 1985, FIRST EDITION

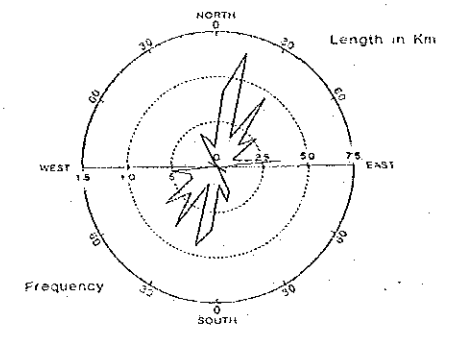


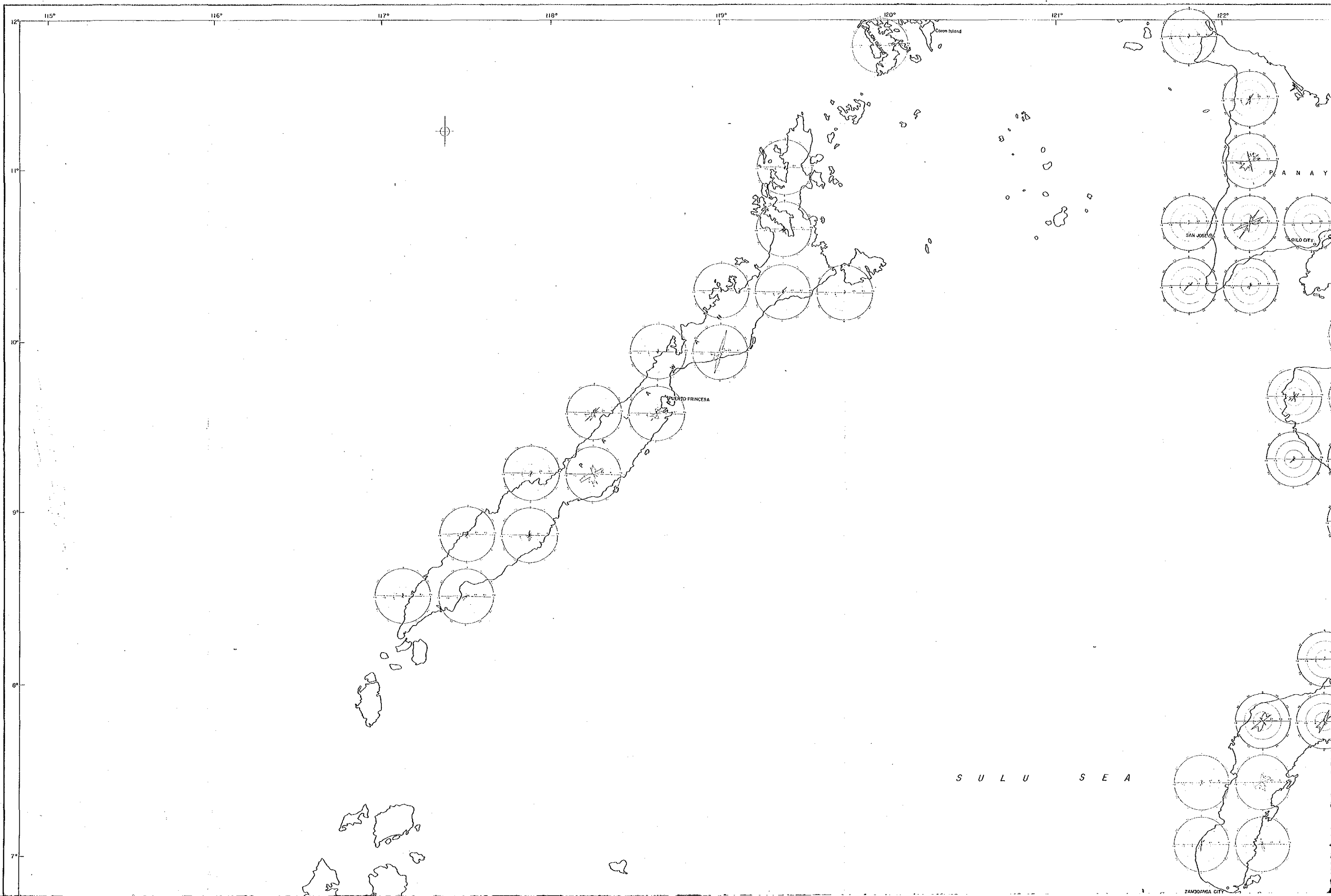
PHILIPPINE SEA

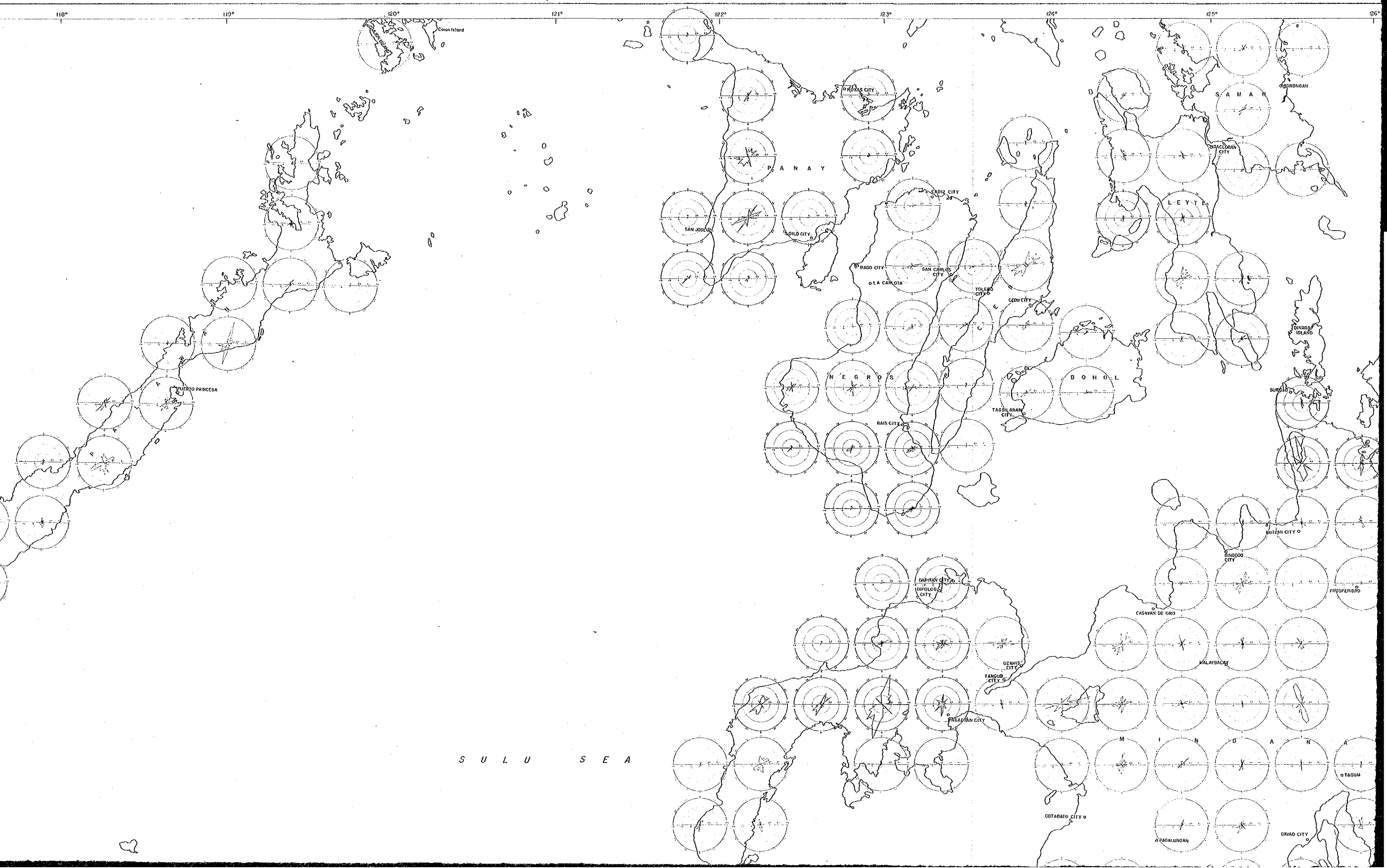




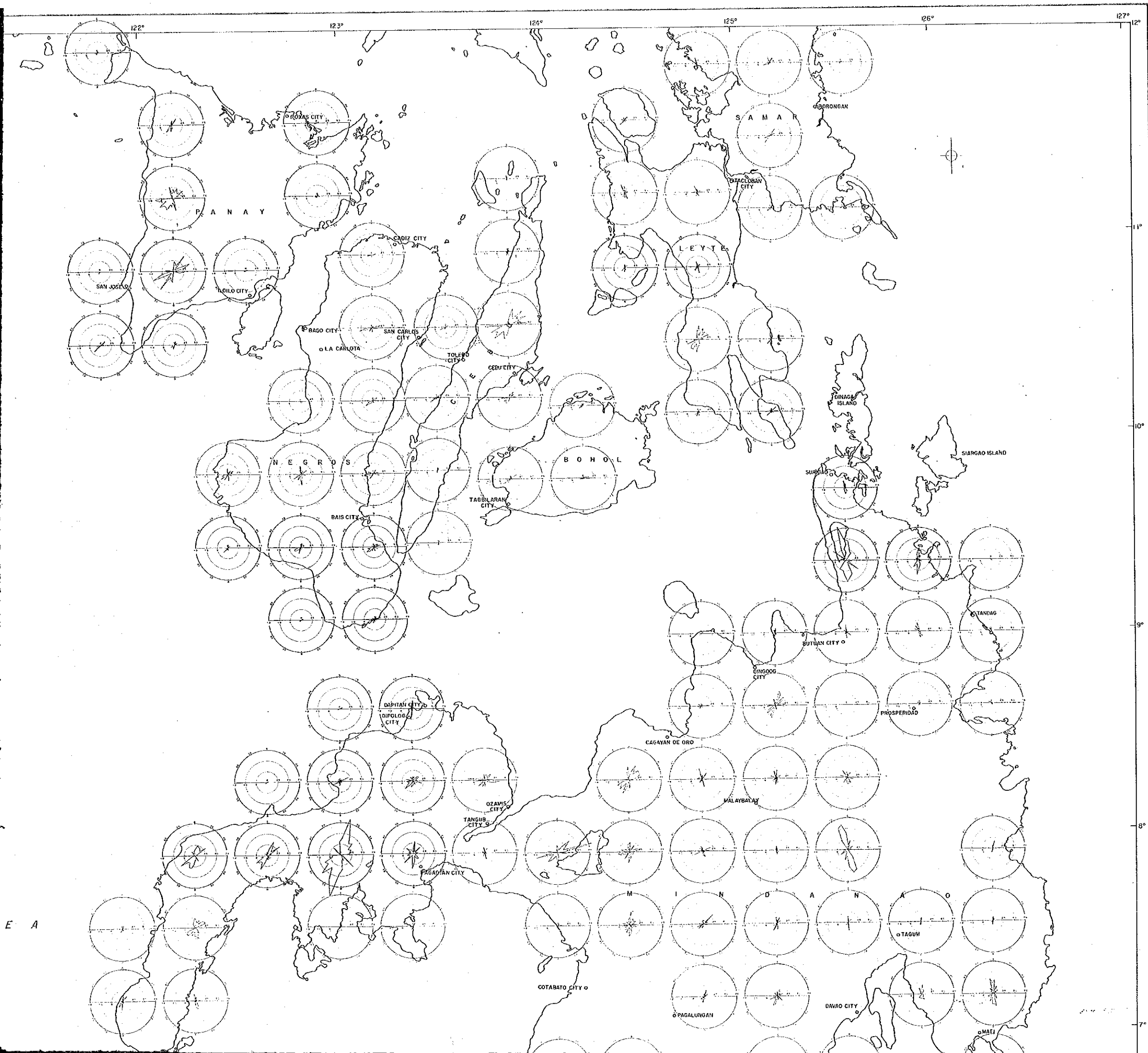
LEGEND







S U L U S E A



PL. 7-2

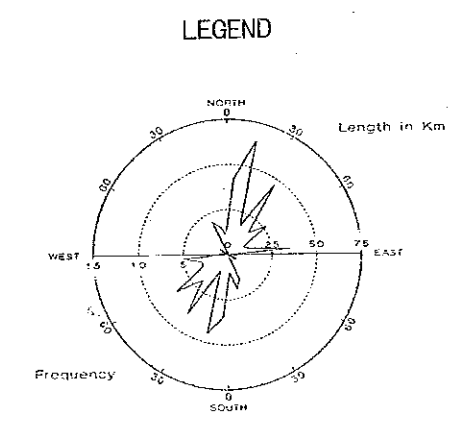
THE MINERAL EXPLORATION
 - MINERAL DEPOSITS AND TECTONICS OF TWO
 CONTRASTING GEOLOGIC ENVIRONMENTS -
 IN
 THE REPUBLIC OF THE PHILIPPINES
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ROSE DIAGRAM

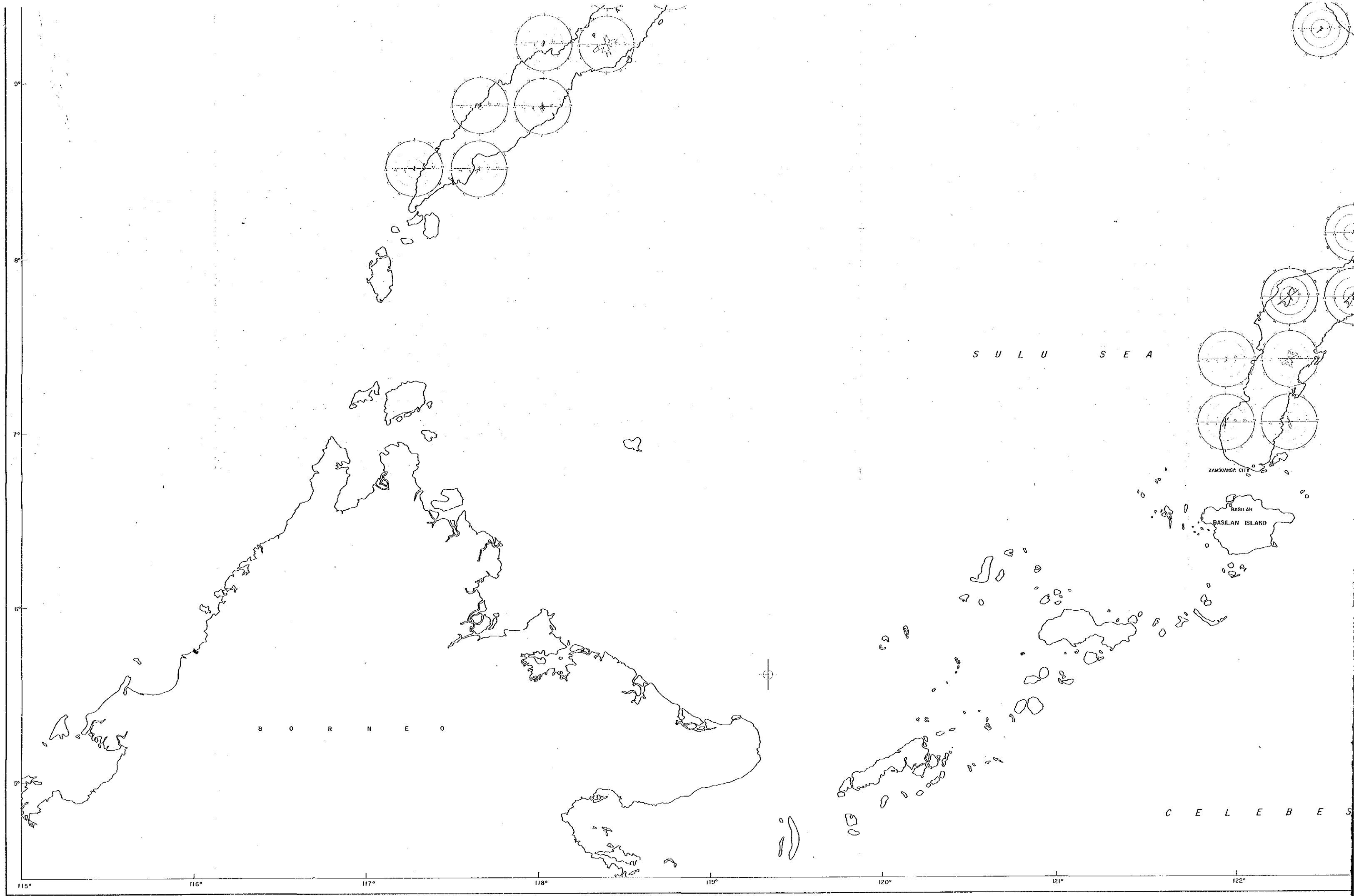
LOCATION INDEX

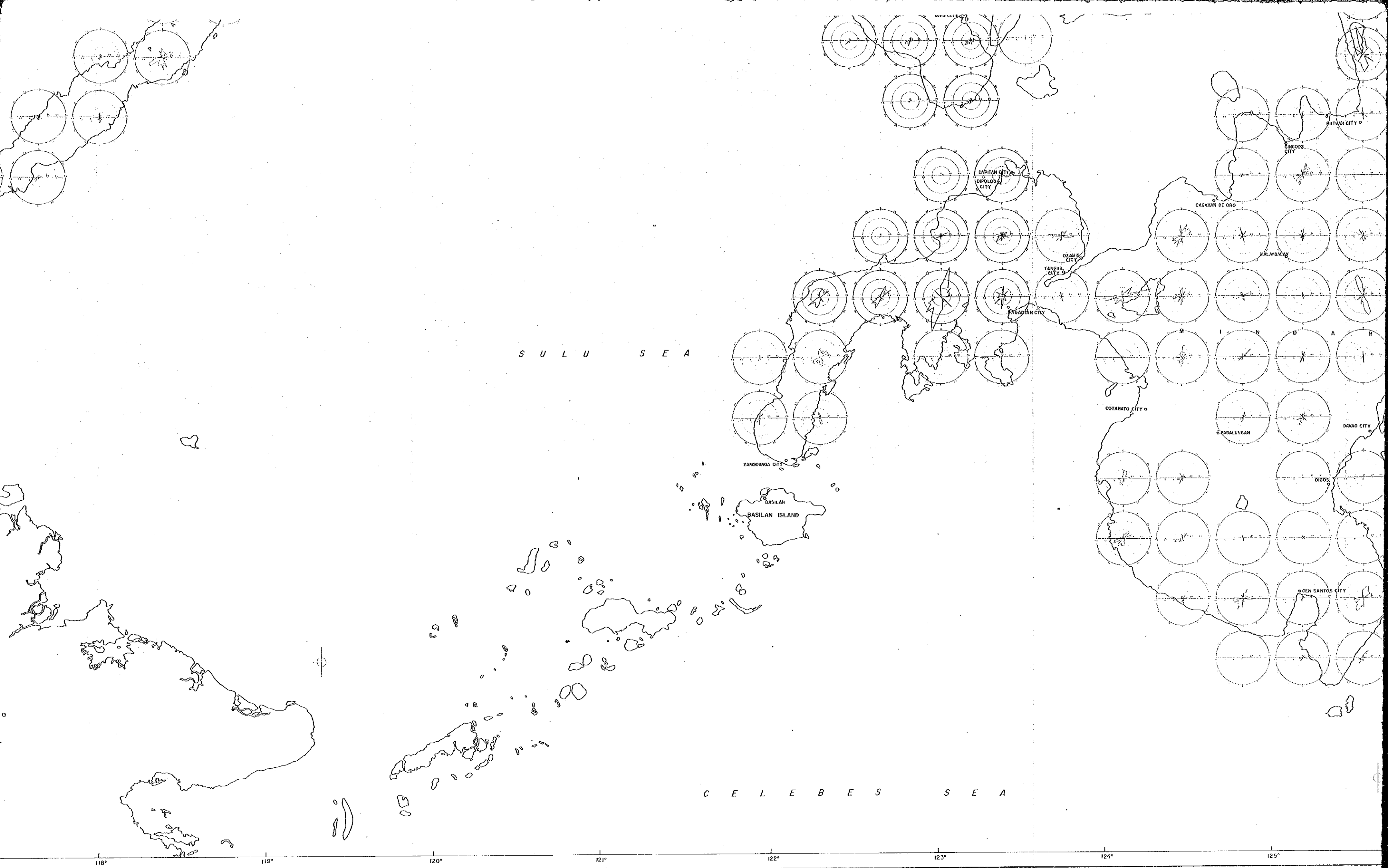
JAPAN INTERNATIONAL COOPERATION AGENCY
 METAL MINING AGENCY OF JAPAN
 JUNE 1985, FIRST EDITION

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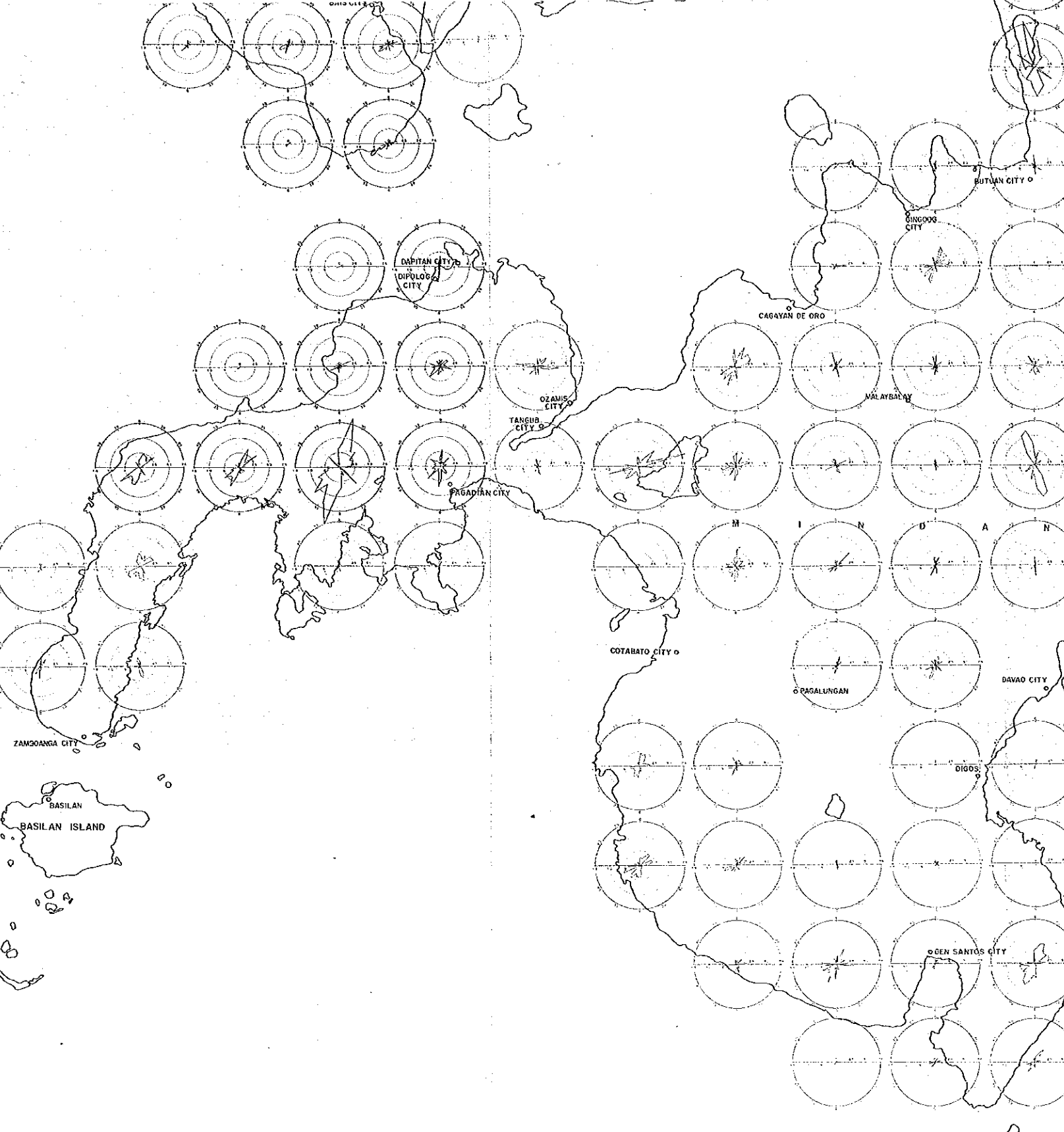




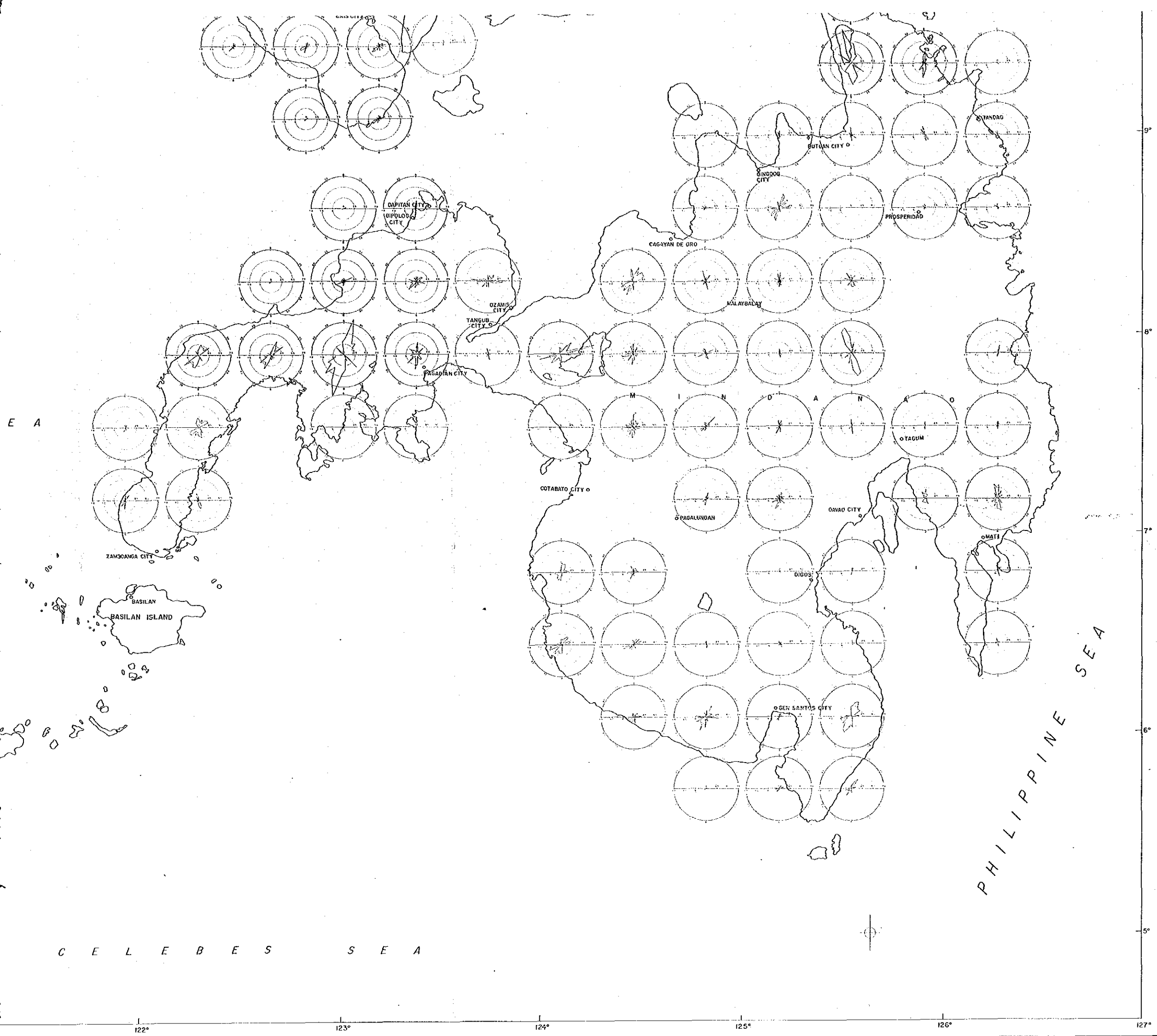
S U L U S E A

C E L E B E S S E A

118° 119° 120° 121° 122° 123° 124° 125°



DAPITAN CITY
DIPULOG CITY
ZAMBOANGA CITY
BASILAN
BASILAN ISLAND
TANGHER CITY
OLANUS CITY
CAGAYAN DE ORO
MALAYBARI
M I N D A O
COTABATO CITY
PAGALUNGAN
DAVAO CITY
DIGOS
GEN SANTOS CITY



LEGEND

