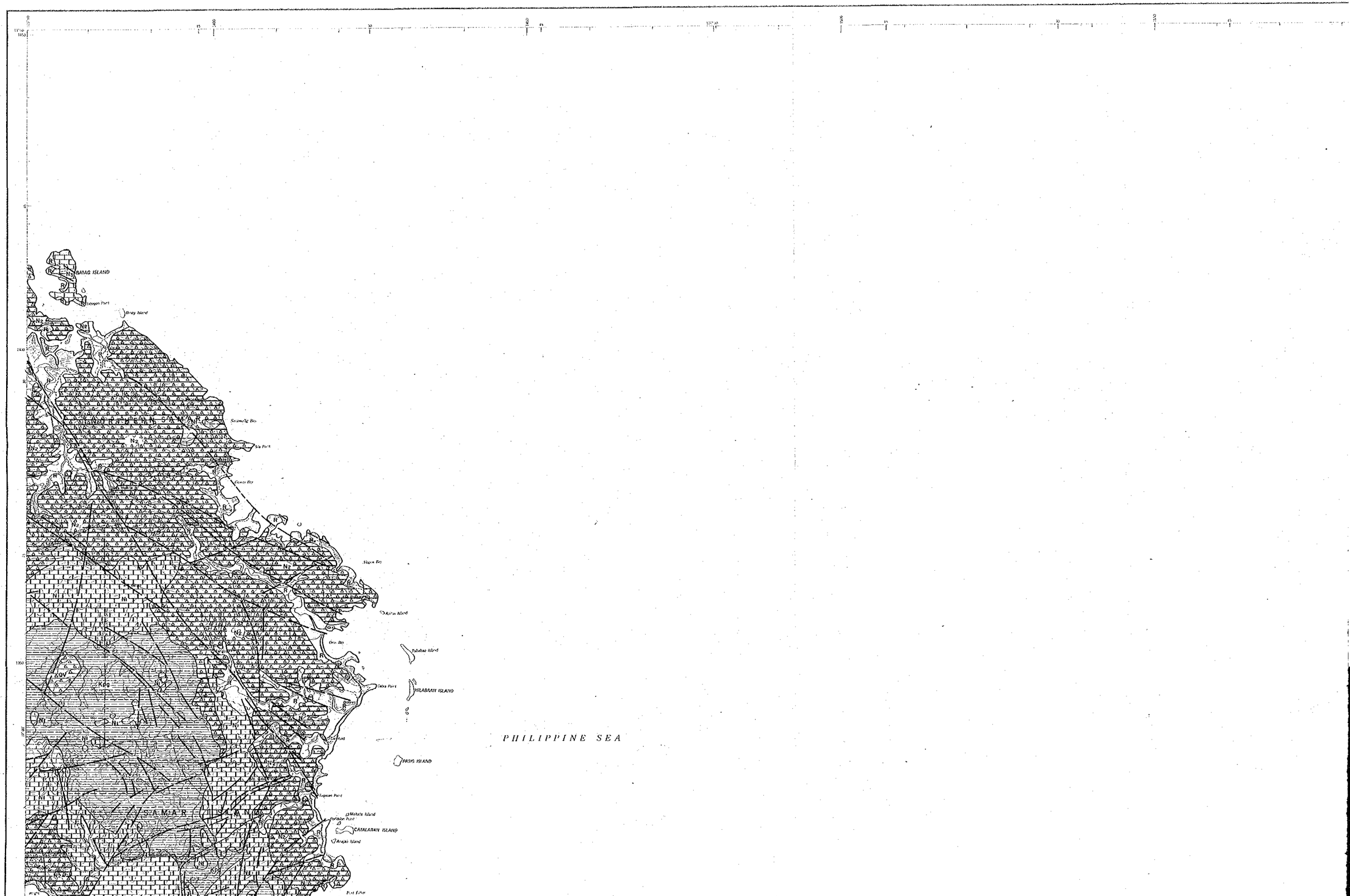

BATAG ISLAND
Hilabaan Island
CATALARAN ISLAND
PHILIPPINE SEA
S A M A R

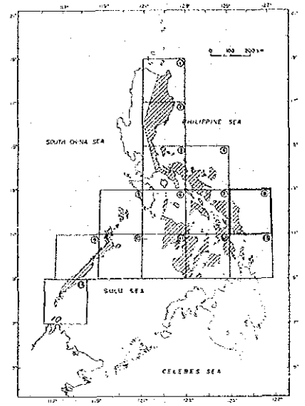
付図 4 －8

フィリピン共和国
鉱物資源基本図調査

第 1 年次

国際協力事業団
15158
図書資料室受入

編集地質図



昭和60年 6 月 (第 1 版)

国際協力事業団

金属鉱業事業団

Scale 1 : 250,000

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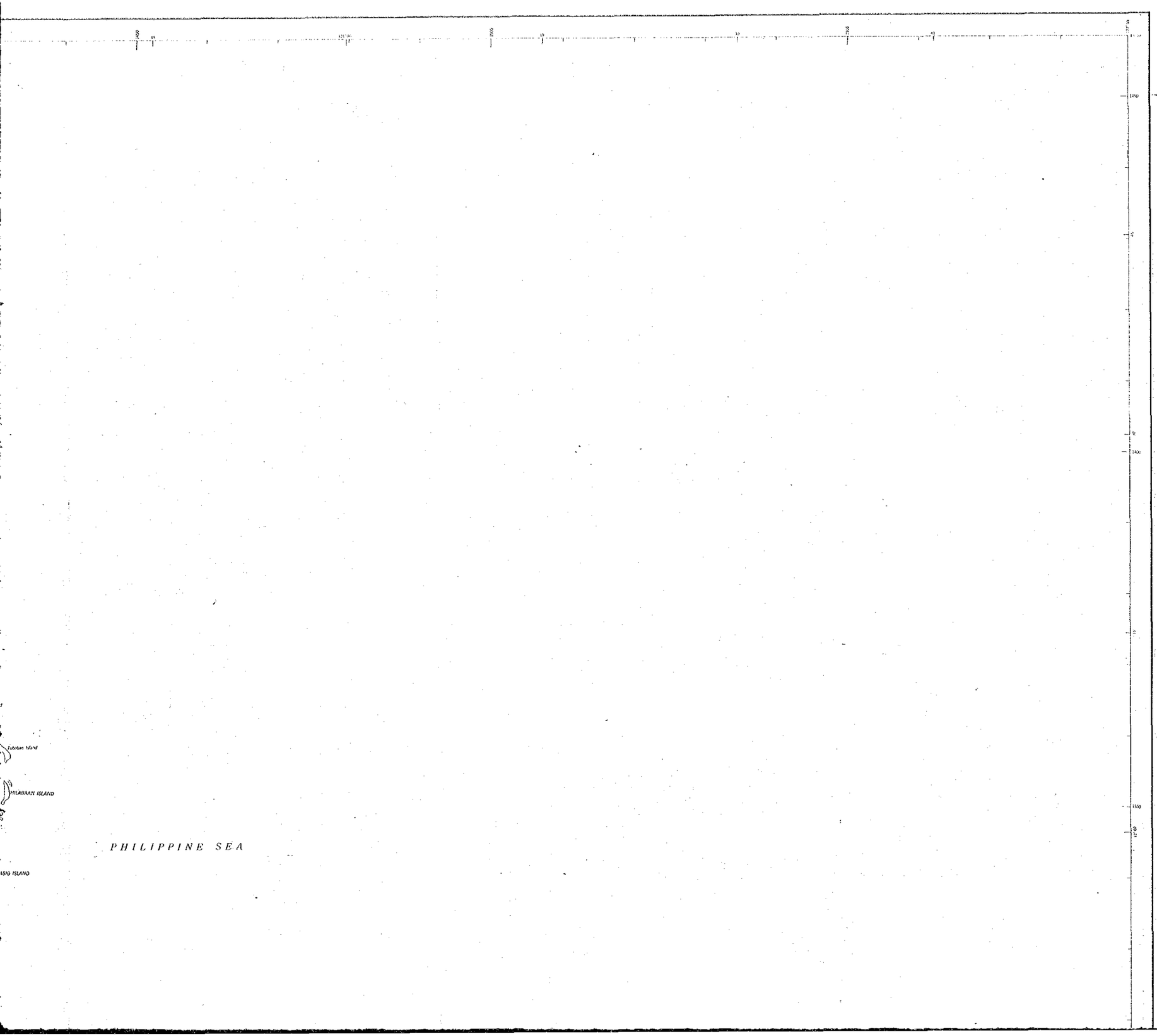


LEGEND

SEDIMENTARY AND METAMORPHIC ROCKS

R	Recent	Alluvium.
Q	Quaternary	Rised coral reef limestone with some interbedded sand, gravel and calcareous clay
N2	Upper Miocene	Composed of tuffaceous sandstone and shale with thin beds of limestone.
N1	Middle-Upper Miocene	Composed of hard fine to coarse grained tuffaceous sandstone and graywackes with interbedded thick limestone and shale.
Kpg	Cretaceous-Paleogens	Spilitic basic and intermediate flows interbedded with metamorphased graywacke, shale and minor red cherty sediment.
Bc	Basement	Undifferentiated amphibolite and quartzo-feldspathic schist and epidote actinolite-albite schist associated with marble exposed along narrow zone of close folding broken by upthrust.

IGNEOUS ROCKS

INTRUSIVES

Uc	Cretaceous	Undifferentiated ultramafics and plutonic rocks predominantly serpentinized peridotite and late gabbro generally thrusted and up-faulted.

EXTRUSIVES

Qv	Quaternary	Non-active volcanic cones generally pyroxene andesite, also dicite and/or andesite plugs.

GEOLOGIC SYMBOLS

Geologic contact.

High angle fault. Dashed where inferred, arrow indicate strik-slip movement.

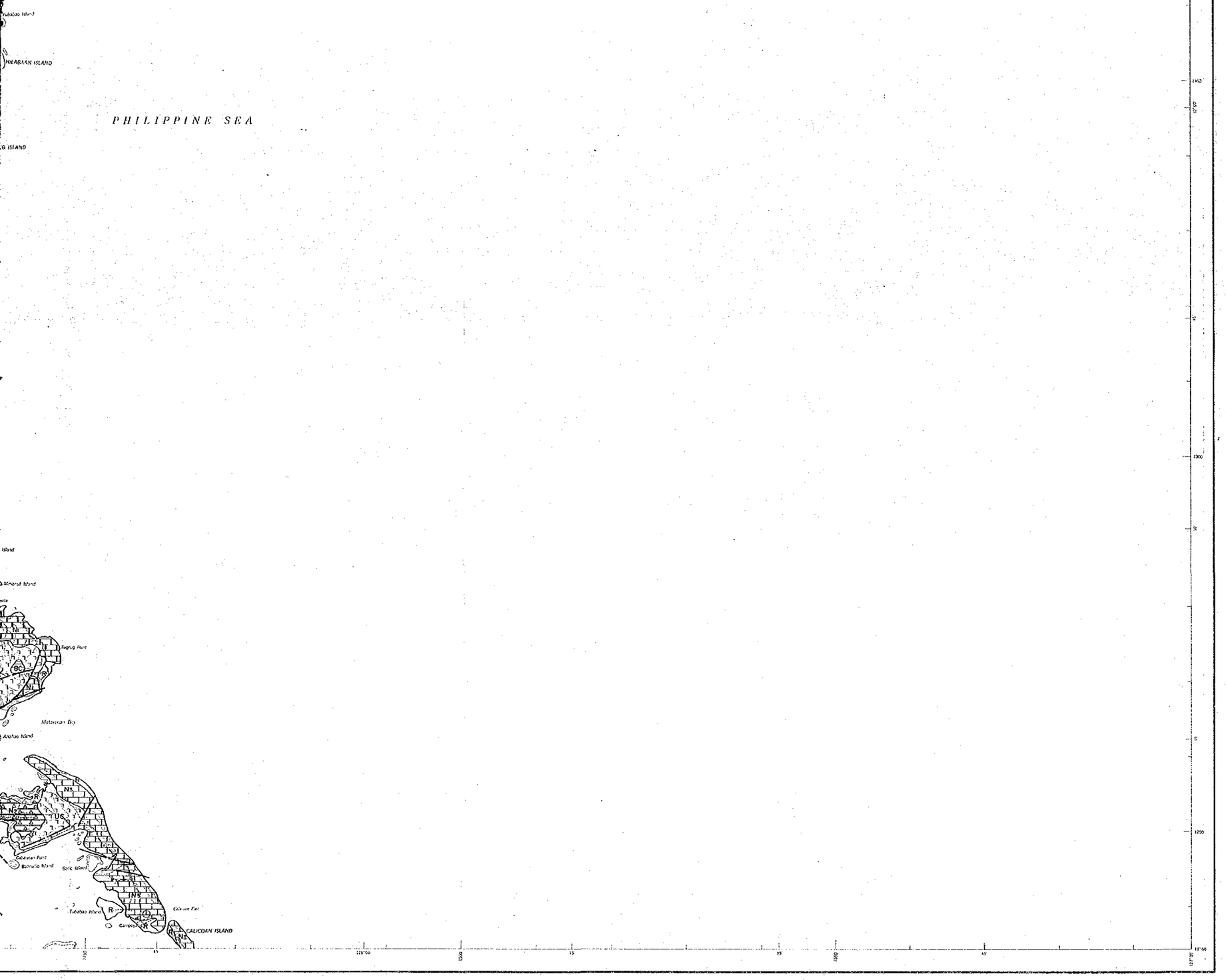
Thrust fault. Dashed where inferred, saw-teeth on overriding side.

Normal fault. Hachures on downthrown side.

Anticlinal axis with plunge.

LEGEND

Capital city	● MANILA	Solid mineral or metals	
City, town or barrio	◉ BATANGAS	Hundred square part	
Capital of province	◎ MALOLOS	Fine clay	
Municipality or municipal district	○ Malaya	Rice land	
Barrio	○ CAGAGO	Swamp or marsh	
Normal gage railroad		Mangrove	
Narrow gage railroad		Bridge markers: National, Provincial	
International boundary	+ + + + + +	Land: Coal, Mineral	
Provincial boundary		Water: Coal, Mineral	
City boundary		Soil: Coal and military, Land, Water	
Reservation boundary: Naval or military, forestry, etc.		Emergency	
First and second class roads			
Third class road			
Public road construction			



Basement — Undifferentiated amphibolite and quartzo-feldspathic schist and epidote actinolite-albite schist associated with marble exposed along narrow zone of close folding broken by upthrust.

IGNEOUS ROCKS

INTRUSIVES

Cretaceous — Undifferentiated ultramafics and plutonic rocks predominantly serpentinized peridotite and late gabbro generally thrusted and up-faulted.

EXTRUSIVES

Quaternary — Non-active volcanic cones generally pyroxene andesite, also dicite and/or andesite plugs.

GEOLOGIC SYMBOLS

Geologic contact.

High angle fault. Dashed where inferred, arrow indicate strik-slip movement.

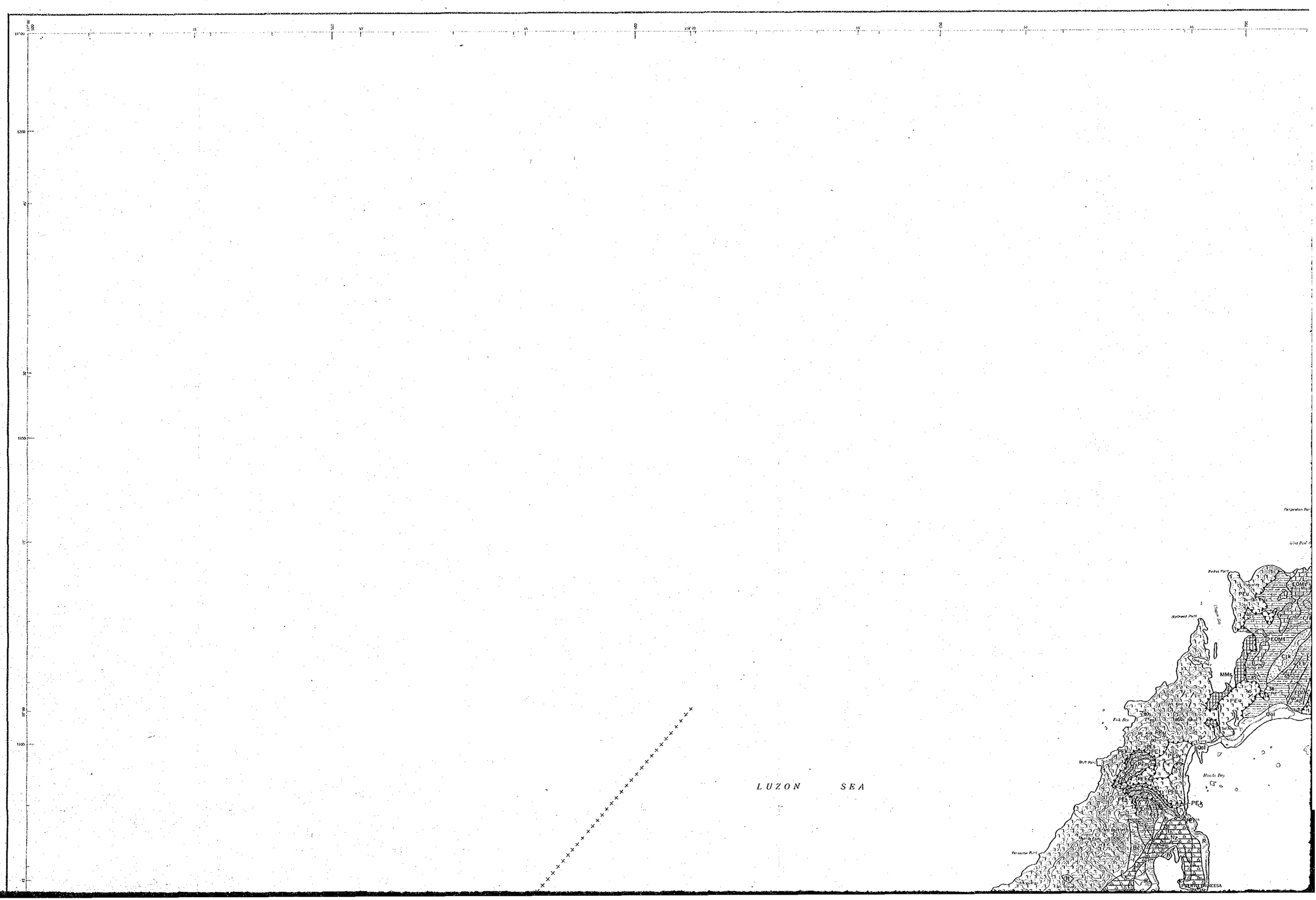
Thrust fault. Dashed where inferred, saw-teeth on overriding side.

Normal fault. Hachures on downthrown side.

Anticlinal axis with plunge.

Synclinal axis with plunge.

Compiled from Geology and mineral Resources Map of Samar Island (1: 250,000)


LUZON SEA
Pangasinan Bay
Silot Point
Pedro Point
Northwest Point
Lingayen Gulf
Fish Bay
Butt Point
Hacienda Bay
Pensacola Point
PUERTO PRINCESA
EOMs
PEu
MMs
Ckk
Ogl
PEl
PEm
PEk
Bs
N2
R

付図 4 − 9

フィリピン共和国
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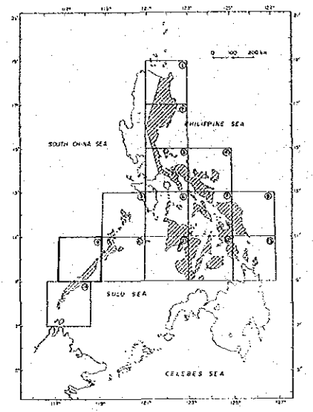
国際協力事業団
1 5 1 5 3

編集地質図



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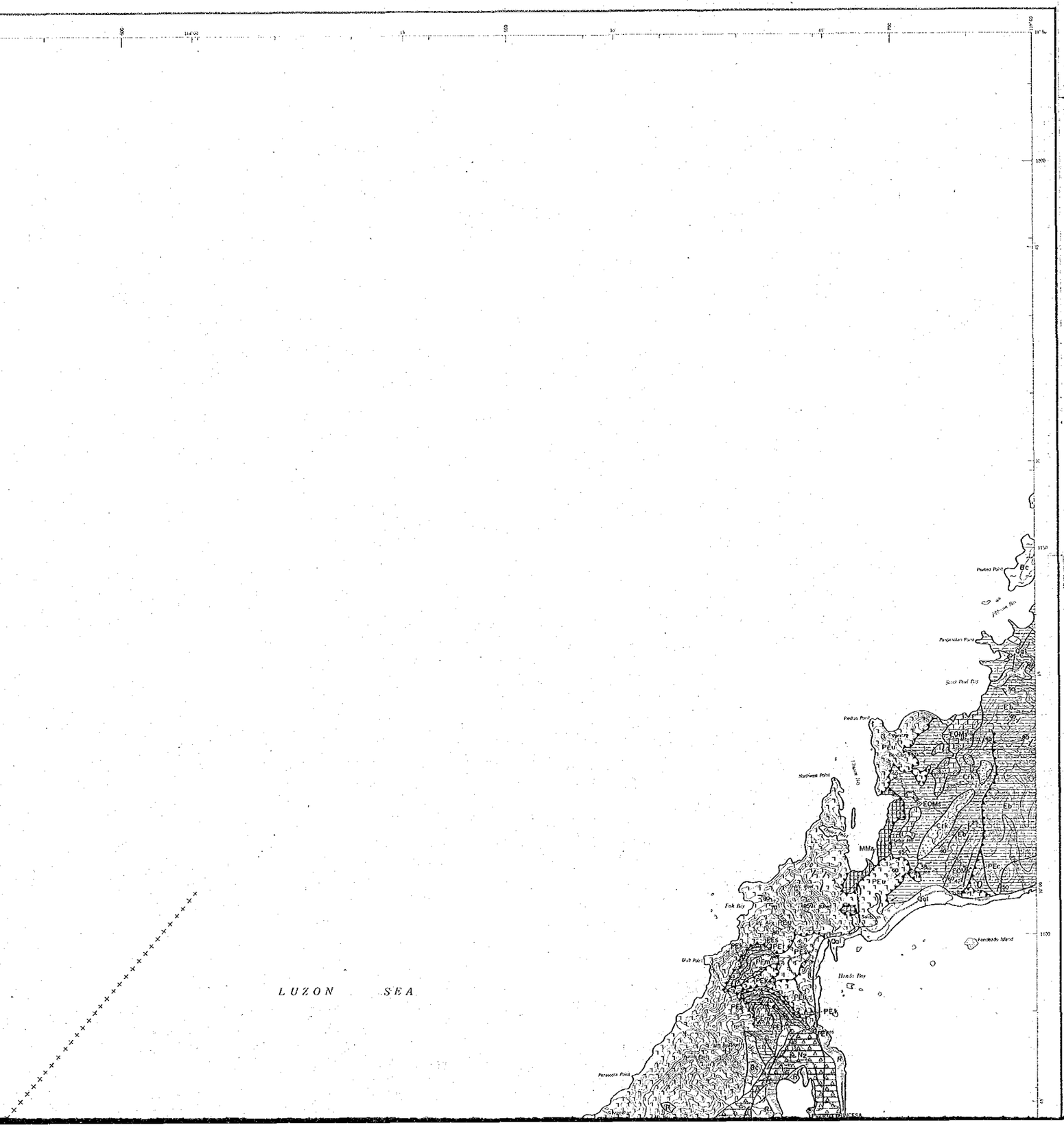
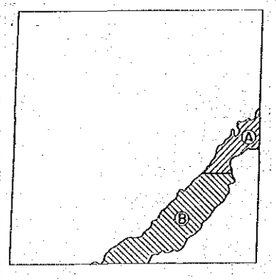
国際協力事業団
金属鉱業事業団

Scale 1 : 250,000

0 10 20 km



LEGEND



Ⓐ Compiled from Geological Map Quadrangles (1:50,000) of 2749-I, V, 2750-I, II, III, 2650-Rand IV by UNDP/BMG Project.

Ⓑ Compiled from Geology and Mineral Resources Map of Palawan Province (1:250,000)

Ⓐ

LITHOLOGICAL UNITS

Quaternary — Qal — Alluvium, Beach

Lower Miocene — EOMS — St. Paul's Limestone

Lower Oligocene — Ed — Sirion Point Diorite

Lower Eocene — Cv — Inalmat Creek Conglomerate

Pre-Lower Eocene — Ch — Balayan Point Turbidites

Mesozoic-Jurassic — MMs — Sagsay Point Tectonic Complex

PEu — Corcoglen Pebbly Phyllite

PEc — Sulu Sea Mud Remapolis

PEs — Siniguan

Paleozoic to Precambrian — PEs — Pulao Basin

PEs — Sea Marine Rubble

PEu — Ulugan Bay Ultramafic Complex

PEc — Metamorphics

Ⓑ

STRATIFIED ROCKS

Recent — R — Alluvium and beach deposits

Recent — Qal — Coral reefs

Pliocene-Pleistocene — Ng — Marine and terrestrial sediments associated with extensive mud volcanoes and massive lenticular gravel deposits

Upper Miocene — Bs — Largely marine clastics and pacific andesitic volcanic flows, partially with pyroclastics associated with silty limestone

Lower Miocene — Bc — Conglomerate, mudstone, shale and reef limestone, associated with some to intermediate flows and pyroclastics

Lower Miocene — Bs — Limestone

Paleocene-Eocene — Ps — Marine deposits, largely shales and slaty, associated with some schists, conglomerate, reef limestone and pyroclastics, sandstones and some andesitic flows and pyroclastics

Cretaceous-Paleogene — Ucm — Greywackes of graywacke and metamorphosed shale with sparse, minor flysch and spilite flows

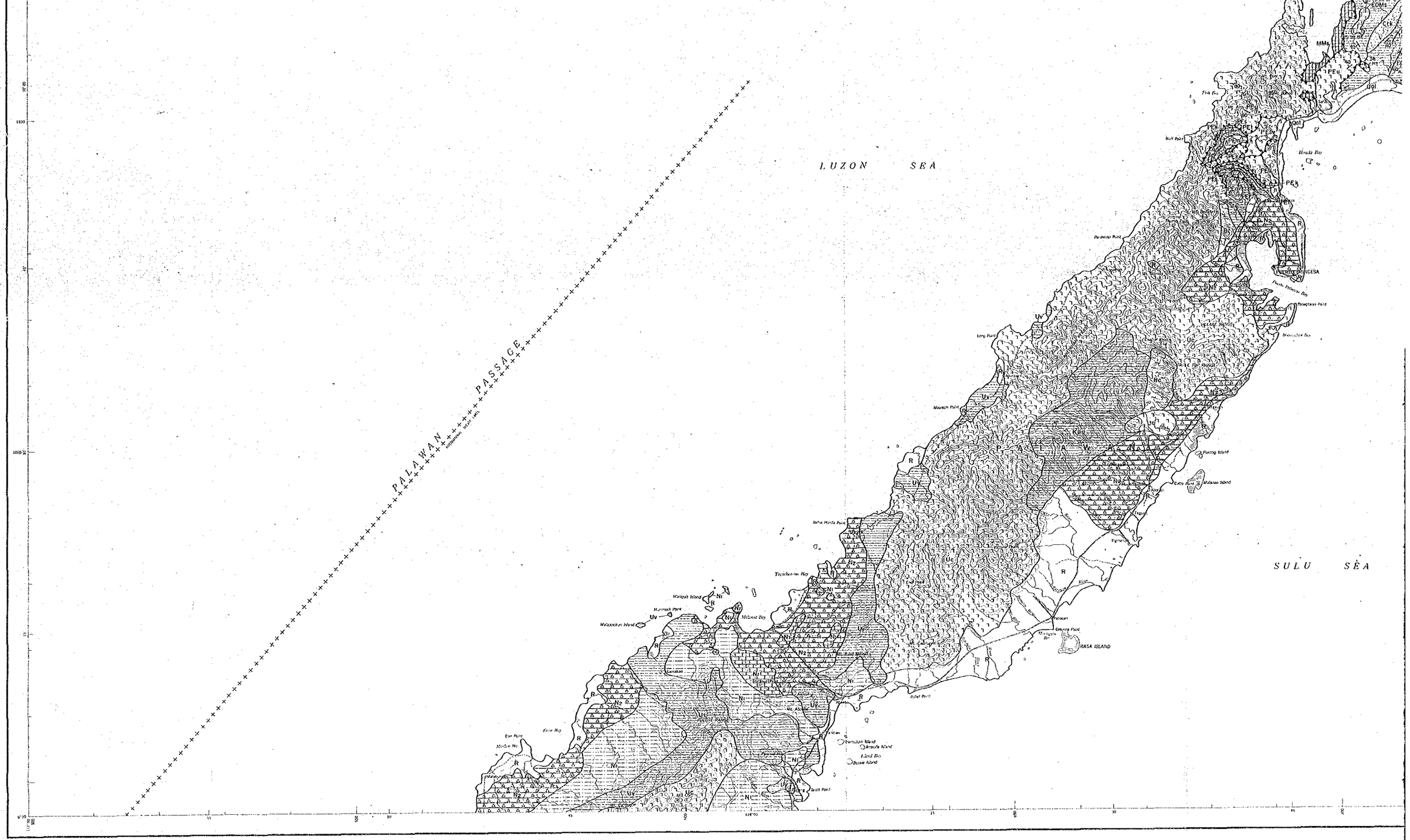
Cretaceous — Ucs — Schistose, metagraywacke graywackes and slate, associated with spilites associated with subordinate chert and limestone

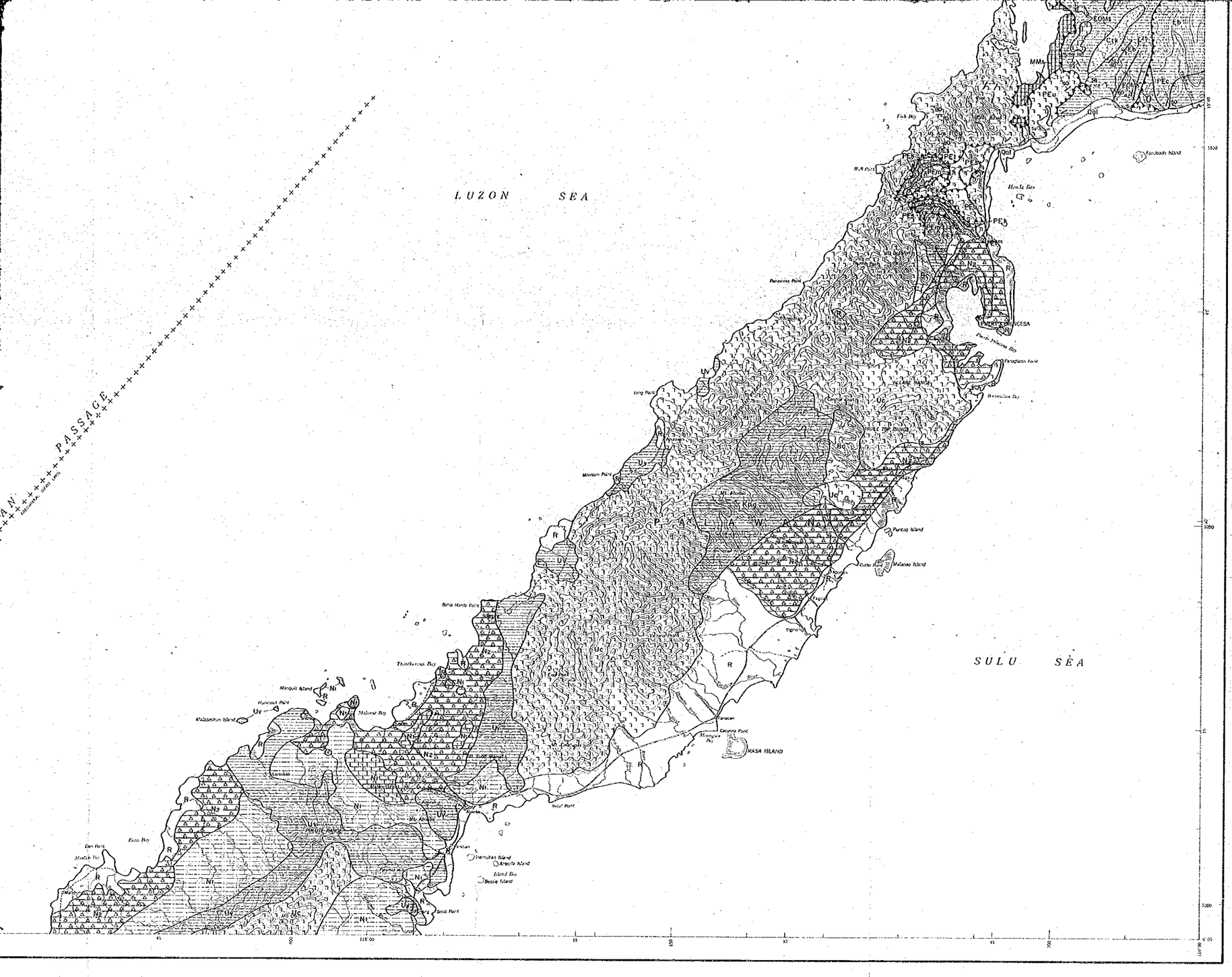
Precambrian Complex — Ucc — Undifferentiated schist and quartzite

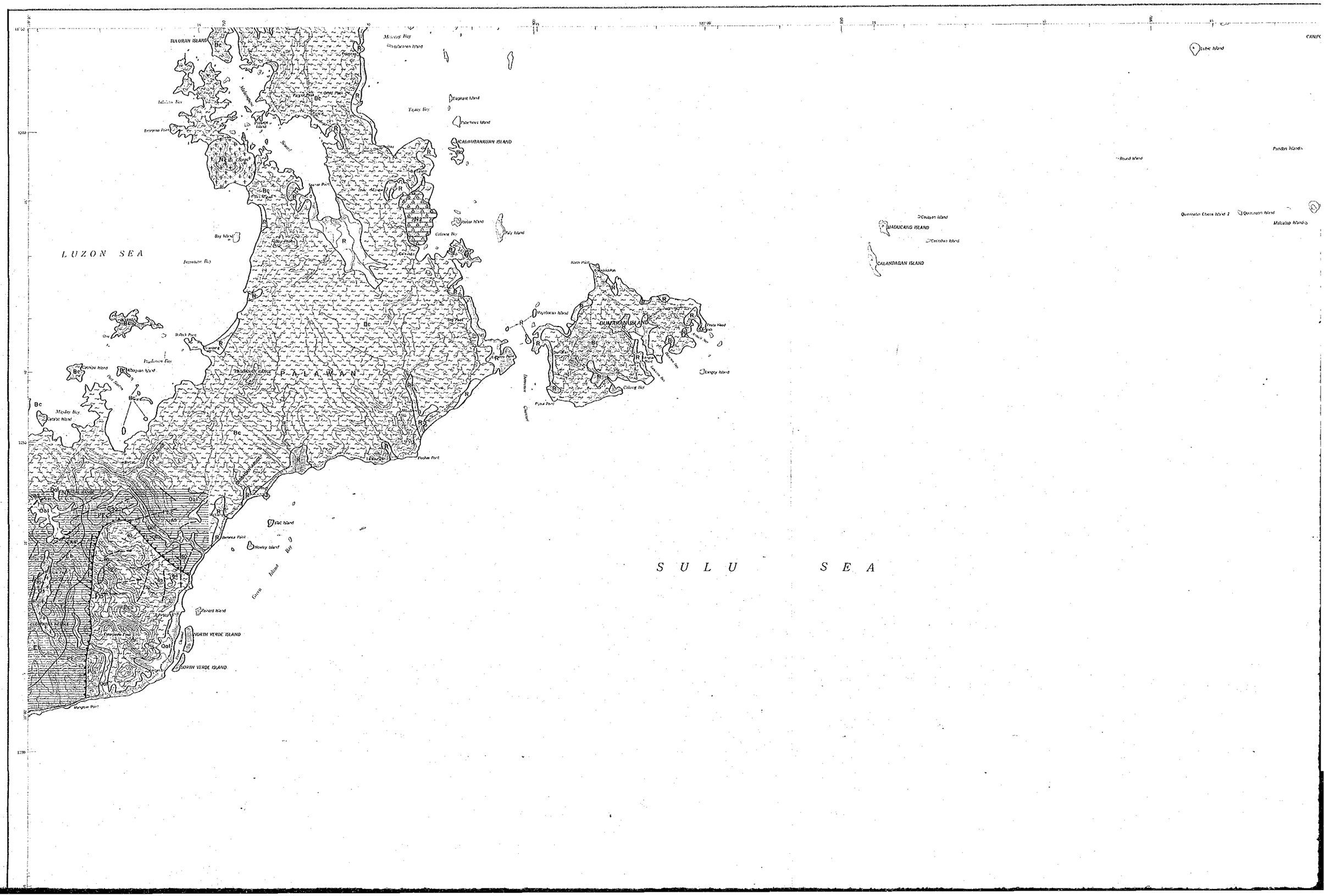
INTRUSIVE ROCKS

Recent — Ni — Quartz diorite, granodiorite and andesite porphyry

Precambrian — Ucu — Ultramafic and mafic igneous rocks, partially crushed and metamorphosed


LUZON SEA
SULU SEA
PALAWAN PASSAGE
Mindoro Strait
Ilocos Bay
Lingayen Gulf
Pangasinan Point
Bolinao Point
Bolinao Bay
Mauban Point
Long Point
Bahia Honda Point
Trocadero Bay
Mariquit Island
Hunnock Point
Malajoolon Island
Malaoao Bay
Ulugan Bay
Ulugan Point
Iwahig Bay
Iwahig Point
Puerto Princesa Bay
Puerto Princesa
Pandan Point
Malampaya Bay
Malampaya Point
Calauit Point
Calauit Island
Busuanga Island
Coron Bay
Coron Point
Marbel Bay
Marbel Point
Ebon Bay
Ebon Point
Scott Point
Hamodas Island
Manoda Island
Bassa Island
Bassa Bay
Mt. Ambolo
Mt. Bulod Mayong
Mt. Bulod Mayong
Mt. Bulod Mayong


LUZON SEA
SULU SEA
PALAWAN
PASSAGE
PUERTA PRINCESA
RASA ISLAND
Mt. Abokor
Mt. Bulabog
Mt. Kalatungan
Mt. Mantalingahan
Mt. Matutum
Mt. Pulog
Mt. Redondo
Mt. Tabayon
Mt. Tamalan
Mt. Tenglong
Mt. Tiniguiban
Mt. Tumbaga
Mt. Victoria
Mt. Vulcan
Mt. Zuelo
Mt. Zuelo Range
Mt. Zuelo Range
Mt. Zuelo Range


LUZON SEA
SULU SEA
PALAWAN
TULURAN ISLAND
CAGAUBANAUAN ISLAND
DUMARAN ISLAND
MADUCANG ISLAND
CALANDAGAN ISLAND
NORTH VERDE ISLAND
Cubic Island
Round Island
Pandan Islands
Malcatop Islands
Quinnalon Cocos Island 1
Quinnalon Island
Flat Island
Hawley Island
Richard Island
Mangrove Point
Pinak Point
Tagbay Island
Tagbaan Island
Mapday Bay
Cartalot Island
Bay Island
Tagbay Bay
Coloong Bay
Dumaran Island
Dumaran Bay
Gorrin Island
Gorrin Bay
Clustered Reef

付図 4 −10

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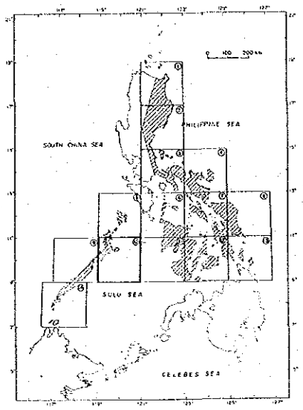
図書資料室蔵書



昭和60年 6 月 (第 1 版)
国際協力事業団
金属鉱業事業団

Scale 1 : 250,000

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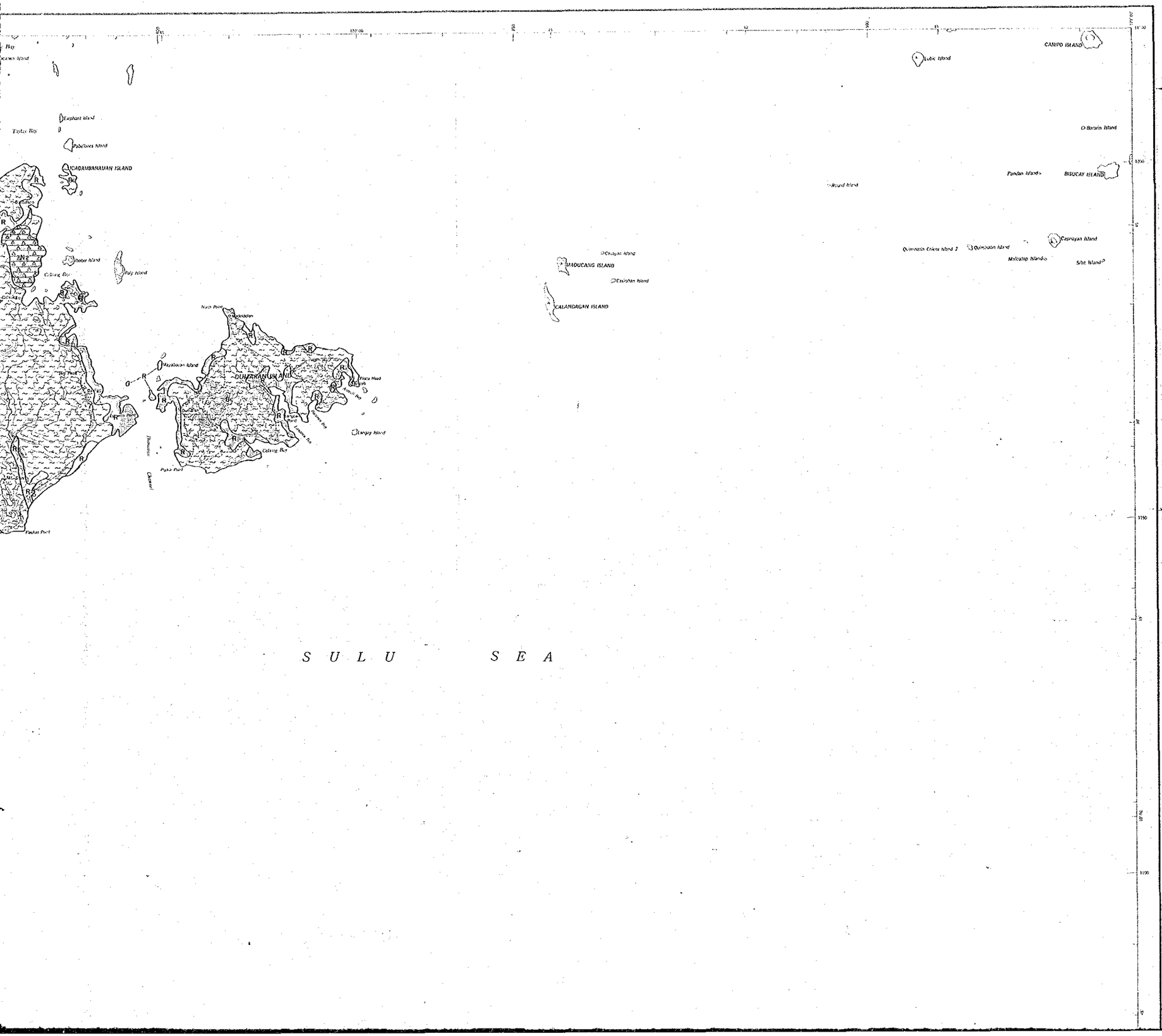
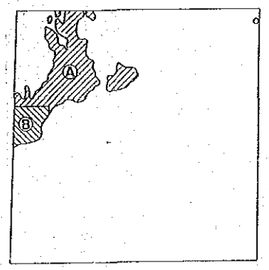


LEGEND



Ⓐ Compiles from Geology and Mineral Resources Map of Palawan Province (1:250,000)

Ⓑ Compiled from Geological Map Quadrangles (1:50,000) of 2749-I, II, 2750-I, II, III, 2850-III and IV by UNDP/BMG Project.

Ⓐ

STRATIFIED ROCKS

Recent — Alluvium and beach deposits

Coral reefs

Pliocene-Pleistocene — Marine and terrestrial sediments associated with volcanic rock, limestone and volcanic tertiary gravel deposits

Upper Miocene — Lacustrine, marine clastics and deltaic and/or volcanic flows, tuffaceous with associated limestone. Associated with salty Bonanza

Upper Middle Miocene — Conglomerate, wackes, shale and reef limestone, associated with basic to intermediate flows and pyroclastics.

Limestone

Paleocene-Eocene — Marine, tuffaceous, tuffaceous wackes and shale, associated with minor basalt conglomerate and limestone and tuffaceous, sometimes with basic to acidic volcanic flows and pyroclastics

Cretaceous-Paleogene — Unmetamorphosed graywackes and metamorphosed shale with cherts, basic flows and pyroclastics

Cretaceous — Enterolite, Philippinite, graywackes and shale, intercalated with cherts. Associated with tuffaceous cherts and limestone

Basement Complex — Undifferentiated schist and basement

INTRUSIVE ROCKS

Recent — Quartz diorite, granodiorite and andesite porphyry

Cretaceous-Paleogene — Ultramafic and mafic plutonic rocks, partially intruded

Ⓑ

LITHOLOGICAL UNITS

Quaternary — Q01 — Alluvium, Beach

Upper Miocene — Mmc — St. Paul Limestone

Upper Oligocene — Ou — Sinap Point Diorite

Upper Eocene — Ctb — Nashan Creek Conglomerate

Oligocene-Eocene — Ebc — Babuyan River Tuff-Breccia

Mesozoic-Paleozoic — Mzpz — Sagipa Point Tectonic Complex

Pzc — Concepcion Pelitic Phyllite

Pzs — Sofia Sea Area Monzonite

Pzt — Siltstone

Pzb — Pulaw Breccia

Pzgb — Sea Mozaic Gabbro

Pzgn — Uligan Bay Ultramafic Complex

Pzm — Metamorphic

NORTH VERDE ISLAND
Mangrove Point
Coral Island
Area Island
LEGEND
MANDAG
BATSINGGIS
MALOLOS
MAYAO
CENRDAS

Ⓐ

STRATIFIED ROCKS

Recent
- Alluvium and beach deposits
- Coral reef

Miocene-Pleistocene
- Marine and terrestrial sediments deposited with extensive reef limestone and volcanic tuffaceous detrital deposits

Upper Miocene
- Easily eroded clastics and pelitic marine sediments (shale, generally with gypsiferous), associated with tuffaceous

Lower Miocene
- Conglomerate, sandstone, shale and reef limestone, associated with beds of amphibolite flows and pyroclastics
- Limestone

Oligocene-Eocene
- Marine deposits, mainly sandstone and shale, resembling with some lahars, conglomerate, tuff breccias and pyroclastics, sandstone and marine shale, volcanic flows and pyroclastics

Cretaceous-Paleocene
- Metamorphosed sediments and metamorphosed shale with lahars, tuffs, flows and pyroclastics

Cretaceous
- Consolidated sediments (sandstone and shale, interbedded with agglomerate). Associated with reflectance charts and limestone

Jurassic-Cretaceous
- Undifferentiated schist and metabasite

INTRUSIVE ROCKS

Age unknown
- Quartz diorite, granodiorite and andesite porphyry

Cretaceous-Paleocene
- Ultramafic and mafic plutonic rocks, generally fractured or sheared.

GEOLOGIC SYMBOLS

- Stratigraphic contact
- High angle fault (hatched where approximately indicated, arrows show relative movement)
- Thrust fault (hatched where approximately indicated, sawteeth on overlying side)
- Anticlinal axis with plunge
- Synclinal axis with plunge

Compiled from geology and mineral resources map of Ryukyu Archipelago (1:250,000)

Ⓑ

LITHOLOGICAL UNITS

Quaternary
- Qal — Alluvium, Beach

Upper Miocene
- Sr Pa Ls — Sri Pasha Limestone

Upper Miocene
- Sg Ms — Shuga Mura Group

Upper Eocene
- Cs — Tsunaki Cross Conglomerate

Middle Eocene
- Ks — Kishaku Sandstone

Miocene-Miocene
- Ssp — Sasaya Fujiwara Tectonic Complex

- Ccp — Chinagusku Pedlay Phyllite
- Sm Ss — Shiki Mura Sandstone
- Ss — Sotsuna
- Pm Ss — Pinna Sandstone
- Sm Ms — Shi Mizuno Metabasite
- Sg Ub — Shuga Bay Ultramafic Complex
- Sm Gn — Metamorphism

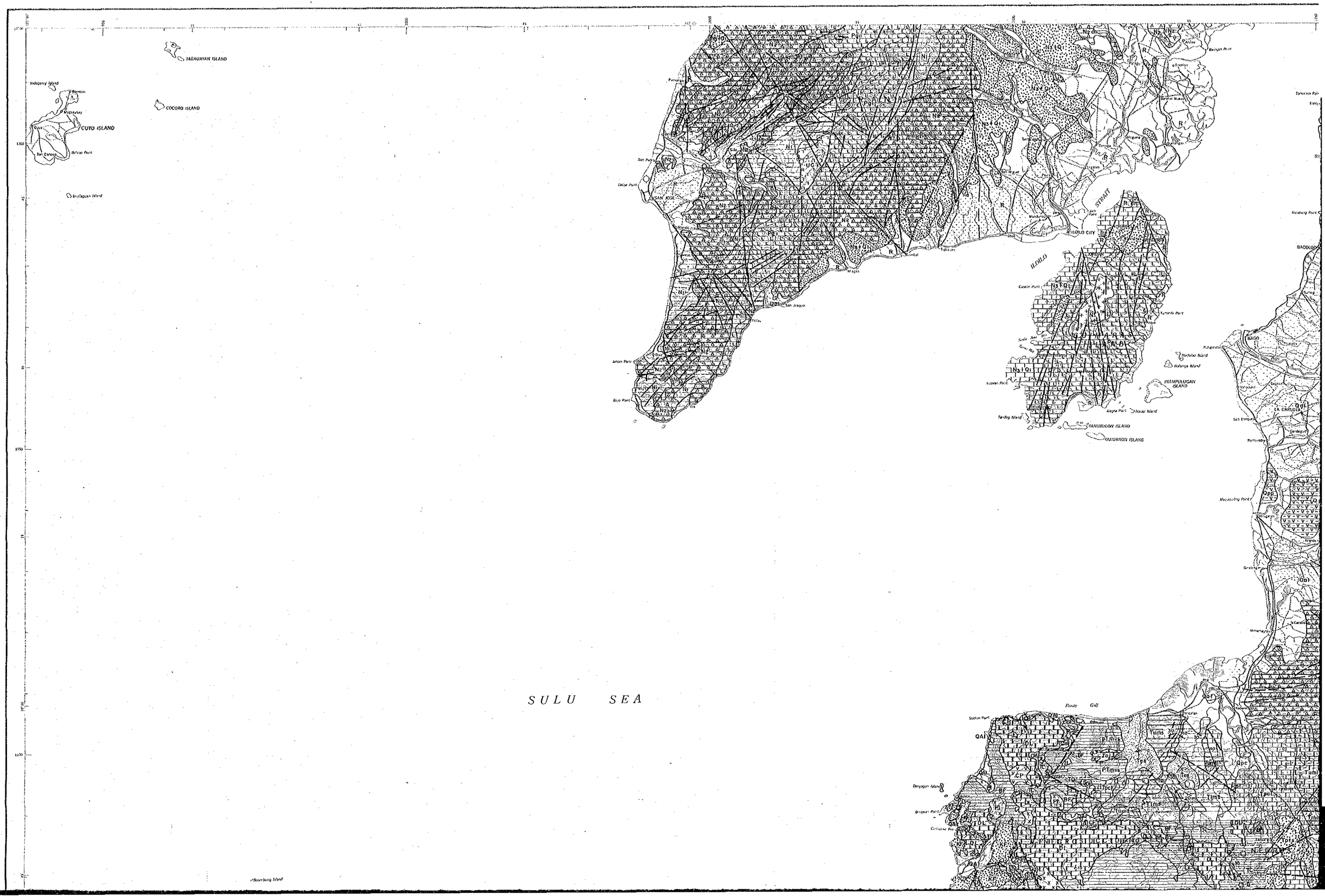
GEOLOGIC SYMBOLS

- Lithologic boundary
- Thrust
- High angle fault
- Bedding attitude
- Anticline
- Syncline

Compiled from Geological Map Okinawa 1:500,000 of 1969-2, 3, 1970-1, 2, 3, 1970-Sheet by UNDP/ECAFE Project.

Kanai Island

Ie Jima Island


TAGAUAYAN ISLAND
COCORO ISLAND
CUYO ISLAND
SULU SEA
ILOILO CITY
ILOILO STRAIT
BACOLOD
BAGO
LA CARLOTA
NAMPULUGAN ISLAND
PANUBULON ISLAND
GUIUANON ISLAND

付図 4 −11

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国際協力事業団
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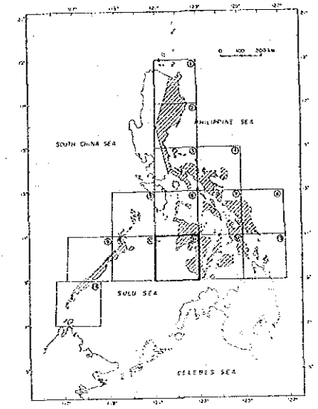
図書資料室蔵書



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国際協力事業団
金属鉱業事業団

Scale 1 : 250,000

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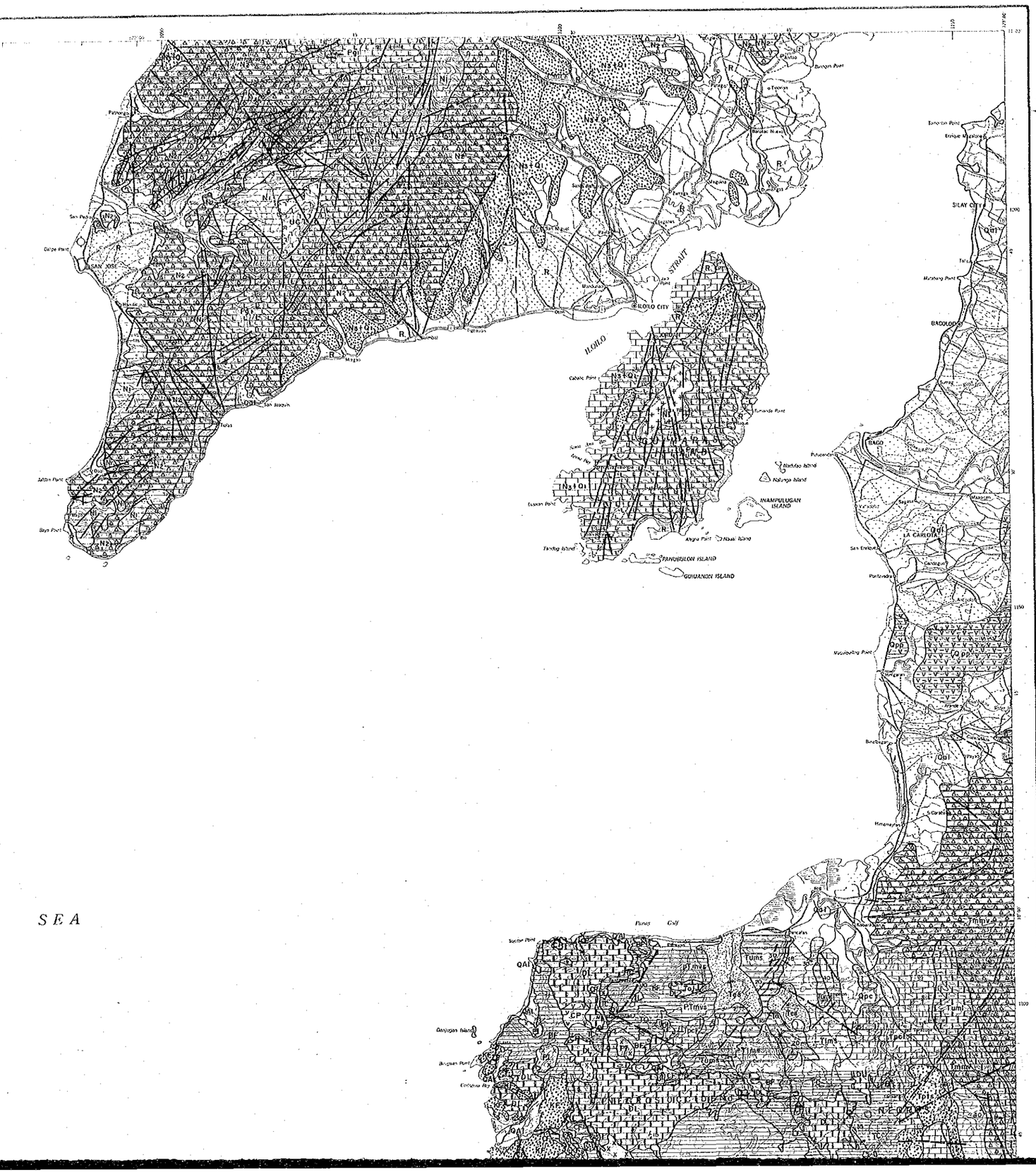

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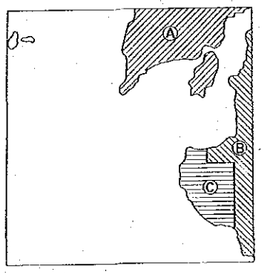

Ⓐ Compiled from Geology and Mineral Resources Map of Antique Province (1:250,000), Iloilo Province (1:250,000) and Aklan - Capiz Province (1:250,000) and Geologic Map of Southwestern Panay (1:250,000).

Ⓑ Compiled from Reconnaissance Geological Map of Negros Island 1:250,000.

Ⓒ Compiled from Geological Map Quadrangles(1:50,000) of No. 3448-I,II, 3449-I,II, 3548-III,IV, 3549-III.

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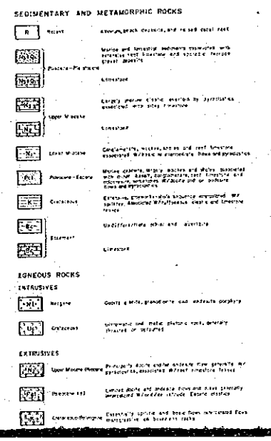

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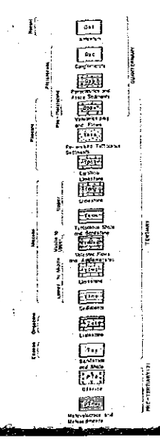

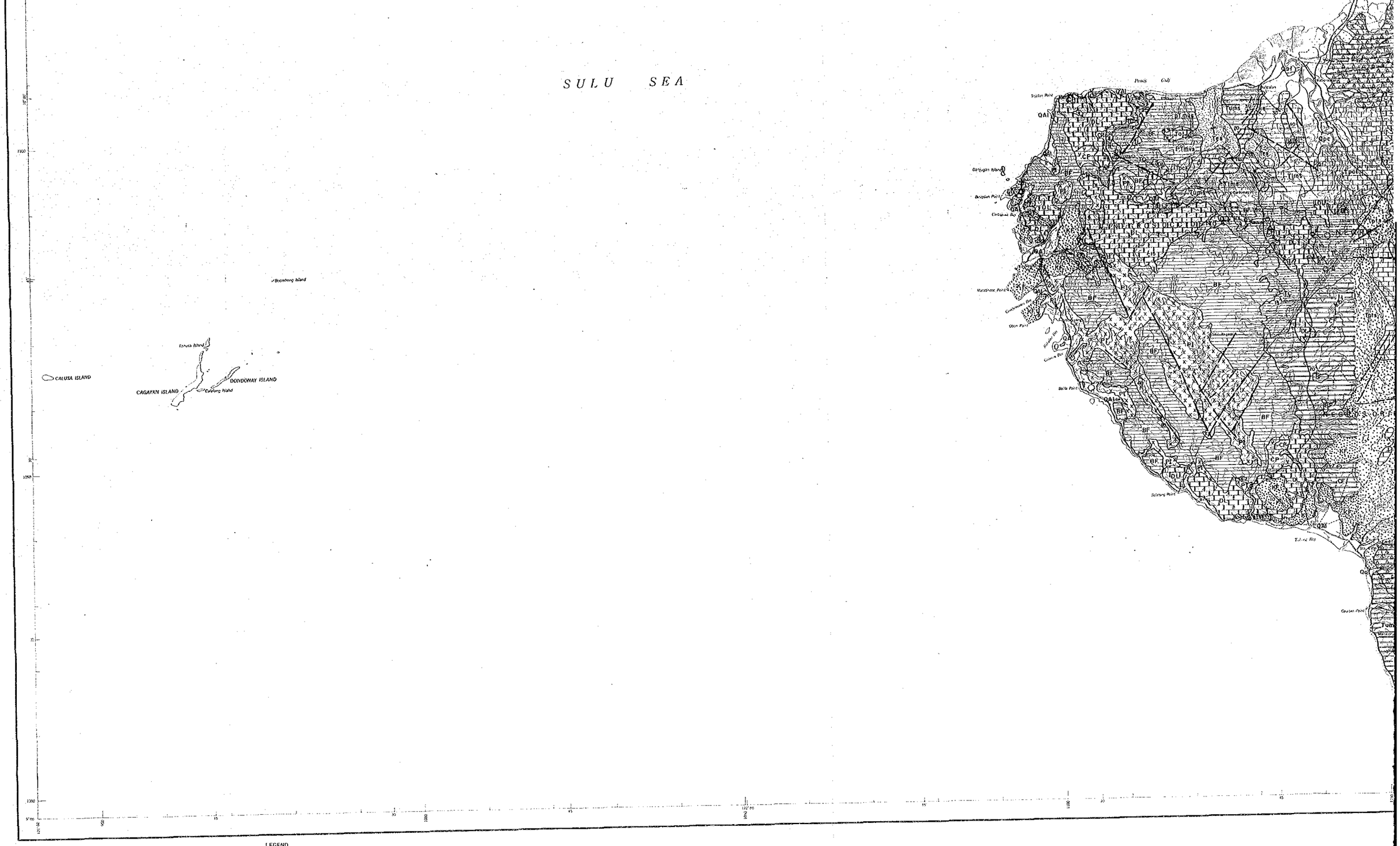
SULU SEA
CALUSA ISLAND
CAGAYAN ISLAND
DONDONAY ISLAND
Boomhong Island
Tanusa Island
Cadiong Island
Bolinao Point
Tuliao Bay
Quezon Point
Tuliao Point
Bolinao Point
Dilion Point
Marabacao Point
Cabiguan Island
Bongoan Point
Cangalwat Bay
Pangasinan
Ilocos Sur
Ilocos Norte
Tertiary
Quaternary
Pt
QAl
BF
CP
Tvms
Tvma
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Tvmam
Tvman
Tvmao
Tvmap
Tvmaq
Tvmar
Tvmas
Tvmat
Tvmau
Tvmav
Tvmaw
Tvmax
Tvmay
Tvmaz
Tvmba
Tvmbb
Tvmbc
Tvmbd
Tvmbe
Tvmbf
Tvmbg
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Tvmbk
Tvmbl
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Tvmbn
Tvmbo
Tvmbp
Tvmbq
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Tvmbs
Tvmbt
Tvmbu
Tvmbv
Tvmbw
Tvmbx
Tvmby
Tvmbz
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Tvmcc
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Tvmcg
Tvmch
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Tvmcj
Tvmck
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Tvmcq
Tvmcr
Tvmcs
Tvmct
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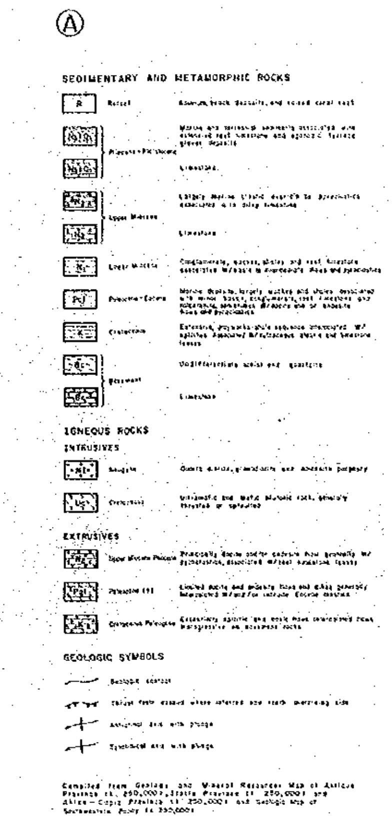
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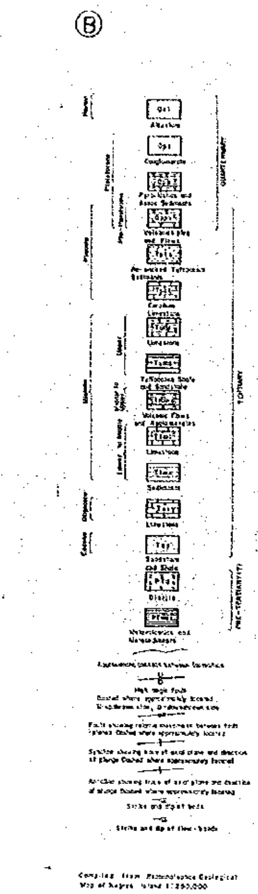
EXTRUSIVES
GEOLOGIC SYMBOLS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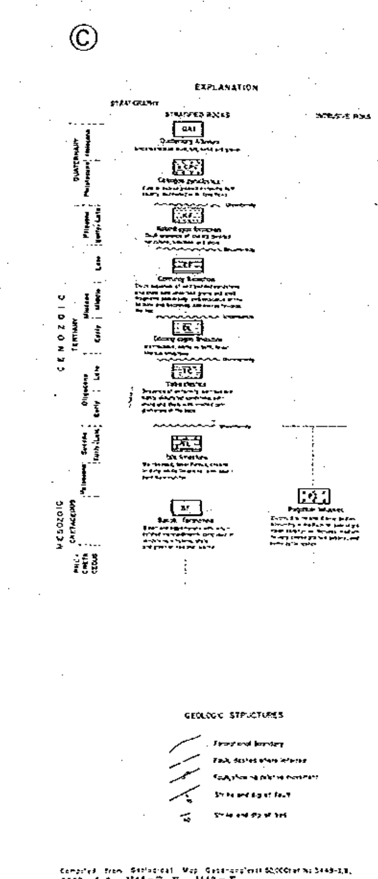
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EXPLANATION
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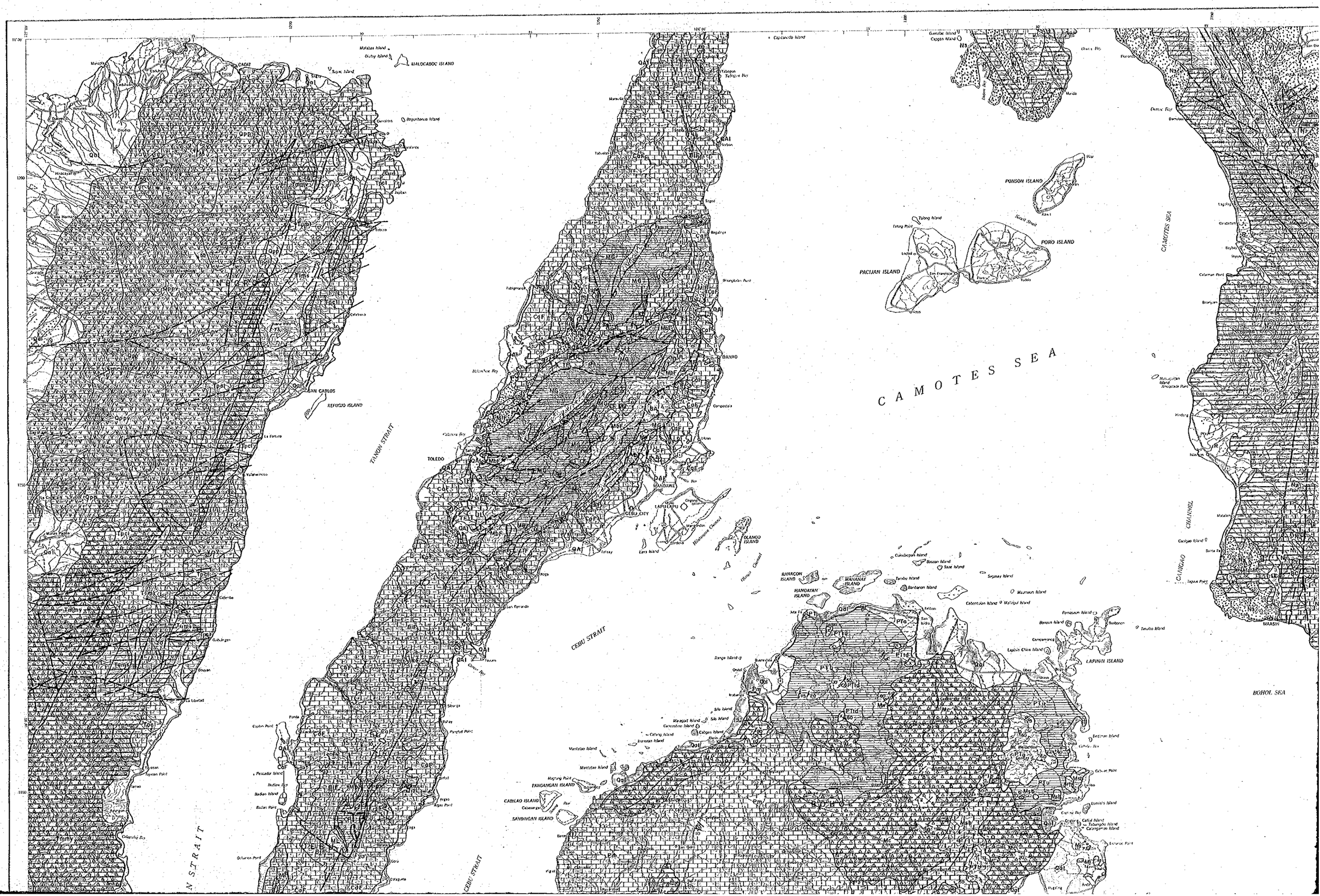
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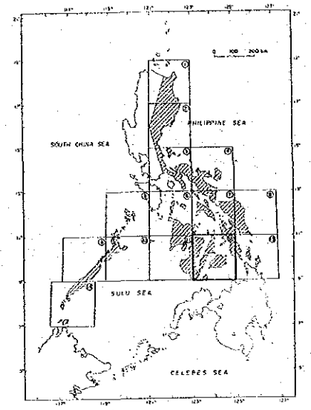
付図 4 − 12

フィリピン共和国
鉱物資源基本図調査

第 1 年次

編集地質図

国際協力事業団
15158
資料室



昭和60年 6 月（第 1 版）
国際協力事業団
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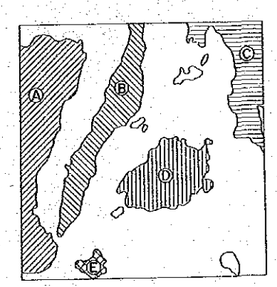
LEGEND



Ⓐ Compiled from Reconnaisance Geological Map of Negros Island 1: 250,000.

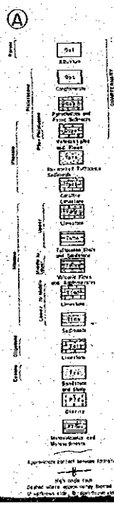
Ⓑ Compiled from Geological Map Quadrangles (1:50,000) of Sheet No. 3648-I, 3649-I,II, 3650-II,IV, 3750-II,IV, 3751-I,II,III, 3851-II,IV, 3852-III,IV and Geologic Map of Cebu (1: 250,000)

Ⓒ Compiled from Geology and mineral Distribution Map of Southern Leyte, 1:250,000. (P.M. Montoasing and Baptista, 1970)

Ⓓ Compiled from Geology and Mineral Resources Map of Bohol Province, 1: 250,000 by BMG Region VII, Jan. 1982

Ⓔ Compiled from Geologic and mineral Occurrences Map of Siquijor Island, 1:50,000 by BMG Region VII, Nov. 1984.

Ⓐ



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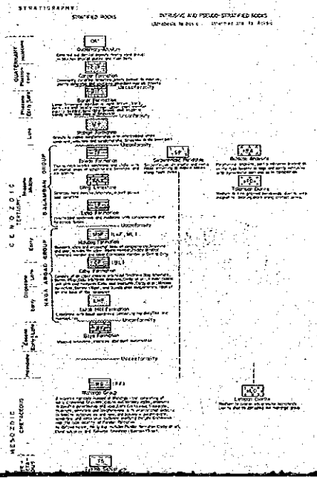
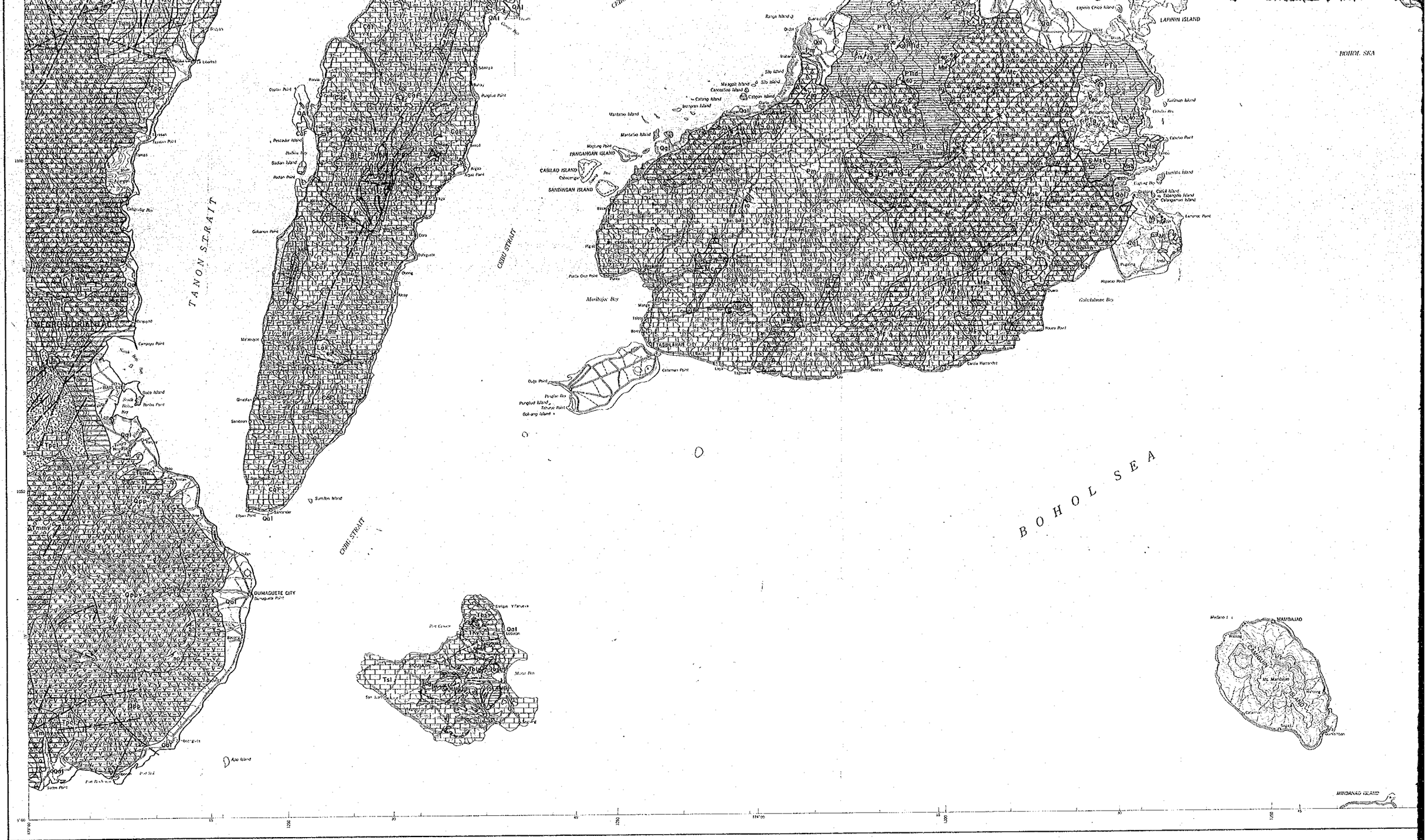
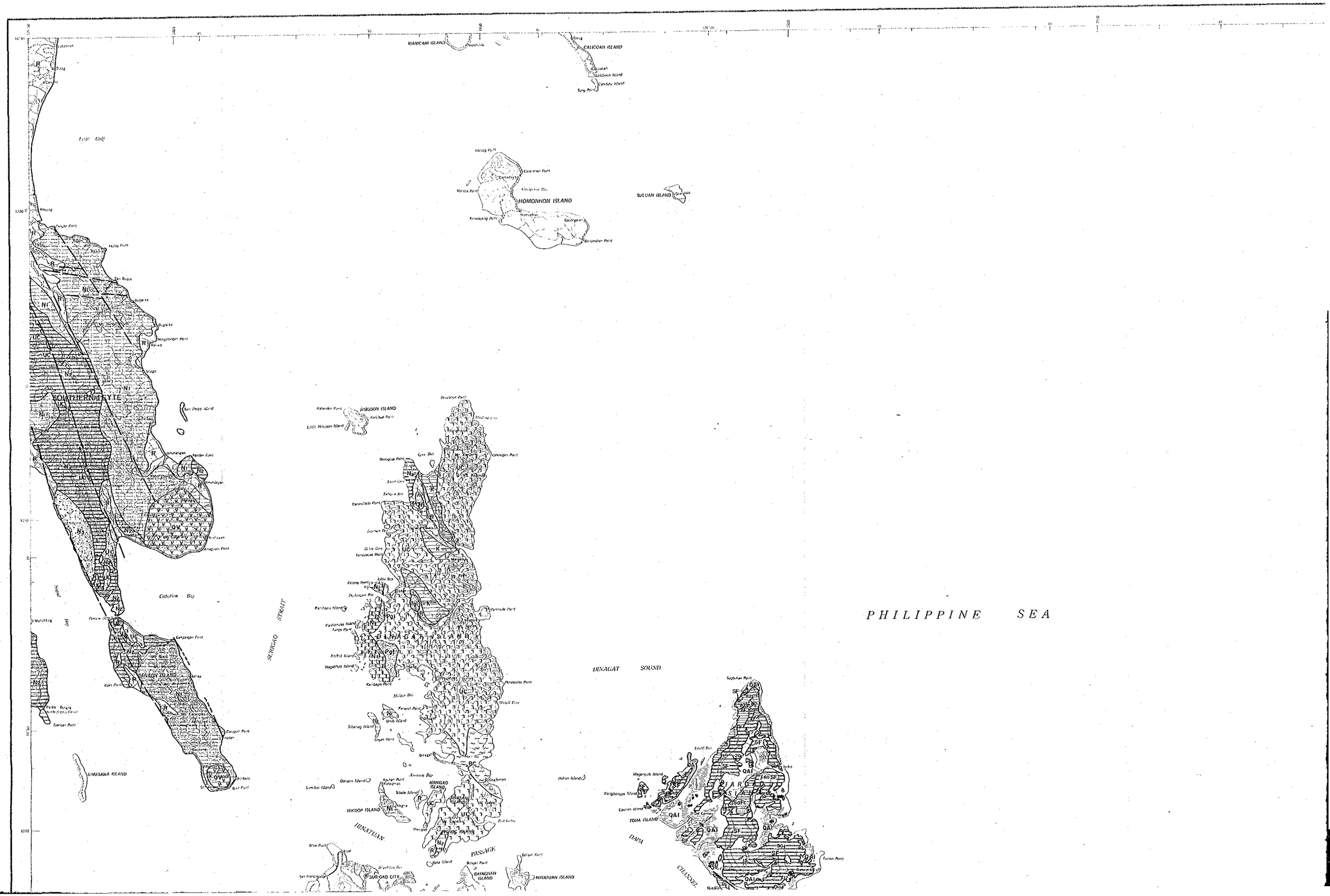




LEGEND

- Capital of Philippines — MANILA
- City over 50 000 — BAYANGAS
- Capital of province — MALOLOS
- Municipality or local town — Malay
- Barrio — Calaocao
- Surface paved (asphalt) — Magsaysay
- Surface paved (other) — Pinamalayan, Island, Pinamalayan
- Unpaved roadway — Lat. Gal. Mang
- Provincial boundary
- City boundary — Aqu. Gal. Mang
- Municipal boundary (Lake or sea boundary)
- Trail (dirt road)
- Trail (air strip only) — Emergency

BOHOL SEA
CEBU STRAIT
LAPININ ISLAND
PANGANGAN ISLAND
CABILAO ISLAND
SANDINGAN ISLAND
Mariblojo Bay
Guiofohanin Bay
Dalajo Point
Pungtod Island
Pungtod Point
Golang Island
Cabacan Point
Dumaco Point
Napacao Point
Nauco Point
Lapon Chico Island
Tabiniran Island
Lamanis Island
Cabilao Bay
Cabacungan Island
Cabacungan Point
Cabacungan Bay
Cabacungan Island
Cabacungan Point
Cabacungan Bay
Cabacungan Island
Cabacungan Point
Cabacungan


MANICANI ISLAND
CALICOAN ISLAND
HOMONHON ISLAND
SULUAN ISLAND
SOUTHERN LEYTE
Cabalian Bay
DINAGAT ISLAND
LIMASAWA ISLAND
SURIGAO STRAIT
HINATUAN
PASSAGE
HIKDOP ISLAND
HANIGAO ISLAND
BAYAGNAN ISLAND
HINATUAN ISLAND
SURIGAO CITY
HIBUSON ISLAND
DINAGAT SOUND
TOWA ISLAND
DAPA
CHANNEL
PHILIPPINE SEA

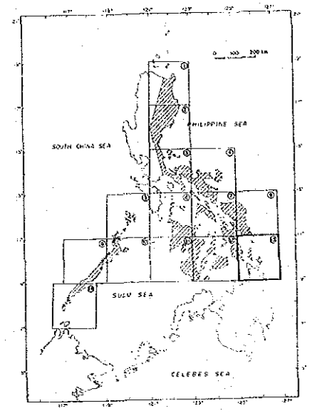
付図 4 −13

フィリピン共和国
鉱物資源基本図調査

第 1 年次

国際協力事業団
15158
図書資料室蔵書

編集地質



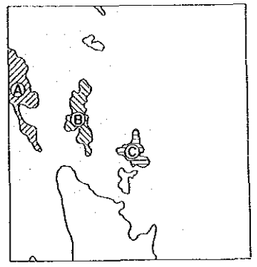
昭和60年 6 月（第 1 版）

国際協力事業団
金属鉱業事業団

Scale 1 : 250,000

0 10 20 km

LEGEND



Ⓐ Compiled from Geology and mineral Distribution Map of Southern Leyte, 1:250,000. (P.M. Montansing and Baptista, 1970)

Ⓑ Compiled from Geology and Mineral Resources Map of Surigao Del Norte, 1:250,000 by BMG Regional Office No. X, Sept. 1980 (RI No. 102)

Ⓒ Compiled from Geological Map Quadrangle (1:50,000) of Sheet No. 4149-I, 4249-II, V, 4250-III.

Ⓐ

R Alluvium, beach deposits and river terrace

Pleistocene Marine and terrestrial sediments and coralline limestone, gravel deposits

Upper Miocene Largely marine clastics overlain by pelagic limestone, capped with reef limestone

Limestone

Lower-Middle Miocene Conglomerate, volcanic clastics and reef limestone associated with some marine clastics and pelagic limestone

Limestone

Pliocene Epoch Marine deposits, largely shales and shale interspersed with rudist bank conglomerate, reef limestone and mudstone, sandstone with marine shale, coralline limestone, tuff and conglomerate

Eocene Epoch Conglomerate, sandstone and shale

Lower-Middle Miocene Lower Miocene and Middle Miocene volcanic clastics, generally altered or silicified

Lower Miocene Mainly volcanic clastics and basic flows, albeit associated with sediments

Contact

Fault

Syncline

Anticline

Ⓑ

SEDIMENTARY AND METAMORPHIC ROCKS

R Recent Alluvium, beach deposits and river terrace

Pleistocene Marine and terrestrial sediments and coralline limestone, gravel deposits

Upper Miocene Largely marine clastics overlain by pelagic limestone, capped with reef limestone

Limestone

Lower-Middle Miocene Conglomerate, volcanic clastics and reef limestone associated with some marine clastics and pelagic limestone

Limestone

Pliocene Epoch Marine deposits, largely shales and shale interspersed with rudist bank conglomerate, reef limestone and mudstone, sandstone with marine shale, coralline limestone, tuff and conglomerate

Eocene Epoch Conglomerate, sandstone and shale

IGNEOUS ROCKS

INTRUSIVES

Quaternary Pleistocene Ultramafic and mafic plutonic rocks, generally altered or silicified

EXTRUSIVES

Quaternary Pleistocene Mafic lava flows generally of basaltic composition

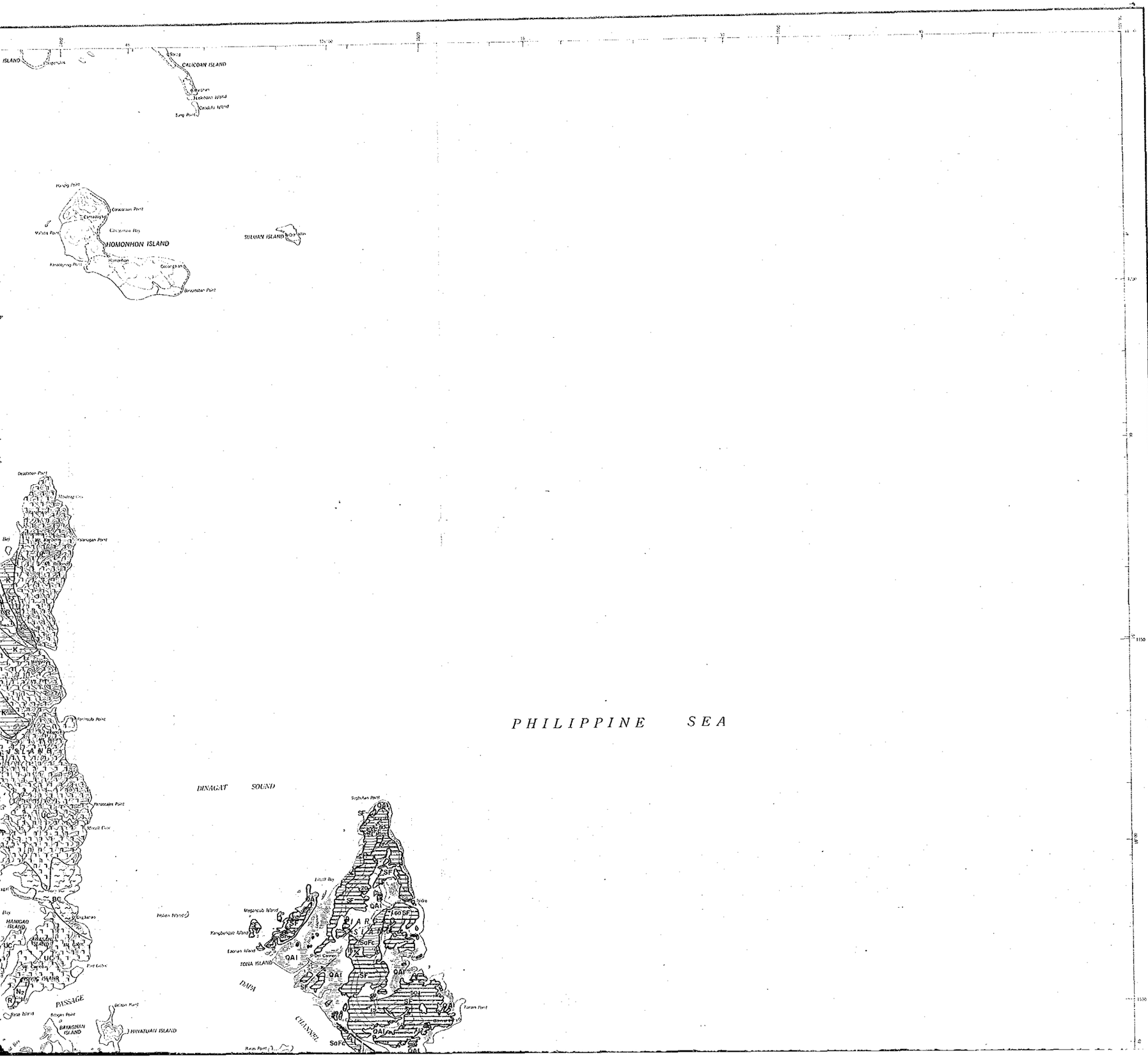
Quaternary Pleistocene Essentially mafic and basic flows albeit associated with sediments

GEOLOGIC SYMBOLS

High angle fault displaced angle inferred

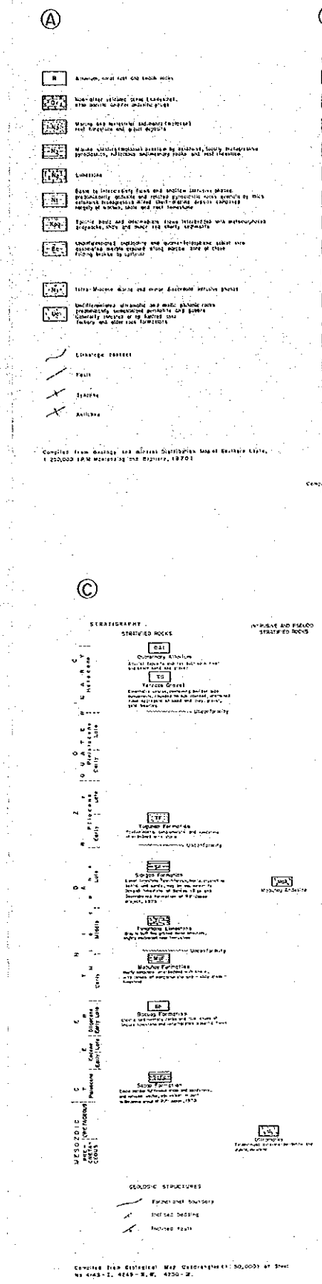
Normal fault displaced block inferred, displaced in downthrown side

Thrust fault displaced block inferred, displaced in downthrown side



DINAGAT SOUND
SURIGAO
HINATUAN PASSAGE
HINATUAN
DAPA CHANNEL
PASSAGE
BOHOL SEA
LIMASAWA ISLAND
HIKDOP ISLAND
HANKUAO ISLAND
ANAGAO ISLAND
DINAGAT ISLAND
SURIGAO CITY
BAYAGNAN ISLAND
HINATUAN ISLAND
MASAPELIO ISLAND
LONA ISLAND
MIDDLE BUCAS ISLAND
East Bucas Island
BUCAS GRANDE ISLAND
GENERAL ISLAND
LAKE MAINIT
Mt. Kitobon
Mt. Mahuta
Mt. Kiangwang
MINDANAO ISLAND
TANDAG
Bucas Island
Lajanosa Island
Manoan Island
Anakan Island
Hagonoy Island
Kanghanga Island
Lasan Island
Hikan Island
Sibale Island
Sanitan Island
Dinagat Island
Sibang Island
Bucas Point
Bucas Point
Cabgan Point
Tandag Point
Cortes
Lanocot Bay
Bahuan Bay
Mapanas
Bucas Point
Dapa Point
Gawan Point
Mapanas
Tandag
Cortes
Lanocot Bay
Bahuan Bay
Mt. Kiangwang
Mt. Mahuta
Mt. Kitobon
Mt. Tapon
Mt. Kiangwang
Mt. Mahuta
Mt. Kitobon
Mt. Tapon
Mt. Kitobon
Mt. Mahuta

DINAGAT SOUND
HANIGAO ISLAND
PASSAGE
BAYAGNAN ISLAND
HINATUAN ISLAND
MASAFELIO ISLAND
HINATUAN
TONA ISLAND
DAPA
CHANNEL
MIDDLE BUCAS ISLAND
BUCAS GRANDE ISLAND
PASSAGE
GENERAL ISLAND
MINDANAO ISLAND
TANDAG
QAI
SF
Sufc


A
B
SEDIMENTARY AND METAMORPHIC ROCKS
IGNEOUS ROCKS
INTRUSIVES
EXTRUSIVES
GEOLOGIC SYMBOLS
Compiled from Geology and Mineral Resources Map of Surigao Del Norte, 1:250,000 by BMG Regional Office No. 2, Sub-Project No.1022

C
STRATIGRAPHY
STRUCTURE
GEOLOGIC STRUCTURES
Compiled from Geological Map (Quadrangle) 1:50,000 of Sheet No 4965-I, 4965-II, 4966-III.