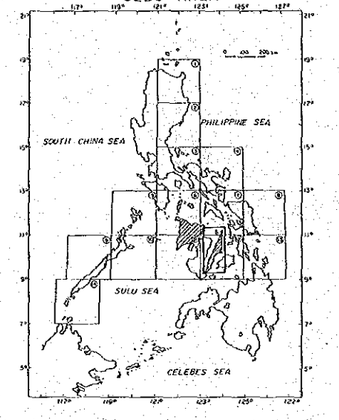
Figure 3, Data sheet for Mineral Prospects (II)

Age Determination			K- Ar Methode						Other Methode				
Investigation of Fossils			Radioraria			Nanno-Plankton				Other Fossils			
Evaluation for Ore Prospects	Spot Investigation	A	Necessity of follow up survey is highest	B	Necessity of follow up survey is high	C	Possibility of follow up survey is reliable	(D)	Necessity of follow up survey is low	E	Follow up survey is needless		
	Results of Geochemical & other analysis	A	"	B	"	C	"	D	"	E	"		
	Summerized Evaluation	A	"	B	"	C	"	D	"	E	"		
Other specially Mentions	The pyrite dissemination, argillized and silicified alterations continues along the stream about 400 m long as show to the route map. However copper mineralization are observed only at one outcrop with the naked eye. Copper mineralization is not strong, it differ from BMG Report (No.RB-1325).												

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

GEOLOGICAL MAP AND SECTION

CEBU AREA



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Feb. 1987

Scale 1 : 250,000

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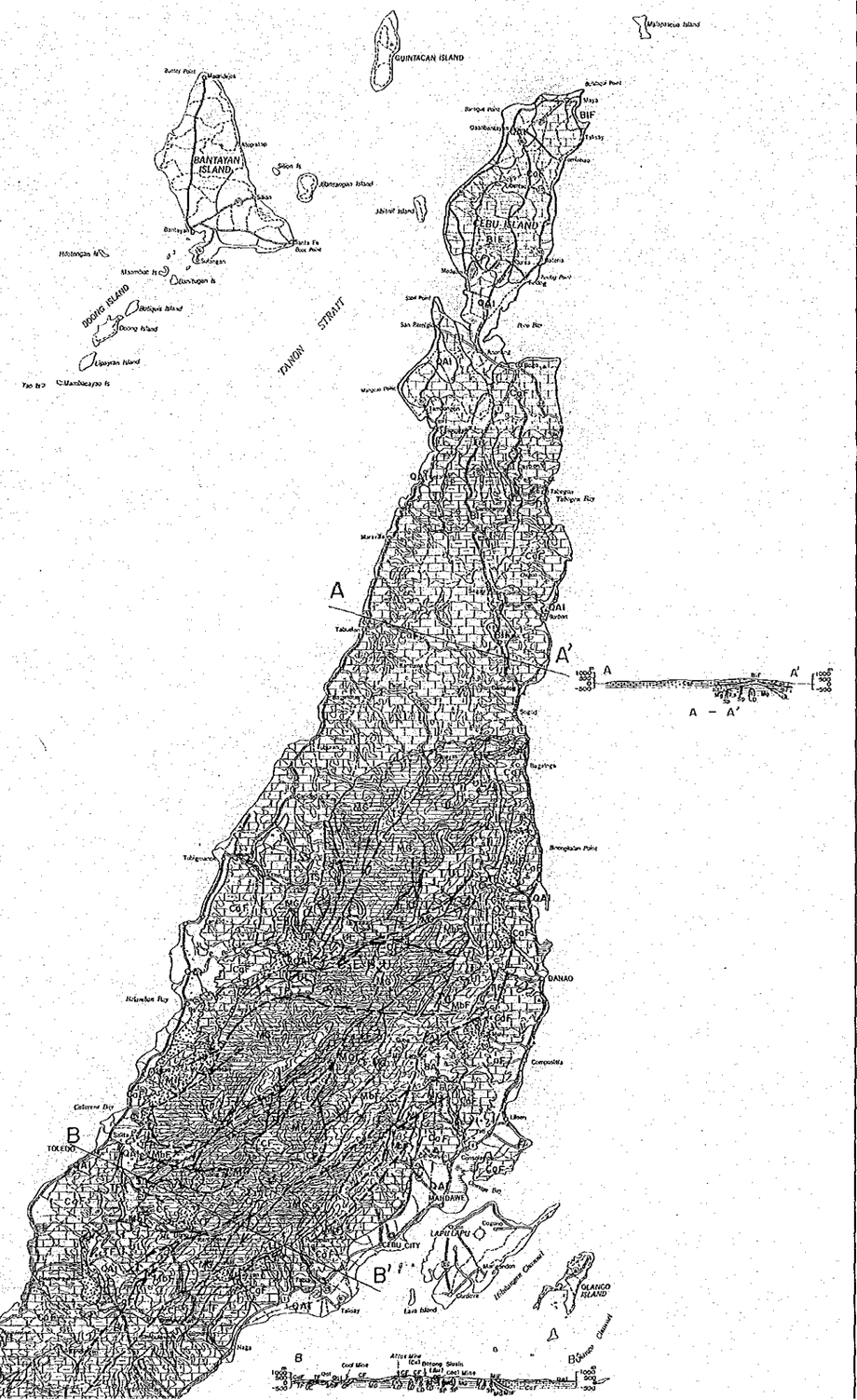
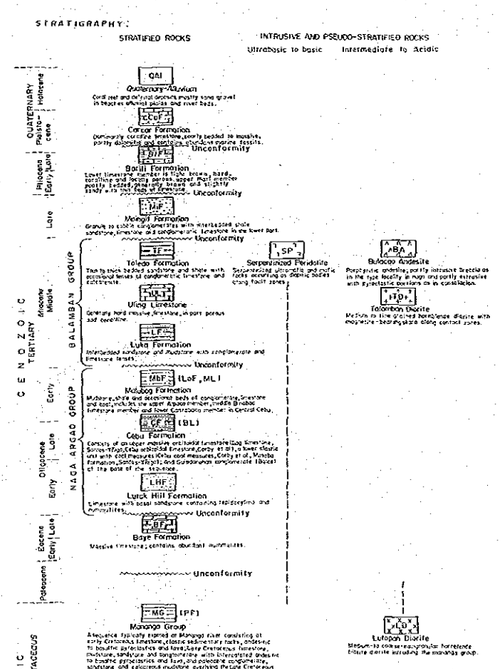
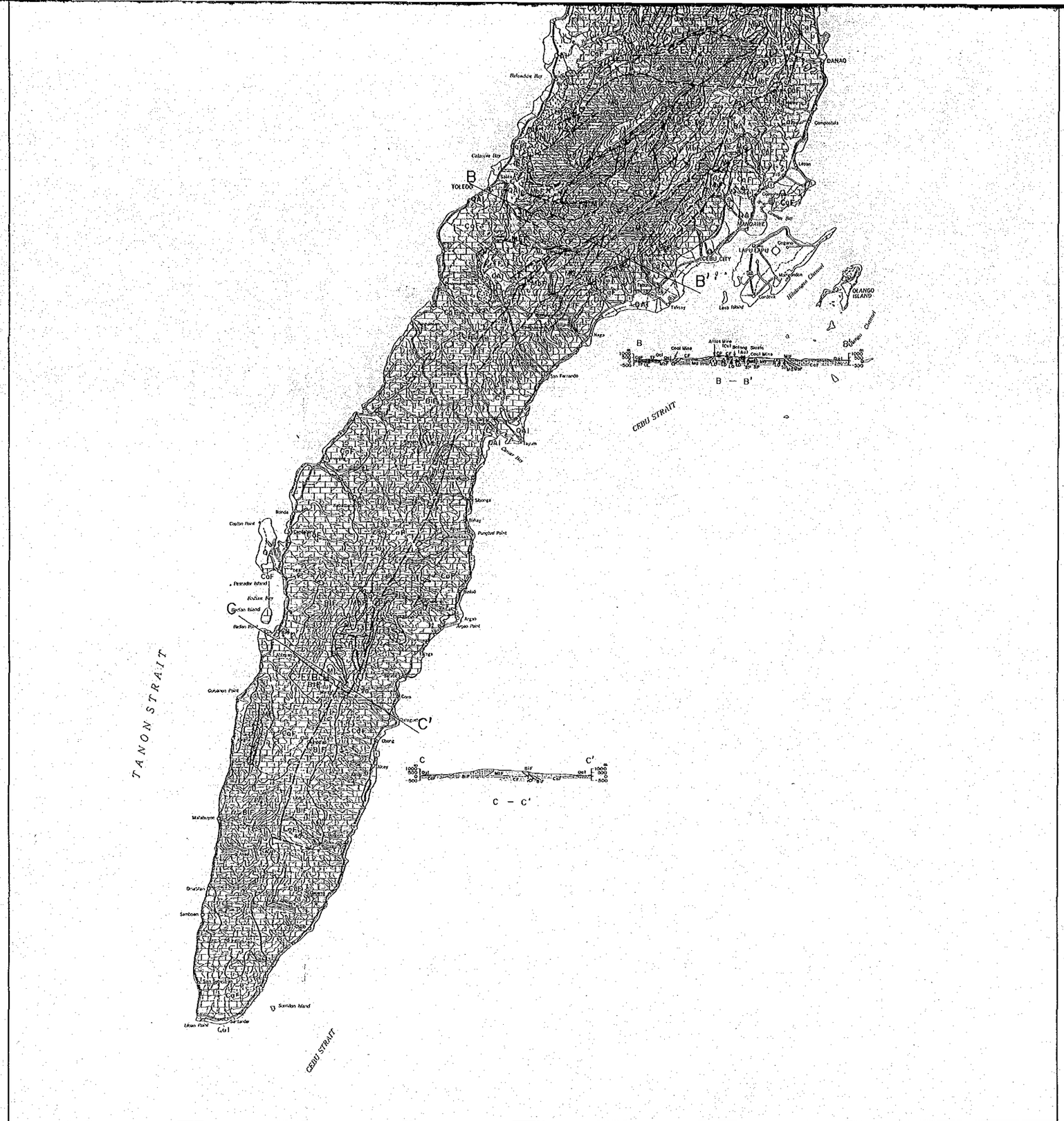


LEGEND

STRATIGRAPHY:





Upper limestone member massive, generally coralline and locally porous; upper marl member poorly bedded, generally brown and slightly sandy with thin beds of limestone. Unconformity

MiF

Maingit Formation

Granule to cobble conglomerates with interbedded shale sandstone, limestone and conglomeratic limestone in the lower part

Unconformity

BALAMBAN GROUP

TF

Toledo Formation

Thin to thick bedded sandstone and shale with occasional lenses of conglomeratic limestone and calcarenite.

UL

Uling Limestone

Generally hard massive limestone, in part porous and coralline

LF

Luka Formation

Interbedded sandstone and mudstone with conglomerate and limestone lenses.

Unconformity

NAGA ARGAO GROUP

MbF (LoF, ML)

Malubog Formation

Mudstone, shale and occasional beds of conglomerate, limestone and coal, includes the upper Alpaco member, middle Bitabac limestone member and lower Cantabaco member in Central Cebu.

CF (BL)

Cebu Formation

Consists of an upper massive orbitoidal limestone (Bay limestone, Santos-Ynigo; Cebu orbitoidal limestone, Corby et al); a lower clastic unit with coal measures (Cebu coal measures, Corby et al; Masaba formation, Santos-Ynigo); and Guindaruhan conglomerate (Basal) at the base of the sequence.

LHF

Lutak Hill Formation

Limestone with basal sandstone containing lepidocyclina and nummulites.

Unconformity

BF

Baye Formation

Massive limestone, contains abundant nummulites

Unconformity

SP

Serpentinized Peridotite

Serpentinized ultramafic and mafic rocks occurring as diapiric bodies along fault zones.

BA

Bulacao Andesite

Porphyritic andesite, partly intrusive breccia as in the type locality in Naga and partly extrusive with pyroclastic portions as in Consolacion.

TD

Talamban Diorite

Medium to fine grained hornblende diorite with magnetite-bearing skarn along contact zones

MG (PF)

Managa Group

A sequence typically exposed at Managa river consisting of early Cretaceous limestone, clastic sedimentary rocks, andesitic to basaltic pyroclastics and lava; Late Cretaceous limestone, mudstone, sandstone and conglomerate with intercalated andesitic to basaltic pyroclastics and lava; and paleocene conglomerate, sandstone and calcareous mudstone overlying the Late Cretaceous near the type locality of Pandan formation.

as defined herein, the group includes Pandan formation (Corby et al), Cansi volcanics and Tuburan limestone (Santos-Ynigo).

LD

Lutopan Diorite

Medium to coarse equigranular hornblende biotite diorite intruding the managa group.

TS

Tunlob Schist

Chlorite orthoschist and micaceous paraschist of the albite-epidote-amphibolite facies.

CENOZOIC	TERTIARY	Plio	Early
		Miocene	Late
			Middle
			Early
		Oligocene	Late
			Early
		Eocene	Late
			Early
		Paleocene	
MESOZOIC	CRETACEOUS		
PRE-CRETACEOUS			

GEOLOGIC STRUCTURES

Formational boundary

Fault

Syncline

Anticline

Inclined fault

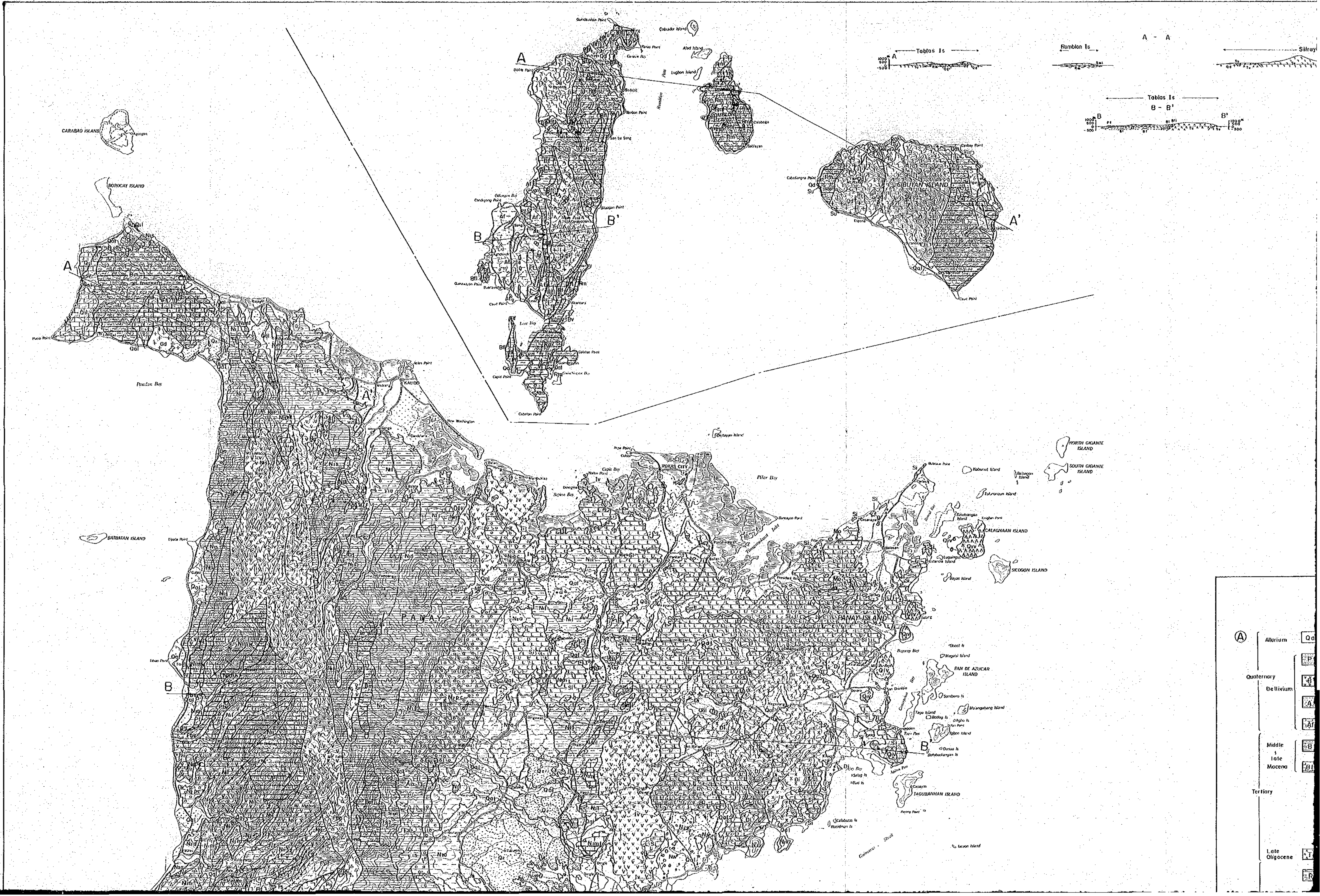
Inclined bedding

Overturned bedding

Inclined layering

Inclined shear

Compiled from Geological Map Quadrangles (1:50,000) of Sheet No. 3648-I, 3649-I, II, 3650-I, II, 3750-III, IV, 3751-I, II, III, 3851-III, IV, 3852-III, IV and Geologic Map of Cebu (1:250,000)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BORACAY ISLAND
BATBATAN ISLAND
SIBUYAN ISLAND
ROMBLON ISLAND
ROXAS CITY
KALIBO
New Washington
PANAY
PANAY ISLAND
Pilar Bay
Sapian Bay
Pandan Bay
NORTH GIGANTE ISLAND
SOUTH GIGANTE ISLAND
CALAGNAAN ISLAND
SICOGON ISLAND
PAN DE AZUCAR ISLAND
TAGUBANHAN ISLAND
Guimaras Strait
A
A'
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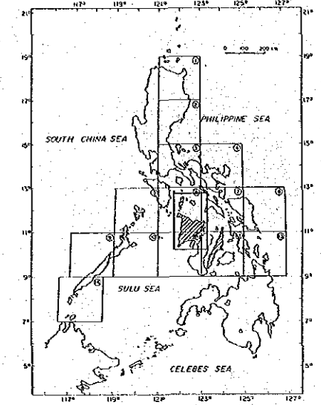
R

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

GEOLOGICAL MAP AND SECTION

PANAY AND ROMBLON AREA



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Feb. 1987

Scale 1 : 250,000

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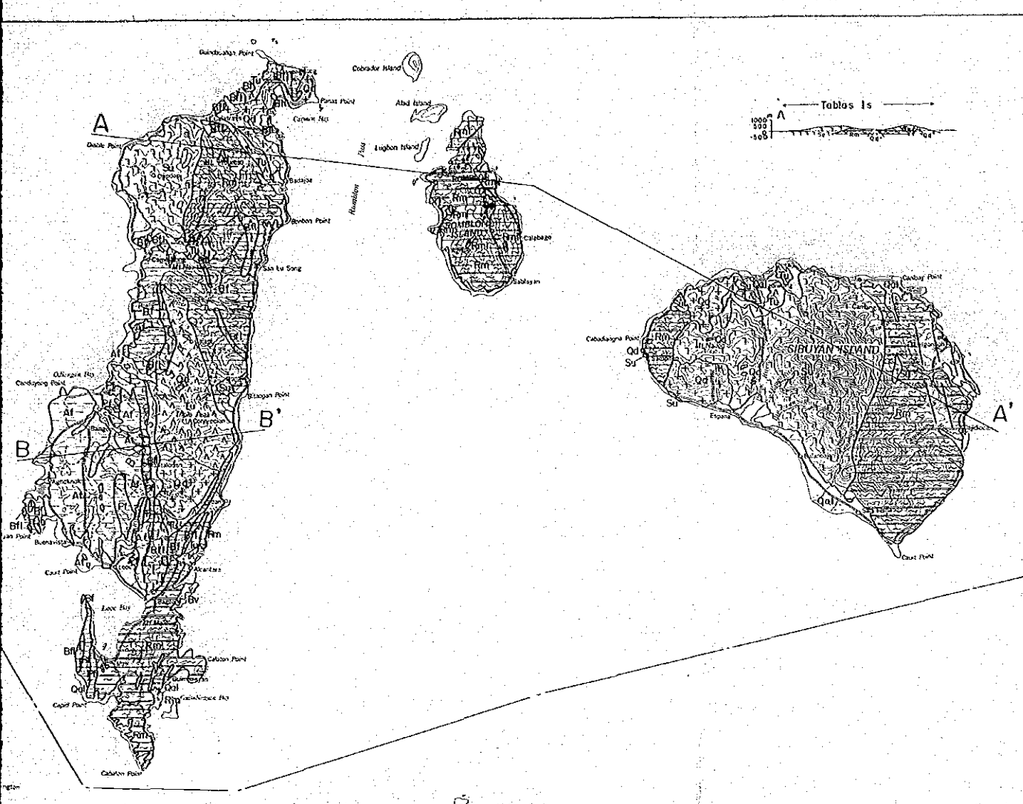

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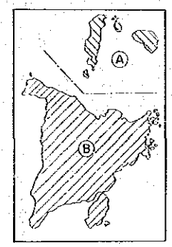
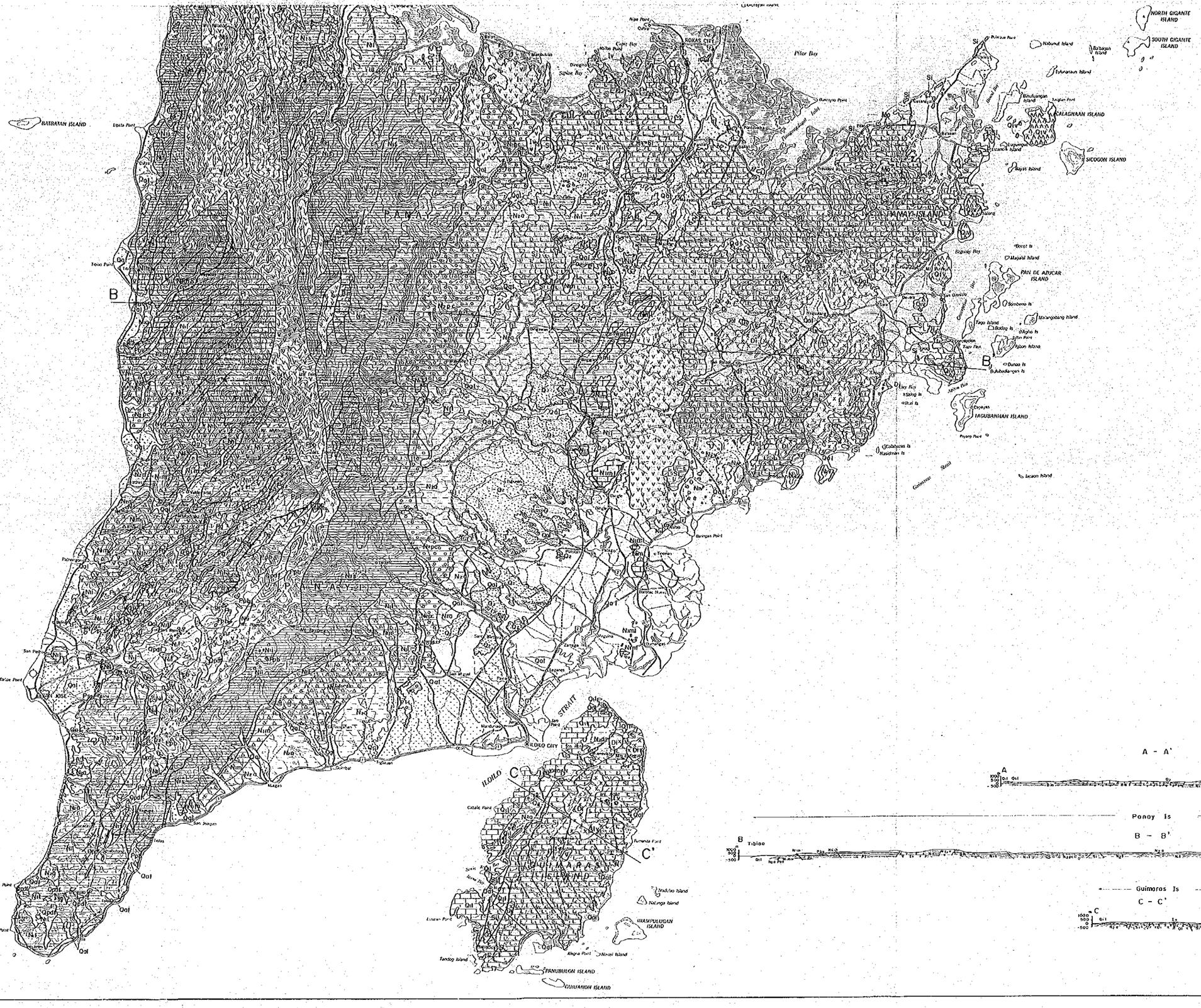


(A)

Content		Formation Name
Alluvium	Qal Rock Facies Sand Gravel	
Quaternary Delluvium	Pl Conglomeratic Limestone Sandy Shale, Shale	PELI Formation
	Bv Andesite Flow & Breccia	Banton Volcanics
	At Tuffaceous Sandstone, Mudstone	Anahao Formation
	Atl Limestone	
Middle ~ late Miocene	Bl Calcareous Sandstone	Binaog Formation
	Blc Limestone	
Tertiary	dg Quartzdiorite	
Late Oligocene	Tv Andesite, Basalt Flow & Buccia, Tablas Volcanics	
	Rm Schist	Romblon Complex

(B)

	Contents	Formation Name	Contents	Rock Name
Holocene	Qal Soil, Gravel Sand Coral Reef			
Quaternary Delluvium	Qz Sandstone Siltstone Mudstone	Cabatuan Fm (Santa Cruz Fm)		
	Qll Limestone	Guimaras Fm Santa Cruz Fm	Qlv Andesite Odiongan Volcanics	
Pliocene	N2al Limestone	Ulian Limestone		
	N2o Morit Mudstone Wacke	Apdo Fm (Ulian Fm)		
	N2pc Conglomerate	Panlupon Conglomerate (Iday Fm)		
Tertiary	N1mp Calcarenites Basalt Flow & Breccia	Mayos Fm (Makato Fm)	N1mL Limestone Makato Fm	
	N1t Siltstone, Mudstone, Tuff, Wacke, Minor Conglomerate	Lagdo Fm (Toledo Fm)		
Miocene	N1mW Turbidite Wacke, Andesite, Flow, Minor Siltstone,	Matiao Wackes	Gd Granodiorite Pacol Diorite	
	N1Iv Andesite Flow & Breccia, Tuff, Wacke, Conglomerate	Igupoco Volcanics, Basalt Flow & Breccia Igsawa Pyroclastics	Antique Ophiolites Ppl Pillow Lavas	Pdd Diabase Dyke Complex
	N1s Mudstone, Wacke, Conglomerate Minor Basalt & Andesite Flow	Sewaragan Fm (Libacao Fm) Singit Fm	Ppg Massive Gabbro	Ps Serpentinite & Serpentinized Harzburgite
Oligocene	Pbv Pillow & Breccia Basalt, Minor Tusbidite & Conglomerate	Basalt Flow & Breccia Tuff Mt. Baloy Volcanics	Ponpon Basalt	


BATBATAN ISLAND
PANAY
GUIMARAS ISLAND
NORTH GIGANTE ISLAND
SOUTH GIGANTE ISLAND
CALAGNAAN ISLAND
SICOGON ISLAND
PAN DE AZUCAR ISLAND
TAGUBANHAN ISLAND
ILOILO CITY
ILOILO STRAIT
GUIMARAS STRAIT
PANUBULGON ISLAND
GUIJANON ISLAND
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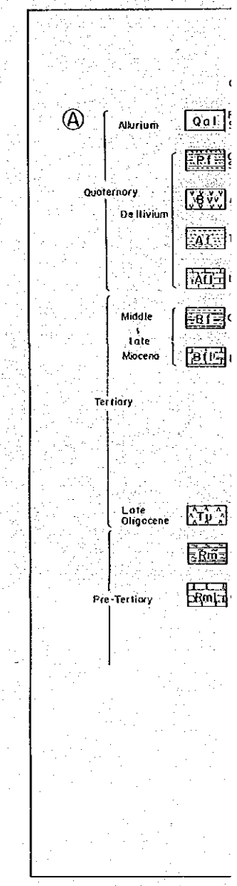
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Alluvium
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to
Late
Miocene
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Tertiary
Late
Oligocene
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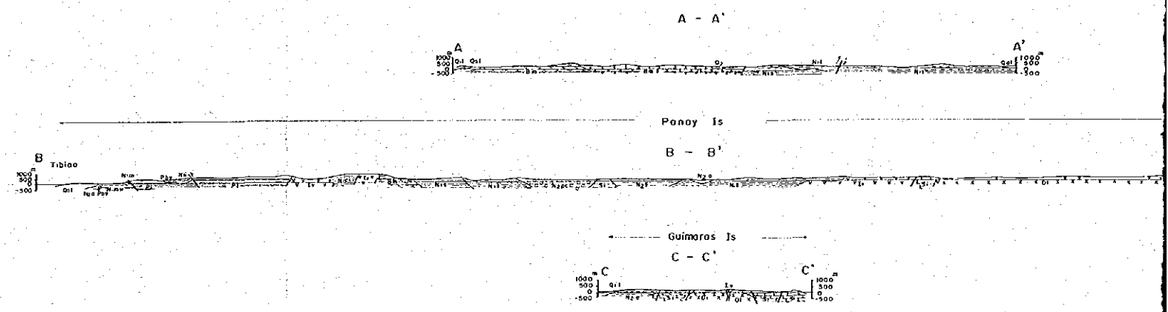
Pre-Tertiary
Nzm
Nzc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Tibiao
Guimaras Is
C - C'
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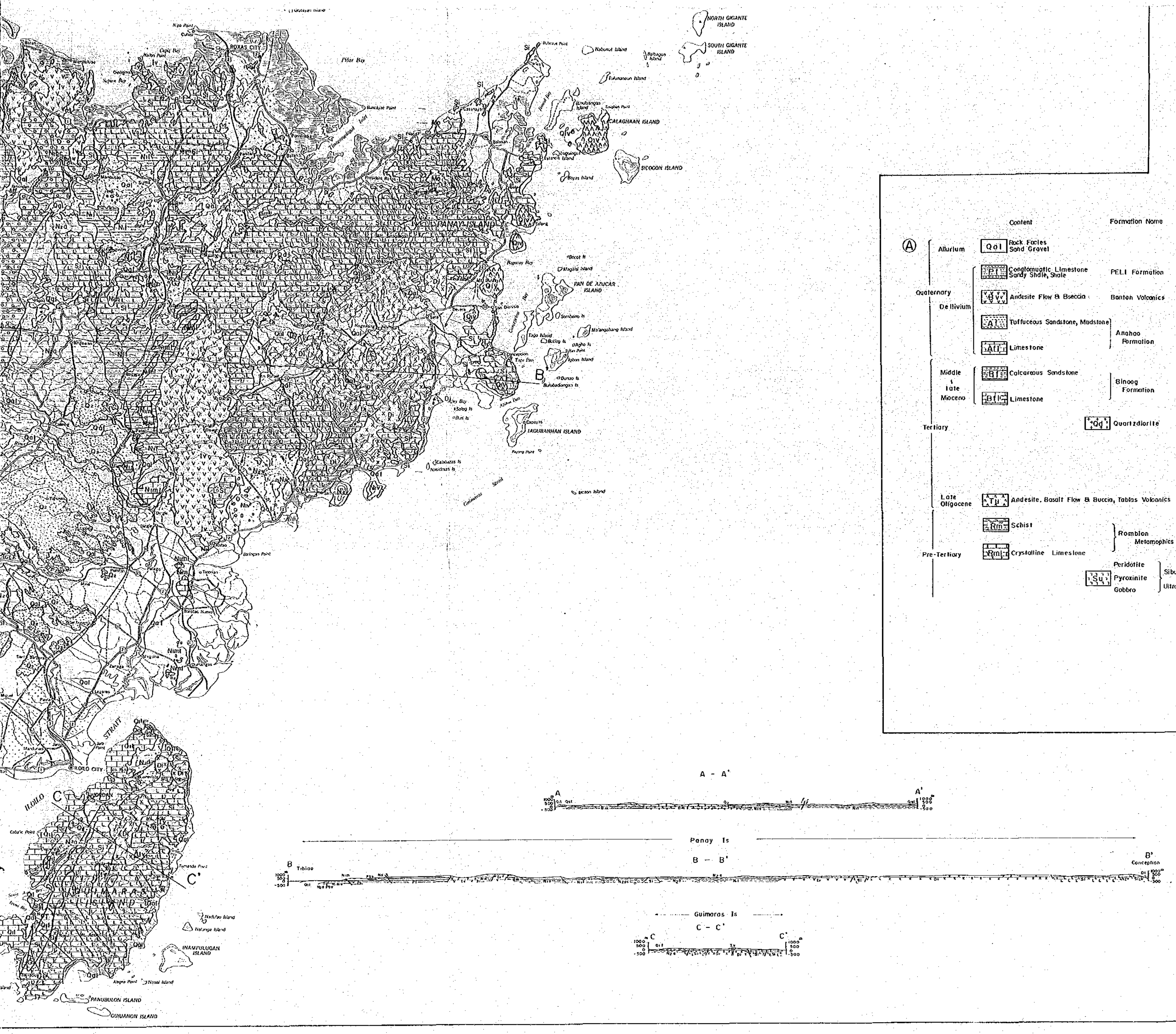

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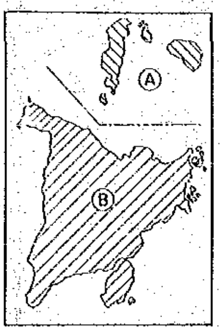

Ⓐ

			Content	Formation Name
Quaternary	Allurium	Qal	Rock Facies Sand Gravel	
	Dellivium	Pl	Conglomuatic Limestone Sandy Shdle, Shale	PELI Formation
		B	Andesite Flow & Bseccia	Banton Volcanics
		At	Tuffuceous Sandstone, Mudstone	Anahao Formation
		Atl	Limestone	
Tertiary	Middle & late Miocena	Bt	Calcareous Sandstone	Binoog Formation
		Btl	Limestone	
		Qd	Quartzdiorite	
	Late Oligocene	Tu	Andesite, Basalt Flow & Buccia, Tablas Volcanics	
Pre-Tertiary		Rm	Schist	Romblon Metamophics
		Rml	Crystalline Limeslone	
		Su	Peridotite Pyroxinite Gobbro	Sibuyan Ultra-Mafic Rockes

Ⓑ

			Contents	Formation Name		Contents	Rock Name
Quaternary	Holocene	Qal	Soil, Gravel Sand Coral Reef				
	Dellirivium	Q2	Sandstone Siltstone Mudstone	Cabatuan Fm (Santa Cruz Fm)			
		Q1l	Limestone	Guimasaos Fm Santa Cruz Fm	Q1v	Andesite	Odiongan Volcanics
Tertiary	Pliocene	N2al	Limestone	Ulian Limestone			
		N2a	Meril Mudstone Wacke	Apdo Fm (Ulian Fm)			
		N2pc	Conglomerate	Panlupan Conglomerate (Iday Fm)			
	Miocene	N1m	Calcarenites Basalt Flow & Breccia	Mayos Fm (Makato Fm)	N1ml	Limestone	Makato Fm
		N1l	Siltstone, Mudstone, Tuff, Wacke, Minor Conglomerate	Lagdo Fm (Toledo Fm)	Gd	Granodiorite	Pacol Diorite
		N1mw	Turbidite, Wacke, Andesite, Flow, Minor Siltstone,	Maliao Wackes			
		N1lv	Andesite Flow & Lreccia, Tuff, Wacke, Conglomerate	Igsawa Pyroclastics	Iv	Igupaco Volcanics, Basalt Flow & Breccia	
		N1s	Mudstone, Wacke, Conglomerate Minor Basalt & Andesite Flow	Sewaragan Fm (Libacao Fm Singit Fm)	Ppb	Basalt Flow & Breccia Tuff	Panpnan Basalt
	Oligocene	Pbv	Pillow & Lreccia Basalt. Minor Tusbidite & Coglomerate	Mt. Baloy Volcanios			
	Eocene	Pl	Calcite Veined Mudstone, Turlidites Volcanic Wacke, Conglomerate	Lubuyan Fm			
		Pipc	Mudstone, Chert Siltstone, Minor Basalt Lova & Sheet	Igbao Sediments			
	Paleocene	Si	Basic Clastic Sediments	Sibora Fm	Di	Sara Dioite (Guimaras Dioite)	
					Mo	Pilar Manzonite	
Pre-Tertiary		Bm	Crystalline Schist Slate Phyllite, Chert	Basement	Bml	Lime Stone Basement	

Antique Ophiolites

Ppl	Pillow Lavas	Pd	Diabase Dyke Complex
Pg	Massive Gabbro	Ps	Serpentinite & Serpentinzed Harzburgite

Geologic Symbols

Fault

Dip. Strike

Anticline Axis

Syncline Axis

A - A'

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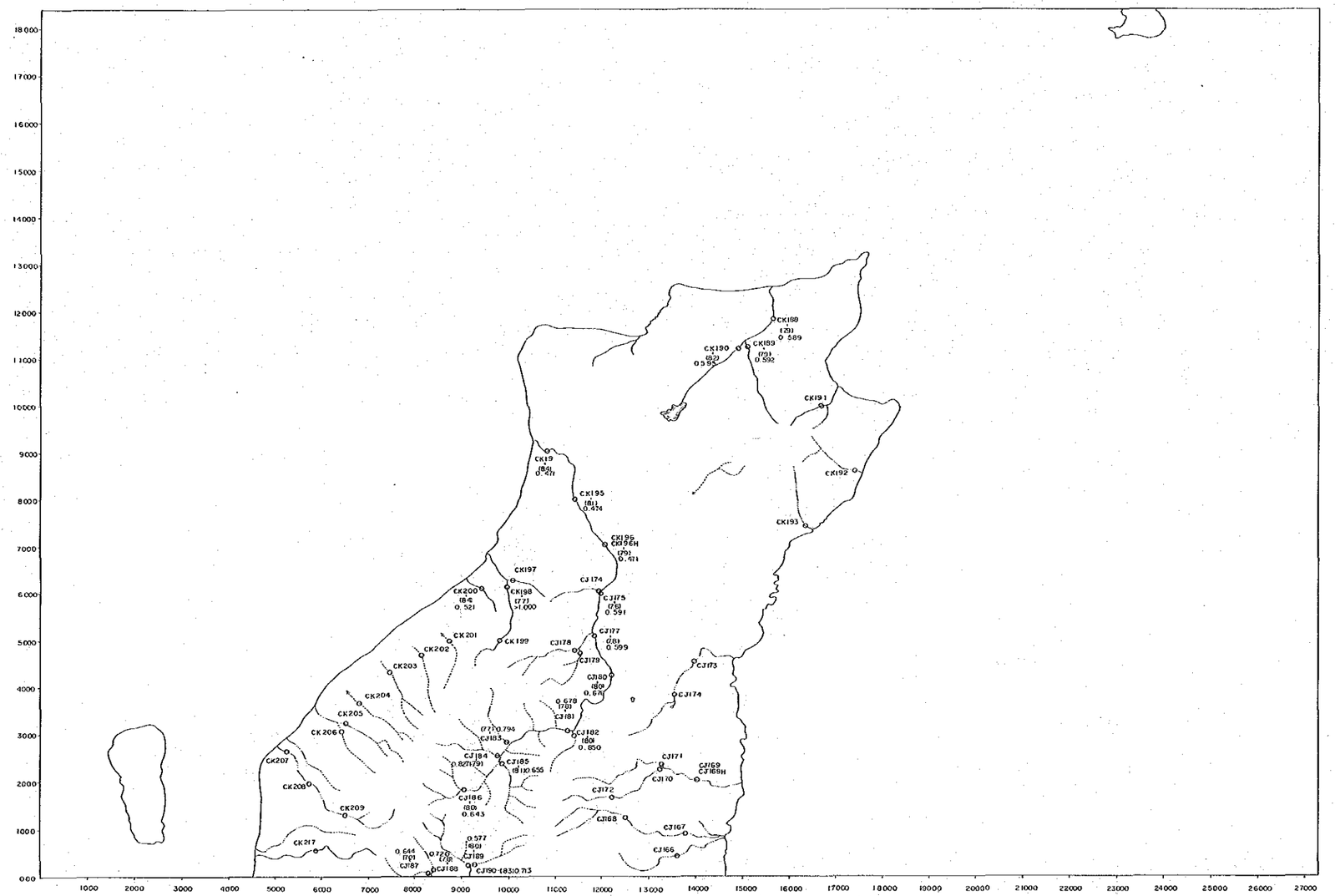
SHEET 3853 IV



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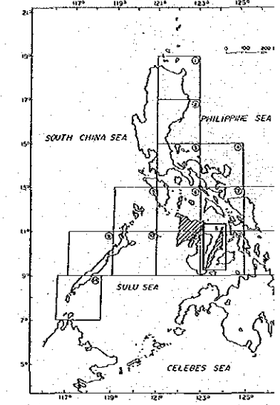
THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS
CONTRASTING GEOLOGIC ENVIRONM
IN
THE REPUBLIC OF THE PHILIPPI
PHASE II

SAMPLING POINT, pH VALUE
ELECTRIC CONDUCTIVITY V

CEBU AREA



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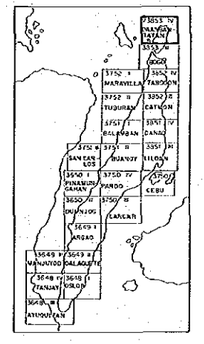


O : Sampling point

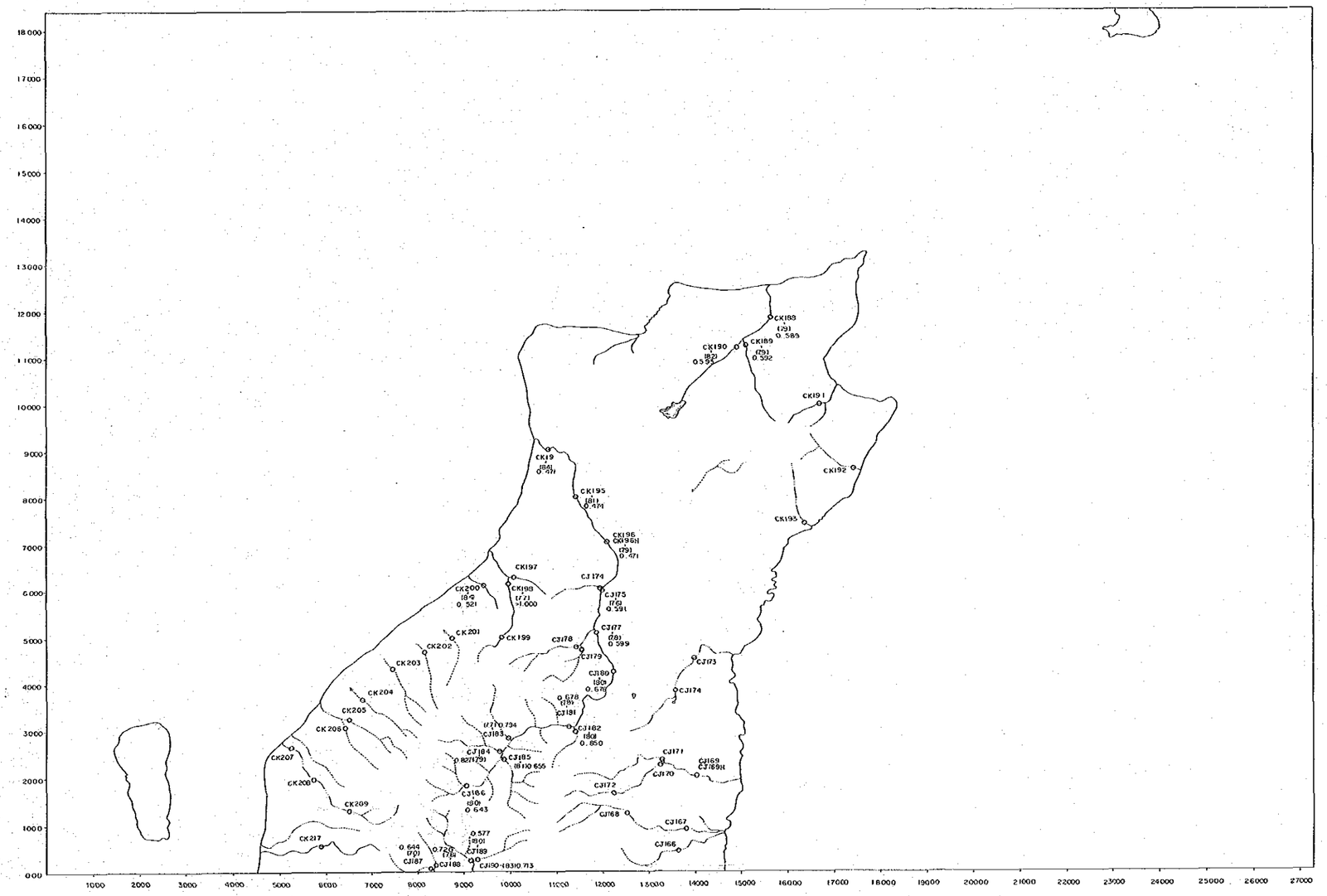
(7.0) : pH

0.280 : Electric condu

B-48 : Sampling point

DAANBANTAYAN

SHEET 3853 IV



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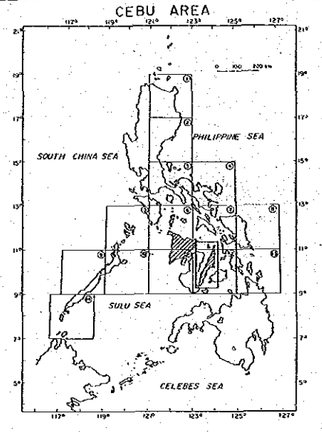
THE MINERAL EXPLORATION – MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS IN THE REPUBLIC OF THE PHILIPPINES PHASE Ⅲ

SAMPLING POINT, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

CEBU AREA



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METAL MINING AGENCY OF JAPAN
Feb. 1987

Scale 1 : 50,000

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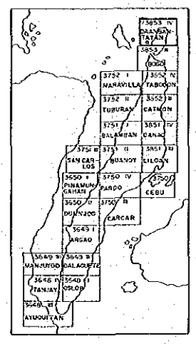


O : Sampling point (Stream sediment, heavy mineral)

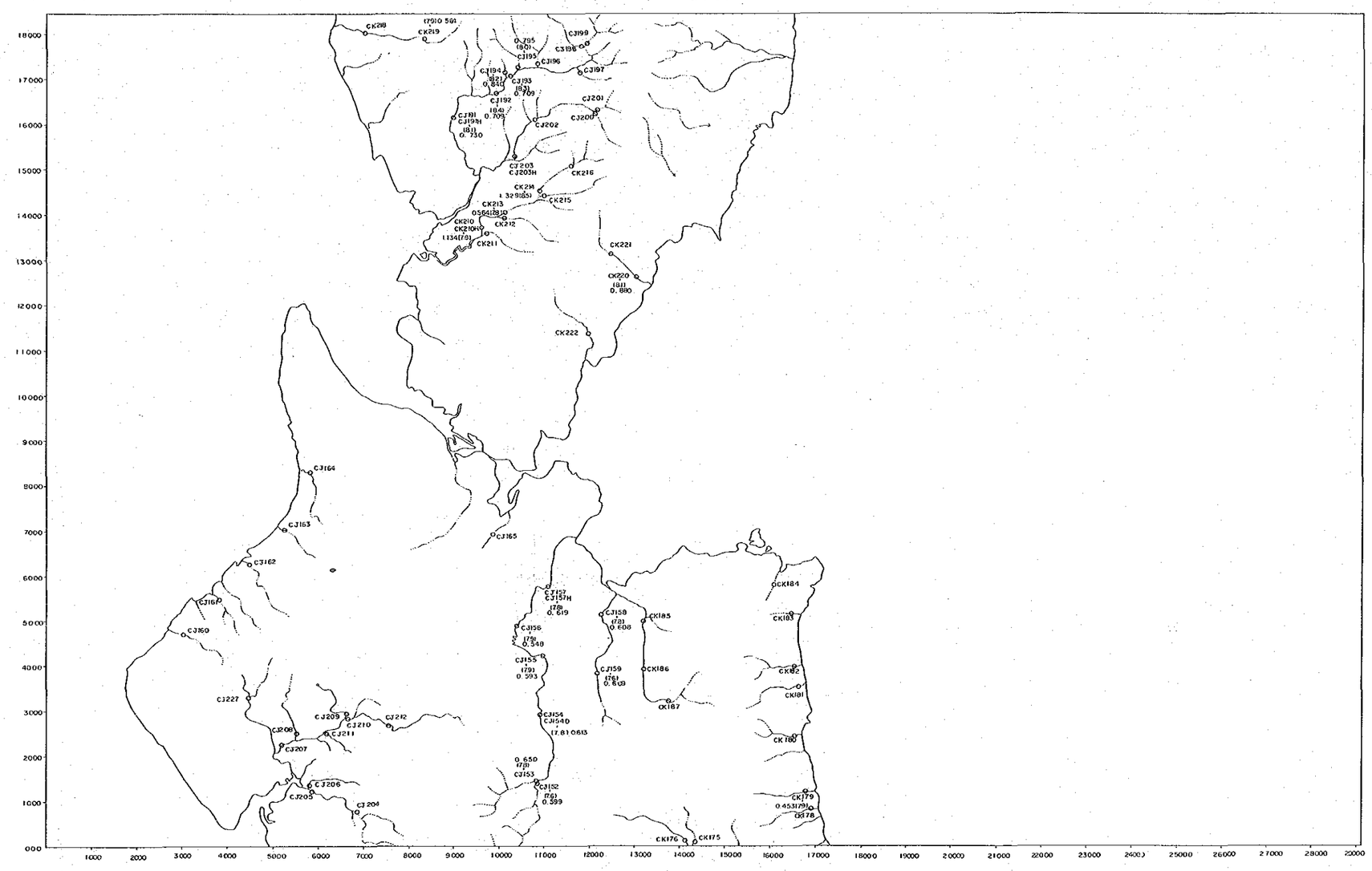
(7.0) : pH

0.280 : Electric conductivity (μs/cm)

B-48 : Sampling point (for laboratory work)

BOGO

SHEET 3853 III



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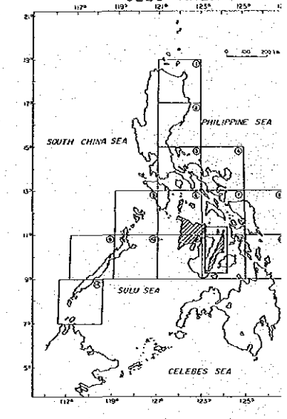
THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS OF
CONTRASTING GEOLOGIC ENVIRONMI
IN
THE REPUBLIC OF THE PHILIPPIN
PHASE III

SAMPLING POINT, pH VALUES
ELECTRIC CONDUCTIVITY VA

CEBU AREA



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METAL MINING AGENCY OF JAPA
Feb. 1987

Scale 1 : 50,000

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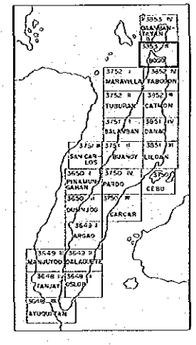


O : Sampling point

(7.0) : pH

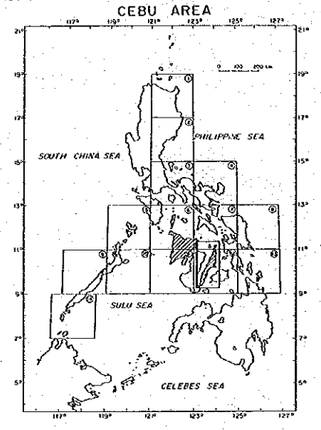
0.280 : Electric conduc

8-48 : Sampling point

THE MINERAL EXPLORATION
— MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS —
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE Ⅲ

SAMPLING POINT, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

CEBU AREA

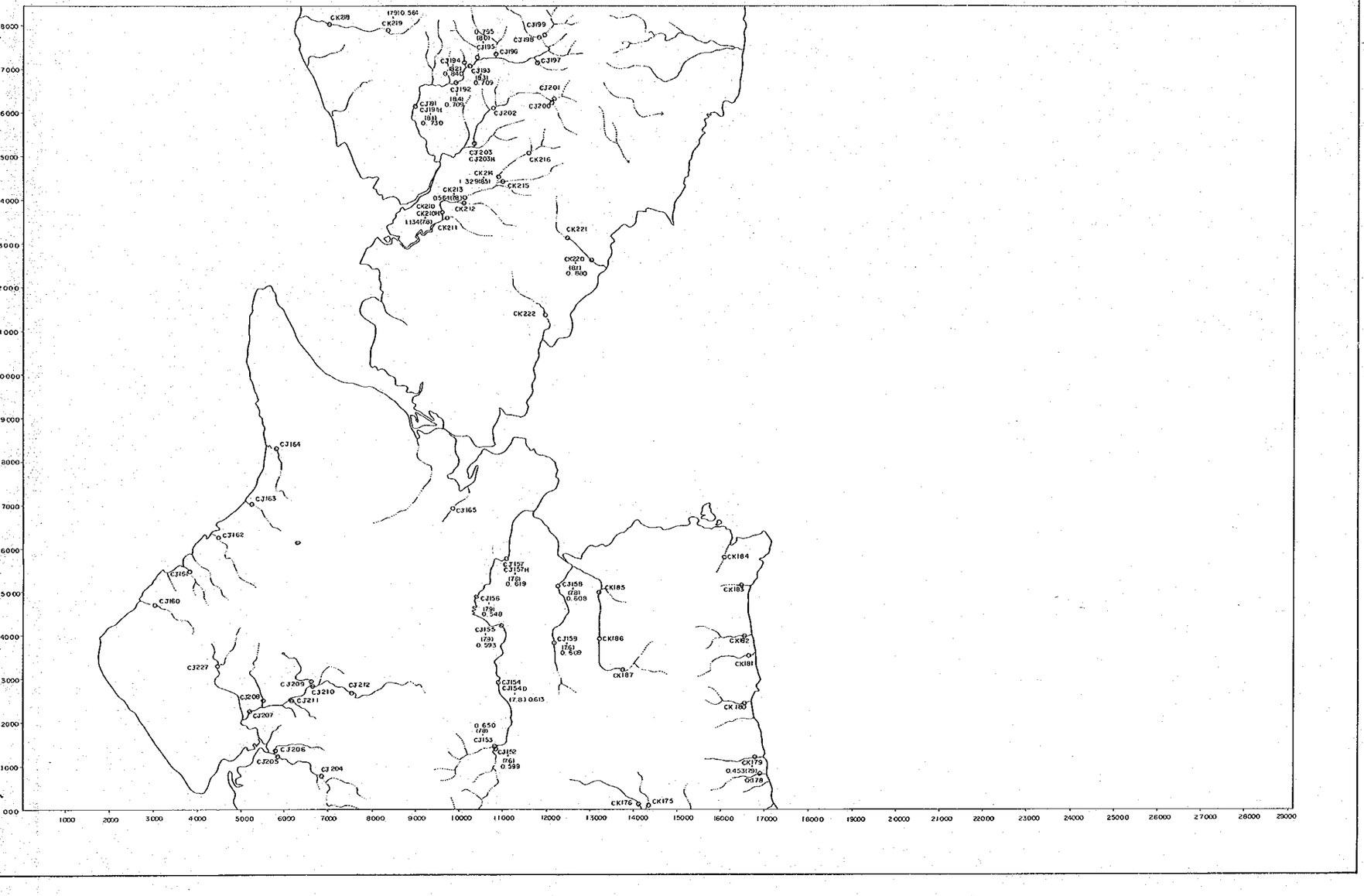


JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

Feb. 1987

BOGO

SHEET 3853 Ⅲ



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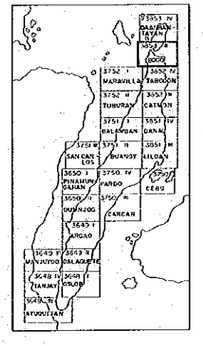


O : Sampling point (Stream sediment, heavy mineral)

(7.0) : pH

0.280 : Electric conductivity (μs/cm)

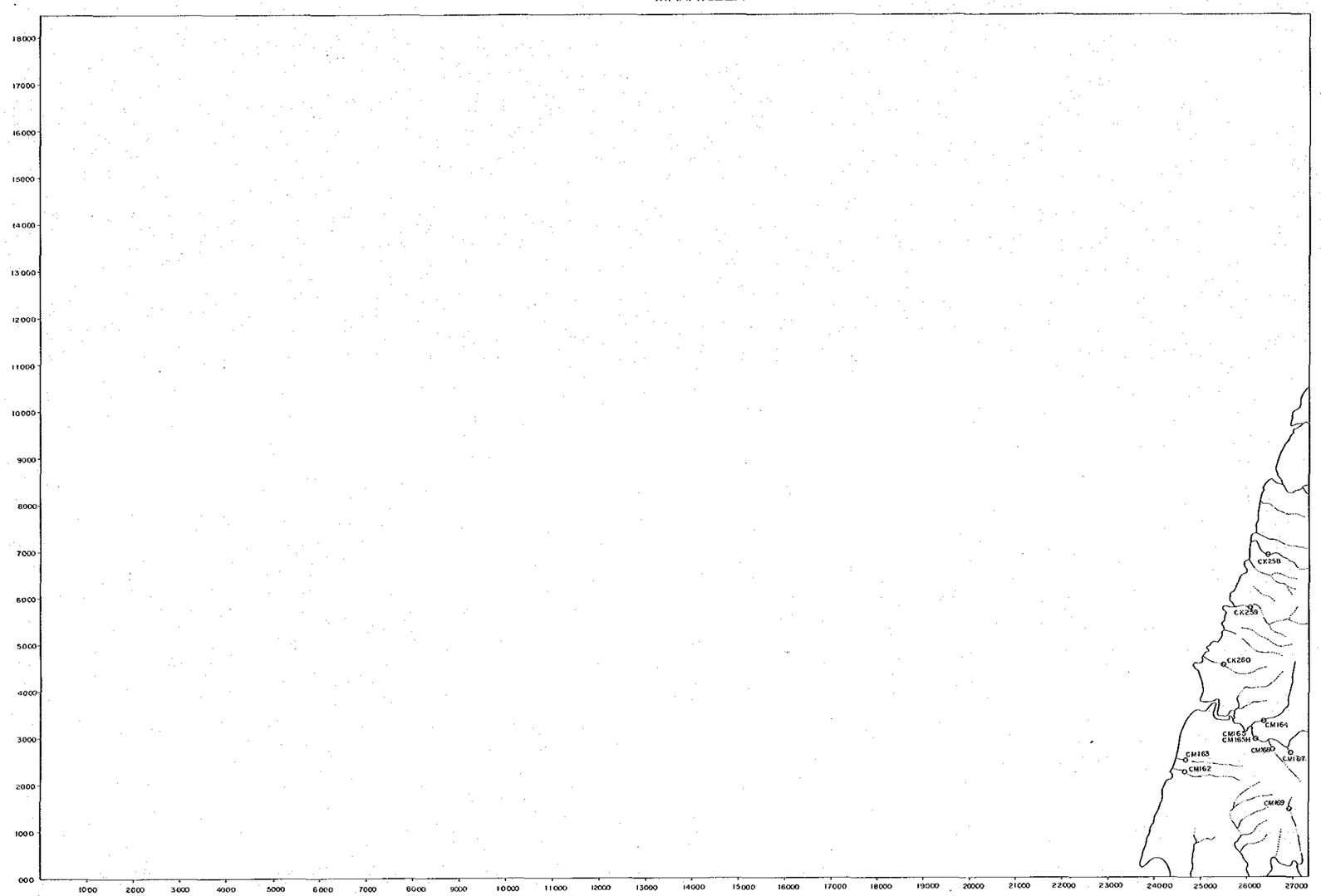
B-48 : Sampling point (for laboratory work)

Scale 1 : 50,000

0 2 4 km

MARAVILLA

SHEET 3752 I



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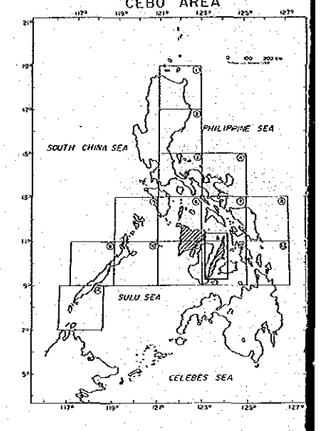
THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS OF TY
CONTRASTING GEOLOGIC ENVIRONMENT
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE III

SAMPLING POINT, pH VALUES
ELECTRIC CONDUCTIVITY VALU

CEBU AREA



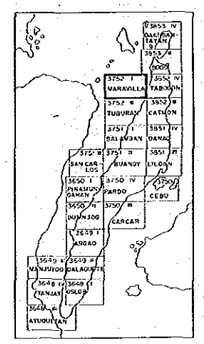
JAPAN INTERNATIONAL COOPERATION AGE
METAL MINING AGENCY OF JAPAN

Feb. 1987

Scale 1 : 50,000

0 2 4 km

LEGEND



O : Sampling point (St
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(7.0) : pH

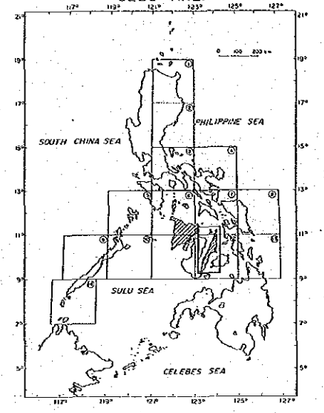
0.280 : Electric conductiv

B-48 : Sampling point (fo

THE MINERAL EXPLORATION – MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS – IN THE REPUBLIC OF THE PHILIPPINES PHASE II

SAMPLING POINT, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

CEBU AREA



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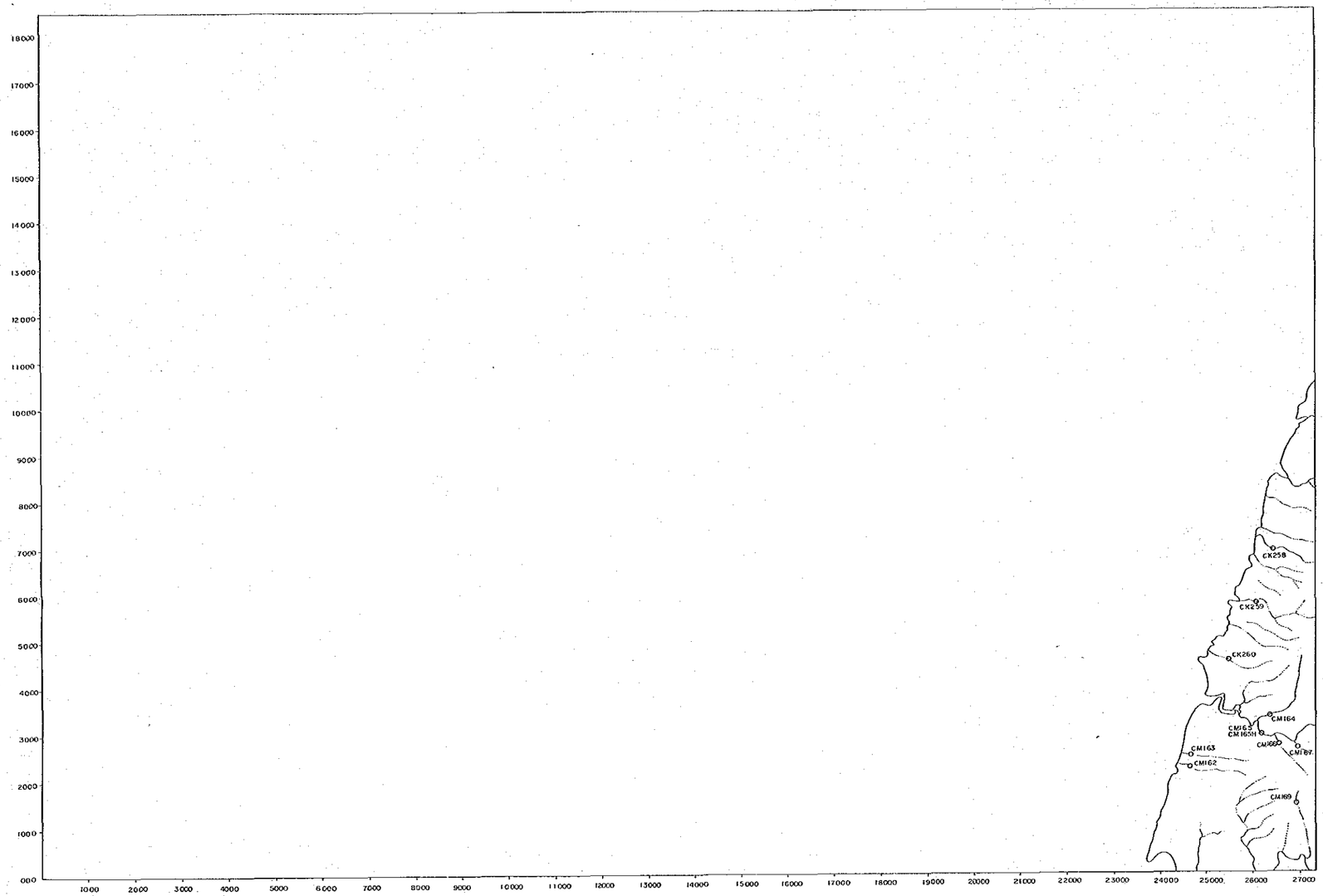
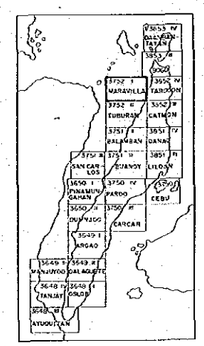
MARAVILLA SHEET 3752 I



Scale 1 : 50,000

0 2 4 km

LEGEND



O : Sampling point (Stream sediment, heavy mineral)

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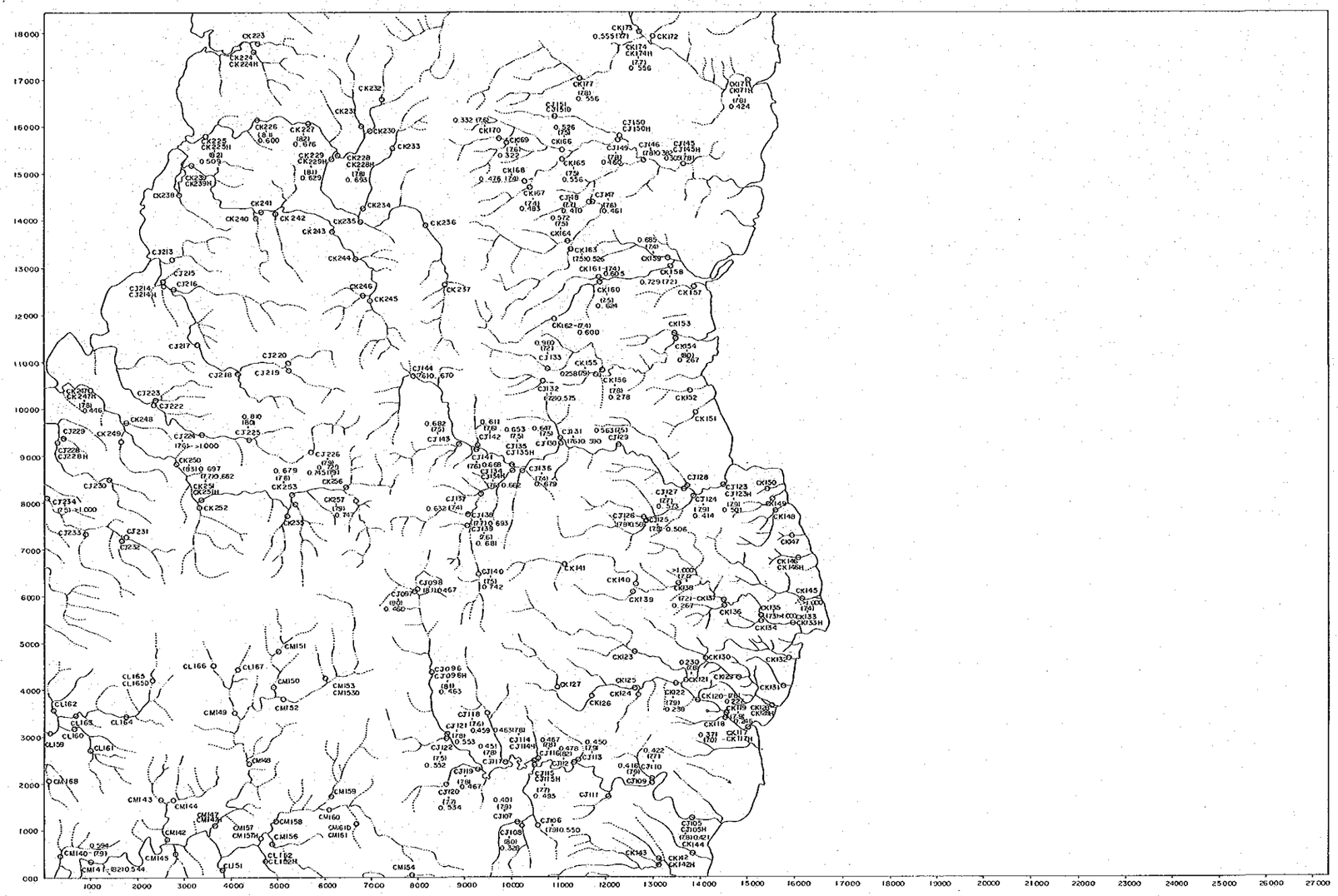
0.280 : Electric conductivity (μs/cm)

B-48 : Sampling point (for laboratory work)

TABOGON

SHEET 3852 IV



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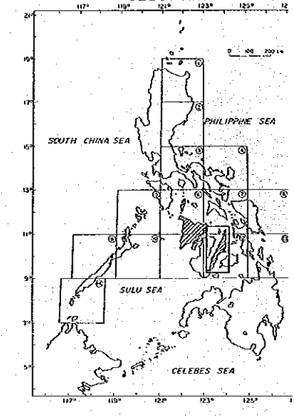
THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS OF
CONTRASTING GEOLOGIC ENVIRONME
IN
THE REPUBLIC OF THE PHILIPPINI
PHASE III

SAMPLING POINT, pH VALUES
ELECTRIC CONDUCTIVITY VA

CEBU AREA



JAPAN INTERNATIONAL COOPERATION AG
METAL MINING AGENCY OF JAPAN

Feb. 1987

Scale 1 : 50,000

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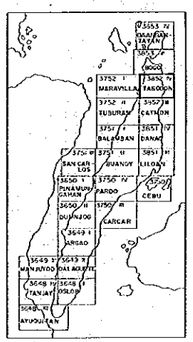

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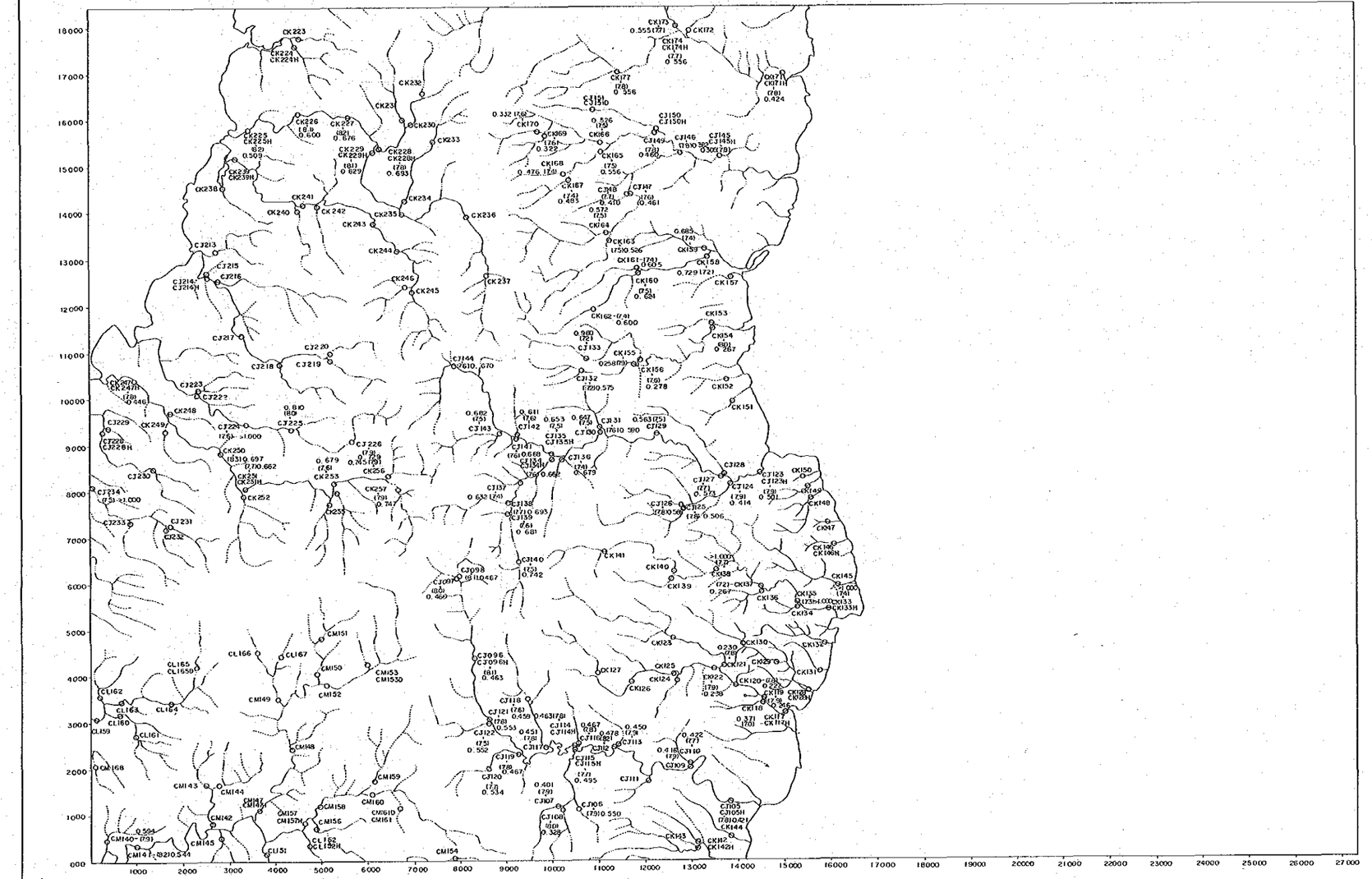
0.280 : Electric conduct

B-48 : Sampling point (f

TABOGON

SHEET 3852 IV



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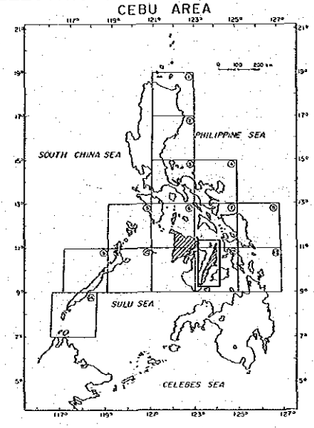
THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS –
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE Ⅲ

SAMPLING POINT, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

CEBU AREA

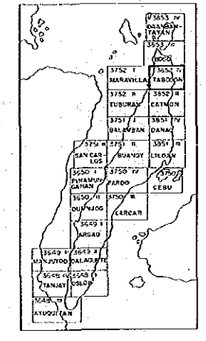


JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
Feb. 1987

Scale 1 : 50,000

0 2 4 km

LEGEND



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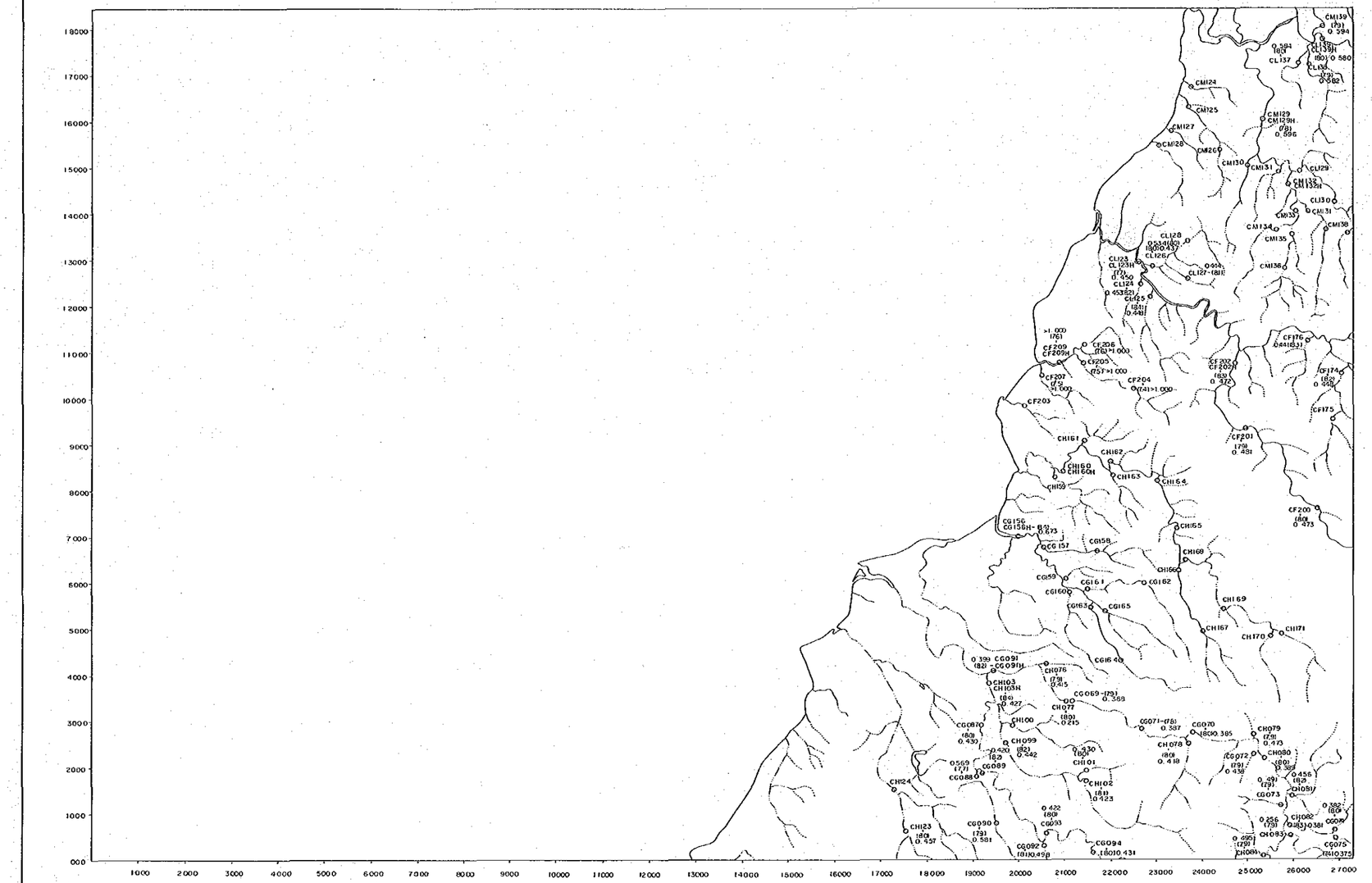
TUBURAN

SHEET 3752 II



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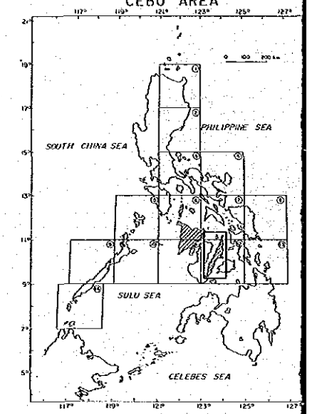
THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS OF T
CONTRASTING GEOLOGIC ENVIRONMEN
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE II

SAMPLING POINT, pH VALUES ELECTRIC CONDUCTIVITY VAL

CEBU AREA

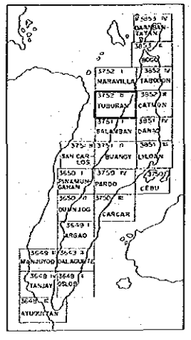


JAPAN INTERNATIONAL COOPERATION AGE
METAL MINING AGENCY OF JAPAN
Feb. 1987

Scale 1 : 50,000

0 2 4 km

LEGEND



O : Sampling point (SI he

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0.280 : Electric conductiv

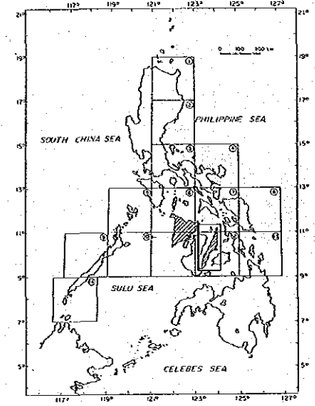
B-48 : Sampling point (fo

PL. 3-5

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

SAMPLING POINT, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

CEBU AREA

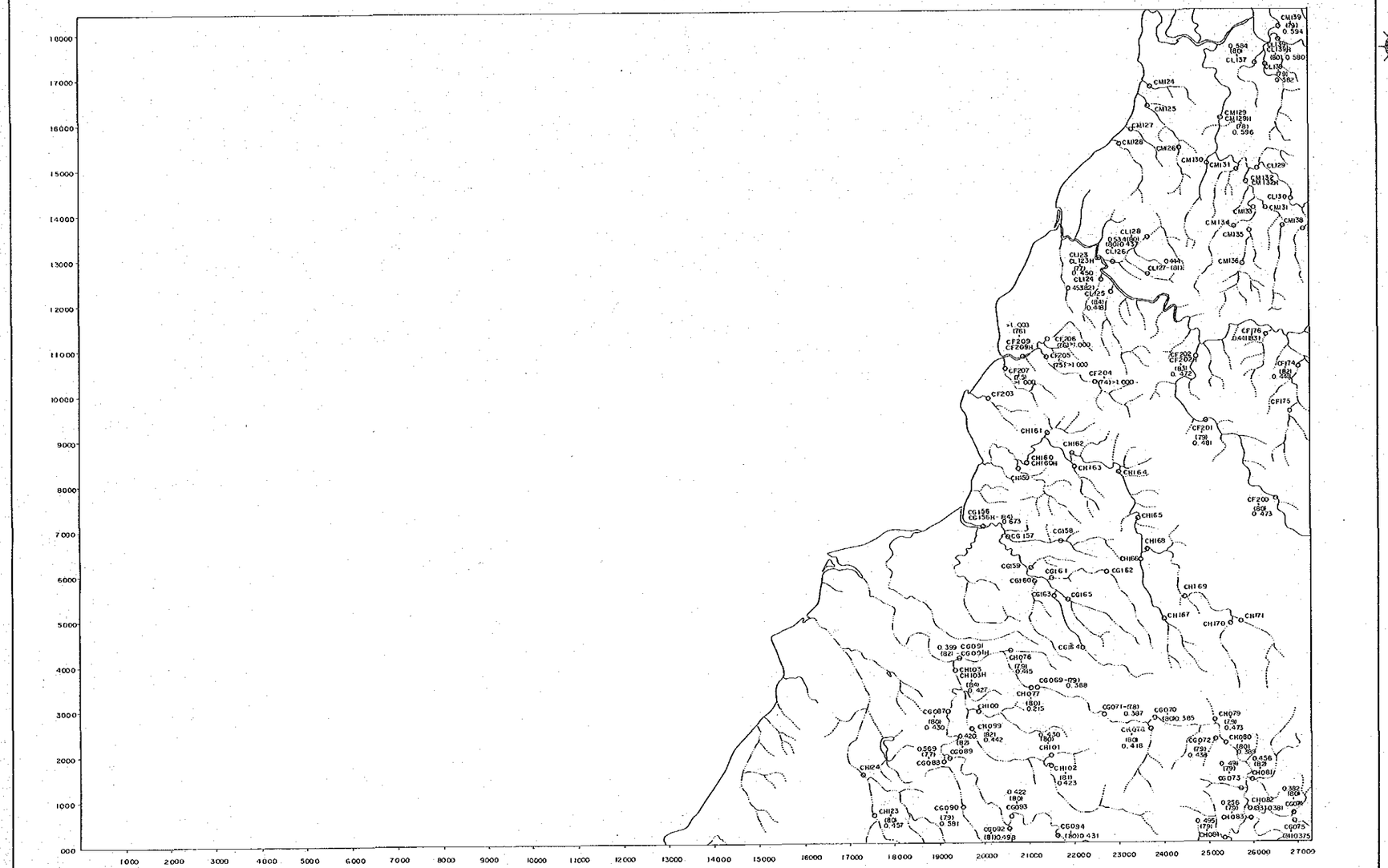


JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

Feb. 1987

TUBURAN

SHEET 3752 II



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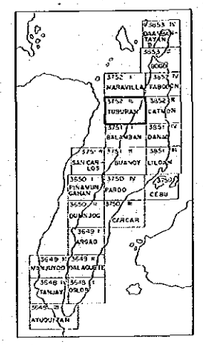

○ : Sampling point (Stream sediment, heavy mineral)

(7.0) : pH

0.280 : Electric conductivity (μs/cm)

B-48 : Sampling point (for laboratory work)

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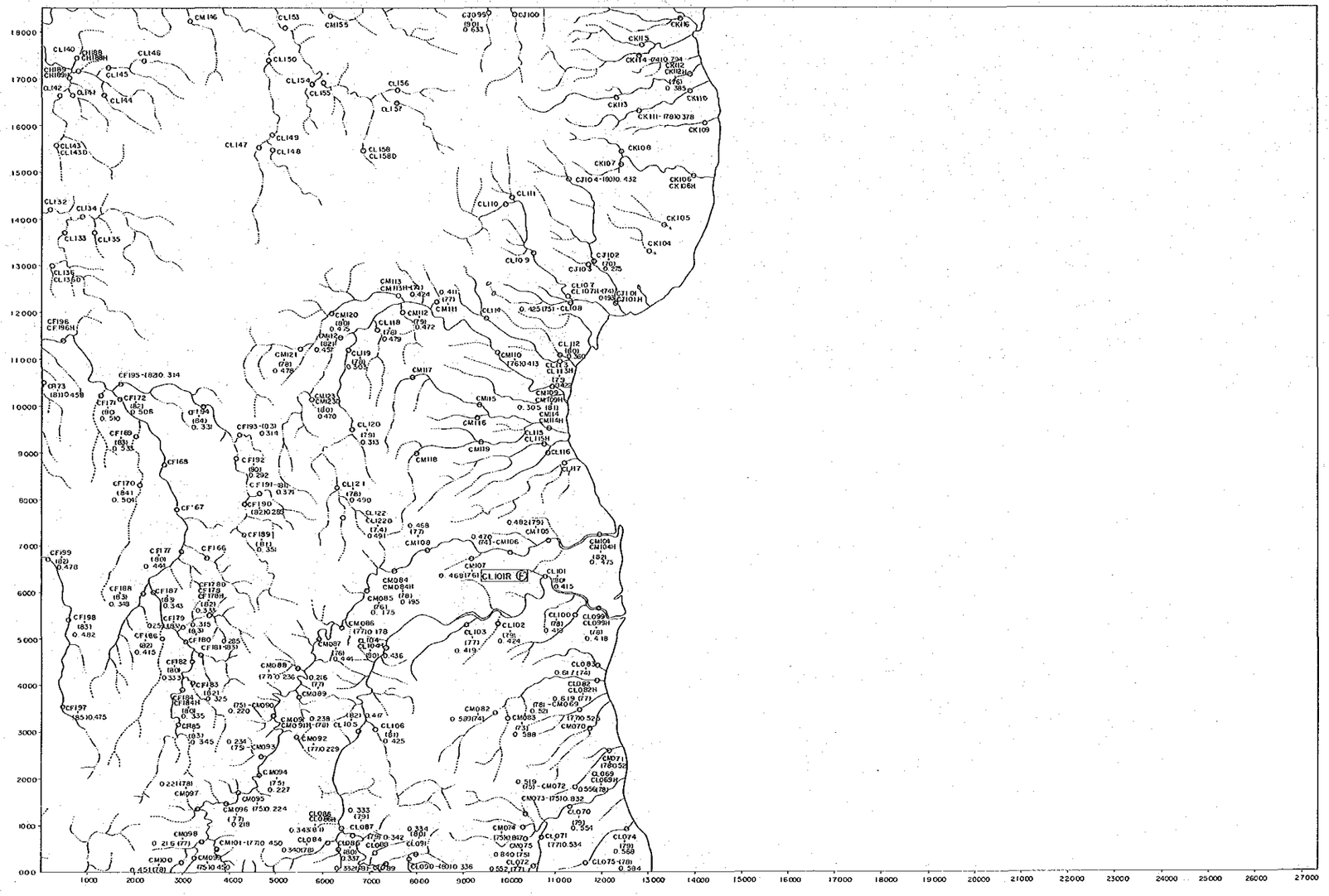
SHEET 3852 III



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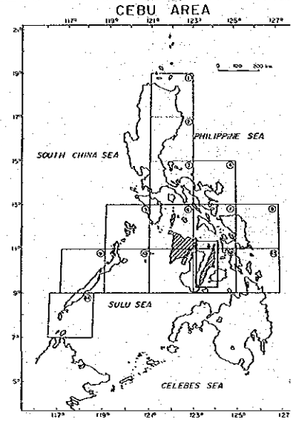
THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS OF
CONTRASTING GEOLOGIC ENVIRONMEN
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE II

SAMPLING POINT, pH VALUES
ELECTRIC CONDUCTIVITY VAL

CEBU AREA



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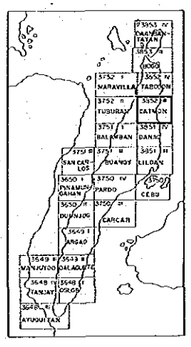
METAL MINING AGENCY OF JAPAN

Feb. 1987

Scale 1 : 50,000

0 2 4 km

LEGEND



O : Sampling point (Sa
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(7.0) : pH

0.280 : Electric conductiv

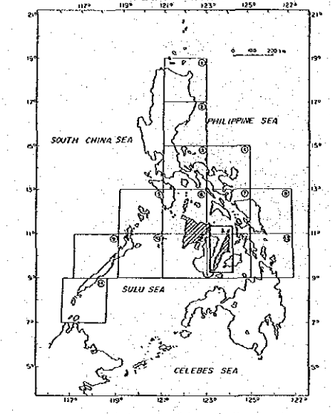
B-48 : Sampling point (fo

PL. 3-6

THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS –
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE Ⅲ

SAMPLING POINT, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

CEBU AREA



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METAL MINING AGENCY OF JAPAN

Feb. 1987

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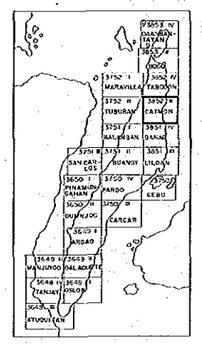
SHEET 3852 Ⅲ

Scale 1 : 50,000

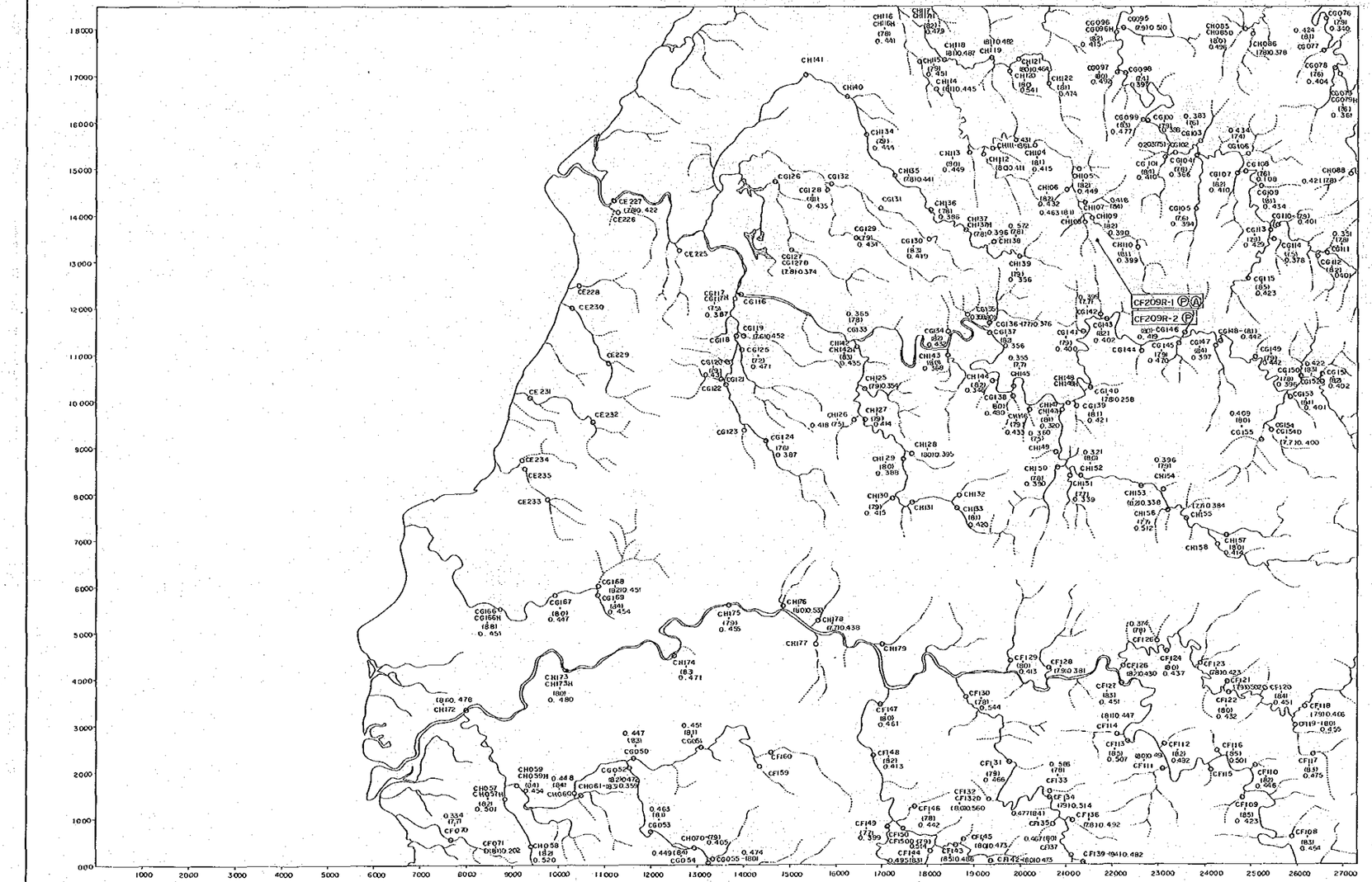
0 2 4 km

LEGEND



- O : Sampling point (Stream sediment, heavy mineral)
- (7.0) : pH
- 0.280 : Electric conductivity (μs/cm)
- B-48 : Sampling point (for laboratory work)

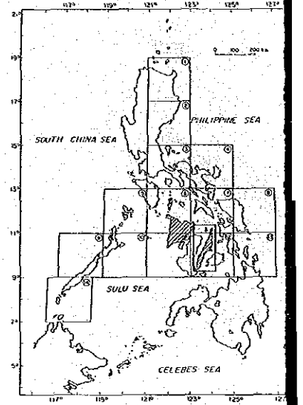
BALAMBAN SHEET 3751 I



THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS OF
CONTRASTING GEOLOGIC ENVIRONMEN
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE II

SAMPLING POINT, pH VALUES
ELECTRIC CONDUCTIVITY VAL

CEBU AREA



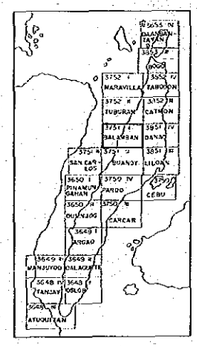
JAPAN INTERNATIONAL COOPERATION AGE
METAL MINING AGENCY OF JAPAN

Feb. 1987

Scale 1 : 50,000

0 2 4 km

LEGEND



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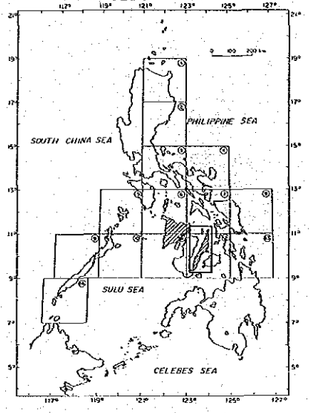
(7.0) : pH

0.280 : Electric conductiv

B-48 : Sampling point (fo

THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS –
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE Ⅱ

SAMPLING POINT, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES
CEBU AREA



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METAL MINING AGENCY OF JAPAN
Feb. 1987

BALAMBAN SHEET 3751 I

Scale 1 : 50,000
0 2 4 km

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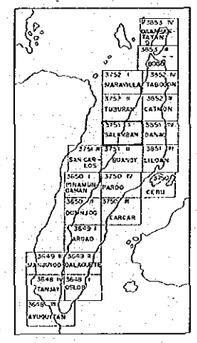

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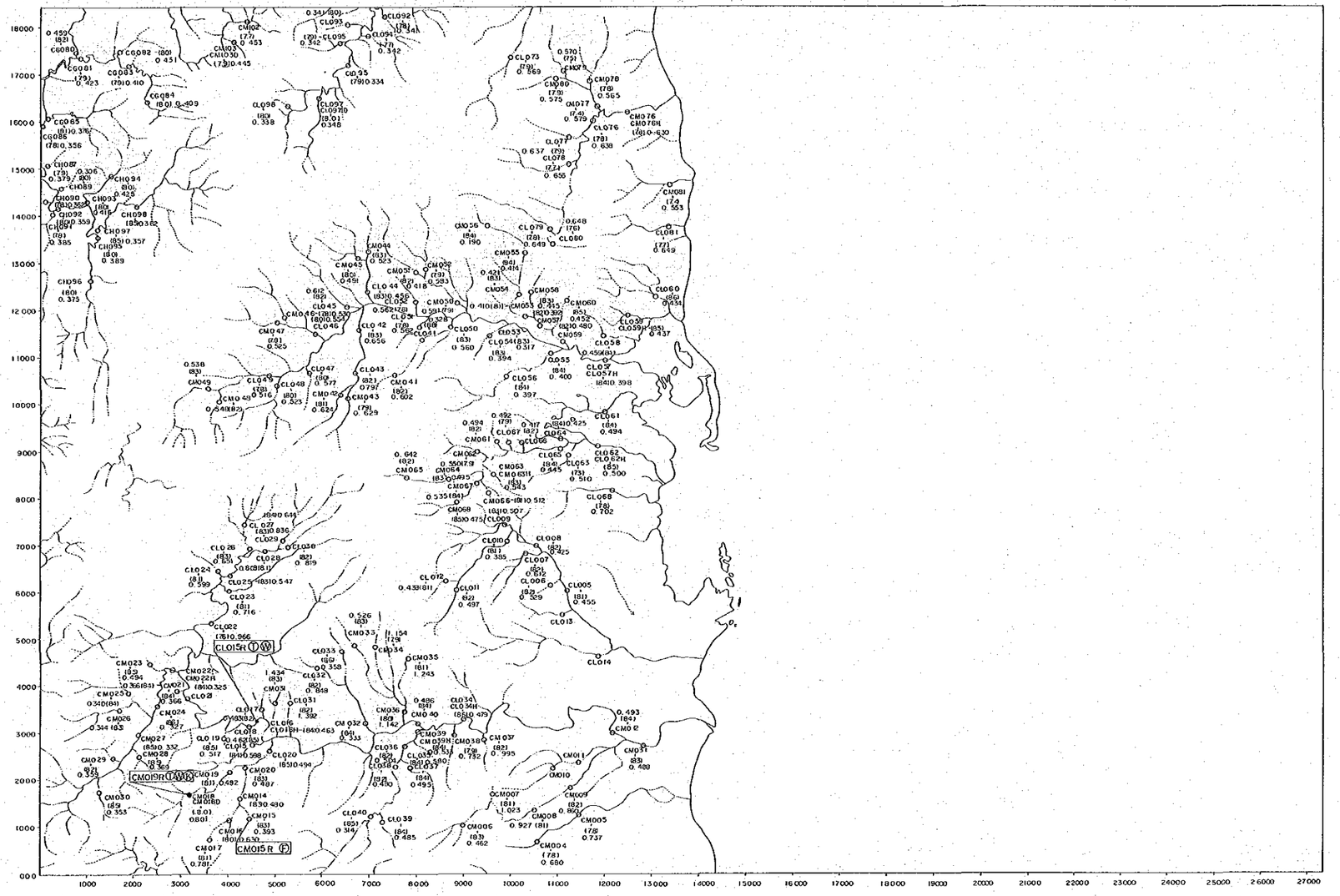
0.280 : Electric conductivity (μs/cm)

8-48 : Sampling point (for laboratory work)

DANAO

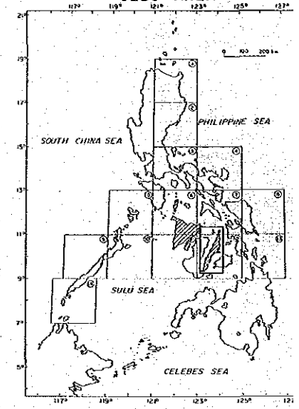
SHEET 3851 IV



THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS OF
CONTRASTING GEOLOGIC ENVIRONMEN
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE III

SAMPLING POINT, pH VALUES
ELECTRIC CONDUCTIVITY VAL

CEBU AREA



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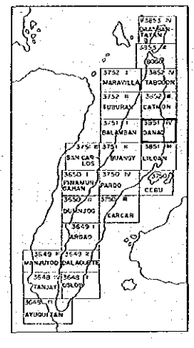
METAL MINING AGENCY OF JAPAN

Feb. 1987

Scale 1 : 50,000

0 2 4 km

LEGEND



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B-48 : Sampling point (fo

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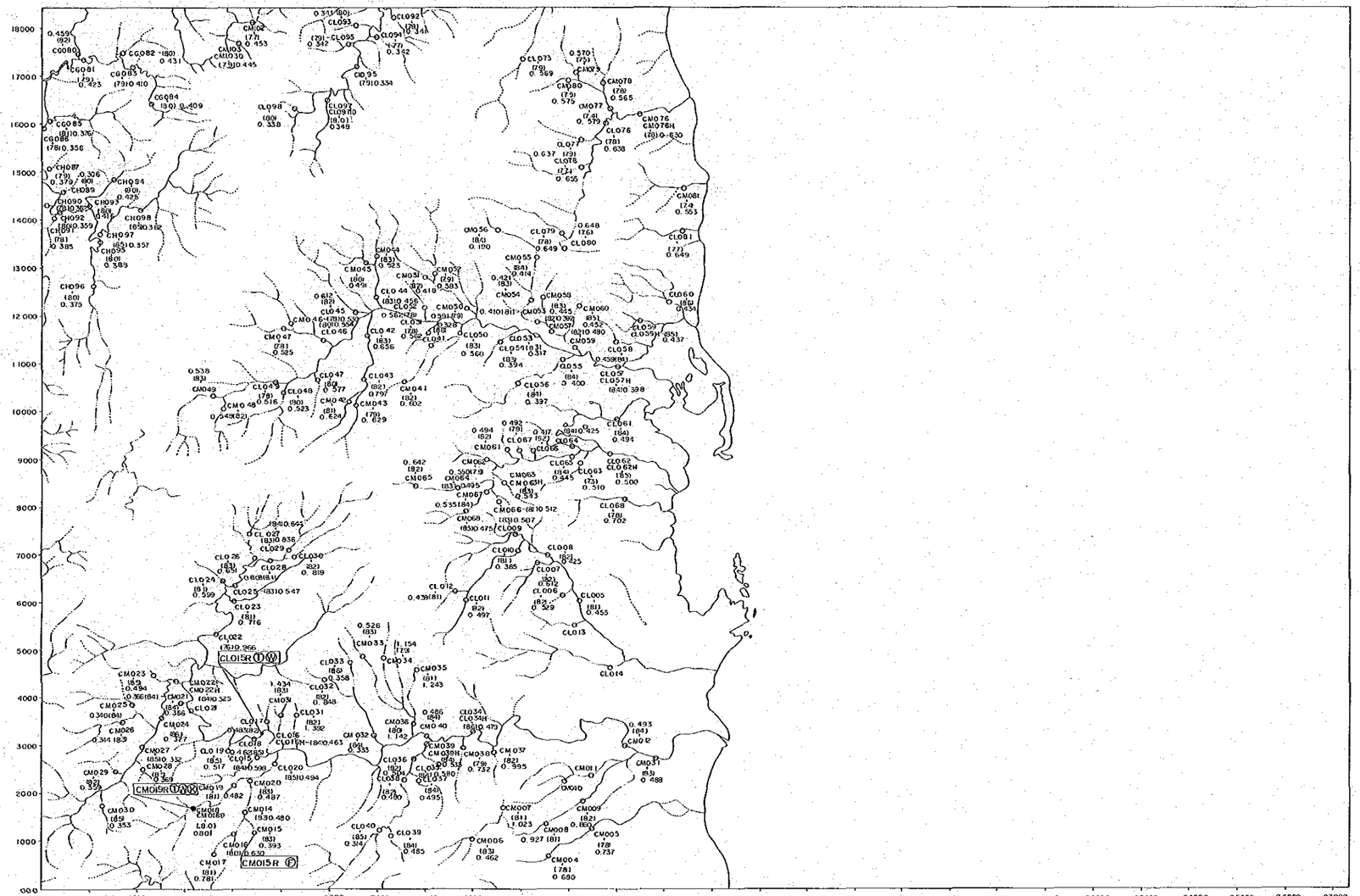

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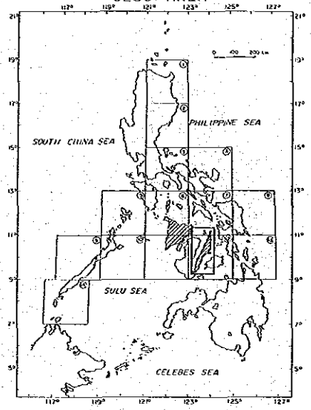
THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS OF CONTRASTING GEOLOGIC ENVIRONMENTS –
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE II

SAMPLING POINT, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

CEBU AREA



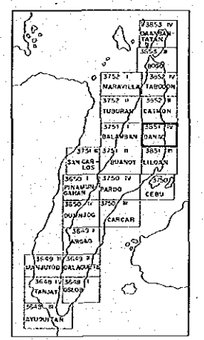
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

Feb. 1987

Scale 1 : 50,000

0 2 4 km

LEGEND



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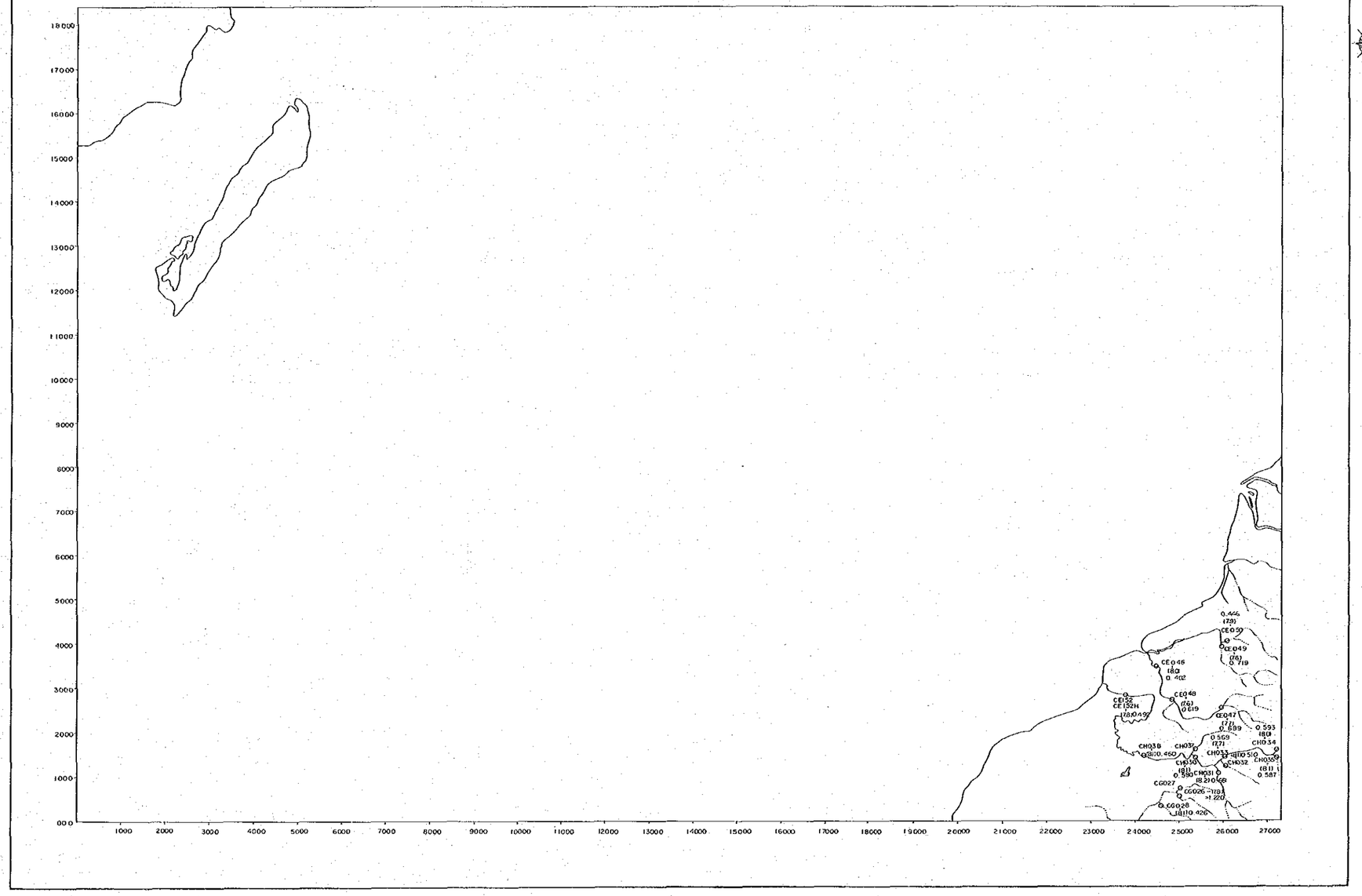
SAN CARLOS

SHEET 3751 III



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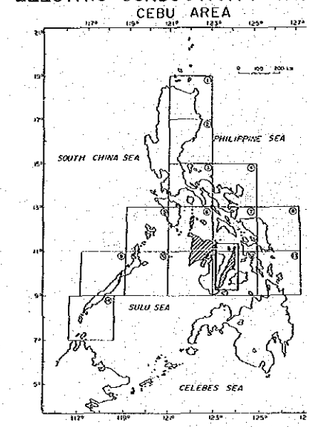
THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS OF
CONTRASTING GEOLOGIC ENVIRONMEI
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE III

SAMPLING POINT, pH VALUES
ELECTRIC CONDUCTIVITY VAL

CEBU AREA



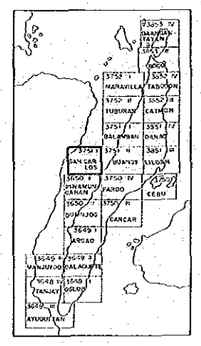
JAPAN INTERNATIONAL COOPERATION AG
METAL MINING AGENCY OF JAPAN

Feb. 1987

Scale 1 : 50,000

0 2 4 km

LEGEND



○ : Sampling point (Sa
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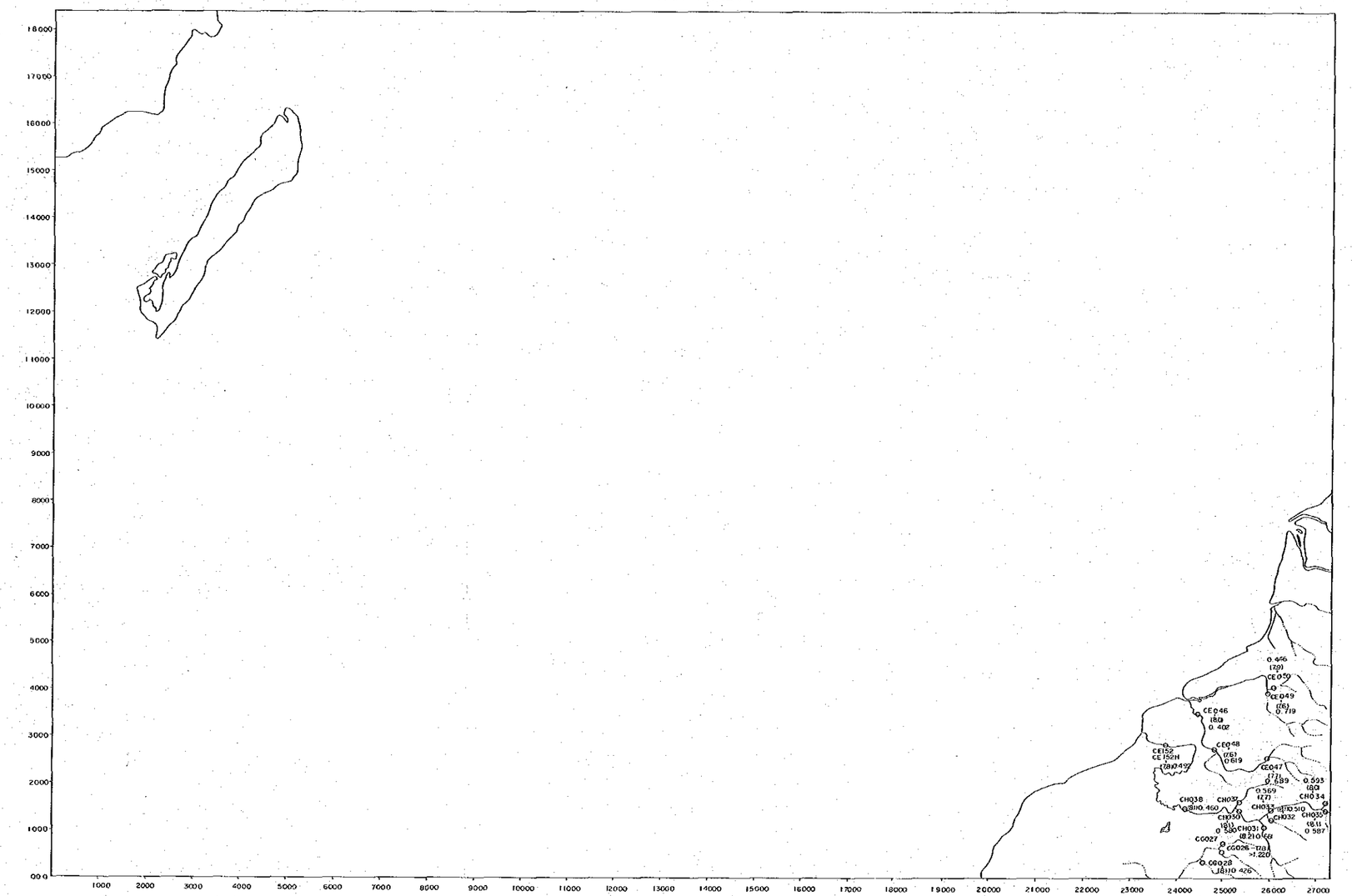
(7.0) : pH

0.280 : Electric conductivi

8-46 : Sampling point (for

SAN CARLOS

SHEET 3751 III



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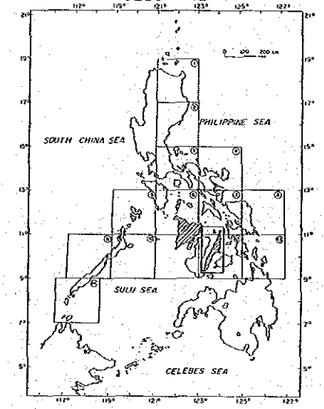
THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS OF TWO CONTRASTING GEOLOGIC ENVIRONMENTS –
IN
THE REPUBLIC OF THE PHILIPPINES
PHASE III

SAMPLING POINT, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

CEBU AREA

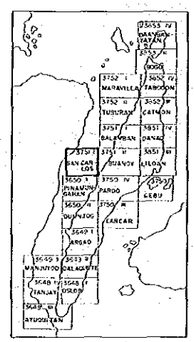


JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
Feb. 1987

Scale 1 : 50,000

0 2 4 km

LEGEND



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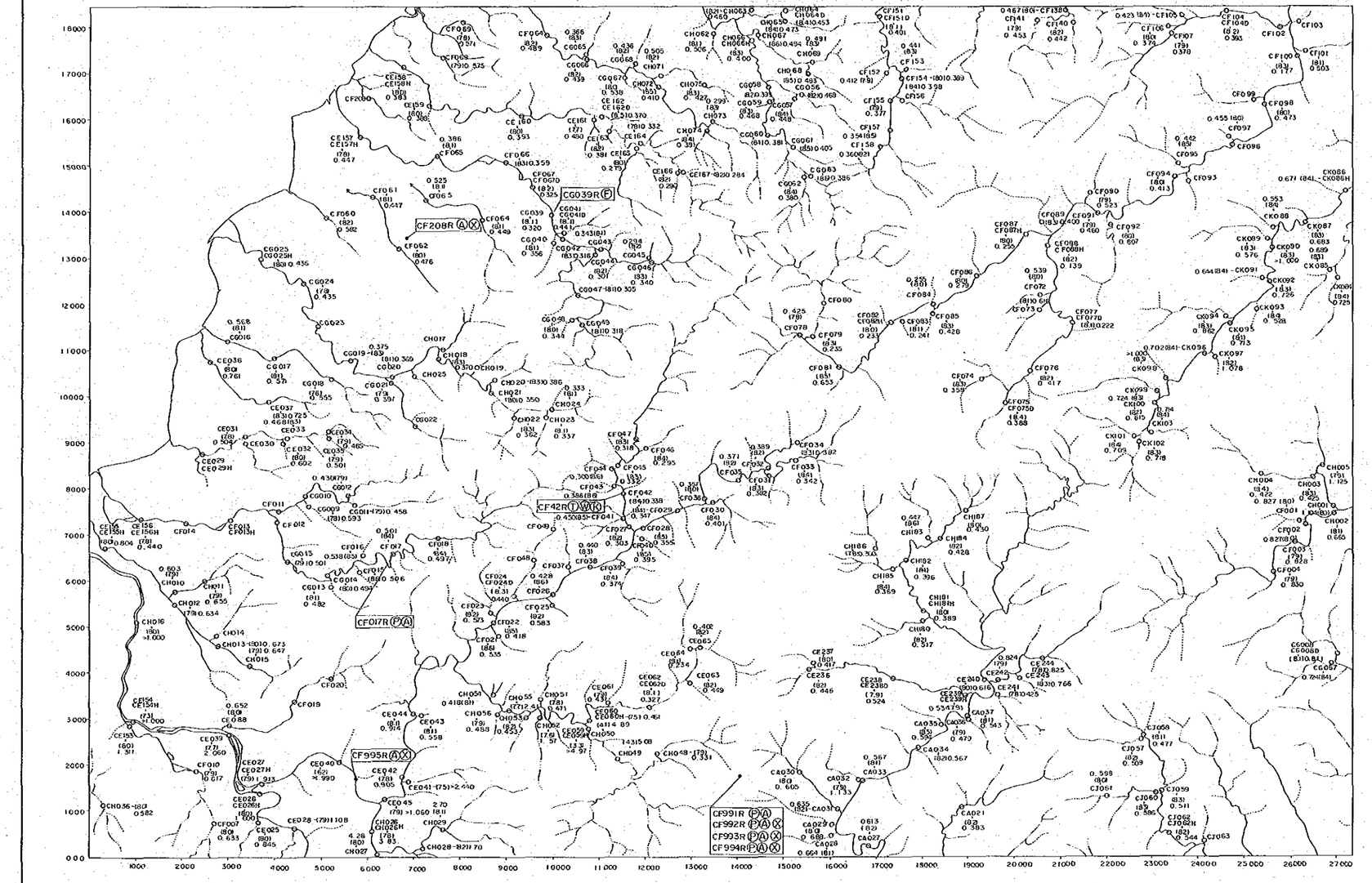
BUANOY

SHEET 3751 II



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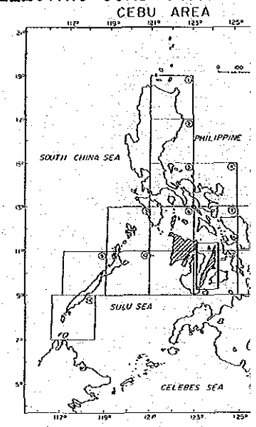
THE MINERAL EXPLORATI
– MINERAL DEPOSITS AND TECTONIC
CONTRASTING GEOLOGIC ENVIRC
IN
THE REPUBLIC OF THE PHILIF
PHASE III

SAMPLING POINT, pH VALI
ELECTRIC CONDUCTIVITY

CEBU AREA



JAPAN INTERNATIONAL COOPERATIO
METAL MINING AGENCY OF J

Feb. 1987

Scale 1 : 50,000

LEGEND

O : Sampling p

(7.0) : pH

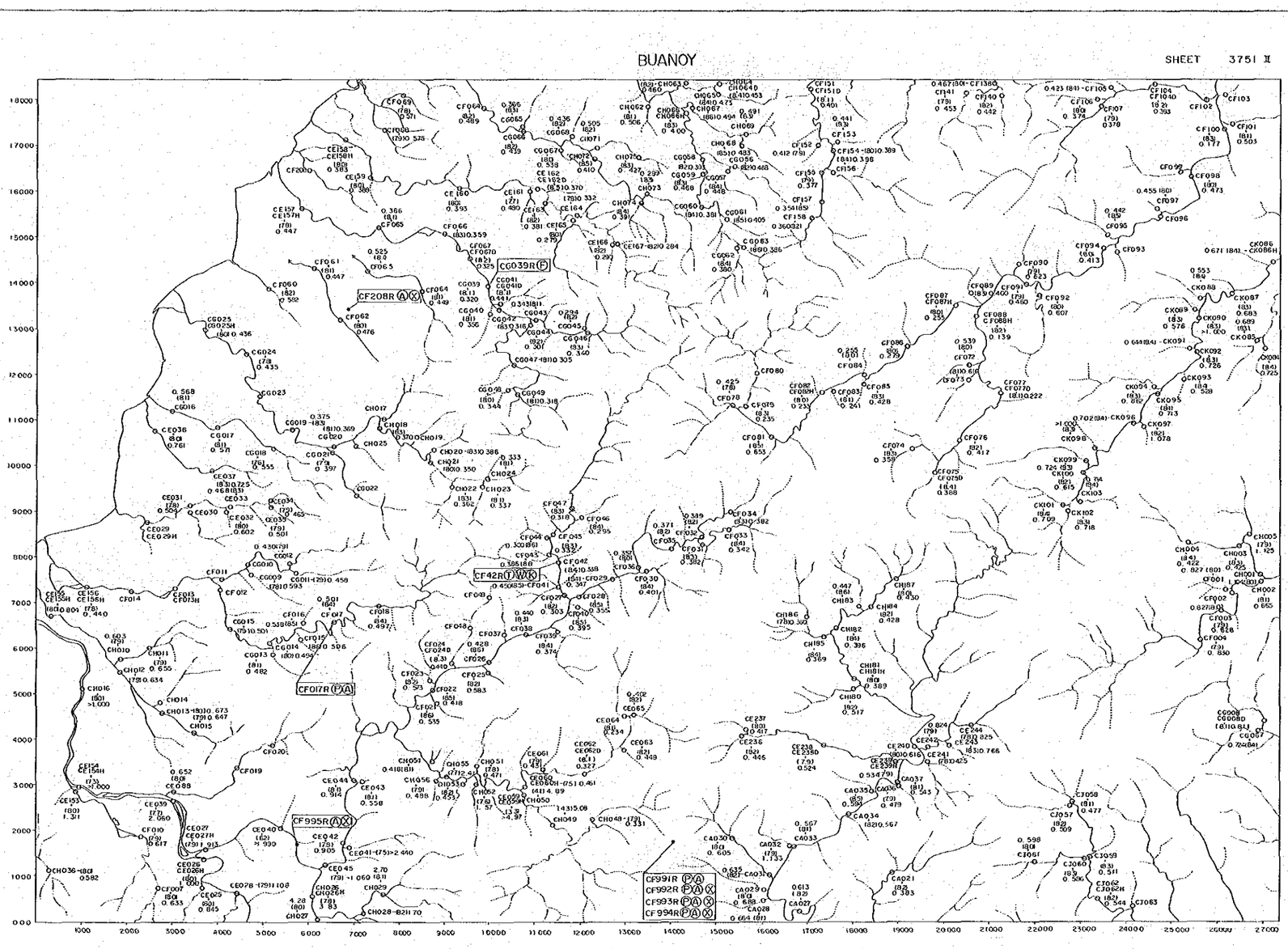
0.280 : Electric co

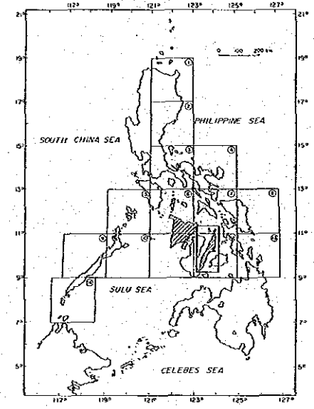
8-48 : Sampling p

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

SAMPLING POINT, pH VALUES AND ELECTRIC CONDUCTIVITY VALUES

CEBU AREA





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METAL MINING AGENCY OF JAPAN
Feb. 1987

Scale 1 : 50,000

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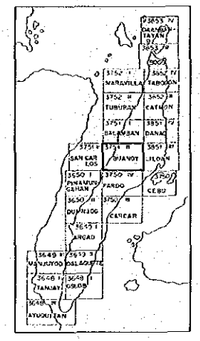


○ : Sampling point (Stream sediment, heavy mineral)

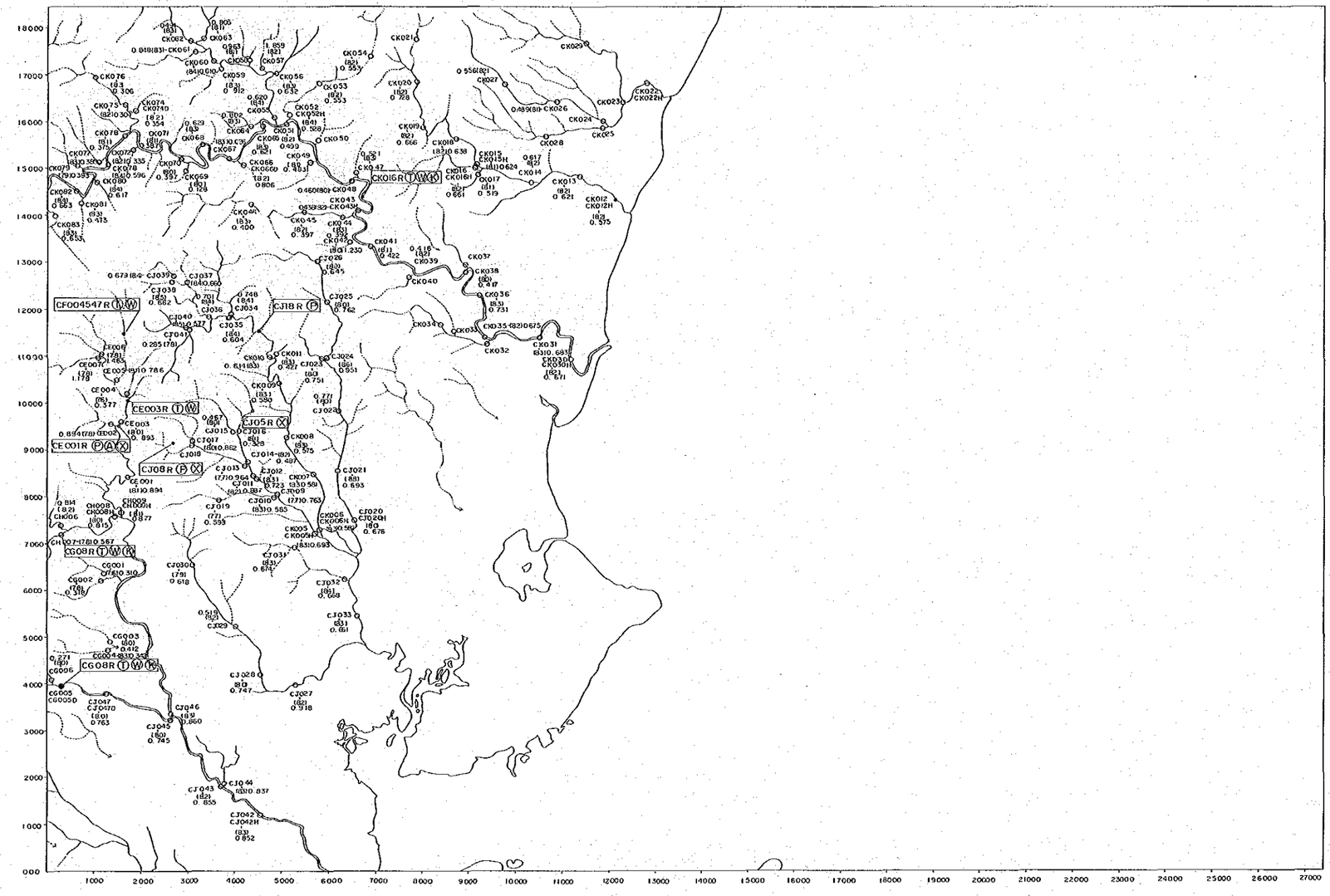
(7.0) : pH

0.280 : Electric conductivity (μs/cm)

B-48 : Sampling point (for laboratory work)

LILOAN

SHEET 3851 III



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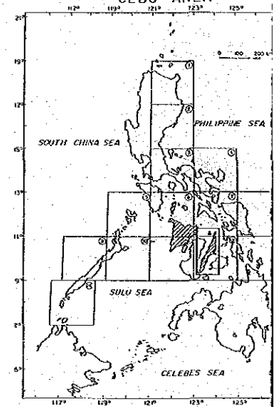
THE MINERAL EXPLORATION
– MINERAL DEPOSITS AND TECTONICS O
CONTRASTING GEOLOGIC ENVIRONM
IN
THE REPUBLIC OF THE PHILIPPIN
PHASE III

SAMPLING POINT, pH VALUE
ELECTRIC CONDUCTIVITY VA

CEBU AREA



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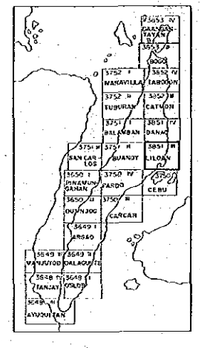
METAL MINING AGENCY OF JAP

Feb. 1987

Scale 1 : 50,000

0 2

LEGEND



○ : Sampling point

(7.0) : pH

0.280 : Electric condu

B-48 : Sampling point