

figure 3, Data sheet	t for Mineral Prospects(I)	. (3				- - 	
Survey area	Palawan III (Puerto)		Mineral Prospects No.	Atlas Mine No.1	ne No.1		
* Locality	1,50,000 - Bobosawen Topografic 26481 map No.	X * Coodinates	3 17,500	y * Coodinates l	14950 Altitud		* (ii) O8
* Survey date	Feb. 4 1986	Surveler	Shida,	, Nozawa et.al.			
Gomoiling (file No.)		Owner of mining right		Atlas Mining Co. (ACMDC)	DC)		
Metallogenic province		Type of O Deposits	re Float	Chromite Deposit	Country rock Ore Deposits	of * Laterite Soil	te Soil
One mineral	by field observation.*		by micro-scope		by x-Ray dif	diffraction	
Assemblage	Chromite						~
Gangue mineral Assemblage	by field observation Serpentine, Chlorite		by micro-scope		by x-Ray dif	difraction	
Alternation mineral	by field observation* Serpentinization and Chloritization		by micro-scope		by x-Ray diff	fraction	
Consination of country rocks	Ultramafic Rocks						

Figure 3, Data sheet for Mineral Frospects (II)

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Other Method		up up isbl	=	£	nd n ird ore	
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Age Determination	Investigation of Fossils					Other specially Mentions
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Figure 3, Data sheet for Mineral Prospects (II)

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Age Determination	E	K- Ar Method				. •		Other Method		· .					
Investigation of Fossils	ខ្ម	Radioraria			Nanno- Plankton		-			Other Fossils	<u>s</u>				i
Spot Investiga-	Rga −	Necessity follow up vey is hig	 	Necessity 110w up s high	y of fo- survey is	O	Possibi follow is reli	sibility of low up survey reliable	e	Necessity llow up su low	y of fo- survey is	臼	Follow up needless	survey	so rd
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Appendix

figure 3, Data shee	sheet for Mineral Prospects(I)	(:	,	•				
Survey	Palawan III (Puerto)	o) Miner	Prospects	Boyo Mine No.3	No.3			
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* Locality	1/50,000 Totobaen Topografic 2649II map No.	X * Coodinates	26,000	y * Coodinates	2,750 &	Altituà	320	* (E)
Survey date	Feb. 17, '86.	Surveier	Shida, No	Nozawa et, al,				-
Compiling date (file No.)		Owner of mining right	CAMUS Engineering	ineering Co. (not declared	red)		
Metallogenic province		Type of Ore Deposits	Massive Chr	Chromite Deposit	Country rock of Ore Deposits	*	Feridotite a	and
One mineral Assemblage	by field observation.* Chromite	r A	micro-scope		by x-Ray o	diffraction	c.	
Gangue mineral Assemblage	by field observation. Serpentine Chlorite	AQ	nicro-scope		by x-Ray o	diffraction	g c	
Alternation mineral	by field observation* Serpentinization and Chhoritization	H KQ	micro-scope		by x-Ray o	diffraction	g.	
* Consination of country rocks	Ultramafic Rocks				!			

Figure 3, Data sheet for Mineral Prospects (II)

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		Follow up needless	EQ	EA .								
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Other Method		Possibility of follow up survey is reliable	#	=			ore not obs	information from BMG P			: : :-	
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	Nanno- Plankton	of fo-	D	ບ		'86 by 7	by land sli	r p e				
· · ·		Necessity of fo- llow up survey is high	=	#		. 10 to 25, '86 by 7 workers.	collapsed by land slide tocked about 25 tons.	according			•	
	a	of sur-B	д	m		ci	t/).				
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Age Determination	Investigation of Fossils	Spot Investiga-	Results of Geochemical & other analysis	Summerized Evaluation				Other specially	Mentions		•	•
Dete	Inve		spects					Other	.¥e.	· .		• !

Appendix

figure 3, Data sheet	t for Mineral Prospects(I)			
Survey		Mineral	1 Prospects	
area	Palawan IV (Narra)	o N		No.1 Romarao
Locality	1/50,000 N-1 26481 Topografic C-1 2648111 map No. C-2 264811	X * Coodinates	4,000 v * 27,300 Coodinates 400	1,300 Altitud 105 (m) 18,300 Altitud 520
Survey date	Feb. 16, '86.	* Surveyer	H. Takahashi J. Pelaganas	
Compiling (file No.)		Owner of mining right		
Metallogenic province		Type of Ore Deposits	N-1 Ni-Laterite C-1 Chromite C-2 Chromite	Country rock of Harzburgite Dre Deposits Harzburgite mass
One mineral Assemblage	by field observation.* N-1 Nickel laterite C-1 C-2 Chromite	by r	micro-scope	by x-Ray diffraction
Gangue mineral Assemblage	by field observation. N-1 C-1, C-2, Olivine	ı Aq	micro-scope	by x-Ray diffraction
Alternation mineral	by field observation* N-1 Lateritization C-1, C-2, Serpenitization	À _O	micro-scope	by x-Ray diffraction
* Consination of country rocks	C-1, C-2, Dunite and Harzburgite	l Harzburgite		

Figure 3, Data sheet for Mineral Prospects (II)

<u> </u>		, n			
		Follow up survey is needless	É	e e	maximum thickness of about 3 meters in several 2 km east of Barangay Catuagan and is found ody is exposed by site-cutting, and observed ending N45 E within a harzburgite mass. its ends. Itranges about 60 cm to 1.5 m thick and friable and is densely disseminated to 1.5 km NE of C-1, it occures as boulders. Also dehromite bodies overlain by laterite soil, w. The chlomite is of sparsely to densely district. The emplaced deposits is hosted by
		y of fo- survey is			ickness of about 3 mg f Barangay Catuagan sed by site-cutting. E within a harzburgi Itranges about 60 cm and is densely diss bodies overlain by 1 mite is of sparsely emplaced deposits is
	Other Fossils	up up	=	=	un thickness of ust of Barangay exposed by site N45E within a lable and is der NE of C-1, it oute bodies over chlomite is of The emplaced definitions.
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	_ <u></u>	4 4 A	Ą	4;	
Age Determination	Investigation of Fossils	Spot Investiga- tion	Results of Geochemical & other analysis	Summerized Evaluation	Other specially Mentions
Deter	Inves			Evaluat Ore Pro	Other Mer

figure 3, Data sheet	t for Mineral Prospects(I)		,			
Survey . area	Palav	Mineral Narra)	Prospects	No.2 Berong	60 u	
Locality	1/50,000 N-2 2648III Topografic N-3 2648II map No. C-3 2648II	X * Coodinates	25,500 2,400 000	v * Coodinates	9,100 13, 300 Altitud 11,400	280 * 120 (m) 540
Survey date	Teb. 14, '8	*86 Surveier	H.Takabashi U.Palaganas	shi		
Goggiling (file No.)		Owner of mining right				
Metallogenic province		Type of Ore Deposits	кт. , не С-5	Harzburgite Chromite	Country rock of *	N- , Harzbur- 5ite C-3 Dunite
One mineral	by field observation * sapro with Schile	그 다 한 V	micro-scope		by x-Ray diffrac	
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Gangue mineral	by field observation.	ш х̂q	micro-scope		by x-Ray diffraction	tion
Assemblage	C-3 Clivine	**************************************				
Alternation mineral	by field observation*	ш л̂а	micro-scope		by x-Ray diffraction	ion
Assemolage	C-3 Serpentine				:	
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Consination of						•
country rocks						

Figure 3, Data sheet for Mineral Prospects (II)

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	Age Determination	Investigation of Fossils		spects	Ore Pro	Other specially Mentions
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Appendix figure 3, Data shee	sheet for Mineral Prospects(I)	I)			-	
Survey area	Palawan IV (Narra)	Miner	al Prospects No.	No.3 Ibatong,	ong, Aramaywan	
* Locality	1/50,000 . Topografic 2648III map No.	X * Coodinates	9013100	∵ * Coodinates	118°10' Altitud	* (E) 024-054
Survey Aste	Feb. 15, '86.	Surve: er	A. Ma	Matos		
Gomuling (file No.)		Owner of mining right	Soriano	no Corp.		
Metallogenic province		Type of Ore Deposits	Ei-Laterit	بر ف	Country rock of or Ore Deposits	Harzburgite/ Dunite.
One mineral	by field observation.*	* 6011	micro-scope		by x-Ray diffrac	otion
Gangue mineral Assemblage	by field observation.	λ	micro-scope		by x-Ray diffraction	tion
Alternation mineral	by field observation*	λq	micro-scope		by x-Rey diffraction	tion
Consination of country rocks	Harzburgite, Dur	Dunite, Fyroxenite.	ر. د			

Figure 3, Data sheet for Mineral Prospects (II)

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figure 3, Data sheet	t for Mineral Prospects(L)			i		· · ·	
Survey	Palawan IV (Narra	Miner (al Prospects No.	No.4 Malasgao Prospect	sgao Prosi	ect	
* Locality	1/50,000 . Topografic 2648II map No.	X * Coodinates	16,000	y.* Coodinates	7,800	Altitud	\$20 (m)
Survey date	Feb. 5, '86.	Surveter	A. Matos	SO			
Gatailing (file No.)		Owner of mining right	Navairo	o & Ceruanan	a Surveying	й СО •	
Metallogenic province	:	Type of Ore Deposits	Ni-Laterite	erite	Country rock of Ore Deposits	sck of *	Harzburgite
One mineral	by field observation.* Fe-Ni rich red	by m	by micro-scope		by x-Ray	by x-Ray diffraction	uc
Gangue mineral Assemblage	by field observation.	ς γ	micro-scope		by x-Rey	diffraction	uc
Alternation mineral	by field observation*	E AQ	alcro-scope		by x-Ray	diffraction	uc
* Consination of country rocks	. Harsburgite an	anč minior Pyroxinite.	oxinite.				

Figure 5, Data sheet for Mineral Prospects (II)

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Age Determination	Investigation of Fossils	Spot Investiga- tion	Results of Geochemical & other analysis	Summerized Evaluation	Other specially	
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figure 3, Data sheet	t for Mineral Prospects(I)			
Survey area	Palawan IV (Marra	of of	Mineral Prospects No. No.5 Beth	Bethlehem
* Locality	1/50,000 . Topografic 2467I map No.	X * Coodinates	6,750 Coodinates	15,550 Altitud 410 (m)
Survey date	Jan. 29, 186.	* Surveier	H. Takahashi	
Compiling (file No.)		Owner of mining right	42	
Metallogenic province		Type of Ore Deposits	Ni-Laterite/ Chromite	Country rock of Harzburgite/ Ore Deposits Harzburgite/
One mineral Assemòlage	by field observation.* Ni-Fe rich red soil Chromite disseminated in dunite.		by micro-scope	by x-Ray diffraction
Gangue mineral Assemblage	by field observation.	λ,	micro-scope	by x-Ray diffraction
Alternation mineral Assemblage	by field observation*	AQ.	nicro-scope	by x-Ray diffraction
Conbination of country rocks	Harzburgite / D	Dunite		

Figure 3, Data sheet for Mineral Prospects (II)

Investigation Method Fossis	· · · · · · · · · · · · · · · · · · ·							<u> </u>	
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Method Radioraria Radioraria A follow up sur- B llow up to highest B high bigh and a stumed to have a concurring within the assumed to have a con		<u> </u>	m	<u>.</u>	Ü				
Method Radioraria Radioraria A follow up sur- B llow up to highest B high This laterite area co topography is the vic laterite which is to occurring within the assumed to have a con	`. '.	Nanno- Plankto	of fourwey i			rs 7 k ity is meximu nite. nuatio			•
K- Ar Redioraria Redioraria A follow up sur- B llow follow up sur- B llow This laterite area topography is the laterite which is occurring within t assumed to have a			ssity up s	* '	=	cove toin co so io cu			-
K-Ar Method Radioraria A follow up sur-B rey is highest B d " B This laterite topography is laterite which occurring with assumed to have			Nece 110w high			d 42			
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figure 3, Data shee	t for Minera	Data sheet for Mineral Prospects(I)	(1
Survey			Miner	Prospects		· · · · · ·
area	6. 18. 18.	Palawan IV (Narra)	ra) No.		No.6 Bethlehem West	
k Locality	1/50,000 Topografic map No.	12492	X * Coodinates	2,550 Coodinates	13800 Altitud	* (m) %
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Gampiling (file No.)		-	Owner of mining right			·
Metallogenic province			Type of Ore Deposits	Ni-Laterite	Country rock of * Ore Deposits Harzburgite	۳۰ د د
One mineral	by field ob	observation* Red soil	by m	micro-scope	by x-Ray diffraction	
Gangue mineral Assemblage	by field ob	observation.	л ус	micro-scope	by x-Ray diffraction	
Alternation mineral Assemblage	by field	observation*	n Kq	micro-scope	by x-Ray diffraction	
* Country rocks		Нагор	Harsburgite			

Figure 3, Data sheet for Mineral Prospects (II)

	Other Method	Other	y of Necessity of fo- Follow up survey is survey D llow up survey is E needless	ж Н	ξQ	of laterite is about 5m along test pit wall, not so widespread, still it is encouraging.		
		Nanno- Plankton	fo- Possibility of follow up survey is reliable	U	Ö	ween the Bethlehem ximum thickness o e in the area is n e rotential areas.		
		Na: Pla:	Necessity of llow up surve high	×	. 1.	s located between ted and the maximum erite exposure in the laterite rote		-
			ur-B est B	<u>м</u>	м	area is o rugge orugge orugge between		
	K- Ar Method	Radioraria	Necessity of follow up sur- vey is highest	=	5	This area is is also rugge Although late being between		•
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	Age Determination	Investigation of Fossils	Spot Investiga- tion	Results of Geochemical & other analysis	Summerized Evaluation		Other specially Mentions	
	Dete	Inve		ton for	Evaluat Ore Pro		Other	 Y.

3, Data sheet for Mineral Prospects(1)	Mineral Frospects No. 8 Clympic Mine	* 1/50,000	* Feb. 2nd, '86 Surveier H. Takahashi	Owner of mining right	Type of Ore Ni-laterite / saprolitabour Deposits Cromite	heral by field observation* by micro-scope by x-Ray diffraction In-laterite/ saurolite/ saurolite/ saurolite.	e mineral by field observation by micro-scope by x-Ray diffraction olage	by field observation* by micro-scope tion mineral olage	ation of Harzburgite ry rocks
Date	Survey	* Locality	Survey *	Gomeniing (file No.)	Metallogenis province	One mineral Assemblage	Gangue mineral Assemblage	Alternation mineral Assemblage	* Consination of country rocks

Figure 3, Data sheet for Mineral Prospects (II)

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Investigation of Fossils		Radioraria				Ne Pla	Nanno- Plankton						Other Fossils				• • • •	
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figure 3, Data sheet	t for Mineral Prospects(I)			
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Locality	1/50,000 Toyografic map No.	X * Coodinates	5,500 Y *	25,400 Altitud 400 (m)
Survey Sate	Feb. 4. 186.	Surveler	H. Takahashi	
Genailing (file No.)		Owner of mining right		
Wetallogenic province		Type of Ore Deposits	Ni- laterite Chromite dissemination	Country rock of ** Dre Deposits Harzburgite
One mineral	by field observation.* Red soil Chromite	Å.	micro-scope	by x-Ray diffraction
Gengue mineral Assemblage	by field observation.	à	micro-scope	by x-Ray diffraction
Alternation mineral Assemblage	by field observation*	Å Q	micro-scope	by x-Ray diffraction
Consination of country rocks	Harzburgite	t t		

Figure 3, Data sheet for Mineral Prospects (II)

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figure 3, Data sheet	t for Mineral	1 Prospects(I)					
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* Survey date	ਜ ਹਿੰ ਹੈ	b. 20, '86.	* Surveier	H	Fuchimoto		
Cataling (file No.)			Owner of mining right	4.3			
Metallogenic province			Type of Ore Deposits	*	Layered chromite	Country rock of Dre Deposits	Dunite
One mineral	by field observati	bservation.* Chrowite	κα	micro~scope	1	by x-Ray diffraction	tion
Cangue mineral Assemblage	by field obs	observation Serpentine, ce	by	by micro-scope		by x-Ray diffraction	tion
Alternation mineral Assemblage	by field o	observation* Serpentine	ζ _Q	micro-scope		by x-Ray diffraction	1. 0. 1.
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Figure 3, Data sheet for Mineral Prospects (II)

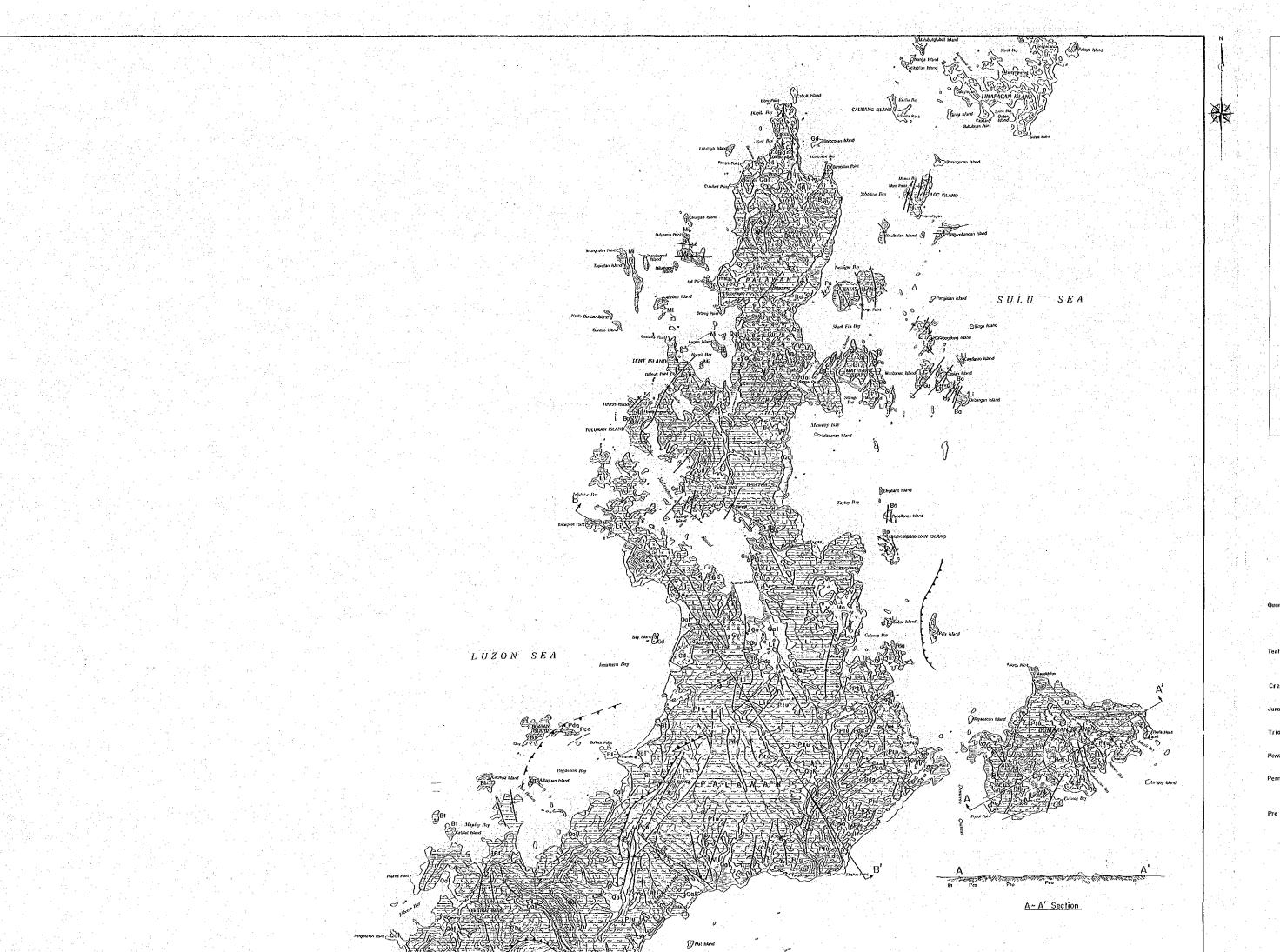
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Appendix

figure 3, Data sheet	t for Mineral Prospects(I)	(
:	Palawan IV (Narra	mine)	ral Prospects No.	12 Abu-Abu Rock Phosphate Prospect	Prospect
Locality *	1/50,000 Topografic map No.	X * Coodinates	118°06'24" y *	9°12' 57" Altitud	195 (m)
Survey acate	Feb.17, '86	* Surveier	A. Matos L. Morales A. Cacdac		
Compiling (file No.)		Owner of mining right			
Metallogenic province		Type of Ore Deposits	Carbonate hosted guano-derived phosphatic deposits	Country rock of Dre Deposits	Limestone
One mineral Assemblage	by field observation.* Apatite (?& Amorphous Fhosphate	p)	micro-scope	by x-Ray diffraction	
Cangue mineral Assemblage	by field observation. Limestone	λa	micro-scope	by x-Ray diffraction	
Alternation mineral	by field observation*	Ŕq	micro-scope	by x-Ray diffraction	
Assemblage					:
Consination of country rocks	Limestone, inter	interbedded sedir	sedimentary rocks.		

Figure 3, Data sheet for Mineral Prospects (II)

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IN

THE REPUBLIC OF THE
PHASE III

GEOLOGICAL MAP A PALAWAN ARE

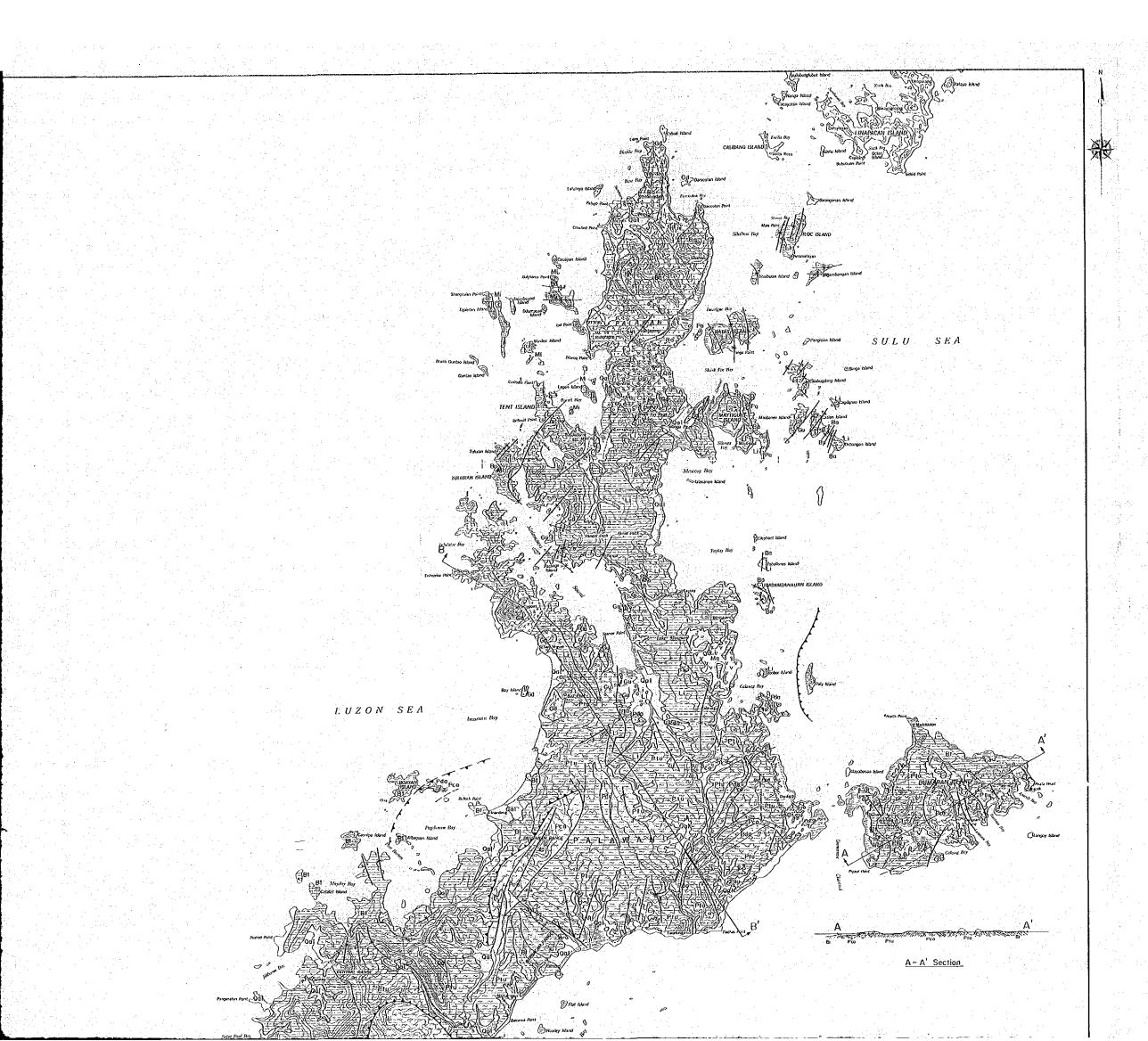


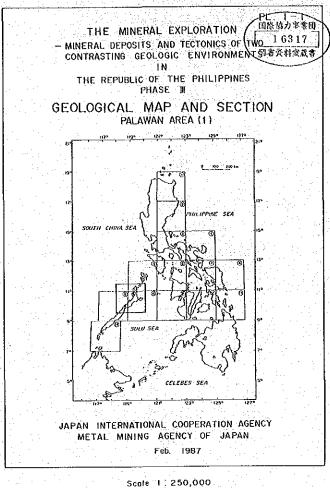
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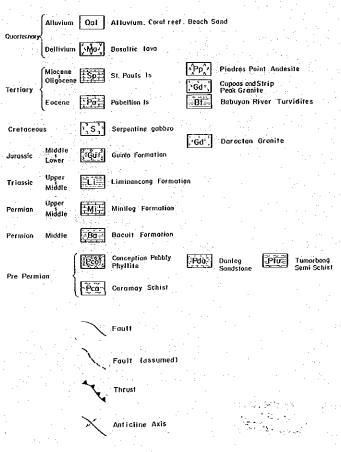
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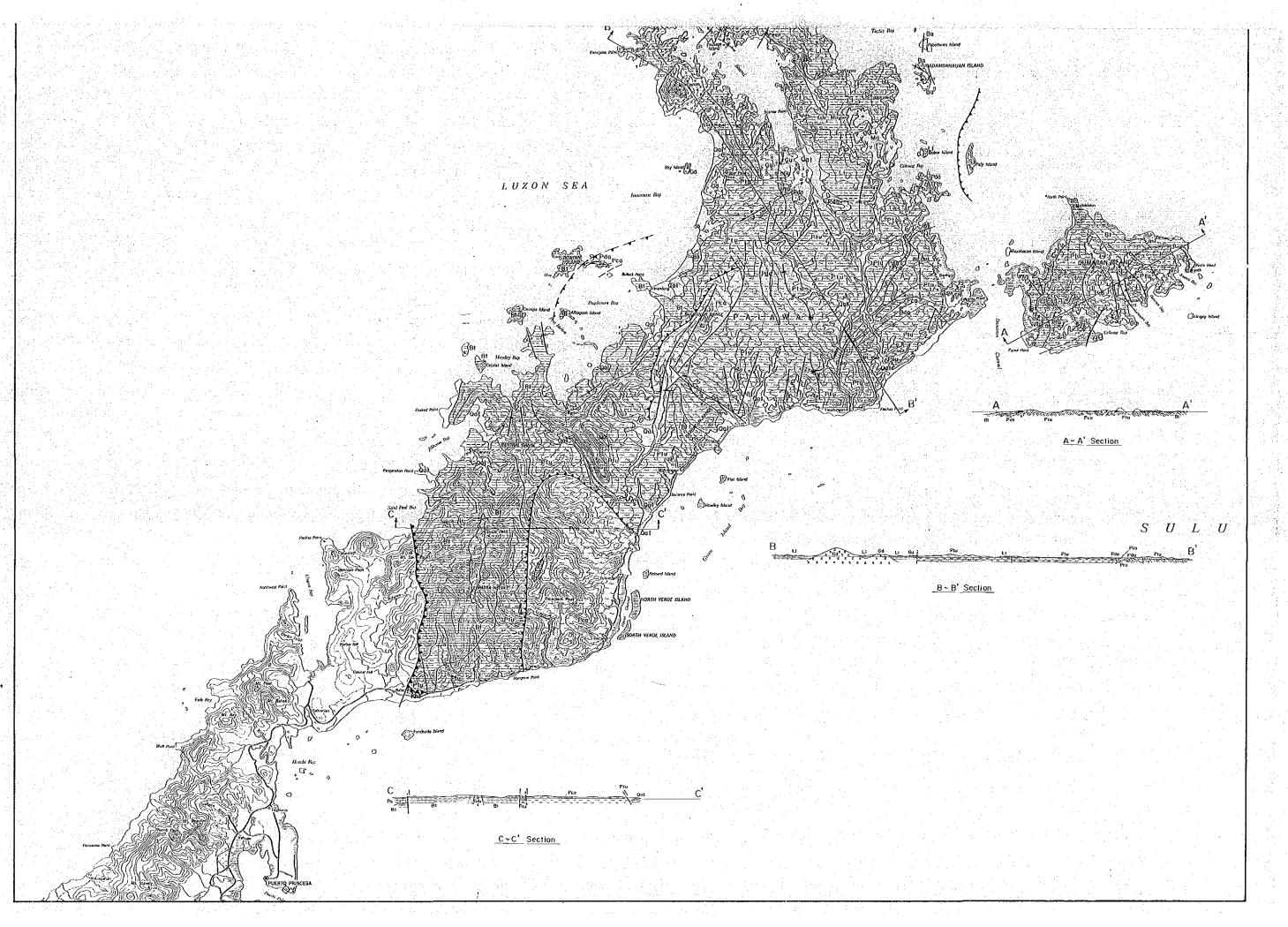
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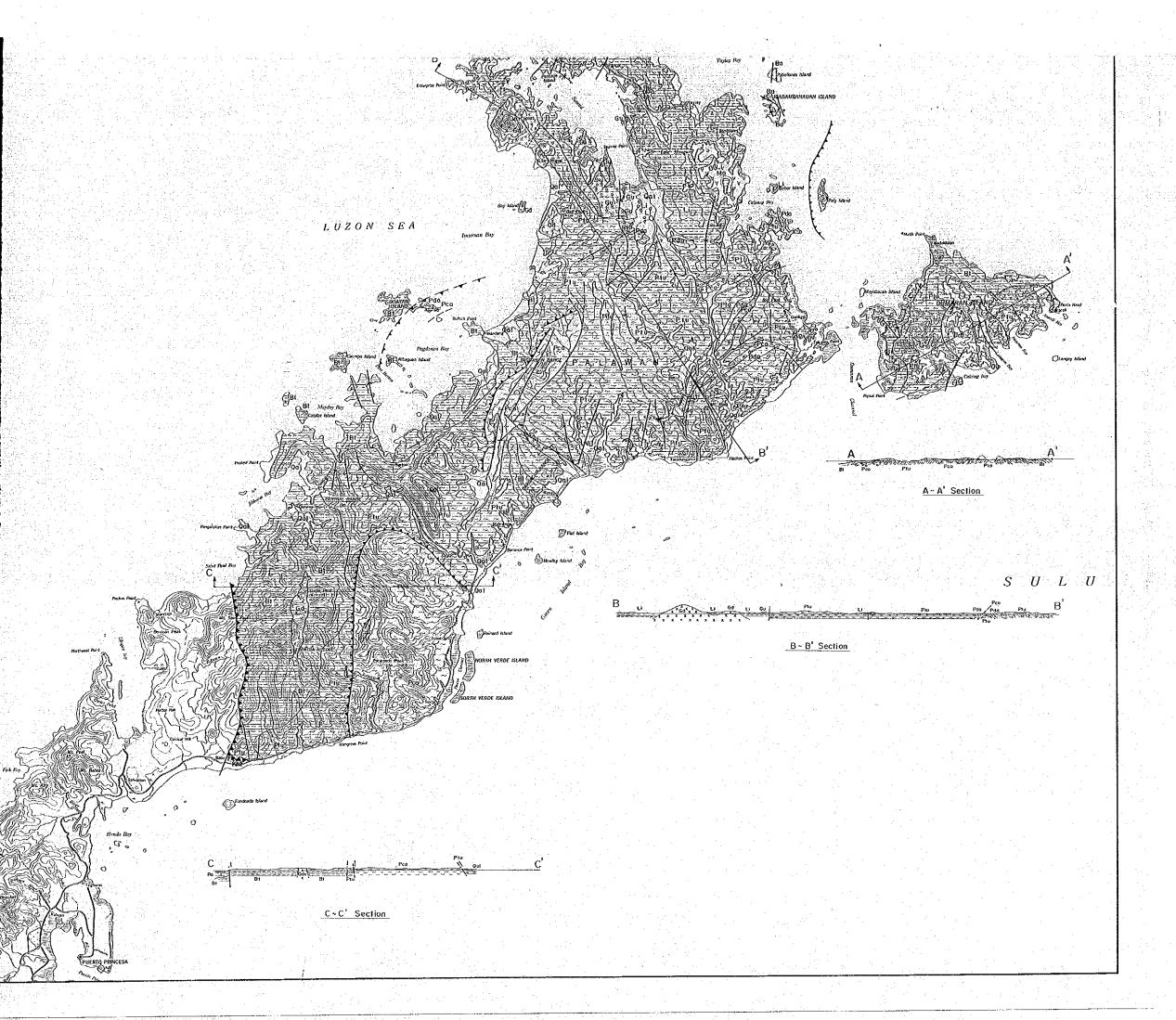
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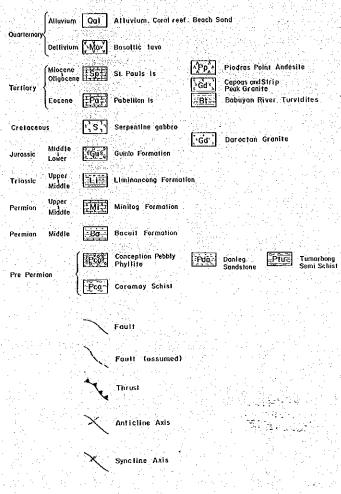
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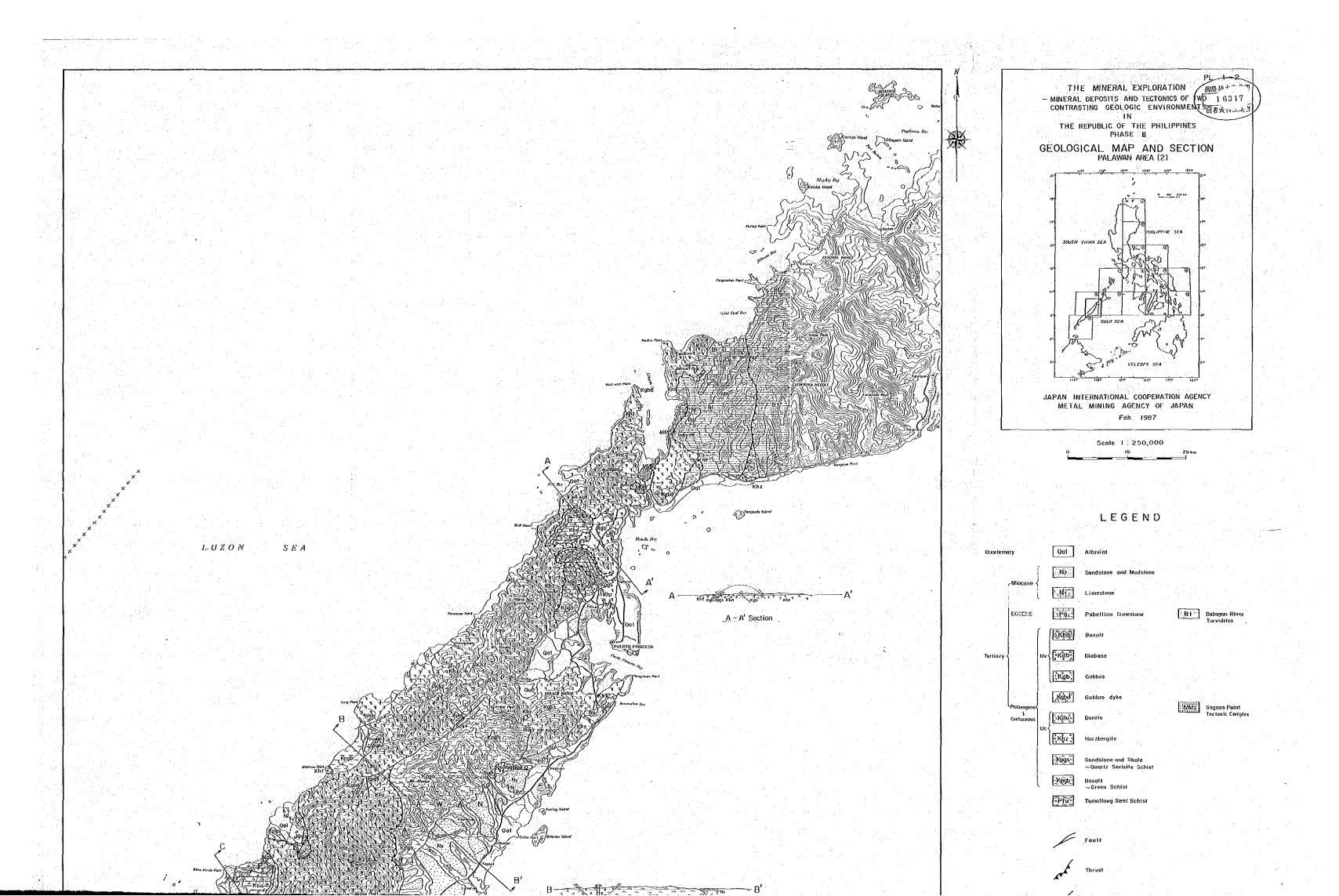
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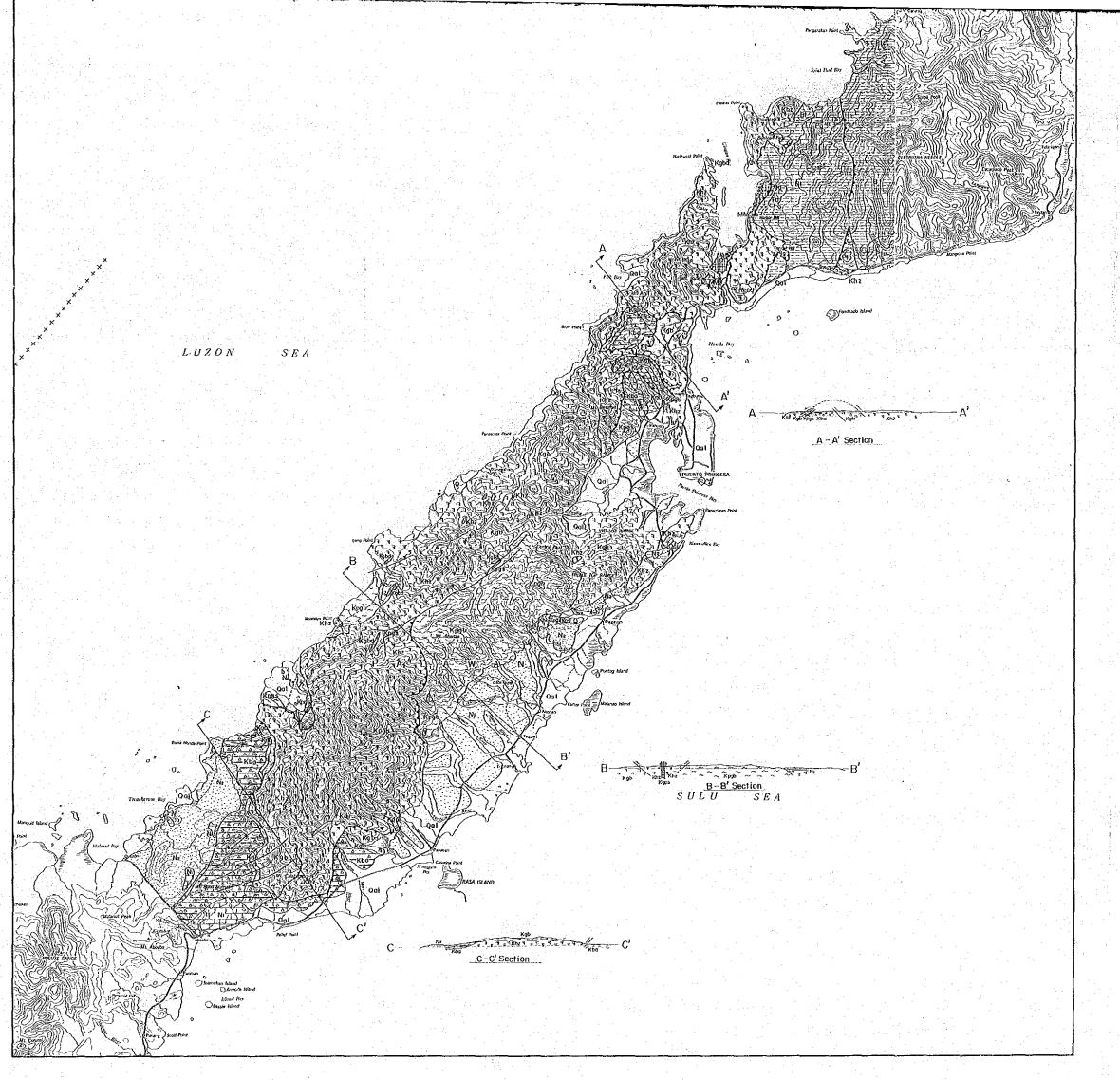
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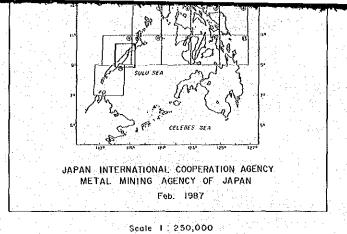
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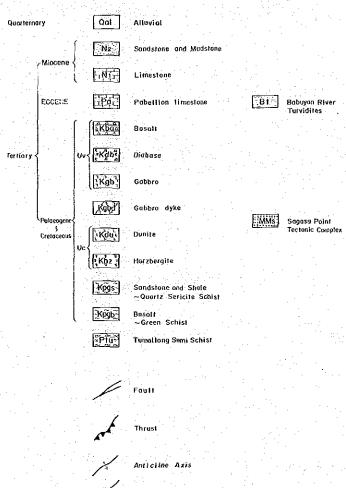


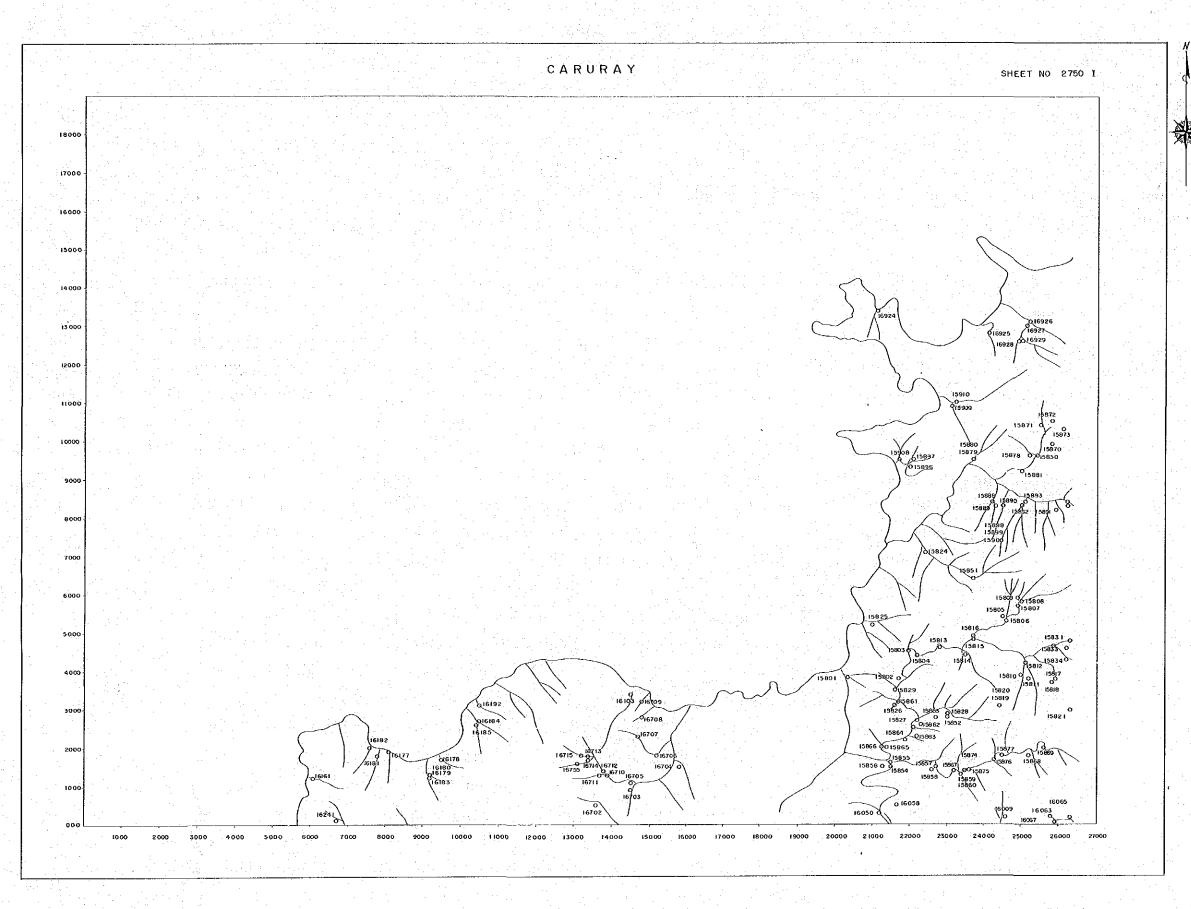


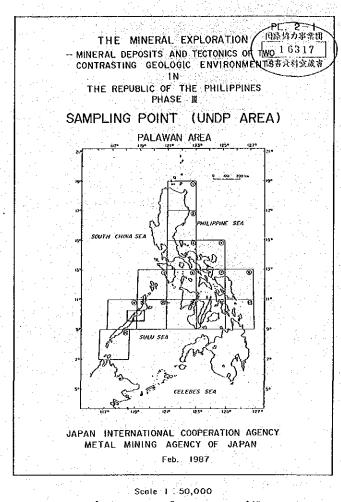


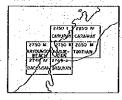












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THE MINERAL EXPLORATION

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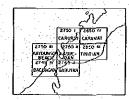
THE REPUBLIC OF THE PHILIPPINES PHASE III

SAMPLING POINT (UNDP AREA)

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PALAWAN ARE

LEGEND



O Sampling point (Stream sediment, heavy mineral)

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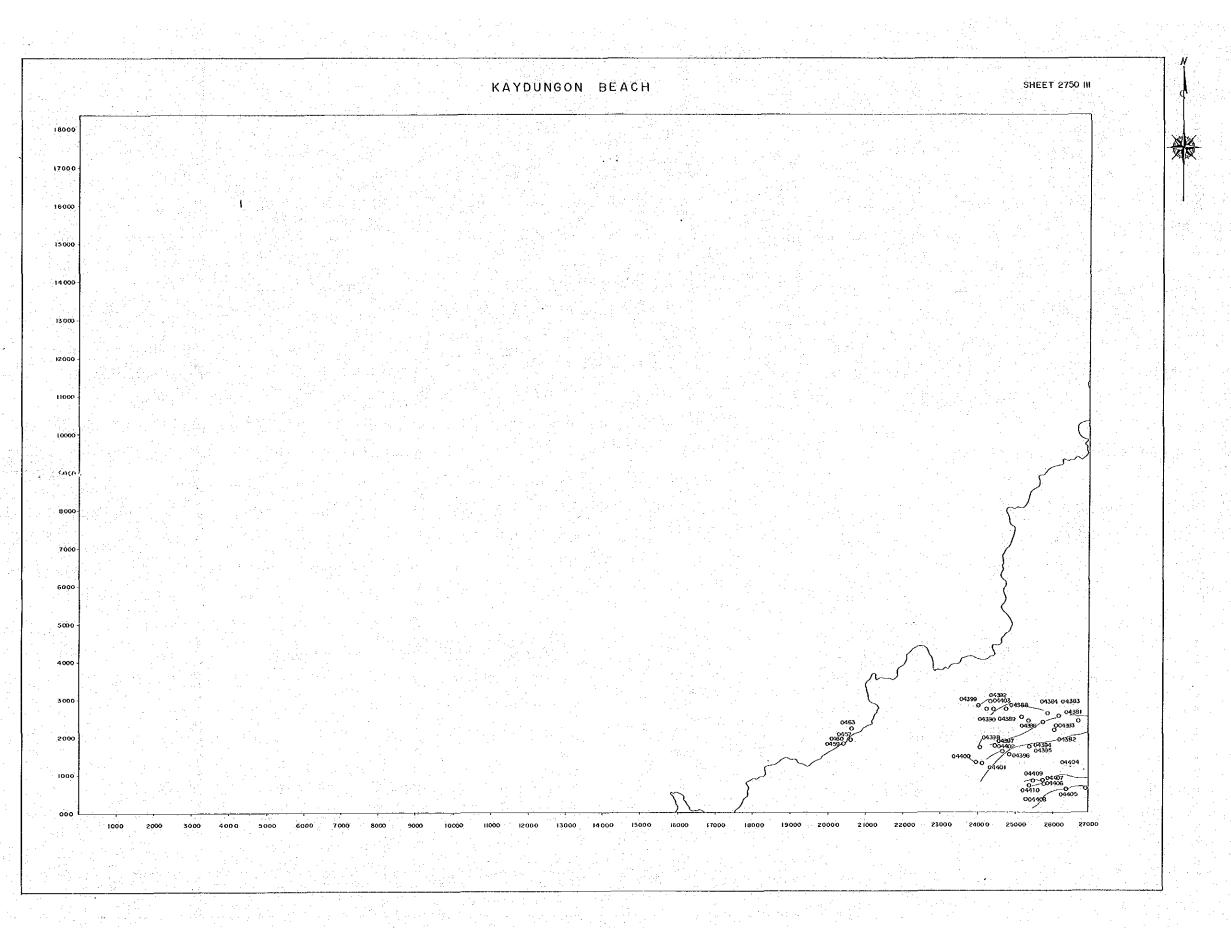
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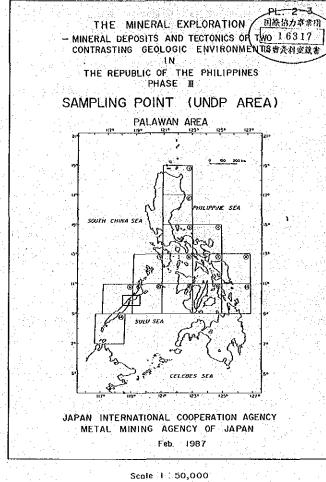
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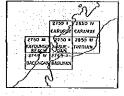
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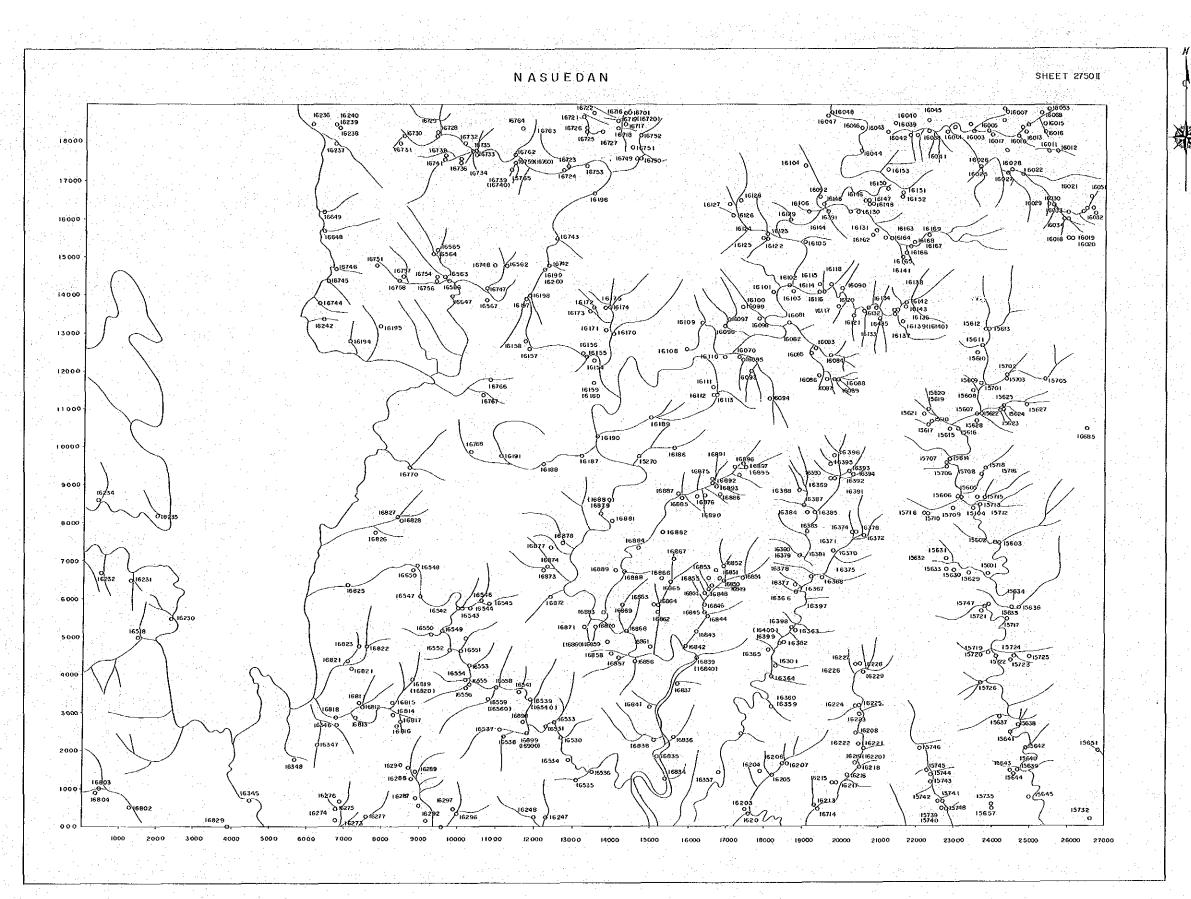
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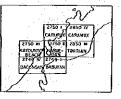




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LEGEND



O Sampling point (Stream sediment heavy mineral)

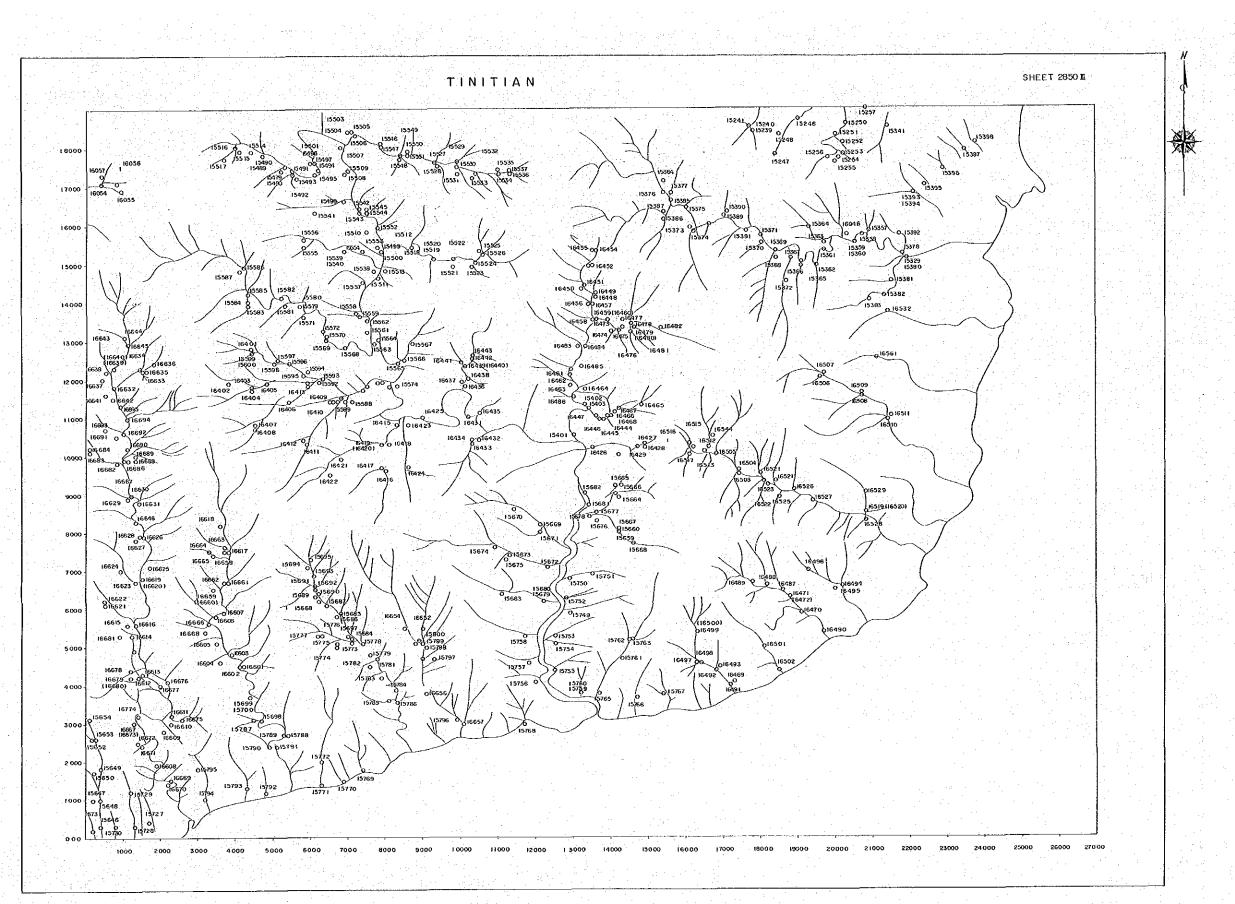
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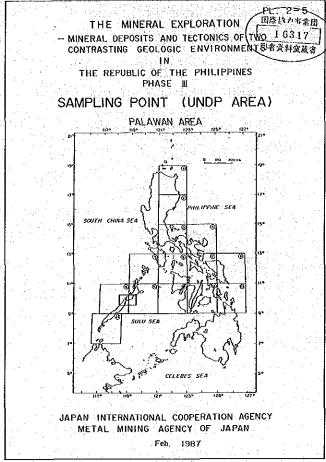
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3-48 . Sampling point (for laboratory work)

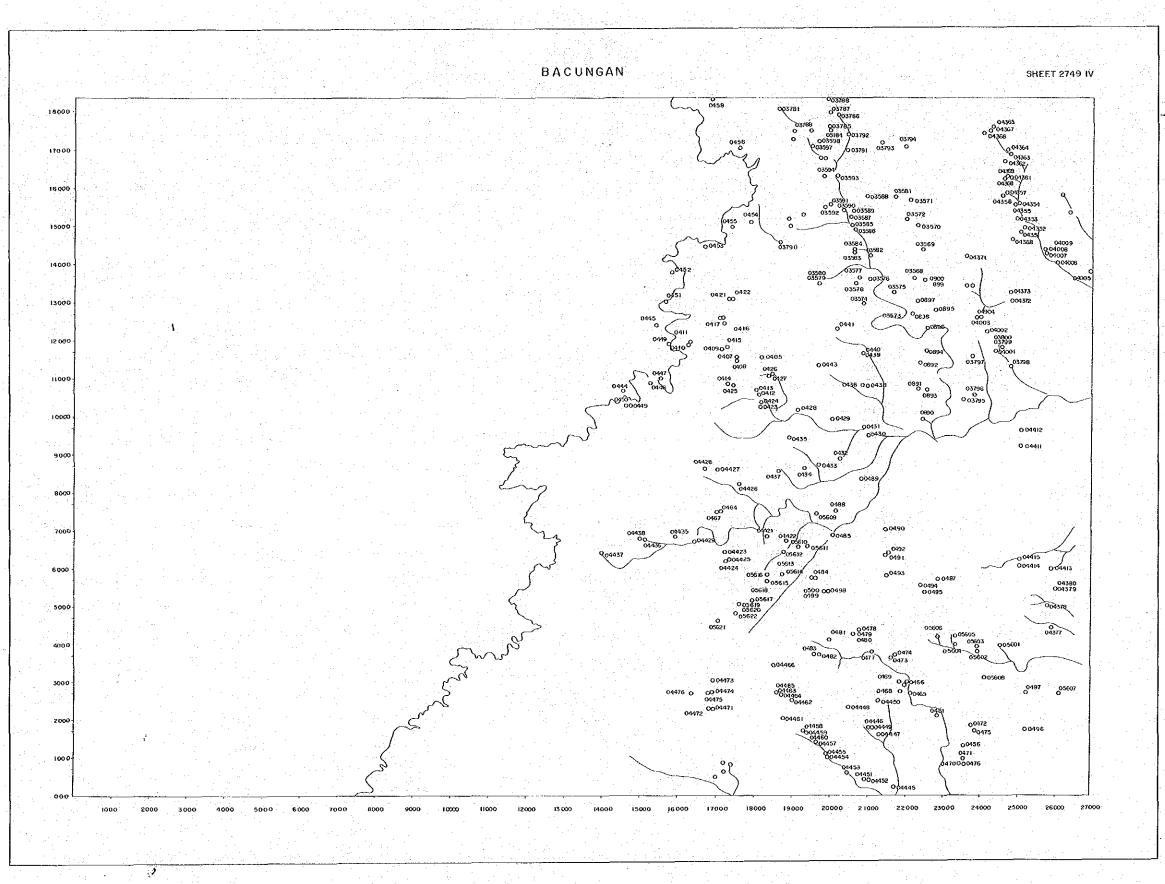
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THE MINERAL EXPLORATION

MINERAL DEPOSITS AND TECTONICS OF TWO 1 6317

CONTRASTING GEOLOGIC ENVIRONMENTS TO THE REPUBLIC OF THE PHILIPPINES

PHASE II

SAMPLING POINT (UNDP AREA)

PALAWAN AREA

PALAWAN AREA

PALAWAN AREA

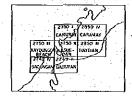
JAPAN INTERNATIONAL COOPERATION AGENCY

METAL MINING AGENCY OF JAPAN

Feb. 1987

Scale 1:50,000

LEGEND



O : Sampling point (Stream sediment heavy mineral)

(70) pl

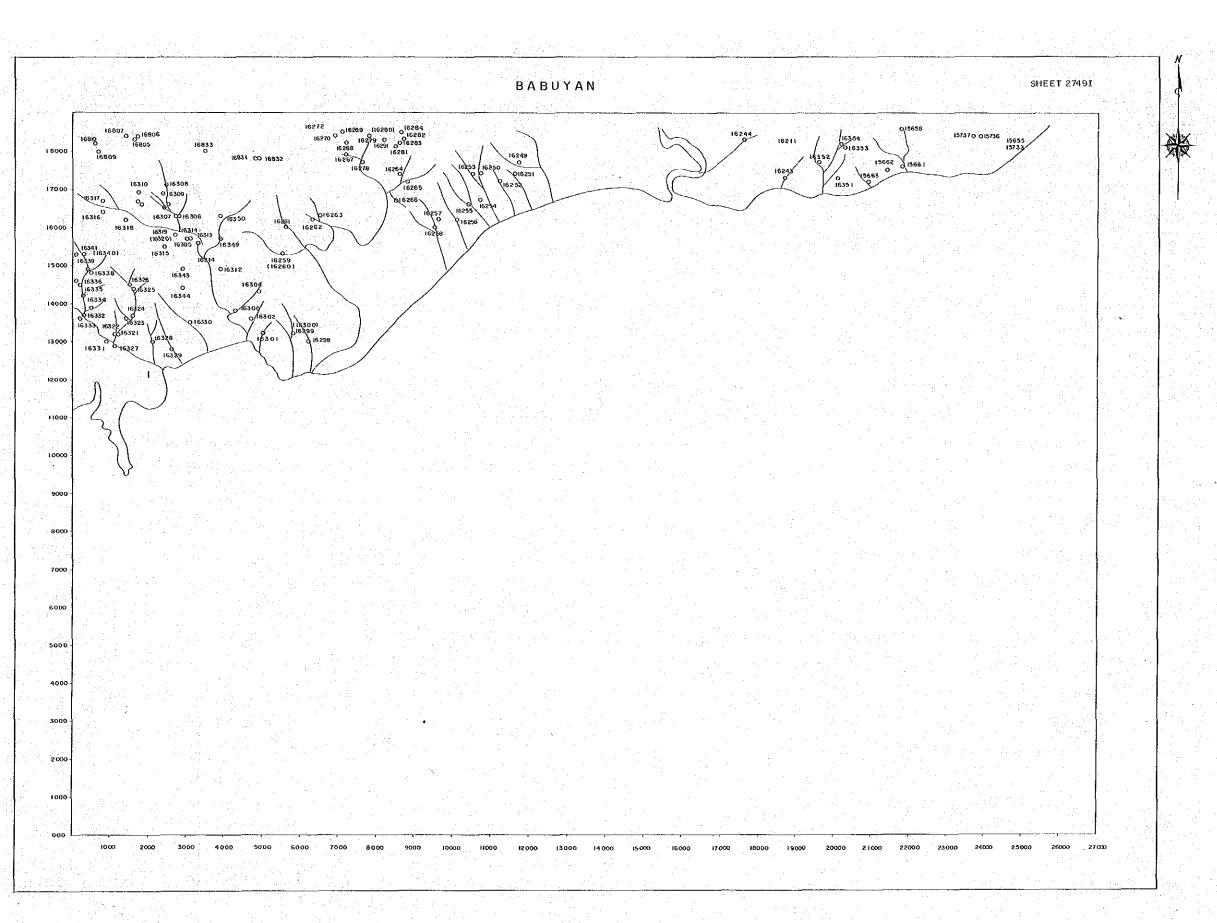
0. : Electric conductivity (ps/cr

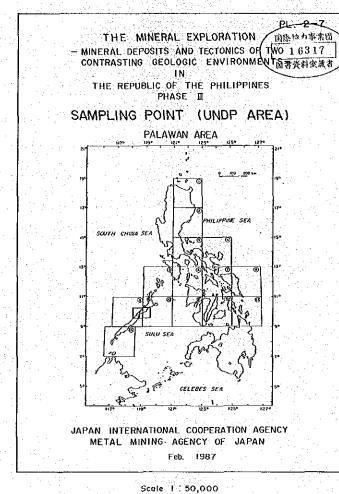
-48 : Sampling point (for laboratory work)

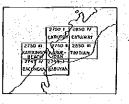
(X), X-Ray Analysis (W), Whole Rock Analy

D. A. S. Dadlas

(k): K-An Dating







O : Sampling point (Stream sediment, heavy mineral)

(70) : pH

280 : Electric conductivity (µs/cm)

Signature point (10) (doctory not

O, fills Section O, Possed Section

(y), x-ndy Andrysis (y), milote nock Allo

Ore Assay (K); K-An Datin