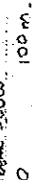


(3) CAPISSAYAN (W)

Outcrop of Ironstone interbeds with fine grain sandstone & shale. In some portion, it occurs as thin bed or nodules on the surface of outcrop, approximate length is 100 m.

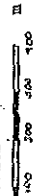
Buildings contained Siderite, Limonite, Hematite, Pyrite, Magnetite and Gaehtite secondary iron oxide are observed.



(4) CAPISSAYAN (E)



Two test pit observed in the area about 1 meter square, coal associated sandstone and shale can be seen in it, it seems to be initial stage of development.



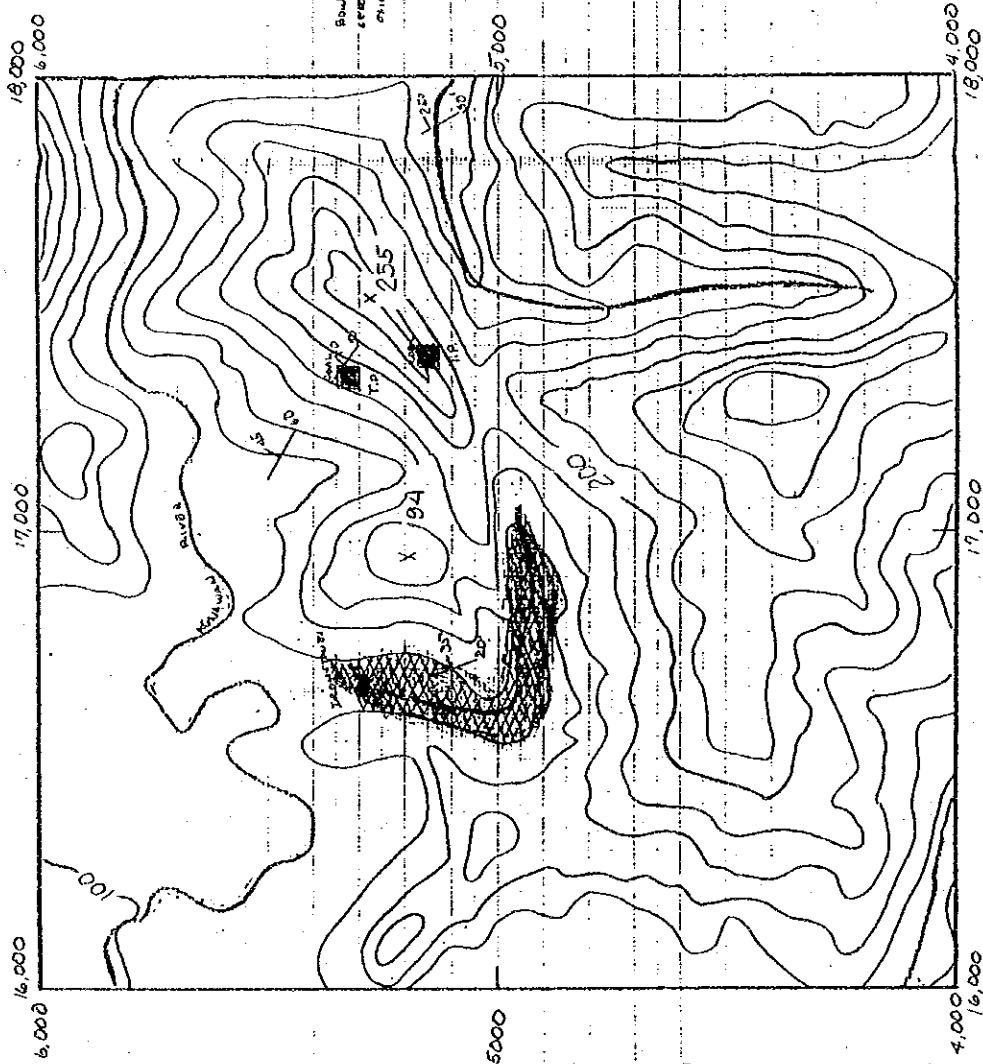
SCALE

- Contour line
- Stream
- ▨ Spot investigation area
- ▭ Dip & strike of beds
- Test pit of coal

3-4 CAPISSAYAN ROUTE MAP & SKETCH (Tuguegarao)

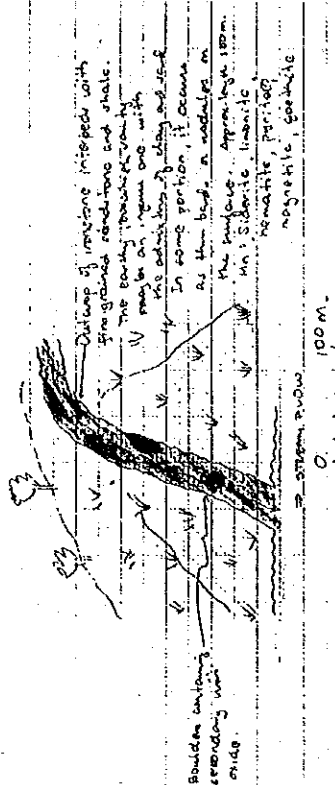
第4図 鉄微地調査ルートマップ及びスケッチ

(4-3) QUADRANGLE NO. 35742
 CARLSAYAN, SAMPAN, TUG. CARAYAN
 JUNE 27, 1952
 A. SILLON



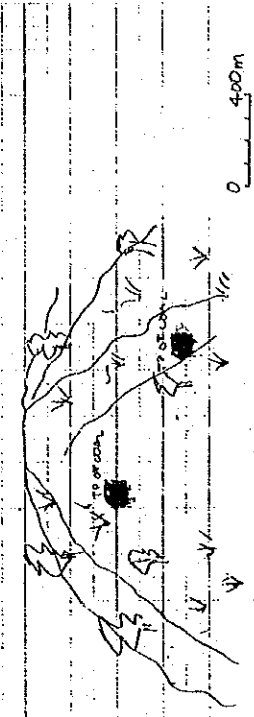
LEGEND
 - contour line
 - stream
 - BEST INVESTIGATION AREA
 - dip and strike of beds
 - test pit

(3) CARISSAYAN (W)



Distance of limestone interbed with
 fragmental sandstone and shale.
 The sandy part is probably
 a part of an igneous rock with
 the addition of clay and sand.
 In some portion, it occurs
 as thin bedded sandstone on
 the surface. Approximately 100m.
 W. Suberle limestone
 magnetic, granitic

(4) CARLSAYAN (E)



TWO test pits were observed in the area approximately the water size.
 One was found but can be considered to be in the early stage of
 development. It is either peat or lignite, the latter is preferable.
 It has brown to brown-black color and it is wet.
 It looks like large plant remains which are recognizable
 associated with sandstone and shale.

Appendix 11 Data Sheet of Mineral Prospect

Appendix

Figure 3. Data sheet for Mineral Prospects(I)

Survey area	CAS CHROME		Mineral Prospects			Altitude (m)
	WASAYAN I		No.	I (Palanan)		
Locality *	1/50,000 Topographic map No.	3469I	X * Coordinates	Y * Coordinates	9,400	390
Survey date *	May, 30, '86		Surveyer *	T. FUKASAWA, A. CABANTOG		
Compiling date (file No.)			Owner of mining right	CAS CHROME		
Metallogenic province			Type of Ore Deposits *	Layered	Country rock of Ore Deposits *	Dunite
One mineral assemblage	by field observation.* Chromite Garnierite (Minor)			by micro-scope	by x-Ray diffraction	
Change mineral Assemblage	by field observation.* Serpentine Calcite			by micro-scope	by x-Ray diffraction	
Alternation mineral Assemblage	by field observation.* Serpentine			by micro-scope	by x-Ray diffraction	
Combination of country rocks *	Pyroxene- Peridotite, Dunite					

Figure 3. Data sheet for Mineral Prospects (II)

Age Determination	K- Ar Methode	Other Methode	
Investigation of Fossils	Radiolaria	Nanno-Plankton	Other Fossils
	Necessity of follow up survey is highest	Necessity of follow up survey is high	Necessity of follow up survey is low
	Follow up survey is highest	Follow up survey is C	Follow up survey is E
Spot Investigation	A	B	C
Results of Geochemical & other analysis	A	B	C
Summarized Evaluation	A	B	C
Ore Prospects for Evaluation		Possibility of follow up survey is reliable	Follow up survey is E needless
		"	"
		"	"
Other specially Mentions	<p>This mine is the only operating mine in Palanan Area. Shipped chrome ore from 1983 totaling 9 shipping with 1,300 - 2,000 t/shipping. *</p> <p>Granular Chromite in laterite zone.</p> <p>Ore type ; Massive Chromite in bed rock zone.</p> <p>* Washing plant for ore in laterite zone.</p> <p>Production; 400 t conc./ month, Ore Grade; 48 % Cr₂O₃</p> <p>The chromite lense is relatively thin (20 - 30 cm) but massive chromite lense is 2 m in width and shows irregular shape.</p>		

Appendix

Figure 3, Data sheet for Mineral Prospects(L)

Survey area	CAS CHROME WASAYAN 2		Mineral Prospects No.		2 (Palanan)	
Locality *	1/50,000 Topographic map No.	3469I	X Coordinates	5,500	Y Coordinates	9,800 Altitud 405 (m)
Survey date *	May, 30, 1986		Surveyer *	T. FUKASAWA, A. CABANTOG		
Geological Data (file No.)			Owner of mining right	CAS CHROME		
Metallogenic province			Type of Ore Deposits	Layered	Country rock of Ore Deposits	Dunite
One mineral Assemblage	by field observation*	Chromite		by micro-scope	by x-Ray diffraction	
Gangue mineral Assemblage	by field observation*	Serpentine		by micro-scope	by x-Ray diffraction	
Alteration mineral Assemblage	by field observation*	Serpentine		by micro-scope	by x-Ray diffraction	
Composition of country rocks *	Pyroxene-Peridotite, Dunite					

Figure 3. Data sheet for Mineral Prospects (II)

Age Determination	K- Ar Methode	Other Methode	
Investigation of Fossils	Radioraria	Nanno-Plankton	Other Fossils
	Spot Investigation	Necessity of follow up survey is high	Necessity of follow up survey is low
	Results of Geochemical & other analysis	(C) follow up survey is reliable	Follow up survey is needless
Ore Prospects Evaluation for	A	B	D
	A	B	D
	A	B	D
Other specially Mentions	<p>Mine operation suspended due to the depletion of ore. No chromite lens was observed. The rock has been weathered to laterite soil almost all the area, and saprolite zone is limited to small area in the center of the pit.</p>		

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DIMAKAWAL		Mineral Prospects No.		3 (Palenan)		
	1/50,000 Topographic map No.	3469IV	X Coordinates	Y Coordinates	8,250	Altitud	820 (m)
Locality *	June, 8, '86 June, 10, '86		* Surveyer		T. FUKASAWA, S. BAPTISTA		
Survey date *			Owner of Mining right		Black Rock Mining Corp. Acoje Mining.		
Compiling data (file No.)			Type of Ore Deposits		Strata bound and Vein type Country rock of Ore Deposits		
Metallogenic province			by field observation.* Mn; Primary Manganese Ore Secondary Manganese Ore Cu; Chalcopyrite, Bounite, Azurite, Malacite and Pyrite		by x-Ray diffraction		
One mineral Assemblage	by field observation.* Quartz, Hematite, Goethite and Limonite.		by micro-scope		by x-Ray diffraction		
Gangue mineral Assemblage	by field observation.* Silicification, Pyritization		by micro-scope		by x-Ray diffraction		
Alternation mineral Assemblage	Tuffaceous sediment at the top of the deposit.						
Combination of country rocks							

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode								
Investigation of Fossils		Radiolaria		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	Ne cessity 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		<p>This type deposit resembles that of the Cyprus type of copper deposit, Because of its close association with pillow basalt flows, but they are covered by tuffaceous sediment and accompanied by quartz veins. Some quartz veins are known and some of them are auriferous. Quartz vein has been mined for gold (which precipitate along the vein cracks.)</p> <p>Three of the vein systems are observed in upper levels.</p> <ol style="list-style-type: none"> 1. N10E, 90° dip; Width 1 m 2 N40E 50°S dip; " 2 m 3 N10E 90° dip; " 1 m <p>It is assumed that lower level is mainly copper zone with spot of primary manganese mineral and upper level is secondary manganese zone.</p>										

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DINAPIQUI RIVER Upstream		Mineral Prospects No.		4 (Palanan)	
	1/50,000 Topographic map No.	3469IV	X Coordinates	Y Coordinates	Altitud	(m) 640
Locality						
Survey date	June, 9, '86		Surveier	T. FUKASAWA		
Compiling data (file No.)			Owner of mining right			
Metalogenic province			Type of Ore Deposits	Vein type	Country rock of Ore Deposits	Basalt
One mineral Assemblage	by field observation.* Pyrite, Chalcopyrite			by micro-scope	by x-Ray diffraction	
Congue mineral Assemblage	by field observation.* Quartz			by micro-scope	by x-Ray diffraction	
Alternation mineral Assemblage	by field observation.*			by micro-scope	by x-Ray diffraction	
Combination of country rocks		Basalt				

Figure 3. Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode								
Investigation of Fossils	Radiolaria	Necessity of follow up survey is highest	Necessity of follow up survey is high	Nanno-Plankton	Possibility of follow up survey is reliable	Other Fossils	Follow up survey is needless					
								Spot Investigation	B	C	(D) low	E
Evaluation for Ore Prospects	Radiolaria	Necessity of follow up survey is highest	Necessity of follow up survey is high	Nanno-Plankton	Possibility of follow up survey is reliable	Other Fossils	Follow up survey is needless					
								Results of Geochemical & other analysis	B	C	D	E
Other specially Mentions	Radiolaria	Necessity of follow up survey is highest	Necessity of follow up survey is high	Nanno-Plankton	Possibility of follow up survey is reliable	Other Fossils	Follow up survey is needless					
								Summerized Evaluation	B	C	D	E

These area has several quartz vein systems near the junction. But these veins are narrow and two of these are barren quartz vein. The other one has a structure of banding of ore minerals.

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DIMATANO Upstream Tributary		Mineral Prospects No.		5 (Palanan)		
	1/50,000 Topographic map No.	3469 I	X * Coordinates	500	Y * Coordinates	16250	Altitude
Locality *							490 (m) *
Survey date *	June 3, '86		Surveyer *	T, Fukasawa			
Compiling date (file No.)			Owner of mining right *				
Metallogenic province			Type of Ore Deposits *	Vein type	Country rock of Ore Deposits	Andesite	
One mineral assemblage	by field observation*	Pyrite		by micro-scope	by x-Ray diffraction		
Gangue mineral assemblage	by field observation*	Quartz		by micro-scope	by x-Ray diffraction		
Alteration mineral assemblage	by field observation*			by micro-scope	by x-Ray diffraction		
Combination of country rocks *		Andesite					

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 Sumnerized Evaluation	A	"	B	"	C	"	D	"	E	"
		A	"	B	"	C	"	(b)	"	E	"
<p>This veins are a fracture filling vein systems. Quartz is main constituent and is not clear.</p>											
<p>Other specially Mentions</p>											

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DISAWIT (KANAIKANG POINT)		Mineral Prospects No.			Altitude (m)
	1/50,000 Topographic map No.	X Coordinates	Y Coordinates	6 (Palanan)	3	
Locality*	3470I	23,500	16,700			
Survey date*	June, 21, '86	Surveyer * T. FUKASAWA				
Compiling date (file No.)		Owner of mining right				
Metallogenic province		Type of Ore Deposits	Layered	Country rock of Ore Deposits		Pillow basalt and chert
One mineral Assemblage	by field observation* Manganese Ore (Massive sulphide)	by micro-scope		by x-Ray diffraction		
Gangue mineral Assemblage	by field observation* Silica	by micro-scope		by x-Ray diffraction		
Alternation mineral Assemblage	by field observation*	by micro-scope		by x-Ray diffraction		
Combination of country rocks*	Pillow basalt, Manganiferous chert					

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode	Other Methode	
Investigation of Fossils		Radioraria	Nanno-Plankton	Other Fossils
Ore Prospects for Evaluation	Spot Investigation	Necessity of follow up survey is highest	Necessity of follow up survey is high	Follow up survey is needless
	Results of Geochemical & other analysis	A	B	Follow up survey is needless
	Summarized Evaluation	A	B	Follow up survey is needless
Other specially Mentions		"	"	"
		"	"	"
		"	"	"

This showing is located in the boundary of basalt and manganese chert.
 Area 1 Sulphide minerals are said to be hosted by manganese silicified basalt, but due to the former test sampling, no sulphide minerals can be seen with the thick covering of collapsed surface materials.
 Area 2. Manganese ore interbedded with manganese chert.

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	KANAIPANG HILL		Mineral Prospects No.		7 (Palanan)			
Locality *	1/50,000 Topographic map No.	54701	X * Coordinates	21,600	Y * Coordinates	14,300	Altitud (m)	100
Survey date *	June, 21, '86		Surveyer *	T. FUKASAWA				
Geological data (file No.)			Owner of mining right					
Metallogenic province			Type of Ore Deposits *	Layered		Country rock of Ore Deposits	Tuff	
One mineral assemblage	by field observation.*	Manganese Ore		by micro-scope		by x-Ray diffraction		
Genue mineral assemblage	by field observation.*			by micro-scope		by x-Ray diffraction		
Alternation mineral assemblage	by field observation.*			by micro-scope		by x-Ray diffraction		
Combination of country rocks *	Silicified tuff, Basalt							

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode									
Investigation of Fossils	Radiolaria	Necessity of follow up survey is highest	Necessity of follow up survey is high	Nanno-Plankton	Possibility of follow up survey (D) is reliable	Other Fossils	Follow up survey is needless						
								Spot Investigation	A	B	C	D	E
Ore Prospects Evaluation for		"	"	"	"	"	"						
Other specially Mentions		<p>This showing is a small hill up to 3 m high in flat area. Because of the vegetation, no direct contact zone with the country rock can be seen. By the areal survey, the country rock is expected silicified tuffaceous sediment overlying basalt flows.</p>											

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DIKAPISAN		Mineral Prospects No.		8 (Palanan)				
	Locality *	1/50,000 Topographic map No.	34701	X * Coordinates	20,500	Y * Coordinates	4,400	Altitud	140 (m) *
Survey date *	June, 29, '86			Surveyer *	T. FUKASAWA, T. KOSEKI				
Geological data (file No.)				Owner of mining right					
Metallogenic province				Type of Ore Deposits	Layered		Country rock of Ore Deposits *		
One mineral Assemblage		by field observation,*	Some weakly magnetic Minerals		by micro-scope		by x-Ray diffraction		
Gangue mineral Assemblage		by field observation,*	Serpentine		by micro-scope		by x-Ray diffraction		
Alteration mineral Assemblage		by field observation*	Serpentine		by micro-scope		by x-Ray diffraction		
Combination of country rocks *	Dunite, Pyroxene-peridotite								

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode	Other Methode										
Investigation of Fossils	Radiolaria	Necessity of follow up survey is highest	Necessity of follow up survey is high	Nanno-Plankton	Possibility of follow up survey is reliable	Necessity of follow up survey is low	Other Fossils	Follow up survey is E need less					
									A	B	C	D	E
									Spot Investigation	Results of Geochemical & other analysis	Summerized Evaluation		
Evaluation for Ore Prospects	A	"	B	"	C	"	D	"					
									A	B	C	D	E
									Other specially Mentions	<p>This outcrop is discovered in dunite. Dunite is minor part of this ultramafic complex, compared with the major part of Pyroxene-peridotite in this creek.</p>			

Appendix

figure 3, Data sheet for Mineral Prospects(I)

Survey area	DİKADIAOAN		Mineral Prospects No.		9 (PALANAN)			
* Locality	1/50,000 Topographic map No.	347111	* X Coordinates	21,100	* Y Coordinates	100	* Altitud (m)	50
* Survey date	July, 3, '86.		* Surveier	T. Koseki., F. G. Sajona				
Compiling data (file No.)	Owner of mining right							
Metalogenic province			* Type of Ore Deposits	Strata Bound Manganese	Country rock of Ore Deposits	Cherty Sediment		
One mineral Assemblage	by field observootion.* Undiffereciated Mn Mineral		by micro-scope					
Gangue mineral Assemblage	by field observootion.* Clay, Chert		by micro-scope					
Alternation mineral Assemblage	by field observootion.* Cherty Sediment		by micro-scope					
Combination of country rocks	*							

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode							
Investigation of Fossils		Radiolaria		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	Ne cessity of follow up survey is low	E	Follow up survey is needless
	Results of Geochemical & other analysis	A	"	B	"	C	"	D	"	E	"
	Summarized Evaluation	A	"	B	"	C	"	D	"	E	"
<p>Mn wad alternates with highly fracture cherty sediments , chert is usually manganiferous with the quantity of chert from trace to abundant. Fracture in chert are sometimes defines by solutions with no significant effect.</p>											
<p>Other specially Mentions</p>											

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	GIMED		Mineral Prospects No.			10 (Palanan)		
	1/50,000 Topographic map No.	3470I	X Coordinates	Y Coordinates	10300	Altitude	200 (m)	*
Locality *								
Survey date *	July, 6, '86.		Surveier *	T. Koseki, F. G. Sajona				
Compiling data (file No.)			Owner of mining right					
Metallogenic province			Type of Ore Deposits *	Silicified Zone	Country rock of Ore Deposits		Andesite (Chert?)	
One mineral	by field observation.*				by x-Ray diffraction			
Assemblage	Fyrite							
Gargue mineral	by field observation.*				by x-Ray diffraction			
Assemblage	Quartz, Chlorite							
Alternation mineral	by field observation.*				by x-Ray diffraction			
Assemblage	Fyrite, Quartz, Chlorite							
Combination of country rocks *					Hornblende-andesite, (Chert?)			

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode	Other Methode											
Investigation of Fossils	Radiolaria	Necessity of follow up survey is highest	Necessity of follow up survey is high	Nanno-Plankton	Possibility of follow up survey is reliable	Other Fossils	Necessity of follow up survey is low	Follow up survey is needless						
									Spot Investigation	A	B	C	D	E
Evaluation for Ore Prospects	Summarized Evaluation	A	B	C	D	E								
<p>Other specially Mentions</p> <p>Fine dissemination to clusters of pyrite are within silicified zone in hornblende andesite and associated cherty sediments, dykes and sills of hornblende andesite carried with its pyrite mineralization fluids and cut the sediments parallel to bedding. Silicified zone is about 30 m long.</p>														

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DIUDENAN		Mineral Prospects No.		11 (Palanan)		
	1/50,000 Topographic map No.	34701	X * Coordinates	10,700	Y * Coordinates	10,300	Altitud (m) * 200
Survey date *	July, 7, '86.		Surveyer *	T. Koseki, F. G. Sajona			
Compiling data (file No.)	Owner of mining right						
Metallogenic province			Type of Ore Deposits *	Vein Type		Country rock of Ore Deposits * Andesite	
One mineral Assemblage	by field observation* Pyrite		by micro-scope		by x-Ray diffraction		
Gangue mineral Assemblage	by field observation* Quartz, Chlorite		by micro-scope		by x-Ray diffraction		
Alternation mineral Assemblage	by field observation* Pyrite, Quartz, Clay		by micro-scope		by x-Ray diffraction		
Combination of country rocks *	Andesite						

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K-Ar Methode		Other Methode			
Investigation of Fossils		Radiolaria	Nanno-Plankton	Other Fossils			
Evaluation for Ore Prospects	Spot Investigation	A	Necessity of follow up survey is high	C	Possibility of follow up survey is reliable	(D)	Follow up survey is needless
	Results of Geochemical & other analysis	A	"	B	"	D	"
	Summerized Evaluation	A	"	B	"	D	"
Other specially Mentions		<p>An intrusive body of hornblendeandesite cuts through cherty sediments, the andesite is fractured and intruded by quartz veinlets ranging from 10 to 40 cm in width.</p> <p>Silicified zones are also confined to fractures, Pyrite is only the discernible ore mineral associated with the veinlet and silicified zones.</p>					

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DIBENELANG		Mineral Prospects No.		12 (Palanan)		
	1/50,000 Topographic map No.	347111	X* Coordinates	9,650	Y* Coordinates	14,200	Altitud (m)
Locality							140 -200 (m) *
Survey date	May, 31, '86.		Surveier *				T. Koseki, W. Diegor
Compiling data (file No.)			Owner of mining right				
Metallogenic province	Northern Sierra Madre Ultramafic Complex		Type of Ore Deposits *	(Cumulate Cr) Layered		Country rock of Ore Deposits *	Serpentinized Dunite
One mineral Assemblage	Chromite		by field observoction.*			by x-Ray diffraction	
Gangue mineral Assemblage	Olivine Serpentine Pyroxene		by field observoction.*			by x-Ray diffraction	
Alternation mineral Assemblage	Serpentine Talc		by field observoction.*			by x-Ray diffraction	
Combination of country rocks	Serpentinized dunite, Serpentinized peridotite, minor pyroxenite						

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode				
Investigation of Fossils		Radioraria		Nanno-Plankton		Other Fossils		
Ore Prospects for Evaluation for	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	Follow up survey is needless
	Results of Geochemical & other analysis	A	"	"	C	"	D	"
	Summarized Evaluation	A	"	"	C	"	D	"
Other specially Mentions		<p>Area is locally called Dibenelang. Two spots were visited; one site is overlain by large boulders and cobbled of massive chromite; and the other one consists of a 3 m thick layer of massive chromite in dunite. The chromite layer in site (2) exhibits grading in the top 0.5 m, indicating crystal settling during formation probably in a magma chamber under an ancient spreading ridge. The intimate relationships of the dunite, peridotite (hartzburgite), chromite bands, pyroxenite dykes and even the floats of layered and massive gabbro probably represent a truncated ophiolite sequences.</p>						

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	BICOBIAN		Mineral Prospects No.			13 (Palanan)
	1/50,000 Topographic map No.	X * Coordinates	Y * Coordinates	Altitud	80 (m) *	
Locality *	34711		15,700	11,000		
Survey date *	July, 4, '86	Surveyer *	A. Cabantog, E. Billedo			
Compiling data (file No.)		Owner of mining right *	Island Mining and Industrial Corporation (IMIC)			
Metallogenic province		Type of Ore Deposits *	Massive Sulfide	Country rock of Ore Deposits *	Pillow Basalt	
One mineral Assemblage	by field observation.* Bornite, Chalcocite Chalcopyrite, Sphalerite				by x-Ray diffraction	
Cangue mineral Assemblage	by field observation.* Quartz, Pyrite (Chert)				by x-Ray diffraction	
Alternation mineral Assemblage	by field observation.* Argillization, Chloritization, minor Silicification				by x-Ray diffraction	
Combination of * country rocks	Pillow basalt/ Chert with interbed of tuff					

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K-Ar Methode		Other Methode							
Investigation of Fossils		Radiolaria		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	"
	Summarized Evaluation	A	"	B	"	C	"	D	"	E	"
Other specially Mentions		<p>Massive sulfide deposit is similar to the Cyprus type of deposit. The footwall consists of altered pillow basalt, the massive sulfide and then overlain by bed of chert intercalated with tuffaceous sediments. The rocks collected consists of disseminations of pyrite, sphalerite, chalcocite and chalcopyrite. Stringer mineralizations were also found on the country rocks w/c are the altered pillow basalt.</p> <p>According to the former mine manager, this deposit has produced 150,000 t copper, and some manganese.</p>									

Appendix

figure 3, Data sheet for Mineral Prospects(I)

Survey area	Port BICOBIAN (LACSON)		Mineral Prospects No.		14 (Palanan)		
	1/50,000 Topographic map No.	34711	X Coordinates *	14,500	Y Coordinates *	8,400	Altitud (m) *
Locality *	A. Cabantog, E. Billedo						180
Survey date *	July, 5, '86.						
Compiling data (file No.)	Owner of mining right						
Metallogenic province	Type of Ore Deposits *						Pillow Basalt
One mineral Assemblage	by field observation.* Bornite, Chalcocite, Sphalerite, Chalcopyrite						Country rock of Ore Deposits *
Gangue mineral Assemblage	by field observation.* Quartz, Pyrite						by x-Ray diffraction
Alternation mineral Assemblage	by field observation.* Argillization, Silicification and Chloritization						by x-Ray diffraction
Combination of country rocks *	Pillow basalt/ chert						

Figure 3. Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode	
Investigation of Fossils		Radioraria	Nanno-Plancton	Other Fossils	
Evaluation for Ore Prospects	Spot Investigation	A	(B)	D	E
	Results of Geochemical & other analysis	"	"	"	"
	Summarized Evaluation	A	B	D	E
Other specially Mentions		<p>The massive sulphide deposit is also similar to the Cyprus type massive sulfide deposit. The foot wall consisting of altered pillow basalt, massive sulfide and overlain by interbeds of chert and tuffaceous sediments. Veinlets of quartz were also observed on the pillow basalt which is likewise chloritized stringer mineralizations were also found. Rock samples collected showed some chalcopyrite, pyrite, bornite and sphalerite disseminations.</p>			

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	BLOS RIVER		Mineral Prospects No.		15 (Palanan)		
	1/50,000 Topographic map No.	3472III	X* Coordinates	14,300	Y* Coordinates	8,800	Altitude ASL (m)*
Locality*	June, 6, '86	June, 6, '86	Surveyer	Y. Tsuguma			
Survey date			Owner of mining right				
Compiling data (file No.)			Type of Ore Deposits*	Weak pyrite dissemination in granodiorite		Country rock of Ore Deposits Granodiorite	
Metallogenic province							
One mineral Assemblage	by field observation*	Pyrite		by micro-scope		by x-Ray diffraction	
Gangue mineral Assemblage	by field observation*	Quartz, Calcite Veinlet		by micro-scope		by x-Ray diffraction	
Alteration mineral Assemblage	by field observation*	Silicified, limonitized Pyrite dissemination length about 30 m in granodiorite		by micro-scope		by x-Ray diffraction	
Combination of country rocks	Granodiorite (Acidic intrusive rock)						

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode	Other Methode	
Investigation of Fossils		Radioraria	Nanno-Plankton	Other Fossils
Ore Prospects Evaluation for	Spot Investigation	Necessity of follow up survey is highest	Necessity of follow up survey is high	Necessity of follow up survey is needless
	Results of Geochemical & other analysis	A	B	C
	Summarized Evaluation	A	B	C
			Possibility of follow up survey (D) is reliable	Follow up survey is needless
			"	"
			"	"
<p>This showing is located in the left side of the central stream of Bloss River at elevation of about 110 m. Quartz and/or calcite veinlets of about 0.5 to 1 cm were also noted at outcrops. As observed in the field, no copper minerals are exist while pyrite is minor to moderate in amount especially along sheared zones that generally trends N 70° E and dips 80° SE.</p>				
Other specially Mentions				

Appendix

Figure 3, Data sheet for Mineral Prospects (I)

Survey area	DISUDO CREEK		Mineral Prospects No.		1 (Cauayan)		
	1/50,000 Topographic map No.	3469IV	X* Coordinates	1550	Y* Coordinates	Altitude	300 (m)*
Locality*							
Survey date	June, 23, '86		Surveier*	T. ISAKA, O. PINEDA			
Compiling data (file No.)			Owner of mining right				
Metallogenic province			Type of Ore Deposits*	Vein Type	Country rock of Ore Deposits*	Andesite (N)	
One mineral Assemblage	by field observation.*	Pyrite	by micro-scope		by x-Ray diffraction		
Cangue mineral Assemblage	by field observation.*	Quartz	by micro-scope		by x-Ray diffraction		
Alternation mineral Assemblage	by field observation.*	Chlorite Epidote	by micro-scope		by x-Ray diffraction		
Composition of country rocks*	N ₁ Andesite lava and Andesite dyke in it.						

Figure 3. Data sheet for Mineral Prospects (II)

Age Determination		K-Ar Methode		Other Methode		
Investigation of Fossils	Radiolaria	Nanno-Plankton		Other Fossils		
	Spot Investigation	Necessity of follow up survey is highest	Necessity of follow up survey is high	Possibility of follow up survey (D) is reliable	Necessity of follow up survey is low	Follow up survey is needless
	Results of Geochemical & other analysis	A	B	C	E	E
Evaluation for Ore Prospects	Sumnerized Evaluation	"	"	"	"	"
		A	B	C	D	E
<p>Two pyrite-quartz veins are observed in N₁ andesite lava.</p>						
<p>Other specially Mentions</p>						

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DINA CREEK I		Mineral Prospects No.		2 (Cauayan)			
* Locality	1/50,000 Topographic map No.	3470III	X* Coordinates	23,550	Y* Coordinates	16,200	Altitud	500 (m)
* Survey date	June, 10, '86.		Surveier	* T. ISAKA, O. PINEDA				
Compiling data (file No.)	Owner of mining right							
Metallogenic province			Type of Ore Deposits	Vein Type		Country rock of Ore Deposits		Andesite (N ₁)
One mineral	by field observation.*							
Assemblage	Pyrite Chalcopyrite							by x-Ray diffraction
Gangue mineral	by field observation.*							
Assemblage	Quartz							by x-Ray diffraction
Alteration mineral	by field observation.*							
Assemblage	Chlorite							by x-Ray diffraction
Combination of country rocks	* Andesite (N ₁) and Quartzdiorite intrusive body.							

Figure 3. Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode		Other Fossils					
Investigation of Fossils		Radioraria		Nanno-Plankton		Other Fossils					
Ore Prospects Evaluation for	Spot Investigation	A	Necessity of follow up survey is highest	(a)	Necessity of follow up survey is high	C	Possibility of follow up survey is reliable	D	Ne cessity of follow up survey is low	E	Follow up survey is needless
	Results of Geochemical & other analysis	A	"	B	"	C	"	D	"	E	"
	Summarized Evaluation	A	"	B	"	C	"	D	"	E	"
<p>Pyrite-quartz network dissemination are observed in this mineralization zone. Following survey is desirable including Dina Creek II zone.</p>											
<p>Other specially Mentions</p>											

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DINA CREEK II		Mineral Prospects No.		3 (cauayan)		
	1/50,000 Topographic map No.	3470III	X* Coordinates	23,450	Y* Coordinates	15,950	Altitude 500 (m)*
Locality*	June, 10, '66		T. ISAKA, O. PINEDA				
Survey date	June, 10, '66		T. ISAKA, O. PINEDA				
Geological data (file No.)	Owner of mining right						
Metallogenic province	Type of Ore Deposits		Country rock of Ore Deposits		* by x-Ray diffraction		
One mineral Assemblage	by field observation* Chalcopyrite Magnetite Pyrrhotite Pyrite		by micro-scope				
Gangue mineral Assemblage	by field observation*		by micro-scope		by x-Ray diffraction		
Alteration mineral Assemblage	by field observation* Chlorite		by micro-scope		by x-Ray diffraction		
Concentration of country rocks*	Andesite (N ₁) and Quartzdiorite intrusive body.						

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode							
Investigation of Fossils		Radioraria		Nanno-Plankton		Other Fossils					
Ore Prospects for Evaluation	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	"
	Sumnerized Evaluation	A	"	B	"	C	"	D	"	E	"
Other specially Mentions		<p>Sample of ore assay is collected from floated block, consist of chalcopyrite and magnetite bearing massive pyrrhotite-pyrite. This floated block show different appearance to DINA CREEK I showing, but many ore blocks which have the size of 0.5 x 0.5 m to 3x 3 m scatter along the river, then outcrops of this ore seems to locate near DINA CREEK II.</p>									

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DIWAGAO		Mineral Prospects No.		4 (Cauayan)	
	1/50,000 Topographic map No.	3470III	X Coordinates	20,700	Y Coordinates	2,500
* Locality						Altitude 400 (m) *
* Survey date	June, 25, '86.		Surveier *	T. ISAKA, O, PINEDA.		
Compiling data (file No.)			Owner of mining right			
Metallogenic province			Type of Ore Deposits *	Vein Type (?)	Country rock of Ore Deposits *	N Andesite(?) 1
One mineral Assemblage	by field observation.* Pyrite Chalcopyrite Pyrrhotite			by micro-scope	by x-Ray diffraction	
Gangue mineral Assemblage	by field observation.* Quartz			by micro-scope	by x-Ray diffraction	
Alternation mineral Assemblage	by field observation.* Epidote Quartz			by micro-scope	by x-Ray diffraction	
* Consination of country rocks	Andesite, Quartzdiorite and Microdiorite.					

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination	K- Ar Methode	Other Methode	Other Fossils		
Investigation of Fossils	Radioraria	Nanno-Plankton	Other Fossils	Other Fossils	
Spot Investigation	Necessity of follow up survey is highest (B)	Necessity of follow up survey is high	Possibility of follow up survey is reliable	Ne cessity of follow up survey is low	Follow up survey is needless
Results of Geochemical & other analysis Sumnerized Evaluation	A	B	C	D	E
Ore Prospects Evaluation for	"	"	"	"	"
	"	"	"	"	"
	"	"	"	"	"
Other specially Mentions	<p>Sample of ore assay is collected from float at river side, the outcrop of this ore still unknown but the outcrop seems to exist in near site according the reasons as follows:</p> <p>(1) Floating ore size is boulder.</p> <p>(2) The contact between andesite and diorite exist in this site and many mineral showings observed at such contact in Cauayan Area.</p> <p>(3) Pyritization and Epidotization are observed in andesite and diorite.</p>				

Appendix

Figure 3. Data sheet for Mineral Prospects(I)

Survey area	DICAYAN RIVER I		Mineral Prospects No.		5 (Cauayan)		
	1/50,000 Topographic map No.	X Coordinates	Y Coordinates	Altitude	Altitude (m)		
Locality	3369I		16,900	1,350	400		
Survey date	July, 3, '86	Surveyer	T. ISAKA, O. PINEDA				
Geopling data (file No.)		Owner of mining right					
Metallogenic province		Type of Ore Deposits	Sedimentary Origine		Country rock of Ore Deposits	Calcareous conglomerate	
One mineral	by field observation*		by micro-scope		by x-Ray diffraction		
Assemblage	Hematite Goethite						
Gengue mineral	by field observation*		by micro-scope		by x-Ray diffraction		
Assemblage	Calcite						
Alternation mineral	by field observation*		by micro-scope		by x-Ray diffraction		
Assemblage							
Combination of country rocks		Calcareous Conglomerate					

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode		
Investigation of Fossils		Radiolaria	Nanno-Plankton	Other Fossils		
Evaluation for Ore Prospects	Spot Investigation	A	Necessity of follow up survey is high	C	Possibility of follow up survey (D) is reliable	Follow up survey is needless
	Results of Geochemical & other analysis	A	B	C	"	"
	Summarized Evaluation	A	B	C	"	"
Other specially Mentions						

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DICAMAY RIVER II		Mineral Prospects No.		6 (Cauayan)		
	1/50,000 Topographic map No.	3369 I	X * Coordinates	16,300	Y * Coordinates	1,750	Altitud 400 (m) *
Survey date	July, 3, '86.		Surveyer *	T. ISAKA, O. PINEDA			
Geopling data (file No.)	Owner of mining right						
Metallogenic province	Hematite		Type of Ore Deposits *	Calcareous Ore Deposits Conglomerate			
One mineral assemblage	by field observootion.*		by micro-scope		by x-Ray diffraction		
Geoguc mineral assemblage	Hematite		by field observootion.*		by x-Ray diffraction		
Alternation mineral assemblage	Calcite		by field observootion.*		by x-Ray diffraction		
Combination of country rocks	Calcareous Conglomerate.						

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode			
Investigation of Fossils	Radiolaria	Nanno-Plankton		Other Fossils			
		Necessity of follow up survey is high		Possibility of follow up survey is reliable			
	Necessity of follow up survey is highest		Necessity of follow up survey is low		Follow up survey is needless		
	A		B		C		
Spot Investigation	Results of Geochemical & other analysis		Sumnerized Evaluation		Ore Prospects		
	A		B		C		
	"		"		"		
Evaluation for		"		"		"	
Other specially Mentions		"		"		"	

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	ILAGAN RIVER		Mineral Prospects No.		7 (Cauayan)		
Locality	1/50,000 Topographic map No.	3469IV	X * Coordinates	6,200	Y * Coordinates	15,100 Altitud	240 (m) *
Survey date	June, 29, '86.		Surveier *	T. ISAKA, O. PINEDA			
Compiling date (file No.)							
Metallogenic province			Owner of mining right				
One mineral assemblage			Type of Ore Deposits			Country rock of Ore Deposits	
Gangue mineral Assemblage	by field observation*		by micro-scope		by x-Ray diffraction		
Alteration mineral Assemblage	Pyrite				by x-Ray diffraction		
Combination of country rocks	Chlorite Quartz		by field observation*		by x-Ray diffraction		
	Andesite and Diorite intrusive body.						

Figure 3. Data sheet for Mineral Prospects (II)

Age Determination	K- Ar Methode	Other Methode	Other Fossils		
Investigation of Fossils	Radioraria	Nanno-Plankton	Other Fossils		
Ore Prospects for Evaluation for	Spot Investigation	Necessity of follow up survey is highest	B	Possibility of follow up survey is reliable	Follow up survey is needless
	Results of Geochemical & other analysis	"	B	"	"
	Summarized Evaluation	"	B	"	"
Other specially Mentions	Mineralization zone expose about 80 m length along the river. Pyrite network dissemination is observed in fisser developing andesite at mineralization zone.				

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DIDEN RIVER		Mineral Prospects No.		8 (Cauayan)			
	1/50,000 Topographic map No.	3469IV	X Coordinates	7,600	Y Coordinates	13,000	Altitude	260 (m)
Locality								
Survey date	June, 29, '86.		Surveyer	T. ISAKA, O. PINEDA				
Compiling data (file No.)			Owner of mining right					
Metallogenic province			Type of Ore Deposits	Vein Type(Disseminatiobre Deposits	Country rock of*	Andesite(N ₁)		
One mineral assemblage	by field observootion.*	Pyrite		by micro-scope	by x-Ray diffraction			
Gangue mineral assemblage	by field observootion.*	Quartz		by micro-scope	by x-Ray diffraction			
Alteration mineral assemblage	by field observootion.*	Quartz Chlorite		by micro-scope	by x-Ray diffraction			
Combination of country rocks	Andesite and Diorite intrusive body.							

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	Follow up survey is needless
	Results of Geochemical & other analysis	A	"	B	"	C	"	D	"
	Summarized Evaluation	A	"	B	"	C	"	D	"
Other specially Mentions		Pyrite dissemination are observed in fracture developed andesite.							

Appendix

Figure 3, Data sheet for Mineral Prospects (I)

Survey area	PARIG CREEKI		Mineral Prospects No.		9 (Cauayan)	
Locality	1/50,000 Topographic map No.	3469IV	X Coordinates	Y Coordinates	Altitude	560 (m)
Survey date	June, 24, '86.		Surveyer	T. ISAKA, O. PINEDA		
Compiling date (file No.)			Owner of Mining right			
Metalogenic province			Type of Ore Deposits	Vein Type	Country rock of Ore Deposits	Dacite(N ₁)
One mineral assemblage	by field observation*	Pyrite		by micro-scope	by x-Ray diffraction	
Gangue mineral assemblage	by field observation*	Quartz		by micro-scope	by x-Ray diffraction	
Alteration mineral assemblage	by field observation*	Chlorite Quartz		by micro-scope	by x-Ray diffraction	
Composition of country rocks		Dacite				

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode							
Investigation of Fossils		Radiolaria		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)	Me cessity 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											

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	PALIG CREEK II		Mineral Prospects No.		10 (Cauayan)	
Locality	1/50,000 Topographic map No.	3469IV	X Coordinates	Y Coordinates	Altitude	560 (m)
Survey date	June, 24, '86.		Surveyor	T. ISAKA, O. PINEDA		
Geological data (file No.)			Owner of mining right			
Metallogenic province			Type of Ore Deposits	Strata bound deposit	Country rock of Ore Deposits	Unknown
Ore mineral assemblage	by field observation.*	Oxidized Manganese Ore		by micro-scope	by x-Ray diffraction	
Gangue mineral assemblage	by field observation.*			by micro-scope	by x-Ray diffraction	
Alteration mineral assemblage	by field observation.*			by micro-scope	by x-Ray diffraction	
Combination of country rocks	*					

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination	K-Ar Methode	Other Methode						
Investigation of Fossils	Radiolaria	Nanno-Plankton	Other Fossils					
	Necessity of follow up survey is highest	Necessity of follow up survey is high	Possibility of follow up survey is reliable	No necessity of follow up survey is low	Follow up survey is needless			
Evaluation for Ore Prospects	Spot Investigation	A	B	C	D	E		
	Results of Geochemical & other analysis	"	B	C	"	E	"	
	Summarized Evaluation	"	B	C	"	E	"	
Sample of Ore assay is collected from float boulder at river side, therefore outcrop of ore unknown.								
Other specially Mentions								

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	PALIG CREEK III		Mineral Prospects No.		11 (Cauayan)		
Locality *	1/50,000 Topographic map No.	3469IV	X * Coordinates	19,100	Y * Coordinates	8,600 Altitud	580 (m) *
Survey date *	June, 26, '86.		Surveyor *	T. ISAKA, O. PINEDA			
Compiling date (file No.)			Owner of mining right				
Metalogenic province			Type of Ore Deposits *	Vein type		Country rock of Ore Deposits	Dacite (M ₁)
One mineral assemblage	Pyrite		by field observation *	by micro-scope		by x-Ray diffraction	
Genase mineral assemblage	Quartz		by field observation *	by micro-scope		by x-Ray diffraction	
Alternation mineral assemblage	Quartz Chlorite		by field observation *	by micro-scope		by x-Ray diffraction	
Combination of country rocks *	Dacite						

Figure 5, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode		Other Fossils		Follow up survey is	
Investigation of Fossils		Radiolaria		Nanno-Plankton		Possibility of follow up survey (p) is reliable		Needless	
Ore Prospects for Evaluation		Necessity of follow up survey is highest		Necessity of follow up survey is high		Follow up survey is reliable		Follow up survey is needless	
Spot Investigation	A	Necessity of follow up survey is highest		Necessity of follow up survey is high		Follow up survey is reliable		Follow up survey is needless	
Results of Geochemical & other analysis	A	"		"		"		"	
Summarized Evaluation	A	"		"		"		"	
		B		B		D		E	
		C		C		D		E	
		C		C		D		E	
Barren quartz vein including small amount of pyrite is observed in this site.									
Other specially Mentions									

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Isabela		Mineral Prospects No.		I (Ilagan)		
	1/50,000 Topographic map No.	34611111	X * Coordinates	5,450	Y * Coordinates	16,000	Altitude 110 (m) *
Survey date *	June, 15, '86.		Surveyer *	A. Shida, J. Ellores			
Compiling data (file No.)			Owner of mining right				
Metalogenic province			Type of Ore Deposits *	Dissemination		Country rock of Ore Deposits Meta-volcanics	
Ore mineral	by field observation *			by micro-scope			
Assemblage	Pyrite Chalcopyrite (small amount)						
Gangue mineral	by field observation *			by micro-scope			
Assemblage	Quartz						
Alteration mineral	by field observation *			by x-Ray diffraction			
Assemblage	Silicification			by x-Ray diffraction			
Combination of country rocks				Meta-volcanic rock			

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K-Ar Methode		Other Methode					
Investigation of Fossils		Radiolaria		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	Follow up survey is needless
	Results of Geochemical & other analysis	A	"	B	"	C	"	D	"
	Summarized Evaluation	A	"	B	"	C	"	D	"
Other specially Mentions		<p>Pyrite disseminated in meta-volcanic host-rock with small amount of chalcopyrite. The outcrop exhibit fracture N 20° W strike 10° NE dip and N 44° E, 70° SE. Pyrite mineralization develop along these fractures.</p>							

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Siagot		Mineral Prospects No.		2 (Ilagan)	
	1/50,000 Topographic map No.	X Coordinates	Y Coordinates	Altitud	90 (m)	
* Locality	3471111		6,600	10,950	90 (m)	
* Survey date	June, 15, '86.	Surveier	A. Shida, J. Flores			
Compiling date (file No.)		Owner of mining right				
Metallogenic province		Type of Ore Deposits	Dissemination	Country rock of Ore Deposits	Meta sedimentary rock	
Ore mineral Assemblage	by field observation.* Pyrite Chalcopyrite (small amount)		by micro-scope	by x-Ray diffraction		
Gangue mineral Assemblage	by field observation.* Quartz		by micro-scope	by x-Ray diffraction		
Alternation mineral Assemblage	by field observation.* Silicification		by micro-scope	by x-Ray diffraction		
Composition of country rocks	*					

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode							
Investigation of Fossils		Radiolaria		Nanno-Plankton		Other Fossils					
Ore Prospects for Evaluation	Spot Investigation	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	"
	Summarized Evaluation	A	"	B	"	C	"	D	"	E	"
<p>The outcrop exhibits a N20°E fracture dipping 75° to NW. Pyrite mineralization develop along this fracture with small amount of chalcopyrite.</p>											
<p>Other specially Mentions</p>											

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Ilagan No.1		Mineral Prospects No.		3 (Ilagan)		
	1/50,000 Topographic map No.	3471111	X Coordinates	7,200	Y Coordinates	Altitude	250 (m)
* Locality							*
* Survey date	June, 14, '86.		Surveier		A. Shida, J. Flores		
Compiling data (file No.)			Owner of mining right				
Metallogenic province			Type of Ore Deposits	Dissemination	Country rock of Ore Deposits	Meta sedimentary Rock	
Ore mineral Assemblage	by field observation.*			by micro-scope		by x-Ray diffraction	
			Pyrite, Chalcopyrite (small amount)				
Gangue mineral Assemblage	by field observation.*			by micro-scope		by x-Ray diffraction	
			Quartz				
Alternation mineral Assemblage	by field observation.*		Silicification	by micro-scope		by x-Ray diffraction	
Combination of country rocks							

Figure 3. Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode	
Investigation of Fossils	Radiolaria	Nanno-Plankton	Other Fossils		
	Necessity of follow up survey is highest	Necessity of follow up survey is high	Possibility of follow up survey (D) is reliable	Follow up survey is needless	Follow up survey is
	A	B	C	E	E
Evaluation for Ore Prospects	Spot Investigation	B	C	D	E
	Results of Geochemical & other analysis	"	"	"	"
	Summerized Evaluation	A	B	D	E
<p>The mineralized outcrop are roughly along the N70°W and N10°E trending two shear zones. Pyrite with small amount of chalcopyrite occur as dissemination in the meta sedimentary host rock.</p>					
<p>Other specially Mentions</p>					

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Ilagan No.2		Mineral Prospects No.		4 (Ilagan)	
	Topographic map No.	X Coordinates	Y Coordinates	Altitude	200 (m)	
* Locality	1/50,000	3471111	6,800	14,250	200 (m)	
* Survey date	June, 14, '86.	Surveier *	A. Shida, J. Flores			
Compiling data (file No.)		Owner of mining right				
Metallogenic province		Type of Ore Deposits *	Dissemination	Country rock of Ore Deposits *	Quartzdiorite	
Ore mineral	by field observation.*	by micro-scope	by x-Ray diffraction			
Assemblage	Pyrite, Chalcopyrite (small amount)					
Cangue mineral	by field observation.*	by micro-scope	by x-Ray diffraction			
Assemblage	Quartz, Limonite					
Alternation mineral	by field observation.*	by micro-scope	by x-Ray diffraction			
Assemblage	Silicification, Limonitization.					
Combination of country rocks	*					

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	Necessity of follow up survey is highest	Necessity of follow up survey is high	Necessity of follow up survey is (B) needless
	Results of Geochemical & other analysis	"	"	"
	Summarized Evaluation	A	B	E
Other specially Mentions		"	"	"
		"	"	"
		"	"	"

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Menuma No.1		Mineral Prospects No.		5 (Ilagan)			
* Locality	1/50,000 Topographic map No.	347LIII	X Coordinates	9,750	Y Coordinates	13,350	Altitude	150 (m)
* Survey date	June, 16, '86.		* Surveyor	A. Shida, J. Flores				
Compiling data (file No.)	Owner of mining right							
Metallogenic province	Type of Ore Deposits		Vein Type		Country rock of Ore Deposits			* Meta sedimentary Rock
Ore mineral	by field observation.* Pyrite		by micro-scope		by x-Ray diffraction			
Assemblage	Chalcopyrite. (small amount)							
Cangue mineral	by field observation.* Quartz, Epidote.		by micro-scope		by x-Ray diffraction			
Assemblage								
Alteration mineral	by field observation.* Silicification, Epidotization.		by micro-scope		by x-Ray diffraction			
Assemblage								
Combination of country rocks								

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode					
Investigation of Fossils		Radiolaria		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	Neediness of follow up survey is (E) needless
	Results of Geochemical & other analysis	A	"	B	"	C	"	D	"
	Sumnerized Evaluation	A	"	B	"	C	"	D	"
Other specially Mentions		<p>Three epidote-quartz veins develop in the meta sedimentary host rock. These veins contain pyrite with small amount of chalcopyrite.</p>							

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Menu No. 2		Mineral Prospects No.		6 (Ilegan)		
	1/50,000 Topographic map No.	3471111	X Coordinates	9,800	Y Coordinates	12,800	Altitude
Locality *							160 (m) *
Survey date *	June, 16, '86.		Surveier *	A. Shida, J. Flores			
Compiling data (file No.)			Owner of mining right				
Metallogenic province			Type of Ore Deposits	Dissemination	Country rock of Ore Deposits *	Granodiorite	
Ore mineral	by field observation *	Pyrite,		by micro-scope	by x-Ray diffraction		
Assemblage		Chalcopyrite (small amount)					
Gangue mineral	by field observation *	Quartz		by micro-scope	by x-Ray diffraction		
Assemblage							
Alteration mineral	by field observation *	Silicification		by micro-scope	by x-Ray diffraction		
Assemblage							
Combination of country rocks *							

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode							
Investigation of Fossils		Radiolaria		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)	Ne cessity of follow up survey is low	E	Follow up survey is needless
	Results of Geochemical & other analysis	A	"	B	"	C	"	D	"	E	"
	Summarized Evaluation	A	"	B	"	C	"	D	"	E	"
<p>Three gossans develop in the granodiorite host rock. Each gossan contain pyrite with small amount of chalcopyrite.</p>											
<p>Other specially Mentions</p>											

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Menuma No.3		Mineral Prospects No.			Altitud	* (m)
	1/50,000 Topographic map No.	3471111	X Coordinates	9,100	Y Coordinates		
Locality *	June, 16, '86.		Surveier *	A. Shida, J. Flores			120
Survey date *			Owner of mining right				
Compiling data (file No.)			Type of Ore Deposits *	Dissemination		Country rock of Ore Deposits	Meta sedimentary Rock
Metallogenic province			by field observootion.*	by micro-scope		by x-Ray diffraction	
Ore mineral Assemblage	Pyrite, Chalcopyrite (small amount)						
Gangue mineral Assemblage	Quartz		by field observootion.*		by micro-scope		by x-Ray diffraction
Alternation mineral Assemblage	Silicification		by field observootion.*		by micro-scope		by x-Ray diffraction
Combination of country rocks *							

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination	K- Ar Methode	Other Methode				
Investigation of Fossils	Radiolaria		Nanno-Plankton	Other Fossils		
	Necessity of follow up survey is highest	Necessity of follow up survey is high	Necessity of follow up survey is C	Possibility of follow up survey (D) is reliable	Ne cessity of follow up survey is low	Follow up survey is E needness
	A	B	C			
	Spot Investigation	Results of Geochemical & other analysis	Summerized Evaluation			
Evaluation for Ore Prospects	A	B	C	D	E	"
Other specially Mentions						

Appendix

Figure 3, Data sheet for Mineral Prospects(L)

Survey area	Menu No.4		Mineral Prospects No.		8 (Ilagan)		
	1/50,000 Topographic map No.	3471111	X * Coordinates	8,400	Y * Coordinates	11,500 Altitud	110 (m) *
Survey date	June, 16, '86.		Surveyer *	A. Shida, J. Flores			
Compiling data (file No.)			Owner of mining right				
Metallogenic province			Type of Ore Deposits	Dissemination	Country rock of Ore Deposits *	Diorite	
Ore mineral	by field observation.* Pyrite,				by x-Ray diffraction		
Assemblage	Chalcopyrite (small amount)						
Gangue mineral	by field observation.*				by x-Ray diffraction		
Assemblage	Quartz.						
Alteration mineral	by field observation.*				by x-Ray diffraction		
Assemblage	Silicification.						
Combination of country rocks							

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode	Other Methode	
Investigation of Fossils		Radiolaria	Nanno-Plankton	Other Fossils
Evaluation for Ore Prospects	Spot Investigation	Necessity of follow up survey is highest	Necessity of follow up survey is high	Follow up survey is needed
	Results of Geochemical & other analysis	"	"	"
	Summarized Evaluation	"	"	"
Other specially Mentions		<p>Diorite dyke width 20 m occurs in the metasedimentary rock. Along the crushed zone trending N5°W dipping 60°E, Pyrite develop with small amount of chalcopyrite.</p>		

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Casablengan		Mineral Prospects No.		I (Tuguegarao)	
	1/50,000 Topographic map No.	3472IV	X* Coordinates	300-350	Y* Coordinates	11,200-11,260 Altitud
Locality*						420 (m)
Survey date	June, 7, '86.		Surveyer	K. Masubuchi, P. Revillos Jr		
Geopling date (file No.)			Owner of mining right			
Metallogenic province			Type of Ore Deposits	Veinlet & Dissemination	Country rock of Ore Deposits	Dacite
Ore mineral	by field observation.* Pyrite, Chalcopyrite, Bornite(?), Pyrrhotite(?).			by x-Ray diffraction		
Assemblage	by field observation.*			by x-Ray diffraction		
Gangue mineral	by field observation.*			by x-Ray diffraction		
Assemblage	by field observation.*			by x-Ray diffraction		
Alteration mineral	by field observation.*			by x-Ray diffraction		
Assemblage	Limonite(?), Azurite(?), Hematite.			by x-Ray diffraction		
Combination of country rocks*	Dacite intruded in micro-diorite.					

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination	K- Ar Methode	Other Methode	
		Nanno-Plankton	Other Fossils
Investigation of Fossils	Radiolaria		
	Necessity of follow up survey is highest	Necessity of follow up survey is high	Necessity of follow up survey is low
	A	B	D
Spot Investigation			
	Results of Geochemical & other analysis		
	Summarized Evaluation		
Evaluation for Ore Prospects	"	"	"
	A	B	D
	A	B	D
Other specially Mentions			

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Dinaoacan		Mineral Prospects No.		2 (Tuguegarao)		
	1/50,000 Topographic map No.	3472IV	X* Coordinates	2,650-2,690	Y* Coordinates	9,225-9,240	Altitude
Locality*							550 (m)
Survey date*	June, 8, '86.		Surveyer*	K. Masubuchi, P. Revillos Jr			
Sampling data (file No.)			Owner of mining right				
Metallogenic province			Type of Ore Deposits*	Dissemination & Veinlet		Country rock of Ore Deposits*	Dacite
Ore mineral Assemblage	by field observation*, Chalcopyrite (?), Pyrite.					by x-Ray diffraction	
Gangue mineral Assemblage	by field observation*, Quartz.					by x-Ray diffraction	
Alternation mineral Assemblage	by field observation*, Sericite, Chlorite.					by x-Ray diffraction	
Combination of country rocks*	Dacite intruded in Diorite.						

Figure 3. Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode			
Investigation of Fossils		Radiolaria		Nanno-Plankton		Other Fossils	
Spot Investigation		Necessity of follow up survey is highest		Necessity of follow up survey is high		Necessity of follow up survey is low	
Results of Geochemical & other analysis		Necessity of follow up survey is (9)		Possibility of follow up survey is reliable		Possibility of follow up survey is E need less	
Summarized Evaluation		Necessity of follow up survey is highest		Necessity of follow up survey is high		Necessity of follow up survey is low	
Evaluation for Ore Prospects	A	B	B	D	D	E	E
	A	"	"	"	"	"	"
	A	"	"	"	"	"	"
Other specially Mentions							

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Capisayan (W)		Mineral Prospects No.		3 (Tuguegarao)	
	1/50,000 Topographic map No.	3374II	X* Coordinates	16,550-17,000	Y* Coordinates	4,950-5,300 Altitud
Locality*						120 (m)
Survey date*			Surveyer*			
Compiling date (file No.)			Owner of mining right			
Metallogenic province			Type of Ore Deposits*	Sedimentary deposit	Country rock of Ore Deposits*	Sandstone-Shale
Ore mineral	by field observation.*			by micro-scope	by x-Ray diffraction	
Assemblage	Pyrite(?), Hematite, Magnetite(?), Goethite.					
Gangue mineral	by field observation.*			by micro-scope	by x-Ray diffraction	
Assemblage						
Alteration mineral	by field observation.*			by micro-scope	by x-Ray diffraction	
Assemblage	Sericite(?).					
Concination of country rocks*						

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination	K- Ar Methode	Other Methode	Other Fossils		
Investigation of Fossils	Radiolaria	Nanno-Plankton	Other Fossils		
Evaluation for Ore Prospects	Spot Investigation	Necessity of follow up survey is highest	Possibility of follow up survey is reliable	Necessity of follow up survey is low	Follow up survey is needless
	Results of Geochemical & other analysis	B	"	"	"
	Summarized Evaluation	A	"	"	"
Other specially Mentions					

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Capisayan (E)		Mineral Prospects No.		4 (Tuguegarao)	
	1/50,000 Topographic map No.	X Coordinates	Y Coordinates	Altitude (m)	200	
Locality	337411	17,300-17,400	5,130-5,350			
Survey date	June, 27, '86.	Surveier	K. Masubuchi, P. Revillos Jr			
Compiling date (file No.)		Owner of mining right				
Metallogenic province		Type of Ore Deposits	Sedimentary deposit	Country rock of Ore Deposits	Sandstone-Shale	
Ore mineral Assemblage	by field observation.* Pyrite(?), Hematite, Magnetite(?), Goethite.		by micro-scope	by x-Ray diffraction		
Gangue mineral Assemblage	by field observation.*		by micro-scope	by x-Ray diffraction		
Alternation mineral Assemblage	by field observation.* Sericite(?).		by micro-scope	by x-Ray diffraction		
Concination of country rocks						

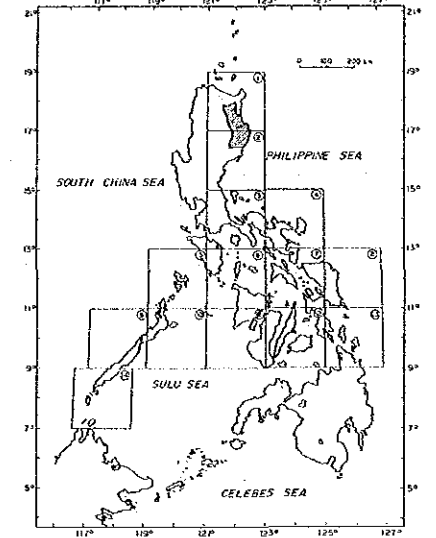
Figure 3. Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode		Other Fossils		Follow up survey is	
Investigation of Fossils		Radiolaria		Nanno-Plankton		Possibility of follow up survey (D) is reliable		Necessity of follow up survey is E needness	
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 (D) is reliable	C	Follow up survey is E needness
	Results of Geochemical & other analysis	A	"	B	"	C	"	D	"
	Summarized Evaluation	A	"	B	"	C	"	D	"
Other specially Mentions									

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北部シエラマドレ地区
 地質図及び断面図



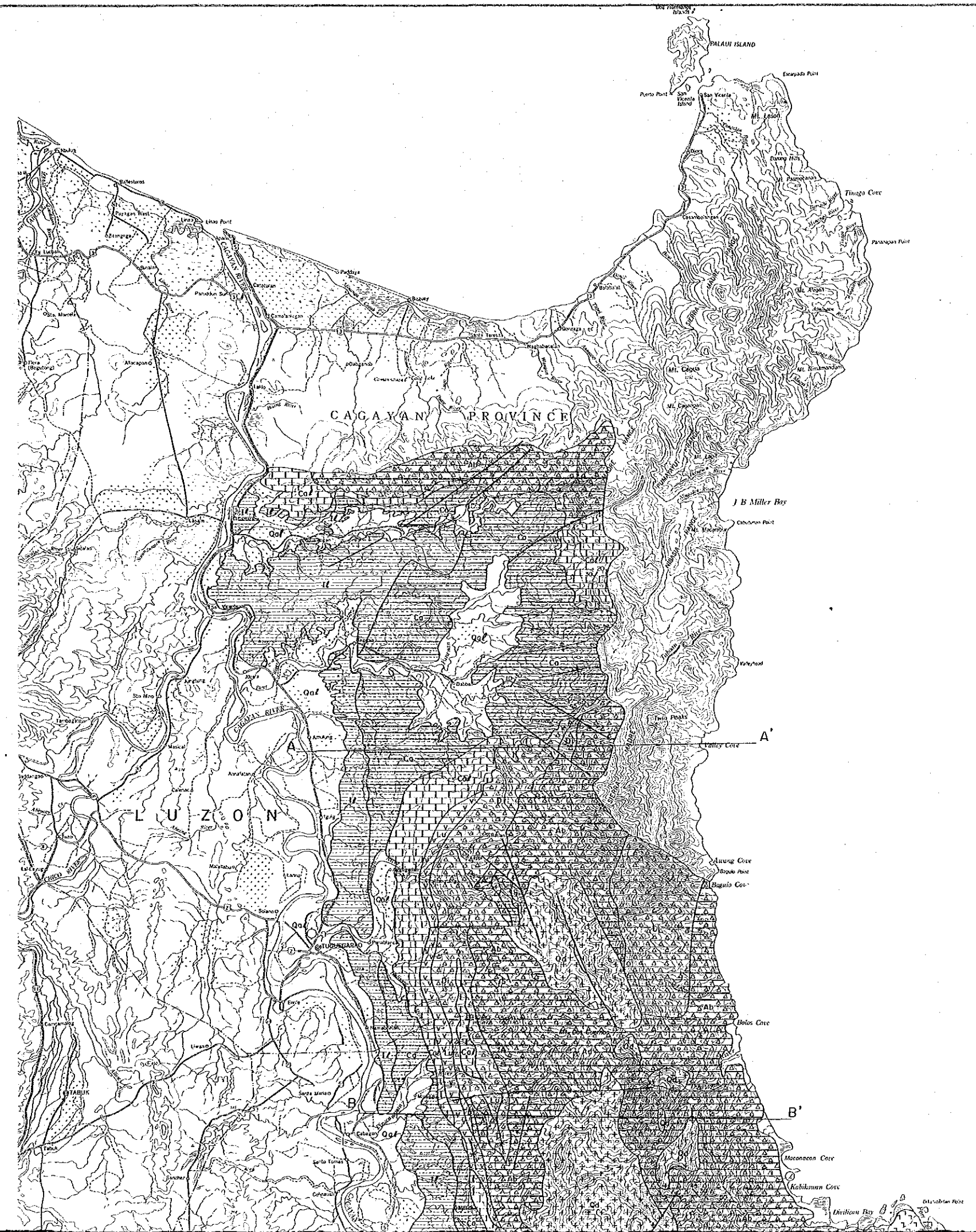
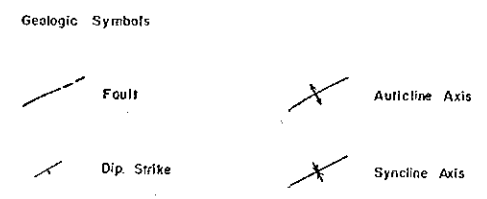
昭和62年2月
 国際協力事業団
 金属鉱業事業団

Scale 1 : 250,000
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PHILIPPINE SEA

LEGEND

Holocene	Qal	Gravel Sand Soil	
Pleistocene	Tf	Iligan Formation	Ka
			Ka
			Ka
Pliocene	Ca	Cabagan Formation	Pa
			Pa
			Pa
Miocene	Ca	Galoo Limestone	
Tertiary	Lu	Lubagan Formation	Ib
			Ib
			Ib
Oligocene	Di	Dibayan Formation	Qd
			Qd
			Qd
Eocene	Mt	Mt. Cresta Formation	Ms
			Ms
			Ms
Paleocene	Ab	Abuan River Formation	Dd
			Dd
			Dd
	Dk	Dikinararan River Chert	
	Bb	Babian Basalt	
Mesozoic	Is	Isabela Ultramafic Complex (Massive gabbro) (Gb)	Is
			Is
			Is

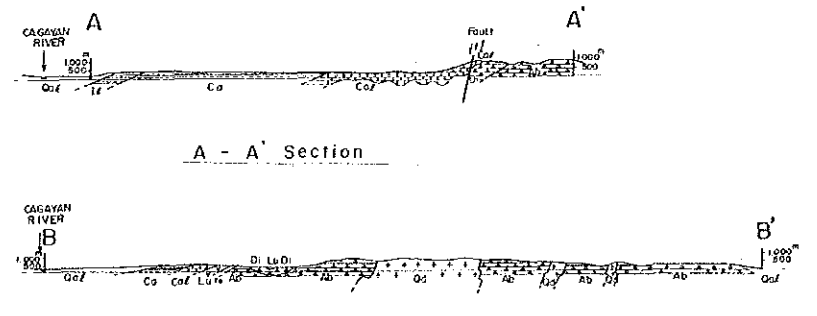


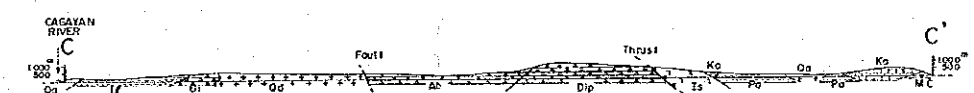
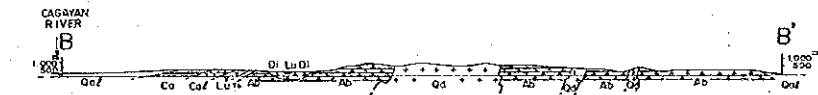


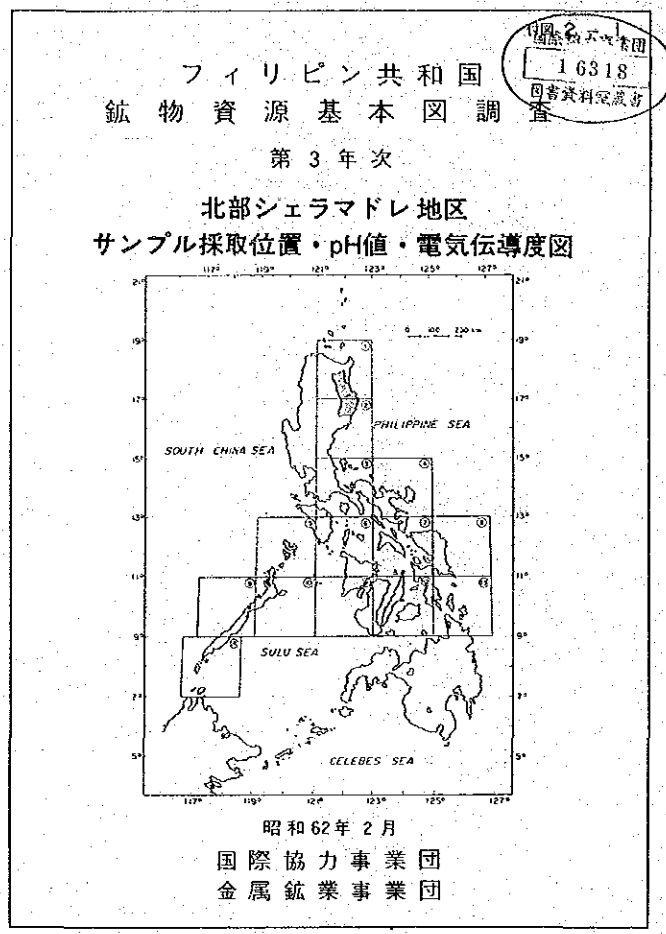
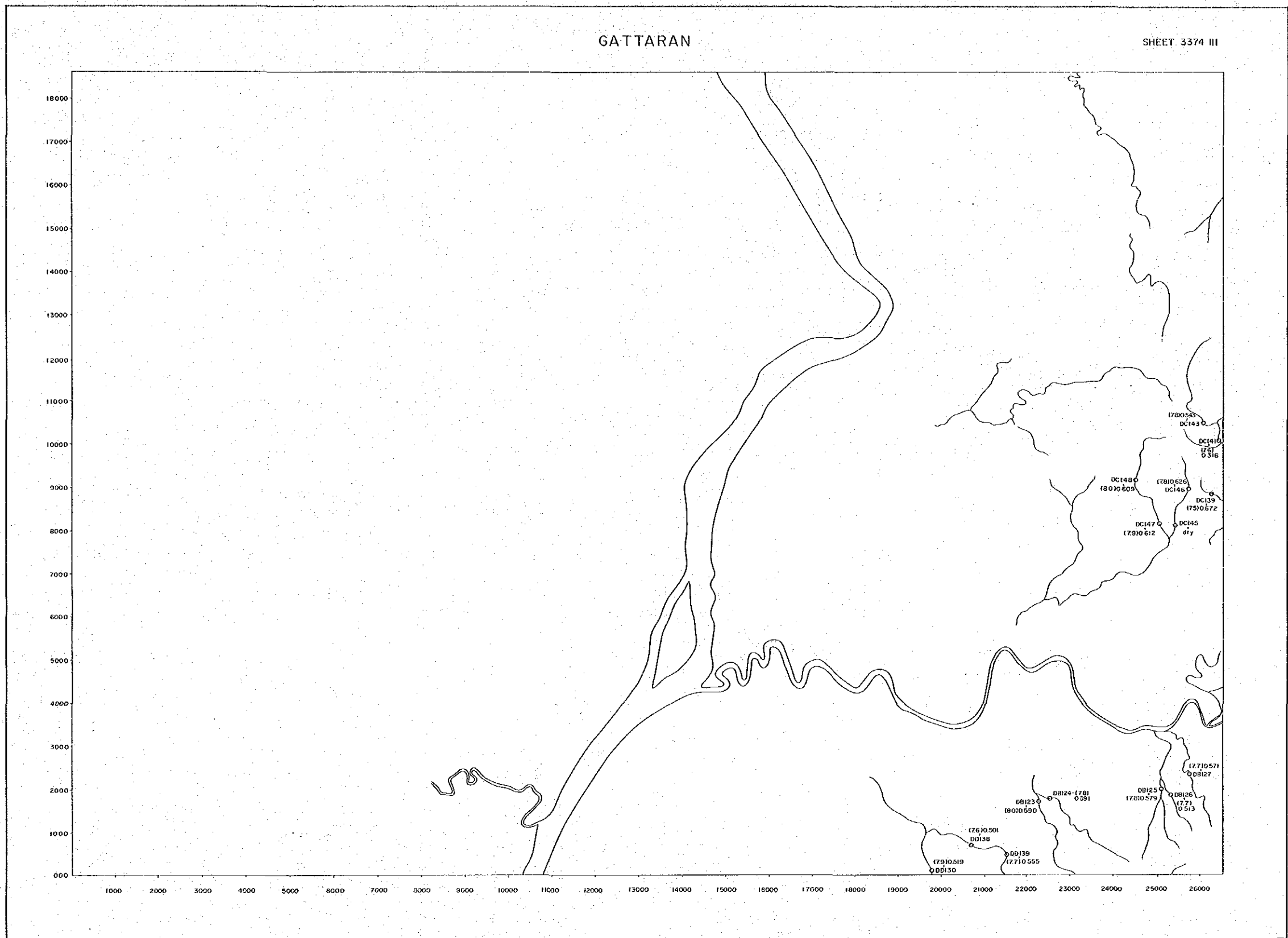
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	Eocene	Mt. Cresta Formation	Masibi River Formation
	Paleocene	Abuan River Formation	Dipadan River Formation
		Dikinamaran River Chart	
		Basoban Basalt	
Mesozoic		Isabela Ultramafic Complex (Massive gabbro) (Gb)	Isabela Ultramafic Complex (Pyroxene Peridotite with lenses of dunite) (Du)

Geologic Symbols

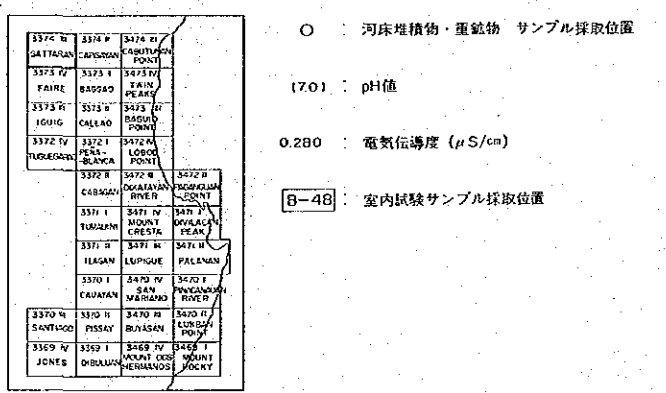
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	Dip. Strike		Syncline Axis





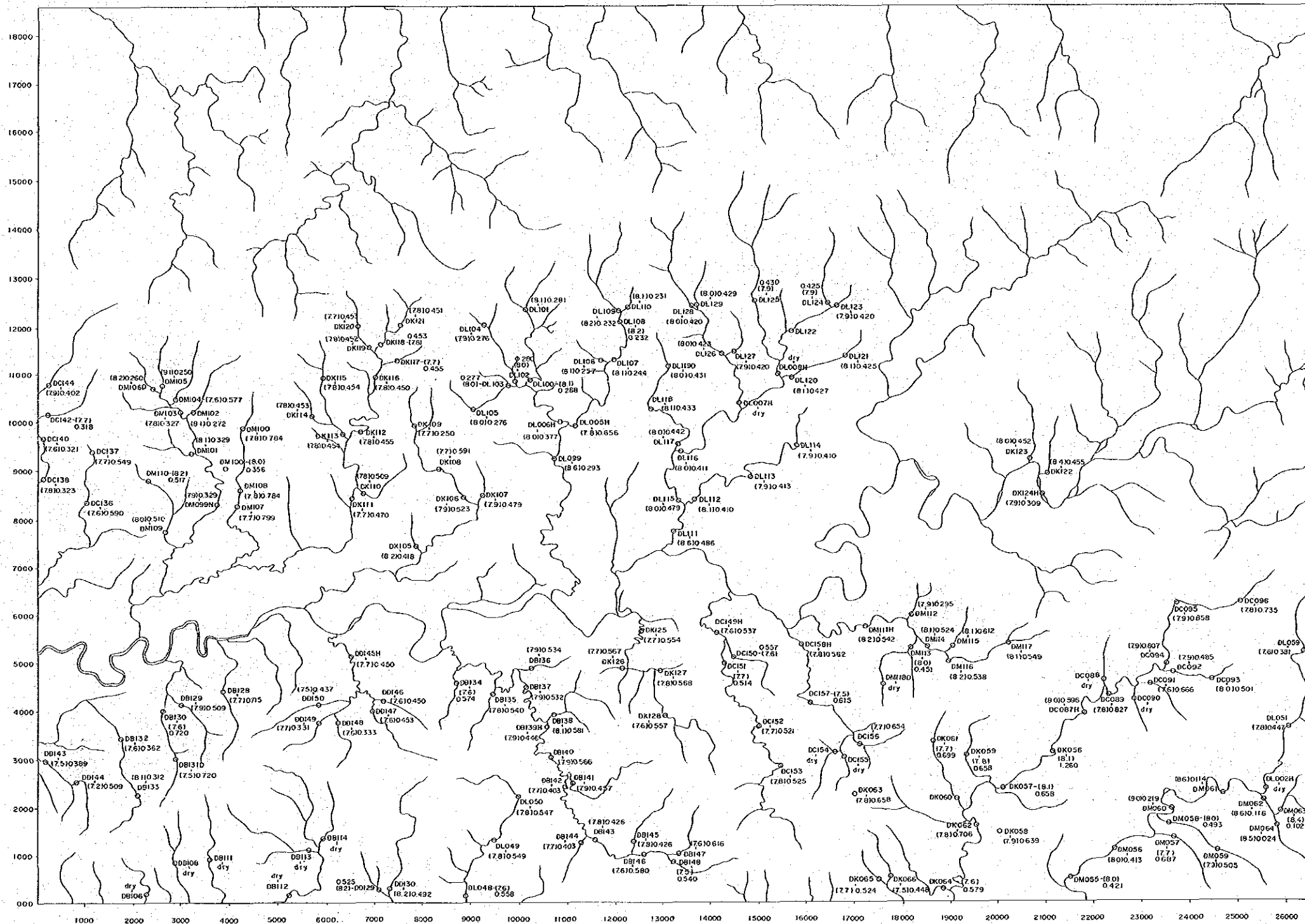


LEGEND



CAPISAYAN

SHEET 3374 II

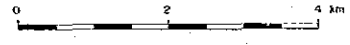


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サンプル採取位置・pH値・電気伝導度図

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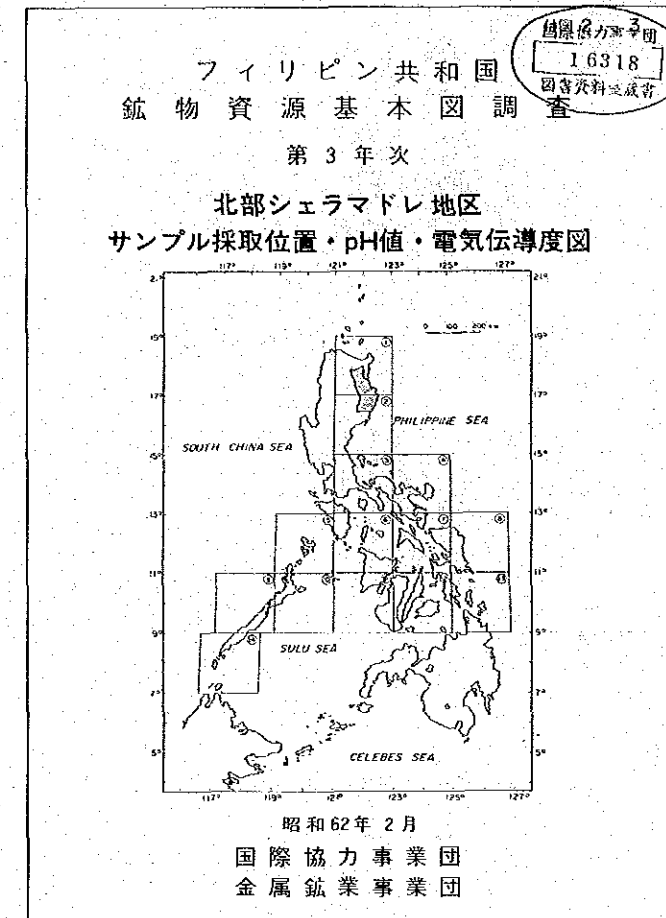
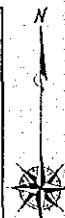
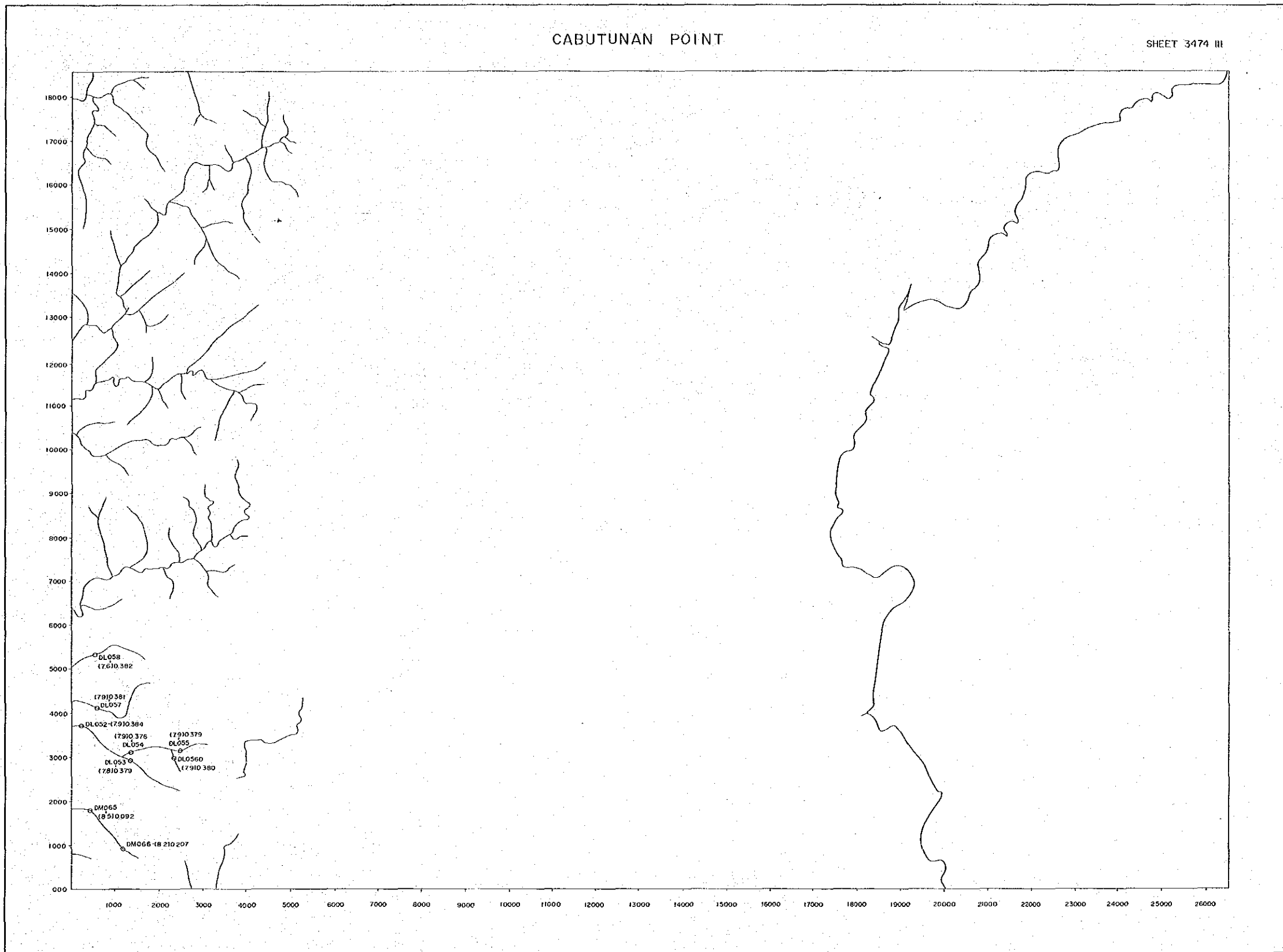
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LEGEND

- : 河床堆積物・重鉱物 サンプル採取位置
- (7.0) : pH値
- 0.280 : 電気伝導度 (μS/cm)
- [B-48] : 室内試験サンプル採取位置

3374 W	3374 E	3374 S	3374 N
3375 W	3375 E	3375 S	3375 N
3376 W	3376 E	3376 S	3376 N
3377 W	3377 E	3377 S	3377 N
3378 W	3378 E	3378 S	3378 N
3379 W	3379 E	3379 S	3379 N
3380 W	3380 E	3380 S	3380 N
3381 W	3381 E	3381 S	3381 N
3382 W	3382 E	3382 S	3382 N
3383 W	3383 E	3383 S	3383 N
3384 W	3384 E	3384 S	3384 N
3385 W	3385 E	3385 S	3385 N
3386 W	3386 E	3386 S	3386 N
3387 W	3387 E	3387 S	3387 N
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3389 W	3389 E	3389 S	3389 N
3390 W	3390 E	3390 S	3390 N



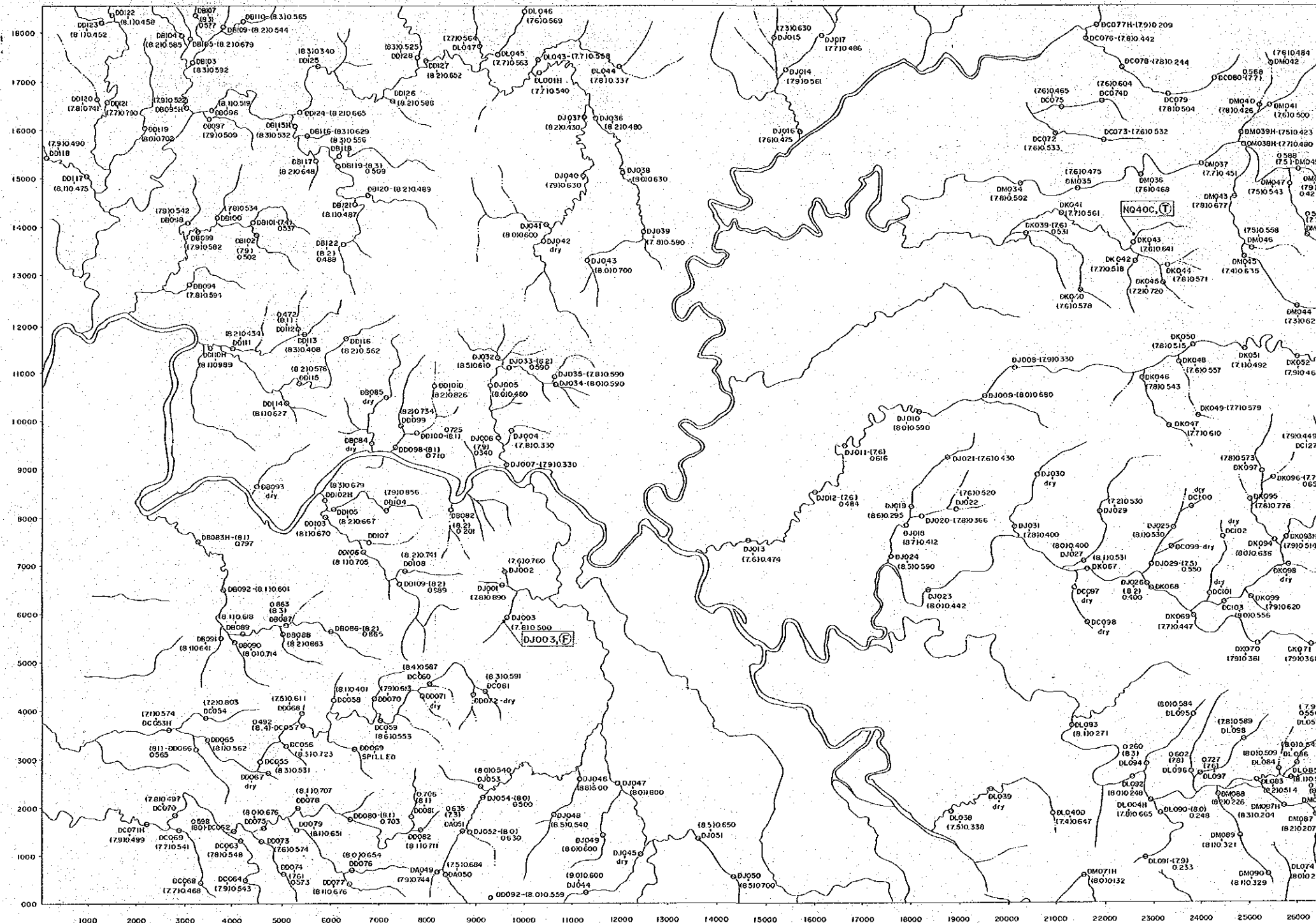
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3370 II	3374 R	3474 II
GATIANAN	CAPISAN	CABUTUNAN POINT
3373 IV	3373 I	3473 IV
FAIRE	BOGGAS	EMIN PLAGE
3373 III	3373 II	3473 III
ICUIG	CALLAO	SAGOP POINT
3372 IV	3372 I	3472 IV
TULESUN	PENA-RELANCA	LOGOG POINT
3372 II	3472 II	3472 II
CARAGAN	BOZAYAN RIVER	POGGEROY RIVER
3371 I	3471 IV	3471 I
TAMARAN	BIKANT	GOALACAN BEACH
3371 II	3471 III	3471 II
ILAGAN	LUPIGUE	PALANAN
3370 I	3470 II	3470 I
CAUAYAN	SAN MARIANO	PASUBAN RIVER
3370 III	3470 III	3470 III
SANTOS	BOJASAN	SURSAO POINT
3369 IV	3369 I	3468 I
JONES	ORILLO	PORT OSCAR POINT

- : 河床堆積物・重鉱物・サンプル採取位置
- (7.0) : pH値
- 0.280 : 電気伝導度 ($\mu S/cm$)
- [B-48] : 案内試験サンプル採取位置

BAGGAO

SHEET 3373.1

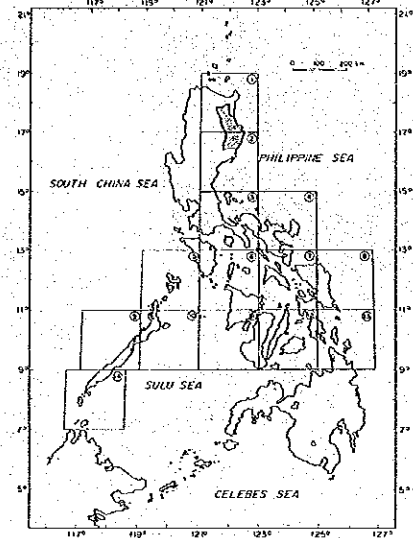


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北部シラマドレ地区
サンプル採取位置・pH値・電気伝導度図



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Scale 1:50,000



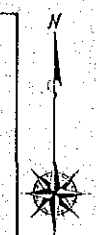
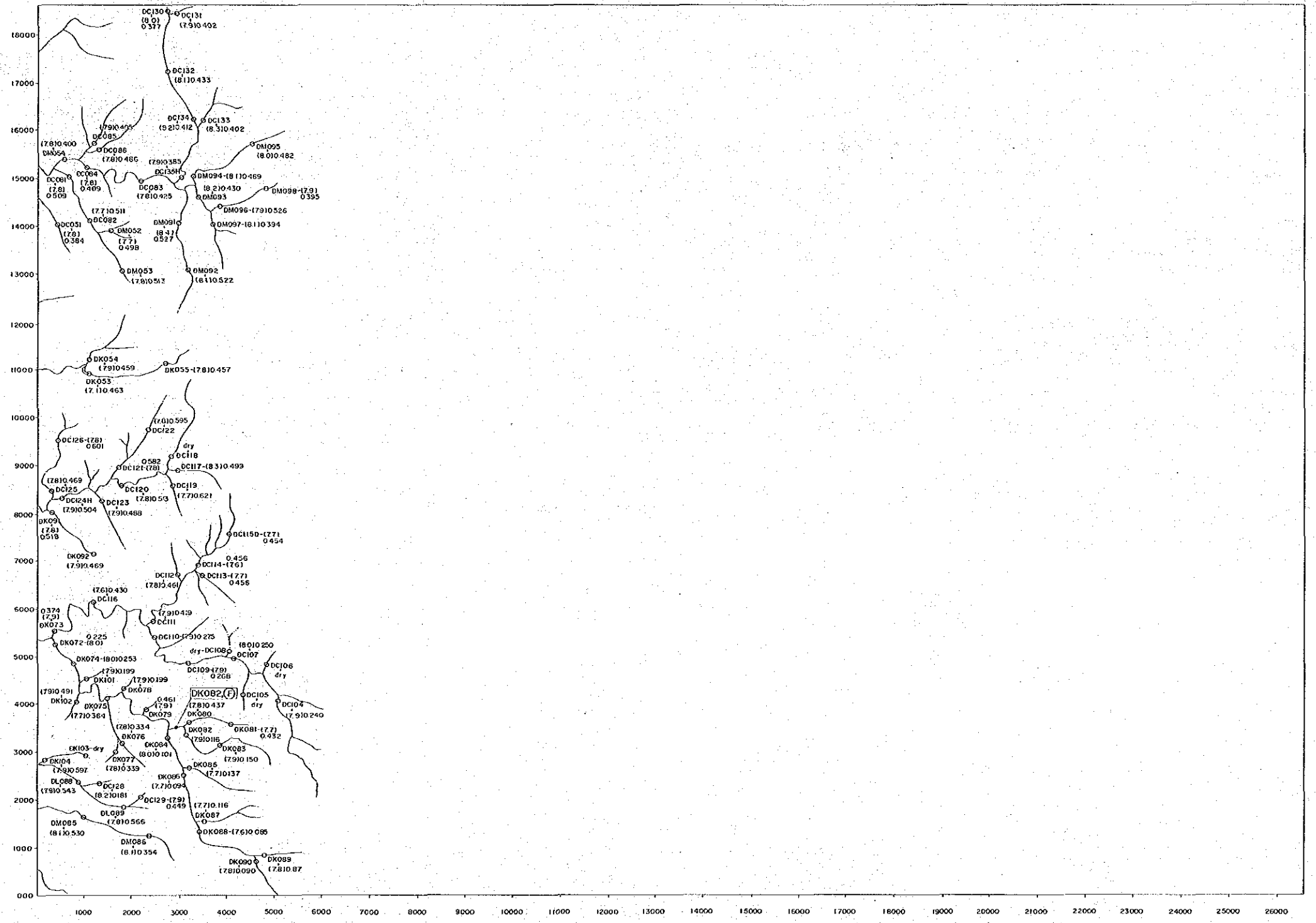
LEGEND

- 河床堆積物・重鉱物 サンプル採取位置
- (7.0) pH値
- 0.280 電気伝導度 (μS/cm)
- [B-48] 室内試験サンプル採取位置

3372 II CATIBAN POINT	3374 II CAGAYAN POINT	3376 II BAGGAO TWIN PEAKS
3373 II 10UG CALLAO POINT	3375 II 10UG CALLAO POINT	3377 II 10UG CALLAO POINT
3378 II 10UG CALLAO POINT	3379 II 10UG CALLAO POINT	3380 II 10UG CALLAO POINT
3379 II 10UG CALLAO POINT	3381 II 10UG CALLAO POINT	3382 II 10UG CALLAO POINT
3370 II SANTAGO PASSAY	3371 II SANTAGO PASSAY	3372 II SANTAGO PASSAY
3373 II SANTAGO PASSAY	3374 II SANTAGO PASSAY	3375 II SANTAGO PASSAY
3376 II SANTAGO PASSAY	3377 II SANTAGO PASSAY	3378 II SANTAGO PASSAY
3379 II SANTAGO PASSAY	3380 II SANTAGO PASSAY	3381 II SANTAGO PASSAY

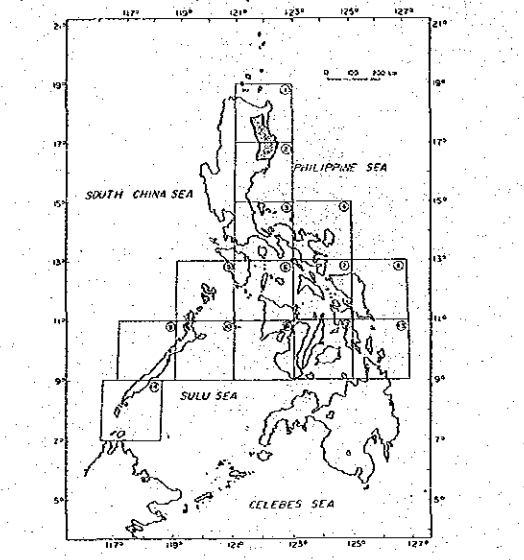
TWIN PEAKS

SHEET 3473 IV



フィリピン共和国
 鉱物資源基本図調査
 第3年次
 北部シェラマドレ地区
 サンプル採取位置・pH値・電気伝導度図

図幅20km 6割
 16318
 調査資料作成



昭和62年2月
 国際協力事業団
 金属鉱業事業団

Scale 1:50,000
 0 2 4 km

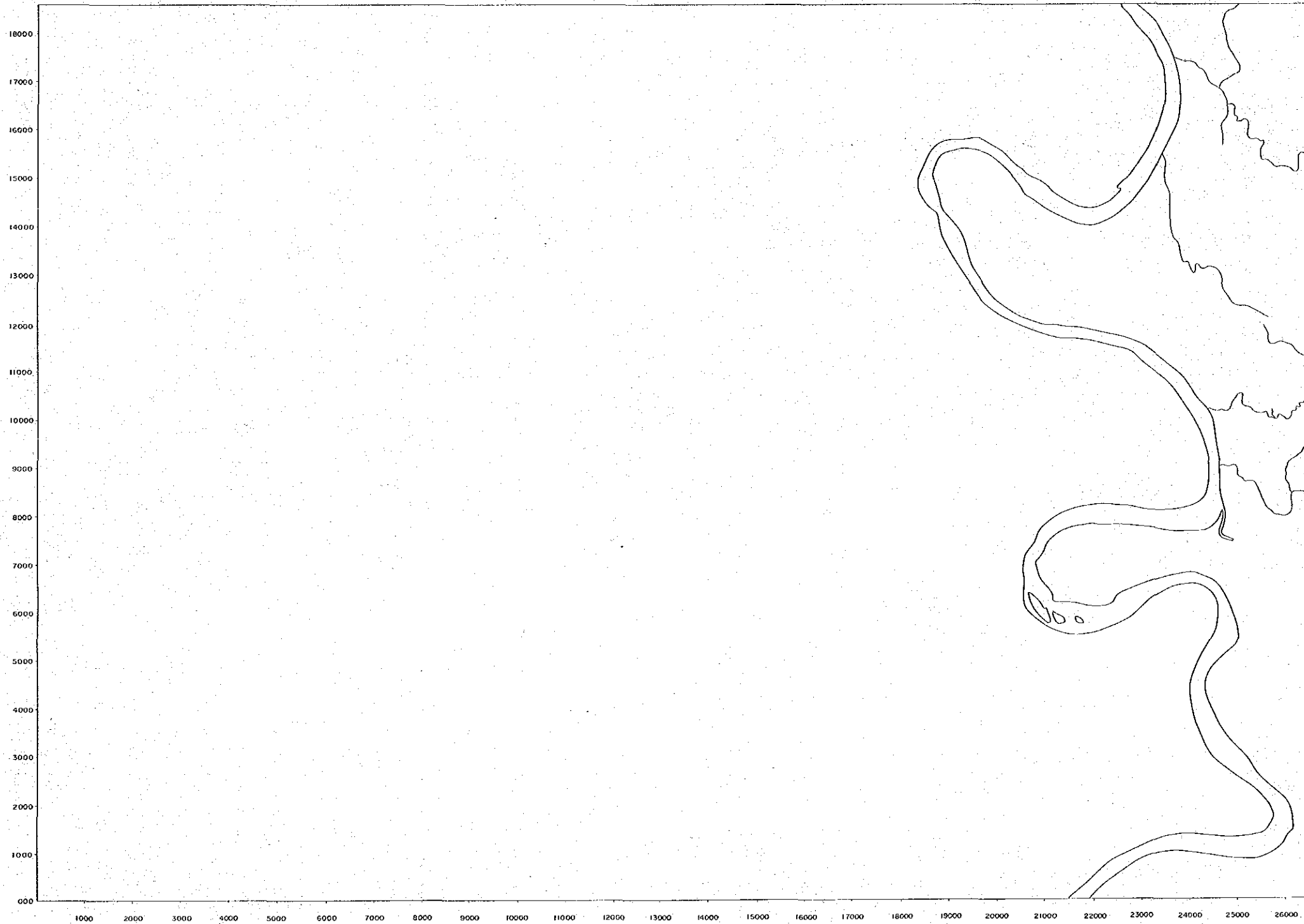
LEGEND

- 河床堆積物・重鉱物 サンプル採取位置
- (7.0) : pH値
- 0.280 : 電気伝導度 (μS/cm)
- [B-4B] : 室内試験サンプル採取位置

3374 W	3374 N	3374 E
GATTARAN	CANANGAN	CABUNTUAN
3375 W	3375 N	3375 E
FAIRE	BAROGAO	TWIST
3376 W	3376 N	3376 E
IGUNG	GALLAO	BAROGAO
3377 W	3377 N	3377 E
SURIGUON	PETA	LOBOS
3378 W	3378 N	3378 E
CARIGAN	OGATEVA	BRANGAYAN
3379 W	3379 N	3379 E
TRAMINA	MOONT	MOONT
3380 W	3380 N	3380 E
ILAGAN	LUPIGUE	PALANAN
3381 W	3381 N	3381 E
CAMAYAN	SAN	PANGGARAN
3382 W	3382 N	3382 E
SANTAGO	PIRESAY	BUAYAN
3383 W	3383 N	3383 E
JONES	ORILJAN	MOONT

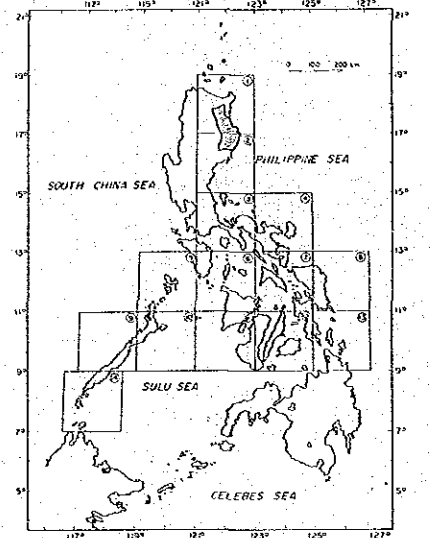
IGUIG

SHEET 3373 III



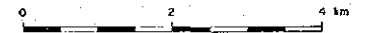
フィリピン共和国
 鉱物資源基本図調査
 第3年次
 北部シェラマドレ地区
 サンプル採取位置・pH値・電気伝導度図

付録2の7の用
 16318
 国産資料交換書



昭和62年2月
 国際協力事業団
 金属鉱業事業団

Scale 1 : 50,000



LEGEND

3374 II	3374 K	3374 N	3374 O
GATTARAN	CAPULAN	KARUBUN	POHJ
3373 IV	3373 I	3373 IV	3373 V
FAIRE	BAGGAO	EMU	PLANG
3373 II	3373 R	3373 H	
IGUIG	CALLEO	BOGOD	POANG
3372 IV	3372 I	3372 N	3372 O
FLORIANO	PERA	ORON	POANG
	BLANCA		
3372 II	3372 M	3372 B	
CABAGAN	OKATAGAN	POGONAN	
3371 I	3371 IV	3371 V	
TUMUANG	MIDNIT	SPILACAN	
	CRESTA	ELAN	
3371 II	3371 M	3371 B	
LAGAN	LUPKOE	PALANAN	
3370 I	3370 IV	3370 I	
CAVATZEN	SAN MARINO	MANCAYAN	
3370 II	3370 H	3370 B	
SANTOGO	PASSAY	BUNZAN	LURBAN
			POANG
3369 IV	3369 I	3369 IV	3369 I
JONES	DIBALUN	AMOUNT	MOONT
			MOONT

- : 河床堆積物・重鉱物 サンプル採取位置
- (70) : pH値
- 0.280 : 電気伝導度 (μ S/cm)
- B-48 : 室内試験サンプル採取位置