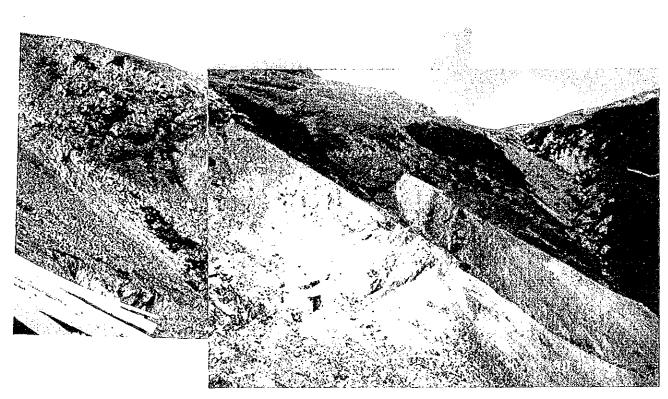
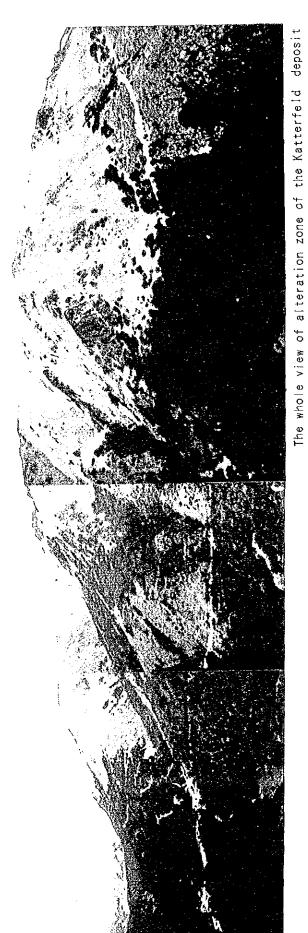
# PHOTOGRAPHS



Main entrance to stope of the El Toqui mine

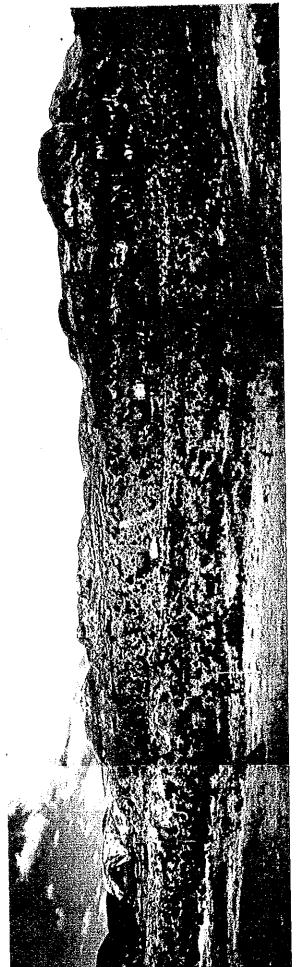


Out crop of ore in Santa Teresa deposit



Silicified zone of the Katterfeld deposit





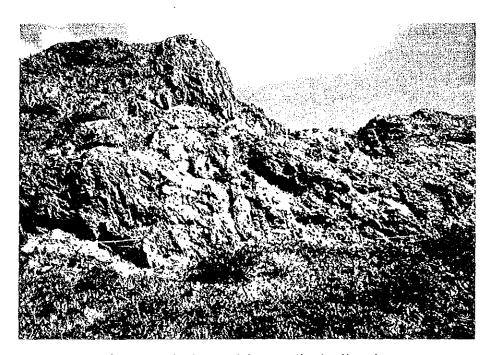
Whole view of the La Poza



A mode of occurence of ore in La Poza deposit



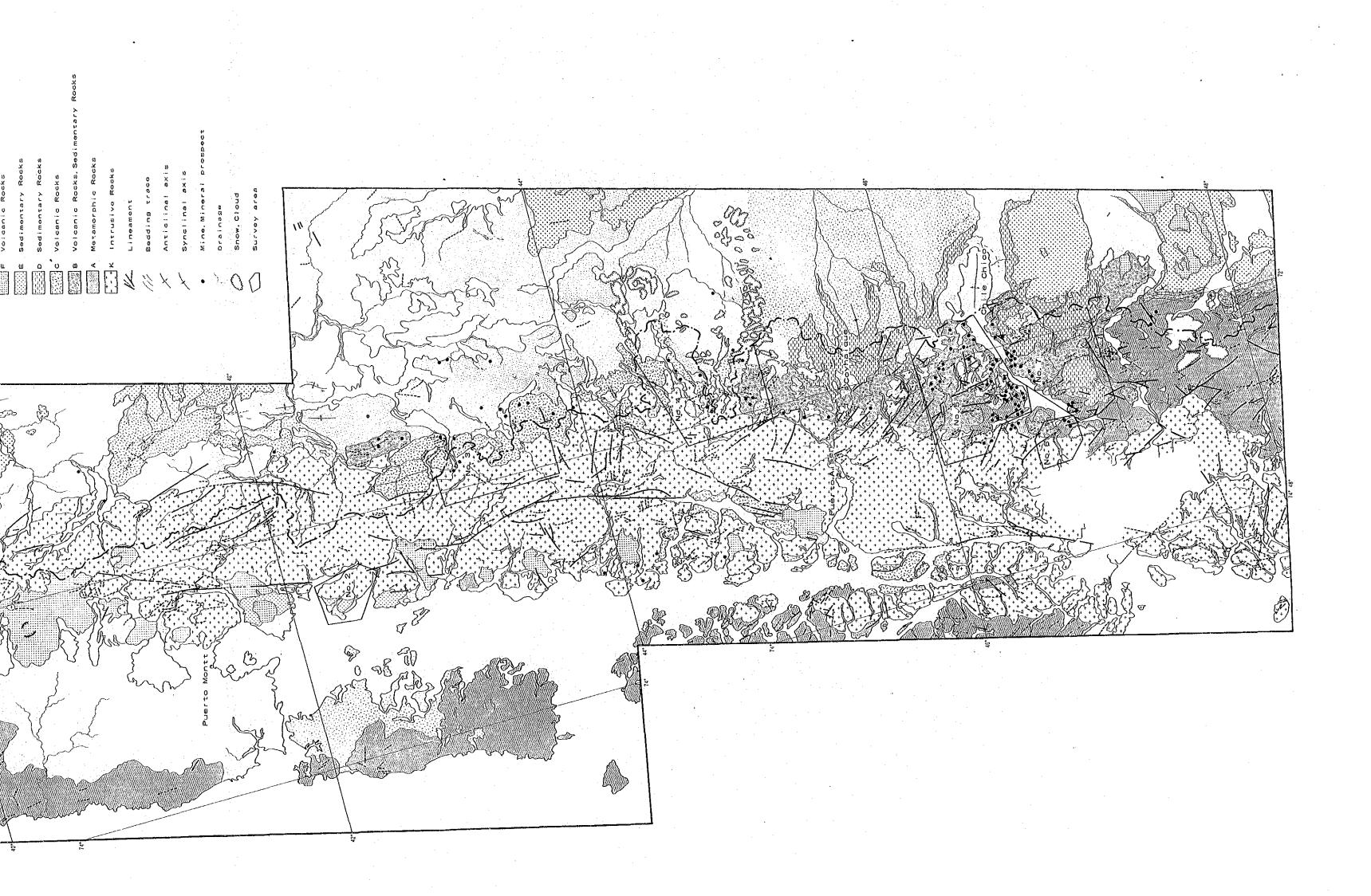
Silicified alteration zone in Laguna Verde diposit

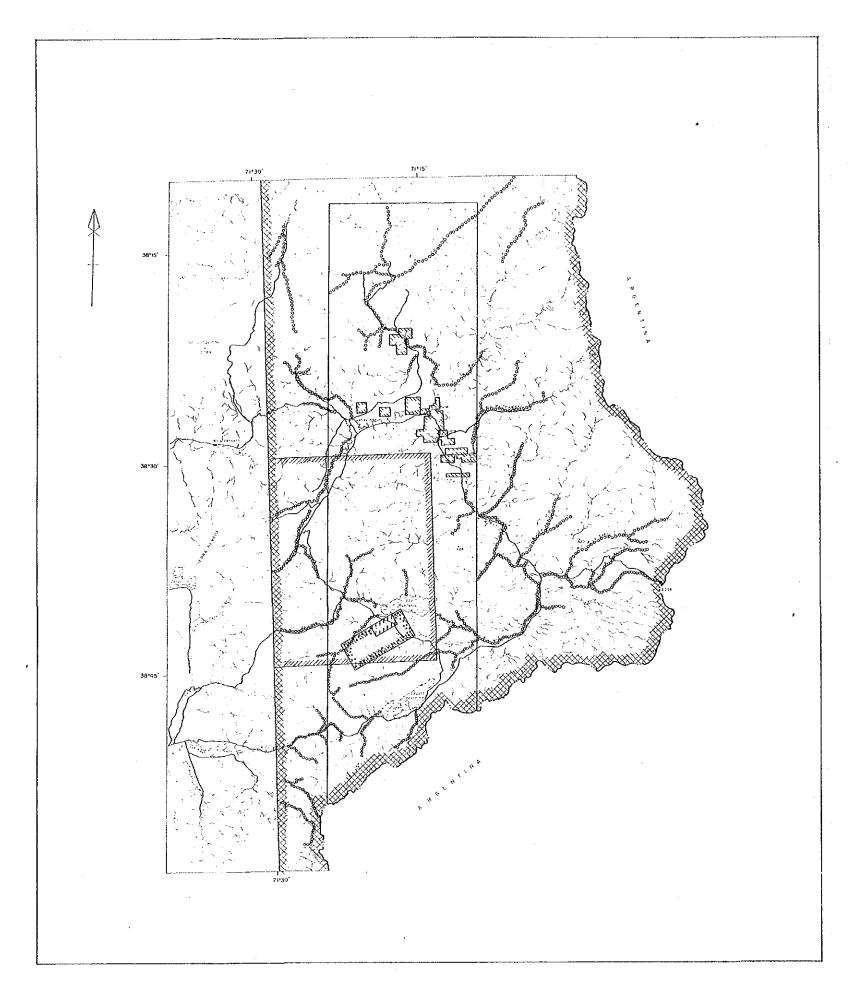


feature of views of Laguna Verde diposit



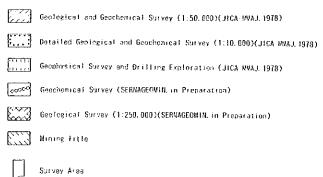




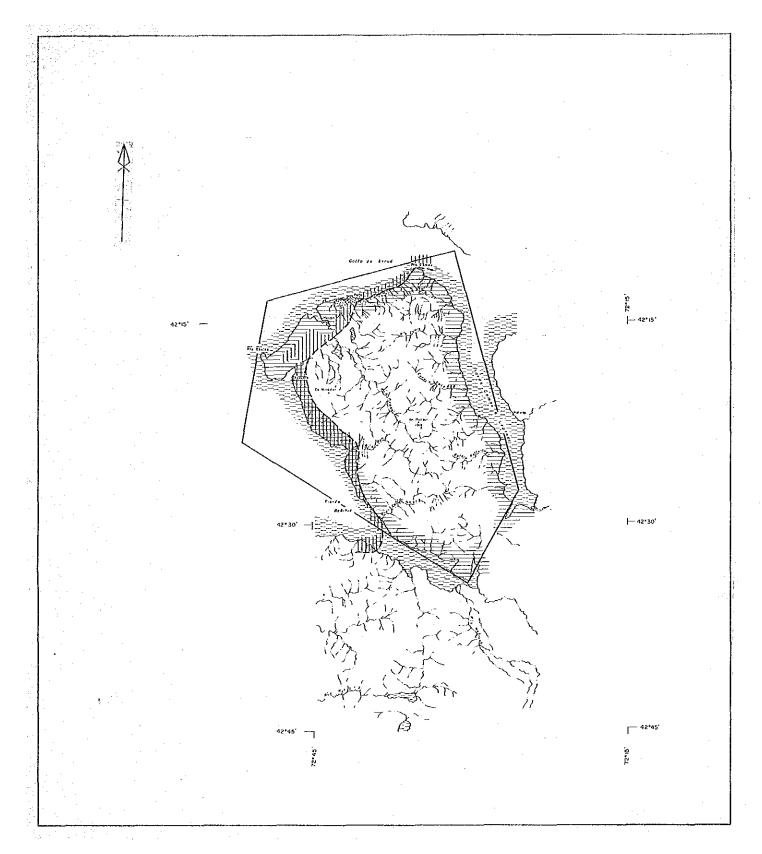


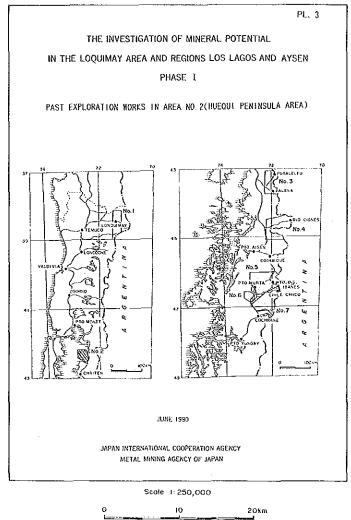
# THE INVESTIGATION OF MINERAL POTENTIAL IN THE LOQUIMAY AREA AND REGIONS LOS LAGOS AND AYSEN PHASE 1 PAST EXPLORATION WORKS IN AREA NO. 1 (LONQUINAY AREA) JUNE 1993 JAPAN INTERNATIONAL COOPERATION AGENCY METAL MINING AGENCY OF JAPAN

## LEGEND



Scale 1:250,000





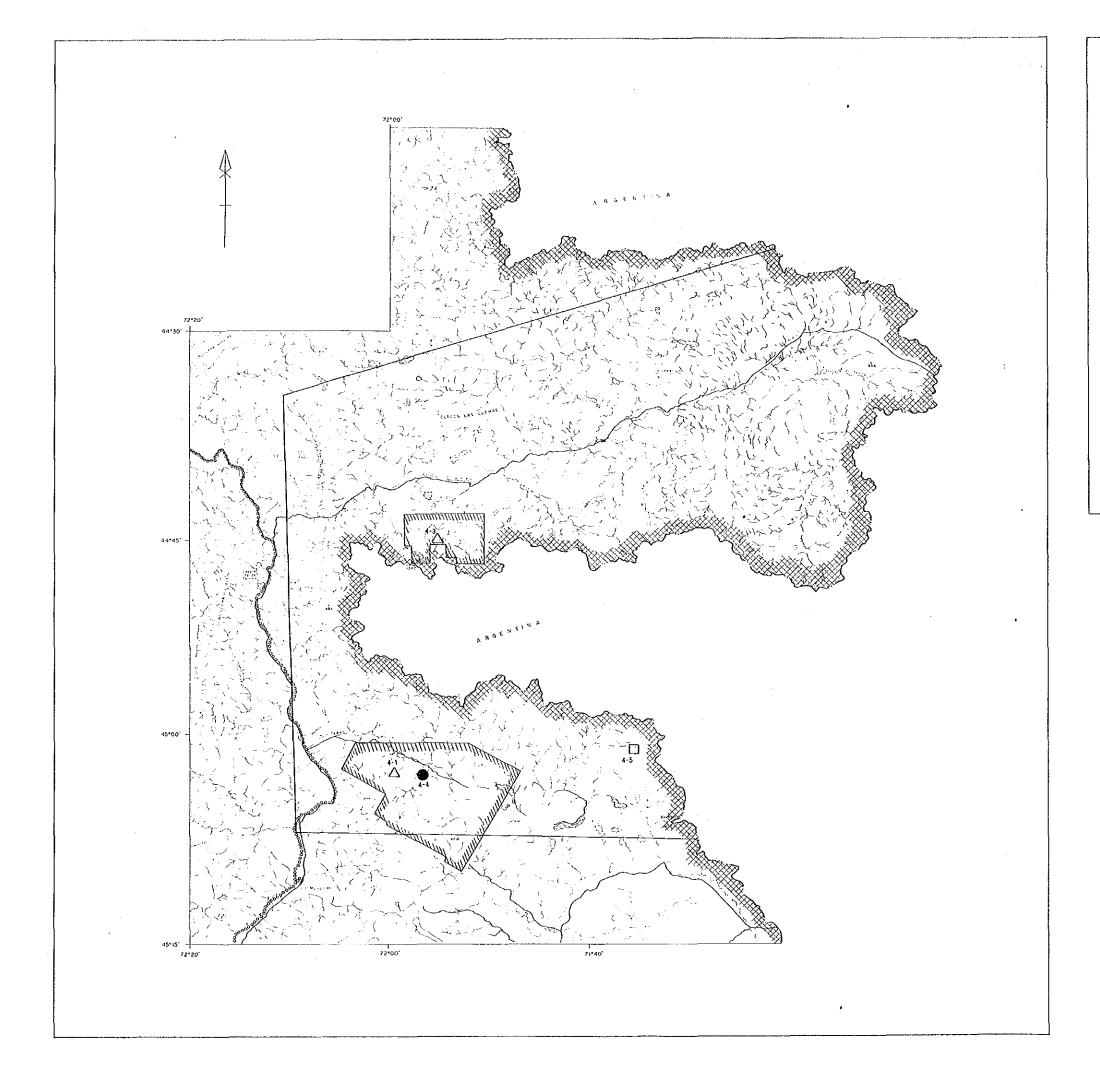
# LEGEND

Geochemical Survey (1:500,000)(116,1966)

Geochemical Survey

Air=Borne Magnetic Survey (ENAP. 1962)

Survey Area



# PL. 4 THE INVESTIGATION OF MINERAL POTENTIAL IN THE LOQUIMAY AREA AND REGIONS LOS LAGOS AND AYSEN PHASE I PAST EXPLORATION WORKS IN AREA NO 4(ALTO CISNES-EL TOQUI AREA)

0001 BMUL

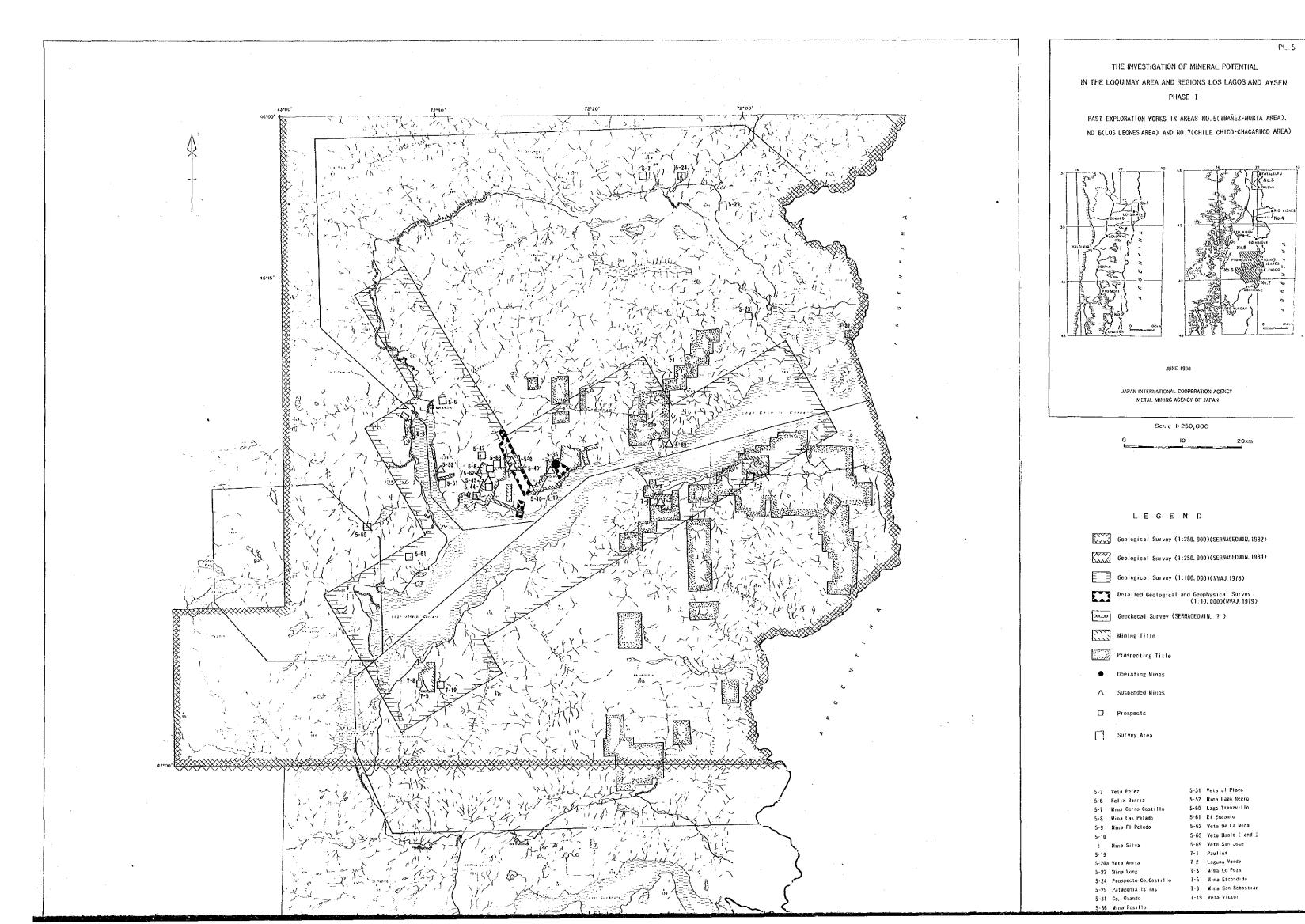
JAPAN INTERNATIONAL COOPERATION AGENCY METAL MINING AGENCY OF JAPAN

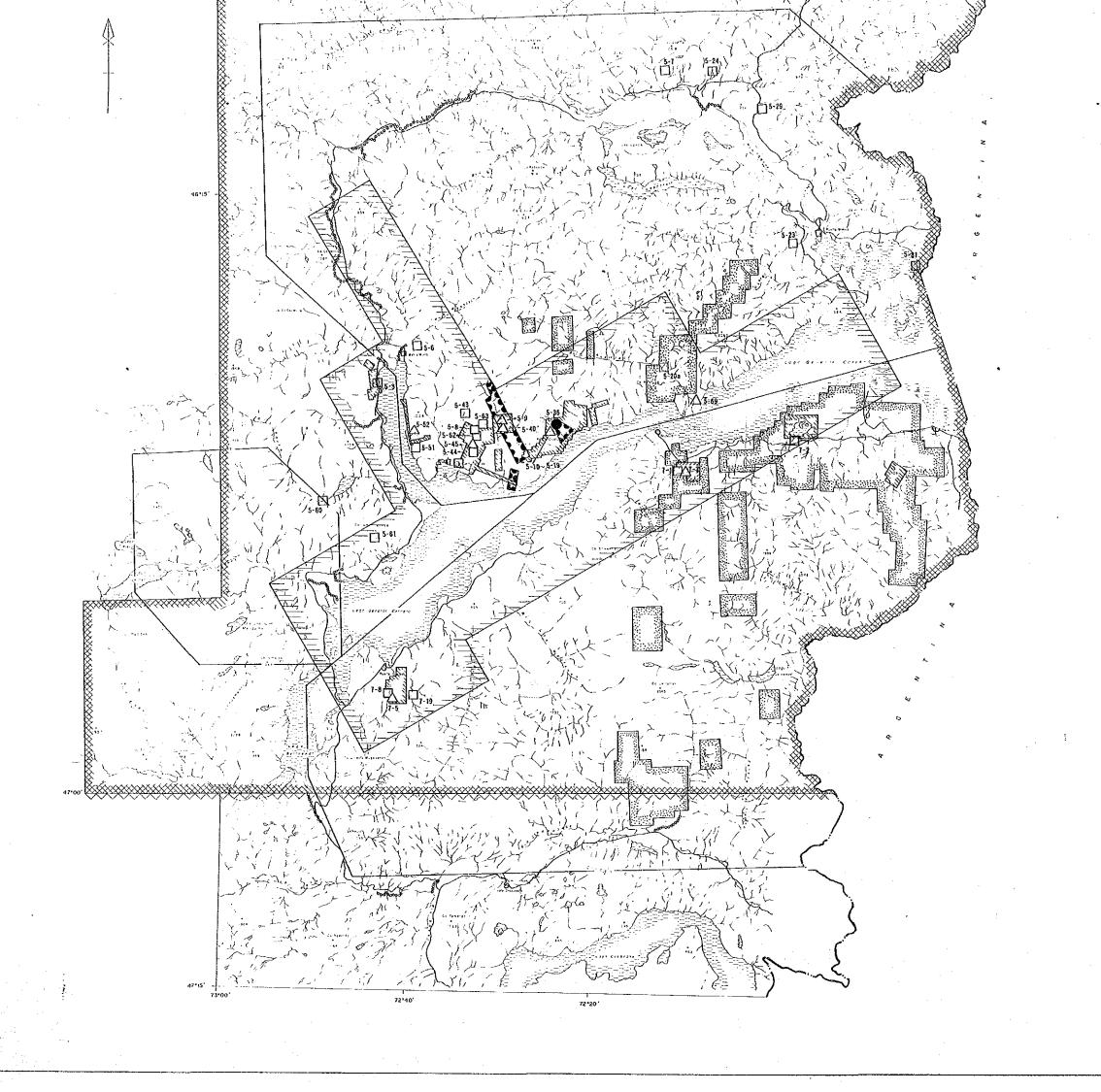
Scale 1: 250,000

# LEGEND

- Geological Survey (1:250, 000)(SFRNAGEOMIN. 1983)
- Geochemical Survey (SERNAGEOMIN. ? )
- Mining Title
- Operating Mines
- △ Suspended Mines
- ☐ Mines under Exploration
- Survey Area

- 4-1 Co.Estatuas 4-3 Santa Teresa 4-4 El Tozon 4-5 Katterfeld





- MAST EXPEDITATION WORKS IN AREAS NO.5(IBANEZ-MURTA AREA). NO.6(LOS LEONES AREA) AND NO.7(CHILE CHICO-CHACABUCO AREA) JUNE 1990 JAPAN INTERNATIONAL COOPERATION AGENCY METAL MINING AGENCY OF JAPAN

Scale 1: 250,000

# LEGEND

Geological Survey (1:250,000)(SERNAGEOMIN, 1982)

Geological Survey (1:250,000)(SERNAGEOMIN, 1984)

Geological Survey (1:100,000)(MMAJ,1978)

Detailed Geological and Geophysical Survey (1:10,000)(MMAJ,1919)

5-51 Veta el Plomo

5-61 El Encanto

5-52 Mina Lago Negro 5-60 Lago Tranzvillo

5-62 Veta De La Mona

5-69 Veta San Jose

7-2 Laguna Verde

7-3 Mina to Poza

7-19 Veta Victor

7-5 Mina Escondida 7-8 Mina San Sebastian

5-63 Yeta Hualo 1 and I

∞∞∞ Geochecal Survey (SERNAGEOMIN. ? )

Mining Title

Prospecting Title

Operating Mines

☐ Prospects

Survey Area

5-3 Vota Perez

5-6 Felix Barria

5-7 Mina Cerro Castillo

5-8 Mina Las Pelado

5-9 Wina Fl Pelado

5-10 1 Mina Silva

5-19

5-20a Yeta Anita

5-23 Mina Long

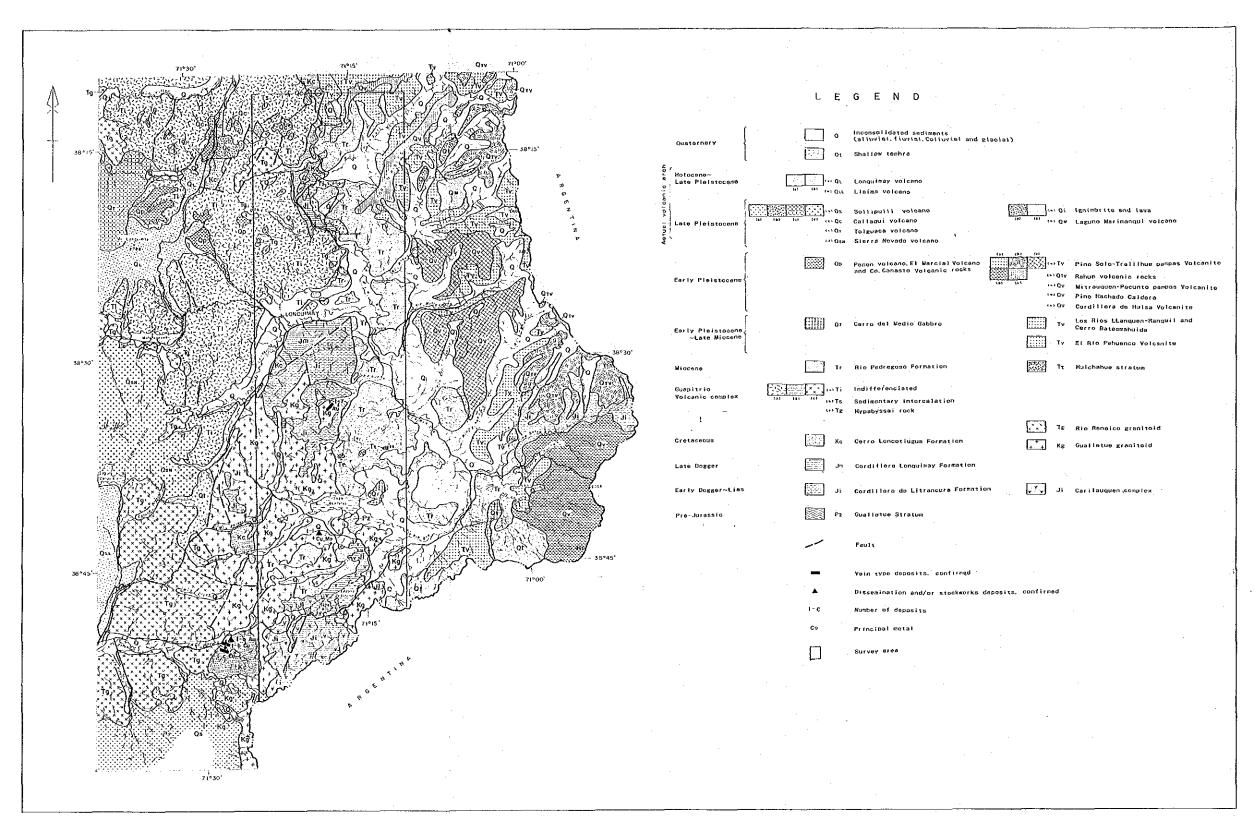
5-24 Prospecto Co. Castillo 5-29 Patagonia Is las

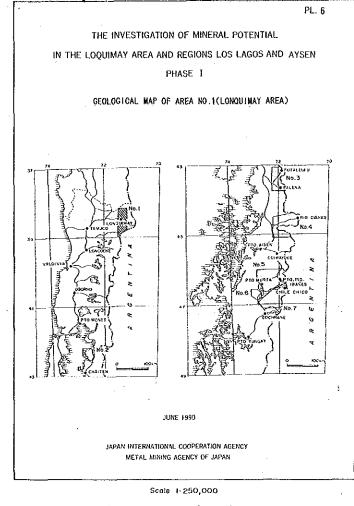
5-31 Co. Ovando 5-36 Wina Rosillo 5-40 Wina Del Bajic

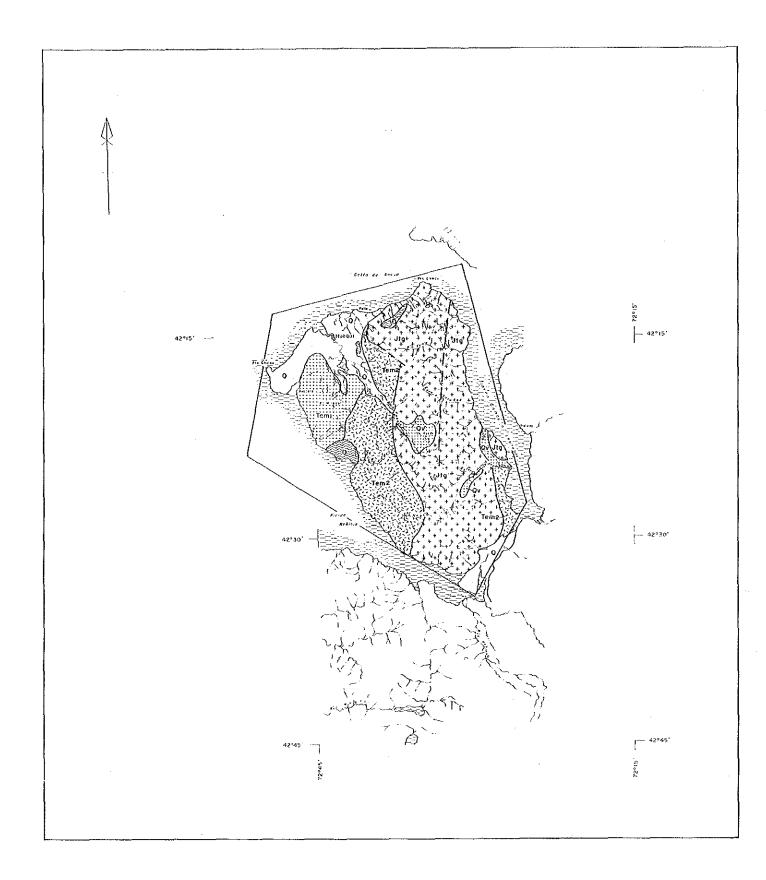
5-43 Farelion Sanchez

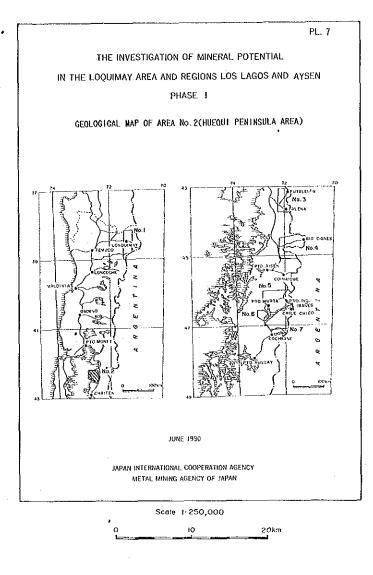
5-44 Veta el Liano

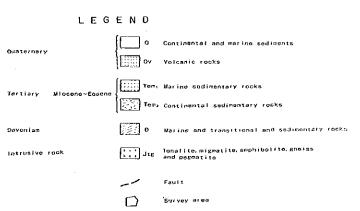
5-45 Las Mulas 5-47 El Flores

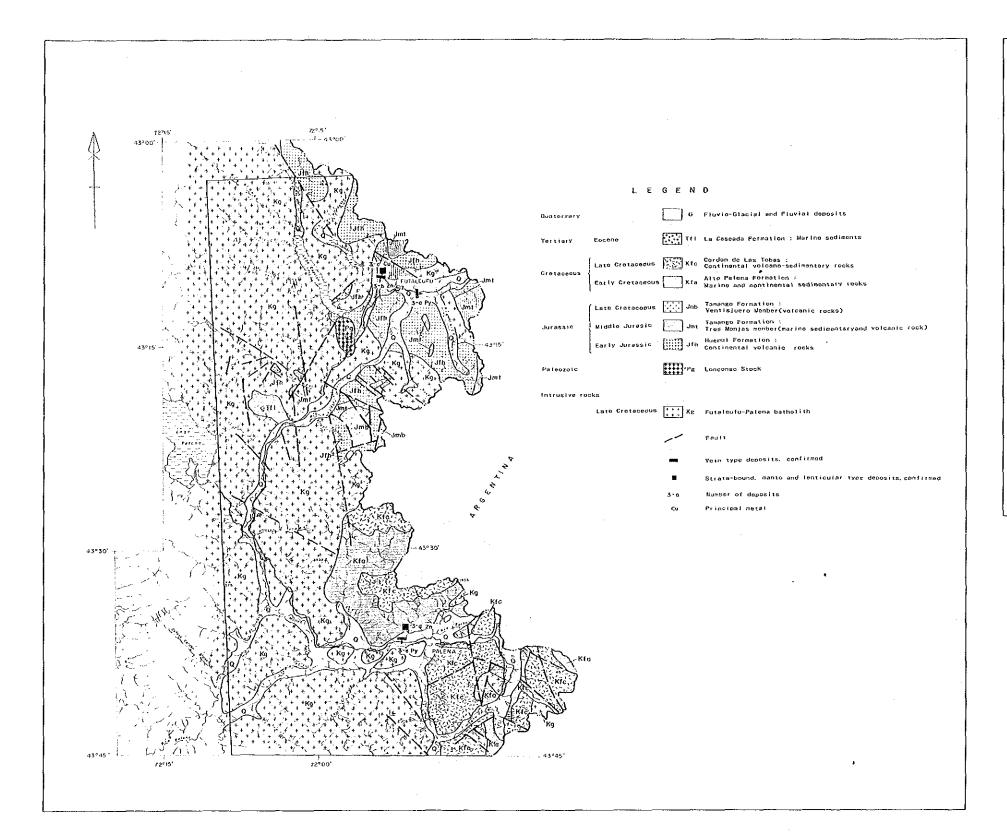












THE INVESTIGATION OF MINERAL POTENTIAL

IN THE LOQUIMAY AREA AND REGIONS LOS LAGOS AND AYSEN

PHASE I

GEOLOGICAL MAP OF AREA NO 3(FUTALEUFU-ALTO PALENA AREA)

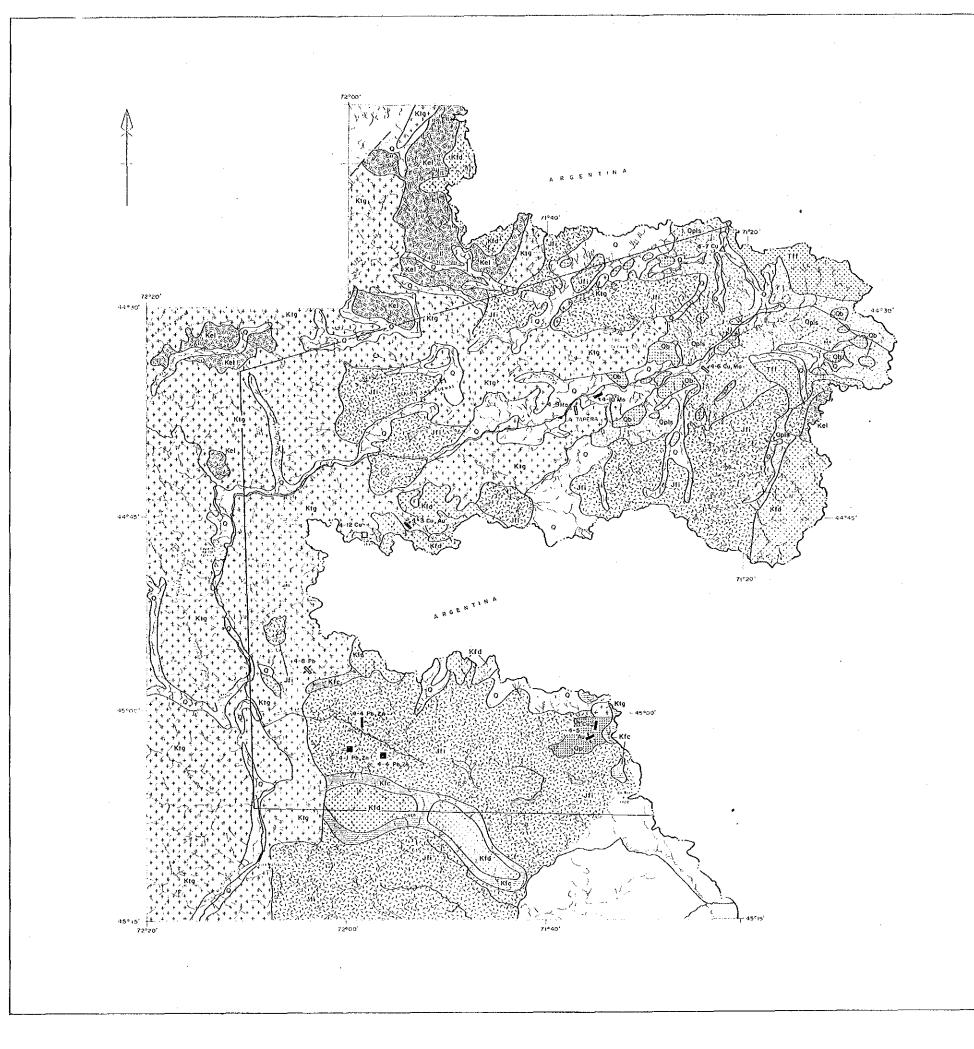
JUNE 1990

JAPAN INTERNATIONAL COOPERATION AGENCY

METAL MINING AGENCY OF JAPAN

Scale 1: 250,000

PL. 8

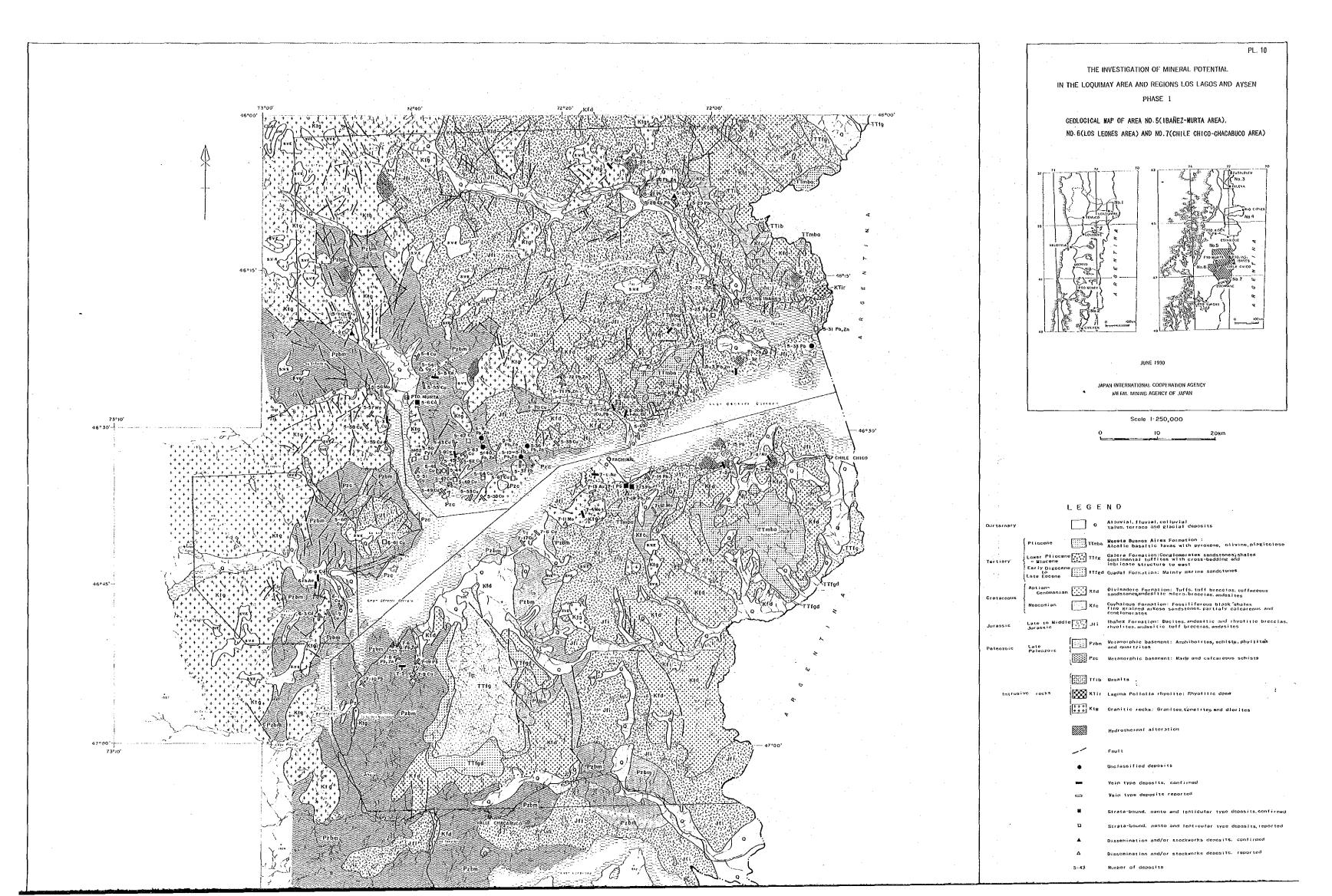


THE INVESTIGATION OF MINERAL POTENTIAL IN THE LOQUIMAY AREA AND REGIONS LOS LAGOS AND AYSEN PHASE [ GEOLOGICAL MAP OF AREA NO.4(ALTO CISNES-EL TOQUI AREA) JUNE 1990 JAPAN INTERNATIONAL COOPERATION AGENCY METAL MINING AGENCY OF JAPAN

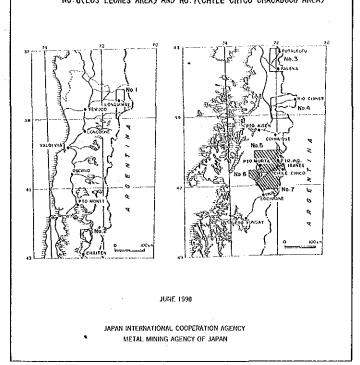
Scale 1:250,000

		L	. E G E	NU
	!	Kolocena	a	Fluvial attuvial and glacial deposits
Quaternary	Queternery	Picistocene	Op Is	Old fluvio-glacial deposits: Glacials and sands (semi-consolidated)
		riorstocene	0ъ	Las Naciontes del Rio Gisnes stratum : Basalts andesites
	Tertiary	Neogene	िंं गा	Prias Formation : Gravels semi-consolidated tuffs and tuffites
	Cretaceous	Lato Cretaccois	Kfd Kfd	Divisadero Formation : Dacites, andesites and tuffs
	Cretaceous	Neocomian to Lute Jurassio	Ke I	Lago Vide stratum : Green andesites, tuffs and lapilli tuffus
	Jurassic	Neocomian	Kfc	Coyhaique Fermation : Shales and sandstones
	Jurassic	Late jurașsic	Mil Mil	Ibanoz Formation : Rhyolites, dacite, andesites, tuffs, breeclas and sandstones
Intrusive rocks		ive rocks	### K18	Granitic rocks : Granites to gabbros
			Ор	Quartz porphyry
			/	Fault
			-	Vein type deposits, confirment
			_	Vein tyne deposits repolled

Survey area







Scale 1:250,000

O 10 20kg

			LEGE	N D
	Qurtarnary		a	Alluvial, fluvial, colluvial talus, terrace and glacial deposits
	:	Pliocene	Tīmba	Mesota Buenes Altes Formation : Alcalic basaltic lavas with pyroxeno, olivino plagloclass
	Tertiary'	Lower Pliocen ~ Miccene	٠٠٠٠ لمصما	Galera Formation:Conglomerates sandatones;shales continental toffites with cross-bedding and imbricate structure to east
	•:	Early Orgocen to Late Eccone	T1180	Guadaf Formation: Mainly marine sandstones
	Cretaccous -	Aptian~ Cenomanian	Kfa K	Divisadoro Formation: Tuffs, tuff breceias, tuffaceous sandstones,andesitic micro-breceias, andesites
		Neocomian	Kfe Kfe	Coyhaldus Formation: Fessiliferous black shales fine grained arkose sandstones, partialy calcareous and conglosorates
1	Jurassic	Late to Middl Jurassic	°E∰ JH	thanex Formation: Dacites andesitic and thyolitic breccia thyolites, andesitic tuff breccias, andesites
	Paleozoic	Late	Pzbm	Wetamorphic basement: Amohibolites, schists phyllites and quartrites
		Pa!eozoic	Pzc	Metamorphic basement: Mark and calcareous schists
			<b>1</b>	Basalts
	Intrusit	re rocks	KTII	Laguna Pollofla chyolite: Rhyolitic domo
	*.		(+++) Ktg	Granitic rocks: Granitos, tonatites and Otorites
	·			Hydrothermal alteration
				Fault
	•		•	Unclassified deposits
				Yein type deposits, confirmed
				Vein type deposits reported
			×	Streta-bound, manto and lenticular type deposits.confirme

Dissemination and/or stockworks deposits. re

Number of deposits

Principal metal

Survey area