

のほかの褶曲構造は認められない。

環状構造については、本地区では北東部・中央部・南部の3領域に環状構造が抽出された (Fig. II-2-33)。これらの環状構造の分布や規模は以下のとおりである。

北東部に分布するジュラ紀の火山岩類 (地質単元 ; Jmv) 中に認められる1箇所の環状構造の規模は、直径約5kmで陥没型を呈す。これらの周辺には変質帯が認められない。

中央部の Lago Fontana 北方に分布する白亜紀の火山岩類 (地質単元 ; Kiv) 中に認められる3箇所の環状構造のうち、最大のものが直径約6km、最小のものは直径2km程度で、全て陥没型を呈す。これらのうち、西側に位置する2箇所の環状構造の内部ないし周縁部には変質帯が抽出されている。東側の環状構造の周囲には変質帯が認められない。これらの環状構造はいずれも半環状を呈している。

南部の Lago Fontana 南部に分布する白亜紀の火山岩類 (地質単元 ; Kiv) 中に認められる2箇所の環状構造はいずれも直径約3kmの規模を有し陥没型である。東側の環状構造には変質帯が抽出されている。

1 2) Colelache 地域

a) 地質単元

本地域に分布する岩石と堆積物は合計で19種類の地質単元に区分された (Fig. II-2-36, Table II-2-13)。それらのうち、1種類の地質単元は古生代の主として片岩類に、4種類の地質単元はジュラ紀から第三紀までの堆積岩類に、6種類の地質単元はジュラ紀から第四紀までの火山岩類にそれぞれ対比可能である。また、3種類の地質単元は第四紀の未固結ないし半固結堆積物に相当する。これらのほか、4種類の地質単元は古生代・ジュラ紀・白亜紀・第三紀に生成した貫入岩体に対比可能である。なお、1種類の地質単元が変質帯と判定された。

b) 変質帯

本地域では中央部に分布する第三紀の火山岩類 (地質単元 ; Tiv) 中に5箇所の変質帯が抽出された (Fig. II-2-36, Table II-2-26)。これらの変質帯は、本地区の北西部に2箇所、中央部に1箇所および南西部に3箇所に分布し、変質帯の分布形態は一般に、楕円状または不規則なアレーバ状を呈している。最大規模のものは本地区北西部に分布する変質帯で、長軸方向には4kmの長さを有し、かつN-S及びNW-SE方向のリニアメントが交差している。

c) リニアメント

本地域から判読・抽出されたリニアメントは合計129本である (Fig. II-2-36)。これらのリニアメントの分布や方向については、本地区東部とそれ以外の領域とに分けられ、それらには以下のような特徴が認められた。

東部に分布するリニアメントは、さらに北部と南部の範囲に区別される。北部の範囲では Chubut 川の左岸沿いに NNE-SSW から NW-SE 方向に屈曲するリニアメントが発達する。これ

らのリニアメントは断続しながらも東側が隆起する同じセンスを持ち、全体の延長は 40km に達する。これらはジュラ紀の堆積岩類及び火山岩類（リニアメントの東側）と白亜紀の堆積岩類（リニアメントの西側）を境する。また、これらのリニアメントにほぼ直交する E-W 方向のリニアメントが古生代の花崗岩類、ジュラ紀の堆積岩類および火山岩類中にまとまって抽出された。

南部範囲では N-S 方向に伸長する複数のリニアメントが発達し、古生代の花崗岩類及びジュラ紀の火山岩類中に抽出された。これらのうち、2 本のリニアメントは西側が隆起するセンスを持ち、かつリニアメントの南端部がいずれも NW-SE 方向に転じる。リニアメントの最大延長は 25km である。

上記以外の領域では、ジュラ紀から白亜紀にかけての堆積岩類及び火山岩類中に多方向を示すリニアメントが抽出された。これらのリニアメントは NNE-SSW~NW-SE 方向を示す。E-W 系のリニアメントは極めて少ない。

d) 褶曲構造・環状構造

褶曲構造については、2 つの褶曲構造が抽出された。1 つは、北東部に分布するジュラ紀の堆積岩類（地質単元 ; Jis）中に認められた NNW-SSE 方向の向斜構造であり、ほかの 1 つは中央部に分布する第三紀の堆積岩類（地質単元 ; Tis1）中に認められた NE-SW 方向の背斜構造である。

環状構造については、2 つの環状構造が抽出された（Fig. II-2-36）。1 つは、中央部に位置する Colan Conhue の西方 30km に分布する第三紀前期の堆積岩類（地質単元 ; Tis1）中に位置し、直径 6 km 程度の規模を有する。なお、この環状構造の中心部には第三紀前期の堆積岩類を貫く第三紀中期の花崗岩類が分布するが、これらの周辺には変質帯は認められない。ほかの 1 つは、Colan Conhue の南南西方約 27km に分布する白亜紀後期の火山岩類（地質単元 ; Ksv）中に位置し直径 3 km の規模を有するが、付近に変質帯は認められない。

1 3) Buen Pasto 地域

a) 地質単元

本地域に分布する岩石と堆積物は合計で 20 種類の地質単元に区分された（Fig. II-2-39, Table II-2-14）。それらのうち、1 種類の地質単元は古生代の主として片岩類に、5 種類の地質単元はジュラ紀から第三紀までの堆積岩類に、7 種類の地質単元はジュラ紀から第四紀までの火山岩類にそれぞれ対比可能である。また、3 種類の地質単元は第四紀の未固結ないし半固結堆積物に相当する。

これらのほか、3 種類の地質単元は三畳紀、ジュラ紀及び白亜紀に生成した貫入岩体に対比可能である。なお、1 種類の地質単元が変質帯と判定された。

b) 変質帯

本地域には合計 7 箇所の変質帯が抽出された（Fig. II-2-39, Table II-2-27）。それらは西部に分布するジュラ紀の火山岩類（地質単元 ; Jmv）中に 2 箇所、白亜紀の火山岩類（地質単元 ; Kiv/Ksv）

Table II -2-13 Characteristics of photogeologic units of the Colelache area

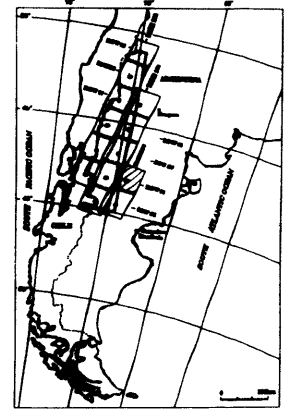
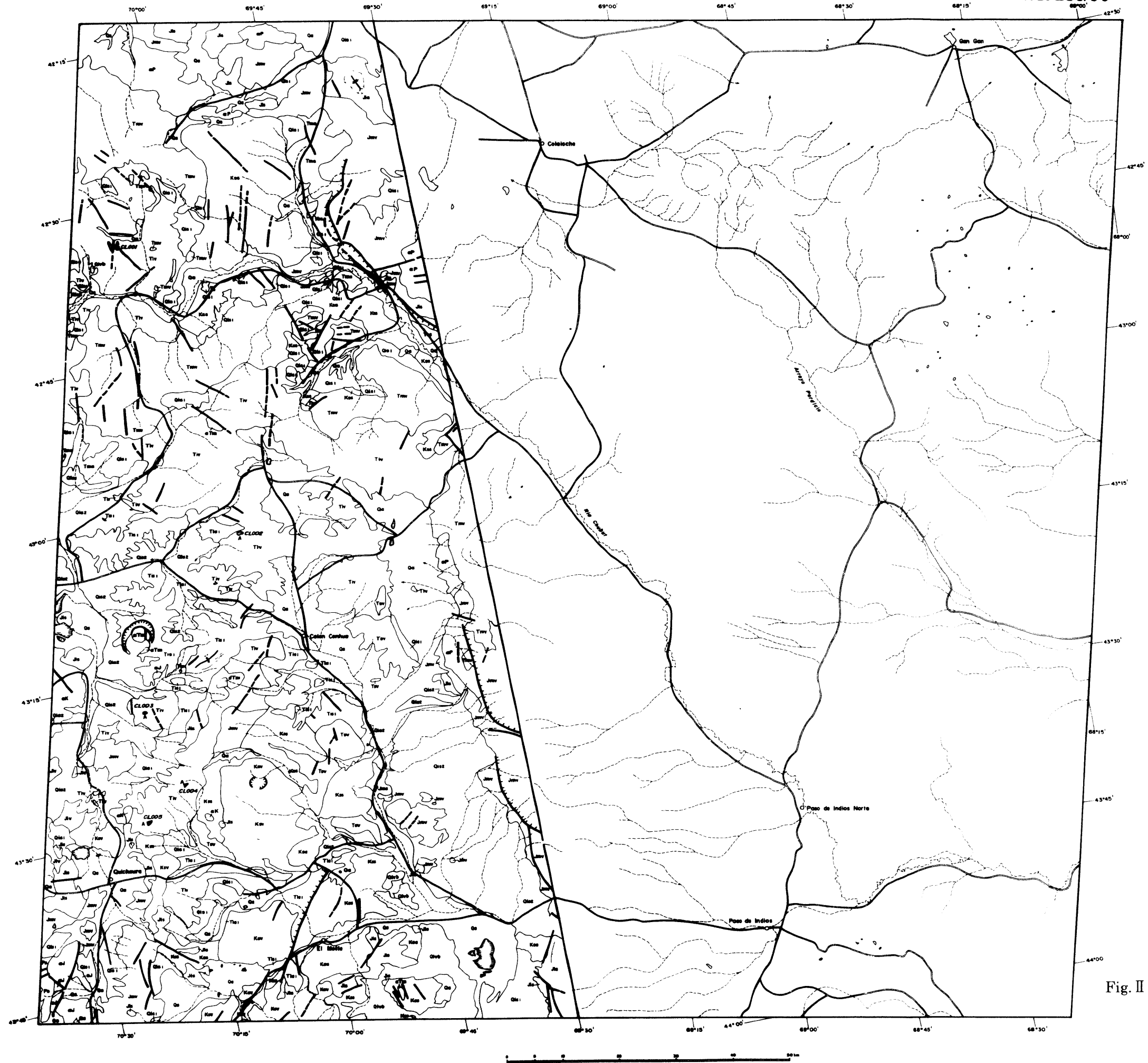
Unit	Photo-Characteristics		Morphologic Expression						Superficial Cover		Probable Lithology (Correlation with available Geologic Map)
	Tone	Texture	Drainage		Section	Bedding	Vegetation	Cultivation			
			Pattern	Density					Rock Resistance		
Qa	gray, purplish red, green	very fine	meandering	very low		none	partly dense	partly intense	Unconsolidated sediments composed of gravel, sand, silt and clay (Holocene : Recent alluvial deposits)		
Qis2	light gray	medium	sub-parallel	low		none	none	none	Glacial deposits (Pleistocene : Gracial deposits)		
Qis1	purplish	fine	sub-parallel	low		very gentle	rare	none	Unconsolidated sediments composed of gravel, sand, silt and clay (Pleistocene : Fluvial, talus deposits)		
Qivb	reddish brown	rough	radial	medium		none	none	none	Basic volcanic rocks (Pleistocene : Basalt, pyroclastic rocks)		
Tsv	brown	rough	sub-parallel	low		none	none	none	Volcanic rocks (Pliocene: Basalt and pyroclastic rocks)		
Tms	grayish purple	coarse-fine	sub-dendritic	low		rare	none	partly	Sedimentary rocks (Miocene: Continental sedimentary rocks, Collon Cura, Pedregoso Formation etc.)		
Tmv	brown	coarse	sub-dendritic	medium		massive	partly	rare	Mainly pyroclastic rocks (Miocene: Basaltic rocks, El Mirador Formation)		
Tiv	dark brown	coarse	sub-dendritic	medium-high		massive	dense	partly	Andesitic volcanic rocks(Eocene-Oligocene : Andesite, basalt and pyroclastic rocks)		
Tis1	brown, dark brown	coarse	sub-dendritic	medium		partly	none	none	Sedimentary rocks (Eocene-Oligocene: Continental sedimentary rocks, Sarmiento Formation etc.)		
Kss	gray	fine-medium	pinnate	medium		bedded	none	none	Fine to medium grained sedimentary rocks (Upper Cretaceous : Sandstone, mudstone, conglomerate)		
Ksv	brown, dark brown	medium	sub-dendritic	medium-high		massive	rare	none	Volcanic rocks (Upper Cretaceous: Basic volcanic rocks, Tres Picos Prieto Formation etc.)		
Jmv	brown	medium	sub-parallel	medium-high		massive	partly dense	none	Volcanic rocks (Middle-Upper Jurassic: Intermediate volcanic rocks, Lago La Plata, Lonco Trapia Formations etc.)		
Jis	brown	medium	sub-parallel	low-medium		partly	partly	none	Sedimentary rocks (Lower Jurassic: Marine and continental sedimentary rocks, Piltriquiron Formation etc.)		
Ps	dark gray	rough	sub-dendritic	high		schistose	none	none	Schistose rocks (Paleozoic : Phyllite, schist, gneiss and migmatite)		
α Tm	gray	coarse	sub-dendritic	medium		massive	none	none	Felsic igneous rocks (Miocene : Granite, granodiorite, tonalite and diorite)		
α K	brown	coarse	sub-dendritic	medium		massive	partly dense	none	Igneous rocks (Upper Cretaceous : Granitic rocks)		

Table II -2-13 Characteristics of photogeologic units of the Colelache area

Unit	Photo-Characteristics		Morphologic Expression				Superficial Cover		Probable Lithology (Correlation with available Geologic Map)	
	Tone	Texture	Drainage Pattern	Density	Rock Resistance	Section	Bedding	Vegetation		Cultivation
α J	brown	coarse	sub-dendritic rectangular	medium	high		massive	partly	none	Igneous rocks (Jurassic : Plutonic rocks and hypabyssal rocks)
α P	gray	coarse	sub-dendritic rectangular	medium	medium-high		massive	partly	none	Igneous rocks (Paleozoic : Plutonic rocks and hypabyssal rocks)
A	light gray	fine	none	low	low		none	none	none	Alteration Zone (Hydrothermal alteration zone)

Coelache

WR 230/90



Symbol	Description
(Symbol)	Boundary of photogeologic unit
(Symbol)	Alteration zone
(Symbol)	Lineament (certain)
(Symbol)	Lineament (uncertain)
(Symbol)	Annular structure
(Symbol)	Bedding trace
(Symbol)	Antiformal axis and its plunging direction
(Symbol)	Synclinal axis and its plunging direction
(Symbol)	Crater and its slope
(Symbol)	Drainage system
(Symbol)	Lake or dam
(Symbol)	Road
(Symbol)	Railway
(Symbol)	City and city area
(Symbol)	International boundary

LEGEND

- Geology/Structure**
- Boundary of photogeologic unit
- Alteration zone
- Lineament (certain)
- Lineament (uncertain)
- Annular structure
- Bedding trace
- Antiformal axis and its plunging direction
- Synclinal axis and its plunging direction
- Crater and its slope
- Geography/Infrastructure**
- Drainage system
- Lake or dam
- Road
- Railway
- City and city area
- International boundary

Fig. II -2-36 The Coelache area:
Photogeologic interpretation map

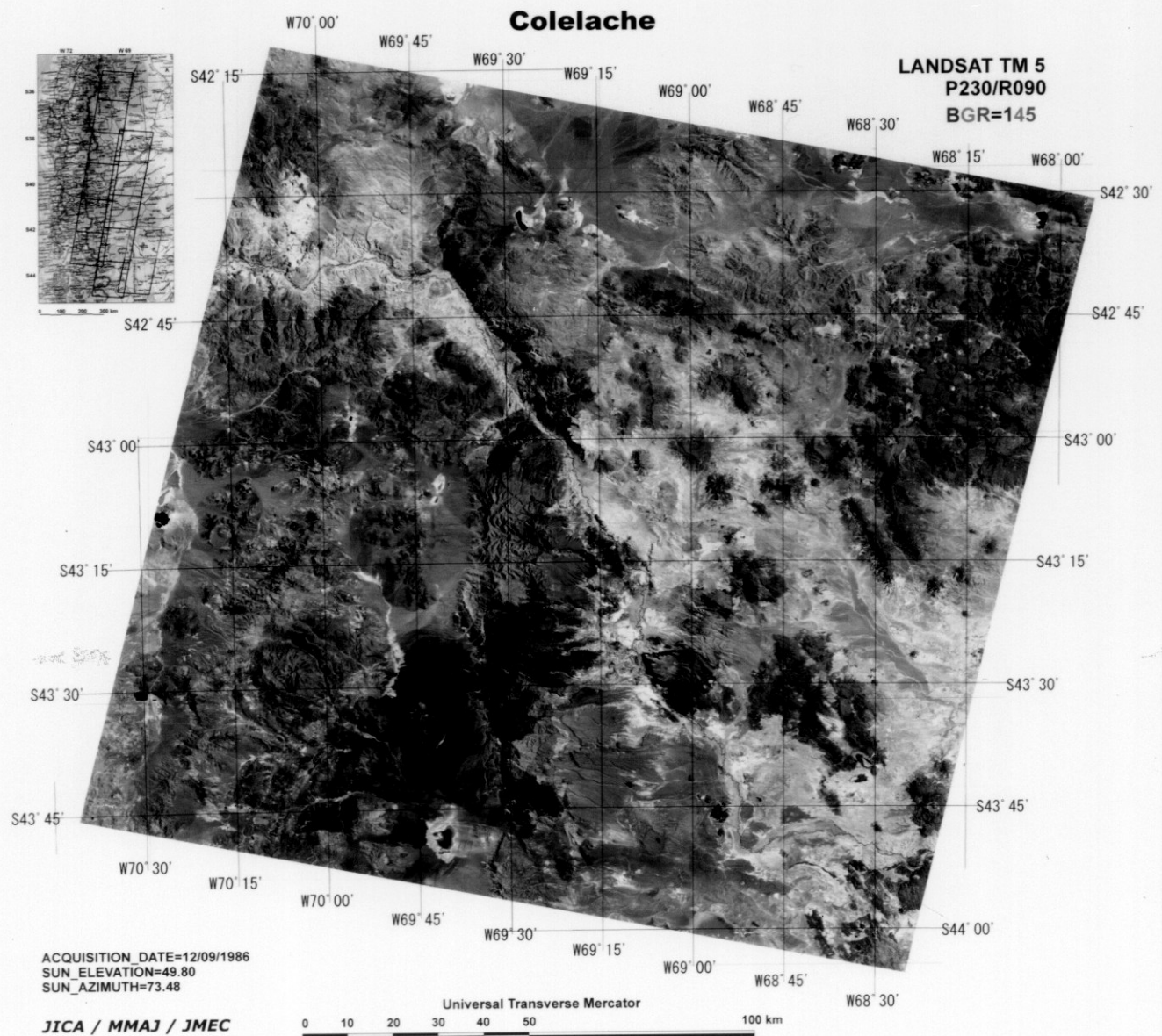


Fig. II -2-37 The Colelache area: Landsat TM false color image

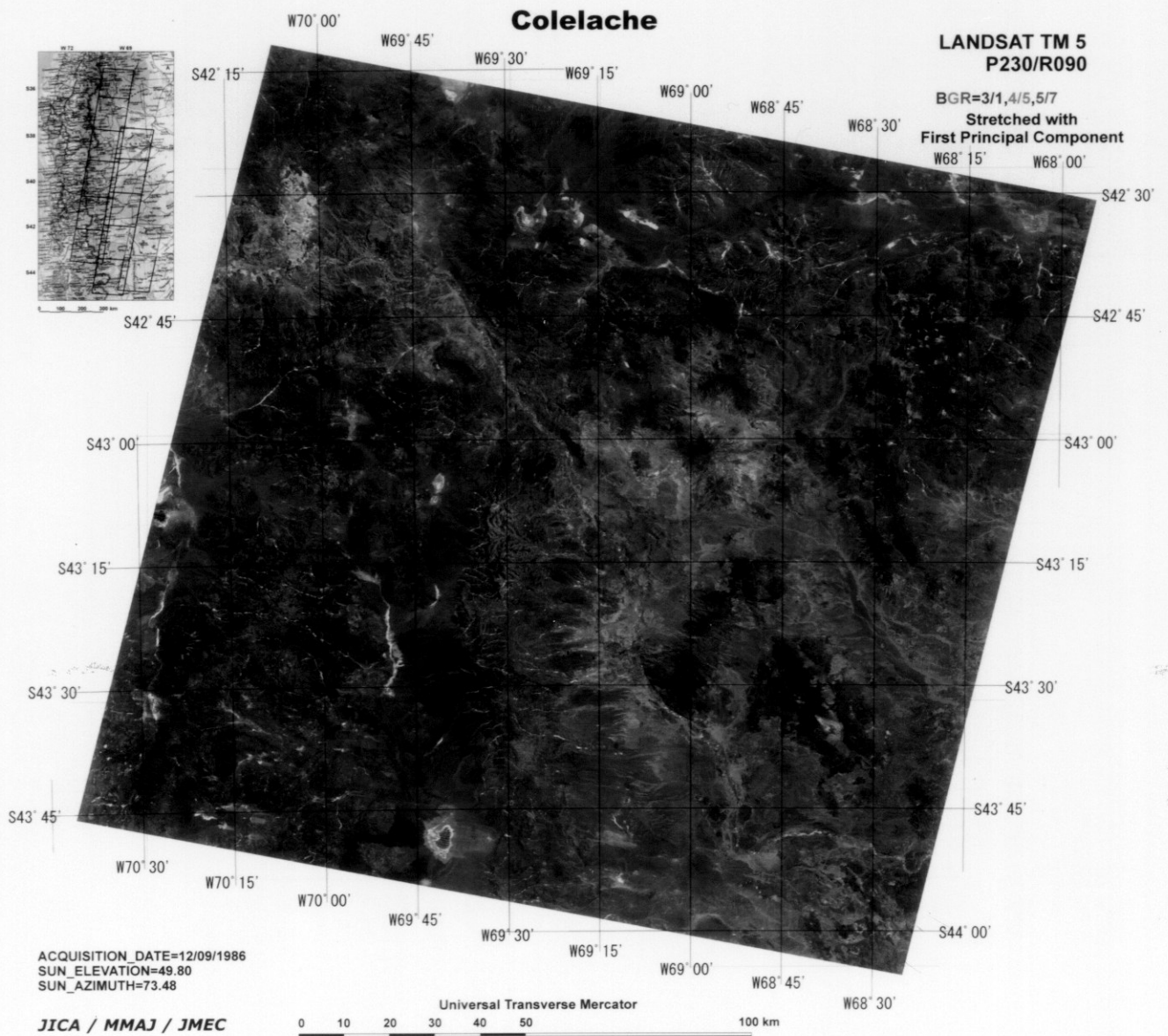


Fig. II -2-38 The Colelache area: Landsat TM ratio image

Table II -2-14 Characteristics of photogeologic units of the Buen Pasto area

Unit	Photo-Characteristics		Morphologic Expression				Superficial Cover		Probable Lithology (Correlation with available Geologic Map)	
	Tone	Texture	Drainage Pattern	Density	Rock Resistance	Section	Bedding	Vegetation		Cultivation
Qa	gray, purplish red, green	very fine	meandering	very low	very low		none	partly dense	partly intense	Unconsolidated sediments composed of gravel, sand, silt and clay (Holocene : Recent alluvial deposits)
Qt	gray	fine	meandering	very low	very low		none	none	partly	Unconsolidated sediments composed of gravel, sand, silt and clay (Holocene : Recent talus deposits)
Qis1	purplish	fine	sub-parallel	low	low		very gentle	rare	none	Unconsolidated sediments composed of gravel, sand, silt and clay (Pleistocene : Fluvial, talus deposits)
Qivb	reddish brown	rough	radial	medium	low		none	none	none	Basic volcanic rocks (Pleistocene : Basalt, pyroclastic rocks)
Tsv2	brown	fine	radial, sub-parallel	low	high		massive	partly	partly	Volcanic rocks (Pliocene : Andesite, basaltic andesite, basalt and pyroclastic rocks)
Tss	brown	fine	sub-parallel	low	low		rare	none	none	Continental sedimentary rocks (Miocene : Collon Cura Formation)
Tmv	brown	coarse	sub-dendritic	medium	medium-high		massive	partly	rare	Mainly pyroclastic rocks (Miocene : Basaltic rocks, El Mirador Formation)
Tiv	dark brown	coarse	sub-dendritic	medium	medium-high		massive	dense	partly	Andesitic volcanic rocks (Eocene-Oligocene : Andesite, basalt and pyroclastic rocks)
Tis	brown	coarse	sub-dendritic	high	medium		partly	medium	partly	Coarse grained sedimentary rocks (Paleocene : Sandstone, conglomerate, mudstone, limestone and gneiss)
Kss	gray	fine-medium	pinnate	medium	low-medium		bedded	none	none	Fine to medium grained sedimentary rocks (Upper Cretaceous : Sandstone, mudstone, conglomerate)
Ksv	brown, dark brown	medium	sub-dendritic	medium-high	medium-high		massive	rare	none	Volcanic rocks (Upper Cretaceous : Basic volcanic rocks, Tres Picos Prieto Formation etc.)
Kis2	brown	fine-medium	sub-parallel	medium-high	medium-high		well bedded	none	none	Fine to medium grained sedimentary rocks (Lower Cretaceous : Sandstone, mudstone, gypsum, limestone etc.)
Kiv	brown	coarse	sub-dendritic	medium	high		massive	partly dense	none	Volcanic rocks (Upper Cretaceous : Intermediate volcanic rocks (Devisadero Formatin etc.)
Jmv	brown	medium	sub-parallel	medium-high	medium-high		massive	partly dense	none	Volcanic rocks (Middle-Upper Jurassic : Intermediate volcanic rocks, Lago La Plata, Lonco Trapia Formations etc.)
Jis	brown	medium	sub-parallel	low-medium	medium		partly	partly	none	Sedimentary rocks (Lower jurassic : Marine and continental sedimentary rocks , Piltriquiron Formation etc.)
Ps	dark gray	rough	sub-dendritic	high	high		schistose	none	none	Schistose rocks (Paleozoic : Phyllite, schist, gneiss and migmatite)

Table II -2-14 Characteristics of photogeologic units of the Buen Pasto area

Unit	Photo-Characteristics		Morphologic Expression				Superficial Cover		Probable Lithology (Correlation with available Geologic Map)
	Tone	Texture	Drainage		Section	Bedding	Vegetation	Cultivation	
			Pattern	Density					
α K	brown	coarse	sub-dendritic, rectangular	medium	high	massive	partly	none	Igneous rocks (Upper Cretaceous: Granitic rocks)
α J	brown	coarse	sub-dendritic,	medium	high	massive	partly	none	Igneous rocks (Jurassic : Plutonic rocks and hypabyssal rocks)
α TR	brown	coarse	sub-dendritic	low	medium	massive	none	none	Igneous rocks (Triassic : Granitic rocks)
A	light gray	fine	none	low	low	none	none	none	Alteration Zone (Hydrothermal alteration zone)

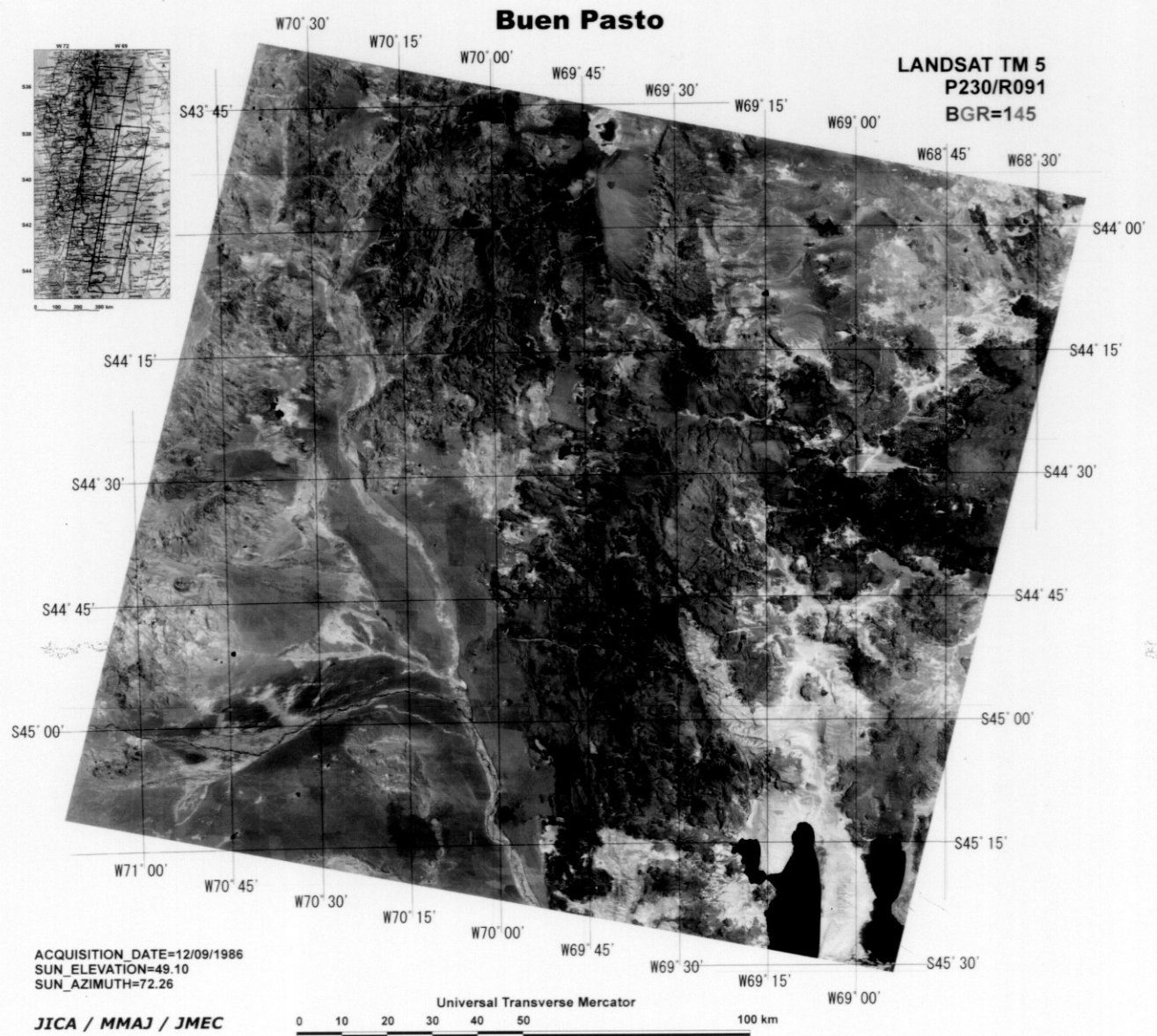


Fig. II -2-40 The Buen Pasto area: Landsat TM false color image

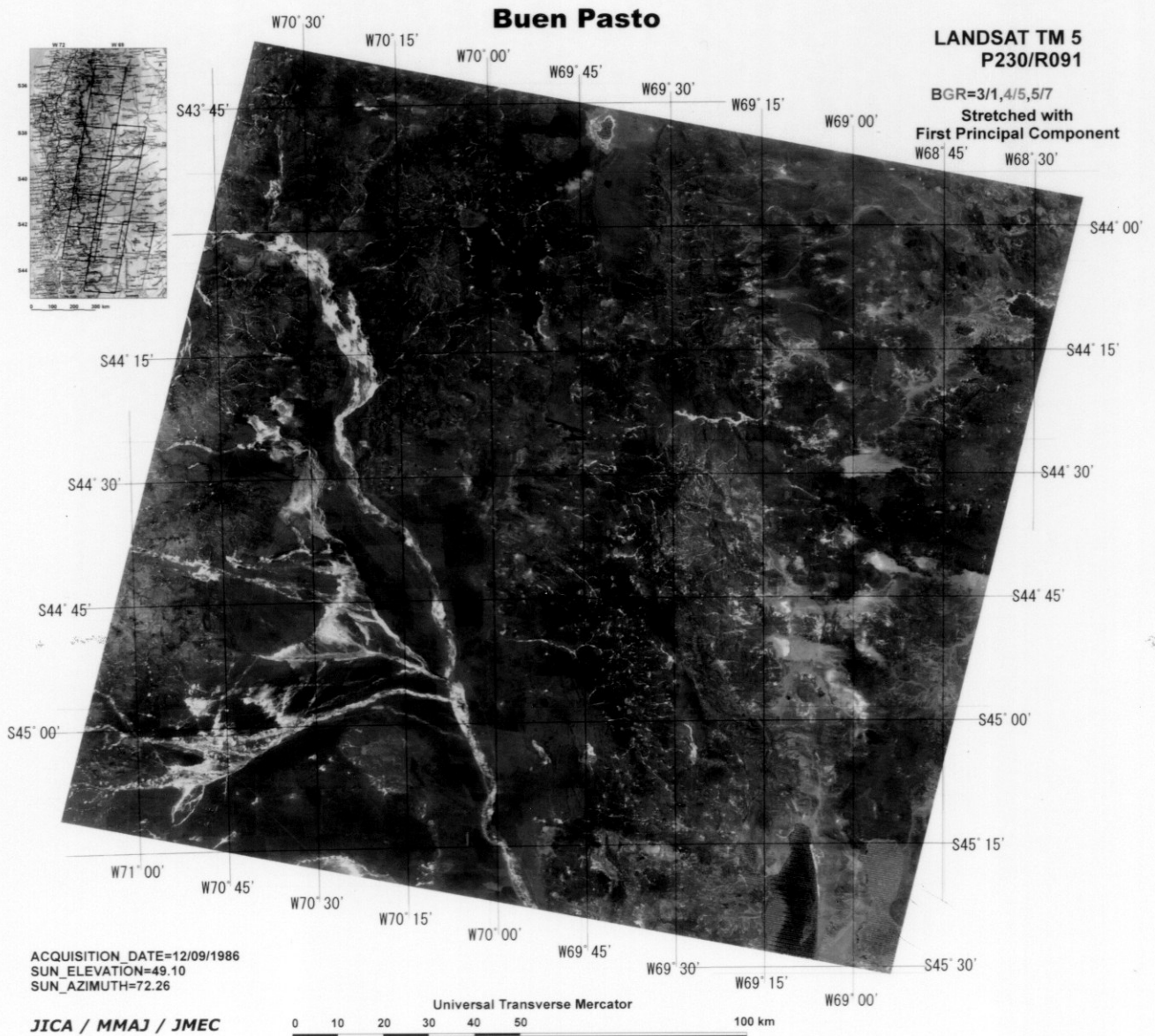


Fig. II -2-41 The Buen Pasto area: Landsat TM ratio image

Table II -2-15 Alteration zone of the Malargue area

Malargue Area 232/085

No. of Alteration Zone	Nearby Units	Size (km)	Extension	Ore Deposit
ML001	α P	3.2 × 0.8	NNE-SSW	
ML002	Tsv2	5.2 × 3.6	NW-SE	
ML003	Kis1, Tsv2	2.4 × 0.8	NNE-SSW	
ML004	Kis1, Tsv2	2.0 × 0.8	N-S	
ML005	Tsv2	7.6 × 2.4	NW-SE	
ML006	Tsv2	1.5 × 0.8	NNW-SSE	
ML007	Tsv2	1.2 × 0.8	N-S	
ML008	Tsv2	2.4 × 1.2	NW-SE	
ML009	Tsv2	5.2 × 1.6	NE-SW	
ML010	Tsv2	2.4 × 1.6	E-W	
ML011	Tsv2	3.2 × 1.2	N-S	
ML012	Tsv2	1.2 × 0.8	NNE-SSW	
ML013	Tsv2	2.0 × 0.8	NE-SW	
ML014	Kis1	2.4 × 2.4		
ML015	Tsv2	1.6 × 0.8	NW-SE	
ML016	Tsv2	2.0 × 0.8	E-W	
ML017	Tiv	6.8 × 2.4	NW-SE	Same as CM016
ML018	Tsv2	9.2 × 9.2	N-S, E-W	Same as CM017
ML019	Tiv	3.2 × 1.2	NW-SE	Same as CM018
ML020	Tsv2, Tiv	5.2 × 3.2	NW-SE	Same as CM019

Table II -2-16 Alteration zone of the Chos Malal area

Chos Malal Area 232/086

No. of Alteration Zone	Nearby Units	Size (km)	Extension	Ore Deposit
CM001	Tsv2	1.3 × 1.0		
CM002	Tsv2	1.8 × 2.5		
CM003	Tmv2	2.0 × 1.5	NW-SE	
CM004	α Tm	1.8 × 2.5		
CM005	TRiv	1.5 × 0.5		
CM006	TRiv	0.5 × 0.5		
CM007	TRiv	1.2 × 1.0		
CM008	α Ti	1.5 × 1.0	N-S	
CM009	TRiv	0.7 × 0.5		
CM010	TRiv	2.0 × 2.5		
CM011	Cv	9.0 × 2.5	N-S	
CM012	TRiv	1.3 × 1.0		
CM013	TRiv	4.0 × 3.5		
CM014	Tsv2	4.0 × 1.5	NW-SE	
CM015	α Ti	1.5 × 1.5		
CM016	Tiv	3.5 × 1.0	N-S	Same as ML016
CM017	Tiv	5.5 × 4.5		Same as ML017
CM018	Tiv	0.8 × 1.5		Same as ML018
CM019	Tiv	3.0 × 2.5		Same as ML020
CM020	Tsv2	1.5 × 2.0		
CM021	Tsv2	1.0 × 0.5		

Table II-2-17 Alteration zone of the Zapala area

Zapala Area 232/087

No. of Alteration Zone	Nearby Units	Size (km)	Extension	Ore Deposit
ZA001	α P	1.0 × 0.5		
ZA002	TRi	1.0 × 1.0		
ZA003	Tsv2	1.0 × 1.0		
ZA004	TRi	1.0 × 1.0		
ZA005	TRi	1.0 × 0.5		
ZA006	TRi	1.0 × 1.0		
ZA007	Tsv2	1.5 × 1.0		
ZA008	Tsv2	1.5 × 0.5	NW-SE	
ZA009	Tsv2	2.0 × 1.0		
ZA010	Tsv2	1.5 × 0.5	NW-SE	
ZA011	Tsv2	1.0 × 0.5	NW-SE	
ZA012	Tsv2	0.5 × 0.5		
ZA013	Tsv2	1.0 × 0.5		
ZA014	Tsv2	0.5 × 0.5		
ZA015	Tsv2	0.5 × 0.5		
ZA016	Tsv2	1.5 × 1.0		
ZA017	Tsv2	1.5 × 1.0		
ZA018	Tsv2	2.0 × 0.5		
ZA019	Tsv2	1.0 × 0.5		
ZA020	TRi	1.5 × 0.5		
ZA021	TRif	1.0 × 1.0		Same as PH001
ZA022	TRif	1.0 × 0.5		Same as PH002
ZA023	TRif	0.5 × 0.5		Same as PH003
ZA024	TRi	1.0 × 0.5		
ZA025	TRi	1.0 × 0.5		
ZA026	TRi	0.5 × 0.5		
ZA027	TRi	1.0 × 0.5		Same as PH005
ZA028	TRi	1.0 × 0.5	NW-SE	Same as PH006
ZA029	TRif	0.5 × 0.5	NW-SE	Same as PH007
ZA030	TRi	1.0 × 0.5	NW-SE	Same as PH008
ZA031	TRif	1.0 × 0.5	NW-SE	Same as PH009
ZA032	TRif	1.5 × 1.5	NW-SE	
ZA033	TRi	1.0 × 0.5	NW-SE	
ZA034	α P	2.0 × 0.5		
ZA035	α P	0.5 × 0.5		
ZA036	α P	1.0 × 0.5		
ZA037	α P	1.0 × 0.5		

Table II-2-18 Alteration zone of the San Martin de Los Andes area

San Martin de Los Andes Area 232/088

No. of Alteration Zone	Nearby Units	Size (km)	Extension	Ore Deposit
SM001	Ps	1.2 × 1.2		
SM002	Ps	1.8 × 1.6	E-W	
SM003	αP	1.2 × 0.8	NW-SE	
SM004	αP	0.8 × 0.4	NE-SW	
SM005	αP	1.6 × 0.4	NE-SW	
SM006	Ps	0.8 × 0.8		
SM007	Ps	2.2 × 1.2	NW-SE	
SM008	Tiv	1.2 × 0.8	NE-SW	
SM009	αK	1.2 × 0.8	E-W	
SM010	αK	1.2 × 0.8	E-W	
SM011	αK	1.6 × 1.2	NW-SE	
SM012	Tiv	2.0 × 0.6	NW-SE	
SM013	Tiv	1.2 × 0.8	NE-SW	
SM014	Tiv	1.2 × 0.6	ENE-WSW	
SM015	Tiv	5.6 × 0.8	N-S~ENE-WSW	
SM016	Tiv	1.0 × 1.2	NE-SW	
SM017	Tiv	2.0 × 1.2	N-S	
SM018	Tiv	1.6 × 1.0	NNE-SSW	
SM019	Tiv	1.6 × 0.8	NE-SW	
SM020	Tiv	2.4 × 1.2	WNW-ESE	
SM021	Tiv	0.8 × 0.8		
SM022	Tiv	1.6 × 1.0	WNW-ESE	
SM023	Tiv	1.2 × 0.8	NW-SE	
SM024	Tiv	1.0 × 0.8	NW-SE	
SM025	Tiv	2.2 × 0.8	NW-SE	
SM026	Tiv	1.6 × 1.6		
SM027	Tiv	1.0 × 0.8	NW-SE	
SM028	Tiv	1.0 × 0.8	N-S	
SM029	Tiv	2.0 × 1.0	NE-SW	
SM030	Tiv	0.6 × 0.4	NW-SE	
SM031	Tiv	1.6 × 1.2	NW-SE	
SM032	Tiv	0.8 × 0.4	NE-SW	

Table II-2-19 Alteration zone of the San Carlos de Bariloche area

San Carlos de Bariloche Area 232/089 (1)

No. of Alteration Zone	Nearby Units	Size (km)	Extension	Ore Deposit
SB001	α Tm	1.2 × 0.4	NW-SE	
SB002	α Tm,Ps	1.6 × 0.8	NNW-SSE	
SB003	Ps	1.2 × 0.4	E-W	
SB004	Ps	1.5 × 1.2	NNW-SSE	
SB005	Ps	1.2 × 0.8	NW-SE	
SB006	Ps	2.0 × 0.8	E-W	
SB007	Ps	1.6 × 1.2	NW-SE	
SB008	Ps	1.2 × 1.2		
SB009	Ps	0.8 × 0.8		
SB010	Tiv	1.2 × 0.8	NNW-SSE	
SB011	α K	1.2 × 0.6	NW-SE	
SB012	α K	0.8 × 0.4	NE-SW	
SB013	α K	1.6 × 0.8	NNE-SSW	
SB014	α K	1.2 × 0.4	NNE-SSW	
SB015	Kiv	1.2 × 1.2		
SB016	Kiv	1.2 × 0.8	NW-SE	
SB017	Kiv	1.6 × 1.0	NW-SE	
SB018	α K	1.2 × 0.8	E-W	
SB019	α K	1.6 × 0.8	NW-SE	
SB020	α K	1.6 × 1.2	NW-SE	
SB021	α K	1.2 × 0.8	NW-SE	
SB022	Kiv	1.0 × 0.8	ENE-WSW	
SB023	Kiv	0.8 × 0.4	NNE-SSW	
SB024	Kiv	2.0 × 0.8	NNW-SSE	
SB025	α K	0.8 × 0.6	E-W	
SB026	α K	0.8 × 0.6	N-S	
SB027	α K	0.8 × 0.8		
SB028	α K	0.8 × 0.6	NW-SE	
SB029	α K	1.2 × 0.6	NE-SW	
SB030	α K	1.6 × 0.8	NE-SW	
SB031	α K	0.8 × 0.6	NNW-SSE	
SB032	Kiv, α K	2.0 × 1.2	ENE-WSW	
SB033	Kiv	1.2 × 0.8	ENE-WSW	
SB034	Jmv	2.8 × 0.8	NE-SW	Same as LM012
SB035	α K	2.0 × 0.8	N-S	
SB036	α K	1.6 × 0.8	E-W	
SB037	α K	2.0 × 0.8	NW-SE	
SB038	α K	2.8 × 0.8	E-W	
SB039	α K	3.6 × 2.4	NE-SW	
SB040	α K	0.8 × 0.8		
SB041	Tiv	0.8 × 0.4	E-W	
SB042	α K	0.8 × 0.4	NE-SW	
SB043	Tiv	1.2 × 0.8	E-W	
SB044	α K	1.2 × 0.8	NNW-SSE	
SB045	α K	3.2 × 0.8	NNE-SSW	

Table II-2-19 Alteration zone of the San Carlos de Bariloche area

San Carlos de Bariloche Area 232/089 (2)

No. of Alteration Zone	Nearby Units	Size (km)	Extension	Ore Deposit
SB046	α K	0.8 × 0.4	WNW-ESE	
SB047	α K	2.4 × 1.2	NW-SE	
SB048	P _s	1.2 × 0.8	E-W	
SB049	α K	1.6 × 0.4	E-W	
SB050	α K	4.4 × 1.2	N-S	
SB051	α K	2.8 × 1.2	NNE-SSW	
SB052	α K	1.6 × 0.8	E-W	
SB053	α K	2.0 × 0.8	N-S	
SB054	α K	0.6 × 0.4	NE-SW	
SB055	α K	1.6 × 0.8	NE-SW	
SB056	α K	1.2 × 0.8	NW-SE	
SB057	α K	0.8 × 0.8		
SB058	α K	1.0 × 0.4	NE-SW	Same as LM005
SB059	Kiv	2.0 × 1.6	NE-SW	Same as LM006
SB060	Kiv	3.6 × 1.2	NE-SW	Same as LM011
SB061	Kiv	1.6 × 0.4	NE-SW	Same as LM008
SB062	α K	1.6 × 0.8	N-S	Same as LM010
SB063	α K	0.8 × 0.8		Same as LM009
SB064	Tiv	1.6 × 1.6		
SB065	Tiv	2.0 × 1.2	NE-SW	Same as OA003
SB066	Tiv	0.6 × 0.4	N-S	
SB067	Tiv	1.5 × 0.8	NE-SW	
SB068	Tiv	2.4 × 1.2	NNW-SSE	Same as OA004
SB069	Tiv	0.8 × 0.4	NW-SE	Same as OA005
SB070	Tiv	1.6 × 0.8	NNE-SSW	Same as OA006
SB071	Tiv	1.6 × 0.8	NE-SW	Same as OA007
SB072	α K	0.8 × 0.4	NNE-SSW	
SB073	α K	2.0 × 1.2	NNE-SSW	Same as OA008
SB074	Tiv	0.6 × 0.4	E-W	Same as OA009
SB075	Tiv	1.2 × 0.8	E-W	Same as OA010
SB076	Tiv	3.2 × 0.8	NW-SE	Same as OA011
SB077	α K	1.2 × 0.8	NW-SE	Same as OA012
SB078	α K	0.8 × 0.4	NW-SE	
SB079	Tiv	1.6 × 0.8	E-W	Same as OA013
SB080	Tiv	1.6 × 0.8	NE-SW	Same as OA014
SB081	Jis	1.5 × 0.8	NNE-SSW	Same as EQ017
SB082	Jis	1.8 × 1.2	NNE-SSW	Same as EQ018
SB083	Jis	1.2 × 0.8	E-W	Same as EQ019
SB084	Kiv	0.8 × 0.8		
SB085	Tiv	2.0 × 1.2	NE-SW	Same as LM001
SB086	Tiv	1.2 × 0.4	E-W	Same as LM003
SB087	Tiv	1.2 × 0.8	NE-SW	Same as LM002, OA022
SB088	Tiv	2.4 × 1.2	ENE-WSW	Same as LM004

Table II -2-20 Alteration zone of the Lago Menendez area

Lago Menendez Area 232/090

No. of Alteration Zone	Nearby Units	Size (km)	Extension	Ore Deposit
LM001	Tiv	2.4 × 1.6	NE-SW	Same as SB085, EQ004
LM002	Tiv	1.2 × 0.8	NE-SW	Same as SB087, OA022, EQ005
LM003	Tiv	1.2 × 0.8	E-W	Same as SB086, EQ006
LM004	Tiv	2.0 × 0.8	NE-SW	Same as SB088, EQ007
LM005	α K	0.8 × 0.8		Same as SB058
LM006	Kiv	1.6 × 1.4	N-S	Same as SB059
LM007	Kiv	1.2 × 0.8	ENE-WSW	
LM008	Kiv	1.2 × 0.4	ENE-WSW	Same as SB061
LM009	α K	1.2 × 0.8	N-S	Same as SB063
LM010	α K	0.8 × 0.6	NE-SW	Same as SB062
LM011	Kiv, α K	3.2 × 1.2	NE-SW	Same as SB060
LM012	Jmv	3.6 × 0.8	NE-SW	Same as SB034
LM013	α K	2.4 × 0.8	NE-SW	
LM014	Kiv	1.2 × 1.2		
LM015	Kiv, Tiv	5.0 × 4.0	NNW-SSE	Same as EQ001
LM016	Kiv	2.4 × 0.8	ENE-WSW	Same as EQ008
LM017	Kiv	1.6 × 1.0	NE-SW	Same as EQ009
LM018	α K	1.2 × 0.8	NNW-SSE	Same as EQ010
LM019	Kiv	1.2 × 1.2		Same as EQ011
LM020	Kiv	3.2 × 1.2	NE-SW	Same as EQ012
LM021	Ps	2.0 × 0.8	ENE-WSW	Same as EQ013
LM022	Ps	2.4 × 2.4		Same as EQ014
LM023	Kiv	3.8 × 0.8	NW-SE	Same as EQ015
LM024	Jis	1.2 × 1.2		Same as EQ016
LM025	Kiv	1.6 × 0.8	NE-SW	
LM026	Tiv	4.8 × 2.4	WNW-ESE	Same as EQ002
LM027	Tiv	1.6 × 0.6	E-W	
LM028	Tiv	1.6 × 0.6	E-W	
LM029	α K	0.8 × 0.4	NW-SE	
LM030	Kiv	3.2 × 1.2	N-S	Same as EQ020
LM031	Tiv	6.4 × 4.8	NW-SE	Same as EQ003
LM032	α K	2.0 × 0.4	NW-SE	
LM033	α K	3.2 × 2.0	NE-SW	

Table II -2-21 Alteration zone of the Plaza Huincul area

Plaza Huincul Area 232/090

No. of Alteration Zone	Nearby Units	Size (km)	Extension	Ore Deposit
PH001	TRif	(1.6+ α) × 1.2	NW-SE	Same as ZA021
PH002	TRif	2.0 × 0.4	N-S	Same as ZA022
PH003	TRif	(1.6+ α) × 1.2	NE-SW	
PH004	TRif	1.0 × 0.4	NW-SE	Same as ZA023
PH005	TRif	(2.8+ α) × 1.2	NW-SE	Same as ZA027
PH006	TRi	2.0 × 1.0	NW-SE	Same as ZA028
PH007	TRif	1.2 × 0.8	NE-SW	Same as ZA029
PH008	TRi	1.2 × 0.8	NW-SE	Same as ZA030
PH009	TRif	1.6 × 1.2	NW-SE	Same as ZA031

Table II -2-22 Alteration zone of the Laguna Blanca area

Laguna Blanca Area 231/088

No. of Alteration Zone	Nearby Units	Size (km)	Extension	Ore Deposit
-	-	-	-	-

Table II -2-23 Alteration zone of the Ojo de Agua area

Ojo de Agua Area 231/089

No. of Alteration Zone	Nearby Units	Size (km)	Extension	Ore Deposit
OA001	CV	0.8 × 0.4	E-W	
OA002	αP	2.0 × 1.2	E-W	
OA003	Tiv	0.4 × 0.4		Same as SB065
OA004	Tiv	2.0 × 1.2	E-W	Same as SB068
OA005	Tiv	2.0 × 0.8	NW-SE	Same as SB069
OA006	Tiv	1.6 × 0.4	N-S	Same as SB070
OA007	Tiv	1.2 × 1.0	N-S	Same as SB071
OA008	αK	2.4 × 1.2	E-W	Same as SB073
OA009	Tiv	0.8 × 0.8		Same as SB074
OA010	Tiv	1.2 × 0.8	NNW-SSE	Same as SB075
OA011	Tiv	2.8 × 0.5	NW-SE	Same as SB076
OA012	Tiv	1.2 × 0.8	N-S	Same as SB077
OA013	Tiv	1.2 × 0.8	E-W	Same as SB079
OA014	Tiv	1.2 × 0.8	NE-SW	Same as SB080
OA015	Tiv	2.4 × 2.0	ENE-WSW, NW-SE	
OA016	Tiv	1.6 × 0.8	ENE-WSW	
OA017	CV	0.8 × 0.8		
OA018	PS	2.4 × 0.8	NW-SE	
OA019	PS	2.0 × 1.2	NE-SW	
OA020	PS	2.8 × 0.5	NW-SE	
OA021	Tiv	1.6 × 1.2	NW-SE	
OA022	Kiv	0.8 × 0.4	NW-SE	Same as SB087

Table II -2-24 Alteration zone of the Esquel area

Esquel Area 231/090

No. of Alteration Zone	Nearby Units	Size (km)	Extension	Ore Deposit
EQ001	Kiv	3.3 × 2.5		Same as LM015
EQ002	Tiv	2.5 × 1.5		Same as LM026
EQ003	Tiv	4.0 × 4.0		Same as LM031
EQ004	Tiv	2.4 × 1.6	NE-SW	Same as SB085, LM001
EQ005	Tiv	1.2 × 0.8	NE-SW	Same as SB087, OA022, LM002
EQ006	Tiv	1.2 × 0.8	E-W	Same as SB086, LM003
EQ007	Tiv	2.0 × 0.8		Same as SB058, LM005
EQ008	Kiv	2.4 × 0.8	ENE-WSW	Same as LM016
EQ009	Kiv	1.6 × 1.0	NE-SW	Same as LM017
EQ010	αK	1.2 × 0.8	NNW-SSE	Same as LM018
EQ011	Kiv	1.2 × 1.2		Same as LM019
EQ012	Kiv	3.2 × 1.2	NE-SW	Same as LM020
EQ013	Ps	2.0 × 0.8	ENE-WSW	Same as LM021
EQ014	Ps	2.4 × 2.4		Same as LM022
EQ015	Kiv	3.8 × 0.8	NW-SE	Same as LM023
EQ016	Jis	1.2 × 1.2		Same as LM024
EQ017	Jis	1.5 × 0.8	NNE-SSW	Same as SB081
EQ018	Jis	1.8 × 1.2	NNE-SSW	Same as SB082
EQ019	Jis	1.2 × 0.8	E-W	Same as SB083
EQ020	Kiv	3.2 × 1.2	N-S	Same as LM030

Table II -2-25 Alteration zone of the Senguerr area

Senguerr Area 231/091

No. of Alteration Zone	Nearby Units	Size (km)	Extension	Ore Deposit
SE001	Jiv	2.5 × 0.8	NW-SE	
SE002	Kiv	1.0 × 0.5	NW-SE	
SE003	Kiv	1.5 × 1.0	NW-SE	
SE004	Kiv	1.0 × 0.5	NW-SE	
SE005	Kiv	0.8 × 0.5		
SE006	Kiv	2.0 × 1.2		
SE007	Ksv	2.8 × 2.0	NE-SW	Same as BP001
SE008	Ksv	1.0 × 0.8	E-W	Same as BP002
SE009	Jmv	1.2 × 1.2		Same as BP004
SE010	Kiv	2.0 × 1.6	NNW-SSE	Same as BP005
SE011	Kiv	1.6 × 1.2	NW-SE	Same as BP006
SE012	Kis2	0.8 × 0.7		Same as BP007

Table II -2-26 Alteration zone of the Colelache area

Colelache Area 230/090

No. of Alteration Zone	Nearby Units	Size (km)	Extension	Ore Deposit
CL001	Tiv	4.0 × 1.6	N-S,NW-SE	
CL002	Tiv	2.0 × 0.8	E-W	
CL003	Tiv	1.2 × 0.8	E-W	
CL004	Tiv	1.6 × 0.8	NE-SW	
CL005	Tiv	2.0 × 1.0	NE-SW	

Table II -2-27 Alteration zone of the Buen Pasto area

Buen Pasto Area 230/091

No. of Alteration Zone	Nearby Units	Size (km)	Extension	Ore Deposit
BP001	Ksv	2.8 × 2.0	NW-SE	Same as SE007
BP002	Ksv	1.0 × 0.8	E-W	Same as SE008
BP003	Jmv	2.8 × 1.2	NW-SE	
BP004	Jmv	1.2 × 1.2		Same as SE009
BP005	Kiv	2.0 × 1.6	NNW-SSE	Same as SE010
BP006	Kiv	1.6 × 1.2	NW-SE	Same as SE011
BP007	Kis2	0.8 × 0.7		Same as SE012