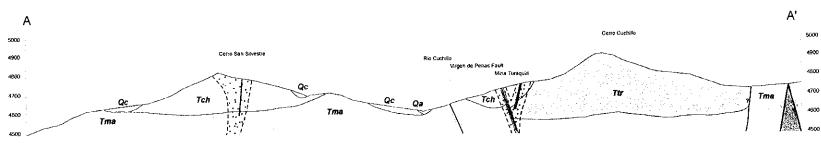
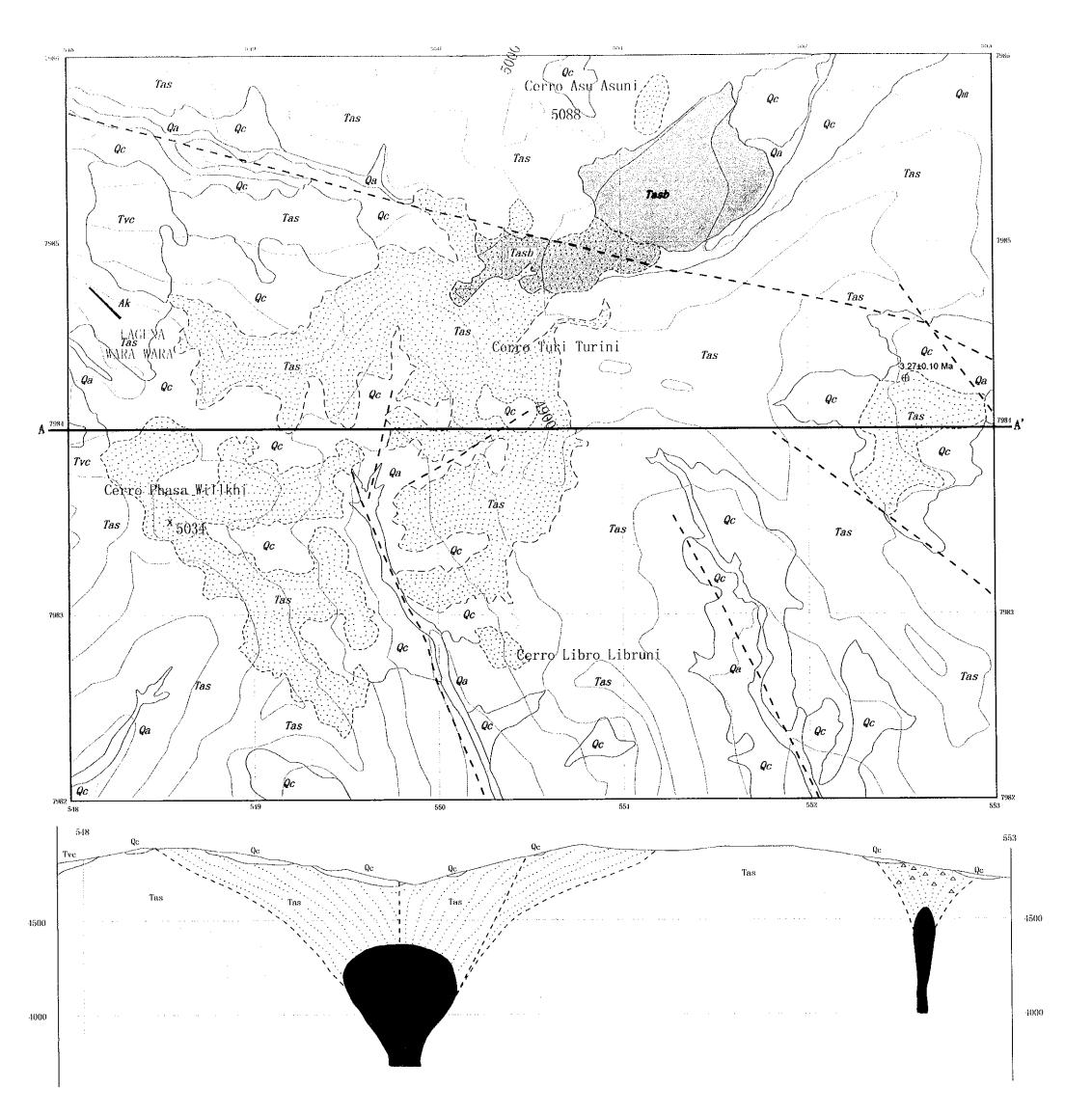
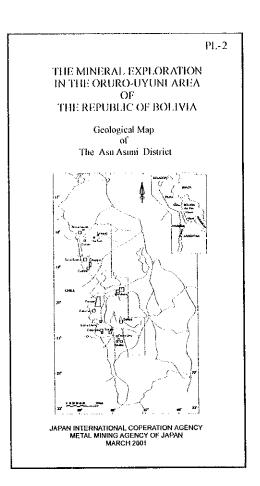


0 1000 n







Qa Alluvial deposit
Qc Colluvial deposit

Qm Moraine

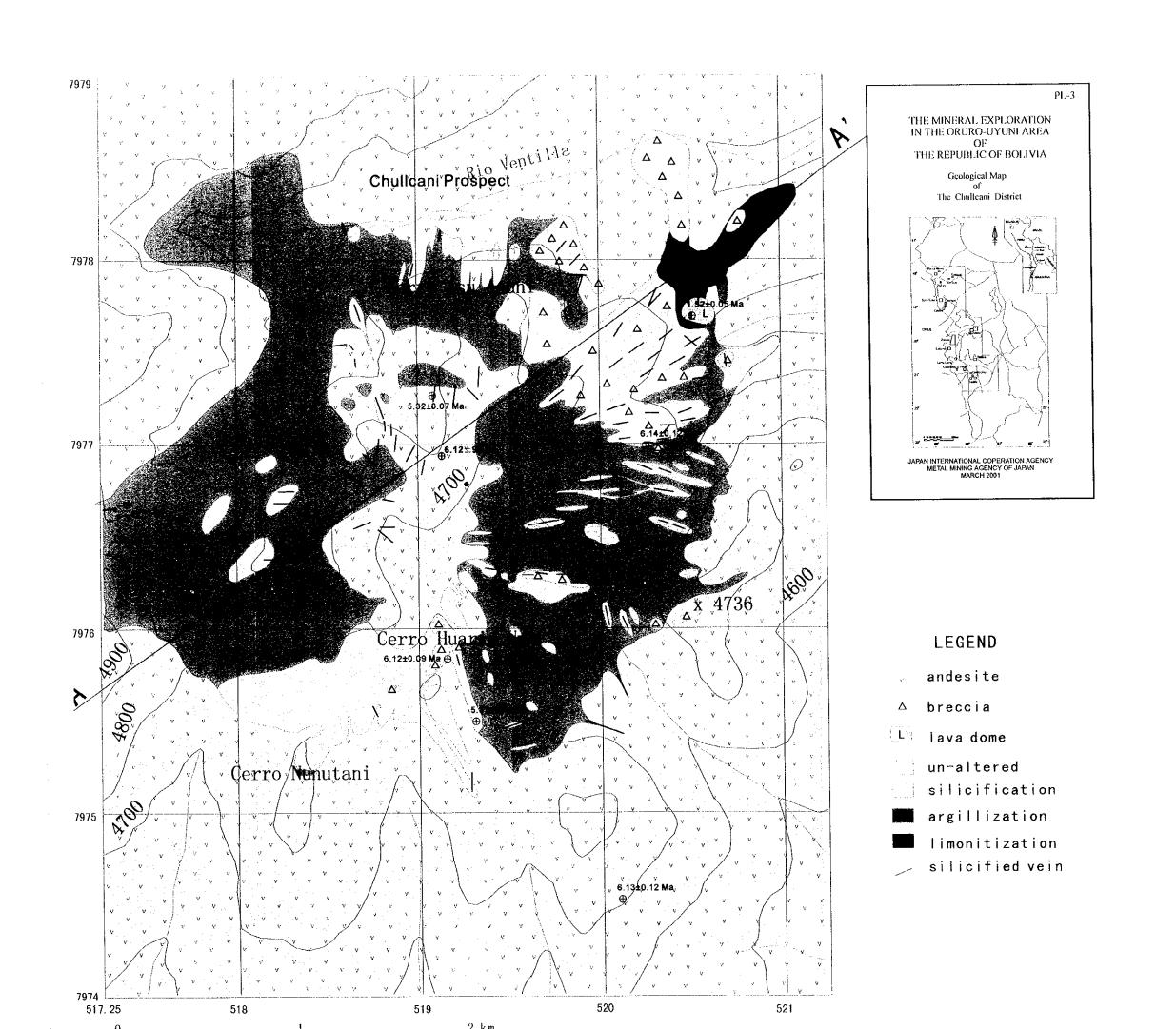
Tvc Pyroclastic rock

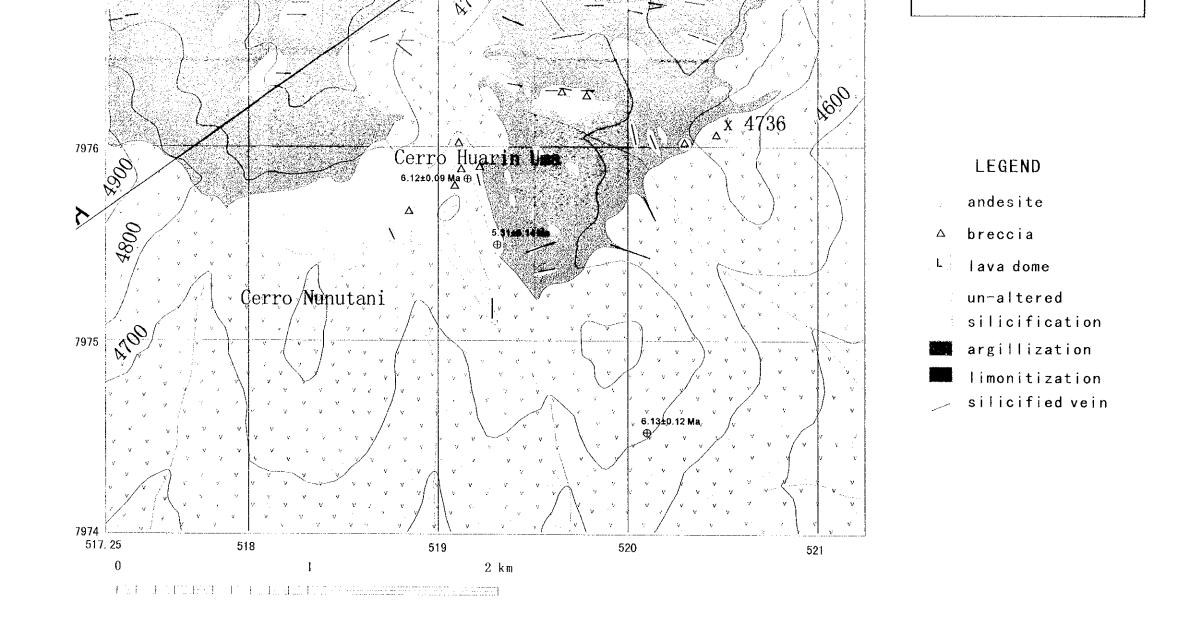
Tas Asu Asuni Andestic lava

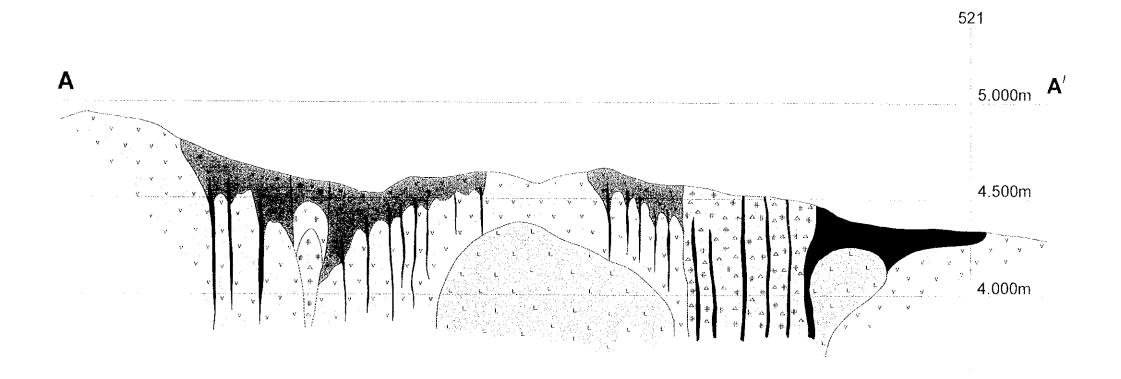
Asu asuni Volcanic breccia

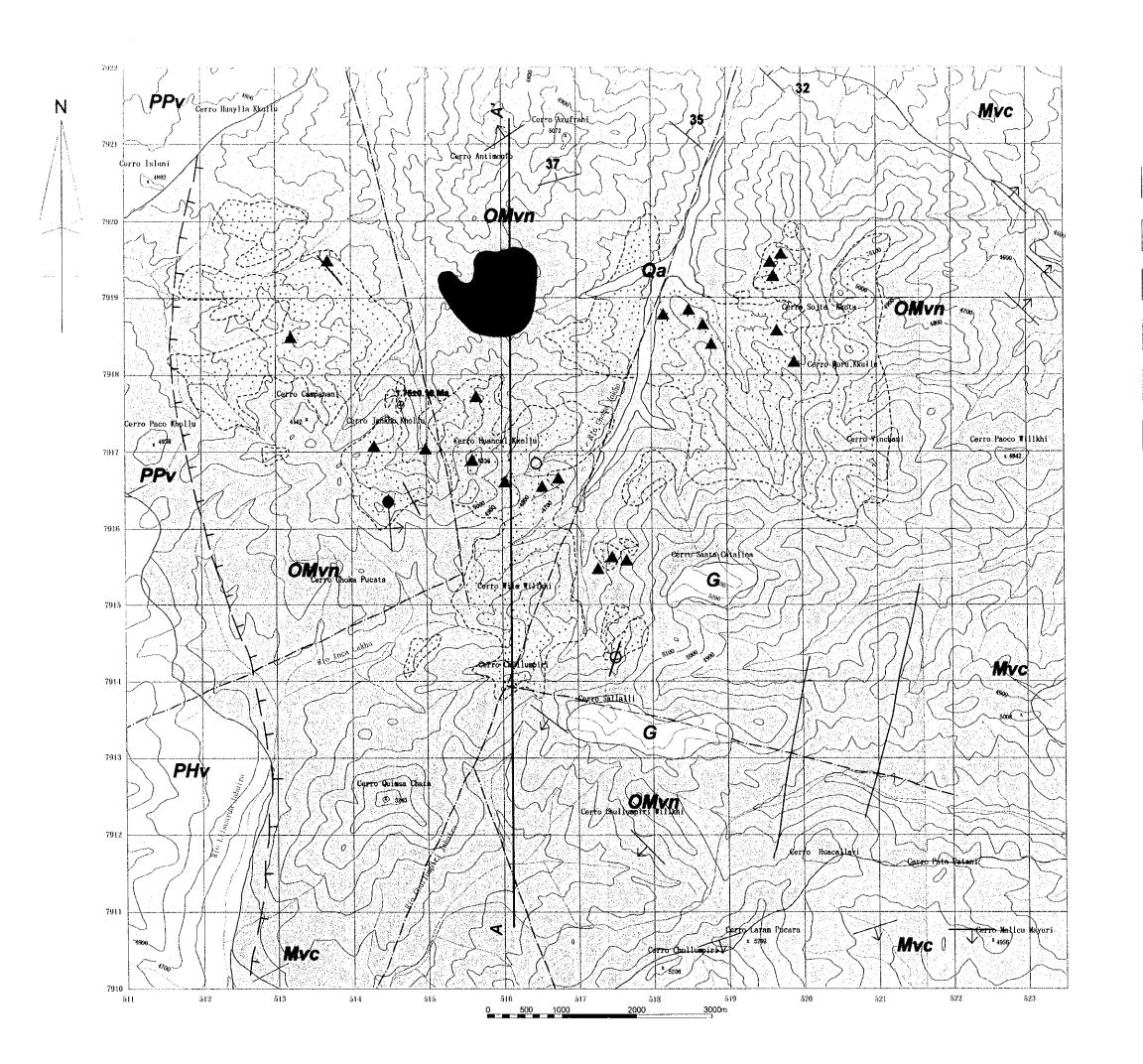
Alteration zone
Lineament

0 1000 m









Qa Alluvial deposit

PHv Pleistocene to Holocene volcanic

PPv Pliocene to Pleistocene volcanics (Perez F.)

Mvs Lower to middle Miocene volcanio rocks (Carandas F.)

OMvn Upper Oligocene to lower Miocen volcanic rocks (Negrillos F.)

Lower Miocene volcanic to sub-v nic rocks (domes, stocks and ned

G Gracial

Fault

Lineament

√ Caldera margin

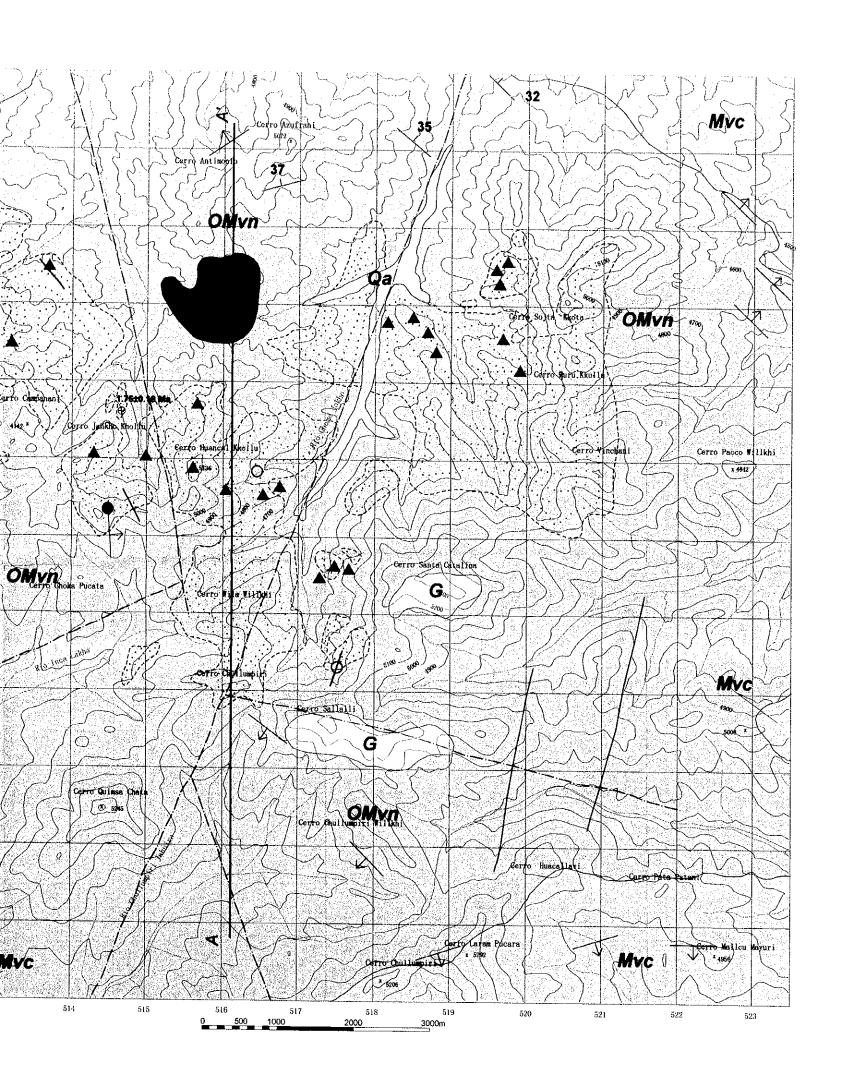
Strike and dip of bedding

Hydrothermal alteration zone

● Pb,Zn

▲ Pyrite

○ Mn, limonite



Qa Alluvial deposit

PHv Pleistocene to Holocene volcanic rocks

PPv Pliocene to Pleistocene volcanics (Perez F.)

Mvs Lower to middle Miocene volcanic rocks (Carandas F.)

OMvn Upper Oligocene to lower Miocene volcanic rocks (Negrillos F.)

Lower Miocene volcanic to sub-volcanic rocks (domes, stocks and necks).

G Gracial

Fault

Lineament

Caldera margin

Strike and dip of bedding

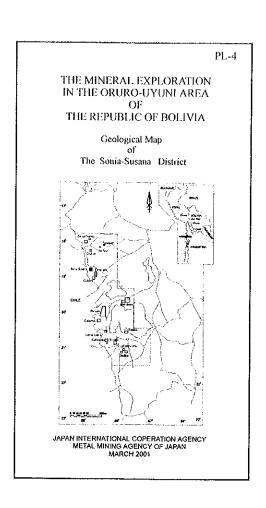
Hydrothermal alteration zone

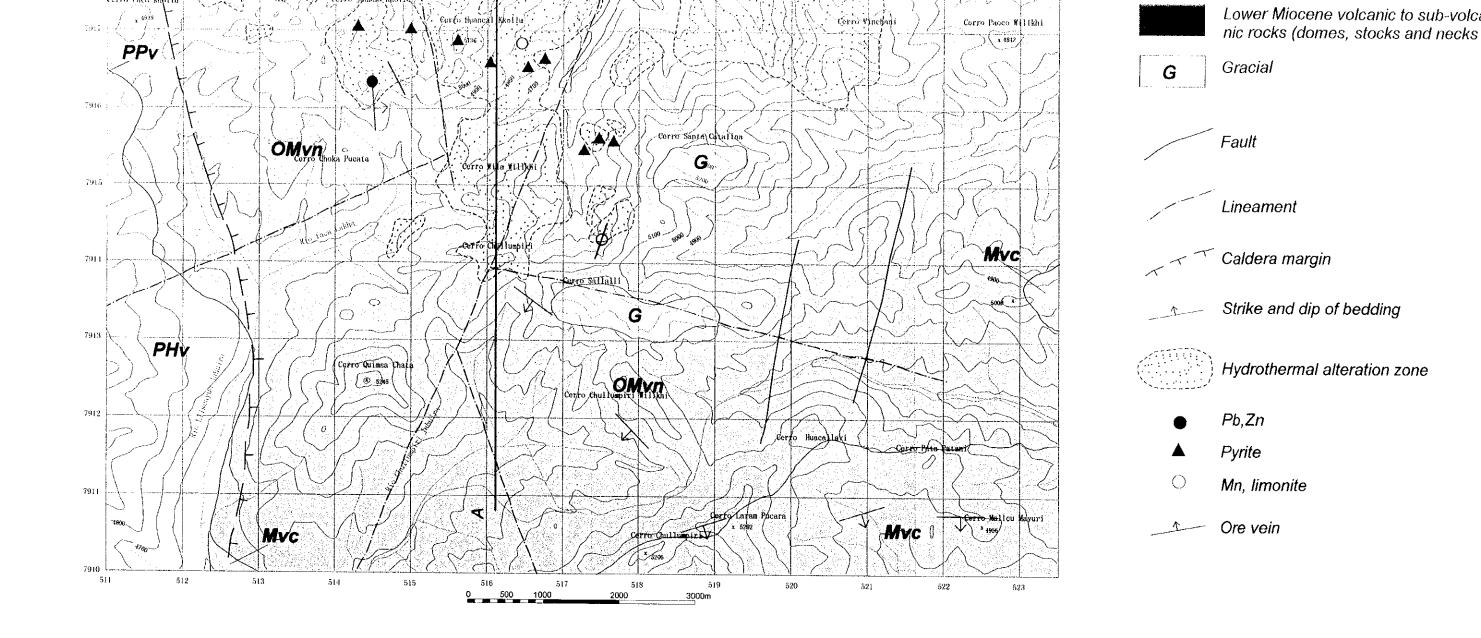
● Pb,Zn

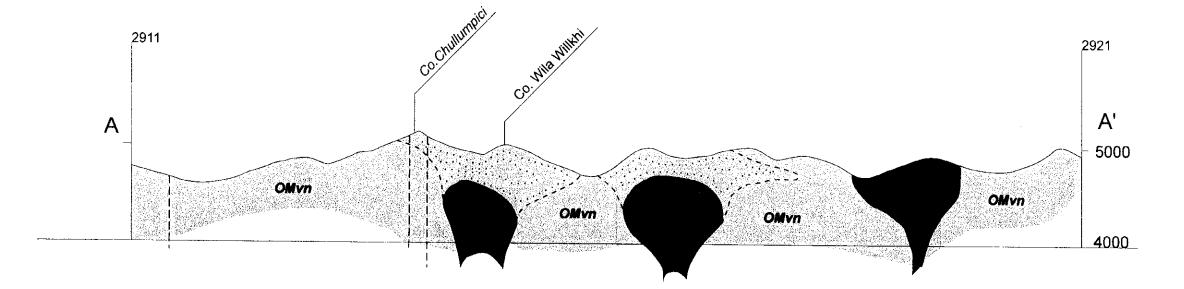
Pyrite

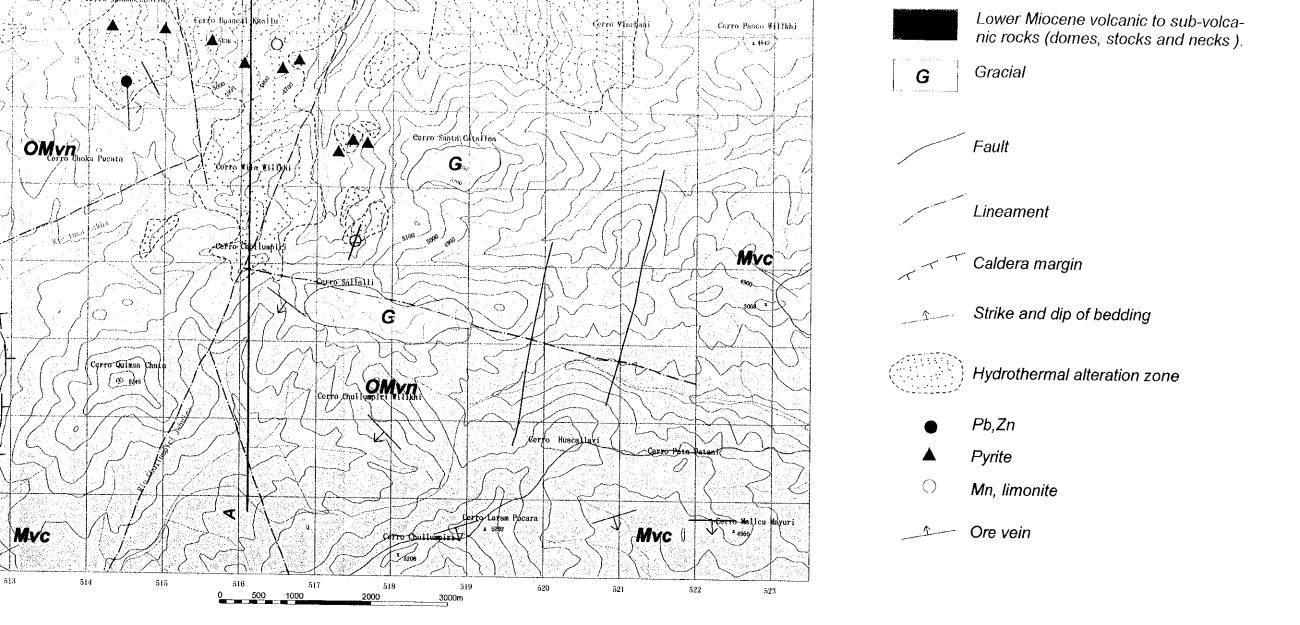
Mn, limonite

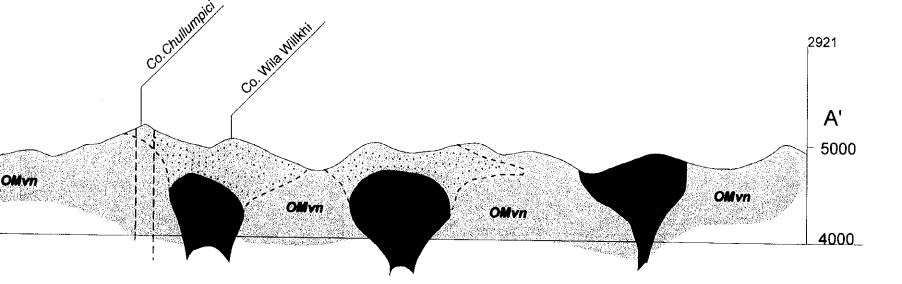
Ore vein





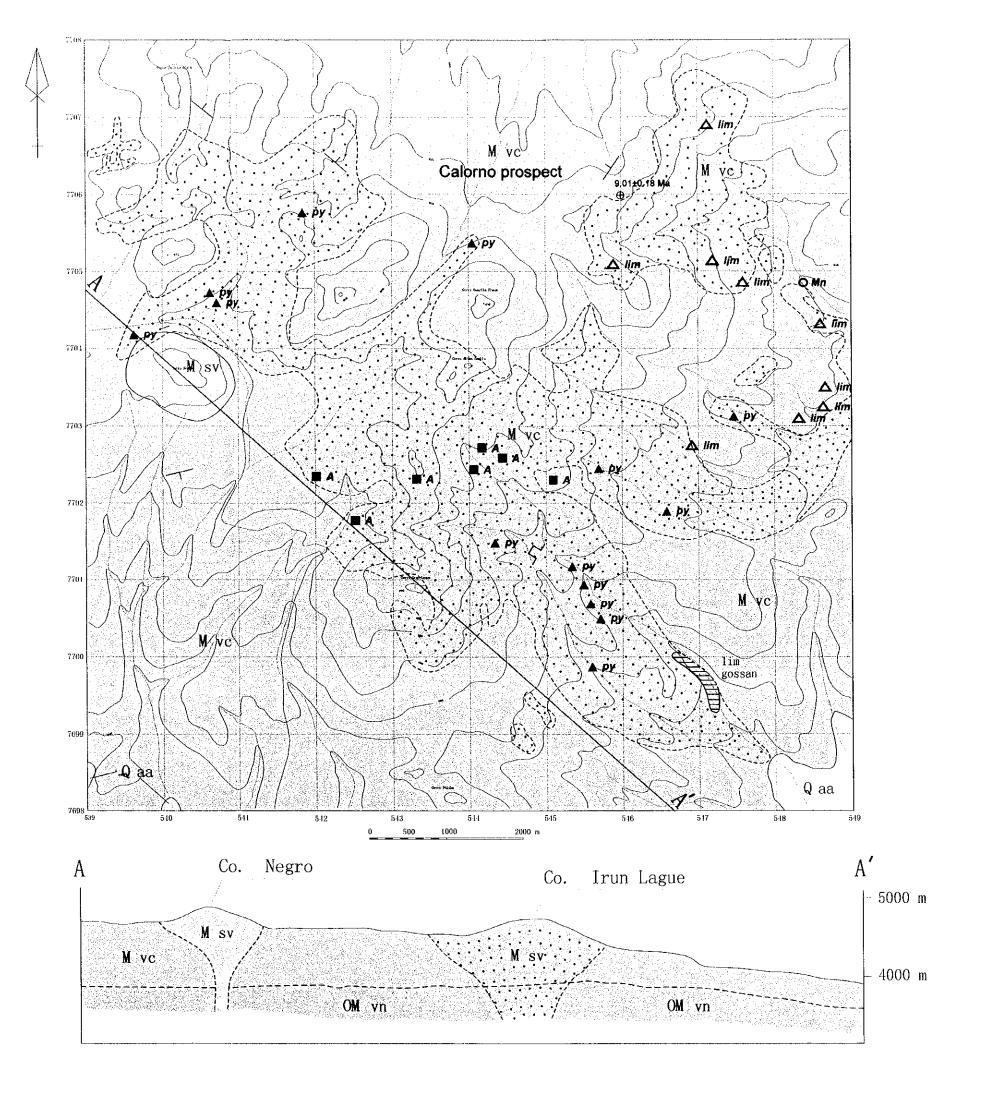


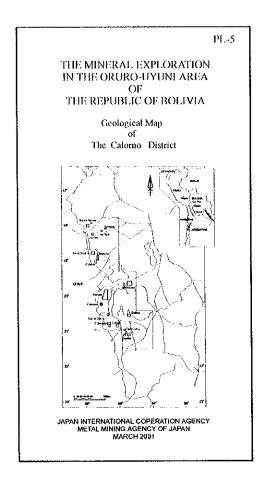




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JAPAN INTERNATIONAL COPERATION AGENCY METAL MINING AGENCY OF JAPAN





Q aa Alluvialfan deposit.

M vc Lower to Middle Miocene Volcanic rocks (Carangas F.)

OM vn Upper Oligocene to lower Miocene volcanic rock (Negrillos.)

M sv Miocen sub-volcanic rock (dikes, sills, stocks.)

Dip of lava flow.

Hidro therinal Alteration zone.

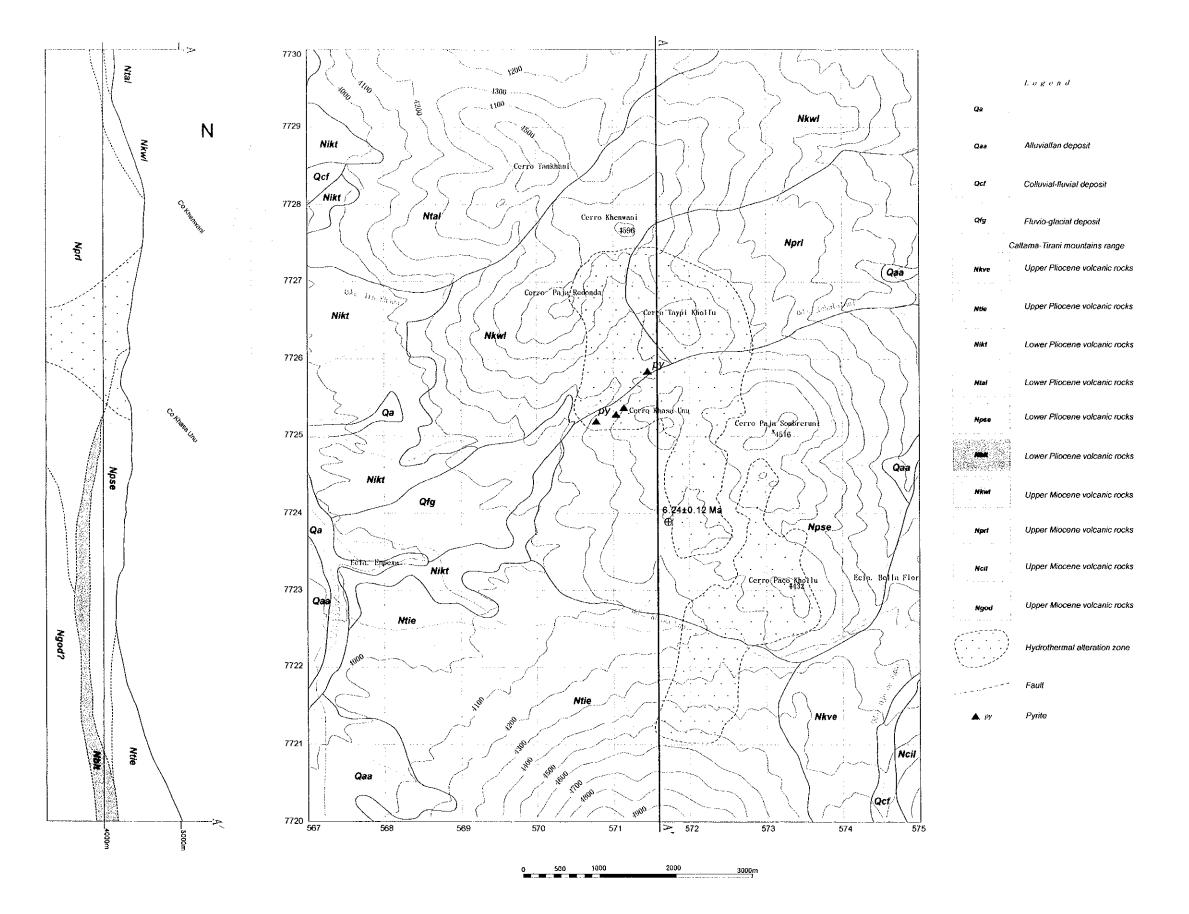
△ py pyrite

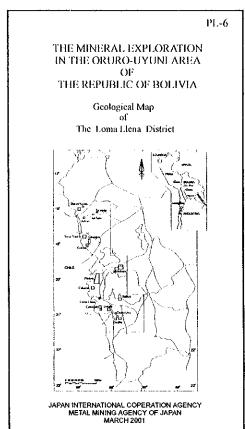
■ A yellow Alunite

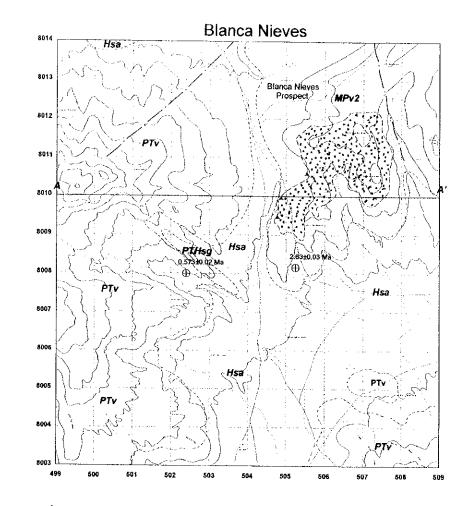
∆ *lim* Limonite

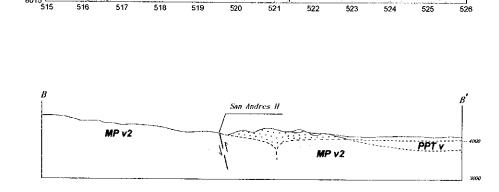
tunnel

O Mn





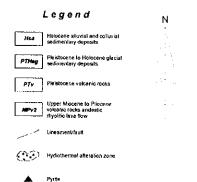




Titicayo

MPv2

727±0:10 Ms Titicayo Prospect



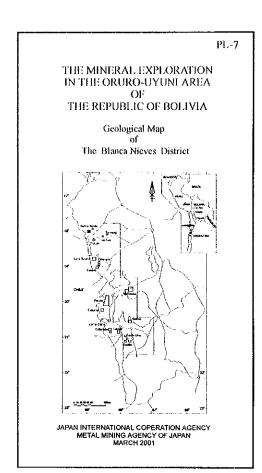


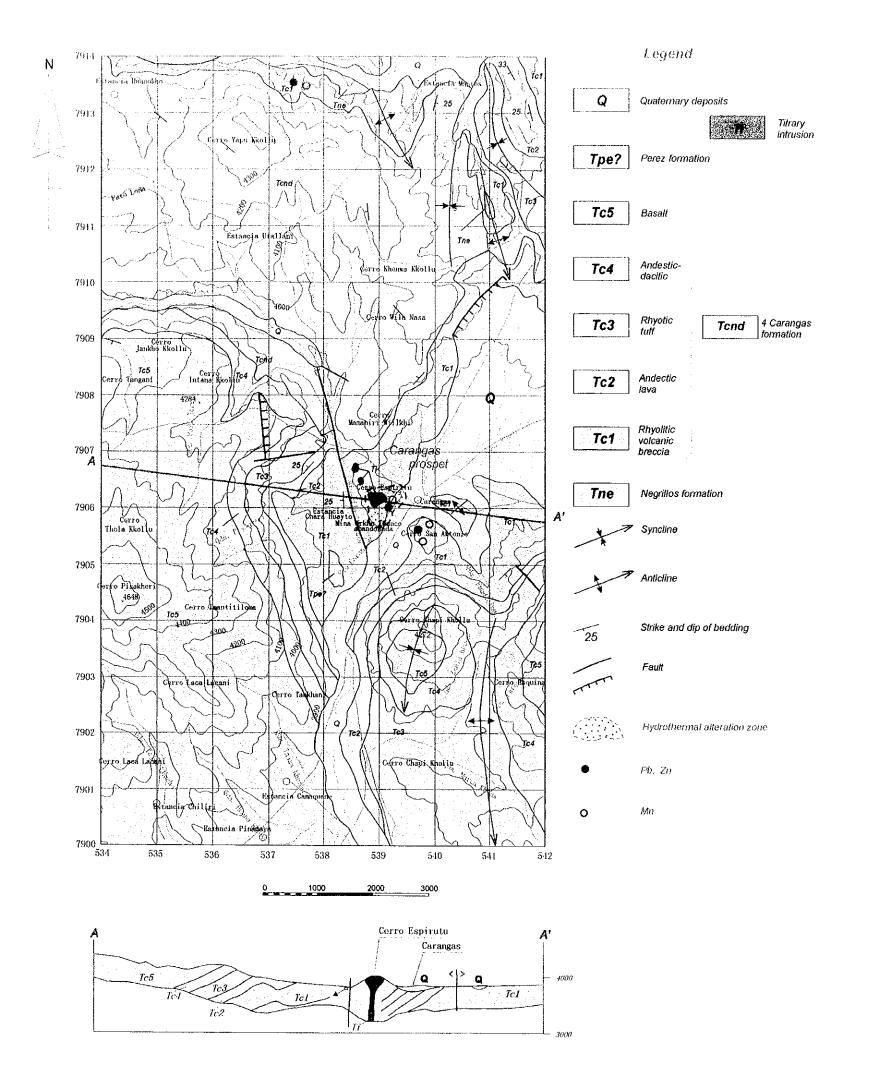
8019

8018

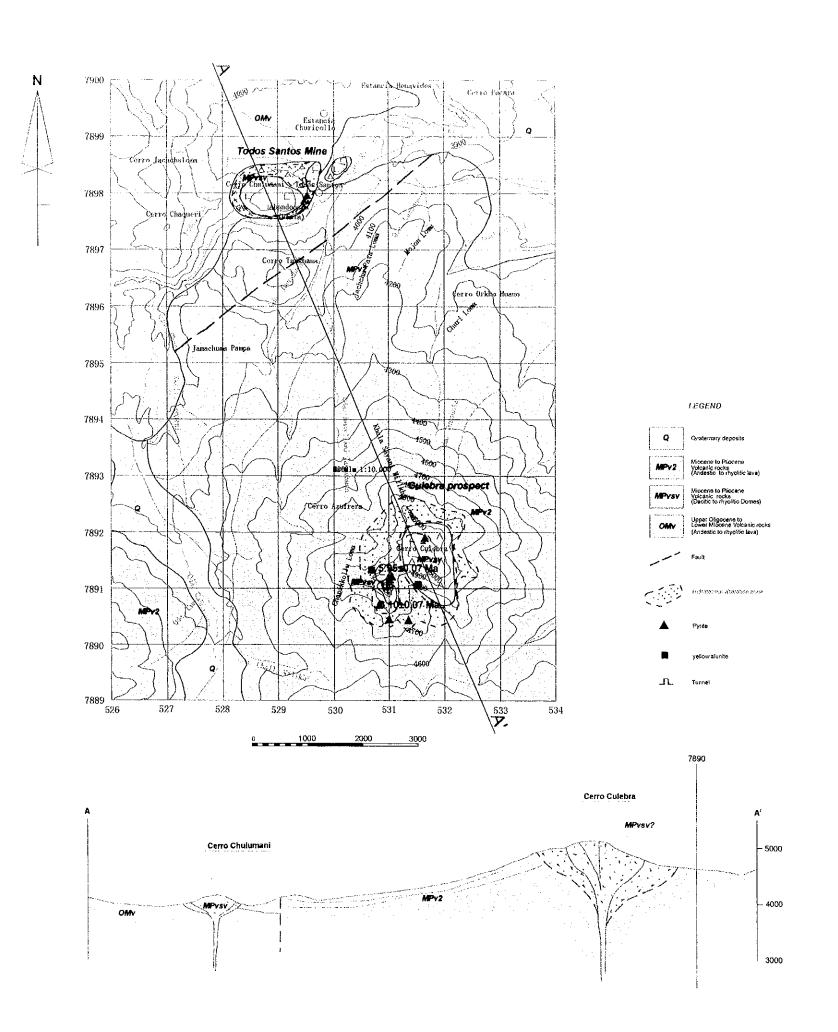
8017

8016

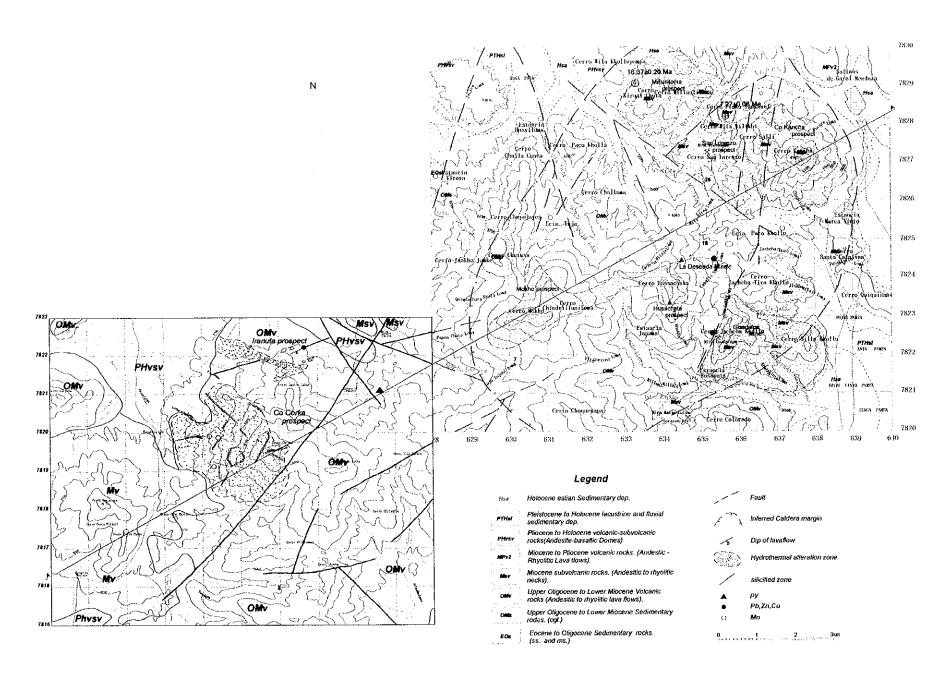


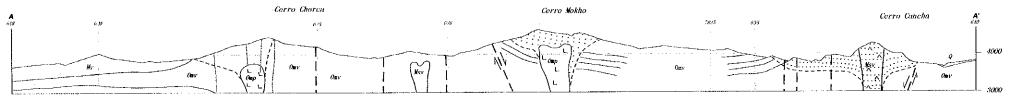


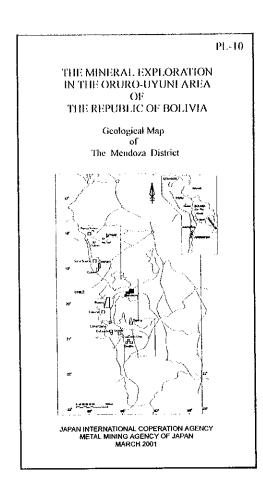
PL-8 THE MINERAL EXPLORATION IN THE ORURO-UYUNI AREA THE REPUBLIC OF BOLIVIA Geological Map The Carangas District 60° JAPAN INTERNATIONAL COPERATION AGENCY METAL MINING AGENCY OF JAPAN MARCH 2001

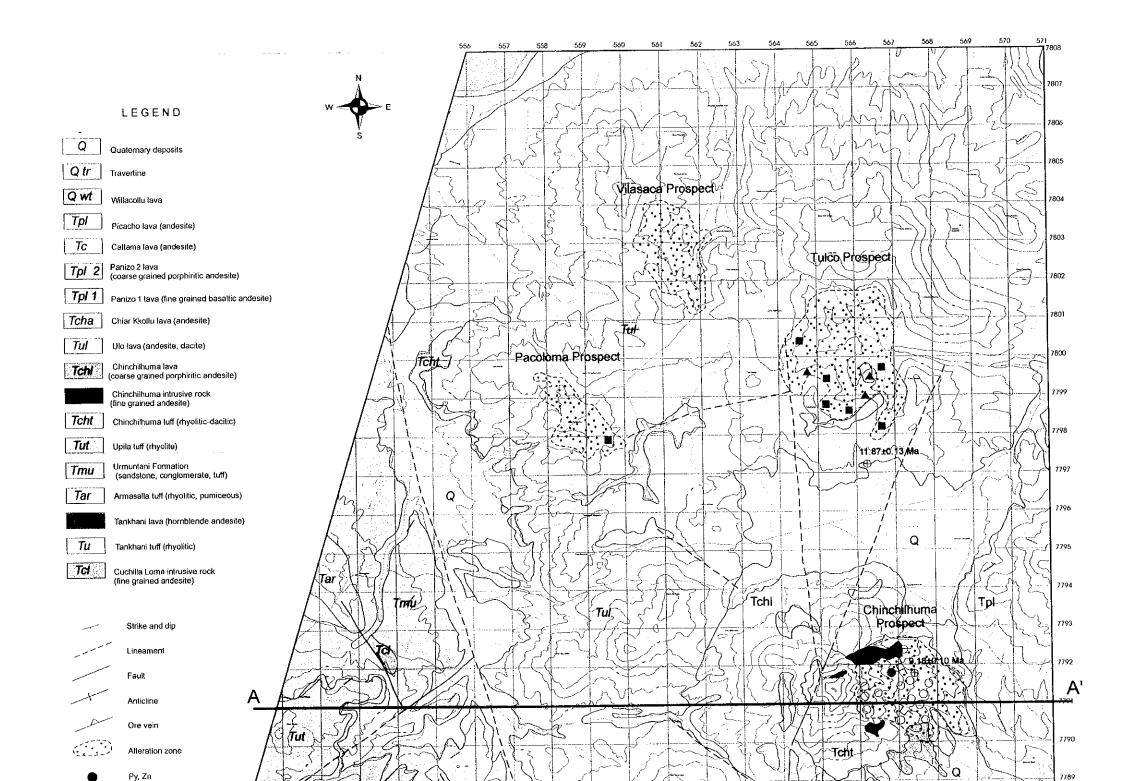


PL-9 THE MINERAL EXPLORATION IN THE ORURO-UYUNI AREA THE REPUBLIC OF BOLIVIA Geological Map of The Culebra District JAPAN INTERNATIONAL COPERATION AGENCY METAL MINING AGENCY OF JAPAN MARCH 2001

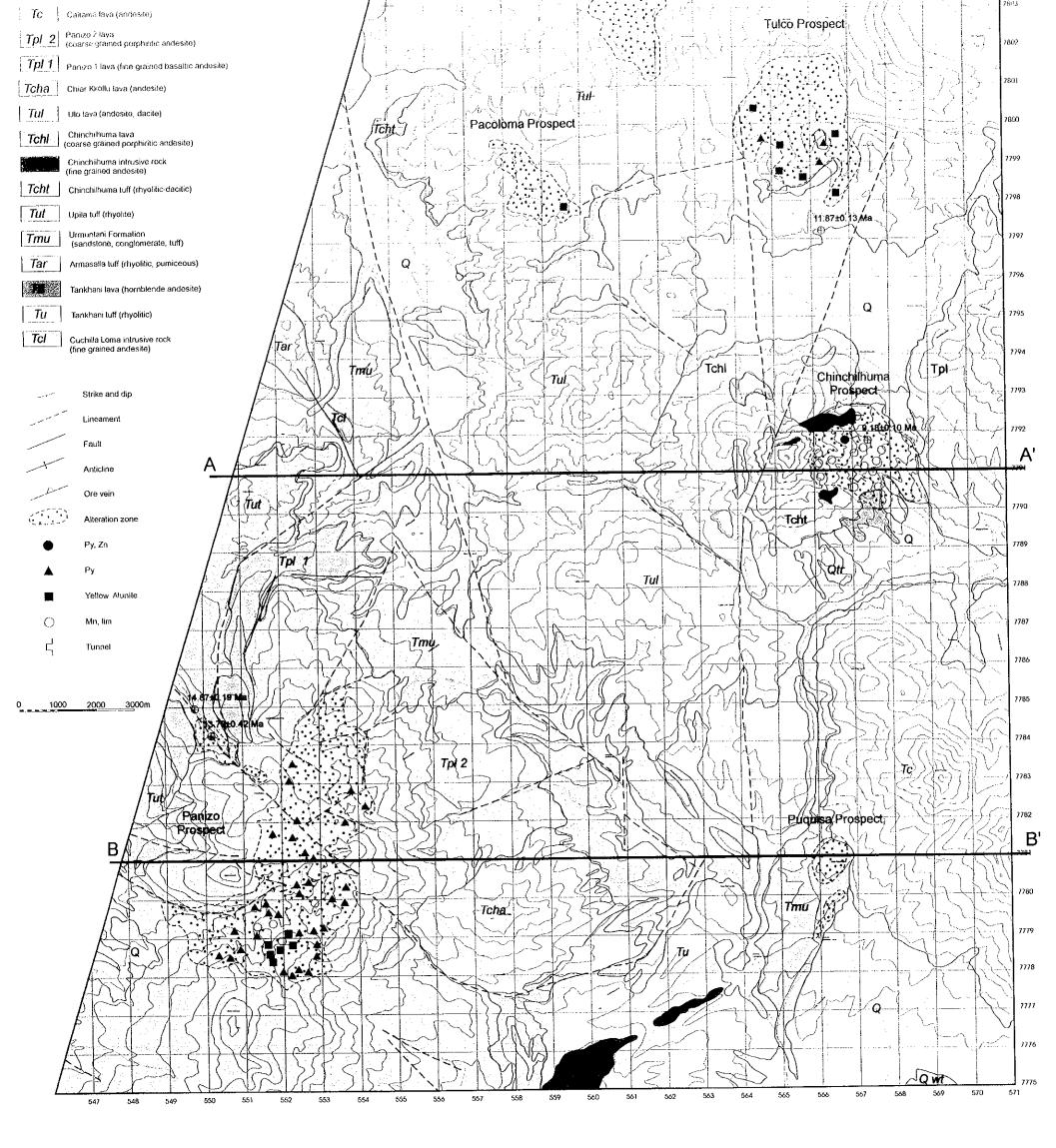




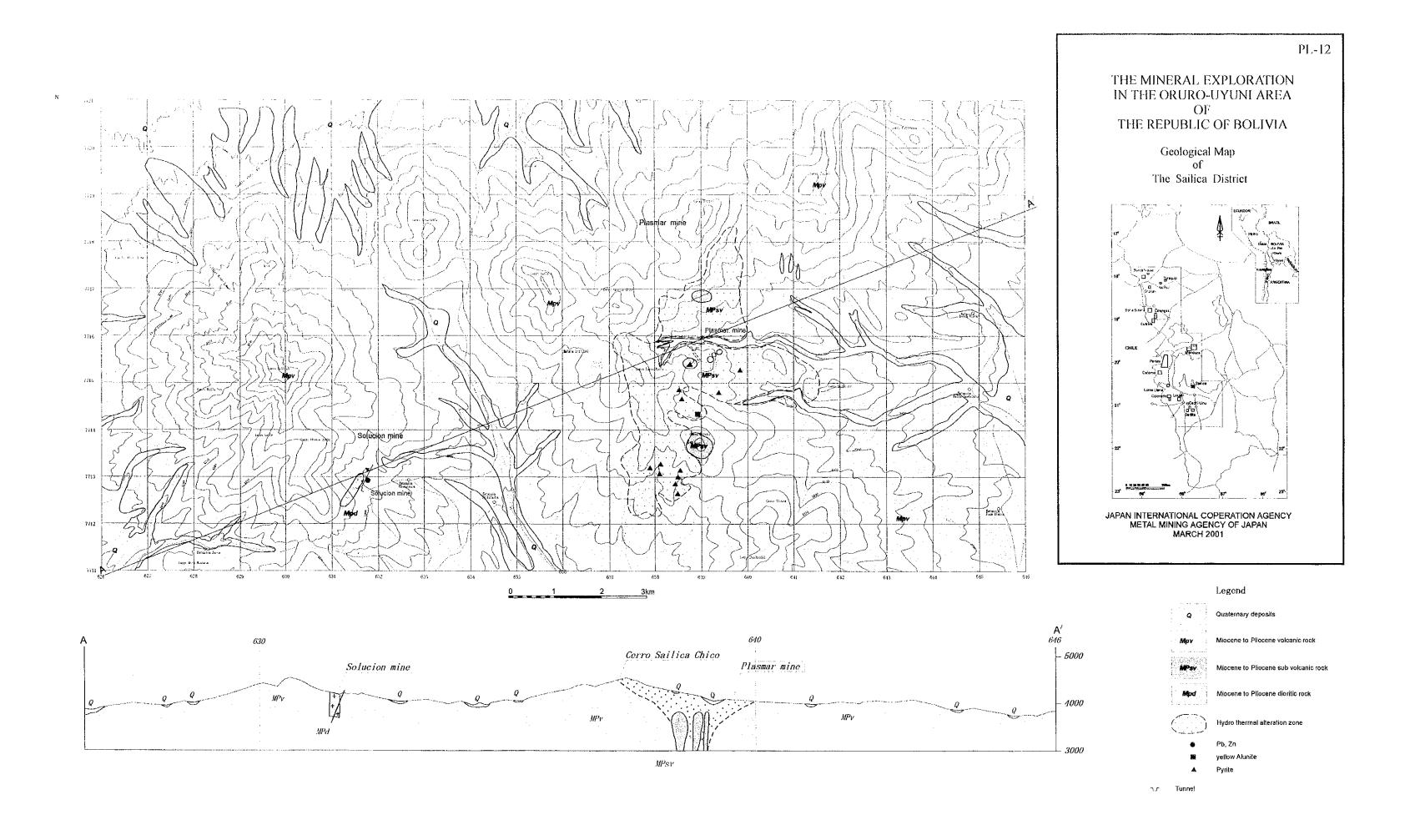


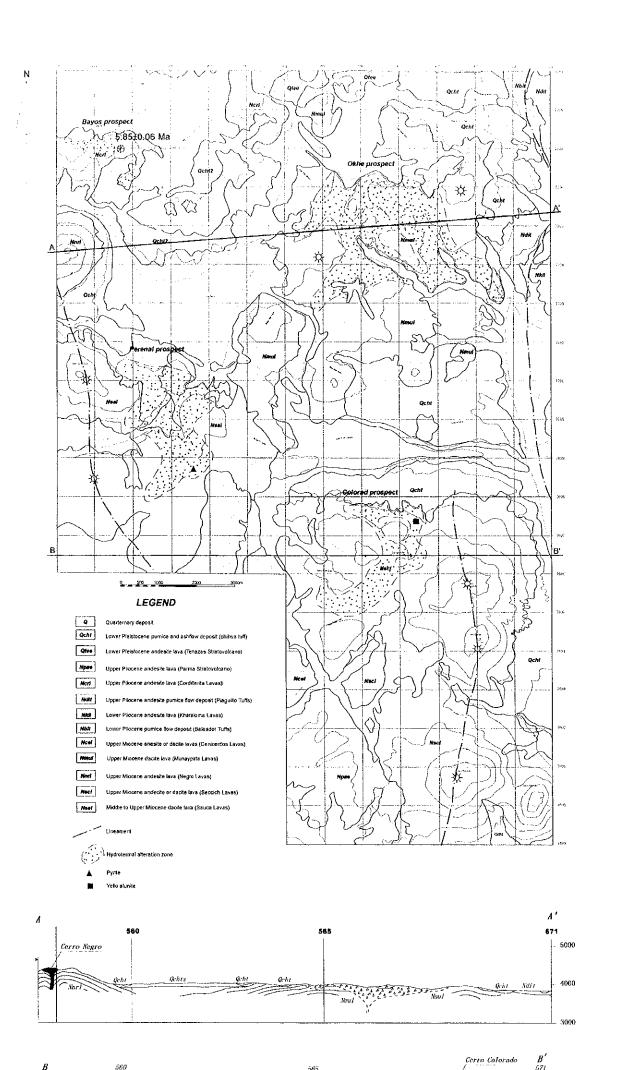


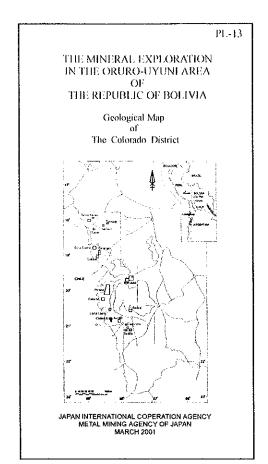
THE MINERAL EXPLORATION IN THE ORURO-UYUNI AREA OF THE REPUBLIC OF BOLIVIA Geological Map of The Panizo District

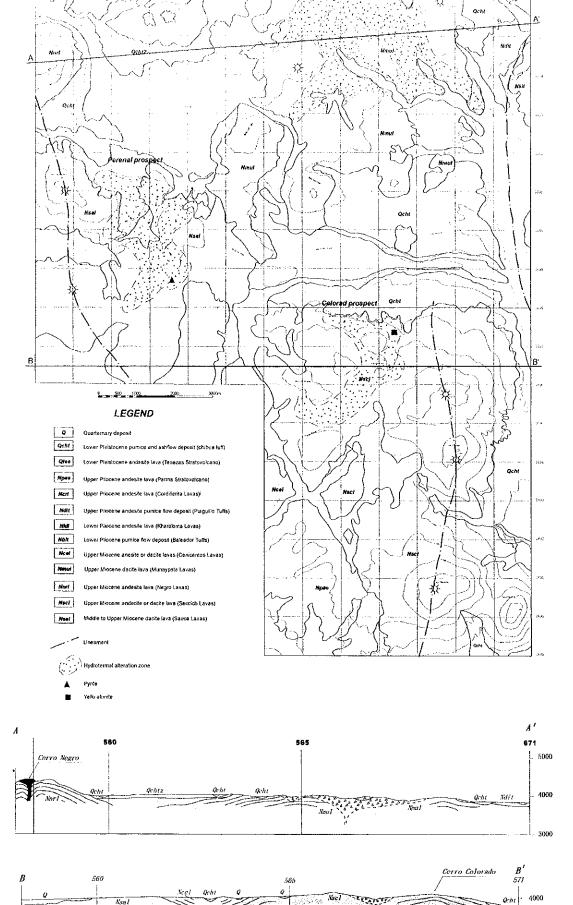


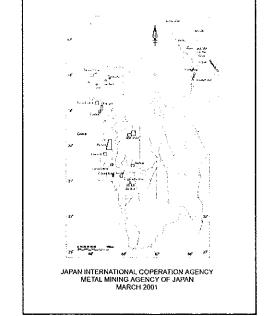




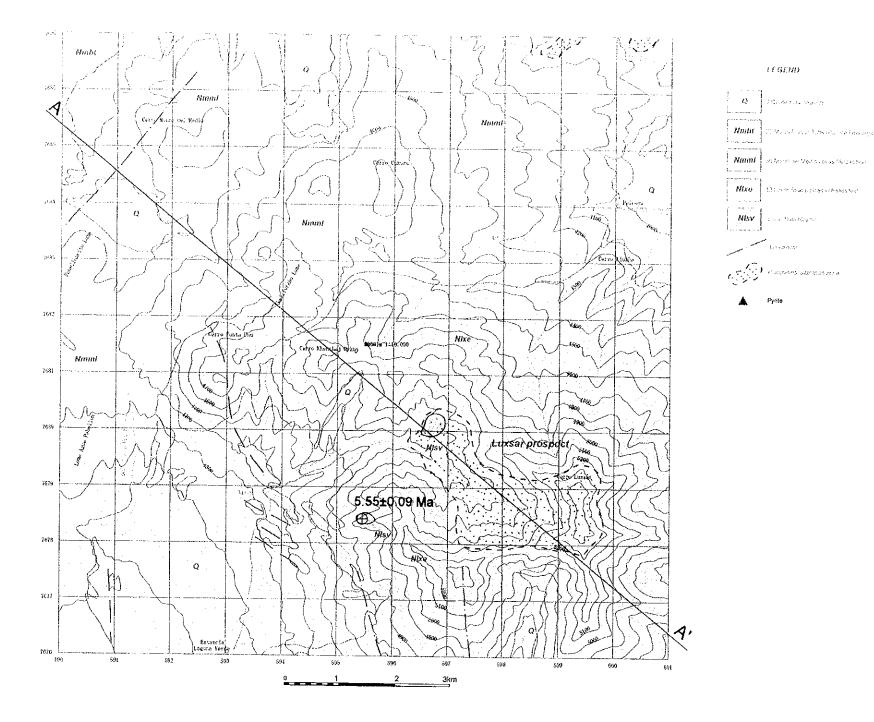


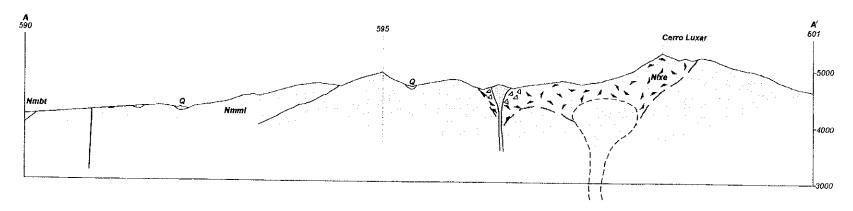




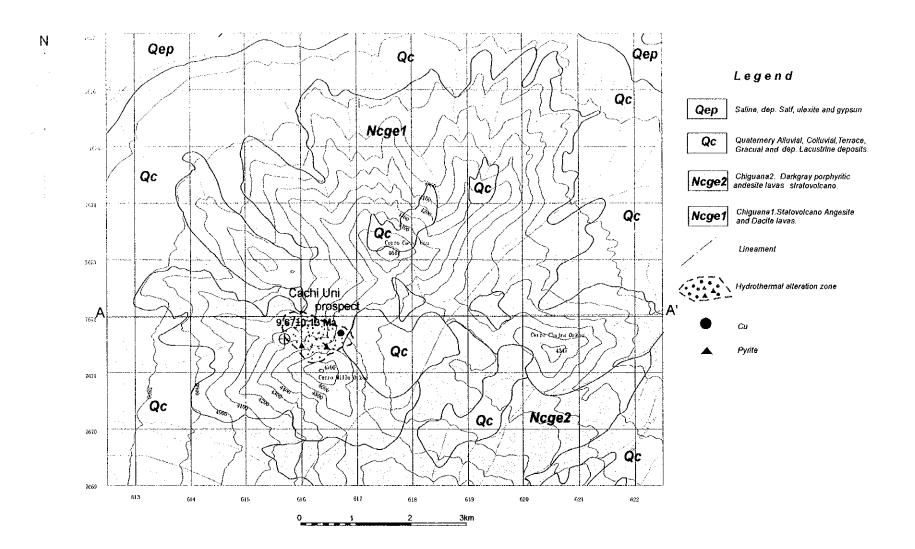


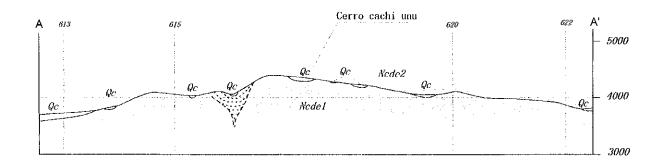




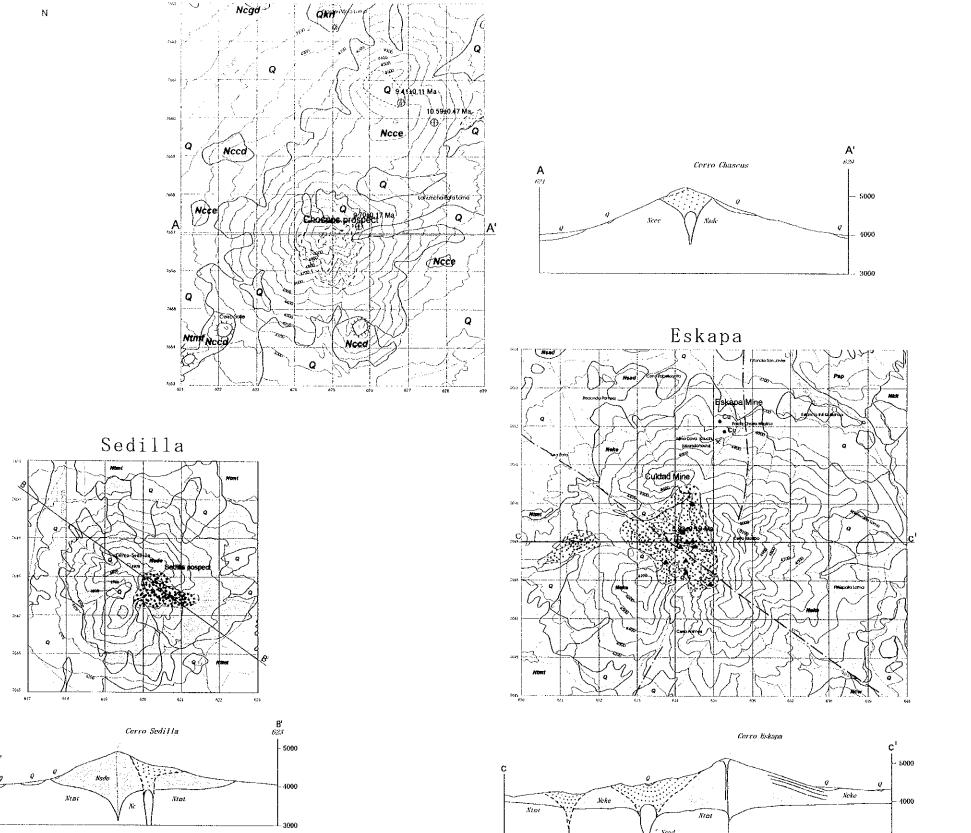


PL-14 THE MINERAL EXPLORATION IN THE ORURO-UYUNI AREA THE REPUBLIC OF BOLIVIA Geological Map of The Luxsar District JAPAN INTERNATIONAL COPERATION AGENCY METAL MINING AGENCY OF JAPAN MARCH 2001

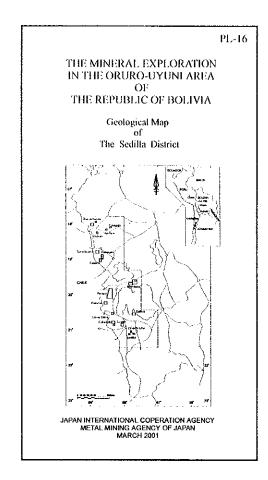




PL-15 THE MINERAL EXPLORATION IN THE ORURO-UYUNI AREA THE REPUBLIC OF BOLIVIA Geological Map The Cachi Unu District JAPAN INTERNATIONAL COPERATION AGENCY METAL MINING AGENCY OF JAPAN MARCH 2001



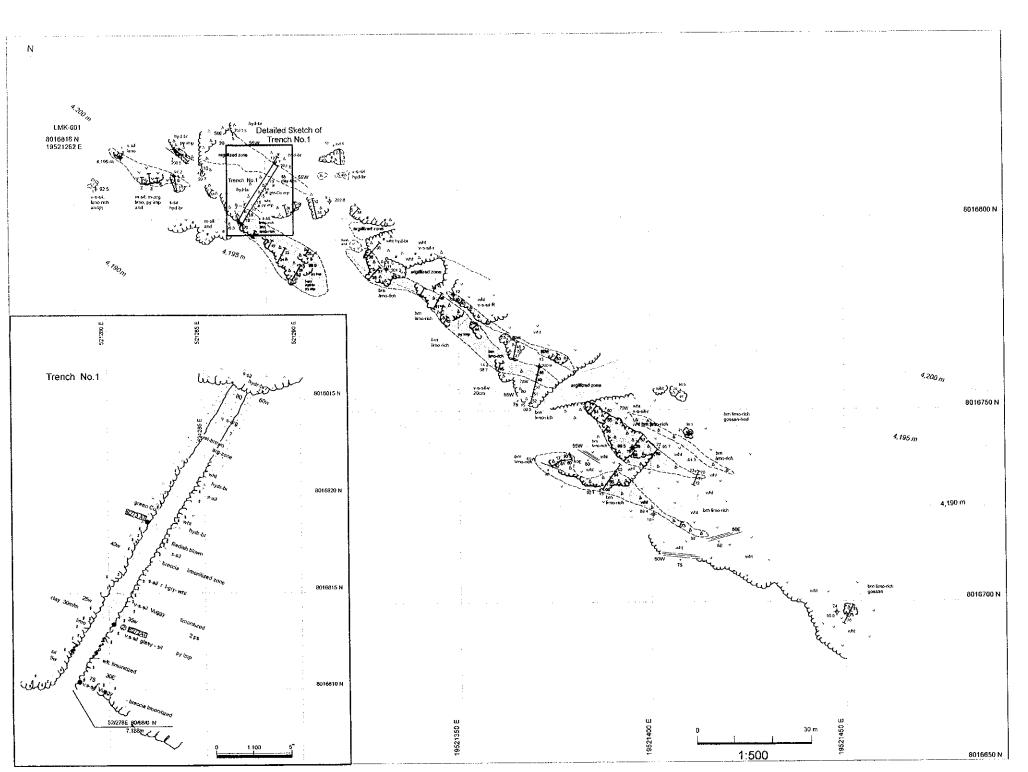
Chascos

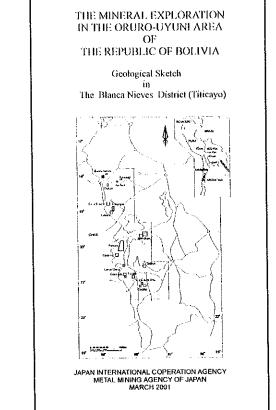


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A hydro thermal break

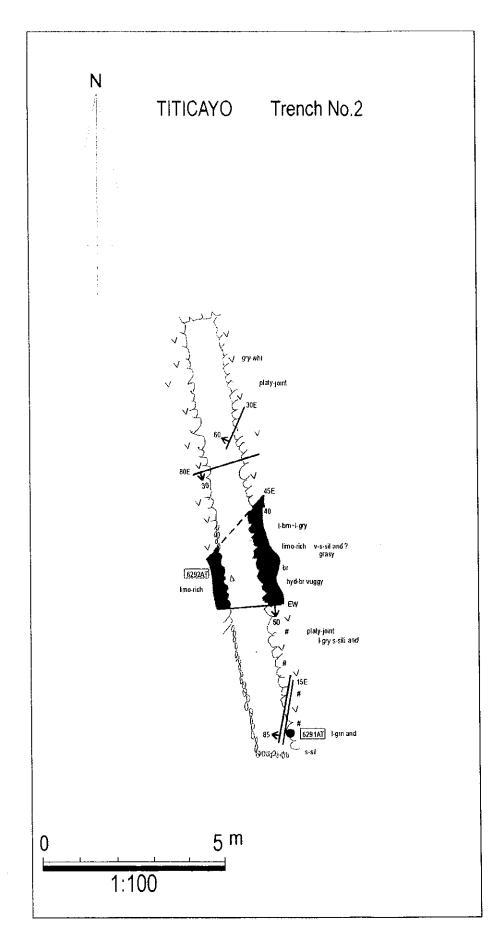
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Assay	Pasuli	of Ore	Sam
Assay	Result	OI OIG	COLL

	lss	ay Re	esuit	of O	e Sa	mple	38					
Sample I	No.	Αu	Ag	Cu	Pb	2n	As	Sb	Hg	Mo j	Bs	Sa
ou inpie		ppb	ppm	ppm	ppm	ppm	ppm'	ppm	ppm	ppm	ppm	ppro
12301 P	ИΗ	<2	0.6	70	1867	17	24	G	<1	5	2100	<5
12302	401	<2	22	17	1175	19	21	6	<1	1	1932	4
12303	ИH	<2	8.7	40	2628	58	67	<5	<1	. 5	1167	<5
12304	ин	<2	7.7	38	5069	73	74	6	41	- 4	681	<5
12305	VН	2	14.8	28	96 75	41	44	5	<1	3	82	٠,
12306	MH :	<2	8.6	41	13282	78	48	7	<1	5	107	4
12307	мн	2	112	52	7721	57	55	9	≺1	4	1292	<
12308	мн	2	15 2	44	6365	36	125	<5	<1	. 4	177	10
12309	MH	3	3.1	19	1885	21	16	7	<1	4	2023	<
12310	мк	<2	2.5	25	6675	138	40	<5	<1	4	2/5	Ÿ
12311	МН	47	< 5	5	5665	250	30	45	۲۱	2	273	¥
	иH	<2	8,8	30	506	24	12	G	<1	6	1121	4
12313	Mil	<2	<.5	4	3759	15	11	<5	41	2	605	~
	мн	<2	1.5	4	4816	30	18	<5	<1	<1	1528	<
	мн	42	<.5	8	2552	41	18	S	- 41	<1	454	~
	мн	2	35	16	2545	33	44	<5	<1	3	1112	<
	MH	<2	56.6	16	1348	17	12	<5		6	709	- 2
	мн		164	31	3964	24	163	10	- 1	9	1263	1
	MH	<2	ļ	23	3281	28	117	- 5		6	1245	10
	MH			34	2798	23	821	22		110	1707	1-
	MH		+	25	6762	29	419	15	13	- 6	1742	╁╴
						29	486		1 -	10	1618	
	МН	<2	·	36	3928	1		4	4	5	190]-,
	MH	<2	1	27	5448	30	582	+		4	2324	
	MH	<2		21	1430	17	263			ł		ļ
	MH	<2		-		52	678		-		266	4
	МН	<7	+	- 26	+	25			*	10	175	
	MH	<2	4	15		52		ł	4			
12328	мн	<2		1	ł	31	391	ł	+	4		+
12329	МН	<2	13 6		1	33			1	4		1
12330	МH	<	10.7	17	987	43	-					
12331	MH	<	15.2	1	468	20		·	4			+
12332	MH	ď	0.8	12	4175	25	5	1.5		1 1	132	
12333	MH	•	0.8	2	1355	71	15	' . <	<	11	255	1.:
12334	МН		1.7	1	1477	34	6	4		! </td <td>133</td> <td>١</td>	133	١
12335	МН	<	5.6	1	1340	2	5 41	3 <	_ <	5 <1	24	
12336	МН	•	50.0	2	810	40	40	3 <	4	1	276	1
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12338	МН	<	16.	3	4235	2	127	1 1		1 7	102	1
12339	МН		2 21.9	2	293	20	27	4 3	5 4	1 3	153	4
12340	МН	<	2 9.2	5	1750	5	34	0 <	5 1.3	1.3	115	
12341	МН	-	2 21.	3 5	2570	4:	30	6 <	5 6			1
12342	мн						4 7	5	1.3		145	1
12343	MH		-1			·		- }	-i	+	8 291	
12344	MH						+	-+		. 4	3 113	
12345	MH	}							9		7 152	4
12346	МН	1			_	_		-	7 4		2 55	
12346	MH	-1			1	- 4	+		4		3 54	- 4
								-1	6 3	-	2 31	-
12348	MH				· 			- 4				
12349	MH	11	2 56.						힉:		4 62	
12350	f,tH		2 13		8] 117	8 4	3 13		6] <		41 73	



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Δ hydrothermal breccia







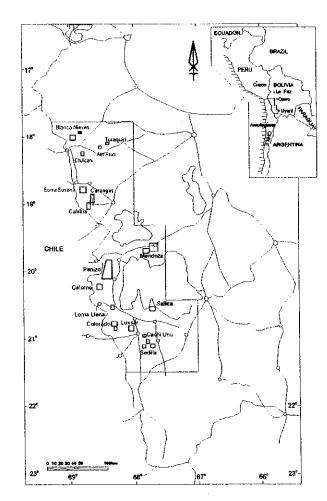
fracture joint

Assay Result of Ore Samples													
Serial	Sample No.	Au	Ag	Cu	Pb	Zn	As	Sp	Hg	Мо	Ba	Sr	
No.	Sample No.	ppb	ppm	ppm	ррm	bbw	ppm	ppm	ppm	ppm:	ррп:	6bi	
9	6291 AT	<2	229	27	452	25	12	6	<1	7	2114	<	
10	6292 AT	<2	55.5	31	96	13	7	<5	<1	8	3645	<	

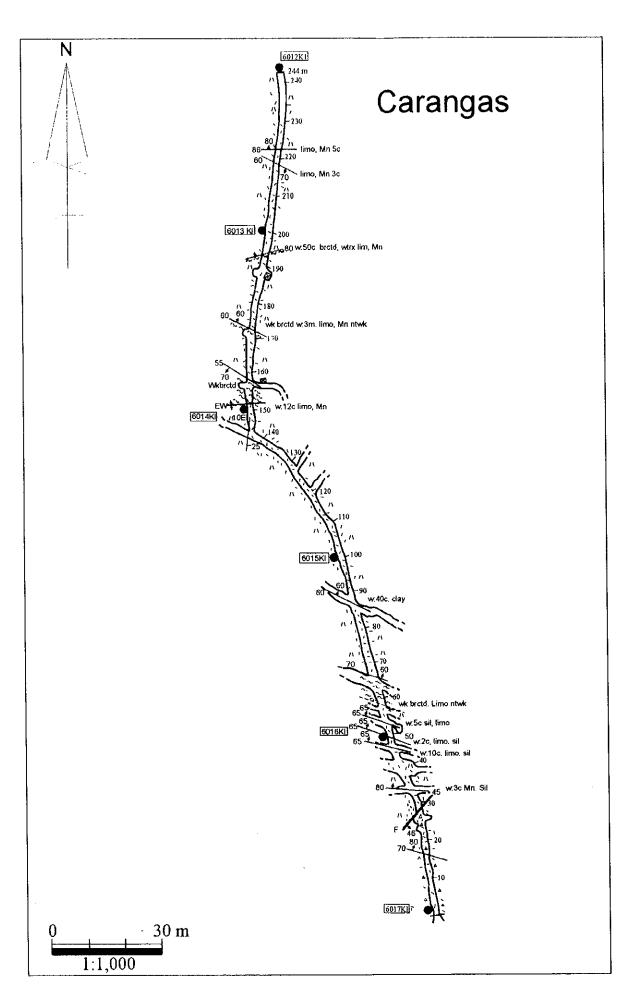
PL-18

THE MINERAL EXPLORATION IN THE ORURO-UYUNI AREA OF THE REPUBLIC OF BOLIVIA

Geological Sketch in The Blanca Nieves District (Titicayo)



JAPAN INTERNATIONAL COPERATION AGENCY METAL MINING AGENCY OF JAPAN MARCH 2001



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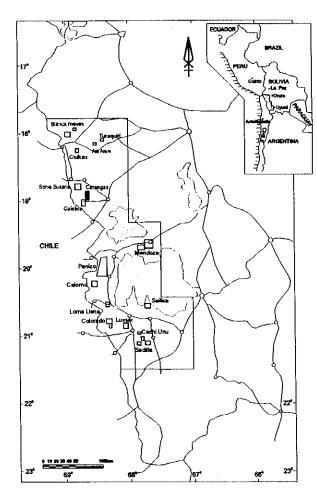
Assay Result of Ore Sample

Serial		Au	Ag]	Cui	P6	Zn	As	Sb	Hg	Mo	Ba .	Sn
No.	Sample No	ppb	ppm	ррп	ppm	ppm	opm	ppm	ррт	ρрп	ppm	ρрп
95	6012 KJ	<2	2	15	241	554	22	24	<1	4 5	670	*
96	6013 KI	<2	112	73	3964	1343	31	20	<1	<1	1419	¥
97	6014 KI	42	17.9	65	696	1054	21	14	<1	1	1070	٧
98	6015 XI	<2	47.4	76	7061	6532	22	17	<;	•	600	<
99	6016 KI	<2	45.7	87	19800	2743	21	12	₹1	1	842	4
100	6017 KI	<2	15.3	16	1907	351	72	11	<1	<1	1266	<

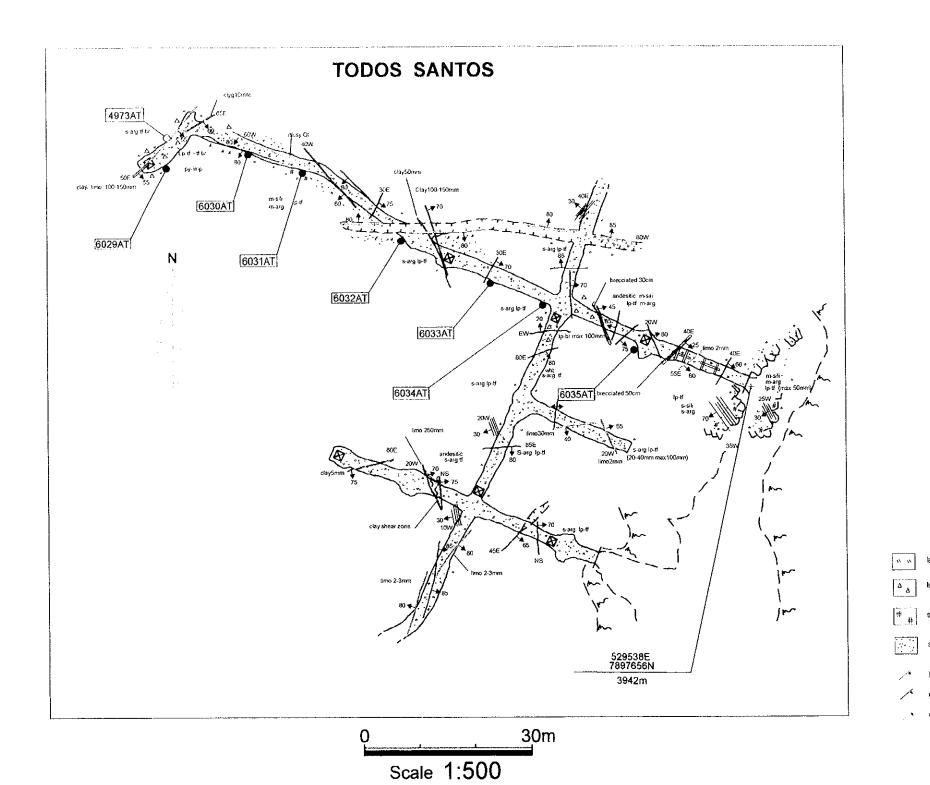
PL-19

THE MINERAL EXPLORATION IN THE ORURO-UYUNI AREA OF THE REPUBLIC OF BOLIVIA

Geological Sketch in The Carangas District (Mina Carangas)



JAPAN INTERNATIONAL COPERATION AGENCY METAL MINING AGENCY OF JAPAN MARCH 2001

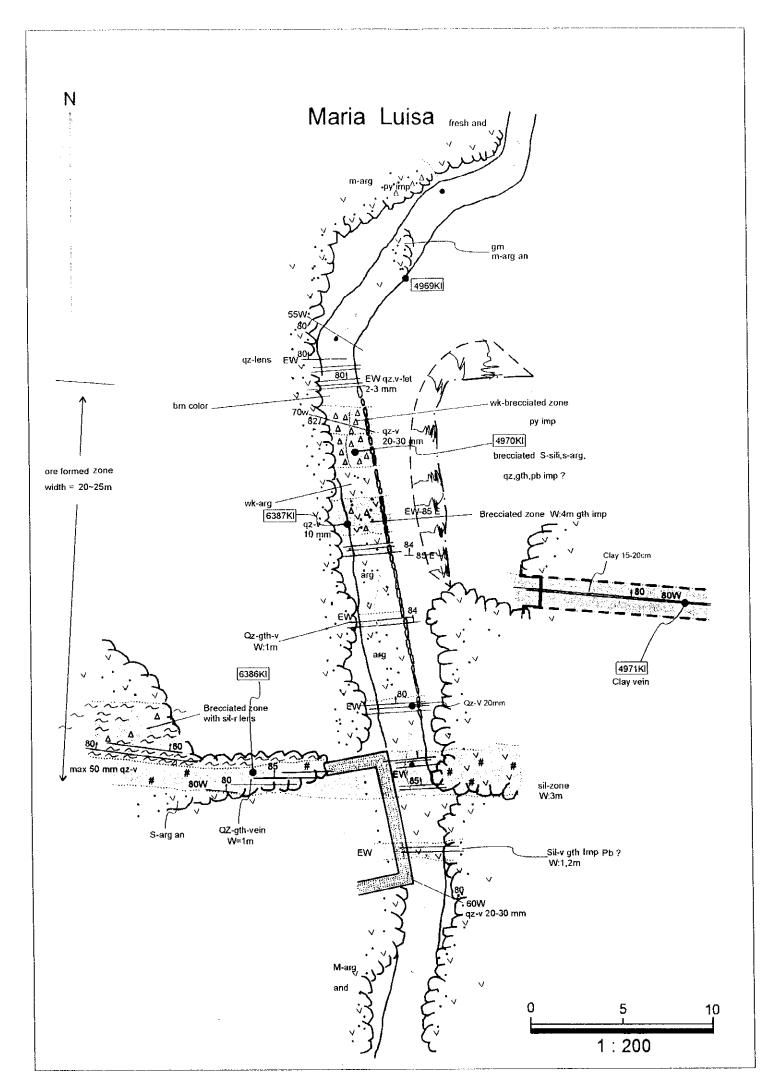


Assay Result of Ore Samples

Assay Result of Ore Camples													
Serial	Sample i	N ₁₀	Au	Ag	Cu	Pb	Zn	As	Sb	Hg	Мо	Ba	Sn
No.	Sample	NO.	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
103	6029	AT	<2	45.4	64	8200	5888	83	20	<1	3	931	<5
104	6030	ΑT	<2	33	94	2642	63799	170	9	<1	<1	106	<5
105	6031	ΑT	<2	19.3	56	2659	16523	123	10	<1	<1	616	<{
106	6032	AT	<2	83.2	110	5159	19604	140	17	<1	<1	1015	</td
107	6033	ΑT	<2	32.8	5	1988	5928	112	12	<1	<1	881	</td
108	6034	ΑT	<2	35	18	3173	16434	102	11	<1	<1	820	<:
109	6035	ΑT	<2	240	63	19500	680	74	17	<1	<1	1250	<

PL-20 THE MINERAL EXPLORATION IN THE ORURO-UYUNI AREA THE REPUBLIC OF BOLIVIA Geological Sketch in The Culebra District (Mina Todos Santos) JAPAN INTERNATIONAL COPERATION AGENCY METAL MINING AGENCY OF JAPAN MARCH 2001

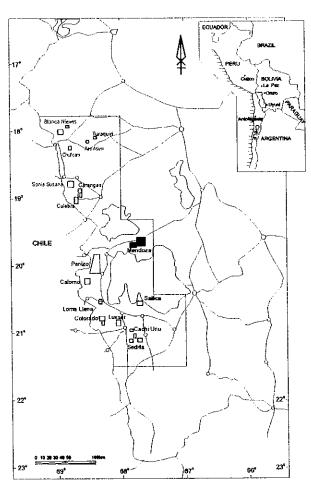
Legend



PL-21

THE MINERAL EXPLORATION IN THE ORURO-UYUNI AREA OF THE REPUBLIC OF BOLIVIA

Geological Sketch in The Mendoza District (Mina Maria Luisa)



JAPAN INTERNATIONAL COPERATION AGENCY METAL MINING AGENCY OF JAPAN MARCH 2001

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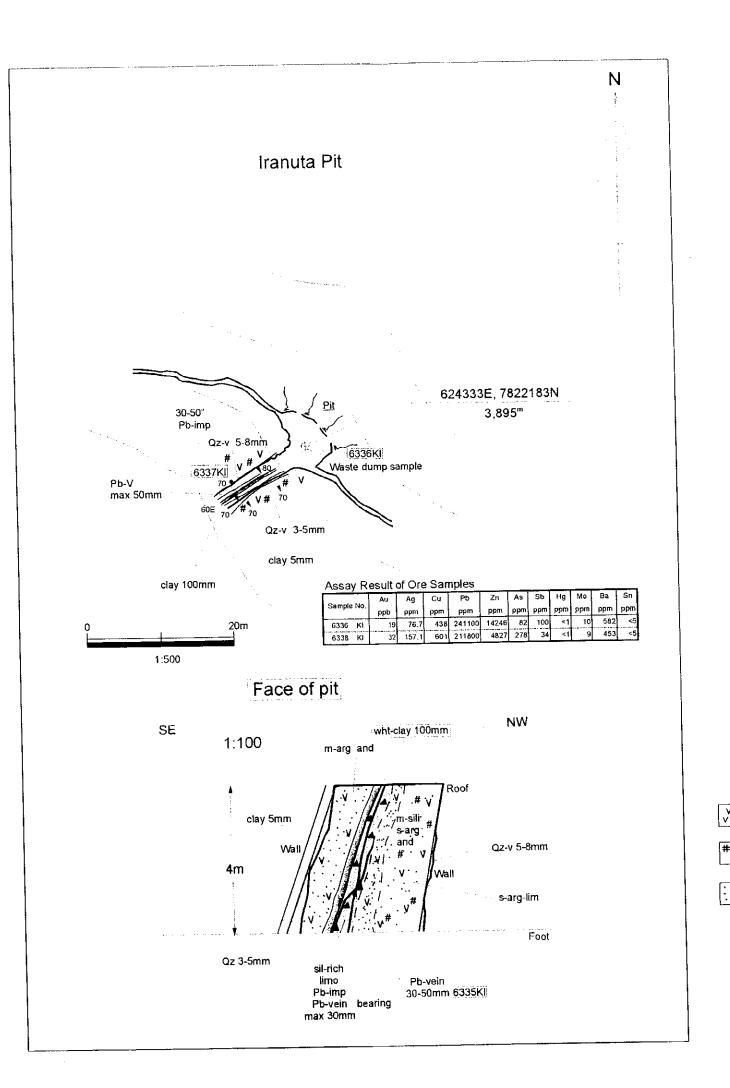
▲ ▲ pyrile impregnation

quartz vein

/

Assay Result of Ore Samples

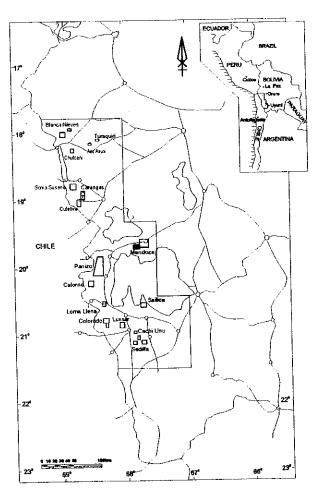
Sample No.	Au	Ag	Cu	Pb	Zn	As	Sb	Hg	Мо	Ва	Sn
Sample No.	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
6386 KI	460	1108	1175	30600	7319	58	48	<1	19	749	<5
6387 KI	25	51	33	7385	3827	40	30	6.6	6	375	<5



PL-22

THE MINERAL EXPLORATION IN THE ORURO-UYUNI AREA OF THE REPUBLIC OF BOLIVIA

Geological Sketch in The Mendoza District(Iranuta)

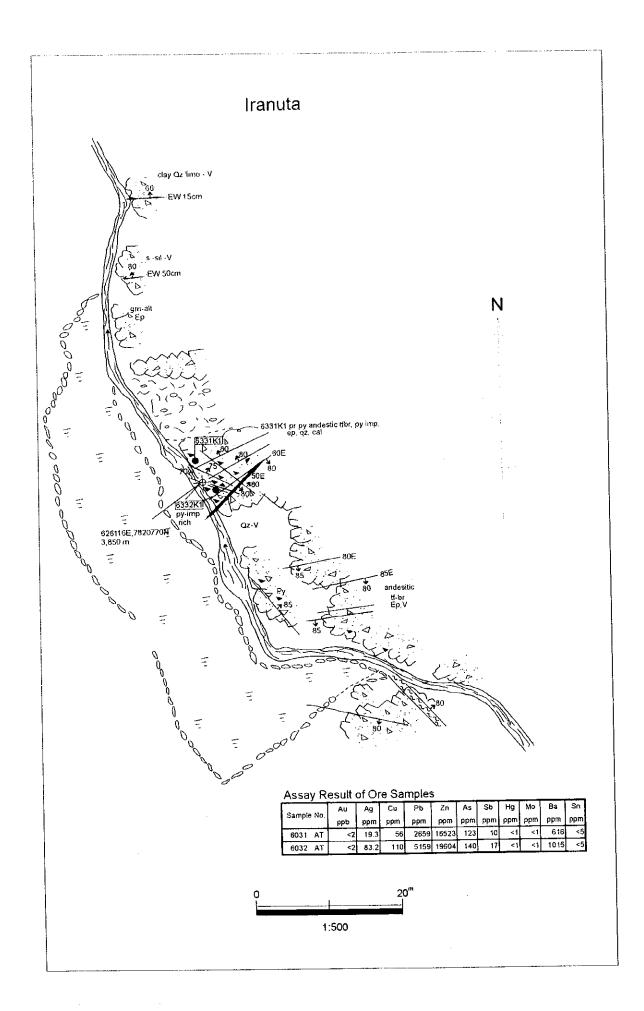


JAPAN INTERNATIONAL COPERATION AGENCY METAL MINING AGENCY OF JAPAN MARCH 2001

Legend

quartz vein,siliceous vein

clay vein



Legend



tuff breccia



argillized zone

pyrite impregnation



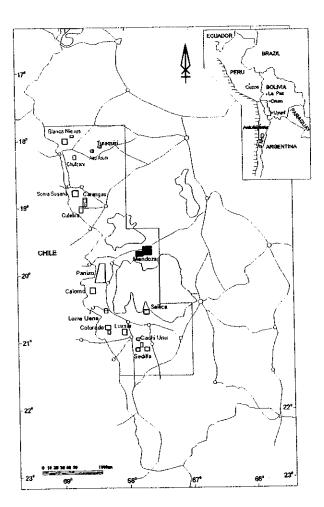
quartz veit

fracture, fissure joint

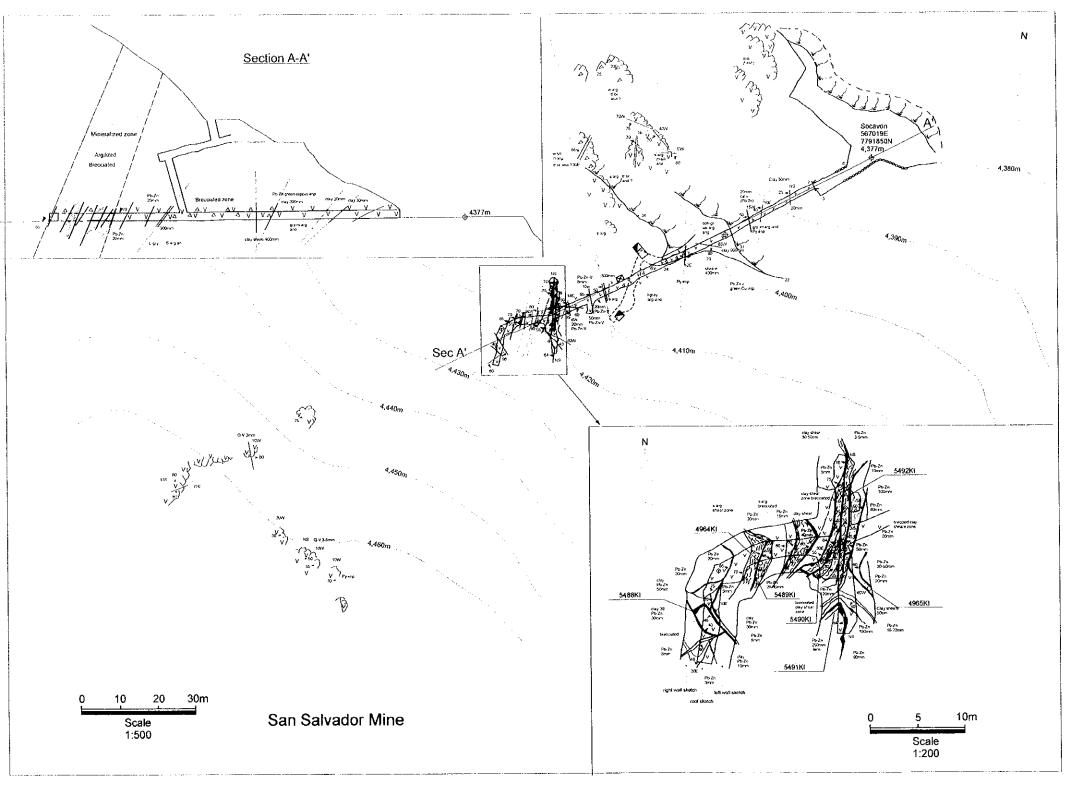
PL-23

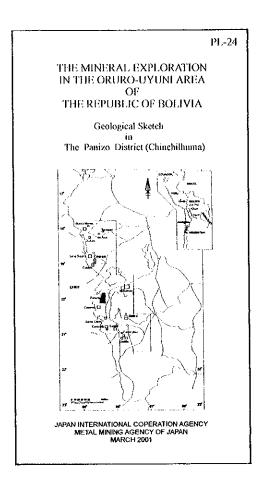
THE MINERAL EXPLORATION IN THE ORURO-UYUNI AREA OF THE REPUBLIC OF BOLIVIA

Geological Sketch in The Mendoza District (Iranuta)



JAPAN INTERNATIONAL COPERATION AGENCY METAL MINING AGENCY OF JAPAN MARCH 2001





Legend

V andreste

A precisional zone

special zone

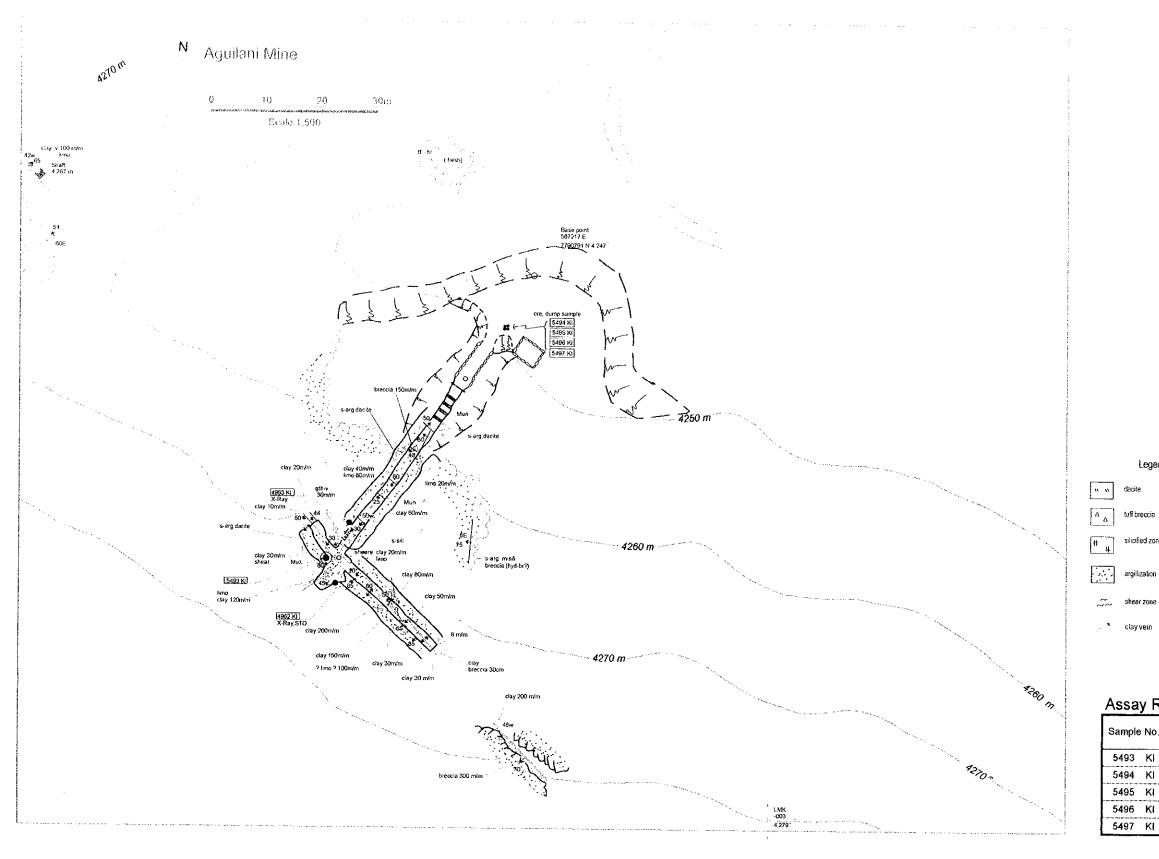
stakes zone

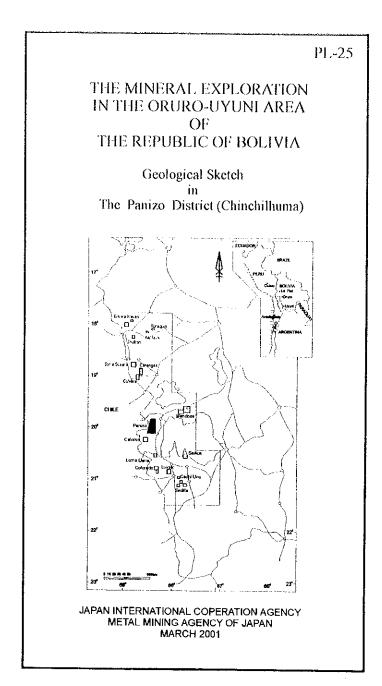
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Assay Result of Ore Samples

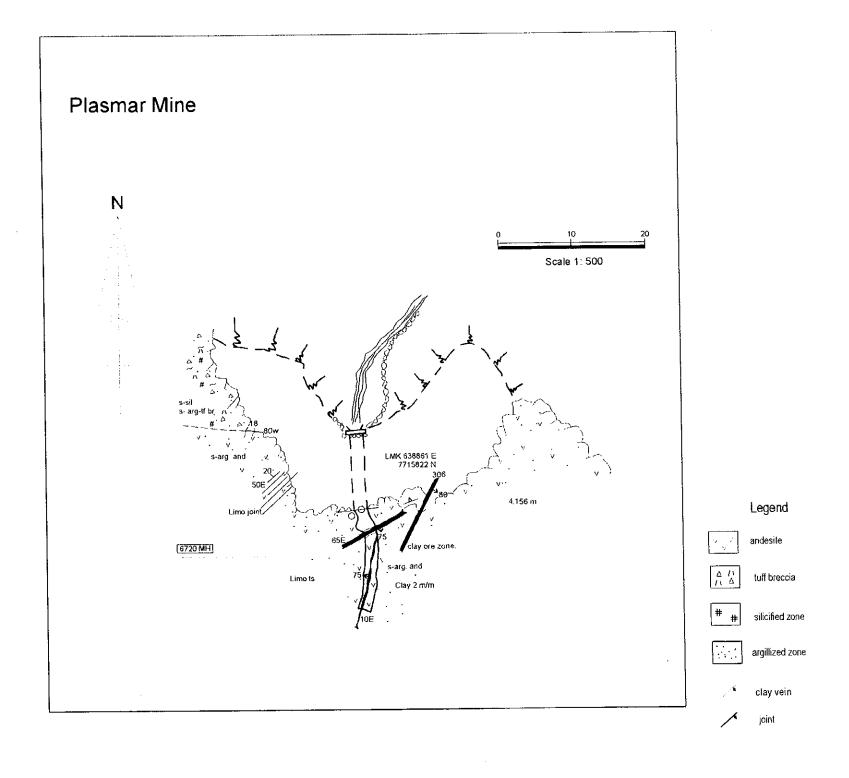
Ca10 Mg	Au	Ag	Cu	Pb	Zn .	As	Sb	Hg	Мо	Ва	Sn
Sample No.	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppn
5488 KI	1305	79.8	361	59000	40275	1949	51	<1	107	72	Ÿ
5489 KI	348	83.8	1358	37700	279334	274	58	<1	1	189	<
5490 KI	284	171.1	4097	89500	229006	553	350	<1	18	85	<
5491 KI	225	209.5	5051	116800	354923	549	387	<1	33	89	<
5492 KI	460	982	5402	82600	292821	1125	368	<1	53	203	<5





Legend

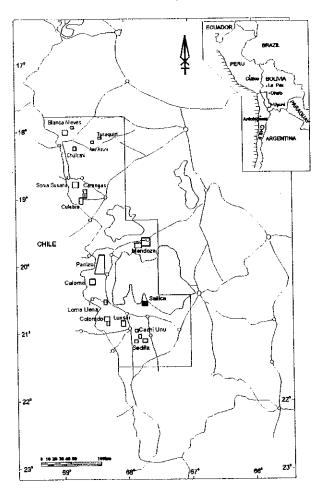
Assa	y R	esult (of Oi	e Sa	mples	i						
Sample	. No	Au	Ag	Cu	Pb	Zn	As	Sb	Hg	Мо	Ва	Sn
	- 110.	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
5493	ΚI	349	100	1308	58700	24445	494	76	4.1	49	16	<5
5494	ΚI	29	29.8	132	1394	5484	46	7	<1	11	784	<5
5495	ΚI	549	338	26705	5613	65781	510	93	<1	10	39	31
5496	Ki	1197	678	47279	1688	35657	888	446	<1	15	<2	83
5497	ΚI	660	470	23476	29500	107054	1271	193	<1	15	25	39



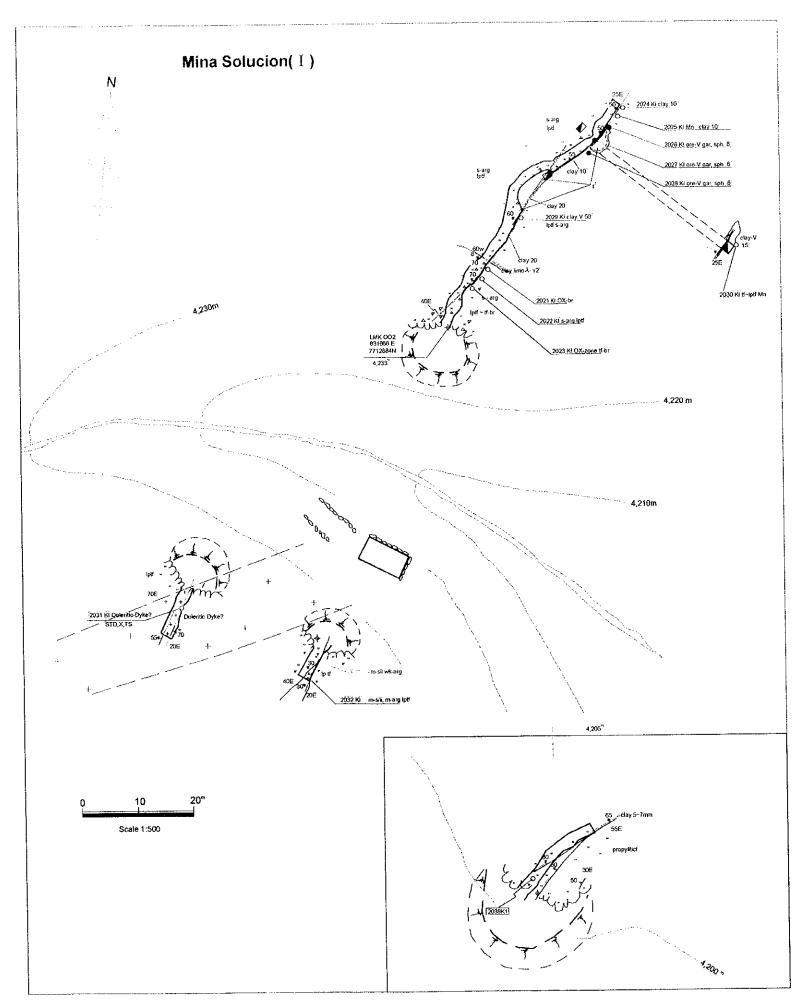
PL-26

THE MINERAL EXPLORATION IN THE ORURO-UYUNI AREA OF THE REPUBLIC OF BOLIVIA

Geological Sketch in The Panizo District (Plasmar Mine)



JAPAN INTERNATIONAL COPERATION AGENCY METAL MINING AGENCY OF JAPAN MARCH 2001



Legend

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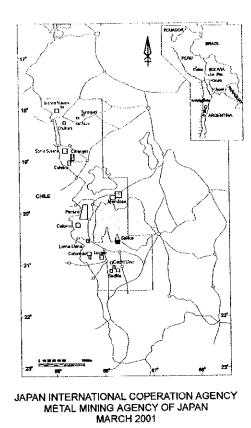
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PL-27

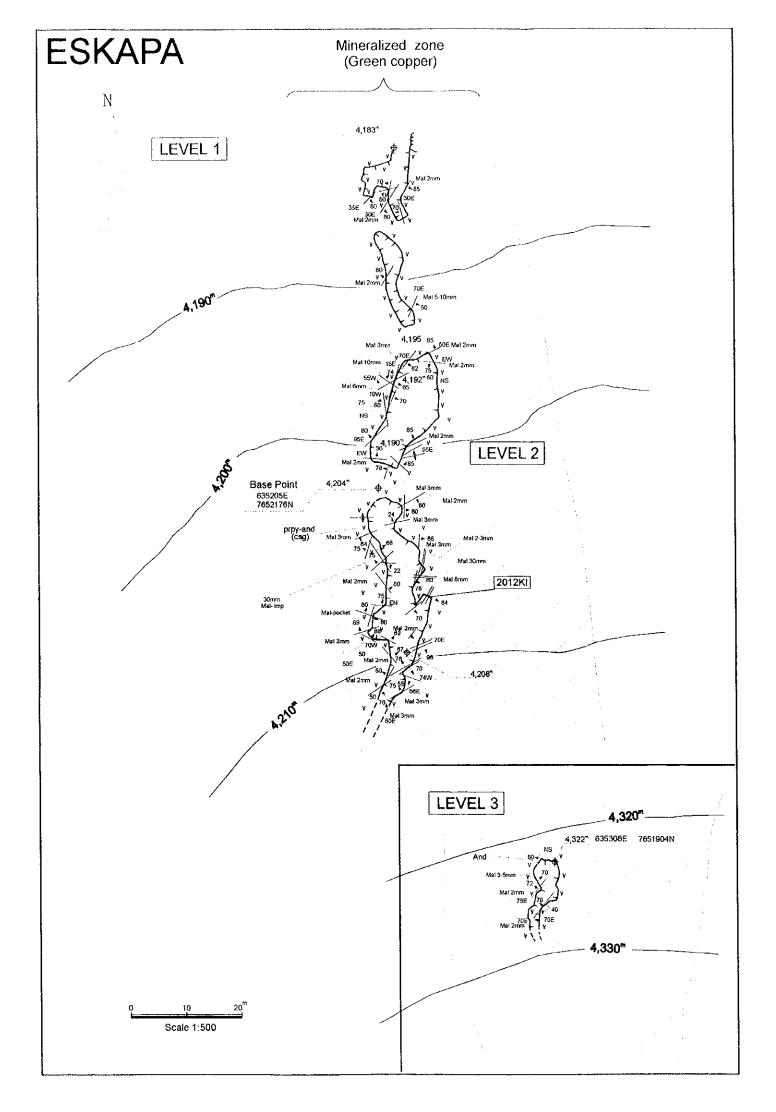
THE MINERAL EXPLORATION IN THE ORURO-UYUNI AREA OF THE REPUBLIC OF BOLIVIA

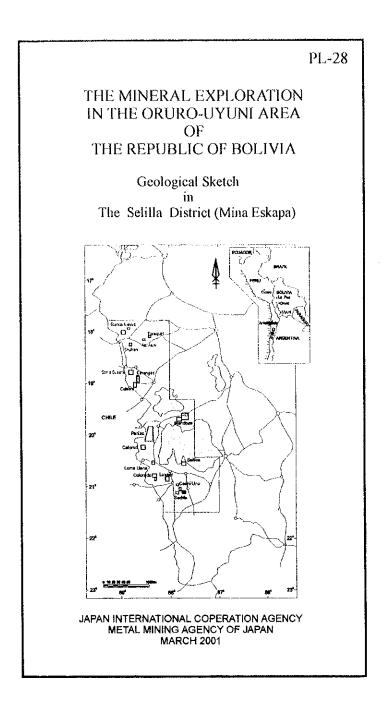
Geological Sketch in The Sailica District (Mina Solucion)



Assay Result of Ore Samples

		Au	Ag	Cu	Pb	Zn	As	Sb	Hg	Мо	Ba	Sn
Sample	No.	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
2024	KI	14	1.1	15	266	1374	29	23	<1	1	1365	<
2025	KI	345	124.9	1195	14869	20293	136	270	<1	2	661	<
2026	ΚI	1422	474	2365	85500	140533	376	789	<1	17	275	3
2027	ΚI	1944	603	1990	118900	252491	463	886	2.0	26	113	<
2028	ΚI	406	166.7	583	43800	65805	219	248	<1	29	337	<
2029	KI	3	0.6	9	162	1266	12	23	<1	<1	1238	<
2030	ΚI	15	4.3	180	1153	4415	130	31	<1	1	420	_ <
2032	KI	95	47.3	849	5776	7794	190	120	<1	9	454	_ <
2033	KI	<2	<.5	19	16	71	<5	5	<1	<1	227	
2035	KI	4	11.3	1186	1285	1315	252	35	<1	35	20	٠









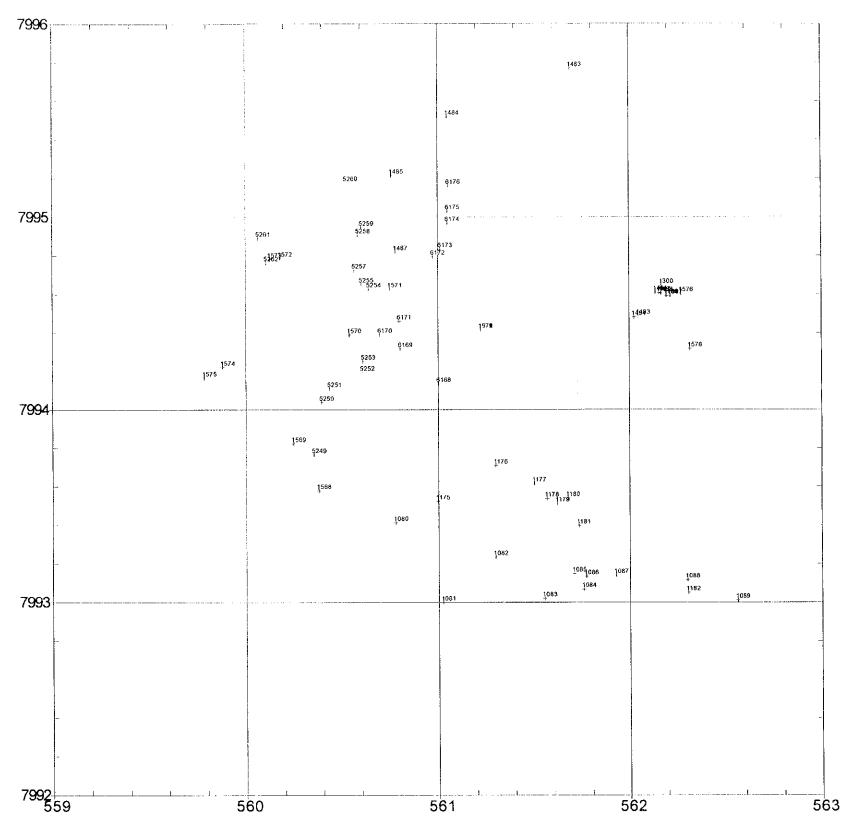


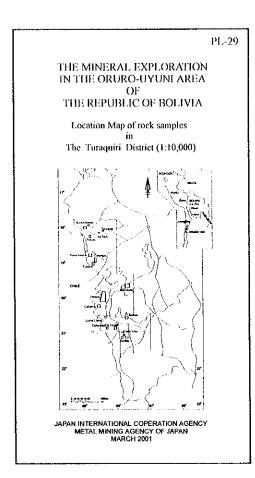


Assay Result of Ore Samples

	- ,000 mg -											
1	Sample No	Au	Ag	Cu	Pb	Zn	As	Sb	Hg	Mo	Ba	Sn
i	Sample No	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	2012 KI	<2	15.5	60406	<3	139	<5	<5	<1	1	1453	<5

Turaquiri

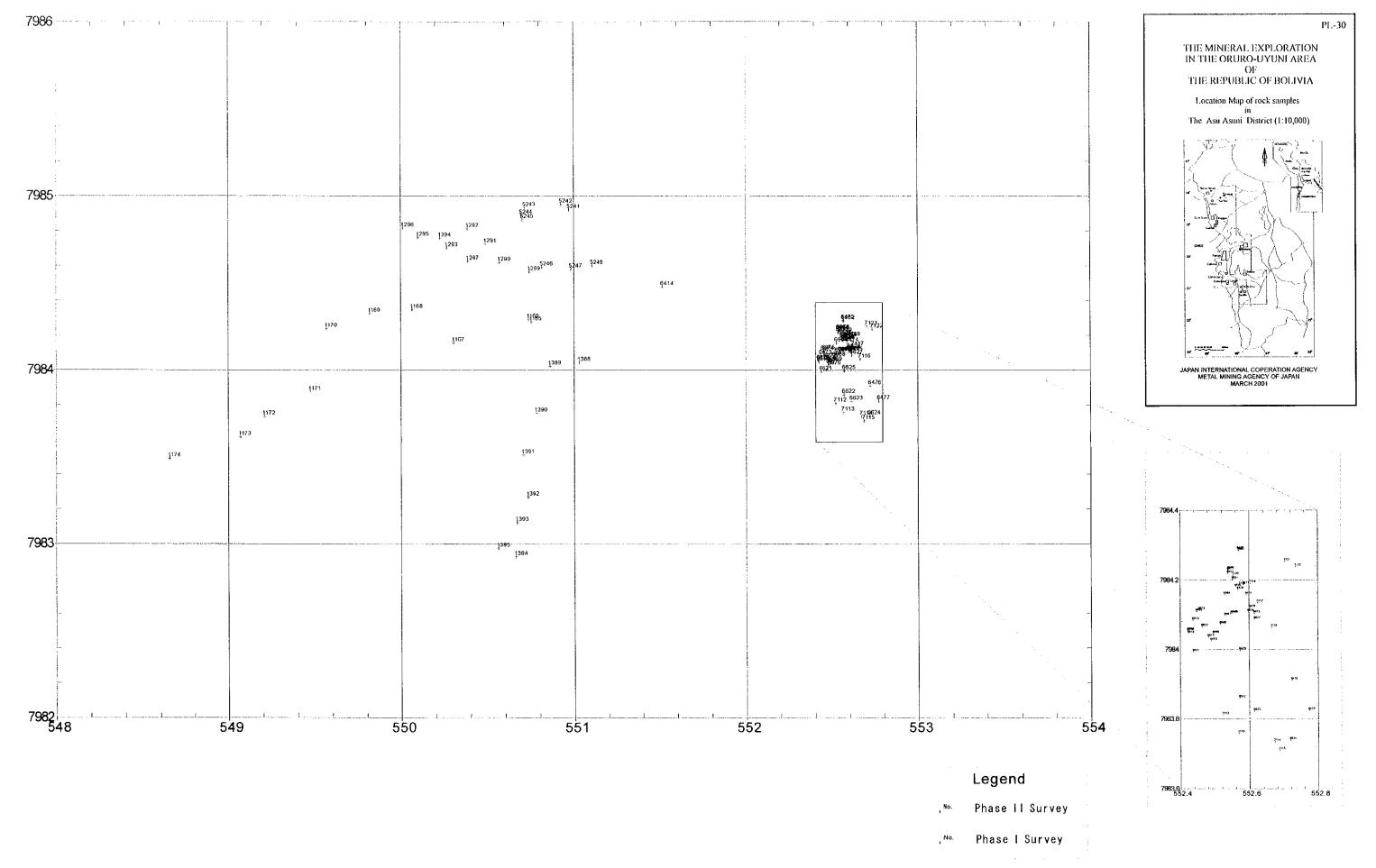




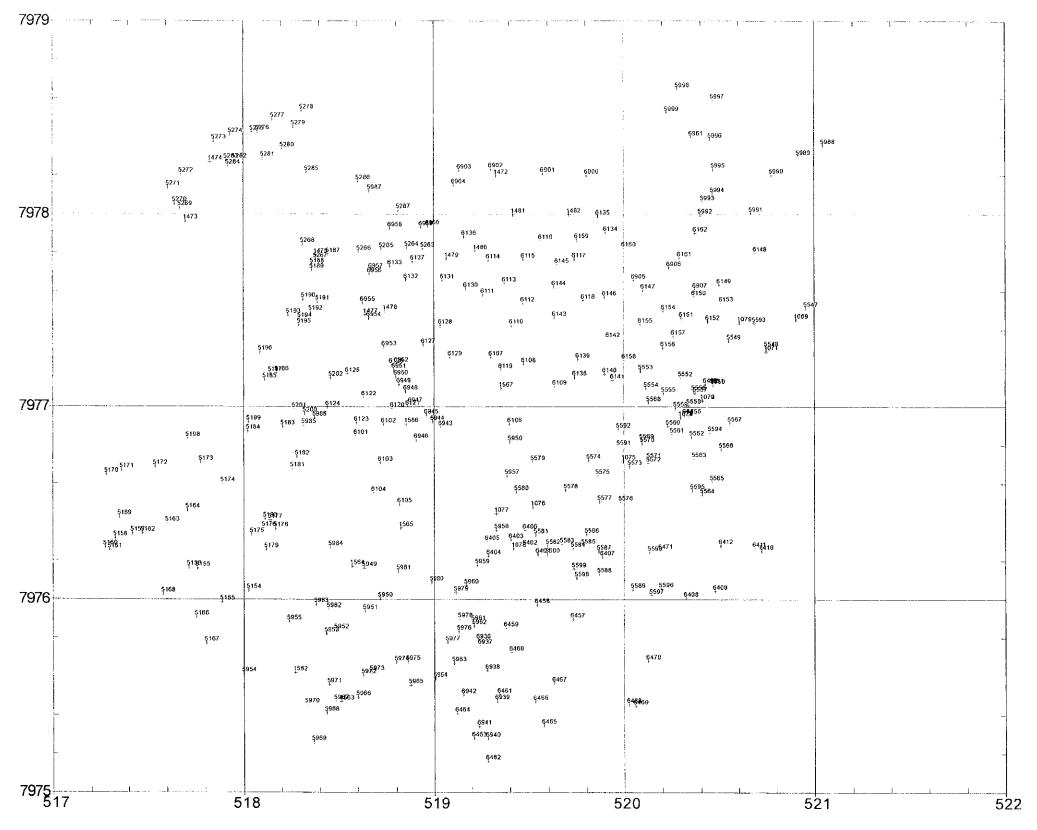
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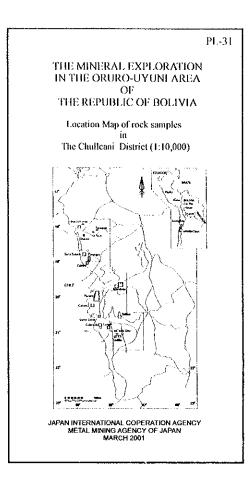
- No. Phase II Survey
- , №. Phase I Survey

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Chullcani

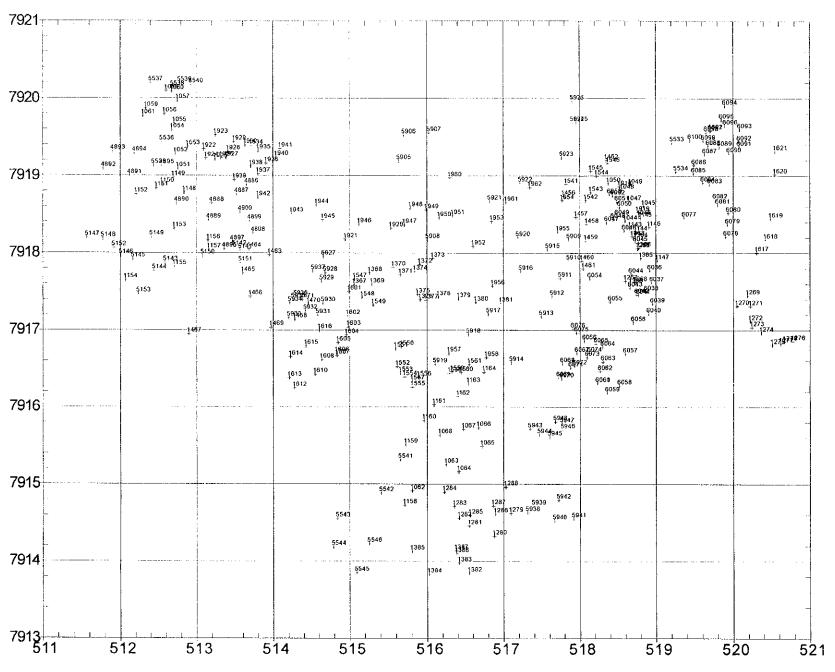


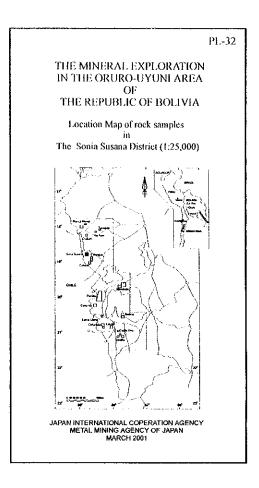


Legend

- No. Phase II Survey
- + No. Phase I Survey

Sonia Susana

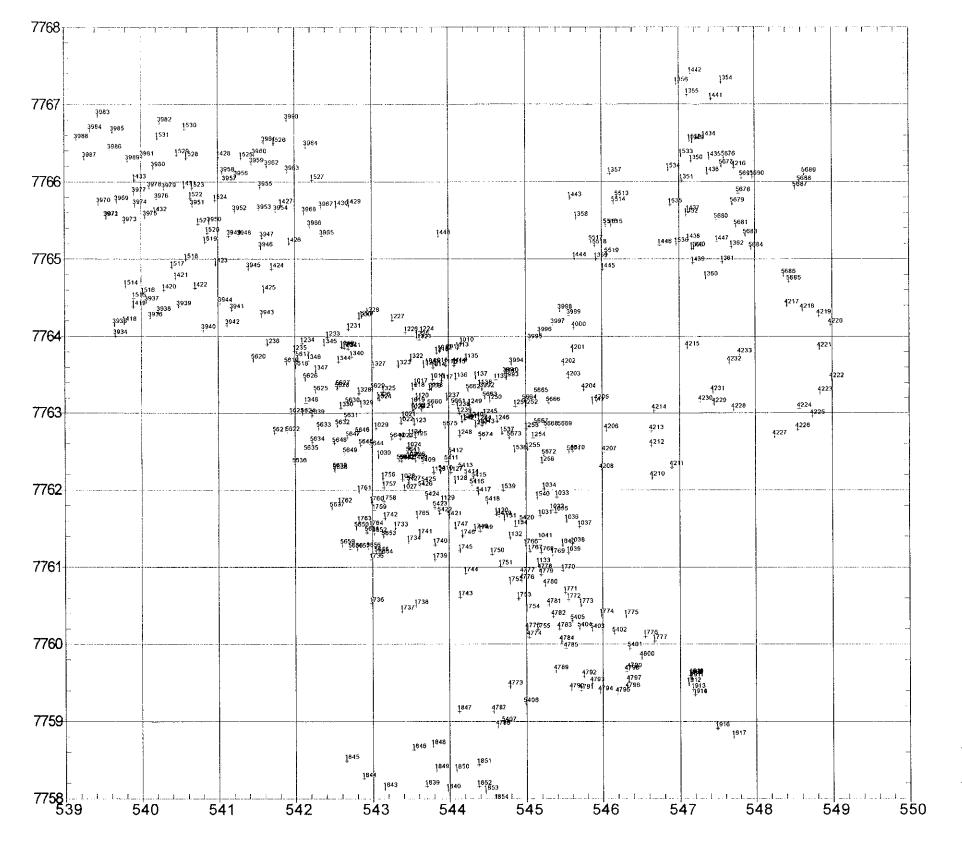


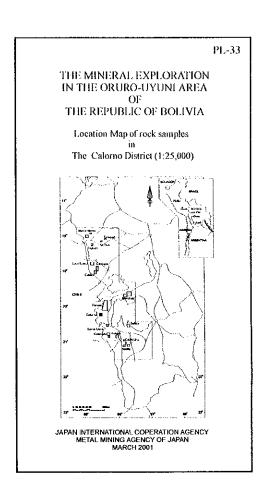


Legend

- No. Phase II Survey
- ₊^{No.} Phase I Survey

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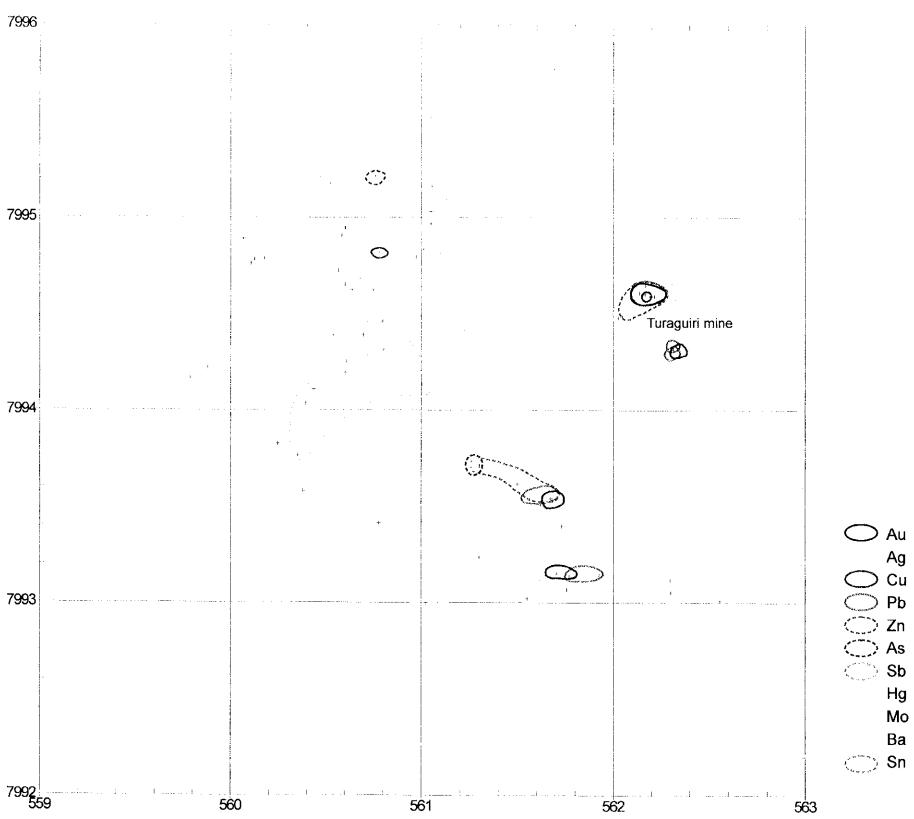


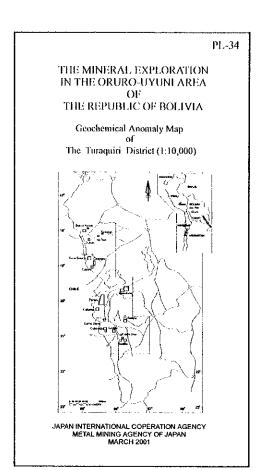


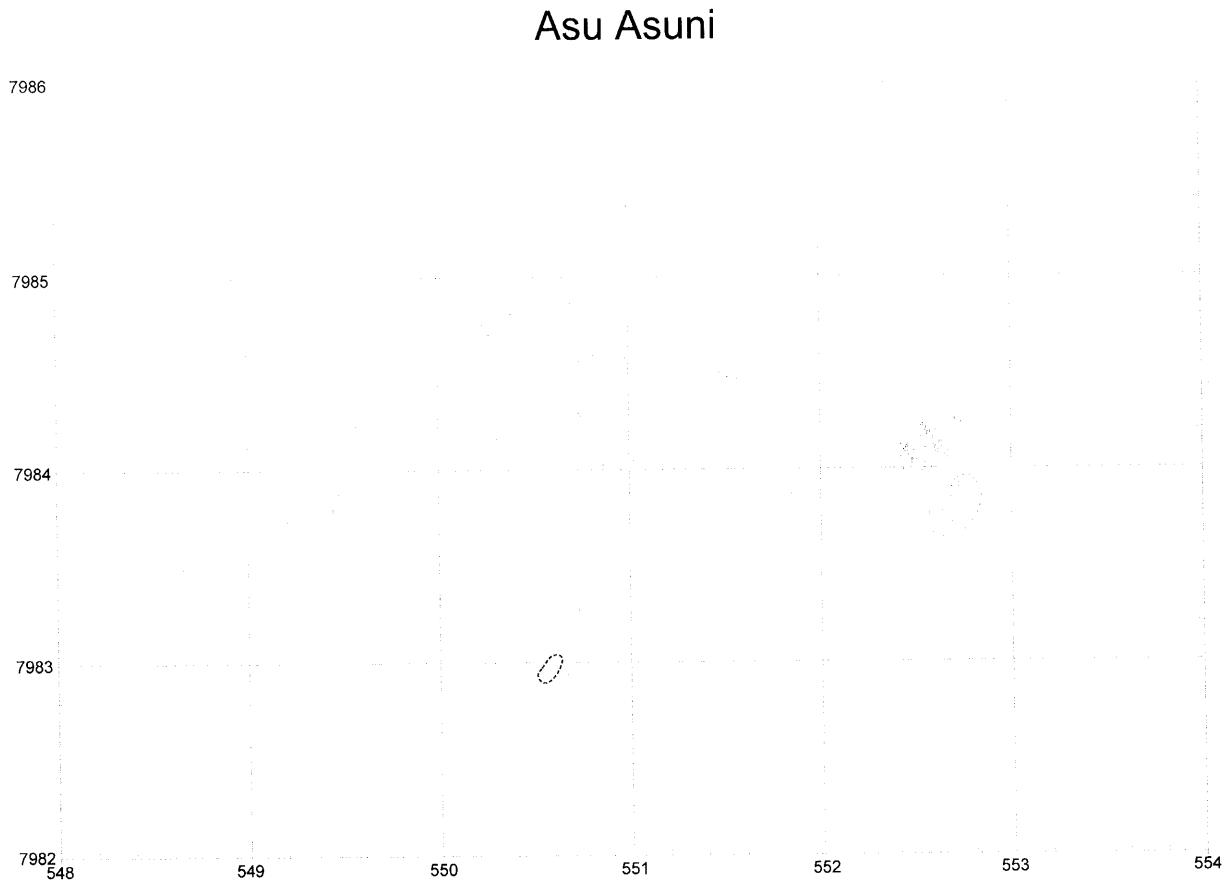
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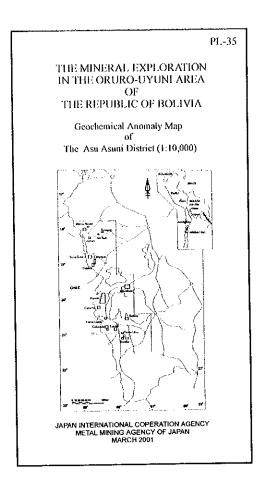
- vo. Phase II Survey
- No. Phase I Survey

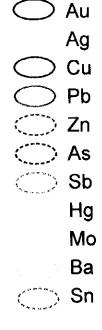
Turaquiri



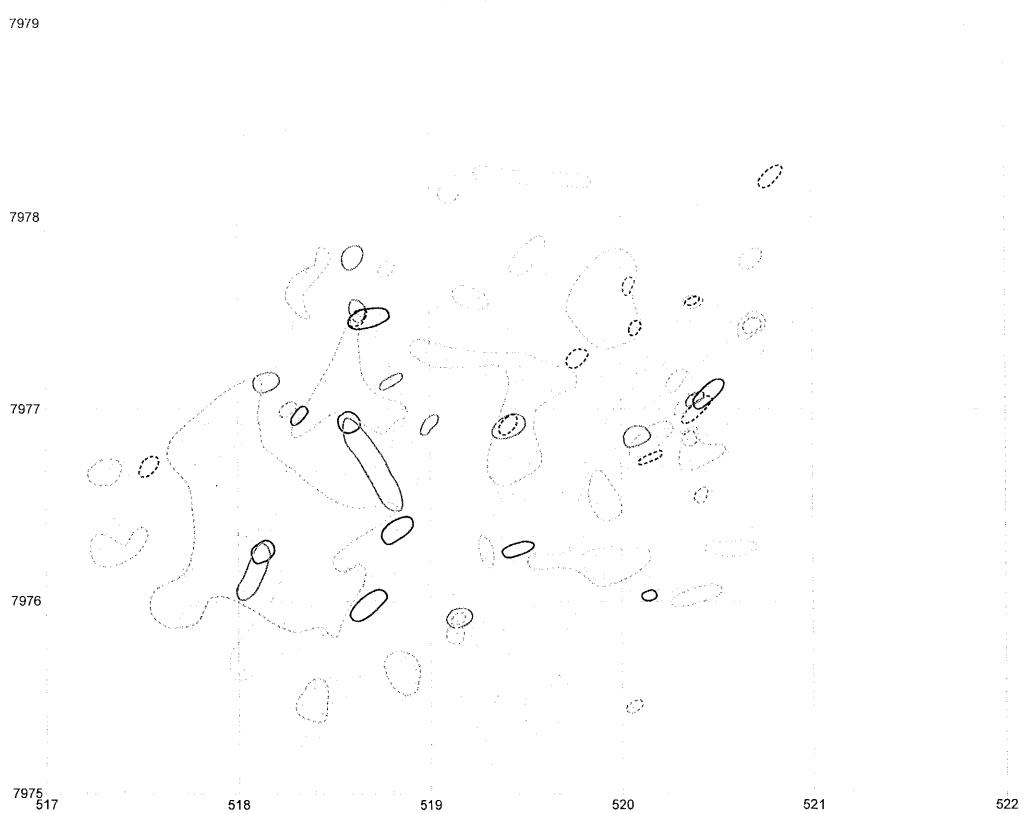




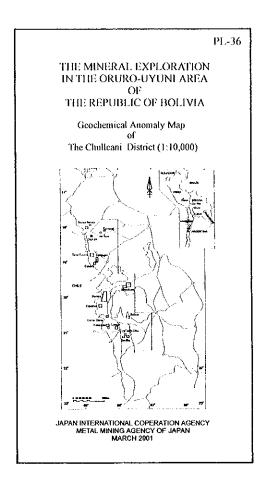


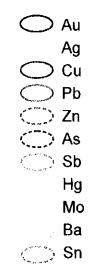


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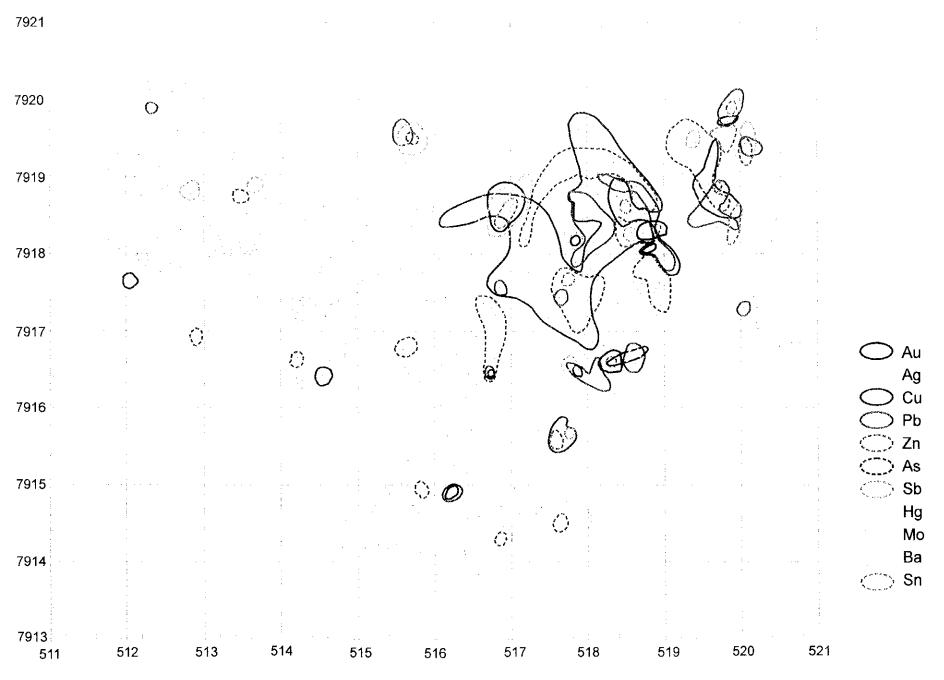


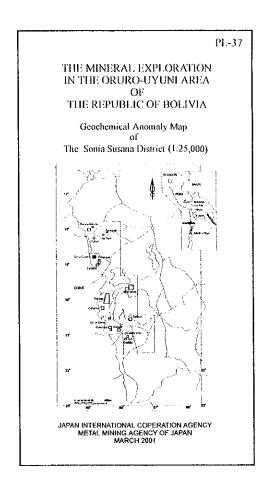
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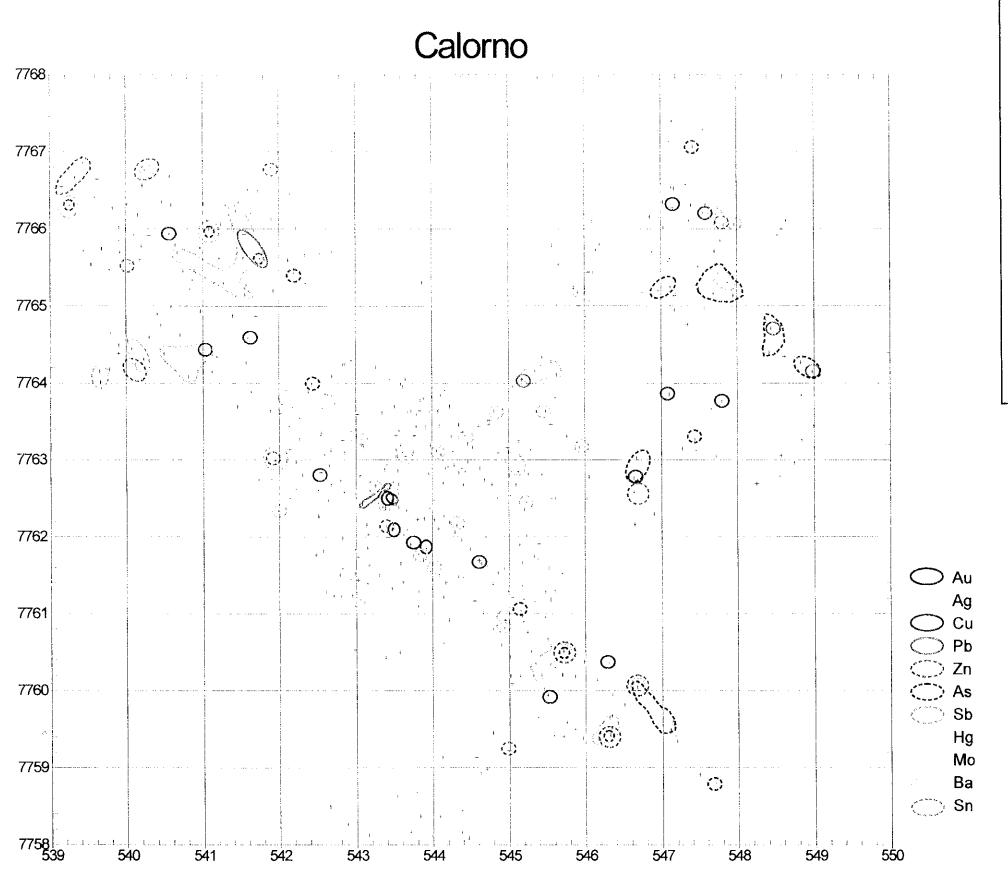


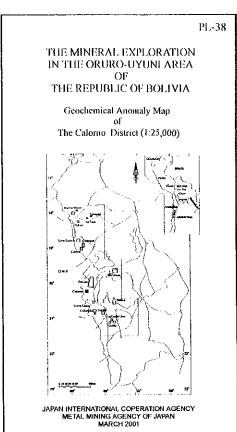


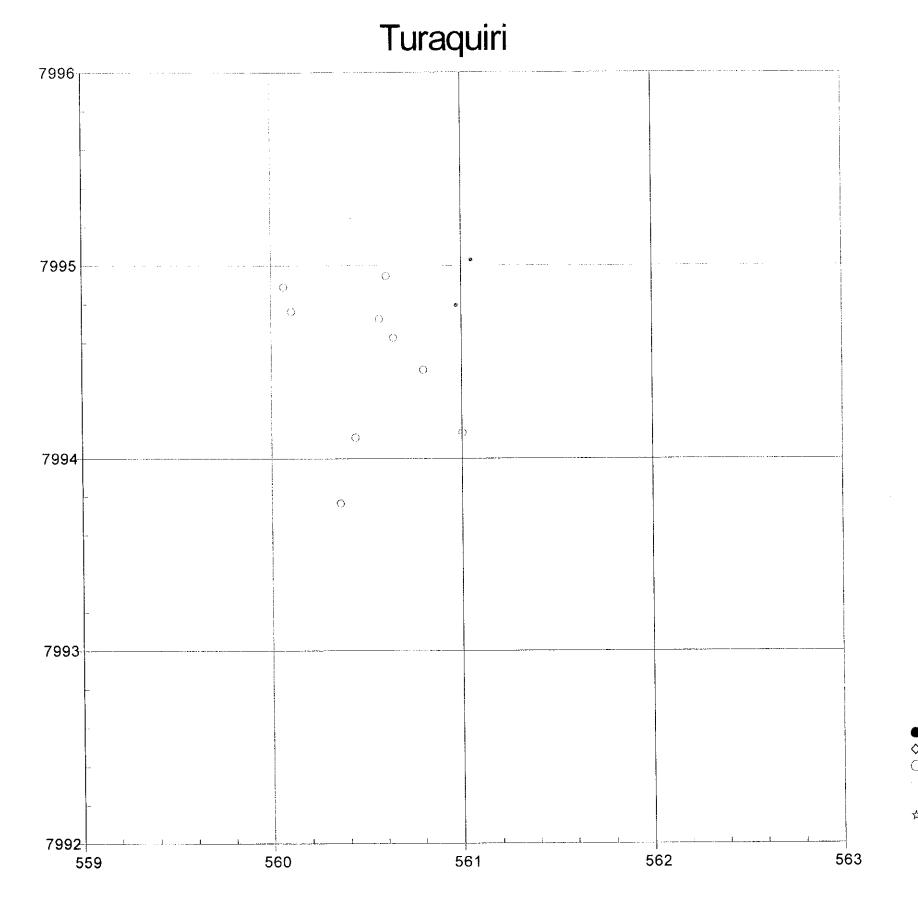
Sonia Susana

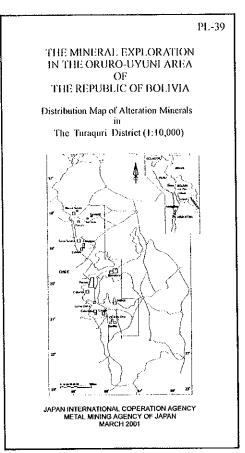




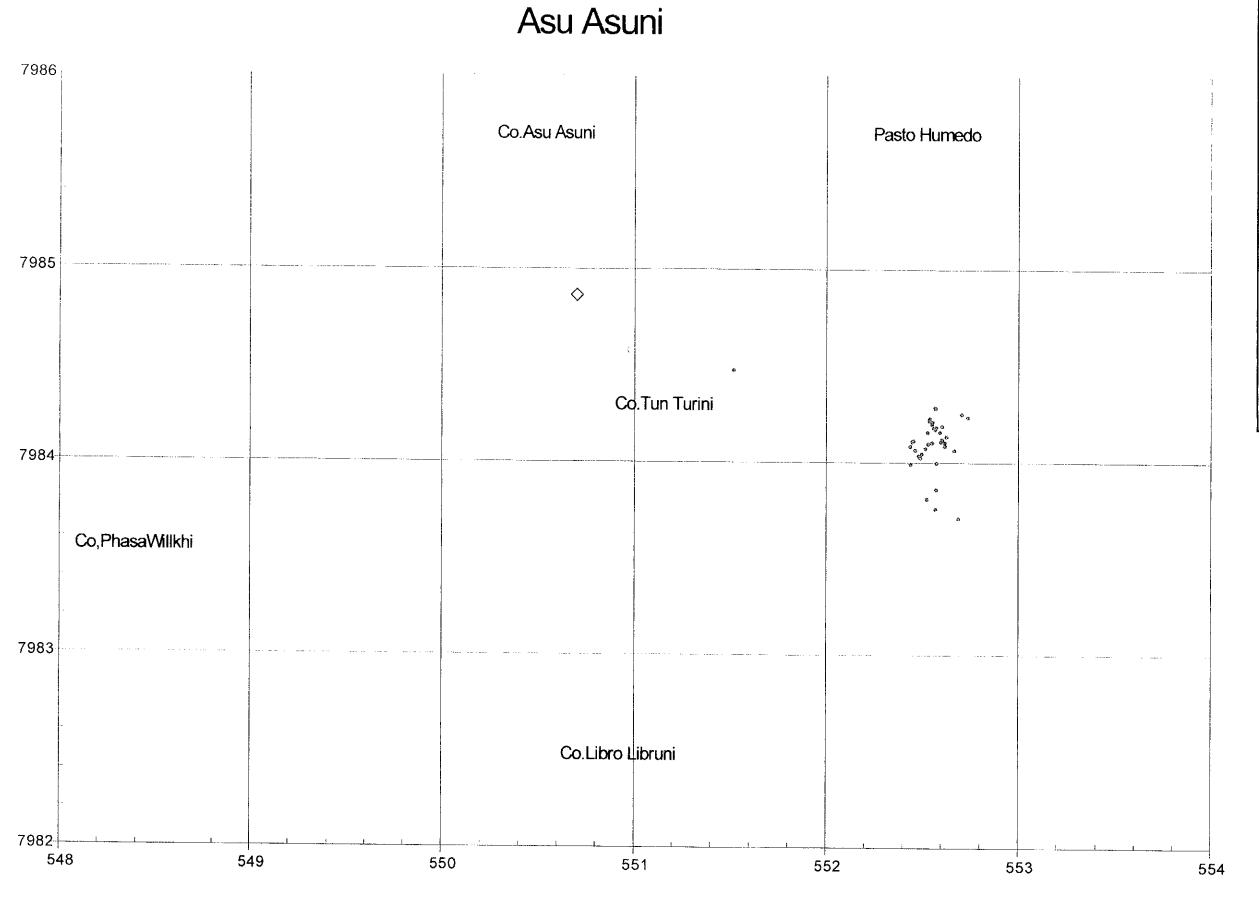


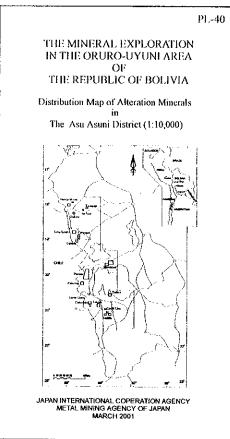




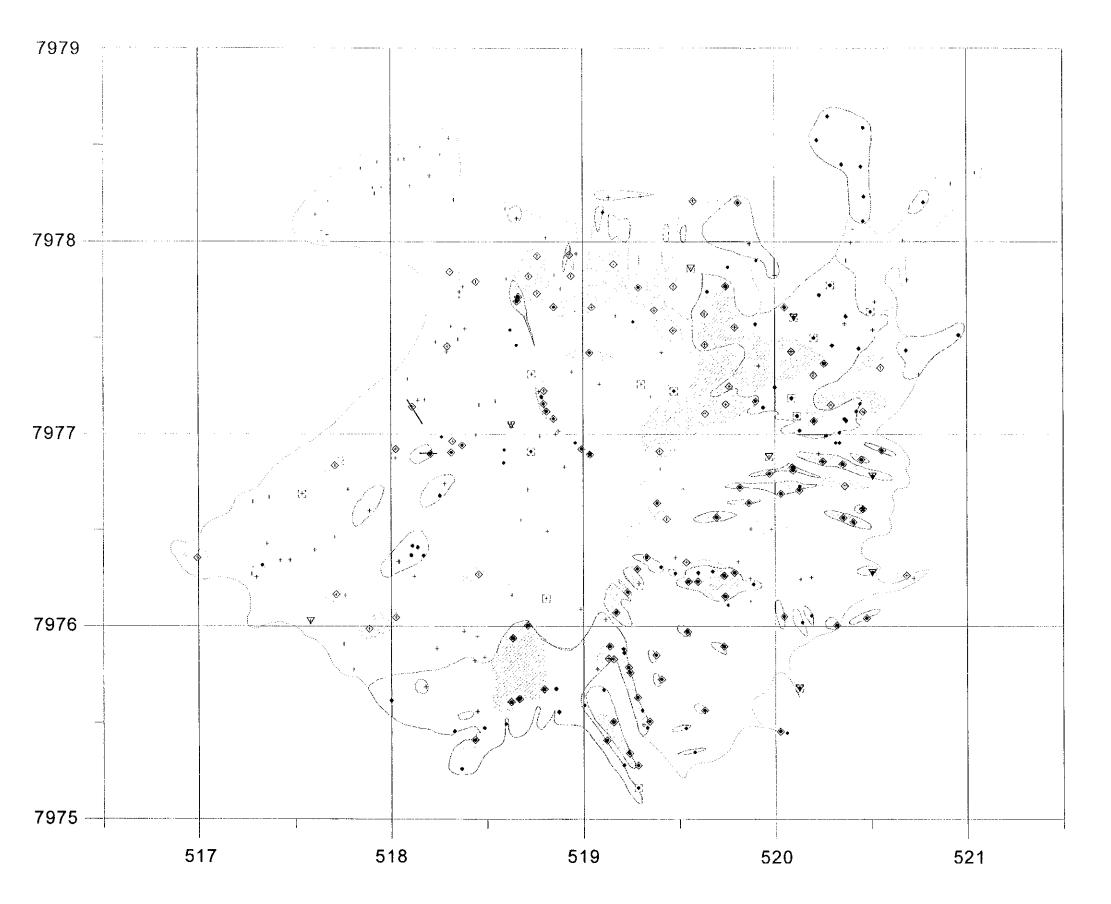


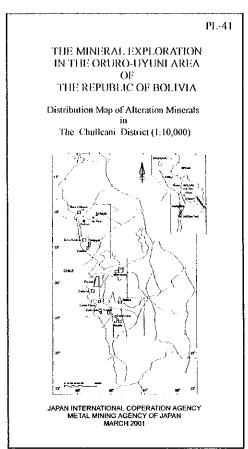
- Legend strong silicification sericite
- smectite
 - alunite kaolinite
- pyrophyllite

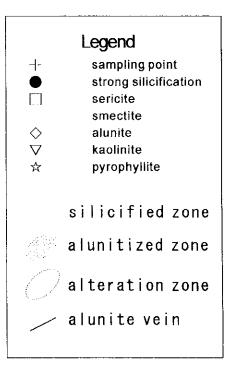


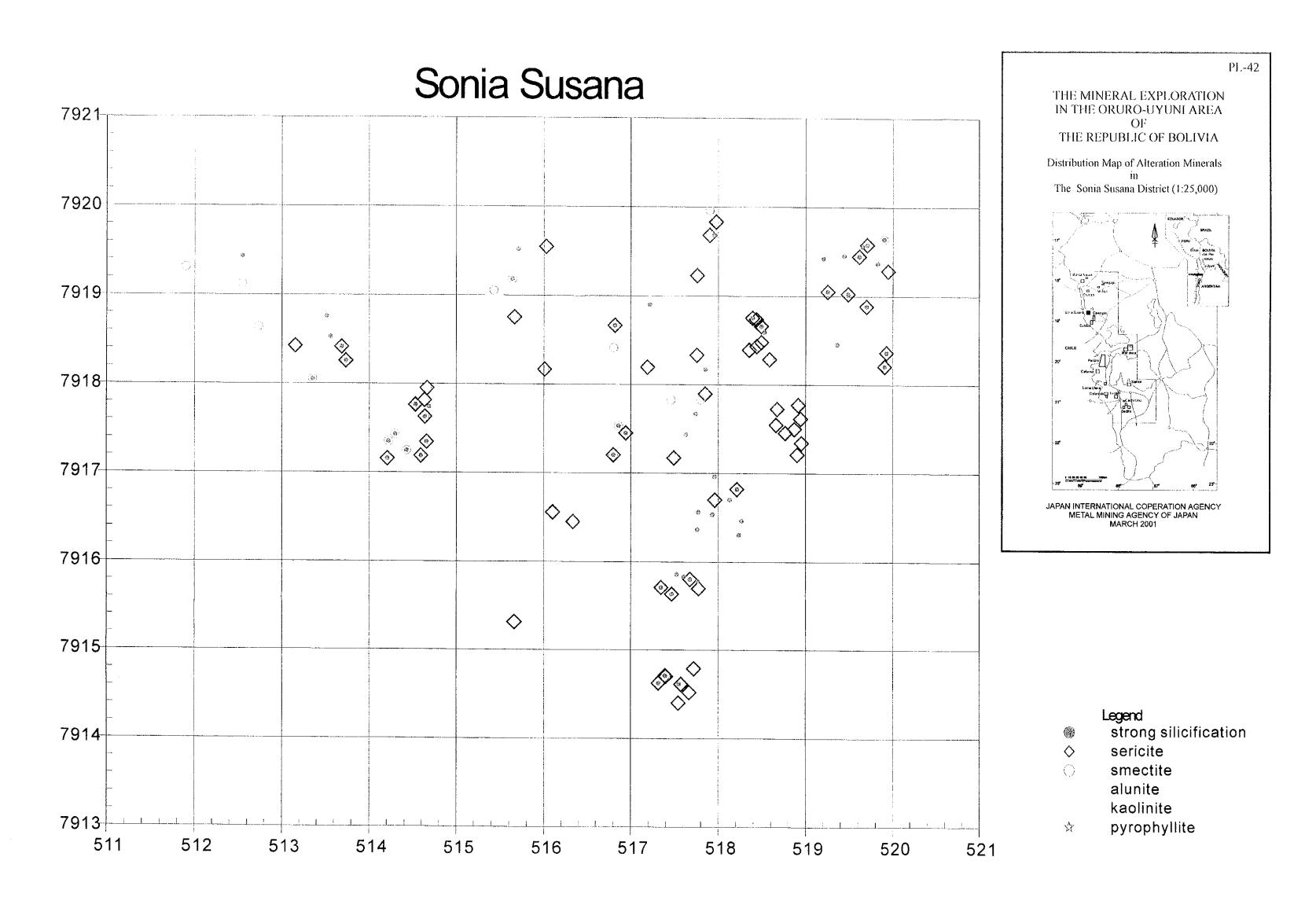


- Legend strong silicification sericite
- smectite alunite
 - kaolinite
- pyrophyllite

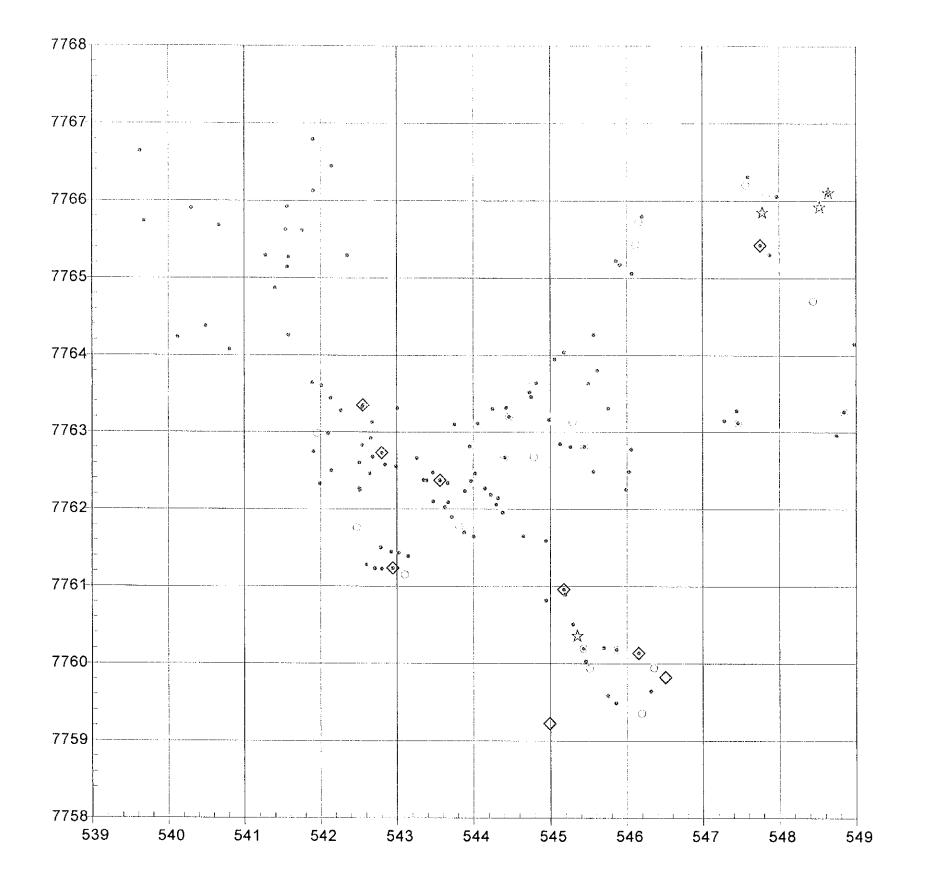


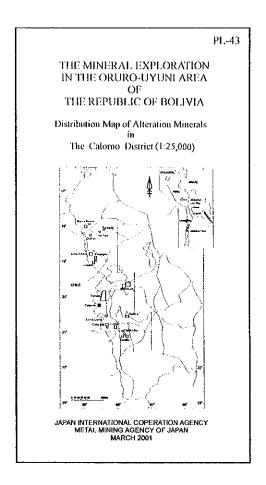






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- Legend strong silicification sericite smectite
- alunite kaolinite
- pyrophyllite