

Appendix 3: Results of statistic analysis of rock assay, Basic Statistic, Correlation matrix, EDA Analysis (Histogram, EDA and cumulative frequency of each element of rock samples), Dendrogram, Factor Loading

Statistics of rock geochemical data

Elements	Mean	Var.	S.D.	Min	Max	Mean+2SD	D.L.	B.D.L.(%)
Au (ppb)	5.3	0.591*	0.769*	2.5	176000.0	183.9	5	79.9
As (ppm)	2.2	0.641*	0.801*	0.5	10953.0	89.5	1	49.1
Sb (ppm)	0.5	0.038*	0.196*	0.5	147.0	1.3	1	95.6
Hg (ppm)	0.025	0.000*	0.000*	0.025	0.025	0.0	0.05	100.0
Ag (ppm)	0.5	0.012*	0.110*	0.5	22.0	0.9	1	98.1
Cu (ppm)	7.9	0.216*	0.464*	2.0	17000.0	67.0	1	0.0
Pb (ppm)	3.6	0.061*	0.246*	2.5	130.0	11.3	5	64.7
Zn (ppm)	19.5	0.120*	0.347*	4.0	650.0	96.5	1	0.0

Correlation coefficient of each sample of rock geochemical data

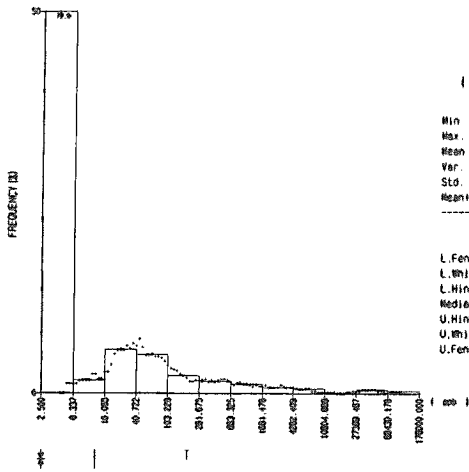
	Au	As	Sb	Ag	Cu	Pb	Zn
Au	1.000						
As	0.265	1.000					
Sb	0.092	0.355	1.000				
Ag	0.438	0.169	0.040	1.000			
Cu	0.241	0.536	0.372	0.140	1.000		
Pb	0.060	0.106	0.039	0.059	0.069	1.000	
Zn	-0.006	0.346	0.169	0.022	0.532	0.119	1.000

Results of the EDA analysis of rock geochemical data

Elements	L.Fence	L.Wisker	L.Hinge	Median	U.Hinge	U.Wisker	U.Fence
Au (ppb)	2.5	2.5	2.5	2.5	2.5	12.0	2.5
As (ppm)	0.0	0.5	0.5	1.0	9.0	14.0	687.3
Sb (ppm)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Hg (ppb)	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Ag (ppm)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Cu (ppm)	0.7	3.0	4.0	6.0	13.0	18.0	76.2
Pb (ppm)	0.9	2.5	2.5	2.5	5.0	6.0	14.1
Zn (ppm)	3.8	11.0	12.0	16.0	26.0	42.0	82.9

Results of factor analysis of rock geochemical data

	Factor1	Factor2	Factor3	Factor4	Communarity
Au	0.018	0.653	-0.159	-0.053	0.455
As	0.352	0.237	-0.561	-0.161	0.521
Sb	0.112	0.021	-0.590	-0.009	0.362
Ag	0.037	0.654	-0.007	-0.071	0.434
Cu	0.574	0.188	-0.478	-0.066	0.598
Pb	0.070	0.048	-0.030	-0.339	0.123
Zn	0.710	-0.046	-0.165	-0.162	0.560

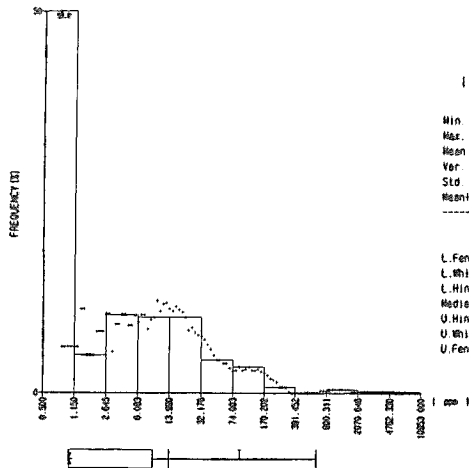


Au
(ppb)
(Statistics)

638
 Min. = 2.500
 Max. = 176000.000
 Mean = 5.337
 Var. = 0.591 (log10)
 Std. = 0.769 (log10)
 Mean±2sd= 183.929

(EDA)

L.Fence = 2.500
 L.Whisker= 2.500
 L.Hinge = 2.500
 Median = 2.500
 U.Hinge = 2.500
 U.Whisker= 12.000
 U.Fence = 2.500

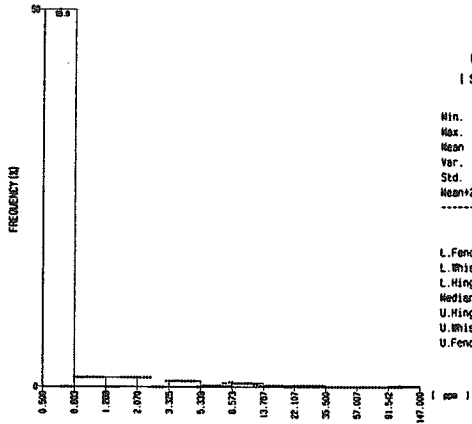
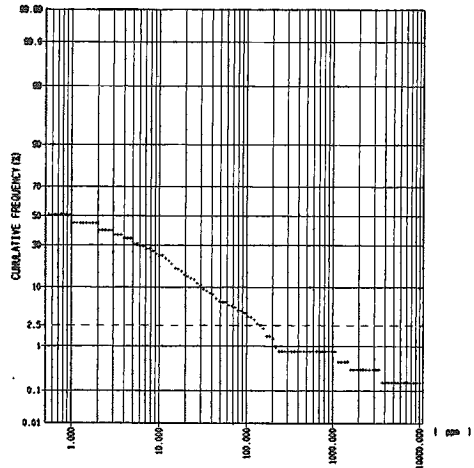
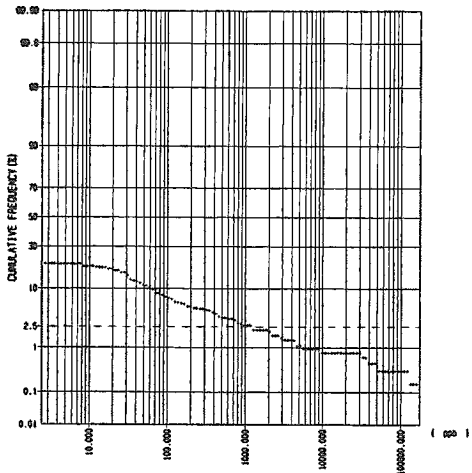


As
(ppm)
(Statistics)

638
 Min. = 0.500
 Max. = 10953.000
 Mean = 2.242
 Var. = 0.641 (log10)
 Std. = 0.801 (log10)
 Mean±2sd= 89.516

(EDA)

L.Fence = 0.007
 L.Whisker= 0.500
 L.Hinge = 0.500
 Median = 1.000
 U.Hinge = 9.000
 U.Whisker= 14.000
 U.Fence = 687.308

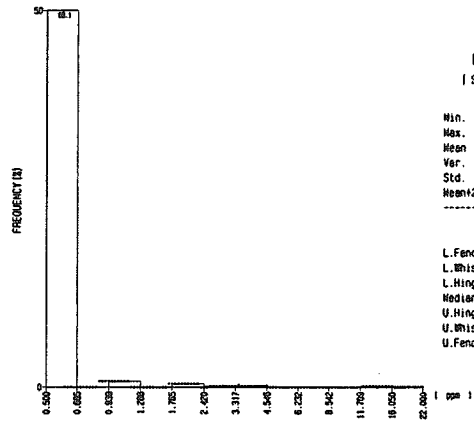


Sb
(ppm)
(Statistics)

638
 Min. = 0.500
 Max. = 147.000
 Mean = 0.542
 Var. = 0.038 (log10)
 Std. = 0.195 (log10)
 Mean±2sd= 1.334

(EDA)

L.Fence = 0.500
 L.Whisker= 0.500
 L.Hinge = 0.500
 Median = 0.500
 U.Hinge = 0.500
 U.Whisker= 0.500
 U.Fence = 0.500

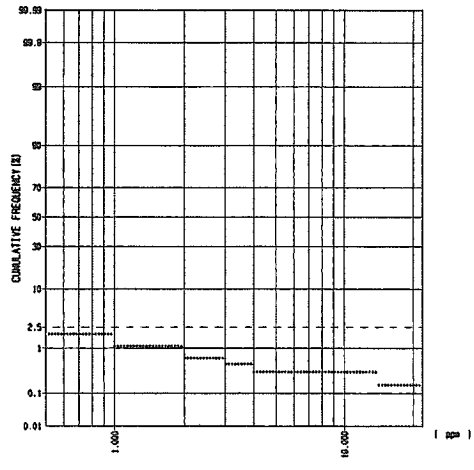
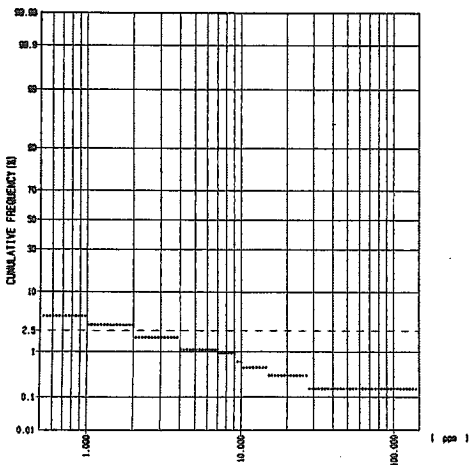


Ag
(ppm)
(Statistics)

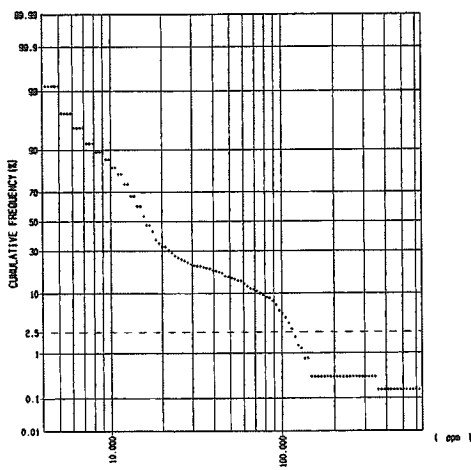
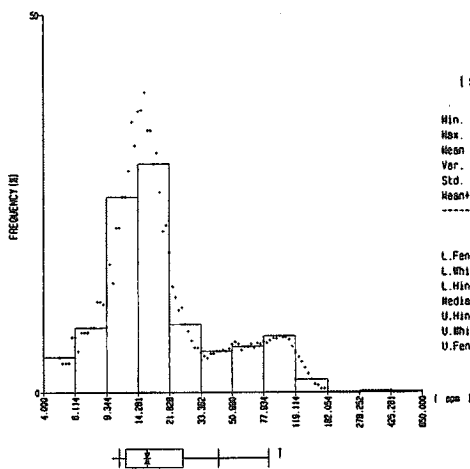
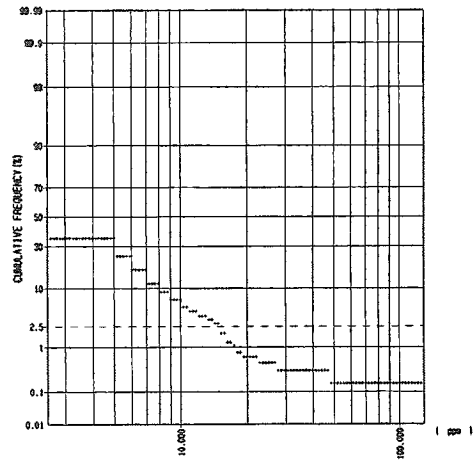
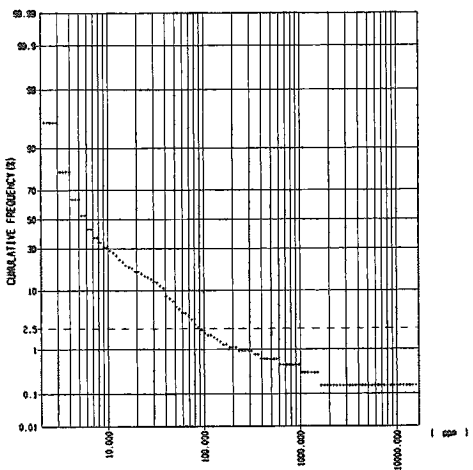
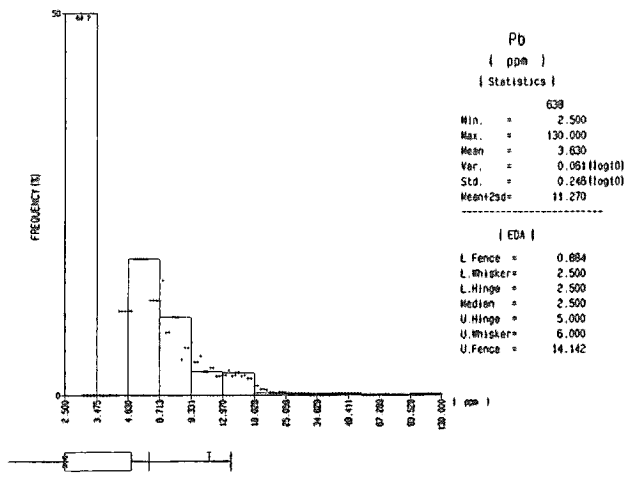
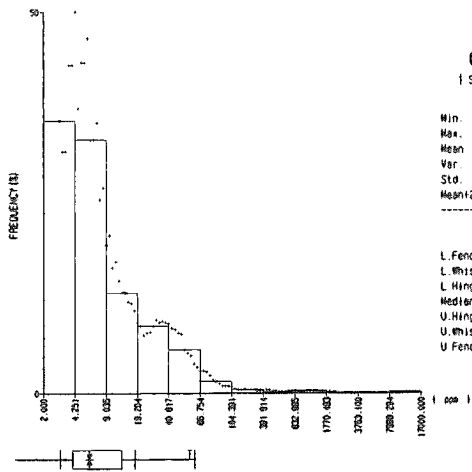
638
 Min. = 0.500
 Max. = 22.000
 Mean = 0.515
 Var. = 0.012 (log10)
 Std. = 0.110 (log10)
 Mean±2sd= 0.853

(EDA)

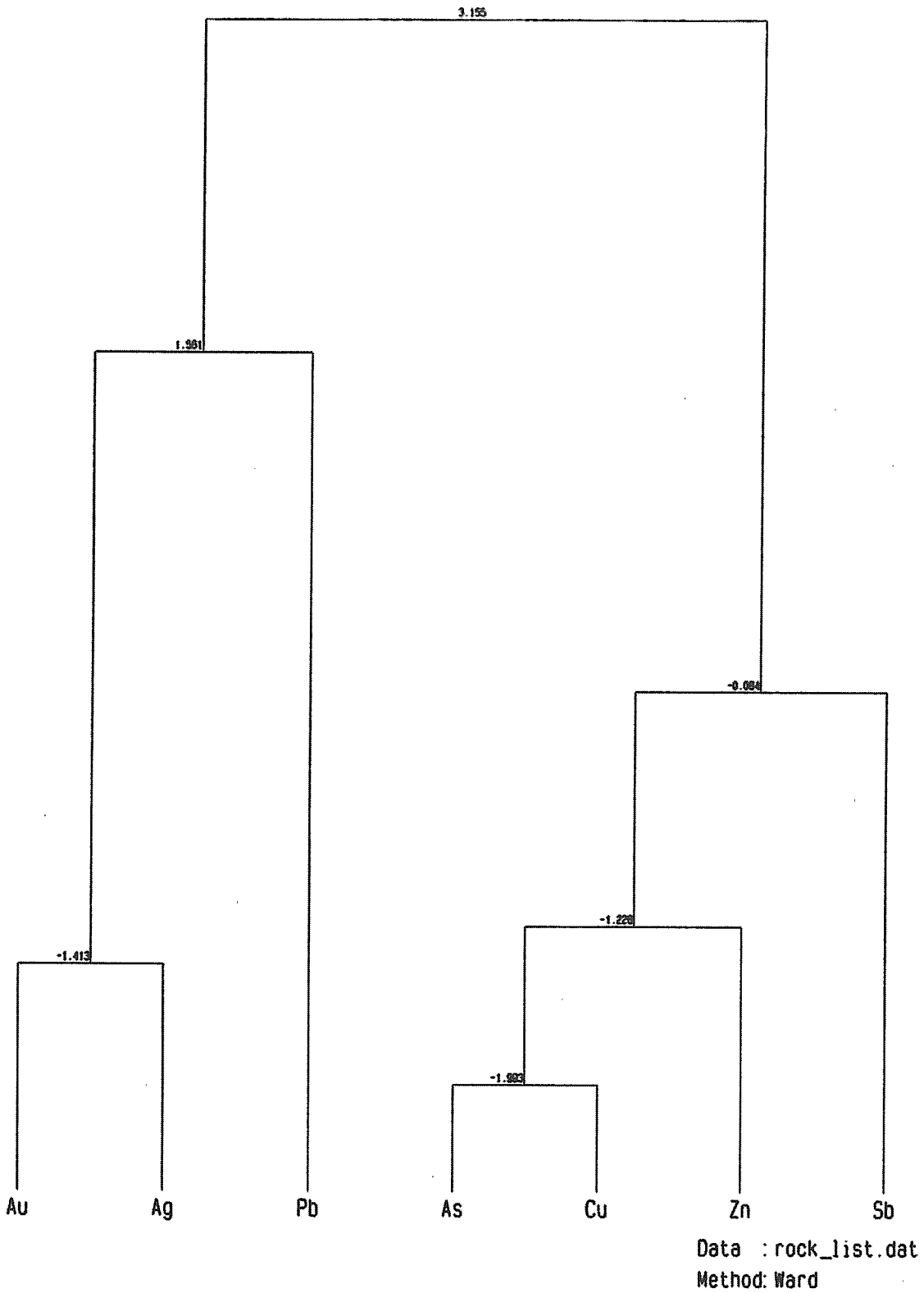
L.Fence = 0.500
 L.Whisker= 0.500
 L.Hinge = 0.500
 Median = 0.500
 U.Hinge = 0.500
 U.Whisker= 0.500
 U.Fence = 0.500



Histogram, EDA and cumulative frequency of each element of rock samples (1)



Histogram, EDA and cumulative frequency of each element of rock samples (2)
A-25



Cluster Dendrogram

Dendrogram of cluster analysis of rock samples

Appendix 4: Descriptions of thin sections, Descriptions of polished sections, Homogenization temperature and salinity of fluid inclusions, Results of X-ray diffractive analysis, Results of radiometric dating (K-Ar method)

Descriptions of thin sections (1)

Ser. No.	Sample No.	Zone	Rock Name	Geol. Unit	Texture	Igneous Minerals and Phenocrysts															Secondary and Metamorphic Minerals										Remarks												
						quartz	K-feldspar	plagioclase	muscovite	biotite	hornblende	augite	hypersthene	olivine	apatite	zircon	titania	allanite	tourmaline	garnet	ilmenite	magnetite	opaque minerals	quartz	plagioclase	actinolite	hornblende	muscovite	biotite	serpentine		chlorite	epidote	serpentine	calc	carbonate	glaucofanite	rutile	apatite	limonite	hematite	pyrite	opaque minerals
1	AR2015	A	mylonite (biotite granite)	pCC	porphyroclastic, mylonitic	○	●																																S-C mylonite				
2	AR2028	A	green schist (amphibolite)	pCCsjo	poikiloblastic																																						
3	AR2029	A	biotite-muscovite granite	pCCG	hyidiomorphic granular, poikilitic	○	○	○	●																												●						
4	AR2030	A	green schist	pCCsjo	lepidoblastic																																	○		(*) cordierite?			
5	AR2033	A	biotite granite	pCC	hyidiomorphic granular, poikilitic	○	○	○	●																																		
6	AR2048	E	biotite-hornblende granodiorite	pCC	inequigranular, poikilitic	●	●	○	●	●																														cataclastic texture			
7	AR2049	E	dolerite	dd	subophitic, doleritic					◎																																	
8	AR2060	E	amphibolite	dd	porphyroclastic																																						
9	BR2010	C	mylonite (leucogranite)	pCC	mylonitic, poikilitic	◎	○	●																																S-C mylonite			
10	BR2021	C	meta basalt	pCC	inequigranular			○																																original rock: clinopyroxene basalt?			
11	BR2042	C	biotite gneiss	pCCsjo	lepidoblastic																																				strong schistosity		
12	BR2046	C	green schist	pCCsjo	porphyroclastic, lepidoblastic																																			strong schistosity			
13	BR2064	E	mylonite (biotite granite)	pCCcb	hyidiomorphic granular, poikilitic	○	○	○	●																															S-C mylonite, mica fish			
14	BR2066	E	amphibolite	pCCag	inequigranular, poikilitic			○		●																																	
15	BR2090	E	biotite-muscovite schist	pCCag	inequigranular, poikilitic			◎																																	partly schistosity		
16	CR2001	B	biotite schist	pCCG	mosaic, lepidoclastic																																					cordierite	
17	CR2018	B	biotite granite (mylonite)	pCCG	poikilitic, mylonitic	○	●	●	●																																S-C mylonite		
18	CR2021	B	biotite granite (mylonite)	pCCsjo	porphyroclastic	○		●	●																																S-C mylonite		
19	CR2023	B	biotite schist	pCCsjo	mosaic, lepidoclastic																																						
20	DR2004	D	dolerite	dd	subophitic, doleritic																																						

◎: abundant, ○: common, ●: a little, ·: rare, () : pseudomorph

Descriptions of thin sections (2)

Ser. No.	Sample No.	Zone	Rock Name	Geol. Unit	Texture	Igneous Minerals and Phenocrysts																		Secondary and Metamorphic Minerals										Remarks							
						quartz	K-feldspar	plagioclase	microcline	hornblende	augite	hypersthene	olivine	apatite	zircon	quartz	plagioclase	actinolite	hornblende	muscovite	biotite	clinopyroxene	orthopyroxene	chromite	epidote	serpentine	talc	carbonate	titanite	rutile	apatite	limonite	hematite		pyrite	opaque minerals	others				
21	DR2013	D	hornfels (granitic rock)	pCCsjo	porphyroblastic																																				original rock: granitic rock
22	DR2023	D	phylite	pCCps	lepidoblastic																																			graphite, mica fish	
23	DR2024	D	diorite	pCCG	equigranular																																				
24	DR2032	E	sericite-actinolite schist	pCCag	inequigranular																																			greenschist facies	
25	DR2043	E	dolerite	dd	subophitic, doleritic																																				
26	DR2046	E	hornfels (quartz arenite)	pCCag	mosaic																																		original rock: quartz arenite		
27	DR2049	E	diorite	pCCG	porphyroclastic																																			partly poikilitic structure	
28	DR2050	D	meta basalt	pCCsjo	mosaic																																				
29	DR2051	E	granodiorite	pCCG	inequigranular																																				partly poikilitic structure
			green schist	pCCag	lepidoblastic																																				
30	DR2052	E	granodiorite	pCCG	inequigranular																																				

⊙: abundant, ○: common, ⊛: a little, **: rare, (*): pseudomorph

Descriptions of polished sections (1)

Ser. No.	Sample No.	Area	Rock Name	Geol. Unit	Description	Phenocrysts, crystals												Gangue Minerals											
						pyrite	goethite	hematite	limonite	magnetite	chalcopyrite	chalcocite	covellite	shalerite	galena	rutile/ anatase	quartz	zircon	phyllosilicates	titanite	malachite								
1	AQ2042	A	quartz	pCCsjo	py:subhedral,25-100 μ m ϕ , fractures with goethite and limonite	●	●		●										○										
2	AQ2044	A	quartz	pCCsjo	py:subhedral,20 μ m ϕ av, fractures with goethite and limonite	●	●		●																				
3	AQ2059	A	quartz	pCCsjo	py:euhedral-anhedral,200 μ m ϕ av, fractures with goethite, hematite and limonite	○	●	●	●														○						
4	AQ2063	A	quartz	pCCsjo	py:subhedral-anhedral,25 μ m ϕ av, fractures with limonite	○	●	●	●														○						
5	AQ2066	A	quartz	pCCsjo	py:subhedral-anhedral,20-250 μ m ϕ , cp:anhedral,10-20 μ m ϕ , mal:anhedral,20-50 μ m ϕ , fractures with limonite	●			●														○					●	
6	AQ2067	A	quartz	pCCsjo	py:subhedral-anhedral,20-40 μ m ϕ , fractures with goethite and limonite	●	●		●														○						
7	AQ2124	E	quartz	pCCag	py:subhedral-anhedral,50 μ m ϕ av, fractures with limonite	●			●														○						
8	AQ2125	E	quartz	pCCag	py:subhedral-anhedral,10-30 μ m ϕ , fractures with goethite and limonite	●	●		●														○						
9	BQ2014	C	quartz	pCCps	go:anhedral,av:25 × 500 μ m ϕ , fractures with goethite and limonite																								
10	BQ2041	C	quartz	pCCsjo	py:subhedral-anhedral,10-30 μ m ϕ , fractures with limonite	●			●														○						

○ : abundant, ○ : common, ● : a little, * : rare

Descriptions of polished sections (2)

Ser. No.	Sample No.	Area	Rock Name	Geol. Unit	Description	Phenocrysts, crystals												Gangue Minerals									
						pyrite	goethite	hematite	limonite	magnetite	chalcocopyrite	chalcocite	covellite	shalerite	galena	rutile/anatase	quartz	zircon	phyllosilicates	titanite	malachite						
11	BQ2056	C	quartz	pCCps	py:subhedral-anhedral, 20-50 μm φ, go:subhedral-anhedral, 650 μm φ av, fractures with limonite	.	.		●											◎							
12	BQ2058	C	quartz	pCCps	py:subhedral-anhedral, 10-30 μm φ, fractures with goethite and limonite	.	●		●												◎						
13	BQ2091	E	quartz	pCCag	py:subhedral-anhedral, av:50 × 100 μm, fractures with goethite and limonite	●			●												◎						
14	BQ2107	E	quartz	pCCag	py:subhedral, av:100 × 250 μm, fractures with limonite	.			●												◎						
15	BQ2120	E	quartz	pCCag	py:subhedral, 50 μm φ av, fractures with limonite	.			●												◎						
16	BQ2128	E	quartz	pCCag	py:subhedral-anhedral, 30-100 μm φ, fractures with goethite and limonite	●			●												◎						
17	CQ2005	B	quartz	pCCG	py:subhedral, av:25 × 40 μm, fractures with limonite	.			.												◎						
18	CQ2029	B	quartz	pCCsjo	py:subhedral-anhedral, 25 μm φ av, fractures with goethite and limonite	.	●		●												◎						
19	CQ2063	B	quartz	pCCsjo	py:subhedral, 25 μm φ av, fractures with limonite	.			.												◎						
20	CQ2084	B	quartz	pCCG	py:subhedral, 100-150 μm φ, go:subhedral-anhedral, 250 μm φ av	.	.		.												◎						

◎: abundant, ○: common, ●: a little, •: rare

Descriptions of polished sections (3)

Ser. No.	Sample No.	Area	Rock Name	Geol. Unit	Description	Phenocrysts, crystals										Gangue Minerals												
						pyrite	goethite	hematite	limonite	magnetite	chalcopyrite	chalcoite	covellite	shalerite	galena	rutile/anatase	quartz	zircon	phyllosilicates	titanite	malachite							
21	DQ2042	D	quartz	pCCsjo	py:subhedral, 50 μ m φ av, go:subhedral-anhedral, 100 μ m φ av, margins of goethite consist of limonite	•	•		•											◎								
22	DR2046	E	hornfels (quartz arenite)	pCCag	py:subhedral-anhedral, 50-500 μ m φ, margins of pyrite consist of goethite and limonite, go:subhedral (partly colloform texture), 500 μ m φ -1mm φ, fractures with malachite and limonite	•	○		○																		•	
23	DQ2052	D	quartz	pCCsjo	py:subhedral, 20-500 μ m φ, go:subhedral-anhedral (partly colloform texture), 500 μ m φ av, fractures with malachite and limonite	•	○		○																		●	
24	DQ2058	D	quartz	pCCsjo	py:subhedral-anhedral, 25-250 μ m φ, fractures with goethite and limonite	•	●		●																			
25	DQ2059	D	quartz	pCCsjo	py:subhedral-anhedral, 25 μ m φ av, fractures with limonite	•			●																			
26	DQ2061	D	quartz	pCCsjo	py:subhedral-anhedral, 10-30 μ m φ, fractures with limonite	•																						
27	DQ2093	E	quartz	pCCag	py:subhedral-anhedral, 10-30 μ m φ, fractures with limonite	•																						
28	DQ2133	E	quartz	pCCag	py:subhedral-anhedral, 10-50 μ m φ, ep:anhedral, av:30 × 50 μ m, fractures with limonite	•																						

◎: abundant, ○: common, ●: a little, •: rare

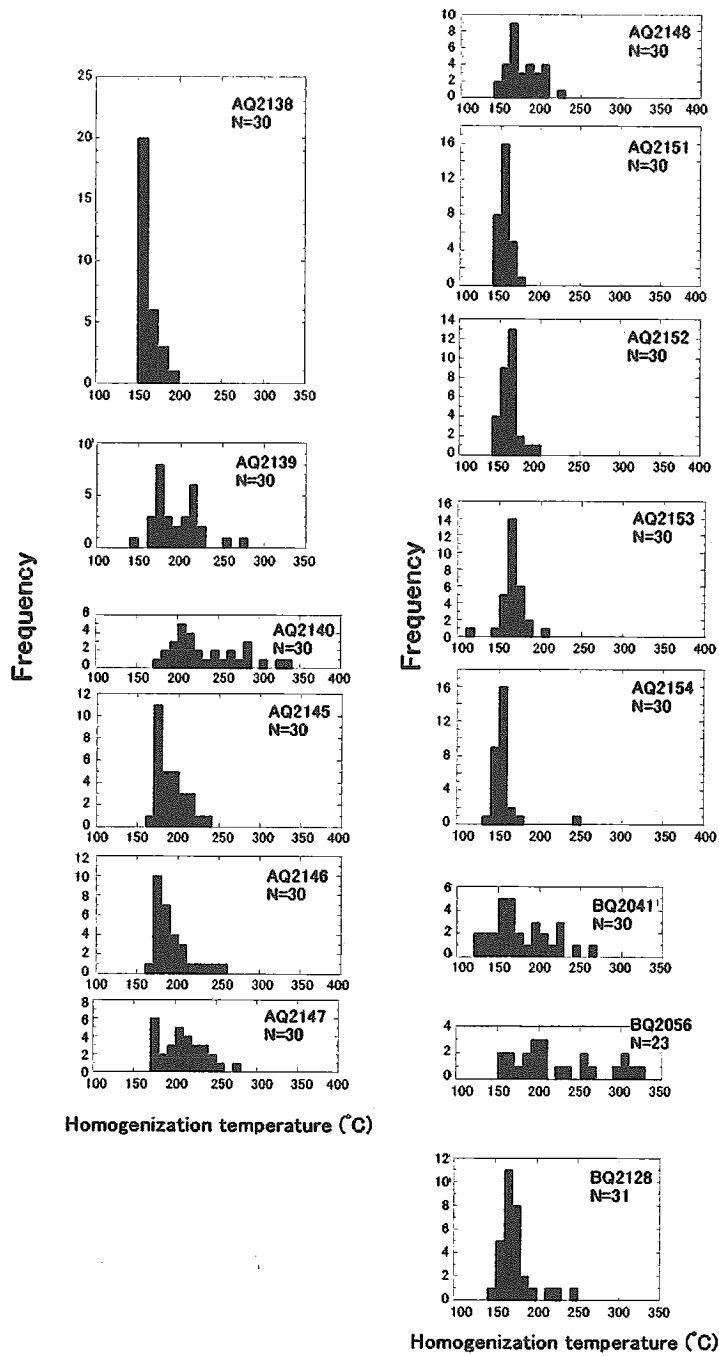
Homogenization temperature and salinity of fluid inclusions

Ser. No.	Sample No.	Zone	Mineral Showing	Rock Name	type of quartz*			Geol. Unit	Temperature (°C)			Salinity (%) NaCl eq.
					A	B	C		Number	Range	Average	
1	AQ2044	A	A-a	quartz vein			X	pCCsjo	—	—	—	—
2	AQ2138	A	A-a	quartz vein			X	pCCsjo	30	154.3 - 193.4	163.0	19.4
3	AQ2139	A	A-a	quartz vein			X	pCCsjo	30	145.8 - 278.7	195.8	16.3
4	AQ2140	A	A-a	quartz vein			X	pCCsjo	30	177.5 - 331.0	235.7	9.7
5	AQ2145	A	A-a	quartz vein		X		pCCsjo	30	165.9 - 238.5	190.1	30.8
6	AQ2146	A	A-a	quartz vein		X		pCCsjo	30	167.7 - 258.2	192.8	8.4
7	AQ2147	A	A-a	quartz vein		X		pCCsjo	30	172.5 - 273.8	210.1	7.7
8	AQ2148	A	A-a	quartz vein			X	pCCsjo	30	146.6 - 229.8	175.7	32.9
9	AQ2150	A	A-b	quartz vein			X	pCCsjo	—	—	—	—
10	AQ2151	A	A-b	quartz vein		X		pCCsjo	30	148.2 - 170.2	155.7	5.0
11	AQ2152	A	A-b	quartz vein		X		pCCsjo	30	145.2 - 190.7	162.0	9.5
12	AQ2153	A	A-b	quartz vein		X		pCCsjo	30	115.7 - 201.9	164.6	10.5
13	AQ2154	A	A-b	quartz vein			X	pCCsjo	30	139.9 - 246.7	156.1	10.2
14	BQ2041	C	C-c	quartz vein			X	pCCsjo	30	125.4 - 260.3	177.2	29.4
15	BQ2056	C	C-a	quartz vein		X		pCCps	23	159.1 - 322.1	224.8	7.1
16	BQ2091	E	E-a	quartz vein			X	pCCag	30	135.1 - 341.4	172.2	30.3
17	BQ2107	E	E-b	quartz vein		X		pCCag	30	157.7 - 291.1	231.5	0.5
18	BQ2120	E	E-b	quartz vein			X	pCCag	30	155.6 - 335.2	249.9	>23
19	BQ2128	E	E-b	quartz vein		X		pCCag	31	151.2 - 243.0	173.0	30.1
20	BQ2130	E	E-b	quartz vein		X		pCCag	30	152.3 - 212.3	170.8	30.3
21	CQ2005	B	B-d	quartz vein		X		pCCG	20	162.7 - 278.1	183.3	21.5
22	CQ2019	B	B-b	quartz vein			X	pCCsjo	30	172.3 - 295.4	209.2	8.1
23	CQ2029	B	B-a	quartz vein			X	pCCsjo	—	—	—	—
24	CQ2063	B	B-a	quartz vein			X	pCCsjo	30	158.7 - 215.1	171.6	2.6
25	CQ2084	B	B-a	quartz vein		X		pCCG	20	258.4 - 391.5	307.6	19.0
26	CQ2087	B	B-c	quartz vein			X	pCCG	20	125.1 - 310.5	233.1	13.1
27	DQ2040	D	D-b	quartz vein	X			pCCsjo	30	162.1 - 261.5	191.6	18.7
28	DQ2042	D	D-a	quartz vein		X		pCCsjo	30	145.2 - 342.2	212.5	6.9
29	DQ2047	D	D-a	quartz vein		X		pCCsjo	30	154.0 - 261.8	187.4	19.6
30	DQ2052	D	D-a	quartz vein			X	pCCsjo	—	—	—	—
31	DQ2059	D	D-a	quartz vein		X		pCCsjo	30	151.3 - 285.4	200.8	14.5
32	DQ2061	D	D-a	quartz vein		X		pCCsjo	30	149.6 - 225.5	181.8	19.1
33	DQ2093	E	E-e	quartz vein		X		pCCag	31	155.4 - 268.5	193.4	2.4
34	DQ2132	E	E-f	quartz vein	X			pCCag	30	157.5 - 247.8	192.4	9.0

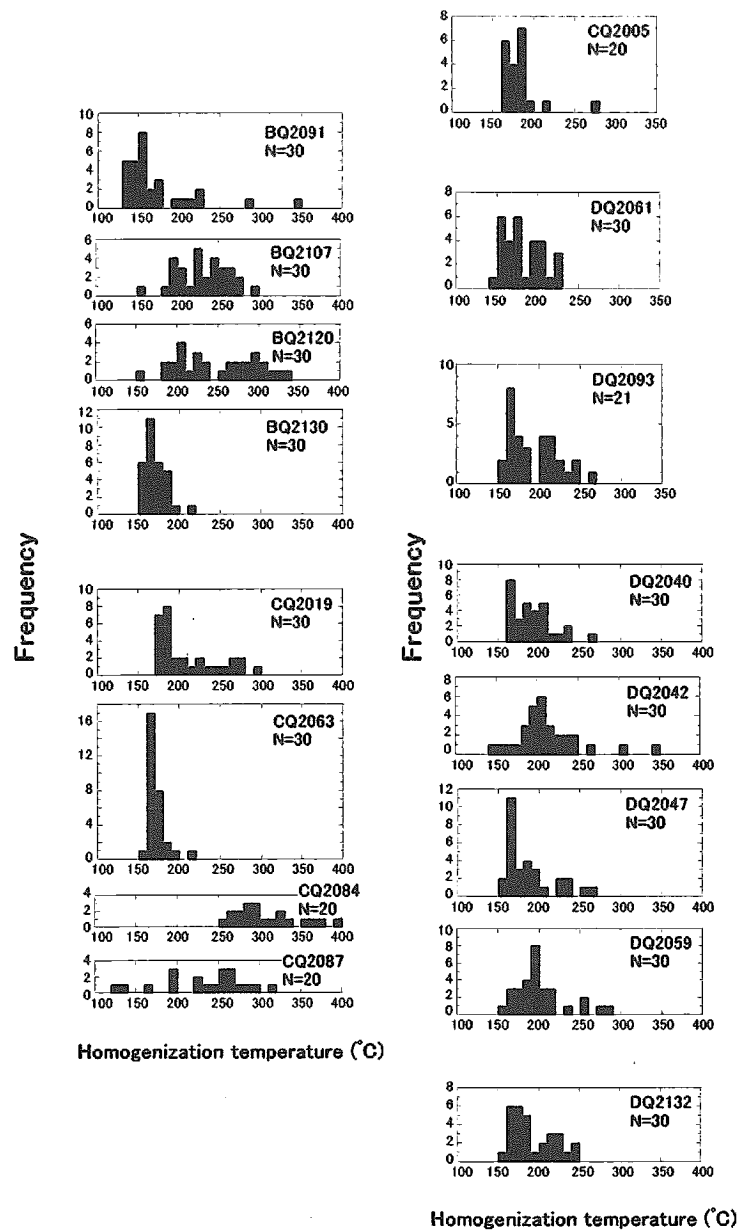
*) A : Transparent Quartz, B: Milky Half-transparent quartz, C: Black Non-transparent quartz

Temperatures and Salinities of Fluid Inclusions

Type of fluid inclusions	Sample No.	Th: L+V			Tm: Ice			Salinity (%) (NaCl eq.)
		Num.	Range	Ave.	Num.	Range	Ave.	
H ₂ O	AQ2138	30	154.3 - 193.4	163.0	10	-17.8 - -14.1	-15.9	19.4
H ₂ O	AQ2139	30	145.8 - 278.7	195.8	11	-16.5 - -1.2	-12.4	16.3
H ₂ O	AQ2140	30	177.5 - 331.0	235.7	10	-7.0 - -5.5	-6.4	9.7
H ₂ O	AQ2146	30	167.7 - 258.2	192.8	10	-9.0 - -0.9	-5.4	8.4
H ₂ O	AQ2147	30	172.5 - 273.8	210.1	10	-7.4 - -4.2	-4.9	7.7
H ₂ O	AQ2151	30	148.2 - 170.2	155.7	10	-4.0 - -2.1	-3.0	5.0
H ₂ O	AQ2152	30	145.2 - 190.7	162.0	10	-8.6 - -4.4	-6.2	9.5
H ₂ O	AQ2153	30	115.7 - 201.9	164.6	10	-7.1 - -6.8	-7.0	10.5
H ₂ O	AQ2154	30	139.9 - 246.7	156.1	10	-8.5 - -5.1	-6.8	10.2
H ₂ O	BQ2107	30	157.7 - 291.1	231.5	10	-0.5 - -0.2	-0.3	0.5
H ₂ O	BQ2120	30	155.6 - 335.2	249.9	10	-38.8 - -36.5	-37.8	>23
H ₂ O	CQ2019	30	172.3 - 295.4	209.2	10	-6.2 - -3.7	-5.2	8.1
H ₂ O	CQ2063	30	158.7 - 215.1	171.6	10	-2.1 - -0.9	-1.5	2.6
H ₂ O	DQ2040	30	162.1 - 261.5	191.6	10	-16.4 - -13.5	-15.1	18.7
H ₂ O	DQ2042	30	145.2 - 342.2	212.5	10	-5.7 - -2.1	-4.3	6.9
H ₂ O	DQ2047	30	154.0 - 261.8	187.4	10	-22.5 - -9.6	-16.3	19.6
H ₂ O	DQ2059	30	151.3 - 285.4	200.8	10	-11.2 - -10.1	-10.5	14.5
H ₂ O	DQ2061	30	149.6 - 225.5	181.8	10	-19.6 - -11.0	-15.6	19.1
H ₂ O	DQ2093	31	155.4 - 268.5	193.4	11	-3.3 - -0.3	-1.4	2.4
H ₂ O	DQ2132	30	157.5 - 247.8	192.4	10	-6.3 - -5.4	-5.8	9.0
		Th: L+V			Tm: Halite			
		Num.	Range	Ave.	Num.	Range	Ave.	
H ₂ O-Halite	AQ2145	30	165.9 - 238.5	190.1	10	165.1 - 191.4	178.7	30.8
H ₂ O-Halite	AQ2148	30	146.6 - 229.8	175.7	10	201.7 - 243.8	221.6	32.9
H ₂ O-Halite	BQ2041	30	125.4 - 260.3	177.2	10	135.1 - 148.3	142.9	29.4
H ₂ O-Halite	BQ2091	30	135.1 - 341.4	172.2	10	161.3 - 166.5	163.6	30.3
H ₂ O-Halite	BQ2128	31	151.2 - 243.0	173.0	10	155.1 - 168.2	161.7	30.1
H ₂ O-Halite	BQ2130	30	152.3 - 212.3	170.8	10	159.0 - 167.9	163.9	30.3
		Th: CO ₂ +H ₂ O			Tm: CO ₂ Clathrate			
		Num.	Range	Ave.	Num.	Range	Ave.	
H ₂ O-CO ₂	BQ2056	23	159.1 - 322.1	224.8	5	8.5 - 21.1	14.2	7.1
H ₂ O-CO ₂	CQ2005	20	162.7 - 278.1	183.3	5	5.2 - 15.0	9.2	21.5
H ₂ O-CO ₂	CQ2084	20	258.4 - 391.5	307.6	5	6.3 - 10.8	8.2	19.0
H ₂ O-CO ₂	CQ2087	20	125.1 - 310.5	233.1	5	15.2 - 28.5	19.4	13.1
(H ₂ O-)CO ₂	CQ2029				5	-0.1 - -13.1	6.9	
					Tm: Dryice			
					Num.	Range	Ave.	
					5	-58.7 - -58.9	-58.8	7.1
					5	-58.7 - -58.8	-58.8	21.5
					5	-59.8 - -59.6	-59.7	19.0
					5	-60.1 - -60.0	-61.1	13.1
					5	-59.4 - -59.6	-59.5	



Histogram of fluid inclusions (1)



Histogram of fluid inclusions (2)

Results of X-ray diffractive analysis

Ser. No.	Sample No.	Zone	Rock Name	Geol. Unit	Detected Minerals																									
					quartz	plagioclase	K-feldspar	albite	muscovite	chlorite	kaolinite	talc	chlorite/smectite	anthophyllite	paragonite	calcite	pyrite	hematite	goethite	rutile	epidote									
1	AQ2042	A	quartz vein	pCCsjo	⊙																									
2	AQ2044	A	quartz vein	pCCsjo	⊙																									
3	AQ2059	A	quartz vein	pCCsjo	⊙																									
4	AQ2063	A	quartz vein	pCCsjo	⊙																									
5	AQ2067	A	quartz vein	pCCsjo	⊙																									
6	AQ2124	E	quartz vein	pCCag	⊙																									
7	BR2010	C	granodiorite	pCC	⊙				⊙																					
8	BR2014	C	green schist	pCCps	⊙																									
9	BR2021	C	granodiorite	pCC	⊙				⊙																					
10	BR2057	E	green schist	pCCag	⊙				▲	△																				○
11	BR2062	E	green schist	pCCag	⊙																									
12	BR2090	E	mica schist	pCCag	⊙				⊙	△																				
13	BR2092	C	silicified rock	pCCps	⊙																									
14	CR2001	B	granodiorite	pCCG	⊙				△	△																				
15	CR2018	B	green schist	pCCsjo	⊙				○	△																				
16	CR2021	B	granodiorite	pCCG	⊙				⊙	⊙																				
17	CR2023	B	mica schist	pCCsjo	⊙				○	⊙																				
18	DR2002	D	green schist	pCCsjo									⊙																	
19	DR2008	D	meta rhyolite	pCCsjo	⊙																									
20	DR2014	D	meta sandstone	pCCsjo	⊙				⊙	⊙																				
21	DR2033	E	meta basalt	pCCag	⊙				○	△																				
22	DR2046	E	hornfels	pCCag	⊙																									
23	DR2050	D	meta basalt	pCCsjo	⊙					⊙																				

⊙: >1000 cps, ○: 500-1000 cps, △: 200-500 cps, ▲: 100-200 cps, tr: <100 cps

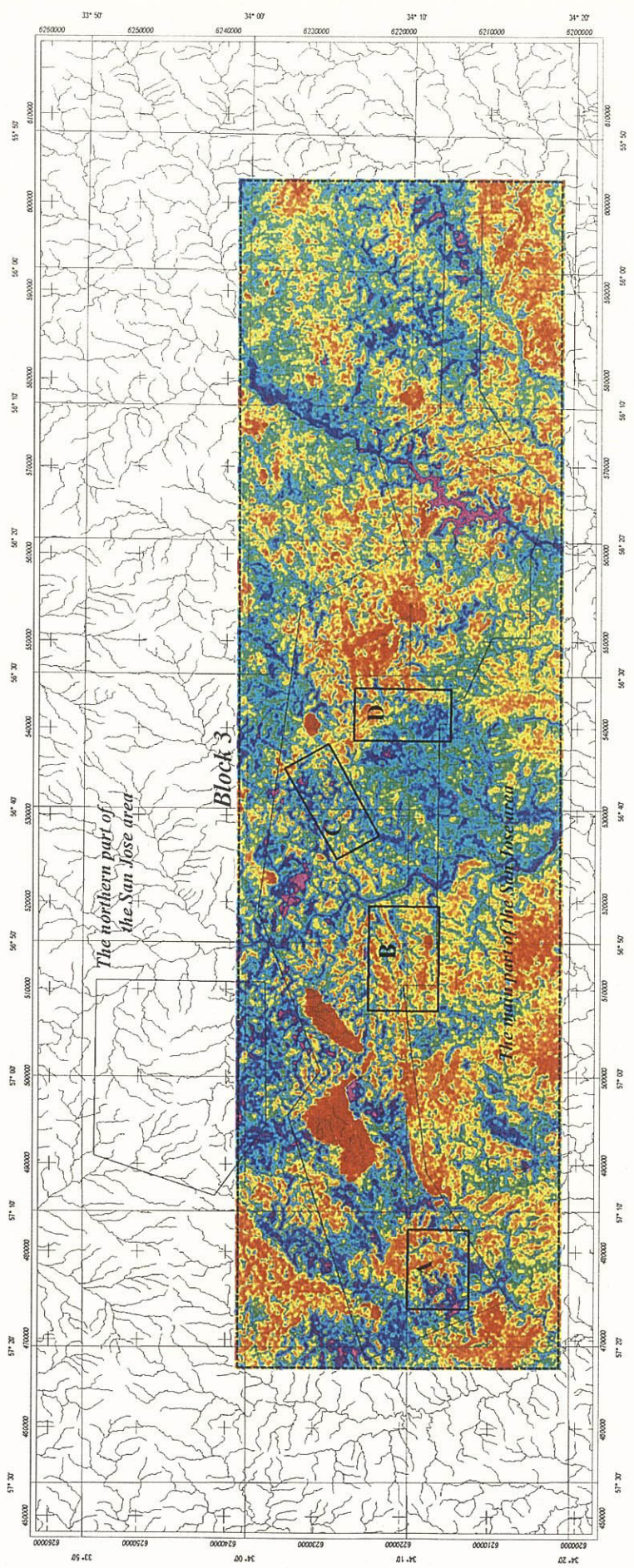
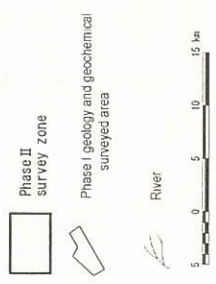
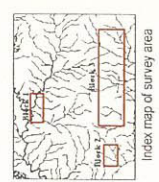
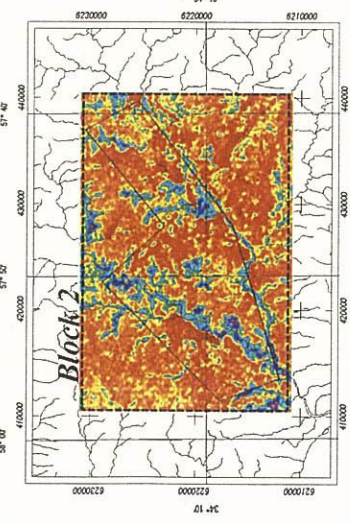
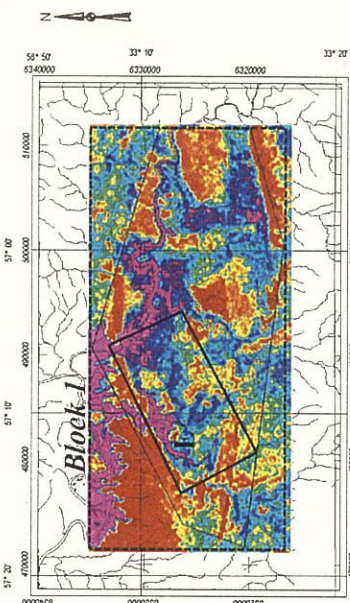
Results of radiometric dating (K-Ar method)

Ser. No.	Sample No.	Zone	Rock Name	Geol. Unit	Sample Type	Potassium (K wt%)	Rad. ⁴⁰ Ar (10 ⁻⁸ cc/g)	K-Ar age (Ma)	Air Cont. (%)
1	AR2033	A	granite	pCC	whole rock	1.94 ± 0.039	18335 ± 180	1542 ± 23	1.96
2	AR2048	E	granodiorite	pCC	whole rock	2.41 ± 0.048	25415 ± 255	1659 ± 24	1.43
3	BR2010	C	granite	pCC	whole rock	0.73 ± 0.015	8508 ± 84	1775 ± 25	1.76
4	DR2024	D	diorite	pCCG	whole rock	0.24 ± 0.012	3213 ± 33	1934 ± 61	2.86
5	DR2052	E	granodiorite	pCCG	whole rock	2.08 ± 0.042	25685 ± 255	1833 ± 26	45.9

$\lambda \epsilon = 0.581 \times 10^{-10}$ /year, $\lambda \beta = 4.962 \times 10^{-10}$ /year
⁴⁰K/K=0.01167 atom%

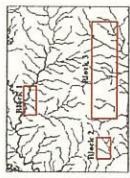
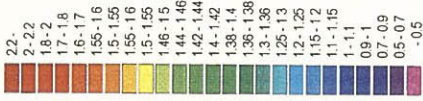
Appendix 5: Results of airborne survey

Total count of radioactivity



Airborne radiometric map of total count of radioactivity of the airborne survey area

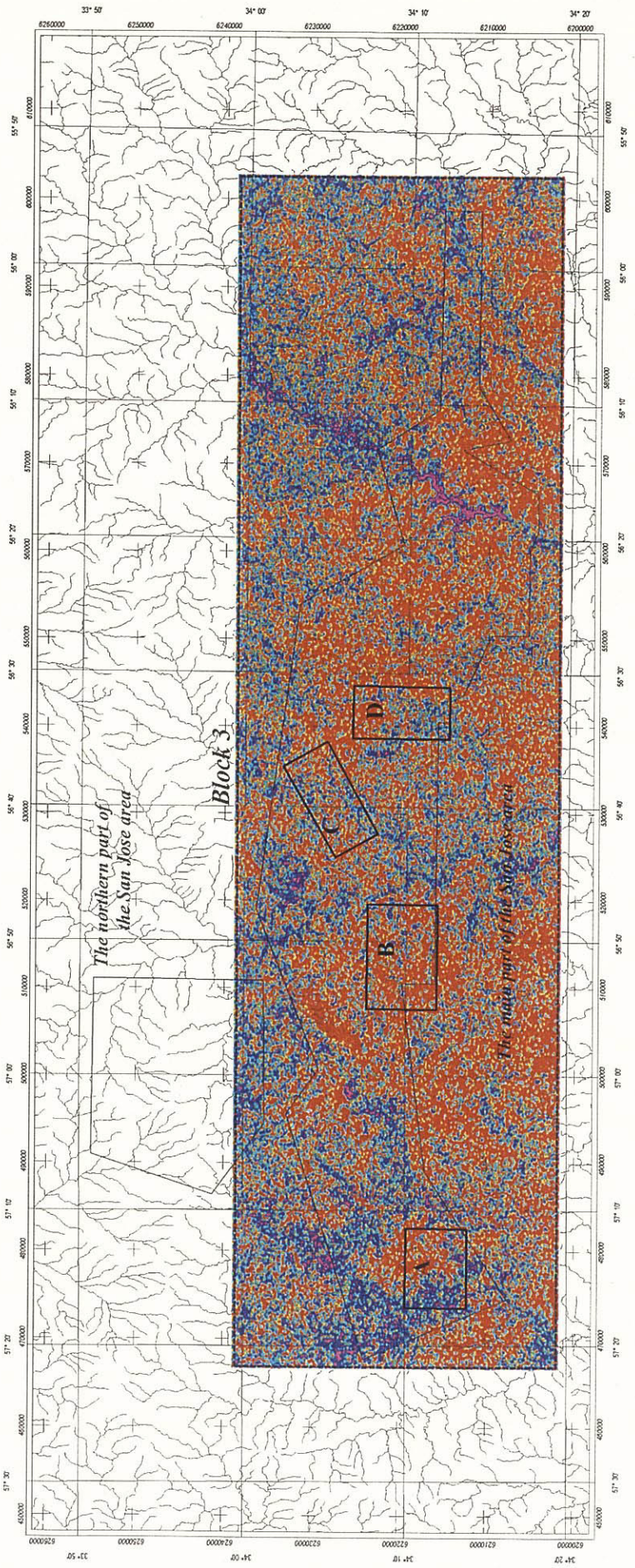
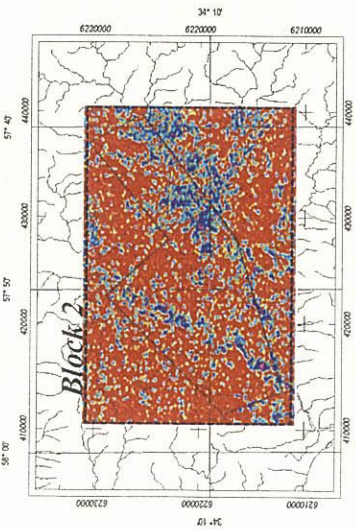
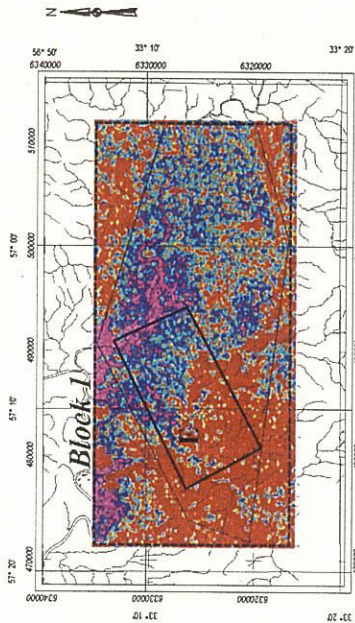
Equivalent Uranium concentration



Phase II survey zone

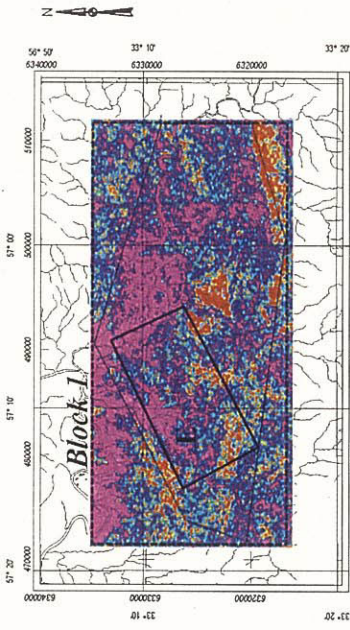
Phase I geology and geochemical surveyed area

River

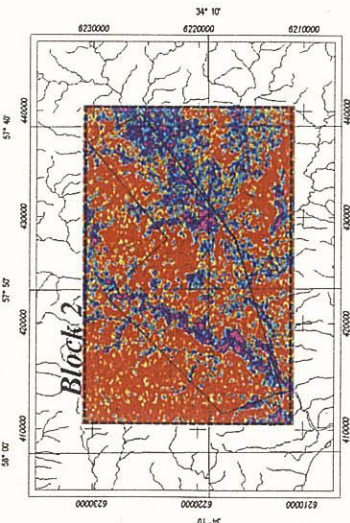


Airborne radiometric map of uranium of the airborne survey area

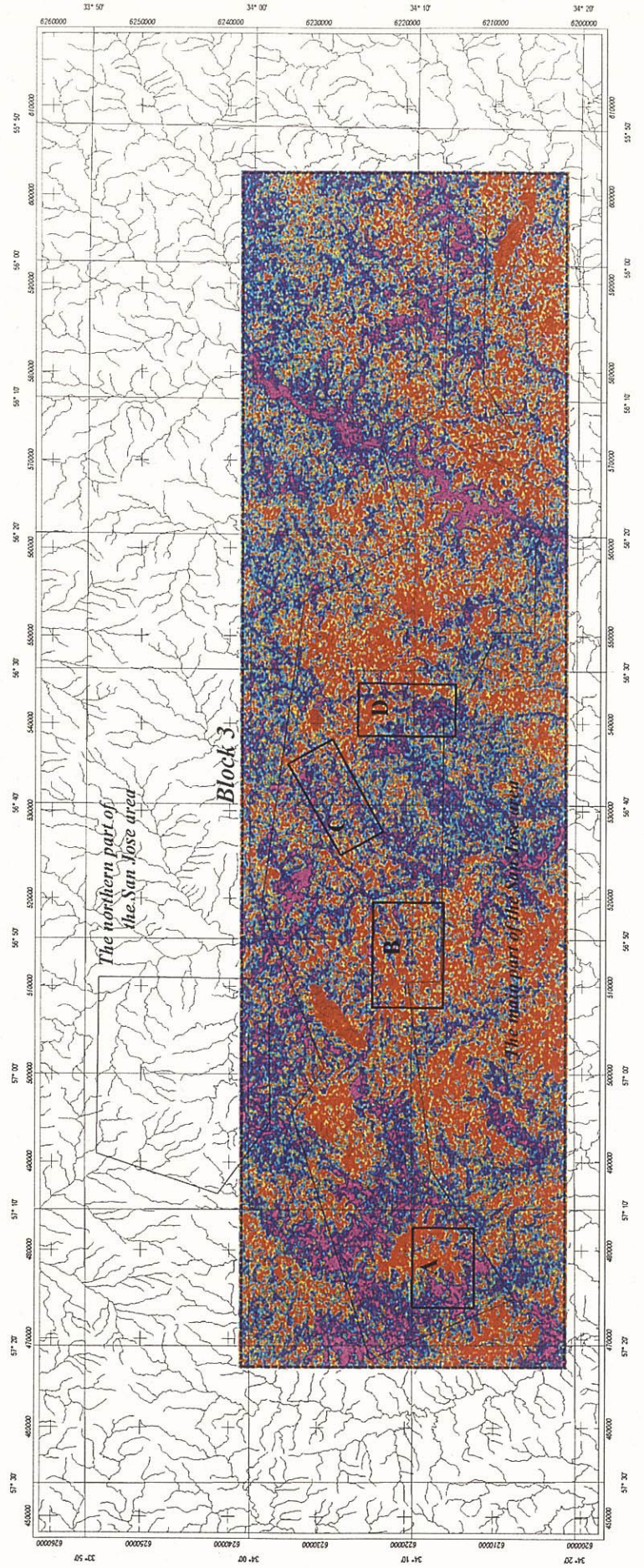
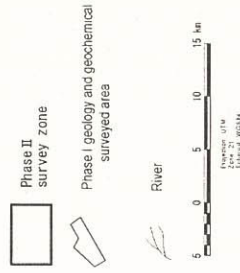
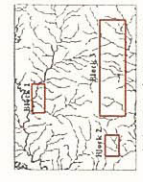
Equivalent Thorium concentration (ppm)



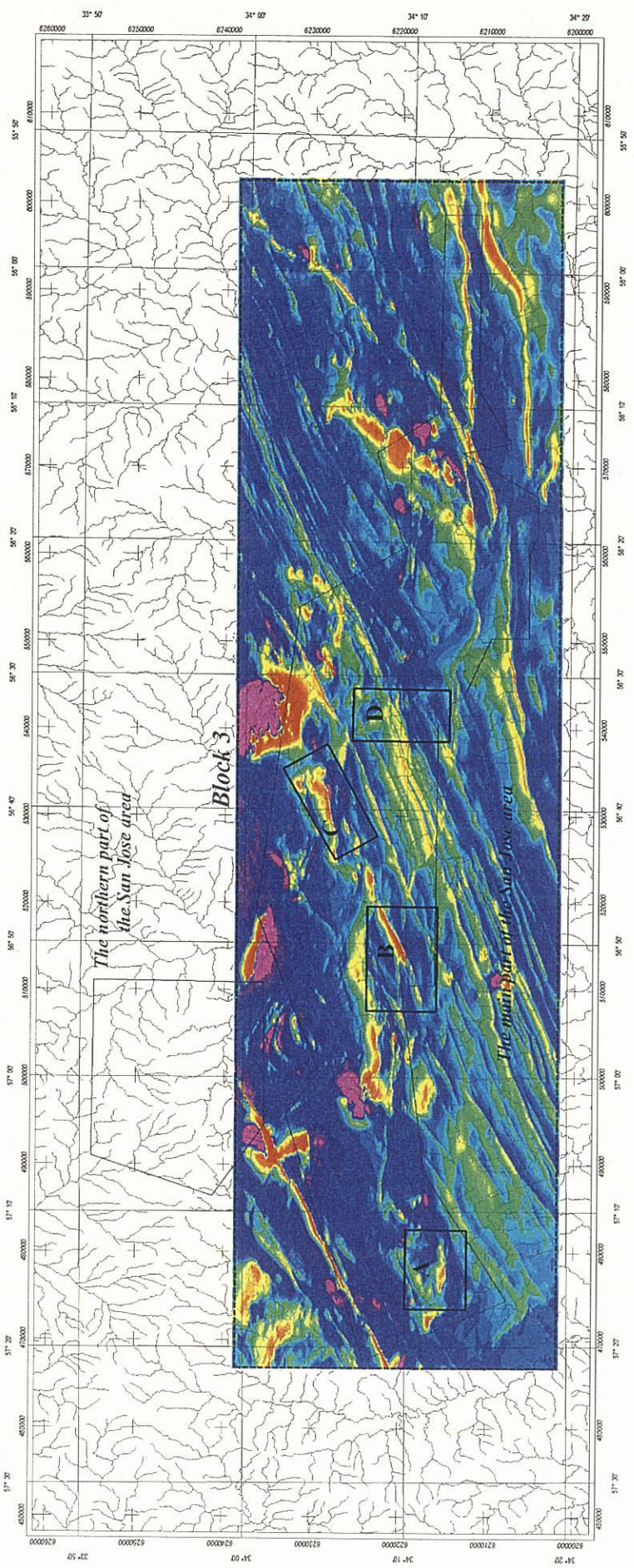
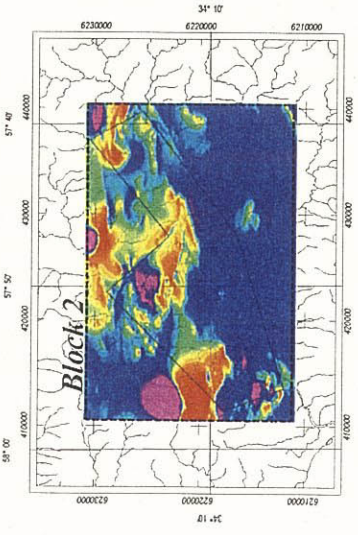
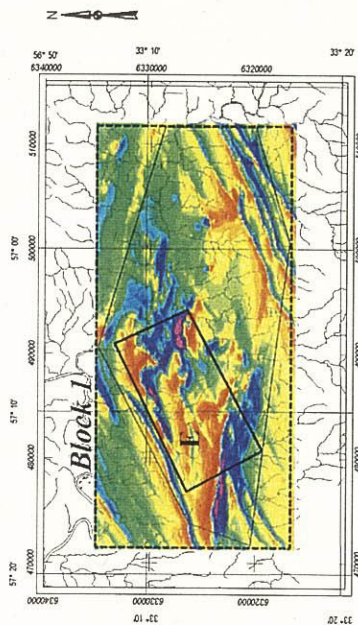
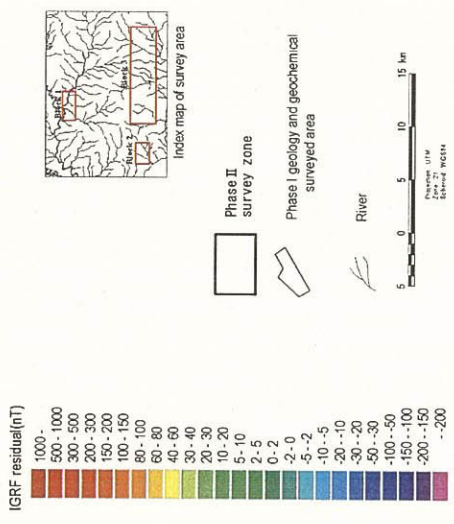
The Arroyo Grande area



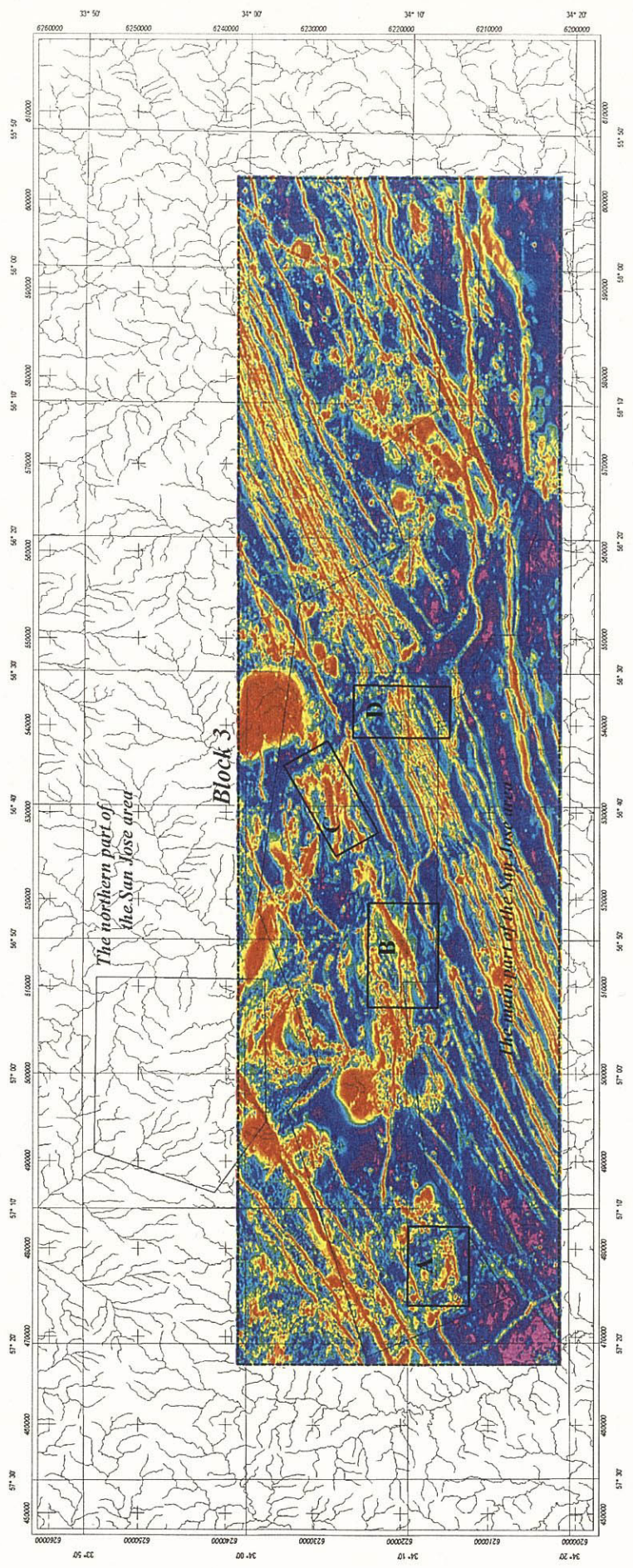
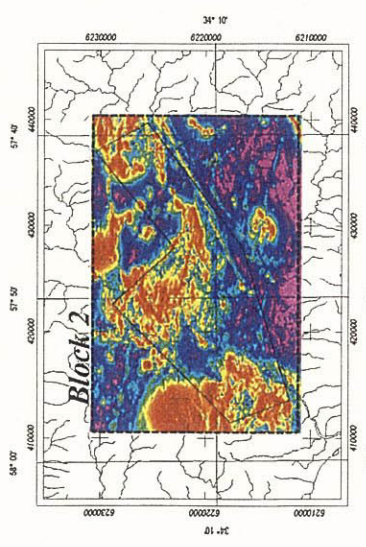
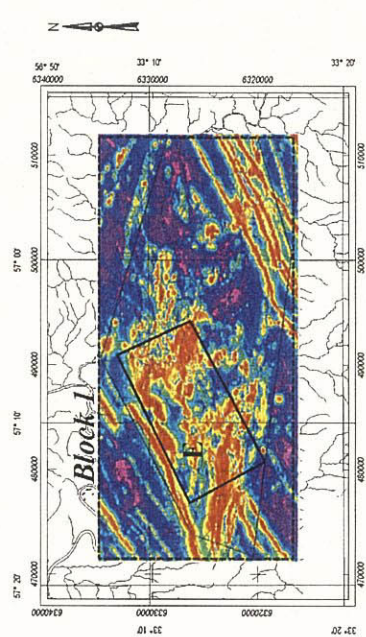
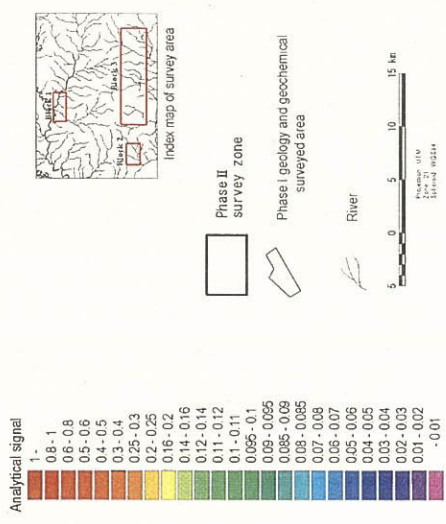
The western part of the San Jose area



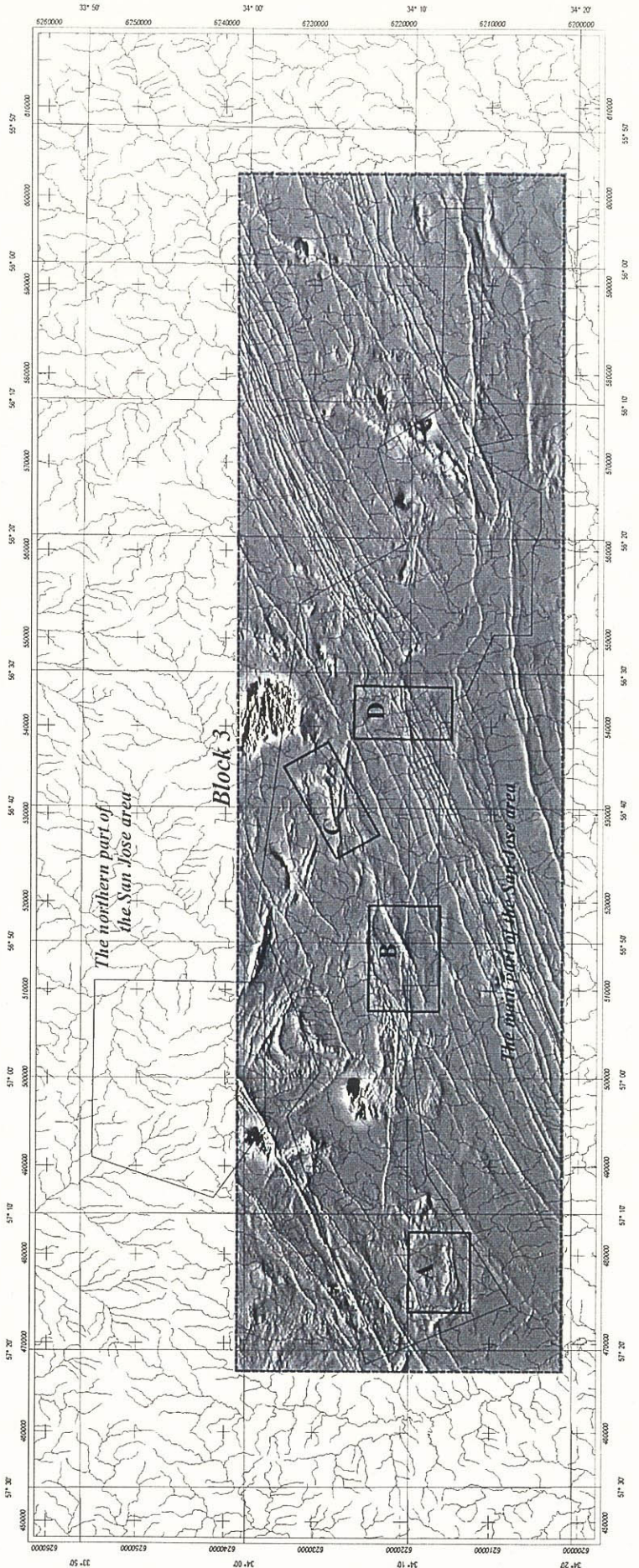
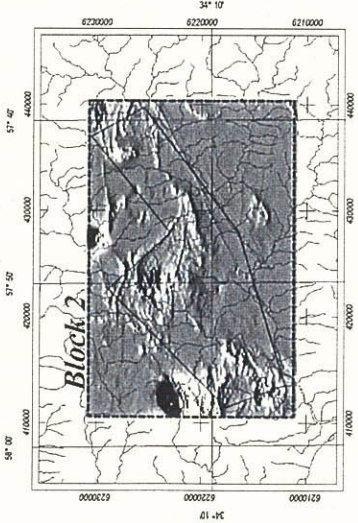
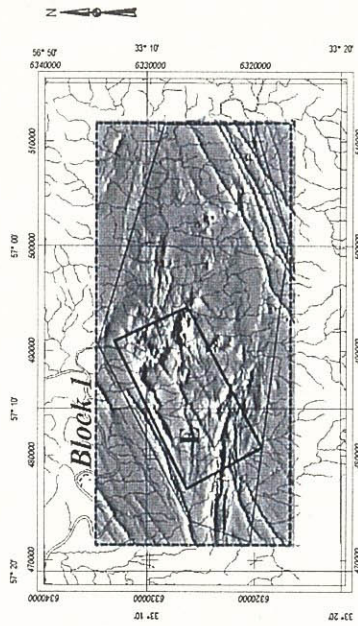
Airborne radiometric map of thorium of the airborne survey area



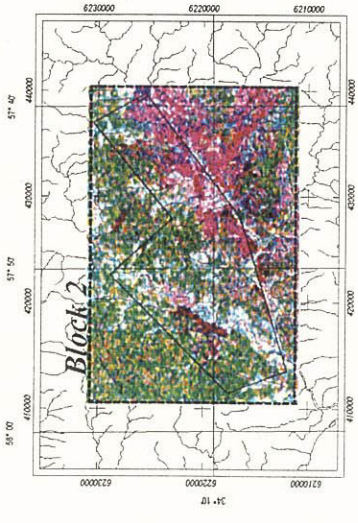
IGRF residual map of the airborne survey area



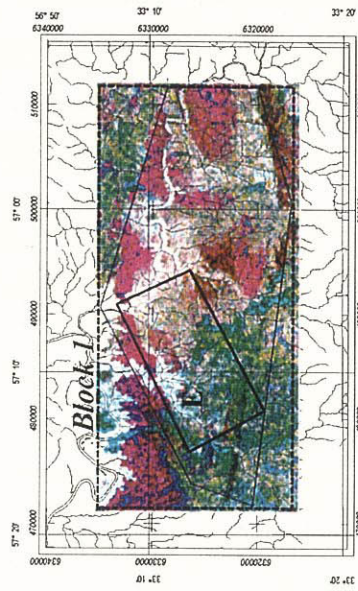
Analytical signal of the airborne survey area



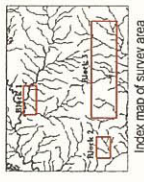
Magnetic vertical first derivative map of the airborne survey area



The western part of the San Jose area

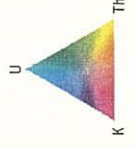


The Arroyo Grande area



Ternary map of radiometric activity

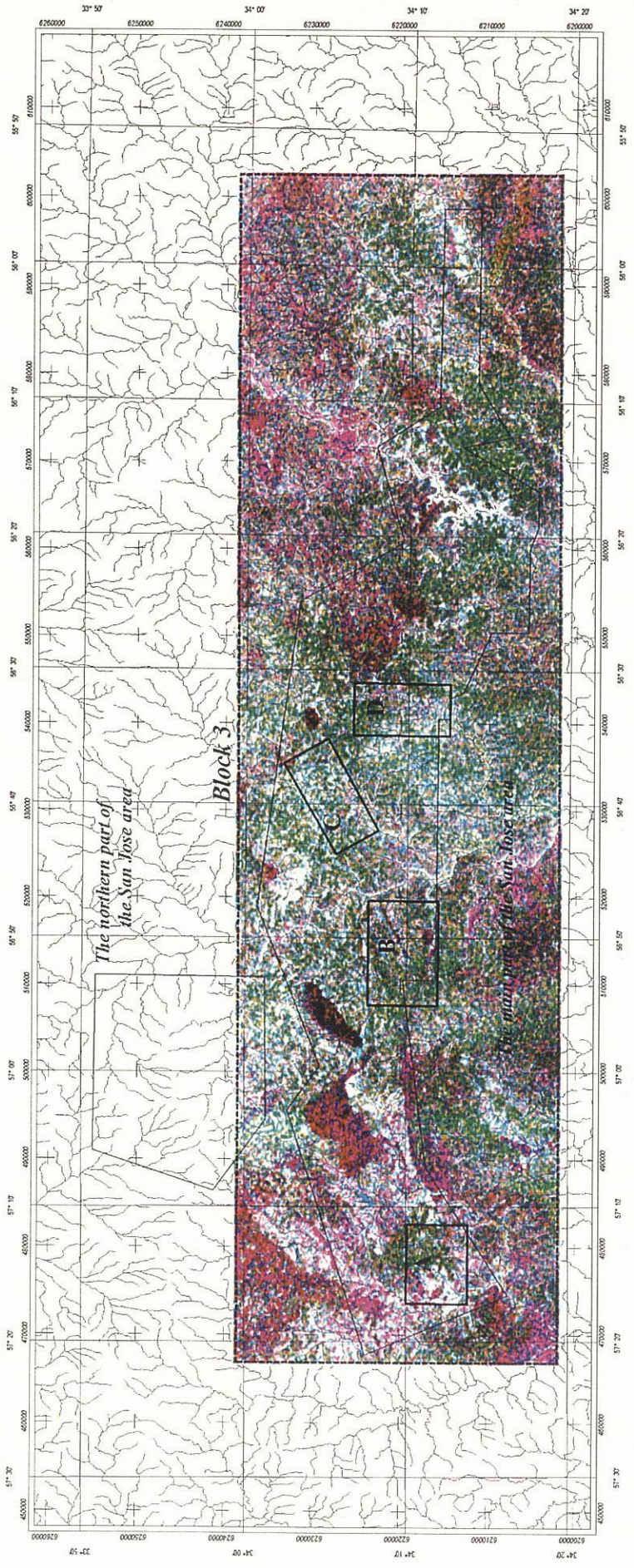
Color combination



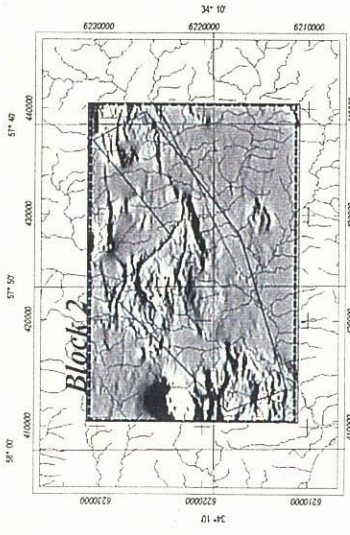
Phase II survey zone

Phase I geology and geochemical surveyed area

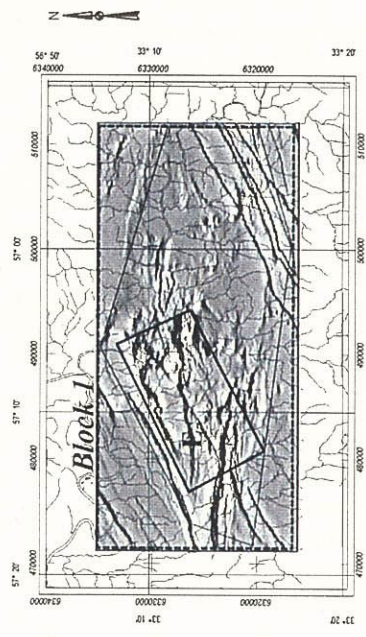
River



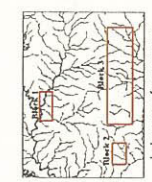
Colored ternary radiometric image of the airborne survey area



The western part of the San Jose area



The Arroyo Grande area



Shaded relief map of total magnetic field

Lighting direction
(azimuth $\phi = 45^\circ$)



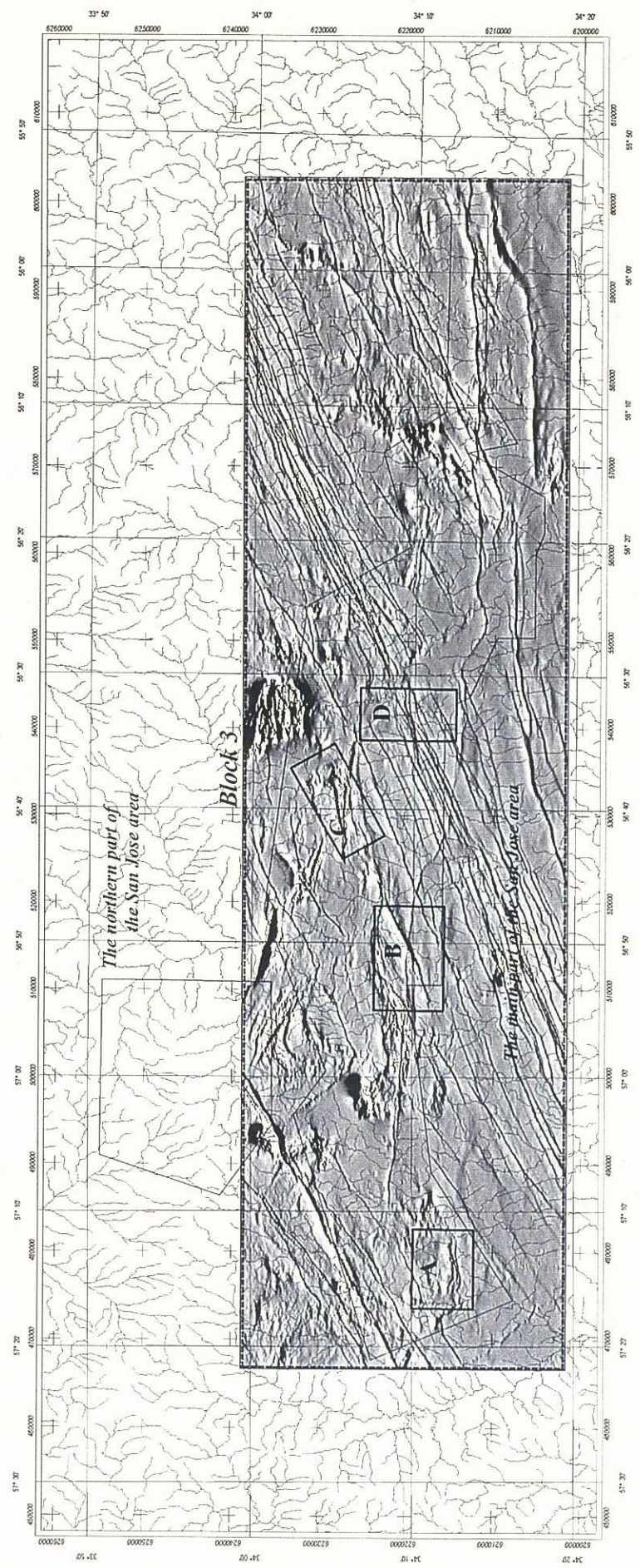
Phase II
survey zone



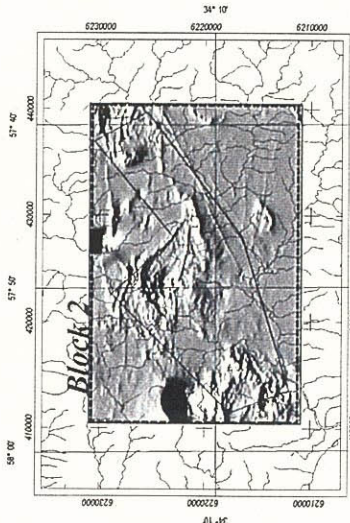
Phase I geology and geochemical
surveyed area



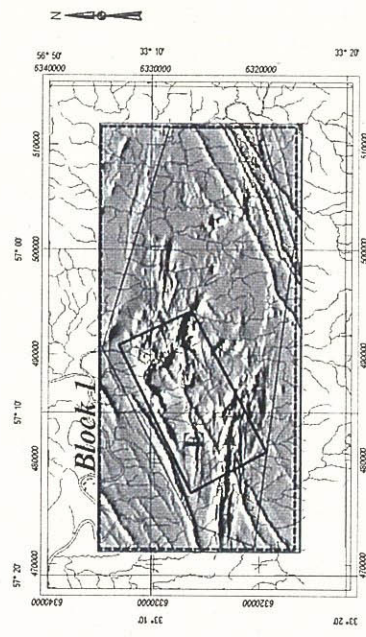
River



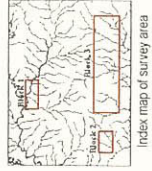
Shaded relief map of total magnetic intensity of the airborne survey area



The western part of the San Jose area



The Arroyo Grande area



Shaded relief map of reduced to pole magnetic field

Lighting direction (azimuth^o dip^o45^o)



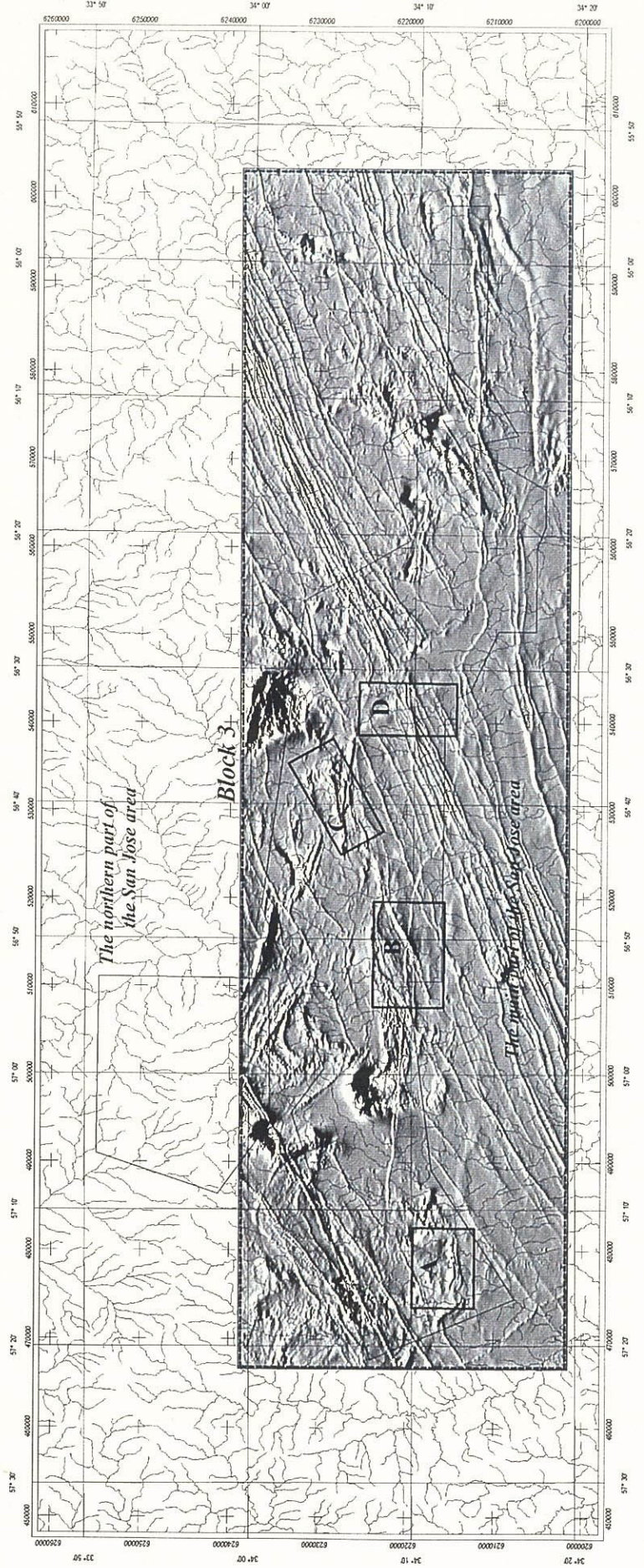
Phase II survey zone



Phase I geology and geochemical surveyed area



River



The northern part of the San Jose area

The main part of the San Jose area

Shaded relief map of reduced to the pole of the airborne survey area