

1-4 Interpretation Map

PL. II-2 is a map showing the results of integrated interpretation of all the data reported above. Also the areas where gold showings were extracted from geoscientific study are shown in PL. II-3.

1-5 Gold Showings Concentration Areas

Based on the 1 to 500,000 scaled geological map plotted gold ore deposits and gold ore showings, and on the list of gold ore deposits and showings, gold showings concentration areas were selected as follows;

(1) Tsagaan Ovoo Area (Au)

Regarding this area, 6 gold ore showings, 5 silver showings, 3 copper showings and 1 lead showings were described in existing documents, but here is nothing to mention specially except 4 gold ore showings (Nos.3, 4, 5 and 9). Geology of this area is composed of sedimentary rocks, acidic~intermediate volcanic rocks and granitic rocks of Permian.

(2) Ulziit-Guryansaihan Area (polymetal)

Ten gold ore showings, 4 silver showings, 5 copper showings and 6 lead showings were described about this area in documents, but metal contents in these ore showings were revealed to be low. Therefore this area has very low potentiality for ore deposits, in spite of many ore showings. Geology of this area is constituted from various rocks such as, limestone of late Proterozoic, sedimentary rocks of middle Palaeozoic, acidic plutonic rocks of late Palaeozoic and acidic~intermediate volcanic rocks of Cretaceous.

(3) Narangin Hudak-Tsagaansubraga Area (Cu, Au)

Regarding this area, 2 gold ore showings, 3 silver showings, 49 copper showings and 1 lead showings were described, and most of copper showings seem to be porphyry copper ore deposits such as, Shuten (Nos.9 & 13), Tsagaansubraga (No.9), Narinhudak (No.332), Naranginhudak (No.313) and Mandah (No.273). Geology of this area is mainly composed of green rocks of Silurian~Devonian, acidic plutonic rocks, acidic~intermediate volcanic rocks and sedimentary

rocks of Carboniferous~Permian, and sedimentary rocks of Cretaceous. Porphyry copper ore deposits here have likely genetical relation with igneous activities of Carboniferous~Permian.

(4) Ih Shanhai Area (Cu, Au)

Regarding this area, 1 gold ore showings, 2 silver showings and 9 copper showings were reported, and most of copper showings such as Ih-Shanhai (Nos.51, 53 and 55) are porphyry copper type. Geology of this area consists of acidic plutonic rocks, acidic~intermediate volcanic rocks and sedimentary rocks of Carboniferous~Permian, and porphyry copper ore deposits here show genetical relation with igneous activities of Carboniferous~Permian.

(5) Harmagtai Area (Cu, Au)

Regarding this area, 3 gold ore showings, 1 silver showings, 17 copper showings, 2 lead showings and 1 zinc showings were described, and most of copper showings are considered to be porphyry copper type such as Harmagtai (No.374); Uhaa Hudak (No.377) and Duchin Ural (No.350). Geology of this area is composed of sedimentary rocks of Silurian~Devonian, acidic plutonic rocks, acidic~intermediate volcanic rocks and sedimentary rocks of Carboniferous~Permian, and sedimentary rocks of Cretaceous. Most of porphyry copper type ore deposits show genetical relation with igneous activities of Carboniferous~Permian.

(6) Olon Ovoot-Manlay Area (Au)

Regarding this area, 35 gold ore showings including Olon Ovoot ore deposit, 1 silver showings, 12 copper showings and 1 lead showings were reported. Most of gold showings are comprised of quartz veins bearing Au. Geology of this area is composed of sedimentary rocks of Silurian~Devonian, sedimentary rocks, acidic plutonic rocks and acidic~intermediate volcanic rocks of Carboniferous~Permian, and sedimentary rocks of Cretaceous. Gold mineralization here seems to have genetical relation with igneous activities of Carboniferous~Permian.

(7) Bayanhongor Area (Au)

Regarding this area, 25 gold ore showings, 1 placer gold showing, 6 silver showings and 5 copper showings were reported, and almost half of gold showings

are comprised of quartz veins bearing Au. Geology of this area is composed of sedimentary rocks and ultrabasic rocks of Proterozoic, granitic rocks of Cambrian, and acidic plutonic rocks and acidic~intermediate volcanic rocks of Permian.

(8) Bogd Area (Cu, Au)

Five gold ore showings, 1 silver showing, 8 copper showings and 1 lead showing were reported. Here various types of gold ore showings were observed. Geology of this area is composed of limestone and basic~intermediate volcanic rocks of late Proterozoic, granitic rocks and acidic~intermediate volcanic rocks, acidic volcanic rocks of Jurassic~Cretaceous, and sedimentary rock of Cretaceous.

(9) Bayan Govi Area (Cu, Au)

Regarding this area, 18 gold ore showings, 5 silver showings and 16 copper showings were reported, most of gold showings are quartz veins containing Au and most of copper showing are also comprised of quartz veins bearing Cu. Geology of this area is mainly composed of Silurian sedimentary rocks, Devonian sedimentary rocks (sometimes limestone), Carboniferous~Permian sedimentary rocks and granitic rocks, and Jurassic~Cretaceous sedimentary rocks.

(10) Mt. Nemeget Area (placer gold)

Three gold ore showings and 5 placer gold showings were reported here. Geology of this area is composed of meta-basalt of Silurian, granitic rocks and intermediate~basic volcanic rocks of Carboniferous, and sedimentary rocks of Cretaceous.

Table II-1-1 List of ore deposits and showings in the survey area (1)

L-47-B

A u		A s s a y		G e o l o g y & o c c u r r e n c e		
No. Dep. No.	Ref. Locat.	Author	Year	Reg. No.	Placer gold deposit in alluvial fan (Pliocene)	
3	176	125	М. П. Федорова	1974	1683	
A g		A s s a y		G e o l o g y & o c c u r r e n c e		
No. Dep. No.	Ref. Locat.	Author	Year	Reg. No.	Quartz vein in granite (Permian)	
1	4	157	Паузер	1987	Ag: 15gr/t, Cu: 0.06%, Bi: 0.05%, As: 0.005%	
C u		A s s a y		G e o l o g y & o c c u r r e n c e		
No. Dep. No.	Ref. Locat.	Author	Year	Reg. No.	Quartz vein	
1	5	142	1-3 Тупчинов	1976	Cu: 0.03-0.5%	Quartz vein
2	6	142	1-3 Паузер	1987	Ag: 30gr/t, Cu: 0.8%, Mo: 0.01%	Quartz vein in granite (M.-L. Cambrian)
3	58	144	3-3 Бл. Голубов	1988	Cu: 0.3%, Ag: 0.15gr/t, Zn: 0.07%	Quartz vein in brecciated and silicified basic rock
4	61	144	1-3 Бл. Голубов	1985	Cu: <1%	Silicified part in the shale (Vend.-Cambrian)
5	64	144	3-3 Бл. Голубов	1981	Cu: 4%	Oxide Cu in brecciated rock (Vend.-E. Cambrian)
6	65	98	1-3 Тупчинов	1976	Cu: 0.14-1.05%	Quartz vein
7	122	146	1-3 Паузер	1987	Cu: 0.6% (max)	Quartz vein in shale (E.-L. Silurian)
8	123	146	1-3 Паузер	1987	Cu: 0.3%	Quartz vein in shale (L. Ordovician-E. Silurian)
9	148	186	1-3 Паузер	1974	Cu: <1%, Ag: 3gr/t	
10	166	189	1-3 Степанов	1974	Cu: 0.02-2.4%, Zn: 0.01-0.3%	

[Legend for header of column]

[Legend for geology and occurrence]

Dep. No. : deposit or ore showing number.
 Ref. : page described in the collected report
 Locat. : location of ore showing in the map
 at a scale of 1 to 1,000,000
 Reg. No. : registered no. of report

E : Early, M. : Middle, L. : Late
 Ss : Sandstone
 dis. : dissemination
 py : pyrite
 Cpy : chalcopyrite
 Mo : molybdenum

Table II-1-1 List of ore deposits and showings in the survey area (2)

L-47-I
A.U.

No	Dep. No	Ref.	Local	A u t h o r	Year	Req. No	A s s a y	G e o l o g y & o c c u r r e n c e
1	266	-1-2	А н д р е а с	1970		Au:3.3g/t	Carbonated rock (L.Ripheian)	
2	267	-2	А н д р е а с	1970		Au:0.2-4g/t	Quartz vein in granite (M.-L.Cambrian)	
3	267	-2	А н д р е а с	1970		Au:2.6g/t	Quartz vein in marble (L.Ripheian)	
4	267	-2	А н д р е а с	1970		Au:0.1g/t, Ag:0.6g/t	Quartz vein (M:1.5a) in shale (L.Ripheian)	
5	267	-2	А н д р е а с	1970		Au:0.1g/t, Ag:2.8g/t	Quartz vein in shale (Uend-E.Cambrian)	
6	267	-2	А н д р е а с	1970		Au:4.6g/t	Silicified meta-effusive part in green rock (Uend-E.Cambrian)	
7	13	267	-2	З а б о т к и н	1988	Au:0.2-2g/t	Quartz vein in metamorphic rock (Uend-E.Cambrian)	
8	17	268	-3	З а б о т к и н	1988	Au:1-6pcs, grain size:0.05-1.5a/m	Placer gold deposit in the stream sediment	
9	23	268	-2	З а б о т к и н	1988	Au:5.3g/t	Zone (L:120a, W:5a) of quartz vein	
10	27	268	-3	З а б о т к и н	1988	Au:0.03-0.08g/t	The 4 areas (0.0675-0.125km ²) of geochemical anomalies	
11	29	268	-2	М и т е в	1987	Au:0.02-0.14g/t	The 3 areas (0.68-0.75km ²) of geochemical anomalies	
12	30	269	-2	М и т е в	1987	Au:1.5-2.5g/t	Silicified zone bearing limonite and hematite	
13	31	269	-2	В о и м е н к о	1977	Au:1.1-1.9g/t	Zone bearing limonite	
14	32	269	-2	В о и м е н к о	1977	Au:0.1g/t, Ag:1.3g/t	Quartz vein (W:0.5a) in shale (E.-M.Ripheian)	
15	33	269	-2	Х р а п о в	1988	Au:0.2-0.5g/t	Shale (E.-M.Ripheian) & conglomerate (Palaeozoic)	
16	34	269	-2	З а б о т к и н	1988	Au:1-12pcs, grain size:0.05-1a/m	Zone (36.8km ²) of geochemical anomaly	
17	35	270	-3	З а б о т к и н	1988	Au:1-30pcs, grain size:0.1-1.5a/m	Zone (58km ²) of geochemical anomaly	
18	36	270	-3	З а б о т к и н	1988	Au:0.8-6.2g/t, Ag:5g/t	Quartz vein	
19	39	*211	-3	З а б о т к и н	1988	Au:0.8g/t	Zone bearing hematite in granite (M.Permian)	
20	41	270	-2	Х р а п о в	1984	Au:0.2-4.2g/t	Sulphide zone in diorite and porphyry	
21	42	270	-2	Х р а п о в	1988	Au:0.3-5g/t	Quartz vein in contact zone with quartz diorite	
22	49	270	-3	З а б о т к и н	1988	Au:0.2-0.3g/t	Placer gold in gravel of terraces	
23	52	271	-2	З а б о т к и н	1988	Au:0.2-0.3g/t	Placer gold deposit (1.88km ²)	
24	55	*214	-3	З а б о т к и н	1988	Au:0.1g/t	Quartz vein	
25	77	*214	-1	З а б о т к и н	1988	Au:0.1-1.5g/t, Ag:1.5-3g/t	Quartz vein in sandstone (L.Ordoevician-E.Silurian)	
26	84	271	-1	З а б о т к и н	1988	Au:0.2g/t, Ag:0.8g/t	Quartz vein in sandstone (L.Ordoevician-E.Silurian)	
27	87	271	-1	З а б о т к и н	1988	Au:0.01-0.2g/t, Ag:0.5-3.5g/t	Quartz vein (L:50-250a, W:4a)	
28	89	271	-1	З а б о т к и н	1988	Au:0.1-0.5g/t, Ag:3g/t	Quartz vein (L:120a, W:12a)	
29	90	272	-1	З а б о т к и н	1988	Au:0.12-0.3g/t, Ag:0.5-5g/t	Quartz vein in granite (E.Permian)	
30	91	272	-1	З а б о т к и н	1988	Au:0.1-0.3g/t, Ag:0.5-1.5g/t	Silicified zone in ss., silt & quartzite (E.-M.Ripheian)	
31	129	272	-1	З а б о т к и н	1988	Au:0.03-0.1g/t	Quartz vein in Py zone (L:200a, W:1-10a)	
32	139	272	-1	З а б о т к и н	1988	Au:0.2g/t	Py & Cpy zone in silicified rhyolite	
33	147	273	-3	З а б о т к и н	1988	Au:0.8g/t, Ag:2g/t	Py zone (W:50a) in granite (L.Ripheian)	
34	149	273	-1	З а б о т к и н	1988	Au:0.15g/t	Quartz vein in volcanic rock (M.Devonian)	
35	156	273	-1	З а б о т к и н	1988	Au:0.05-0.3g/t, Pb:0.2x	Quartz vein	
36	188	*215	-2	З а б о т к и н	1988	Au:0.1-1.5g/t	Quartz vein	
37	178	*216	-2	З а б о т к и н	1988	Au:0.1-0.6g/t, Ag:1-4g/t	Quartz vein	
38	195	*218	-1	З а б о т к и н	1988	Au:0.25-8g/t, Ag:5g/t (max)	Oxide Fe bearing zone (100x5a) in limestone (M.Devonian)	
39	194	273	-2	З а б о т к и н	1988	Au:0.2g/t	Quartz vein in shale (E.Devonian)	
40	196	273	-2	У п я н д	1986	Au:0.2g/t	Quartz vein in shale (E.Devonian)	
41	198	273	-2	З а б о т к и н	1988	Au:0.2g/t, Ag:1-5g/t	Quartz vein in contact zone (800x60a) with shale (E.Devonian) & Granite	
42	200	274	-2	З а б о т к и н	1988	Au:0.8g/t	Quartz vein (L:15-100a, W:0.2-1a) in biotite granite	
43	208	261	-2	З а б о т к и н	1988	Au:0.1g/t, Ag:0.2g/t	Quartz vein in sandstone (L.Ordoevician-E.Silurian)	
44	210	*219	-2	З а б о т к и н	1988	Au:0.1g/t (max), Ni:0.15-0.2x	Zone (22km ²) of geochemical anomaly	
45	217	274	-2	З а б о т к и н	1988	Au:0.1-0.15g/t		
46	221	274	-1	З а б о т к и н	1988	Au:0.05-0.5g/t		
47	223	274	-1	З а б о т к и н	1988	Au:2-112pcs, grain size:0.2-1.3a/m		

Table II-1-1 List of ore deposits and showings in the survey area (3)

No	Dep. No	Ref.	Local	Aut. No	Year	Reg. No	Assay	Geology & occurrence
48	225	275	1-1	Заботкин	1988	4276	Au: 0.2g/t	Quartz vein (4.0x2m) in shale (E. Carboniferous)
49	226	275	1-2	Заботкин	1988	4276	Au: 3g/t	Geology & occurrence
50	227	275	1-2	Заботкин	1988	4276	Au: 1.5g/t, Ag: 3g/t	Quartz vein (L: 20-50m, W: 0.5-4m) in biotite granite Zone bearing Py & Cpy in granite (L. Devonian)
Ag								
No	Dep. No	Ref.	Local	Aut. No	Year	Reg. No	Assay	Geology & occurrence
1	14	220	1-2	Торток	1984	3702	Ag: 1-182.6g/t	Quartz vein
2	15	275	1-3	Торток	1984	3702	Ag: 13g/t	Quartz lens (8.4x5m) in gabbro (Uend-E. Cambrian)
3	21	276	1-3	Заботкин	1988	4276	Ag: 0.15-4g/t	Quartz vein zone (300x20m) in granite (M. Permian)
4	37	276	1-3	Заботкин	1988	4276	Ag: 1.6g/t, Cu, Pb, Zn: 0.01%	Quartz zone (350x150m) in contact with shale & granite
5	38	276	1-3	Заботкин	1988	4276	Ag: 0.2-1.1g/t	Quartz vein zone (W: 0.5-1.5m) in granite (M. Permian)
6	47	276	1-2	Заботкин	1988	4276	Ag: 100g/t, Pb: 1.5%	Silicified zone in rhyolitic tuff (M. Permian)
7	68	276	1-2	Заботкин	1988	4276	Ag: 0.5-3g/t	Stern in granodiorite (M.-L. Cambrian)
8	85	277	1-1	Заботкин	1988	4276	Ag: 0.5-3g/t	Quartz vein (50x3.5m) in sandstone (L. Ordovician-E. Silurian)
9	121	277	1-2	Заботкин	1988	4276	Ag: 10g/t, Cu: 0.6%	Sulphide diss. zone in shale (E.-M. Riphean)
10	135	277	1-3	Заботкин	1988	4276	Ag: 8g/t, Zn: 0.1%	Py diss. zone (100x0.5m) in silicified rhyolite
11	150	277	1-3	Заботкин	1988	4276	Ag: 1-3g/t	Quartz & epidote vein
12	179	277	1-3	Заботкин	1988	4276	Ag: 3g/t, Pb: 0.15%	Quartzite in shale (M.-L. Riphean)
13	188	277	1-2	Заботкин	1988	4276	Ag: 30g/t, Cu: 0.25%	Quartz vein zone (300x18m) in granodiorite (E. Devonian)
14	193	278	1-1	Заботкин	1988	4276	Ag: 6-200g/t	Quartz vein in granite (L. Devonian)
15	195	278	1-2	Заботкин	1988	4276	Ag: 4g/t	Quartz vein zone (70x1.5m) in granite (E. Devonian)
16	205	278	1-1	Заботкин	1988	4276	Ag: 1-10g/t	Quartz vein in granite (L. Devonian)
17	215	278	1-1	Заботкин	1988	4276	Ag: 1-5g/t	Quartz vein zone (200x5m) in sandstone (E. Devonian)
18	216	278	1-1	Заботкин	1988	4276	Ag: 1g/t	Mineralized rhyolite dyke (200x5m) in sandstone (E. Devonian)
19	218	278	1-2	Заботкин	1988	4276	Ag: 1g/t	Quartz vein zone (50x5m) in granite (L. Devonian)
20	219	278	1-2	Заботкин	1988	4276	Ag: 5g/t, As, Cu: 0.1%	Quartz vein zone in sandstone (E. Devonian)
21	235	279	1-3	Заботкин	1988	4276	Ag: 1-20g/t	Py diss. zone in diorite dyke (300x2.5m)
								Hamatite containing quartzite lens in sandstone (E. Devonian)
Cu								
No	Dep. No	Ref.	Local	Aut. No	Year	Reg. No	Assay	Geology & occurrence
1	3	255	1-2	Бойшенко	1977			Quartz vein in granite (E. Permian)
2	10	255	1-2	Бойшенко	1977			Quartz vein with oxide Cu in granite (E. Proterozoic)
3	11	255	1-2	Андреев	1970			Quartz vein with Py
4	40	136	1-2	Заботкин	1988	4276	Cu: 0.37%, Mo: 0.0053%, 150,000 tons	
5	48	255	1-3	Бойшенко	1978			Quartz vein (W: 0.3-1.5m) in volcanic rock (Uend-E. Cambrian)
6	53	256	1-3	Заботкин	1988	4276	Cu: 0.1-1%, Ag: 0.5-5g/t	Quartz vein (400x50m) in contact zone with granite and limestone (E. Devonian)
7	58	256	1-1	Заботкин	1988	4276	Cu: 0.03-3%, Ag: 1-50g/t	Quartz vein zone in chloritized area
8	59	256	1-1	Заботкин	1988	4276	Cu: 1%, Ag: 5g/t	Py & Cpy dissemination zone (150x50m) in granite (E. Permian)
9	62	256	1-1	Заботкин	1988	4276	Cu: 0.2%, Ag: 2-6g/t	Py & malachite film in granite (M.-L. Cambrian)
10	63	256	1-1	Заботкин	1988	4276	Cu: 3%, Pb: 1%, Zn: 1%	Py & malachite film in granite (M.-L. Cambrian)
11	64	256	1-2	Заботкин	1988	4276	Cu: 0.8%, Pb: 0.98%	Quartz-hematite vein in granite (M.-L. Cambrian)
12	65	188	1-1	Заботкин	1988	4276	Cu: 2.62%, Au: 0.3g/t, Ag: 4.5g/t	Quartz vein
13	67	256	1-1	Заботкин	1988	4276	Cu: 0.2%, Ag: 2-6g/t	Py & malachite film in granite (M.-L. Cambrian)
14	72	257	1-2	Заботкин	1988	4276	Cu: 0.08%, Mo: 0.01%	Quartz vein bearing hematite in gabbro & granite (M.-L. Cambrian)
15	78	257	1-1	Заботкин	1988	4276	Cu: 3% (max), Ag: 16g/t, Pb: 0.03%	Silicified shale zone bearing Py in limestone (M.-L. Riphean)
16	78	257	1-1	Заботкин	1988	4276	Cu: 0.5%, Ag: 1g/t	Granite (L. Permian)
17	83	257	1-2	Заботкин	1988	4276	Cu: 0.1-0.3%, Ag: 0.6-3g/t	Share zone with py diss. & malachite film in tuff (E. Permian)
18	88	190	1-1	Заботкин	1988	4276	Cu: 0.06-0.4%, Zn: 0.01-0.025%	Quartz vein
19	92	257	1-1	Заботкин	1988	4276	Cu: 0.5-1%, Ag: 1g/t	Share zone with malachite film in shale (L. Ordovician-E. Silurian)
20	93	258	1-1	Заботкин	1988	4276	Cu: 1%, Zn: 0.02%	Shale chlorite-quartz-feldspar with malachite film

Table II-1-1 List of ore deposits and showings in the survey area (4)

No	Dep. No	Ref.	Locat.	Year	1955	Reg. No	Assay	Quartz vein and silicified zone in shale (L. Ordovician-E. Silurian)
21	94	258	II-1	1973			Cu:0.3%, Ag:0.3g/t	Quartz vein and silicified zone in shale (L. Ordovician-E. Silurian)
22	96	258	II-2	1977			Cu:0.2%, Zn:0.03%	Quartz vein in granite & quartzporphyry (L. Permian)
23	97	258	II-1	1977			Cu:0.2%	Quartz vein (U:0.5m) in granite (E. Permian)
24	98	258	II-2	1988	4276		Cu:3%, Zn:0.3%, Ag:5g/t, Au:0.25g/t	Molded tuff (Uend) bearing Py (max) & oxide film
25	102	*98	II-2	1988			Cu:0.3%, Zn:0.3%, Mo:0.05%	Limestone (Uend) bearing graphite and Fe
26	108	258	II-1	1988	4276		Cu:0.6-1.5%	Quartz vein in Ss. (E.-N. Cambrian)
27	118	258	II-2	1988	4276		Cu:1.2%, Ag:3g/t (max)	Ultrabasic rock (Uend) bearing Cpy & malachite
28	112	259	II-2	1988	4276		Cu:5%, Ag:0.6-1g/t	Ultrabasic rock bearing malachite
29	115	*282	II-2	1988	4276		Cu:0.1%, Au:0.2%, Ag:0.01%, Ag:1g/t	Silicified zone (30x3m) bearing malachite in dacite (L. Permian)
30	123	259	II-3	1973			Cu:0.04-0.8%	Quartzite (E.-N. Riphean) bearing sulphide mineral
31	125	262	II-2	1973				Quartz vein
32	128	259	II-3	1973			Cu:0.04-0.8%	Quartz vein
33	137	259	II-3	1973			Cu:0.3%, Pb:0.3%, Zn:0.3%	Ultrabasic rock (L. Riphean) bearing Cpy
34	138	259	II-3	1988	4276		Cu:0.4%, Pb:0.03%, Zn:0.12%, Ag:2g/t	Silicified zone in gabbro (L. Riphean)
35	146	259	II-3	1973			Cu:0.6-0.8%, Ag:18g/t	Dolomite (E.-N. Riphean) bearing Cpy
36	148	268	II-3	1988	4276		Cu:0.6%	Silicified zone in diorite-porphry (E. Permian)
37	161	*192	II-1	1988	4276		Cu:0.1-1%, Zn:0.01-0.15%	Quartz vein
38	162	*193	II-1	1988	4276		Cu:0.1-2%, Zn:0.01-0.3%	Quartz vein
39	163	*194	II-1	1988	4276		Cu:0.05-5%, Pb:0.1%	Quartz vein
40	164	*195	II-1	1988	4276		Cu:0.01-2%, Ag:0.5-2g/t	Quartz vein
41	165	*198	II-2	1988	4276		Cu:0.3-17.8%, Zn:0.05-1%	Quartz vein
42	166	260	II-1	1988	4276		Cu:0.05-1%, Mo:0.0012%, Ag:1g/t	Contact zone with quartzdiorite and rhyolite (Devonian)
43	167	260	II-1	1988	4276		Cu:1%, Ag:1.5-2g/t	Silicified zone in Ss (N. Devonian) and ultrabasic rock
44	188	*197	II-1	1988	4276		Cu:0.05-2%, Pb:0.15%, Zn:0.5%	Quartz vein
45	188	*198	II-3	1988	4276		Cu:0.4-3%, Ag:15-100g/t	Quartz vein
46	184	*199	II-1	1988	4276		Cu:0.2-0.5%, Pb:0.05-0.4%, Zn:0.25-0.9%	Quartz vein
47	186	*201	II-2	1988	4276		Cu:0.03-2.4%, Pb:0.7%, Zn:0.01%	Quartz vein
48	188	268	II-2	1988	4276		Cu:0.1%, Pb:0.02%, Ag:1g/t	Mineralized zone in ultrabasic rock (E. Silurian)
49	199	268	II-1	1988	4276		Cu:0.1-0.15%, Bi:0.1max, Ag:3g/t	Granite (L. Devonian) bearing malachite film (area: 300x20m)
50	209	261	II-2	1974			Cu:1%, Pb:Zn:0.3%, Ag:0.6-0.8%	Quartz vein in granite (E. Devonian)
51	213	*202	II-2	1988	4276		Cu:0.03-3%, Pb:0.25%, Ag:0.6-3g/t	Quartz vein
52	214	*203	II-1	1988	4276		Cu:0.06-4%, Ag:15g/t, Au:0.15%	Quartz vein
53	223	*204	II-1	1988	4276		Cu:0.3-1%, Au:0.2g/t, Ag:3-10g/t	Fornfels (L. Ordovician-E. Silurian) bearing secondary Cu minerals
54	224	*204	II-1	1988	4276		Cu:0.1-0.58%, Ag:1-20g/t	Quartz vein
55	230	*205	II-2	1986-88			Cu:0.03-1%, Zn:0.2%	Quartz vein

Table II-1-1 List of ore deposits and showings in the survey area (5)

K-47-B

No	Dep.No	Ref.	Local	Auth or	Year	Reg.No	Assay	Geology & occurrence
1	2	*386	1-1	Болжонин	1953	1693	Au: 0.45g/t	Placer gold deposit in terrigenous sediment (L.Devonian)
2	3	*381	1-2	Болжонин	1953	1679	No description	Placer gold deposit in sandstone and conglomerate (Cretaceous)
3	4	*383	1-2	Болжонин	1953	1693	Au: 25-30g	Two placer gold deposits in Ss and conglomerate (Cretaceous)
4	5	*384	1-2	Болжонин	1953	1693	No description	Placer gold deposit in shale, sandstone and siltstone
5	6	*386	1-2	Болжонин	1953	1693	No description	Placer gold deposit in shale (Palaeozoic) and red rock (Cretaceous)
6	7	*387	1-2	Болжонин	1953	1693	No description	Three placer gold deposits in red rock (L.Cretaceous)
7	8	314	1-2	Подколзин	1989		Au: 0.015-0.6g/t, Ni: 0.03-0.15%	Silicified fracture zone in limestone (N.Silurian-E.Devonian)
8	9	315	1-2	Подколзин	1989		Au: 0.1-1g/t	Ss (Devonian) containing limestone and shale bearing py
9	10	315	1-2	Подколзин	1989		Au: 0.6g/t, Ag: 10g/t, Cu: 1%	

Cu

No	Dep.No	Ref.	Local	Auth or	Year	Reg.No	Assay	Geology & occurrence
1	12	314	1-3	Дордиг	1981		Cu: 0.5%	
2	13	*299	1-3	Дордиг	1981		Cu: 1%	Quartz vein and silicified zone in granodiorite (E.-N. Carboniferous)

Table II-1-1 List of ore deposits and showings in the survey area (6)

L-48-B
A U

No	Dep. No	Ref.	Locat	Author	Year	Reg. No	Assay	Geology & occurrence
1	3	*13	1-3	И Н В No. 3676	1980	3676	Au:0.2-7g/t, Ag:1-7g/t, Pb:32x(max)	Quartz vein(L:10-150m, W:0.1-2.5m) in granite and sandstone
2	4	*14	1-3	И Н В No. 3676	1980	3676	Au:1-5g/t, Pb:0.1x, Zn:0.1x, Cu:0.02x	Contact zone between graywacke(E. Permian) and granite
3	5	*15	1-3	И Н В No. 3676	1980	3676	Au:0.1-5g/t, Pb:2x, Zn:1x(max), Cu:0.02x	Quartz vein in sandstone
4	9	*17	1-3	И Н В No. 3676	1980	3912	Au:1g/t, Ag:3g/t, Pb:0.5x, Mo:0.001x	Ten quartz veins(L:10-50m, W:15m max) in conglomerate
5	13	147	1-1	Т О Г Т О Х	1986	3912	No description	Geochemical anomaly in sediments(4 samples)
6	20	147	1-3	И Н В No. 3676	1983	3912	Au:0.7g/t, Ag:0.3g/t	Quartz vein(L:100m, W:70m)
7	21	147	1-1	Т О Г Т О Х	1984	3912	Au:3g/t	Geochemical anomaly in faults zone in metamorphic rock
8	46	148	1-1	Т О Г Т О Х	1986	3912	Au:5 pcs. Area:16km ²	Geochemical anomaly of basalt and sedimentary rock(Cretaceous)
9	25	148	1-3	З а б о т к и н	1984	3676	Au:0.1g/t	Quartz vein(L:10-100m, W:0.2-2m)
10	161	148	1-3	З а б о т к и н	1983	3676	Au:0.3g/t	Quartz vein(L:150m, W:1m)
11	193	148	1-3	З а б о т к и н	1983	3676	Au:0.3g/t	Quartz vein(L:100m, W:1m)
12	164	*109	1-3	И Н В No. 3676	1979-82	3676	Au:0.1-50g/t, Ag:0.15-1.8g/t, Zn:0.15x	Quartz vein(L:5-46m, W:0.1-0.5m) in tuff, Ss, siltstone, mudstone
13	165	*110	1-3	И Н В No. 3676	1979-82	3676	Au:0.1-10g/t, Ag:0.1-1g/t, Zn:0.15x	Quartz vein in slate and volcanic rock
14	167	*112	1-3	И Н В No. 3676	1979-82	3676	Au:0.1-50g/t, Ag:0.1-1g/t, Pb:0.03x	Quartz vein(L:10-40m, W:0.1-0.5m) in Ss, siltstone, mudstone
15	171	146	1-3	И Н В No. 3676	1983	3676	Au:2g/t, Ag:0.3g/t	Quartz-tourmaline vein(L:25m, W:0.6m)
16	172	149	1-3	З а б о т к и н	1982	3676	Au:1-6 pcs. Area:20km ²	Volcanic rock(Devonian)
17	175	149	1-3	З а б о т к и н	1982	3676	Au:1-6 pcs. Area:8km ²	Geochemical anomaly(areas:8km ²) by quartz vein
18	177	*116	1-3	И Н В No. 3676	1979-82	3676	Au:0.3-20g/t, Ag:0.7g/t, Pb, As:0.1x	Quartz vein(L:3-40m, W:0.1-2m) in diabase(N. Devonian)
19	179	149	1-3	З а б о т к и н	1982	3676	Au:1-3 pcs. Area:12km ²	Geochemical anomaly(areas:12km ²) by quartz vein
20	181	146	1-3	З а б о т к и н	1983	3676	Au:0.3g/t	Stockwork of quartz vein(L:300m, W:100m)
21	186	146	1-3	З а б о т к и н	1983	3676	Au:0.5g/t	Zone(L:1 km, W:50m) of quartz vein(L:100m, W:5m)
22	201	146	1-3	З а б о т к и н	1983	3676	Au:0.2g/t	Oxide Fe zone(L:200m, W:50m)
23	204	146	1-1	Т О Г Т О Х	1986	3912	No description	Geochemical anomaly (area:6km ²)

A G

No	Dep. No	Ref.	Locat	Author	Year	Reg. No	Assay	Geology & occurrence
1	6	141	1-3	З а б о т к и н	1983	3676	Ag:0.5g/t	Zone(200x20m) of quartz vein(W:5cm)
2	11	*18	1-1	Т О Г Т О Х	1986	3912	Au:50g/t, W:0.05x	Quartz vein(W:0.3-1.5m) in granite
3	16	141	1-3	З а б о т к и н	1983	3676	Ag:0.1-0.7g/t, Au:0.1g/t	Quartz vein(L:15m, W:0.3m)
4	73	143	1-3	З а б о т к и н	1983	3676	Ag:4g/t	Mineralized zone bearing malachite(areas:15x5m)
5	74	143	1-3	З а б о т к и н	1983	3676	Ag:10g/t	Zone(areas:50x10m) of quartz vein(W:5cm)
6	83	143	1-3	З а б о т к и н	1983	3676	Ag:0.5-50g/t	Quartz vein(L:10-30m, W:0.1-0.3m)
7	117	143	1-3	З а б о т к и н	1983	3676	Ag:0.5-3.5g/t, Pb:0.32x	Quartz vein(L:10-200m, W:0.5-2.5m) in granite(N. Devonian)
8	120	*88	1-3	И Н В No. 3676	1981	3576	Ag:0.5-3.5g/t, Bi:0.002x, Zn:0.01x	Quartz vein(L:400m, W:0.05-0.6m) in granite
9	184	*121	1-3	И Н В No. 3676	1979-82	3676	Ag:10-30g/t, Bi:0.002x, Zn:0.01x	Quartz vein(L:400m, W:0.05-0.6m) in granite

C U

No	Dep. No	Ref.	Locat	Author	Year	Reg. No	Assay	Geology & occurrence
1	10	147	1-1	Т О Г Т О Х	1984	3912	Cu:0.005x	Zone(areas:50x10m) of quartz vein(W:5cm)
2	12	*19	1-3	И Н В No. 3676	1978-82	3676	Cu:1-3x, Ag:30g/t, Zn:0.03x	Quartz vein(W:0.3-1.5m) in granite
3	14	*20	1-2	Т О Г Т О Х	1984	3912	Cu:1.03x, Zn:0.01x	Quartz vein(L:15m, W:0.3m)
4	15	*21	1-3	И Н В No. 2574	1984	2574	Cu:0.02-1.83x, Mo:0.002x	Mineralized zone bearing malachite(areas:15x5m)
5	25	*26	1-3	О т к р ы т о	1985	3676	Cu:0.02x max, Mo:0.02x max, Co:0.006x	Mineralized zone bearing malachite
6	30	142	1-3	З а б о т к и н	1983	3676	Cu:0.1-1x, Zn:0.1x, Pb:0.3x	Mineralized zone bearing malachite
7	31	*28	1-1	И Н В No. 3912	1985	3912	Cu:1-8x, Zn:0.01x, Ag:15g/t	Mineralized zone bearing malachite
8	100	*75	1-2	О т к р ы т о	1985	3912	Cu:10x, Pb:0.01x, Zn:0.5x	Mineralized zone(L:500m, W:10-15m) bearing malachite
9	102	143	1-2	Т О Г Т О Х	1984	3912	Cu:6.7x, Au:0.15g/t, Ag:100g/t	Mineralized zone(L:500m, W:10-15m) bearing malachite

Table II-1-1 List of ore deposits and showings in the survey area (7)

No	Dep. No	Ref.	Locat	Author	Year	Reg. No	Assay	Geology & occurrence
10	104	78	I-1	ОТКРЫТО	1971	1977	Cu:2.4%, No:0.02%max	
11	148	145	I-1	ОТКРЫТО	1971	1977	Cu:0.5%, Co:0.05%	Quartz vein in gabbro(dyke)
12	155	145	I-1	ОТКРЫТО	1971	1977		Silicified zone bearing malachite
13	156	145	I-3	ЗАБОТКИН	1983	3676	Cu:1%, Ag:3g/t	Geochemical anomaly
14	168	148	I-2	ТОГТ ОХ	1986	3912		Quartz vein(58x1m) bearing malachite
15	182	120	I-3	ОБНАРУЖЕНО	1969	1989	Cu:0.01-0.05%, Pb:0.02%max,	Geochemical anomaly
16	183	146	I-3	ЗАБОТКИН	1983	3676	Cu:0.02 g/m ³	Quartz vein, geochemical anomaly
17	189	149	I-2	ТОГТ ОХ	1986	3912	Cu:0.05%	Quartz vein, geochemical anomaly
18	39	142	I-1	ТОГТ ОХ	1984	3912	Cu:0.1%	Quartz vein, geochemical anomaly
19	43	142	I-3	ЗАБОТКИН	1983	3676	Cu:0.02-0.1%, Pb:0.1%	Quartz vein, geochemical anomaly
20	47	97	I-3	ОТКРЫТО	1971	1977	Cu:0.8%max, Zn:0.01%	Quartz vein(L:200m, W:0.7-1.7m)
21	49	98	I-1	ОТКРЫТО	1971	1977	Cu:0.03%max, No:0.001%	Mineralized zone(L:100m, W:5-6m)
22	59	143	I-1	ТОГТ ОХ	1984	3912	Cu:0.2-1%, Pb:0.05%, Ag:15-20g/t	Geochemical anomaly
23	65	148	I-1	ТОГТ ОХ	1986	3912	Cu:0.005%	Geochemical anomaly
24	70	143	I-3	ЗАБОТКИН	1983	3676	Cu:0.1%, Ag:0.3%	Quartz vein, geochemical anomaly
25	85	143	I-2	ТОГТ ОХ	1984	3912	Cu:0.1%, Ag:0.3g/t	Mineralized zone(L:25-30m, W:0.5m)
26	91	143	I-3	ЗАБОТКИН	1983	3676	Cu:1%, Ag:10g/t	Mineralized zone(L:15m, W:5m)

Pb

No	Dep. No	Ref.	Locat	Author	Year	Reg. No	Assay	Geology & occurrence
1	7	141	I-3	СТЕПАНОВ	1968	1845	Cu:0.1%	Mineralized zone(1.5km ²)
2	114	95	I-2	ТОГТ ОХ	1984	3912	No description	
3	126	148	I-1	ТОГТ ОХ	1983	3912	Cu:1%, Pb:1%, Zn:0.15%	Fracture zone, geochemical anomaly
4	148	145	I-1	ТОГТ ОХ	1986	3912	Pb:0.07%	Silicified zone
5	178	146	I-3	ЗАБОТКИН	1984	3912	Pb:1%, Ag:150g/t	
					1983	3676	Pb:6.6%	

Zn

No	Dep. No	Ref.	Locat	Author	Year	Reg. No	Assay	Geology & occurrence
1	16	147	I-2	ТОГТ ОХ	1984	3912	Zn:0.01%	Geochemical anomaly
2	109	144	I-2	ТОГТ ОХ	1984	3912	Zn:1%, Pb:1%, Cu:0.3%, Ag:5g/t	Mineralized zone bearing hematite(are:150x10m)
3	115	96	I-2	ТОГТ ОХ	1984	3912	Zn:1%, Cu:0.81%max,	
4	122	148	I-1	ТОГТ ОХ	1986	3912	Zn:0.01%, Mo:tr, Cu:tr	
5	123	148	I-2	ТОГТ ОХ	1986	3912	Zn:0.015%, Mo:tr, Pb:tr	
6	154	149	I-1	ТОГТ ОХ	1986	3912	Zn:0.01%, Mo:tr	Fracture zone (Late Cambrian)

Table II-1-1 List of ore deposits and showings in the survey area (8)

K-48-A, B

No. Dep. No. Ref.		Locat.	Author	Year	Reg. No.	Assay	Geology & occurrence
1	5	1-1	Торгтох	1982-84	3912	Au: 0.01g/m ³	Placer gold in terrigenous sediment (L. Permian)
2	15	91	Торгтох	1986	3912	No description	Geochemical anomaly (area: 12.5 km ²)

No. Dep. No. Ref.		Locat.	Author	Year	Reg. No.	Assay	Geology & occurrence
1	4	92	Толвоненбэрг	1978		No description	
2	19	93	Лебедева	1931		Cu: 9.05%	
3	21	91	Торгтох	1986		Cu: 0.01-0.03%, No: 0.001%	Geochemical anomaly (area: 12.5 km ²)
4	67	92	Лукиянов	1949		Cu: 0.14-0.2%	
5	69	92	Шувалов	1993		No description	Malachite in mineralized zone (L. 50-78m)

No. Dep. No. Ref.		Locat.	Author	Year	Reg. No.	Assay	Geology & occurrence
1	68	63	Шевелев	1955	818	Pb: 0.72-13.8%	
2	78	65	Инь No. 641	1953	641	Pb: 0.32-0.62%	
3	71	66	Шевелев	1955	641	Pb: 0.03-0.14%	
4	72	67	Открьто	1953	646		
5	74	68	Инь No. 562, 818	1951	818	Pb: <26.37%, Ag: <206.6g/t, Cu: 0.17%	
6	75	70	Шевелев	1955	818	Pb: 0.5%	
7	76	71	Анхилув	1951	818	Pb: 1.42%	
8	78	72	Инь No. 818	1951	818	Pb: 0.3%	
9	80	73	Инь No. 818, 562	1953-55	818	Pb: 0.87%	
10	81	74	Инь No. 646	1953	646	Pb: 0.27-1.12%	
11	84	79	Открьто	1956	1928	Pb: 0.18-5.18%	
12	85	80	Инь No. 207, 895	1954		Pb: 0.1%	
13	89	82	Инь No. 168, 646	1953			
14	98	83	Инь No. 818	1951			
15	91	84	Открьто	1978	1928	Pb: 0.001-0.1%, Zn: 0.02% (max)	

Table II-1-1 List of ore deposits and showings in the survey area (9)

L-48-Г
Ау

No	Dep. No	Ref.	Local	A u t h o r	Year	Reg. No	A. S. S. S. Y	G e o l o g y & o c c r e n c e
1	36	185	1-3	З а б о т к и н	1993	3676	Au: 0.19g/t, Ag: 0.2-7g/t	12 samples from parallel quartz veins
2	111	-88	1-2	З а б о т к и н	1993	3676	Au: 0.1-0.4g/t, Ag: 40g/t, Pb, Zn: 0.3%	Fracture zone in granoporphry (Peraian)
3	154	185	1-2	С т е п а н о в	1978	1845	Au: 0.19g/t, Ag: 4.5g/t, Cu: 0.01-0.1%	Quartz vein in faults in limestone (Proterozoic)
4	186	201	1-3	No description		3672	Au: 0.29g/t, Ag: 50g/t, Mn: 0.1%, Pb: 0.3%	Metasomatic body (L: 1km, W: 300m) of volcanic rock
5	213	202	1-3	No description			Au: 0.3g/t, Cr: 0.02%, P: 0.1%	Olivinite body (L: 500m, W: 300m) in shale and limestone
6	225	141	1-2	No description		3676	Au: 0.02g/t, Co: 0.03, Zn: 0.07%	Quartz vein in acidic rock (duke, E. Proterozoic)
7	229	203	1-1	No description		3676	Au: 0.2g/t, Ag: 0.5g/t	Fracture zone in acidic volcanic rock (Mesozoic)
8	233	203	1-2	No description		3676	Au: 0.7g/t, Ag: 7.3g/t	Two samples from quartz vein bearing malachite, azurite, limonate
9	235	204	1-2	No description		3676	Au: 0.4g/t, Ag: 5.4g/t	Quartz vein (L: 35m, W: 0.5m)
10	236	204	1-3	No description		3676	Au: 0.1g/t, Cr: 0.02%, No: 0.002%	One sample from stockwork (L: 300m, W: 60m)
11	241	204	1-1	No description		3676	Au: 0.1g/t, Ag: 2.3g/t, Ca: 0.03-0.06%	Quartz vein in volcanic rock
12	247	204	1-1	No description		3676	Au: 0.4g/t, Ag: 3.2g/t, Cr: 0.1-0.7%	One sample from silicified zone (L: 400m, W: 20m)
13	253	205	1-2	Г о л ь д е н 6 е р	1974-77	2724	Au: 0.09g/t, Ag: 2g/t, Zn: 0.01-0.04%	4 samples from quartz vein (L: 50m, W: 0.5m)
14	256	205	1-1	Г о л ь д е н 6 е р	1974-77	2724	Au: 0.1-0.5g/t, Ag: 0.8g/t, Pb: 0.04%	Quartz vein in contact of granite and Ss (E. Devonian)
15	265	206	1-2	Г о л ь д е н 6 е р	1974-77	2724	Au: 0.5g/t, Ag: 3g/t, Pb: 0.08-0.25%	2 samples from quartz vein (L: 1km, W: 100m)
16	267	*156	-2	No. 336.1587	1961-62		Au: 0.4g/t, Cu: 0.01%	Quartz vein (L: 30m, W: 1m) in shale (E. Devonian)
17	268	*157	-2	Г о л ь д е н 6 е р	1974-77	2724	Au: 4g/t	Quartz vein in Ss and schist
18	270	207	1-1	Г о л ь д е н 6 е р	1974-77	2724	Au: 0.26g/t	Two samples from quartz vein
19	273	224	1-1	Г о л ь д е н 6 е р	1974-77	2724	Au: 0.2-0.35g/t	Quartz vein in Ss and shale (Devonian)
20	277	207	1-1	Г о л ь д е н 6 е р	1974-77	2724	Au: 0.2g/t	Quartz vein in Ss, tuff, dacite and mudstone
21	275	224	1-1	Г о л ь д е н 6 е р	1974-77	2724	Au: 0.2g/t	Stockwork of quartz vein (W: 0.2m), geochemical anomaly
22	276	207	1-1	Г о л ь д е н 6 е р	1974-77	2724	Au: 0.2-0.35g/t	Contact of diabase (N. Devonian) and sandstone
23	277	207	1-1	Г о л ь д е н 6 е р	1974-77	2724	Au: 0.25-5g/t, Ag: 1.5g/t, No: 0.06%	Quartz vein (L: 50-200m, W: 0.2-1.25m) in Ss and shist
24	279	*161	-2	Г о л ь д е н 6 е р	1974-77	2724	Au: 0.5g/t	Fracture zone in meta-diabase
25	280	225	1-1	Г о л ь д е н 6 е р	1974-77	2724	Au: 0.2g/t, Ag: 0.2g/t, Pb: 0.12%	Quartz vein in rhyolite (N. Devonian), geochemical anomaly
26	285	208	1-1	Г о л ь д е н 6 е р	1974-77	2724	Au: 4-8.7g/t, Ag: 2.3-5g/t	Two samples from contact of granite and sedimentary rock
27	287	208	1-1	Г о л ь д е н 6 е р	1974-77	2724	1-18 pcs of gold grain	Geochemical anomaly in gabbro and diabase
28	296	209	1-1	Г о л ь д е н 6 е р	1974-77	2724	Au: 0.1-0.2g/t	Silicified and carbonated zone bearing py
29	296	209	1-1	Г о л ь д е н 6 е р	1974-77	2724	Au: 0.3-0.4g/t	Brecciated and silicified zone in basic rock
30	308	210	-2	Г о л ь д е н 6 е р	1974-77	2724	Au: 0.24-2.3g/t	Quartz vein in great faults zone
31	330	*178	-2	Г о л ь д е н 6 е р	1974-77	2724	Au: 1.5-5g/t	Quartz vein in fracture zone of Ss
32	345	226	-2	Г о л ь д е н 6 е р	1974-77	2724	Au: 2-5 pcs.	Geochemical anomaly (2 km ²), 2-5 pcs of gold in 3 samples
33	349	213	-2	Г о л ь д е н 6 е р	1974-77	2648	Gold grain size: 0.1-0.4 м/м	Quartz vein in ultrabasic rock in Manlai fault zone
34	369	214	-2	Г о л ь д е н 6 е р	1974-77	2724	Au: 4g/t, Ag: 10g/t	Quartz vein bearing tourmaline in Silicified rock
35	376	193	-2	Г о л ь д е н 6 е р	1974-77	2724	Au: 2.7g/t, Cu: 1%	Quartz vein in contact of granodiorite and porphyry

Table II-1-1 List of ore deposits and showings in the survey area (10)

A B			Географическое			
No. Dep. No.	Ref.	Local	Аутхор	Year	Reg. No.	Ассы
1	4	178	Заботкин	1983	3676	Ag: 0.5-30g/t, Au: 0.1g/t, Cu: 0.1%
2	19	198	Заботкин	1983	3676	Ag: 0.1-10g/t, As: 1%
3	27	198	Заботкин	1983	3676	Ag: 0.1-6g/t, Au: 0.1g/t, Mo: 0.01%
4	81	199	Заботкин	1983	3676	Ag: 0.3-50g/t, Au: 0.05g/t
5	107	200	Заботкин	1983	3676	Ag: 1-5g/t, Au: 0.05g/t, Pb, Zn: 0.04%
6	167	201	Заботкин	1983	3676	Ag: 1g/t, Zn: 0.02%
7	234	203	Заботкин	1983	3676	Ag: 3-7g/t
8	246	204	Заботкин	1983	3676	Ag: 1g/t, Cu: 0.03%
9	347	212	Шабаловскнн	2648		Ag: 2-4g/t
10	359	214	Гольденберг	1974-77	2724	Ag: 12g/t
11	379	215	Гольденберг	1974-77	2724	Ag: 2-5g/t
C U			Географическое			
No. Dep. No.	Ref.	Local	Аутхор	Year	Reg. No.	Ассы
1	156	*187				
2	219	*138				
3	221	*140				
4	249	284	№ 3676 Заботкин	1983		
5	252	285	Гольденберг	1974-77	2724	Cu: 0.1%
6	261	286	Гольденберг	1974-77	2724	
7	263	286	Гольденберг	1974-77	2724	
8	269	*159				
9	278	287	Гольденберг	1974-77	2724	Cu: 0.2%, Ag: 0.8g/t, Pb: 0.01%
10	291	287	Гольденберг	1974-77	2724	Cu: 0.1%
11	283	*162				
12	284	*163				
13	286	289	Шабаловскнн	2648		
14	289	*165				
15	293	*167				
16	287	*169				
17	305	289	Гольденберг	1974-77	2724	Cu: 0.03-0.08%, Ag: 0.1-0.15%
18	312	210	Гольденберг	1974-77	2724	
19	313	210	Гольденберг	1974-77	2724	Cu: 0.1-1%, Ag: 0.2-3g/t
20	314	225	Гольденберг	1974-77	2724	Cu: 0.008-0.03%
21	316	210	Гольденберг	1974-77	2724	
22	318	211	Гольденберг	1974-77	2724	Cu: 0.08%, Co: 0.02%
23	319	211	Гольденберг	1974-77	2724	
24	320	211	Гольденберг	1974-77	2724	Cu: 0.1-0.8%, Zn: 0.02-0.08%, Mo: 0.003%
25	322	*173				
26	324	211	Гольденберг	1974-77	2724	Cu: 0.05%
27	325	226	Гольденберг	1974-77	2724	Cu: 0.01-0.2%
28	327	*176				
29	332	*179				
30	333	*180				
31	334	226	Адья	1986		Cu: 0.05-0.8%, Co: 0.008-0.03%
32	336	212	Гольденберг	1974-77	2724	Cu: 0.4-1%, Ag: 0.3g/t, As: 0.01%
33	339	212	Шабаловскнн			
34	340	*182				
35	341	*183				

Table П-1-1 List of ore deposits and showings in the survey area (1.1)

No	Dep. No	Ref.	Locat	A u t h o r	Year	Reg. No	A s s a y	G e o l o g y & o c c u r r e n c e
36	342	212	Ш-3	Шабаловский		2648	Cu: 0.1%, Ag: 0.15g/t, As: 0.008%	
37	343	*184	Ш-3					
38	348	*185	Ш-3					
39	350	*186	Ш-3					
40	353	*187	Ш-2					
41	355	213	Ш-1	Шабаловский		2648	Cu: 0.2%	
42	361	214	Ш-1	Гольденберг	1974-77	2724	Cu: 0.03%	
43	362	214	Ш-1	Шабаловский		2648		
44	365	*188	Ш-2					
45	366	227	Ш-2					
46	368	*189	Ш-1					
47	370	*190	Ш-2					
48	371	215	Ш-3	Гольденберг	1974-77	2724	Cu: 0.05%	
49	373	215	Ш-3	Гольденберг	1974-77	2724	Cu: 0.3%	
50	374	*191	Ш-2					
51	375	*192	Ш-2					
52	377	*194	Ш-2					
53	378	*195	Ш-1					
54	380	215	Ш-1	Гольденберг	1974-77	2724	Cu: 0.08%	
55	317	*172	Ш-3					

No	Dep. No	Ref.	Locat	A u t h o r	Year	Reg. No	A s s a y	G e o l o g y & o c c u r r e n c e
1	95	219	Ш-2					
2	120	220	Ш-1					Geochemical anomaly
3	121	220	Ш-2					
4	127	220	Ш-2					Geochemical anomaly
5	130	220	Ш-1					Geochemical anomaly
6	131	220	Ш-1					
7	132	220	Ш-1					Geochemical anomaly
8	149	222	Ш-2					Geochemical anomaly
9	155	186	Ш-2					Geochemical anomaly
10	160	222	Ш-2					Geochemical anomaly
11	161	*109	Ш-1					Geochemical anomaly
12	168	*114	Ш-2					Geochemical anomaly
13	190	223	Ш-1					Geochemical anomaly
14	193	223	Ш-1					Geochemical anomaly
15	207	224	Ш-2	Заботкин	1983	3676		
16	222	203	Ш-2					
17	251	*205	Ш-1	Гольденберг	1974-77	2724	Pb: 0.03-0.2%, Zn: 0.04-0.06%	
18	259	224	Ш-1	Гольденберг	1974-77	2724		
19	266	*155	Ш-2					
20	271	*207	Ш-1	Гольденберг	1974-77	2724	Pb: 0.02%	
21	294	208	Ш-2	Гольденберг	1974-77	2724	Pb: 0.1-0.3%, Cu: 0.01-0.1%	
22	354	227	Ш-2					
23	364	*214	Ш-2	Гольденберг	1974-77	2724	Pb: 0.06-0.12%, Ag: 0.15-0.6g/t	
24	372	*215	Ш-1	Гольденберг	1974-77	2724	Pb: 0.06-0.2%, Ag: 0.15-0.5g/t	

Table II-1-1 List of ore deposits and showings in the survey area (12)

No	Dep. No.	Ref.	Locat.	A u t h o r	Year	Reg. No.	A s s a y	G e o l o g y & o c c u r r e n c e
1	212	202	II-2				Zn: 2%, No: 0.01%	
2	352	213	II-2	Ш-а Б а. П О Б. С К Н Н		2648	Zn: 0.1%, Pb: 0.05%, As: 0.15g/t	
3	133	220	II-1	Э Н Н К О Б	1968-69	1858		Geochemical anomaly

Table II-1-1 List of ore deposits and showings in the survey area (13)

К-48-Б, Г

Ау

No	Dep.No	Ref.	Locat	Autho.r	Year	Reg.No	Assay	Geology & occurrence
1	3	*10	I-1	Гольденберг	1974-77	2724	Au:5g/t, Ag:5g/t, Cu:0.2%	
2	9	*76	I-3				1-28 pos of gold grain	
3	35	73	I-2	Гольденберг		1879	Au:0.12g/t, Ag:1g/t	

Аг

No	Dep.No	Ref.	Locat	Autho.r	Year	Reg.No	Assay	Geology & occurrence
1	42	73	I-2	Гольденберг		1978	Ag:1g/t(max)	
2	38	73	I-1	Гольденберг		1879	Ag:2.5g/t(max), Pb:0.01%, Cu:0.02%	

Сu

No	Dep.No	Ref.	Locat	Autho.r	Year	Reg.No	Assay	Geology & occurrence
1	1	9	I-1					
2	5	-12	I-3					
3	7	74	I-3					
4	11	74	I-3					
5	12	74	I-3					
6	13	*15	I-3	Хован		3695	Cu:0.5-1%, Mo:0.2%, Ag:10g/t, Pb:1%	
7	26	75	I-2					
8	29	74	I-1					
9	30	74	I-2					
10	36	*28	I-1	Хован	1983	3695	Cu:0.005-0.015%	
11	40	76	I-1					
12	44	*26	I-3	Худзрбат	1974-77	3695	Cu:<0.11%, Zn:1.11%, Ag:0.6-0.8g/t	
13	51	75	I-1	Худзрбат		3319	Cu:0.01-0.02%, Mo:0.003%	Geochemical anomaly
14	53	*32	I-2					
15	54	73	I-1	Лукьянов		526		
16	55	*33	I-1	Шабеловский	1978	2648	Cu:0.2%, Mo:0.003%	
17	56	73	I-3	Шабеловский	1978	2648		
18	67	73	I-3	Шабеловский	1978	2648		
19	69	73	I-3	Шабеловский	1978	2648		
20	70	*44	I-2	Хован	1978	3695	Cu:1%, Ag:30g/t, Zn:0.15%, Mo:0.015%	
21	71	*46	I-3	Худзрбат	1974-77	3319		
22	72	73	I-2	Шабеловский	1978	2648		
23	73	73	I-2	Шабеловский	1978	2648		
24	77	*49	I-2	Хован	1974-77	3685	Cu:0.2-0.3%, Pb:0.003-0.02%	
25	79	*52	I-2	Петровиц	1958	1371		
26	84	*57	I-3	Петровиц	1958	1371	Cu:0.1%, Pb:0.01-0.03%	
27	93	74	I-1	Лукьянов		526		
28	97	74	IV-1	Худзрбат		1118		

Рb

No	Dep.No	Ref.	Locat	Autho.r	Year	Reg.No	Assay	Geology & occurrence
1	2	72	I-1	Гольденберг		1979		
2	10	75	I-3					Geochemical anomaly
3	76	76	II-3					
4	85	*58	II-1					
5	86	*59	II-1					
6	96	*69	IV-1	Худзрбат	1956	805		

Table II-1-1 List of ore deposits and showings in the survey area (14)

L-49-B

No	Dep.No	Ref.	Locat	Author	Year	Reg.No	Assay	Geology & occurrence
1	275	278	-1	Адыяа	1971	1986	Ag:0.001%	Geochemical anomaly zone (area: 7km ²)
2	392	264	-1	Санжаадорж	1983		Ag: grain size 0.1-0.2m/m. Mn: <0.3%	

Cu

No	Dep.No	Ref.	Locat	Author	Year	Reg.No	Assay	Geology & occurrence
1	255	-229	-1	Адыяа	1971	1986	Cu: 0.002-0.003%	
2	278	-240	-1	Адыяа	1971	1986	Cu: 0.03-0.3%; Pb: <0.04%; Zn: <0.04%	
3	272	-242	-1	Адыяа	1971	1986	Cu: 1%; Zn: 0.3%; Co: 0.1%	
4	273	-243	-1	Адыяа	1972	1984	Cu: 0.008-0.06%	
5	274	278	-1	Адыяа	1971	1986		
6	276	278	-1	Адыяа	1971	1986	Cu: 3-5%; Zn: 0.00%; Ag: 0.001%	
7	279	-244	-1	Бижарн	1983	3804	Cu: 0.1-1.16%	
8	288	279	-1	Санжаадорж	1974	2113	Cu: 0.01-0.03%	
9	282	-246	-1	Шархуу	1980	3022	Cu: 0.01%	
10	285	-248	-1	Шархуу	1980	3022	Cu: 0.05-0.08%	
11	286	279	-1	Адыяа	1971	1986	Cu: 0.9-1.3%	
12	287	-249	-1	Шархуу	1980	3022	Cu: 0.32-0.65%; Pb: 0.53%	
13	288	-250	-1	Адыяа	1971	1986		

Zn

No	Dep.No	Ref.	Locat	Author	Year	Reg.No	Assay	Geology & occurrence
1	277	278	-1	Адыяа	1971	1986	Zn: 0.1%; Cu: 3-5%; Ag: 0.001%	

Table II-1-1 List of ore deposits and showings in the survey area (15)

К-49-А. Б.
C u

No	Dep. No	Ref.	Locat	Author	Year	Reg. No	Assay	Geology & occurrence
1	4	62	I-1	Лэндзвчулуун	1977	2347	Cu: 0.01%	
2	5	*11	I-1	Гомбленберг	1978	2347.2	Cu: 0.4%, Ag: 0.3g/t	
3	6	62	I-1	Дашчэрэн	1972	1948		
4	7	62	I-1	Дашчэрэн	1972	1948		
5	8	*12	I-1	Дарвадорж	1977	2503	Cu: 0.39-0.54%, Zn: 0.1-3.67%	
6	9	*13	I-1	Дарвадорж	1977	1776.2	Cu: 0.03-0.27%	
7	10	*14	I-1	Дэнж-Аюуш	1988	2724.2	Cu: 0.61%, Mo: 0.026%, etc	
8	12	62	I-1	No. 1773.2538				
9	14	*19	I-1	Гольденберг	1978	2424		
10	16	*21	I-1	Гольденберг	1978	2424	Cu: 0.3-0.6%, Mo: 0.002-0.004%	
11	28	63	I-1	Казакон	1958	1340	Cu: 0.001%, Pb: 0.001%	
12	31	33	I-1					
13	52	53	I-1					

P. b

No	Dep. No	Ref.	Locat	Author	Year	Reg. No	Assay	Geology & occurrence
1	277	281	I-1					
2	40	63	I-1					

Table II-1-2 List of collected existing data (1)

1. Geological surveys at a scale of 1 to 1,000,000 in the past

	Report No.	Author	Year	Remarks
1	1371	Петровач. Ю. Я	1959	
2	1587	Хранов. А. А	1962	
3	1600	Логинов. Ю. М	1962	
4	1753, 1754	Уфаянд. А. К	1966	

2. Geological surveys at a scale of 1 to 500,000 in the past

	Report No.	Author	Year	Remarks
1	91, 92, 1024	В. В. Дедиков	1940	
2	439	В. С. Желубовский	1945	
3	996	З. А. Лебедева	1931	
4	1259	В. С. Волхонин	1952	
5	1281	Данилов	1953	
6	1317	А. А. Толмачевский	1960	
7	1371	Б. М. Казаков	1958	
8	1739	Д. Д. Сагадуев	1966	
9	1774	В. И. Васильев	1966	
10	1779	В. В. Махов	1967	
11	1858	А. П. Зинков	1969	
12	1957, 1958	Х. А. Боршева	1971	
13	1958	Н. А. Бочаров	1972	
14	1977	А. Ф. Бойшенко	1972	
15	2006	Ц. Ганбат	1971	
16	2007	А. Ф. Бойшенко	1974	
17	2017	Ю. М. Обьедков	1972	
18	2017	И. А. Тургинова	1974	
19	2079	А. Н. Степанов	1973	
20	2574	Е. Д. Аносова	1976	
21	3361	Е. Менхбат, Д. Жанчив	1980	
22	3431	Б. Дорлят	1982	

Table II-1-2 List of collected existing data (2)

3. Geological surveys at a scale of 1 to 200,000 in the past

	Report No.	Author	Year	Remarks
1	562	М. А. Аншилов	1951	
2	578	А. М. Тимофеев	1957	
3	642	Б. А. Шведлев	1954	Taking photo copy
4	646	Хубадтгов	1953	
5	805	Хубадтгов	1954	
6	810	Аншилов	1952	
7	815	Пономарева, Н. И	1954	
8	1199, 1714	Волхови	1951	
9	1293, 1842	Браташ, В. И	1953	
10	1303	Шингов		
11	1400	Кулеш	1959	
12	1712	А. Т. Баврикова	1954	
13	1844	Давидов	1952	
14	1906	Адьяа	1970	Taking photo copy
15	1924	С. Нацагдорж, Баатар	1970	
16	1948	Дашизрэн, Санжаадорж	1972	Taking photo copy
17	1949	Хаянхярваа	1977	
18	2724	Гольденберг	1978	Taking photo copy
19	3460	А. А. Толмачевский	1954	
20	3676	Заботкин	1983	Taking photo copy
21	3912	Тогтох	1986	Taking photo copy
22	4186	Раузер	1987	Taking photo copy
23	4276	Заботкин	1988	Taking photo copy
24	4377	Бемберее	1990	

4. Geological survey at a scale of 1 to 100,000 in the past

	Report No.	Author	Year	Remarks
1	1895	Д. Андреас	1968	

5. Geological surveys at a scale of 1 to 50,000 in the past

	Report No.	Author	Year	Remarks
1	641, 642	Шведлев	1954	
2	1195	Блохин	1951	
3	1773	Берман	1968	
4	2571	Г. Зяццццг	1977	
5	3022	И. Худзрбат	1980	
6	3190	Давидов	1955	
7	3366	Шархуу	1981	
8	3695	М. Хован	1981	Taking photo copy
9	3740	Хосбаяр	1984	
10	4544	Сухбат	1991	

Table II-1-2 List of collected existing data (3)

6. Evaluation of ore deposits

	Report No.	Author	Year	Remarks
1	2267	Шабаловский	1978	

7. Detail survey

	Report No.	Author	Year	Remarks
1	2772	Цэнд-Аюуш, П. Мянмар	1979	
2	3615	М. Хован, Грегус	1983	

8. Airborne magnetic surveys at a scale of 1 to 200,000 in the past

	Report No.	Author	Year	Remarks
1	1762	Бл. Менцвайг	1966	Taking photo copy
2	?		1963~1967	
3	3454	Исаев	1981	Taking photo copy
4	4354	Баяндорж	1990	Taking photo copy
5	4547	Баяндорж	1991	Taking photo copy

9. Ground Geophysical survey in the past

	Report No.	Author	Year	Remarks
1	2347	Дэндэвчулуун	1977	Taking photo copy
2	2591	Дэндэвчулуун	1978	Taking photo copy
3	2987	Дэндэвчулуун	1980	Taking photo copy
4	3614	Феш	1983	Taking photo copy

CHAPTER 2 SATELLITE IMAGE ANALYSIS

2-1 Treatment and Analysis of Satellite Images

2-1-1 Purpose

Treatment and analysis of satellite image was performed to understand lineament accompanying fault, folding and intrusion, and to select altered zone derived from mineralization, in the projected area for 2 years. Location of satellite images is shown in Fig. II-2-1 and the analyzed area of satellite images also is shown in Fig. II-2-2, and totally 33 scenes were treated and analyzed. To make sure, some of 33 scenes which are out of the projected area were treated equally as others.

2-1-2 Applied Data

After referring the acquired time by LANDSAT and the weather at that time, which CCT should be bought was decided. List of details regarding the bought CCT is shown in Table II-2-1 (List of Details of Applied Data).

2-1-3 Treatment and Analysis

One scene is usually composed of 3 CCT and necessary data of three bands (bands numbers; Nos.4, 5 & 7) were extracted to be 1 tape for each scenes.

At first, principal-component analysis which is one of multi-component analysis was carried out using data of 3 bands (bands numbers; Nos.4, 5 & 7) for every scenes. And then transference which is called decorrelation stretch was done. Secondary edge enhancement and contrast stretch were performed for every scenes, and then three colors (blue, green and red) were allotted to three bands (Nos.4, 5 and 7) respectively. Finally color positive films for every scenes whose scale was 1 to 1,000,000 were obtained and they were enlarged to scale of 1:200,000 to be utilized for geological interpretation. The analyzed mosaic image covering the whole area whose original scale was 1 to 1,000,000 is shown as Fig. II-2-3. And each analyzed color images also shown as Appendix 1 ~33 at the end of this report.

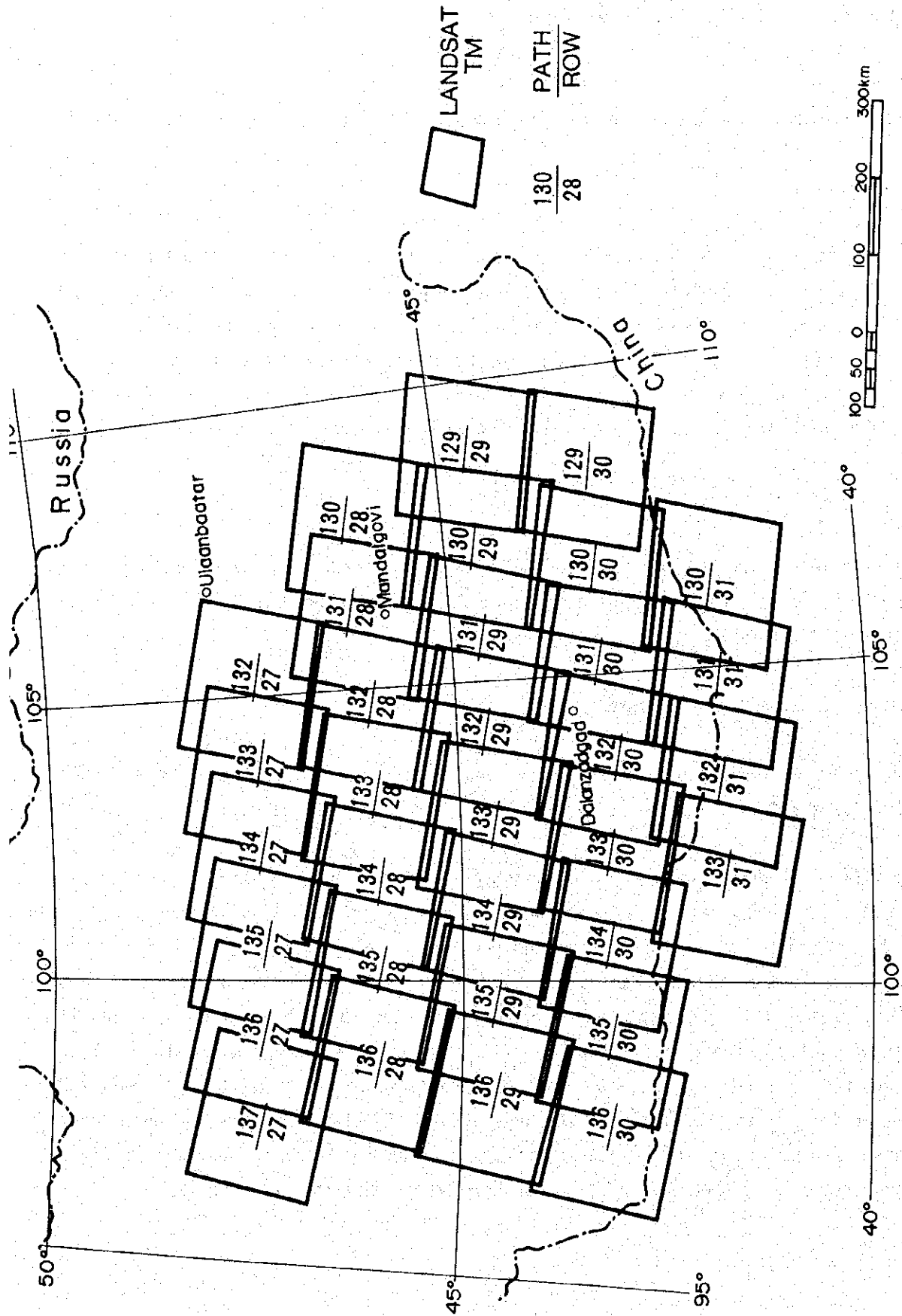


Fig. II-2-1 Location Map of Satellite image

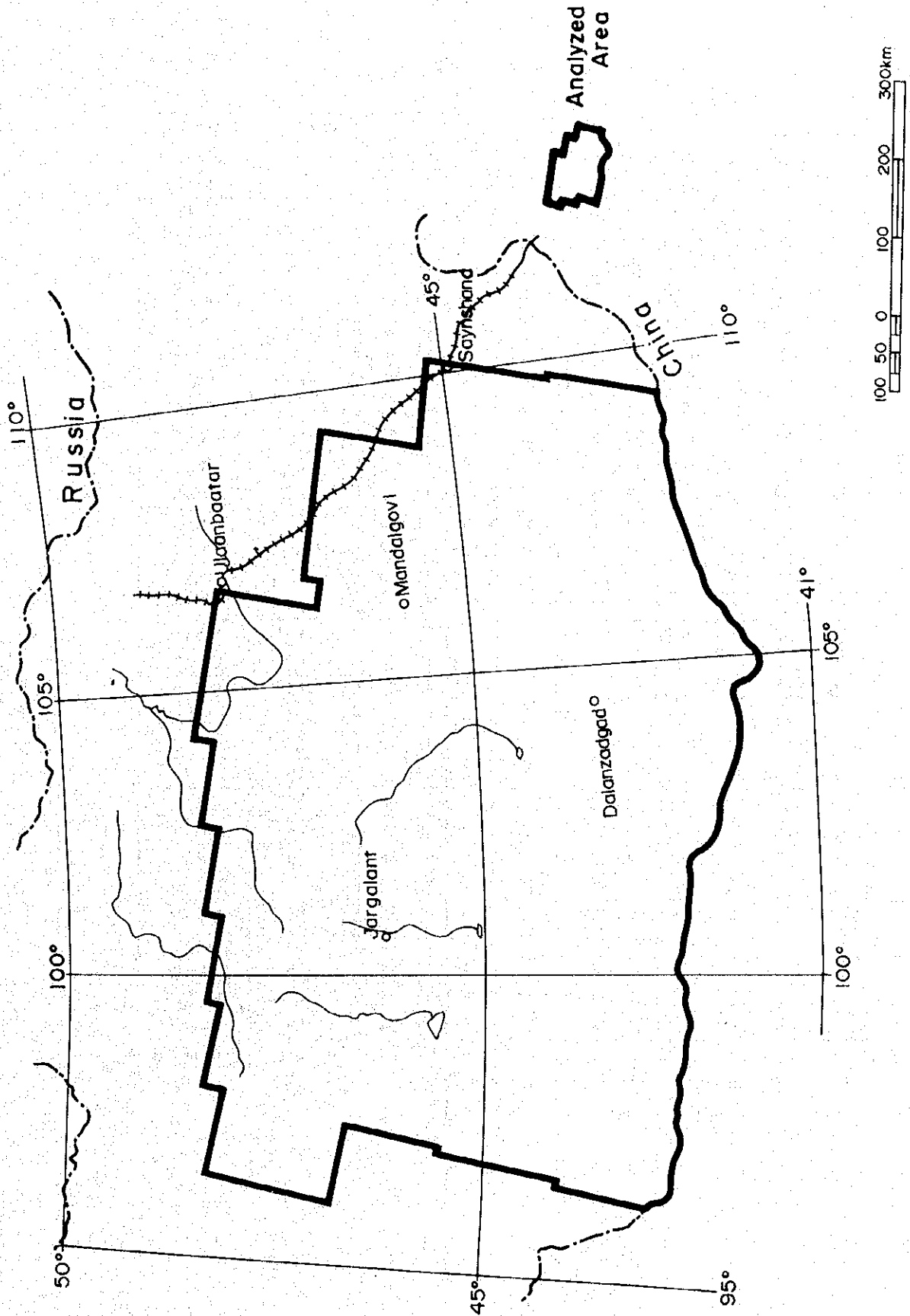


Fig. II-2-2 Analyzed Area by Statellite Image

Table II - 2 - 1 List of Details of Applied Data

No.	Path	Row	Date	CN	Satellite	Distributor
1	129	29	09/20/87	44° 36' 37" N, 108° 50' 21" E	L5	EOSAT
2	129	30	09/06/88	43 11 12 N, 108 20 35 E	L5	CHINA
3	130	28	10/10/89	46 02 11 N, 107 48 34 E	L4	EOSAT
4	130	29	09/03/90	44 37 40 N, 107 17 05 E	L5	EOSAT
5	130	30	12/18/88	43 11 56 N, 105 44 37 E	L5	CHINA
6	130	31	09/27/93	41 46 17 N, 106 19 52 E	L5	CHINA
7	131	28	09/10/90	46 02 36 N, 106 14 22 E	L5	EOSAT
8	131	29	09/10/90	44 37 22 N, 105 43 27 E	L5	EOSAT
9	131	30	09/10/90	43 11 31 N, 105 13 33 E	L5	EOSAT
10	131	31	09/20/88	41 46 34 N, 104 45 04 E	L5	EOSAT
11	132	28	09/17/90	46 02 35 N, 104 41 07 E	L5	EOSAT
12	132	29	09/17/90	44 37 21 N, 104 10 12 E	L5	EOSAT
13	132	30	09/17/90	43 11 29 N, 103 40 18 E	L5	EOSAT
14	132	31	09/17/90	41 46 33 N, 103 11 49 E	L5	EOSAT
15	132	27	09/17/90	47 27 16 N, 105 12 12 E	L5	EOSAT
16	133	27	09/08/90	47 27 13 N, 103 41 30 E	L5	EOSAT
17	133	28	09/08/90	46 02 06 N, 103 09 17 E	L5	EOSAT
18	133	29	10/02/90	44 37 40 N, 102 35 26 E	L4	EOSAT
19	133	30	10/18/93	43 10 20 N, 102 10 20 E	L5	CHINA
20	133	31	09/08/90	41 46 08 N, 101 40 02 E	L5	EOSAT
21	134	27	10/20/91	47 27 30 N, 102 10 00 E	L5	CHINA
22	134	28	25/08/94	46 01 51 N, 101 36 22 E	L5	CHINA
23	134	29	25/08/94	44 36 57 N, 101 05 39 E	L5	CHINA
24	134	30	10/06/92	43 11 00 N, 100 32 00 E	L5	CHINA
25	135	27	08/21/90	47 27 08 N, 100 36 08 E	L5	EOSAT
26	135	28	08/21/90	46 02 09 N, 100 03 56 E	L5	EOSAT
27	135	29	10/24/90	44 37 15 N, 99 31 30 E	L5	CHINA
28	135	30	10/24/90	43 12 30 N, 99 02 10 E	L5	CHINA
29	136	27	02/20/91	47 26 41 N, 99 07 08 E	L5	EOSAT
30	136	28	03/24/91	46 01 48 N, 98 33 22 E	L5	EOSAT
31	136	29	03/24/91	44 36 48 N, 98 02 24 E	L5	EOSAT
32	136	30	03/24/91	43 10 57 N, 97 32 20 E	L5	EOSAT
33	137	27	02/27/91	47 26 37 N, 97 34 36 E	L5	EOSAT

CN: Coordinate of Central Point in Each Scenes

TM Sensor were available for every scenes.

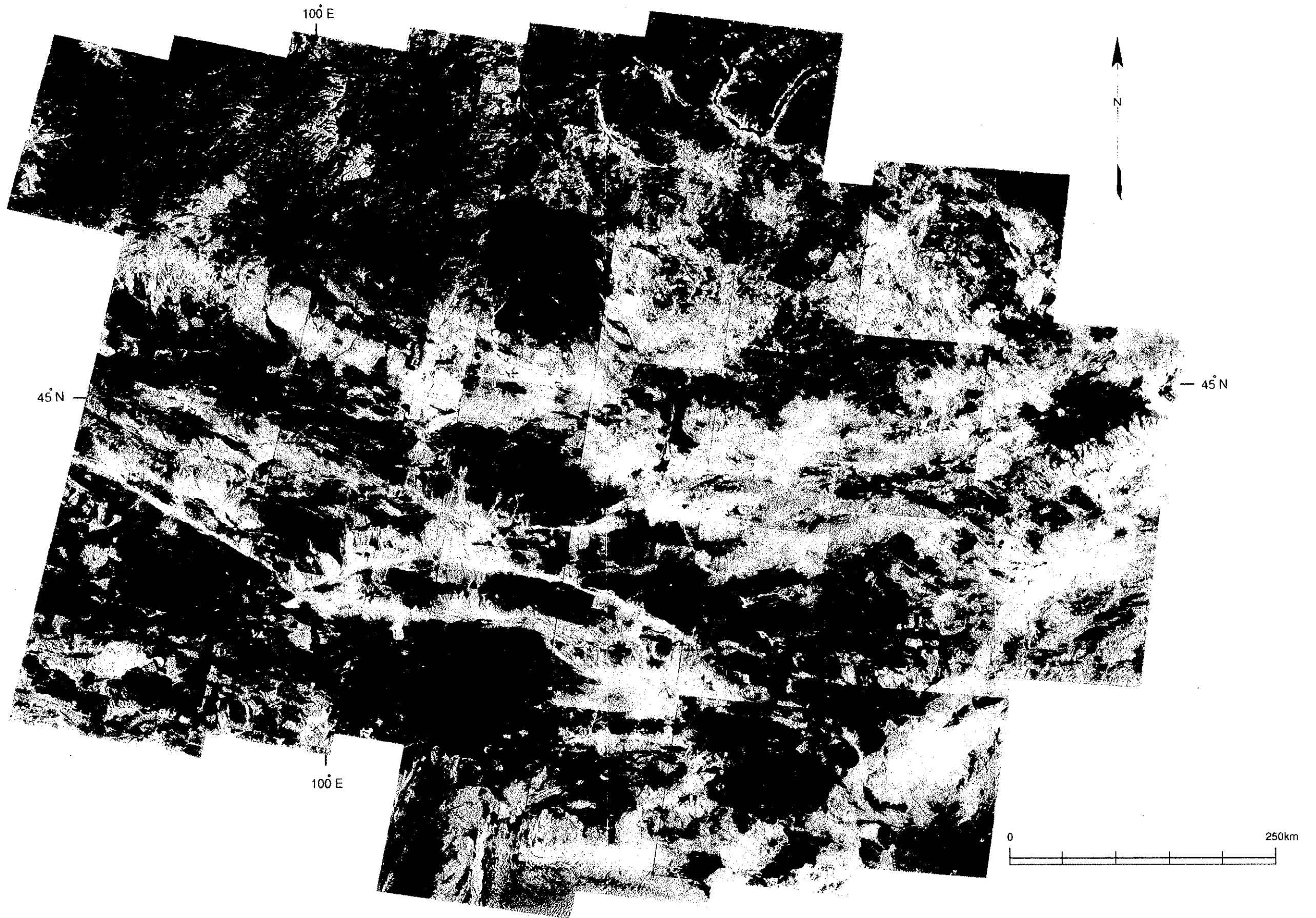


Fig. II - 2 - 3 Analyzed Mosaic Image of the Projected Area