

BLOCK NUMBER	BLOCK VOLUME (m <sup>3</sup> )	ILMENITE GRADE (kg/m <sup>3</sup> )	ZIRCON GRADE (kg/m <sup>3</sup> )
1	144,928	153.9	30.1
2	2,550	55.6	12.7
3	12,267	50.1	11.8
4	65,133	69.0	7.0
5	4,487,353	68.0	12.9
6	1,533	70.0	18.0
7	1,133	58.9	11.5
8	9,067	72.5	0.2
9	14,813	57.7	2.1
10	22,750	57.1	7.5
11	3,754	65.8	9.2
12	5,171	75.8	10.0
13	975	61.1	11.7
14	4,004	56.8	11.2
15	2,708	98.4	13.1
16	2,729	55.0	8.2
17	3,867	56.1	13.2
18	15,963	54.3	9.2
19	4,667	58.9	16.2
20	19,742	69.6	11.8
21	577,938	71.7	13.6
22	4,667	62.0	13.6
23	28,158	79.9	19.0
24	141,158	32.4	5.6
25	9,467	69.1	12.9
26	4,000	76.5	22.1
27	4,167	50.1	10.6
28	4,167	50.1	10.6
29	18,375	58.8	14.0
30	28,688	60.5	9.8
31	1,918,634	71.8	11.0
32	233,327	75.2	10.6
33	55,910	74.9	12.6
34	11,783	50.2	8.2
35	1,646,450	96.4	16.7
36	15,183	115.9	15.4
37	650	163.7	5.0
38	650	52.1	2.5
39	7,333	98.6	0.8
40	4,800	59.7	6.2
41	115,250	55.4	10.2
42	14,750	71.0	11.8
43	2,833	107.1	14.4
44	2,667	72.3	11.5
45	9,642	62.5	0.9
46	2,850	54.8	5.3
47	1,933	71.7	16.2
48	1,233	87.2	22.1
49	3,000	73.3	14.8
50	2,250	100.3	2.4
51	13,867	52.4	1.7
52	20,000	57.3	3.7
53	7,500	54.3	3.5
54	7,350	51.2	8.2
55	1,625	84.7	11.2
56	1,000	55.7	10.5
57	6,667	62.9	0.3
58	4,600	50.0	0.6
59	1,013	63.0	9.1
60	16,000	64.8	0.5
61	8,528	68.7	0.5
62	27,100	52.5	0.8
63	27,600	52.0	4.3
64	5,542	77.4	0.8
65	1,300	62.1	2.4
66	17,750	58.8	1.8
67	7,425	50.1	4.3
68	6,417	52.9	1.2
Grand Total	9,878,301	74.3	13.0

Fig.II-1-1 Ore Reserves Block of the Karatokel Deposit

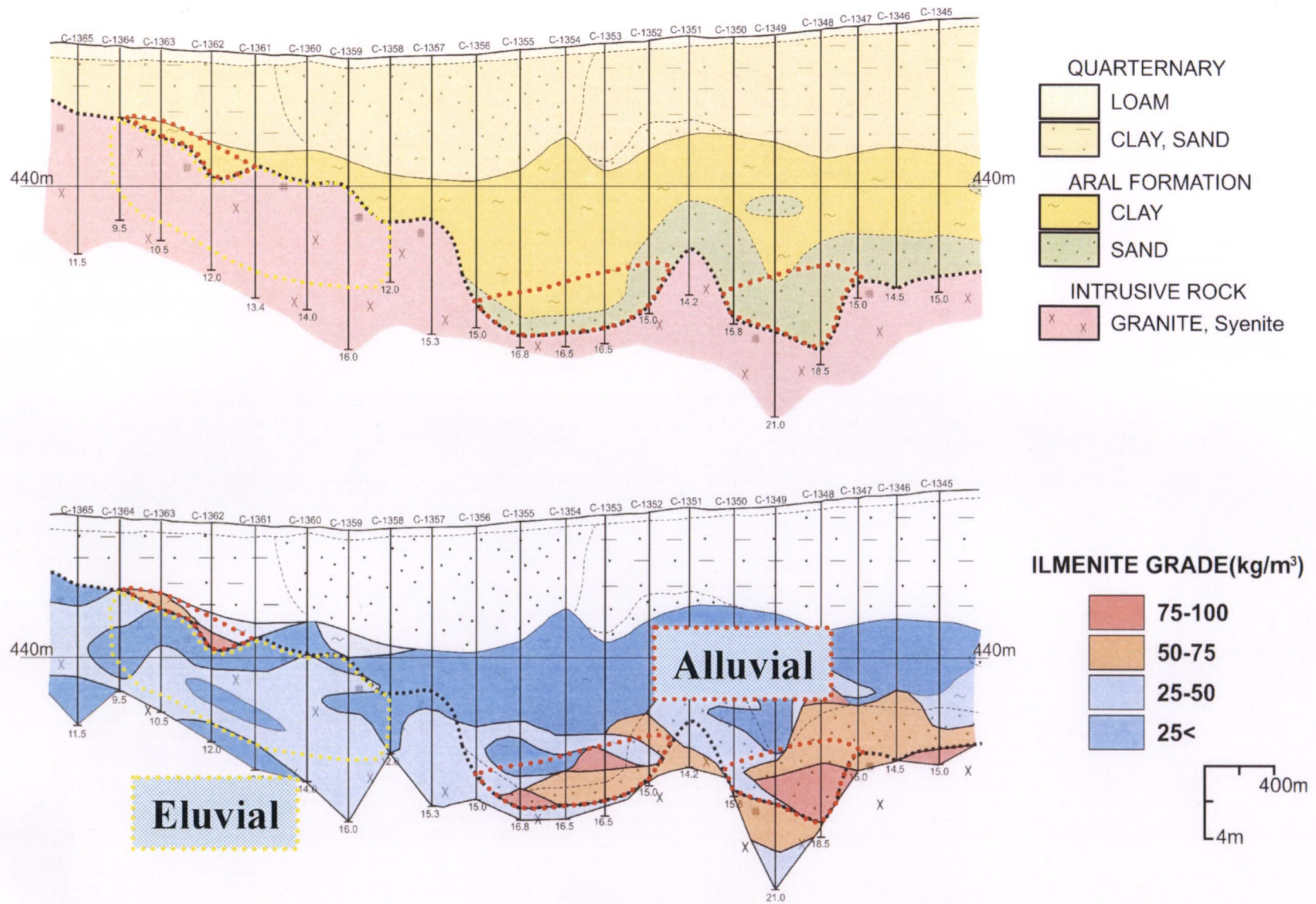


Fig.II-1-2 Geological Cross Section along profile No.42 of the Karaotkel deposit

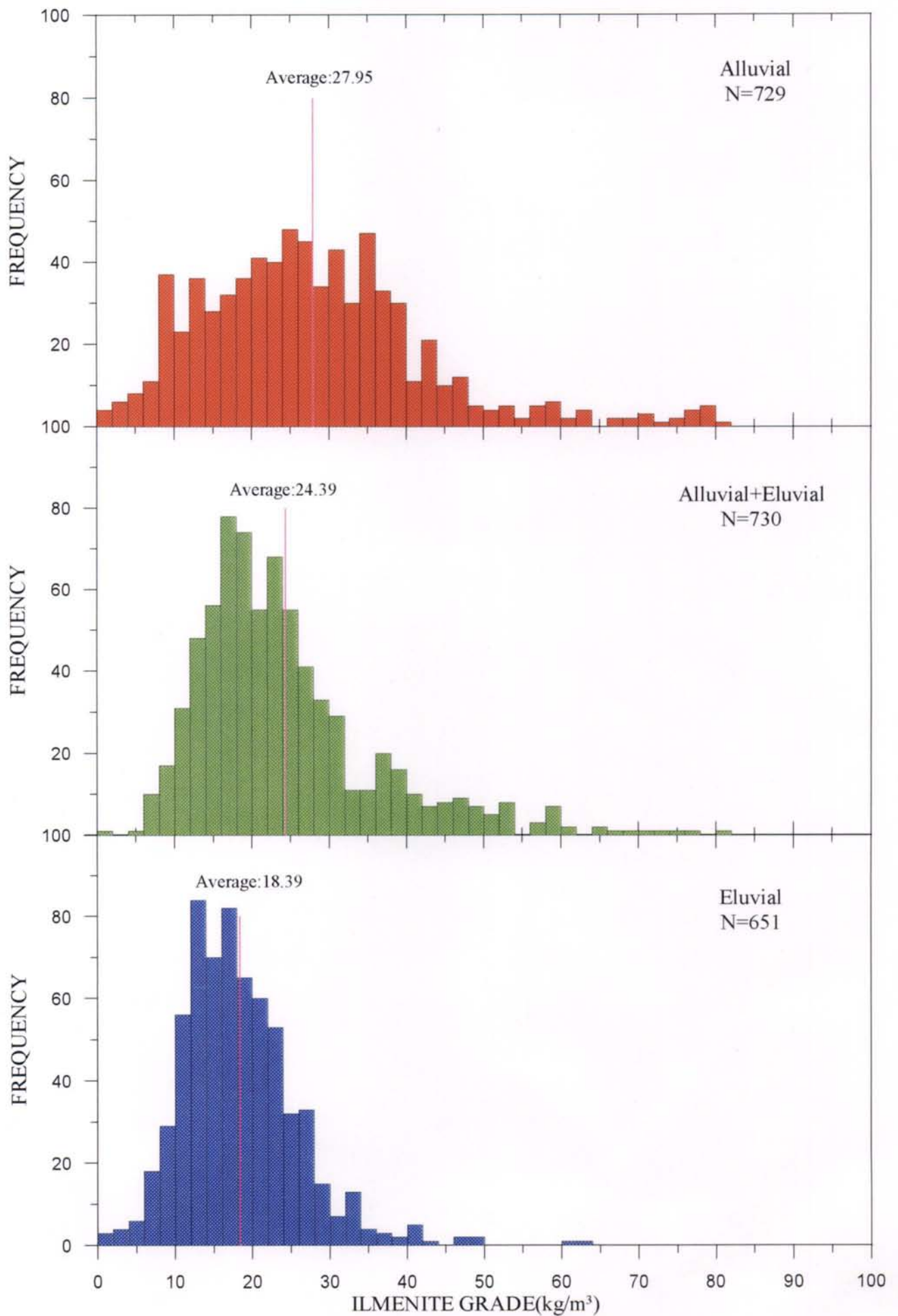


Fig. II-1-3 Frequency of Ilmenite Grade in Alluvial and Eluvial

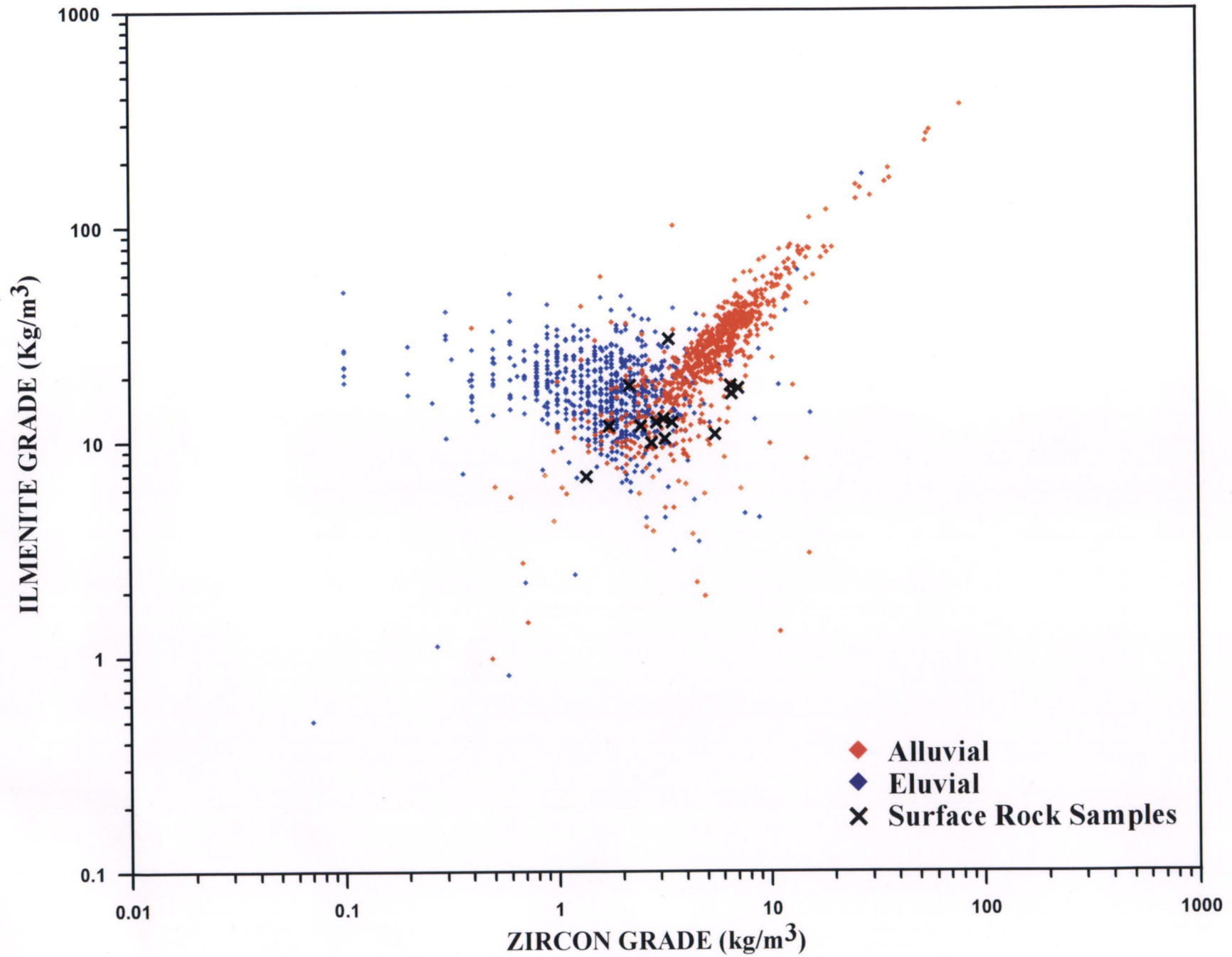
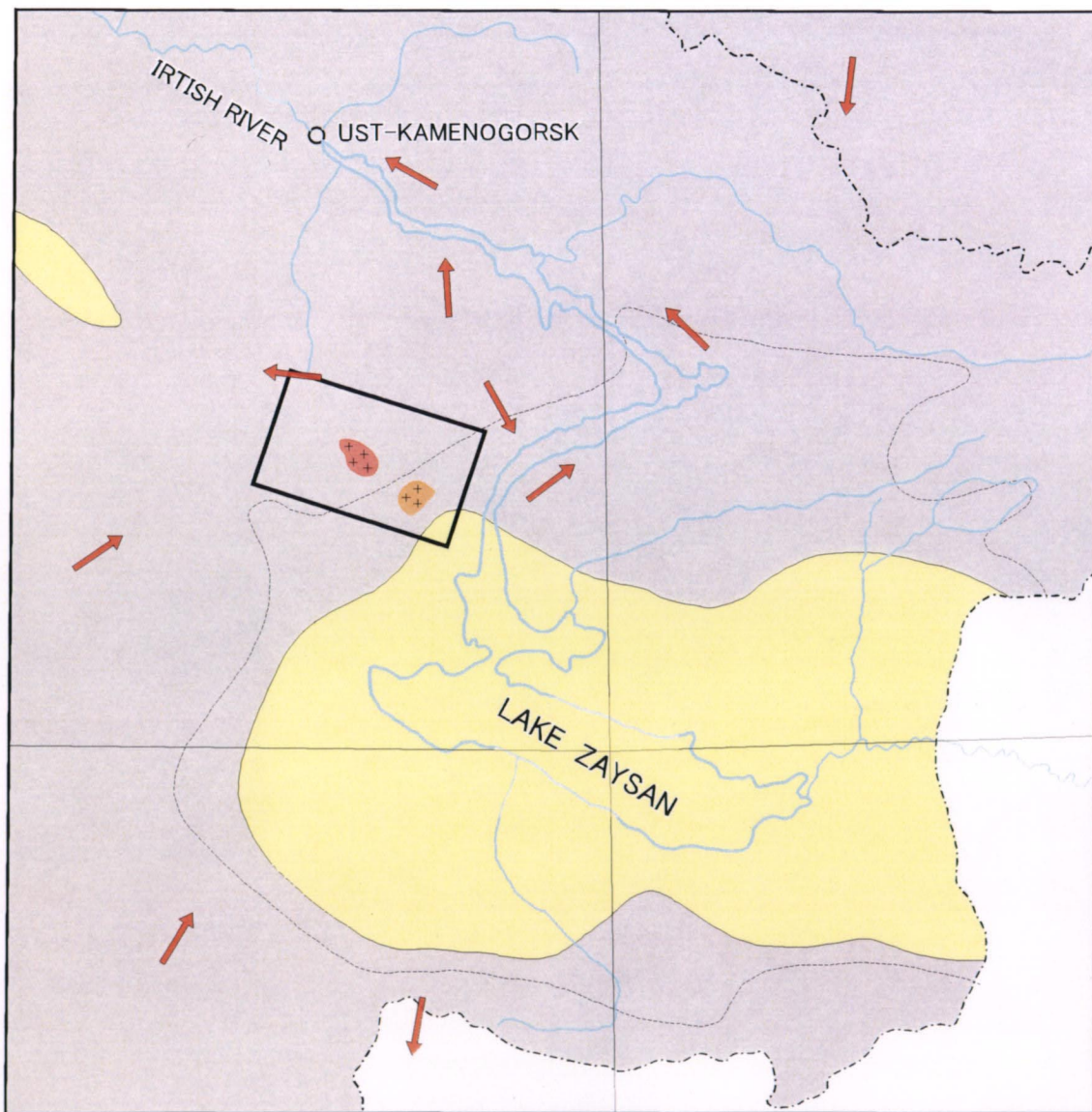


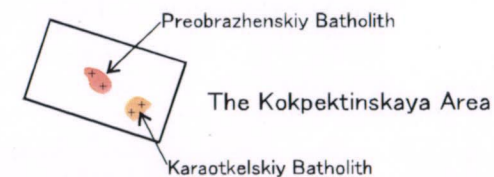
Fig.II-1-4 Ilmenite vs Zircon Grade of the Karaotkel Deposit

84°E



### LEGEND

- Clay with siliceous concretion
- Weathered crust of pre-Tertiary Basement rock
- Boundary of the Basin
- Direction of fragment removal



0 100km

North Zaysanskaya Age  
(Paleocene)  
Before 56.5 Ma

AFTER: EROFEEV, V.S.  
MATSUI, V.M.  
TSEHOVSKI, YU.G.

Fig II-1-5 Paleogeographic Map of the Zaysan Basin (1)

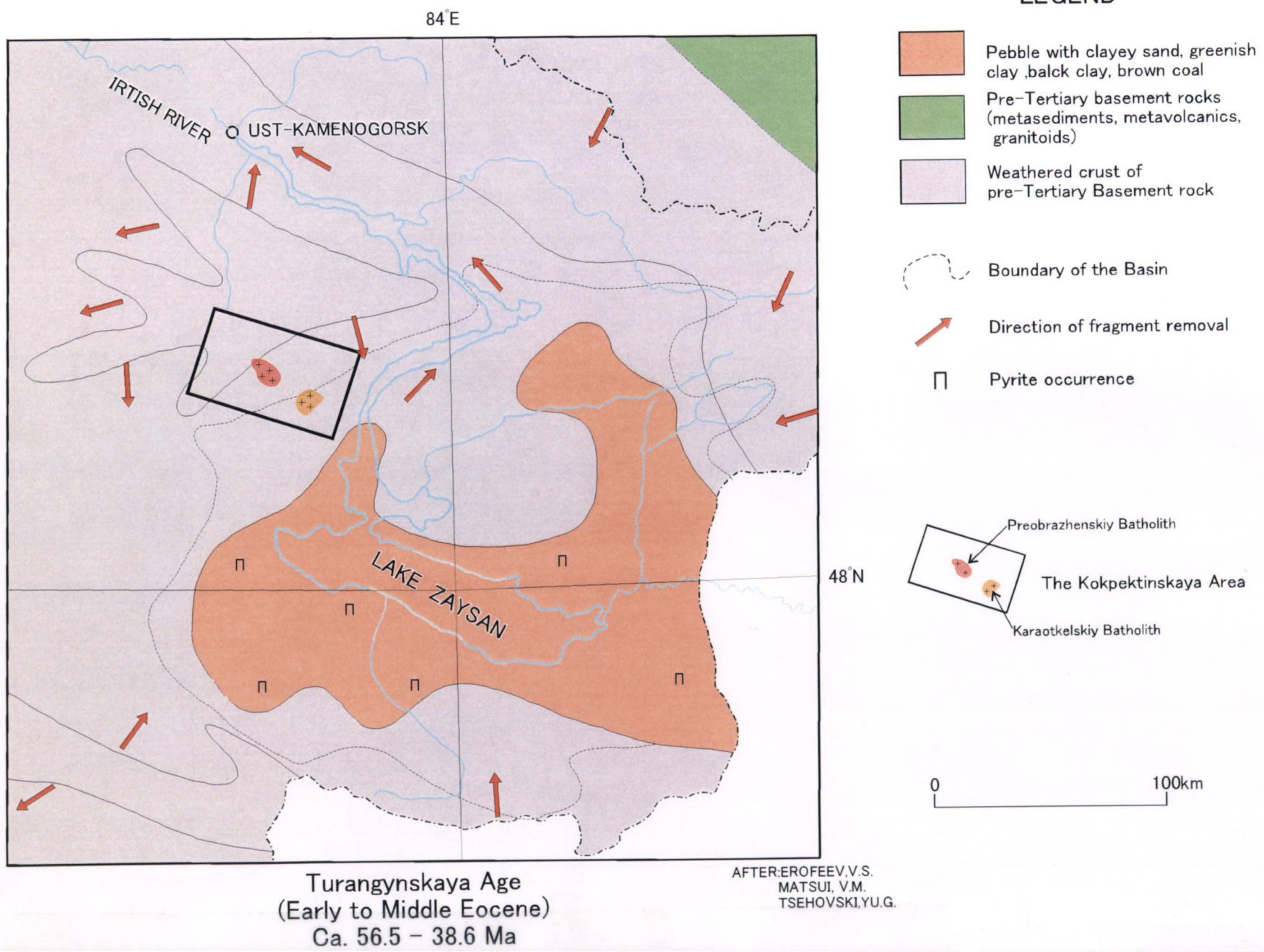


Fig II-1-5 Paleogeographic Map of the Zaysanskaya Basin (2)