is rather

ate cubic ss needles ing to Dr. al is probcomparaent in this l features. I) we have the name At present It. Iliwaara Russia, and as first susemained for osition with usives.2 As t Ice River study, than ent from the river, while resented by bia locality. eater proporccurrences of t hornblende

lyzed a speci-Hoffman. under (1) was sity, and this was made of

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jolites. the others, is ever, is also

, 4 pp. 300-312.

For purposes of comparison the following table of analyses are given of the ijolites from the various localities at present known.

Analyses	of ijolites	from several	localities.	
	1	21	3 ²	4 ³
Si O ₂	39.250	41.75	42.79	46.63
Al. O3	16.012	17.09	19.89	15.03
Fe, O ₃	4.313	6.35	4.39	5.91
Fe O	9.640	3.41	2.33	5.09
Mg O	4.242	4.71	1.87	3.47
Ca O	13.423	14 57	11.76	11.23
Na, O	4.917	6.17	9.31	8.16
K, O	2.256	3.98	1.67	1.96
H_2 O (ignit) H_3 O (110°)	0.797	0.62 0 28	0.99	0.35
Ti O,	4.019	0.58	1.70	1.12
Mn O	0.349	trace	0.41	trace
$P_2 O_5 \dots \dots$	0.905	1.09	1.70	
	100.123	100.60	98.81	99.57

1-Ijolite, Ice river, British Columbia.

Magnet Cove, Arkansas, U.S.A. .,.

Mt. Iiwaara, Finland.

Kaljokthal, Umptek, Kola.

The hydronephelite which is such an important mineral constituent of the biotite-ægirine-ijolite was separated by means of Thoulet's solution, the specific gravity of the powder thus ascertained varying from 2.243—2.275. An analysis of this powder was made by Mr. R. A. A. Johnston, which shows it to have the composition given under 1 in the following table.

Aluene at Hudronethelite and Rante

Anatyses of I	<i>tyaronepneu</i>	ie ana nanzi	· .
	14	25	35
Si O	42.80	38.99	39.21
Al ₂ O ₃	28.50	33.62	31.79
Fe ₂ O ₃	0.34		0.57
Ca O	1.90	0.07	5.07
Na ₂ O	14.33	13.07	11.55
К. О	0.30	1.12	
H ₂ O	10.81	12.98	11.71
			-
	98.98	99.85	95.90
Spec. grav 2.243	-2.275	2.263	2.48

Bull. Geol. Soc. Am., Vol. 11, 1900. No. IV, p. 399 Rosenbusch: Elem. Gesteinlehre, p. 180,
Ann. Rep. Geol. Surv. Can., Vol. XII, p. 13R.

Dana's Mineralogy. 1892, p. 609.