

### Supplementary material

**Table S1.** Results of anisotropy of magnetic susceptibility measurements. AMS types: N – normal, R – reverse, I – intermediate, S – scattered, D – diagonal. Pj – corrected degree of anisotropy, T – shape parameter; K1, K2, K3 – maximal, medium and minimum axes of AMS ellipsoid, respectively; D – declination, I – inclination.

Site	Object	Complex/type	AMS type	Pj	T	N	K1 D	K1 I	K2 D	K2 I	K3 D	K3 I	Area
24_18	dike	Avamsky complex	I	1.031	0.152	17	269.2	12.4	5.6	27	156.9	59.9	Icon
25_18	dike	Avamsky complex	S	1.034	-0.178	15	312.4	4	51.1	65	220.6	24.6	Icon
AR6	Arylakh intrusion	Noril'sk type	D	1.02	0.192	15	67.6	20.9	302.1	56.6	167.8	24.8	Icon
AR4	Arylakh intrusion	Noril'sk type	I	1.011	-0.068	15	43.1	9.5	294.7	62	137.8	26	Icon
AR7	Arylakh intrusion	Noril'sk type	I	1.012	-0.14	8	66.4	3.4	166	70.1	335.2	19.6	Icon
AR2	Arylakh intrusion	Noril'sk type	N	1.017	-0.023	20	50.1	6.7	318.7	11.9	169.1	76.3	Icon
AR5	Arylakh intrusion	Noril'sk type	N	1.015	-0.028	15	85	6.8	175	0.1	265.6	83.2	Icon
AR1	Arylakh intrusion	Noril'sk type	S	1.027	-0.066	21	251.8	6.7	157.6	32	352.3	57.2	Icon
AR3	Arylakh intrusion	Noril'sk type	S	1.012	0.052	15	39.5	50.7	246.7	36.1	146.6	13.5	Icon
28_18	sill	Noril'sk type	N	1.079	-0.062	14	320.5	47.4	56.9	5.9	152.3	42.4	Icon
I3	Imangda intrusion	Noril'sk type	N	1.028	0.005	19	355.8	3.5	85.9	1	192.3	86.4	Imangda
I4	Imangda intrusion	Noril'sk type	N	1.029	0.147	19	307.8	1.2	37.9	4.9	204.3	85	Imangda
I2	Khyukta intrusion	Noril'sk type	N	1.026	-0.229	19	154.5	4.4	63.7	9.9	268.4	79.2	Imangda
I5	sill	Oganer complex	N	1.02	-0.125	19	108.1	18.5	10	22.9	233.2	59.9	Imangda
I1	lava flow	Tuklonsky formation	D	1.002	0.161	10	247.3	10.4	353.5	56.9	150.9	31.1	Imangda
I6	sill	Yergalakhsky complex	N	1.025	0.065	19	122.9	21.5	216.8	9.7	329.5	66.2	Imangda
4_17	dike	Daldykan complex	I	1.061	0.28	10	269.8	72.3	171.1	2.8	80.2	17.4	Kharaelakh
3.2_17	dike	Daldykan complex	N	1.036	0.416	7	139.9	61.6	260.4	15.3	357.2	23.3	Kharaelakh
11.2_16	dike	Daldykan complex	N/I	1.06	0.205	11	187.5	83.5	341.4	5.9	71.7	2.9	Kharaelakh
8_16	sill	Daldykan complex	N	1.014	0.132	17	322.9	20	230.5	6.5	123.3	68.9	Kharaelakh
11.3_16	lava flow	Ivakinsky formation	N	1.032	0.15	7	330.3	7.3	62.5	16.5	217.2	71.9	Kharaelakh

20_17	apophysis of Taknakh	Kruglogorsky type	S	1.321	-0.126	8	276.1	5.8	179.3	49.6	11	39.8	Kharaelakh
21_17	apophysis of Taknakh	Kruglogorsky type	S	1.022	-0.008	18	324.1	28.9	212	34.3	84	42.1	Kharaelakh
22_17	apophysis of Taknakh	Kruglogorsky type	S	1.029	0.089	20	150.6	56.1	359.7	30.4	261.6	13.5	Kharaelakh
9_16	sill	Kruglogorsky type	N	1.033	-0.18	12	149.6	6.9	240.3	5.7	9.4	81.1	Kharaelakh
12.1_17	Zayachiy Creek intrusion	Kruglogorsky type	D	1.021	0.153	19	326.7	11.9	74.5	55.5	229.2	31.9	Kharaelakh
RZ2	Zayachiy Creek intrusion	Kruglogorsky type	D	1.019	-0.019	10	233.8	32.7	139.9	6	40.8	56.6	Kharaelakh
27_19ZR	Zayachiy Creek intrusion	Kruglogorsky type	I	1.024	0.098	32	149.6	18.6	291	66.7	54.9	13.5	Kharaelakh
10_17	Zayachiy Creek intrusion	Kruglogorsky type	N	1.019	0.069	16	307.2	27.6	215.3	3.6	118.4	62.1	Kharaelakh
12.2_17	Zayachiy Creek intrusion	Kruglogorsky type	N	1.032	0.078	24	307.4	35.5	62	30.2	181	39.8	Kharaelakh
RZ1	Zayachiy Creek intrusion	Kruglogorsky type	N	1.01	-0.07	19	313	9	43.7	4.7	160.7	79.8	Kharaelakh
10_16	Zayachiy Creek intrusion	Kruglogorsky type	S	1.024	0.14	21	93.7	64.1	292.8	24.6	199.4	7.5	Kharaelakh
RZ3	Zayachiy Creek intrusion	Kruglogorsky type	S	1.013	0.265	8	143	24.8	44.2	18.4	281.6	58.4	Kharaelakh
MK1_18	lava flow	Mokulaevsky formation	N	1.022	0.209	15	120.2	12.8	27.6	11.5	257	72.7	Kharaelakh
MK2_18	lava flow	Mokulaevsky formation	N	1.016	0.283	15	312.7	20.6	218.2	11.8	100.1	66	Kharaelakh
MK3_18	lava flow	Mokulaevsky formation	N	1.04	0.44	15	316.9	17.3	226.8	0.5	135.3	72.7	Kharaelakh
MK4_18	lava flow	Mokulaevsky formation	N	1.045	0.724	13	285.3	28.7	192.1	5.7	91.9	60.6	Kharaelakh
16_17	hornfels, Kharaelakh	Noril'sk complex	D	1.205	0.312	12	29.9	48	132	10.6	231	40	Kharaelakh

	intrusion												
25_17	hornfels, Kharaelakh intrusion	Noril'sk complex	N	1.062	0.702	17	153.5	3.2	62.5	18.7	252.7	71	Kharaelakh
44_17	hornfels, Talnakh intrusion	Noril'sk complex	N	1.135	0.331	14	354.2	17	84.3	0.3	175.3	73	Kharaelakh
45_17	hornfels, Talnakh intrusion	Noril'sk complex	N	1.024	0.174	9	100.3	5.6	9.9	4	244.8	83.1	Kharaelakh
46_17	massive ore, Talnakh intrusion	Noril'sk complex	D	1.118	0.009	20	163.1	32.3	255	3	349.8	57.5	Kharaelakh
47_17	massive ore, Talnakh intrusion	Noril'sk complex	N	1.14	0.01	14	291.2	10.3	22	4.4	135	78.8	Kharaelakh
42_17	skarn, Talnakh intrusion	Noril'sk complex	N	1.059	0.637	14	49.5	13.6	317.2	9.6	192.8	73.3	Kharaelakh
23_17	Kharaelakh intrusion	Noril'sk type	N	1.11	0.124	18	3.1	13.3	96.1	12.4	227.7	71.7	Kharaelakh
24_17	Kharaelakh intrusion	Noril'sk type	N	1.034	0.175	15	304.9	1.8	35.7	23.9	210.9	66	Kharaelakh
27_17	Kharaelakh intrusion	Noril'sk type	N	1.022	0.175	14	334.8	24.3	229.7	29.8	97.1	49.7	Kharaelakh
26_17	Kharaelakh intrusion	Noril'sk type	R	1.073	0.085	17	192	66.9	349.8	21.6	83	7.9	Kharaelakh
38_17	Kharaelakh intrusion	Noril'sk type	R	1.048	0.004	10	1.5	60.6	95.1	2	186.2	29.3	Kharaelakh
39_17	Kharaelakh intrusion	Noril'sk type	R	1.028	0.131	21	338.9	57.1	201	25.6	101.4	19.2	Kharaelakh
40_17	Kharaelakh intrusion	Noril'sk type	R	1.055	0.018	20	253.4	63.6	152.6	5.3	60	25.8	Kharaelakh
41_17	Kharaelakh intrusion	Noril'sk type	R	1.032	-0.214	18	260.3	74.5	123.2	11.5	31.1	10.3	Kharaelakh
37_17	Kharaelakh intrusion	Noril'sk type	S	1.028	0.146	21	190.7	42.2	98.9	1.9	6.8	47.7	Kharaelakh
50_17	Talnakh intrusion	Noril'sk type	D	1.111	0.356	11	53.3	50	322.1	1	231.3	40	Kharaelakh

48_17	Talnakh intrusion	Noril'sk type	I	1.047	0.007	15	90.2	7.9	324.1	76.8	181.7	10.5	Kharaelakh
43_17	Talnakh intrusion	Noril'sk type	R	1.035	0.078	14	347	77.7	105.2	5.9	196.4	10.8	Kharaelakh
49_17	Talnakh intrusion	Noril'sk type	R	1.089	-0.231	12	346.2	59.8	123	23	221.2	18.5	Kharaelakh
1_17	dike	Oganer complex	D	1.023	0.126	11	100.1	84.1	234.9	4.2	325.2	4.2	Kharaelakh
3.3_17	dike	Oganer complex	D	1.012	0.23	5	157.4	78.7	316.3	10.6	47.1	4	Kharaelakh
2_17	dike	Oganer complex	R	1.024	0.242	8	356.2	2.9	86.3	3.1	223.8	85.8	Kharaelakh
3.1_17	dike	Oganer complex	R	1.018	-0.095	7	249.2	67.9	101.2	19	7.4	10.9	Kharaelakh
9_16sv1	lava flow	Syverminsky formation	I	1.011	-0.354	7	261.9	5.3	166.4	45.9	357	43.6	Kharaelakh
9_16sv2	lava flow	Syverminsky formation	I	1.01	-0.108	7	302.1	28.5	188.7	36.3	59.8	40.5	Kharaelakh
9_17	sill	Yergalakhsky complex	I	1.049	-0.035	10	178.8	17.6	290.2	49.1	75.7	35.5	Kharaelakh
7.3_17	sill	Yergalakhsky complex	I/R	1.029	0.529	10	320.4	31.9	156.7	57	55.1	7.5	Kharaelakh
6_17	sill	Yergalakhsky complex	N	1.03	-0.021	13	98.7	5.7	8.5	2.1	258.1	83.9	Kharaelakh
7.2_17	sill	Yergalakhsky complex	N	1.039	0.178	13	217.6	0.6	307.7	7.1	123.1	82.8	Kharaelakh
11.4_16	sill	Yergalakhsky complex	R	1.017	0.194	12	210.4	41.8	356.4	42.9	103.7	17.8	Kharaelakh
5_16	sill	Yergalakhsky complex	R	1.018	0.216	9	221.5	82	28.2	7.8	118.4	1.8	Kharaelakh
7.1_17	sill	Yergalakhsky complex	R	1.023	-0.255	10	262.1	82.1	2	1.4	92.2	7.8	Kharaelakh
8.1_17	sill	Yergalakhsky complex	R	1.019	0.26	12	305.8	80.1	154.3	8.7	63.5	4.7	Kharaelakh
8.2_17	sill	Yergalakhsky complex	R	1.037	0.563	12	141.9	78.3	283	9.2	14.2	7.2	Kharaelakh
11.1_16	sill	Yergalakhsky complex	R/S	1.019	-0.197	17	118.1	59.7	246.7	20	345	21.7	Kharaelakh
5_17	sill	Yergalakhsky complex	S	1.024	0.13	42	201.5	30.2	349.9	55.7	102.6	14.8	Kharaelakh

6_16	sill	Yergalakhsky complex	S	1.018	-0.037	13	255.1	54.9	68.1	34.9	160.4	3.3	Kharaelakh
7_16	sill	Yergalakhsky complex	S	1.019	0.058	10	311.2	56.9	90.9	26.5	190.5	18.4	Kharaelakh
K10	sill	Daldykan complex	N	1.024	0.556	11	19.2	30.3	116.4	12	225.3	56.9	Kulumbe
K6	sill	Daldykan complex	N	1.018	0.102	21	157.5	10.1	66.7	4.2	314.4	79.1	Kulumbe
K9	sill	Daldykan complex	N	1.018	-0.245	15	124.8	3.1	34.5	5.9	242.7	83.4	Kulumbe
K5	sill	Daldykan complex	N	1.034	-0.17	30	107.6	1.5	197.6	0.5	306.2	88.4	Kulumbe
KX	sill	Daldykan complex	N	1.029	0.074	10	308.2	4.5	218	2.1	103.2	85	Kulumbe
KUL-24	sill	Katangsky complex	N	1.022	-0.115	10	103.1	5.5	194.1	10.5	346	78.1	Kulumbe
KUL-32	sill	Katangsky complex	N	1.026	0.012	10	122.7	27.4	221.5	16.4	338.8	57.3	Kulumbe
KUL-38	sill	Katangsky complex	N	1.028	0.388	12	80	20.4	183.8	31.8	322.8	50.8	Kulumbe
KUL-44	sill	Katangsky complex	N	1.028	-0.279	9	146.7	9.4	238.2	8.6	9.8	77.2	Kulumbe
KUL-1	sill	Katangsky complex	R	1.023	-0.06	15	49.5	75.2	235.9	14.7	145.5	1.6	Kulumbe
KUL-14	sill	Katangsky complex	R	1.027	-0.118	15	309.5	32	52.7	20	169.2	50.9	Kulumbe
KUL-2	sill	Katangsky complex	R	1.023	-0.198	8	280	81.1	101.1	8.9	11.1	0.2	Kulumbe
KUL-46	sill	Katangsky complex	R	1.018	-0.039	10	313.5	26.2	83.5	52.5	210.4	24.7	Kulumbe
KUL-6	sill	Katangsky complex	R	1.033	0.242	10	293.6	37.7	26.8	4.1	122	52	Kulumbe
KUL-17	sill	Katangsky complex	S	1.03	-0.123	13	344.4	7.5	81.2	42.1	246.3	47	Kulumbe
KUL-21	sill	Katangsky complex	S	1.017	0.204	11	273.3	7.5	10.3	42.7	175.4	46.3	Kulumbe
KUL-25	sill	Katangsky complex	S	1.023	-0.13	15	154.9	76.2	327.8	13.7	58.2	1.6	Kulumbe

KUL-28	sill	Katangsky complex	S	1.019	-0.054	15	357.4	4.7	266.1	15.5	103.9	73.7	Kulumbe
K8	Iltyk intrusion	Kruglogorsky type	N	1.033	-0.084	20	171	5.7	79.4	16.1	280	72.9	Kulumbe
K3	Khalil intrusion	Kureysky complex	R	1.013	0.045	21	263.1	52.5	38.9	28.8	141.6	21.8	Kulumbe
K1-2	Kulyumbinskaya intrusion	Kureysky complex	N	1.018	0.157	17	179.9	8.6	88.5	9.2	312.4	77.4	Kulumbe
KUL-16	sill	Kureysky complex	N	1.022	-0.081	8	104.4	11.4	195.8	6.7	315.7	76.7	Kulumbe
KUL-12	sill	Kureysky complex	S	1.011	-0.1	15	138.9	52.4	355	31.9	253.5	17.7	Kulumbe
KUL-40	sill	Kureysky complex	S	1.027	-0.012	14	39.4	61.2	178.6	22.7	275.9	16.9	Kulumbe
K11	sill	Kuzmovsky complex	N	1.031	0.096	13	26.7	8.9	119.8	18.9	272.7	69	Kulumbe
K7	Siluriyskaya intrusion	Noril'sk type	N	1.045	0.023	13	4	1.4	94	0.7	210.7	88.4	Kulumbe
K4	sill	Yergalakhsky complex	N	1.004	0.089	10	172.7	48.8	75.8	6	340.7	40.5	Kulumbe
KH23_21	lava flow	Kharaelakhsky formation	N	1.039	0.015	15	68.7	46.1	325	12.8	223.6	41	Mokulay
KH24_21	lava flow	Kharaelakhsky formation	N	1.009	0.134	17	110.3	12.5	14.1	26.1	223.5	60.7	Mokulay
KH25_19	lava flow	Kharaelakhsky formation	N	1.114	0.022	14	310.2	33.9	52	16.8	163.9	51	Mokulay
KH25_21	lava flow	Kharaelakhsky formation	N	1.008	-0.246	19	129.6	26.5	335.7	61	225.2	11	Mokulay
KH26_19	lava flow	Kharaelakhsky formation	N	1.08	0.35	13	120.1	8.4	26.7	21.7	230.1	66.6	Mokulay
KH26_21	lava flow	Kharaelakhsky formation	N	1.02	0.529	20	274.1	7.4	5.7	11.9	152.8	75.9	Mokulay
MK1_19	lava flow	Mokulaevsky formation	I	1.035	-0.062	22	297.5	0.7	31.6	79.9	207.3	10.1	Mokulay
MK10_19	lava flow	Mokulaevsky formation	I	1.046	0.169	13	309.8	10	204	57.1	45.8	31	Mokulay
MK9_19	lava flow	Mokulaevsky formation	I	1.038	0.575	16	13.1	28.9	244.2	48.8	119.2	26.7	Mokulay

MK11-19	lava flow	Mokulaevsky formation	N	1.018	0.153	15	154.6	9.4	54.8	45.8	253.4	42.7	Mokulay
MK12-19	lava flow	Mokulaevsky formation	N	1.06	0.392	12	323.1	7.3	62.1	50.7	227.3	38.4	Mokulay
MK13_19	lava flow	Mokulaevsky formation	N	1.052	0.4	16	85	45.1	322	28.5	212.7	31.3	Mokulay
MK2_19	lava flow	Mokulaevsky formation	N	1.026	0.169	24	99.8	62.4	332.7	17.5	235.9	20.6	Mokulay
MK21_19	lava flow	Mokulaevsky formation	N	1.05	0.189	21	285.4	0.5	15.7	35.6	194.6	54.4	Mokulay
MK22_19	lava flow	Mokulaevsky formation	N	1.065	0.422	16	108.7	5	16.7	21.2	211.4	68.2	Mokulay
MK23_19	lava flow	Mokulaevsky formation	N	1.034	0.285	13	350.5	9.3	83	15.4	230.4	71.9	Mokulay
MK24_19	lava flow	Mokulaevsky formation	N	1.014	0.347	17	299.2	3.7	30.3	16.8	197.2	72.8	Mokulay
MK3_19	lava flow	Mokulaevsky formation	N	1.018	-0.009	20	77	56.6	317.4	18	217.8	27.1	Mokulay
MK4_19	lava flow	Mokulaevsky formation	N	1.046	0.521	20	123.7	8.3	20.8	56.9	218.9	31.8	Mokulay
MK5_19	lava flow	Mokulaevsky formation	N	1.029	0.278	20	129.3	13.9	24.9	45.2	231.9	41.5	Mokulay
MK6_19	lava flow	Mokulaevsky formation	N	1.101	0.437	20	1.1	27.6	98.7	14.3	213.1	58.4	Mokulay
MK7_19	lava flow	Mokulaevsky formation	N	1.032	0.575	18	103.3	9	7.7	31.2	207.5	57.5	Mokulay
MK8_19	lava flow	Mokulaevsky formation	N	1.031	0.359	19	114	0	24	50.7	204	39.3	Mokulay
4_16	Ambarnaya intrusion	Daldykan complex	N	1.022	0.057	11	55.2	4.8	325.1	1.2	220.7	85.7	Noril'sk
13_16	Kruglogorsky intrusion	Kruglogorsky type	D	1.021	-0.044	9	343.9	48.8	146.6	39.9	243.9	8.7	Noril'sk
15_16	Kruglogorsky	Kruglogorsky type	N	1.048	0.144	6	190.3	24.3	283.9	7.9	30.6	64.2	Noril'sk

	intrusion												
16_16	Kruglogorsky intrusion	Kruglogorsky type	S	1.034	-0.394	5	91.5	58.6	1	0.3	270.8	31.4	Noril'sk
4f1-16	lava flow	Morongovsky formation	D	1.015	0.402	7	183.6	49	310.6	27.6	56.5	27.7	Noril'sk
4f4-16	lava flow	Morongovsky formation	N	1.051	0.484	7	0.6	12.1	267	16.5	125.4	69.3	Noril'sk
4f6-16	lava flow	Morongovsky formation	N	1.012	0.395	6	359.6	13.4	266.4	13.5	132.8	70.8	Noril'sk
4f3-16	lava flow	Morongovsky formation	R	1.013	0.263	5	39.9	66	273.5	14.8	178.4	18.5	Noril'sk
14.2_17	hornfels, Noril'sk-1	Noril'sk complex	D	1.016	0.087	8	179.9	6.3	278.8	54.9	85.5	34.4	Noril'sk
12_16	Chernogorsky intrusion	Noril'sk type	N	1.039	0.268	12	278.6	8.8	10.9	14.7	158.5	72.8	Noril'sk
28_17	Chernogorsky intrusion	Noril'sk type	N	1.023	-0.044	21	99.5	1.2	190.2	27.4	7.2	62.6	Noril'sk
31_17	Chernogorsky intrusion	Noril'sk type	N	1.01	0.047	9	152.7	6	62.4	2.9	306.7	83.4	Noril'sk
20_16	Chernogorsky intrusion	Noril'sk type	R	1.038	0.078	16	143.7	57.9	358	27.3	259.8	15.4	Noril'sk
30_17	Chernogorsky intrusion	Noril'sk type	R	1.015	0.076	21	46.5	63.2	168.5	15	264.6	21.7	Noril'sk
29_17	Chernogorsky intrusion	Noril'sk type	S	1.023	0.042	22	187.5	13.4	286.9	34.3	79.5	52.5	Noril'sk
13.1_17	Noril'sk-1 intrusion	Noril'sk type	D	1.015	-0.079	11	64.7	28.1	272.6	58.9	161.4	12.3	Noril'sk
13.2_17	Noril'sk-1 intrusion	Noril'sk type	D	1.061	-0.023	19	334.6	18.9	100.9	59.9	236.5	22.5	Noril'sk
13.3_17	Noril'sk-1 intrusion	Noril'sk type	D	1.068	-0.095	8	34.4	41.2	150.9	27	263.4	36.9	Noril'sk
14.1_17	Noril'sk-1 intrusion	Noril'sk type	D	1.121	0.152	13	248.2	41.9	7.9	28.8	120.1	34.5	Noril'sk

15.1_17	Noril'sk-1 intrusion	Noril'sk type	I	1.323	0.306	18	323.7	11.7	102	74.5	231.6	10	Noril'sk
17_17	Noril'sk-1 intrusion	Noril'sk type	N	1.152	0.418	17	26.2	3	296.2	1.1	186.9	86.8	Noril'sk
18_17	Noril'sk-1 intrusion	Noril'sk type	N	1.042	0.218	20	111	12.7	14.5	26.8	223.8	59.9	Noril'sk
19_17	Noril'sk-1 intrusion	Noril'sk type	N	1.027	0.158	15	116.4	7	208.6	17.7	5.7	70.8	Noril'sk
14.3_17	Noril'sk-1 intrusion	Noril'sk type	R	1.06	0.203	13	196.4	60.5	330.1	21.3	68	19.3	Noril'sk
15.2_17	Noril'sk-1 intrusion	Noril'sk type	R	1.226	0.273	18	16.4	64.3	159.1	21	254.7	14.2	Noril'sk
33_17	Noril'sk-2 intrusion	Noril'sk type	D	1.019	0.164	21	322.5	54.8	166.3	32.9	668.9	11.3	Noril'sk
36_17	Noril'sk-2 intrusion	Noril'sk type	I	1.037	-0.021	22	133	15.8	259.4	64.4	37.3	19.6	Noril'sk
35_17	Noril'sk-2 intrusion	Noril'sk type	N	1.107	0.205	15	87.6	11.5	355.3	11.4	221.7	73.7	Noril'sk
32_17	Noril'sk-2 intrusion	Noril'sk type	R	1.03	-0.103	15	22.5	65	205.3	25	114.8	1.1	Noril'sk
34_17	Noril'sk-2 intrusion	Noril'sk type	R	1.008	-0.016	23	252.4	77.8	12.1	6.1	103.3	10.5	Noril'sk
1_16	Oganer intrusion	Oganer complex	N	1.041	0.499	12	191	3.4	281.1	2.2	44.9	86	Noril'sk
11.1_17	Oganer intrusion	Oganer complex	N	1.03	0.222	12	185.6	1	275.7	4.9	84.6	85	Noril'sk
11.2_17	Oganer intrusion	Oganer complex	N	1.061	0.525	14	215.9	3.6	125.8	1.6	11.9	86.1	Noril'sk
2_16	Oganer intrusion	Oganer complex	N	1.037	0.151	10	206.2	0.7	296.2	2.4	100.9	87.5	Noril'sk
14_16	sill	Yergalakhsky complex	N	1.025	-0.422	8	113.7	4.5	205.5	21.8	12.7	67.7	Noril'sk
17_16	sill	Yergalakhsky complex	N	1.026	0.118	10	1.8	25.1	101.2	19.3	224.4	57.5	Noril'sk
18_16	sill	Yergalakhsky complex	N	1.022	-0.016	18	151.3	4.9	244.9	36.1	54.6	53.4	Noril'sk
19_16	sill	Yergalakhsky	R	1.013	0.116	9	301.8	66.4	77.2	17.3	172.2	15.6	Noril'sk

complex													
17_19	sill	Daldykan complex	N	1.03	0.637	17	239.1	10.1	330.5	7.8	97.3	77.2	South Noril'sk
15_19	sill	Kruglogorsky type	D	1.026	-0.353	16	182.7	6.1	279.4	47.4	87.1	41.9	South Noril'sk
14_19	sill	Kruglogorsky type	I	1.023	-0.025	14	20.9	11.5	214.9	78.2	111.4	2.8	South Noril'sk
16_19	sill	Kruglogorsky type	R	1.025	0.486	20	85.9	86.2	204.7	1.8	294.8	3.3	South Noril'sk
20_19	Ruinnaya intrusion	Morongovsky complex	D	1.095	0.047	19	209.7	14.3	100	53	309.3	33.3	South Noril'sk
18_19	Ruinnaya intrusion	Morongovsky complex	R	1.063	0.089	19	185.8	79.3	4.7	10.7	94.7	0.2	South Noril'sk
19_19	Ruinnaya intrusion	Morongovsky complex	R	1.166	0.299	18	241.1	53.4	59.4	36.6	150	0.8	South Noril'sk
B13	Burkan intrusion	Noril'sk type	D	1.036	0.013	15	74.2	38.8	175.9	14.2	282	47.7	South Noril'sk
B12	Burkan intrusion	Noril'sk type	N	1.051	0.479	21	240.9	0.2	330.9	18.2	150.4	71.8	South Noril'sk
KM10_21	lava flow	Kumginsky formation	N	1.06	0.62	20	231.1	11.6	137.7	16.5	354.7	69.7	Talovaya
SM19_21	lava flow	Samoedsky formation	D	1.091	0.161	20	282.2	10.4	183.6	39.3	24.3	48.8	Talovaya
SM4_21	lava flow	Samoedsky formation	D	1.032	0.006	20	16.9	24	126.6	37.1	262	43.3	Talovaya
SM2_21	lava flow	Samoedsky formation	I	1.041	0.286	20	26.3	32.3	195.6	57.2	293.2	4.9	Talovaya
SM8_21	lava flow	Samoedsky formation	I	1.043	-0.127	21	301.8	20.8	147.3	67.2	35.3	9	Talovaya
SM11_21	lava flow	Samoedsky formation	N	1.033	0.081	21	216.5	18.9	120.3	17.4	350.6	63.8	Talovaya
SM12_21	lava flow	Samoedsky formation	N	1.066	0.408	20	297.4	16.4	30.4	10.3	151.2	70.5	Talovaya
SM13_21	lava flow	Samoedsky formation	N	1.059	0.249	20	79.8	16.9	170.5	2.2	267.7	72.9	Talovaya
SM14_21	lava flow	Samoedsky formation	N	1.062	0.481	20	272.9	11.1	4.8	9.3	133.8	75.5	Talovaya
SM15_21	lava flow	Samoedsky formation	N	1.045	-0.161	22	74.2	9.7	340.8	19	190	68.5	Talovaya

SM16_21	lava flow	Samoedsky formation	N	1.037	0.344	21	240.9	17.5	146	15	17.7	66.6	Talovaya
SM17_21	lava flow	Samoedsky formation	N	1.107	0.536	23	253.8	9.3	345.1	8	115.2	77.7	Talovaya
SM18_21	lava flow	Samoedsky formation	N	1.061	0.021	22	318.9	7.5	49.6	5.2	174.1	80.8	Talovaya
SM20_21	lava flow	Samoedsky formation	N	1.072	0.599	24	269.9	27.3	175.7	8.1	70.5	61.3	Talovaya
SM21_21	lava flow	Samoedsky formation	N	1.036	0.717	20	59.9	22.3	326.9	7.5	219.5	66.3	Talovaya
SM22_21	lava flow	Samoedsky formation	N	1.057	0.501	20	280.5	14.7	12.2	6.5	125.6	73.8	Talovaya
SM3_21	lava flow	Samoedsky formation	N	1.04	0.7	20	1.8	0.9	271.5	15.9	94.9	74.1	Talovaya
SM5_21	lava flow	Samoedsky formation	N	1.072	0.362	20	189.3	20.5	281.8	6.8	29.3	68.3	Talovaya
SM6_21	lava flow	Samoedsky formation	N	1.053	0.381	20	318.2	22.6	49	1.7	143.1	67.3	Talovaya
SM7_21	lava flow	Samoedsky formation	N	1.053	0.527	20	275.2	9.9	5.2	0.3	96.9	80	Talovaya
SM9_21	lava flow	Samoedsky formation	N	1.048	0.387	19	281.7	23.3	14.3	6.1	118.1	65.8	Talovaya
SM1_21	lava flow	Samoedsky formation	R	1.114	0.256	22	251.6	80.3	61.2	9.6	151.5	1.7	Talovaya