

The description of the snow and ice crust data set

The dataset has routine snow surveys that run throughout the cold season every 10 days (every five days during the intense snowmelt) at 517 meteorological stations of the Russia for 1966 - 2009.

The list of stations is in the file **station_list.doc**.

Snow surveys run separately along all types of environment typical for the site for 1 to 2 km, (fields, forest). At each 10 (forest) to 20 (field) meters the observer makes snow depth measurements and at each 100 to 200 meters a more comprehensive suite of measurements is made. Each record in data set contains of 9 fields (see Table 1).

Table 1

<i>FIELD</i> No	<i>CONTENTS</i>
1	WMO station number
2	Year
3	Month
4	Snow course type: 1 - field environment; 2 -forest environment;
5	Snow course date
6	Average snow depth along the route. Value is in cm. 999 -The value was rejected or no observations were conducted.
7	Degree of ice crust coverage along the route. Values range from 0 to 10. Ten indicates 100% coverage. 99 -The value was rejected or no observations were conducted.
8	Ice crust thickness. Value is in mm. 99 -The value was rejected or no observations were conducted.
9	Snow structure observed {see Table 2} 99 -no observations were conducted.

Table 2
Snow structure

<i>CODE</i>	<i>SNOW STRUCTURE</i>
0	fresh snow, like dust
1	fresh snow, fluffy
2	fresh snow, sticky
3	old snow, crumbly
4	old snow, dense
5	old snow, wet
6	snow crust, unconnected with snow below
7	dense snow with snow crust on surface
8	damp snow with snow crust on surface
9	snow with water

Station List

INDEX WMO	LATITUDE	LONGITUDE	ELEVATION	STATION NAME
21802	71.97	114.08	17	Saskylakh,AMSG
22113	69.00	33.10	55	MURMANSK
22127	68.08	34.80	161	Lovozero
22165	68.65	43.30	47	Kanin Nos
22271	67.90	44.10	18	SOJNA
22282	67.80	46.70	6	MYS_MIKULKIN
22292	67.70	48.77	4	Indiga
22365	66.40	43.30	21	ABRAMOVSKIJ_MAJAK
22383	66.75	47.77	5	Nizhnaya Pesha
22408	65.20	31.17	118	Ukhta /Kalevala/
22422	65.90	34.80	9	GRIDINO
22438	65.20	36.82	26	Zhizhgin mayak
22471	65.87	44.22	14	Mezen'
22511	64.70	32.10	96	USKOZERO
22529	64.20	35.90	2	KOLEJMA
22541	64.80	38.40	5	UNSKIJ_MAJAK
22551	64.90	40.30	3	MUD' JUG
22559	64.22	41.67	10	Kholmogory
22563	64.70	43.40	26	Pinega
22573	64.90	45.80	71	LESUKONSKOE
22583	64.75	47.65	63	Koynas
22602	63.82	30.82	180	Reboly
22619	63.27	33.42	130	Padany
22621	63.70	34.30	112	SEGEZA
22641	63.90	38.12	11	Onega
22648	63.10	39.20	34	TURCASOVO
22656	63.50	41.80	18	EMECK
22676	63.60	45.60	62	SURA
22686	63.45	47.92	78	Vendinga
22695	63.50	48.90	158	KOSLAN
22721	62.90	34.40	81	MEDVEZEGORSK
22727	62.20	34.30	38	KONDOPOGA
22762	62.90	42.70	34	DVINSKIJ_BEREZNIK
22768	62.10	42.90	47	Shenkursk
22778	62.20	45.00	58	VERHNJAJA_TOJMA
22798	62.17	49.08	71	Yarensk
22802	61.70	30.70	19	SORTOVALA
22820	61.82	34.27	110	Petrozavodsk
22831	61.80	36.55	61	Pudozh
22837	61.02	36.45	57	Vyterga
22845	61.50	38.93	124	Kargopol
22854	61.70	40.20	233	NJANDOMA
22867	61.10	42.10	91	VEL'SK
22887	61.23	46.63	57	Kotlas
22892	60.72	28.80	14	Vyborg
22912	60.98	32.95	11	Olonets
22925	60.60	34.80	90	VINNICY
22939	60.03	37.78	130	Belozersk
22954	60.50	40.20	202	VOZEGA
22981	60.80	46.30	98	VELIKIJ_USTJUG
22996	60.40	49.70	152	OB" JACEVO
23078	69.33	88.30	60	NORIL'SK
23207	67.00	51.20	18	KOTKINO
23219	67.10	59.40	84	HOSEDA-HARD
23226	67.50	64.00	172	VORKUTA
23256	67.50	78.70	8	TAZOVSKOE
23274	67.47	86.57	20	Igarka,AMSG
23305	66.30	52.60	20	OKUNEV_NOS

23324	66.43	60.77	58	Petrun'
23330	66.53	66.53	15	Salekhard
23383	66.88	93.47	277	Agata
23405	65.45	52.17	70	Ust-Tsilma
23412	65.97	56.92	77	Ust-Usa
23418	65.10	57.10	59	PECORA
23445	65.47	72.67	14	NADYM
23472	65.18	87.95	37	Turukhansk,AMSG
23518	64.27	57.62	73	Ust-Shchugor
23527	64.28	60.88	28	Saranpaul
23552	64.92	77.82	27	Tarko-sale
23606	63.60	53.80	137	UHTA
23625	63.70	61.90	28	SOSVA
23631	63.93	65.05	161	Berezovo,AMSG
23662	63.98	82.08	31	TOL'KA
23678	63.15	87.95	46	Verkhne-Imbatsk
23701	62.90	50.90	103	VESLJANA
23711	62.70	56.20	135	Troitsko-Pechorskoye
23734	62.45	66.05	70	Oktyabr'skoye
23803	61.70	53.70	144	UST' - KULOM
23867	61.27	80.05	55	Lar'yak
23884	61.60	90.20	58	BOR
23929	60.30	64.20	53	SAIM
23933	61.00	69.00	47	HANTY - MANSIJSK
23955	60.40	77.90	48	ALEKSANDROVSKOE
23966	60.40	84.10	99	VANZIL' - KYNAK
23973	61.00	89.60	49	VOROGOVO
23975	60.40	88.40	86	SYM
23986	60.38	93.03	513	SEVERO - ENISEJSK
23987	60.30	90.20	58	JARCEVO
24136	68.80	117.97	78	Sukhana
24266	67.55	133.38	135	Verkhoyansk,AMSG
24343	66.80	123.40	92	ZHIGANSK
24382	66.45	143.23	195	Ust' - Moma
24507	64.17	100.07	188	Tura
24585	64.55	143.12	518	Nera,AMSG
24606	63.58	103.97	209	KISLOKAN
24641	63.77	121.62	111	Vilyuysk,AS
24652	63.90	127.50	96	SANGARY
24656	63.50	129.40	79	BATAMAJ
24661	64.00	130.30	208	SEGEN - KYUEL'
24671	63.95	135.87	380	Tompo
24688	63.27	143.15	725	Oymyakon,AS
24713	62.88	108.43	246	NAKANNO
24724	63.00	112.30	422	CHERNISHEVSKII
24738	62.15	117.65	125	Suntar,AMSG
24763	62.82	134.43	119	Krest-Khaldzhay
24768	62.00	132.60	186	CURAPCA
24790	62.78	148.17	645	SUSUMAN
24856	61.50	129.20	115	POKROVSK
24891	61.90	147.42	670	Kulu
24908	60.33	102.27	259	Vanavara,AS
24918	60.05	108.08	292	Preobrazhenka,AMSG
24923	60.70	114.90	234	LENSK
24944	60.40	120.42	223	Olyekminsk
24951	60.80	125.30	118	ISIT'
24959	62.08	129.75	98	Yakutsk,GMO
24962	60.90	131.90	146	AMGA
24966	60.38	134.45	169	Ust' - Maya
25138	68.12	164.17	98	OSTROVN0E
25206	67.45	153.72	22	Sredhekolymsk

25325	66.55	159.42	125	Ust' - Oloy
25356	66.38	173.33	78	EN' MUVEEM
25428	65.23	160.53	260	Omolon
25503	64.75	153.97	101	Korkodon
25526	64.25	161.07	373	Kegali
25563	64.78	177.57	64	Anadyr'
25705	62.45	152.32	264	Srednekan
25715	62.52	155.78	542	Omsukchan
26059	59.37	28.60	17	Kingisepp
26069	59.40	30.10	90	BELOGORKA
26094	59.70	33.60	61	TIHVIN
26099	59.50	34.70	171	Yephimovskaya
26157	58.70	27.80	40	GDOV
26179	58.52	31.28	24	Novgorod
26264	58.20	29.10	128	STRUGI_KRASNYE
26268	57.80	29.90	70	DNO
26275	58.00	31.30	24	STARAJA_RUSSA
26285	58.30	32.50	63	KRESTCY
26298	57.90	34.10	213	BOLOGOE
26359	57.00	28.90	108	PUSKINSKIE_GORY
26378	57.20	31.20	71	HOLM
26381	57.70	32.50	62	DEMJANSK
26389	57.10	33.10	217	OSTASKOV
26393	57.58	34.57	167	Vyschniy Volochek
26477	56.40	30.60	99	VELIKIE_LUKI
26499	56.50	34.93	185	STARITSA
26585	55.90	32.90	214	BELYJ
26695	55.20	34.40	250	VJAZ'MA
26795	54.40	34.00	238	SPAS-DEMINSK
26882	53.97	32.85	219	Roslavl'
26894	53.50	33.80	177	DJUKOVKA
26896	53.75	34.73	193	Zhizdra
26898	53.20	34.30	196	BR'JNSK
26976	53.00	31.60	148	KRASNAJA_GORA
26997	52.60	33.80	178	TRUBCEVSK
27008	59.40	35.90	137	BABAEVO
27026	59.60	39.30	133	KOROBOVO
27051	59.97	42.75	134	Tot'ma
27066	59.53	45.45	141	Nikolsk
27083	59.90	48.30	180	OPARINO
27097	59.40	48.90	213	MURASI
27108	58.60	35.60	144	OHONY
27164	58.82	44.32	150	Yekimtsevo (Kologriv)
27208	57.80	35.88	140	MAKSATIKHA
27242	58.50	41.50	103	BUJ
27243	58.40	42.40	132	GALITCH
27252	58.40	43.40	150	NIKOLO-POLOMA
27271	58.40	45.60	139	SAR'JA
27277	57.90	45.80	136	VETLUGA
27281	58.30	47.10	166	SABALINO
27283	58.30	48.40	127	KOTEL'NIC
27316	57.40	37.60	138	KASIN
27321	57.50	38.30	122	UGLIC'
27329	57.20	39.40	101	ROSTOV
27331	57.60	39.80	129	JAROSLAVL'
27333	57.73	40.95	137	Kostroma
27346	57.43	42.17	125	Kineshma
27355	57.30	43.10	132	JUR'EVEC
27369	57.10	45.20	110	KRASNYE_BAKI
27373	57.70	46.60	175	SAKUN'JA
27393	57.60	49.90	135	NOLINSK

27402	56.90	35.90	137	TVER
27417	56.30	36.80	167	KLIN
27428	56.40	38.80	185	ALEKSANDROV
27441	56.90	41.40	98	SHU' J
27462	56.80	44.50	130	Semenov
27479	56.35	43.57	108	Kozmodemyansk
27480	56.90	47.30	103	SANCHURSK, AMSG
27491	57.00	48.70	143	NOVYJ_TOR' JAL
27502	56.10	35.90	198	VOLOKOLAMSK
27507	55.50	35.00	196	GAGARIN
27509	55.50	36.00	185	MOZAJSK
27511	55.90	36.80	162	NOVO - JERUSALIM
27523	55.80	38.70	135	PAVLOV - POSAD
27532	56.10	40.40	172	VLADIMIR
27549	55.60	42.00	119	MUROM
27577	55.50	45.50	125	SERGAC
27581	56.10	47.10	163	CEBOKSARY
27587	55.50	47.50	183	KANAS
27606	55.00	36.50	197	MALOJAROSLAVEC
27611	55.40	36.80	193	NARO - FOMINSK
27618	54.90	37.50	166	SERPUHOV
27625	55.10	38.70	114	KOLOMNA
27643	55.30	42.20	114	VYKSA
27648	54.95	41.77	132	Yelat'ma
27653	55.40	43.70	127	ARZAMAS
27665	55.00	44.50	219	LUKOJANOV
27675	55.18	46.33	121	Poretskoye
27679	54.90	46.60	180	ALATYR'
27697	54.90	48.90	156	TETJUSI
27703	54.50	36.20	201	KALUGA
27707	54.10	35.30	238	SUHINICI
27719	54.20	37.70	203	TULA
27729	54.20	39.00	166	MIHAJLOV
27736	54.30	40.90	99	SILOVO
27745	54.40	41.90	115	SASOVO
27752	54.60	43.20	139	TEMNIKOV
27758	54.10	43.30	198	TORBEEVO
27760	54.20	45.10	201	SARANSK
27799	54.20	49.70	73	DIMITROVGRAD
27817	53.40	36.50	201	MCENSK
27821	54.00	38.20	231	UZLOVAJ'
27823	53.80	39.30	209	PAVELEC
27835	53.80	40.12	125	Ryazhsk
27848	53.50	41.80	142	MORSANSK
27858	53.30	43.30	261	PACELMA
27891	53.97	48.80	85	Sengiley
27894	53.60	48.80	143	NOVODEVIC'E
27906	53.00	36.00	200	OREL
27921	53.20	38.10	215	EFREMOV
27928	52.70	38.50	168	ELEC
27930	52.60	39.60	183	LIPECK
27935	52.90	40.50	158	MICURINSK
27957	52.65	42.72	169	Kirsanov
27962	53.13	45.02	169	Penza
27995	53.00	49.40	46	BEZENCHUK
28033	59.75	60.00	228	Karpinsk
28224	58.02	56.30	171	PERM'
28367	57.15	65.50	79	Tyumen' AMSG
28383	57.50	72.40	67	TEVRIZ
28409	56.40	52.20	169	MOZGA
28418	56.47	53.73	125	Sarapul

28465	56.70	66.40	61	JALUTOROVSK
28491	56.90	72.70	87	BOL 'SIE -UKI
28493	56.90	74.38	71	Tara,AMSG
28502	56.20	51.10	84	VJATSKIE_POLJANY
28517	55.60	53.10	112	MENZELINSK
28573	56.10	69.43	81	Ischim,AMSG
28586	55.90	72.20	118	TUKALINSK
28593	56.10	74.60	77	BOL 'SEREC 'E
28601	55.30	50.60	179	CISTOPOL '
28611	55.30	53.20	80	MUSLJUMOVO
28645	55.15	61.30	234	CHELYABINSK -GOROD
28698	54.93	73.40	89	Omsk,AMSG
28704	54.50	50.40	78	CULPANOVO
28705	54.40	51.10	158	CELNO -VERSINY
28711	54.60	52.80	304	BUGUL 'MA
28719	54.00	54.20	348	AKSAKOV0
28748	54.10	61.60	192	TROITSK
28786	54.40	71.80	125	POLTAVKA
28797	54.20	72.90	125	ODESSKOE
28799	54.20	74.80	115	CERLAK
28806	53.60	52.40	92	BUGURUSLAN
28903	53.00	52.05	81	Borovoye, wood farm
28908	52.60	51.30	88	AVANGARD_ZERNOSOVHOZ
29023	59.90	81.90	76	NAPAS
29068	59.50	91.00	67	NAZIMOVO
29111	59.22	78.23	62	Sredniy Vasyugan
29128	58.70	81.50	63	PARABEL '
29209	57.80	77.30	100	MAISK
29231	58.30	82.90	74	KOLPASEV
29253	58.40	89.40	137	LOSINOBOBSK
29282	58.42	97.40	131	Boguchany
29313	57.60	79.20	97	PUDINO
29328	57.10	81.90	107	BAKCHAR
29332	57.58	83.78	110	Molchanovo
29348	57.10	86.20	115	PERVOMAJSKOE
29363	57.60	92.30	179	PIROVSKOE
29393	57.65	99.53	219	Chervyanka
29405	56.60	76.60	95	KYSTOVKA
29418	56.40	78.40	126	SEVERNOE
29430	56.43	84.97	137	Tomsk
29456	56.50	89.30	205	TUCHTET
29464	56.70	90.60	231	BOL 'SHOY -ULU 'J
29471	56.90	93.10	180	BOL 'SAJA_MURTA
29481	56.90	95.20	188	DZERZINSKOE
29498	56.40	98.40	221	SHITKINO
29524	55.90	80.00	129	KRESCENKA
29541	56.07	85.62	250	Tayga
29551	56.20	87.75	139	Mariinsk,AMSG
29552	56.10	88.60	222	T 'JGIN
29553	56.20	89.60	291	BOGOTOL
29557	55.80	88.30	211	TISUL '
29563	56.10	92.20	479	KATCHA
29570	56.00	92.70	275	KRASNOJARSK
29576	55.80	94.30	375	UJAR
29587	55.60	95.50	252	IRBE 'ISKOE
29594	55.95	98.00	302	Tayshet
29602	55.30	76.80	111	CANY
29605	55.20	75.97	111	Tatarsk
29612	55.37	78.40	120	Barabinsk
29613	55.30	79.60	140	UBINSKOE
29625	55.10	80.97	141	Chulym

29626	55.00	82.20	159	KOCENEVO
29631	55.30	82.80	137	KOLYVAN'
29632	55.30	83.60	214	MOSHKOVO
29636	55.20	84.40	151	TOGUCIN
29638	54.90	82.95	131	NOVOSIBIRSK (OGOURTSOVO)
29649	55.00	86.80	151	KRAPIVINO
29653	55.30	89.80	387	UZUR
29654	55.20	87.70	495	CENTRAL'NY-RUDNIK
29675	55.10	93.40	477	KOLBA
29676	55.30	94.90	337	AGINSKOE
29706	54.37	77.28	1168	Kupino,AMSG
29712	54.70	78.70	113	ZDVINSK
29724	54.30	80.50	165	KOCKI
29726	54.40	81.90	134	ORDINSKOE
29735	54.30	83.50	293	POSEVNAJ
29736	54.30	84.20	198	MASLJANINO
29752	54.80	88.80	1183	NENASTNA'J
29756	54.50	89.90	475	SHIRA
29759	54.20	89.40	847	KOMMUNAR
29766	54.40	92.10	282	IDRINSKOE
29813	53.90	79.20	144	KRASNOZERSK,AMSG
29814	53.70	78.10	115	KARASUK
29816	53.60	79.60	138	KCHABARY
29822	53.80	81.30	146	KAMEN' - NA - OBI
29827	53.30	80.80	122	BAEVO
29832	53.80	83.60	144	TAL'MENKA
29838	53.33	83.70	153	Barnaul
29848	53.50	85.90	272	TOGUL
29849	53.30	87.20	293	KUZEDEEVO
29862	53.80	91.30	256	KCHAKASSKAI'J
29864	53.70	90.40	525	UYBAT
29866	53.70	91.70	255	Minusinsk
29869	53.30	92.40	298	ERMAKOVSKOE
29915	53.97	78.65	123	Slavgorod
29923	53.10	82.30	214	REBRICA
29937	52.50	82.80	175	ALEJSKAJA
29939	52.68	84.95	227	Biysk-zonalnaya
29946	52.83	87.27	3548	Kondoma
29956	52.80	89.90	455	TASTYP
29962	53.10	90.90	468	BE'J
29974	52.80	93.23	1404	Olenya rechka
30054	59.45	112.58	186	Vitim
30089	59.02	121.83	172	Dzhikimda
30138	58.10	108.70	245	CECUIISK
30157	58.30	112.90	224	MAMA
30229	57.30	107.10	271	VERCHNE-MARKOVO
30230	57.77	108.12	256	Kirensk
30252	57.82	114.17	244	MAMAKAN
30328	56.10	105.80	338	ORLINGA
30337	56.30	107.70	357	KAZACHENGKOYE
30372	56.92	118.37	708	Chara
30385	56.60	121.50	426	UST' - NJUKZA
30393	56.83	124.87	844	Chul'man,AMSG
30433	55.80	109.60	479	NIZNEANGARSK
30455	55.50	113.60	1097	UAKIT
30457	55.27	113.13	1085	Baunt
30469	55.12	116.75	612	Kalakan
30471	55.90	117.50	750	SREDNI' - KALAR
30493	55.97	124.88	861	Nagorny
30499	55.20	124.70	513	TYNDA
30504	54.60	100.63	524	Tulun, exper.field

30507	54.20	100.10	527	IKEJ
30514	54.20	103.00	418	UST-UDA
30537	54.00	108.30	464	SOLNECNA'J
30554	54.50	113.60	995	BAGDARIN
30555	54.60	113.10	1314	TROICKY'-PRIISK
30576	54.40	119.90	644	TUPIK
30603	53.90	102.10	458	ZIMA
30606	53.55	102.50	449	Zalari
30612	54.00	103.00	427	BALAGANSK
30618	53.20	103.80	446	BOKCHAN
30627	53.10	105.53	757	Bayanday
30635	53.40	108.90	461	UST'-BARGUZIN
30636	53.62	109.63	489	Barguzin
30650	53.20	112.80	923	ROMANOVKA
30664	53.70	115.80	811	TUNGOKOCEN
30673	53.70	119.80	625	MOGOCA
30682	53.90	120.90	472	AMAZAR
30683	53.97	121.93	591	Yerophey Pavlovich
30686	53.50	122.40	295	IGNASINO
30692	54.00	123.90	398	SKOVORODINO
30695	53.50	123.90	266	DZALINDA
30729	52.05	106.65	466	Kabansk
30731	53.00	108.30	487	GORJACINSK
30739	52.20	109.80	666	HORINSK
30741	52.80	109.90	1286	ZAMOKTA
30745	52.53	111.55	452	Sosnovo-Ozersk
30758	52.02	113.33	662	Chita,GMO
30764	52.70	115.20	646	USUGLI
30765	52.55	116.20	533	Zyul'zya
30766	52.50	117.00	539	CERNYSHEVSK
30768	52.00	116.50	482	NERCINSK
30772	52.70	118.80	407	UST'-KARSK
30777	52.27	117.70	527	Sretensk
30811	51.73	102.53	720	Tunka
30823	51.80	107.43	514	Ulan-Ude,city
30829	51.10	106.70	556	NOVO-SELENGINSK
30844	51.35	110.50	806	Khilok
30846	51.40	112.50	743	ULETY
30853	51.60	114.30	616	KARYMSKA'J
30859	51.12	114.55	682	Aginskoye
30862	51.90	116.00	597	SILKA
30874	51.70	117.60	715	SHELOPUGINO
30879	51.32	119.62	621	Nerchinskiy zavod
30925	50.37	106.45	791	Kyakhta
30934	50.60	107.60	638	BICHURA
30935	50.40	108.80	771	KRASNYJ_CIKOJ
30938	49.43	108.85	934	Menza
30949	49.57	111.97	907	Kyra
30957	50.28	113.28	730	Aksha
30961	50.90	115.60	640	OLOVJANNAJA
30965	50.38	116.52	675	Borzya
30967	49.90	115.80	623	SOLOV'EVSK
30971	50.90	117.90	807	ALEKSANDROVSKIJ_ZAVOD
30972	50.90	118.60	694	DONO
30975	50.30	119.10	521	PRIARGUNSK
30978	49.80	118.40	550	KAJLASTUJ
31005	58.97	126.27	283	Tommot
31026	58.73	130.62	194	Uchur,AMSG
31062	59.77	137.67	380	Yugarenok
31088	59.37	143.20	8	Okhotsk
31152	57.65	136.15	326	Nel'kan

31286	54.72	135.30	9	Chumikan
31329	53.07	132.93	540	Ekimchan,AMSG
31373	53.00	128.70	332	OKTJBRSKI'-PRIISK
31392	52.80	131.70	359	STOI'BA
31418	52.30	135.80	201	VESELAJA_GORKA
31439	52.40	140.50	35	BOGORODSKOE
31443	51.60	128.80	161	MAZANOVO
31445	51.40	128.00	196	SVOBODNYJ
31474	51.60	133.30	385	UST'-UMAL'TA
31478	52.27	133.98	902	Sophiyskiy Priisk
31489	51.20	136.80	92	GORIN
31521	50.80	129.30	226	BRATOLJUBOVKA
31527	50.10	129.50	241	ZAVITAJA
31583	49.80	129.90	116	MALINOVKA
31587	49.60	128.70	115	POJARKOVO
31594	49.40	130.10	135	ARHARA
31624	49.40	133.20	198	URMI
31655	49.50	136.60	33	TROICKOE
31733	48.80	135.90	42	ELABUGA
31788	47.10	134.30	77	LERMONTOVKA
31801	47.70	136.20	180	GVASJUGI
31825	47.60	138.40	165	AGZU
31845	46.50	135.30	130	KRASNYJ_JAR
31873	45.87	133.73	62	Iman (Dalnerechensk)
31884	45.40	134.30	139	MALINOVO
31909	45.00	136.60	68	TERNEJ
31921	44.70	132.10	78	ASTRAHANKA
31924	44.40	132.10	128	KCHOROL'
31931	44.90	133.10	99	SVIJAGINO
31935	44.40	133.50	154	JAKOVLEVKA
31939	44.20	133.90	259	CUGUEVKA
31961	43.83	131.95	84	Primorskaya
31969	42.60	130.80	42	POS'ET
31981	43.90	133.10	188	ANUCINO
31987	43.20	133.00	208	PARTIZANSK
32053	51.85	143.13	29	Nogliki
32061	50.90	142.17	30	Alekzandrovsk-Sakh.
32071	50.70	142.70	95	TIMOVSKOE
32077	50.20	142.60	181	ONOR
32088	49.10	142.10	43	UGLEGORSK
32133	47.33	142.80	43	Dolinsk
32150	46.90	142.70	24	JUZNO-SAHALINSK
32158	46.65	142.80	34	Korsakov
32287	57.08	156.70	3	Ust'-Khairyuzovo,AMSG
32408	56.22	162.47	4	Ust'-Kamchatsk
32477	54.30	155.93	13	SOBOLEVO
32539	53.12	157.73	317	Nachiki
32594	51.50	156.50	32	OZERNAJA
34003	52.32	36.30	247	Ponyri
34013	52.50	37.60	179	LIVNY
34056	52.30	43.80	213	RTISCEVO
34063	52.30	45.40	199	PETROVSK
34069	51.90	45.00	206	ATKARSK
34072	52.30	46.40	302	KARABULAK
34098	52.00	48.80	38	PUGACEV
34109	51.20	36.30	192	OBOJAN'
34116	51.30	37.90	217	STARJY_OSKOL
34146	51.40	42.10	106	BORISOGLEBSK
34152	51.55	43.15	157	Balashov
34163	51.63	45.45	202	Oktyabrskiy gorodok
34186	51.40	48.30	111	ERSOV

34199	51.20	49.80	104	OZINKI
34202	50.80	35.80	226	GOTNJA
34213	50.80	37.90	140	NOVYJ_OSKOL
34231	50.90	39.50	115	LISKI
34238	51.50	40.40	154	ANNA
34247	50.40	41.10	92	KALAC
34321	50.20	38.10	112	VALUJKI
34336	49.93	40.57	86	Boguchar
34391	50.20	48.60	25	ALEKSANDROV-GAJ
34432	49.40	40.20	145	CERTKOVO
34740	46.52	41.35	79	GIGANT
35001	52.40	50.50	64	BOL'SAJA_GLUSCICA
35011	52.40	53.10	123	SOROCINSK
35015	52.10	53.60	139	NOVOSERGIEVKA
35037	51.90	58.20	341	AK'JAR
35121	51.75	55.10	109	Orenburg
35125	51.40	56.50	131	BELJAEVKA
35127	51.00	55.60	144	AK-BULAK
35138	51.20	58.57	268	Orsk
36020	52.50	80.20	159	RODINO
36021	52.30	79.10	143	KLUCHI
36022	52.00	80.40	208	VOLCHIKCHA
36034	51.50	81.20	219	RUBCOVSK
36038	51.15	82.20	353	Zmeinogorsk
36058	51.40	86.00	420	CEMAL
36061	52.30	87.20	326	TUROCAK
36064	51.77	87.60	482	YAJLJU
36229	50.27	85.62	977	UST' - KOKSA
36231	50.77	86.13	832	Onguday
36259	50.02	88.68	1758	Kosch-Agach
36307	50.27	95.12	1100	ERZIN
37126	43.73	42.67	2070	SHADZHATMAZ