

Features of cold and warm periods in the depressions of the South- West Baikal region

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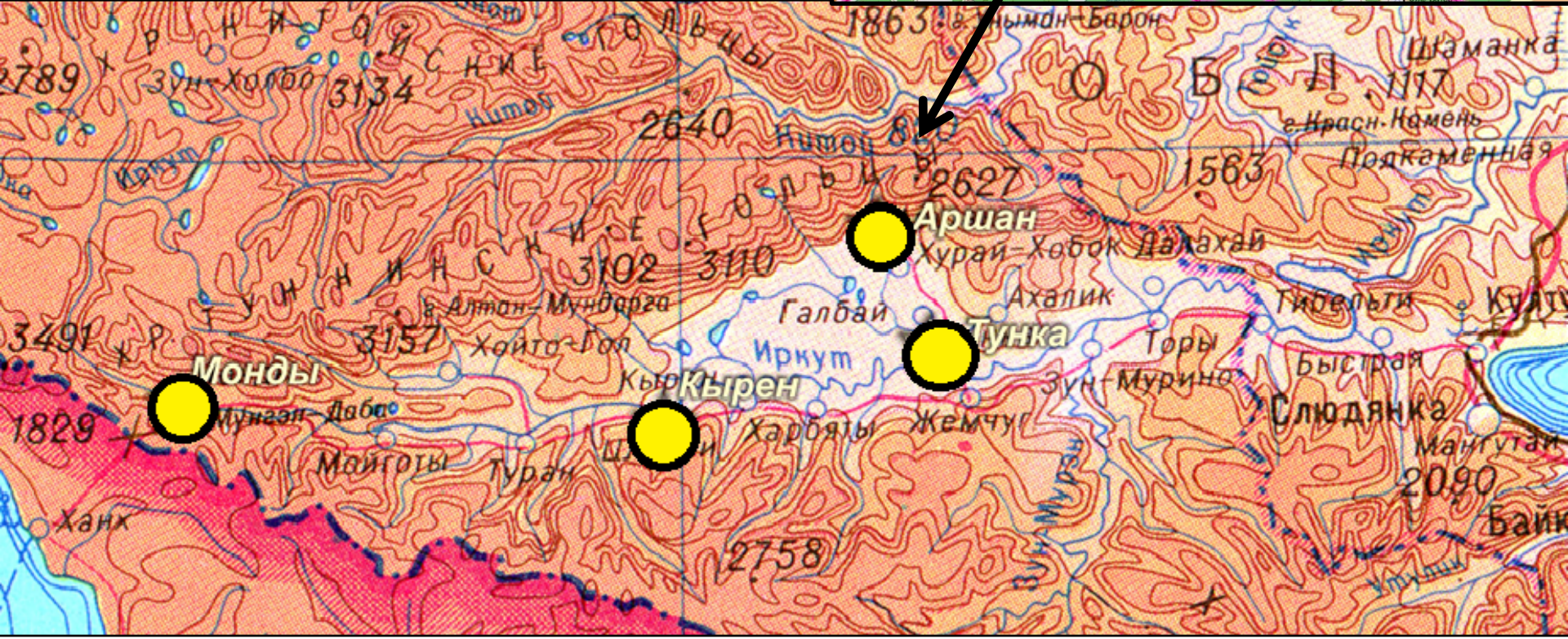
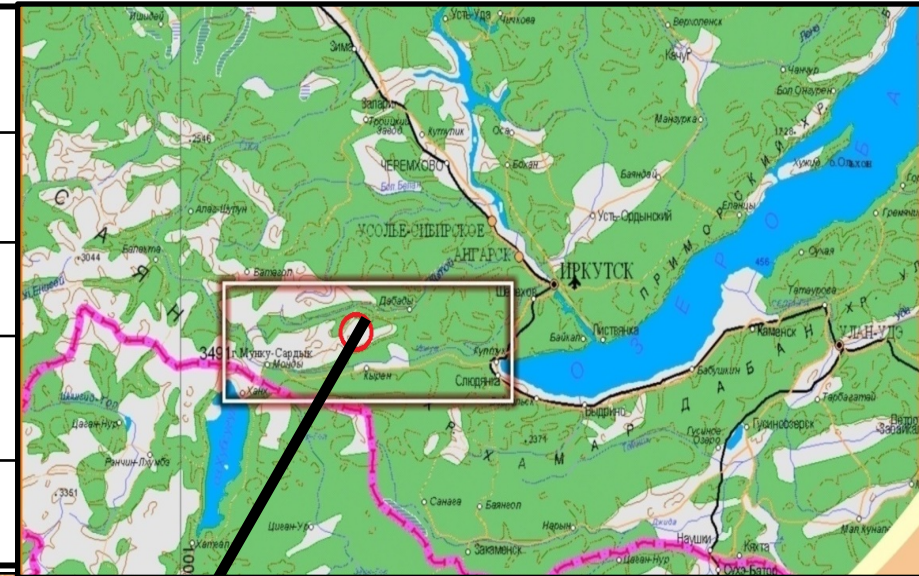
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The area of research

Weather station	Coordinates	Altitude	Period of observation
Arshan	51°55 - 102°26	885 m a.s.l	1910---97
Kiren	51°41- 102°08	755 m a.s.l	1951- ...
Tunka	51°44 - 102°32	721 m a.s.l	1888-....
Mondy	51°41 100°59	1303 m a.s.l	1900 - ...



DEVICES

THERMOCHRON - DS1922L-F5 - thermograph

The range of recorded temperatures:
-40 to +85 ° C

Accuracy temperature recording

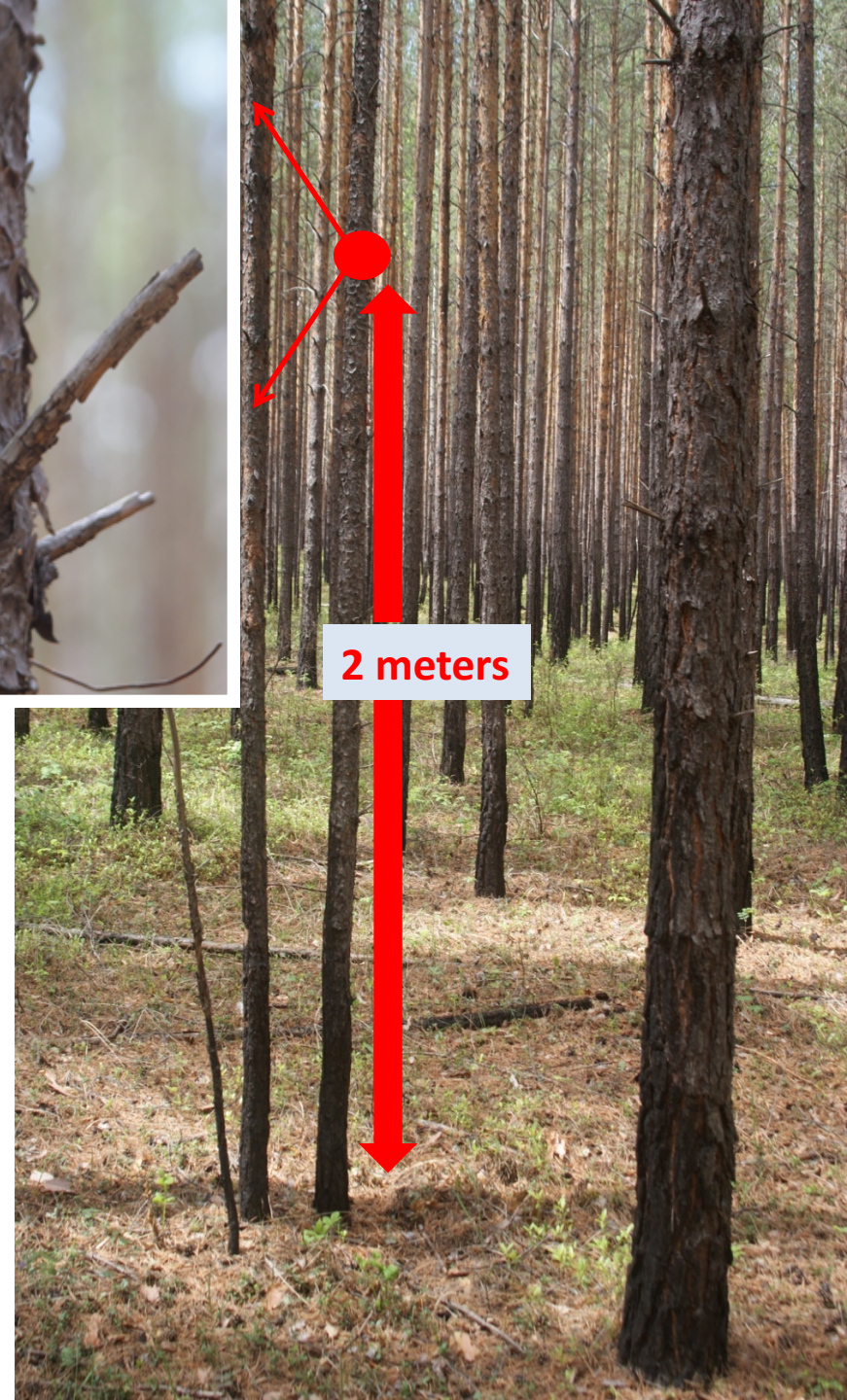
in the range - 10 ° C ... + 65 ° C: $\pm 0,5$ ° C
in the range - 40 ° C ... - 10 ° C: $\pm 0,6$ ° C
in the range + 65 ° C ... + 85 ° C: $\pm 0,9$ ° C

HYGROCHRON - DS1923-F5 - nygrograph

The range of recorded temperatures: -20 ... + 85 ° C,
Relative humidity: 0 ... 100% RH ($\Delta RH = \pm 5\%$ RH)

Database - temperature (temperature and humidity)

frequency of measurements - 3 hours
(synchronous with standard terms on
meteorological stations)

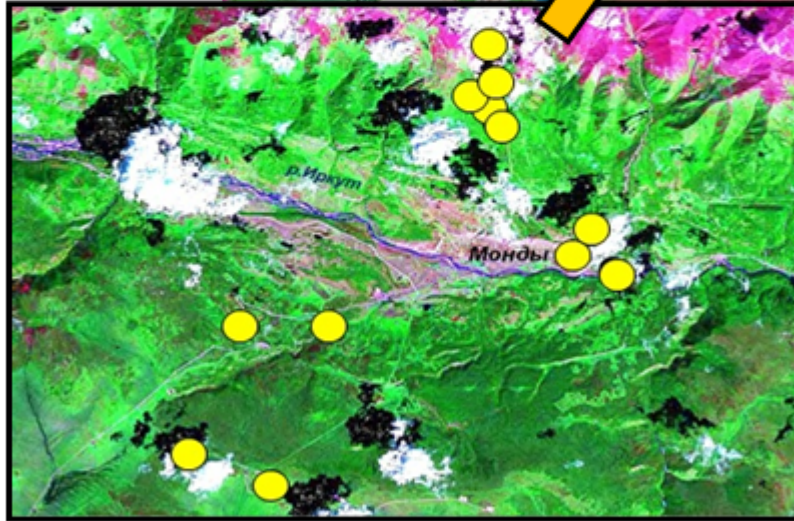


South-West Baikal region

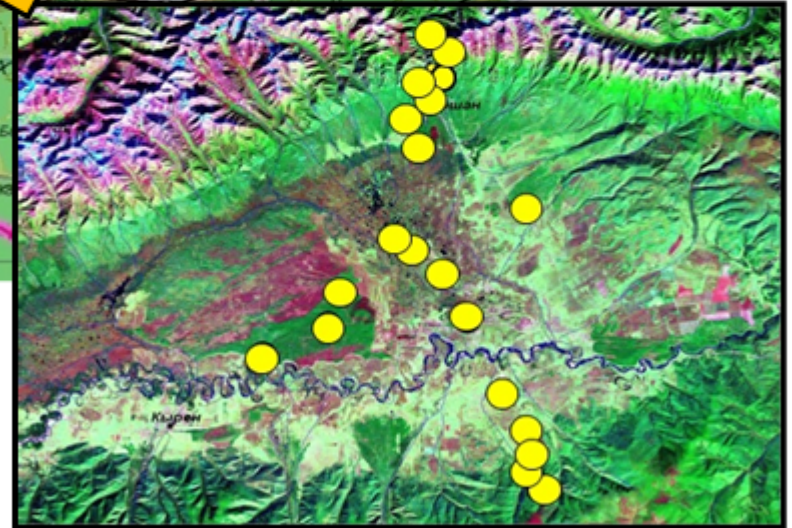
Location of research sites (electronic temperature sensors)

Landscapes:

- Wetlands
- Steppe
- Grasslands
- Forest-steppe
- Tayga
- Goltsy
-



12 model sites are located in the Mondinskaya depression at altitudes from 1274 to 2325 m a.s.l.



43 model sites are located in the Tunkinskaya depression at altitudes from 718 to 2119 m a.s.l.

Features of cold and warm periods

Features of warm periods	Depression	Values of the limits of air temperature			
		0 °C	5 °C	10 °C	15 °C
Date of sustainable transition (early)	Tunka	18.04-25.04	23.04.-10.06	01.06.-08.07.	16.07-19.07
	Mondy	24.04.-20.05	14.05.-15.06.	15.06.-11.07	-
Date of sustainable transition (late)	Tunka	11.10-03.11	26.09-02.10	06.09-07.09	18.03-31.08
	Mondy	04.10-12.10	07.09.-30.09	16.08.-07.09.	-
Duration (days)	Tunka	178-201	164-89	100-70	49-29
	Mondy	170-137	140-86	84-26	-
Average temp. (°C)	Tunka	12,7-8,5	13,7-9,3	16,8-11,9	17,9-15,6
	Mondy	9,5-6,1	11,6-9,1	13,4-10,5	-
Sum of temperatures (°C)	Tunka	2239-924,9	2185-831	1662,7-727,3	964,7-495,4
	Mondy	1775-883,5	1535-750	1159-274	-

Features of cold periods	Depression	Values of the limits of air temperature				
		0 °C	-5 °C	-10 °C	-15 °C	-20 °C
Date of sustainable transition (early)	Tunka	12.10.-05.11.	06.11-05.12	24.11-04.01	08.12-24.01.	06.01.-27.01
	Mondy	04.10.-13.10.	04.11.-02.12.	07.12.-14.12.	04.01.-24.01	2.02.
Date of sustainable transition (late)	Tunka	19.03.-15.05	13.03-18.03	6.03-13.03	19.02-8.03	13.02-19.02
	Mondy	26.03-24.05	17.03-20.03	10.03.-18.03.	6.03.-11.03.	15.02-18.02
Duration (days)	Tunka	216-135	128-96	110-64	91-22	44-22
	Mondy	247-166	138-106	83-96	63-42	14-18
Average temp. (°C)	Tunka	-7,5...-16	-12,7...-19	-14,9...-21	-16,7...-22,7	-21,4...-26,8
	Mondy	-8,5...-12	-10,7...-15	-15,2...-17,7	-17,5...-19,9	-21... -23,4
Sum of temperatures (°C)	Tunka	-1440...-2547	-1223...-2462	-1321...-2324	-419...-2064	-382...-1178
	Mondy	-1676...-2173	-1557...-2051	-904...-1694	-732...-1229	-350...-590

СПАСИБО ЗА ВНИМАНИЕ!

