Table S2. Examined localities of Altai-Sayan region.

|  |  |  |  |
| --- | --- | --- | --- |
| Locality | Biome | Climate | Coordinates |
| Tigireksky Zapovednik | T, DF, G, AG | temp. 0.8˚C, -13.8 to 15.2˚Cprec. 516 to 1500 mmsnow 600 to 2000 mm | N 50°58’47’’E 82°54’25’’ |
| Kuznetsky Alatau | T, DF, AG | temp. -15.5 to 16.5˚Cprec. 566 mmsnow max. 4000 mm | N 54°34’18’’E 88°12’2’’ |
| Sayano-Shushensky Biosphere Reserve | T, DF, AG | temp. -3˚C, -20 to 20˚Cprec. 750 mmsnow 300 to 1500 mm | N 52° 8’ 51’’E 92° 4’ 34’’ |
| Azas Zapovednik | T, DF, G, AG | temp. -5.5˚C, -29 to 15˚Cprec. 343 to 800 mmsnow 300 to 800 mm | N 52°31’37’’E 97°28'53"' |
| Altaisky Zapovednik | T, DF, GA, G | temp. -19.7 to 16˚Cprec. 250-900 mmsnow 1500 mm | N 51°1’56’’E 88°39’31’’ |
| Katunskiy Zapovednik | T, DF, G, AG | temp. -13.2 to 5.7˚Cprec. 882 mmsnow 1000 mm | N 49°41’31’’ E 86°5’10’’  |
| Khubsugul | T, G, AG | temp. -4.5˚C, -26.5 to 14˚Cprec. 247 mmsnow 150 mm | N 51°11’5’’ E 100°35’26’’  |
| Ukok-Sailiugem | G, AG, D | temp. -8.3˚C, -28 to 9˚Cprec. 200 mm, snow 150 mm | N 49°15’ E 87°30’  |
| Uvs Nuur National Park | T, G, AG, D | temp. -3.5˚C, -33 to 21˚Cprec. 200 mm, snow 100 mm | N 49°46’–50°40’ E 90°12’–95°38’  |
| Khar Us Nuur National Park | G, D | temp. -2˚C, -24 to 20˚Cprec. 100 mmsnow <100 mm | N 47°57’44’’ E 92°41’52’’  |
| Mongolian Altai | T, DF, G, AG, D | temp. -0.3˚C, -25.3 to 18˚Cprec. 134 mmsnow 100 mm | N 48°34’42’’ E 88°33’23’’  |
| Khangai | T, G, AG | temp. -6.2˚C, -32 to 15.4˚Cprec. 194 mmsnow <200 mm | N 47°42’47’’ E 99°28’34’’  |

Abbreviations and explanations: Biome categories – T = taiga, DF = deciduous forest, G = grassland, AG = alpine grassland, D = desert; Climate categories – temp. = temperature (average when available, and range), prec. = precipitation in mm, snow = snowfall in mm.

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