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˚C  prec. 516 to 1500 mm  snow 600 to 2000 mm | N 50°58’47’’  E 82°54’25’’ |
| Kuznetsky Alatau | T, DF, AG | temp. -15.5 to 16.5˚C  prec. 566 mm  snow max. 4000 mm | N 54°34’18’’  E 88°12’2’’ |
| Sayano-Shushensky Biosphere Reserve | T, DF, AG | temp. -3˚C, -20 to 20˚C  prec. 750 mm  snow 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˚C  prec. 343 to 800 mm  snow 300 to 800 mm | N 52°31’37’’  E 97°28'53"' |
| Altaisky Zapovednik | T, DF, GA, G | temp. -19.7 to 16˚C  prec. 250-900 mm  snow 1500 mm | N 51°1’56’’  E 88°39’31’’ |
| Katunskiy Zapovednik | T, DF, G, AG | temp. -13.2 to 5.7˚C  prec. 882 mm  snow 1000 mm | N 49°41’31’’  E 86°5’10’’ |
| Khubsugul | T, G, AG | temp. -4.5˚C, -26.5 to 14˚C  prec. 247 mm  snow 150 mm | N 51°11’5’’  E 100°35’26’’ |
| Ukok-Sailiugem | G, AG, D | temp. -8.3˚C, -28 to 9˚C  prec. 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˚C  prec. 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˚C  prec. 100 mm  snow <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˚C  prec. 134 mm  snow 100 mm | N 48°34’42’’  E 88°33’23’’ |
| Khangai | T, G, AG | temp. -6.2˚C, -32 to 15.4˚C  prec. 194 mm  snow <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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