

**The homeland of Proto-Tungusic  
inferred from contemporary words and ancient genomes**

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Supplementary Table S1

**Table S1.** Reconstruction of cultural and ecological vocabulary to Proto-Tungusic based on linguistic comparison of the Tungusic languages

No	Proto-Tungusic reconstruction	Attested Tungusic words
(1)	* <i>sele</i> 'iron'	Evenki <i>sele</i> , Even <i>hel</i> , Negidal <i>sele</i> , Solon <i>sele</i> , Sibe <i>selə</i> , Manchu <i>sele</i> , Jurchen <i>sele</i> , Olcha <i>sele</i> , Orok <i>sele</i> , Nanai <i>sele</i> , Oroch <i>sele</i> and Udehe <i>sele</i> 'iron'
(2)	* <i>pisi-ke</i> 'broomcorn millet ( <i>Panicum miliaceum</i> )'	Manchu <i>fisihe</i> ~ <i>fisike</i> 'glutinous millet, broomcorn millet ( <i>Panicum miliaceum</i> )', <i>fisitun</i> 'a ritual vessel for offering millet; bowl for grinding millet, carved out from a piece of wood' (< <i>fisi</i> + <i>tetun</i> 'utensil'); Olcha <i>pikse</i> ; Nanai <i>pikse</i> 'millet'; Kur-Urmi dialect <i>fisxe</i> 'broomcorn millet ( <i>Panicum miliaceum</i> )'; Jurchen <i>fise bele</i> 'yellow rice; coarse rice' ( <i>bele</i> 'hulled rice, edible grain')
(3)	* <i>jiya-hta</i> 'foxtail millet ( <i>Setaria italica</i> )'	Negidal <i>ja:kta</i> 'foxtail millet ( <i>Setaria italica</i> ), small millet; cleaned grain; oats flour'; Solon <i>jakta</i> 'porridge, food'; Sibe <i>je</i> 'foxtail millet ( <i>Setaria italica</i> )'; Manchu <i>je</i> 'foxtail millet ( <i>Setaria Italica</i> ); grain', Jurchen <i>je bele</i> 'millet'; Nanai <i>jiekte</i> 'foxtail millet ( <i>Setaria Italica</i> )'; Oroch <i>jiekte, jekte, jiekta</i> 'millet', Udehe <i>jakta</i> 'foxtail millet ( <i>Setaria Italica</i> ), porridge'
(4)	* <i>üse- ~ üsi-</i> 'to plant' → * <i>üse~üsi</i> 'seed, seedling' → * <i>üsi-n</i> 'field for cultivation'	Evenki <i>ihaw-</i> 'to grow (of people)'; Even <i>isu:- ~ esu:-</i> 'to sprout, come out (of plants), blossom, grow', Negidal <i>isew-</i> 'to grow, become acclimatized (about plants); mature, grow up (about people)'; Sibe <i>use-</i> 'to sow seeds', <i>use</i> 'seed, grain', <i>usin</i> 'field, farmland'; Manchu <i>use-</i> 'to plant, seed (tr.)', <i>use</i> 'seed; insect egg', <i>usin</i> 'field for cultivation', Jurchen <i>use</i> 'seedling', <i>usi-in</i> 'field', Olcha <i>use</i> 'seed', <i>usun</i> 'field, garden'; Nanai <i>use</i> 'seed', <i>usi</i> 'arable field for cultivation; private garden for cultivating vegetables', Orok <i>usi</i> 'field (farm), garden', <i>usi-</i> 'to cultivate, till; hunt a bear'; Oroch <i>usi</i> 'seeds, grains', <i>usin</i> 'garden for cultivation', <i>usin-</i> 'to sow, to plant in a garden'; Udehe <i>uhi-</i> 'to sow, to plant a garden', <i>uhi</i> 'garden for cultivating plants'
(5)	* <i>tari-</i> 'to sow, plant, cultivate'	Evenki <i>tari- ~ tare- ~ tale-</i> 'to sow'; Solon <i>tari-</i> 'to sow seeds; to plant; to cultivate; to grow; to disseminate; to inject; to infect, to catch a disease', <i>tariŋko</i> 'injector'; Manchu <i>tari-</i> 'to cultivate, farm; to plow'; Jurchen <i>tali- ~ tari-</i> 'to sow, to plant, to cultivate'; Ulcha <i>tari-</i> 'to sow, to plant'; Nanai <i>tari-</i> 'to sow seeds', <i>tariko</i> 'sowing machine', <i>tarici-</i> 'to sow (seeds) regularly'; Udehe <i>tali-</i> 'to plant a garden', <i>tali</i> 'garden for cultivating plants'
(6)	* <i>murgi</i> 'barley ( <i>Hordeum vulgare</i> )'	Manchu <i>muji</i> 'barley ( <i>Hordeum vulgare</i> )', Sibe <i>muji</i> 'barley ( <i>Hordeum vulgare</i> )', Olcha <i>muji</i> 'oats', Nanai <i>muji</i> 'oats', Oroch <i>muji</i> 'barley', Jurchen <i>miryei</i> 'product of agriculture', Solon <i>murgil</i> 'spring crops, spring-sown field'
(7)	* <i>ingamu-hta</i> 'cloudberry ( <i>Rubus chamaemorus</i> )'	Evenki <i>ingamukta</i> , <i>inngamukta</i> 'cloudberry (berry)'; <i>ingamukta-mkurā</i> 'cloudberry (plant)', Even <i>inŋamta</i> 'cloudberry', Oroch <i>in'amukta</i> 'cloudberry', Udehe (Samarga dialect) <i>inamukta</i> 'cloudberry', Olcha <i>in'amuqta</i> 'cloudberry'
(8)	* <i>xiba-gda</i> 'ash tree ( <i>Fraxinus mandshurica</i> )'	Negidal <i>iwagda</i> 'ash tree', Manchu <i>ibadan</i> (mō) 'ash tree', Olcha <i>sīwaGda</i> 'ash tree' Nanai <i>sīwaGda</i> 'ash tree', Oroch <i>iwagda</i> 'ash tree', Udehe <i>joyda</i> 'ash tree'
(9)	* <i>xami-gda</i> 'poplar ( <i>Populus maximowiczii</i> )'	Manchu <i>amida</i> 'poplar', Oroch <i>amigda</i> 'poplar', Udehe <i>amigda</i> 'poplar', Nanai <i>xamigda:</i> 'poplar'

(10)	* <i>kilden</i> 'linden (Tilia amurensis)'	Evenki <i>kilden</i> 'linden', Oroch ' <i>kigde</i> 'linden', Olcha <i>kigde</i> 'linden', Nanai <i>kilde</i> : 'linden'
(11)	* <i>molon</i> 'maple (Acer ukurunduense)'	Evenki <i>monon</i> 'maple', Negidal <i>monon</i> 'maple', Manchu <i>molo mo</i> : 'maple', Oroch <i>mono</i> 'maple', Udehe <i>mono</i> 'maple', Olcha <i>mono</i> 'maple', Nanai <i>mono</i> : 'maple'
(12)	* <i>koldon</i> 'Korean pine (Pinus koraiensis)'	Evenki (Urmi dialect near Amur region) <i>koldon</i> 'Korean pine', <i>koldok</i> 'forest of Korean pines', Negidal <i>koldon</i> 'cedar; board, scaffold', Negidal <i>koldomo</i> 'made of cedar; boards', Oroch <i>ko:gdo(n)</i> 'cedar', <i>koŋko ~ kuŋko ~ kuaŋko ~ kogdo</i> 'Korean pine (pinus koraiensis)', Olcha <i>koldō</i> , <i>koldo(n)</i> 'cedar', <i>koldomo</i> 'made of cedar', Orok <i>koldo mo:n'i</i> 'cedar', Nanai <i>koldō</i> 'cedar', <i>koldo-ma</i> 'made of cedar', Manchu <i>xoldon</i> 'Siberian pine', Jurchen <i>huō-tò mōh</i> 'pine, spruce', <i>hondo mo</i> 'pine tree' Most dictionaries translate this word into Russian <i>кедр</i> 'cedar' which is a general term for both Siberian and Korean pine, but by default people living in the Russian Far East mean Korean pine.
(13)	* <i>bolgi-hta</i> 'creeping pine (Pinus pumila)'	Evenki <i>bolgi-hta</i> 'dwarf pine', <i>bolgi-tta</i> 'pine seed, willow', <i>bolgi-g</i> 'a brushwood of dwarf pines', Even <i>bolgi-y ~ bolgi-qay</i> 'a brushwood of dwarf pines', Negidal <i>bolgi-hta</i> 'dwarf pine (Pinus pumila)', <i>bolgiy</i> 'a brushwood of dwarf pines', Orok. <i>boŋita ~ bo:jta</i> 'dwarf pine', <i>boŋi ~ bo:ji</i> 'a brushwood of dwarf pines', Oroch <i>boggi-hta</i> 'dwarf pine', <i>boggi-nai</i> 'a brushwood of dwarf pines', Udehe (Samarga dialect) <i>bogbö</i> 'dwarf pine; stocked (about plants, forest)', Olcha <i>boljiqta</i> 'a brushwood, a nut tree'
(14)	* <i>jagda</i> 'pine tree (in general)'	Evenki <i>jagda</i> 'pine', <i>jagda-g</i> 'pine forest', Solon <i>jagda</i> 'pine', Even <i>jayde</i> 'pine', <i>jayda-y</i> 'pine forest', Negidal <i>jagda</i> 'pine', <i>jagday</i> 'pine forest', Olcha <i>jagda</i> 'pine', Nanai <i>ja:gda</i> 'pine', <i>ja:gda-ma</i> 'made of pine', Manchu <i>žakdan mo</i> : 'pine', Jurchen <i>čāb-pūh</i> 'forest'