

Table S2: Ring-width series from the ITRDB for parameterizing the growth process.

Species	Timespan	Series counts	Locations	Product name	Reference
<i>Abies densa</i>	1720–2006	48	Bhutan	bt020	Cook et al., 2010
<i>Abies forestii</i>	1348–2013	1176	China	chin018; chin019; chin021; chin025; chin026; chin027; chin028; chin075	Cook et al., 2010; Li et al., 2017
<i>Abies recurvata</i>	1489–2005	183	China	chin038; chin039	Fan et al., 2013
<i>Abies spectabilis</i>	1420–2013	1285	Nepal	nepa001; nepa001e; nepa001i; nepa001n; nepa001x; nepa002; nepa002e; nepa002i; nepa002n; nepa002x; nepa003; nepa009; nepa011; nepa013; nepa014; nepa015; nepa017; nepa019; nepa020; nepa021; nepa022; nepa023; nepa026; nepa027; nepa028; nepa031; nepa032; nepa034; nepa035; nepa036; nepa038; nepa043; nepa046; nepa047; nepa048; nepa049; nepa050; nepa051; nepa052; nepa053; nepa055	Schweingruber et al., n.d.; Krusic et al., n.d.; Gaire et al., 2011; Gaire et al., 2014; Kharal et al., 2014; Kharal et al., 2017; Gaire et al., 2017
<i>Cupressus chengiana</i>	1575–2007	120	China	chin016	Cook et al., 2010
<i>Juniperus przewalskii</i>	-994–2643	2069	China; Qinghai	chin005; chin006; chin050; chin051; chin052; chin053; chin054; chin055; chin060; chin061; chin062; chin063; chin064; chin067; chin068; chin069; chin070; chin071	Sheppard et al., n.d.; Shao et al., 2013; Yang et al., 2014
<i>Juniperus recurva</i>	1417–2006	103	Bhutan; Nepal	bt018; bt019; nepa010; nepa018	Cook et al., 2010; Krusic et al., n.d.
<i>Juniperus tibetica</i>	128–2010	1539	China	chin017; chin020; chin024; chin043; chin044; chin045; chin046; chin048; chin059; chin065; chin066; chin074	Cook et al., 2010; Brauning et al., 2013; Shao et al., 2013; Wang et al., 2014
<i>Larix gmelinii</i>	1570–2020	183	Mongolia	mong007e; mong007i; mong007l; mong007n; mong007t; mong007w; mong007x	Schweingruber et al., n.d.
<i>Larix griffithiana</i>	1620–2006	46	Bhutan	bt016; bt017	Cook et al., 2010
<i>Picea likiangensis</i>	1406–2007	648	China	chin022; chin023; chin037; chin042; chin047; chin049	Cook et al., 2010; Fan et al., 2013; Brauning et al., 2013
<i>Picea schrenkiana</i>	1605–2004	521	China	chin007; chin008; chin009; chin010; chin011; chin012; chin013; chin014; chin015; chin033; chin034	Cook et al., 2010
<i>Picea spinulosa</i>	1280–2013	508	Bhutan	bt006; bt007; bt008; bt009; bt010; bt011; bt021	Cook et al., 2010; Krusic et al., 2015
<i>Pinus armandii</i>	1359–2005	361	China	chin004; chin004e; chin004i; chin004n; chin004x; chin056; chin057; chin058	Wu et al., n.d.; Shao et al., 2013
<i>Pinus roxburghii</i>	1650–2015	480	Bhutan; Nepal; Uttaranchal	bt014; bt015; indi011; indi020; nepa007; nepa033; nepa040; nepa057; nepa060	Cook et al., 2010; Borgaonkar et al., n.d.; Krusic et al., n.d.; Zuber et al., n.d.; Thapa et al., 2019
<i>Pinus sylvestris</i>	1626–2008	177	Mongolia	mong005; mong034; mong035; mong036; mong037; mong038	Jacoby et al., n.d.; Pederson et al., 2013
<i>Pinus tabulaeformis</i>	1774–2007	57	China	chin072	Shi et al., 2012
<i>Pinus wallichiana</i>	1625–2016	345	Bhutan; Nepal	bt012; bt013; nepa005; nepa008; nepa056; nepa058; nepa059; nepa061	Cook et al., 2010; Krusic et al., n.d.; Thapa et al., 2019
<i>Pinus yunnanensis</i>	1942–2017	76	China	chin076; chin077; chin078; chin079; chin080	Sun et al., n.d.
<i>Taxus baccata</i>	1630–2003	90	Bhutan	bt022	Cook et al., 2008
<i>Tsuga dumosa</i>	856–2016	943	Bhutan; China; Nepal	bt001; bt002; bt003; bt004; bt005; chin038; chin039; chin040; chin041; chin087; nepa004; nepa012; nepa016; nepa029; nepa030; nepa039; nepa041; nepa042	Cook et al., 2010; Fan et al., 2013; Jiang et al., 2017; Krusic et al., n.d.