S1 Table. The updated fossil *Pseudolarix* *amabilis*

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| --- | --- | --- | --- | --- | --- |
| Location | Longitude | Latitude | Organ | Age | References |
| Hlavačov gravel and sand, Bohemia | 13.7 °E | 50.1 °N | Cone scale | Late Oligocene/early Miocene | Bůžek and Kvaček [1]; Teodoridis [2]; Teodoridis and Sakala [3] |
| Okanagan Highlands, Southern British Columbia, Canada, and Northeastern Washington State, USA | 120.0–127.0 °W | 48.7–55.0 °N | Cone scale, pollen and seed | Eocene | Dillhoff et al. [4]; Greenwood et al. [5]; Dillhoff et al. [6]; Moss et al. [7]; Smith et al. [8]; Mathewes et al. [9]; Moss et al. [10] |
| Dembi and Amgu, Far East of Russia | 137.7 °E | 45.8 °N | Cone scale and seed | Oligocene | Akhmetiev et al. [11] |
| Qaidam Basin, China | 95.0 °E | 37.0 °N | Pollen | Pleistocene | Jiang and Robbins [12] |
| Demura, Fukui City, Japan | 136.0 °E | 36.0 °N | Seed | Early Miocene | Atsushi [13] |
| Muravyov-Amurskii Peninsula, Amur Bay, Sea of Japan | 43.3 °E | 132.0 °N | Unknown | Cretaceous | Volynets [14]; Volynets [15] |
| Enmyvaam River Basin, Central Chukotka, Northeastern Russia | 174.0 °E | 68.0 °N | Leaf | Late Cretaceous | Moiseeva and Sokolova [16] |
| Axel Heiberg Island, Canadian High Arctic | 89.0 °W | 79.9 °N | Pollen | Middle Eocene | Richter and LePage [17] |
| Meleto, Valdarno, Italy | 11.8 °E | 43.8 °N | Seed and pollen | Pliocene | Fischer and Butzmann [18] |
| Janggi Basin, Korea | 129.5 °E | 36.0 °N | Cone scale | Early Miocene | Paik et al. [19] |
| Yuyao, Zhejiang, China | 121.2 °E | 30.0 °N | Cone scale and seed  | Pliocene | Li [20]; Li and Guo [21] |
| Tiantai County, Zhejiang, China | 121.2 °E | 29.2 °N | Bract-scale complex | Late Miocene | This study |

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