Supplementary Material

Supplementary Table 2. The taxon distributed with the Shandong Peninsula as the boundary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Family | Species  | Northernmost boundary | Southernmost boundary | Endemic species |
| [Amaranthaceae](https://www.iplant.cn/info/Amaranthaceae) | *Amaranthus polygonoides* |  |  | √ |
| *Lycoris squamigera* | √ |  |  |
| Apocynaceae | *Trachelospermum jasminoides* | √ |  |  |
| [Betulaceae](https://www.iplant.cn/info/Betulaceae) | *Carpinus mengshanensis* |  |  | √ |
| [Boraginaceae](https://www.iplant.cn/info/Boraginaceae) | *Trigonotis radicans* |  | √ |  |
| *Trigonotis tenera* |  |  | √ |
| [Compositae](https://www.iplant.cn/info/Compositae) | *Atractylodes koreana* |  | √ |  |
| [Crassulaceae](https://www.iplant.cn/info/Crassulaceae) | *Phedimus floriferus* |  |  | √ |
| *Sedum uniflorum*var.*japonicum* |  |  | √ |
| [Cyperaceae](https://www.iplant.cn/info/Cyperaceae) | *Carex jiaodongensis* |  |  | √ |
| *Carex wahuensis*subsp*. robusta* |  |  | √ |
| Elaeagnaceae | *Elaeagnus macrophylla* | √ |  |  |
| [Eriocaulaceae](https://www.iplant.cn/info/Eriocaulaceae) | *Eriocaulon taishanense* | √ |  |  |
| Euphorbiaceae | *Glochidion puberum* | √ |  |  |
| *Sapium japonicum* | √ |  |  |
| Geraniaceae | *Geranium koreanum* |  |  | √ |
| *Agrostis infirma* |  |  | √ |
| *Zoysia macrostachya* | √ |  |  |
| [Juglandaceae](https://www.iplant.cn/info/Juglandaceae) | *Pterocarya rhoifolia* |  |  | √ |
| [Lamiaceae](https://www.iplant.cn/info/Lamiaceae) | *Salvia weihaiensis* |  |  | √ |
| [Lauraceae](https://www.iplant.cn/info/Lauraceae) | *Lindera erythrocarpa* | √ |  |  |
| *Lindera glauca* | √ |  |  |
| *Machilus thunbergii* | √ |  |  |
| [Leguminosae](https://www.iplant.cn/info/Leguminosae) | *Maackia amurensis* |  | √ |  |
| *Vicia kulingana* | √ |  |  |
| [Liliaceae](https://www.iplant.cn/info/Liliaceae) | *Allium taishanense* |  |  | √ |
| *Lilium tsingtauense* |  |  | √ |
| *Liriope spicata* var*. humilis* |  |  | √ |
| *Smilax china* | √ |  |  |
| Molluginaceae | *Mollugo verticillata* | √ |  |  |
| Orchidaceae | *Cleisostoma scolopendrifolium* | √ |  |  |
| Primulaceae | *Primula jesoana* |  | √ |  |
| *Primula loeseneri* |  | √ |  |
| Ranunculaceae | *Anemone raddeana* |  | √ |  |
| *Anemone shikokiana* |  |  | √ |
| *Caltha palustris*var.*sibirica* |  | √ |  |
| *Clematis fusca* |  | √ |  |
| *Clematis patens* |  | √ |  |
| *Delphinium grandiflorum* |  |  | √ |
| *Clematis hexapetala* |  |  | √ |
| Rhamnaceae | *Rhamnus koraiensis* |  | √ |  |
| *Rhamnus laoshanensis* |  |  | √ |
| [Rosaceae](https://www.iplant.cn/info/Rosaceae) | *Pyrus trilocularis* |  |  | √ |
| *Rosa maximowicziana* |  | √ |  |
| [Rubiaceae](https://www.iplant.cn/info/Rubiaceae) | [*Spermacoce shandongensis*](https://www.iplant.cn/info/Spermacoce%20shandongensis) |  |  | √ |
| Rutaceae | *Zanthoxylum armatum* | √ |  |  |
| Sabiaceae | *Meliosma myriantha* | √ |  |  |
| *Meliosma oldhamii* | √ |  |  |
| *Salix luzhongensis* |  |  | √ |
| [Scrophulariaceae](https://www.iplant.cn/info/Scrophulariaceae) | *Torenia taishanensis* |  |  | √ |
| [Stemonaceae](https://www.iplant.cn/info/Stemonaceae) | *Stemona shandongensis* | √ |  |  |
| Symplocaceae | *Symplocos chinensis* | √ |  |  |
| Theaceae | *Camellia japonica* | √ |  |  |
| Tiliaceae | *Tilia amurensis* |  | √ |  |
| *Tilia amurensis* |  | √ |  |
| *Tilia jiaodongensis* |  |  | √ |
| *Tilia taishanensis* |  |  | √ |
| [Umbelliferae](https://www.iplant.cn/info/Umbelliferae) | *Carlesia sinensis* |  | √ |  |
| *Ligusticum ajanense* |  | √ |  |
| [Verbenaceae](https://www.iplant.cn/info/Verbenaceae) | *Vitex negundo* | √ |  |  |