

A PRELIMINARY LIST OF THE RARE AND CRITICAL VASCULAR PLANTS OF JAPAN (2)

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ANGIOSPERMAE

Dicotyledoneae

Pyrolaceae

Pyrola faurieana ANDR. Hokkaido. Iwate : Mt. Iwate. Miyagi : Mt. Karita. Isolated and the southernmost limit.

Ericaceae

Ledum palustre L. var. *decumbens* AIT. Kamikawa : Mts. Daisetsu; Mt. Buri. Isolated.

Menziesia goyozanensis KIKUCHI Iwate : Mt. Goyo. Endemic.

Rhododendron amagianum MAKINO Shizuoka : Mt. Amagi. Kanagawa: Hakone. Endemic.

R. keiskei MIQ. var. *minimum* YAMAZAKI Kagoshima : Is. Yakushima. Endemic.

R. komiyamae MAKINO Shizuoka : Mts. Ashitaka ; Mt. Tenshigadake. Endemic.

R. leiopodium HAYATA var. *amamianum* OHWI Kagoshima : Is. Amami-oshima. Endemic.

R. makinoi TAGG. Aichi : Mt. Horaiji. Shizuoka : Sejiri National Forest. Endemic.

R. mayebarae NAKAI et HARA Kumamoto : Kurobaru. Miyazaki : Mt. Iwato. Endemic.

R. metternichii SIEB. et ZUCC. subsp. *yakushmanum* SUGIMOTO. Kagoshima : Is. Yakushima. Endemic.

R. parvifolium ADAM. Nemuro : Nemuro. Isolated.

R. sanctum NAKAI. Mie : Mt. Asama. Aichi : Horaicho. Shizuoka : Shibukawa. Endemic.

R. yakuinsulare MASAM. Kagoshima : Is. Yakushima. Endemic.

R. yedoense MAXIM. var. *poukanense* NAKAI Nagasaki : Tsushima. Isolated.

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- Vaccinium amamianum* HATUS. Kagoshima : Is. Amamioshima. Endemic.
V. microcarpum SCHMALL Hokkaido. Aomori : Mts. Hakkoda. Gunma : Oze.
 Nagano: Kirigamine. Isolated and southernmost limit.
V. yakushimense MAKINO Kagoshima: Is. Yakushima. Endemic.

Primulaceae

- Androsace lehmanniana* SPRENG. Hokkaido. Iwate : Mt. Hayachine. Isolated and southernmost limit.
Lysimachia candida LINDL. Tochigi : Kamimikawa-cho. Isolated.
L. ohsumiensis HARA Kagoshima : Osumi Peninsula. Endemic.
Primula hidakana MIYABE et KUDO Tokachi : Mt. Tokachi; Mt. Toyoni. Hidaka: Mt. Apoi. Endemic.
P. ohsumiensis HARA Hidaka: Mt. Kamui. Endemic.
P. kisoana MIQ. Tochigi: Mt. Narukami. Ehime: Mt. Ishizuchi; Mt. Nishi-akaishi. Endemic and isolated.
P. macrocarpa MAXIM. Iwate: Mt. Hayachine. Endemic.
P. modesta BISSET et MOORE var. *samanimontana* NAKAI Kamikawa: Souunkyo. Hidaka : Mt. Apoi. Endemic.
P. reinii FR. et SAV. Saitama : Mt. Daido. Yamanashi : Mt. Koma; Mt. Kentoku. Nagano : Mt. Hijiri ; Mt. Osawa; Mts. Yatsugadake. Endemic.
P. reinii FR. et SAV. var. *myogiensis* HARA Gunma: Mt. Myogi. Endemic.
P. sorachiana MIYABE et TATEWAKI Ishikari : Kanayama. Endemic.
P. takedana TATEW. Teshio : Nupuromapporo. Endemic.
P. tosaensis YATABE var. *rhodotricha* OHWI Saitama : Mt. Buko. Endemic.
P. yeparensis TAKEDA Sorachi : Mt. Yubari. Endemic.

Oleaceae

- Forsythia japonica* MAKINO Okayama: Niimi; Mitsu-cho; Fukuto-cho. Hiroshima: Taishakukyo. Endemic.
F. japonica MAKINO var. *subintegra* HARA Kagawa: Is. Shodo. Endemic.

Gentianaceae

- Gentiana algida* PALL. var. *igarashii* MIYABE et KUDO Kamikawa: Mts. Daisetsu. Endemic.
G. aquatica L. Nagano : Mts. Yatsugadake. Isolated.
G. jamesii HEMSL. var. *robusta* Ohwi Niigata: Mt. Iide. Endemic.
G. laeviuscula TOYOKUNI Nagano : Mt. Shiomi. Yamanashi : Mt. Kitadake. Shizuoka: Mt. Usagi. Endemic.
G. yakumontana MASAM. Kagoshima: Is. Yakushima. Endemic.
Gentianella contorta HAND.-MZT. Nagano: Jumoji-toge; Hasemura. Isolated.
G. secta SATAKE Nagano : Mt. Shiomi. Yamanashi : Mt. Kitadake. Shizuoka : Mt. Arakawa. Endemic.

Gentianella takedae SATAKE Nagano : Mts. Shirouma; Mts. Yatsugadake. Shizuoka : Mt. Arakawa. Endemic.

G. yabei HARA Nagano : Mts. Shirouma. Endemic.

G. yuparensis SATAKE Sorachi : Mt. Yubari. Kamikawa : Mts. Daisetsu. Endemic.

Lomatogonium carinthiacum REICHB. Nagano : Mts. Shirouma ; Mts. Yatsugadake Shizuoka : Mt. Arakawa. Isolated.

Swertia noguchiana HATUS. Shizuoka : Shimoda. Endemic.

Apocynaceae

Apocynum venelum L. var. *basikurmon* HARA Nemuro : Shiretoko Peninsula. Abashiri : Shari. Shiribeshi : Oshoro. Aomori : Hirauchi-cho. Niigata : Iwamuro-mura. Endemic.

Asclepiadaceae

Cynanchum calcareum OHASHI Kochi : Mt. Ishidate. Endemic.

C. doianum KOIDZ. Kagoshima : Ichiki-mura. Endemic.

Polemoniaceae

Polemonium acutifolium WILLD. var. *nipponicum* OHWI Nagano : Mts. Shirouma. Yamanashi : Mt. Kitadake; Mt. Hoo. Endemic.

P. kiushianum KITAM. Miyazaki : Takachiho-cho. Kumamoto : Ichinomiya-cho. Endemic.

Boraginaceae

Hackelia deflexa OPIZ Hokkaido. Nagano : Mt. Togakushi ; Ueda. Isolated and southernmost limit.

Omphalodes prolifera OHWI Aichi : Mt. Jokoji. Endemic.

Trigonotis icumae MAKINO Nagano : Karuizawa-cho; Saku-shi ; Usuda-cho. Endemic.

T. radicans STEV. Kumamoto : Ichinomiya-cho ; Namino-mura. Isolated.

Verbenaceae

Callicarpa takakumensis HATUS. Kagoshima : Mt. Takakuma. Endemic.

Labiatae

Ajuga incisa MAXIM. Tokyo : Mt. Izugadake. Saitama : Mt. Ryojin. Gunma : Mt. Narukami. Endemic.

Clinopodium micranthum HARA var. *yakushimense* HARA Kagoshima : Is. Yakushima. Endemic.

C. multicaule O. KUNTZE var. *minimum* OHWI Nara : Mt. Kasuga. Kagoshima. Endemic.

Meehania montiskoyae OHWI Wakayama : Mt. Koya. Hyogo : Mt. Funakoshi. Endemic.

Salvia koyamae MAKINO Nagano : Kitamimaki-mura ; Usuda-cho ; Matsubara Lake.

Endemic.

Scutellaria tusimensis HARA Nagasaki : Tsushima. Isolated.

Teucrium teinense KUDO Hokkaido. Yamagata : Mt. Gassan. Endemic and isolated.

Scrophulariaceae

Euphrasia hachijoensis NAKAI Tokyo : Is. Hachijo; Is. Mikura. Endemic.

E. insignis WETTST. Aichi : Mt. Jokoji, Shiga : Mt. Ibuki. Endemic.

E. maximowiczii WETTST. var. *calcareae* YAMAZAKI Nagano : Hase-mura; Bunkui-toge. Endemic.

E. microphylla KOIDZ. Ehime : Mt. Ishizuchi ; Mt. Sasagamine ; Mt. Akai-shi. Endemic.

Gratiola fluviatilis KOIDZ. Kyoto : Kamigamo. Kagoshima : Is. Amamioshima. Isolated.

Lagotis takedana MIYABE et TATEW. Sorachi : Mt. Yubari. Endemic.

L. yezoensis TATEW. Kamikawa : Mts. Daisetsu. Endemic.

Mazus delavaii BONATI Miyazaki : Agata. Kagoshima : Is. Yakushima. Isolated and the northernmost limit.

Pedicularis resupinata L. var. *microphylla* HONDA Aichi : Toyohashi ; Rikuda-cho. Shizuoka : Handa; Hikima. Endemic.

Veronica kiusiana FURUMI var. *kitadakemontana* YAMAZAKI Yamanashi : Yashajin-toge. Nagano : Hase-mura. Endemic.

V. onoei FR. et SAV. Nagano : Utsukushigahara; Mts. Asama. Endemic,

V. subsessilis CARR. Shiga : Mt. Ibuki. Endemic.

Veronicastrum tagawae YAMAZAKI Wakayama : Kozagawa-cho. Endemic.

V. villosum YAMAZAKI Gifu : Tarui-cho ; Ikeda-cho. Endemic.

Lentibulariaceae

Pinguicula racemosa MIYOSHI Tochigi : Mt. Nyoho ; Mt. Nantai ; Mt. Koshin. Endemic.

Rubiaceae

Galium dahuricum TURCZ. Hokkaido. Isolated.

G. triflorum MICHX. Nagano : Mts. Yatsugadake. Isolated.

G. yakushimense MASAM. Kagoshima : Is. Yakushima. Endemic.

Hedyotis chrysotricha MERR. Nagasaki : Mogi. Kumamoto : Nishihara-cho ; Amakusa-cho. Isolated.

Caprifoliaceae

Abelia chinensis R. BR. var. *ionandra* MASAM. Kagoshima : Is. Amamioshima. The northernmost limit.

Lonicera alpigera L. var. *viridissima* NAKAI Yamanashi : Mt. Kushigata. Nagano : Mt. Senjo; Mt. Shiraiwa. Shizuoka : Mt. Senmai. Endemic.

L. demissa REHD. var. *borealis* HARA et KIKUCHI Iwate : Mt. Todorii ; Mt.

- Himekami ; Mt. Murone ; Mt. Rokkakugyu ; Mt. Goyo. Endemic.
Lonicera harae MAKINO Nagasaki : Tsushima. Isolated.
- L. linderifolia* MAXIM. Iwate : Mt. Hayachine ; Mt. Himekami ; Mt. Goyo. Endemic.
- L. linderifolia* MAXIM. var. *konoii* OKUYAMA Nagano : Mts. Yatsugadake ; Mt. Arakawa. Endemic.
- L. maackii* MAXIM. Iwate : Mt. Hayachine ; Tsuchibuchi, Nagano : Sugadaira, Karuizawa-cho, Minamimaki-mura. Endemic.
- L. mochizukiana* MAKINO var. *filiiformis* KOIDZ. Ehime : Mt. Higashiakaishi ; Mt. Nishiakaishi. Endemic.
- Triosteum pinnatifidum* MAXIM. Yamanashi : Mt. Kushigata ; Santomi-mura. Isolated.
- T. sinuatum* MAXIM. Nagano : Sugadaira ; Mt. Moriya ; Kanazawa-toge ; Saku-shi ; Minamimaki-mura. Isolated.
- Viburnum carlesii* HEMSL. Nagasaki : Tsushima. Isolated.
- V. carlesii* HEMSL. var. *bitchiuense* NAKAI Okayama : Niimi-shi. Hiroshima : Taishakukyo. Kagawa : Is. Shodo. Ehime : Is. Tojima. Fukuoka : Mt. Kawara ; Hiraodai. Endemic.
- V. koreanum* NAKAI Shiribeshi : Mt. Tengu. Ishikari : Jozankei. Hidaka : Mts. Hidaka. Isolated.
- V. luzonicum* ROLF var. *tashiroi* HATUS. Kagoshima : Is. Amamioshima. Endemic.
- Weigela praecox* L. H. BAILEY Fukuoka : Mt. Kosho. Endemic.
- Valerianaceae
- Patrinia triloba* MIQ. var. *kozushimensis* HONDA Tokyo : Is. Kozu ; Is. Mikura. Endemic.
- P. triloba* MIQ. var. *takeuchiana* OHWI Kyoto : Mt. Aoba. Endemic.
- Campanulaceae
- Adenophora hatsusimae* KITAM. Miyazaki : Shiiba-mura. Endemic.
- A. maximowicziana* MAKINO Kochi : Mt. Yokogura ; Nanokawa-mura. Ehime : Oonogahara. Endemic.
- A. palustris* KOMAR. Aichi : Shitara-cho. Okayama : Tetsunishi-cho ; Bichu-cho. Isolated.
- A. stricta* MIQ. Nemuro. Akita : Mt. Yakeyama. Isolated.
- A. takedae* MAKINO var. *howozana* SUGIMOTO Yamanashi : Mt. Hoo. Endemic.
- A. tashiroi* MAKINO et NAKAI Nagasaki : Is. Fukue. Isolated.
- A. teramotoi* HURUSAWA ex YAMAZAKI Yamanashi : Mt. Kitadake. Nagano : Hase-mura. Endemic.

Adenophora triphylla A. DC. var. *puellaris* HARA Ehime : Mt. Higashiakaishi ; Mt. Nishiakaishi. Endemic.

Campanula glomerata L. var. *dahurica* FISCH. Ooita : Mt. Kuju, Kumamoto : Mt. Aso. Isolated.

Compositae

Ainsliaea linearis MAKINO Kagoshima : Is. Yakushima. Endemic.

Anaphalis sinica HANCE var. *pernivea* T. SHIMIZU Nagano : Hase-mura. Endemic.

Antennaria dioica GAERTN. Soya : Is. Rebun. Abashiri : Sharidake ; Mt. Kumadake.

Arnica mallotopus MAKINO Honshu (Japan Sea side). Kochi : Mt. Tsurugi. Isolated.

Artemisia glomerata LEDEB. Yamanashi : Mt. Kitadake. Nagano : Mt. Kisokoma. Isolated.

A. *kitadakensis* HARA et KITAM. Yamanashi : Mt. Kitadake. Nagano : Mt. Senmai ; Mt. Arakawa ; Mt. Akaishi. Endemic.

Aster dubius ONNO var. *angustifolius* HARA et KITAM. Hidaka : Mt. Apoi. Endemic.

A. *dubius* ONNO var. *heterotrichus* KITAM. Gunma : Mt. Shibutsu ; Mt. Tanigawa. Endemic.

A. *rugulosus* MAXIM. var. *shibukawaensis* KITAM. et MURATA Shizuoka : Shibukawa. Endemic.

A. *sohayakiensis* KOIDZ. Wakayama : Torohaccho, etc. Endemic.

Chrysanthemum togakushiense KITAG. et NAGAMI Nagano : Mt. Togakushi. Endemic.

C. *yoshinaganthum* MAKINO Tokushima : Aioi-cho. Endemic.

Eupatorium yakushimense MASAM. et KITAM. Kagoshima : Is. Yakushima. Endemic.

Heteropappus koidzumianus KITAM. Ooita : Yabakei. Endemic.

H. *leptocladus* MATSUM. Kochi : Kochi-shi, etc. Endemic.

Hypochaeris crepidioides TATEW. et KITAM. Hidaka : Mt. Apoi. Endemic.

Ixeris dentata NAKAI subsp. *shiranensis* KITAM. Tochigi : Mt. Shirane. Endemic.

I. *dentata* NAKAI subsp. *kitayamensis* MURATA Wakayama : Torohaccho. Endemic.

Leontopodium discolor BEAUV. Kushiro. Soya : Is. Rebun. Isolated.

L. *fauriei* HAND.-MZT. Akita : Mt. Chokai. Yamagata : Mt. Gassan ; Mt. Asahi. Iwate : Mt. Komagadake. Fukushima : Mt. Iide. Endemic.

L. *fauriei* HAND.-MZT. Gunma : Mt. Shibutsu ; Mt. Tanigawa. Endemic.

L. *hayachinense* HARA et KITAM. Iwate : Mt. Hayachine. Endemic.

L. *hayachinense* HARA et KITAM. var. *miyabeanum* S. WATANABE Shiribeshi : Mt. Oobira. Endemic.

L. *japonicum* MIQ. var. *perniveum* KITAM. Nagano : Hase-mura. Endemic.

Ligularia hodgsoni HOOK. f. var. *sachalinensis* KOIDZ. Soya : Is. Rishiri ; Is. Rebun. Isolated.

- Myriactis japonensis* KOIDZ. Kagoshima : Is. Yakushima. Endemic.
- Paraixeris yoshinoi* NAKAI Okayama : Niimi-shi ; Nariwa-cho ; Bicchu-cho. Hiroshima : Taishakukyo. Endemic.
- Saussurea chinophylla* TAKEDA Tokachi : Mt. Totsutabetsu. Sorachi : Mt. Yubari. Endemic.
- S. *inaensis* KITAM. Nagano : Oojika-mura. Endemic.
- S. *insularis* KITAM. Nagasaki : Tsushima. Endemic.
- S. *riederii* HERDER Hokkaido. Iwate : Mt. Hayachine. Akita : Mt. Chokai ; Mt. Yakeishi. Isolated.
- S. *riederii* HERDER subsp. *kuboana* KITAM. Hidaka : Mt. Apoi. Endemic.
- Senecio argunensis* TURCZ. Ooita : Kokonoe-cho. Isolated.
- S. *furusei* KITAM. Saitama : Mt. Futago. Endemic.
- Syneilesis aconitifolia* MAXIM. var. *longilepis* KITAM. Kyoto : Shiroyoshi-cho. Endemic.
- S. *tagawae* KITAM. Kochi : Aki-shi. Endemic.

Monocotyledoneae

Sparganiaceae

- Sparganium angustifolium* MICHX. Sorachi : Mt. Yubari. Isolated.
- S. *gramineum* GEORGI Niigata. Isolated.
- S. *hyperboreum* LAEST. Kamikawa : Mts. Daisetsu. Isolated.

Potamogetonaceae

- Potamogeton dentatus* HAGSTR. Ibaragi : Teganuma. Chiba : Inbanuma. Isolated.
- P. *filiiformis* PERS. Kushiro : Toro Lake. Isolated.
- P. *pusillus* L. Honshu and Shikoku. Isolated.

Najadaceae

- Najas japonica* NAKAI Honshu, Shikoku and Kyushu. Endemic.
- N. *oguraensis* MIKI Middle and west Honshu, Shikoku and Kyushu. Endemic.
- N. *tenuicaulis* MIKI Niigata, Nagano and Tottori. Endemic.
- N. *yezoensis* MIYABE Kushiro. Endemic.

Sagittariaceae

- Sagittaria natans* PALL. Tokachi : Shikaribetsu Lake. Isolated.

Hydrocharytaceae

- Blyxa leiosperma* KOIDZ. Yamagata, Fukushima, Aichi, Kumamoto and Kagoshima.
- Vallisneria biwaensis* OHWI Shiga : Biwa Lake. Oosaka : Yodogawa River. Endemic.
- V. *gigantea* GRAEBN. var. *higoensis* KITAM. Kumamoto : Kiba River ; Kikuchi River ; Etsu Lake. Endemic.

Triuridaceae

Sciaphila takakumensis OHWI Kagoshima : Mt. Takakuma ; Takeshima. Endemic.

Gramineae

Agropyron tsukushiense OHWI Nagasaki : Tsushima. Endemic.

Agrostis hideoi OHWI Toyama : Mts. Shirouma. Endemic.

Calamagrostis neglecta GAERTN. Hokkaido. Yamagata : Mt. Zao. Gunma : Oze. Nagano : Kirigamine; Mt. Tadeshina. Isolated.

C. tashiroi OHWI Ehime : Mt. Ishizuchi. Kyushu.

Chikusichloa aquatica KOIDZ. Yamagata, Nara and Kyushu.

Diarrhena fauriei OHWI Nagano : Azusayama, Minamisaku-gun ; Oojika-mura. Isolated.

Elymus yubaridakensis OHWI Sorachi : Mt. Yubari. Endemic.

Festuca takedana OHWI Toyama : Mts. Shirouma ; Mt. Tsurugi ; Mt. Tateyama. Endemic.

Helictotrichon hideoi OHWI Nagano : Misayama ; Mt. Hakamagoshi. Shizuoka : Mt. Amagi. Endemic.

Hierochloe pluriflora KOIDZ. Sorachi: Mt. Yubari. Endemic.

Poa glauca VAHL. Nagano : Mts. Shirouma; Mts. Yatsugadake. Isolated.

P. hayachinensis KOIDZ. Kamikawa : Mts. Daisetsu. Sorachi : Mt. Yubari. Iwate : Mt. Hayachine. Endemic.

P. ogamontana R. MOCHIZUKI Akita : Oga Peninsula. Endemic.

Tripogon japonicus OHWI Ibaragi : near Fukuroda. Tochigi : Mt. Kogashi.

Cyperaceae

Carex atroviridis OHWI Kagoshima : Mt. Takakuma; Is. Yakushima. Endemic.

C. bigelowii TORR. Kamikawa : Mts. Daisetsu. Isolated.

C. bipartita ALL. Kamikawa : Mts. Daisetsu. Yamagata : Mt. Azuma. Nagano : Mts. Shirouma ; Mt. Kisokoma ; Mt. Senjo. Yamanashi : Mt. Kitadake. Isolated.

C. capillaris L. Sorachi : Mt. Yubari. Iwate : Mt. Hayachine. Niigata : Mt. Iide. Nagano : Mts. Shirouma. Isolated.

C. chinoi OHWI Nagano : Mt. Tadeshina. Endemic.

C. cyperoides MURR. Kushiro : Akan Lake. Yamanashi : Kawaguchi Lake. Isolated.

C. eleusinoides TURCZ. Kamikawa : Mts. Daisetsu ; Mt. Tomuraushi. Isolated.

C. gynocrates WORMSKJ. Nemuro. Iwate : Mt. Yakeishi. Isolated.

C. hymenodon OHWI Tochigi : Imaichi-shi. Endemic.

C. impura OHWI Okayama : Mt. Hirusen. Endemic.

C. kabanovii V. KRECZ. Kamikawa : Mts. Daisetsu ; Mt. Chubetsu. Isolated.

C. kimurae OHWI et T. KOYAMA Kagoshima : Is. Tokunoshima. Endemic.

C. kujuzana OHWI Ooita : Mt. Kuju. Isolated.

C. kujuzana OHWI var. *dissitipicula* T. KOYAMA Iwate : Morioka ; Mt. Hikami.

Nagano : Karuizawa. Endemic.

- C. laevissima* NAKAI Oosaka : Kanoko-onsen. Okayama. Isolated.
- C. laxa* WAHLENB. Ishikari : Horomui. Iburi : Tomakomai ; Washibetsu. Iwate : Hachimantai ; Harukoyachi. Tochigi : Nikko. Isolated.
- C. lehmannii* DREJER Nagano : Mt. Senjo. Isolated.
- C. livida* WILLD. Kamikawa : Mts. Daisetsu ; Mt. Chubetsu.
- C. loliacea* L. Kushiro : Mt. Akan. Iwate : Mt. Goyo. Isolated.
- C. mayebarana* OHWI Kumamoto : Mt. Ichifusa. Kagoshima : Mt. Kirishima. Endemic.
- C. oligosperma* MICHX. Nemuro, Ishikari, Iburi. Iwate : Takizawa-mura. Isolated.
- C. omurae* T. KOYAMA Shizuoka : Abe-toge. Aichi : Mt. Dando. Nagasaki : Mt. Tara. Endemic.
- C. pallida* C. A. MEY. Hokkaido. Iwate : Yamagata to Hinozawa ; Geibikei. Isolated.
- C. pauciflora* LIGHTF. Hokkaido. Fukushima : Mt. Azuma ; Oze. Nagano : Mt. Naeba. Isolated.
- C. paupercula* MICHX. Iwate : Hachimantai. Fukushima : Mt. Azuma. Nagano : Mt. Myoko ; Mt. Ontake. Ishikawa : Mt. Hakusan. Isolated.
- C. paxii* KÜKENTH. Okayama : Ichinomiya-mura. Isolated.
- C. peiktusanii* KOMAR. Nagano : Mt. Toyoguchi. Isolated.
- C. poculisquama* KÜKENTH. Tochigi : Mt. Iwafune. Yamaguchi : Akiyoshidai. Isolated.
- C. quadriflora* OHWI Kitami. Endemic.
- C. remotiuscula* WAHLENB. Kamikawa : Mts. Daisetsu ; Tenninkyō. Nagano : Kirigamine. Isolated.
- C. rupestris* BELLARD Ishikari. Nagano : Mt. Senjo. Isolated.
- C. sakonis* T. KOYAMA Kagoshima : Is. Amamioshima ; Is. Tokunoshima. Isolated.
- C. shiroumensis* KOIDZ Nagano : Mts. Shirouma ; Mt. Norikura ; Akaishi Mountains. Endemic.
- C. subcernua* OHWI Fukuoka, Oita and Miyazaki. Endemic.
- C. tenuior* T. KOYAMA et CHUANG Kagoshima : Is. Amamioshima.
- C. traiziscana* Fr. SCHM. Kitami, Ishikari and Shiribeshi. Fukushima : Oze. Isolated.
- C. tsushimensis* OHWI Saga : Is. Mawatari. Nagasaki : Tsushima. Endemic.
- C. tumidula* OHWI Ehime : Nakagawa-mura. Endemic.
- C. uda* MAXIM. Hokkaido. Niigata : Mt. Naeba. Nagano : Kirigamine. Isolated.
- Carpha aristata* KÜKENTH. Nagasaki. Isolated.
- Cyperus diaphanus* SCHRADER Aomori. Isolated.
- C. niigatensis* OHWI Niigata. Endemic.

- C. *odoratus* L. Chiba : Sodegaura ; Nagau; Onjuku; Tateyama. Kagoshima : Is. Amamioshima. Isolated.
- Eleocharis acicularis* ROEM. et. SCHULT. Tokushima. Isolated.
- E. *margaritacea* MIYABE et KUDO Kitami, Teshio and Ishikari. Iwate : Harukoyachi. Endemic.
- E. *parvula* LINK Hokkaido. Tokushima and Nagasaki. Isolated.
- Scirpus iseensis* T. KOYAMA et T. SHIMIZU Ise Bay. Endemic.
- S. *karuizawensis* MAKINO Yamanashi : Karinota. Nagano : Karuizawa. Isolated.
- S. *pseudofluitans* MAKINO Fukushima : Kanayama. Endemic.
- Scleria mikawana* MAKINO Chiba : Mobara. Aichi : Futagawa. Shiga : Fuse. Kyoto : Osadano. Kyushu. Endemic.

Araceae

Arisaema ishizuchiense MURATA Ehime : Mt. Ishizuchi. Endemic.

- A. *koidzumianum* KITAM. Fukushima. Endemic.
- A. *seppikoense* KITAM. Mie. Hyogo : Mt. Seppiko. Endemic.

Eriocaulaceae

Eriocaulon hananogoense MASAM. Kagoshima : Is. Yakushima. Endemic.

- E. *nakasimanum* SATAKE Fukuoka : Fukuoka-shi. Endemic.
- E. *ozense* T. KOYAMA Fukushima : Oze. Endemic.
- E. *perplexum* SATAKE et HARA Hidaka : Mt. Apoi. Endemic.

Juncaceae

Juncus hizenensis SATAKE Nagasaki : Muramatsu, Nishisonoki-gun. Endemic.

- J. *potaninii* BUCH. Shiribeshi : Mt. Kamuimetoko. Nagano : Mts. Yatsugadake; Mt. Shiomi. Isolated.
- J. *triceps* ROSTKOVIVS Nemuro. Kamikawa : Mts. Daisetsu. Isolated.
- J. *yakeisidakensis* SATAKE Iwate : Mt. Yakeishi ; Mt. Kurikoma. Fukushima : Oze. Endemic.

Luzula parviflora DESV. Kamikawa : Mts. Daisetsu. Isolated.

Liliaceae

Aletris makigataroi NARUHASHI Kagawa : Kannonji-shi.

Allium idzuense HARA Shizuoka : Shimoda. Endemic.

- A. *togashii* HARA Kagawa : Is. Shodo. Endemic.
- A. *virgunculae* F. MAEKAWA et KITAM. Nagasaki : Is. Hirato. Endemic.

Fritillaria muraiana OHWI Tokushima : Mt. Kotsu. Endemic.

Hosta hypoleuca MURATA Aichi. Endemic.

Japonolirion ozense NAKAI Kitami and Teshio. Gunma : Mt. Shibutsu ; Mt. Tanigawa. Endemic.

Nothoscordum inutile KITAM. Middle Honshu. Endemic.

Protolirion sakuraii DANDY Ishikawa : Mt. Fujisha. Aichi : Mt. Ishimaki. Gifu : Mt.

- Ena. Fukui : Eiheiiji, Sakai-gun. Kyoto : Kyoto-shi. Kagoshima : Is. Amamioshima. Isolated.
- Polygonatum domonense* SATAKE Yamagata : Oguni-cho. Endemic.
- Smilacina robusta* MAKINO et HONDA Tochigi : Nikko. Gunma : Mt. Haruna. Endemic.
- Tricyrtis ishiiiana* OHWI et OKUYAMA Kanagawa : Mt. Tanzawa. Shizuoka : Mt. Kenashi. Endemic.
- T. macrantha* MAXIM. Kochi : Hayama-mura. Miyazaki : Mt. Kirishima. Endemic.
- T. macranthopsis* MASAM. Mie. Wakayama : Mt. Nachi ; Mt. Ooto ; Kizetsukyo. Endemic.
- T. ohsumensis* MASAM. Kagoshima : Mt. Takakuma. Endemic.
- T. perfoliata* MASAM. Miyazaki : Mt. Osuzu. Endemic.
- Trillium amabile* MIYABE et TATEW. Iburi, Oshima and Akita. Endemic.

Burmanniaceae

- Thismia abei* HATUSIMA Tokushima : Mt. Dairyuji ; Sawatani-mura, Naka-gun. Endemic.
- T. tuberculata* HATUSIMA Miyazaki : Mt. Kirishima. Endemic.

Orchidaceae

- Androcorys japonensis* F. MAEKAWA Nagano : Mts. Yatsugadake ; Mt. Asama. Endemic.
- Apostasia nipponica* MASAM. Kagoshima : Is. Yakushima : Is. Tanegashima.
- Calanthe bungoana* OHWI Ooita. Endemic.
- C. fauriei* SCHLTR. Kagoshima. Endemic.
- C. oblanceolata* OHWI et T. KOYAMA Kagoshima : Is. Sakurajima ; Is. Koshikijima. Endemic.
- C. okabeantum* TUYAMA Kagoshima : Is. Yakushima ; Is. Tanegashima ; Is. Nakanoshima ; Is. Okinoerabu. Isolated.
- C. schlechteri* HARA Iwate, Nagano and Kochi. Endemic.
- C. uraiense* HAYATA Kagoshima : Is. Amamioshima ; Is. Tokunoshima. Isolated.
- Didickea japonica* HARA Nagasaki : Mt. Tara. Endemic.
- Epipogium aphyllum* SWARTZ Hokkaido. Gunma : Oze. Tochigi : Nikko. Saitama : Chichibu. Nagano : Mts. Yatsugadake ; Akaishi Mountains. Isolated.
- E. japonicum* MAKINO Iwate, Niigata, Tochigi and Yamanashi. Endemic.
- Eulophia ochobiensis* HAYATA Kagoshima : Is. Tanegashima. Isolated.
- Galeola altissima* REICHB. f. Kagoshima : Is. Tanegashima ; Is. Yakushima ; Is. Amamioshima ; Is. Tokunoshima. Endemic.
- Gastrochilus ciliare* F. MAEKAWA Kagoshima : Is. Yakushima. Endemic.

Gymnadenia fujisanensis SUGIMOTO Kanagawa : Mt. Tanzawa. Shizuoka : Mt. Fuji.
Endemic.

Habenaria yezoensis HARA Iburi : Tomakomai. Endemic.

Hancockia japonica F. MAEKAWA Kagoshima : Is. Yakushima. Endemic.

Herminium monorchis R. BR. Kushiro, Tokachi and Aomori. Isolated.

Kitigorochis itoana F. MAEKAWA Nagano : Mts. Yatsugadake. Yamanashi : Mt. Kuzugata. Endemic.

Lecanorchis trachycauda OHWI Tokushima, Wakayama and Kagoshima. Endemic.

Liparis platybolba HAYATA Kagoshima : Is. Amamioshima. Endemic.

Malaxis paludosa Sw. Kitami. Aomori : Mt. Hakkoda. Gunma : Oze. Tochigi : Nikko.
Isolated.

Oberonia variabilis KERR Tokyo : Is. Mikura. Miyazaki and Kagoshima. Isolated.

Odontochilus hatusimanus OHWI et T. KOYAMA Kagoshima : Mt. Takakuma. Endemic.

O. inabai HAYATA Kagoshima : Is. Yakushima. Isolated.

Platanthera hyperborea LINDL. Sorachi : Mt. Yubari. Nagano : Mts. Shirouma ; Mt. Amakazari. Isolated.

Poneorchis kurokamiana F. MAEKAWA Saga : Mt. Kurokami. Endemic.

Saccolabium ciliaris OHWI Kagoshima : Is. Yakushima. Endemic.

Stigmatodactylis sikokianus MAXIM. Wakayama : Mt. Nachi. Shikoku and Kyushu.
Endemic.