

Haruo UEMATSU* : A List of the Plants Distributed
on the Southern Japanese Alps (12)

植 松 春 雄 * 南アルプス産植物目録 (十二)

PTERIDOPHYTA

POLYPODIACEAE

Crypsinus hastata (THUNB.) COPEL.

Distr. : (1) B, D, F (2) Hokkai-
do, Honshu, Shikoku and
Kyushu (3) Ryukyus, Korea,
Manchuria, China and Formo-

sa.

Note : *Fagus*-zone, 1,500m, rare.

Crypsinus veitchii (BAK.) COPEL.

Distr. : (1) A, B, C, E, F (2)
Hokkaido, Honshu and Shi-
koku (3) Korea, Tibet and
China.

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- Note : *Fagus*-zone, 1,500m, rare.
- Lemmaphyllum microphyllum* PRESL
Distr. : (1) D, F (2) Honshu,
Shikoku and Kyushu.
- Note : *Machilus*-zone and *Castanea*-
zone, 300-800m, rare.
- Lepisorus annuifrons* (MAKINO) CHING
Distr. : (1) D, F (2) Hokkaido,
Honshu, Shikoku and Kyushu.
- Note : *Machilus*-zone, 300-600m,
rare.
- L. onoei* (FR. et SAV.) CHING
Distr. : (1) D, E, F (2) Hokkaido,
Honshu, Shikoku and Kyushu.
(3) Korea.
- Note : *Machilus*-zone, 500m, comm-
on.
- L. thunbergianus* (KAULF.) CHING
Distr. : (1) A, B, C, D, F (2)
Hokkaido, Honshu, Shikoku
and Kyushu. (3) Korea, Fo-
rmosa, China, Annan and Phi-
lippine.
- Note : *Machilus*-zone, 500m, comm-
on.
- L. ussuriensis* (REGEL) CHING var.
distans (MAKINO) TAGAWA
Distr. : (1) D, F (2) Honshu,
Shikoku and Kyushu. (3) Kuriles.
- Note : *Fagus*-zone, 1,500m, rare.
- Loxogramme saziran* TAGAWA
Distr. : (1) D (2) Honshu, Shi-
koku and Kyushu.
- Note : *Machilus*-zone, 300m, rare.
- Polypodium fauriei* CHRIST
Distr. : (1) B (2) Hokkaido,
- Honshu, Shikoku and Kyushu.
(3) Korea and Kuriles.
- Note : *Castanea*-zone, 800m, very
rare.
- Polypodium polyblepharum* (RÖM.) PR.
Distr. : (1) A, B, C, F (2) Honshu,
Shikoku and Kyushu. (3)
Korea.
- Note : *Fagus*-zone, 1,800m, comm-
on.
- var. *intermedium* (TAG.) KURATA
Distr. : (1) D (2) Honshu.
- Note : *Fagus*-zone, 1,400m, very
rare.
- Pyrrosia linearifolia* (HOOK.) CHING
Distr. : (1) A, B, D, F (2) Hokkai-
do, Honshu, Shikoku and Kyu-
shu. (3) Korea, Manchuria,
China and Formosa.
- Note : *Fagus*-zone, 1,000m, comm-
on.
- ASPLENIACEAE
- Asplenium incisum* THUNB.
Distr. : (1) A, C, D, F (2) Hokkai-
do, Honshu, Shikoku and Kyu-
shu. (3) Kuriles, Korea,
Kamchatka, Manchuria and
China.
- Note : *Castanea*-zone, 800m, comm-
on.
- A. ruta-muraria* L.
Distr. : (1) A, E, F (2) Hokkaido,
Honshu, Shikoku and Kyushu.
(3) The Northern Hemisphere.
- Note : *Machilus*-zone ~ *Abies*-zone,
1,000-3,000m, very rare.
(Limestone Region Element)

Asplenium salerii HOOK.

Distr. : (1) D (2) Honshu, Shikoku and Kyushu. (3) Korea, Ryukyu, Manchuria and China.

Note : *Castanea*-zone, 500m, rare.

A. varians WALL.

Distr. : (1) B, C (2) Honshu, Shikoku and Kyushu. (3) Korea, Formosa, Manchuria, China and Himalayas.

Note : *Castanea*-zone, 1,000m, common.

A. viride Huds.

Distr. : (1) A, B, E, F (2) Hokkaido, Honshu and Shikoku. (3) Formosa, The Temperate zone of the Northern Hemisphere.

Note : *Abies*-zone and *Pinus pumila*-zone, 2,600m, very rare.

Comptosorus sibiricus RUPR.

Distr. : (1) A, E, F (2) Hokkaido, Honshu, Shikoku and Kyushu.

Note : *Machilus*-zone ~ *Abies*-zone, 1,000~2,000m, very rare.

(Limestone Region Element)

BLECHNACEAE

Struthiopteris amabilis (MAKINO) CHING

Distr. : (1) A, B, C, F (2) Honshu, Shikoku and Kyushu.

Note : *Castanea*-zone, 1,000m, common.

S. niponica (KUNZE) NAKAI

Distr. : (1) A, B, C, D, F (2) Hokkaido, Honshu, Shikoku and Kyushu.

Note : *Castanea*-zone and *Fagus*-zone, 1,000m, common.

Woodwardia orientalis SWARTZ

Distr. : (1) D (2) Honshu, Shikoku and Kyushu. (3) China.

Note : *Machilus*-zone and *Castanea*-zone, 200m, rare.

ASPIDIACEAE

Athyrium alpestre (HOPPE) RYLANDS

Distr. : (1) E, F (2) Hokkaido and Honshu. (3) Kamchatka, Siberia, Europe and Northern America.

Note : *Castanea*-zone, 700m, common.

A. deltoidofrons MAKINO

Distr. : (1) F (2) Hokkaido, Honshu, Shikoku and Kyushu. (3) China.

Note : *Castanea*-zone, 700m, rare.

A. crenatum (SOMMERF.) RUPR. var. *glabrum* TAGAWA

Distr. : (1) A, B, C, D, F (2) Hokkaido and Honshu. (3) Korea.

Note : *Abies*-zone, 2,300m, common.

A. melanolepis (FR. et SAV.) H. CHRIST

Distr. : (1) B, E (2) Honshu.

Note : *Pinus pumila*-zone, 2,400m, common.

A. mesosorum (MAKINO) MAKINO

Distr. : (1) D (2) Honshu, Shikoku and Kyushu.

Note : *Machilus*-zone, 300m, rare.

A. niponicum (METT.) HANCE

Distr. : (1) A, B, C, D, F (2) Ho-

kkaido, Shikoku and Kyushu.
(3) Korea, Manchuria, China
and Formosa.

Note : *Castanea*-zone, 700m, common.

Athyrium pinetorum TAGAWA

Distr. : (1) E, F (2) Hokkaido,
Honshu and Shikoku.

Note : *Fagus*-zone, 1,500m, rare.

A. rupestris KODAMA

Distr. : (1) E, F (2) Hokkaido
and Honshu. (3) Kuriles.

Note : *Abies*-zone, 2,000m, rare.

A. spinulosum (MAXIM.) MILDE

Distr. : (1) A, B, C, E (2) Hon-
shu (3) Saghalien, Korea,
Manchuria, China, Siberia
and Hymalayas.

Note : *Abies*-zone, 1,800m, common.

A. squamigerum (METT.) OHWI

Distr. : (1) A, B, C, D, E, F (2)
Honshu, Shikoku and Kyushu.
(3) Formosa, China and In-
dia.

Note : *Fagus*-zone, 1,800m, common.

A. vidalii (FR. et SAV.) NAKAI

Distr. : (1) A, B, C, D, F (2) Ho-
kkaido, Honshu, Shikoku and
Kyushu.

Note : *Castanea*-zone, 800m, common.

A. wardii (HOOK.) MAKINO

Distr. : (1) F (2) Honshu, Shi-
koku and Kyushu. (3) Korea
and China.

Note : *Castanea*-zone, 500m, rare.

Athyrium yokoscense (FR. et SAV.) H.
CHRIST

Distr. : (1) A, B, C, D, E, F (2)
Hokkaido, Honshu, Shikoku
and Kyushu. (3) Saghalien,
Korea, Manchuria, Eastern
Siberia, Amur and China.

Note : *Castanea*-zone and *Fagus*-
zone, 700-2,000m, common.

Cornopteris crenulatoserrulata (MAKINO)

NAKAI

Distr. : (1) B, C, E (2) Hokkaido
and Honshu. (3) Korea, Man-
churia.

Note : *Fagus*-zone, 1,800m, rare.

Cystopteris fragilis (L.) BERNH.

Distr. : (1) A, E, F (2) Hokkai-
do, Honshu and Shikoku. (3)
Saghalien, Kuriles, Korea and
Formosa. The Frigid zone of
the world.

Note : *Pinus pumila*-zone, 2,600m,
rare.

C. sudetica A. BR. et MILDE

Distr. : (1) A, F (2) Honshu (3)
Korea, Siberia, Eastern Asia
and Europe.

Note : *Fagus*-zone, 1,800m, rare.

Dryopteris amurensis CHRIST

Distr. : (1) E (2) Hokkaido and
Honshu. (3) Saghalien and
Amur.

Note : *Abies*-zone, 2,000m, rare.

D. austriaca (JACQ.) WOYNAR

Distr. : (1) B, E, F (2) Honshu,
Shikoku and Kyushu. (3)

- Saghalien, Kuriles, Kamchatka, Siberia, Europe and Northern America.
 Note : *Castanea*-zone, 1,000m, rare.
- Dryopteris coreano-montana* NAKAI
 Distr. : (1) E, F (2) Honshu (3) Saghalien and Korea.
 Note : *Pinus pumila*-zone, 2,500m, rare.
- D. crassirhizoma* NAKAI
 Distr. : (1) A, B, C, E, F (2) Hokkaido, Honshu and Shikoku. (3) Saghalien, Kuriles, Korea and Manchuria.
 Note : *Castanea*-zone and *Fagus*-zone, 700-1,400m, common.
- D. erythrosora* (EAT.) O. KUNTZE
 Distr. : (1) D (2) Honshu, Shikoku and Kyushu. (3) Korea, Ryukyu, Formosa, China and Philippines.
 Note : *Machilus*-zone, 600m, rare.
- D. fragrans* (L.) SCHOTT. var. *remotiuscula* (KOM.) KOM.
 Distr. : (1) E (2) Hokkaido and Honshu (3) Saghalien, Kuriles, Kamchatka, Korea, Manchuria, Siberia, Europe and Northern America.
 Note : *Abies*-zone, 2,300m, very rare.
- D. leata* (KOM.) C. CHR.
 Distr. : (1) A (2) Hokkaido and Honshu. (3) Korea, Manchuria and China.
 Note : *Fagus*-zone, 1,000m, very rare.
- Dryopteris monticora* (MAKINO) C. CHR.
 Distr. : (1) E (2) Hokkaido and Honshu. (3) Korea and Manchuria.
 Note : *Abies*-zone, 2,300m, rare.
- D. polylepis* (FR. et SAV.) C. CHR.
 Distr. : (1) A, B, C, D, E, F (2) Honshu, Shikoku and Kyushu.
 Note : *Fagus*-zone, 1,200m, common.
- D. sabaei* (FR. et SAV.) C. CHR.
 Distr. : (1) A, B, C, E, F (2) Hokkaido, Honshu, Shikoku, and Kyushu. (3) Korea and Manchuria.
 Note : *Fagus*-zone, 1,500m, common.
- D. sacrosancta* KOIZ.
 Distr. : (1) E (2) Honshu, Shikoku and Kyushu. (3) Korea and Manchuria.
 Note : *Machilus*-zone, 300m, rare.
- D. saxifraga* H. ITO
 Distr. : (1) A, B, C, D, E, F (2) Hokkaido, Honshu, Shikoku and Kyushu. (3) Korea and Manchuria.
 Note : *Machilus*-zone, 300m, common.
- D. tokudai* SUGIMOTO
 Distr. : (1) E
 Note : *Castanea*-zone, 800m, rare.
- D. uniformis* (MAKINO) MAKINO
 Distr. : (1) A, B, C, D, E, F (2) Honshu, Shikoku and Kyushu. (3) Korea and China.

Note : *Castanea*-zone, 800m, common.

Gymnocarpium dryopteris (L.) NEWM.
Distr. : (1) A, B, D, E, F (2) Hokkaido and Honshu. (3) Sarghaliens, Korea, Himalayas, Siberia, Europe and Northern America.

Note : *Abies*-zone, 2,000m, rare.

G. jessoense (Koidz.) KOIDZ.

Distr. : (1) A, E, F (2) Hokkaido, Honshu and Shikoku.

Note : *Abies*-zone, 2,300m, rare.

(Limestone Region Element)

G. oyamense (BAK.) CHING

Distr. : (1) A, C, E (2) Honshu and Sikoku. (3) China, Philippines and New Guinea.

Note : *Fagus*-zone, 1,400m, rare.

Lastrea japonica (BAK.) COPEL.

Distr. : (1) B (2) Hokkaido, Honshu, Shikoku and Kyushu. (3) Korea and China.

Note : *Fagus*-zone, 1,600m, rare.

L. laxa (FR. et SAV.) COPEL.

Distr. : (1) D (3) Formosa, Korea and China.

Note : *Machilus*-zone and *Castanea*-zone, 200-700m, very rare.

L. thelypteris (L.) BORY

Distr. : (1) A, B, C, D (2) Hokkaido, Honshu, Shikoku and Kyushu. (3) Korea, China, India, Siberia, Europe, Africa, New Zealand and Northern America.

Note : *Castanea*-zone, 800m, very

common.

Lastrea quelpaertensis (CHRIST) COPEL

Distr. : (1) A, B, C, E, F (2) Hokkaido, Honshu and Shikoku. (3) Korea, Kuriles and Kamchatka.

Note : *Fagus*-zone, and *Abies*-zone, 2,000m, very common.

Matteuccia struthiopteris (L.) Todaro

Distr. : (1) A, B, C, D, F (2) Hokkaido, Honshu, Shikoku and Kyushu. (3) Asia, Europe and Northern America.

Note : *Fagus*-zone, 1,500m, common.

M. cruentalis (HOOK.) TREV.

Distr. : (1) A, B, C, D, F (2) Hokkaido, Honshu, Shikoku and Kyushu. (3) Kuriles, Korea, China and Himalayas.

Note : *Fagus*-zone, 1,800m, common.

Phegopteris decursive-pinnata (VAN HALL) FÉE

Distr. : (1) D, F (2) Honshu, Shikoku and Kyushu. (3) Korea, Ryukyus, Formosa, China, Indochina and India.

Note : *Castanea*-zone, 400m, common.

P. polypodioides FÉE

Distr. : (1) A, B, E, F (2) Hokkaido, Honshu, Shikoku and Kyushu. (3) China, Himalayas, Siberia, Europe and Northern America.

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