

## Haruo UEMATSU\* : A List of the Plants Distributed on the Southern Japanese Alps (13)

植松春雄\* 南アルプス産植物目録(十三)

- Note : *Abies*-zone, 2,000m, common.
- Polystichopsis maximowiczii* (BAK.) TAGAWA  
Distr. (1) A, B, E, F (2) Hokkaido and Honshu (3) Korea.  
Note : *Fagus*-zone, 1,500m, common.
- P. miqueliana* (MAXIM.) TAGAWA  
Distr. : (1) A, B, C, D, E, F (2) Hokkaido, Honshu, Shikoku and Kyushu (3) Korea and China.  
Note : *Fagus*-zone, 1,400m, common.
- P. mutica* (FR. et SAV.) TAGAWA  
Distr. : (1) A, B, C, E, F (2) Hokkaido, Honshu, Shikoku and Kyushu (3) Saghalien, Kuriles and Korea.  
Note : *Fagus*-zone, 1,800m, common.
- P. nipponica* (ROS.) TAGAWA  
Distr. : (1) D (2) Honshu, Shikoku and Kyushu.  
Note : *Machilus*-zone, 200m, rare.
- P. simplicior* (MAKINO) TAGAWA  
Distr. : (1) D (2) Hokkaido and Honshu (3) China.  
Note : *Machilus*-zone, 400m, rare.
- Polystichopsis standishii* (MOORE) TAGAWA  
Distr. : (1) D (2) Hokkaido, Honshu, Shikoku and Kyushu (3) Korea.  
Note : *Machilus*-zone, 300m, rare.
- P. braunii* (SPENN.) FÉE  
Distr. : (1) A, F (2) Hokkaido and Honshu (3) Korea, China, Saghalien, Kuriles, Siberia, Kamchatka, Europe and Northern America.  
Note : *Fagus*-zone and *Abies*-zone, 1,800m, rare.
- P. craspedosorum* (MAXIM.) DIELS  
Distr. : (1) C, D, F (2) Hokkaido, Honshu, Shikoku and Kyushu (3) Korea, China and Siberia.  
Note : *Fagus*-zone, 1,400m rare. (Limestone Region Element)
- P. lachenense* (HOOKL.) BEDD.  
Distr. : (1) E (2) Honshu (3) China, Himalayas, Aleutian and Formosa.  
Note : *Pinus pumila*-zone, 3,000m, very rare.
- P. lonchitis* (L.) ROTH  
Distr. : (1) F (Mt. Kitadake) (3) Saghalien, Kuriles, Kamchatka, Himalayas, Europe

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and Northern America.

Note : *Pinus pumila*-zone, 3.000m, very rare.

(Geological History Element)

*Polystichopsis pseudo-makinoi* TAGAWA

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

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

*P. retroso-paleaceum* (KODAMA) TAGAWA  
var. *ovato-paleaceum*

(KODAMA) TAGAWA

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

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

*P. tagawanum* KURATA

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

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

*P. tripteron* (KUNZE) PRESL

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

Note : *Fagus*-zone and *Abies*-zone, 1.800m, common.

*P. tsus-simense* (HOOK.) J. SMITH

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

Note : *Machilus*-zone, 250m, very rare.

var. *mayebarai* (TAGAWA) KURATA

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

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

*Woodsia glabella* R. BROWN

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

and Honshu (3) Saghalien, Kamchatka, Korea, China, Manchuria, Siberia and Northern America.

Note : *Pinus pumila*-zone, 2.500m, rare.

*Woodsia kitadakensis* OHWI

Distr. : (1) E (Mt. Kitadake)

(2) Southern Japanese Alps.

Note : *Pinus pumila*-zone, 3.000m, very rare.

(Geological History Element)

*W. manchuriense* HOOK.

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

Hokkaido, Honshu, Shikoku and Kyushu (3) Korea, Manchuria, China, Amur and Usuri.

Note : *Castanea*-zone, 1.000m, common.

*W. polystichoides* EATON

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

Hokkaido, Honshu, Shikoku and Kyushu (3) Kuriles, Saghalien, Amur, Usuri, Manchuria, China and Formosa.

Note : *Castanea*-zone and *Fagus*-zone, 1.000m, very common.

#### DAVALLIACEAE

*Davallia mariésii* MOORE

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

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

#### PTERIDACEAE

*Adiantum monochlamys* Γ

- Distr. : (1) D, E, F (2) Honshu, Shikoku and Kyushu (3) Korea, China and Formosa.  
 Note : *Machilus*-zone and *Castanea*-zone, 700m, common.
- Adiantum pedatum* L.  
 Distr. : (1) A, B, C, D, E, F (2) Hokkaido, Honshu and Shikoku. (3) Korea, China, Manchuria, Eastern Siberia, Saghalien, Southern Kuriles, Kamchatka and Northern America.  
 Note : *Castanea*-zone, 600m, common.
- Coniogramme intermedia* HIERON.  
 Distr. : (1) A, B, C, D, E, F (2) Hokkaido, Honshu, Shikoku and Kyushu (3) Kuriles, Saghalien, Korea, Manchuria, China and India.  
 Note : *Castanea*-zone and *Fagus*-zone, 700-1.600m, common.
- Cryptogramma stelleri* (GMEL.) PLANTL  
 Distr. : (1) E, F (2) Honshu (3) Siberia, China, Himalayas and Northern America.  
 Note : *Pinus pumila*-zone, 2, 700m, rare.
- Dennstaedtia hirsuta* (Sw.) METT.  
 Distr. : (1) C, D, F (2) Hokkaido, Honshu, Shikoku and Kyushu, (3) Korea, Manchuria and China.  
 Note : *Castanea*-zone, 600m, common.
- D. wilfordii* (MOORE) KOIDZ.
- Distr. : (1) A, B, C, D, E (2) Hokkaido, Honshu, Shikoku and Kyushu (3) Korea, Manchuria, Usuri, China and Amur.  
 Note : *Castanea*-zone, 600m, common.
- Hypolepis punctata* (THUNB.) METT.  
 Distr. : (1) F (2) Honshu, Shikoku and Kyushu (3) Korea, Ryukyus, Formosa and China. The Tropical zone of the world.  
 Note : *Castanea*-zone, 600m, rare.
- Onychium japonicum* (THUNB.) KUNTZE  
 Distr. : (1) D (2) Hokkaido, Honshu, Shikoku and Kyushu (3) Korea, China, Formosa, Malaysia and India.  
 Note : *Machilus*-zone, 300m, common.
- Pleurosoriopsis makinoi* (MAXIM.) FOMIN  
 Distr. : (1) F (2) Hokkaido, Shikoku and Kyushu (3) Korea, China, Manchuria and Siberia.  
 Note : *Castanea*-zone, 700m, rare.
- Pteridium aquilinum* (L.) KUHN var. *latiusculum* (DESV.) UND.  
 Distr. : (1) A, B, C, D, F (2) Hokkaido, Honshu, Shikoku and Kyushu (3) Ryukyus, China, Korea, Saghalien, Kuriles, Kamchatka, Siberia, Europe and Northern America.  
 Note : *Castanea*-zone, 500m, very common.
- Pteris cretica* L.

- Distr. : (1) C, D, F (2) Honshu, Shikoku and Kyushu (3) Ryukyus, Formosa and China. The Tropical and Subtropical zone of the world.  
 Note : *Machilus*-zone and *Castanea*-zone, 400-700m, common.
- Pteris dispar* KUNTZE  
 Distr. : (1) D (2) Honshu, Shikoku and Kyushu (3) Ryukyus, Formosa and China.  
 Note : *Machilus*-zone, 400m, rare.
- P. inaequalis* BAKER var. *simplicior*  
 TAGAWA  
 Distr. : (1) D (2) Honshu, Shikoku and Kyushu (3) China.  
 Note : *Machilus*-zone, 300m, rare.
- P. multifida* POIR.  
 Distr. : (1) A, B, C, D, F (2) Honshu, Shikoku and Kyushu (3) Korea, China, Ryukyus, Formosa and India.  
 Note : *Castanea*-zone, 500m, common.
- Ptilopteris maximowiczii* (BAK.) HANCE  
 Distr. : (1) F (2) Honshu, Shikoku and Kyushu (3) Formosa and China.  
 Note : *Machilus*-zone and *Castanea*-zone, 500-700m, very rare.
- Sphenomeris chusana* (L.) COPEL.  
 Distr. : (1) D (2) Honshu, Shikoku and Kyushu (3) Ryukyus, Formosa, China and Polynesia.  
 Note : *Castanea*-zone, 400m, common.

## HYMENOPHYLLACEAE

- Crepidomanes makinoui* (C. CHR.) COPEL  
 var. *tosae* (CHRIST) K. IWATS.  
 Distr. : (1) D, F (3) Ryukyus.  
 Note : *Machilus*-zone and *Castanea*-zone, 500-700m, rare.
- Gonocormus minutus* (BL.) v. d. B.  
 Distr. : (1) D, F (2) Hokkaido, Honshu, Shikoku and Kyushu (3) Korea, Manchuria, Ryukyus, Formosa, China and Malaysia.  
 Note : *Machilus*-zone and *Castanea*-zone, 500-700m, rare.
- Hymenophyllum barbatum* (v. d. B.)  
 BACKER  
 Distr. : (1) B, D, F (2) Honshu, Shikoku and Kyushu (3) Korea, China and India.  
 Note : *Castanea*-zone, 1,300m, rare.
- Mecodium polyanthos* (SW.) COPEL.  
 Distr. : (1) F (2) Honshu, Shikoku and Kyushu (3) Ryukyus and Formosa. The Tropical and Subtropical zone of the world.  
 Note : *Castanea*-zone, 1,000m, common.
- Vandenboschia radicans* (SW.) COPEL.  
 Distr. : (1) D, F (2) Honshu, Shikoku and Kyushu (3) Ryukyus and Formosa, The Tropical zone of the world.  
 Note : *Machilus*-zone and *Castanea*-zone, 400-700m, rare.
- V. tibbuensis* H. ITO

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

Note : *Machilus*-zone and *Castanea*-zone, 1.400m, very rare.

#### GLEICHENIACEAE

*Dicranopteris dichotoma* (THUNB.) BE-RNH.

Distr. : ( 1 ) C, D, F ( 2 ) Honshu, Shikoku and Kyushu ( 3 ) Korea, Ryukyus, Formosa, China and Australia. The Tropical and Subtropical zone of the world. (Climatic Element)

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

*Gleichenia japonica* SPR.

Distr. : ( 1 ) C, D, F ( 2 ) Honshu, Shikoku and Kyushu ( 3 ) Korea, Ryukyus, China, Asia, Australia, Polynesia and India.

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

#### SCHIZAEACEAE

*Lycopodium japonicum* (THUNB.) SW.

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

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

#### OSMUNDACEAE

*Osmunda japonica* THUNB.

Distr. : ( 1 ) A, B, C, D, E, G ( 2 ) Hokkaido, Honshu, Shikoku and Kyushu ( 3 ) Saghalien, Korea, Ryukyus, Formosa, China and Himalayas.

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

*Osmunda lancea* THUNB.

Distr. : ( 1 ) E ( 2 ) Hokkaido, Honshu, Shikoku and Kyushu ( 3 ) Kuriles, Saghalien, Amur, Usuri, Manchuria, Korea, China and Formosa.

Note : *Castanea*-zone, 600m, very rare.

*Osmundastrum cinnamomeum* (L.) PR. var. *fokiense* (COPEL.) TAGAWA

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

Note : *Fagus*-zone and *Abies*-zone, 1.000-2.200m, common.

*O. claytonianum* (L.) TAGAWA

Distr. : ( 1 ) B ( 2 ) Honshu ( 3 ) Korea, Manchuria, Usuri and Northern America.

Note : *Fagus*-zone, 1.800m, rare.

#### OPHIOGLOSSACEAE

*Ophioglossum vulgatum* L.

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

Note : *Castanea*-zone, 900m, very rare.

#### BOTRYCHIACEAE

*Botrychium lunaria* (L.) SWARTZ

Distr. : ( 1 ) A, B, E ( 2 ) Hokkaido and Honshu ( 3 ) Korea, Kuriles, Saghalien, Kamchatka, Siberia, Himalayas,

Europe and Southern and  
Northern America.

Note : Aug., *Pinus pumila*-zone,  
2,500m, common.

*Botrychium lanceolatum* (GMEL.) ANGST.

Distr. : (1) E (2) Hokkaido,  
and Honshu (3) Korea, Ku-  
riles, Saghalien, Kamchatka,  
Siberia, Himalayas, Europe,  
and Southern and Northern  
America.

Note : *Pinus pumila*-zone, 3,000m,  
very rare.

*Japanobotrychium virginianum* (L.)

NISHIDA

Distr. : (1) B (3) Korea, Man-  
churia, China, Himalayas, Si-  
beria, Europe and Southern  
and Northern America.

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

*Sceptridium multifidum* (GMEL.) NI-

SHIDA

var. *robustum* (RUPR.) NISHIDA

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

Note : *Abies*-zone, very rare.

var. *multifidum* NISHIDA

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

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

*Sceptridium ternatum* (THUNB.) LYON

Distr. : (1) B, C (2) Honshu,  
Shikoku and Kyushu (3) Ryu-  
kyus, Formosa, China and

Himalayas.

Note : *Fagus*-zone, 1,700m, rare.

#### EQUISETACEAE

*Equisetum arvense* L.

Distr. : (1) A, B, C, D, E (2)  
Hokkaido, Honshu, Shikoku  
and Kyushu (3) The Tem-  
perate and Frigid zone of  
the Northern Hemisphere.

Note : *Castanea*-zone, 900m, very  
common.

*E. hyemale* L.

Distr. (1) E, F (2) Hokkaido  
and Honshu (3) Kuriles,  
Saghalien, Korea, Himalayas,  
Siberia, Europe and Northern  
America.

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

*E. palustre* L.

Distr. : (1) E (2) Hokkaido  
and Honshu (3) Kuriles,  
Saghalien, Korea, China, Si-  
beria, Europe and Northern  
America.

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

*E. ramosissimum* DESF.

var. *japonicum* MILDE

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

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

#### SELAGINELLACEAE

*Selaginella helvetica* (L.) LINK.

Distr. : (1) A, E (2) Hokkaido  
and Honshu (3) Kuriles,  
Korea, China, Siberia, Asia  
Minor and Europe.

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