

**Haruo UEMATSU* : A list of the plants distributed on
the Southern Japanese Alps (2)**

植松春雄* 南アルプス産植物目録 (二)

This list reads as follows :

Distr. (1) indicates that the region concerned is one of the nine floristic regions (A-I) of the Southern Japanese Alps, which the author established in another paper.

Under (2) is shown the distribution type on the Japan Islands. The author used the ten distribution types which Drs. Hara and Kanai established in their paper. The additional two types, IV-D and IV-E, are set up by the author. The IV-D type consists of the plants distributed only on the Northern and the Southern Japanese Alps. The IV-E type consists of what the author calls the 'Tokai Element,' which is chiefly observed in the Tokai districts.

Under (3) is shown the distribution area in the world. The author used the areas specified by Dr. Ohwi in the 'Flora of Japan'.

Under 'Note,' are shown the flowering season, the vertical distribution zone, the altitude of principal distribution and the frequency.

For readers' information, the figures of the distribution types by Drs. Hara and Kanai and of the additional two types—IV-D and IV-E—are shown below.

SPERMATOPHYTA

ANGIOSPERMAE-DICOTYLEDONEAE

GAMOPETALAE

COMPOSITAE

Achillea sibirica LEDEB. form. *discoidea*

REGEL

Distr. : (1) A, B, E, G, H

(2) V

(3) Korea, Manchuria, Amur,
Usuri and Northern America

Note : June-Aug. Castanea-zone,
1,100-1,500m, common

Adenocaulon himalaicum EDGEW.

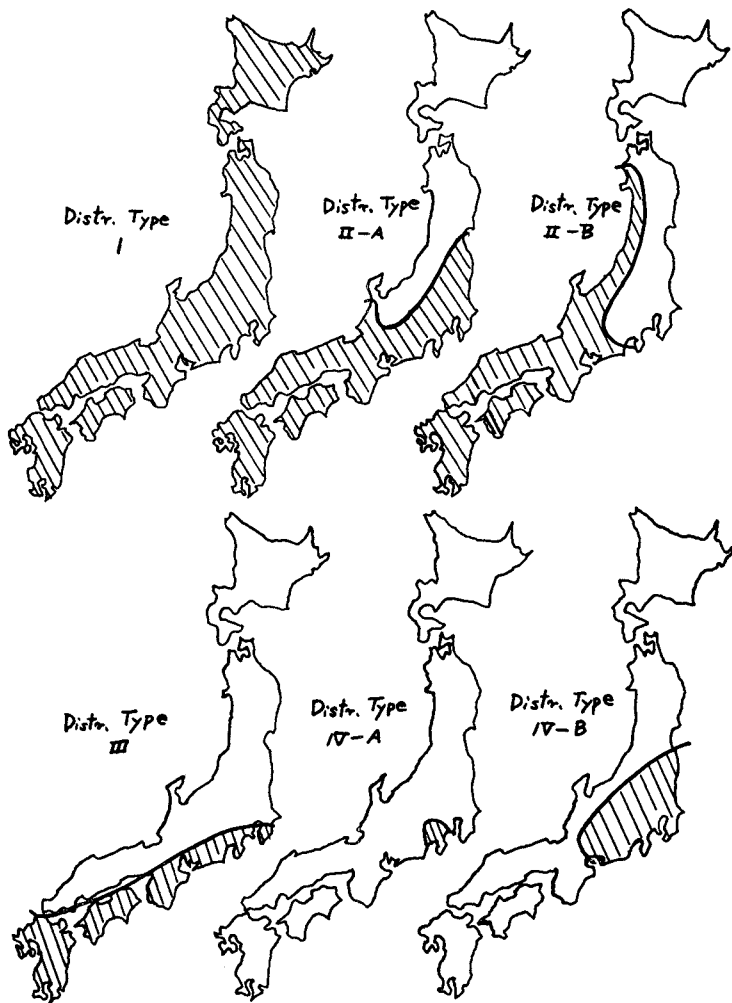
Distr. : (1) A, B, D, G, H

(2) I

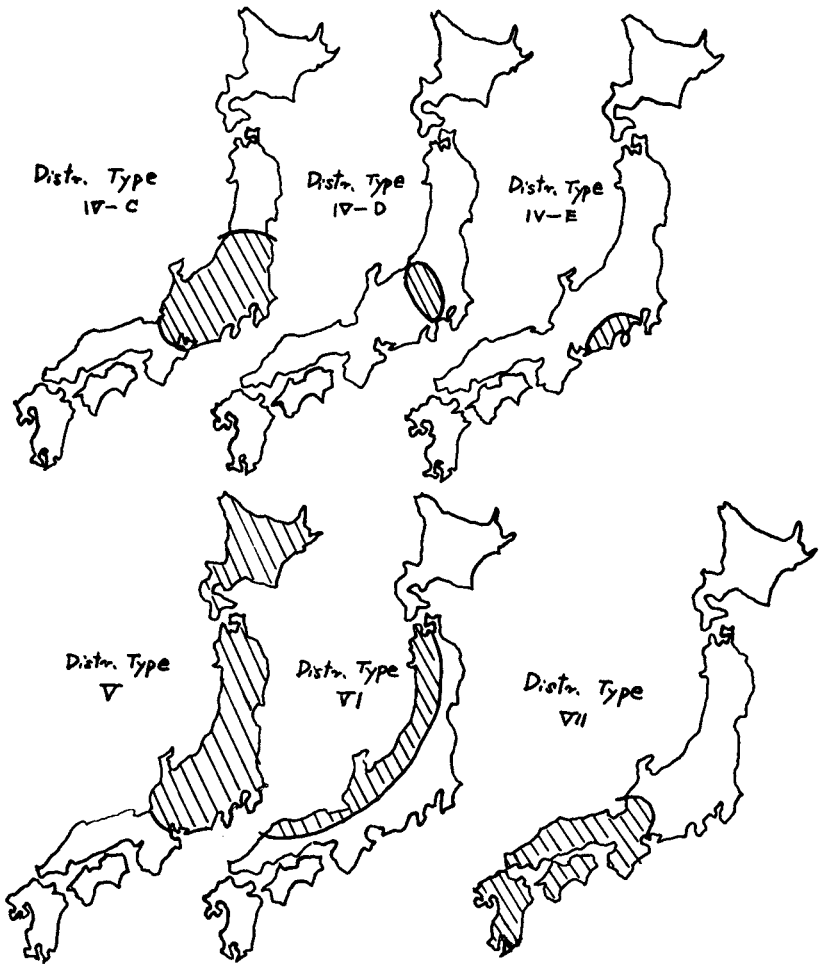
(3) Southern Kurile, Korea,
China, Manchuria and
Himalayas

Note : June-Aug. Castanea-zone,
800-1,200m very common

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Distr. types I—VII were set up by Drs. HARA and KANAI, while the two of IV-D and IV-E were set up by the author for the flora of the Southern Japanese Alps.



Ainsliaea acerifolia SCHULTZ-BIP. var. *subapoda* NAKAI

Distr. : (1) A, B, E, G, H
 (2) I
 (3) Korea, Manchuria and China

Note : July-Aug. Fagus-zone, 1,200-2,000m very common

A. apiculata SCHULTZ-BIP.

Distr. : (1) D
 (2) I
 (3) Korea

Note : July-Aug. Castanea-zone, 700m, rare

Anaphalis alpicola MAKINO

Distr. : (1) E, F, G

- (2) V, Geological history element
 Note : July-Aug. *Pinus pumila*-zone, 3,000m, rare
- A. margaritacea* BENTHAM et HOOKER
 f. var. *angustior* NAKAI
 Distr. : (1) A, B, E, G, H
 (2) I
 (3) China
 Note : July-Aug. *Fagus*-zone, 1,500-2,000m, common
- var. *yedoensis* OHWI
 Distr. : (1) A, B, D
 (2) I
 Note : July-Aug. *Fagus*-zone, 1,500m, rare
- A. simica* HANCE
 Distr. : (1) A, B, D, F, H
 (2) VII, Lime stone region element
 (3) Korea and China
 Note : Aug.-Sept. *Castanea*-zone, *Fagus*-zone, 900-1,300m rare
- Arnica unalascensis* LESSING var. *Tschonoskyi* KITAM. et HARA
 Distr. : (1) B, E, F, G, H
 (2) V
 (3) Kurile, Kamchatka and Aleutian
 Note : Aug. *Pinus pumila*-zone, 2,600-3,000m common
- Artemisia capillaris* THUNB.
 Distr. : (1) A, B
 (2) I
 (3) Korea, Manchuria, China, Formosa and Philippine
 Note : Sept.-Oct. *Castanea*-zone, 1,000m common

- A. glomerata* LEDEB.
 Distr. : (1) E, F
 (2) V, Geological history element
 (3) Saghalien, Kamchatka, Siberia and Alaska
 Note : July-Aug. *Pinus pumila*-zone, 3,000m rare
- A. japonica* THUNB.
 Distr. : (1) A, B, C, H, I
 (2) I
 (3) Ryukyus, Formosa, Manchuria, China, Philippine and Afghanistan
 Note : July-Aug. *Castanea*-zone, 1,000m very common
- A. Keiskeana* MIQ.
 Distr. : (1) A, B, C, D, I
 (2) I
 (3) Korea and Northern China
 Note : Aug.-Sept. *Castanea*-zone, 1,000m-1,300m very common
- Artemisia kitadakensis* HARA et KITAM.
 Distr. : (1) E, F, G
 (2) Endemic
 Note : Aug. *Pinus pumila*-zone, 3,000m very rare
- A. montana* PAMPAN
 Distr. : (1) D, F, G, H
 (2) V
 (3) Saghalien and Kurile
 Note : Aug. *Fagus*-zone, *Abies*-zone, 1,300-1,800m common
- A. pedunculosa* MIQ.
 Distr. : (1) A, B, E, G, H
 (2) IV-D
 Note : July-Aug. *Pinus pumila*-zone,

- 2,500m rare
- A. princeps* PAMPAN.
Distr. : (1) A, B, H
(2) I
(3) The Bonins and Korea
Note : Aug.-Sept. Castanea-zone,
700m, common
- A. sinanensis* YABE
Distr. : (1) B, E, F, G
(2) IV-D
Note : Aug. Pinus pumila-zone,
2,800-3,000m common
- Aster ageratoides* TURCZ. var. *ovatus*
NAKAI
Distr. : (1) A, D, G, H
(2) I
Note : Aug.-Sept. Castanea-zone,
800-1,000m, common
- var. *Harae* KITAM.
Distr. : (1) D
(2) IV-E
Note : Aug. Castanea-zone, 1,300m,
rare
- var. *Sugimotoi* KITAM.
Distr. : (1) H
(2) IV-E
Note : Sept. Machilus-zone, 500m,
very rare
- A. dimorphophyllus* FR. et SAV.
Distr. : (1) D
(2) IV-E
Note : Aug. Fagus-zone, 1,300m,
very rare
- A. fastigiatus* FISCH.
Distr. : (1) B
(2) I
(3) Korea, Manchuria and
China
- Note : Sept.-Oct. Castanea-zone,
900m, rare
- A. Glehnii* FR. SCHMIDT var. *hondoensis*
KITAM.
Distr. : (1) A, B, D, E, F, H
(2) I
Note : Aug. Fagus-zone, 1,500-
1,900m, common
- A. leiophyllus* FR. et SAV.
Distr. : (1) B, D, E, F, H
(2) I
(3) Formosa
Note : Aug. Fagus-zone, 1,800m,
common
- Aster Scaber* THUNB.
Distr. : (1) A, B, D, H
(2) I
(3) Korea, Manchuria and
China
Note : Aug.-Sept. Castanea-zone,
1,000m, common
- A. viscidulus* MAKINO
Distr. : (1) D, G, H
(2) IV-E
Note : Aug. Abies-zone, 1,800m, rare
- var. *alpinus* KOIDZ.
Distr. : (1) G, H
(2) Endemic
Note : Aug. Pinus pumila-zone, rare
- Atractylodes japonica* KOIDZ.
Distr. : (1) H
(2) I
(3) Korea and Manchuria
Note : Sept.-Oct. Castanea-zone,
800m, common
- Bidens biternata* MERR. et SHERFF
Distr. : (1) D, H
(2) VII

- (3) Korea, Manchuria, China, Formosa, India, Malay, Australia and Africa
 Note : Sept.-Oct. Castanea-zone, 700m, common
- Bidens parviflora* WILLD.
 Distr. : (1) H
 (2) VII
 (3) Korea, Australia, China and East Siberia
 Note : Sept.-Oct. Machilus-zone, Castanea-zone, 500-800m, rare
- Cacalia adenostyloides* MATSUM.
 Distr. : (1) B, E, F, G, H, I
 (2) V
 Note : Aug.-Sept. Fagus-zone, Abies-zone, 1,500-2,300m, common
- C. delphinifolia* SIEB. et ZUCC.
 Distr. : (1) A, B, E, D, H
 (2) I
 Note : July-Aug. Castanea-zone, Fagus-zone, 1,300-1,600m, very common
- C. farfaraefolia* SIEB. et ZUCC.
 Distr. : (1) B, E, F, G, H, I
 (2) VII
 Note : Aug.-Sept. Fagus-zone, common
- var. *acerina* KITAM.
 Distr. : (1) D, F
 (2) VII
 Note : Aug.-Sept. Fagus-zone, rare
- C. hastata* L. var. *farfaraefolia* OHWI
 Distr. : (1) B, E, F
 (2) VII
 Note : Aug.-Sept. Fagus-zone, 1,500m, very common
- var. *alata* KITAM.
- Distr. : (1) B, C, E, F, G, H
 (2) IV-A, Geological history element
 Note : Aug.-Sept. Fagus-zone, 1,500m, rare
- Cacalia tebakaensis* MAKINO
 Distr. : (1) D
 (2) III, Geological history element
 Note : July-Aug. Fagus-zone, 1,500m, rare
- C. Yatabei* MATSUM. et KOIDZ.
 Distr. : (1) B, E, F
 (2) I
 Note : Aug.-Sept. Fagus-zone, 1,400-1,500m common
- Cardus crispus* L.
 Distr. : (1) A, B, C, H, I
 (2) I
 (3) Korea, Manchuria, Siberia, and Europe
 Note : July, Castanea-zone, 600 m, common
- Carpesium abrotanoides* L.
 Distr. : (1) B, C, H
 (2) I
 (3) Korea and China
 Note : Sept.-Nov. Castanea-zone, 1,000m, common
- C. cernuum* L.
 Distr. : (1) D, H
 (2) I
 (3) Europe, China, Ryukyu, Formosa and Korea
 Note : Aug.-Sept. Castanea-zone, 900m, rare

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