

PLANTS COLLECTED BY Mrs. J. VISSER—HOOFT DURING
THE THIRD EXPEDITION TO THE KARA-KORUM
MOUNTAINS IN THE YEAR 1929

by

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CUPRESSACEAE.

Juniperus macropoda Boiss. Fl. Orient. V (1884) p. 709; Hooker Fl. Br. Ind. V (1890) p. 647.

Umlung (Thalam-buti valley) 4200 m, 28 July no. 58. Big shrubs.

Distribution: Affghanistan, Beluchistan, Persia, Arabia.

GRAMINEAE.

Poa alpina L. Sp. pl. (1735) p. 67; Hooker Fl. Br. Ind. VII (1897) p. 338.

Leh 3780 m, on irrigated grassland, 1 June no 4.

Distribution: N. temp. and Arctic regions.

Poa attenuata Trinius in Bunge Verz. Suppl. Fl. Alt. 9 (1836); Hooker Fl. Br. Ind. VII (1897) p. 340.

Nubra valley 3800 m, 15 June no. 34.

Distribution: Persia, Turkestan, N. Asia.

Elymus sibiricus L. Sp. pl. (1753) p. 83; Hooker Fl. Br. Ind. VII (1897) p. 373.

Nubra valley 3800 m, 15 June no. 33.

Distribution: Affghanistan, Abyssinia, N. Asia and America.

LILIACEAE.

Allium blandum Wall. Plant. As. Rar. III (1832) p. 38 t. 260; Hooker Fl. Br. Ind. VI (1894) p. 339.

Saser Brangsa 4635 m, 29 July no. 64. Flowers purple.

Distribution: Western Himalaya, Western Tibet from Kumaon to W. Nepal.

IRIDACEAE.

Iris spuria L. Sp. Pl. (1753) p. 39. Hooker Fl. Br. Ind. VI (1894) p. 272.

Leh 3780 m, 1 June no. 1. Along ways and agriculture fields. Flowers purple or white. Frequent.

Distribution: Kashmir, westward to Russia.

ORCHIDACEAE.

Orchis latifolia L. Sp. Pl. (1753) p. 941; Hooker Fl. Br. Ind. VI (1894) p. 127.

Kimi (Nubra valley) 3380 m, July no. 50. Flowers purple. In moist grassland.

Distribution: Westward from Affghanistan to N. Africa and the Atlantic, N. Asia.

POLYGONACEAE.

Polygonum paleaceum Wall. Cat. no. 1684 (1828); Hooker Fl. Br. Ind. V (1890) p. 32.

Saser Brangsa 4635 m, July no. 46. Flowers white-pink.

Distribution: Khasia Mts.

CARYOPHYLLACEAE.

Silene Moorcroftiana Wall. Cat. no. 626 (1828); Edgeworth and Hooker f. in Hooker Fl. Br. Ind. I (1875) p. 219.

Nubra valley 3500 m, 15 June no. 15. Flowers white.

Distribution: Affghanistan.

Lychnis himalayensis Edgew. Edgeworth and Hooker f. in Hooker Fl. Br. Ind. I (1875) p. 223.

Nubra valley 3400 m, 17 June no. 35; Panamik (Nubra valley) 3230 m, 9 June no. 10. Flowers white. Grassland.

Distribution: Sikkim Himalaya, Western Tibet, Sassar.

Stellaria graminea L. Sp. Pl. (1753) p. 422; Edgeworth and Hooker in Hooker Fl. Br. Ind. I (1875) p. 233.

Leh 3780 m, 1 June no. 8. Flowers white. Grassland.

Distribution: Affghanistan to W. Europe.

Arenaria muscifomis Wall. Cat. no. 6401 (1828); Edgeworth and Hooker in Hooker Fl. Br. Ind. I (1875) p. 237.

Kushku Maidan 5000 m, August no. 83 bis.

Distribution: Alpine Eastern and Western Tibet, Balch pass, Karakoram and Parang passes, Tibetan Sikkim.

RANUNCULACEAE.

Anemone rupicola Camb. in Jacq. Voy. Bot. (1841—44) 5 t. 2,

var. *sericea* Hook. f. and Thomson in Hooker Fl. Br. Ind. I (1875) p. 8.

Saser Brangsa 4200 m, August no. 23. Flowers white.

Distribution: Himalaya, from Gores and Kashmir to Sikkim.

Aquilegia vulgaris L. Sp. Pl. (1753) p. 533; Hooker f. and Thomson in Hooker Fl. Br. Ind. I (1875) p. 24.

Aranu (Nubra valley) 3300 m, 5 July no. 47. Flowers white; Nubra valley 3500 m, 5 July no. 49. Flowers white or purple.

Distribution: Temp. Europe and Asia.

PAPAVERACEAE.

Papaver nudicaule L. Sp. Pl. (1753) p. 507; Hooker f. and Thomson in Hooker Fl. Br. Ind. I (1875) p. 117.

Skyangpo-che 4600 m, July no. 94. Flowers white, yellow or orange. Frequent along rivulets.

Distribution: Affghanistan, Mts. of Central and Northern Europe, N. Asia, Arctic regions.

CRUCIFERAE.

Matthiola odoratissima Br. in Hort. Kew ed. 2 IV (1811) p. 120; Hooker f. and T. Anderson in Hooker Fl. Br. Ind. I (1875) p. 131.

Nubra valley 3200 m, 2 June no. 56. Flowers purple.

Distribution: W. Tibet, Westward to Asia minor and the Caucasus.

Parrya exscapa Mey. in Led. Fl. Alt. III (1831) p. 38; Hook. f. and T. Anderson in Hooker Fl. Br. Ind. I (1875) p. 131.

Shyok valley 4600 m, 12 August no. 28.

Distribution: Altai Mts.

Arabis tibetica H. f. and T. in Journ. Linn. Soc. V (1861) p. 143; Hooker f. and T. Anderson in Hooker Fl. Br. Ind. I (1875) p. 137.

Nubra valley 4000 m, 15 June no. 60.

Distribution: Kashmir and Western Tibet.

Alyssum canescens DC. Prodr. I (1824) p. 164; Hooker f. and T. Anderson in Hooker Fl. Br. Ind. I (1875) p. 141.

Upper Shyok valley 4600 m, 7 August no. 38.

Distribution: S. Siberia.

Draba glacialis Adams in Mem. Soc. Nat. Mosc. V (1861) p. 106; Hooker f. and T. Anderson in Hooker Fl. Br. Ind. I (1875) p. 142.

Kushku Maidan 5300 m, August no. 88.

Distribution: Arctic Asia and America, Soongaria, Rocky Mts.

Christolea crassifolia Cambess. Jacq. Voy. Bot. (1841—44) 17 t. 17;

Hook. f. and T. Anderson in Hooker Fl. Br. Ind. I (1875) p. 154.
Upper Shyok valley 4600 m, 5 August no. 57. Kushku Maidan
5000 m, August no. 84.

Distribution: Western Tibet.

Braya tibetica H. f. and T. in Journ. Linn. Soc. V (1861) p. 168;

Hooker f. and T. Anderson in Hooker Fl. Br. Ind. I (1875) p. 155.
Kushku Maidan 5300 m, August no. 88 bis.

Distribution: Western Tibet.

Dilophia salsa Thoms. in Hook. Kew. Journ. Bot. V (1853) p. 20
and IV t. 12; Hook. f. and T. Anderson in Hooker Fl. Br. Ind. I
(1875) p. 160.

Khushku Maidan 5200 m, August no. 90. Kushku Maidan 5500
m, August no. 91.

Distribution: Tian Schan Mts.

CRASSULACEAE.

Sedum himalense Don Prodr. (1825) p. 212; C. B. Clarke in
Hooker Fl. Br. Ind. II (1879) p. 418.

Saser Brangsa 4635 m, July no. 63. Frequent.

Distribution: Sikkim and Nipal.

SAXIFRAGACEAE.

Saxifraga imbricata Royle III (1839) 226, t. 49; C. B. Clarke in
Hooker Fl. Br. Ind. II (1879) p. 394.

Kushku Maidan 5000 m, August no. 27.

Distribution: Alpine Himalaya, from Sikkim to Kash-
mir.

Parnassia ovata Ledeb. in Mem. Acad. Petersb. V (1812) p. 528;
C. B. Clarke, in Hooker Fl. Br. Ind. II (1879) p. 403.

Saser Brangsa 4635 m, 5 Aug. no. 48. Between grass.

Distribution: Altai Mts.

ROSACEAE.

Potentilla fruticosa L. Sp. pl. (1753) p. 495; Hooker Fl. Br. Ind. II
(1879) p. 347.

Umlung (Thalam-buti valley) 4200 m, July no. 61. Flowers
yellow. Root very long.

Distribution: N. Asia and Europe to the Pyrenees and
England.

Potentilla Salesoviana Steph. in Mem. Soc. Nat. Mosc. II (1809)
p. 6 t. 3; Hooker Fl. Br. Ind. II (1879) p. 347.

Nubra valley 3500 m, 23 June no. 16. Flowers white. Fre-
quent near Nubra valley.

- Distribution: Altai and Thian Schan Mts.
Potentilla anserina L. Sp. Pl. (1753) p. 495; Hook. Fl. Br. Ind. II (1879) p. 350.
 Leh 3780 m, 1 June no. 6. In grassland. Frequent.
 Distribution: Kashgar, N. Asia and from Persia westward to the Atlantic, N. America, Australia.
- Potentilla multifida** L. Sp. Pl. (1753) p. 496; Hook. Fl. Br. Ind. II (1879) p. 353.
 Saser Brangsa 4635 m, July no. 45.
 Distribution: Affghanistan to the Caucasus. Northern and Central Europe and Asia from Lapland and the Pyrenees; China; temperate and Arctic N. America.
- Potentilla sericea** L. Sp. Pl. (1753) p. 495; Hook. Fl. Br. Ind. II (1879) p. 354.
 Skyangpo-che 4600 m, July no. 20. Frequent. Between grass.
 Distribution: Affghanistan to the Caucasus and Armenia. Soongaria, N. China, Temperate Asia and N. America.

PAPILIONACEAE.

- Thermopsis inflata** Camb. in Jaquem. Voy. Bot. IV (1841—44) p. 34 t. 39; J. G. Baker in Hooker Fl. Br. Ind. II (1879) p. 63.
 Saser Brangsa 4635 m, 28 July no. 72.
 Distribution: Himalayas of Tibet and Kunawar.
- Medicago sativa** L. Sp. Pl. (1753) p. 778; J. G. Baker in Hooker Fl. Br. Ind. II (1879) p. 90.
 Skyangpo-che 4600 m, July no. 21.
 Distribution: Cultivated for forage in Madras, Bengal and the North-West Provinces.
- Astragalus strictus** Grah. in Wall. Cat. (1828) 5924; J. G. Baker in Hooker Fl. Br. Ind. II (1879) p. 90.
 Skyangpo-che 4600 m, 31 July no. 36; Shyok valley 4600 m, 3 August no. 66; Nubra valley 3400 m, 11 June no. 12.
 Flowers purple. Growing between grass.
 Distribution: Through the Himalayas in the alpine region from Nubra and Ladak to Sikkim and Silhet.
- Astragalus nivalis** Kar. and Kir Enum. Pl. Song. (1842) no. 272; J. G. Baker in Hooker Fl. Br. Ind. II (1879) p. 136.
 Skyangpo-che 4600 m, July no. 93.
 Distribution: Central Siberia.
- Oxytropis mollis** Royle Ill. (1839) 198; J. G. Baker in Hooker Fl. Br. Ind. II (1879) p. 137.
 Shyok valley 4600 m, 7 Aug. no. 22; Saser Brangsa 4000 m, 25 July no. 69. Flowers purple. Between grass.

Distribution: West Himalayas; Lahul, Zanskar, Kunawar etc.

Oxytropis microphylla DC. Prodr. II (1825) p. 279; J. G. Baker in Hooker Fl. Br. Ind. II (1879) p. 139.

Nubra valley 3600 m, 15 June no. 14; Upper Shyok valley 4600 m, 5 Aug. without no.; Saser Brangsa 4635 m, 7 Aug. no. 30. Flowers pink-purple.

Distribution: West Himalayas, alpine region.

Cicer soongaricum Steph. J. G. Baker in Hooker Fl. Br. Ind. II (1879) p. 176.

Nubra valley 3200—3700 m, 15 June no. 80. Sandy soil. Frequent also in Hunza.

Distribution: Orient, Affghanistan, Soongaria.

Sophora Moorcroftiana Benth. J. G. Baker in Hooker Fl. Br. Ind. II (1879) p. 249.

Nubra valley 3000—3700 m, 25 June no. 17. Flowers yellow.

Distribution: Kashgar, Bellew.

GERANIACEAE.

Biebersteinia odora Steph. ex Fisch. Hort. Gorenk. ed. I (1808) 325. *B. Emodi* Jaubert and Spach Ill. Pl. Or. II (1844—46) p. 109; Edgew. and Hooker f. in Hooker Fl. Br. Ind. I (1875) p. 427.

Saser Brangsa 4600 m, 28 July no. 69, 70. Flowers yellow.

Distribution: Alpine Western Tibet and Kunawar.

Geranium collinum Steph. ex Willd. Spec. pl. III (1800) 705; *G. collinum* Bieb. in Hooker Fl. Br. Ind. I (1875) p. 429.

Leh 3780 m, 1 June no. 2. Flowers dark blue-purple. Along agriculture fields.

Distribution: Affghanistan, Siberia, S. Russia.

OENOTHERACEAE.

Epilobium latifolium L. Sp. Pl. (1753) C. B. Clarke in Hooker Fl. Br. Ind. II (1879) p. 583.

Nubra valley 3700 m, 15 June no. 78. Flowers red-purple.

Distribution: Dahuria, Altai, Arctic Asia, Europe and America.

UMBELLIFERAE.

Heracleum pinnatum C. B. Clarke in Hooker Fl. Br. Ind. II (1879) p. 712.

Saser Brangsa 4000 m, 28 July no. 71. Flowers white. Growing between the grass.

Distribution: Kashmir northwards to the Karakorum.

PRIMULACEAE.

Primula denticulata Smith Exot. Bot. II (1805) 109 t. 114; Hooker Fl. Br. Ind. III (1882) p. 485.

Below Saser pass, Nubraside, 5000 m, Aug. no. 25. Flowers purple.

Distribution: Affghanistan.

Primula nivalis Pallas, Reise durch verschiedene Provinzen des russischen Reiches III (1776) 723; Pax and Knuth in Engler, Pflanzenreich IV 237 (1905) p. 103.

Below the Saser pass 5500 m, 28 July no. 85.

Distribution: Pontic Mts., Kaukasus, Turkestan, Affghanistan, Himalaya to Yunnan and northw. Altai to Baikal and Dauria.

PLUMBAGINACEAE.

Acantholimon lycopodioides Boiss. in DC. Prodr. XII (1848) p. 632; C. B. Clarke in Hooker Fl. Br. Ind. III (1882) p. 479.

Umlung (Thalam-buti valley) 4200 m, July no. 54.

Distribution: Kashgar.

GENTIANACEAE.

Gentiana tenella Fries in Act. Hafn. X (1770) p. 436; C. B. Clarke in Hooker Fl. Br. Ind. IV (1885) p. 109.

No locality and number.

Distribution: Arctic and alpine Europe and N. and Central Asia.

Gentiana argentea Royle, ex D. Don, in Trans. Linn. Soc. XVII (1837) p. 513; C. B. Clarke in Hooker Fl. Br. Ind. IV (1885) p. 112.

Leh 3780 m, 1 June no. 7. Flowers blue. Grassland.

Distribution: Affghanistan.

BORRAGINACEAE.

Myosotis sylvatica Hoffm. Deutsch. Fl. I (1791) p. 85; C. B. Clarke Fl. Br. Ind. IV (1885) p. 173.

Upper Nubra valley 3710 m, 27 June no. 19. Flowers blue.

Distribution: Europe, N. West Asia to the Canaries.

Macrotomia perennis Boiss. Fl. Orient. IV (1879) p. 212; C. B. Clarke in Hooker Fl. Br. Ind. IV (1885) p. 173.

Nubra valley 3500—3700 m, June no. 32. Flowers: purple, pink, yellow. Leaves prickly.

Distribution: Cabul, Kashgar, Yarkand, Alatau Mts.

LABIATAE.

Nepeta spicata Benth. in Wall. Pl. As. rar. I (1830) p. 64; Hooker Fl. Br. Ind. IV (1885) p. 659.

Skyangpo-che 4600 m, July no. 82. Between grass.

Distribution: Affghanistan.

Nepeta discolor Benth. in Hook. Bot. Misc. III (1830) p. 378; Hooker Fl. Br. Ind. IV (1885) p. 659.

Shyok valley 4600 m, 7 Aug. no. 37.

Distribution: Affghanistan.

Dracocephalum heterophyllum Benth. Labiatarum Gen. et Spec. (1832—36) p. 738; Hooker Fl. Br. Ind. IV (1885) p. 665.

Upper Shyok valley 4600 m, 7 Aug. no. 40.

Distribution: Turkestan.

Marrubium lanatum Benth. Labiatarum Gen. et Spec. (1832—36) p. 587; Hooker Fl. Br. Ind. IV (1885) p. 671.

Upper Shyok valley 4600 m, 7 Aug. no. 39.

Distribution: Turkestan and Altai Mts.

SOLANACEAE.

Physochlaina praealta Hook. f. Bot. Mag. (1851) t. 4600; C. B. Clarke in Hooker Fl. Br. Ind. IV (1885) p. 244.

Leh 3780 m, 1 June no. 3. Flowers yellow. Growing between sand and stones. Frequent in all Karakorum valleys.

Distribution: Kashgar and Yarkand.

SCROPHULARIACEAE.

Lancea tibetica Hook. f. & Thoms. in Hook. Kew Journ. IX (1857) p. 244 t. 7; Hook. Fl. Br. Ind. IV (1885) p. 260.

Leh 3780 m, 1 June no. 5. Flowers blue-purple; between grass. Frequent.

Distribution: Alpine Himalaya and Western Tibet.

Euphrasia officinalis L. Sp. Pl. (1753) p. 604; Hook. Fl. Br. Ind. IV (1885) p. 304.

Nubra valley 3600 m, 4 July no. 51. Between grass.

Distribution: Affghanistan and N. Persia to Europe, N. Central and East Asia to Japan, N. America.

Pedicularis cheilanthifolia Schrenk in Fisch. & Mey. Enum. Pl. Nov. Fasc. II (1842) p. 19; Hooker Fl. Br. Ind. IV (1885) p. 308.

Upper Shyok valley 4600 m, 7 Aug. no. 41; Nubra valley 3500 m, 18 VI 1929 no. 53. Flowers: purple, pink, white.

Distribution: Soongaria.

COMPOSITAE.

- Aster tibeticus** Hook. f. in Hooker Fl. Br. Ind. III (1882) p. 251.
 Saser Brangsa 4600 m, Aug. 1929 no. 43.
 Distribution: Western Himalaya and Tibet.
- Erigeron andryaloides** Benth. in Herb. Kew. Hooker Fl. Br. Ind. III (1882) p. 255.
 Saser Brangsa 4635 m, Aug. 1929 no. 43 bis; Nubra valley 3600 m, 11 June no. 13; Kushku Maidan 5000 m, Aug. no. 26 bis.
 Distribution: Western Himalaya and Western Tibet.
- Erigeron alpinus** L. Sp. Pl. (1753) p. 864; Hooker Fl. Br. Ind. III (1882) p. 255.
 Saser Brangsa 4635 m. Aug. no. 42. Nubra valley 3600 m. 28 June no. 73. Flowers purple.
 Distribution: Mountains of the N. temp. zone.
- Leontopodium alpinum** Cass. in Dict. Sc. Nat. XXV (1882) p. 474; Hooker Fl. Br. Ind. III (1882) p. 279.
 Skyangpo-che 4600 m. July no. 87 and 95.
 Distribution: Alps of Europe and Central Asia.
- Leontopodium alpinum** Cass. var. *frigidum* Beauverd. in Bull. Soc. Bot. Genève Ser 2, II (1910) p. 248 fig. XXI.
 Thirit (Shyok valley) 3050 m. 7 June no. 9. Kushku Maidan 5000 m. Aug. no. 26. Grassland. Very frequent.
 Distribution: Alps of Europe and Central Asia.
- Anaphalis contorta** Hook. f. in Hooker Fl. Br. Ind. III (1882) p. 285.
 Shyok valley 4600 m, July no. 81.
 Distribution: Temp. and subalp. Himalaya, Kashmir, Mishmi Hills, Khasia Mts.
- Allardia vestita** Hook. f. and Thoms. Hooker Fl. Br. Ind. III (1882) p. 313.
 Kushku Maidan 5300 m, 4 Sept. no. 86.
 Distribution: Western Tibet; Takli pass Zanskar.
- Chrysanthemum Richteria** Benth. Gen. Pl. II (1862—67) p. 426; Hooker Fl. Br. Ind. III (1882) p. 315.
 Saser Brangsa 4635 m, 14 Aug. no. 62. Flowers white. Frequent.
 Distribution: Soongaria.
- Tanacetum tibeticum** Hook. f. and Thoms. ex C. B. Clarke Comp. Ind. (1876) p. 154; Hooker Fl. Br. Ind. III (1882) p. 319.
 Saser Brangsa 4000 m, 28 June no. 67. Flowers yellow. Root very long.

- Distribution: Parang and Lanak passes.
Tanacetum longifolium Wall, Cat. (1828) n. 3231; Hooker Fl. Br. Ind. III (1882) p. 320.
 Nubra valley 3700 m, June no. 18. Growing on a sandy soil between stones.
 Distribution: Western Himalaya; from Kashmir to Kumaon.
 This specimen differs from the specimen ex Herb. Ind. Or. Hook. f. and Thomson Hab. Dras in Kashmir (in Univ. Herb. Utrecht) by the broader involucre bracts and segments of the cauline leaves. No radical leaves were collected.
- Artemisia Dracunculus* L. Sp. Pl. (1753) p. 849; Hooker Fl. Br. Ind. III (1882) p. 321.
 Nubra valley 3600 m, 15 June no. 59. Shyok valley 4600 m, 3 Aug. no. 66 bis.
 Distribution: Affghanistan, W. Asia, S. and M. Russia.
- Artemisia macrocephala* Jacquem. ex. Bess. in Bull. Soc. Nat. Mosc. IX (1836) p. 28; Hooker Fl. Br. Ind. III (1882) p. 329.
 Shyok valley 4600 m, 3 Aug. no. 65. Flowers yellow.
 Distribution: Affghanistan, Central Asia.
- Werneria nana* Benth. Gen. Pl. (1862—67) p. 451; Hooker Fl. Br. Ind. III (1882) p. 357; Dcne in Jacquem. Voy. Ind. (1844) t. 99.
 Shyok valley 4600 m, 12 Aug. no. 28 bis.
 Distribution: Western Tibet; Kiobrung Ghat; Rajhote.
- Saussurea Thomsoni* Clarke Comp. Ind. (1876) p. 227; Hooker Fl. Br. Ind. III (1882) p. 366.
 Kushku Maidan 5200 m, Aug. no. 90 bis.
 Distribution: Western Tibet.
- Saussurea werneroides* Schultz-Bip. Hooker Fl. Br. Ind. III (1882) p. 366.
 Kushku Maidan 4500—5000 m, Aug. no. 83 bis.
 Distribution: Sikkim Himalaya on the Tibetan frontier.
- Crepis glauca* Benth. Gen. Pl. (1862—67) II p. 515; Hooker Fl. Br. Ind. III (1882) p. 394.
 Nubra valley 3000—3700 m, 15 June no. 77. Flowers yellow.
 Rather frequent in a sandy riverbed.
 Distribution: Western Tibet and the Tibetan regions of Lahul and Kumaon.
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