

No. 52. Plants, collected during the year 1922
by Mr. and Mrs. Visser—Hooft during
their Kara-Korum-Expedition

BY

J. TH. HENRARD.

GNETACEAE.

Ephedra Gerardiana Wall. A num. list of dried spec. no. 6048. — ROYLE, Ill. Bot. Him. p. 40, 348! [1839]. — O. STAFF, Die Arten der Gattung Ephedra in Denkschr. der Kais. Akad. d. Wiss. Bd. 56 [1889] p. 75!

Foot of the Lashiglacier, 5090 M., 27 July 1922 (coll. VISSER—HOOFT, no. 35).

Specimens seen: Western Himalaya, Province Lahól. Dartse to Tsanskar Sumdo, 17 June 1856 (SCHLAGINTWEIT no. 4126); Tibet, Province Tsanskar. Pader on the northern foot of the Shinku La Pass to Sulle, 20 and 21 June 1856 (SCHLAGINTWEIT, no. 6259).

CYPERACEAE.

Carex nivalis Boott in Trans. Linn. Soc. XX [1846], p. 136 et Illustr. I. [1858], p. 13 t. 35; G. KÜKENTHAL, Cyperaceae-Caricoideae in A. ENGLER, Pflanzenreich p. 551, fig. 91. A.—D.; PIROTTA e CORTESI, Relazione sulle Piante raccolte nel Karakoram, p. 9.

Shanposhi, 4800 M., 21 July 1922 (no. 22).

Specimens seen: Tibet, Regio alp. coll. THOMSON. (Herb. Ind. Or. Hook. f. et THOMSON); Tibet, Province Balti, Tsogosbang above Barol Brok, right side of the Sospor glacier (SCHLAGINTWEIT, no. 6092). Another specimen named *C. nivalis* from Gyangtse (Tibet frontier commission 1904, collected by Capt. H. J. WALTON. I. M. S.) does not belong to *C. nivalis*.

LILIACEAE.

Allium blandum Wall. Plant. As. Rar. III [1832], p. 38, t. 260!; J. G. BAKER, On the Alliums of India etc. in Journ. Bot. New Series, vol. II [1874], p. 295!; HOOKER, Flora Br. India vol. VI [1894], p. 339!

Manlong valley, very rare, 5090 M., 7 Aug. 1922 (no. 44).

Specimens seen: Tibet Occ. Regio Alp. 13—16000 f. coll. THOMSON (Herb. Hook. f. et Th. sub nom. *A. nutans* L.? et sub *Allium* no. 15); FALCONER no. 1105.

CHENOPODIACEAE.

Halogeton glomeratus C. A. Meyer in LEDEB. Fl. Alt. I. p. 378; BOISS. Fl. Or. IV. p. 985; Moq. in DC. Prod. XIII. 2. p. 206.

Nubravally near Takse, not common, 3250 M., 19 Aug. 1922 (no. 59).

Specimen seen: Tibet Occ. Regio temp. alt. 12—14.000 f. coll. THOMSON in Herb. Hook. f. et Thoms.

POLYGONACEAE.***Polygonum viviparum* L.**

Lashivalley, 4800 M., 27 Juli 1922 (no. 36).

Specimens seen: Tibet Occ. Reg. alp. 13—16.000 f. leg. THOMSON in Herb. Hook. f. et Thoms.; Sikkim Himalaya anno 1885, KING's Collector; Chumbi anno 1878 coll. DUNGBOO (Herb. Hort. Bot. Calcuttensis); Tibet frontier commission 1903 coll. Major F. E. YOUNGHUSBAND no. 57; Sikkim Reg. alp. 11—16.000 f. J. D. HOOKER in Herb. Ind. or. Hook. f. et Thoms.

Oxyria digyna Hill; BOISS. Fl. Or. IV p. 1004; Hooker Fl. Brit. Ind. V. p. 58.

No locality (no. 97).

Specimens seen: Sikkim Himalaya, Samdang to Giagong Sept. 1903, leg. PRAIN; Lachung Valley 12.000 ft. 1892, leg. G. A. GAMMIE; Tibet Occ. Regio alp. 12—15.000 ft., THOMSON (Herb. Hook. f. et Thoms.); Sikkim, Regio temp.-alp. 10—13.000 ft. J. D. HOOKER (Herb. Hook. f. et Thoms.); Tibet, Province Gnari Khorsum, Poling to Bulla La (Northeastern foot of Nelong Pass, 16—18 Sept. 1855, leg. SCHLAGINTWEIT, no. 7290).

URTICACEAE.

Urtica hyperborea Jacquemont mss. in WEDD. Monogr. 68.

Lashivalley, 4800 M., plants about 60 cm. high, 8 Aug. 1922 (no. 42).

Specimen seen: Tibet occ. Regio alp. 12—17.000 f. coll. THOMSON (Herb. Hook. f. et Thoms.).

RANUNCULACEAE.

Delphinium Brunonianum Royle. Illustr. Him. [1839] p. 56; HOOK. Bot. Mag. t. 5461; HOOK. f. Fl. Br. Ind. I [1872] p. 27; HUTH, Monogr. Gatt. Delphinium in ENGLER, Bot. Jahrb. XX. [1895] p. 392; CURTIS, Bot. Mag. t. 5461; PIROTTA e CORTESI, loc. cit. p. 11.

Gongmoolong Valley, 4500—5000 M., common, Sept. 1922 (no. 55).

Specimens seen: Tibet, Prov. Ladak, Yugu to Leh (right side of the Indus valley), Aug. 1856, SCHLAGINTWEIT, no. 1985.

Ranunculus hirtellus Royle. Illustr. p. 53; HOOK. f. Fl. Br. Ind. Vol. I [1872], p. 18.

Lashi glacier, 5090 M., 1 Aug. 1922 (no. 45).

Specimens seen: Sikkim Himalaya anno 1887, DR. KING's collector; N. W. India; Tihri-Garhwal, Kidarkaula, 11—12.000 f. June 1899 DUTHIE no. 1007 d; Sikkim, Regio temp. 10—12.000 f. coll. J. D. HOOKER; Himalaya bor. occ., Regio temp. 7—10.000 f. coll. THOMSON; Tibet, Reg. alp. 15—17.000 f. coll. THOMSON; West Tibet, FALCONER no. 43 et 44.

PAPAVERACEAE.

Papaver nudicaule L., PIROTTA e CORTESI, loc. cit. p. 12; FEDDE, Papaveraceae in ENGLER, Pflanzenreich IV, 104. [1909]. p. 376, 382. Sasir Pass, 4800 M., end of August 1922 (no. 70).

Specimens seen: Tibet, Balti, 12.000 f. leg. WINTERBOTTOM, anno 1847; Ladak, Reg. Alp. 15—17.000 f. leg. THOMSON (Herb. Hook. f. et Thoms.).

All the specimens belong to the subspecies **rubroaurantiacum** (DC.) FEDDE var. **corydalifolium** FEDDE.

CRUCIFERAE.

Draba glacialis Adams in Mem. Soc. Nat. Mosq. V. p. 106; PIROTTA e CORTESI, loc. cit. p. 12.

Lashi Valley, 4800 m, common, 8 Aug. 1922 (no. 50); same locality, in fruit, (no. 38).

Specimens seen: Tibet; Province Ladak, Yugu to Leh, right side of the Indus valley, Aug. 1856, SCHLAGINTWEIT no. 1990.

Draba alpina L.; HOOK. f. Fl. Br. Ind. I p. 142.

var. **pulvinaris** Henr. nov. var..

Perpusilla, subglabra, acaulis.

Forming dense cushions with crowded tufts of nearly glabrous leaves, bright yellow flowers and very short leafless stems.

Kardong Pass, among stones, 4800 M., 14 Aug. 1922, collected by Mrs. VISSER—HOOFD (no. 8).

Matthiola odoratissima Br. in Hort. Kew. ed. 2, IV, p. 120; BOISSIER Fl. Orient. I. p. 149; Bot. Mag. t. 1711.

Nubra Valley near Takse, rather rare, 3250 M., 19 Aug. 1922 (no. 61), in fruit.

Specimens seen: West Tibet, FALCONER, no. 138; THOMSON in Herb. Hook. f. et Th.; Also in Asia Minor and the Caucasus.

CRASSULACEAE.

Sedum Rhodiola DC. Prodr. III p. 401; Hook. f. Fl. Brit. Ind. II. [1878] p. 417!

Shanposhi glacier, 4000 M., 21 July 1922 (no. 25).

Distribution: The arctic and alpine regions of America, Europe and Asia. Alpine Western Himalaya frequent.

SAXIFRAGACEAE.

Saxifraga flagellaris Willd. ex STERNB. Rev. [1810] p. 25, t. 6; Hook. f. Fl. Brit. Ind. II. [1879], p. 397; ENGLER et IRMSCHER Pflanzenreich [1916] IV. 117. I. p. 159; PIROTTA e CORTESI; Relazione etc. loc. cit. p. 14.

Sasir Pass; 5000 M., 15 Aug. 1922 (no. 54).

Specimens seen: Sikkim, Regio Alp. 15—18.000 f. J. D. HOOKER; West Tibet, Reg. Alp. 15—17.000 f. THOMSON (Herb. Hook. f. et Th.); FALCONER, no. 461; Naku La, 29.7. 1903, Tibet Frontier Commission, coll. Major F. E. YOUNGHUSBAND, no. 226. All the specimens represent ROYLE'S var. *mucronulata*.

Saxifraga oppositifolia L. subsp. *asiatica* (v. Hayek) E. et I. ENGLER et IRMSCHER, Pflanzenreich [1919] IV. 117. II. p. 640, Hook. f. Fl. Brit. Ind. II [1879]. p. 397.

Shanposhi, on stones, 23 July 1922 (no. 27).

ROSACEAE.

Potentilla fruticosa L. var. *pumila* Hook. f. Fl. Brit. Ind. Vol. II [1879] p. 348; TH. WOLF, Monogr. d. Gattung *Potentilla*, p. 59; PIROTTA e CORTESI, Relazione sulle Piante raccolte nel Karakoram [1912] (estratto) p. 15.

No locality (no. 52).

Specimens seen: Tibet; Province Balti, Tsogobang above Barol

Brok (right side of the Sospór glacier), 17 July 1856. SCHLAGINTWEIT no. 6080; West Tibet, FALCONER no. 375; HOOKER.

Potentilla Salesowiana Stephan. Mém. Soc. Nat. Mosc. II. 6. ic. tab. 3 [1809]; HOOK. f. Fl. Br. Ind. vol. II [1879] p. 348; TH. WOLF, Monogr. d. Gattung *Potentilla*, p. 74.

Sasirpass, shrub in sand, with white flowers, end of August 1922, 3800 M. (no. 85).

Specimens seen: Tibet, Province Balti, Motsori on the left side of the Tsarkonda glacier, 30 July 1856, SCHLAGINTWEIT, no. 5888; West Tibet, FALCONER, no. 376; Piti and Ladak, Regio alp. 11—14,000 f. coll. THOMSON (Herb. Hook. f. et Th.); Altai anno 1839 Herb. BUNGE.

Potentilla bifurca L. var. *Moorcroftii* (Wall.) Th. Wolf Monogr. d. Gattung *Potentilla*, p. 64 = *Potentilla Moorcroftii* WALLICH Cat. pl. Ind. Or. 28 [1829]; LEHM. Rev. Pot. 23, ic. t. 3. fig. 2.; PIROTTA e CORTESI loc. cit. p. 16.

Gongmoolong valley, on rocks, 4300 M., Aug. 1922 (No. 21.)

Specimens seen: Kuenluen, Prov. Yarkand, Plateau on the foot of the Karakorum (northeast of the Karakorum Pass), coll. 10—11 August 1856, SCHLAGINTWEIT, no. 12802; Tibet, Gyantse, July-Sept. coll. Capt. H. J. WALTON I. M. S. (Tibet Frontier Commission, 1904).

Potentilla Saundersiana Royle, Illustr. of Himal. mount. II. 207, ic. t. 41 [1839]; LEHM. Rev. Pot. 114; TH. WOLF Monogr. d. Gattung *Potentilla* p. 242.

Above Popache, 4660 M., 1 Sept. 1922 (No. 63).

Specimens seen: West Tibet, Herb. FALCONER, no. 382.

Sibbaldia tetranda Bunge Enum. Pl. Alt. p. 17 = *Sibbaldia procumbens* var. *tibetica*, Herb. Hook. f. et Thomson.

No locality (no. 53).

Specimens seen: Tibet, Regio alp. 14—18,000 f. coll. THOMSON (Herb. Hook. f. et Thoms.); Altai or., HENSCHEL, BUNGE.

PAPILIONACEAE.

Astragalus cicerifolius Royle ap BUNGE, Generis *Astragali* I. [1868] p. 44 in Mém. Acad. Imp. scienc. St. Petersb. VIIe série T. XI, no. 16.

Thalam Buti, 3800 M., (no. 12).

Specimens seen: Tibet; Province Balti, Skardo to Satpar (south of Skardo), 2 Sept. 1856, SCHLAGINTWEIT, no. 5508; Tibet Occ. Regio temp. alt. 10—14,000 f. coll. THOMSON (Herb. Hook. f. et Thoms.).

Astragalus confertus Benth. ap BUNGE in Mém. Acad. Imp. St. Petersb. loc. cit. p. 23; Hook. f. Fl. Br. Ind. II. p. 123.

Gongmoolong Valley, 4500—5000 M., common, 16 Aug. 1922 (no. 58).

Specimens seen: Tibet occ. Regio alp., 15—17.000 f. coll. THOMSON (Herb. Hook. f. et Thoms.).

Oxytropis microphylla DC. Prod. II p. 279; PIROTTA e. CORTESI, Relazione sulle Piante racc. nel Karakoram, p. 16.

Thalam Buti, 3800 M., 19 July 1922 (no. 14).

Specimens seen: Himalaya, JACQUEMONT (sub. nom. *O. chiliophylla* Royle); Tibet: Province Tsanskar, Pader on the northern foot of the Shinku La Pass to Sulle 20 June 1856, SCHLAGINTWEIT, no. 6238; Tibet Occ. Regio alp., 11—16.000 f. coll. THOMSON.

GERANIACEAE.

Biebersteinia odora Stephan ex FISCH. Hort. Gorenk. ed. 1. [1808] p. 88; Royle, Illustr. Bot. Himal. I. [1839] p. 153 t. 130; = *B. Emodii* JAUB et SPACH, Illustr. II. [1844—1846] p. 109; KNUTH, in ENGLER, Pflanzenreich [1912] IV. 129, p. 548.

No locality (no. 96).

Specimens seen: Tibet; Province Balti, Khapalu, on the left side of the Shayok, 12 July 1856 leg. SCHLAGINTWEIT, no. 5711; Tibet Occ. Regio alp., 14—17.000 f. coll. THOMSON (Herb. Hook. f. et Thoms.).

UMBELLIFERAE.

Heracleum pinnatum Clarke in Hook. f. Fl. Brit. Ind. II [1879] p. 712.

No precise locality, 4300 M., flowers white, Aug. 1922 (no. 57).

Specimens seen: Tibet; Province Ladak, Kharbu Koma to Shaksi, southwest of Dah, 3 July 1856 coll. SCHLAGINTWEIT, no. 5357; Tibet Occ. Regio temp. et alp. 10—16.000 f. coll. THOMSON, (*Heracleum* no. 14, Herb. Hook. f. et Th.).

PRIMULACEAE.

Primula nivalis Pallas var. *macrophylla* (Don) Pax, Primulaceae in ENGLER, Pflanzenreich IV. 237. [1905] p. 103 = *Pr. purpurea* ROYLE, Illustr. Bot. Him. Mount. [1839]. p. 311 t. 77 f. 2.

No precise locality, July 1922, common (no. 30).

PLUMBAGINACEAE.

Acantholimon lycopodioides Boiss. in DC. Prodr. XII. p. 632; Hook. f. Fl. Brit. Ind. III [1882], p. 479 = *Acantholimon tibeticum*, Hook. f. et Th. Herb. Ind. Or..

Thalam Buti, 3800 M., 19 July 1922 (no. 16).
Specimens seen: Tibet Occ. Regio alp. coll. THOMSON (Herb. Hook. f. et THOMS.); FALCONER, no. 817 (Herb. East India Comp.).

BORRAGINACEAE.

Eritrichium strictum Dene. in JACQUEM. Voy. Bot. 125, Hook. f. Fl. Britt. Ind. IV [1883] p. 164.

Lashi glacier, common, 4800 M., 8 Aug. 1922 (no. 39).
Specimens seen: Western Himalaya; Prov. Lahol, Kardong to Dartse in the Bhaga Valley, June 1856 (SCHLAGINTWEIT, no. 2787); Kardong up to the limit of trees (slopes on the left side of the Bhaga river), June 1856 (SCHLAGINTWEIT, no. 3701); Tibet, Prov. Balti, Tsogosbang above Barol Brok (right side of the Sosporglacier), July 1856, (SCHLAGINTWEIT, no. 6100); Tibet Occ. 13—14.000 f. coll. THOMSON (Herb. Hook. f. et Th.); sine loco, FALCONER.

Eritrichium strictum Dene. var. *albiflorum* Henr..

Flowers white.

Lashi glacier, 4800 M., 8 Aug., 1922 (no. 39a).

LABIATAE.

Perowskia abrotanoides Karelin in Bull. Mosq. [1841], p. 15, t. 1; Hook. f. Fl. Br. Ind. IV [1885], p. 652.

Nubra Valley near Takse, a common shrub 75 cm. high, 3250 M., 19 Aug. 1923 (no. 60).

Specimens seen: Tibet; Prov. Balti, Kunes (on the right side of the Shayok) via Kiris to Neru (on the right side of the Indus) Aug. 1856 (SCHLAGINTWEIT, no. 5832); Khapalu (on the left side of the Shayok), July 1856 (SCHLAGINTWEIT, no. 5735); Prov. Nubra, Kardong to Diskit on the left side of the Shayok, July 1856 (SCHLAGINTWEIT, no. 2270); Tibet Occ. Regio temp. 9—11.000 f. coll. THOMSON (Herb. Hook. f. et Th.).

Nepeta longibracteata Benth. Lab. 737, et in DC. Prodr. XII. p. 392; PIROTTA e CORTESI, loc. cit. p. 19.

Kardong Pass; 5000 M., 14 Juli 1922 (no. 3).

Specimens seen: Tibet Occ. Regio alp. 17.000 f. coll. THOMSON (Herb. Hook. f. et Th.).

SOLANACEAE.

Physochlaina praealta (Dene) Hook. f. Bot. Mag. t. 4600, = *Bellia praealta* DCNE in JACQUEM. Voy. Bot. 144, t. 120; Hook. f. Fl. Brit. Ind. IV. [1883] p. 244.

Near Umlung, 3800 M., 29 July 1923 (No. 18), flowers yellow, said to be poisonous by the coolies.

Specimens seen: Tibet Occ. Regio temp. et alp. 12—16.000 f. coll. THOMSON (Herb. Hook. f. et Th.).

SCROPHULARIACEAE.

Lagotis globosa Kurz in Journ. As. Soc. XXXIX. 2, 80, t. 7, f. 1; Hook. f. Fl. Brit. Ind. IV [1885], p. 558.

Lashi glacier, 5090 M., very rare, 8 Aug. 1922 (no. 43).

No other specimens seen.

Pedicularis cheilanthifolia Schrenk in FISCH. et MEY. Enum. Pl. Nov. Fasc. II p. 19; Hook. f. Fl. Brit. Ind. IV. p. 308.

Lashi Valley, 4800 M., common, 8 Aug. 1922 (no. 37).

Specimens seen: Phari, anno 1879 leg. DUNGBOO; Tibet Occ. Regio alp. 11—15.000 f. leg. THOMSON (Herb. Hook. f. et Th.).

COMPOSITAE.

Aster tibeticus Hook. f. Fl. Brit. Ind. III [1881], p. 251!

Lashi glacier, 4800 M., flowers lilac, 8 Aug. 1922 (no. 49).

No other specimens seen.

Crepis flexuosa Clarke, Comp. Ind. 254; Hook. f. Fl. Brit. Ind. III [1881], p. 394! = *Crepis glauca* Benth. in Gen. Pl. II. p. 515.

Thalam Buti, 3800 M., 19 July 1922 (no. 9).

Specimens seen: Tibet occ. Regio temp. et alp., 8—17.000 f. coll. THOMSON (Herb. Hook. f. et Th.), sub nom. *Youngia flexuosa* Edgew.

Allardia vestita Hook. f. et Th.; Clarke Comp. Ind. 148; Hook. f. Fl. Brit. Ind. III [1881], p. 313!

Upper Nubra Valley, 4200 M., Sept. 1922 (no. 91).

Specimens seen: Western Tibet; Taklipass, Zanskar, alt. 15—16.000 f. coll. THOMSON.

Allardia tomentosa Dene in Jacq. Voy. Bot. 87, t. 95; Hook f. Fl. Brit. Ind. III [1881], p. 313!

Shamposhi glacier, 4500 M., 21 Aug. 1922 (no. 24).

Specimens seen: Western Tibet, reg. alp. 13—16.000 f. coll. THOMSON.

Taraxacum officinale Wigg.

Lashi Valley, not very common, 4800 m, 8 Aug. 1922 (no. 40).

Artemisia maritima L.

Thalam Buti, 3800 m, 19 July 1922 (no. 13).

Erigeron andryaloides Benth. in herb. Kew; Clarke Comp. Ind. 52; = *Conyza andryaloides* DC. Prodr. V. p. 377.

Thalam Buti, 3800 M., 19 Juli 1922 (no. 15).

Saussurea sorocephala Hook. f. et Th. in Clarke Comp. Ind. 226; = **Haplotaxis sorocephala** Schrenk, Enum. Pl. Nov. I, p. 43. Lashi glacier, on moraine, 5090 M., 27 July 1922 (no. 33).

Specimens seen: Western Tibet, Regio alp. alt. 15—18.000 f. coll. THOMSON.

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