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A list of mosses from Kashmir and Pakistan

A. NOGUCHI

Several publications by BROTHÉRUS, DIXON, STØRMER, BARTRAM, etc. have appeared on the mosses of Kashmir and the northern region of Pakistan. Additional but fragmentary, contributions are also found in NOGUCHI's papers. The following list is based on a small collection made by F. SCHMID in 1953-1954.

POLYTRICHACEAE

Atrichum undulatum var. **haussknechtii** (Jur. & Milde) Frye.

DISTR.: Northern hemisphere.

KASHMIR: Shekh Bela (between Shardi and Kel), alt. 2000-2100 m, Aug. 14, 1953, *Schmid 10057*.

Polytrichum juniperinum Hedw.

DISTR.: Almost cosmopolitan.

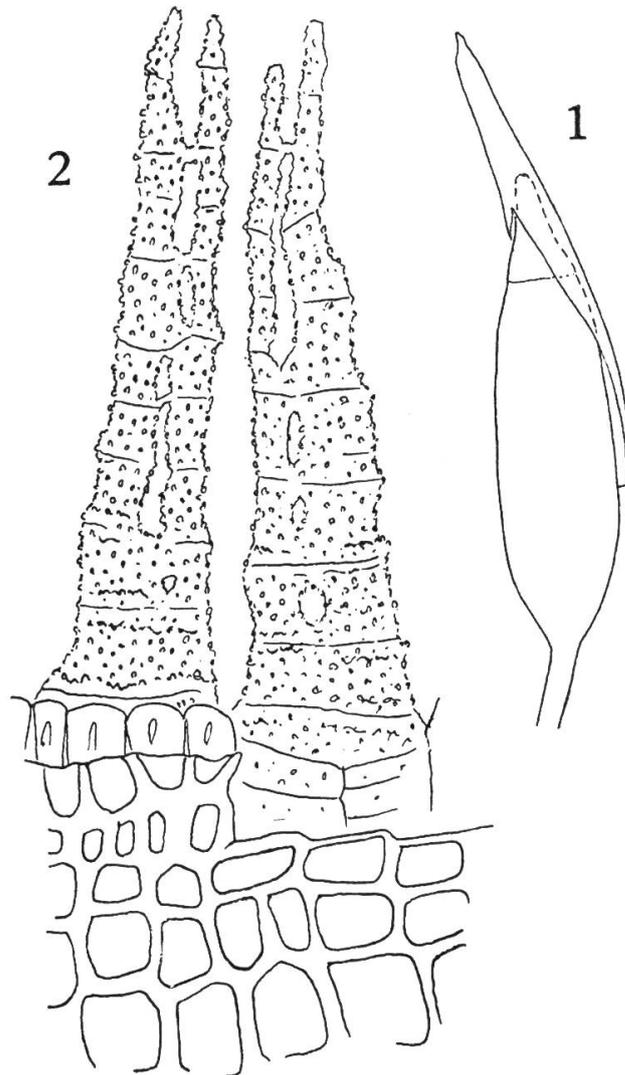
PAKISTAN: N-W Frontier Prov., Salf-ul-Maluk-Sar, alt. 3750 m, July 1-4, 1953, *Schmid 10006*; N-W Frontier Prov., Gittadas, alt. 4300 m, July 15, 1953, *Schmid 10022*.

FISSIDENTACEAE

Fissidens cristatus Wils.

DISTR.: Northern hemisphere.

KASHMIR: Shekh Bela, alt. 2000-2100 m, Aug. 14, 1953, *Schmid 10073*.



Bryoerythrophyllum yunnanense (Herz.) Chen
1, capsule with calyptra, $\times 13$ – 2, peristome teeth, $\times 300$.

Fissidens grandifrons Brid.

DISTR.: Europe, Asia, North America.

KASHMIR : Shekh Bela, alt. 2000-2100 m, Aug. 14, 1953, *Schmid 10060A, 10061*.

DICRANACEAE

Oncophorus virens (Hedw.) Brid.

DISTR.: North Europe, North Asia.

PAKISTAN : N-W Frontier Prov., Gittidas, alt. 4300 m, July 20, 1953, *Schmid 10033*.

POTTIACEAE

Timmiella anomala (BSG) Limpr.

DISTR.: Europe, Himalayas, Formosa, Japan, California, Florida, Mexico.

KASHMIR: between Dhanni and Rampur, alt. 1130-1400 m, May 14-15, 1954, *Schmid 10444, 10446*.

Bryoerythrophyllum yunnanense (Herz.) Chen (Tab. 1).

DISTR.: China, West Himalayas.

KASHMIR: Between Dhanni and Rampur, alt. 1130-1400 m, May 14-15, 1954, *Schmid 10444a*.

OBS.: As the sporophytes of this species have hitherto been unknown, the brief description is added here.

Inner perichaetial bracts hardly differentiated. Seta terminal, reddish, 6-8 mm long, 0.15 mm wide. Capsule erect, oblong cylindrical \pm asymmetrical, yellowish brown, $1.3-1.6 \times 0.55-0.6$ mm. Peristome teeth linear-lanceolate, apex obtuse, \pm irregular in outline, longitudinally perforate, pellucid, about 0.17 mm long, densely papillose, the papilla somewhat irregular in shape. Spores globose, minutely papillose, $15-17 \mu$ in diam. Calyptra cucullate, yellowish, apex brown, smooth, 2-2.3 mm long.

Pleurochaete squarrosa (Brid.) Lindb.

DISTR.: Europe, Caucasus, Iran, Himalayas, Yunnan, North America.

KASHMIR: Muzaffarabad, alt. 700 m, June 16-23, 1953, *Schmid 10001*.

Eucladium verticillatum (Smith) BSG.

DISTR.: Europe, Caucasus, Asia Minor, China, Japan, North America, Algeria, Egypt.

KASHMIR: Between Doarian and Shardi, in moist forest near a spring, alt. 1910-1975 m, May 16-17, 1954, *Schmid 10450*.

GRIMMIACEAE

Grimmia pulvinata Hook & Tayl.

DISTR.: Europe, Algeria, Caucasus, West & Central Asia, North America.

KASHMIR: Chittakatha Sar. alt. 4500 m, Aug. 21-24, 1953, *Schmid 10080*.

BRYACEAE

Mielichhoferia lahulensis Williams ?

DISTR.: Himalayas.

KASHMIR : Between Dhanni and Rampur, alt. 1130-1400 m, May 14-15, 1954, *Schmid 10441*.

OBS.: In these specimens the costa of the leaves seems to be longer, reaching the leaf point, than that described in the original description of *M. lahulensis*. With this exception the specimen agrees in most respects with the original description.

Pohlia wahlenbergii (Web. & Mohr) Andrews

DISTR.: Almost cosmopolitan.

PAKISTAN : N-W Frontier Prov., Besal, alt. 3800 m, July 8-9, 1953, *Schmid 10019*; N-W Frontier Prov., Salf-ul-Maluk-Sar, alt. 3570 m, July 1-4, 1953, *Schmid 10018*; prov. Chitral, Shogo, alt. 1900 m, Oct. 16, 1954, *Schmid 10488*.

Bryum caespiticium Hedw.

DISTR.: Almost cosmopolitan.

PAKISTAN : N-W Frontier Prov., Gittidas, alt. 4300 m, July 20, 1953, *Schmid 10034*.

Bryum pallescens Schleich.

DISTR.: Circumboreal.

KASHMIR : Ulter nullah, near Baltit, alt. 2600-3250 m, June 18, 1954, *Schmid 10467*.

Bryum pseudotriquetrum (Hedw.) Schw.

DISTR.: Almost cosmopolitan.

KASHMIR : Between Doarian and Shardi, in moist forest near a spring, alt. 1910-1975 m, May 16-17, 1954, *Schmid 10451*; Arkasi, alt. 2600 m, May 23, 1954, *Schmid 10456*; Ulter nullah, near Baltit, alt. 2600-3250 m, June 18, 1954, *Schmid 10466*, *10468*; Ano Gol, alt. 3240-3730 m, Sept. 9, 1954, *Schmid 10484*; Skardu, Sept. 18-Oct. 13, 1953, *Schmid 10082*. PAKISTAN : N-W Frontier Prov. Salf-ul-Maluk-Sar, alt. 3570 m, July 1-4, 1953, *Schmid 10007*; N-W Frontier Prov., Gittidas, alt. 4300 m, July 20, 1953, *Schmid 10030*, *10031*; Frontier Prov. Chumarkhan Pass, alt. 4540 m, Oct. 1, 1954, *Schmid 10485*, *10486*, *10487*.

Bryum turbinatum (Hedw.) Schwgr.

DISTR.: Circumboreal.

PAKISTAN: N-W Frontier Prov., Gittidas, alt. 4300 m, July 20, 1953, *Schmid 10028*.

MNIACEAE

Mnium longirostre Brid.

DISTR.: Almost cosmopolitan.

KASHMIR: Between Doarian and Shardi, in moist forest near a spring, alt. 1910-1975 m, May 16-17, 1954, *Schmid 10452* (mixed with *Brachythecium rivulare*); Kar-gah, near Gilgit, alt. 2600-2900 m, July 15, 1954, *Schmid 10477* (mixed with *Cratoneuron filicinum*).

Mnium marginatum (With) Beauv.

DISTR.: Northern hemisphere.

KASHMIR: Shardi, alt. 2000 m, Aug. 1-10, 1953, *Schmid 10041*; Arkasi, alt. 2600 m, May 23, 1954, *Schmid 10458*.

Mnium stellare Hedw.

DISTR.: Northern hemisphere.

KASHMIR: Between Dhanni and Rampur, alt. 1130-1400 m, May 14-15, 1954, *Schmid 10440*.

AULACOMNIACEAE

Aulacomnium palustre (Hedw.) Schwgr.

DISTR.: Almost cosmopolitan.

PAKISTAN: N-W Frontier Prov., Gittidas, alt. 4300 m, July 20, 1953, *Schmid 10023*, *10032*.

BARTRAMIACEAE

Plagiopus oederi (Brid.) Limpr.

DISTR.: Northern hemisphere.

KASHMIR: Between Dhanni and Rampur, alt. 1130-1400 m, May 14-15, 1954, *Schmid 10442*; Shekh Bela, between Shardi and Kel, alt. 2000-2100 m, Aug. 14, 1953, *Schmid 10056*.

Bartramia pomiformis var. **crispa** (Web. & Mohr) BSG.*DISTR.*: Northern hemisphere.

KASHMIR: Between Dhanni and Rampur, alt. 1130-1400 m, May 14-15, 1954, *Schmid 10438*.

Philonotis fontana (Hedw.) Brid.*DISTR.*: Northern hemisphere.

KASHMIR: Between Gilgit and Imit, alt. 1620-2580 m, July 28, 1954, *Schmid 10478*; Arkasi, alt. 2600 m, May 23, 1954, *Schmid 10457* (mixed with *Brachythecium rivulare*), *10459*, *10460*; Ano Gob, alt. 3240-3730 m, Sept. 9, 1954, *Schmid 10482*, *10483*; Surgun, alt. 3200-4000 m, July 28, 1953, *Schmid 10040*. PAKISTAN: N-W Frontier Prov., Gittidas, alt. 4300 m, July 20, 1953, *Schmid 10029*.

TIMMIACEAE

Timmia bavarica Hessel.*DISTR.*: Europe, Algeria, Caucasus, West Himalayas, Central China, North America.

KASHMIR: Arkasi, alt. 2600 m, May 23, 1954, *Schmid 10454*.

THUIDIACEAE

Claopodium pellucinerve Mitt.*DISTR.*: North East Asia, North West Himalayas, Alaska, Mexico.

KASHMIR: Shekh Bela, between Shardi and Kel, alt. 2000-2100 m, Aug. 14, 1953, *Schmid 10072* (with *Hypnum cupressiforme*); between Dhanni and Rampur, alt. 1130-1400 m, May 14-15, 1954, *Schmid 10443*.

AMBLYSTEGIACEAE

Cratoneuron commutatum (Hedw.) Roth.*DISTR.*: Northern hemisphere.

KASHMIR: between Doarian and Shardi, in moist forest, near a spring, alt. 1910-1975 m, May 16-17, 1954, *Schmid 10449*, *10453*. Prov. Chitral, Yarkhun, alt. 4000 m, Aug. 22-27, 1954, *Schmid 10479*.

var. **irrigatum** (Zett.) Moenk.

PAKISTAN: N-W Frontier Prov., Salf-ul-Maluk-Sar, alt. 3570 m, July 1-4, 1953, *Schmid 10005*; Gittidas, alt. 4300 m, July 20, 1953, *Schmid 10025*.

var. **falcatum** (Brid.) Moenk.

KASHMIR: Shekh Bela, between Shardi el Kel, alt. 2000-2100 m, Aug. 14, 1953, *Schmid 10062*; Ano Gol, alt. 3240-3730 m, Sept. 9, 1954, *Schmid 10481*.

Cratoneuron filicinum (Hedw.) Roth.

DISTR.: Northern hemisphere.

KASHMIR: Kar-Gah, near Gilgit, alt. 2600-2900 m, July 15, 1954.

Leptodictyum riparium var. **longifolium** BSG.

DISTR.: Northern hemisphere.

PAKISTAN: N-W Frontier Prov., Gittidas, alt. 4300 m, July 20, 1953, *Schmid 10024*. KASHMIR: Holska, near Nagar, alt. 3100-3250 m, June 20, 1954, *Schmid 10469*.

Drepanocladus exannulatus (BSG.) Warnst.

DISTR.: Northern hemisphere.

KASHMIR: Bara Deosai, Marais, alt. 4100 m, Sept. 11-13, 1953, *Schmid 10081*.

BRACHYTHECIACEAE

Camptothecium lutescens BSG.

DISTR.: Europe, Canary, Caucasus, Western regions of North America.

KASHMIR: Between Dhanni and Rampur, alt. 1130-1400 m, May 14-15, 1954, *Schmid 10445*.

Eurhynchium strigosum BSG.

DISTR.: Northern hemisphere.

KASHMIR: Between Dhanni and Rampur, alt. 1130-1400 m, May 14-15, 1954, *Schmid 10437*.

Brachythecium rivulare (Bruch) BSG.

DISTR.: Northern hemisphere.

KASHMIR: between Rawat and Yasin, alt. 2600-2900 m, Sept. 1954, *Schmid 10480*.

Brachythecium rutabulum (Hedw.) BSG.*DISTR.*: Almost cosmopolitan.KASHMIR: Shardi, alt. 2000 m, Aug. 1-10, 1953, *Schmid 10044*.**Plagiothecium silvaticum** (Huds.) BSG.*DISTR.*: Northern hemisphere.KASHMIR: Shekh Bela, between Shardi and Kel, alt. 2000-2100 m, Aug. 14, 1953, *Schmid 10055*.

HYPNACEAE

Hypnum cupressiforme Hedw.*DISTR.*: Cosmopolitan.KASHMIR: between Dhanni and Rampur, alt. 1130-1400 m, May 14-15, 1954, *Schmid 10439*.

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