

神戸大学西蔵学術登山隊によって採集された川蔵小路の蘚苔類

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Hiroshi DOEI,* Yoshiaki TAKEDA** and Jinting WANG*** :
**Bryophytes from Chuanzang Route Collected
 by the Tibet Mountaineering and Scientific
 Expedition of Kobe University in 1986**

土永浩史*・武田義明**・王 金亭***：神戸大学西藏学術登山隊
 によって採集された川蔵公路の蘚苔類

In April, 1986, Dr. K. HIRAI of Kobe University and his mountaineering party reached the summit of Kulakangri, 7554 m alt., in East Tibet (Xizang), China. During the scientific expedition, from March to May, the second and third authors were members of the party which visited East Tibet and West Sichuan, and collected bryophytes in the Chuanzang Route from Lhasa to Chengdou (Fig. 1, Table 1). The present collection was mainly made in the East Tibet highlands (2000-5000 m alt.), including specimens from the base camp (in Mengda).

The main vegetation types of the region are summarized as follows ;

- Lakang ... coniferous and sclerophyllous forests (*Abies densa*, *Picea likiangensis* var. *linzhiensis*, *Pinus griffithii*, *Quercus semicarpifolia*).
- Shengge ... coniferous forest and shrub (*Picea likiangensis* var. *linzhiensis*, *Calagana jubata*, *Ceratostigma minus*).
- Mengda ... cushion plant community (*Androsace* (Base Camp) *lapete*, *Arenaria bryophylla*) and grassland (*Orinus throidii*, *Stipa purpurea*).
- Miling coniferous and sclerophyllous forests (*Pinus densata*, *Quercus aquifolioides*).
- Tangmai ... evergreen and deciduous mixed forests (*Quercus toungmaiensis*, *Populus ciliata* var. *gyirongensis*).
- Yigong coniferous forests (*Pinus armandi*,

P. densata).

Bomi coniferous and sclerophyllous forests (*Pinus densata*, *Picea*, *Quercus*).

Yajiang ... coniferous forest (*Pinus densata*).

Luting evergreen and deciduous mixed forests (*Lithocarpus*, *Quercus*, *Cercidiphyllum*, *Davidia*).

The bryophyte flora of Tibet had been very poorly known before LI *et al.* (1985), who recorded 754 species of bryophytes under 254 genera, 62 families. Thirteen species (eight mosses and five liverworts) that were not recorded by LI *et al.* are found in our collection ; they are marked with an asterisk in the text.

The specimens are all located in the herbarium of Hattori Botanical Laboratory (NICH) and many of the duplicates in the Institute of Botany, Academia Sinica. The collector names Y. TAKEDA and J. WANG are abbreviated as YT. The names of specialists who identified the specimens follow each specimen number.

We are much indebted to Prof. N. KITAGAWA of Nara University of Education who read the manuscript and gave us valuable suggestions. And also greatly indebted to Dr. A. NOGUCHI of Hattori Botanical Laboratory, Dr. H. DEGUCHI of Kochi University, Emer. Prof. H. ANDO of Hiroshima University, Emer. Prof. N. TAKAKI of Nagoya University, and Mr. H. AKIYAMA of Kyoto University, who took the trouble to identify mosses. We wish to express our cordial thanks to the late Prof. S. NAKANISHI and Prof.

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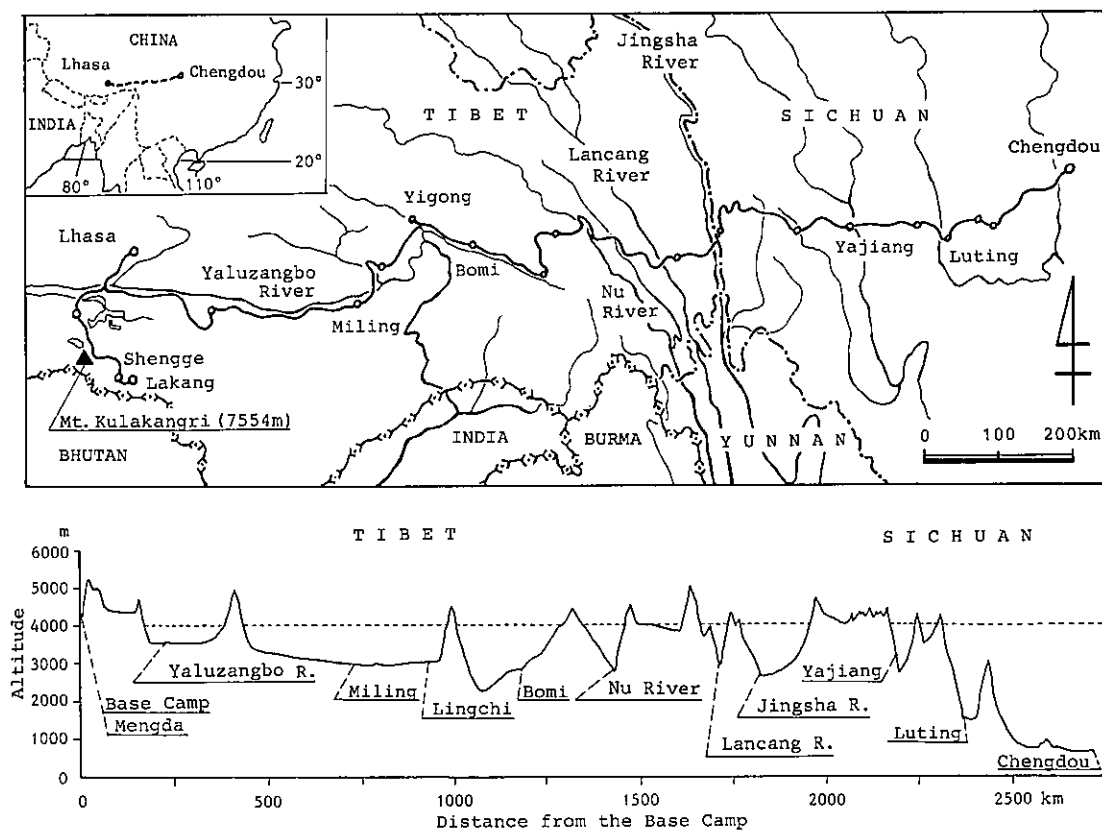


Fig. 1. Map showing the Chuanzang Route investigated by the Tibet mountaineering and scientific expedition of Kobe University (upper) and its vertical route section (lower).

M. TAMURA of Kobe University for their kind advice and encouragement throughout this study.

Enumeration of the Species
MUSCI

Polytrichaceae

Atrichum undulatum (HEDW.) P. BEAUV., Prodr. 42 (1805).

Specim. exam.: Bomi, Yigong, ca. 2370 m alt., on rotten log, YT-860428-3 (Ver. A. NOGUCHI).

Table 1. Date and collecting sites during the scientific expedition by Kobe University from March to May in 1986.

Date	Locality	Altitude (m)
March 22-27	Xizang, Lhozhag, Lakang	3260-3880
April 2-3	Xizang, Lhozhag, Shengge	3560-3900
6-12	Xizang, Lhozhag, Mengda (Base Camp)	4400-5010
20	Xizang, Lang, Miling	3060-3070
21	Xizang, Lingchi, Lingchi-Pai	3030
25	Xizang, Bomi, Tangmai	2340-2390
28	Xizang, Bomi, Yigong	2340-2390
May 2	Xizang, Bomi, Bomi,	2840
4	Xizang, Bomi, Bomi-Ranwu	3410
14	Sichuan, Yajiang,	2370-3120
27	Sichuan, Tianquan	1270

Distr.: Widely distributed in Northern Hemisphere.

Pogonatum aloides (HEDW.) P. BEAUV., Prodr. 84 (1805).

Specim. exam.: Bomi, Yigong, ca. 2370 m alt., on soil, YT-860428-4 (Det. A. NOGUCHI).

Distr.: Europe, East Africa, Himalaya, China, and Japan.

Pogonatum perichcoetiale (MONT.) JAEG., Ber. S. Gall. Naturw. Ges. 1873-74: 257 (1875).

Specim. exam.: Lhozhag, Mengda (Base Camp-Attack Base Camp), ca. 5010 m alt., at waterway on soil, YT-860409-2 (Det. A. NOGUCHI).

Distr.: India, Himalaya, and West China.

Polytrichum juniperinum WILLD. ex HEDW., Spec. Musc. 89 (1801).

Specim. exam.: Lhozhag, Lakang, ca. 3390 m alt., on soil, YT-860325-6a (Ver. A. NOGUCHI).

Distr.: Cosmopolitan.

Dicranaceae

Dicranum fuscescens TURN., Musc. Hib. 60 (1804).

Specim. exam.: Lhozhag, Zengeshan, ca. 3830 m alt., on soil, YT-860327-2 (Det. A. NOGUCHI).

Distr.: Widely distributed in Northern Hemisphere.

Distichium capillaceum (HEDW.) B. S. G., Bryol. Eur. 2: 156 (1846).

Specim. exam.: Lhozhag, Shengge, ca. 3560 m alt., on soil, YT-860403-1a (Det. A. NOGUCHI).

Distr.: Cosmopolitan.

Pottiaceae

Barbula sp.

Specim. exam.: Lhozhag, Lakang, ca. 3260 m alt., on soil, YT-860322-5b; Bomi, Yigong, ca. 2370 m alt., on concrete, YT-860428-7b, YT-860428-8; Yajiang, ca. 3120 m alt., on rock, YT-860514-13d.

Didymodon cf. *nigrescens* (MITT.) SAITO, Journ. Hattori Bot. Lab. 39: 510 (1975).

Specim. exam.: Lhozhag, Mengda (Base Camp), ca. 4400 m alt., on soil, YT-860406-2 (Det. H. DEGUCHI).

Distr.: Himalaya, China, and Japan.

Trichostomum sp.

Specim. exam.: Yajiang, ca. 3120 m alt., on rock, YT-860514-13e.

Weissia sp.

Specim. exam.: Bomi, Yigong, ca. 2410 m alt., on fallen log, YT-860428-11.

Grimmiaceae

**Grimmia affinis* HORNSCH., Flora 2: 443 (1819).

Specim. exam.: Lang, Miling, ca. 3070 m alt., on rock, YT-860420-11 (Det. H. DEGUCHI).

Distr.: Europe, North Africa, Caucasus, Himalaya, China, Japan, New Guinea, North and South America.

This species was recorded from Tibet by CAO and VITT (1986).

Grimmia apiculata HORNSCH., Flora 2: 85 (1819).

Specim. exam.: BC-ABC (Base Camp-Attack Base Camp), ca. 5000 m alt., on rock, YT-860412-1a (with *Grimmia affinis*, Det. H. DEGUCHI), YT-860412-1b.

Distr.: Europe, India, Himalaya, China, and Japan.

Grimmia donniana SM., Engl. Bot. 18: 1259 (1804).

Specim. exam.: Lhozhag, Mengda (Base Camp), ca. 4420 m alt., on rock, YT-860406-7 (Det. H. DEGUCHI), YT-860406-8a (Det. H. DEGUCHI).

Distr.: Europe, North Africa, Caucasus, North-western India, China, East Siberia, Japan, Kamchatka, North and South America, and Antarctica.

**Grimmia khasiana* MITT., Journ. Linn. Soc. Bot. Suppl. 1: 45 (1859).

Specim. exam.: Lhozhag, Lakang, ca. 3260 m alt., on rock, YT-860322-12 (Det. H. DEGUCHI); Bomi, Pai, ca. 3030 m alt., on rock, YT-860421-2 (Det. H. DEGUCHI).

Distr.: Himalaya and China.

Ptychomitrium tortula (HARV.) JAEG., Ber. S. Gall. Naturw. Ges. 1872-73: 105 (1874).

Specim. exam.: Bomi, Yigong, ca. 2370 m alt., on concrete, YT-860428-7a (Det. H. DEGUCHI); Yajiang, ca. 3120 m alt., on rock, YT-860514-9 (Det. H. DEGUCHI), YT-860514-10c.

Distr.: Nilghri, Himalaya, and China.

**Racomitrium javanicum* DOZY et MOLK. in Zoll., Syst. Verz. 32 (1855).

Specim. exam.: Lhozhag, Lakang, ca. 3900 m alt., on rock, YT-860402-2 (Det. H. DEGUCHI), YT-860402-3 (Det. H. DEGUCHI).

Distr.: Himalaya and Java.

**Schistidium strictum* (TURN.) KOP. et ISOV., in Koponen, Isoviita & Lammes, Flora Fennica 6:

64 (1977).

Specim. exam.: Yajiang, ca. 3120 m alt., on rock, YT-860514-10b (Det. H. DEGUCHI), YT-860514-11c (Det. H. DEGUCHI).

Distr.: Europe, Siberia, Himalaya, China, Japan, and North America.

This species was recorded from Tibet by CAO and VITT (1986).

Bryaceae

Bryum argenteum HEDW., Spec. Musc. 181 (1801).

Specim. exam.: Zongba (Bomi-Ranwu), ca. 3410 m alt., on rock, YT-860504-1.

Distr.: Cosmopolitan.

Bryum pallens SW., Monthly Rev. London 34 : 538 (1801).

Specim. exam.: Yajiang, ca. 3120 m alt., on rock, YT-860514-11b (Det. A. NOGUCHI).

Distr.: Nearly Circumboreal.

Rhodobryum giganteum (SCHWAEGR.) PARIS, Ind. Bryol. 1116 (1898).

Specim. exam.: Bomi, Yigong, ca. 2380 m alt., in shrubbery on soil, YT-860425-1a.

Distr.: South Africa, Madagascar, South to Southeastern Asia, Japan, and Pacific islands.

Rhodobryum spathulatum (HORNSCH.) PÓCS, Acta Bot. Acad. Sci. Hung. 25 : 257 (1979).

Specim. exam.: Bomi, Yigong, ca. 2370 m alt., on soil, YT-860428-6b (Ver. A. NOGUCHI).

Distr.: China.

Mniaceae

Plagiomnium rostratum (SCHRAD.) KOP., Ann. Bot. Fenn. 5 : 147 (1968).

Specim. exam.: Yajiang, ca. 3120 m alt., on rock, YT-860514-10e (Det. A. NOGUCHI).

Distr.: Himalaya, China, and Formosa.

Bartramiaceae

Bartramia halleriana HEDW., Spec. Musc. 164 (1801).

Specim. exam.: Bomi, Yigong, ca. 2390 m alt., on rock, YT-860428-3a.

Distr.: Widely distributed in both hemispheres.

Philonotis falcata (HOOK.) MITT., Journ. Linn. Soc. Bot. Suppl. 1 : 62 (1859).

Specim. exam.: Lang, Miling, ca. 3070 m alt., on wet soil, YT-860420-10 (Ver. A. NOGUCHI).

Distr.: Africa, India, Nepal, Bhutan, Burma,

Vietnam, China, Formosa, Korea, Japan, Philippines, and Hawaii.

Climaciaceae

Climacium dendroides (HEDW.) WEB. et MOHR, Naturh. Reise Schweden 96 (1804).

Specim. exam.: Lhozhag, Shengge, ca. 3900 m alt., on soil, YT-860402-4a.

Distr.: Europe, Siberia, Nepal, China, Korea, Japan, North America, and New Zealand.

Cryphaeaceae

Forsstroemia sp.

Specim. exam.: Bomi, Yigong, ca. 2340 m alt., on soil, YT-860425-2a.

Leucodontaceae

Leucodon strictus (HARV.) JAEG., Ber. S. Gall. Naturw. Ges. 1875-76 : 216 (1877).

Specim. exam.: Bomi, Yigong, ca. 2390 m alt., on fallen log, YT-860428-12b (Det. H. AKIYAMA); ca. 2430 m alt., on fallen log, YT-860428-13 (Det. H. AKIYAMA); Bomi, Bomi, ca. 2840 m alt., on tree trunk of *Quercus*, YT-860502-3 (Det. H. AKIYAMA).

Distr.: West Nepal, China, and Japan.

Trachypodaceae

Trachypus humilis LINDB., Act. Soc. Sc. Fenn. 10 : 230 (1872).

Specim. exam.: Bomi, Yigong, ca. 2390 m alt., on rock, YT-860428-3d.

Distr.: Nepal, China, Formosa, Korea, Japan, Tropical Asia, Pacific islands, and Australia.

Meteorieraceae

Meteorium buchananii (BRID.) BROTH. subsp. *buchananii* in Engler u. Prantl, Nat. Pflanz. 1(3) : 818 (1906).

Specim. exam.: Bomi, Yigong, ca. 2390 m alt., on fallen log, YT-860428-12a; Bomi, Bomi, ca. 2840 m alt., on rock, YT-860502-2a (Det. A. NOGUCHI).

Distr.: India, Himalaya, Thailand, and China.

Neckeraceae

**Neckera brachyclada* BESCH., Ann. Sc. Nat. Bot., ser. 7, 15 : 75 (1892).

Specim. exam.: Bomi, Yigong, ca. 2390 m alt.,

on rock, YT-860428-3b (Det. A. NOGUCHI).

Distr. : Himalaya.

Neckeropsis calcicola NOG., Journ. Hattori Bot. Lab. 16 : 124 (1956).

Specim. exam. : Xingon-Tianquan, ca. 1270 m alt., on rock, YT-860527-2a, YT-860527-2b.

Distr. : China and Japan.

Thuidiaceae

Abietinella abietina (HEDW.) FLEISCH., Musci Fl. Buitenzorg 4 : 1497 (1923).

Specim. exam. : Lhozhag, Lakang, ca. 3260 m alt., on soil, YT-860322-3b, ca. 3280 m alt., on soil, YT-860322-11a, YT-860322-11b.

Distr. : Widely distributed in Northern Hemisphere.

Actinotuidium hookeri (MITT.) BROTH., in Engler u. Prantl, Nat. Pflanz. 1(3) : 1020 (1908).

Specim. exam. : Lhozhag, Lakang, ca. 3880 m alt., on soil, YT-860324-2b, ca. 3430 m alt., on soil, YT-860324-5a, YT-860324-5b, YT-860324-5c.

Distr. : Himalaya, Assam, Burma, China, Buthan, and Formosa.

Herpetineuron toccoco (SULL. et LESQ.) CARD., Beih. Bot. Centralbl. 19(2) : 127 (1905).

Specim. exam. : Bomi, Yigong, ca. 2340 m alt., on rock, YT-860425-2b.

Distr. : Africa, Asia, and North and South America.

Thuidium cymbifolium (DOZY et MOLK.) DOZY et MOLK., Bryol. Jav. 2 : 115 (1865).

Specim. exam. : Lhozhag, Shengge, ca. 3900 m alt., on soil, YT-860402-4b (Det. A. NOGUCHI); Yajiang, ca. 3120 m alt., on rock, YT-860514-11d; Bomi, Bomi, ca. 2840 m alt., on rock, YT-860502-1c; Yajiang, ca. 3120 m alt., on rock, YT-860514-13a (Det. A. NOGUCHI).

Distr. : Widely distributed in Asia.

Brachytheciaceae

**Brachythecium glareosum* (SPR.) B. S. G., Bryol. Eur. 6 : 23 (1853).

Specim. exam. : Yigong, ca. 2370 m alt., on soil, YT-860428-6a (Det. N. TAKAKI).

Distr. : Caucasus, Siberia to Northern Hemisphere.

Brachythecium plumosum (HEDW.) B. S. G., Bryol. Eur. 6 : 8 (1853).

Specim. exam. : Bomi, Yigong, ca. 2340 m alt.,

on soil, YT-860425-2c (Det. A. NOGUCHI).

Distr. : Widely distributed in Northern Hemisphere, and New Zealand.

Camptothecium auriculatum (JAEGER) BROTH., Nat. Pfl. ed. 2, 11 : 353 (1925).

Specim. exam. : Bomi, Bomi, ca. 2840 m alt., on rock, YT-860502-1b (Ver. A. NOGUCHI), YT-860502-2b.

Distr. : China, Formosa, Japan, and Sakhalin. *Eurhynchium laxirete* BROTH. in Card., Bull. Soc. Bot. Geneve ser. 2, 4 : 380 (1912).

Specim. exam. : Bomi, Yigong, ca. 2380 m alt., in shrubbery on soil, YT-860425-1b (Det. A. NOGUCHI).

Distr. : China, Korea, and Japan.

Entodontaceae

Entodon concinnus (DE NOT.) PARIS, Ind. Bryol. ed. 2, 2 : 130 (1904).

Specim. exam. : Bomi, Bomi, ca. 2840 m alt., on rock, YT-860502-1a (Ver. A. NOGUCHI), YT-860502-2c; Yajiang, ca. 3120 m alt., on rock, YT-860514-11a.

Distr. : Europe, Asia, and North America.

Sematophyllaceae

Brotherella falcatula Broth., Symb. Sin. 4 : 119 (1929).

Specim. exam. : Lhozhag, Lakang, ca. 3380 m alt., on rotten log, YT-860325-3a (Det. A. NOGUCHI), YT-860325-3b.

Distr. : China.

Hypnaceae

**Callicladium haldanianum* (GREV.) CRUM, Bryologist 74 : 167 (1971).

Specim. exam. : Yajiang, ca. 3120 m alt., on rock, YT-860514-12 (Ver. A. NOGUCHI).

Distr. : Europe, Siberia, Kashmir, East China, Korea, Japan, Kuril Islands, and North America.

**Hypnum macrogynum* BESCH., Ann. Sc. Nat. Bot., ser. 7, 15 : 91 (1892).

Specim. exam. : Lang, Miling, ca. 3060 m alt., on rock, YT-860420-8 (Det. H. ANDO).

Distr. : Himalaya to Southern China, and Formosa.

Rhytidiadelphus triquetrus (HEDW.) WARNST., Krypt. Fl. Brandenburg 920 : 996 (1906).

Specim. exam. : Lhozhag, Lakang, ca. 3880 m

alt., on soil, YT-860324-2a.

Distr.: Widely distributed in Northern Hemisphere.

Rhytidium rugosum (HEDW.) KINDB., Bih. K. Svensk. Vet. Ak. Handl. 7(9): 15 (1883).

Specim. exam.: Lhozhag, Lakang, ca. 3260 m alt., on soil, YT-860322-3a, YT-860322-4.

Distr.: Europe, Morokko, Caucasus, Siberia, Himalaya, China, Formosa, Korea, Japan, and North America.

HEPATICAE

Herbertaceae

Herbertus fragilis (STEPH.) HERZ., Ann. Bryol. 12: 80 (1939).

Specim. exam.: Lhozhag, Lakang, ca. 3390 m alt., on soil, YT-860325-6h (Det. N. KITAGAWA).

Distr.: Ceylon, Himalaya, Sikkim, and China.

Pseudolepicoleaceae

Blepharostoma trichophyllum (L.) DUM., Rec. d' Obs. Jung. 18 (1835).

Specim. exam.: Lhozhag, Lakang, ca. 3390 m alt., on soil, YT-860325-6d.

Distr.: Europe, Himalaya, China, Formosa, Korea, Japan, Sakhalin, and North America.

Lepidoziaceae

Bazzania bidentula (STEPH.) STEPH. ex YASUDA, Syokubuthgaku-Kakuron, 711 (1911).

Specim. exam.: Lhozhag, Lakang, ca. 3390 m alt., on soil, YT-860325-6b (Det. N. KITAGAWA).

Distr.: China, Korea, and Japan.

**Lepidozia stahlia* STEPH., Spec. Hepat. 3: 616 (1909).

Specim. exam.: Lhozhag, Lakang, ca. 3390 m alt., on soil, YT-860325-6g.

Distr.: Himalaya, Java, and Papua New Guinea.

Calypogeiaceae

Calypogeia sp.

Specim. exam.: Lhozhag, Lakang, ca. 3390 m alt., on soil, YT-860325-6e.

Lophoziaceae

Lophozia sp.

Specim. exam.: Lhozhag, Shengge, ca. 3560 m alt., on soil, YT-860403-1b.

Geocalycaceae

**Heteroscyphus argutus* (NEES) SCHIFFN., Oesterr. Bot. Zeitschr. 60: 172 (1910).

Specim. exam.: Bomi, Yigong, ca. 2380 m alt., in shrubbery on soil, YT-860425-1c (a form with subentire leaves, Det. N. KITAGAWA).

Distr.: Southeastern Asia, New Zealand, and Australia.

Plagiochilaceae

Plagiochila sp.

Specim. exam.: Bomi, Yigong ca. 2390 m alt., on rock, YT-860428-3c; Yajiang, ca. 3120 m alt., on rock, YT-860514-13c.

**Xenochila integrifolia* (MITT.) INOUE, Bull. Nat. Sci. Mus. 6(4): 373 (1963).

Specim. exam.: Bomi, Yajidng, ca. 2380 m alt., in shrubbery on soil, YT-860425-1d.

Distr.: Himalaya, Formosa, Korea, and Japan.

Frullaniaceae

Frullania davurica HAMPE, in Gott., Lindenb. & Nees, Synop. Hepat. 422(1845).

Specim. exam.: Yajiang, ca. 3120 m alt., on rock, YT-860514-13b (with **Ptychanthus chinensis* STEPH., Det. N. KITAGAWA).

Distr.: Southeastern Siberia, China, Formosa, Korea, and Japan.

Porellaceae

Porella obtusata (TAYL.) TREV. fo. *macroloba* (STEPH.) HATT., Journ. Hattori Bot. Lab. 44: 106 (1978).

Specim. exam.: Lhozhag, Lakang, ca. 3390 m alt., on soil, YT-860325-6f.

Distr.: Northwestern India, China, Formosa, and Japan.

Lejeuneaceae

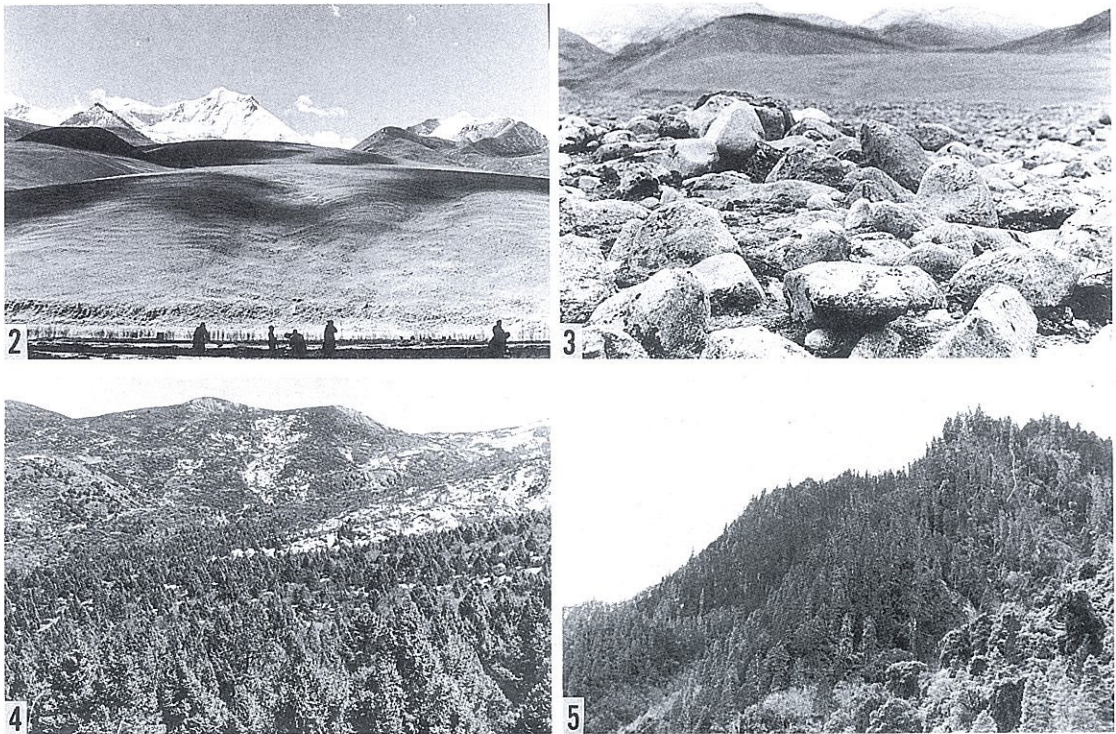
**Lejeunea discreta* LINDENB., in Gott., Lindenb. & Nees, Synop. Hepat. 361 (1845).

Specim. exam.: Yajiang, ca. 3120 m alt., on rock, YT-860514-10d (Det. N. KITAGAWA).

Distr.: India, Ceylon, Himalaya, Japan, Sumatra, Java, Borneo, Molucca, Philippines, New Guinea, and New Caledonia.

Metzgeriaceae

Apometzgeria pubescens (SCHFRANK) KUWAH.,



Figs. 2-5. 2: A view of Mt. Kulakangri (Mengda). 3: The family Grimmiaceae growing on the rocks (Base Camp, ca. 4400 m alt.). 4: The *Picea likiangensis* var. *linzhiensis* forest in Shengge (ca. 3900 m alt.). 5: The *Pinus armandi* forest in Yigong (ca. 2300 m alt.).

Rev. Bryol. Lichénol. 34: 212 (1966).

Specim. exam.: Lhozhag, Lakang, ca. 3390 m alt., on soil, YT-860325-6c.

Distr.: Europe, Caucasus, India, Himalaya, Temperate regions of Asia, Alutians, Alaska, North America, and Southern South America.

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摘 要

1986年3月から5月にかけて、神戸大学西藏学術登山隊によって中国の西藏と四川を結ぶ川蔵公路沿いの蘚苔類が採集された。その中で、Li *et al.* (1985) に報告されていない13種類(8種の蘚類と5種の苔類)を新たに記録した。それらは蘚類の *Brachythecium glareosum*, *Callicladium haldanianum*, *Grimmia affinis*, *G. khasiana*, *Hypnum macrogynum*, *Neckera brachyclada*, *Racomitrium javanicum*, *Schistidium strictum* と苔類の *Heteroscyphus argutus*, *Lejeunea discreta*, *Lepidozia stahlia*, *Ptychanthus chinensis*, *Xenochila integrifolia* であった。

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第7集(本誌35巻1号に紹介)と同様100種につき、水平分布図・垂直分布図ならびに引用した標本産地が記されている。なお、巻末に第1~7集の追補と新潟県で新しく記録された種類の記録の他、所々に赤崎山の風光、フユイチゴの分布の北限、グンバイヒルガオの漂着など多くの雑録が挿入されている。(里見信生)