

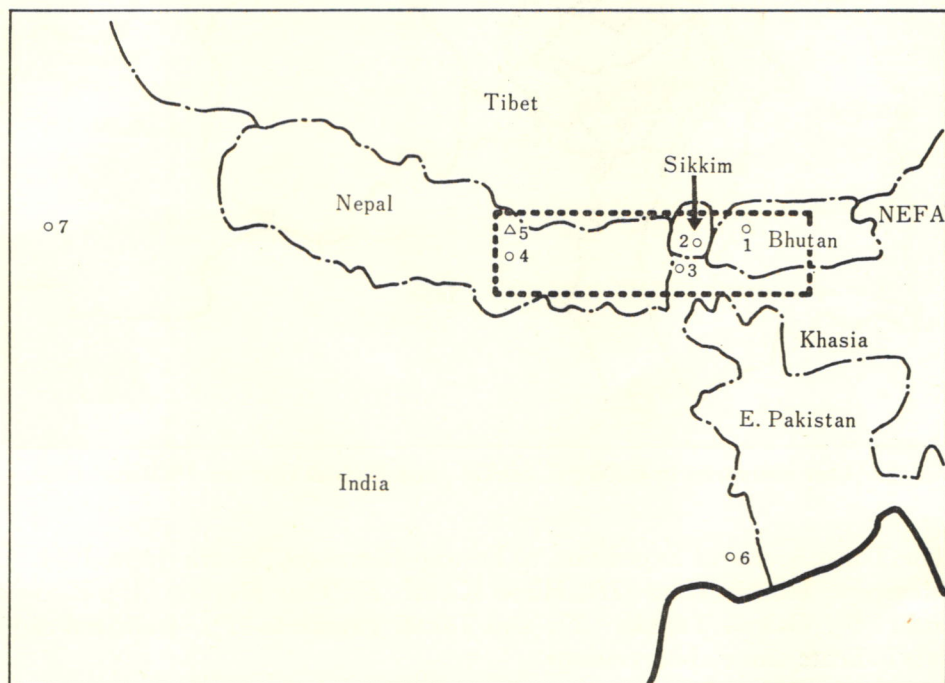
MEMBERS AND ITINERARIES

BOTANICAL EXPEDITIONS TO EASTERN HIMALAYA 1967 AND 1969

Members of the March–June 1967 Expedition to Bhutan, Darjeeling and Central Nepal.

| | |
|------------------|---------------------|
| Hiroshi Hara | University of Tokyo |
| Takasi Yamazaki | University of Tokyo |
| Hiroo Kanai | University of Tokyo |
| Hiroyoshi Ohashi | University of Tokyo |
| Osamu Tanaka | University of Tokyo |
| Gen Murata | Kyoto University |

Members of the May–July 1969 Expedition to Central Nepal, Sikkim, Darjeeling and Singalila Range.



- | | |
|---------------|---------------|
| 1. Thimphu | 5. Gosainkund |
| 2. Gangtok | 6. Calcutta |
| 3. Darjeeling | 7. Delhi |
| 4. Kathmandu | |

Fig. 1. Sketch map showing our investigated area and its neighboring regions.

Hiroshi Hara University of Tokyo
 Sachiko Kurosawa University of Tokyo
 Hiroyoshi Ohashi University of Tokyo

Information on the members and itineraries of Botanical Expeditions between 1960 and 1964 is given in the first volume of "The Flora of Eastern Himalaya" pp. 1-12 (1966).

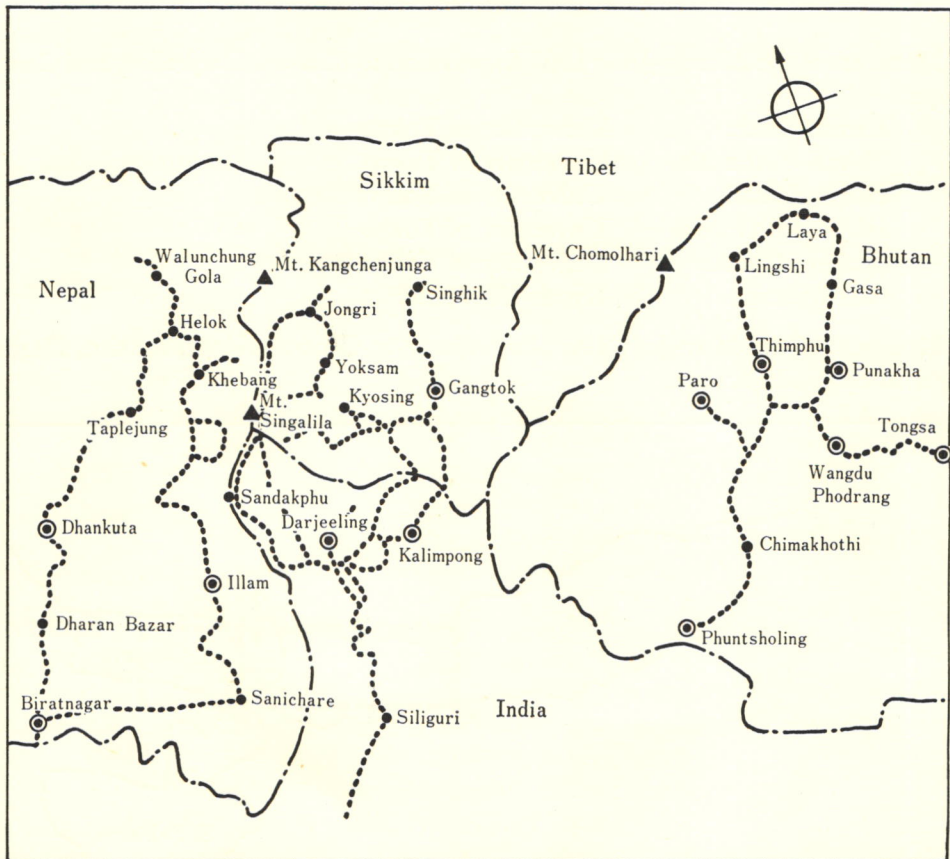


Fig. 2. Our itineraries in E. Nepal, Sikkim, and Bhutan between 1960 and 1969.

The Third Botanical Expedition to Eastern Himalaya, March-June, 1967.

Members: Hiroshi Hara (*H*), Hiroo Kanai (*K*), Gen Murata (*M*), Hiroyoshi Ohashi (*O*), Osamu Tanaka (*T*), and Takasi Yamazaki (*Y*). (Italicized capital letters indicate name abbreviations).

| | | | |
|----------|------|----------|---|
| March 21 | 1967 | <i>H</i> | Calcutta→Darjeeling (2150 m) |
| 24 | | | Darjeeling⇒Senchal (2450 m)⇒Ghum (2300 m) |
| 25 | | | Darjeeling (Birch Hill 2100 m) |
| 26 | | | Darjeeling→Calcutta |

- April 2 1967
HKMOTY Calcutta→Hashimara→Phuntsholing (300 m)
 3 Phuntsholing (300⇌900 m)
 4 Phuntsholing (300 m)→Putli Bhir (2200 m)→Pasikha (1900 m)→
 Chhukha Dzong→Thargyal Mathur Bridge (1700 m)→Chima-
 khoti (2350 m)
 5 Chimakhoti (2350 m)→Bunakha (2200 m)→Tanalum Bridge
 (2200 m)→Kypacha→Nimchling (2350 m)→Thimphu (2450 m)
 6 Thimphu (2450 m)
 7 *HMTY* Thimphu→Nimchling *KO* Thimphu (2450⇌2800 m)
 (2350 m)→Paro (2500 m)
 8 Paro (2500 m)→Thimphu
 (2450 m)
 9 *HKMOTY* Thimphu (2450 m)→Sintoka Dzong→Dochu La (3200 m)→
 Yuwak (1600 m)→Wangdu Phodrang (1450 m)
 10 Wangdu Phodrang (1450 m)→Water Fall (1500 m)→Nyatoka
 (1500 m)→Kyebaka (1600 m)→Samtengang (2100 m)
 11 Samtengang (2100 m)→Sena Thang (2600 m)→Tsarza La
 (2800 m)→Ratsoo (2000 m)→Ritang (2600 m)
 12 *KMOTY* Ritang (2600 m) *H* Ritang (2600 m)→Pele La
 (3400 m)→Chendebe (2500 m)
 13 Ritang (2600 m)→Pele La Chendebe (2500 m)→
 (3400 m)→Rukubi (2800 m) Tashiling (2300 m)
 14 Rukubi (2800 m)→Chendebe Tashiling (2300 m)→Tongsa
 (2500 m)→Charikhachor Bridge (1900 m)→Tongsa
 (2450 m)→Neylong (2400 m) (2200 m)
 15 Neylong (2400 m)→Tashiling Tongsa (2200 m)→Tashiling
 (2300 m) (2300 m)
 16 Tashiling (2300 m)→Tongsa Tashiling (2300 m)→
 Bridge (1900 m)→Tongsa Chendebe (2500 m)→Rukubi
 (2200 m) (2800 m)
 17 Tongsa *KY* Tongsa⇌Tratang Rukubi (2800)→Pele La
 (2200 m) (2700 m)⇌Uto La (3400 m)→Ritang (2600 m)
 Road (2950 m) →Ratsoo (2000 m)
 18 *MO* Tongsa⇌Tratang Ratsoo (2000 m)→Tsarza La
 (2700 m) (2800 m)→Samtengang
 (2100 m)→Wangdu
 Phodrang (1450 m)
 19 *KMOTY* Tongsa (2200 m)→Tongsa Wangdu Phodrang (1250 m)
 Bridge (1900 m)→Tashiling →Dochu La (3200 m)→
 (2300 m) Thimphu (2450 m)
 20 Tashiling (2300)→Neylong Thimphu (2450 m)
 (2400 m)→Charikhachor
 (2450 m)
 21 Charikhachor (2450)→Chendebe Thimphu (2450 m)→Chima-
 (2500 m)→Rukubi (2800 m) khoti (2350 m)
 →Longtepang (3150 m)
 22 Longtepang (3150 m)→Pele Chimakhoti (2350 m)→

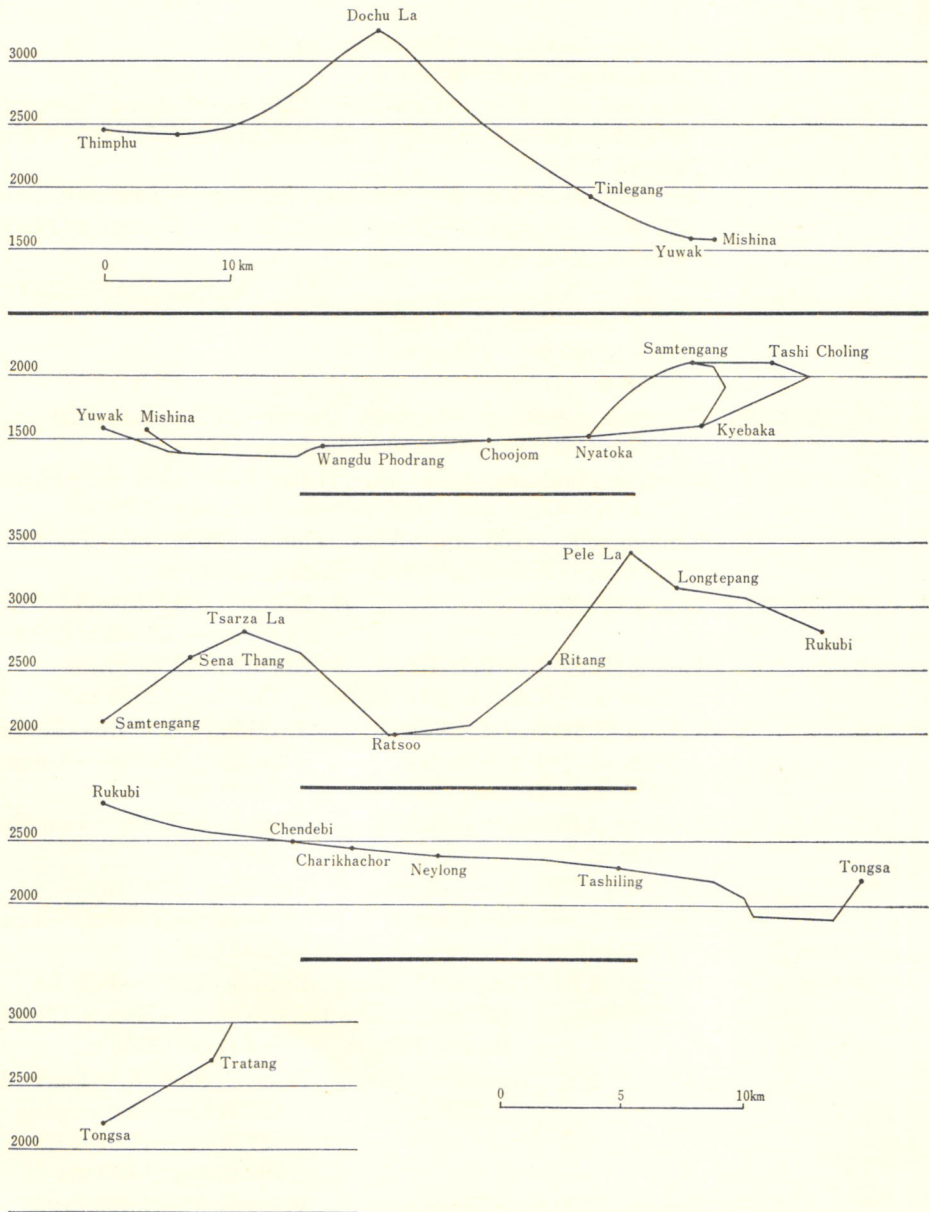


Fig. 3. Vertical route sections of the first trip of Bhutan in April of 1967.

| | | |
|---------------|------------------------------------|---|
| | La (3400 m)→Ritang (2600 m) | Phuntsholing (300 m) |
| April 23 1967 | Ritang (2600 m)→Ratsoo (2000 m) | H Phuntsholing (300 m)→ Siliguri (200 m)→ Darjeeling (2150 m) |
| 24 | Ratsoo (2000 m) | Darjeeling (2150 m) |

| | | | | | |
|-------|----|------|---|----------|--|
| April | 25 | 1967 | Ratsoo (2000 m)→Tsarza La (2800 m)→Sena Thang (2600 m)→Samtengang (2100 m) | <i>H</i> | Darjeeling (2150 m)→Rangpo (350 m)→Gangtok (Orchid Sanctuary 1600 m) |
| | 26 | | <i>MOY</i> Samtengang (2100 m)→Tashi Choling (2100 m)→Kyebaka (1600 m)→Choojom (1500 m) | | Gangtok (Rumtek, Saramsa 1050 m) |
| | | | <i>KT</i> Samtengang (2100 m)→Kyebaka (1600 m)→Choojom (1500 m) | | |
| | 27 | | <i>KMOTY</i> Choojom (1500 m)→Wangdu Phodrang (1450 m)→Mishina (1500 m) | | Gangtok (1650 m)→Darjeeling (2150 m) |
| | 28 | | Mishina (1500 m)→Dochu La (3200 m)→Thimphu (2450 m) | | Darjeeling |
| | 29 | | Thimphu | | Darjeeling (Observatory Hill 2180 m)⇒Ghum (2300 m) ⇒Tiger Hill (2500 m) |
| | 30 | | | | Darjeeling (2150 m) |
| May | 1 | 1967 | Thimphu | | Darjeeling (Ghose Nursery) |
| | 2 | | | | Darjeeling→Bagdogra→Calcutta |
| | 3 | | Thimphu (2450 m)→Dochu La (3200 m)→Tinlegang (1950 m) | | |
| | 4 | | Tinlegang (1950 m) | | |
| | 5 | | Tinlegang (1950 m)→Gon Chungnang (1800 m) | | |
| | 6 | | Gon Chungnang (1800 m)→Punakha (1400 m) | | |
| | 7 | | Punakha (1400 m)→Bhotokha (1450 m) | | |
| | 8 | | Bhotokha (1450 m)→Rinchu (1500 m) | | |
| | 9 | | Rinchu (1500 m)→Mishichen (1600 m) | | |
| | 10 | | Mishichen (1600 m)→Khosa (1800 m) | | |
| | 11 | | Khosa (1800 m)→Tamji (2200 m) | | |
| | 12 | | Tamji (2200 m) | | |
| | 13 | | Tamji (2200 m)→Zami Bridge (2250 m)→Gasa (2800 m) | | |
| | 14 | | Gasa (2800 m)→Pari La (3750 m)→Chamsa (3700 m) | | |
| | 15 | | Chamsa (3700 m)→Kohina (3200 m)→Yabu Thang (3400 m) | | |
| | 16 | | Yabu Thang (3400 m)→Tashi Ha (3400 m)→Laya (3850 m) | | |
| | 17 | | Laya (3850 m) | | |
| | 18 | | Laya (3850 m)→Laum Thang (4100 m) | | |
| | 19 | | Laum Thang (4100 m)→Singke La (5000 m)→Chawa Gassar (4200 m) | | |
| | 20 | | Chawa Gassar (4200 m)→Tharizaj Thang (3950 m)→Jari La (4750 m)→Seanchu Passa (3900 m) | | |
| | 21 | | Seanchu Passa (3900 m)→Gokhu La (4400 m)→Chabecha (3800 m) | | |
| | 22 | | Chabecha (3800 m)→Goy (3850 m)→Lingshi (4100 m) | | |
| | 23 | | Lingshi (4100 m)→Yale La (4800 m)→Shodu (4000 m) | | |
| | 24 | | Shodu (4000 m)→Barshong (3700 m) | | |
| | 25 | | Barshong (3700 m)→Nala (3300 m) | | |

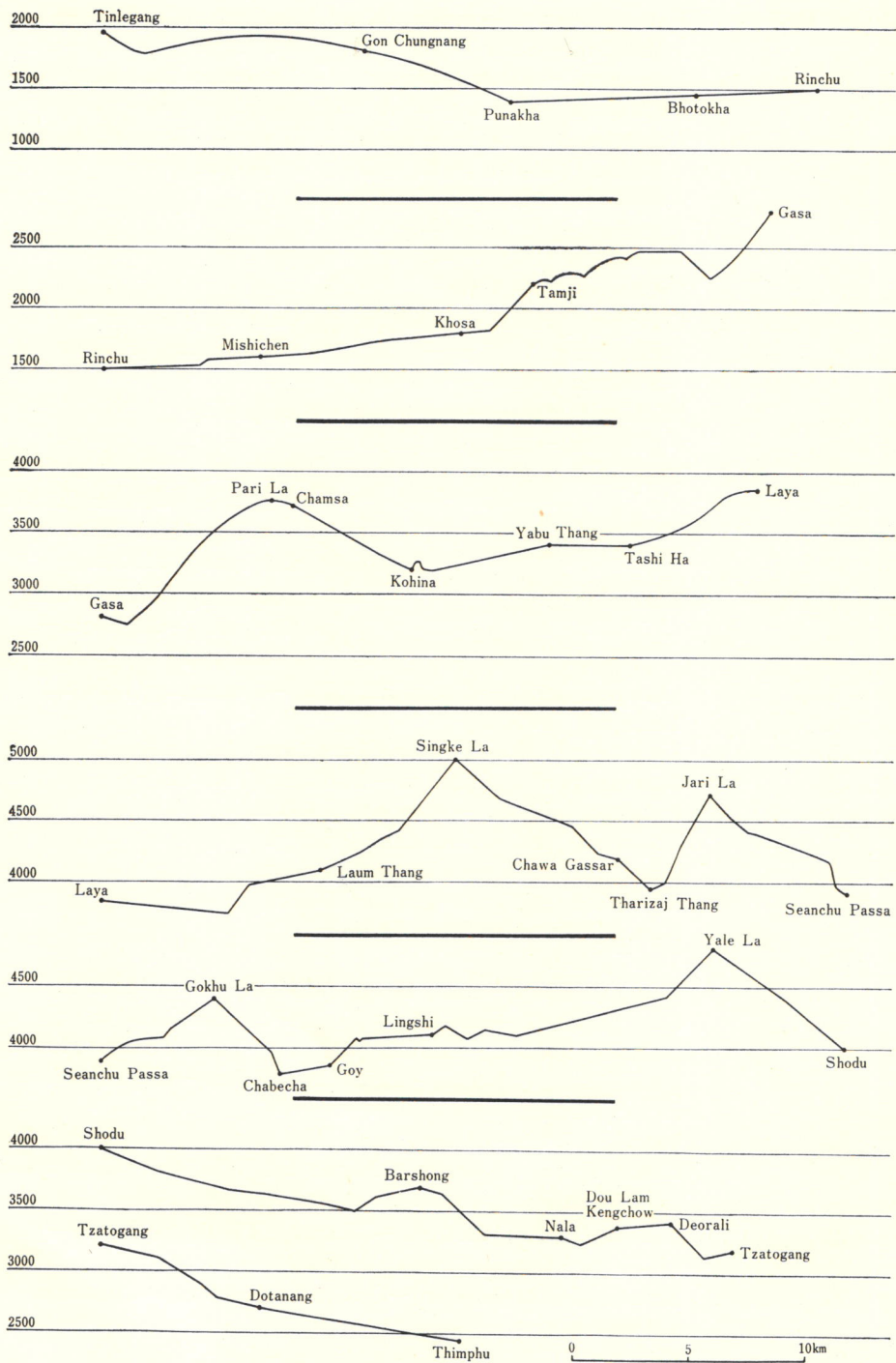


Fig. 4. Vertical route sections of the second trip of Bhutan in May of 1967.

| | | | |
|------|----|------|--|
| May | 26 | 1967 | Nala (3300 m)→Dou Lam Kengchow (3400 m)→Tzatogang (3200 m) |
| | 27 | | Tzatogang (3200 m)→Dotanang (2700 m) |
| | 28 | | Dotanang (2700 m)→Tabab (2550 m)→Thimphu (2450 m) |
| | 29 | | Thimphu (2450 m) |
| | 30 | | KMY Thimphu (2450 m)⇌Dochu La (3200 m) |
| | 31 | | Thimphu |
| June | 1 | | Thimphu (2450 m)→Chimakhothi (2350 m) |
| | 2 | | Chimakhothi (2350 m)→Phuntsholing (300 m) |
| | 3 | | Phuntsholing (300 m) |
| | 4 | | Phuntsholing |
| | 5 | | MOTY Phuntsholing (300 m)→ K Phuntsholing→Hashimara→ Siliguri (200 m)→Darjeeling Calcutta |
| | 6 | | Darjeeling (2150 m) |
| | 7 | | Darjeeling |
| | 8 | | Darjeeling MOY Darjeeling⇌Ghum (2300 m) ⇌Tista Bazar (300 m)⇌Kalimpong (1300 m) |
| | 9 | | Darjeeling |
| | 10 | | Darjeeling→Calcutta |
| | 14 | | KMOTY Calcutta→Kathmandu (1400 m) |
| | 15 | | Kathmandu (1400 m) KMT Swayambhu Nath (1500 m) MTY Patan (1400 m) |
| | 16 | | KMY Balaju (1300 m) MOTY Bhudh Nilkantha (1400 m) |
| | 17 | | Chobar (1200 m) |
| | 18 | | Kathmandu→Pokhara (900 m) (Pokhara Lake 900 m) |
| | 19 | | Pokhara→Kathmandu |
| | 20 | | Kathmandu (1400 m)⇌Kakani (2200 m) MTY Bodh Nath (1300 m) |
| | 21 | | Kathmandu KMTY Gokarna (1400 m) |
| | 23 | | KMOY Kathmandu⇌Godavari (1600 m)⇌ T Kathmandu→ Phulchauki (2500 m) Calcutta |
| | 24 | | Kathmandu→Nagarkot (2000 m) |
| | 25 | | Nagarkot (2000 m)→Badgaon→Kathmandu |
| | 26 | | Kathmandu⇌Godavari (1600 m)⇌Phulchauki (2700 m) |
| | 27 | | Kathmandu→Calcutta |

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The Fourth Botanical Expedition to Eastern Himalaya, May–July, 1969.
Members: Hiroshi Hara (*H*), Sachiko Kurosawa (*K*), and Hiroyoshi Ohashi (*O*).

| | | | |
|-----|----|------|---------------------------------------|
| May | 26 | 1969 | HKO Kathmandu (1400 m) |
| | 27 | | Kathmandu |
| | 28 | | Kathmandu (Godavari Botanical Garden) |
| | 29 | | Godavari→Phulchauki (2100 m⇌2800 m) |
| | 30 | | Kathmandu |
| | 31 | | Kathmandu |

| | | | | |
|------|----|------|--|--------------------------|
| June | 1 | 1969 | Trisuli→Bainse (800 m)→Sim Chautara (Laharepoa 970 m) | |
| | 2 | | Sim Chautara (970 m)→Ramche (1800 m)→Thare (2200 m) | |
| | 3 | | Thare (2200 m)→Dhunche (2100 m)→Trisula Khola (2065 m) | |
| | 4 | | Trisula Khola (2065 m)⇌Gosainkund (3000 m) | |
| | 5 | | Trisula Khola (2065 m)→Dhunche (2100 m)→Thare (2200 m) | |
| | 6 | | Thare (2200 m)→Grang (1900 m)→Ramche (1800 m)→Sim Chautara (970 m) | |
| | 7 | | Sim Chautara (970 m)→Bainse (800 m)→Kathmandu | |
| | 8 | | Kathmandu (1400 m) | |
| | 9 | | Kathmandu | |
| | 10 | | Godavari→Phulchauki (2600 m⇌2800 m) | |
| | 11 | | Kathmandu (1400 m) | |
| | 12 | | Kathmandu (Swayambhu Nath, Patan) | |
| | 13 | | Kathmandu | |
| | 14 | | Kathmandu | |
| | | | O Kathmandu→Shioupuri (2700 m) | H Kathmandu→ Calcutta |
| | 15 | | Shioupuri (2700 m)→Kathmandu | |
| | 16 | KO | Kathmandu | |
| | 17 | | Kathmandu | |
| | 18 | | Kathmandu→Calcutta | |
| | 22 | HKO | Calcutta→Darjeeling | |
| | 23 | | Darjeeling (2150 m) | |
| | 24 | | Darjeeling (Birch Hill 2100 m, Lloyd Botanical Garden) | |
| | 25 | | Darjeeling (Observatory Hill, Ghose Nursery) | |
| | 26 | | Darjeeling→Kalimpong→Pakhyon (1700 m)→Gangtok (1700 m) | |
| | 27 | | Gangtok (Orchid Sanctuary 1600 m, Rumtek, Martam 1800 m) | |
| | 28 | | Gangtok→Namli (900 m)→Middle Camp (800 m)→Papung (500 m)→Temi (1620 m) | |
| | 29 | | Temi→Damthang (2150 m)⇌Tendong (2900 m)→Temi→Gangtok | |
| | 30 | | Gangtok→Rangrang (900 m)→Singhik (1500 m) | |
| July | 1 | | Singhik (1500 m)→Phyang La (1900 m)→Gangtok | |
| | 2 | | Gangtok→Kalimpong→Darjeeling | |
| | 3 | | Darjeeling (2150 m) | |
| | 4 | | Darjeeling | |
| | 5 | | Darjeeling (East Birch Hill Road 2100 m) | |
| | 6 | | Darjeeling (Senchal 2400 m→Ghum 2300 m) | |
| | 7 | | Darjeeling (Peshok Road 2250 m→Ghum 2300 m) | |
| | 8 | | Darjeeling | |
| | 9 | | Darjeeling (Tenzin Norgey Road 2150 m) | |
| | 10 | | Darjeeling | |
| | 11 | | Mane Bhanjang (2200 m)→Chitrey (2600 m)→Meghma (2850 m)→Tonglu (3150 m) | |
| | 12 | | Tonglu (3100 m⇌2800 m) | |
| | 13 | | Tonglu (3100 m)→Garibas (2800 m)→Kalapokhari (3100 m)→Sandakphu (3970 m) | |
| | 14 | | Sandakphu (3970 m⇌3800 m) | |
| | 15 | | Sandakphu (3970 m⇌3800 m) | |
| | 16 | | Sandakphu→Sabargan (3300 m)→Phalut (3930 m) | |

| | | | |
|------|----|------|---|
| July | 17 | 1969 | Phalut (3930 m) ⇌ Mt. Singalila (3980 m) |
| | 18 | | Phalut (3930 m) ⇌ 3800 m) |
| | 19 | | Phalut (3930 m) → Sabargan (3300 m) → Sandakphu (3970 m) |
| | 20 | | Sandakphu (3970 m) ⇌ 3800 m) |
| | 21 | | Sandakphu (3970 m) → Kalapokhari (3100 m) → Garibas (2800 m) → Tonglu (3150 m) |
| | 22 | | Tonglu (3150 m) → Chitrey (2600 m) → Mane Bhanjang (2200 m) → Darjeeling |
| | 23 | | Darjeeling (2150 m) |
| | 24 | | Darjeeling (East Birch Hill Road 2100 m) |
| | 25 | | Darjeeling |
| | 26 | | Darjeeling (Senchal 2400 m) ⇌ Tiger Hill 2500 m → Ghum 2300 m) |
| | 27 | | Darjeeling |
| | 28 | | Darjeeling |
| | 29 | | Darjeeling (East Birch Hill Road 2100 m) |
| | 30 | | Darjeeling → Bagdogra → Calcutta |