

Report on Field work in the Mid-hills for Flora of Nepal

August – September 2014



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Introduction

The Flora of Nepal is compiling the first comprehensive account of the estimated 6500 species of vascular plants found in Nepal. The Flora of Nepal Project is a collaboration between the Department of Plant Resources (DPR)- Ministry of Forests and Soil Conservation, the Royal Botanic Garden Edinburgh (RBG), the Nepal Academy of Science and Technology (NAST), Tribhuvan University Central Department of Botany (TU) and the Society of Himalayan Botany, Tokyo (SHB).

In Nepal the Gesneriaceae comprises 12 genera with 32 species (Press et al., 2000), and most of them are poorly represented at the herbarium collections at E. For example, nine taxa don't have a single specimen, and 11 taxa are represented by five or fewer specimens. A field trip was conducted in November 2012 to collect the specimens from the Midhills region of Nepal for the revision of the family Gesneriaceae for Flora of Nepal.

Expedition members

Bhaskar Adhikari, RBGE, UK

Marco Kreuzer, University of Reading, UK

Ramesh Basnet, Department of Plant Resources, Kathmandu, Nepal

Expedition Itinerary

24th August 2014: Kathmandu-Hetauda

25th August 2014: Hetauda – Lahan

26th August 2014: Lahan- Hile

27th August 2014: Hile- Basantpur

28th August 2014: Basantpur – Lahan

29th August 2014: Lahan- Hetauda

30th August 2014: Hetauda-Daman

31th August 2014: Around Daman

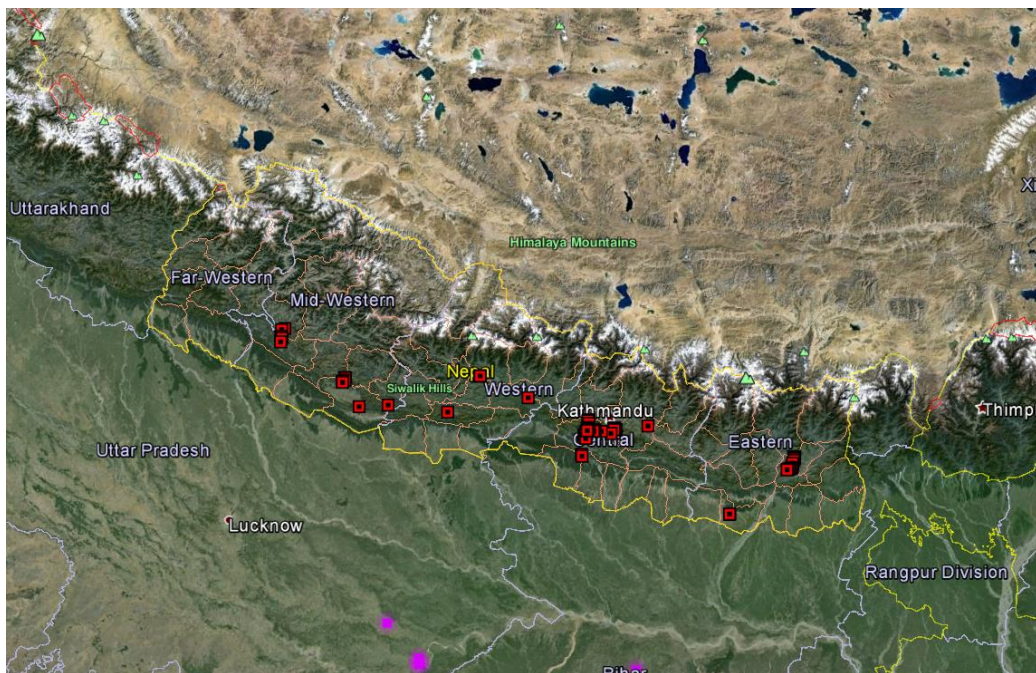
1 September 2014: Daman to Tistung
2 September 2014: Tistung-Pokhara
3 September 2014: Pokhara
4 September 2014: Pokhara-Butwal
5 September 2014: Butwal-Surkhet
6 September 2014: Surkhet-Dailekh
7 September 2014: Dailekh-Tulsipur
8 September 2014: Tulsipur-Salyan Kapurkot
9 September 2014: Salyan Kapurkot – Ghorai
10 September 2014: Ghorai-Butwal
11 September 2014: Butwal
12 September 2014: Butwal-Palpa
13 September 2014: Around Palpa
14 September 2014: Palpa-Kathmandu
16 September 2014: Godavari, Phulchoki, Kathmandu.

Results

A total of 64 specimens (Appendix 1) along with silica gel dried leaf samples for DNA studies were collected, and all the associated data are incorporated into the PADME database at RBGE. All these data are available online in <http://www.floraofnepal.org/page/BotanicalLocator/Specimens> under the expedition title Midhills Nepal 2014.

Four sets of herbarium specimens were collected and deposited at National Herbarium and Plant Laboratories, Nepal (KATH), Tribhuvan University Herbarium (TUCH), Royal Botanic Garden Edinburgh (E) and University of

Tokyo herbarium (TI). The image profile for all species were made in the field and incorporated into the database (Fig.1 image profile for *Didymocarpus pedicellatus*). One species of *Didymocarpus* has been identified as new to science (publication in process), and eight species of *Didymocarpus* were collected out of 12 reported from Nepal.



Map. 1. Expedition collection localities

Bibliography

Press, J. R., Shrestha K. K. and Sutton, D. A. (2000). Annotated Checklist of the Flowering Plants of Nepal. The Natural History Museum, London.

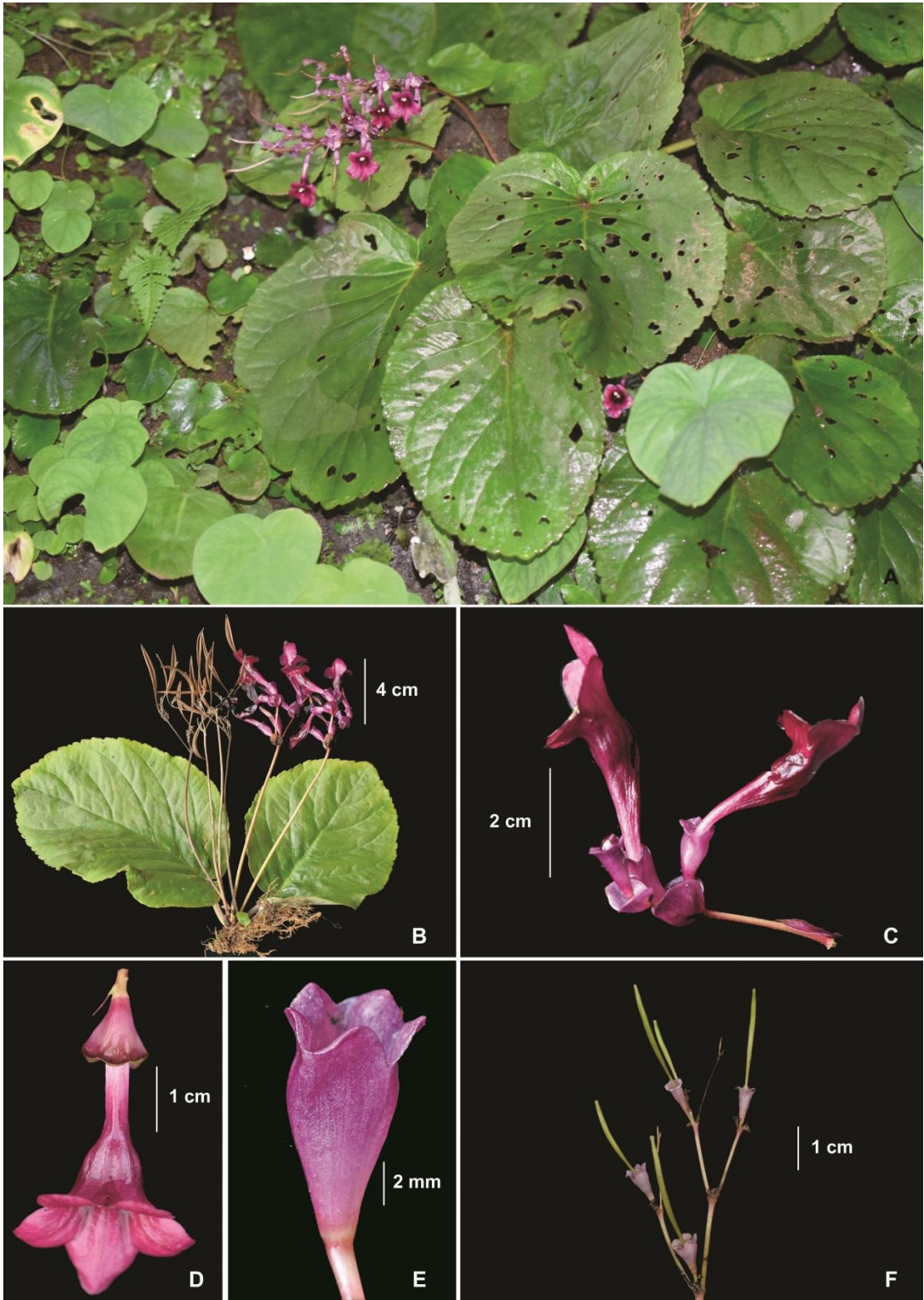


Fig. 1 *Didymocarpus pedicellatus* R. Br. A. Habit. B. A single plant. C. Inflorescence. D. A single flower. E. Calyx. F. Infructescence

Appendix 1. List of collection made during the trip.

Determination	Coll.No.	Collecting Date	Latitude	Longitude	Minor locality details
<i>Didymocarpus primulifolius</i> D. Don	2	24 August 2014	27.58093	85.38757	Half way to top of Phulchoki from Motichaur
<i>Thunbergia fragrans</i> Roxb.	6	25 August 2014	27.58472	85.15567	Between Dakshinkali to Kulekhani Highway
<i>Berberis aristata</i> DC.	7	25 August 2014	27.58472	85.15567	Between Dakshinkali to Kulekhani Highway
<i>Didymocarpus cinereus</i> D. Don	8	25 August 2014	27.57853	85.15578	Between Bhimphedi and Deurali
<i>Henckelia pumila</i> (D. Don) A.Dietr.	9	25 August 2014	27.57385	85.14735	Below Deurali
<i>Didymocarpus pedicellatus</i> R. Br.	10	25 August 2014	27.50643	85.0536	Between Deurali and Bhimphedi
<i>Didymocarpus cinereus</i> D. Don	11	27 August 2014	26.64125	86.62405	Pakhribas VDC, ward no 6, Bokre
<i>Berberis aristata</i> DC.	12	27 August 2014	26.64125	86.62405	Pakhribas VDC, ward no 6, Bokre
<i>Didymocarpus</i> Wall.	13	27 August 2014	26.64125	86.62405	Pakhribas VDC, ward no 6, Bokre
<i>Henckelia pumila</i> (D. Don) A.Dietr.	14	27 August 2014	26.64125	86.62405	Pakhribas VDC, ward no 6, Bokre
<i>Strobilanthes saccata</i> J. R. I. Wood	1	24 August 2014	27.588889	85.380556	Bottom of phulchoko hill
<i>Symplocos ramosissima</i> Wall. ex G. Don	3	24 August 2014	27.575278	85.380556	Bottom of phulchoko hill
<i>Platystemma violoides</i> Wall.	4	24 August 2014	27.573056	85.399167	Bottom of phulchoko hill
<i>Henckelia grandifolia</i> A.Dietr.	5	24 August 2014	27.5775	85.378889	Bottom of phulchoko hill
<i>Thunbergia coccinea</i> Wall. ex D. Don	15	28 August 2014	27.04782	87.33777	Above Hile, towards Basantapur
<i>Henckelia grandifolia</i> A.Dietr.	16	28 August 2014	27.06748	87.3821	Between Hile and Basantanpur
<i>Symplocos</i> Wall. ex G. Don	17	28 August 2014	27.10152	87.38608	Between Hile and Basantanpur

<i>Didymocarpus albicalyx</i> C. B. Clarke	18	28 August 2014	27.13028	87.40373	Near Basantanpur
<i>Symplocos pyrifolia</i> Wall. ex G. Don	19	28 August 2014	27.14758	87.40927	Tute Deurali
<i>Symplocos</i> Wall. ex G. Don	20	29 August 2014	27.16232	87.40608	Deurali
<i>Didymocarpus aromaticus</i> Wall. ex D. Don	21	29 August 2014	27.16755	87.41288	between Deurali to Panchpokhari
<i>Symplocos</i> Wall. ex G. Don	22	30 August 2014	27.3307	84.99737	near 3 number bridge
<i>Didymocarpus pedicellatus</i> R. Br.	23	30 August 2014	27.35108	84.99313	between n.3 bridge and Hetauda
<i>Didymocarpus pedicellatus</i> R. Br.	24	31 August 2014	27.50762	85.05013	Bhainse near the bridge
<i>Thunbergia fragrans</i> Roxb.	25	31 August 2014	27.53932	85.03422	above Baraghumti
<i>Didymocarpus villosus</i> D. Don	27	31 August 2014	27.55395	85.05628	Lamidanda to Simvanjyang
<i>Henckelia pumila</i> (D. Don) A.Dietr.	28	31 August 2014	27.55658	85.06247	Lamidanda to Simvanjyang
<i>Symplocos</i> Wall. ex G. Don	29	31 August 2014	27.55658	85.06247	Lamidanda to Simvanjyang
<i>Symplocos</i> Wall. ex G. Don	30	1 September 2014	27.60127	85.0867	Daman to Simbhanjyang
<i>Didymocarpus aromaticus</i> Wall. ex D. Don	31	1 September 2014	27.59975	85.0822	Simbhanjyang to Rikhashwor temple
<i>Symplocos</i> Wall. ex G. Don	32	1 September 2014	27.58282	85.07462	Simbhanjyang to Dandubhanjyang
<i>Henckelia grandifolia</i> A.Dietr.	33	1 September 2014	27.58282	85.07462	Simbhanjyang to Dandubhanjyang
<i>Didymocarpus aromaticus</i> Wall. ex D. Don	34	1 September 2014	27.57663	85.0701	Simbhanjyang to Dandubhanjyang
<i>Berberis aristata</i> DC.	35	1 September 2014	27.588889	85.766667	Dandubhanjyan to Simbhanjyang
<i>Berberis aristata</i> DC.	35	31 August 2014	27.539167	85.341944	Lamidanda to Simbhanjyang
<i>Didymocarpus primulifolius</i> D. Don	36	2 September 2014	27.60662	85.09332	Daman to Tistung

<i>Didymocarpus aromaticus</i> Wall. ex D. Don	37	1 September 2014	27.61223	85.08692	Daman to Tistung
<i>Berberis asiatica</i> Roxb. ex DC.	38	2 September 2014	27.6541	85.09973	Falata
<i>Rhynchoglossum obliquum</i> Blume	39	2 September 2014	27.69108	85.09945	Tistung to Naubise
<i>Henckelia pumila</i> (D. Don) A.Dietr.	41	4 September 2014	28.19595	83.8953	Pokhara to Bartung
<i>Strobilanthes hamiltoniana</i> (Steud.) Bosser & Heihe	42	4 September 2014	28.19595	83.8953	Pokhara to Bartung
<i>Aeschynanthus parviflorus</i> (D. Don) Spreng.	43	4 September 2014	28.19595	83.8953	Pokhara to Bartung
<i>Barleria cristata</i> L.	44	6 September 2014	28.6353	81.62287	Surkhet to Ratanangla
<i>Strobilanthes</i> Blume	45	6 September 2014	28.67218	81.63887	Ratanangla
<i>Strobilanthes violifolia</i> T.Anderson	46	6 September 2014	28.69247	81.6297	Seri -9, Guranse
<i>Strobilanthes</i> Blume	47	6 September 2014	28.69247	81.6297	Seri -9, Guranse
<i>Symplocos</i> Wall. ex G. Don	48	6 September 2014	28.75835	81.63892	Seri -9, Guranse
<i>Aeginetia indica</i> L.	49	7 September 2014	28.76948	81.67592	Dallu-Ghodabas
<i>Ruellia beddomei</i> C.B.Clarke	51	8 September 2014	28.21087	82.31747	Tulsipur to Ramri
<i>Henckelia pumila</i> (D. Don) A.Dietr.	52	8 September 2014	28.246	82.35292	Kapurkot
<i>Schima wallichii</i> (DC.) Korth.	53	8 September 2014	28.246	82.35292	Kapurkot
<i>Didymocarpus pedicellatus</i> R. Br.	54	9 September 2014	28.246389	82.346667	Kapurkot, Mulpani
<i>Platystemma violoides</i> Wall.	55	9 September 2014	28.246389	82.346667	Kapurkot, Mulpani
<i>Didymocarpus pedicellatus</i> R. Br.	50	8 September 2014	28.201111	82.318889	Tulsipur to Ramri
<i>Didymocarpus</i> Wall.	57	11 September 2014	27.951389	82.83	Baddada to Darbang

<i>Didymocarpus pedicellatus</i> R. Br.	58	12 September 2014	27.851111	83.503889	Bandipokhara-2, Sankhar
<i>Aeginetia indica</i> L.	56	10 September 2014	27.949167	82.4975	Ghorai to Lamahi
<i>Strobilanthes saccata</i> J. R. I. Wood	59	16 September 2014	27.589722	85.379167	Near Naudhara
<i>Strobilanthes lachenensis</i> C.B.Clarke	60	16 September 2014	27.5775	85.395833	Near Falamkhani
<i>Strobilanthes</i> Blume	61	16 September 2014	27.5775	85.395833	Near Falamkhani
<i>Didymocarpus villosus</i> D. Don	62	16 September 2014	27.579167	85.387222	Falamkhani to Naudhara
<i>Henckelia grandifolia</i> A.Dietr.	63	16 September 2014	27.589722	85.379167	Near Naudhara
<i>Didymocarpus cinereus</i> D. Don	26	31 August 2014	27.539167	85.341944	Between Lamidanda and Simbhanjyang
<i>Didymocarpus pedicellatus</i> R. Br.	40	3 September 2014	27.95	84.428056	Bandipur-6, Chun pahara