

# Flora of Pushpagiri Wildlife Sanctuary, Karnataka

Tenure: 2016 - 2020

Flora of India – Series 4



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Botanical Assistant

BSI, WRC, Pune.

Joined BSI: 01/02/2010

Under guidance of

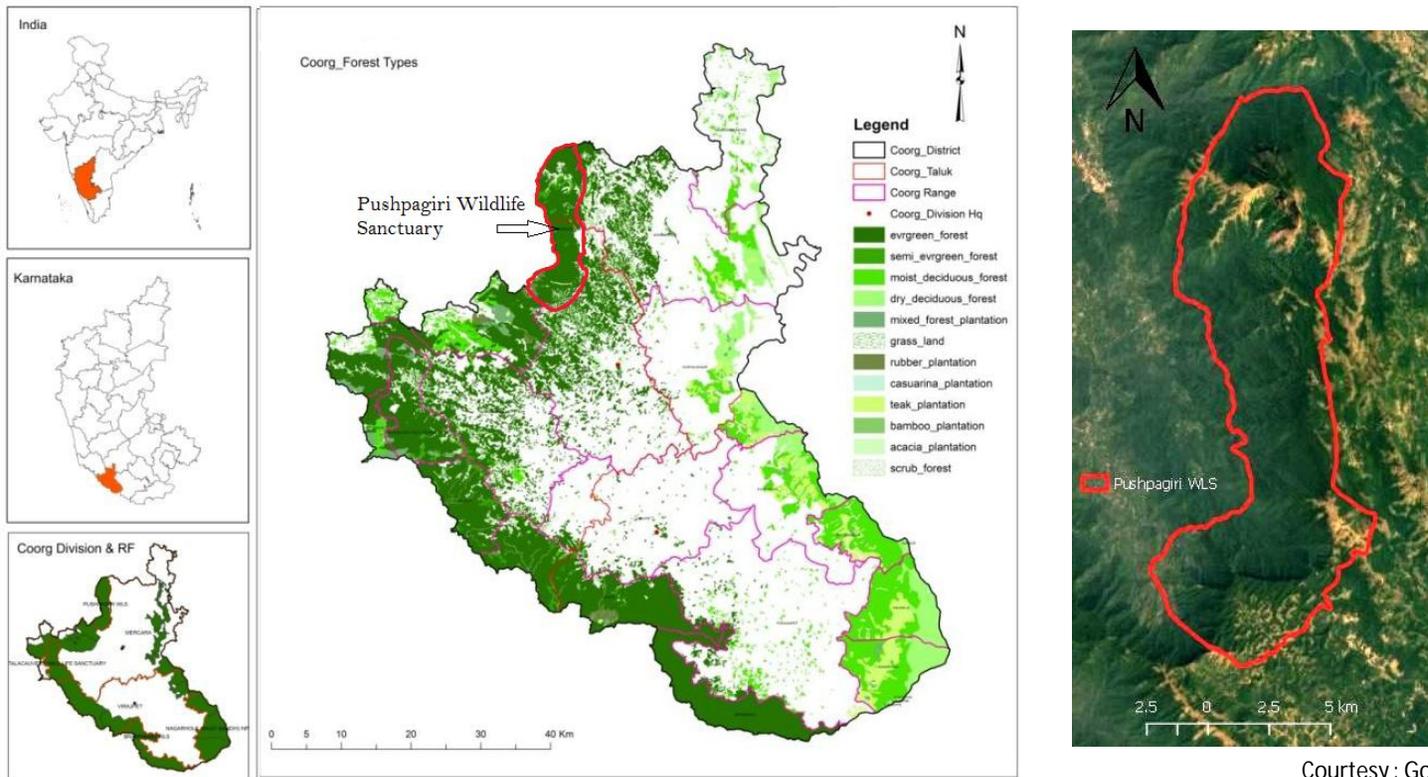
**Dr. P. LAKSHMINARASIMHAN**

Scientist 'E' & H.o.O,

Botanical Survey of India, WRC, Pune.

# INTRODUCTION OF STUDY AREA

- One of the **27** WLS in Karnataka state (National Wildlife database, 2015)
- Located in **Somvarpeth taluka of Kodagu district**, Karnataka between **12°25' to 12°40' N** latitude and **75°39' to 75°45' E** longitude
- Karnataka Government Notification **No. AHFF.173.FWL.87(1) dated 31<sup>st</sup> August 1987**
- Area = **102.92** sq. km.
- Altitudinal variation ranging from **60 m to 1700 m**
- The ENVIS technical report no.39 has marked Pushpagiri Wildlife sanctuary as **one of the seven biodiversity hotspots of hope in the Kodagu district** of Karnataka

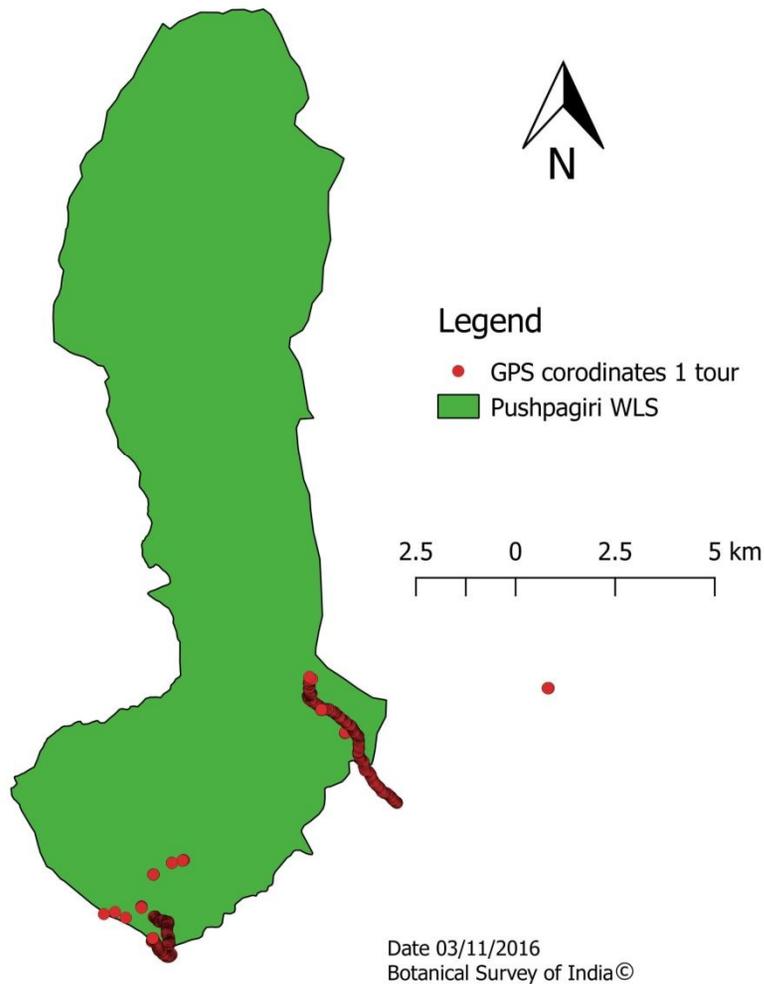


Courtesy : Google Earth

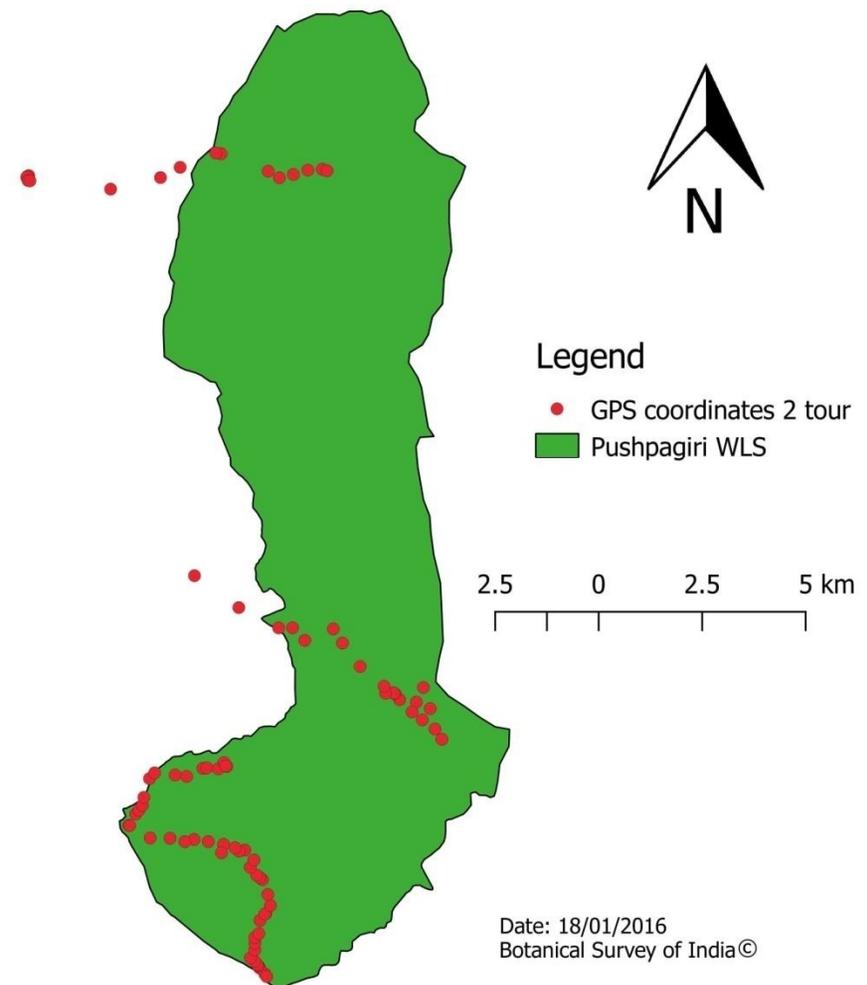
# PROGRESS OF ANNUAL ACTION PLAN PROJECT

- Three field tours proposed for the year 2016-17.
- Two field tours have been already conducted. 336 field no. of plants collected.
- Approx. 200 plants identified till date.

Flora of Pushpagiri WLS, Karnataka



Flora of Pushpagiri WLS, Karnataka



# FEW INTERESTING COLLECTIONS



*Christisonia bicolor* Gardner



*Barleria courtallica* Nees



*Impatiens scapiflora* B. Heyne ex Roxb.



*Balanophora fungosa* J.R. Frost & G. Frost



*Lobelia nicotianifolia* Roth ex Schult.



*Pecteilis gigantea* (Sm.) Raf.



*Myristica magnifica* Bedd.



*Justicia santapau* Bennet

# FEW RARE ORCHIDS COLLECTIONS



*Pachystoma pubescens* Blume



*Oberonia* sp.



*Zeuxine longilabris* (Lindl.) Trimén



*Satyrium nepalense* D. Don



*Anoectochilus elatus* Lindl.



*Epipogium roseum* (D. Don) Lindl.



*Tainia bicornis* (Lindl.) Rchb. f.



*Zeuxine gracilis* (Breda) Blume

# OFFICIAL WORK: SCIENTIFIC AND ADMINISTRATIVE

## SCIENTIFIC WORK:

- ❖ Identified 518 plant specimens for B.Pharm., M.Pharm., M.Sc. & Ph.D. students.
- ❖ Attended 101 visitors for herbarium consultation or visit to BSI, WRC, Pune campus.
- ❖ Documented 3948 herbarium specimens of BSI, WRC, Pune for digitization of herbarium.
- ❖ Accompanied scientists and researchers of Botanical Survey of India and others institutions for nine local field tours.
- ❖ Provided scanned images of herbarium, pdf protologues for reference purpose to scientists and researchers of Botanical Survey of India and others institutions from time to time.
- ❖ Incorporated 3200 herbarium specimens of ongoing and previous projects.

## ADMINISTRATIVE WORK:

- ❖ Performing day to day duties of herbarium store.
- ❖ Monitoring periodic servicing work of scientific instruments like microscope, camera, etc.
- ❖ Assisted Head of Office as and when required.

# ACHIEVEMENTS

- Number of projects completed: 0

Assisted Dr. J.S. Jalal, Scientist 'D' for 9 field tours under project 'Orchids of Maharashtra' from year 2012 – 2014.

- Number of books published: 0

- Number of papers published: 6

- Nomenclature Proposals: 1

Request for binding decision on whether *Ceropegia occulata* Hook. and *C. occulta* R.A. Dyer (Apocynaceae) are sufficiently alike to be confused

- Typification: 1

Neotypification of *Pancratium sanctae-mariae* (Amaryllidaceae)

- Rediscovery: 1

Resurrecting the type locality of *Ceropegia odorata* (Apocynaceae) after 175 years.

- Training programs/Workshop attended: 2

DNA Barcoding and Phylogenetics of Plants.

DST-NRDMS Winter school for Geospatial Technologies.

# ACHIEVEMENTS

- Number of new taxa: 1

*Ceropegia* sp. (In communication)



- Number of new reports published: 2

*Crotalaria pallida* Aiton var. *obovata* (G. Don) Polhill (Fabaceae) - an extended distribution for Gujarat, Maharashtra, Goa and Karnataka.

*Pancratium nairii* Sasikala & Reema Kumari (Amaryllidaceae): A New Record for Maharashtra.



*Crotalaria pallida* Aiton var. *obovata* (G. Don) Polhill



*Pancratium nairii* Sasikala & Reema Kumari

# FUTURE PLAN OF RESEARCH

## Current Ongoing Project: Flora of Pushpagiri WLS

- Conducting a 7 field tour for plant collection as proposed for the year 2017-2019.
- Identifying and processing of specimens collected from field tours.
- Herbarium consultation tours to JCB & FRLHT.
- Writing of thesis and digitizing selected specimens.



Pushpagiri Peak  
1712 m

## Future Projects

- Floristic survey of Ephemeral Angiosperms of Western Ghats.
- Satellite Mapping of RET species throughout India.
- Molecular Phylogenetic study of Bulbous Ephemerals.

# ACKNOWLEDGEMENT

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Dr. Paramjit Singh  
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Dr. P. Lakshminarasimhan  
H.o.O., BSI, WRC, Pune.  
Guide

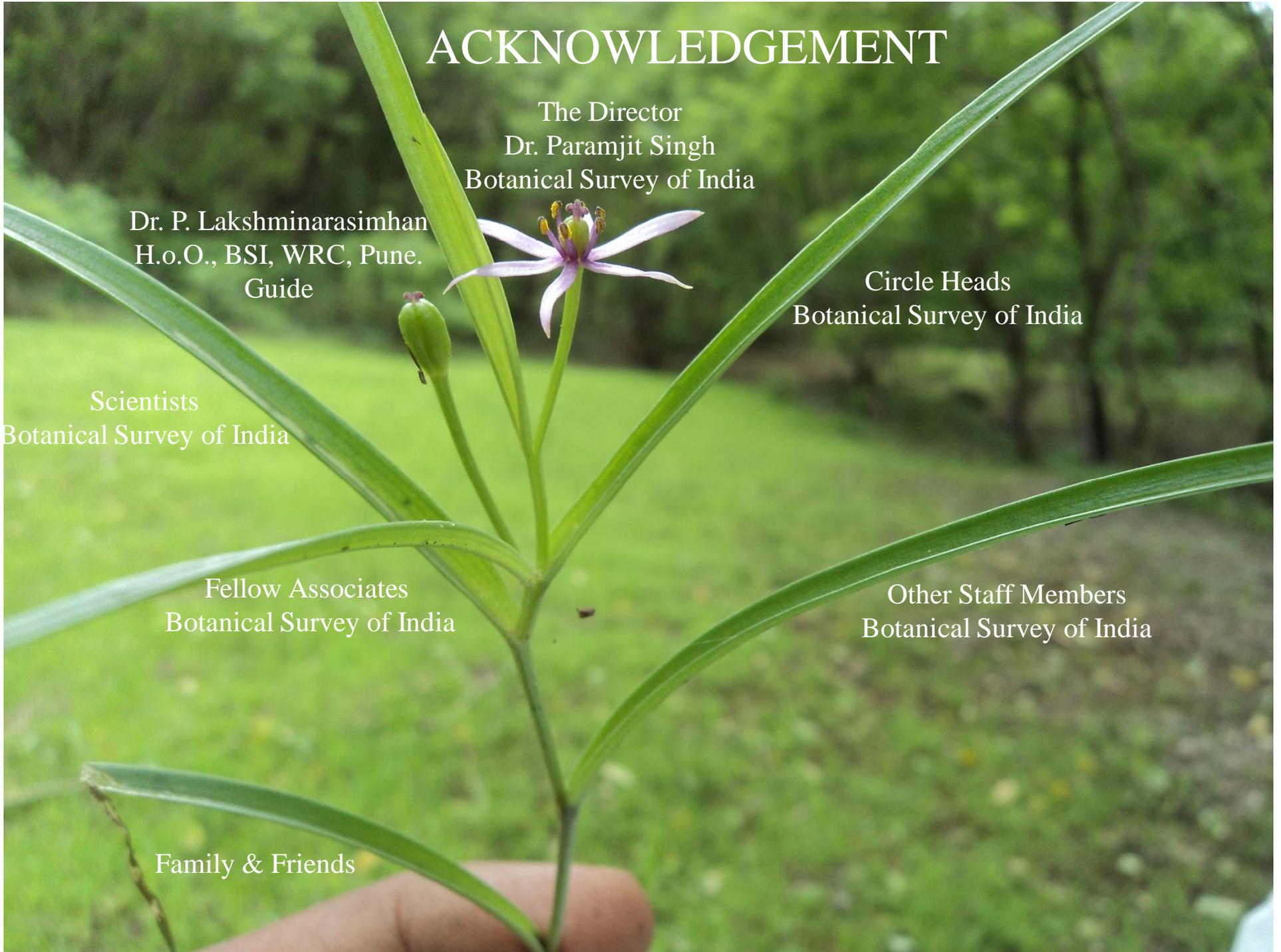
Circle Heads  
Botanical Survey of India

Scientists  
Botanical Survey of India

Fellow Associates  
Botanical Survey of India

Other Staff Members  
Botanical Survey of India

Family & Friends





*Memecylon umbelatum*



*Impatiens acaulis*



*Smithia setulosa*



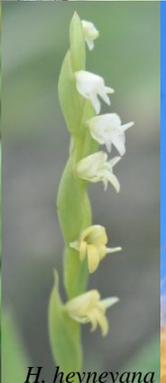
*Adenoon indicum*



*Osbeckia parvifolia*



*H. longicorniculata*



*H. heyneyana*



*Themeda sabrimala*

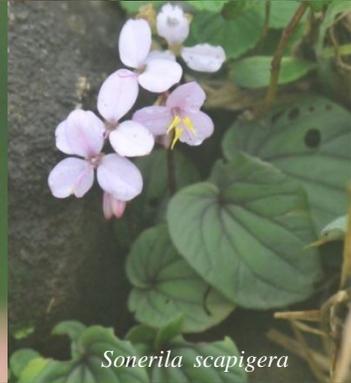


*Murdannia versicolor*

THANK  
YOU



*Exacum pumilum*



*Sonerila scapigera*



*Euonymus indicus*



*Themeda sabrimala*



*Murdannia versicolor*

THANK  
YOU



*Nothapodytes nimmoniana*



*Commelina clavata*



*Pleocaulus ritchei*



*Canarium strictum*



*Impatiens dasysperma*



*Bauhinia phoenicea*