

Annual Scientific Meet 2017



Dr. L. Rasingam

Scientist -C

Botanical Survey of India

Deccan Regional Centre

Hyderabad

Research Scholar (2003-2008)

- Worked as a **Flora of India** Scholar at ANRC, Port Blair from November 2003 to August 2008
- Completed '**Flora of Little Andaman Island**' under the programme
- Around 645 species were collected and enumerated from the Island
- The report has been submitted to Directorate for publication
- No. of new species described: 01
- Paper published: c. 30



Other works...

- Studied the epiphytic flora on the trunks of Oil palm.
- Surveyed the flora of Chidiyatapu Biological park.
- Enumerated plants used for dental care in Little Andaman Island.



Ph. D.

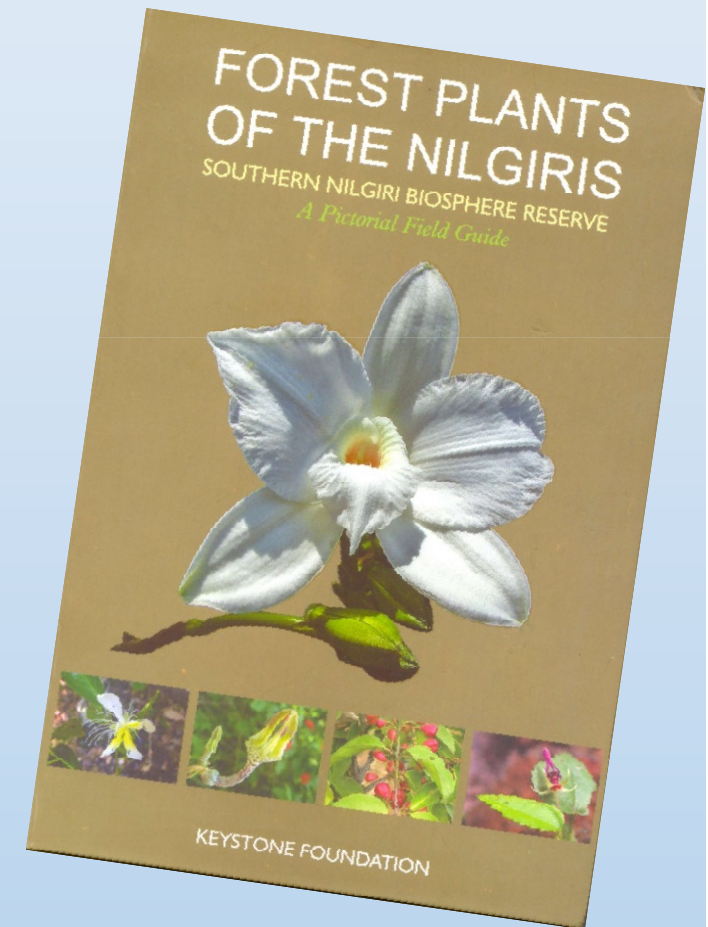
- Title of Ph.D. Thesis: “**Biodiversity inventory of trees and understory plants in undisturbed and disturbed lowland tropical forests of Little Andaman Island, India**”
- Under the Guidance of **Dr. N. Parthasarathy**, Pondicherry University, Pondicherry on 2008.
- Published 2 research papers 1 in Tropical Ecology & 1 in Biodiversity & Conservation.





Experience in Western Ghats (2008-2010)

- ❖ Joined at Keystone Foundation, Kotagiri on November 2008.
- ❖ Worked on the flora of Pillur, Satyamangalam and Nilambur forests of NBR.
- ❖ Completed a project entitled “Wild edible plants of NBR”.
- ❖ Published a book entitled **“Forest Plants of Nilgiris, Southern Nilgiri Biosphere Reserve – A pictorial field guide”**



Experience in Western Ghats (2008-2010)

- Inventoried indigenous brooms used by the tribal communities of NBR.
- Part of the IUCN Red list review committee for the wetland plants of Western Ghats and reviewed c. 50 species.

The IUCN Red List of Threatened Species™ 2016-3

Home • *Limnophila chinensis* (Finger Grass, Rice Paddy Herb)

Limnophila chinensis Scope: Global
Language: English
<http://dx.doi.org/10.2305/IUCN.LK.2011.1.BITS.117231A7411001.en> Download assessment (3)

NOT EVALUATED DATA DEFICIENT **LEAST CONCERN** NEAR THREATENED VULNERABLE ENDANGERED CRITICALLY ENDANGERED EXTINCT IN THE WILD EXTINCT

Summary | Classification Schemes | Images & External Links | Bibliography | Full Account

Taxonomy level

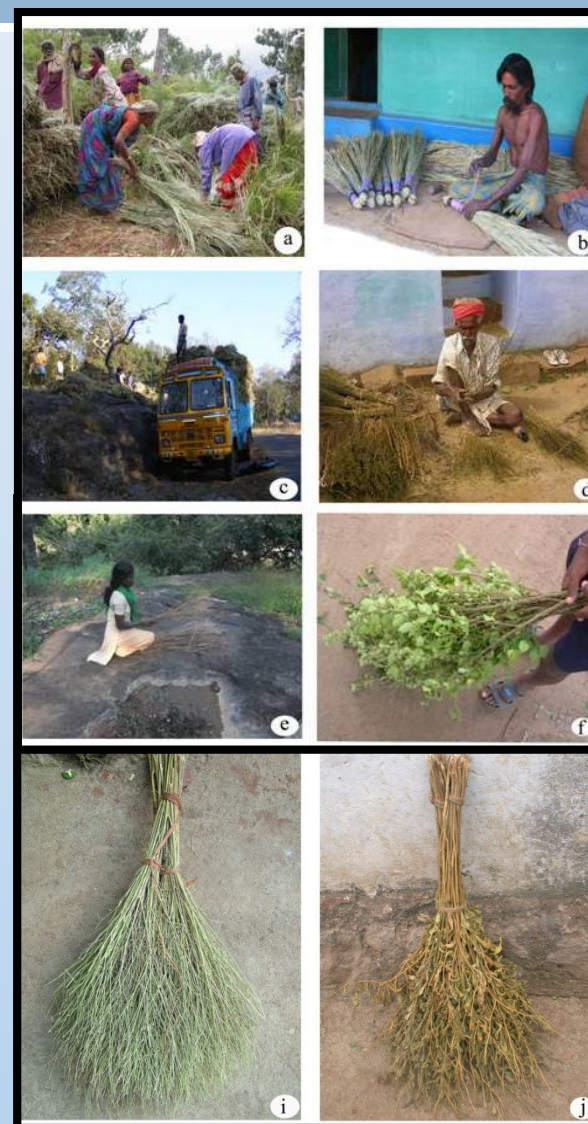
Kingdom	Phylum	Class	Order	Family
Plantae	Tracheophyta	Magnoliopsida	Scrophulariales	Scrophulariaceae

Scientific Name: *Limnophila chinensis*
Species Authority: (Osbeck) Merr.
Common Name(s): English - Finger Grass, Rice Paddy Herb
Synonym(s): *Limnophila chinensis* (Osbeck) Merr. ssp. *clarkei* (Haines) Murti & Panigrahi
Limnophila chinensis (Osbeck) Merr. ssp. *scaberima* (G. Kuntz) Thottathil
Limnophila nirsuta Heyne ex Bentham
Taxonomic Notes: *Limnophila chinensis* has two known varieties - L. c. var. *chinensis* and L. c. var. *clarkei*.

Assessment Information level

Red List Category & Criteria: Least Concern ver 3.1

Year Published: 2011
Date Assessed: 2010-12-06
Assessor(s): Kumar, B.
Reviewer(s): Rasingam, L., Lakshminarasimhan, P., Gunaga, S. & Raghavan, R.
Contributor(s): Molar, S.
Justification: *Limnophila chinensis* is a commonly occurring widely distributed species and has no major threats. Hence it is categorized as Least Concern.



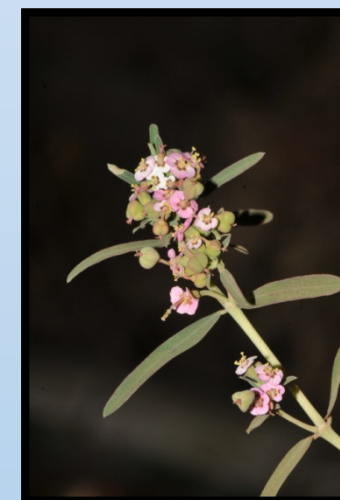
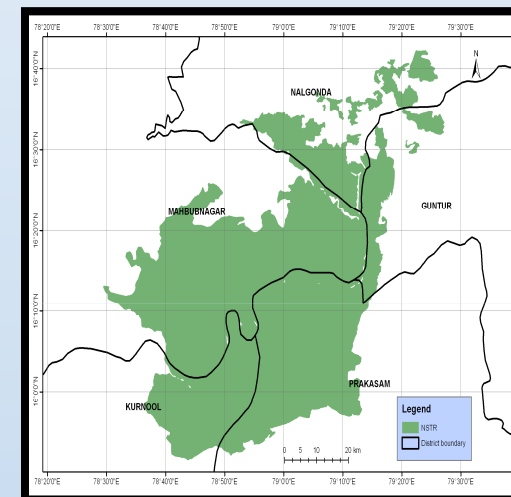
Re-entry to BSI

- ❖ Selected as a **Scientist B** through UPSC and joined in Botanical Survey of India, Head Quarter, Kolkata on 15th September 2011 (deployed to Deccan Regional Centre, Hyderabad)
- ❖ Selected as a **Scientist C** through direct requirement by MoEF & CC and joined on 21st July 2012.

Flora of Nagarjunasagar Srisailem Wildlife Sanctuary (Tiger Reserve) (AAP)

Dr. L. Rasingam, Dr. M. Sankara Rao & Mr. S. Nagaraju

- Period: 2012-17
- Largest Tiger Reserve in India
- Spreads in 5 districts of Andhra Pradesh and Telangana states.
- Located c.130 km south of Hyderabad
- Area 3568 sq km
- Notified as a WLS in 1978
- Later declared as Tiger Reserve in 1983 and renamed as Rajiv Gandhi Wildlife Sanctuary in 1992.



Euphorbia deccanensis var. *nallamalayana*

- No. of field tours undertaken - 10
- No. of field numbers collected - 1113
- No. of species identified & documented – 692
- Interesting findings:
 1. Reported 2 new records for AP
 2. Recollected 5 RET species from the TR



Sacred groves of Andhra Pradesh (AAP)

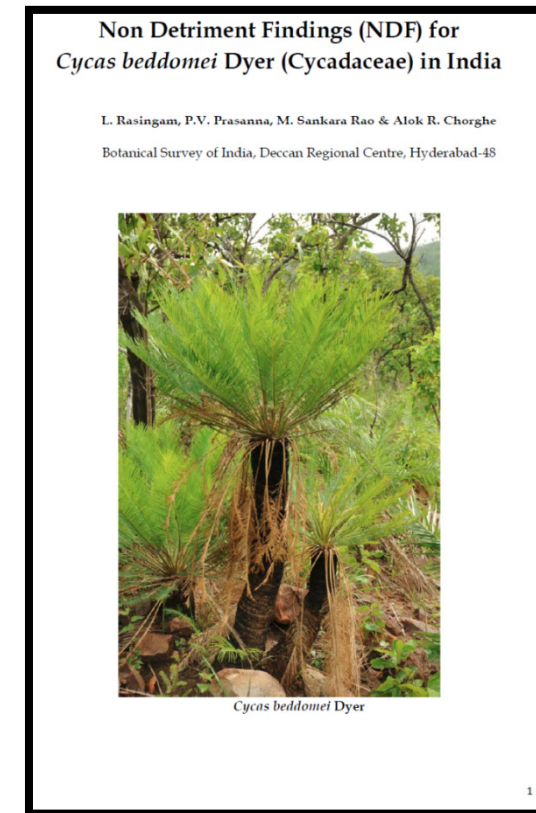
- Part of the project for a year (2012-13).
- Completed the survey of Thimmamma marimanu, Chilkur Balaji temple, Yadagirigutta and Birla mandir sacred groves and enumerated list of species.



NDF studies for *Cycas beddomei* Dyer (Cycadaceae) in India

Dr. P. V. Prasanna, Dr. L. Rasingam & Dr.
M. Sankara Rao

- Period -2012 (July-December)
- Tours undertaken-04
- Reported new population in Nellore district
- Report prepared and submitted to the Directorate
- Interesting findings:
 - New species: 03
 - New records: 02



IUCN Assessment

COMMUNICATION



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DISCOVERY OF A NEW SUB-POPULATION, MAPPING AND UPDATED RED LIST ASSESSMENT OF THE ENDANGERED *CYCAS BEDDOMEI* DYER (CYCADALES: CYCADACEAE)

B. Ravi Prasad Rao¹, M. Chennakesavulu Naik², S. Salamma³, M.V. Suresh Babu⁴ & L. Rasingam⁵

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RED LIST ASSESSMENT: *CYCAS BEDDOMEI*

Kingdom: Plantae
Phylum: Tracheophyta
Class: Cycadopsida
Order: Cycadales
Family: Cycadaceae
Genus: *Cycas*
Species: *beddomei*
Authority: Thiselton-Dyer, 1883.

Common name: Beddome's Cycas (English); Peritha, Madanakamakshi and Kondaeetha (Telugu).

Taxonomic notes: The species was described first by Thiselton Dyer (1883) with distribution in Cuddapah Hills, although its presence was first observed by Beddome (1869) who recorded it as *Cycas revoluta*. Type specimen is from Cuddapah hills: H.H. Yarde s.n., Aug. 1882 (syn. K, 3 sheets; isosyn. BM, 1). The species is considered valid and *Cycas beddomei* is an accepted name as per version 1.1 of The Plant List (2013).

ASSESSMENT INFORMATION

Red List Category and Criteria (Version 3.1): Endangered B1ab(ii,iii,v)+B2ab(ii,iii,v)

Justification: The whole population of the species is considered under two locations comprising two sub-populations. The extent of occurrence is calculated as 1,713km²; area of occupancy, 16.52km² and the number of mature individuals is extrapolated to 3.90 lakhs. Major threats such as fire, pests and harvest for medicinal and ornamental purposes keep this species as Endangered due to the continuing decline observed on the area/quality of habitat and number of mature individuals.

GEOGRAPHIC RANGE / DISTRIBUTION INFORMATION

Range description: The species is endemic to Seshachalam and Velikonda hills in southern Andhra Pradesh, India and is found at an altitudinal range of 500–1,165 m.

Countries of occurrence: Native to India (Andhra Pradesh State).

Extent of Occurrence (EOO): EOO is estimated at 1713km² with distribution in Seshachalam Hills and Velikonda Hills.

20 transects of
1000x5 m

Seshachalam hills:
2834 (c. 280000)

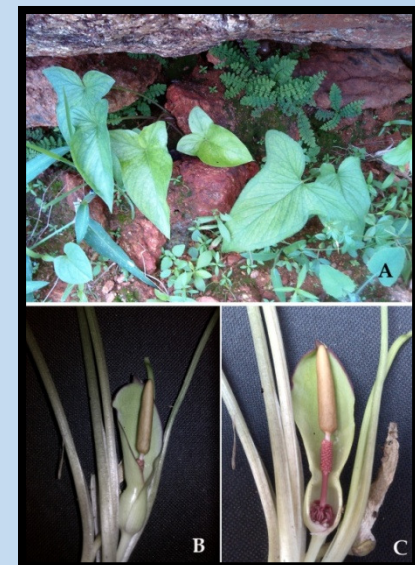
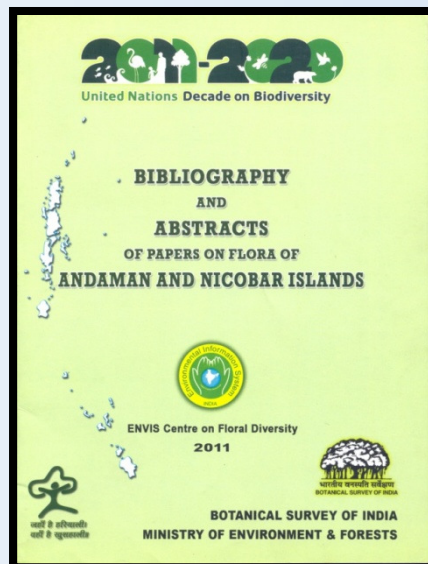
Velikonda hills:
3962 (390000)

Administrative duties

- DDO from July 2015
- HoO from September 2016
- Identification & issuing authentication certificate
- Compilation of annual & monthly technical reports
- Purchase committee chairman
- Member of AP & TS State Biodiversity Board

Summary

- No. of projects carried out individually/jointly: **03**
- No. of books written individually/jointly: **02/01**
- No. of papers published individually/jointly: **52 (10/34/8)**
- No. of new taxa described: **05**
- No. of new reports for India & other geographic regions: **06 & 28**



New species described

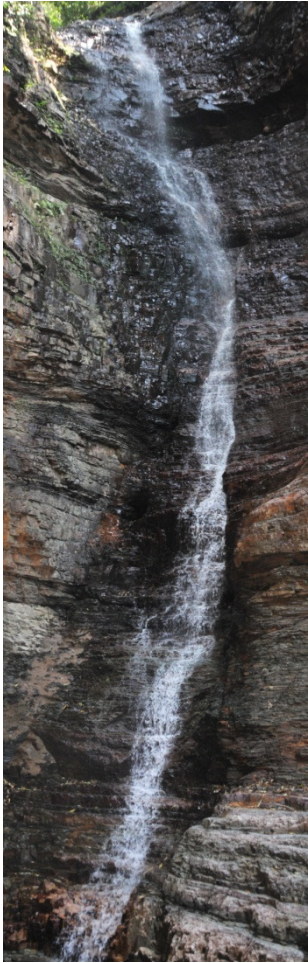


Other activities

- Seminars attended :06
- Poster/oral presentations : 1 + 1
- Training undertaken: 02 (Botanical Latin & NCDDO)
- Reviewed 4 Ph.D. thesis 3 for MS University, Tirunelveli & 1 for Periyar University, Salem.
- Reviewed many articles for national and international journals.
- Prepared list of RET species for AP & Telangana along with other scientists and submitted to the respective Biodiversity Board.
- Prepared list of species distributed in the Islands of Andhra Pradesh along with other scientists and submitted to the Ministry.

Future plan

- NDF studies on *Pterocarpus santalinus* L.f. (Leguminosae).
- Flora of Amrabad Tiger Reserve, Telangana
- Interested in revisionary studies, if allotted



Thank you

