

**Achievements as a Researcher at
Botanical Survey of India
Period: 2001-2017**

W. ARISDASON

Scientist C

Botanical Survey of India, Headquarters

AS A RESEARCH FELLOW

Joined the Southern Circle, Coimbatore on 14 May 2001

- Junior Research Fellow: May 2001 – March 2003
- Senior Research Fellow: April 2003 – December 2004
- **Project:** “Studies on the Flora of the Indira Gandhi National Park, Southern India”

RESULTS AND SIGNIFICANT FINDINGS

Field No.: 6296

Taxa: 994

Genera: 561

Families: 138

Endemics: 244 taxa

RET: 92 taxa

Novelties: 02 species;

Rediscoveries: 06 species;

Synonym novum: 01 name

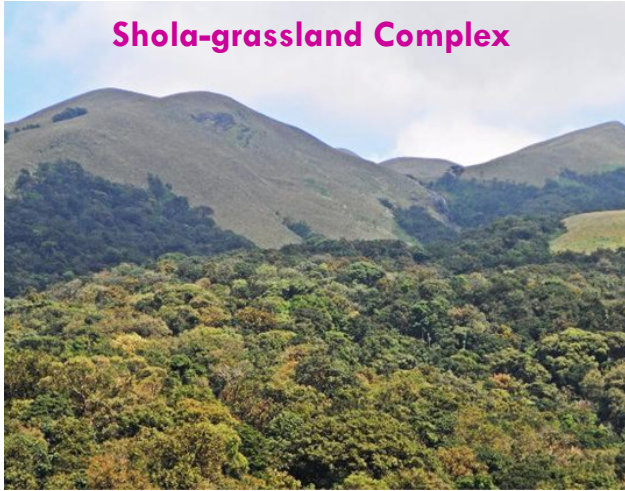
Additions: Anamalais: 176 taxa;

Tamil Nadu: 06 species;

Coimbatore: 92 taxa

Teratological variations in flowers: 04 species

Shola-grassland Complex



Impatiens tomentosa



Impatiens scapiflora



Magnolia nilagirica



Wet evergreen forest



Coeloglyne glandulosa



Crotalaria fysonii



Riparian forest



SIGNIFICANT CONTRIBUTION

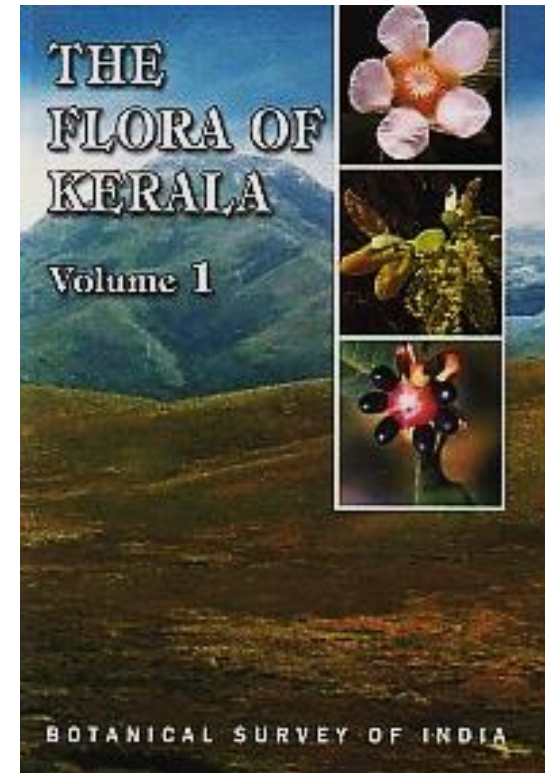
- **Flora of Kerala Volume 1 (Ranunculaceae – Connaraceae)**
- **Editor: Dr. P. Daniel (former Joint Director, BSI, SC)**
- **Botanical Survey of India, 2005**

My contributions

- **Greatly assisted throughout**
- **Contributed jointly taxonomic accounts of 08 families**
- **Guttiferae (pp. 328–353) ; Dipterocarpaceae (pp. 358–373);**

Elaeocarpaceae (pp. 498–505); Linaceae (pp. 505–509); Oxalidaceae (pp. 565–579);

Aquifoliaceae (pp. 691–695); Leeaceae (pp. 763–769); Staphyleaceae (pp. 787–790)



AS RESEARCH FELLOW – SECOND PHASE

Project: “Studies on the Mangroves of Krishna and Godavari Estuaries, Andhra Pradesh”

- Junior Research Fellow

(i) Southern Circle, Coimbatore: July 2005 – December 2005

(ii) Deccan Circle, Hyderabad: January 2006 – March 2007

- Senior Research Fellow

Deccan Circle, Hyderabad: April 2007 – October 2007

RESULTS AND FINDINGS

Field No.: 1200

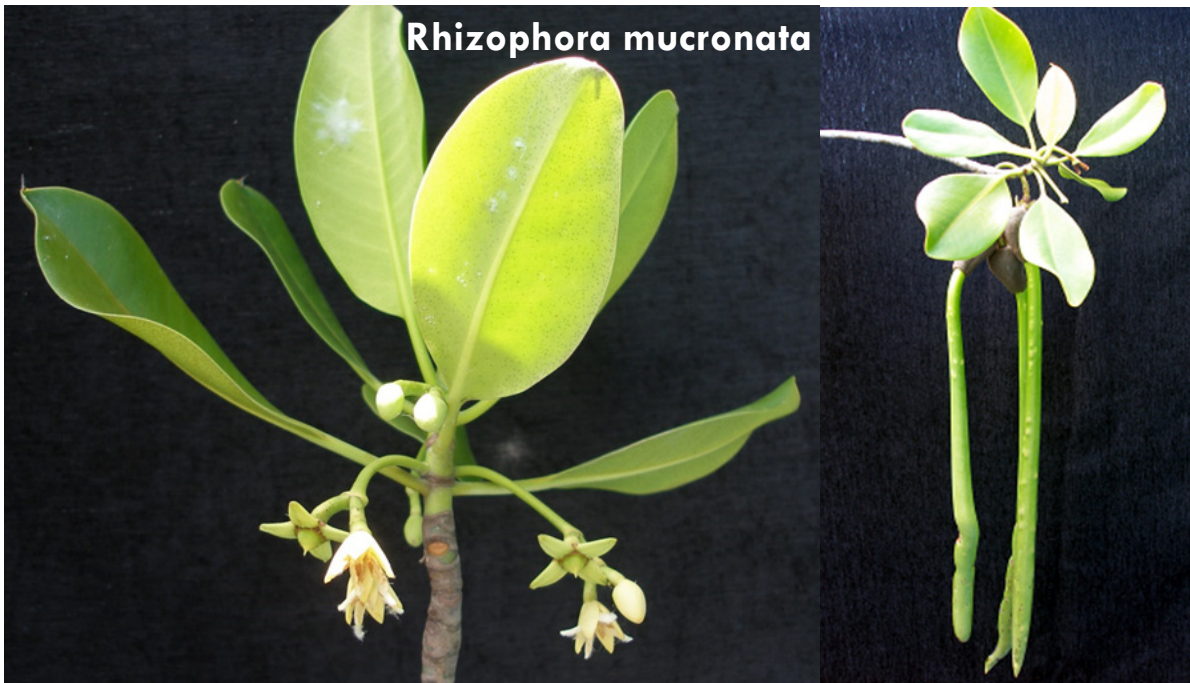
True Mangroves: 20 species Mangrove Associates: 48 species

Addition: 01 species [*Brownlowia tersa* (L.) Kosterm.]

Revision: *Xylocarpus* J. König (03 species in the world)

Book Chapter: Review of Mangrove species in India Review: Mangroves of Andhra Pradesh

Mangroves of Andhra Pradesh



TRANSIT PERIOD

2008 – 2012: Joined as an Assistant Professor of Botany (B.S.c. and M.Sc.) in July 2008

at Madras Christian College (Autonomous), Chennai

Guided **03** students, for their M.Sc. Programme

2009 – 2012: Served as an Editorial Assistant for Rheedeia (Vol. 18 – 21)

the official journal of Indian Association for Angiosperm Taxonomy

2009 : Invasive Alien Species of Tamil Nadu [Nat.: **200**; Cult.: **970**; Cult./Nat.: **56**]

2010 : Guindy Raj Bhavan Tree Census

2011 : IUCN Assessment of **48** freshwater angiosperms of Western Ghats

Taxon sheet for **18** species published at <http://www.iucnredlist.org/apps/redlist>

BACK TO BOTANICAL SURVEY OF INDIA

Joined on 18 January 2012 as Scientist 'B' (UPSC Selection)

at Botanical Survey of India, Headquarters, Kolkata

Period of service as Scientist B: January 2012 – January 2015

Scientist C: February 2015 – till date

ASSIGNED WORKS AND ACCOMPLISHMENTS

1. Data entry and validation of data for Indian Virtual Herbarium Database

(authentication of name of the taxon and its family and phytogeographical distribution)

Accomplished Work : 758 probable type specimens

2. Checklists of Plants of States and Union Territories of India

(checking the correct names, basionym and synonyms of every listed taxon)

States: 17

Union Territories: 04

3. Flora of India

I. Flora of India [Volume 09]

Prepared the taxonomic account of the following 03 angiospermic families

1. **Altingiaceae**: Genus: 01; Species: 01 (cultivated 03)
2. **Escalloniaceae**: Genus: 01 (cultivated 01); Species: 01 (cultivated 02)
3. **Vahliaceae**: Genus: 01; Species 02. Status: **COMPLETED**

II. Flora of India [Volume 20]

Edited the manuscript on Tribe Justiceae (Acanthaceae) consisting 03 subtribes

1. Subtribe Andrographideae [Genera: 05; Species: 48; Varieties: 05]
2. Subtribe Barlerieae [Genera: 3; Species: 30; Subspecies: 01; Variety: 01]
3. Subtribe Asystasieae [4 Genera; Species: 13; Subspecies: 01]

Total: Genera: 12; Species: 91; Subspecies: 02; Varieties: 06

Remark: Included 03 species and 01 variety. Status: **COMPLETED**

4. State Flora: Jharkhand and Bihar

1. Mimosaceae: Genera: 13; Taxa: 42 (Going on)

Remark: Specimens are examined, and nomenclatural citations are prepared.

Additional Families

[Berberidaceae: Genus 01; Species: 01; Nelumbonaceae: Genera 02; Species: 04

Nymphaeaceae: Genus 01; Species 01; Menispermaceae: Genera: 06; Species: 07;

Burseraceae: Genera 03; Species: 03; Leeaceae: Genus: 01; Species: 06;

Ochnaceae: Genus: 01; Species: 02]

5. Editorial Service for Nelumbo

- **Reviewed/edited manuscripts of 35 papers from Nelumbo**
- **Served as an Editorial Assistant for Nelumbo Volume 54 and 55**

5b. Manuscripts of Books [Floras, Fascicles and Special Issues]

- **Floras**
 1. Protected Areas (NPs and WLSs) : **02**
 2. District Flora : **02**
 3. State Flora : **02**
 4. Ramsar Site : **01**
- **Fascicle** : **01**
- **Special Issue** : **01**

5c. ENVIS Newsletter (Biannual)

Edited the entire content of Newsletters of following volumes (2012 – 2016)

17(2): 06 articles

18 (1): 05 articles and 01 report.

19(1): 07 articles.

20(1): 08 articles and 01 report

21(1): 07 articles and 02 reports

18(2): 08 articles

19(2): 05 articles and 04 short notes

20(2): 08 articles

21(2): 08 articles

5d. Bibliography and Abstracts of Papers on Flora of States and Union Territories

Sl. No.	State Name	Total Number of References and Abstracts	Year of Publication
1.	Kerala	1370	2013
2.	Tamil Nadu	1482	2014
3.	Karnataka	944	2015
4.	Goa	191	2015
5.	Andhra Pradesh	1110	2016
6.	Odisha	1114	2017

Significance: Introduced for the first time a brief account on the state, covering physiography, vegetation, plant diversity of every group, threats and conservation strategies .

5e. ENVIS Websites (www.bsienviis.nic.in)

Prepared/Edited the following databases

- i. Status of plant diversity in States (08) and Union Territories (02) of India.**
- ii. National Tree and National Flower and State tree (26 + 04) and flower (23 + 03)**
- iii. Invasive Alien Species of India (name, habit and nativity of 173 species)**
- iv. Type Specimens at Botanical Survey of India (Type specimens in BSI herbaria [12])**
- v. Biodiversity Hotspots of India (34 global hotspots and 04 Indian hotspots)**
- vi. Interesting Plants ([Rafflesia](#), [Amorphophallus titanum](#), and edited the profile of 07)**
- vii. Fragile Ecosystems in India ([Mangroves](#), [Cold Deserts](#))**

6. Publications

- **Book(s)/Chapters in Book(s) [excluding abstracts]: 06/13 (as editor 02)**
- **Journals (only published/accepted): 26/02 Newsletter: 07 Website: 09**
- **Book Review: 01 Obituary: 02**

Significant contributions

- **New Species: 03**
- **Rediscoveries: 04**
- **New Reports: India: 01 State: 04**
- **New Names: 02**

7. Awards/Memberships

- **Life Member of the Indian Association for Angiosperm Taxonomy (IAAT)**
- **Assessor of Freshwater Biodiversity Assessment Unit, IUCN, Cambridge**

8. As Reviewer/Examiner/Resource Person

8a. Reviewer of Journals

- i. National (04): Annals of Plant Science, Journal of Economic and Taxonomic Botany, Nelumbo, Rheedeia**
- ii. International (04): Annales Botanici Fennici, Bangladesh Journal of Plant Taxonomy, Taiwania, Webbia**

8b. Examiner of Ph.D. Theses: (i) Indian: 01 (ii) Foreign: 01

8c. Resource Person in Workshops: 04

9. Miscellaneous

- Biographic profile portraits of 48 European and Indian Botanists (in Type Sections of CAL)**
- Data on diversity of various plant groups, for “Compendium of Environment Statistics”, for Ministry of Statistics and Programme Implementation, New Delhi**
- Minutes/Reports of conferences and workshops organised by BSI in Kolkata/Howrah**



Thank you