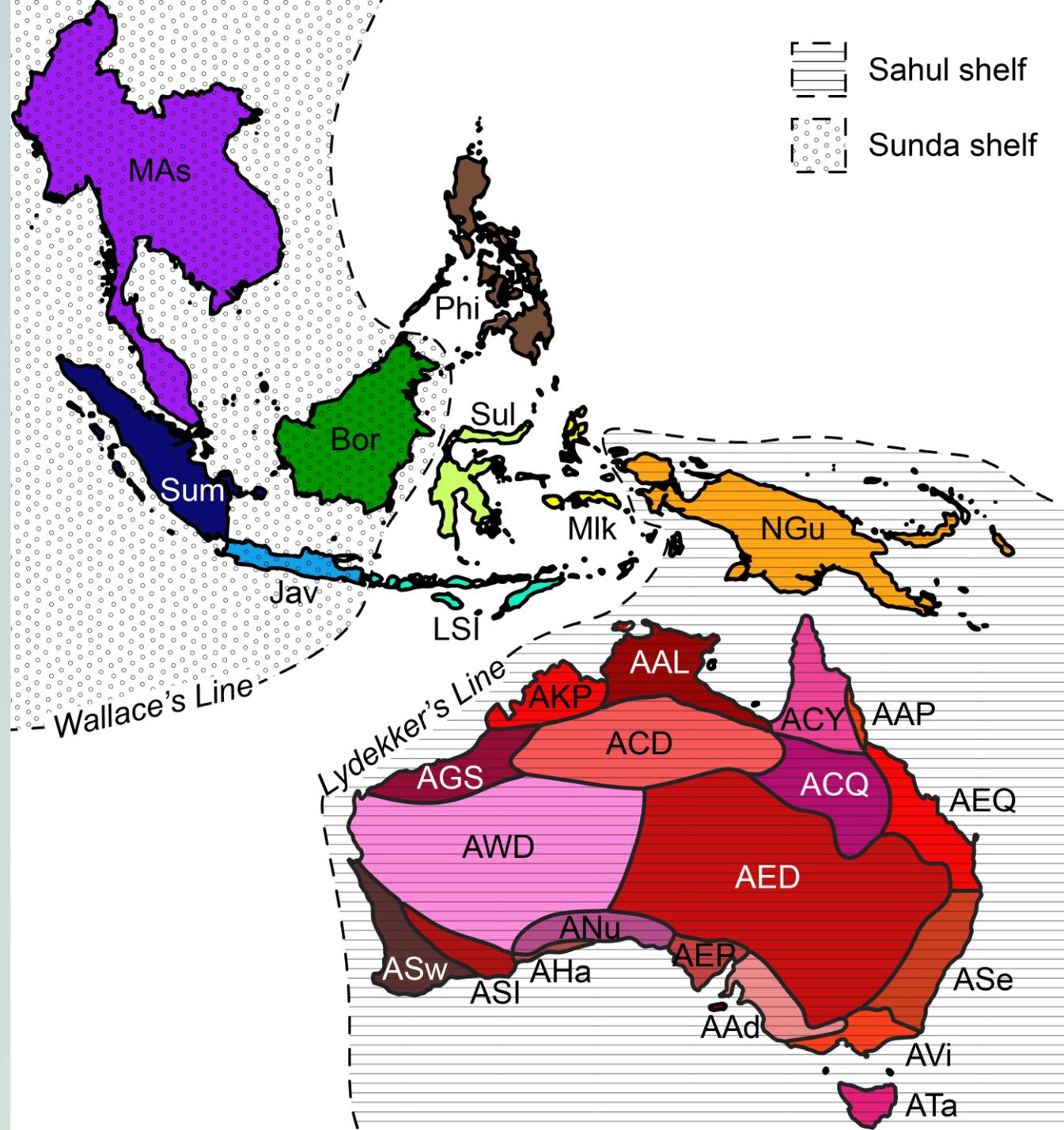


Making an interactive plant checklist of the Asian-Pacific Region



Ferry Slik
Universiti Brunei Darussalam





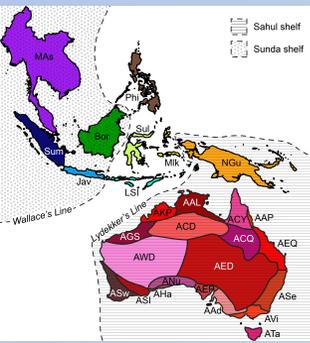
Checklist of the vascular flora of the Sunda-Sahul Convergence Zone

Elizabeth M. Joyce^{‡,§,||}, Kevin R. Thiele[¶], Ferry J.W. Slik[#], Darren M. Crayn^{‡,§,||}

The list was compiled from 24 flora volumes, online databases and unpublished plot data.

Taxonomic nomenclature was updated, and each species was coded into nested biogeographic regions.

The list includes 60,415 species in 5,135 genera and 363 families of vascular plants.



Elizabeth “Lizzy” Joyce
James Cook University



Table 2.

Summary of number of species, genera and families in each island group and continental shelf

Shelf	Island group	No. species	No. genera	No. families
Sahul	Australia	20430	2188	258
	New Guinea	15765	2231	275
	Sahul total	34229	3252	310
Wallacea	Lesser Sunda Islands	1488	793	169
	Maluku Islands	2590	1116	208
	Philippines	10212	2023	263
	Sulawesi	3094	1188	212
	Wallacea total	12802	2308	272
Sunda	Borneo	8458	1641	235
	Java	1676	837	180
	Mainland Asia	17861	3189	302
	Sumatra	2941	1035	202
	Sunda total	23331	3499	309
SSCZ	SSCZ total	60526	5135	363

Clipboard: Cut, Copy, Paste, Format Painter

Font: Calibri, 12, Bold, Italic, Underline, Text Color, Background Color

Alignment: Wrap Text, Merge & Center

Number: General, Currency, Percentage, Decimals

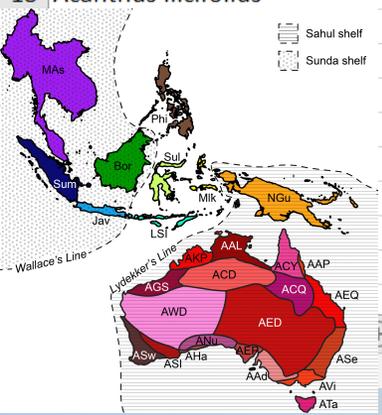
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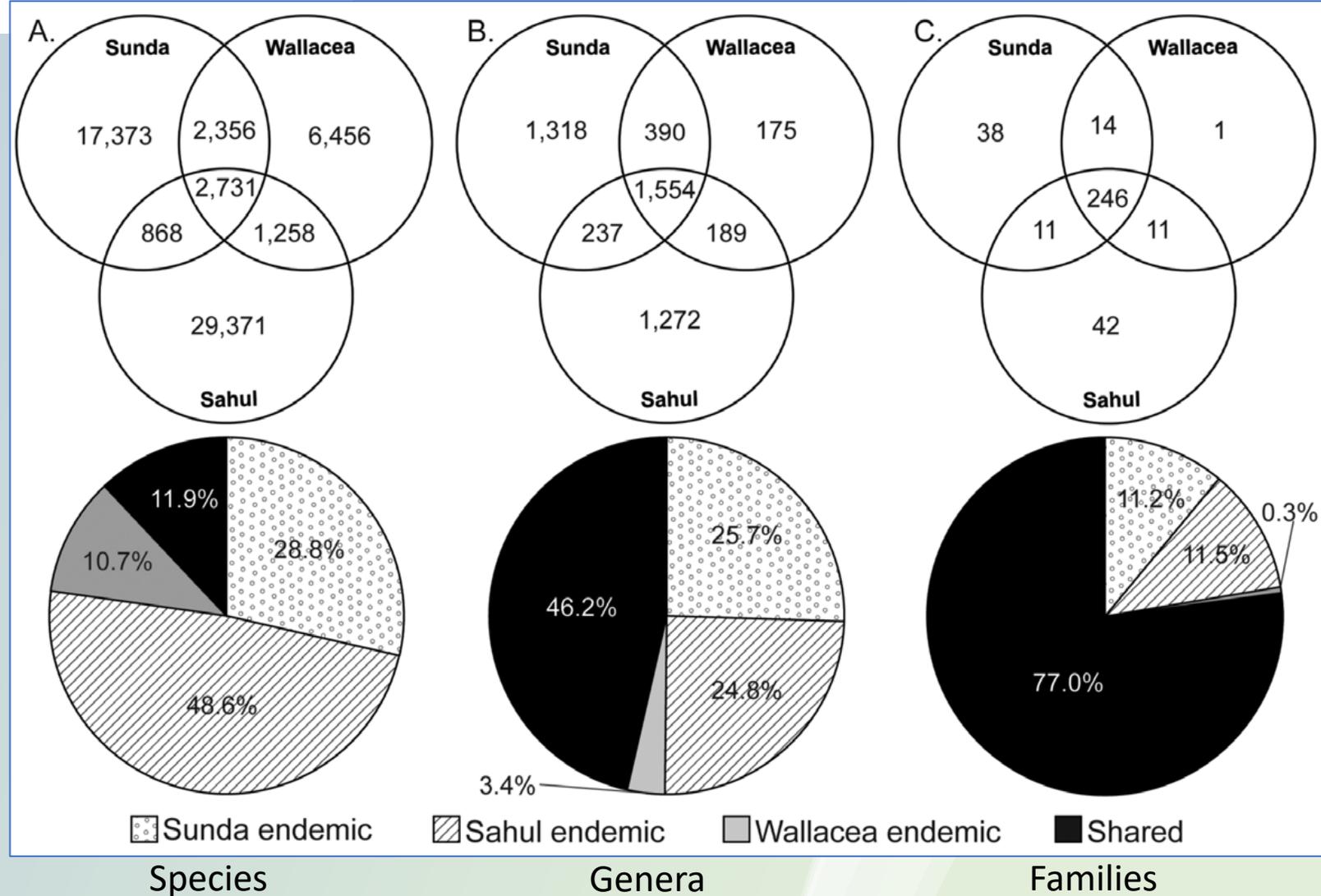
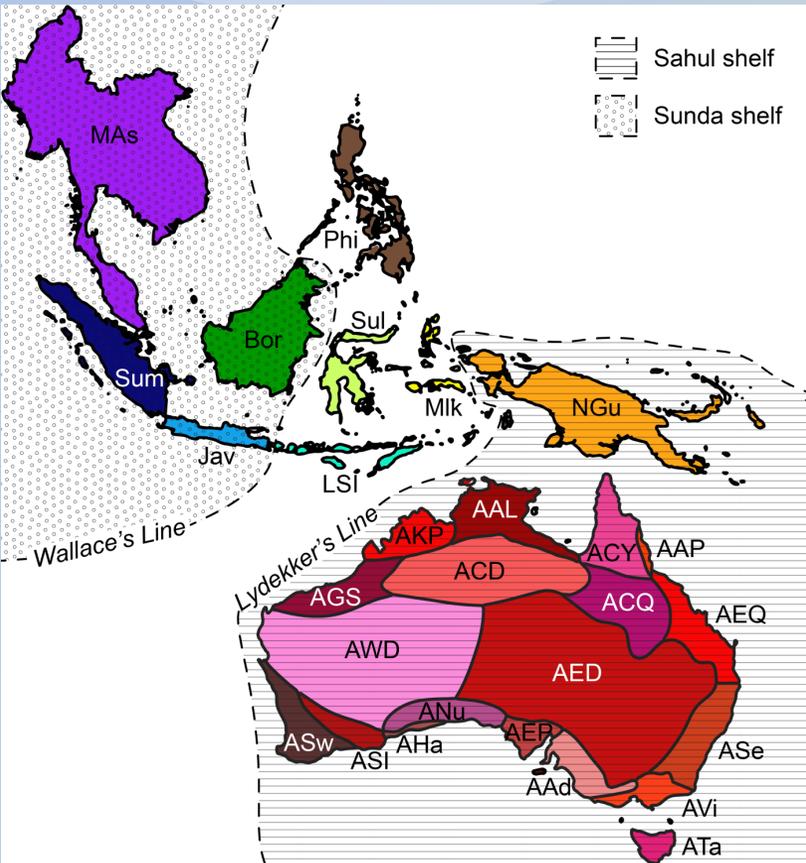
E146111 Zygophyllum

	A	B	C	D	E	F	G	H	I	J
1	Name	Family	Order	Major group	Genus	Species epithet	Country	Island	Shelf	MVA regions
2	Acanthus ebracteatus	Acanthaceae	Lamiales	Angiosperm	Acanthus	ebracteatus	Aus	Aus	Sah	AU Arnhem Land
3	Acanthus ebracteatus	Acanthaceae	Lamiales	Angiosperm	Acanthus	ebracteatus	Aus	Aus	Sah	AU Cape York Peninsula
4	Acanthus ebracteatus	Acanthaceae	Lamiales	Angiosperm	Acanthus	ebracteatus	Aus	Aus	Sah	AU Kimberley Plateau
5	Acanthus ebracteatus	Acanthaceae	Lamiales	Angiosperm	Acanthus	ebracteatus	Ind/PNG	NGu	Sah	NGu
6	Acanthus ebracteatus	Acanthaceae	Lamiales	Angiosperm	Acanthus	ebracteatus	Ind/Mly/Bru	Bor	Sun	Bor
7	Acanthus ebracteatus	Acanthaceae	Lamiales	Angiosperm	Acanthus	ebracteatus	Lao	MAs	Sun	MAs
8	Acanthus ebracteatus	Acanthaceae	Lamiales	Angiosperm	Acanthus	ebracteatus	Mly	MAs	Sun	MAs
9	Acanthus ebracteatus	Acanthaceae	Lamiales	Angiosperm	Acanthus	ebracteatus	Myn	MAs	Sun	MAs
10	Acanthus ebracteatus	Acanthaceae	Lamiales	Angiosperm	Acanthus	ebracteatus	Sin	MAs	Sun	MAs
11	Acanthus ebracteatus	Acanthaceae	Lamiales	Angiosperm	Acanthus	ebracteatus	Ind	Mlk	Wal	Mlk
12	Acanthus ebracteatus	Acanthaceae	Lamiales	Angiosperm	Acanthus	ebracteatus	Phi	Phi	Wal	Phi
13	Acanthus ilicifolius	Acanthaceae	Lamiales	Angiosperm	Acanthus	ilicifolius	Aus	Aus	Sah	AU Arnhem Land
14	Acanthus ilicifolius	Acanthaceae	Lamiales	Angiosperm	Acanthus	ilicifolius	Aus	Aus	Sah	AU Atherton Plateau
15	Acanthus ilicifolius	Acanthaceae	Lamiales	Angiosperm	Acanthus	ilicifolius	Aus	Aus	Sah	AU Cape York Peninsula
16	Acanthus ilicifolius	Acanthaceae	Lamiales	Angiosperm	Acanthus	ilicifolius	Aus	Aus	Sah	AU Eastern Queensland
17	Acanthus ilicifolius	Acanthaceae	Lamiales	Angiosperm	Acanthus	ilicifolius	Ind/PNG	NGu	Sah	NGu
18	Acanthus ilicifolius	Acanthaceae	Lamiales	Angiosperm	Acanthus	ilicifolius	Cam	MAs	Sun	MAs
		Acanthaceae	Lamiales	Angiosperm	Acanthus	ilicifolius	Ind/Mly/Bru	Bor	Sun	Bor
		Acanthaceae	Lamiales	Angiosperm	Acanthus	ilicifolius	Lao	MAs	Sun	MAs
		Acanthaceae	Lamiales	Angiosperm	Acanthus	ilicifolius	Mly	MAs	Sun	MAs
		Acanthaceae	Lamiales	Angiosperm	Acanthus	ilicifolius	Myn	MAs	Sun	MAs
		Acanthaceae	Lamiales	Angiosperm	Acanthus	ilicifolius	Sin	MAs	Sun	MAs
		Acanthaceae	Lamiales	Angiosperm	Acanthus	ilicifolius	Tha	MAs	Sun	MAs
		Acanthaceae	Lamiales	Angiosperm	Acanthus	ilicifolius	Vie	MAs	Sun	MAs
		Acanthaceae	Lamiales	Angiosperm	Acanthus	ilicifolius	Ind	Bor	Sun	Bor
		Acanthaceae	Lamiales	Angiosperm	Acanthus	ilicifolius	Bru	Bor	Sun	Bor



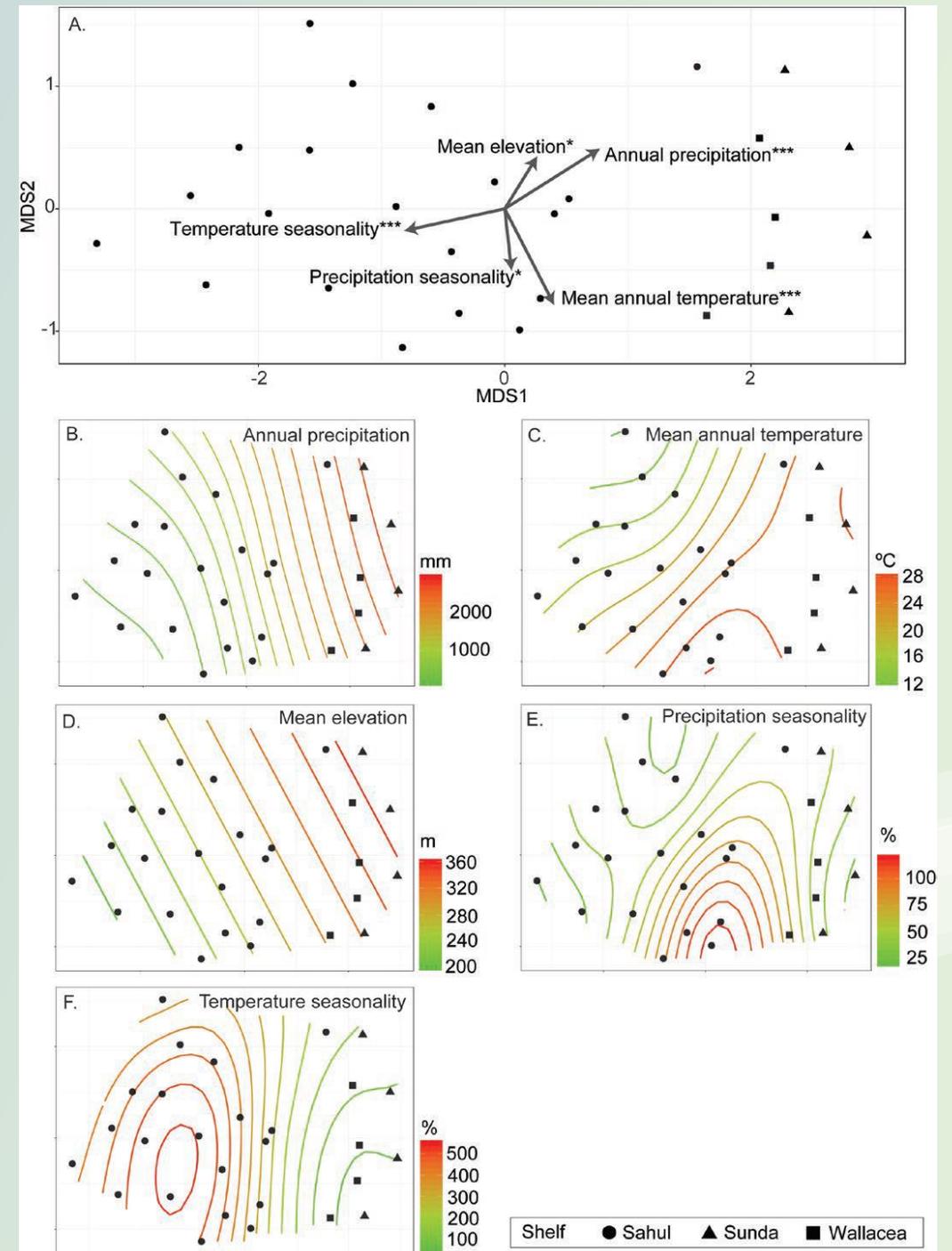
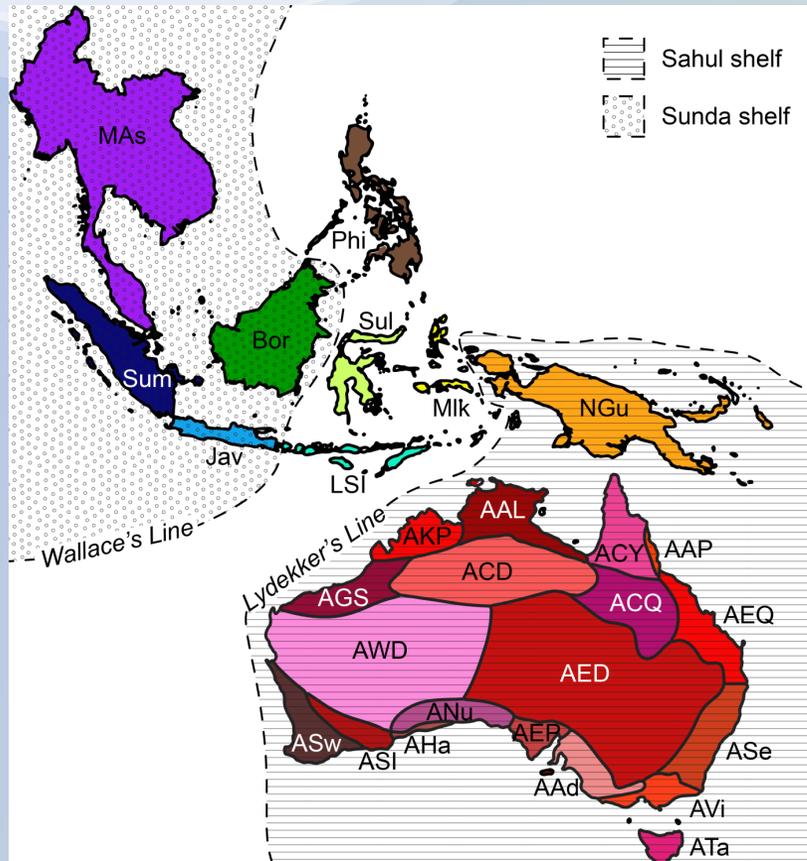
Plants will cross the lines: climate and available land mass are the major determinants of phytogeographical patterns in the Sunda–Sahul Convergence Zone

ELIZABETH M. JOYCE^{1,2,3,*}, KEVIN R. THIELE⁴, J. W. FERRY SLIK⁵ and DARREN M. CRAYN^{1,3}



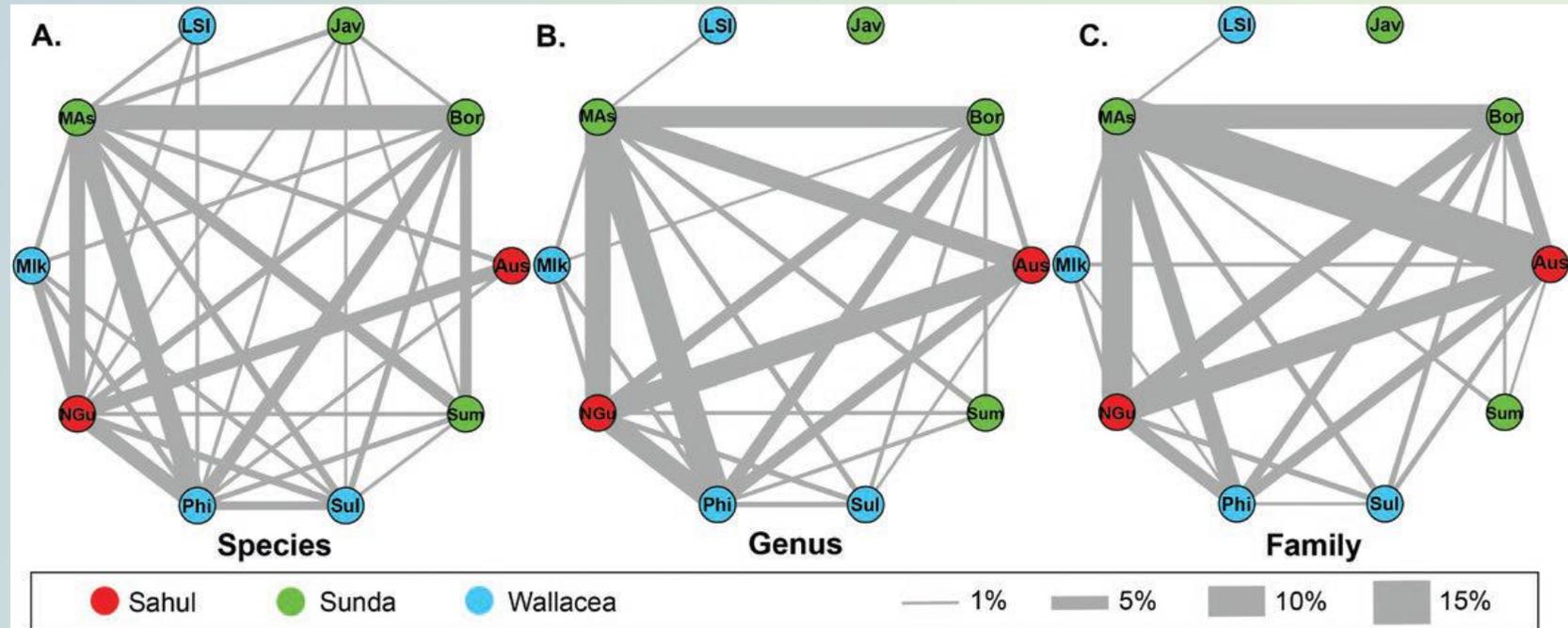
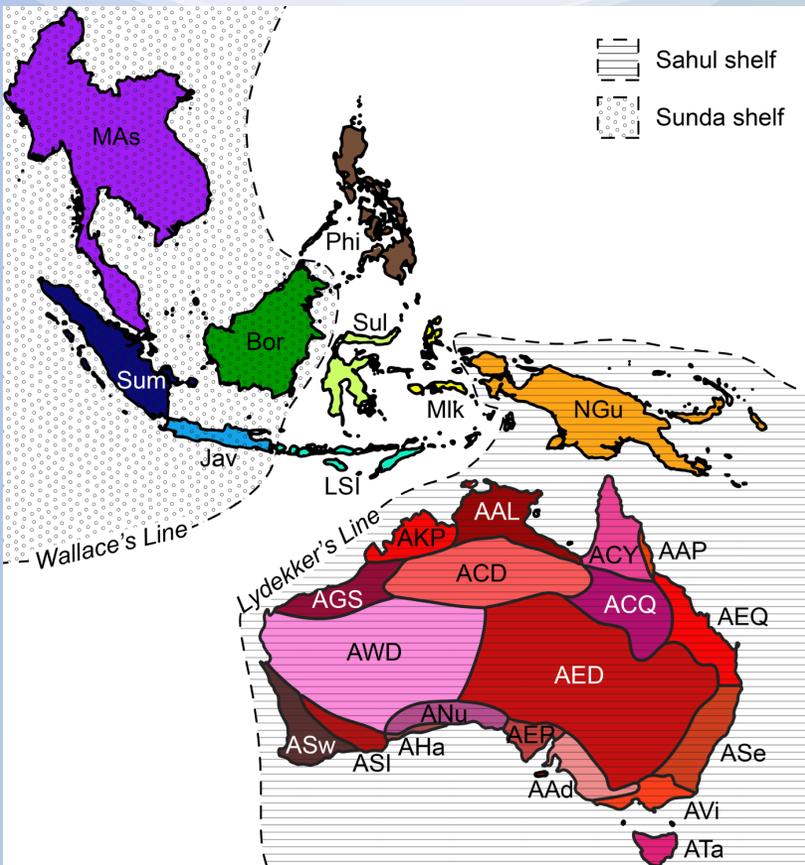
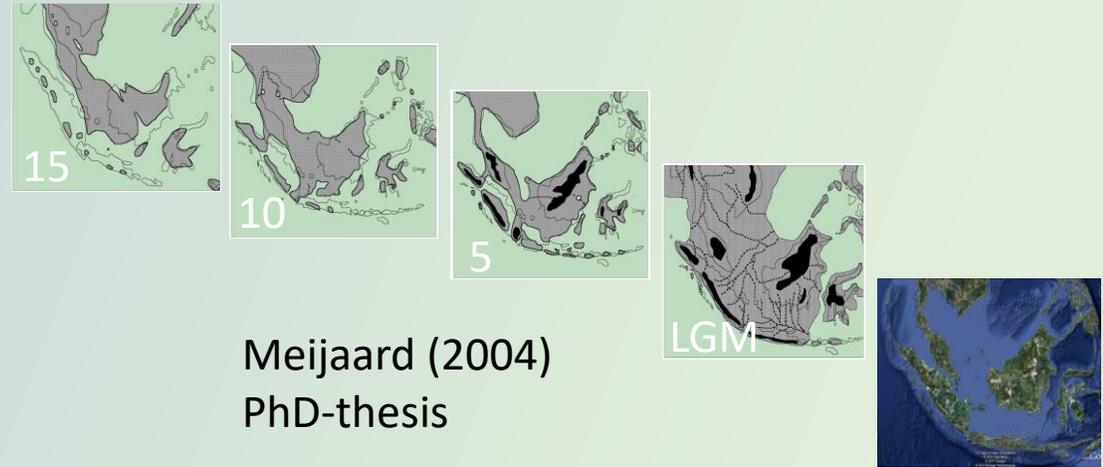
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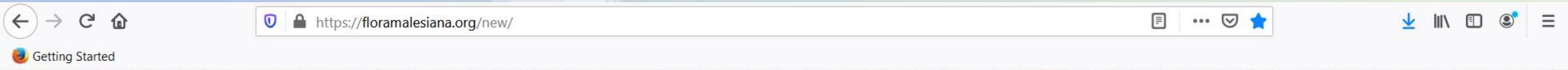


Plants will cross the lines: climate and available land mass are the major determinants of phytogeographical patterns in the Sunda–Sahul Convergence Zone

ELIZABETH M. JOYCE^{1,2,3,*}, KEVIN R. THIELE⁴, J. W. FERRY SLIK⁵ and DARREN M. CRAYN^{1,3}



The online interactive checklist



FLORA MALESIANA

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FLORA MALESIANA

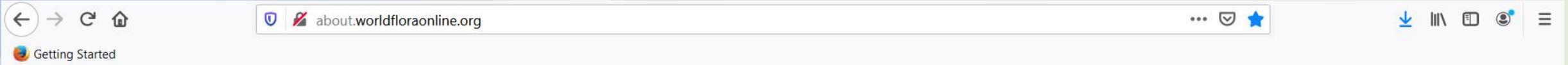
Naming, Describing And Inventorying The Flora Of Malesia

ABOUT

SOCIAL MEDIA



The online interactive checklist



Frequently Asked Questions	Taxonomic Expert Networks (TENs)	MOU Partners List
Documents	Floras Online	Data



An international initiative of the Global Partnership for Plant Conservation

[Home](#)

Welcome to the website of the World Flora Online Consortium

There are an estimated 400,000 species of vascular plants on Earth, with some 10 percent more yet to be discovered. These plants, both known and unknown may hold answers to many of the world's health, social, environmental and economic problems. A full inventory of plant life is vital if many threatened species are to be protected and if their full potential is to be realized before many of these species, and the possibilities they offer, become extinct.



In 2010, the updated Global Strategy for Plant Conservation (GSPC) of the U.N. Convention on Biological Diversity included as its first target (Target 1) the need for "An online flora of all known plants." With this background in mind, in January 2012 in St Louis, Missouri, U.S.A., representatives from four institutions: the Missouri Botanical Garden, the New York Botanical Garden, the Royal Botanic Garden Edinburgh, and the Royal Botanic Gardens, Kew—all members of the Global Partnership for Plant Conservation (GPPC) took the initiative to meet and discuss how to achieve GSPC Target 1 by 2020. The meeting resulted in a proposed outline of the scope and content of a World Flora Online, as well as a decision to form an international consortium of institutions and organizations to collaborate on providing that content.

News

World Flora Online Council Meetings - July & September, 2020

Due to the COVID-19 pandemic, the World Flora Council meeting planned in May, 2020 in Meise, Belgium was cancelled.

The 14th and 15th World Flora Online Council Meetings were held online in July and September.



The online interactive checklist

← → ↻ 🏠 www.worldfloraonline.org/classification;jsessionid=5C45A9718DAA23619D8A9A724B31AFFA ⋮ 🛡️ ☆

Getting Started

 **World Flora Online**
A Project of the World Flora Online Consortium

[Home](#) [Browse](#) [About](#) [Contact](#) [Data](#)   [Sign in](#)

Classification

- ✚ Acorales
- ✚ Alismatales
- ✚ Amborellales
- ✚ Andreaeales
- ✚ Andreaebryales
- ✚ Anthocerotales
- ✚ Apiales
- ☐ Aquifoliales
 - ☐ Aquifoliaceae
 - ✚ Ilex
 - ☐ Nemopanthus
 - ✚ Nemopanthus ambiguus
 - ✚ Nemopanthus canadensis
 - ✚ Nemopanthus collinus
 - ✚ Nemopanthus mucronatus
 - ✚ Prinos
 - ✚ Cardiopteridaceae
 - ✚ Helwingiaceae
 - ✚ Phyllonomaceae
 - ✚ Stemonuraceae
- ✚ Archidiales
- ✚ Arecales
- ✚ Asparagales
- ✚ Asterales
- ✚ Austrobaileyales
- ✚ Bartramiales
- ✚ Berberidopsidales
- ✚ Blasiales
- ✚ Boraginales



Key page available for the taxon. Right click to access the key page.

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Species page

- Species name, author, bibliography
- Synonyms
- Classification (phylogeny)
- DNA sequence data (GENBANK)
- Pictures
- Life form
- Distribution map
- Habitat
- Threat status
- Functional traits (TRY database)

Everything should be downloadable

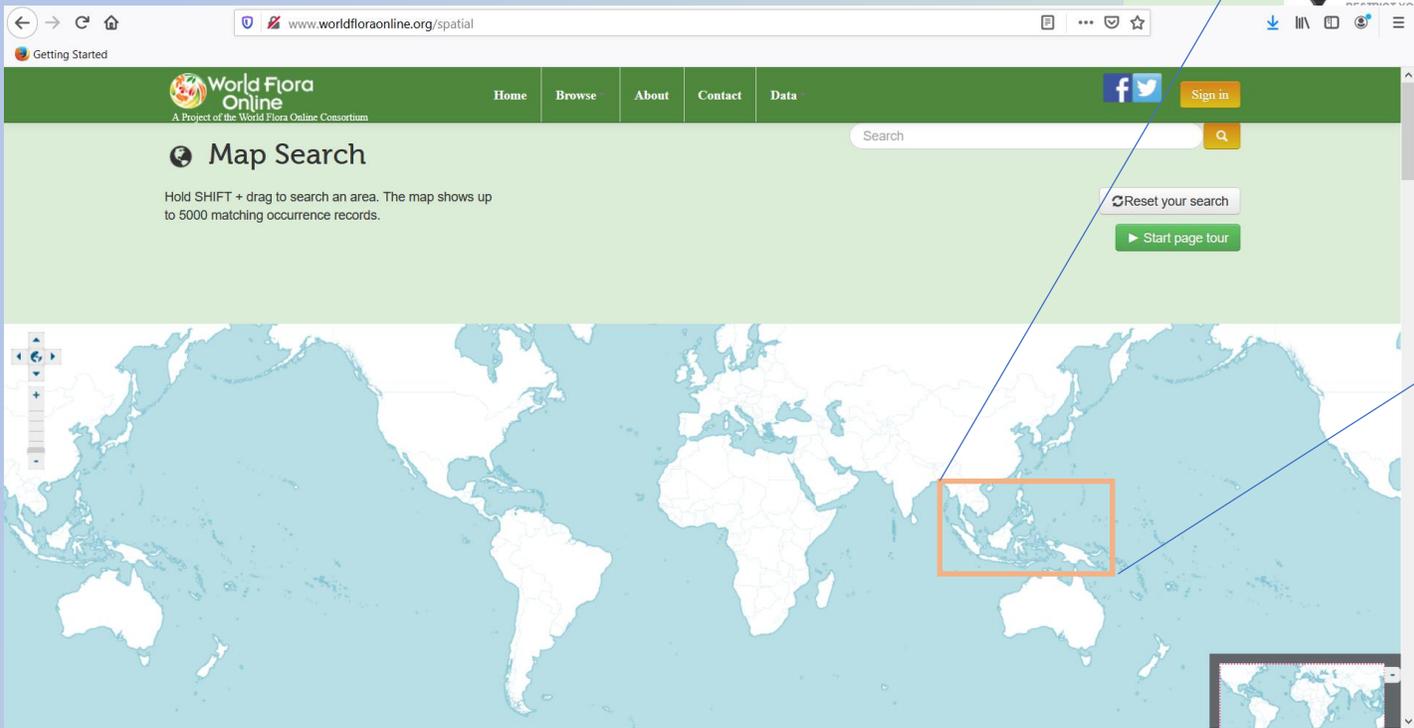
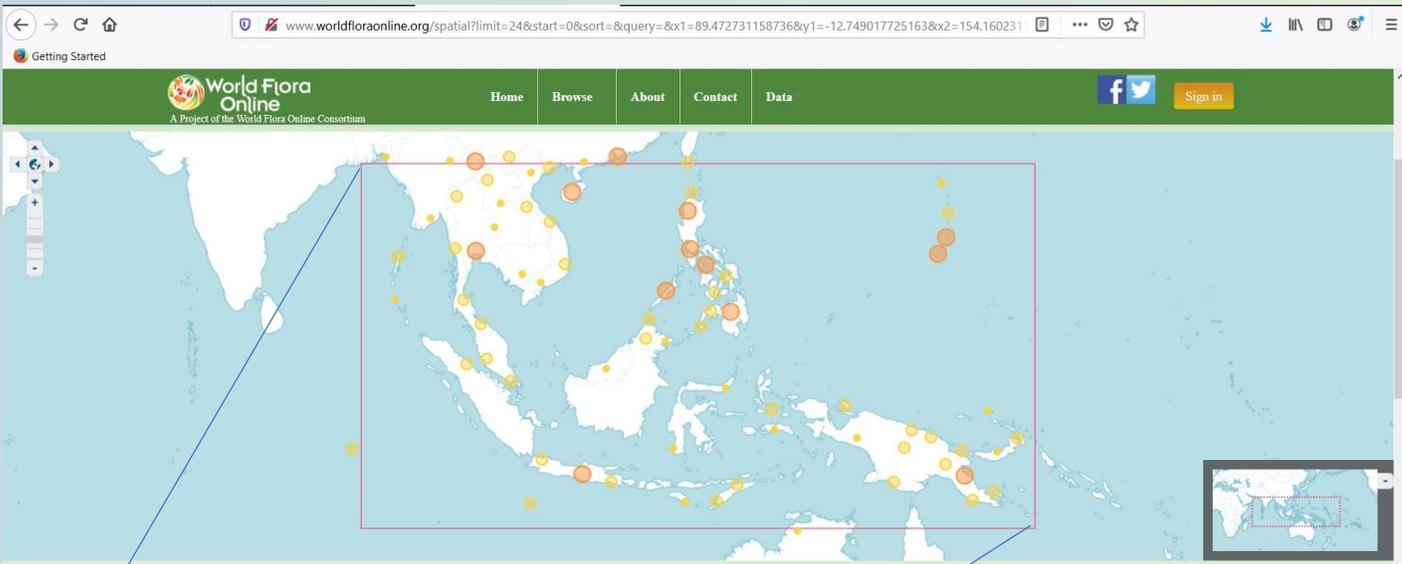
The screenshot shows the World Flora Online website interface. At the top, there is a navigation bar with 'Home', 'Browse', 'About', 'Contact', and 'Data' links, along with a search bar and social media icons. The main content area is titled 'wfo-0001285355' and features the species name *Nemopanthus ambiguus* (Michx.) Alph. Wood. Below the name, it indicates the source as 'Class-book Bot. (ed. 1861)' and notes that the name is reported by *Aquifoliaceae* as an accepted name in the genus *Nemopanthus* (family *Aquifoliaceae*).

The page is organized into several sections:

- Synonyms:** Lists *Prinos ambiguus* Michx., provided by [A] Aquifoliaceae.
- Bibliography:** Lists [1] Class-book Bot. (ed. 1861).
- Classification:** Shows the taxonomic hierarchy: *Angiosperms*, *Aquifoliales* Sentf., *Aquifoliaceae* Bercht. & J.Presl, *Nemopanthus* Raf., and *Nemopanthus ambiguus* (Michx.) Alph. Wood, provided by [A] Aquifoliaceae and [B] World Flora Online consortium.
- Data:** Includes fields for Habitat, Life Form, IUCN Red List Status, and External Links.
- External Links:** Lists NCBI, BOLD Systems, GBIF, and IPNI.
- Taxon Name Source Link:** Provides a link to the plant list record: <http://www.theplantlist.org/pl1.1/record/tr-50327434>.

At the bottom, there is an 'Information From' section with copyright information for the World Flora Online Data (2017 and 2018) under CC0 1.0 Universal (CC0 1.0) Public Domain.

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Showing 1 to 24 of 1381613 results

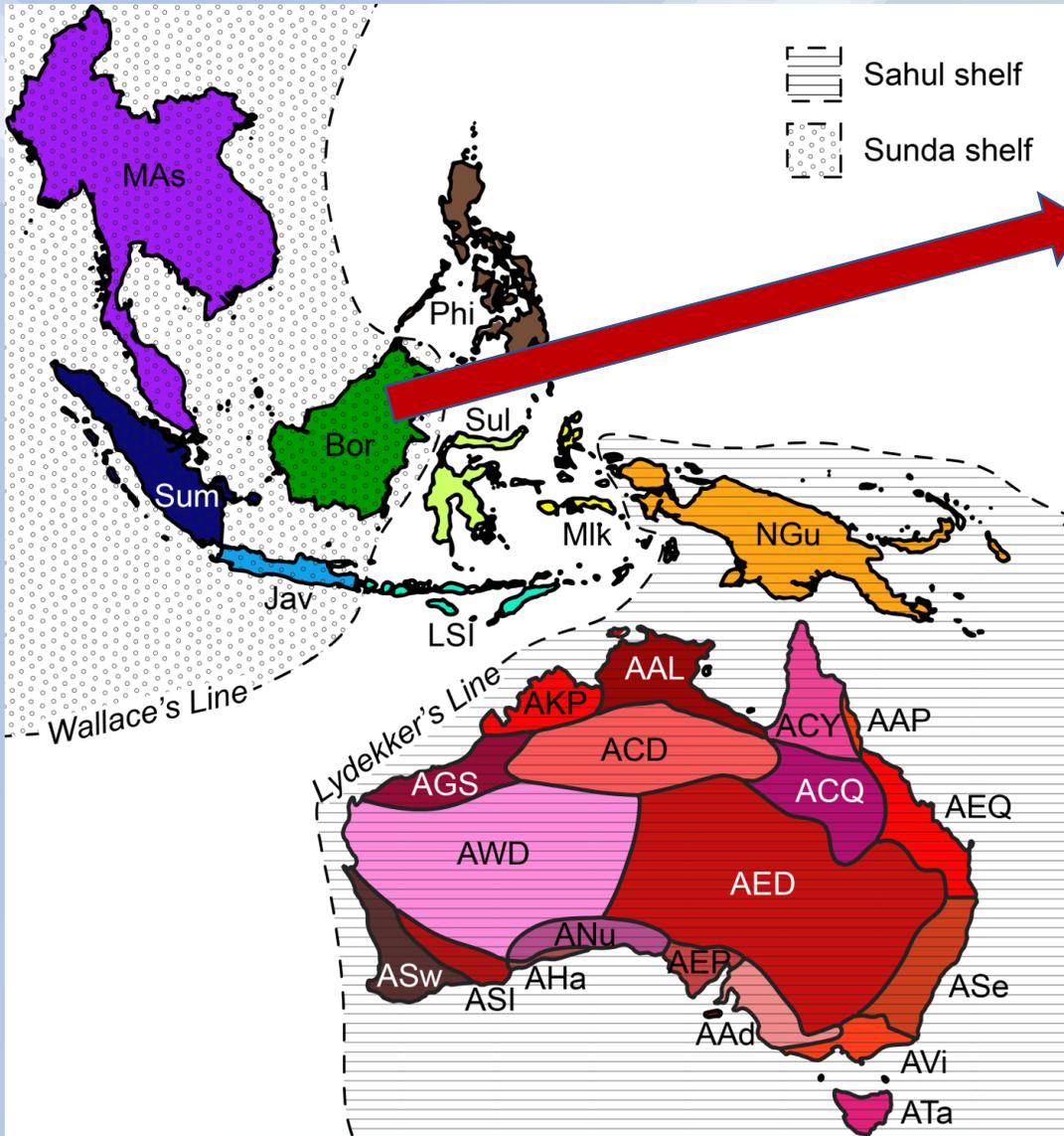
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Sort by

-  **Gnaphalium gerberifolium** Sch.Bip.
Bot. Zeitung (Berlin) 3
Status: Synonym of [Helichrysum nudifolium \(L.\) Less.](#)
Rank: Species
Family: Compositae
-  **Hieracium villiceps** Brenner
in Mem. Soc. Fauna Flora Fenn., 1891-92 (1892) 114.
Status: Ambiguous
Rank: Species
Family: Compositae
-  **Helipterum humile** var. **pinifolium** (Lam.) DC.
Status: Synonym of [Edmondia pinifolia \(Lam.\) Hilliard](#)
Rank: Variety
Family: Compositae
-  **Chrysanthemum frutescens** var. **canariae** Christ
Status: Ambiguous
Rank: Variety
Family: Compositae

No image available

The online interactive checklist



VascularFloraSSCZ_v1.1 - Excel

Name	Family	Order	Major group	Genus	Species epithet	Country	Island	Shelf	MVA
6	Acanthaceae	Lamiales	Angiosperm	Acanthus	ebracteatus	Ind/Mly/Bru	Bor	Sun	Bor
19	Acanthaceae	Lamiales	Angiosperm	Acanthus	ilicifolius	Ind/Mly/Bru	Bor	Sun	Bor
26	Acanthaceae	Lamiales	Angiosperm	Acanthus	ilicifolius	Ind	Bor	Sun	Bor
27	Acanthaceae	Lamiales	Angiosperm	Acanthus	ilicifolius	Bru	Bor	Sun	Bor
47	Acanthaceae	Lamiales	Angiosperm	Andrographis	paniculata	Ind/Mly/Bru	Bor	Sun	Bor
67	Acanthaceae	Lamiales	Angiosperm	Asystasia	gangetica	Ind/Mly/Bru	Bor	Sun	Bor
103	Acanthaceae	Lamiales	Angiosperm	Avicennia	marina	Ind/Mly/Bru	Bor	Sun	Bor
109	Acanthaceae	Lamiales	Angiosperm	Avicennia	marina	Bru	Bor	Sun	Bor
118	Acanthaceae	Lamiales	Angiosperm	Avicennia	officinalis	Ind/Mly/Bru	Bor	Sun	Bor
128	Acanthaceae	Lamiales	Angiosperm	Barleria	cristata	Ind/Mly/Bru	Bor	Sun	Bor
165	Acanthaceae	Lamiales	Angiosperm	Borneacanthus	grandifolius	Ind/Mly/Bru	Bor	Sun	Bor
198	Acanthaceae	Lamiales	Angiosperm	Cosmianthemum	dido	Ind/Mly/Bru	Bor	Sun	Bor
199	Acanthaceae	Lamiales	Angiosperm	Cosmianthemum	knoxiifolium	Ind/Mly/Bru	Bor	Sun	Bor
201	Acanthaceae	Lamiales	Angiosperm	Cosmianthemum	magnifolium	Ind/Mly/Bru	Bor	Sun	Bor
202	Acanthaceae	Lamiales	Angiosperm	Cosmianthemum	subglabrum	Ind/Mly/Bru	Bor	Sun	Bor
273	Acanthaceae	Lamiales	Angiosperm	Dyschoriste	oligosperma	Ind/Mly/Bru	Bor	Sun	Bor
350	Acanthaceae	Lamiales	Angiosperm	Gymnostachyum	subacaule	Ind/Mly/Bru	Bor	Sun	Bor
509	Acanthaceae	Lamiales	Angiosperm	Justicia	gendarussa	Ind/Mly/Bru	Bor	Sun	Bor
604	Acanthaceae	Lamiales	Angiosperm	Nelsonia	canescens	Ind/Mly/Bru	Bor	Sun	Bor
624	Acanthaceae	Lamiales	Angiosperm	Pachystrobilus	involutcratus	Ind/Mly/Bru	Bor	Sun	Bor
670	Acanthaceae	Lamiales	Angiosperm	Pseuderanthemum	crenulatum	Ind/Mly/Bru	Bor	Sun	Bor

AustralasiaList

13152 of 146362 records found

The online interactive checklist

Challenges

1. Financial and institutional support
2. Getting the data together
3. Keeping the data updated
4. Presenting the data

Opportunities

1. International collaboration
2. Focused effort
3. Stimulate collection efforts
4. Stimulate taxonomic work
5. Collaboration between taxonomists and Ecologists

Use of taxonomic knowledge by the general public

Better awareness of the value of taxonomic work

Special thanks!



Lizzy Joyce
James Cook University



Darren Crayn
James Cook University



Kevin Thiele
University of Western Australia