META DATA – list of data used, as found in data folder at

Relevant column names within datasets used and created:

australian_flora/genus_level_endemism_estimate.csv

All Australian vascular plants genera – sourced from 2022 Big Data cohort. Lists all Australian genera, and provides number of *Australian* species, and proportion of endemism of *Australian* species.

genus	Genus of interest
prop_endemic	Proportion of endemism (number of endemic species / total number of species) *note: does not include species found exclusively outside Australia
species_number	Number of Australian species within genus

ala/all_ala.csv & ala/locations_endemic_genera.csv (dropbox link in data folder)

Country	Country of species occurrence record
countryCode	Abbreviation of country
Species	Species names
Genus	Genus name
decimalLatitude	Latitude (in decimal format)
decimalLongitude	Longitude (in decimal format)

other_countries_flora/new_caledonia_checklist.csv

famille	Plant family name
nom_taxon	Scientific name record including author names
Genre	Plant genus name
Synonyme	Taxonomic synonyms
Remarque	Notes, usually references

other_countries_flora/papua_new_guinea_checklist.csv

Family	Plant family name
Genus	Plant genus name
Sp1	Species name
TaxStat	Taxonomic status of name: "Accepted", "Synonym", "Inclusive", "Genus level", "misap", "Superfluous", "aut"
Accepted	If Synonym, gives accepted taxonomic name
Ecology	Nature of plant occupation: "Invasive", "Endemic", "Naturalised", "Cultivated", "Indigenous", "Not Indigenous"

other_countries_flora/nz_seed_plants_checklist.tsv +
other_countries_flora/nz_ferns_lycophytes_checklist.tsv

NameScientific	Scientific name

TaxonRank	Taxon rank: "species", "genus", "subspecies"
Origin	Nature of plant occupation: "Exotic", "Endemic", "Non-endemic", "Indigenous"
Phyla	Plant phylum name
Class	Plant class name
Order	Plant order name
Family	Plant family name
Genus	Plant genus name

other_countries_flora/sunda_sahul_checklist.csv

Name	Taxonomic name (genus + species)
Family	Plant family name
Order	Plant order family
Major group	Plant major order group: "Angiosperm", "Gymnosperm", "Pteridophyte"
Genus	Plant genus name
Species_epithet	Plant species name
Country	Country of record

REDLIST_Folder/simple_summary.csv (relevant columns)

genusName	Plant genus name
speciesName	Species name
redlistCategory	Redlist category

wcvp/wcvp_distribution.csv & wcvp/wcvp_names.csv (relevant columns) (download link in data folder)

plant_name_id	Scientific plant name
genus	Plant genus name
region	Region of distribution

OUTPUT DATA

data_out/register_of_endemic_plant_genera.csv

genus	Plant genus name
species_number	Number of species within genus
endemism_status	Status of endemism

data_out/all_genera_with__threatened_status.csv

genus	Plant genus name
endemism_status	Status of endemism
Least Concern	IUCN threatened status – count data within columns indicates number of species within genera with this threat status
Critically Endangered	IUCN threatened status – count data within columns indicates number of species within genera with this threat status
Endangered	IUCN threatened status – count data within columns indicates number of species within genera with this threat status

Near Threatened	IUCN threatened status – count data within columns indicates number of species within genera with this threat status
Vulnerable	IUCN threatened status – count data within columns indicates number of species within genera with this threat status
Data Deficient	IUCN threatened status – count data within columns indicates number of species within genera with this threat status

data_out/all_genera_with_traits.csv

genus	Plant genus name
plant_growth_form	Most commonly recorded growth form of genus – tree, shrub, herb etc
dispersal_syndrome	Most commonly recorded dispersal syndrome of genus – barochory, zoochory, anemochory, hydrochory etc
plant_height	Mean of all recorded plant heights of genera
seed_dry_mass	Mean of all record dry seed mass of genera