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Research Datasets

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Applying surrogate species presences to correct sample bias in species distribution models; a case study using the Pilbara population of the Northern Quoll [dataset]

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Supplementary data file 1:

GIS data sets used in variable assessments and map of Pilbara vegetation systems.

Table 1. GIS data sets used in variable assessments. Bold indicates data-base and URL and italics indicate derived data.

WorldClim
(http://www.worldclim.org/)
BIO1 = Annual Mean Temperature
BIO2 = Mean Diurnal Range (Mean of monthly (max temp - min temp))
BIO3 = Isothermality (BIO2/BIO7) (* 100)
BIO4 = Temperature Seasonality (standard deviation *100)
BIO5 = Max Temperature of Warmest Month
BIO6 = Min Temperature of Coldest Month
BIO7 = Temperature Annual Range (BIO5-BIO6)
BIO8 = Mean Temperature of Wettest Quarter
BIO9 = Mean Temperature of Driest Quarter
BIO10 = Mean Temperature of Warmest Quarter
BIO11 = Mean Temperature of Coldest Quarter
BIO12 = Annual Precipitation
BIO13 = Precipitation of Wettest Month
BIO14 = Precipitation of Driest Month
BIO15 = Precipitation Seasonality (Coefficient of Variation)
BIO16 = Precipitation of Wettest Quarter
BIO17 = Precipitation of Driest Quarter
BIO18 = Precipitation of Warmest Quarter
BIO19 = Precipitation of Coldest Quarter
Climond
(https://www.climond.org/)
BIO34=Mean moisture index of warmest quarter
Climate Change in Australia (CSIRO)
(http://www.climatechangeinaustralia.gov.au/en/)
Relative Humidity Wettest Quarter
ESRI Online Databases
(http://www.esri.com/software/arcgis/arcgisonline/arcgis-open-data)

blacenames Landgate https://www2.landgate.wa.gov.au/bmvf/app/waatlas/) Western Australian Fire Frequency Pastoral Property (vesting) Wodis https://earthdata.nasa.gov/) Fire Scar Modis Burndate Noramalised Digital Vegetation Index (NDVI) Near Infrared Spectrography (NIRS) Geoscience Australia http://www.ga.gov.au/search/index.html#/) Fotal Magnetic Intensity Gravity Anomaly Land Tenure Digital Elevation Model Slope Ruggedness Water Courses Euclidean Distance to Water Courses Water Bodies Euclidean Distance to Water Bodies Geology Land cover Hydrology of Australia
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Water Bodies Euclidean Distance to Water Bodies Geology Land cover
Euclidean Distance to Water Bodies Geology Land cover
Geology Land cover
Land cover
Hydrology of Australia
Soils Mapping of Australia
Naturemap
http://naturemap.dpaw.wa.gov.au/)
NQ Presences
CWR Terrestrial Mammal Presences
NQ Absences
Unites States Geological Survey (USGS)
http://earthexplorer.usgs.gov/)
Landsat Mosaic
NDVI Colourised
Department of Agriculture and Food WA (DAFWA)
https://www.agric.wa.gov.au/land-use-planning/maps-and-data)

Veg= Beards Vegetation Associations

Vegag= Department of Agriculture and Food Western Australia

Vegetation Mapping (Rangelands)

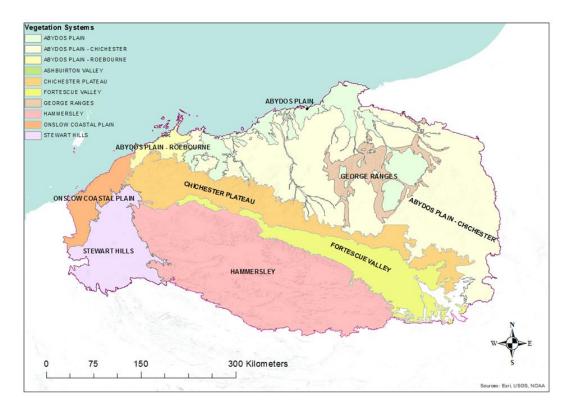


Figure 1. Pilbara vegetation systems. Taken from the Pilbara Pre-European Vegetation data set, Courtesy of the Western Australian Department of Parks and Wildlife