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| **Title** | Flora Maxent modelling |
| **File identifier** | The unique identifier for the metadata file |
| **Abstract** | Flora Maxent modelling refer to combination outputs dependent on known species presence-only occurrence in the landscape, the species’ relationship with environmental variables (covariates) such as temperature, rainfall, and topography; and its predicted occurrence based on covariate analysis. Models do not predict actual occupancy, but rather habitat suitability: confounding factors such as inter-species competition, geographical barriers and disturbance events play a significant role in species occurrence, and are not considered in Maxent.  Maxent analysis is based on software developed by Steven Phillips (<https://biodiversityinformatics.amnh.org/open_source/maxent/> and references therein).  Derivation of flora distribution surfaces associated with this metadata are described in detail in the NRC publication ‘NSW Forest Monitoring and Improvement Program: Final Report. Project 2: Baselines, drivers and trends for species occupancy and distribution.’ |
| **Contact** | Emeritus Professor Nick Reid and Dr Ross Jenkins, University of New England, School of Environmental and Rural Science. |
| **Purpose** | The dataset was created as part fulfillment for the NRC project ‘NSW Forest Monitoring and Improvement Program: Final Report. Project 2: Baselines, drivers and trends for species occupancy and distribution.’ |
| **Jurisdictions** | The University of New England |
| **Geographic Bounding Box** | North −28 degrees; South −37.5 degrees; West 147 degrees; East 153.5 degrees |
| **Lineage** | Species occurrence data was sourced from Bionet\*, based on systematic Forestry Commission of NSW and NPWS surveys conducted between 1987 and 2000 [cf. NPWS (1994). Fauna of north-east NSW forests. (NSW National Parks and Wildlife Service]. Additional occurrence data from 1991–1998 was extracted from the Atlas of Living Australia. Covariate data was sourced in the main from the State Vegetation Type Map (SVTM) Modelling Grid Collection (<https://datasets.seed.nsw.gov.au/dataset/svtm-modelling-grid-collection>) with additional data as described in ‘NSW Forest Monitoring and Improvement Program: Final Report. Project 2: Baselines, drivers and trends for species occupancy and distribution.’  Model outputs (statistical analyses and predictive surfaces) were generated using the software developed by Steven Phillips (<https://biodiversityinformatics.amnh.org/open_source/maxent/>  \*The systematic survey plot list used to extract the Bionet records is available as a separate file named ‘plotlist\_5488\_31Oct2020.csv’ |
| **Extent** | The temporal extent of the species occurrence was limited to 1987–2000 for systematic data, and 1991-1998 for ALA data. |
| **Distribution Format** | Raster (ESRI Geodatabase) |
| **Keyword** | Flora, RFA, Maxent modelling |
| **Maintenance and Update Frequency** | Not planned |
| **Use Limitation** | Maxent generates probabilistic species predictive habitat surfaces, and does not imply species presence at any particular location. Modelling is restricted to the eastern NSW RFA areas. |
| **Resolution** | 90 m |
| **DQ Completeness** | Complete |
| **Reference System** | GDA94 |
| **Topic Category** | Biota |
| **Metadata Date** | 2021-12-16 |
| **Date Created** | 2021-06-22 |
| **Date Revised** | 2021-06-22 |
| **Date Published** | 2021-11-16 |