

	stream and catchment environment that was developed by the Australian National University (ANU) in 2011 and updated in 2012. The data is supplied as part of the supplementary Geofabric products which is associated with the 9 second DEM derived streams and the National Catchment Boundaries based on 250k scale stream network. 30 Stream variables were assessed for the modelling. River Styles® provides a high resolution categorical classification of river character within a nested hierarchy of criteria based on valley setting, channel planform, geomorphic units, and bed material. The NSW Office of Water compiled a spatial dataset of River Styles® classifications for a large number of the waterways of NSW. From 65 River Style® categories we generated two new fields representing Planform (34 categories) and Substratum (8 categories) for each stream segment. River Style® planform and substratum categories were then assigned to each Geofabric segment. MaxEnt 3.3.3 is a widely used species distribution modelling program that utilises presence records to generate probabilities of occurrence based on a suite of environmental variables quantified across the area of interest. It was used to model the current geographic distribution of each listed threatened freshwater aquatic species or population. We utilised logistic output to plot the predicted distribution of each species. This output equates to a probability that the species will be observed in each river reach, given the environmental conditions where the species is known to occur. For this mapping, above 33% probability was considered predicted presence. Only stream segments with a modelled average daily flow of more than five megalitres were selected for output. In addition, predicted separate populations were connected by manual interpretation. The predicted values for each river reach were converted from the Geofabric framework to the higher resolution 2013 NSW Strahler Stream Order Hydroline.
Dataset Uses	 The dataset has a number of primary functions including but not limited to; spatially representing the status of fish communities at river reach scale across NSW providing additional support to strategic planning frameworks
Current Status	to ensure they effectively integrate biodiversity considerations into planning and decision making processes
Current Status	The Eel Tailed Catfish Distribution in the Murray Darling Basin NSW dataset was produced as part of the NSW Fish Community Status 2015.
Standards & Specifications	ANZLIC Metadata Profile: An Australian/New Zealand Profile of AS/NZS ISO 19115:2005, Geographic information – Metadata

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Metadata	See: <u>NSW Department of Primary Industries (2016), Fish</u> communities and threatened distributions of NSW – Final Report.
Updates	As required.
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