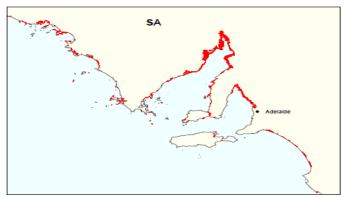
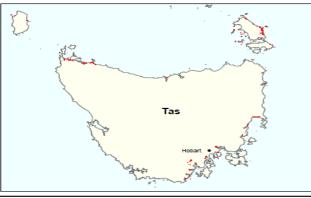


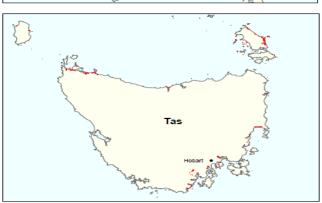
Distribution

- Narrow coastal margin in subtropical and temperate climatic zones south of 26°S latitude in WA (23°S eastern).
- 6 States: Queensland, NSW, Victoria, Tasmania, SA, SW WA
- On some islands
- Shark Bay stated N limit (Carnarvon mapped as EPBC limit)
- Southern/eastern extent in WA: estuaries near Esperance
- Most significant: estuaries of SCP (Swan-Canning, Peel-Harvey, Leschenault and Vasse-Wonnerup).
- DPaW current mapping 246 occs, total ~4,300ha

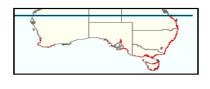












DRAFT

Subtropical and Temperate Coastal Saltmarsh Ecological Community

Legend

Major localities

Tropic of Capricorn

Subtropical and Temperate Coastal Saltmarsh EC





Department of Sustainability, Environment, Water, Population and Communities

Method and Source:

Method and Source:

Network of the Method Source:

Method

Department of Environment and Resource Management, © Guerenland Government, For EA, a number of source codes selected within Zow no cossiline, and for Tas, source codes (AHL, ARS sendASS) from National Vegetation information System (NVIS) Version 4.1, NVIS date and Major Versipation Corospa and Solgropous were compiled by Version 4.1, NVIS date and Major Versipation Corospa and Solgropous were compiled by date provided by the State and Territory and Commonwealth organisations responsible for egidation mapping and management, 2011. Magoed "Sattoward-State" for geomorphic habitation-viceoments (faciles) for Auditellan habitation propriet of the Commonwealth organisation control of habitation propriets of the Commonwealth organisation control habitation propriets of the Commonwealth organisation of habitation propriets of the Commonwealth of Australia (Ozcossa, Geoscience Australia) 2006.

Polygon outlines have been enlarged to improve visibility and are not an accurate representation of reality.

Localities 1:1,000,000, © Commonwealth of Australia (Geoscience Australia) 2006. Coasiline 1:100:000 © Commonwealth of Australia (Geoscience Australia) 2003. Geodetic Inse 1:100,000 © Commonwealth of Australia (Geoscience Australia) 2006.





Caveat: I write of the present of the map has been provided by a range of groups and the folial field server effort has been made to ensure accuracy and completeness, no guarantee is given, nor responsibility taken by the Commonwealth for errors or missions, and the Commonwealth does not accept recognizibly in respect of any confidenting herien. The map has been collected from a range of sources, with data at validous residualists. Data used are assumed to be correct as received from the data

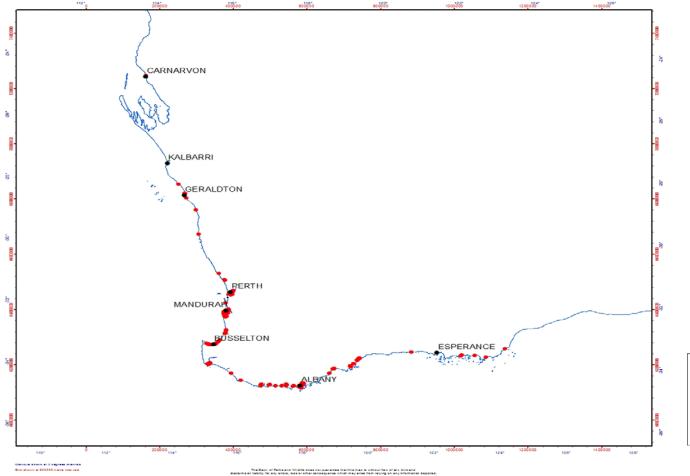
Produced by:

RENN Emisionmental Resources Information Network)

Australian Government Department of Sustainability, Environment, Water, Population and Communities

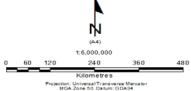
June 2013

O Commonwealth of Australia, 2013.



Legend

- TownsitesMajor_
- CoastalSaltMarsh04012016 Pts
- WA Coast Smoothed





Produced by the Department of Parks and Wildlife







- Recognised nationally and globally as ecosystem of high ecological value increasingly under threat
- Extensive ecosystem services:
 - filtering surface water flowing to ocean
 - carbon sequestration
 - fish nursery habitat; provision of food and nutrients for fauna,
 - buffers coastlines and riverbanks
- Increasing diversity of saltmarsh plant species with increasing latitude

- Dense to patchy areas of characteristic coastal saltmarsh plant species (incl. bare sediment)
- Has connection with tidal regime
- On coastal margin, estuaries, coastal embayments, low wave energy coasts
- May occur on offshore coastal islands
- Primarily on sandy, muddy substrate, includes coastal clay pans

Exclusions:

- saltmarsh on inland saline soils with no tidal connection
- near coastal patches disconnected from tidal regime (once connected).
- seepage zones on rocky areas above tidal limit; headlands subject to wind blown salt
- saltmarsh with > 50% weeds (i.e. must be dominated by native spp)
- >50% tree cover
- land permanently replaced with crops, urban areas etc.

- Most common families: Chenopodiaceae and Poaceae
- Mainly salt-tolerant vegetation (halophytes): grasses, herbs, reeds, sedges, shrubs.
- Includes saltbush flats, many other vegetation types (sedgelands, grasslands, herbfields, mudflats)
- Vegetation generally <0.5m tall
- 95 flora species known WA Coastal Saltmarsh; very species rich
- SW WA: important world centre of endemicity, diversity of saline adapted groups including Samphires (*Tecticornia*), *Samolus* (water pimpernel), *Triglochin* (arrow grass) (G. Keighery)









Threats

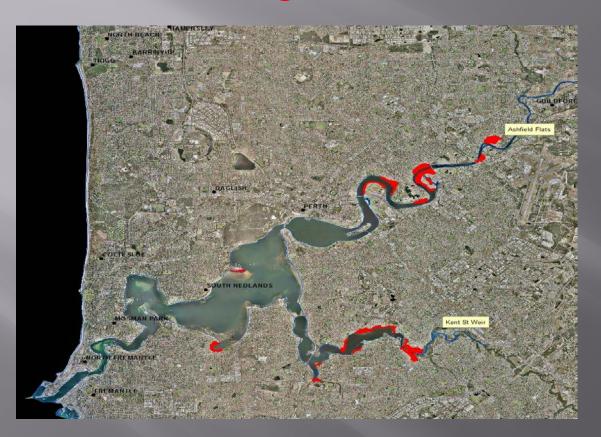
Estimated ~50% loss of coastal salt marsh in WA:

- *Clearing and fragmentation:* can further degrade. Loss of ecological function (tidal links, food web dynamics etc)
- 'Land-claim' or infilling: areas cleared and converted for urban, industry, agriculture.
- *Altered Hydrology/Tidal restriction:* developments impacting groundwater access and surface runoff (freshwater and tidal).
- Weeds: replacing native plants, changing vegetation structure
- Climate Change: changes to temperature, sea level, storm frequency, sediment dynamics
- Other: Recreation, eutrophication, acid sulfate, grazing, insect control, fire regimes





Swan-Canning





Mandurah area





REPROALUP CONSTRUCTOR OF THE PROPERTY OF THE P

Augusta area

Busselton area





EPBC (and State) listing of coastal saltmarsh; opportunities and incentives:

- Improving mapping
- Increased awareness of significance
- Improved management: potential federal resources for rehabilitation/management; HWH
- Improved outcomes in EIA

