

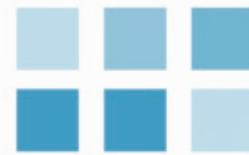


Developing Digital Earth Australia

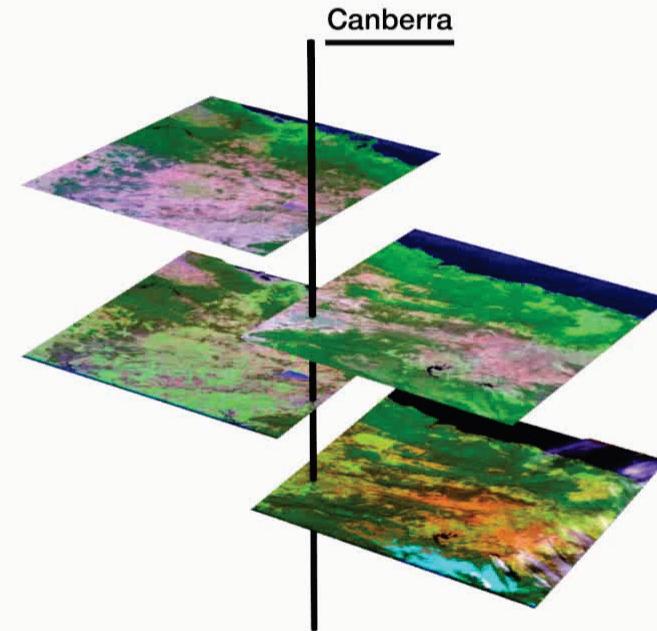
Orthorectification



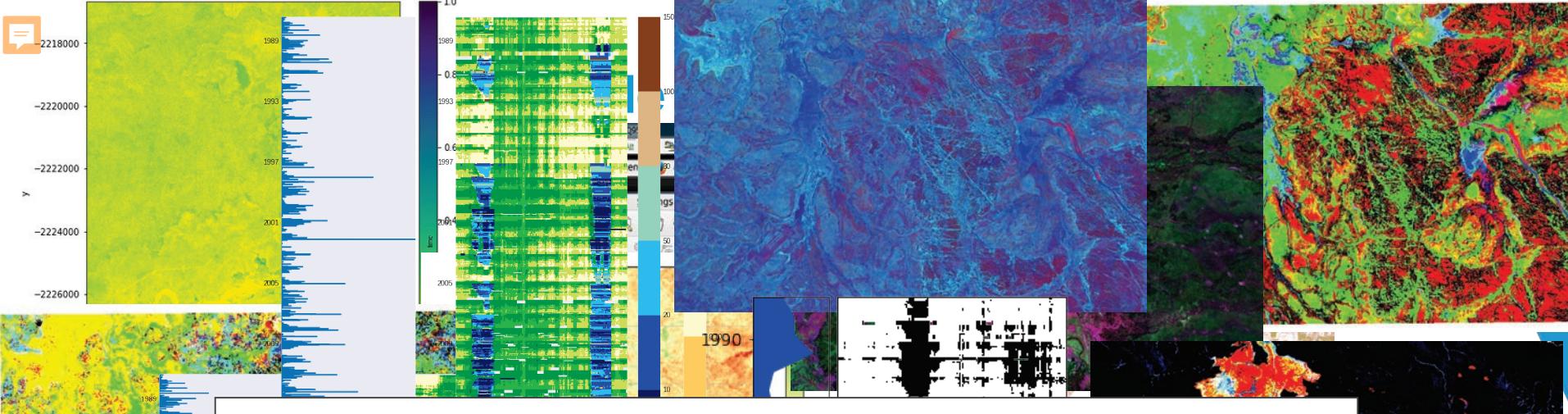
Calibration



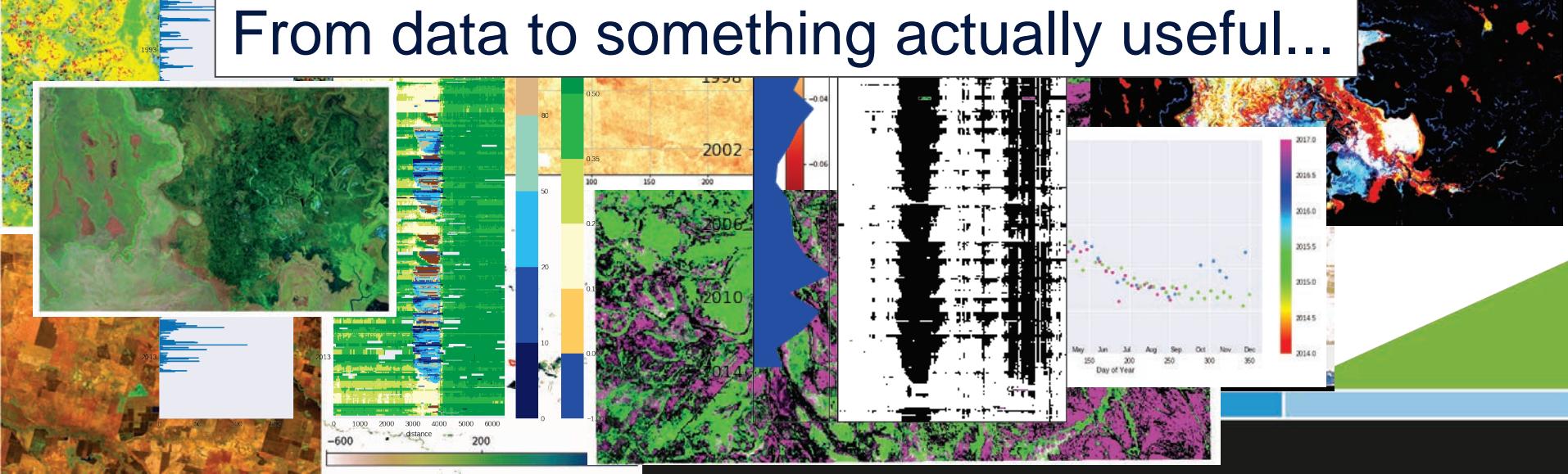
Time series

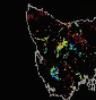
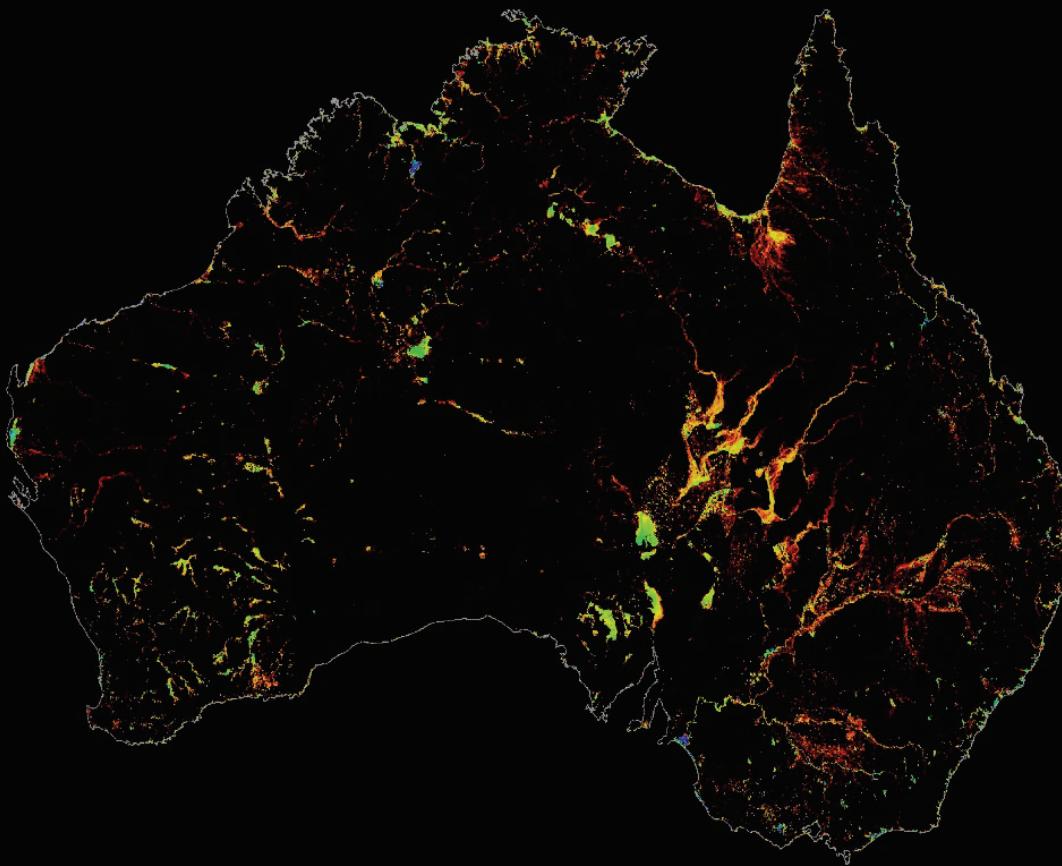


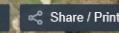
 1987



From data to something actually useful...







Search for locations

Add data



DATA SETS [2]

Remove All

Water Body 141701

Zoom To About This Data Remove

Percentage

Pixel Count

LSA Wet Pixel Pct

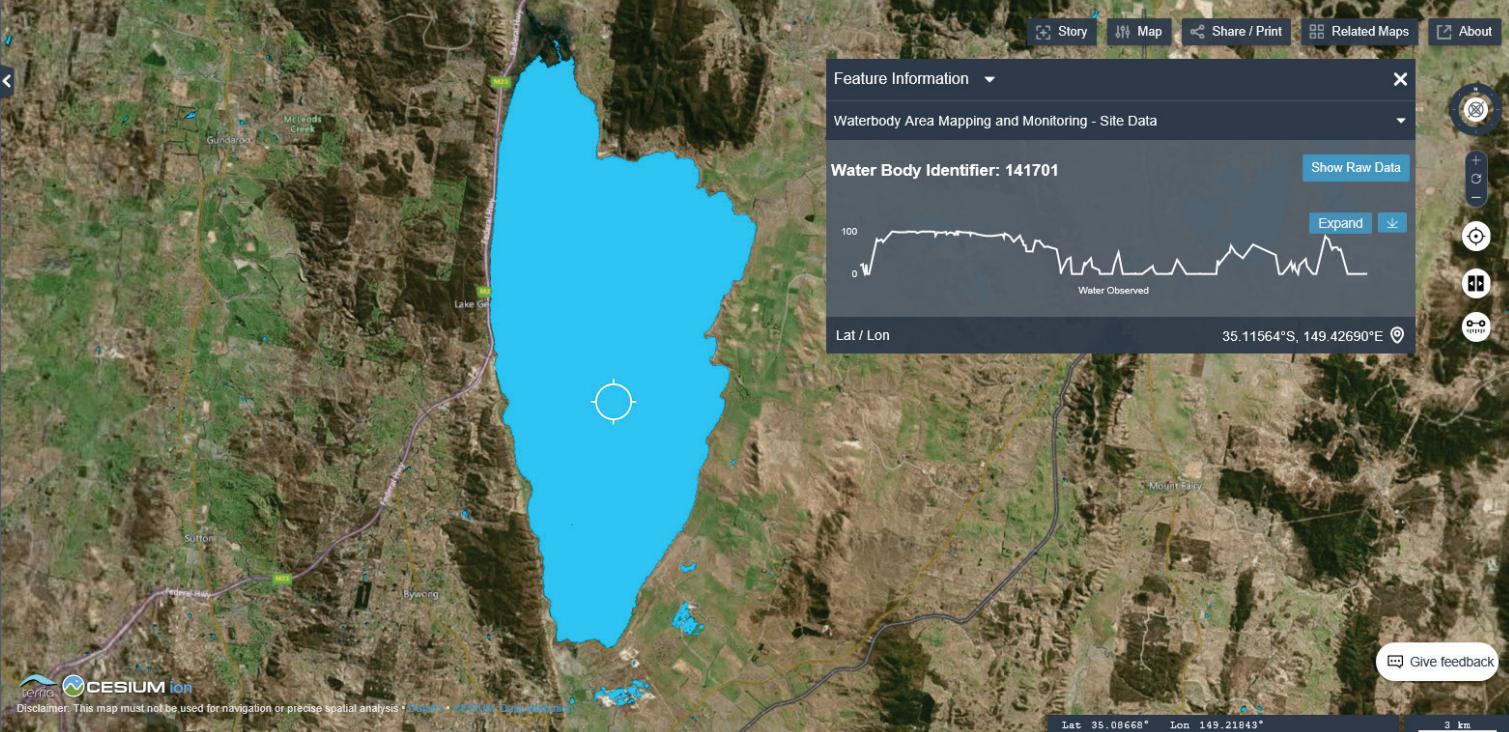
Waterbody Area Mapping and Monitoring

Zoom To Extent About This Data Split Export Remove

Opacity: 100 %

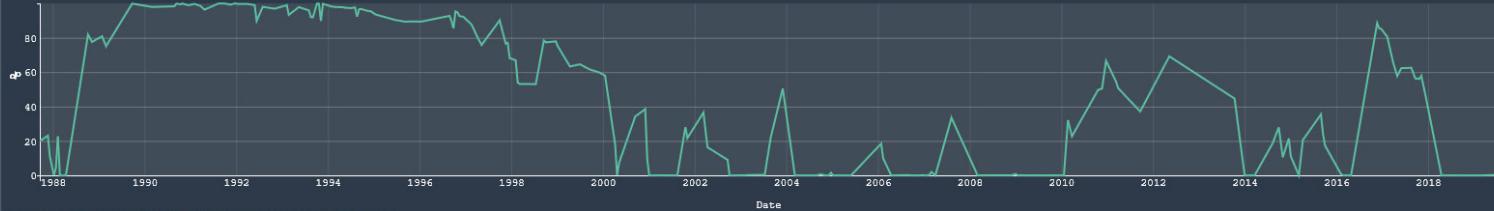
Time:

01/01/2019, 11:00:00

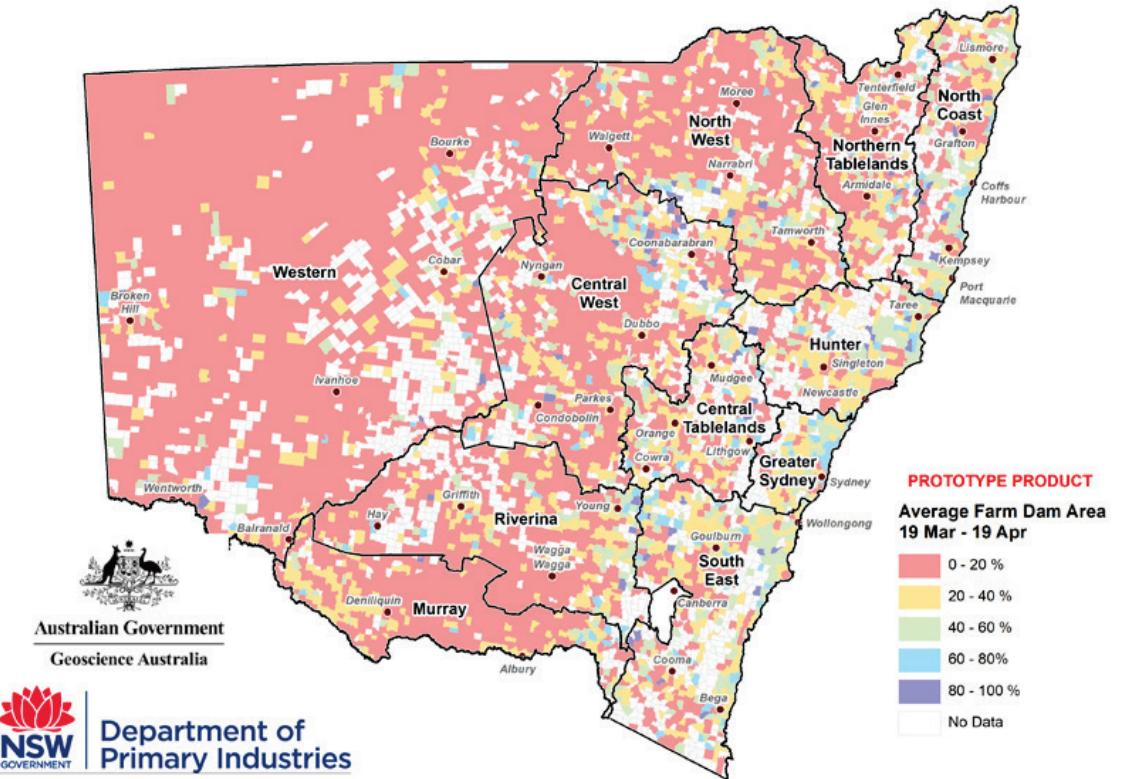


Charts

Water Body 141701



Request for help to operational product



What about if there is more than just water?



CEWO needs to monitor whether "...declared Ramsar wetlands that depend on Basin water resources maintain their ecological character"?

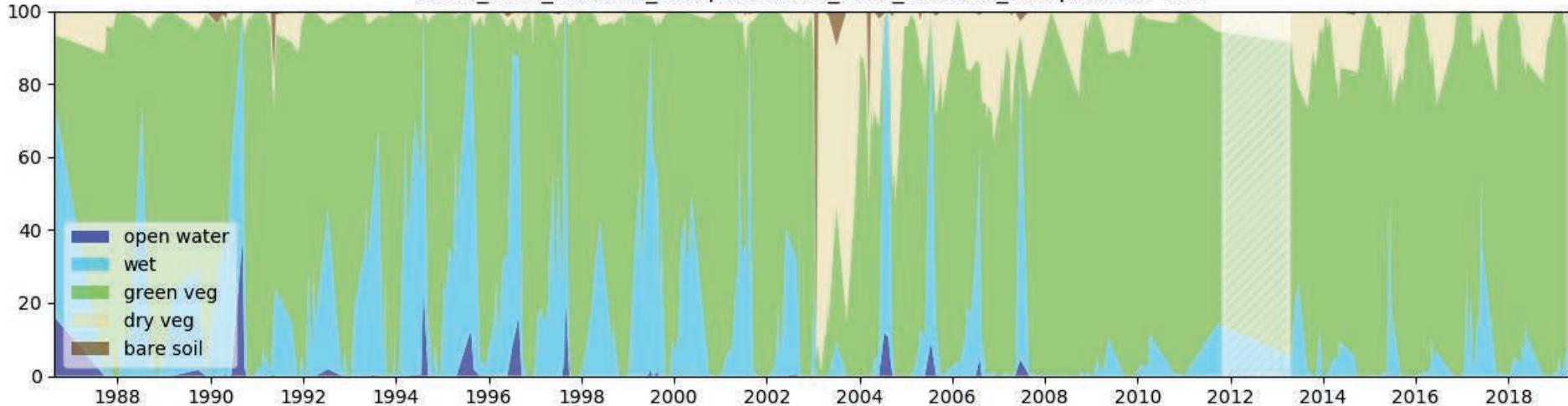




Ginini Flats Wetland Complex, ACT



Percentage of area WOfS, Wetness, Fractional Cover for
Ginini_Flats_Wetland_Complex-Ginini_Flats_Wetland_Complex-ACT-184



The Fractional Cover algorithm developed by the Joint Remote Sensing Research Program and the Water Observations from Space algorithm developed by Geoscience Australia are used in the production of this data





Map

Share / Print

Related Maps

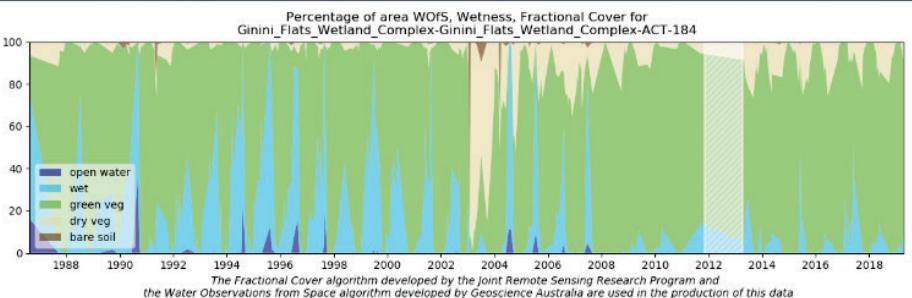
About

Feature Information ▾

DEA Wetlands Insight Tool v1.0 - Site Data

Ginini_Flats_Wetland_Complex in ACT, feature 184 in the Ramsar wetlands catalogue.

Show Raw Data



Change in water, wet vegetation, green vegetation, dry vegetation, and bare soil for
Ginini_Flats_Wetland_Complex. Ramsar listed 1996/03/11

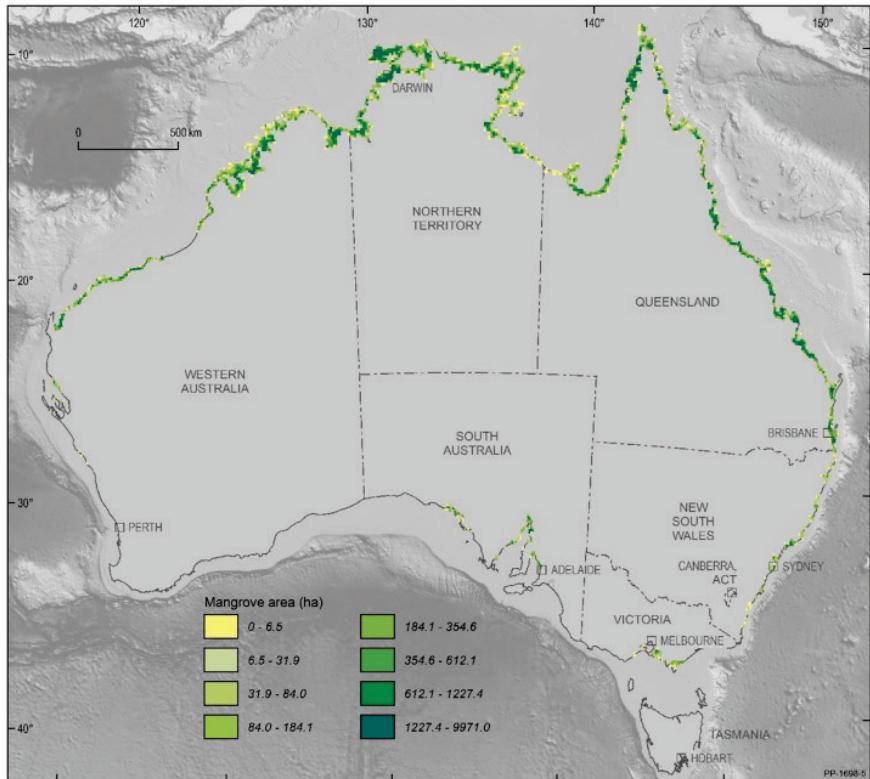
Download: [chart image](#) | [timeseries CSV](#)

Lat / Lon

35.52517°S, 148.78461°E



Extent of Mangroves



The screenshot shows the TERN website homepage. At the top right are links for 'Custom Search', 'CONTACT US', and a phone number '+61 (07) 3365 9097'. Below this is a navigation menu with links to 'Home', 'About', 'Infrastructure Themes', 'The Observatory', 'Data', 'Resources', and 'News & Events'. The main content area features a photograph of four people in a field, with two orange callout boxes: 'What is TERN?' and 'Data Discovery Portal'. Below the photo is a section titled 'New maps reveal mangrove change since 80s' with a brief text summary. To the right are two sets of maps showing mangrove extent in 1987, 2010, and 2016, with a caption about the study's findings. Social media sharing buttons are also visible.

TERN

Custom Search

CONTACT US +61 (07) 3365 9097

Home About Infrastructure Themes The Observatory Data Resources News & Events

What is TERN?

Data Discovery Portal

<< Back

New maps reveal mangrove change since 80s

A new study of Australia's mangrove ecosystems over the past 30 years has found that they expanded between 1992 and 2010 but have been contracting since then. Read the key findings and openly access the first ever national maps of annual mangrove extent via TERN from 1987 to 2016.

A lot has changed since the 1980s—think the internet, phones, smoking etc—but what about Australia's mangrove ecosystems and their ability to support faunal biodiversity, filter pollutants, protect marine ecosystems, reduce coastal erosion and storm damage, and store carbon?

Thanks to a new collaborative study utilising decades of satellite data, the maps and data are now openly available to assist in answering these important questions.

1987 2010 2016

1987 2010 2016

Search for locations

Add data

DATA SETS [2] Remove All

Mangrove Canopy Cover 25m (copy) (copy)

Zoom To Extent About This Data Split Remove

Opacity: 100 %

Left Both Right

Time: 01/01/2010, 11:00:00

Woodland - (20% - 50% cover)
Open Forest - (50% - 80% cover)
Closed Forest - (>80% cover)

Mangrove Canopy Cover 25m (copy)

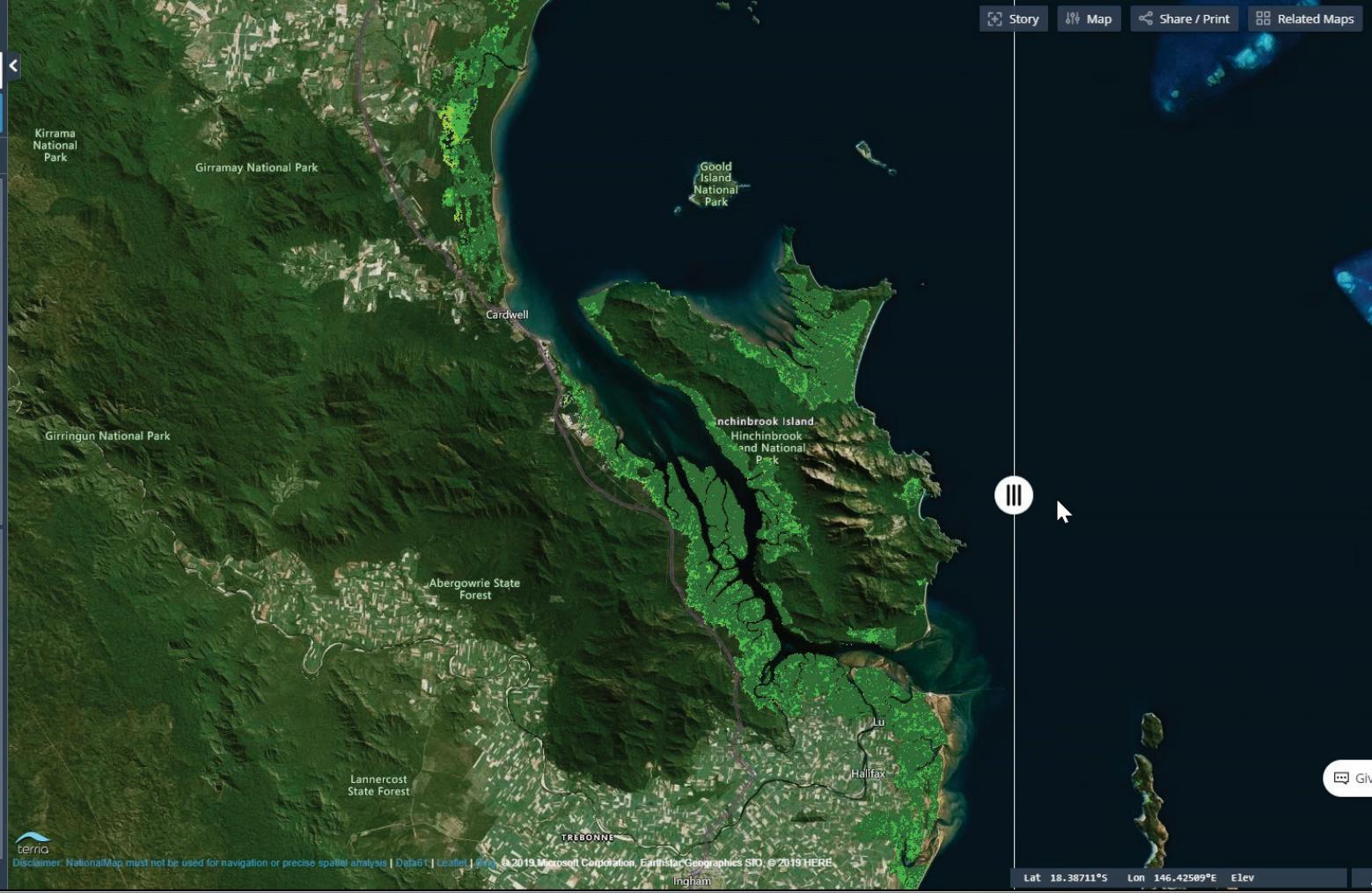
Zoom To Extent About This Data Split Remove

Opacity: 100 %

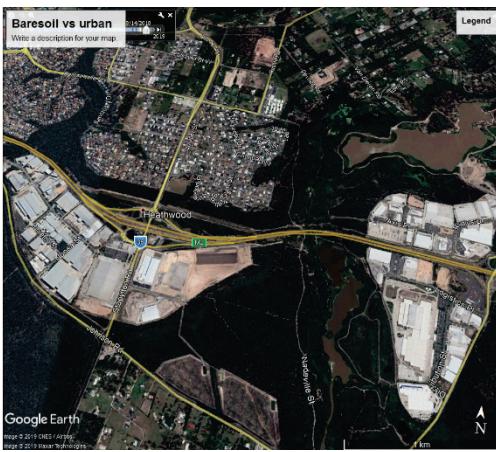
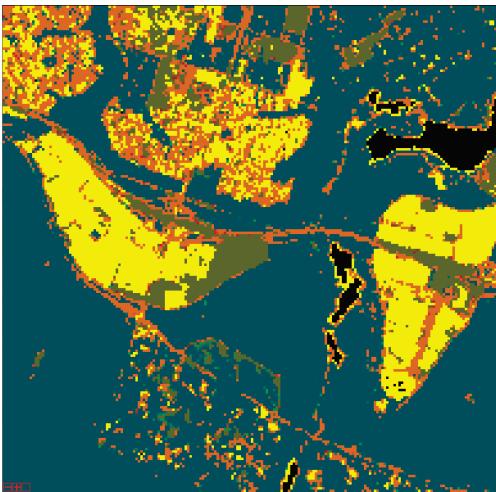
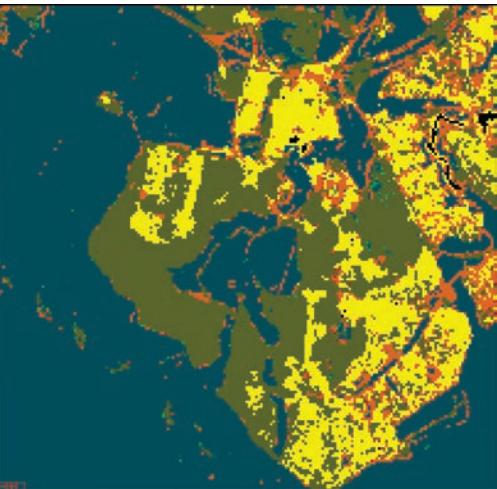
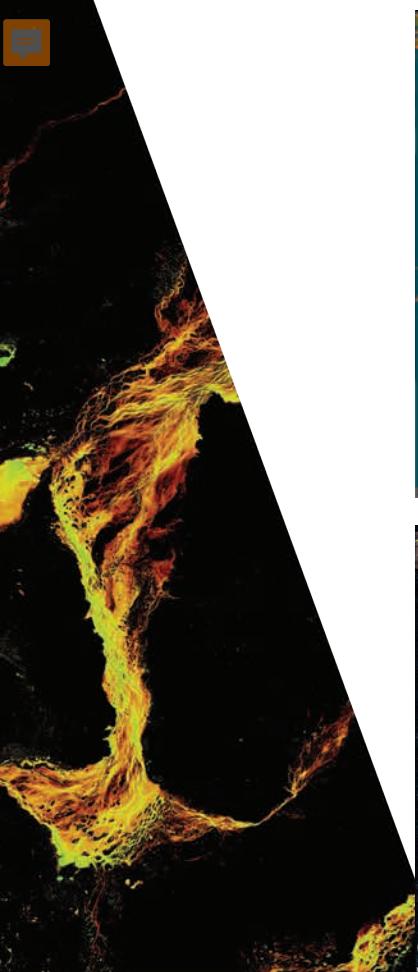
Left Both Right

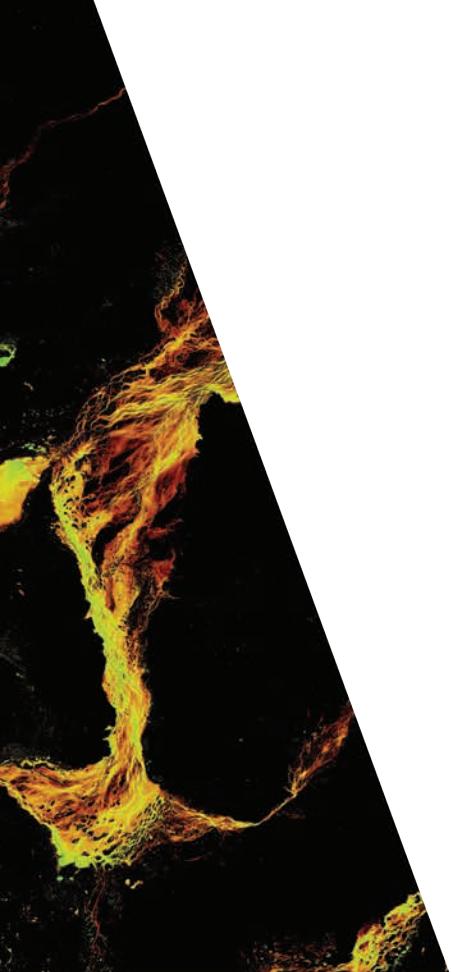
Time: 01/01/2012, 11:00:00

Woodland - (20% - 50% cover)
Open Forest - (50% - 80% cover)
Closed Forest - (>80% cover)









Where next for DEA?

National datasets to inform government decisions

Open access and exploitation of public good satellite data

Helping to enable government and business to use public good data and national datasets

Work in progress:

Land Cover

Surface water

Soils

Interoperability of climate, land and sub-surface data





Australian Government
Geoscience Australia



Thanks 😊

Norman Mueller

Further Information

Web: www.ga.gov.au/dea

Email: dea@ga.gov.au

Address: Cnr Jerrabomberra Avenue and Hindmarsh Drive, Symonston ACT 2609