

Data types & access

Now that you've got a bit more of a handle on how the **eReefs models** work, we're going to look at how we can access the generated outputs.

Hydrodynamics

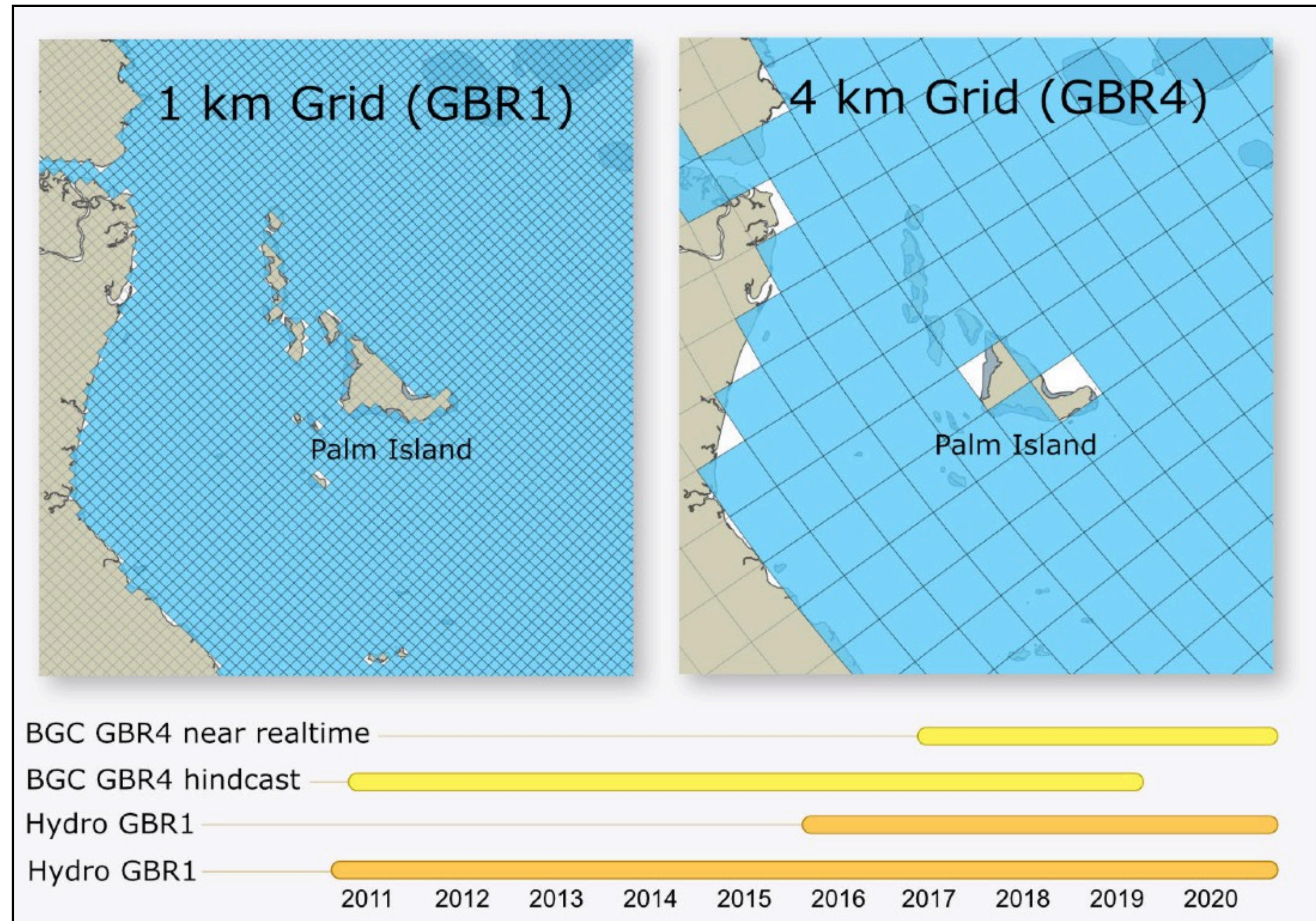
Modelled at **1 km** and **4 km** resolution and is available as **hourly data**.

- 1km December 2014 - hourly
- 4km September 2010 - hourly

Biogeochemical

Modelled at **4 km** resolution and is available as **daily (midday) data**.

- 4km January 2015 - daily



Visualisation portals

eReefs data files are stored on centralised and backed up on disk at **AIMS**, **CSIRO** and **BOM**. These data are accessible through a series of tools that allow external users to view, query, and retrieve the data via the internet and the world wide web.

This is the simplest method for most users. It provides access to any dataset which is connected to the eReefs Data Brokering Layer but as limited functionalities...

1.

The screenshot shows the ReefTemp Next Generation web portal. The header includes the Australian Government Bureau of Meteorology logo and navigation links: HOME, ABOUT, MEDIA, CONTACTS, and a search bar. Below the header, there are regional links: NSW, VIC, QLD, WA, SA, TAS, ACT, NT, AUSTRALIA, and ANTARCTIC. The main content area is titled "ReefTemp Next Generation" and includes a breadcrumb trail: Bureau Home > Environmental Information > Coastal information > ReefTemp Next Generation. A descriptive paragraph states that ReefTemp Next Generation provides high-resolution mapping products for coral bleaching risk in the Great Barrier Reef region, developed by the Bureau of Meteorology for eReefs under the National Plan for Environmental Information initiative. A link is provided for information on the 2020 marine heatwave. Below this, users are prompted to select a date, product, and parameters to view maps. The date is set to 2021-Jul-12. The product selection shows "Sea Surface Temperature Anomaly (SSTA)" as the chosen option. The parameters section allows for multiple selections, with "1-day (IMOS climatology)" selected. On the right, a map titled "IMOS 14-day Mosaic: SST Anomaly 12 July 2021 GBR region" displays a heatmap of the Great Barrier Reef area, showing significant warming (red/orange colors) in the western and central parts of the reef. A sidebar on the left contains a menu with categories like Environmental Information, Coastal information, and Atmospheric composition.