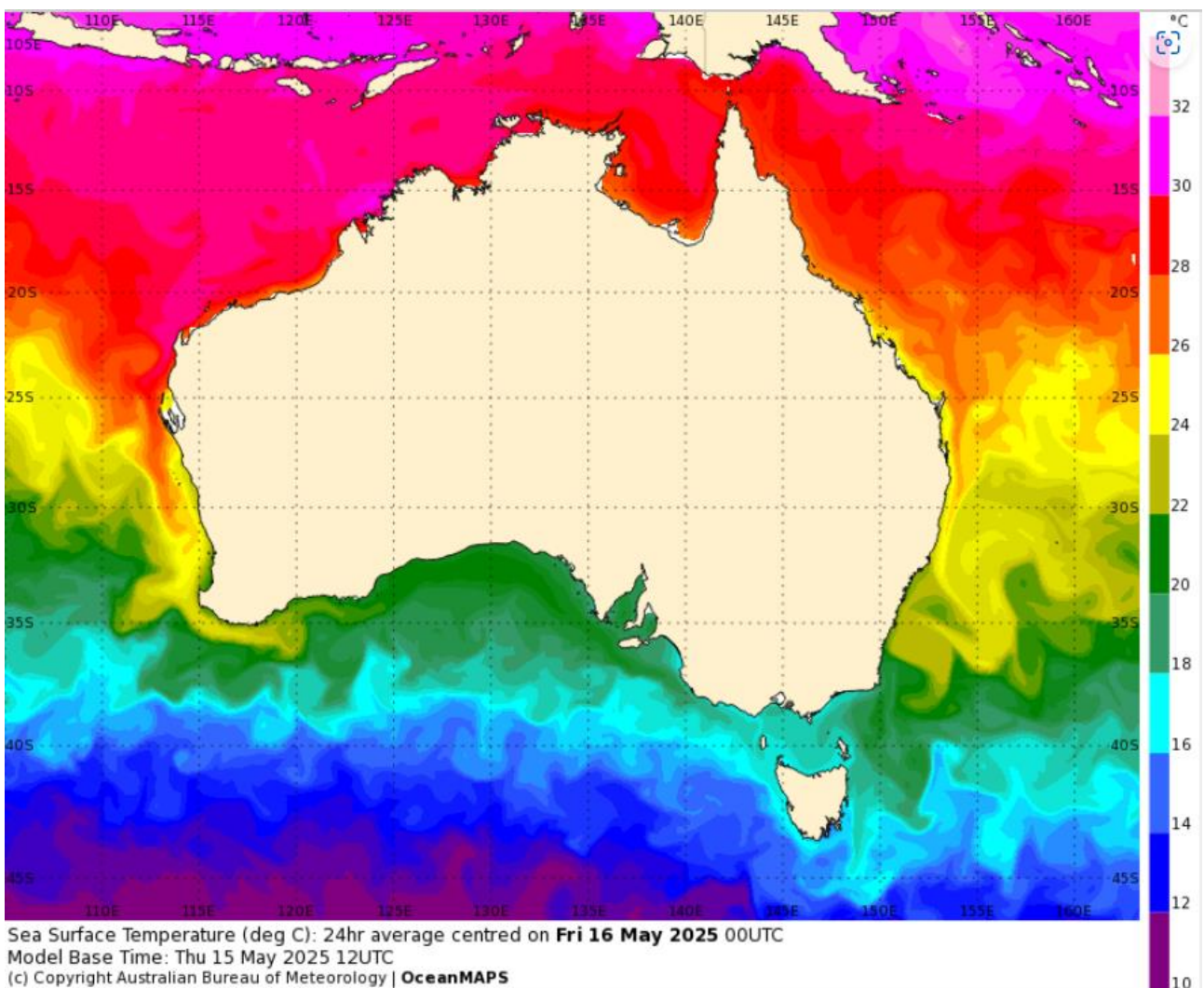


Ocean Model, Analysis and Prediction System Data

User Guide - Version 2.0 – updated 1 July 2025



This user guide provides a summary of the Ocean Model, Analysis and Prediction System (OceanMAPS v4.1i) data products available to Registered Users via FTP and Cloud (S)FTP.



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Model Domains and Products

Table 1 lists the products included in the OceanMAPS – Forecast Grids – Australian Region – Bundle (IDBYA919) and their domains, which are shown in Figures 1 and 2. Please see our [Product Catalogue](#) for current prices.

Product Code	Temporal Resolution	Domain	Domain (latitude x longitude)
IDYOC703	Daily	Australia	16.0°N - 75.0°S and 90.0 - 180.0°E
IDYOC843	Three-hourly	Australia	16.0°N - 75.0°S and 90.0 - 180.0°E
IDYOC713	Daily	North-west shelf (NWWA and NEWA)	9.0 - 24.0°S and 108.0 - 131.0°E
IDYOC723	Daily	Queensland (NWQLD, NEQLD and SEQLD)	8.0 - 30.0°S and 136.0 - 160.0°E
IDYOC733	Daily	New South Wales (NSW)	26.0 - 40.0°S and 147.0 - 160.0°E
IDYOC743	Daily	South-western Australia (WWA, SWWA and SEWA)	20.0 - 40.0°S and 108.0 - 131.0°E
IDYOC753	Daily	Victoria/Tasmania (VIC/TAS)	36.0 - 46.0°S and 138.0 - 152.0°E
IDYOC763	Daily	South Australia (SA)	30.0 - 42.0°S and 128.0 - 142.0°E
IDYOC773	Daily	Northern Territory (NT)	6.0 - 18.0°S and 126.0 - 140.0°E
IDYOC783	Daily	Cocos (Keeling) Islands	9.0 - 15.0°S and 93.0 - 100.0°E
IDYOC793	Daily	Christmas Island	7.0 - 14.0°S and 102.0 - 109.0°E
IDYOC803	Daily	Lord Howe Island	28.0 - 35.0°S and 156.0 - 163.0°E
IDYOC813	Daily	Macquarie Island	51.0 - 58.0°S and 155.0 - 162.0°E
IDYOC823	Daily	Norfolk Island	26.0 - 32.0°S and 165.0 - 171.0°E

Table 1 List of products included in the OceanMAPS – Forecast Grids – Australian Region – Bundle (IDBYA919)

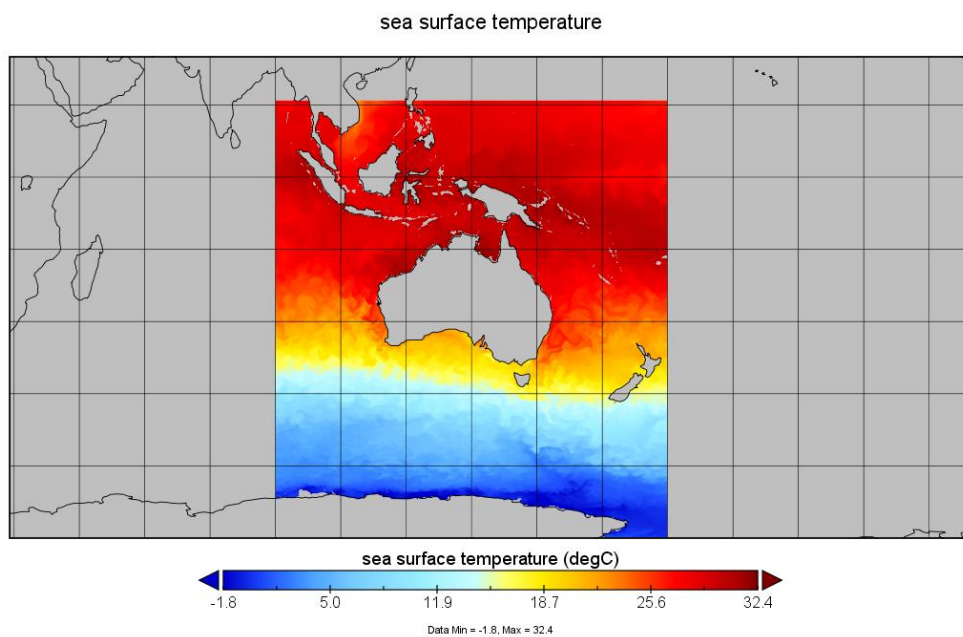


Figure 1 – Example showing OceanMAPS Australian domain



Figure 2 – Other OceanMAPS domains for daily forecasts

File Location

Files are available in the /nwp subdirectory of Registered Users' directories. Products are available via cloud FTP (ftp-reg.cloud.bom.gov.au), SFTP (sftp-reg.cloud.bom.gov.au) and ftp.bom.gov.au.

File Naming Conventions

Daily data

This data is provided at a temporal resolution of one day and contains three-dimensional forecast information.

Product files conform to the following naming convention:

IDYOCddd.pppp.yyyymmddhh.fff.model.nc

File-name key	
IDYOCddd	Product Code as listed in Table 1
pppp	Forecast Parameter as listed in Table 2
yyymmdd12	forecast base date and time in UTC
fff	forecast hour

Table 2 provides a list of forecast parameters. Please note that the parameter *eta* is a two-dimensional variable, while *salt*, *temp*, *u* and *v* are three-dimensional variables.

Variable	Description
eta	Sea surface height
salt	Sea salinity
temp	Sea surface temperature
u	Zonal current
v	Meridional current

Table 2 List of forecast parameters for daily data

Three-hourly data

This data is provided at a temporal resolution of three hours and contains surface forecast information only.

Product files conform to the following naming convention:

IDYOC843.surface.03h.yyyymmdd12.fff.model.nc

File-name key

yyymmddhh forecast base date and time in UTC

fff forecast hour

Note: unlike daily files, IDYOC843 files contain multiple timesteps and forecast parameters.

Forecast parameters are: sea surface height (*eta_t*), sea surface salinity (*sss*), sea surface temperature (*sst*), zonal surface current (*usurf*) and meridional surface current (*vsurf*).

Forecast hours in three-hourly data files are listed in Table 3.

File	Forecast hours
IDYOC843.surface.03h.yyyymmdd12.000.model.nc	0, 3, 6, 9, 12, 15, 18, 21
IDYOC843.surface.03h.yyyymmdd12.024.model.nc	24, 27, 30, 33, 36, 39, 42, 45
IDYOC843.surface.03h.yyyymmdd12.048.model.nc	48, 51, 54, 57, 60, 63, 66, 69
IDYOC843.surface.03h.yyyymmdd12.072.model.nc	72, 75, 78, 81, 84, 87, 90, 93
IDYOC843.surface.03h.yyyymmdd12.096.model.nc	96, 99, 102, 105, 108, 111, 114, 117
IDYOC843.surface.03h.yyyymmdd12.120.model.nc	120, 123, 126, 129, 132, 135, 138, 141
IDYOC843.surface.03h.yyyymmdd12.144.model.nc	144, 147, 150, 153, 156, 159, 162, 165

Table 3 Forecast hours in three-hourly data files

Data Availability Time

The expected approximate time for OceanMAPS data files to be available on Cloud (S)FTP and FTP is 7:30 am AEST (2130 UTC) daily. The base time of the analysis is 1200 UTC.

Sample Files

Sample OceanMAPS data files are available in the following location:

<ftp://ftp.bom.gov.au/anon/sample/catalogue/Oceanmaps/>

Please note that due to most browsers no longer supporting FTP, it is generally necessary to use an FTP client such as Filezilla to retrieve the sample files.

Alternatively, they can be accessed via Windows File Explorer by pasting the above link into the address bar.

Additional Information

A Technical Report on the upgrade to OceanMAPS v4.1i is available on the Bureau's website in the following location: [OceanMAPS v4.1i Technical Report Dec 2024](#)

Additional [Forecast Help \(bom.gov.au\)](#) is available on the Bureau's website.

Contact Us

For enquiries about real-time data please email webreg@bom.gov.au