COSPPac Ocean Portal
About: Reynolds

Introduction

Reynolds is a global sea-surface temperature and ice-coverage dataset developed and maintained by the NOAA Earth System Research Laboratory (USA). The original data are produced using a high-resolution blended analysis. The aim of this portal is to focus on data across the Pacific region. Furthermore, while images and statistics are provided for particular regions and periods, it is not the aim of this site to serve the actual Reynolds NetCDF data. Users are encouraged to visit the data source (see below).
Link for further information on original data:
http://www.esrl.noaa.gov/psd/data/gridded/data.noaa.oisst.v2.highres.html .

Data Source

All the analyses on this portal have been derived from the daily data on a 0.25° global grid. These are, in turn, based on observations of ocean surface temperature from satellites (AVHRR), ships and both drifting and moored buoys. The daily data consists of both means and anomalies. Link to data: ftp://eclipse.ncdc.noaa.gov/pub/OI-daily-v2/NetCDF/ .

Resolution

0.25° latitudes and longitudes.

Coverage

September 1981 to the present.

Update Frequency

Daily, but data less than fifteen days old are marked as "preliminary" by NOAA; preliminary data are not shown in this portal at present. For example, monthly or multiple-month data are updated when revised data is available for the month, i.e. about half way through the following month.

Description:

The following display options are available for the Reynolds dataset:

- **Variable:**
  (Note: these are listed under the 'Ocean Temperature' heading)
  a. Mean Temperature
  b. Anomalies (with respect to a 1971-2000 mean)
  c. Deciles (ranking the SST against the period from 1982-present)

- **Plot Type:**
  Surface Map

- **Period**:
  a. Daily
  b. Monthly
  c. 3-Monthly (3-month mean)

d. 6-Monthly (6-month mean)
e. 12-Monthly (12-month mean)

Disclaimer

The Bureau advises that the information in this service comprises general statements based on scientific research. The Bureau does not warrant, guarantee or make any representations regarding the currency, correctness, accuracy, completeness, reliability, or any other aspect regarding characteristics or use of the information shown on this web portal. The user accepts sole responsibility and risk associated with the use and results of Bureau material in this service, irrespective of the purpose to which such use or results are applied. To the extent permitted by law, the Bureau (including each of its employees) excludes all liability to any person for any consequences, including but not limited to losses, damages, costs, expenses and any other compensation, whether in an action, contract, negligence or tort, arising out of or in connection with the use or performance of Bureau material in this service and any information or material contained in it.

Acknowledgements, Citations and References

Reynolds, R. W., T. M. Smith, C. Liu, D. B. Chelton, K. S. Casey and M. G. Schlax, 2007: Daily High-resolution Blended Analyses for sea surface temperature. Journal of Climate, 20, 5473-5496.

Please note the following text reproduced from the NOAA website: "**Please note:** If you acquire NOAA High Resolution SST data products from PSD, we ask that you acknowledge us in your use of the data. This may be done by including text such as *NOAA High Resolution SST data provided by the NOAA/OAR/ESRL PSD, Boulder, Colorado, USA, from their Web site at http://www.esrl.noaa.gov/psd/* in any documents or publications using these data. We would also appreciate receiving a copy of the relevant publications. This will help PSD to justify keeping the NOAA High Resolution SST data set freely available online in the future. Thank you!"

Contact

For more information, please email cosppac_comp_unit@bom.gov.au .
Ocean Portal URL: http://www.bom.gov.au/cosppac/comp/ocean-portal/