

ESDIS INITIATIVES

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Digital Object Identifiers

Digital Object Identifiers for every GHRC dataset

- DOIs have been defined for most of the approximately 300 datasets in the GHRC catalog, with about 65% of these registered through ESDIS
- Dataset Landing Pages are already provided for all GHRC datasets, whether or not a DOI is in place

DOI: http://dx.doi.org/10.5067/MEASURES/MULTIPLE/WATER_VAPOR/DATA301
Digital Object Identifier



RSS Monthly 1-deg Microwave Total Precipitable Water netCDF

The RSS Monthly 1-deg Microwave Total Precipitable Water netCDF dataset provides 1 degree gridded data for the monthly means of total precipitable water, a 20 year climatology file, and a cumulative file with data from 1988 to the current month. This includes the anomalies for global mean precipitable water over Ice Free Oceans (60S to 60N) and the tropical mean for 20S to 20N. Satellite information used in calculating the means is included for the SSMI (8, 10, 11, 13, 14, 15) and SSMIS (16, 17), AQUA10 and Windsat(Coriolis). This dataset contains both netCDF3 and netCDF4 formatted files.

ALL of the requested data are online.

ALL of the browse images for this dataset are available online.

General Characteristics

Collections: Remote Sensing Systems Products

Projects: DISCOVER

Platforms: AQUA, Coriolis, DMSP 5D-2/F10, DMSP 5D-2/F11, DMSP 5D-2/F13, DMSP 5D-2/F14, DMSP 5D-2/F15, DMSP 5D-2/F8, DMSP 5D-3/F16, DMSP 5D-3/F17

Instruments: AMSR-E, SSMI, SSMIS, WINDSAT

Parameters: PRECIPITABLE WATER, WATER VAPOR

Processing level: 3

Format: NETCDF

Coverage

Location: GLOBAL OCEANS

Spatial resolution: 1 degree grid

North boundary: 60°

West boundary: -180°

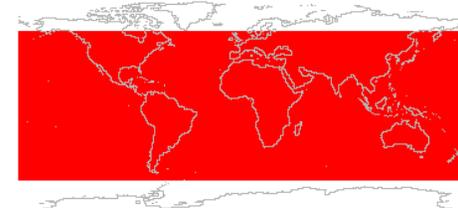
East boundary: 180°

South boundary: -60°

Temporal resolution: MONTHLY

Start date: 1988-01-01

Stop date: 2014-07-31



Red dots or areas indicate coverage range.

Links

Data Access: <ftp://ghrc.nsstc.nasa.gov/pub/tpw/data/>

Files may be downloaded directly to your workstation from this link

Browse: http://www.ssmi.com/cdr/climate_data_record_browse.html

Browse images illustrate the nature and coverage of the data

Guide: http://ghrc.nsstc.nasa.gov/uso/ds_docs/tpw/rssm1tpwn_dataset.html

The guide document contains detailed information about the dataset

PI Documentation: http://www.ssmi.com/cdr/tpw_data_description.html

This is the URL for Principal Investigator documentation that is currently online for download.

PI Documentation: ftp://ghrc.nsstc.nasa.gov/pub/doc/rss/rssm1tpwn/wentz_JGR_1997.pdf

This is the URL for Principal Investigator documentation that is currently online for download.

PI Documentation: ftp://ghrc.nsstc.nasa.gov/pub/doc/rss/rssm1tpwn/wentz_JAS_1998.pdf

This is the URL for Principal Investigator documentation that is currently online for download.

Algorithm Information: ftp://ghrc.nsstc.nasa.gov/pub/doc/rss/rssm1tpwn/AMSR_Ocean_Algorithm_Version_2_Supplement_1.pdf

Information about the algorithm used to produce this dataset

Algorithm Information: ftp://ghrc.nsstc.nasa.gov/pub/doc/rss/rssm1tpwn/AMSR_Ocean_Algorithm_Version_2.pdf

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Citing data: <http://ghrc.nsstc.nasa.gov/uso/citation.html>

Instructions for citing GHRC data.

Data Services

Some GHRC data are available by standard service APIs

- SSM/I datasets in netCDF are available via OPeNDAP
- Data is provided to Field Campaign portals via KML, Web Map Services, GeoServer
- Planned HS3 Data System will extend this support to publicly available Hurricane Science data

User Registration Service

Centralized User Registration Service (URS)

- Rationale: Single sign on for all ESDIS data systems, including data access and ordering at all DAACs
- Impact: Changes required at GHRC include integration with
 - Current GHRC user database
 - Web tools that allow data downloads (LIS Interactive Browse, RASI, HyDRO)
 - Data order tools (HyDRO)
 - User authorization for restricted data
 - Future field campaign portals and other specialized tools
 - Data access services
- Status: Working with LANCE system first

**Data will remain free, but will require a log in to access.
Concerns with URS from a user perspective?**

HTTPS instead of FTP

Phasing out FTP data downloads in favor of HTTPS

- Rationale
 - Eliminate anonymous downloads of data for better knowledge of user community and their needs
 - **NASA directive** to discontinue use of FTP for security reasons (passwords sent in the clear)
- Impact: Almost all of our data is distributed via FTP, most with users' automated scripts
- Plans
 - Provide documentation and sample scripts for automated data downloads over HTTPS with URS
 - Provide bulk download web clients (e.g., "download all" or "bundle and download" options in HyDRO)
 - Notify and work with anonymous FTP users

Discussion

THANK YOU

for your attention!

Going forward, data will remain free, but will require a log in and new access method.

1. What is your preferred data access method?
2. Do you have concerns with URS from a user perspective?
3. How can we help you transition from ftp to https?

Please contact **GHRC User Services** for any help or questions
ghrcdaac@itsc.uah.edu