Discover & Access NASA Salinity Data

Vardis Tsontos

NASA Jet Propulsion Laboratory

PO.DAAC Data Engineer
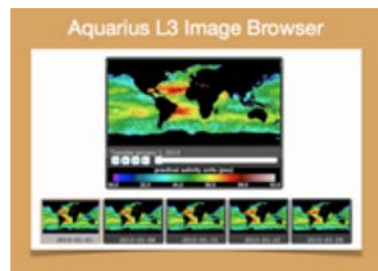
PO.DAAC Tools & Services
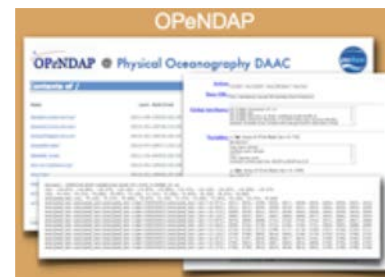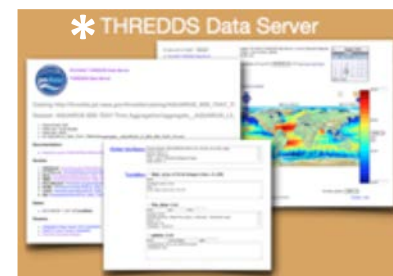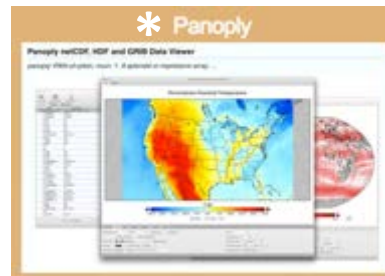

Web Portal

Visualizes Aquarius Data

Services & Tools for
Accessing & Subsetting Data
Also have visualization capabilities

Learn more by accessing
Webinar Resources

PO.DAAC's Mission Pages

- PO.DAAC has pages for the missions it supports
  - *Aquarius* and *SMAP* pages can be accessed through the "Missions" tab
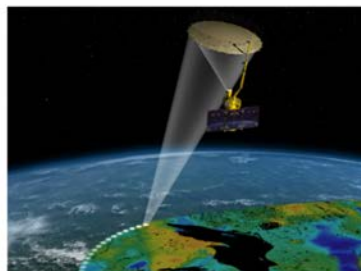
podaac.jpl.nasa.gov

SMAP Mission Page

- Key resources are found under "Technical Documentation"
  - Users Guides
  - Release notes
  - etc.

podaac.jpl.nasa.gov/smap

SMAP Mission Page

- "Data Links" can be found at upper right

  - Click "Browse SMAP Salinity Data" to view catalog

  - There are currently 9 SMAP salinity products

podaac.jpl.nasa.gov/smap

SMAP Data - Orbital

RSS SMAP Level 2C Sea Surface Salinity V2.0 Validated Dataset
(SMAP_RSS_L2_SSS_V2)
Salinity/Density
Platform/Sensor: SMAP/SMAP_RADIOMETER
Processing Level: 2C
Along/Across Track Resolution: 39 km x 47 km
Start/End Date: 2015-Apr-1 to Present
Description: The version 2.0 SMAP-SSS, level 2C product contains the first release of the validated sea surface salinity orbital/swath data from the NASA Soil Moisture Active Passive (SMAP) observatory, ... more

RSS
Salinity/Density
~40 km (native) sampling
Version 2*
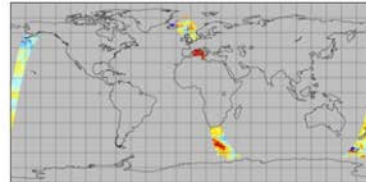
RSS SMAP Level 2 Sea Surface Salinity V2.0 70km Validated Dataset
(SMAP_RSS_L2_SSS_V2_70KM)
Salinity/Density
Platform/Sensor: SMAP/SMAP_RADIOMETER
Processing Level: 2C
Along/Across Track Resolution: 39 km x 47 km
Start/End Date: 2015-Apr-1 to Present
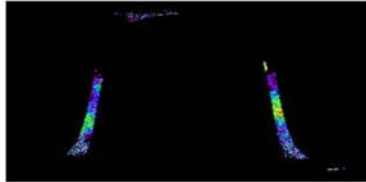**Description:** The version 2.0 70km SMAP-SSS, level 2C product is the second release of the validated sea surface salinity orbital/swath data from the NASA Soil Moisture Active Passive (SMAP) observatory ... more

RSS
Salinity/Density
70 km re-sampling
Version 2*

Version 3 is expected to be released by Fall 2018
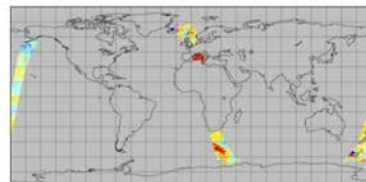
JPL SMAP Level 2B CAP Sea Surface Salinity V4.0 Validated Dataset
(SMAP_JPL_L2B_SSS_CAP_V4)
Ocean Winds, Salinity/Density
Platform/Sensor: SMAP/SMAP_RADIOMETER
Processing Level: 2B
Along/Across Track Resolution: 60 km x 60 km
Start/End Date: 2015-Mar-31 to Present
Description: This is the PI-produced JPL SMAP-SSS V4.0, level 2B CAP, validated sea surface salinity and extreme winds orbital/swath product from the NASA Soil Moisture Active Passive (SMAP) observatory. ... more

JPL
Salinity/Density & Winds
60 km re-sampling
Version 4

SMAP Data – Gridded Monthly

RSS SMAP Level 3 Sea Surface Salinity Standard Mapped Image Monthly V2.0 Validated Dataset (SMAP_RSS_L3_SSS_SMI_MONTHLY_V2)
Salinity/Density
Platform/Sensor: SMAP/SMAP_RADIOMETER
Processing Level: 3
Longitude/Latitude Resolution: 0.25 degrees x 0.25 degrees
Start/End Date: 2015-Apr-1 to Present
Description: The version 2.0 SMAP-SSS level 3, monthly gridded product is based on the first release of the validated standard mapped sea surface salinity (SSS) data from the NASA Soil Moisture ... more

RSS
Salinity/Density
~40 km (native) sampling
Version 2

RSS SMAP Level 3 Sea Surface Salinity Standard Mapped Image Monthly V2.0 70km Validated Dataset (SMAP_RSS_L3_SSS_SMI_MONTHLY_V2_70KM)
Salinity/Density
Platform/Sensor: SMAP/SMAP_RADIOMETER
Processing Level: 3
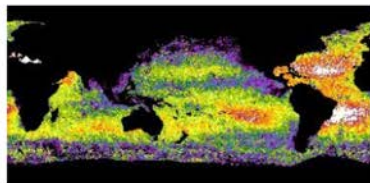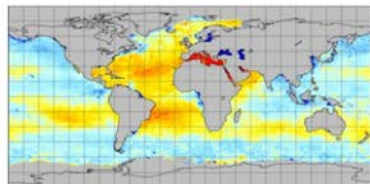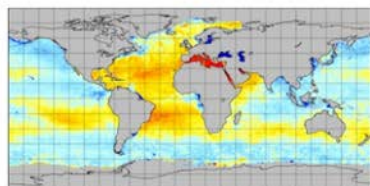**Longitude/Latitude Resolution:** 0.25 degrees x 0.25 degrees
Start/End Date: 2015-Apr-1 to Present
Description: The version 2.0 70km SMAP-SSS level 3, monthly gridded product is based on the first release of the validated standard mapped sea surface salinity (SSS) data from the NASA Soil Moisture ... more

RSS
Salinity/Density
70 km re-sampling
Version 2

JPL SMAP Level 3 CAP Sea Surface Salinity Standard Mapped Image Monthly V4.0 Validated Dataset (SMAP_JPL_L3_SSS_CAP_MONTHLY_V4)
Ocean Winds, Salinity/Density
Platform/Sensor: SMAP/SMAP_RADIOMETER
Processing Level: 3
Longitude/Latitude Resolution: 0.25 degrees x 0.25 degrees
Start/End Date: 2015-Apr-1 to Present
Description: This is the PI-produced JPL SMAP-SSS V4.0 CAP, level 3, monthly mapped sea surface salinity product from the NASA Soil Moisture Active Passive (SMAP) observatory. It is based on the ... more

JPL
Salinity/Density & Winds
60 km re-sampling
Version 4

EARTHDATA

Remote Sensing Systems
www.remss.com

25