**SPURS-2 rain and salinity data**

Elizabeth Thompson

elizabeth.thompson@noaa.gov

Rain and near-surface salinity data on the SPURS2\_preliminiary\_data\_share Google Drive:

<https://drive.google.com/drive/folders/1_XExirexan14qKW7zUDVh08nwlVv_mr0>

(permission required - it should be shared with you already)

The [SPURS-2 special issue of The Oceanography Magazine](https://tos.org/oceanography/issue/volume-32-issue-02) explains most platforms and datasets

The official data archive is with NASA PODAAC; these files should all be posted and up to date on the Google Drive. The Drive might just contain a few more datasets for internal use.

https://podaac.jpl.nasa.gov/SPURS?sections=data

The data on the google drive and our PSL Cruises FTP site will be helpful for my PAL-IMERG project (Janice+Jie) and the ship X-band-ship project (Haonan+Kyla). I've hyperlinked articles written in the above magazine on each dataset if there was one published.

\*) [Rain gauge and all other meteorological + flux + oceanographic + navigation data](https://doi.org/10.5670/oceanog.2019.216).... including salinity at 2, 3, 5 m depth on main research ship:

~/Revelle\_cruises/Ship\_underway…./

Also repeated here:

linux servers: /Volumes/psdshares-1/psd3/cruises/SPURS2\_2016\_2017/ship/

<ftp://ftp1.esrl.noaa.gov/psd3/cruises/SPURS2_2016_2017/ship/>

\*) surface salinity on ship from a floating "snake" (tube hanging off side of ship outside the wake, with a pumped and filtered intake). It measured at ~1-5 cm depth = pretty much the real surface value. This system involved a lot of tubing from ocean intake, alongside the ship, and then into the main lab where the pumps and instruments were located. As a result, there is a time offset of a minute or so between it and the other ship datasets.

~/Revelle\_cruises/Snake/

\*) [PAL on seaglider](https://aquarius.oceansciences.org/docs/osst2017_post_rainville.pdf) (Luc Rainville):

~/seagliders/rain\_gauge/

\*) [PAL on 4 Argo floats](https://doi.org/10.5670/oceanog.2019.211) (Jie Yang):

~/PAL/

\*) [PAL on 2 moorings](https://doi.org/10.5670/oceanog.2019.211) (Jie Yang):

--- not yet uploaded. Jie says: “data will be posted on the Google Drive sometime in October hopefully. I have PAL data on central mooring at 500 and 1000 m and on another PAL on 9deg N, the south PMEL mooring. These PAL data won't be on PODAAC. Also, PAL data will be forthcoming on OSP (Ocean Station Papa)”

~/PAL/

\*) [Rain gauges (many, redundant) and other met/ocean data on central/main mooring](https://doi.org/10.5670/oceanog.2019.209) (where PAL was located):

~/WHOI\_mooring/

\*) [Rain gauges and other met/ocean data on south and north moorings](https://doi.org/10.5670/oceanog.2019.220) (one of which had a PAL):

~/PMEL\_moorings/

\*) [Xband radar on ship](https://doi.org/10.5670/oceanog.2019.213):

<ftp://ftp1.esrl.noaa.gov/psd3/cruises/SPURS2_2016_2017/Xband/>

linux servers: /Volumes/psdshares-1/psd3/cruises/SPURS2\_2016\_2017/Xband

\*) seapol C-band radar in 2017 only.

<http://radarmet.atmos.colostate.edu/spurs2/rainfall/>

\*) IMERG -- these are from Janice’s new v6 files - thanks Janice!

~/IMERG/

The program to match IMERG to individual platforms (assets) in SPURS-2 should be repeated sometime and reposted to the google drive… it’s imerg\_for\_assets.m. I can do this soon.

**Remaining bonus rain datasets that we don't need to look at right now, but exist:**

\*) [Rain gauge on Lady Amber yacht](https://doi.org/10.5670/oceanog.2019.219):

~/Lady\_Amber/

\*) Disdrometer on ship:

It's not seeing drops < 0.4 mm which creates some uncertainty. I processed these in July 2020 and checked them against the ship gauge. The reports (docx and pptx) are in the readme folder.

~/Revelle\_cruises/disdrometer/

\*) no rain gauges on saildrones, I think.