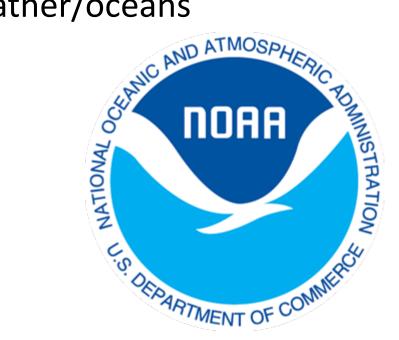
# GHCN (Global Historical Climatology Network)-Daily

**Madison Brook** 

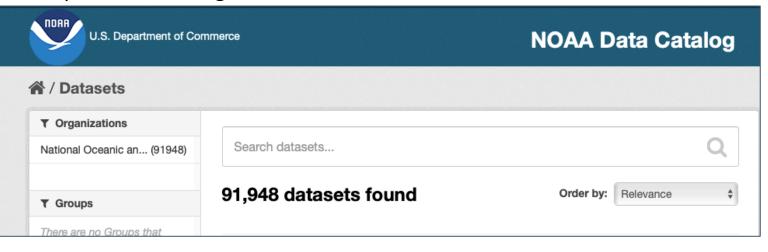
#### NOAA

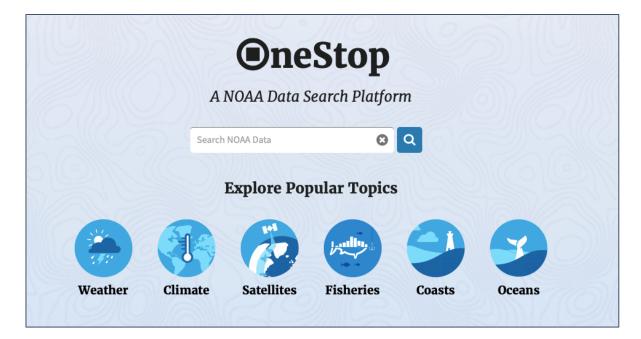
National Oceanic and Atmospheric Administration

Administers many datasets based on climate/weather/oceans



#### https://data.noaa.gov/dataset/





https://data.noaa.gov/onestop/

#### Lots of options!

https://www.ncdc.noaa. gov/cdo-web/datasets

#### Climate Data Online

The datasets listed in this section are accessible within the Climate Data Online search interface.

- □ Daily Summaries
- **⊞** Global Marine Data
- **■** Global Summary of the Month
- oxdot Global Summary of the Year
- □ Local Climatological Data
- Normals Annual/Seasonal
- Normals Daily
- Normals Hourly
- Normals Monthly
- □ Precipitation Hourly

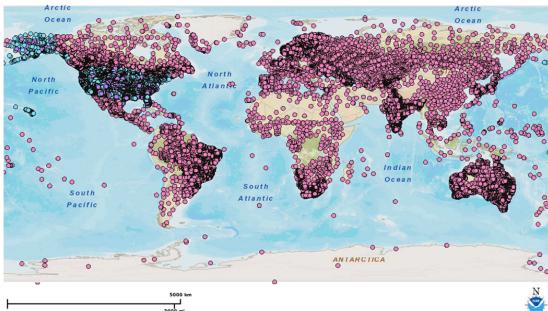
# GHCN (Global Historical Climatology Network)-Daily

- Historical to current database of climate/weather variables
  - Temp, precip, snow depth, cloudiness, ice thickness, etc.
- Daily data
  - Also has monthly and yearly options
- Specific to station locations

Menne, M.J., I. Durre, R.S. Vose, B.E. Gleason, and T.G. Houston, 2012: An overview of the Global Historical Climatology Network-Daily Database. Journal of Atmospheric and Oceanic Technology, 29, 897-910, doi:10.1175/JTECH-D-11-00103.1

#### **GHCN**

- Takes station data from multiple sources worldwide
  - National Climatic Data Centre for USA data
  - Global Climate Observing System for international data
  - World Meteorological Organization (WMO)
  - Various other government exchanges





#### Index of /data/daily-summaries/access

<u>Name</u>	Last modified	<u>Size</u>	<b>Description</b>				
Parent Directory		-					
ACW00011604.csv	2020-07-28 08:00	39K					
ACW00011647.csv	2020-07-28 08:00	524K					
AE000041196.csv	2020-07-28 08:00	2.3M					
AEM00041194.csv	2020-07-28 08:00	1.6M					
AEM00041217.csv	2020-07-28 08:00	1.6M					
AEM00041218.csv	2020-07-28 08:00	1.1M					
AF000040930.csv	2020-07-28 08:00	299K					
AFM00040938.csv	2020-07-28 08:00	751K					
AFM00040948.csv	2020-07-28 08:00	1.2M					
AFM00040990.csv	2020-07-28 08:00	837K					
AG000060390.csv	2020-07-28 08:00	3.6M					
AG000060590.csv	2020-07-28 08:00	4.0M					
AG000060611.csv	2020-07-28 08:00	2.6M					
AG000060680.csv	2020-07-28 08:00	2.7M					
AGE00135039.csv	2020-07-28 08:00	3.1M					
AGE00147704.csv	2020-07-28 08:00	1.1M		1.1	•	/ / .	
AGE00147705.csv	2020-07-28 08:00	2.4M	•	https://www.ncei.noaa.gov/data,	gov/data/d	ail	
AGE00147706.csv	2020-07-28 08:00	1.0M	sum	summaries/access/			

### meteo\_nearby\_stations()

- In "rnoaa" package
- Get all stations within given radius
- Get nearest x number of stations

## Hopefully useful links

#### Global Historical Climate Network Daily

https://www.ncdc.noaa.gov/ghcn-daily-description

https://www1.ncdc.noaa.gov/pub/data/ghcn/daily/readme.txt

https://www.ncei.noaa.gov/data/daily-summaries/

https://www.ncei.noaa.gov/metadata/geoportal/rest/metadata/item/gov.noaa.ncdc%3AC00861/html