SVP

CTD

Dec. 17/18

Hycom

- Thredds, FTP, OpenDAP
- $\frac{1}{12}^\circ$ resolution (taken from RTOFS?)
- Temp ✓, Sal ✓, Depth ✓
  - ↳ multi levels: 0-5,000m @ 32 lvls
- ↳ Implemented in RTOFS.
- Archive access possible
  - ↳ However files are huge!

WOA18 (NOAA)

- THREDDS, Live Access, HTTPS, FTP, Geoportal
- $\frac{1}{4}^\circ$ and 1° lat/lon res.
- Temp ✓, Sal ✓, Depth ✓
  - ↳ multiple levels: 0-5,500M @ 102 levels
- NetCDF, CSV, ArcGIS Shp, WOA ASCII
- Query: location, date, temp, Sal
  - ↳ WOD * No files for 2018 ~~05-8~~ 1956 Downloaded

- WOA18, WOA13

* Try downloading data for 68.62016705, -95.87638889 @ 2018, 08, 02 + Send to CIOOS

- uses real ~~the~~ CTD casts and averages.

Download from Thredds Server:

3 Files:

- SSH.nc → Not useful
- TS3z.nc → has Sal, Temp, lat, lon, Depth
- UV3z.nc → velocity, not useful.

↳ 2 resHS: [1956, 1957 CTD]

[2000, 2000 CTD]

month 08-09

68-69; 95-96

RTOFS (Navy)

- FTP, HTTP
- $\frac{1}{12}^\circ$ Global model
- Temp ✓, Sal ✓, Depth ✓
  - ↳ multiple levels: 0-5,500m @ 41 levels
  - → 100m in arctic
- NetCDF, OPeNdap
- Query: Temp, Sal, loc, date
- Implements Hycom!
- No archive access that I saw.

Jan. 2019 - Use Hycom dataset - Familiarize w/ data layout - unit/use download script.

- 916 a vs. 6

input: lat, lang, time.

look at their grid.

Thredds: does not download, Simply view

Hydroffice: Sound Speed Manager.

Validate: real CTD cast → ars or WOA. → Beaudoin paper off SVP.

Hycom: analysis vs. reanalysis → use analysis and GOFS 3.1 → Akima 2a Cubic Spline.