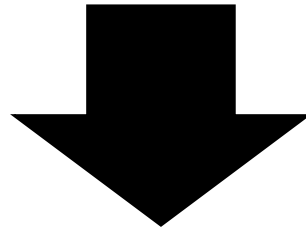# Oceanographic Datasets:
Views from GLOOFINZ-IO

Tom Kelly

tbkelly@alaska.edu

Objective 4

Objective 4: Description of the oceanography of the SBT and co-occurring tuna larval spawning ground including climate change effects.

Objective 4

Objective 4: Description of the oceanography of the SBT and co-occurring tuna larval spawning ground including climate change effects.
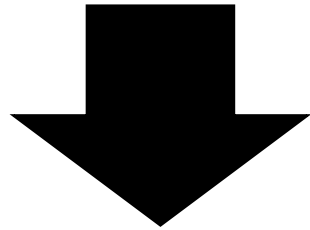
What are the physical drivers?

How do they impact the plankton community?

How does the physics + community impact BFT?

Objective 4

Objective 4: Description of the oceanography of the SBT and co-occurring tuna larval spawning ground including climate change effects.

What are the physical drivers?
How do they impact the plankton community?
How does the physics + community impact BFT?

What data do we have?

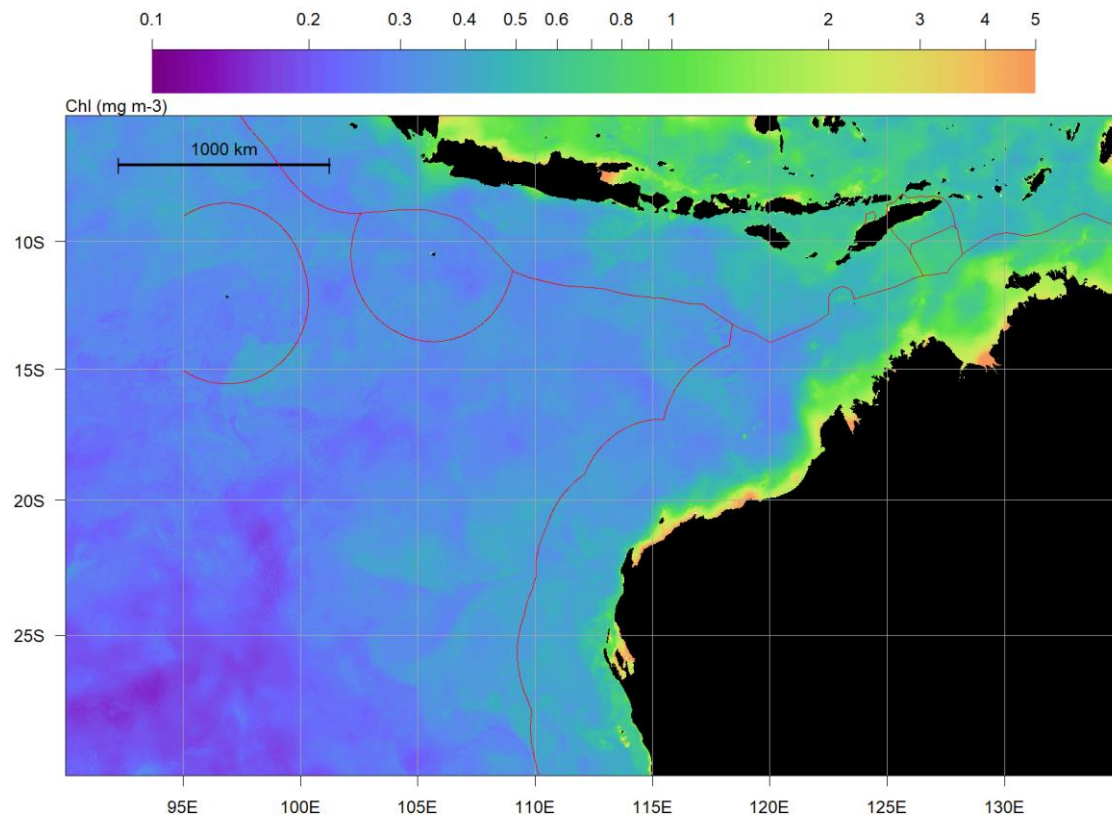**What tools will we use?**

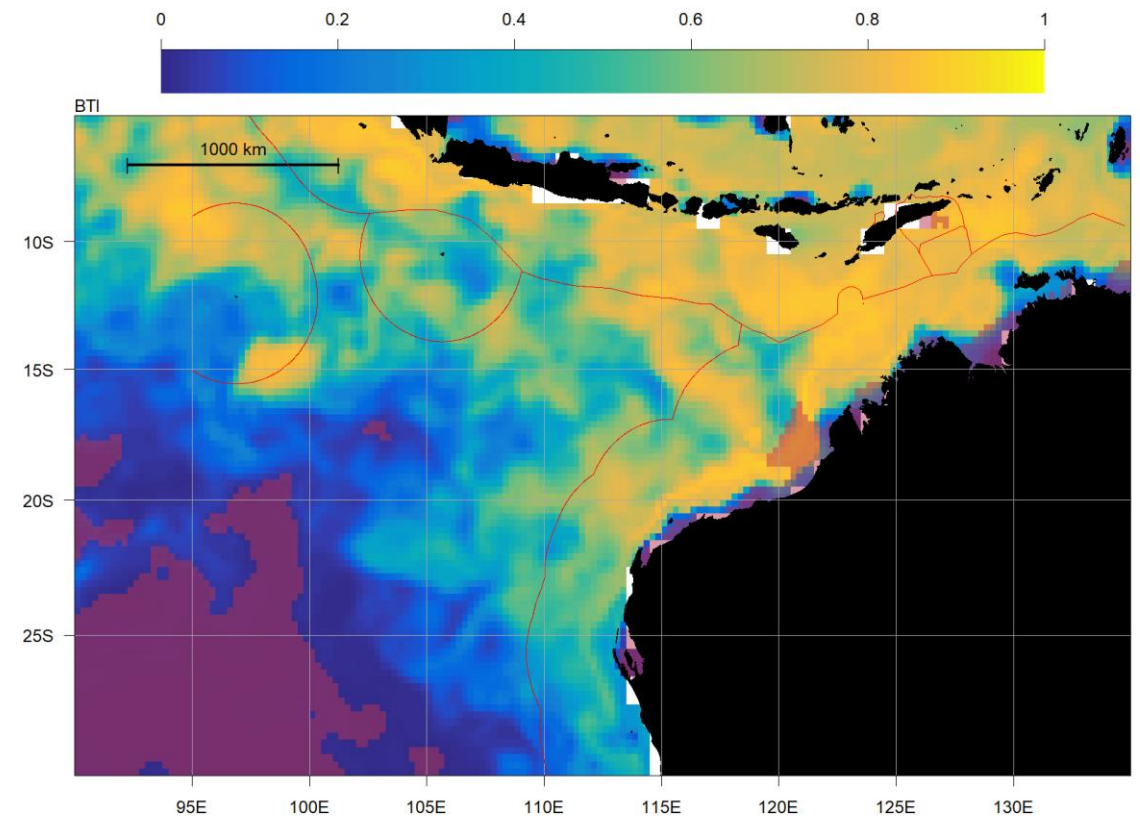# Eastern Tropical IO: Overview
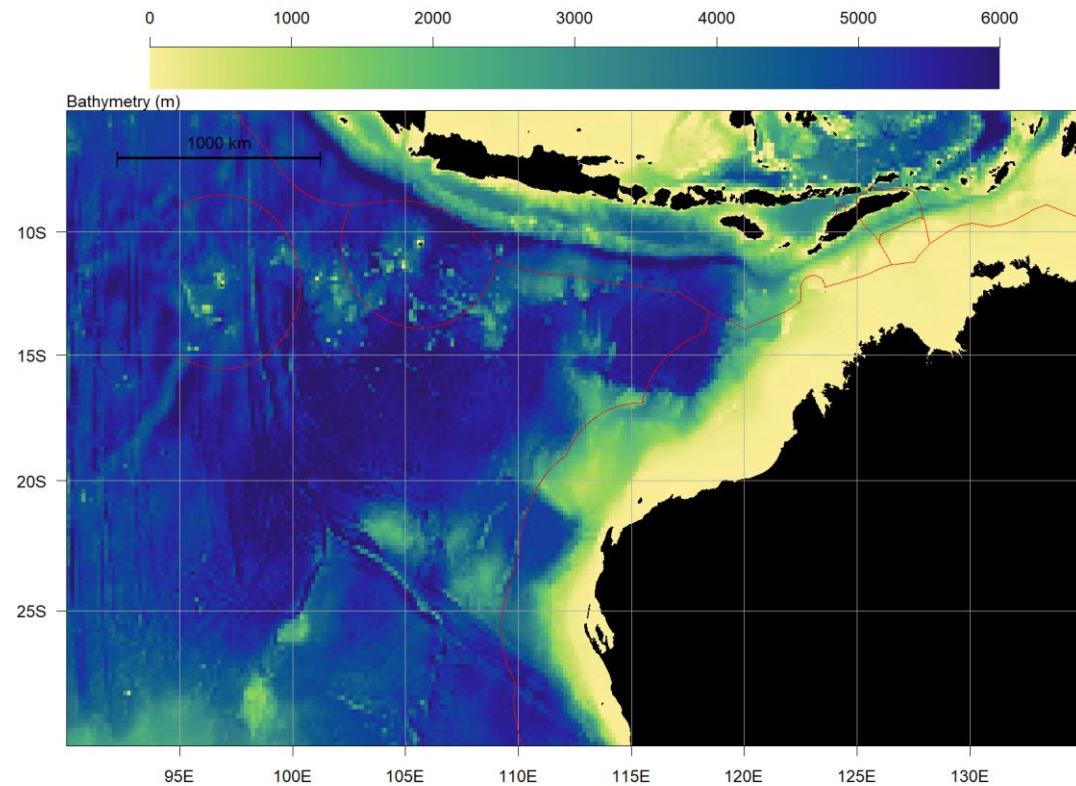
Bathymetry
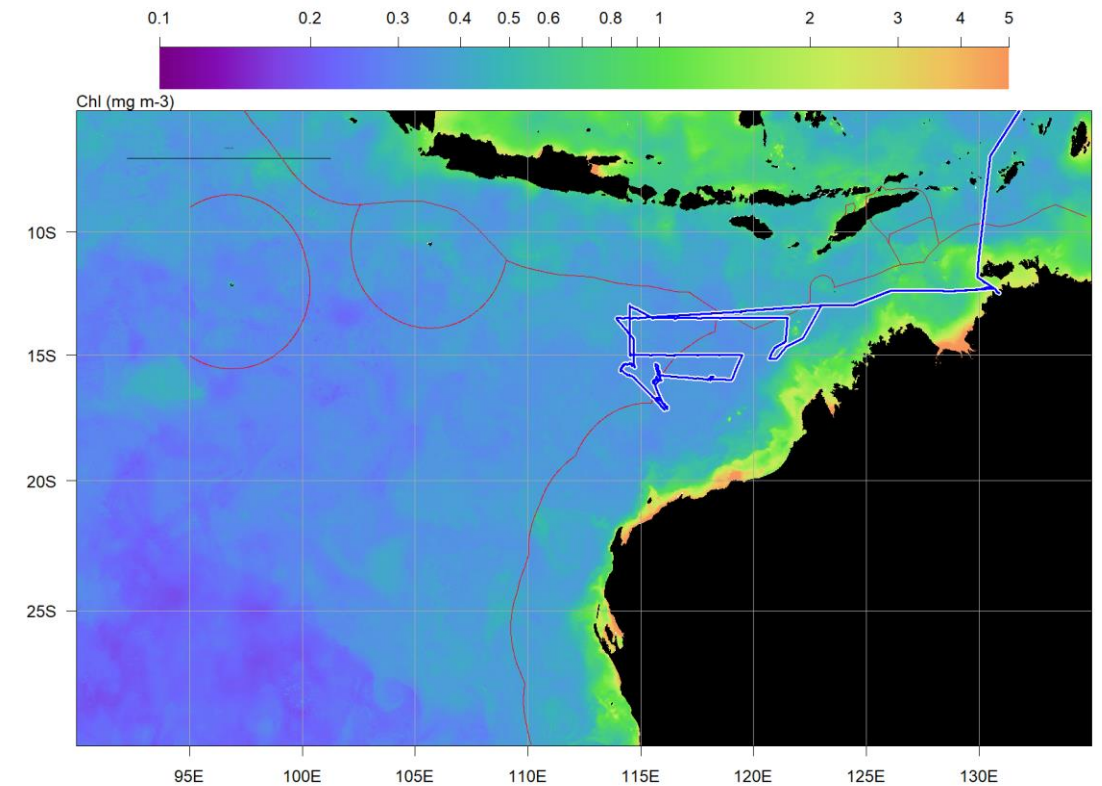
SS Chl-a Product (March 7, 2022, ESA)

Eastern Tropical IO: Overview

Satellite Chl Product

BTI (Muhling et al, 2010)
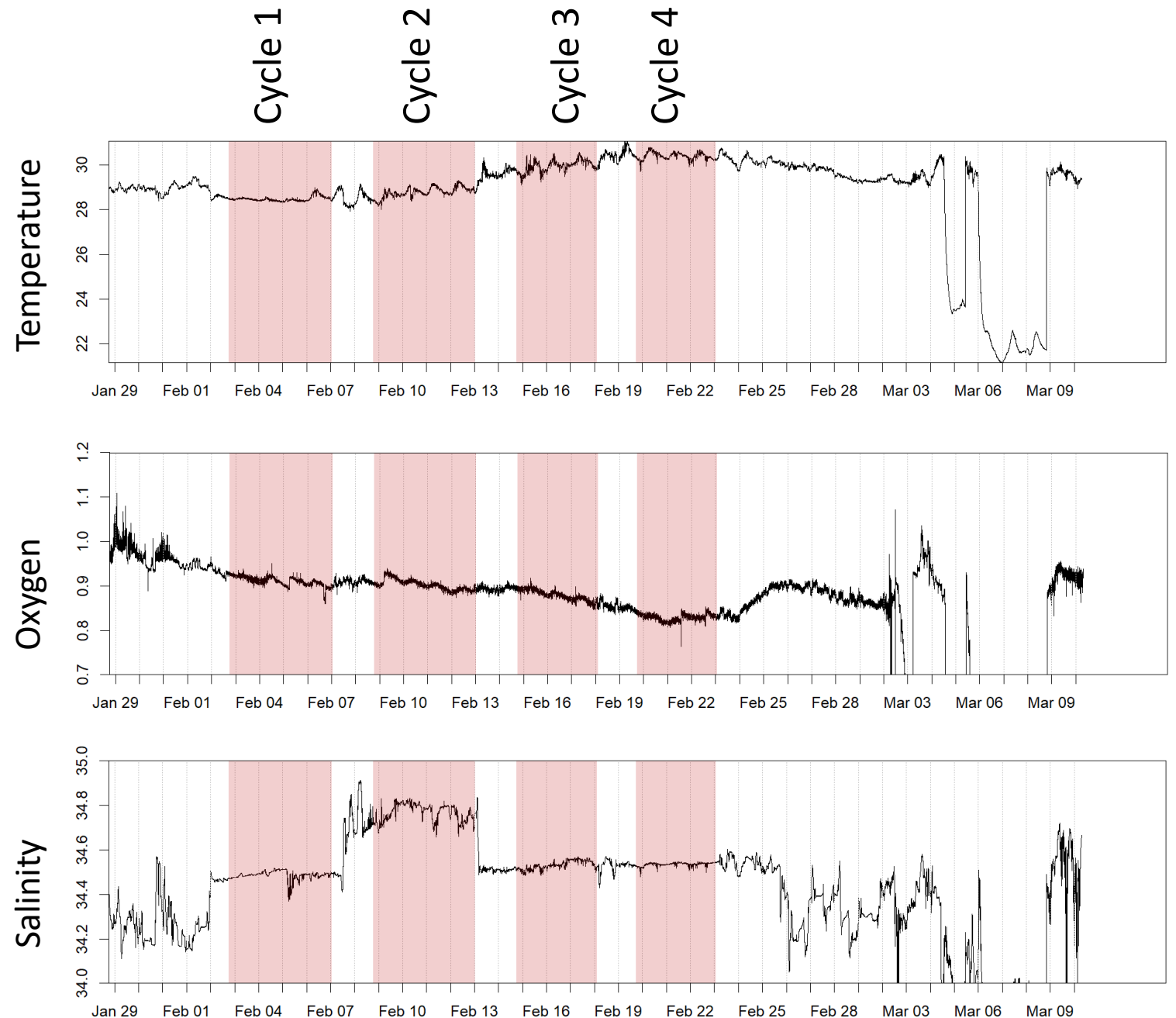
& Underway

Met.xlsx
- Underway T, S
- Fluorescence
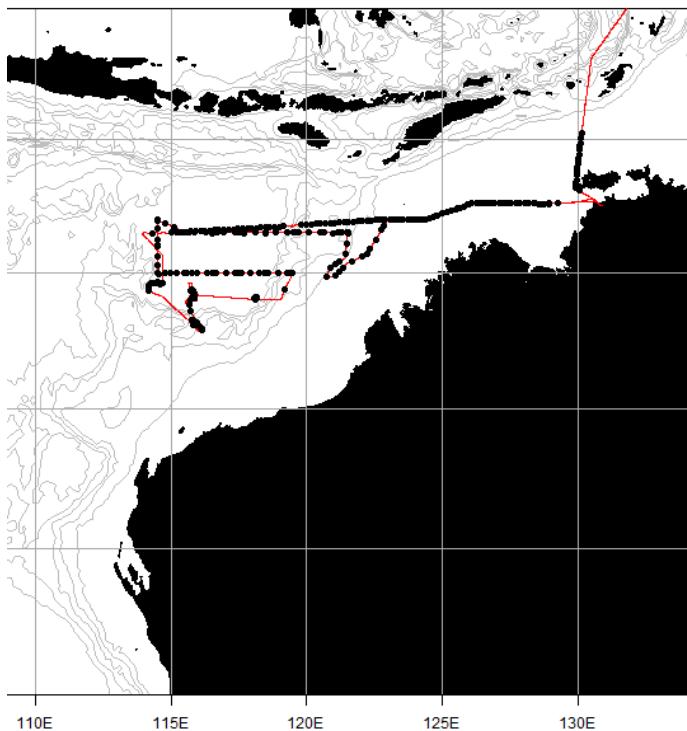- Wind
- PAR
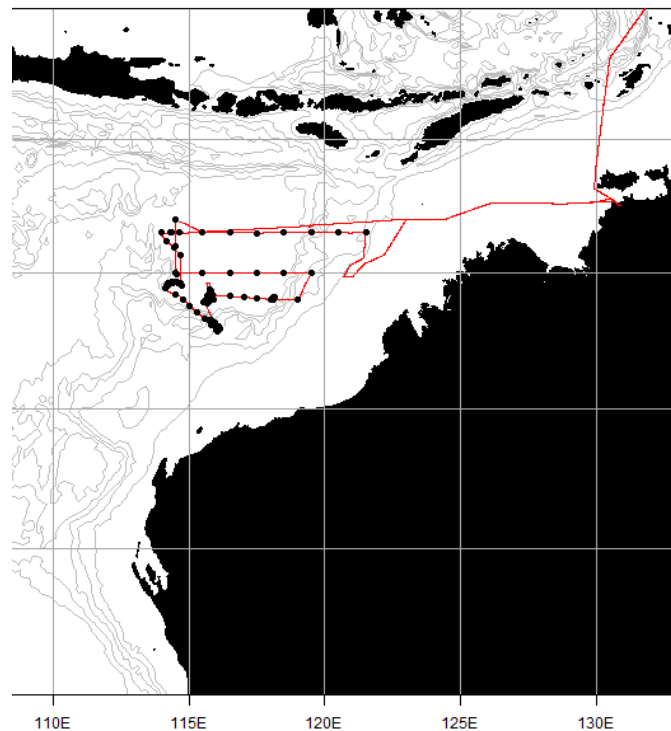- Air temp, etc.

Ship Track.xlsx
- Ship position

Also,
- Satellite products (SST, Chl, ssh)

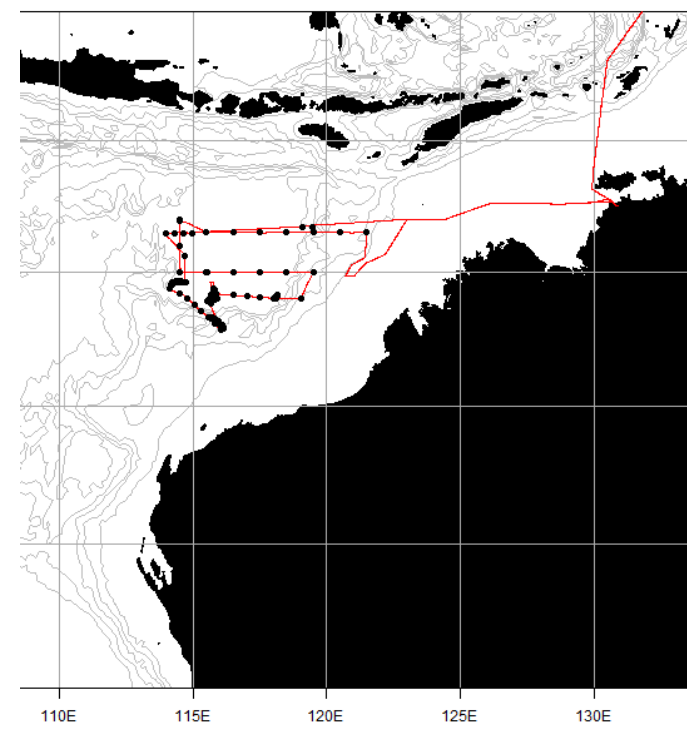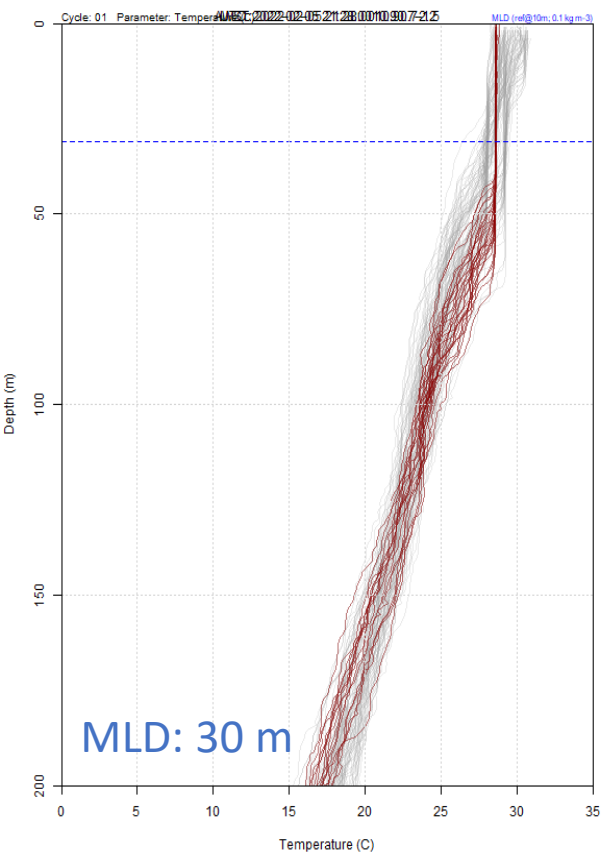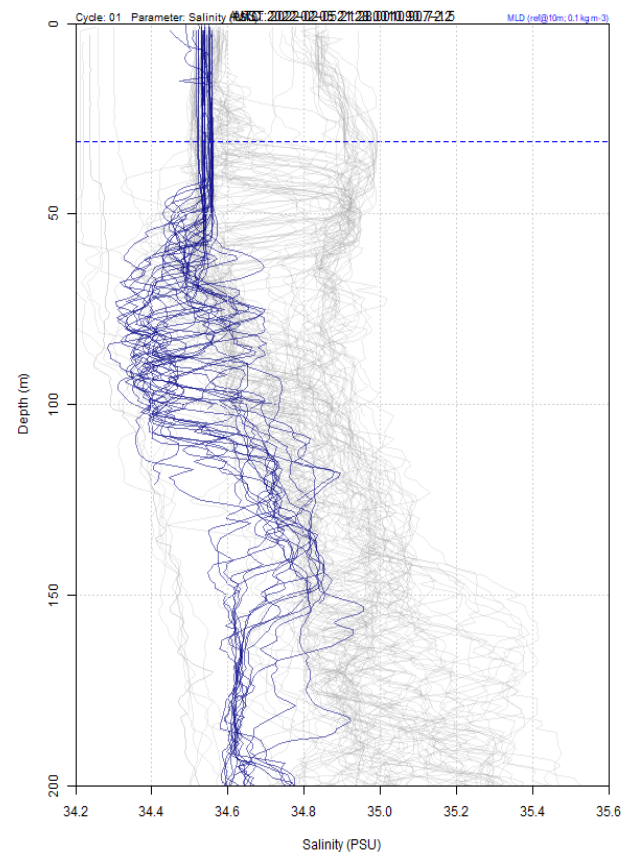# What else did we do?
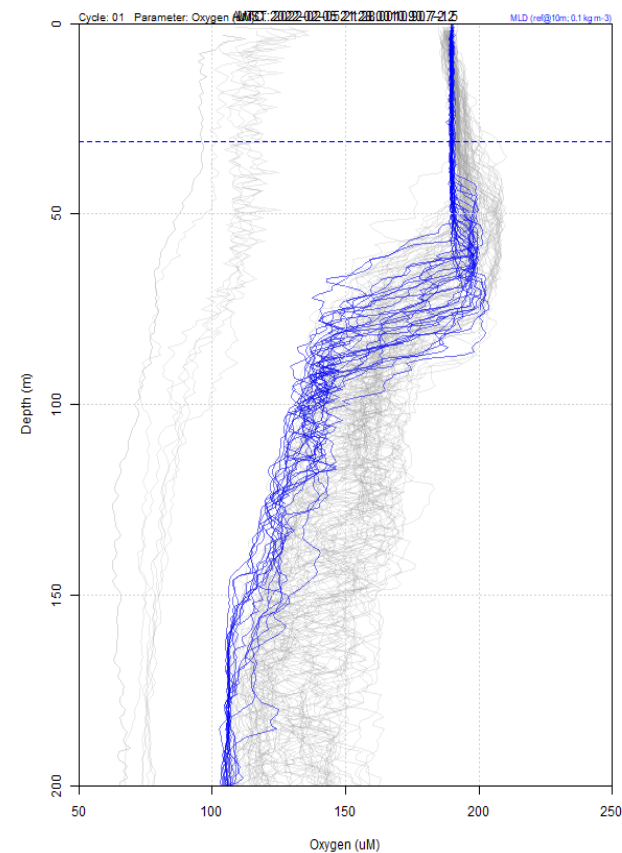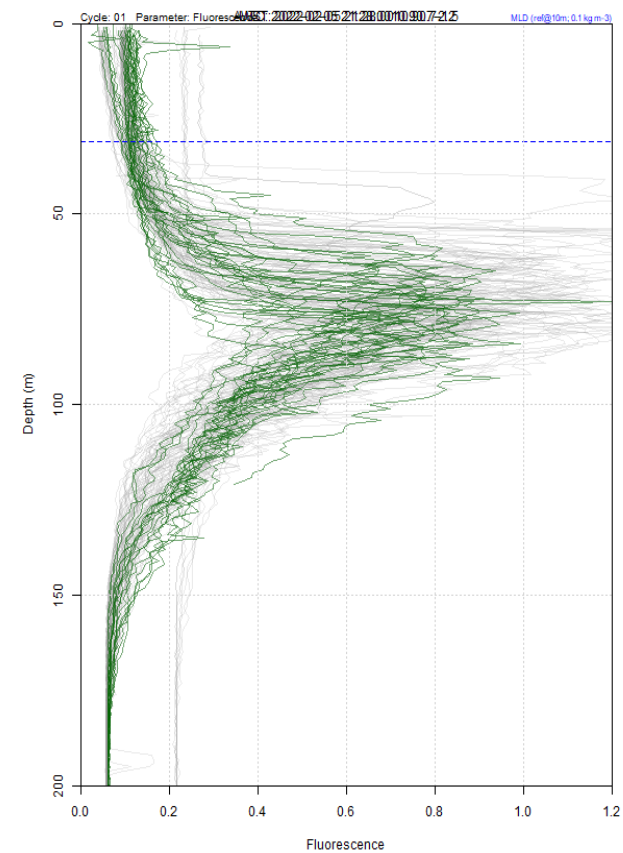

Flowthrough

Bongo 90

CTD

Cycle 1

| Temperature | Salinity | Oxygen | Fluorescence |

MLD: 30 m
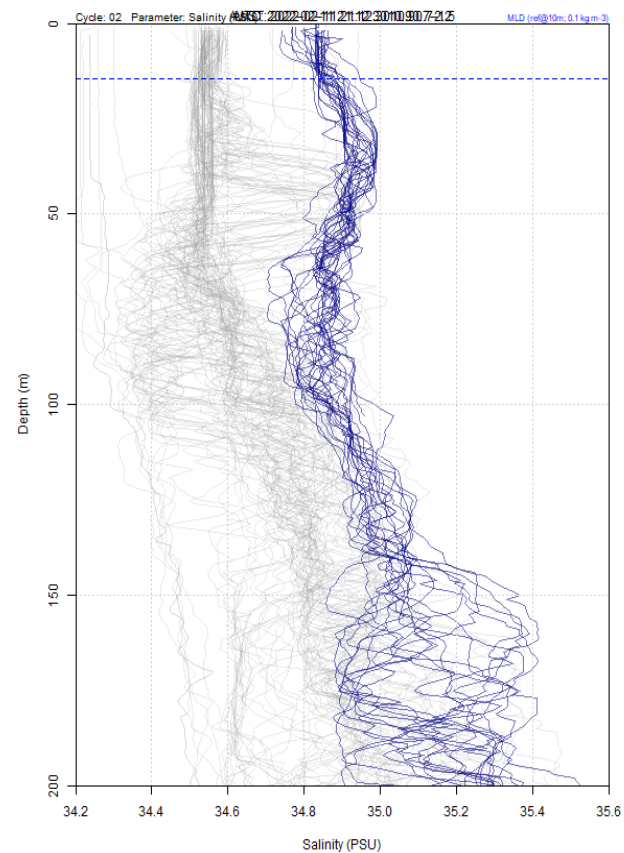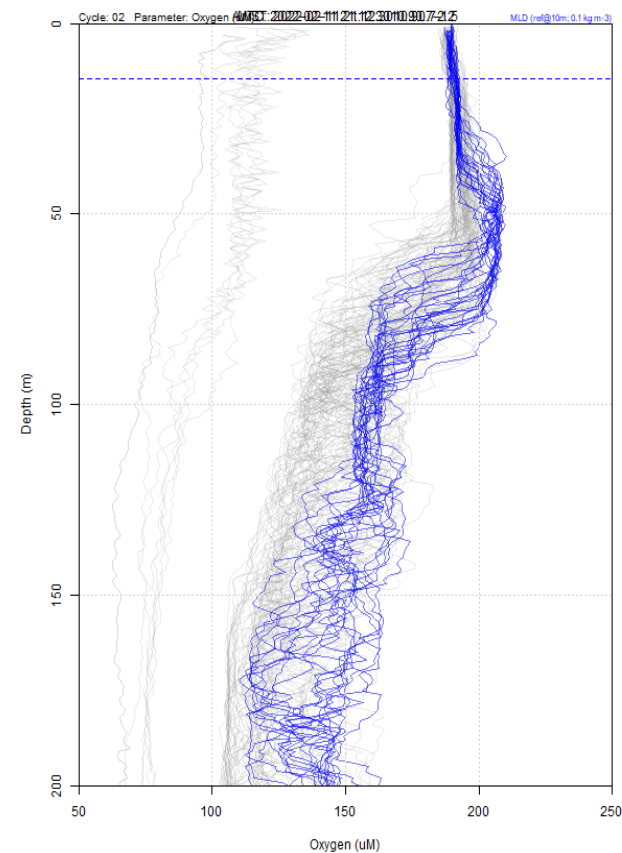
Cycle 2

Temperature — Salinity — Oxygen — Fluorescence

MLD: 15 m
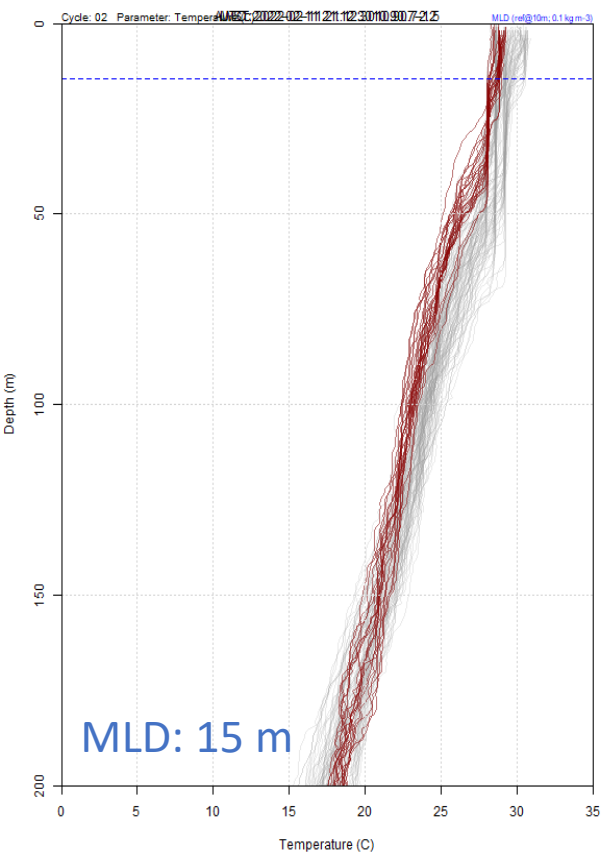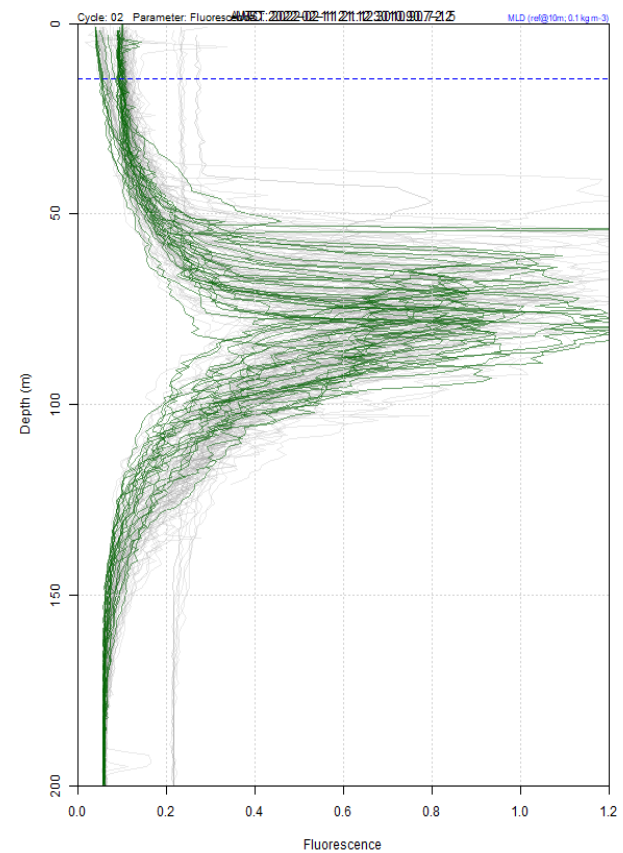
Cycle 3

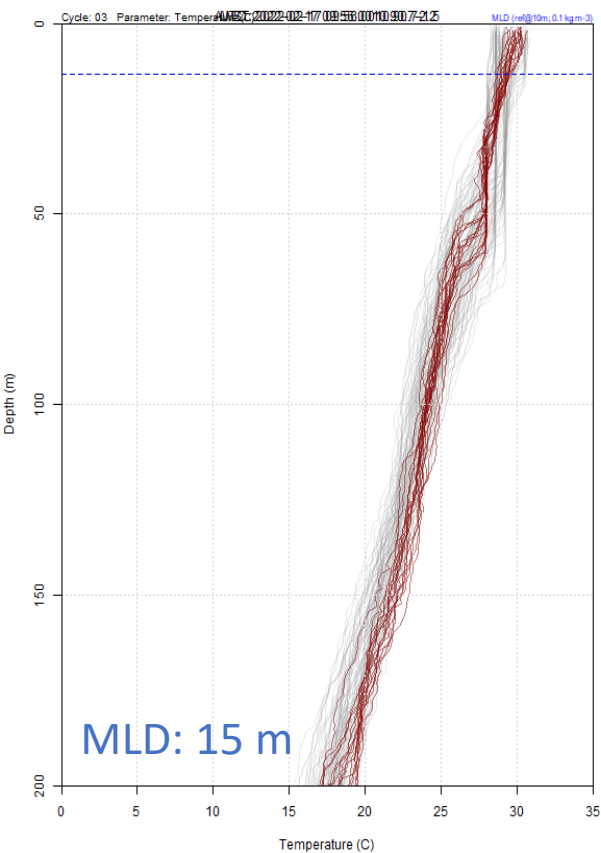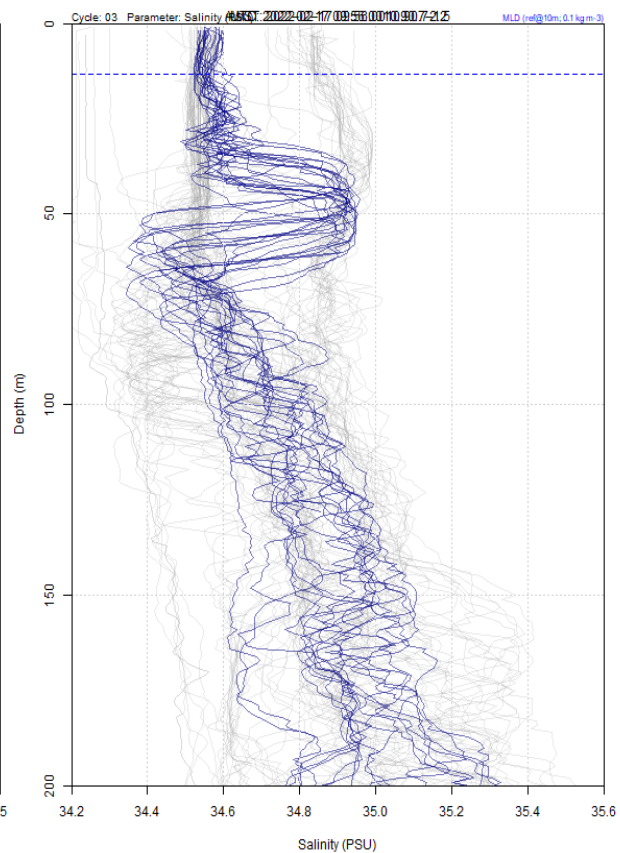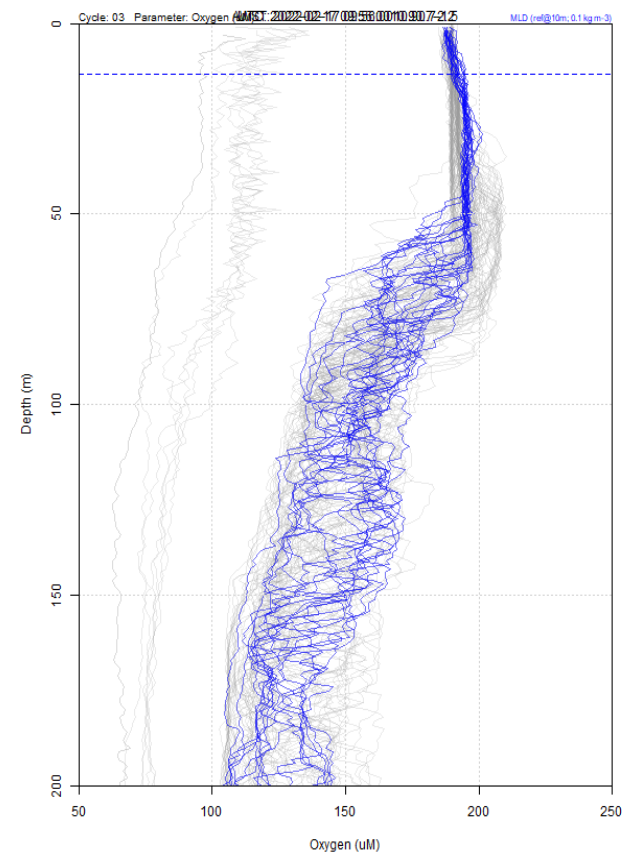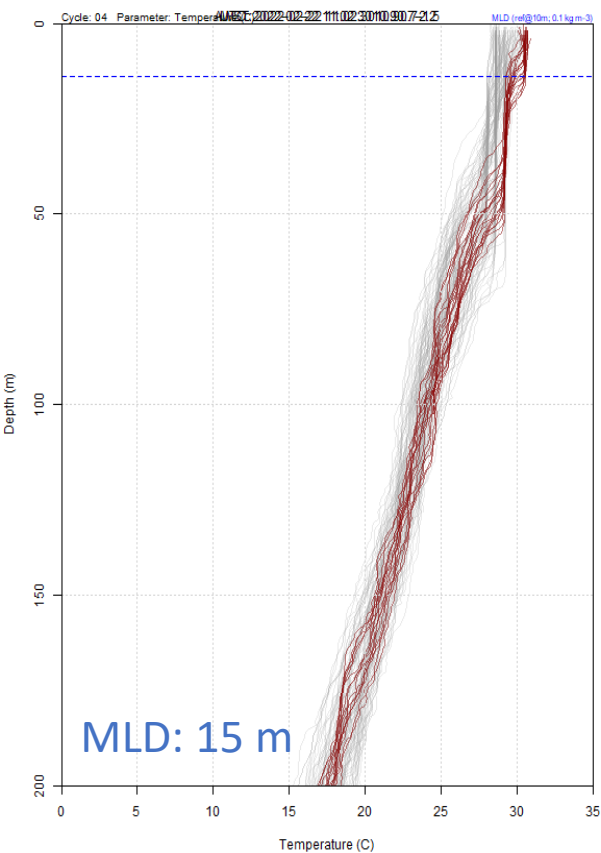Temperature   Salinity   Oxygen   Fluorescence
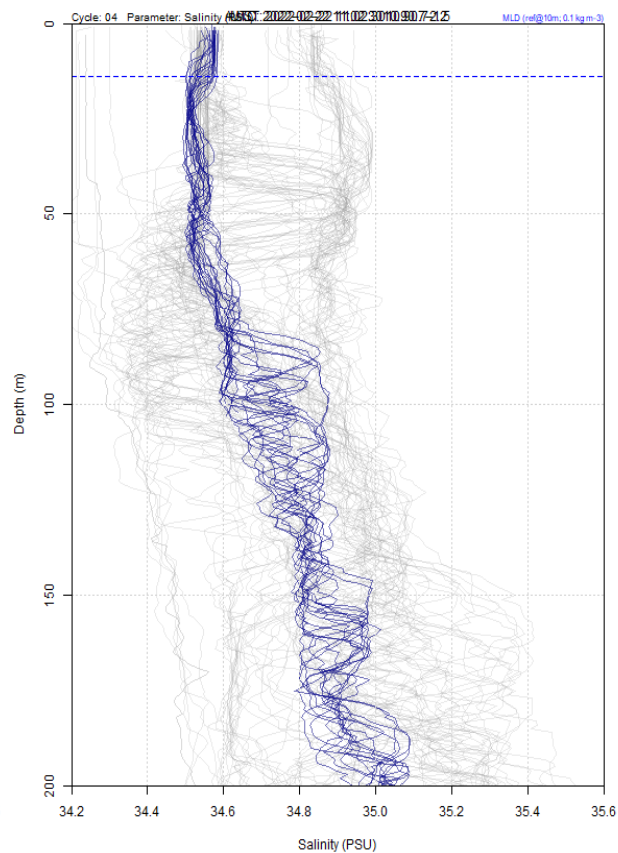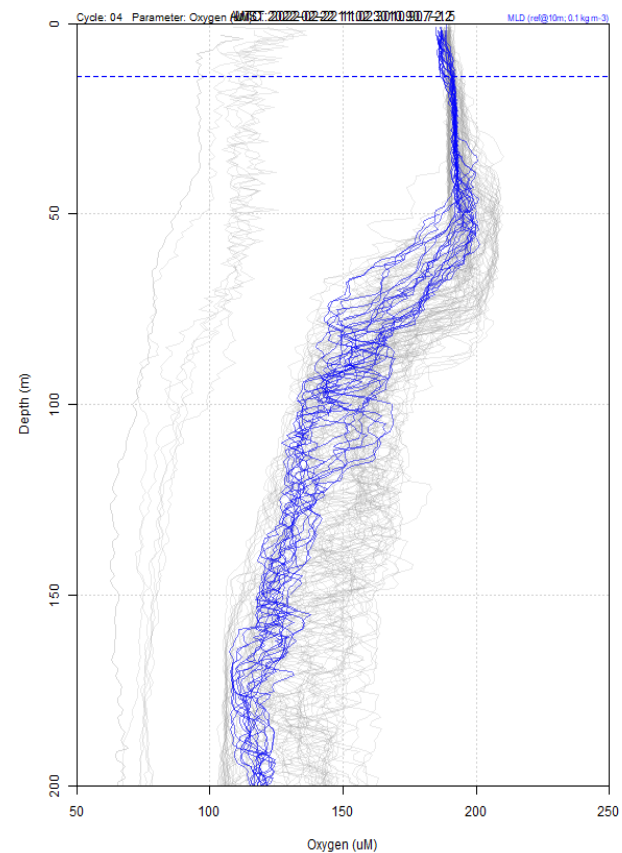
MLD: 15 m
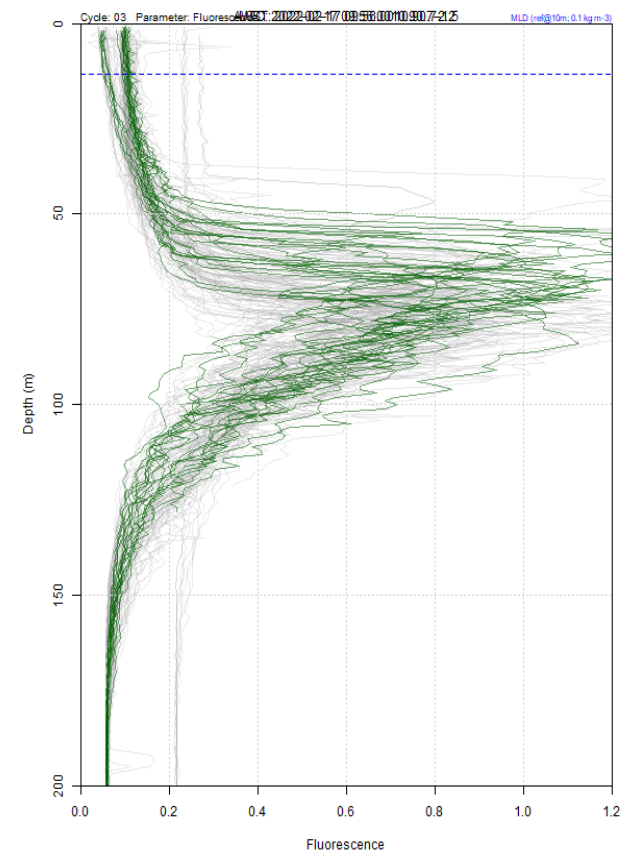
Cycle 4
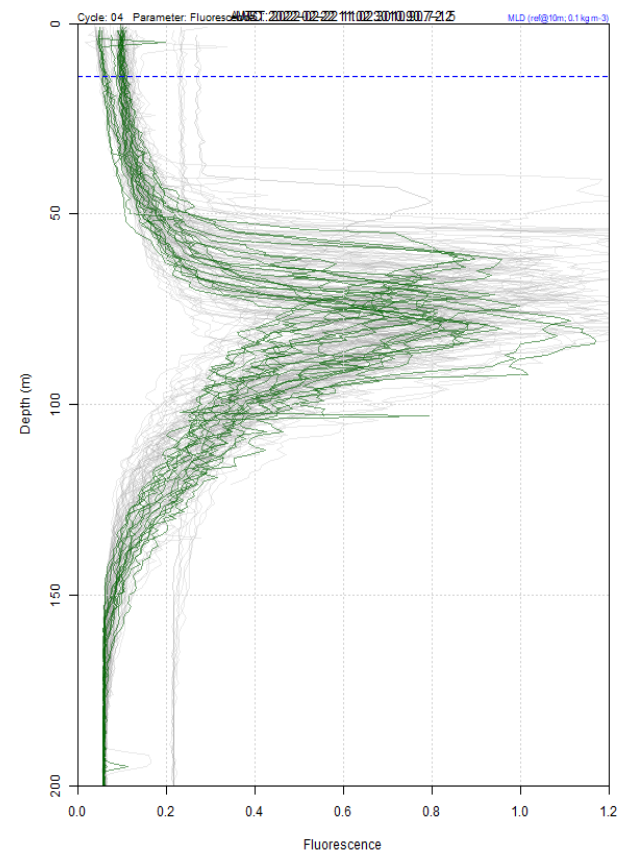

Temperature   Salinity   Oxygen   Fluorescence
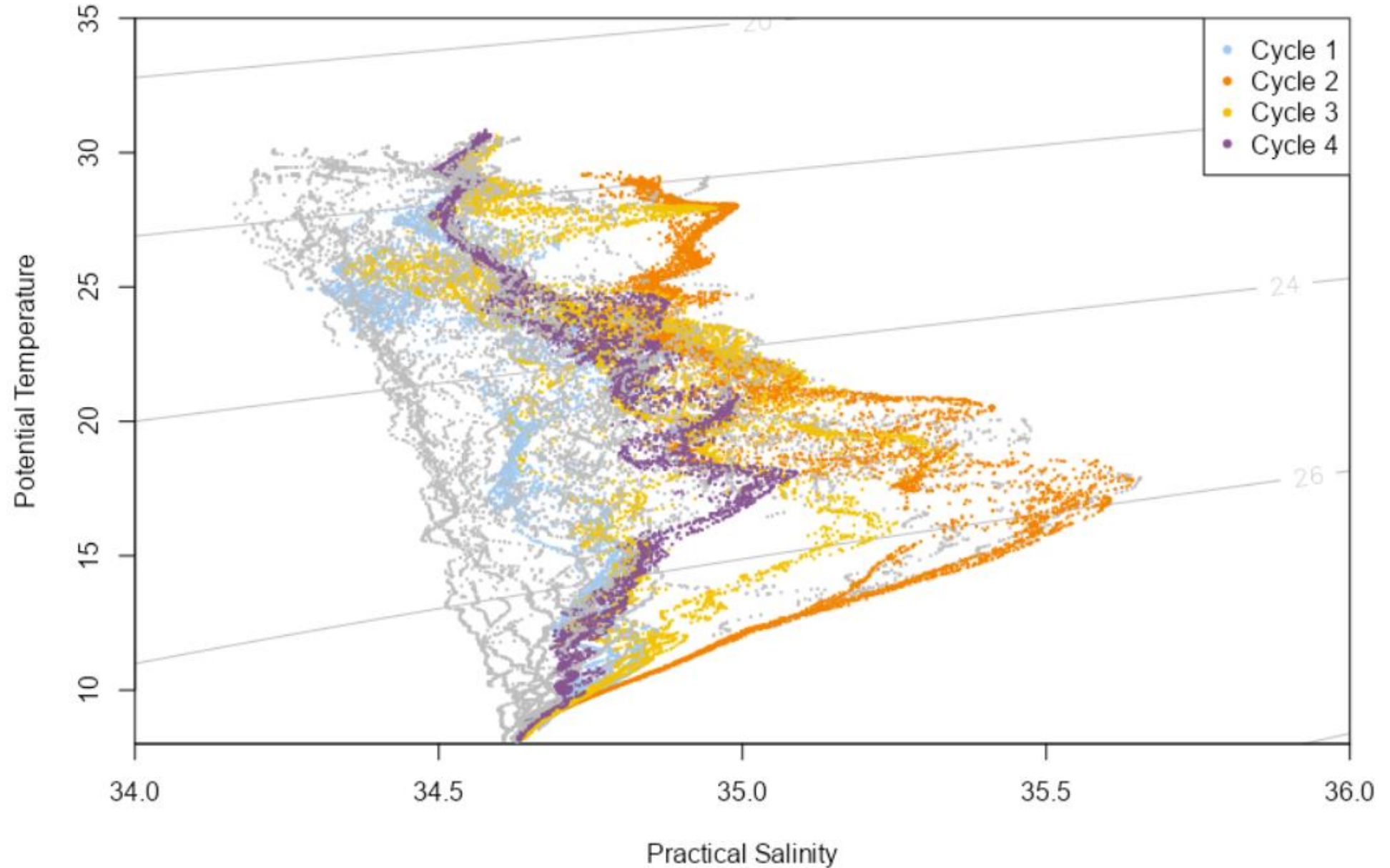
MLD: 15 m

Water Masses

Looking at T and S space:

Cycle 2 stands out as saltier (surface -> deep)

Lots of subsurface structure overall

Water Masses

Looking at T and S space:

Cycle 2 stands out as saltier (surface -> deep)

Lots of subsurface structure overall
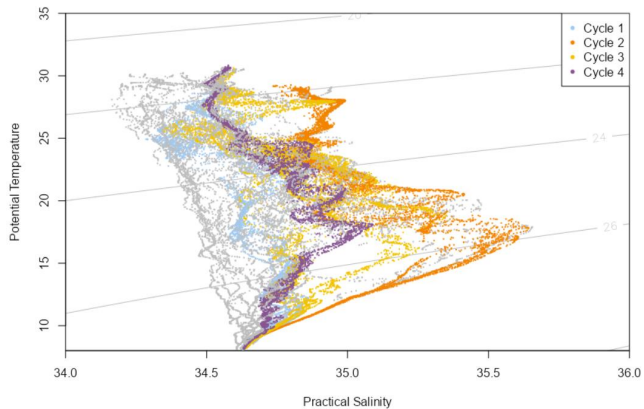
2017

2018

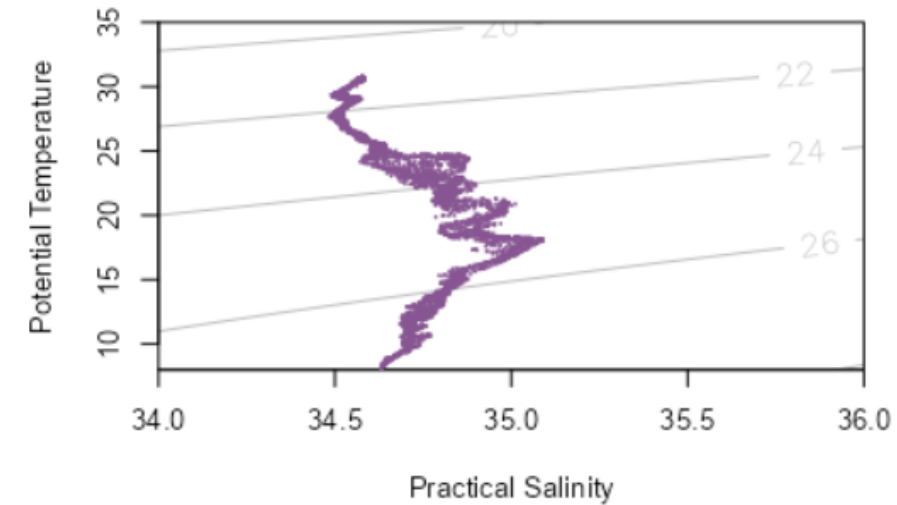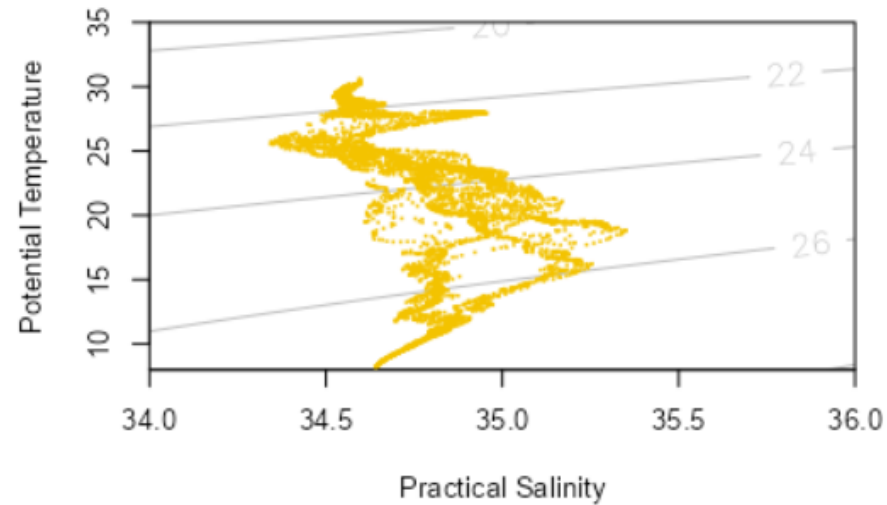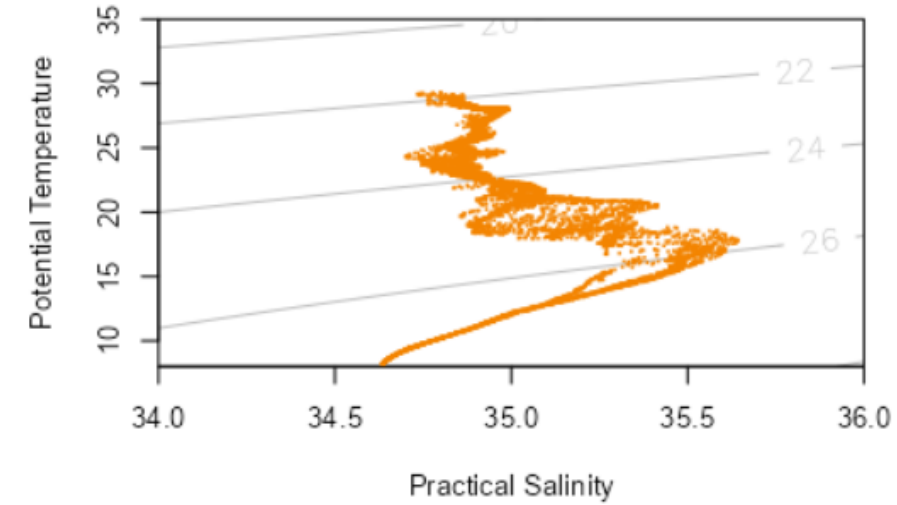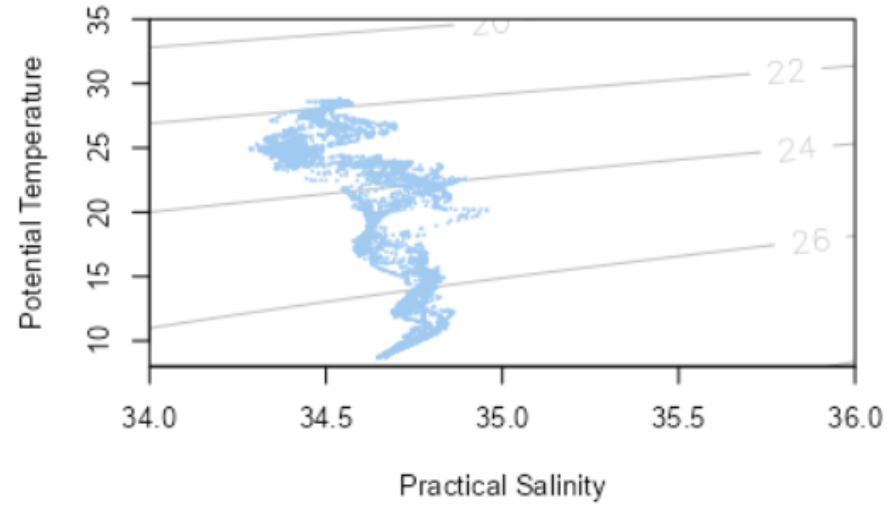# Where to find it

Project specific Google Drive

Contains
1. Copy of ship data [data, at sea]
2. Copy of science share [share, at sea]
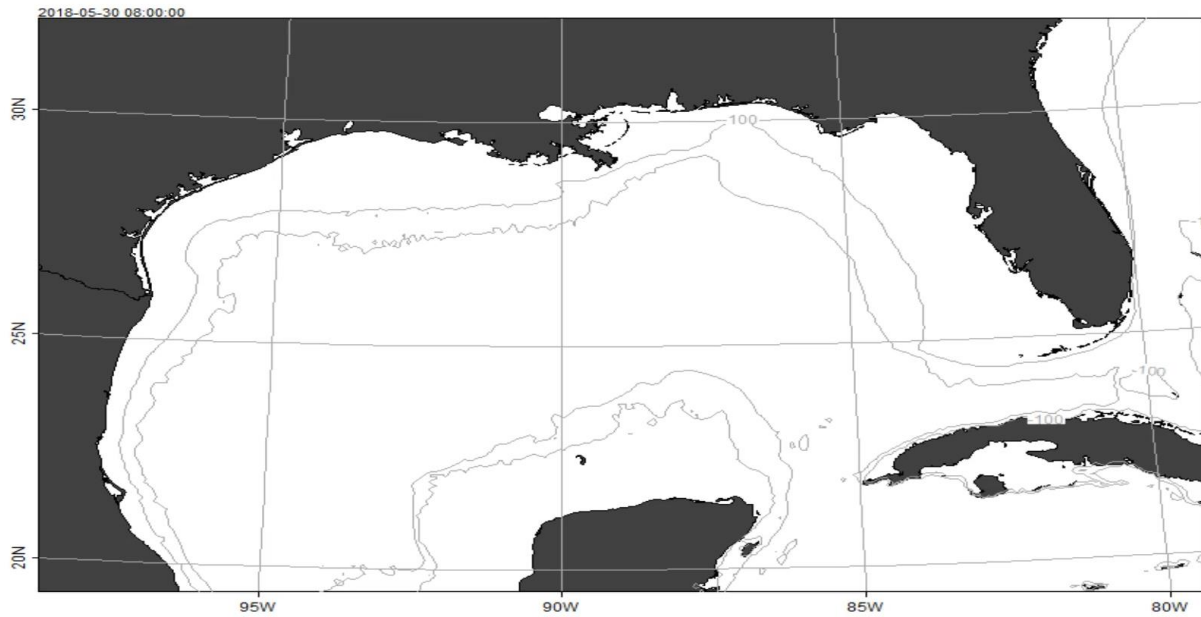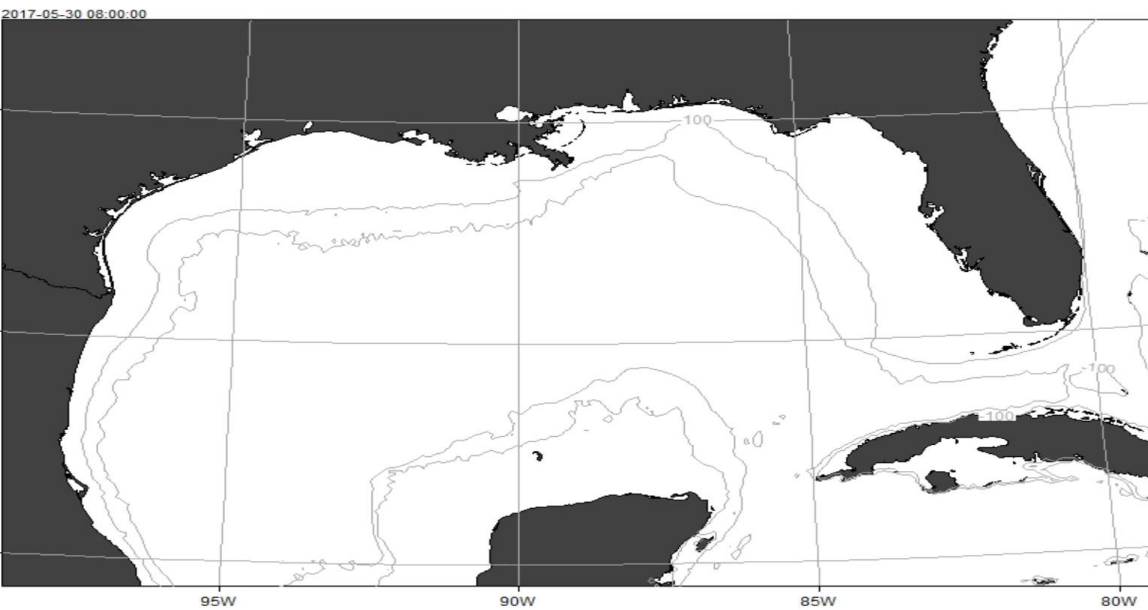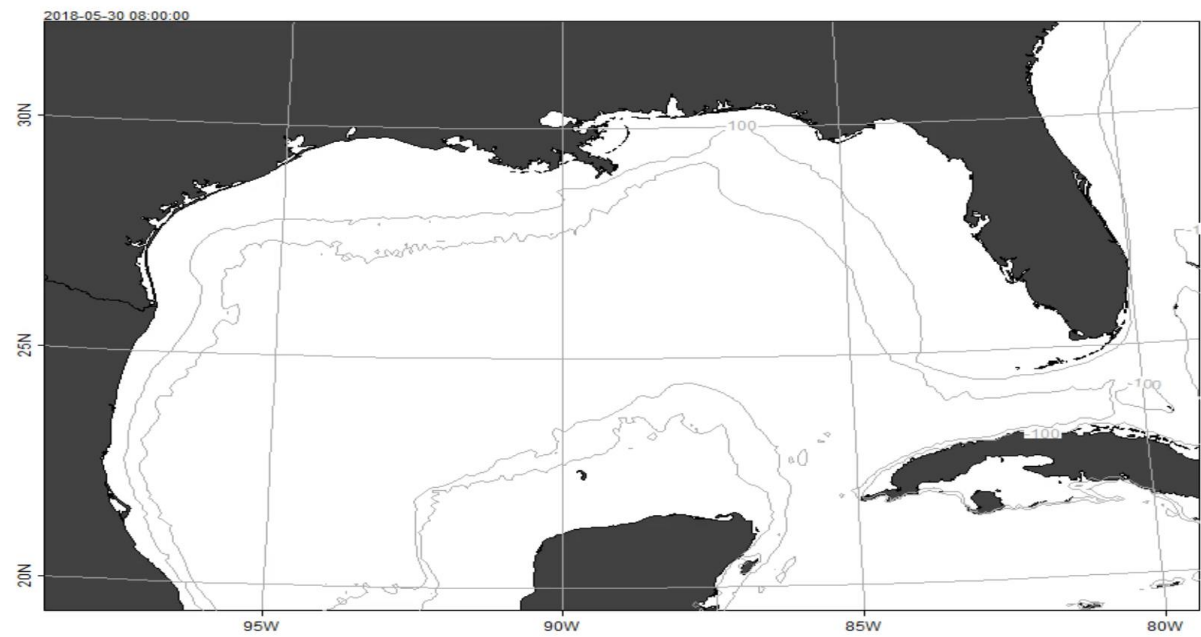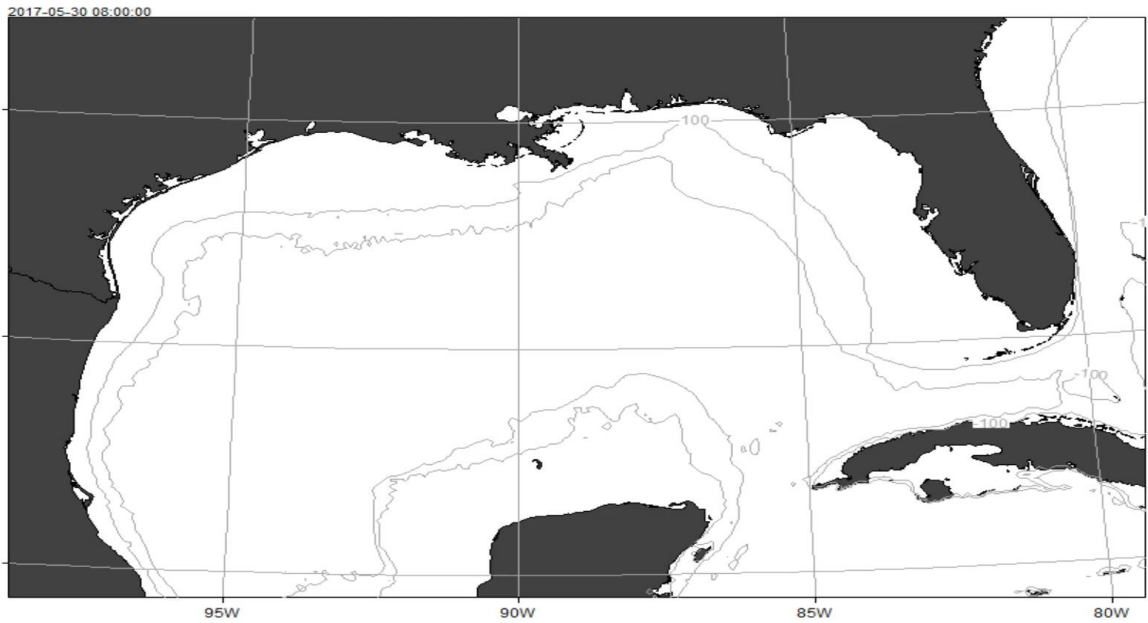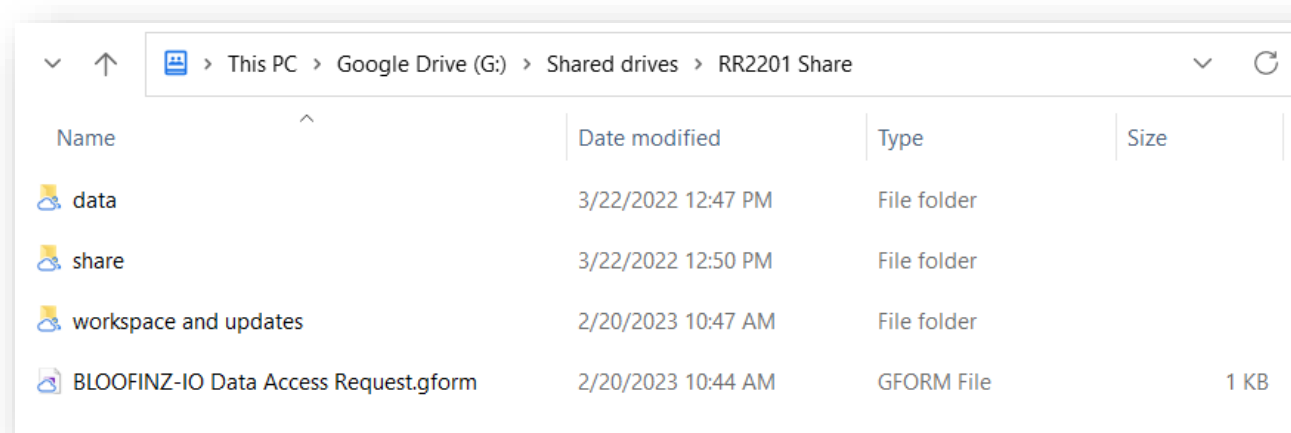3. Collaborative workspace

Where to find it

→./RR2201 Share
  →./Share
    →./Kelly
      →./CTD
        →./Publish

Containing:

Downcast.xlsx	Downcast profiles
Allcast.xlsx	Both up and down casts
Bottle.xlsx	Bottle summary
./Plots	Plots of every CTD variable

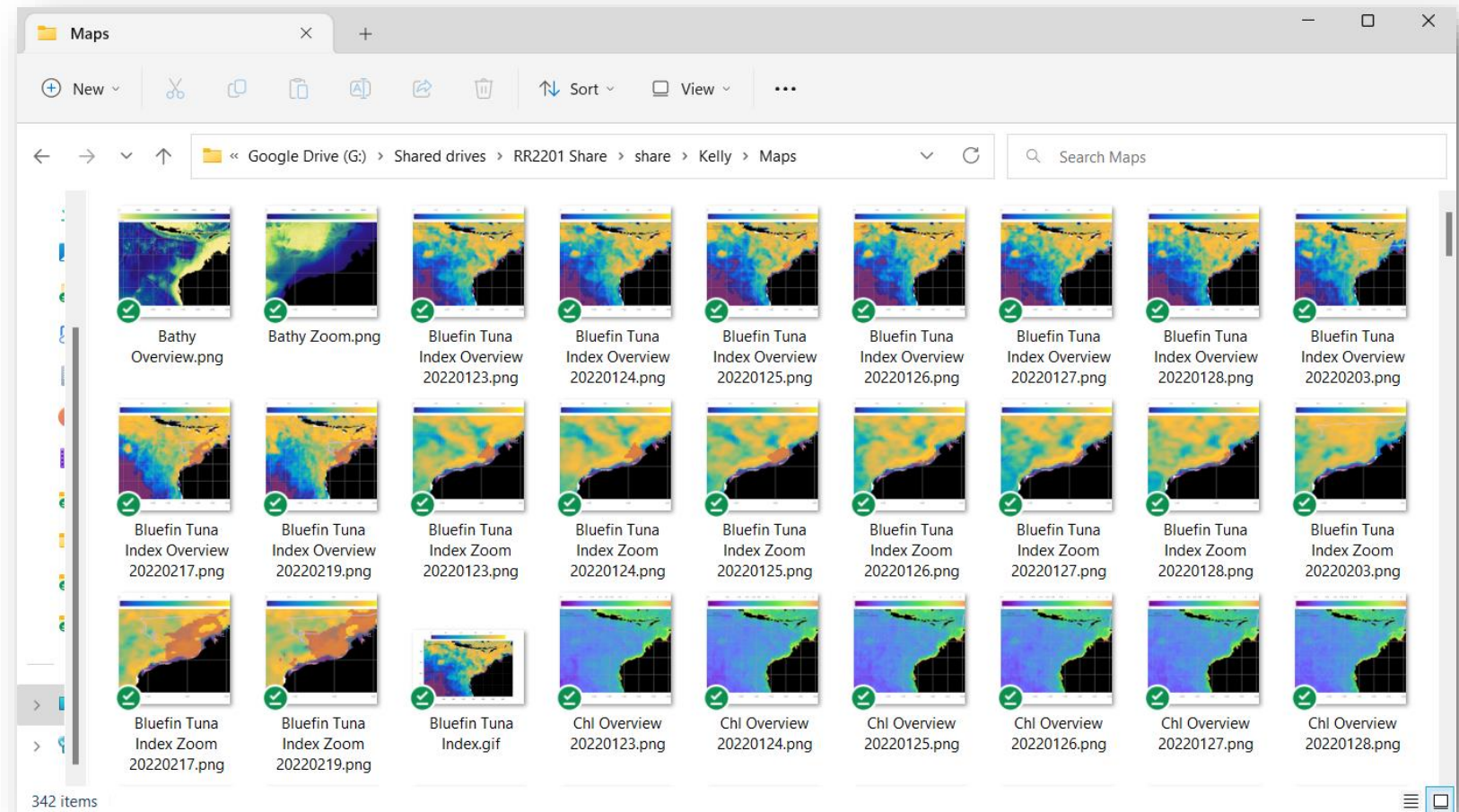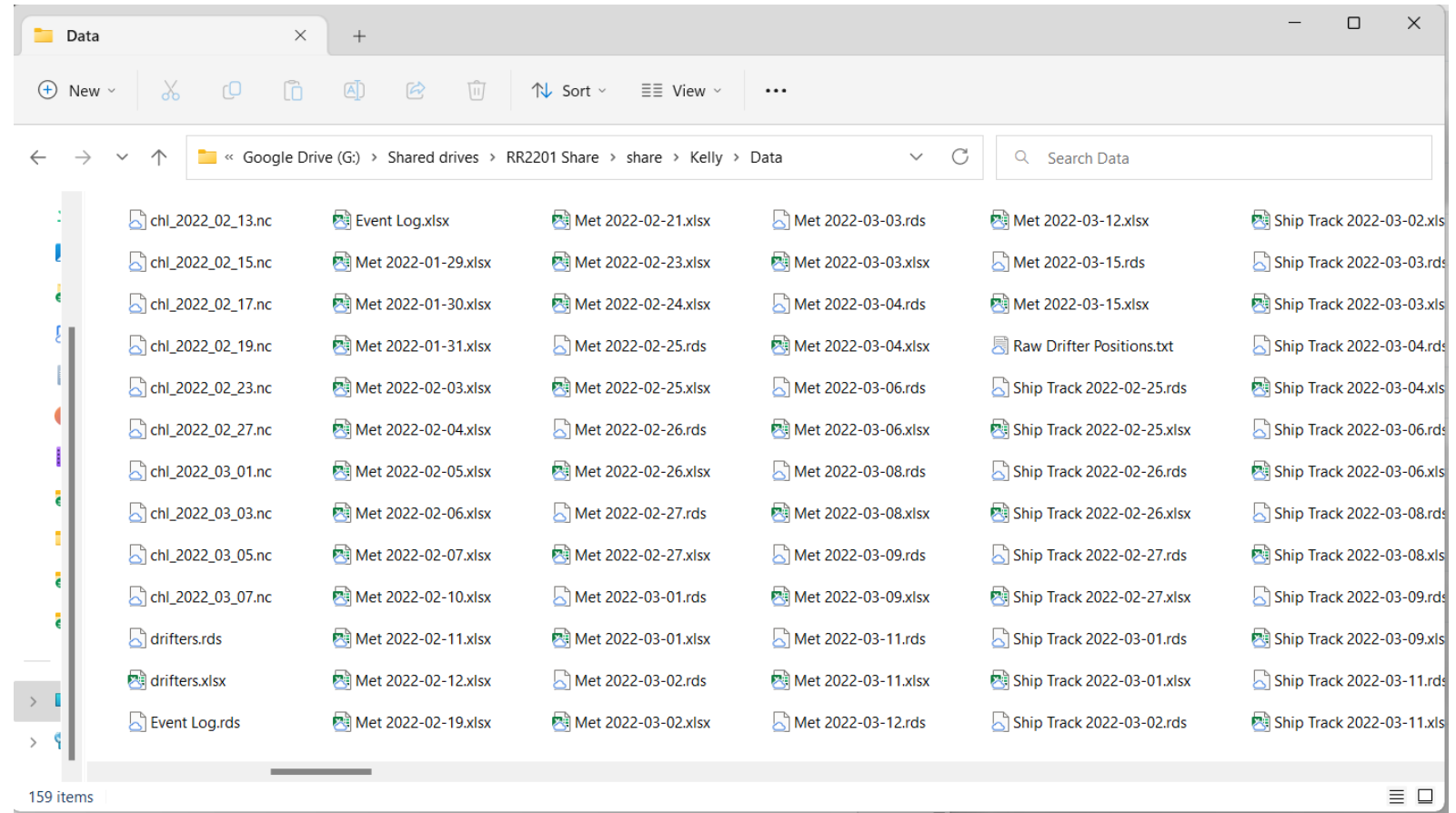# Where to find it

→./RR2201 Share
→./Share
→./Kelly
→./Maps

Where to find it

→./RR2201 Share

→./Share

→./Kelly

→./Data

Where do we go from here?

Have lots of data…

→ How do we want it organized?
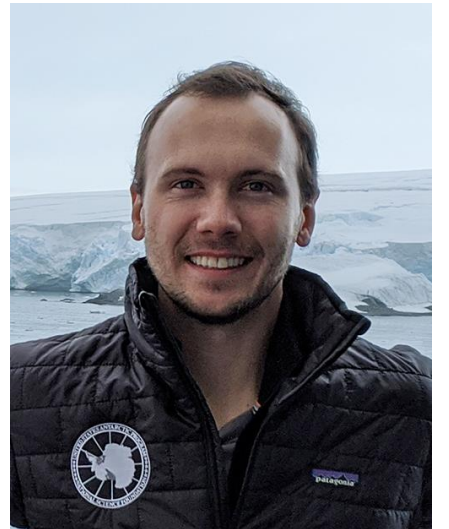
→What are our questions and tools?

Where do we go from here?

Have lots of data…

→ How do we want it organized?

→What are our questions and tools?

Contact me:

Thomas Kelly
tbkelly@alaska.edu