Pre-Processing

1 summary

same as before to check which sensors are working

↓

summary.mat
summary.png

2 temperature

a **temperature time series** is generated from the chipod raw data
shoud also include heading and pressure and other stuff??

↓

temp.mat

3 vel_p

2 substeps:

1 determine V0 (C0) to generate cal_p.mat

2 calculate a velocity time series

↓

vel_p.mat
cal_p.mat

4 dTdz_i

this step applys **only surface pumped chipods**. The vertical stratification is calculated by fitting T to the vertical displacement of the chipod

↓

dTdz_i.mat

5 dTdz_m

use **mooring data** to generate stratification vector containing **N2 and dTdz** interpolated on chipod depth

should also include temp.mat from step 2

↓

dTdz_m.mat

6 vel_m

use **mooring data** to generate **velocity vector** interpolated on chipod depth (ADCP or current meter)

↓

vel_m.mat