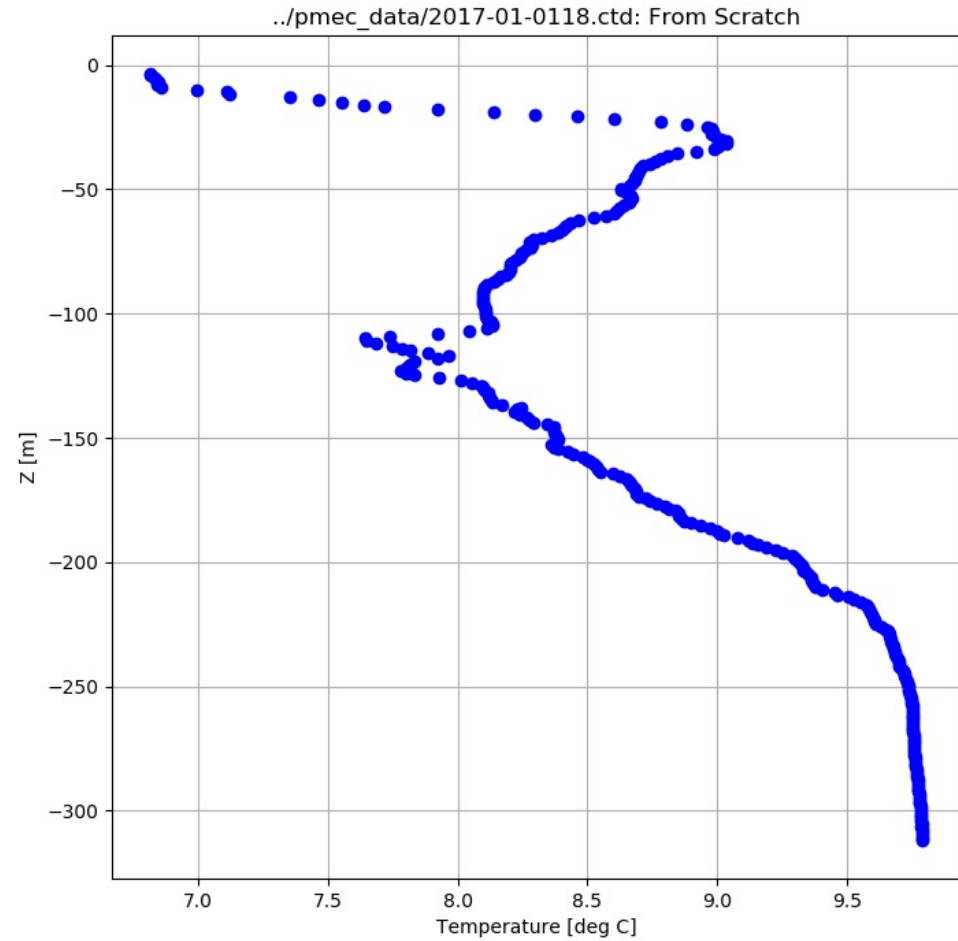


# Data plotting exercise



# Goal: Make a plot of Temperature versus Depth from the CTD Data

- Write a program in [mydir] that reads in [mydir]\_data/2017-01-0118.ctd and saves lists of depth and temperature
  - HINT: the data starts around line 571 (counting from 1)
  - HINT: the header describing the columns is just above that line
  - HINT: use `line.split()` to make a list out of the items on a data line = \*, and then you can get at individual items in \* by indexing
  - HINT: you can initialize an empty list for storing depth or temperature using `"my_list = []"` and then append items to it using `"my_list.append(item)"`
  - HINT: convert things to floats using `"float([some string from *])"` when appending them to your data lists
- Plot as  $x = \text{temperature}$ ,  $y = -\text{depth}$
- Save the plot to [mydir]\_output/out\_test\_1.png
  - HINT: use the `shared/my_module.make_dir()` method to make sure the output directory exists

# Extra credit

- Do the same thing using the pandas "read\_csv" method.

# My version - for reference

- is in the Files in my repo: `pmec/ex_intro/plot_ctd_data.py`