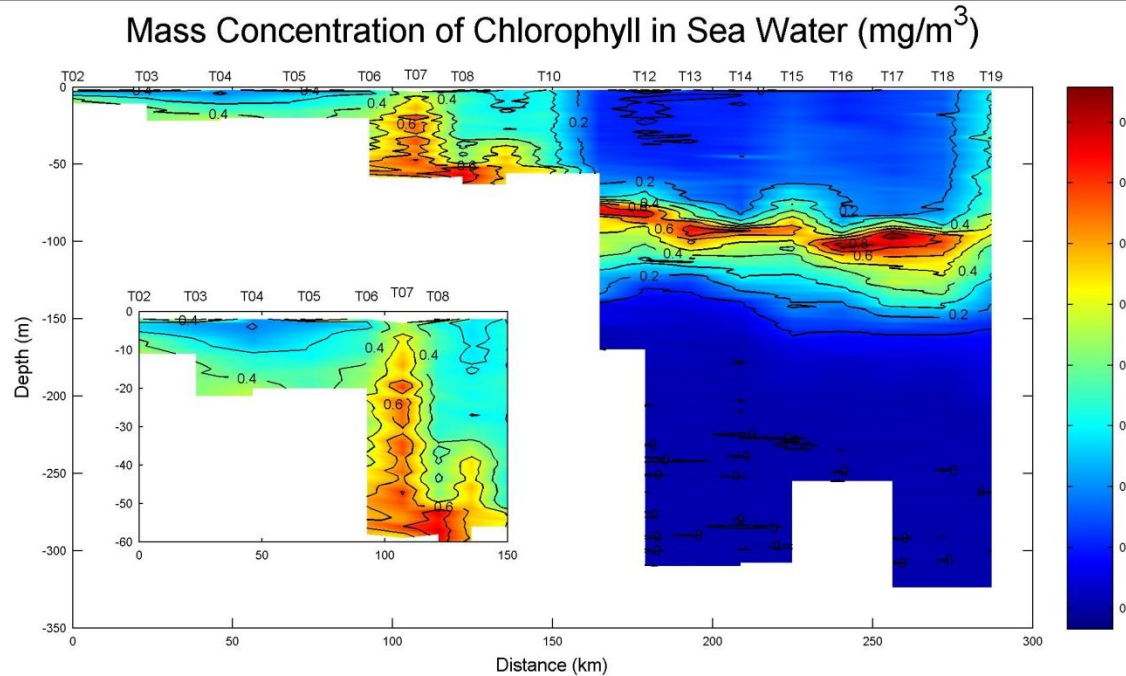
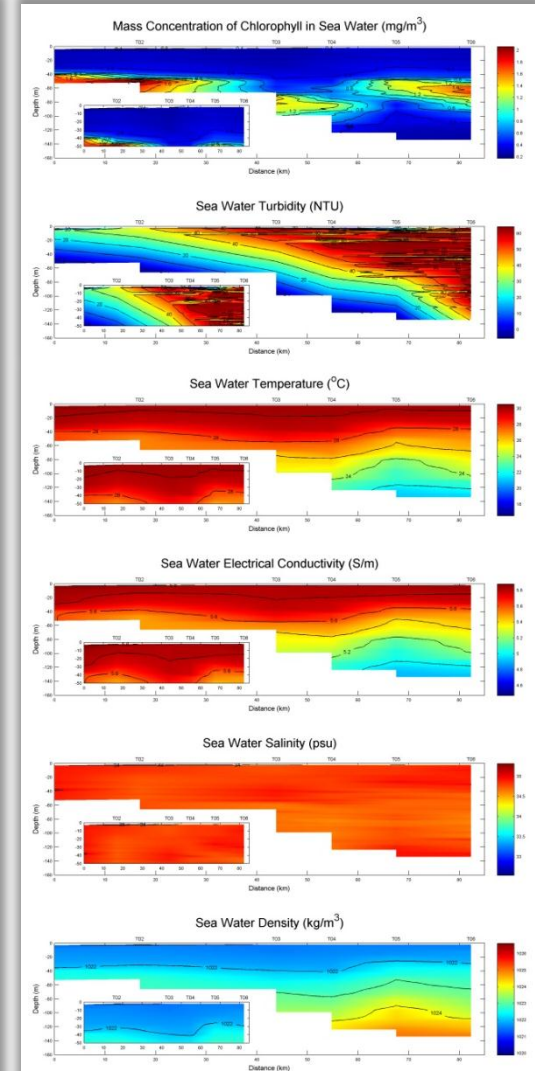
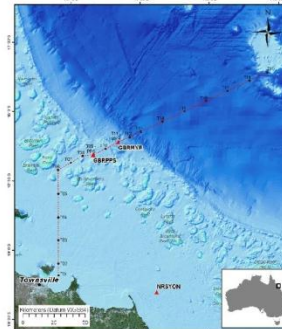


# CTD Transect plot routine



IMOS CTD Transect Magnetic Island to Flinders Reef June 2010  
Deployment code: GBRTransect-North-1006  
Trip: 005104  
Date start transect: 03-Jun-2010  
Date end transect: 12-Jun-2010  
Instrument: SEABIRD CTD - SBE19PLUS V2 SEACAT  
Serial Number: 6180  
Stations sampled: T02 T03 T04 T05 T06 T07 T08 T09 T10  
T10 T11 T12 T13 T14 T15 T16 T17 T18 T19



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**Townsville, 15<sup>th</sup> December 2013**

# CTD Transect plot routine

## Objective:

Provide a quick start guide instruction and information related with the internal mapping of the routine.

## Run the routine:

1. Open Matlab.
2. Set path on the principal folder and subfolders contained in CTD\_Transect\_v01.
3. Run the script *CTD\_transect\_netCDF.m*.
4. Select the netCDF files belonging to one of the trips. Avoid repeating stations (e.g. The script cannot run two files that contain T09 on the file name).
5. A new prompt appears asking to select which region belongs to the files (North, South, PIL,KIM,ITF).
6. Select the region and press OK.
7. A new folder containing the plots will be created in the directory where the netCDF files are stored.
8. Attached there's a folder containing examples to run.

## Pending to solve:

When the CTD transect is not complete, e.g., there are some files missing, the plot is not sensitive to the lack of stations, and the figures appears unorganized. The routine needs to be improved in this issue. Folder called nominal positions contains function that tries to solve it (needs to be finished).

CTD\_transect\_netCDF.m

plot

- Plot\_transect\_CTD.m
- Plot\_vars.m
- Summary\_plot.m
- Summary\_plot\_physic\_vars.m
- Summary\_plot\_water\_quality\_vars.m

settings

- Pcolor\_setting\_CTD\_transect.m
- Plot\_axes\_label.m
- Plot\_axes\_limits.m
- Plot\_info\_CTD\_transect.m
- Plot\_info\_data\_not\_available\_CTD\_transect.m
- Plot\_title.m
- Section2\_plot\_position.m
- Stations\_CTD.m

map

- Plot\_map.m
- CTD\_ITF.png
- CTD\_KIM.png
- CTD\_PIL.png
- CTD\_North.png
- CTD\_South.png

attributes

- Load\_attributes\_CTD.m

variables

- Load\_vars\_CTD.m
- coord2dist.m

padcat

- padcat.m
- License.txt

nominal positions

- Load\_CTD\_NominalPositions.m
- CTDSouthNominal.xlsx

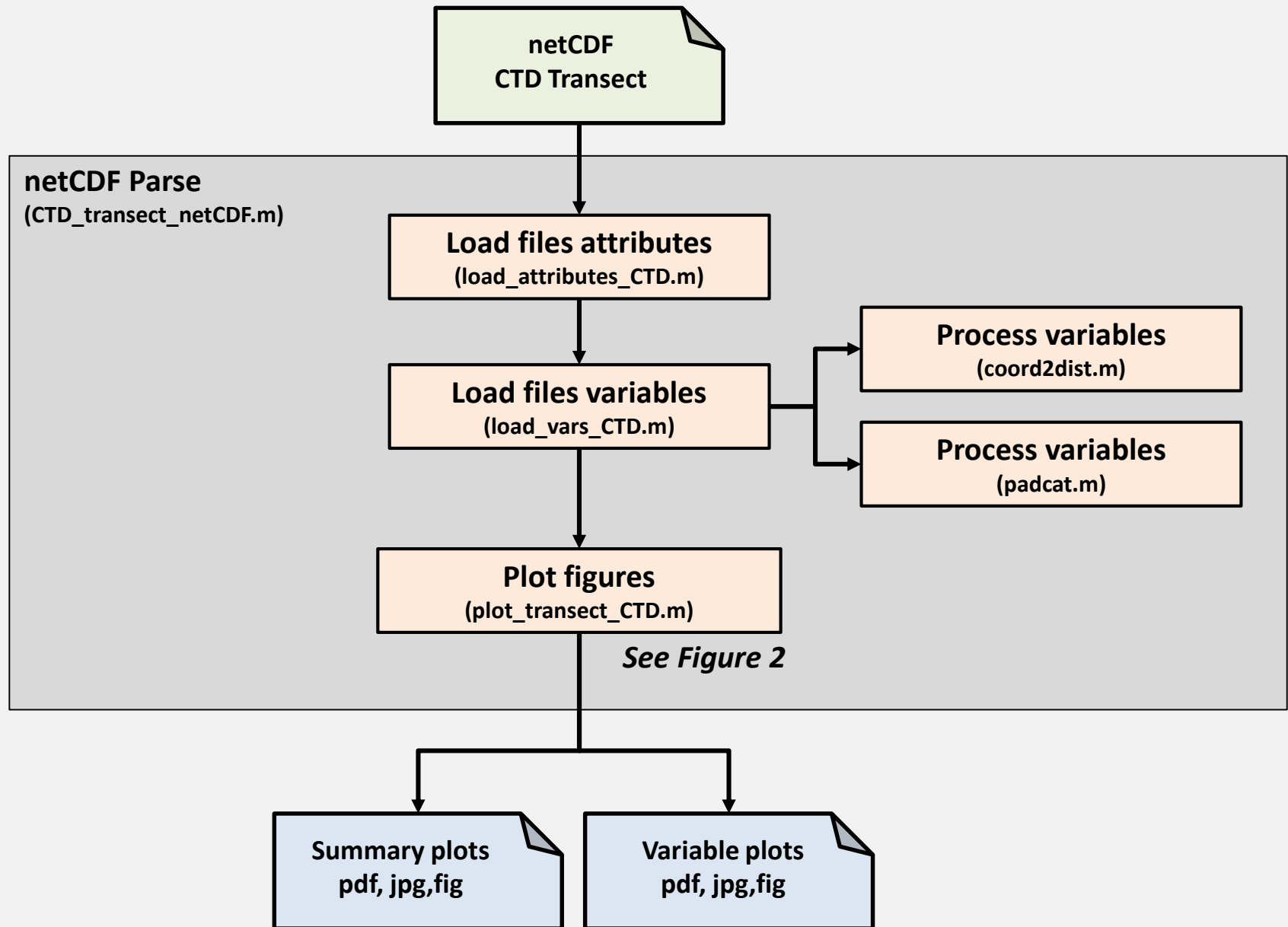


Figure 2

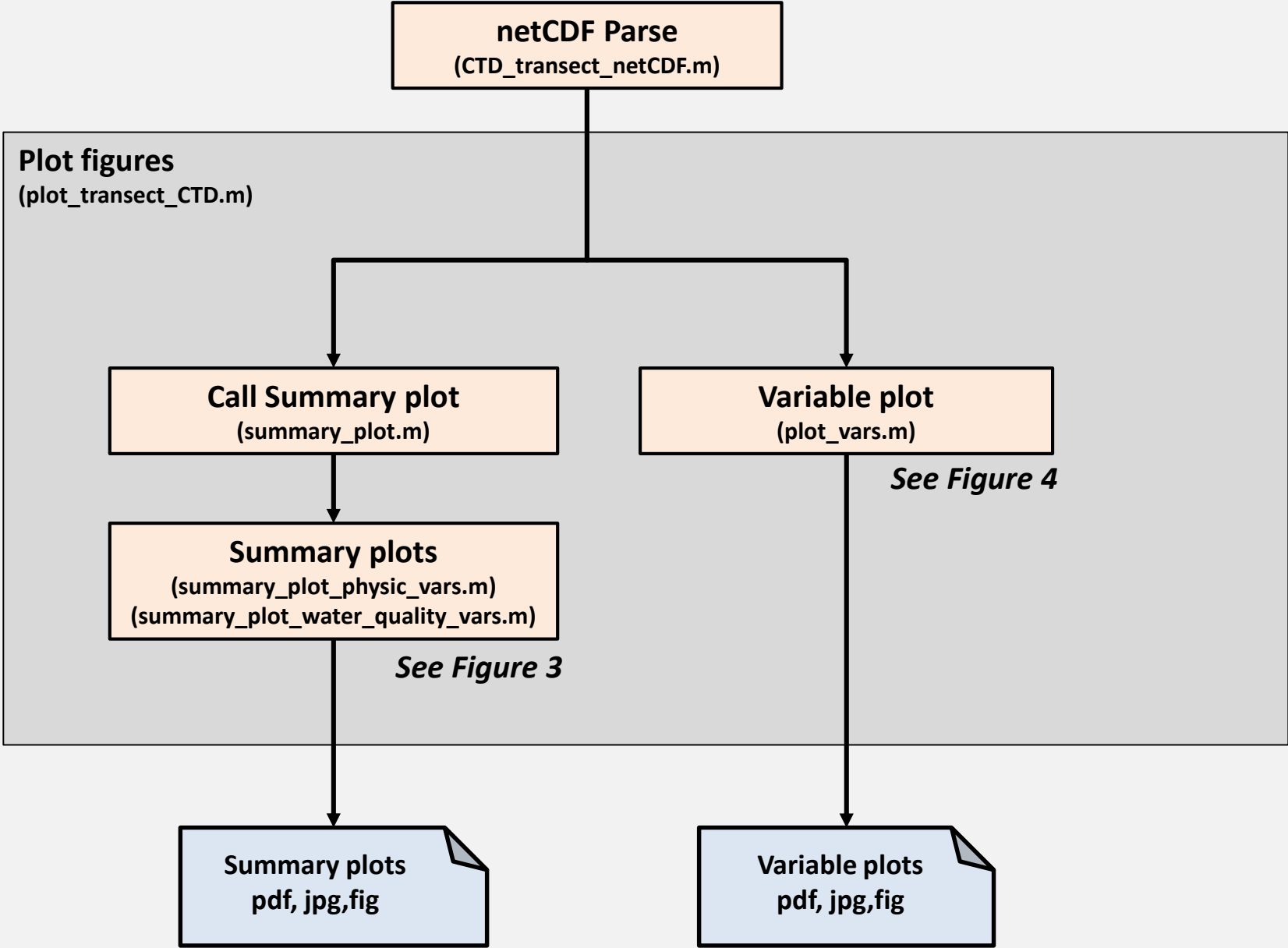
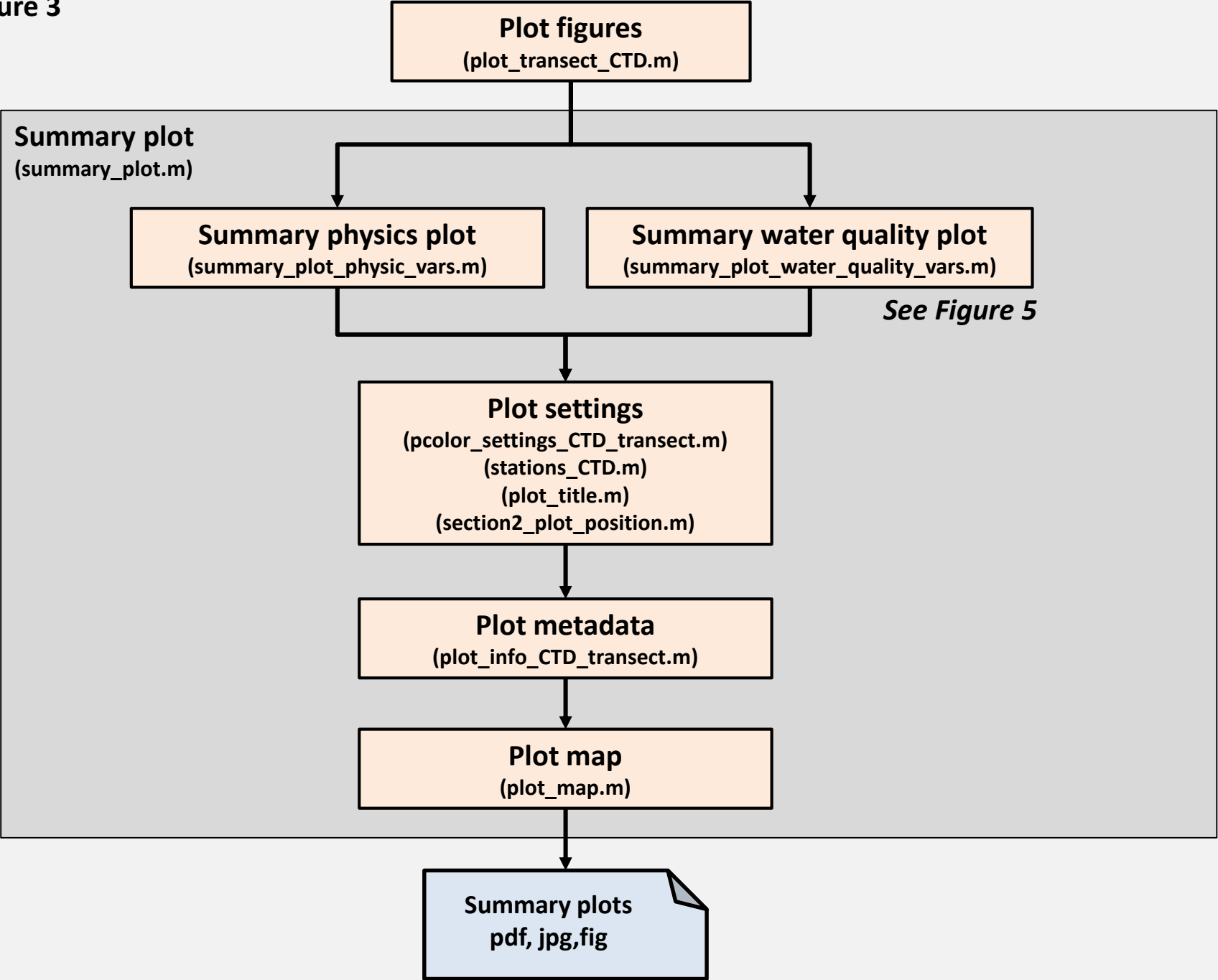


Figure 3



**Figure 4**

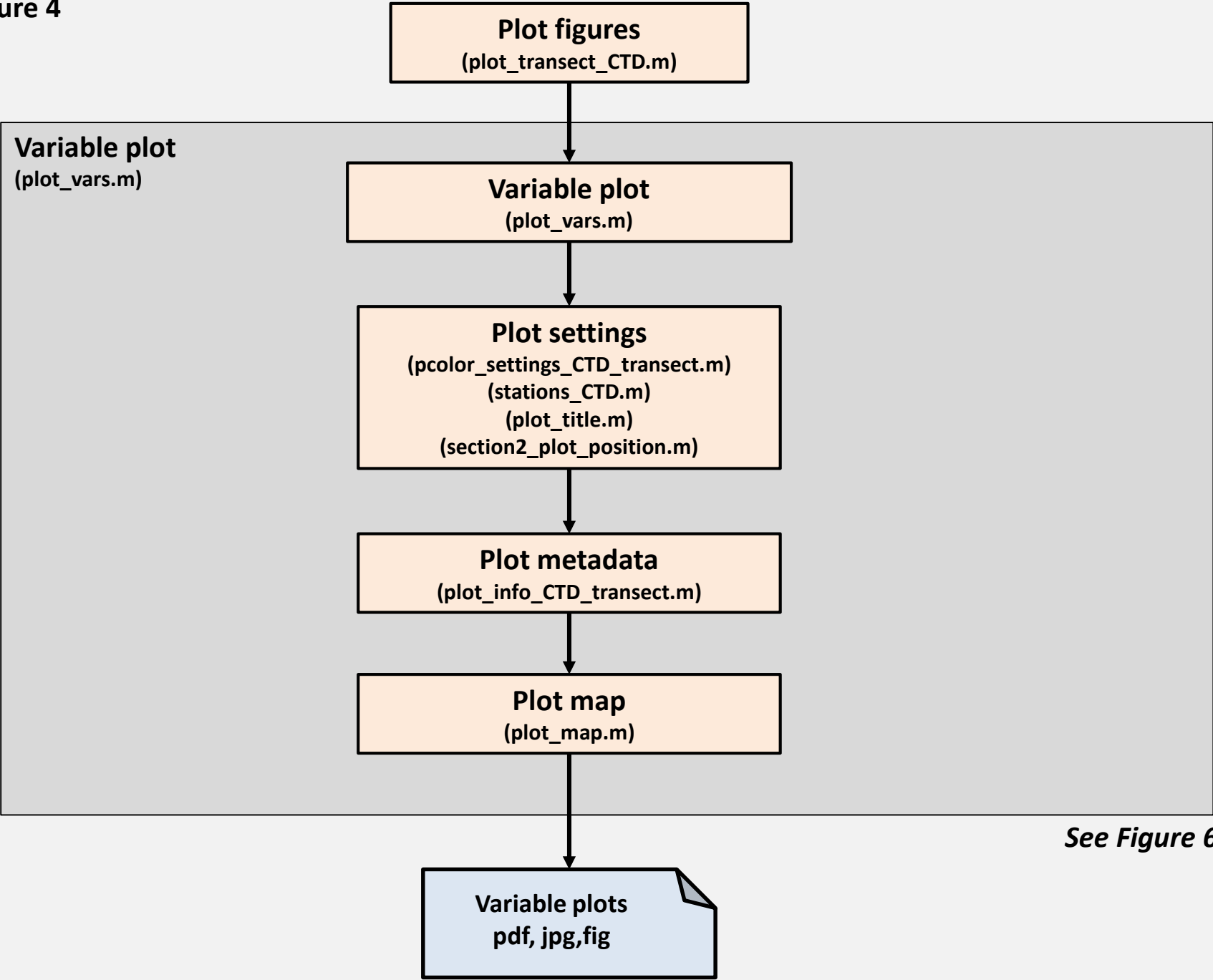


Figure 5

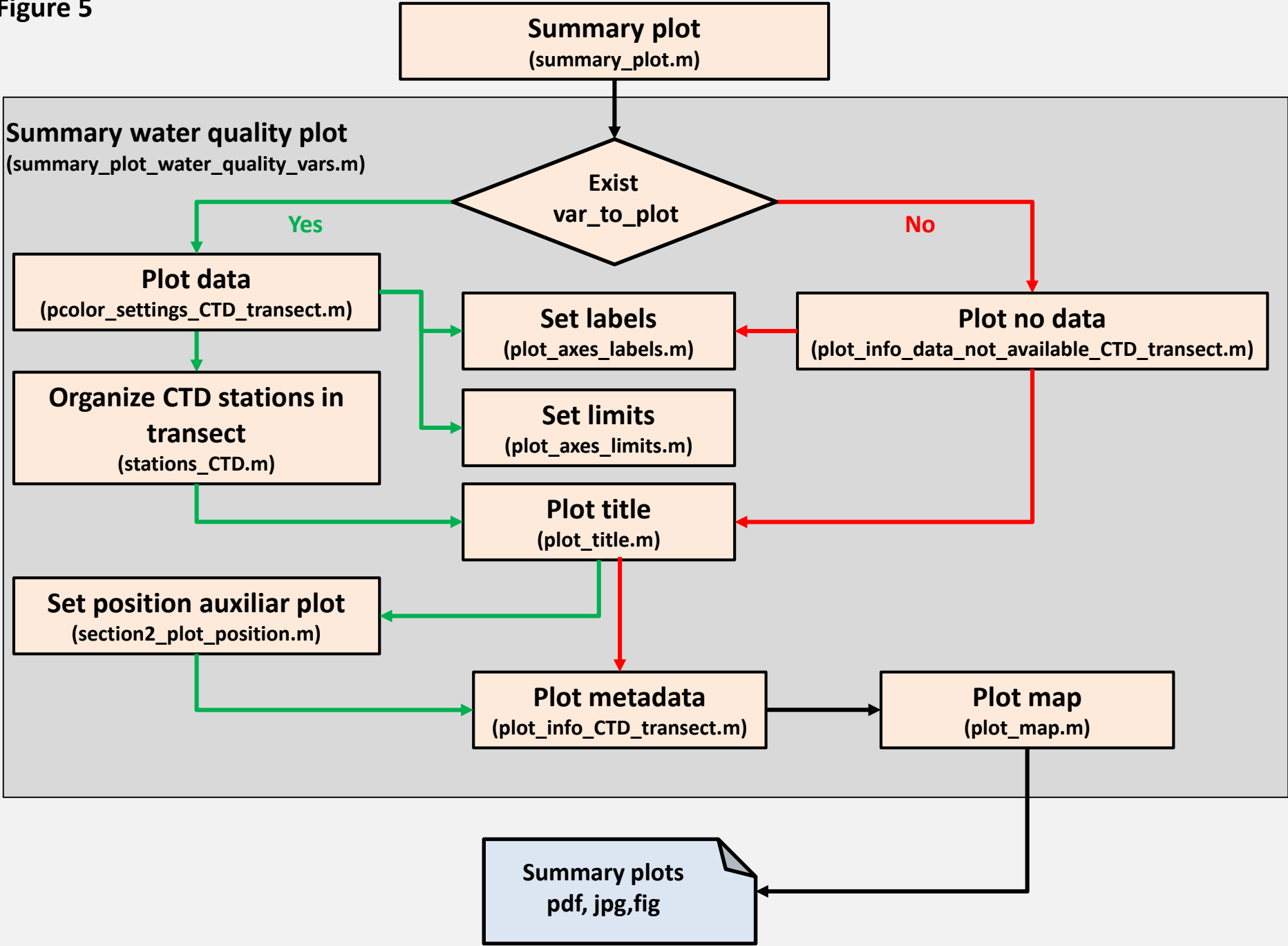




Figure 6

