

Visualising IMOS data using [Ocean Data View](#)

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1. Argo floats

Info: <http://imos.org.au/facilities/argo/>

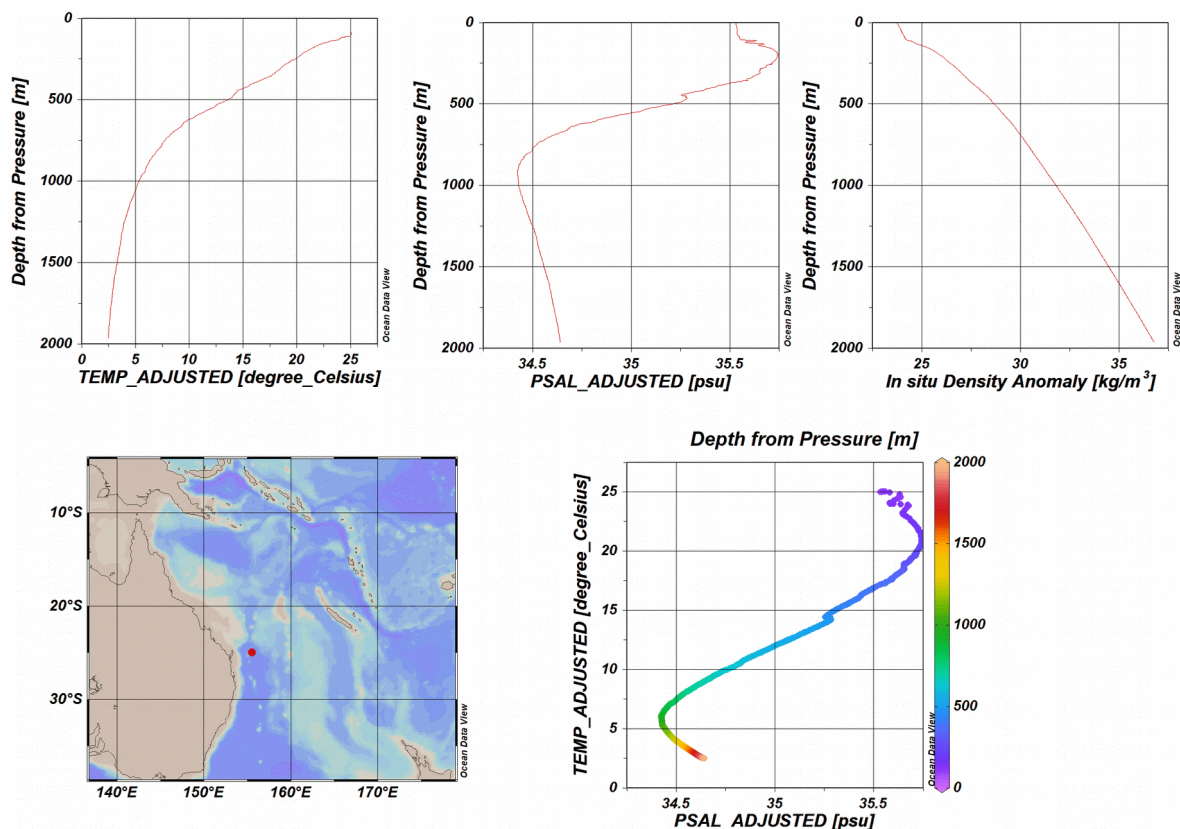
Dataset in thredds (<http://thredds.aodn.org.au/>): IMOS / Argo / dac / csiro

Example: Argo 5905410, profile 30.

http://thredds.aodn.org.au/thredds/fileServer/IMOS/Argo/dac/csiro/5905410/profiles/R5905410_030.nc

Notes in ODV:

- Create a derived variable (drvd) for density:
"View", "Derived Variables", "In Situ Density Anomaly" and follow instructions.



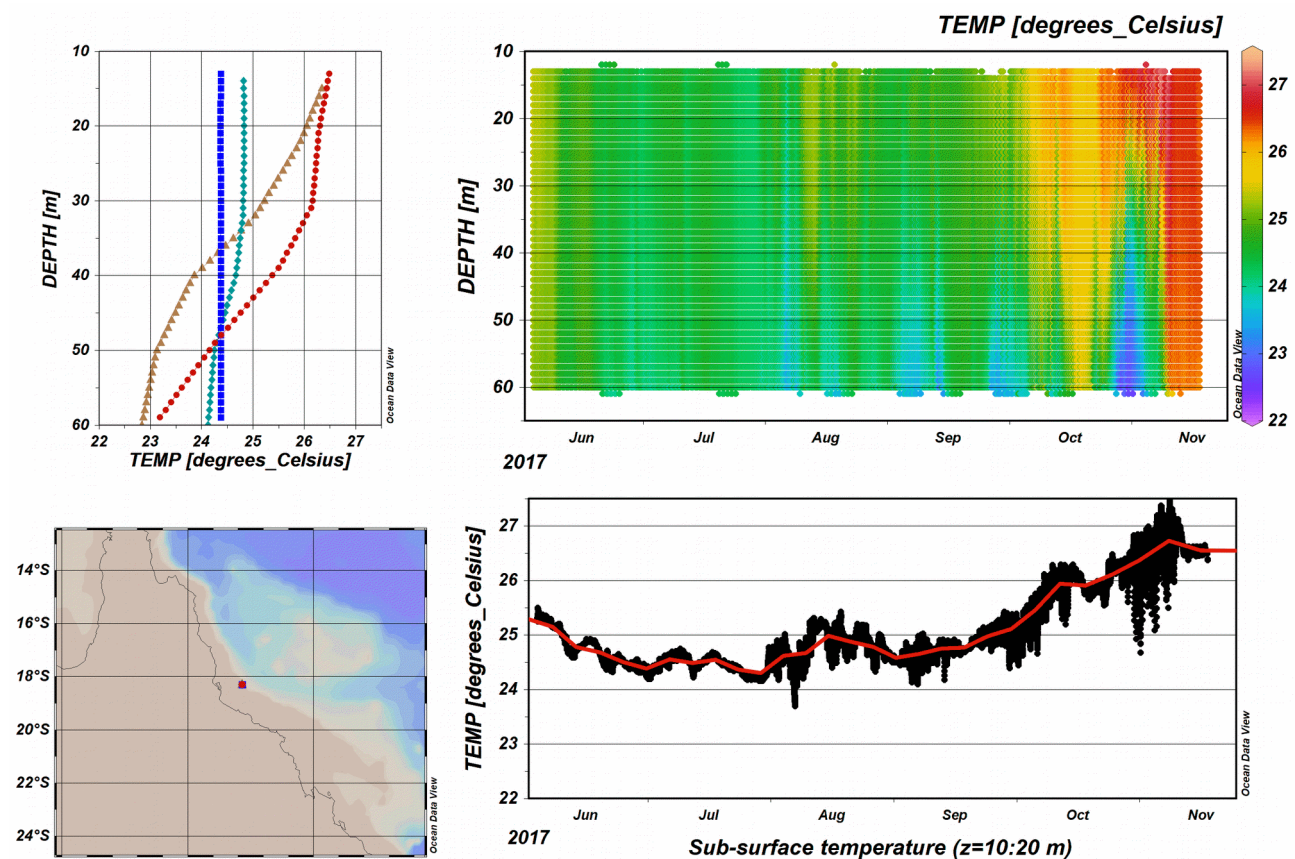
PLOTS (top left to bottom right):

- "Properties", "Data": Scope = station; X-Axis = **TEMP_ADJUSTED**, Y-Axis = drvd Depth (Reverse range)
- "Properties", "Data": Scope = station; X-Axis = **PSAL_ADJUSTED**, Y-Axis = drvd Depth (Reverse range)
- "Properties", "Data": Scope = station; X-Axis = drvd In Situ **Density** Anomaly, Y-Axis = drvd Depth (Reverse range)
- **Map** (zoom out)
- "Properties", "Data": Scope = scatter; X-Axis = **PSAL_ADJUSTED**, Y-Axis = **TEMP_ADJUSTED**, Z-Axis = drvd Depth

2. Mooring gridded temperature

Info: <http://imos.org.au/facilities/nationalmooringnetwork/>
Dataset in thredds (<http://thredds.aodn.org.au/>): IMOS / ANMN

Example: Palm Passage mooring GBRPPS, gridded temperature, Jun - Nov 2017.
http://thredds.aodn.org.au/thredds/fileServer/IMOS/ANMN/QLD/GBRPPS/Temperature/gridded/IMOS_ANMN-QLD_T_20170605T030000Z_GBRPPS_FV02_GBRPPS-1705-gridded_END-20171118T000000Z.nc

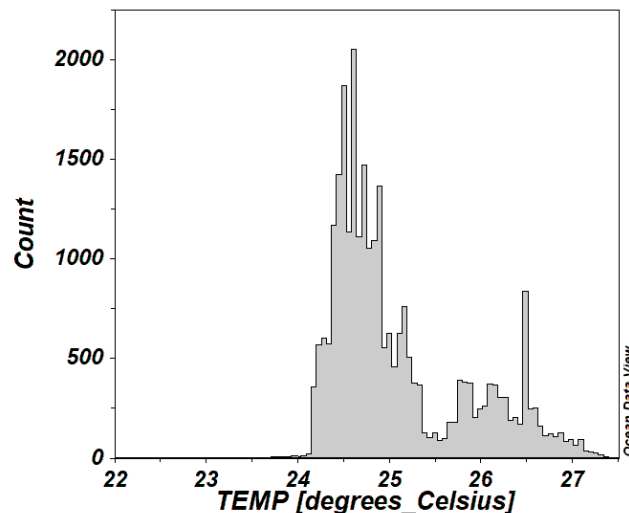


PLOTS (top left to bottom right):

- "Properties", "Data": Scope = scatter; X-Axis = TIME, Y-Axis = DEPTH (Reverse range), Z-Axis = **TEMP**
- "Properties", "Data": Scope = station; X-Axis = **TEMP**, Y-Axis = DEPTH (Reverse range)
- **Map** (zoom out)
- "Properties", "Data": Scope = scatter; X-Axis = TIME, Y-Axis = **TEMP**
+ "Sample filter", "Customize Settings", "Range", Variable = DEPTH, Acceptable Range = 10 - 20
+ "Extra", "Statistics", "Fitted Curves", "Moving average", "Y(X)", Number of gridpoints = 30, Average length-scale = 80, "Construct Curve", "Show Curve"
+ "Add graphic Object", "Annotation", Text = Sub-surface temperature (z=10:20m).

Notes for ODV:

- "Extra", "Statistics", Y Histogram (or Z Histogram...)



3. Mooring adcp (current velocity)

Info: <http://imos.org.au/facilities/nationalmooringnetwork/>

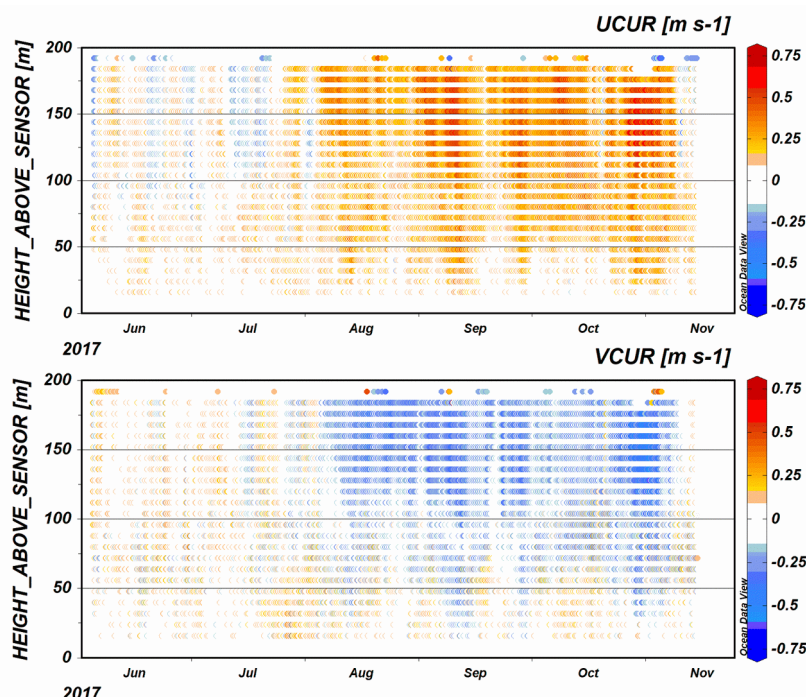
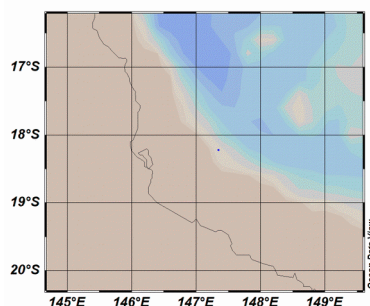
Dataset in thredds (<http://thredds.aodn.org.au/>): IMOS / ANMN

Example: Myrmidon Reef mooring GBRMYR, adcp current data, Jun - Nov 2017.

http://thredds.aodn.org.au/thredds/fileServer/IMOS/ANMN/QLD/GBRMYR/Velosity/IMOS_ANMN-QLD_AETVZ_20170604T075900Z_GBRMYR_FV01_GBRMYR-1705-Long-Ranger-Workhorse-ADCP-210_END-20171116T011900Z_C-20180123T032116Z.nc

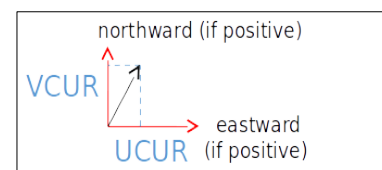
Notes for ADCP data in ODV:

- In "NetCDF Setup Wizard"
 - "Subset Dimensions (Step 4 of 4)", subset TIME, e.g. increment of 6 (time-step of 30 min instead of 5 min) to avoid too large files and slow response in ODV).
- To take into account the QC (1 = good data):
 - "Sample filter", "Customize Settings", "Range", Variable = VCUR_quality_control, Acceptable Range = 1 - 1. Then tick "apply these sample selection criteria globally in this view".
- The depth variable is "Height above sensor", knowing the nominal depth of the instrument ("Collection", "Browse Info File"). For GBRMYR the instrument nominal depth is 210 m.



PLOTS (top left to bottom right):

- Map (zoom out)
- "Properties", "Data": Scope = scatter; X-Axis = TIME, Y-Axis = Height_above_sensor, Z-Axis = **UCUR** + "Set ranges", "Z Axis" Minimum=-1 Maximum=1 + "Properties", "General", "Palette"=BlueRed
- "Properties", "Data": Scope = scatter; X-Axis = TIME, Y-Axis = Height_above_sensor, Z-Axis = **VCUR**



3. Ocean gliders

Info: <http://imos.org.au/facilities/oceangliders/>

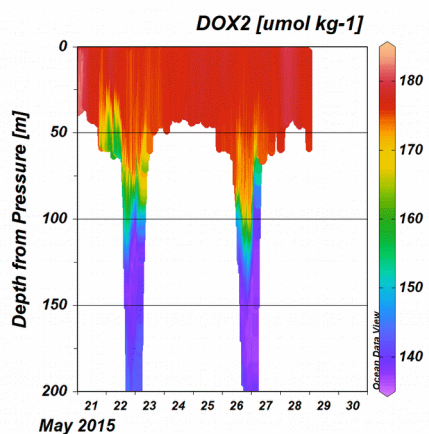
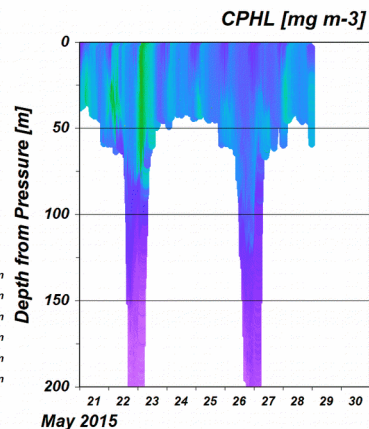
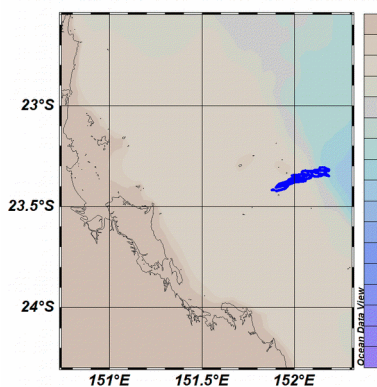
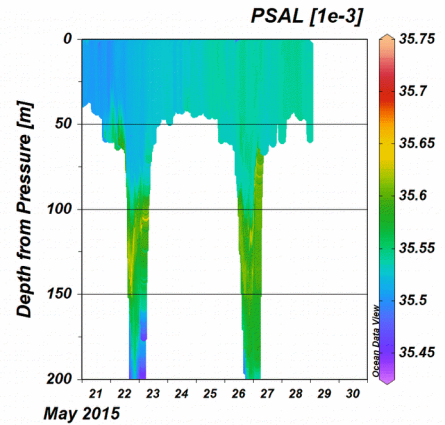
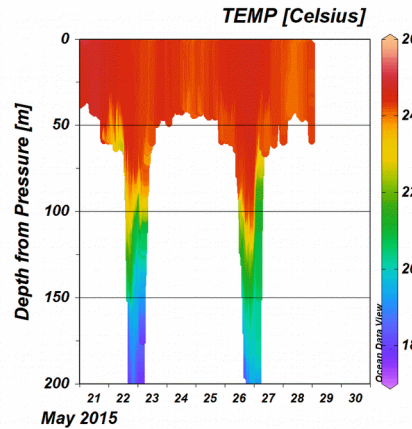
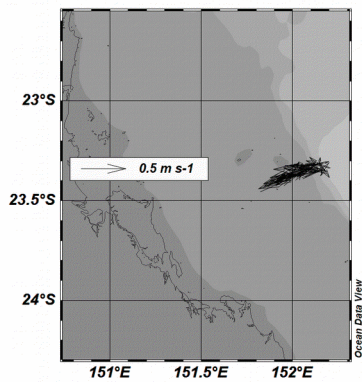
Dataset in thredds (<http://thredds.aodn.org.au/>): IMOS / ANFOG / slocum glider /

Example: Heron20150521

http://thredds.aodn.org.au/thredds/fileServer/IMOS/ANFOG/slocum_glider/Heron20150521/IMOS_ANFOG_BCEOPSTUVN_20150521T004128Z_SL416_FV01_timeseries_END-20150530T131213Z.nc

Notes for gliders in ODV:

- In "NetCDF Setup Wizard"
 - "Select Primary Variable (Step 3 of 4)", tick "Use dummy variable" (because gliders do not have fixed dimensions).
 - "Subset Dimensions (Step 4 of 4)", subset TIME, e.g. increment of 10 (to avoid too large files and slow response in ODV).
- Create a derived variable (drvd) for the plots (each plot needs at least 1 derived variable)
 - "View", "Derived Variables", "Depth from Pressure" (or "Latitude" or), "Add" and follow instructions.



PLOTS (top left to bottom right):

- "Properties", "Data": Scope = scatter; X-Axis = LONGITUDE, Y-Axis = drvd Latitude, Z-Axis = (none)
Display Style -> Arrows (X = **UCUR**, Y=**VCUR**, Scale = 0.5)
- "Properties", "Data": Scope = scatter; X-Axis = TIME, Y-Axis = drvd Depth (Reverse range), Z-Axis = **TEMP**
- "Properties", "Data": Scope = scatter; X-Axis = TIME, Y-Axis = drvd Depth (Reverse range), Z-Axis = **PSAL**
+ "Set Ranges" -> Z-Axis Minimum = 0, Maximum = 2
- **Map** (zoom out)
+ "Layers" -> "Draw color bar".
- "Properties", "Data": Scope = scatter; X-Axis = TIME, Y-Axis = drvd Depth (Reverse range), Z-Axis = **CPHL**
- "Properties", "Data": Scope = scatter; X-Axis = TIME, Y-Axis = drvd Depth (Reverse range), Z-Axis = **DOX2**