

INCOIS-RIMES Training Course on
"Customization of Ocean State Forecast Products" (May 20-24, 2024)

FERRET hands-on session 24-05-2024

Load data into ferret

```
use global_vavh_l4_nrt_20240521T120000Z_P20240522T070005Z.nc
```

Display details of loaded dataset(s)

```
show data
```

Show details of grid

```
show grid VAVH_INST
```

Show details of axis

```
show axis/i=1:10 LAT
```

```
show axis/j=1:10 LON
```

```
show axis/l=1 TIME
```

Define a new variable

```
let/title="Significant wave height Observation" SWHO=VAVH_INST
```

Show defined variable

```
show variable SWHO
```

Plot 2d variable

```
shade SWHO
```

Define another variable

```
use indian_20240521.nc
```

```
let/title="Significant wave height Model" SWHM=SWH
```

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Show all defined variables

```
show variables/all
```

Define area of interest 3d

```
set region/y=0:30/x=30:120/l=1:10
```

```
shade SWHM[l=1]
```

Define area of interest 2d

```
set region/y=0:30/x=30:120/l=10
```

```
shade SWHM
```

Display 2d values

```
list SWHM
```

Define area of interest 1d

```
set region/x=77.5/y=5.2/l=1:30
```

Plot time series variable

```
plot SWHM
```

Display time series variable

```
list SWHM
```

Remove all area of interests / regions

```
can region/all
```

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Subset data to NetCDF file

```
save/file=3d_subset.nc SWHM[x=30:120,y=-30:30,l=1:30]
```

```
save/file=2d_subset.nc SWHM[x=30:120,y=-30:30,l=1]
```

```
save/file=1d_subset.nc SWHM[x=77.5,y=5.2,l=1]
```

Subset data to text file

```
list/file=SWH_timeseres.txt SWHM[x=77.5,y=5.2,l=1]
```