Daily maps of ESA CCI SST v.2.1

Baseline climatology estimation (STL-method) + MHWs definition

Daily maps of MHWs occurrence: binary maps identify grid points which are experiencing a MHW

Label Function

Daily maps of MHWs characteristics:
- mean intensity
- maximum intensity
- start date
- end date
- peak date
- MHWs categories

Filtering Function

Daily maps of labels:
Unique label represents a macroevent, i.e. an extreme event composed of spatiotemporally connected grid-point MHWs

SEWA-MHWs dataset:
- Daily maps of Labels
- Daily maps of MHWs characteristics
- Daily maps of atmospheric variables

Daily maps of atmospheric variables (ERA5 dataset):
- Sea level pressure
- Incoming solar Radiation
- Air temperature at 2 m
- Wind speed at 10 m
- Latent Heat
- Sensible Heat

Data subsetting over the area of interest