**Data preprocessing**
- Time-series over Mediterranean Sea regions (Fig. 1)
- SST and AtmV mutual information analysis

**Models**
- Long-short term Memory (LSTM)
- Convolutional Neural Network (CNN)
- Random Forest (RForest)

**Analysis**
For each forecast ensemble:
- RMSE and MHWs skill vs MedFS dynamical model for 2017-2021
- Forecast sensitivity analysis to AtmV

**Experiments**
For each model and region:
- Ensemble of 15 experiments varying train and test datasets to forecast SST 7 d ahead