

# ICTP/CLIVAR Summer School on Marine Heatwaves: Global Phenomena with Regional Impacts

## Save Your Date!

24-29 July 2023, Trieste, Italy



Marine Heatwaves (MHWs) are extreme climatic events that impact all ocean basins and can persist from weeks to months and spread over hundreds to thousands of kilometers. MHWs have devastating impacts on marine habitats and ecosystems and influence regional weather systems such as the monsoons and extreme weather events like tropical cyclones. Climate change is clearly responsible for increasing the frequency of the widespread occurrence of MHWs, but open questions remain about the mechanisms of internal variability that drive these extreme events above the slowly evolving background warming.

The Summer School aims to enhance the understanding of the mechanisms, predictability and impacts of MHWs, as well as to provide hands-on experience and tools to train the next generation of scientists and in particular enhance the capacity of early career scientists (ECS) from under-resourced countries for detecting and predicting MHWs.

### Organizing Committee

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### Daily themes

Day 1: Technical aspects: Methodologies used to estimate extremes, etc.  
Day 2: Drivers of marine heatwaves: Atmospheric and oceanic mechanisms.  
Day 3: Impacts of marine heatwaves: Cyclones, ecosystems, societal costs.  
Day 4: Future projections, attribution and forecast: trends vs internal dynamics.  
Day 5: Additional Ideas/Themes: Socio-economic impact/blue economy of MHWs; Science communication.  
Day 6: Synthesis and recap

### For more information:

<https://www.clivar.org/events/ictpclivar-summer-school-marine-heatwaves-global-phenomena-regional-impacts>

