



HyMeX: un programma dedicato al ciclo dell'acqua  
nel bacino del Mediterraneo  
Linee di ricerca e prospettive

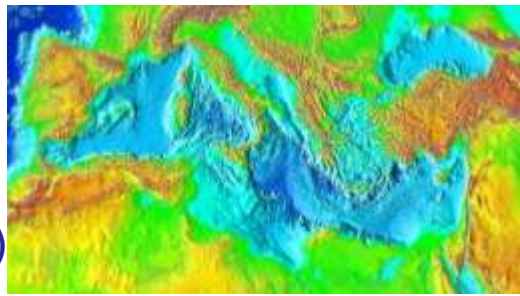
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The Mediterranean basin:

- A region prone to *high-impact events* related to water cycle
- *Water resources*: a critical issue
- One of the two main *hot spot regions* of the climate change
- A unique highly *coupled system* (Ocean-Atmosphere-Continent)

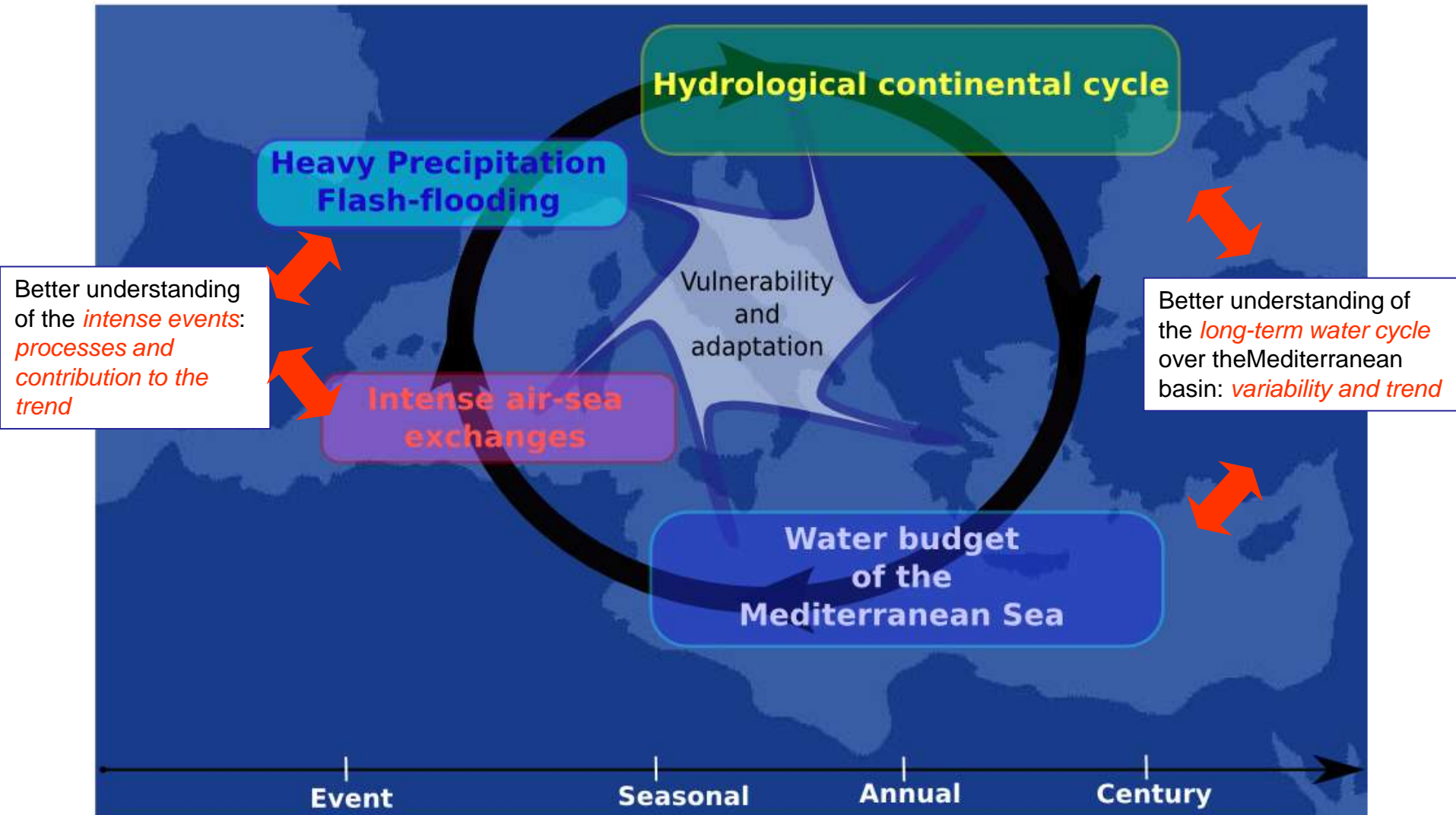


**HYMEX OBJECTIVES**

- To improve our understanding of the *water cycle*, with emphasis on hydrometeorological natural hazards, by monitoring and modelling the Mediterranean atmosphere-land-ocean coupled system, its variability from the event to the seasonal and interannual scales, and its characteristics over one decade (2010-2020) in the context of global change
- To progress in the predictability of high-impact weather events and their evolution with global change
- To assess the social and economic vulnerability to hydrometeorological natural hazards in the Mediterranean and the adaptation capacity of the territories and populations



# SCIENTIFIC TOPICS

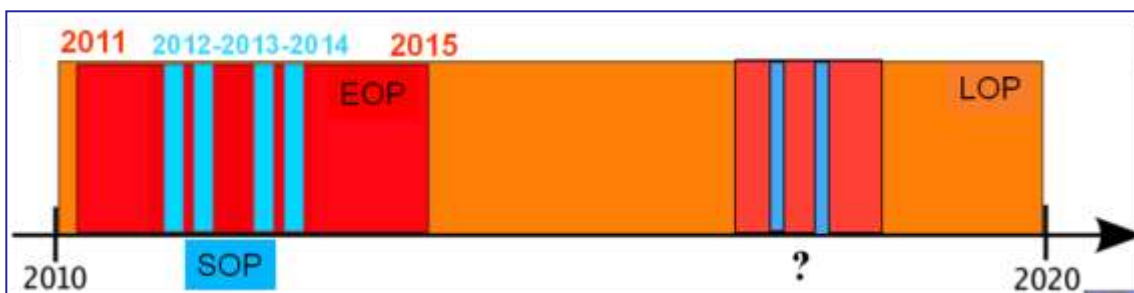
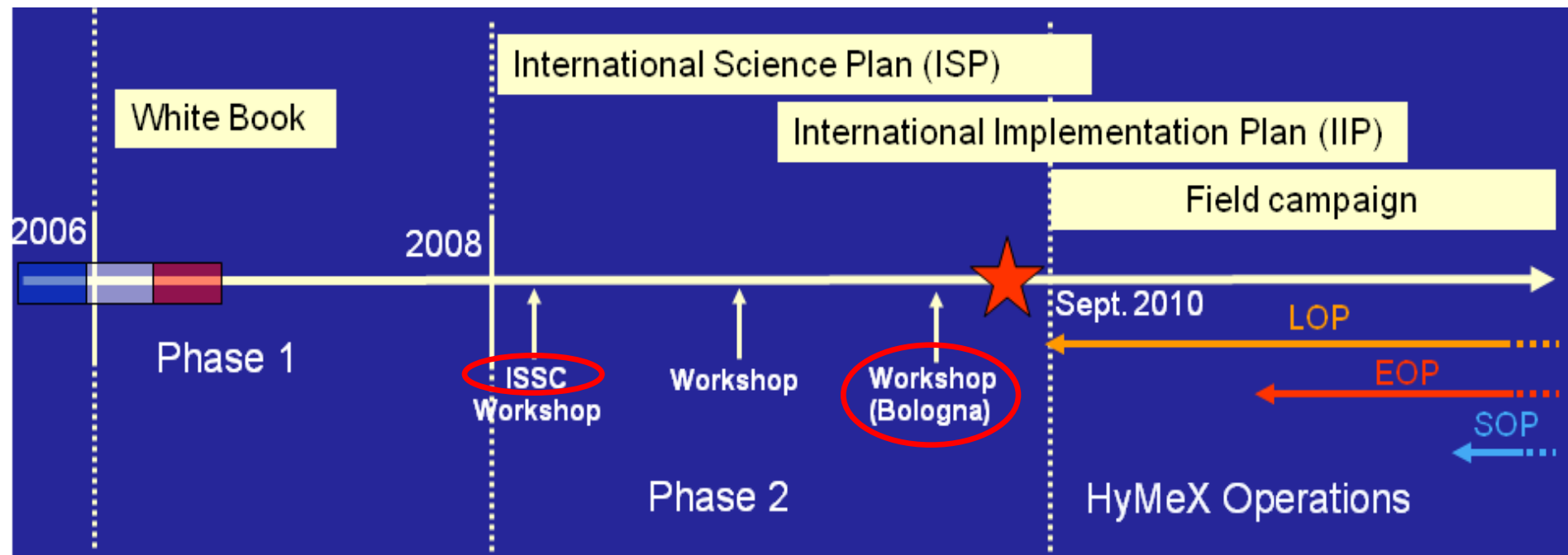


**Multi-disciplinary** (oceanic, atmospheric, hydrological and social sciences)

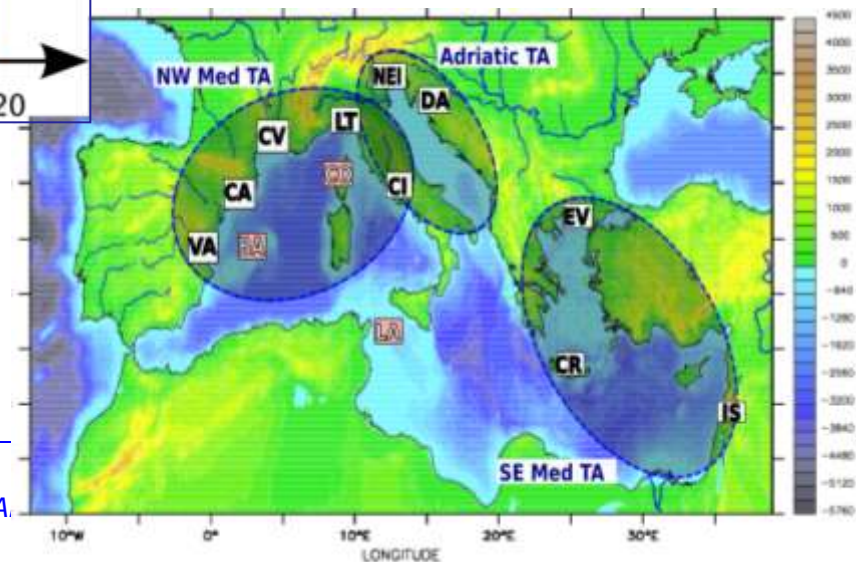
**Seamless** (from climate to event scales)

**Observation and modelling** research activities





**LOP: Long Observation Period (2010-2020)**  
**EOP: Enhanced Observation Period (2011-14)**  
**SOP: Special Observation Periods**

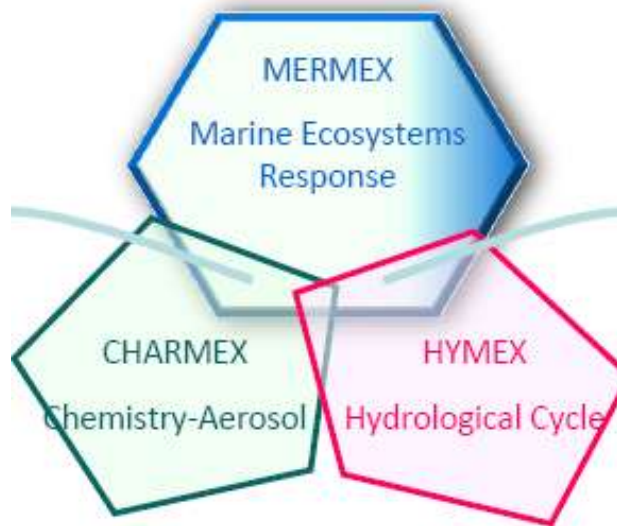




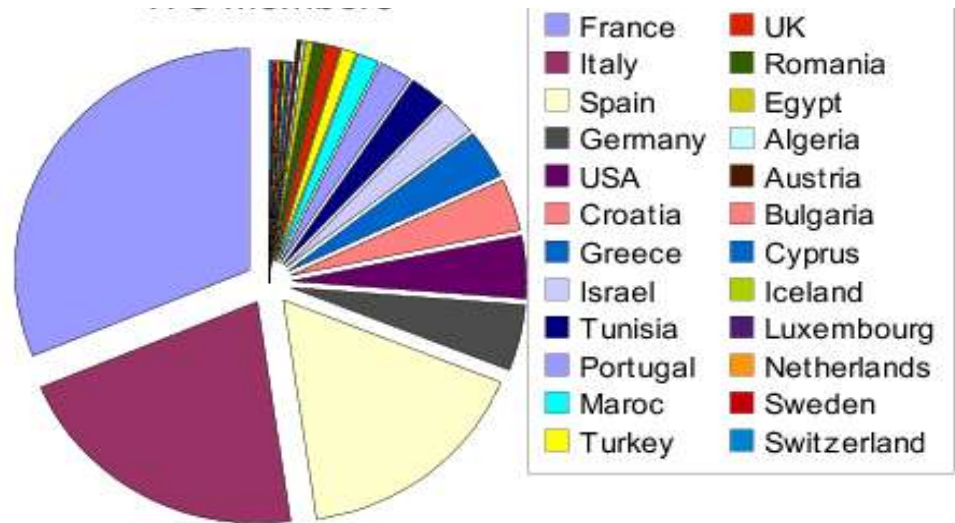
# MISTRALS

Mediterranean Integrated Studies  
at Regional And Local Scales

Chantier Méditerranée > Documents



More than 20 countries with 350 scientists



**THORPEX**  
A World Weather Research Programme

**GEWEX**  
WCRP



**MEDEX**  
MEDiterranean EXperiment Information Center



# HyMeX ITALIA

- Coordinamento a livello nazionale (CNR, ENEA, Università) → WGs
  - supporto formale e riconoscimento delle finalità scientifiche
  - raccogliere adesioni (massa critica?)
  - individuare priorità nazionali
  - individuare interlocutori e possibili fonti di finanziamento
  - coordinarsi per progetti nazionali
  - coordinarsi per la partecipazione a progetti europei

## -Coordinamento tra Istituti CNR:

**ISAC, ISMAR, IRPI, IBIMET, IMAA, IRSA, ISSIA, IFAC**

Contesto per la formalizzazione di collaborazioni già esistenti e da instaurare  
Sinergie che forniscono un valore aggiunto al programma

- es: modellistica accoppiata
- es :partecipazione coordinata-multidisciplinare alle campagne di misura

[www.hymex.org](http://www.hymex.org)

[www.isac.cnr.it/hymex](http://www.isac.cnr.it/hymex)

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