Pre-operational WMOP data-assimilative predictions in the Western Mediterranean Sea: preliminary evaluation

Baptiste Mourre[1], Jaime Hernandez-Lasheras[1], Eva Aguiar[1], Eugenio Cutolo[1,2], Mélanie Juza[1], Ananda Pascual[2] and Joaquín Tintoré[1,2]

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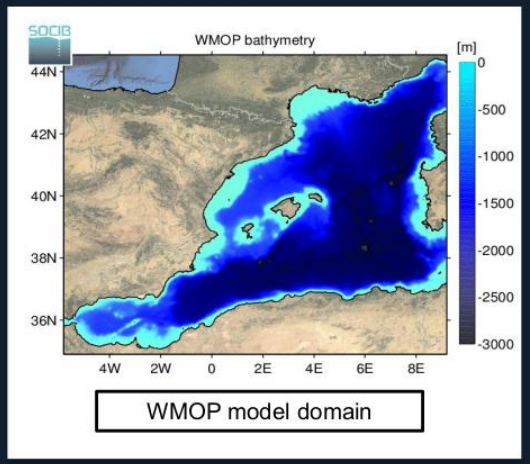
[1]SOCIB, Balearic Islands Coastal Observing and Forecasting System, Palma de Mallorca, Spain
[2]IMEDEA, CSIC-UIB, Esporles, Spain

Pre-operational since May 2018, motivated by two sea trial experiments carried out in May-June 2018; multi-platform data assimilation.

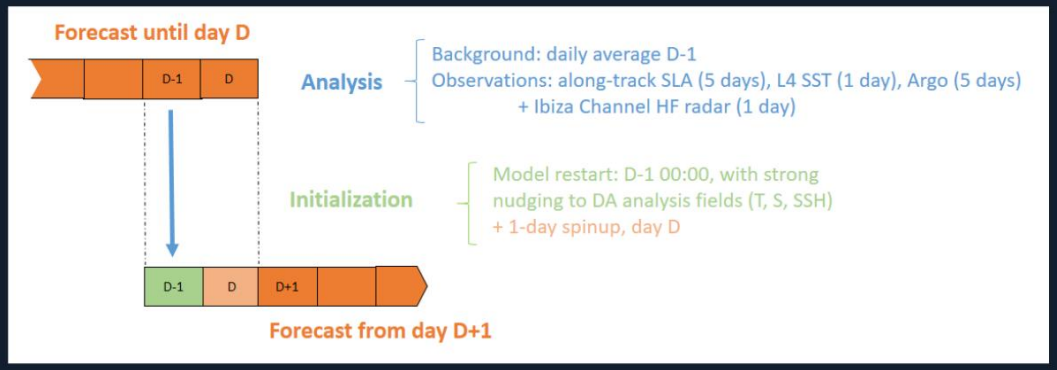
1 WMOP prediction system

1 Model configuration



2 Data assimilation

→ **Local multimodel Ensemble Optimal Interpolation**



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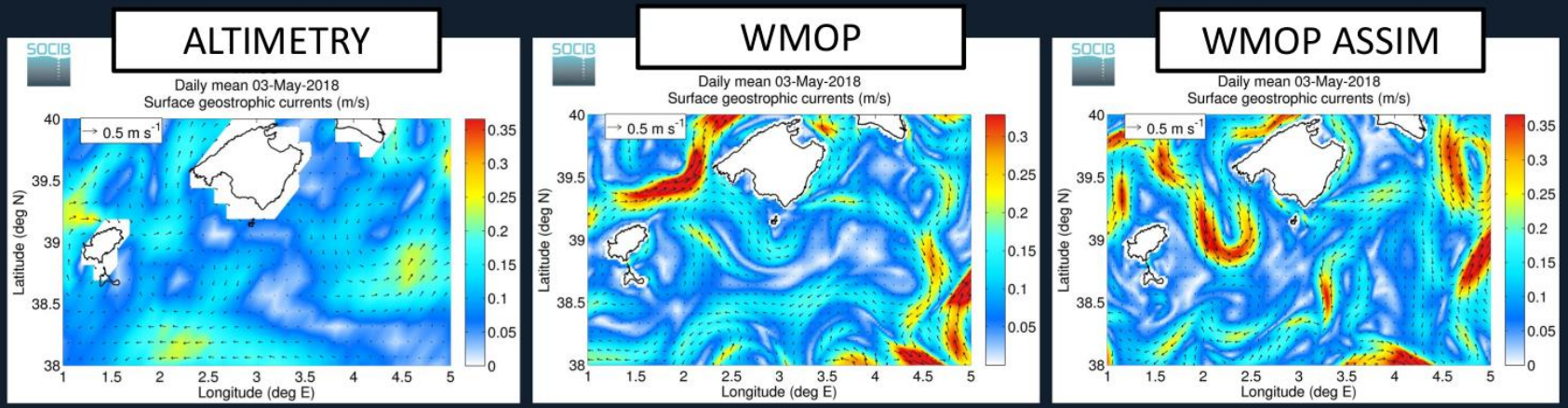
2 PRE-SWOT experiment

5-17 May, South Mallorca

PIs: Ananda Pascual (IMEDEA) & John Allen (SOCIB)



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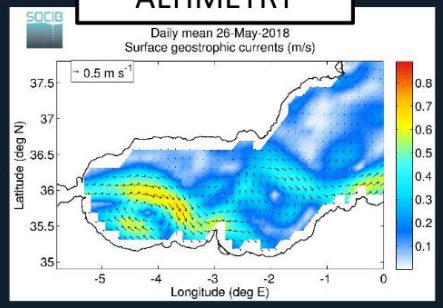
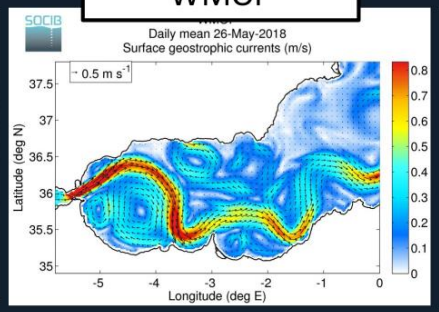
3 CALYPSO cruise planning

26 May-6 June 2018, Alboran Sea - ONR Departmental Research Initiative

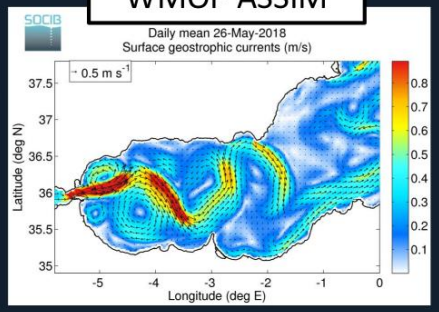
ALTIMETRY



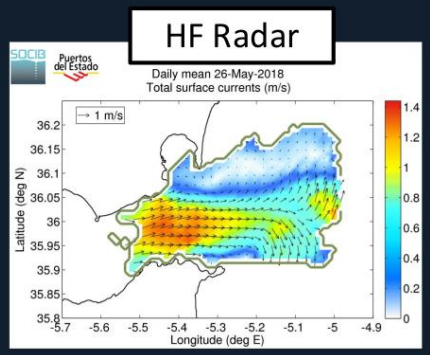
WMOP



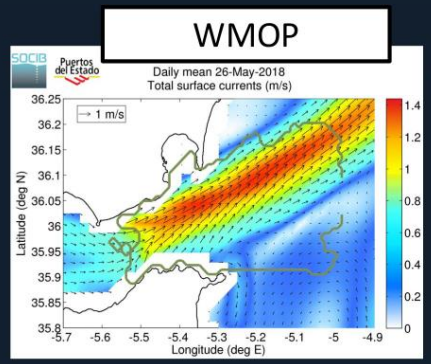
WMOP ASSIM



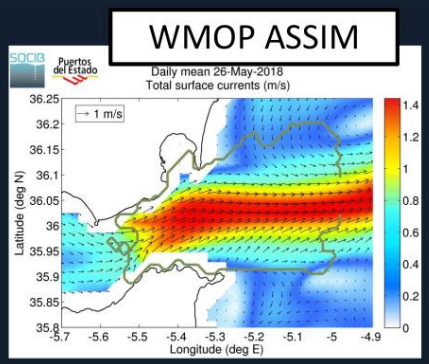
HF Radar

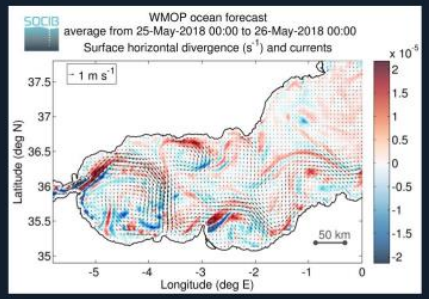


WMOP



WMOP ASSIM





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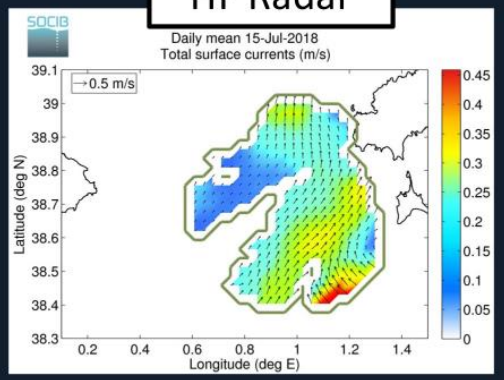
4 Swimming across the Ibiza Channel

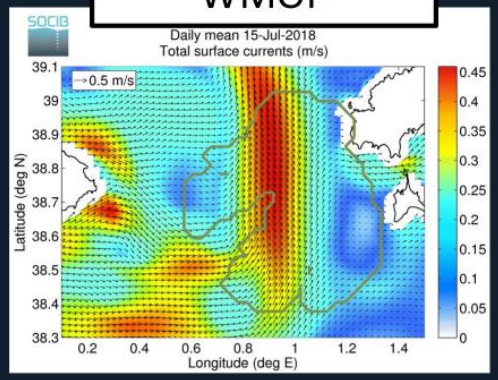
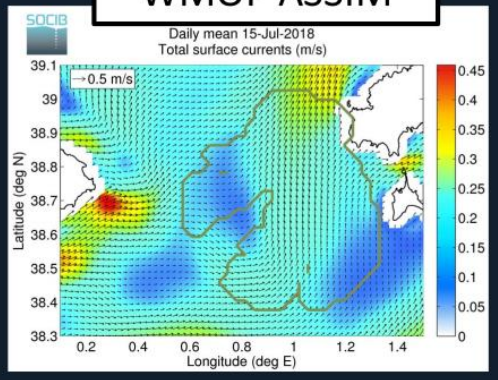
Tita Llorens, 26 July, Ibiza Channel

→ Support to optimize the swimming route and date (favorable direction: West to East)

HF Radar



WMOP



WMOP ASSIM