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Supplement of

Intense wind-driven coastal upwelling in the Balearic Islands in response to Storm Blas (November 2021)

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1) Sentinel-3 OLCI Chl a Quality Index (QI)

$$QI = (\text{observation} - \text{climatological average}) / \text{climatological standard deviation}$$

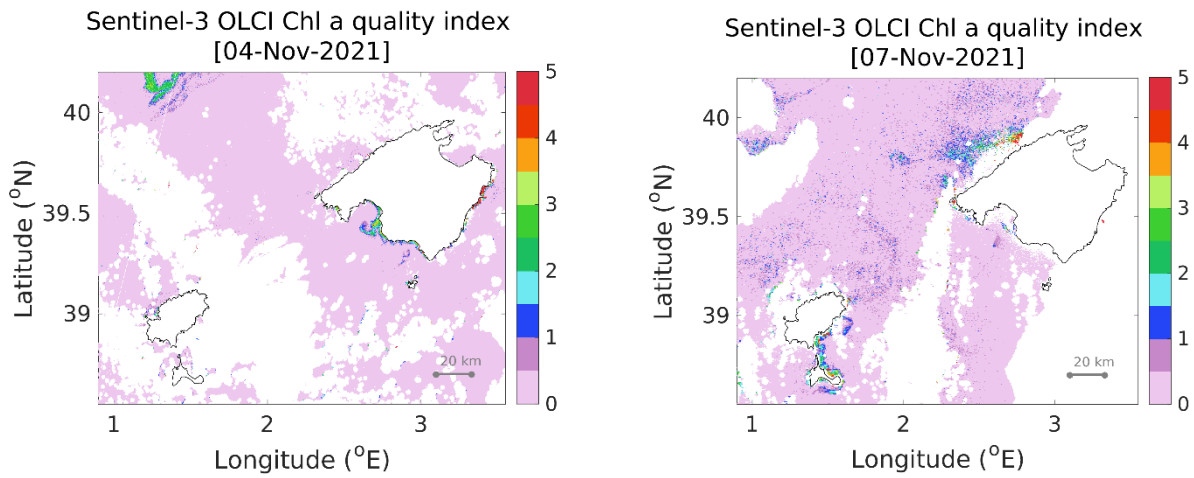


Figure S1: Quality Index (QI) of Sentinel-3 OLCI Chl *a* images on (left) 4 and (right) 7 November 2021

2) Lagrangian analysis of surface transports from Alcúdia Bay

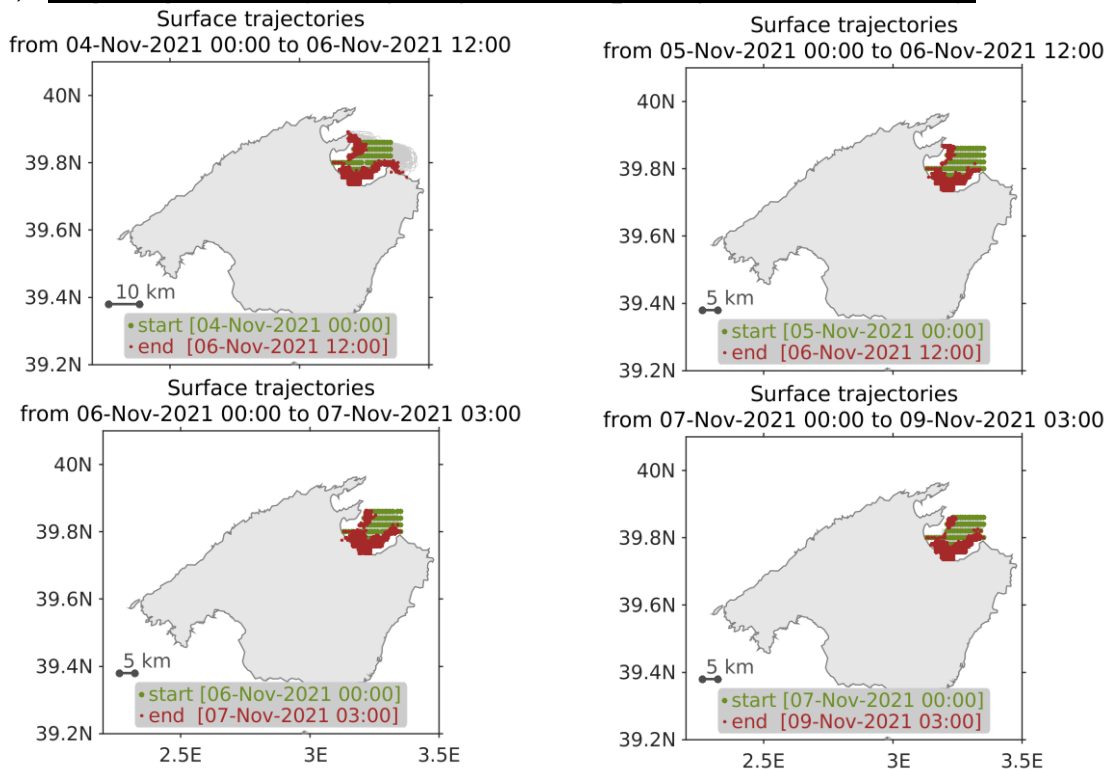


Figure S2: Surface trajectories of model particles seeded in Alcúdia Bay on 4 (top-left), 5 (top-right), 6 (bottom-left) and 7 (bottom-right) November at 00:00UTC. The initial and final positions are represented by green and red dots, respectively.