SEARCHING A PHD CANDIDATE TO APPLY FOR A GRANT IN THE FRAME OF THE OPEN CALL FROM THE PORTUGUESE SCIENCE FOUNDATION (FCT).

Dear all,

We are currently looking for a good candidate to apply for a PhD grant in the frame of the open call from the Portuguese Science Foundation (FCT). The proposal is ready (but can be modified) and is about the morphodynamics of an ebb-tidal delta at short (yearly, seasonal) timescales (see abstract below). The PhD grant is for 4 years, with a monthly value of 980 € (exempt of taxes) and is to be conducted at CIMA (Algarve University) under the supervision of Oscar Ferreira and Erwan Garel and integrated on the Coastal and Ocean Dynamics research group (https://www.cima.ualg.pt/cimaualg/index.php/en/research/research-areas/ocean-and-coastal-dynamics).

Please let us know if you have any student with the adequate background that could be interested or re-send this message to that student and ask her/him to apply. A student with good marks and at least one international publication (although not necessary) has better chances to be funded.

The deadline for showing interest is 28 February. The deadline for the full application at FCT is 28 March.

Best regards,

Oscar and Erwan

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PhD abstract

The morphodynamic response of large scale ebb-tidal deltas to forcing conditions (waves, tides, river discharge) is generally studied at decadal time scales due to poor bathymetric data availability. This PhD topic proposes such analysis at a yearly/seasonal time scale at a case study (the Guadiana ebb delta) based on an extensive dataset combined with various numerical and analytical tools. The first main goal is to understand the (large-scale) response of the entire system (including adjacent beaches evolution and bypassing mechanisms) to annually-changing forcing conditions. The second main goal is to characterise the (small-scale) development of the outer shoal, a highly dynamic feature where dredging is often required to maintain the navigation channel. The results will be applied to define optimised management practices at ebb-tidal deltas (including the adjacent coast), in particular regarding channel dredging and beach protection.