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## Seminar

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**11:30 30 Jan 2020 - Aula IB09**

## Title

A Virtual Geostationary Ocean Colour Sensor to observe short term variations in particulate matter in the coastal environment

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## Abstract

In coastal waters the variability of the optical properties can be adequately captured only using Geostationary Ocean Colour (OC) satellites. In this work, to compensate the lack of an OC geostationary sensor over the North Adriatic Sea (NAS), a Virtual Geostationary Ocean Colour Sensor (VGOCS) has been created, using the data from the constellation of OC polar satellites. This work aims to analyse the suitability of VGOCS in capturing the short time variability of the particulate backscattering in the NAS to provide information on processes occurring in coastal waters, by the analysis of two case studies. The particulate backscattering has been calculated using the Remote Sensing Reflectances from the different OC satellites, adjusted by the use of a multi-linear regression algorithm, based on the in situ data acquired at the Acqua Alta oceanographic tower.

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