

Satellite oceanography (224.4991)

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2 points credit.

Grade breakdown: final assignment (80%), assignments during the semester (20%).

Satellite data provide synoptic long-term observations of the marine environment over spatial and temporal scales ranging from meters to thousands of kilometers and from days to decades. Over the last 40 years these data have had a dramatic contribution to our understanding of ocean system, being a standard tool in many fields in ocean science. This course is meant to provide student with the basic knowledge on satellite remote sensing and its application in ocean research. Topics that will be covered include principles of remote sensing; basic approaches in satellite oceanography, including ocean color, altimetry, scatterometry; and principles of satellite data retrieval, processing and analysis.
