

CURRICULUM VITAE

Bertrand CHAPRON



B. Chapron (Ifremer/LOPS, Odyssey group) Senior scientist, first class research director, at Ifremer, has multi-year experience on the combined use of space-borne ocean remote sensing active and passive measurements. Bertrand Chapron led the Ifremer Laboratoire of Océanographie Spatiale (2004-2016), co-led (2011-2015 with P. Klein) ‘The ocean engine at very high resolution’ of the excellence initiative LABEX-Mer, and helped create (with V. Kudryavtsev) the Satellite Ocean Laboratory (SOLab) at the St Petersburg Russian State HydroMeteorological University. Chapron holds the ERC Synergy grant (Stochastic Transport in Upper Ocean Dynamics, STUOD 2020-2026, with E. Mémin (Inria, France), D. Crisan and D. Holm (Imperial College, Great-Britain)).

Chapron served as co- and/or principal investigator in several ESA projects (SMOS salinity mission, OceanGasFlux, SMOS-Storm, GlobCurrent, DTEp, MAXSS). He is a member of the NASA and CNES science and definition team for the future SWOT high-resolution ocean topography mission (launch 2022), and CFOSAT ocean wave and wind measurements (launch Oct. 2018). Over the last years, Chapron and collaborators further works on the definition of future space-borne instruments, more directly dedicated to estimate ocean surface currents and/or upper ocean deformation field (surface current gradients): the ESA Earth Explorer 9 Doppler off-nadir altimeter SKIM (Ardhuin et al., 2018), the ESA Earth Explorer 10 bi-static SAR measurements HRMNY (Dekker-Lopez et al., 2018). Other concepts include multi-azimuth optical sensor GLISTERO-SARONG and multi-azimuth multi-polarized radar sensor (SEASTAR, Gommenginger and Chapron, 2018), and NASA Ka-band Doppler- scatterometer (Rodriguez et al., 2018).

Among the supervised PhD and Post-Doc students, 16 obtained tenured academic research positions (national and international), and 3 are leading spin-off R&D SMEs. Chapron published more than 200 papers in refereed journals (>21000 citations, h-index 73, source Google Scholar, h-index 55 source WoS, listed by Standford University in the world top 2% of scientists, and Reuters top 1000 Climate scientists).

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