



Charles Peureux

**Laboratoire
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Physique et Spatiale**
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Born on 06.21.92 in Nevers,
France

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Education

2017 [PhD in physical oceanography](#)

Université de Bretagne Occidentale, Brest

Topic : Observation and modelling of short ocean surface gravity waves directional properties

Supervisor : Fabrice Ardhuin, Laboratoire d'Océanographie Physique et Spatiale

2014 [Master's degree in physical oceanography](#)

Université de Bretagne Occidentale, Brest. *With honors*

2014 [Master's degree in physics](#)

École Normale Supérieure de Lyon *With honors*

Professional experience

2017- [Research engineer](#) *2 years*

2019 Laboratoire d'Océanographie Physique et Spatiale, Brest

R&D in the framework of ESA satellite proposal [SKIM](#).

High resolution numerical modeling, algorithm developments, workshop organization ([Doppler Oceanography from Space](#), 97 participants).

Master's internship co-supervisor for Ellen Schweizer (UBO)

2014- [Research associate](#) *3 years*

2017 Laboratoire d'Océanographie Physique et Spatiale, Brest

Ocean waves data analysis (stereo-video, acoustics) and numerical modelling (WaveWatch® III)

International collaborations and communications (scientific papers and conferences).

2014 [Research internship \(physical oceanography\)](#) *5 months*

IFREMER, Brest and SCRIPPS Institution Of Oceanography, San Diego (USA)

2013 [Research internship \(optics\)](#) *3 months*

Laboratoire Interdisciplinaire Carnot de Bourgogne, Dijon

Publications

- 2019 [SKIM, a Candidate Satellite Mission Exploring Global Ocean Currents and Waves](#)
Ardhuin F. et al.
Front. Mar. Sci., 6, 209
- 2018 [Note on the directional properties of meter-scale gravity-waves](#)
Peureux C., Ardhuin F., Benetazzo A.
Ocean Sci., 14(1), 41-52.
- 2017 [Three-wave and four-wave interactions in gravity wave turbulence](#)
Aubourg Q., Campagne A., Peureux C. et al.
Phys. Rev. Fluids, 2(11), 114802.
- 2016 [Ocean bottom pressure records from the Cascadia array and short surface gravity waves](#)
Peureux C., Ardhuin F.
J. Geophys. Res. Oceans, 121(5), 2862-2873.
- 2016 [Filamentation-induced spectral broadening and pulse shortening of infrared pulses in tellurite glass](#)
Béjot P., Billard F., Peureux C., Diard T. et al.
Opti. Commun., 380, 245-249.
- 2015 [Analysis and interpretation of frequency-wavenumber spectra of young wind-waves](#)
Leckler F., Ardhuin F., Peureux C. et al.
J. Phys. Oceanogr., 2015, 45(10), 2484-2496.
- 2014 [Covalent grafting of silatranes to carbon interfaces](#)
Peureux C., Jouikov V.
Chem. Eur. J., 20(30), 9220-9224.

Skills

Languages:

English (fluent, aural and written), german (fluent)

Numerics:

OS: Linux, Microsoft Windows

Programming languages: python (scientific and graphic uses), C, Fortran, ncl, matlab, html 5 & css 3

Numerical modelling: WaveWatch® III, HOS

Office suites: Libreoffice, Microsoft Office, Lyx, Latex

Graphics editors: Inkscape, Gimp, ImageJ, Gnuplot.

Driving license with vehicle