

PERSONAL INFORMATION

Christine Boone



 CLS, Parc technologique du Canal, 10-12 rue Hermès, 31520 Ramonville Saint-Agne, France

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Sex F | Date of birth 04/11/1963 | Nationality French

WORK EXPERIENCE

Since 2012

Scientist Executive in the "In situ & Composites" Department of the Environmental Business Unit, CLS.

Expertise on the quality of the temperature and salinity in-situ profiles, validation/analysis of the content of the remote (SST) and in-situ datasets. Studies done for the French Research Institute for Exploitation of the Sea (Ifremer) . Studies and operational delivery of remote and in situ observations for the French Operational Oceanography Centre (Mercator-Ocean) in the scope of Copernicus Marine Service Project (CMEMS).

Expertise on the validation of the ocean models (scope of development of a Fisheries and Environment Monitoring Center in Indonesia). Technical specifications, monitoring and qualification of the software developments, test review, project documentation.

Expertise Tropical Cyclone Heart Content (APMB (Fisheries Ministry, Vietnam)

Training: December 2012: 15-day training session in Vietnam on oceanographic topics

Development and maintenance of operational systems.

From 1997 to 2012

Scientist Executive in the Operational Oceanography Department of the Space Oceanography Division (DOS), CLS

Development and maintenance of a quasi-operational treatment of altimetric products.

Estimation of the usefulness of altimetric data for ocean knowledge for offshore platform design and operation off the continental shelf in the Northern Atlantic.

Study on the correction of high frequency signals in altimeter data.

Salinity retrieval from passive radiometer.

Validation of in-situ temperature/salinity measurements

From 1992 to 1997

Data Analyst at Goddard Space Flight Center/NASA, Maryland, USA, employed by Reaseach and Data System Corp.

Analysis of altimetry data to look for oceanic signals.

Comparison altimetry and insitu data

Water transport calculation for insitu data

EDUCATION AND TRAINING

From 1990-1992	<p>Master's thesis in Physical Oceanography: "The Dynamics of Barotropically Dominated Eddies"</p> <p>Department of Physical Oceanography - Florida State University – USA</p>
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From 07/1988 to 08/1998	Training "Turbulence around cylinders by spectral analysis of acoustic signals" Department of Mechanical and Manufacturing Engineering - Trinity College Dublin – Ireland
From 1987 - 1990	Engineering degree in Industrial Fluid Dynamics Ecole Nationale Supérieure d'Hydraulique et de Mécanique de Grenoble – France
From 1986 - 1987	Mechanical degree: « Maîtrise de mécanique » University Pierre and Marie Curie - Grenoble - France
07/1986	Training "Constraints in gallium arsenide by polarized infra red imagery" Grenoble Centre of Nuclear Studies (CENG) - France

PERSONAL SKILLS

Mother tongue(s) French

Other language(s)
English: Fluent
Spanish: Basic (scolar knowledge)

Other skills Fluent in programming language: Fortran, Wave, IDL, matlab, perl, perlidl, shell, python, html, php
On system: UNIX/Linux, windows

Driving licence B

ADDITIONAL INFORMATION

Publications

L. Bessi res, M. H. Rio, C. Dufau, C. Boone, and M. I. Pujol: "Ocean state indicators from MyOcean altimeter products", Ocean Sci., 9, 545-560, 2013.

Cabanes, C., A. Grouazel, K. von Schuckmann, M. Hamon, V. Turpin, C. Coatanoan, F. Paris, S. Guinehut, C. Boone, N. Ferry, C. de Boyer Mont g t, T. Carval, G. Reverdin, S. Pouliquen, and P. Y. Le Traon, 2013: "The CORA dataset: validation and diagnostics of in-situ ocean temperature and salinity measurements". Ocean Science, 9, 1-18, <http://www.ocean-sci.net/9/1/2013/os-9-1-2013.html>, doi:10.5194/os-9-1-2013.

Pascual A., C. Boone, G. Larnicol, P.-Y. Le Traon: "On the Quality of Real-Time Altimeter Gridded Fields: Comparison with In Situ Data", J. of Atmospheric and Oceanic Technology, Vol 26, No. 3, pp 556-569, 2009.

Tranchant B., C.-E. Testut, N. Ferry, L. Renault, E. Obligis, C. Boone, & G. Larnicol: "Data assimilation of simulated SSS SMOS products in an ocean forecasting system", Journal of Operational Oceanography, Vol 1, n 2, pp19-27, 2008.

Philipps S., Boone C., Obligis E.: "The role of averaging for improving sea surface salinity retrieval from the Soil Moisture and Ocean Salinity (SMOS) satellite and impact of auxiliary data". Journal of Atmospheric and Oceanic Technology, vol 24, n  2, pp 255 - 269, 2007.

Obligis E., Boone C., Philipps S., Larnicol G., Tranchant B., Le Traon P.-Y.: "Benefits of the future Sea Surface Salinity measurements from SMOS. Generation and characteristics of SMOS geophysical products". In press, IEEE Tgars, SMOS special issue, 2007.

Schaeffer, P., C. Boone, Y. Faug re & P.-Y. Le Traon, 2002: "Empirical correction of long wavelength errors in altimeter data", J. Atmos. Oceanic Technology (submitted).

W.-K. Dewar & Gaillard C.-J., 1994: "The dynamics of Barotropically Dominated Rings", Journal of Physical Oceanography, vol. 24, pp 5 - 29.