



**Dr Nicolas REUL**  
Physical Oceanographer

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**Background**

Dr. Nicolas Reul holds a PhD from the University of Marseille and is a specialist in air-sea interaction and retrieving ocean parameters from remote sensing data. He is presently research scientist, head of the project concerning Sea surface salinity remote sensing activities at IFREMER/Laboratoire d'Océanographie Spatial, which has been selected by the European Space Agency as an expert support laboratories (ESL) for SMOS mission and which hosts the CATDS (Centre Aval de Traitement des Données SMOS), the French CNES/CESBIO/IFREMER ground segment for SMOS level 3 and 4 products. Dr Reul hence provides scientific support to SMOS salinity Level 1, 2, 3 and 4 product ground segment development. Further research interests are in Climate change monitoring and remote sensing for the Mediterranean Sea.

**Activities in education**

Dr. Reul has contributed to lectures, exercises on ocean remote sensing at the Universities of Brest and Toulon.

**Distinctions / Memberships**

Member of the ESA/Science Advisory Group for the SMOS satellite mission since 2004

**Selected Publications**

1. Grodsky Semyon A., Reul Nicolas, Lagerloef Gary, Reverdin Gilles, Carton James A., Chapron Bertrand, Quilfen Yves, Kudryavtsev Vladimir N., Kao Hsun-Ying (2012). Haline hurricane wake in the Amazon/Orinoco plume: AQUARIUS/SACD and SMOS observations. *Geophysical Research Letters*, 39(L20603), 1-8.
2. Reul Nicolas, Tenerelli Joseph, Chapron Bertrand, Vandemark Doug, Quilfen Yves, Kerr Yann (2012). SMOS satellite L-band radiometer: A new capability for ocean surface remote sensing in hurricanes. *Journal Of Geophysical Research-oceans*, 117,, 117, C02006, doi:10.1029/2011JC007474.
3. Kerr Yann H., Waldteufel Philippe, Wigneron Jean-Pierre, Delwart Steven, Cabot Francois, Boutin Jacqueline, Escorihuela Maria-Jose, Font Jordi, Reul Nicolas, Gruhier Claire, Juglea Silvia Enache, Drinkwater Mark R., Hahne Achim, Martin-Neira Manuel, Mecklenburg Susanne (2010). The SMOS Mission: New Tool for Monitoring Key Elements of the Global Water Cycle. *Proceedings of the IEEE*, 98(5), 666-687
4. Reul Nicolas, Branger H, Giovanangeli J.P. (2008). Air Flow Structure Over Short-gravity Breaking Water waves. *Boundary-Layer Meteorology*, 126(3), 477-505
5. Donelan Ma, Haus Bk, Reul Nicolas, Plant Wj, Stiassnie M, Graber Hc, Brown Ob, Saltzman Es (2004). On the limiting aerodynamic roughness of the ocean in very strong winds. *Geophysical Research Letters*, 31(18)