

Dr Jérôme Benveniste

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Short version

Jérôme Benveniste received the Ph.D. degree in 1989.

After a PhD in Toulouse and a Post-Doc at MIT, he has been with the European Space Agency since 1992, at the Earth Observation data center near Rome, where he is in charge of the ERS-1 ERS-2 and ENVISAT radar altimeter data exploitation, interaction with ESA EO Principal Investigators and Research & Development projects, including CryoSat, GOCE and SMOS data exploitation and establishing science requirements for the Sentinel-3 Radar Altimetry.

Long version

Dr. Jérôme Benveniste received the Ph. D. degree from the University Paul Sabatier in Toulouse France, in 1989, for his work done at the CNES-GRGS Laboratory on Large Scale Ocean Circulation as Observed by Satellite Altimetry.

He then was granted a two-year fellowship by ESA and M.I.T. to perform Postdoctoral research at M.I.T., Cambridge, Massachusetts, USA, on Assimilation of Radar Altimeter Data into an Ocean General Circulation Model using a Steady State Kalman Filter. These activities were in preparation of ERS-1 and Topex-Poseidon launches.

He returned to Europe to join the European Space Agency in 1992:

- He was in charge of the ERS-1 Radar Altimeter and Microwave Radiometer Off-Line Precision Product Quality Enhancement and interfacing with the Principal Investigators using ERS-1 Altimetry
- He was subsequently given the responsibility to lead the ERS-2 Radar Altimeter and Microwave Radiometer Commissioning Calibration and Validation Working Group
- He was in Charge of the Envisat Radar Altimeter-2 and Microwave Radiometer Products Definition and Processing Chains Development, managing the Expert Support Laboratories.
- He was the coordinator of the Envisat Radar Altimeter-2 and Microwave Radiometer Cross-Calibration and Validation Team.
- He is in charge of the interfacing with ESA Earth Observation Principal Investigators (ERS, Envisat, CryoSat, GOCE, SMOS) and more generally of the ESA EO Data Exploitation.
- He is a Member of the Envisat Radar Altimeter-2, CryoSat, GOCE and SMOS Science Advisory Groups
- He is the Project Manager of a contract to develop global rivers and lakes level monitoring from ERS and Envisat Radar Altimetry.
- He is the Project Manager of three contracts to develop applications of the Envisat Radar Altimeter-2 Individual echoes and S band data and the dual use of CryoSat and Envisat Altimetry.
- He is the Project Manager of a contract to develop an oceanographic near-real-time processor for CryoSat data in support of Meteorological Offices and the Global Ocean Data Assimilation Experiment.
- He was appointed coordinator of the CryoSat Radar Altimeter Ocean Cross-Calibration and Validation Team, prior to the launch failure.
- He lead the organization of the landmark event "15 years of Progress in Radar Altimetry" in Venice, Italy 13-18 March 2006.

Punctual but remarkable milestones while at ESA:

- Publication in ESA Bulletin 76, 1993: "Towards better usage of satellite altimetry data"
- Publication in ESA Bulletin 98, 1999: "The Envisat Radar Altimeter System (RA-2)"

- Publication in ESA Bulletin 106, 2001: “The Radar Altimetry Mission: RA-2, MWR, DORIS, LRR”
- Publication in ESA Bulletin 117, 2004: “Monitoring River and Lakes from Space”
- Co-author on 2 to 5 papers on Satellite Altimetry at EGS/EGU and AGU every year for the past 15 years
- Delegate for CAB-INT for coordination with Ukraine on Altimetry.
- Delegate for CAB-INT for coordination with Russia (INTAS proposal) on Altimetry.
- Chairman of Satellite Altimetry Session at AGU Spring Meeting 1996, Baltimore
- Various presentations and chairmanships at ESA symposia: Cannes 92, Hambourg 93, London 95, Goteborg 1999, Salzburg 2004
- Chairman of Satellite Altimetry Session at 2002 EGS
- Chairman of Satellite Altimetry Session at 2003 Hydrology From Space Workshop
- Organiser of the 2nd Int’l GOCE User Workshop, 2004
- Co-organiser of the 5th Int’l SMOS User Workshop, 2004
- Co-organiser of the Int’l CryoSat User Workshop, 2005
- Co-organiser of the 5th Int’l SMOS User Workshop, 2004
- Organiser of the "15 Years of Progress in Radar Altimetry" Symposium, 2006
- Organiser of the 3rd Int’l GOCE User Workshop, 2006
- Member of the Scientific Committees and chairman of the Oceanography and the Hydrology Sessions at COSPAR, 2006
- Referee for several scientific journals
- PhD advisor
- Member of jury for three PhD thesis defences
- Member of evaluation committee of French National research laboratory

All publications are listed in another document.