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Current Position: Research Scientist with Chapman University, Orange, CA, U.S.A.
 and the Cryosphere Sciences Laboratory, NASA/Goddard Space Flight Center, Greenbelt, MD, U.S.A.

EDUCATION (*UNIVERSITÉ PIERRE ET MARIE CURIE, PARIS, FRANCE*)

- 1999- 2003 Ph.D. in Computer Sciences, Telecommunications, and Electronics at Laboratoire d'Océanographie DYnamique et de Climatologie (LODYC), Paris, France
 Passive microwave remote sensing within the scope of the Soil Moisture and Ocean Salinity (SMOS) mission of the European Space Agency (ESA).
 Thesis Title: De la détermination de la salinité de surface des océans à partir de mesures radiométriques hyperfréquences en bande L
- 1998- 1999 ADVANCED POST-GRADUATE DEGREE ("DIPLÔME D'ETUDES APPROFONDIES")
 Institut d'Astrophysique de Paris (IAP), Paris, FRANCE
 Specialty: Instrumental Methods in Astrophysics and their Spatial Applications
- 1997- 1998 MASTER'S DEGREE ("MAÎTRISE") Specialty: Physics and Applications
 Specializations: - Plasma Physics - Astrophysics
- 1996- 1997 BACHELOR'S DEGREE ("LICENCE") Specialty: Physics and Applications
 Specializations: - Electronics - Signal Processing

RESEARCH INTERESTS

Active and Passive Microwave Remote Sensing, Sea Surface Salinity, Radiative Transfer and Scattering From Rough Surfaces, Oceanic Processes in Polar Regions

SCIENTIFIC EXPERIENCE

- 2007- 2010 Assistant Research Scientist with the Goddard Earth Sciences and Technology Center/University of Maryland Baltimore County (GEST/UMBC) and NASA/GSFC
- 2006- 2007 NASA Postdoctoral Fellow with Oak Ridge Associated Universities sponsorship, NASA/GSFC
- 2005 Research Associate with the NASA Post-doctoral Program (National Research Council sponsorship), NASA/GSFC
- 2003- 2005 Research Fellow at the European Space Agency/ESTEC, Noordwijk, Netherlands
- 1999- 2003 Ph.D. student at LODYC, Paris, France
- 1999 Postgraduate internship at LODYC (March-June)
Étude de sensibilité sur l'estimation de la salinité à partir de mesures hyperfréquences en bande L
- 1998 Master's internship at Institut d'Astrophysique de Paris, Paris, France (June-September)
Profils d'entropie spécifique dans les galaxies elliptiques et dans le gaz X des amas de galaxies

TEACHING EXPERIENCE

- 2002 Computer Science at Université Pierre et Marie Curie, Paris, France
 Remedial courses in computer science, Université Pierre et Marie Curie
- 1993- 1998 Private lessons in mathematics, biology et physics

PROFESSIONAL ACTIVITIES**Professional Society**

Member, American Geophysical Union

Member, Institute of Electrical and Electronics Engineers

Conference Activities

Session Chair, IEEE International Geoscience and Remote Sensing Symposium, Milan, Italy (2015)

Session Chair, XXXI General Assembly of the International Union of Radio Science (URSI), Beijing, China (2014)

Session Chair and Co-Chair (3 sessions), IEEE International Geoscience and Remote Sensing Symposium, Quebec, Canada (2014)

Session Chair and Co-Chair (2 sessions), The 13th Specialist Meeting on Microwave Radiometry and Remote Sensing of the Environment (MicroRad), Pasadena, CA, USA (2014).

Technical Reviewer

Reviewer Journal of Geophysical Research

Reviewer IEEE Transactions on Geoscience and Remote Sensing

Reviewer IEEE Geoscience and Remote Sensing Letters

Reviewer Remote Sensing of Environment

Reviewer Sensors

NASA ROSES review panel

AWARDS

- 2013 NASA Group Achievement Award
Aquarius Science Calibration and Validation Team
- 2012 NASA Group Achievement Award
AQ Launch, Early Orbit Ops, and Commissioning Team
- 2008 NASA Goddard Space Flight Center – Hydrospheric and Biospheric Sciences Laboratory
Peer Award for outstanding publication
- 2006 NASA Goddard Space Flight Center – Hydrospheric and Biospheric Sciences Laboratory
Peer Award for outstanding Post-Doc/Research Associate

PUBLICATIONS, CONFERENCES, ...**PEER REVIEWED ARTICLES**

X. Yin, J. Boutin, E. Dinnat, Q. Song, and A. Martin, “Roughness and foam signature on SMOS-MIRAS brightness temperatures: a semi-theoretical approach,” *Remote Sensing of Environment*, In Press, 2016.

J. Boutin, Y. Chao, W. Asher, T. Delcroix, R. Drucker, K. Drushka, N. Kolodziejczyk, T. Lee, N. Reul, G. Reverdin, J. Schanze, A. Soloviev, L. Yu, J. Anderson, L. Brucker, E. Dinnat, A. Garcia, W. Jones, C. Maes, T. Meissner, W. Tang, N. Vinogradova, and B. Ward, “Satellite and in situ salinity: Understanding near-surface stratification and sub-footprint variability,” *Bulletin of the American Meteorological Society*, accepted, 2016.

E. Dinnat, D. M. Le Vine, J. Piepmeier, S. Brown, and L. Hong, “Aquarius L-band radiometers calibration using cold sky observations,” *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, p. PP, Dec 2015.

D. M. Le Vine, E. Dinnat, T. Meissner, S. Yueh, F. Wentz, S. Torrusio, and G. Lagerloef, “Status of Aquarius/SAC-D and Aquarius salinity retrievals,” *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, June 2015.

A. Colliander, E. Dinnat, D. Le Vine, C.-S. Chae, and J. Kainulainen, “Assessing long-term stability of SMOS zero-baseline antenna temperature using the Aquarius antenna temperature simulator,” *Geoscience and Remote Sensing Letters, IEEE*, vol. 12, no. 8, pp. 1680–1684, Aug 2015.

D. M. Le Vine, E. P. Dinnat, G. S. E. Lagerloef, P. de Matthaeis, S. Abraham, C. Utku, and H.-Y. Kao, “Aquarius: Status and recent results,” *Radio Science*, vol. 49, no. 9, pp. 709–720, September 2014.

D. M. Le Vine, E. Dinnat, G. S. E. Lagerloef, P. de Matthaeis, S. Abraham, C. Utku, and H.-Y. Kao, “Aquarius: status and recent results,” *Radio Science*, 2014.

L. Brucker, E. P. Dinnat, G. Picard, and N. Champollion, “Effect of snow surface metamorphism on Aquarius L-band radiometer observations at Dome C, Antarctica,” *IEEE Trans. Geosci. Remote Sensing*, vol. 52, no. 11, pp. 7408–7417, Nov 2014.

L. Brucker, E. P. Dinnat, and L. Koenig, “Weekly-gridded Aquarius L-band radiometer/scatterometer observations and salinity retrievals over the polar regions – Part 1: Product description,” *The Cryosphere*, vol. 8, no. 3, pp. 905–913, 2014.

———, “Weekly-gridded Aquarius L-band radiometer/scatterometer observations and salinity retrievals over the polar regions – Part 2: Initial product analysis,” *The Cryosphere*, vol. 8, no. 3, pp. 915–930, 2014.

A. Martin, J. Boutin, D. Hauser, and E. Dinnat, “Active-passive synergy for interpreting ocean L-band radiometric signal: results from airborne measurements,” *Journal of Geophysical Research*, 2014.

G. Vernieres, R. Kovach, S. Akella, C. Kepenne, L. Brucker, E. Dinnat, and A. Borovikov, “The impact of the assimilation of Aquarius sea surface salinity data in the GEOS Ocean Data Assimilation System,” *Journal of Geophysical Research*, 2014.

D. M. Le Vine, S. Abraham, C. Utku, and E. P. Dinnat. Aquarius third Stokes parameter measurements: Initial results. *IEEE Geoscience and Remote Sensing Letters*, 10(3), May 2013.

David M. Le Vine, Emmanuel P. Dinnat, Saji Abraham, Paolo de Matthaeis, and Frank J. Wentz. The Aquarius simulator and cold-sky calibration. *IEEE Transactions on Geoscience and Remote Sensing*, 49(9):3198–3210, September 2011.

David M. Le Vine, Emmanuel P. Dinnat, Daniel S. Jacob, Saji Abraham, and Paolo de Matthaeis. Impact of antenna pattern on measurement of the third Stokes parameter from space at L-band. *IEEE Transactions on Geoscience and Remote Sensing*, 49(1):406–414, Jan. 2011.

Emmanuel P. Dinnat, S. Abraham, D. M. Le Vine, Paolo De Matthaeis and Daniel Jacob. Effect of emission from the Moon on remote

sensing of sea surface salinity: an example with the Aquarius radiometer. *IEEE Geoscience and Remote Sensing Letters*, 6(2): 239–243, April 2009.

Emmanuel P. Dinnat and David M. Le Vine. Impact of Sun glint on salinity remote sensing: an example with the Aquarius radiometer. *IEEE Transactions on Geoscience and Remote Sensing*, 46(10): 3137–3150, Oct. 2008.

David M. Le Vine, Daniel S. Jacob, Emmanuel P. Dinnat, Paolo De Matthaeis, and Saji Abraham. The influence of antenna pattern on Faraday rotation in remote sensing at L-band. *IEEE Transactions on Geoscience and Remote Sensing*, 45(9): 2737–2746, Sep. 2007.

Emmanuel Philippe Dinnat and David Michael Le Vine. Effects of the antenna aperture on remote sensing of sea surface salinity at L-band. *IEEE Transactions on Geoscience and Remote Sensing*, 45(7): 2051–2060, July 2007.

Gérard Caudal, Emmanuel Philippe Dinnat, and Jacqueline Boutin. Absolute calibration of radar altimeters : Consistency with electromagnetic modeling. *Journal of Atmospheric and Oceanic Technology*, 22(5):771–781, June 2005.

Jacqueline Etcheto, Emmanuel Dinnat, Jacqueline Boutin, Adriano Camps, Jerry Miller, Stéphanie Contardo, Joel Wesson, Jordi Font, and David Long. Wind speed effect on L-band brightness temperature inferred from EuroSTARRS and WISE 2001 field experiments. *IEEE Transactions on Geoscience and Remote Sensing*, 42(10):2206–2213, October 2004.

Jacqueline Boutin, Philippe Waldteufel, Nicolas Martin, Gérard Caudal, and Emmanuel Dinnat. Salinity retrieved from SMOS measurements over global ocean: Imprecisions due to surface roughness and temperature uncertainties. *Journal of Atmospheric and Oceanic Technology*, 21(9):1432–1447, Sep. 2004.

Philippe Waldteufel, Nicolas Floury, Emmanuel Dinnat, and Gérard Caudal. Ionospheric effects for L-band 2-D interferometric radiometry. *IEEE Transactions on Geoscience and Remote Sensing*, 42(1):105–118, Jan. 2004.

Emmanuel P. Dinnat, Jacqueline Boutin, Gérard Caudal, and Jacqueline Etcheto. Issues concerning the sea emissivity modeling at L-band for retrieving surface salinity. *Radio Science*, 38(4):25–1–25–11, 2003.

Emmanuel P. Dinnat, Jacqueline Boutin, Gérard Caudal, Jacqueline Etcheto, and Philippe Waldteufel. Influence of sea surface emissivity model parameters at L-band for the estimation of salinity. *International Journal of Remote Sensing*, 23(23):5117–5122, Dec. 2002.

CONFERENCES AND MEETINGS

Invited Talks

E. P. Dinnat, D. M. Le Vine, J. R. Piepmeier, and S. Brown, “Aquarius radiometers calibration,” in *IEEE International Geoscience and Remote Sensing Symposium*, Milan, Italy, 26–31 July 2015.

L. Brucker, E. Dinnat, A. Roy, and C. Yardim, “On the use of Aquarius observations to study the cryosphere at high latitudes,” in *IEEE International Geoscience and Remote Sensing Symposium*, Milan, Italy, 26–31 July 2015.

D. Le Vine, E. Dinnat, T. Meissner, F. Wentz, S. Yueh, and G. Lagerloef, “Remote sensing of salinity and overview of results from Aquarius,” in *IEEE International Geoscience and Remote Sensing Symposium*, Milan, Italy, 26–31 July 2015.

J. R. Piepmeier, J. Peng, D. Hudson, D. L. Vine, E. Dinnat, S. Misra, E. Kim, G. DeAmici, and P. N. Mohammed, “SMAP L-Band microwave radiometer calibration,” in *IEEE International Geoscience and Remote Sensing Symposium*, Milan, Italy, 26–31 July 2015.

E. Dinnat, J. Boutin, D. L. Vine, and X. Yin, “Inter-comparison of Aquarius and SMOS calibration and impact on sea surface salinity products,” in *American Geophysical Union, Fall meeting*, San Francisco, USA, 15 - 19 December 2014.

E. P. Dinnat, J. Boutin, X. Yin, D. Le Vine, P. Waldteufel, and J.-L. Vergely, “Comparison of SMOS and Aquarius sea surface salinity and analysis of possible causes for the differences,” in *31st URSI General Assembly*, Beijing, China, 16–23 August 2014.

D. M. L. Vine, G. S. E. Lagerloef, P. de Matthaeis, E. P. Dinnat, and S. Abraham, “Aquarius overview and update,” in *31st URSI General Assembly*, Beijing, China, 16–23 August 2014.

E. P. Dinnat, J. Boutin, X. Yin, and D. Le Vine, "The impact of dielectric constant model and surface reference on differences between SMOS and Aquarius sea surface salinity," in *IEEE International Geoscience and Remote Sensing Symposium*, Quebec, Canada, 13–18 July 2014.

L. Brucker, E. Dinnat, G. Picard, and N. Champollion, "L-band brightness temperature variations at Dome C and snow metamorphism at the surface," in *IEEE International Geoscience and Remote Sensing Symposium*, Quebec, Canada, 13–18 July 2014.

L. Brucker, E. Dinnat, and L. Koenig, "Aquarius radiometer and scatterometer weekly-polar-gridded products to monitor ice sheets, sea ice, and frozen soil," in *IEEE International Geoscience and Remote Sensing Symposium*, Quebec, Canada, 13–18 July 2014.

E. P. Dinnat, D. Le Vine, and S. Abraham, "Aquarius cold sky maneuvers: assessing calibration bias, temporal drift, and antenna back lobes," in *IEEE International Geoscience and Remote Sensing Symposium*, Melbourne, Australia, 21–26 July 2013.

E. P. Dinnat, D. Le Vine, S. Abraham, and P. de Matthaeis, "Comparisons of Aquarius measurements over oceans with radiative transfer models at L-band," in *IEEE International Geoscience and Remote Sensing Symposium*, Munich, Germany, July 2012.

E. P. Dinnat, J. Boutin, J. Miller, D. Long, S. Contardo, and J. Wesson, "The need for high resolution wind products for airborne radiometric campaigns dedicated to roughness studies: a practical example at L-band," in *IEEE International Geoscience and Remote Sensing Symposium*, Denver, USA, 2006.

Conferences with proceedings

A. Colliander, J. Kainulainen, E. Dinnat, C.-S. Chae, F. Torres, I. Corbella, R. Oliva, and M. Martin-Neira, "Advances in calibration of the SMOS zero-baseline radiometers," in *Microwave Radiometry and Remote Sensing of the Environment (MicroRad)*, Pasadena, CA, USA, March 2014.

E. P. Dinnat, D. Le Vine, R. Bindlish, and J. Piepmeier, "Aquarius whole range calibration: Celestial Sky, ocean, and land targets," in *Microwave Radiometry and Remote Sensing of the Environment (MicroRad)*, Pasadena, CA, USA, March 2014.

E. P. Dinnat, J. Boutin, X. Yin, and D. M. Le Vine, "Inter-comparison of SMOS and Aquarius sea surface salinity, and effects of the dielectric constant and vicarious calibration," in *Microwave Radiometry and Remote Sensing of the Environment (MicroRad)*, Pasadena, CA, USA, March 2014.

D. Le Vine, E. P. Dinnat, J. Piepmeier, P. de Matthaeis, S. Abraham, G. Lagerloef, T. Meissner, and F. Wentz, "Aquarius radiometer status," in *Microwave Radiometry and Remote Sensing of the Environment (MicroRad)*, Pasadena, CA, USA, March 2014.

Andreas Colliander, Emmanuel P. Dinnat, David Le Vine, and Juha Kainulainen. Synthesizing SMOS zero-baselines with Aquarius brightness temperature simulator. In *IEEE International Geoscience and Remote Sensing Symposium*, Munich, Germany, July 2012.

Emmanuel P. Dinnat, David Le Vine, and Saji Abraham and Paolo de Matthaeis. Comparisons of Aquarius measurements over oceans with radiative transfer models at L-band. In *IEEE International Geoscience and Remote Sensing Symposium*, Munich, Germany, July 2012.

Emmanuel P. Dinnat, David Le Vine, Saji Abraham, Paolo de Matthaeis, and Cuneyt Utku. Comparison of Aquarius measurements and radiative transfer models at L-band. In *Microwave Radiometry and Remote Sensing of the Environment (MicroRad)*, Rome, Italy, March 2012.

D.M. Le Vine, G.S.E. Lagerloef, C. Ruf, F. Wentz, S. Yueh, J. Piepmeier, E. Lindstrom, and E. Dinnat. Aquarius: The instrument and initial results. In *Microwave Radiometry and Remote Sensing of the Environment (MicroRad)*, March 2012.

D. M. Le Vine, Emmanuel Dinnat, S. D. Jacob, S. Abraham, and P. de Matthaeis. Spurious signal in measurement of the third Stokes parameter from space at L-band. In *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, July 2010.

Saji Abraham, David M. Le Vine, and Emmanuel P. Dinnat. Background emissions during cold sky calibration of Aquarius. In *Proceedings of MicroRad 2010*, Washington, DC, USA, 1-4 March 2010.

E.P. Dinnat, D.M. Le Vine and S. Abraham. L-band radiometry and reflection of the galaxy by a rough ocean surface, *Microwave Radiometry and Remote Sensing of the Environment (MICRORAD)* 2008, 1–4, 11-14 March 2008.

Emmanuel P. Dinnat, Paolo De Matthaeis, and D. M. Le Vine. Sun glint and sea surface salinity remote sensing. *IEEE International Geoscience and Remote Sensing Symposium (IGARSS '07)*, Barcelona, Spain, July 2007.

D. M. Le Vine, S. D. Jacob, S. Abraham, Emmanuel P. Dinnat, and Paolo De Matthaeis. The influence of antenna pattern on Faraday rotation in remote sensing at l-band. *IEEE International Geoscience and Remote Sensing Symposium (IGARSS '07)*, Barcelona, Spain, July 2007.

David M. Le Vine, Gary S.E. Lagerloef, Frank Wentz, Simon Yueh, Fernando A Pellerano and Emmanuel Dinnat. Aquarius Mission Technical Overview. *IEEE International Geoscience and Remote Sensing Symposium, 2006 (IGARSS '06)*, 1678–1680, Denver, CO, July 2006.

Emmanuel Philippe Dinnat and David Michael Le Vine. Effects of the antenna aperture on remote sensing of sea surface salinity at L-band. In *Proceedings MicroRad'06*, San Juan, Puerto Rico, 2006.

Emmanuel P. Dinnat and Mark Drinkwater. Optimizing the Active/Passive synergy in the frame of sea surface salinity retrieval from microwave measurements at l-band. In *Proceedings MicroRad'04*, Rome, Italy, 2004.

Jacqueline Boutin, Philippe Waldteufel, Nicolas Martin, Yann Kerr, Gérard Caudal, Emmanuel Dinnat, and Jacqueline Etcheto. Uncertainties on salinity retrieved from SMOS measurements over global ocean. In *Geoscience and Remote Sensing Symposium, 2003. IGARSS '03. 2003 IEEE International*, 2003.

J. Etcheto, E. Dinnat, J. Boutin, A. Camps, J. Mille, S. Contardo, and J. Font. L-band sea surface emissivity : measurements versus model comparison. In *Geoscience and Remote Sensing Symposium, 2002. IGARSS '02. 2002 IEEE International*, volume 6, pages 3129–3131, 2002..

E. Dinnat, J. Etcheto, J. Boutin, G. Caudal, A. Weill, A. Camps, J. Miller, and S. Contardo. Sea state influence on L-band emissivity in various fetch conditions. In *Geoscience and Remote Sensing Symposium, 2002. IGARSS '02. 2002 IEEE International*, volume 6, pages 3632–3634, 2002..

Jacqueline Boutin, Emmanuel Dinnat, Philippe Waldteufel, Jacqueline Etcheto, Gérard Caudal, and M. Srokosz. SSS retrieval from SMOS measurements : issues related to surface conditions. In *Oceanobs'99 conference proceedings*. CNES, Saint Raphael, France, 1999.

Conferences without proceedings

E. P. Dinnat, D. M. Le Vine, Y. Soldo, G. Lagerloef, and T. Meissner, “Recent improvements in L-band observations of ocean salinity by Aquarius,” in *National Radio Science Meeting (USNC-URSI)*, Boulder, CO, U.S.A., 6–9 Jan 2016.

E. P. Dinnat, D. Le Vine, R. Bindlish, and J. Piepmeier, “Aquarius calibration using celestial sky, ocean and land,” in *IEEE International Geoscience and Remote Sensing Symposium*, Quebec, Canada, 13–18 July 2014.

A. Colliander, J. Kainulainen, F. Torres, I. Corbella, E. Dinnat, R. Oliva, and M. Martn-Neira, “Enhanced operation mode for SMOS zero-baseline radiometers,” in *IEEE International Geoscience and Remote Sensing Symposium*, Quebec, Canada, 13–18 July 2014.

C.-S. Chae, S. T. Brown, A. Colliander, S. Misra, X. Xu, S. Yueh, and E. Dinnat, “Intercalibration of Aquarius and SMOS third stokes parameter measurements,” in *IEEE International Geoscience and Remote Sensing Symposium*, Quebec, Canada, 13–18 July 2014.

—, “Intercomparison of brightness temperature measurements from Aquarius and SMOS radiometers,” in *IEEE International Geoscience and Remote Sensing Symposium*, Quebec, Canada, 13–18 July 2014.

X. Yin, J. Boutin, E. P. Dinnat, N. Martin, and S. Guimbard, “SMOS SSS uncertainties associated with errors on auxiliary parameters,” in *European Geophysical Union (EGU) General Assembly*, Vienna, Austria, April 2014.

C.-S. Chae, S. T. Brown, A. Colliander, S. Misra, X. Xu, S. H. Yueh, and E. P. Dinnat, “A comparative study of Stokes parameters from Aquarius and SMOS measurements,” in *Microwave Radiometry and Remote Sensing of the Environment (MicroRad)*, Pasadena, CA,

USA, March 2014.

L. Brucker, E. P. Dinnat, G. Picard, and N. Champollion, "Effect of snow surface change on L-band observations at Dome C, Antarctica," in *Microwave Radiometry and Remote Sensing of the Environment (MicroRad)*, Pasadena, CA, USA, March 2014.

L. Brucker, E. P. Dinnat, and L. Koenig, "Weekly-gridded Aquarius radiometer and scatterometer products over the polar regions: Cryospheric applications," in *Microwave Radiometry and Remote Sensing of the Environment (MicroRad)*, Pasadena, CA, USA, March 2014.

L. Brucker, E. P. Dinnat, G. Vernières, R. Kovach, and L. Koenig, "Assessment of the Aquarius space-borne sea surface salinity retrievals in polar ocean," in *Microwave Radiometry and Remote Sensing of the Environment (MicroRad)*, Pasadena, CA, USA, March 2014.

A. Martin, J. Boutin, D. Hauser, and E. Dinnat, "Active-passive synergy for interpreting ocean L-band radiometric signal: results from airborne measurements," in *American Geophysical Union (AGU) Ocean Sciences Meeting*, Honolulu, HI, USA, February 2014.

L. Brucker, E. Dinnat, L. Koenig, S. M. Hakkinen, G. Picard, G. Vernières, A. Borovikov, R. Kovach, and N. Champollion, "Aquarius for the polar regions: a new gridded product and its analysis over the cryosphere," in *American Geophysical Union, Fall meeting*, San Francisco, USA, 2013.

Emmanuel P. Dinnat, David Le Vine, and Saji Abraham. Aquarius cold sky maneuvers: assessing calibration bias, temporal drift, and antenna back lobes. In *IEEE International Geoscience and Remote Sensing Symposium*, Melbourne, Australia, 21–26 July 2013.

Yiwen Zhou, Roger H. Lang, Cuneyt Utku, Emmanuel P. Dinnat, and David Le Vine. Seawater permittivity model function with new L-band seawater measurements at 33 psu. In *IEEE International Geoscience and Remote Sensing Symposium*, Melbourne, Australia, 21–26 July 2013.

Jeffrey Piepmeier, David Levine, Emmanuel Dinnat, Liang Hong, Shannon Brown, Sidharth Misra, Simon Yueh, Thomas Meissner, Frank Wentz, Amanda Mims, Christopher Ruf, and Gary Lagerloef. Aquarius radiometer calibration and on-orbit assessment. *Microwave Radiometry and Remote Sensing of the Environment (MicroRad)*, Rome, Italy, March 2012.

Emmanuel P. Dinnat, David Le Vine, Saji Abraham, Daniel Jacob, and Paolo de Matthaeis. The Aquarius simulator: a scientific tool for preparing the remote sensing of sea surface salinity. *MicroRad 2010*, Washington, DC, USA, 2010.

P. de Matthaeis, D. M. Le Vine, E. Dinnat, D. S. Jacob, and S. Abraham. Simulation of the Aquarius radar scatterometer. In *XXIX URSI General Assembly*, Chicago, IL, USA, 07-16 August 2008.

S. Abraham, D.M. Le Vine, D.S. Jacob, E.P. Dinnat, and P. De Matthaeis. Effect of lunar emission on Aquarius measurements. *CNC/USNC - North American Radio Science Meeting*, Ottawa, ON, Canada, 22–26 July 2007.

Emmanuel P. Dinnat, Jacqueline Boutin, Jerry Miller, David Long, Stephanie Contardo, and Joel Wesson. The need for high resolution wind products for airborne radiometric campaigns dedicated to roughness studies: a practical example at L-band. In *Geoscience and Remote Sensing Symposium*, 2006. *IGARSS '06*. 2006 IEEE International, 2006.

Jacqueline Boutin, Jacqueline Etcheto, Emmanuel Dinnat, Jerry Miller, David Long, Stéphanie Contardo, and Joel Wesson. Wind speed effect on L-band brightness temperature inferred from EuroSTARRS 2001 field experiment and QuikSCAT high resolution data. In *Ocean Sciences Meeting*, Portland, USA, 2004.

J. Etcheto, E. Dinnat, J. Boutin, J. Miller, Ph. Waldteufel, A. Camps, J. Font, S. Contardo, and N. Martin. Sea surface salinity remote sensing: recent results. In *International Symposium, En route to GODAE*, Biarritz, France, June 2002.

Jacqueline Boutin, Emmanuel Dinnat, Jacqueline Etcheto, and Gérard Caudal. Modelled emissivities in WISE conditions. In *WISE midterm meeting*, Barcelona, Spain, 2001.

Emmanuel P. Dinnat, Jacqueline Boutin, Gérard Caudal, Jacqueline Etcheto, and Adriano Camps. Sensibility study of L-band emissivity model. In *Specialist meeting on microwave remote sensing conference*, Boulder, USA, 2001.

Emmanuel P. Dinnat, Jacqueline Boutin, Gérard Caudal, Jacqueline Etcheto, and Philippe Waldteufel. Influence of the sea surface parameters on SMOS salinity retrieval. In Ocean from space conference, Venice, Italy, 2000.

Jacqueline Boutin, Emmanuel Dinnat, Philippe Waldteufel, Jacqueline Etcheto, and Gérard Caudal. Errors induced by the SST and sea state on the retrieved SSS in the SMOS configuration. In Salinity and Sea Ice Working Group 3rd Meeting, San Antonio, USA, 2000.

Seminar

Emmanuel P. Dinnat. Vers la télédétection de la salinité de surface des océans par radiométrie hyperfréquence en bande L. In Centre des Environnements Terrestres et Planétaires, Vélizy, France, december 2004.

Emmanuel P. Dinnat. Active/Passive synergy in the frame of sea surface salinity retrieval from microwave measurements at L-band. In ESTEC, European Space Agency, Noordwijk, Netherlands, May 2004.

Emmanuel P. Dinnat. The role of surface roughness in remote sensing of sea surface salinity at L-band. In Goddard Space Flight Center, NASA, Washinton, USA, april 2004.

Emmanuel P. Dinnat. Active/Passive synergy in measuring the Sea Surface Salinity (SSS) from space, 13th SMOS Science Advisory Group. In ESTEC, European Space Agency, Noordwijk, Netherlands, October 2003.

BOOK CHAPTERS

Emmanuel Philippe Dinnat and Jacqueline Boutin. Thermal Microwave Radiation: Applications for Remote Sensing, chapter Microwave radiometry at L-band: toward a global monitoring of Sea Surface Salinity, page 19. IET Electromagnetic Waves Series 52. IEE, London, UK, 2006.

REPORTS

Jeffrey Piepmeier, Shannon Brown, Joel Gales, Liang Hong, Gary Lagerloef, David Le Vine, Paolo de Matthaeis, Thomas Meissner, Rajat Bindlish, Thomas Jackson, and Emmanuel Dinnat. Aquarius radiometer post-launch calibration for product version 2. Technical Report AQ-014-PS-0015, NASA, 2013.

Emmanuel Philippe Dinnat, Jacqueline Boutin, Gérard Caudal, Jacqueline Etcheto, and Stéphanie Contardo. On the use of EuroSTARRS and WISE data for validating L-band emissivity models. In First Results Workshop, EuroSTARRS/WISE/LOSAC Campaigns, ESA SP-525, pages 117–124. ESTEC/European Space Agency, April 2003.

Stéphanie Contardo, Emmanuel Philippe Dinnat, Jacqueline Boutin, and Jacqueline Etcheto. Taking into account geometric and radiative transfer effects in EuroSTARRS model/data comparison. In First Results Workshop, EuroSTARRS/WISE/LOSAC Campaigns, ESA SP-525, pages 125–131. ESTEC/European Space Agency, April 2003.

Jacqueline Etcheto, Emmanuel Philippe Dinnat, Stéphanie Contardo, and Jacqueline Boutin. Comparison of EuroSTARRS and WISE measurements with sea surface emissivity models. In First Results Workshop, EuroSTARRS/WISE/LOSAC Campaigns, ESA SP-525, pages 133–136. ESTEC/European Space Agency, April 2003.

Jacqueline Boutin, Estelle Obligis, and Emmanuel Dinnat. WP1120, influence of surface roughness on Tb simulated in L-band by Yueh-LODYC emissivity model and by UCL model - analyse of the differences. In Scientific requirements and impact of space observation of ocean salinity for modeling and climate studies: final report. NERSC technical report n214 under contract n14273/00/NL/DC European Space Agency, 2002.

OTHER

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