



SMOS RELATED PUBLICATIONS

As of **February 1, 2009**

This represent a summary of what I have identified. Please let me know if I missed anything by sending the refernces and possibly a reprint of the publication

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Books and book sections

Kerr, Y.H., ed. *Modélisation de la végétation en micro-ondes passives*. Cepadues Editions. 1990. 813-820.

Choudhury, B.J., et al., *Passive Microwave Remote Sensing of Land-Atmosphere Interactions*. 1995: VSP.

Kerr, Y.H., et al., *Requirements for assessing soil moisture from space in arid and semi arid areas*, in *Soil Moisture and Ocean Salinity (SMOS) Measurement Requirements and Radiometer Techniques*, N. ESA, Pays-Bas, Editor. 1995. p. 15-33.

Kerr, Y.H. and T.J. Jackson, *Working Group report on Soil Moisture*, in *Passive Microwave Remote Sensing of Land-Atmosphere Interactions*, B.J. Choudhury, et al., Editors. 1995, VSP. p. 661-667.

Kerr, Y.H. and J.P. Wigneron, *Vegetation models and observations : A review*, in *Passive Microwave Remote Sensing of Land-Atmosphere Interactions*, B.J. Choudhury, et al., Editors. 1995, VSP, The Netherlands. p. 317-344.

Camps, A., et al., *Polarimetric radiometry of rain events: theoretical prediction and experimental results*, in *Microwave Radiometry and Remote Sensing of the Earth's Surface and the Atmosphere*, P. Pampaloni and S. Paloscia, Editors. 2000, VSP: Zeist, The Netherlands. p. 325-335.

Kerr, Y.H., et al., *The soil moisture and ocean salinity (smos) mission An overview*, P.P.S. Paloscia, Editor. 2000, VSP. p. 467-475.

Lagerloef, G., *Satellite remote sensing: salinity measurements*, in *Encyclopedia of Ocean Sciences*. 2000, Academic Press.

Lagerloef, G.S.E., *Recent progress toward satellite measurements of the global sea surface salinity field*, in *Satellites, Oceanography and Society*, D. Halpern, Editor. 2000, Elsevier Oceanography Series. p. 367.

Torres, F., et al., *Calibration methods in large interferometric radiometers devoted to Earth observation*, in *Microwave Radiometry and Remote Sensing of the Earth's Surface and the Atmosphere*, P. Pampaloni and S. Paloscia, Editors. 2000, VSP: Zeist, The Netherlands. p. 459-564.

Waldteufel, P., et al., *Field of view characteristics of a 2-D interferometric antenna, as illustrated by the MIRAS/SMOS L-band concept*, S.P. P. Pampaloni, Editor. 2000, VSP. p. 477-483.

Wigneron, J.P., et al., *Retrieval capabilities of L-Band 2-D interferometric radiometry over land surfaces (SMOS Mission)*, P.P.a.S. Paloscia, Editor. 2000, VSP: Netherlands. p. 485-492.

Font, J., et al., *SMOS: A satellite mission to measure ocean surface salinity*, in *Atmospheric Propagation, Adaptive Systems, and Laser Radar Technology for Remote Sensing* ,, J.D. Goglewski, et al., Editors. 2001, SPIE. p. 207-214.



Kerr, Y.H., *Microondas pasivas*, in *Teledeteccion*, S. J.A., Editor. 2001, Servicio de Publicaciones, Universidad de Valencia: Valencia (Sp). p. 199-239.

Lagerloef, G. and T. Delcroix, *Sea surface salinity; a regional case study for the tropical Pacific*, in *Observing the Oceans in the 21st Century; a strategy for global observations.*, C.K.a.N. Smith, Editor. 2001, GODAE Project Office, Bureau of Meteorology, Melbourne, Australia. p. 604.

Lagerloef, G.S.E., *Satellite Measurements of Salinity*, in *Encyclopedia of Ocean Sciences*, S.T. J. Steele, and K. Turekian, Editor. 2001, Academic Press, London. p. 2511-2516.

Camps, A. and C.T. Swift, *New Techniques in Microwave Radiometry for Earth Remote Sensing: Principles and Applications*, in *The Review of Radio Science 1999-2002.*, W.R. Stone, Editor. 2002, J. Wiley & Sons Inc.: Somerset, NJ, USA. p. 499-518.

Johannessen, J., et al., *Observing the Ocean from Space: Emerging capabilities in Europe*, in *Observing the Oceans in the 21st Century*, C.J.K.a.N.R. Smith, Editor. 2002, GODAE Project Office and Bureau of Meteorology: Melbourne, AUS. p. 198-208.

Wursteisen, P. and P. Fletcher, eds. *Proceedings of the First Results Workshop on EuroSTARRS, WISE, LOSAC*. ESA SP-. Vol. 525. 2003, European Space Agency.

Camps, A., ed. *IEEE Geoscience and Remote Sensing Newsletter*. T. Elfouhaily obituary. Vol. 141, December 2006. 2006.

de Rosnay, P., et al., *Parameterizations of the effective temperature for L-band radiometry. Inter-comparison and long term validation with SMOSREX field experiment.*, in *Thermal Microwave Radiation: Application for Remote sensing*, C. Mätzler, et al., Editors. 2006, IET Electromagnetic Waves series 52: London, UK. p. 312-324.

Wigneron, J.P. and B. Hornbuckle, *Modelling the effect of vegetation structure: evaluating the sensitivity of the vegetation model parameters to the canopy geometry and to the configuration parameters (frequency, polarisation and incidence angle)*, in *Thermal Microwave Radiation: Application for Remote sensing*, C. Mätzler, et al., Editors. 2006, IET Electromagnetic Waves series 52: London, UK. p. 324-334.

Wigneron, J.P., et al., *Modelling the soil microwave emission*, in *Thermal Microwave Radiation: Application for Remote sensing*, C. Mätzler, et al., Editors. 2006: London, UK. p. 276-287.

Wigneron, J.-P., et al., *L-MEB: A simple model at L-band for the continental areas - Application to the simulation of a half-degree resolution and global scale data set*, in *Thermal Microwave Radiation: Application for Remote sensing*, C. Mätzler, et al., Editors. 2006, IEE Electromagnetic Waves series 52: London, UK. p. 362-371.

Ballabrera-Poy, J., R. Murtugudde, and J. Font, *Salinity*, in *Encyclopedia of Global Warming and Climate Change*, S.G. Philander, Editor. 2008, Sage Publications, Inc.

Font, J., A. Camps, and J. Ballabrera-Poy, *Microwave aperture synthesis radiometry: Setting the path for operational sea salinity measurement from space*, in *Remote sensing of European seas V*. Barale and M. Gade, Editors. 2008, Springer-Verlag. p. 223-238.



Font, J. and A. Camps, *SMOS: La medición de salinidad desde el espacio*, in *Teledetección de los océanos: Fundamentos y aplicaciones*, C. García-Soto, Editor. 2009, Editorial Tébar: Madrid. p. in press.

Conference proceeding

1988-1995



Kerr, Y.H. and E.G. Njoku. *Monitoring Seasonal variations of soil moisture and vegetation cover using satellite microwave radiometry*. in *4th Coll. Int. "Les signatures spectrales en télédétection spatiale"*. 1988. Aussois, France.

Kerr, Y.H. and E.G. Njoku. *Study of african arid and semi-arid regions using SMMR data*. in *Land Processes Site Review*. 1988. JPL, Pasadena, USA.

Kerr, Y.H. *Modélisation du transfert radiatif à la surface terrestre en micro-ondes passives : application à SMMR*. 1990. GSTS, Strasbourg, France.

Thibaut, P. and Y.H. Kerr. *Application of aperture synthesis in passive microwave remote sensing*. 1990. Hyannis, Massachusetts, USA.

Thibaut, P., et al. *Generation of a high resolution microwave brightness. Temperature map for assessing aperture synthesis radiometer performances*. in *IGARSS'90*. 1990. Maryland, USA.

Kerr, Y.H. *The MIMR : Applications to land surface parameter retrieval*. in *IGARSS'91*. 1991. ESPOO, Finlande.

Kerr, Y.H. and E.G. Njoku. *On the use of passive microwaves at 37 GHz (Invited)*. in *5th Coll. Int. "Mesures Physiques et signatures en télédétection"*. 1991. Courchevel, France.

Calvet, J.-C., et al. *Use of passive microwaves over the Amazon Forest*. in *IGARSS'92*. 1992. Huston, Texas, USA.

Laguerre, L., et al. *Modeling soil microwave emission through the continuous approach - Experimental validation*. in *PIERS'93*. 1993.

Qi, J., et al. *Retrieval of Surface Physical Parameters with AVHRR and SMMR over Africa*. in *IEEE*. 1993.

Chanzy, A., et al. *Surface soil moisture maps using airborne PBMR and Portos measurements in Hapex-Sahel*. in *EGS Workshop, Instrumental and Methodical Problems of Land Surface Flux Measurements*. 1994. Grenoble, France.

Laguerre, L., et al. *Influence of Surface Roughness on the Microwave Emission from Bare Soils for Surface Soil Moisture Retrieval Algorithms*. in *PIERS'94*. 1994. Noordwijk, Netherlands.

Laguerre, L., et al. *Physical modeling of microwave emission from bare soils. Intercomparison of models and ground data*. in *6th International Symposium "Physical Measurements and Signatures in Remote Sensing"*. 1994. Val d'Isère, France.

Schmugge, T.J. and Y.H. Kerr. *Microwave Radiometer observations in Hapex Sahel*. in *6th International symposium on physical measurements and signatures in remote sensing*. 1994. Val d'Isère France.

Wigneron, J.P., et al. *Vegetation models used to retrieve geophysical parameters from passive microwave measurements (Invited)*. in *6th International Symposium "Physical Measurements and Signatures in Remote Sensing"*. 1994. Val d'Isère, France.



Camps, A., et al. *Visibility inversion algorithms over hexagonal sampling grids*. in *Consultative Meeting on Soil Moisture and Ocean Salinity (SMOS) Measurement Requirements and Radiometer Techniques*. 1995. Noordwijk (The Netherlands): ESA.

Goutoule, J.M. *MIRAS spaceborne instrument and its airborne demonstrator*. in *Proceedings of the Consultative meeting on Soil Moisture and Ocean Salinity (SMOS)*. 1995. ESTEC, Noordwijk, The Netherlands: ESA.

Kerr, Y.H., et al. *Proceedings of the Consultative Meeting on Soil Moisture and Ocean Salinity Measurement Requirements and Radiometer Techniques (SMOS)*. in *Consultative Meeting on Soil Moisture and Ocean Salinity Measurement Requirements and Radiometer Techniques (SMOS)*. 1995. Noordwijk: ESA-ESTEC.

Laguerre, L., et al. *Roughness influence on the passive microwave response of bare soils*. in *IGARSS'95*. 1995. Firenze, Italie.

Wigneron, J.P., et al. *Simultaneous Retrievals of Soil Moisture and Vegetation Biomass from Multi-configuration Passive Microwave Measurements*. in *IGARSS'95*. 1995. Firenze, Italie.

Wigneron, J.-P., et al. *Simultaneous retrievals of soil moisture and vegetation biomass from multi-configuration passive microwave measurements*. in *Geoscience and Remote Sensing Symposium, 1995. IGARSS '95. 'Quantitative Remote Sensing for Science and Applications', International*. 1995.

1996

Martin-Neira, M., et al. *Theoretical research on new concepts for the remote sensing of hydrometeors*. in *1996 International Geoscience and Remote Sensing Symposium (IGARSS 96) - Remote Sensing for a Sustainable Future*. 1996. Lincoln, Ne.

Martin-Neira, M., et al. *Integration of MIRAS breadboard and future activities*. in *1996 International Geoscience and Remote Sensing Symposium (IGARSS 96) - Remote Sensing for a Sustainable Future*. 1996. Lincoln, Ne.

1997

Camps, A., et al. *Evaluation of MIRAS space borne instrument performance: Snapshot radiometric accuracy and its improvement by means of pixel averaging*. in *Conference on Sensors, Systems, and Next-Generation Satellites*. 1997. London, England.

Chanzy, A., et al. *Soil moisture estimation under sparse vegetation using microwave radiometry at C-band*. in *Geoscience and Remote Sensing, 1997. IGARSS '97. 'Remote Sensing - A Scientific Vision for Sustainable Development'*., 1997 IEEE International. 1997.

Kerr, Y.H., et al. *Synergistic use of passive and active microwaves: Examples over semi arid and periarctic regions*. in *Physical measurements and Signatures in remote sensing*. 1997. Courchevel, France: Balkema.



Wigneron, J.P., et al. *Monitoring vegetation and soil from passive and active microwave remote sensing data: a model analysis*. in *Physical measurements and Signatures in remote sensing*. 1997. Courchevel, France: Balkema.

1998

Camps, A., et al. *Modeling the radiometric signatures of the earth from space: a tool to study the performance of new radiometers*. in *Conference on Sensors, Systems, and Next-Generation Satellites II*. 1998. Barcelona, Spain.

Cardellach, E., et al. *The use of global navigation satellite systems for the atmospheric calibration of Radar Altimeter*. in *Conference on Satellite Remote Sensing of Clouds and the Atmosphere III*. 1998. Barcelona, Spain.

Corbella, I., et al. *A new calibration technique for interferometric radiometers*. in *Conference on Sensors, Systems, and Next-Generation Satellites II*. 1998. Barcelona, Spain.

Harvey, A.R., et al. *Millimetre-wave aperture synthesis for remote sensing of the Earth*. in *Conference on Sensors, Systems, and Next-Generation Satellites II*. 1998. Barcelona, Spain.

1999

Boutin, J., et al. *SSS retrieval from SMOS measurements: issues related to surface conditions*. in *Oceanobs'99*. 1999. Saint Raphael, France.

Calvet, J.-C., et al. *Retrieval capabilities of microwave radiometry over semi-arid land surfaces: the ramses-smos mission*. in *MEDESERT-99, the International Conference on Synergies in Desertification Processes in the Mediterranean Region - Mechanisms and Early Warning Indicators*. 1999. Perpignan, France.

Font, J., et al. *SMOS mission: observing ocean surface salinity from space*. in *OCEANOBS99*. 1999. St Raphael, France.

Johannessen, J., et al. *Emerging new earth observation capabilities in the context of ocean observing system for climate*. in *OCEANOBS '99*. 1999. St Raphael, France.

Kerr, Y.H., et al. *The Soil Moisture and Ocean Salinity Mission (SMOS): an overview*. in *IUGG'99*. 1999. Birmingham, UK.

Kerr, Y.H., et al. *La mission "soil moisture and ocean salinity" (SMOS)*. in *AMA 1999*. 1999. Toulouse, France: Météo-France.

Kerr, Y.H., et al. *Microwave Radiometry of Soil Characteristics*. in *URSI XXVI th General Assembly Session F-7*. 1999. Toronto, Canada.

Kerr, Y.H., et al. *The soil moisture and ocean salinity (smos) mission An overview*. in *Murad '99*. 1999. Firenze, Italy.

Lagerloef, G. and T. Delcroix. *Sea surface salinity. A regional case study for the tropical Pacific*. in *Oceanobs'99*. 1999. St. Raphaël.



Waldteufel, P., et al. *Field of view characteristics of a microwave 2 d interferometric antenna, as illustrated by the miras concept.* in *MuRad 99*. 1999. Firenze Italy.

Wigneron, J.P., et al. *Retrieval capabilities of the microwave interferometer miras over the land surface (ramses-smos mission).* in *MuRad'99*. 1999. Firenze, Italy.

2000

Borges, A., et al. *The MIRAS Demonstrator Pilot Project.* in *IGARSS'00*. 2000. Honolulu, Hawaii (USA): IEEE.

Camps, A., et al. *The WISE 2000 Campaign: Sea Surface Salinity and Wind Retrievals from L-Band Radiometry.* in *EOS/SPIE Conference on Remote Sensing*. 2000. Barcelona: EUROPTO Series.

Font, J., et al. *SMOS: A satellite mission to measure ocean surface salinity.* in *Conference on Atmospheric Propagation, Adaptive Systems, and Laser Radar Technology for Remote Sensing*. 2000. Barcelona, Spain.

Kerr, Y., et al. *Next Generation Radiometers: SMOS A dual pol L-band 2D Aperture Synthesis Radiometer.* in *2000 IEEE Aerospace conference*. 2000. Big Sky, Montana,.

Kerr, Y., et al. *New radiometers: SMOS a dual pol L-band 2D aperture synthesis radiometer.* in *2000 IEEE Aerospace Conference*. 2000. Big Sky, Mt.

Kerr, Y.H., et al. *The Soil Moisture and Ocean Salinity Mission: The Science Objectives of an L Band 2-D Interferometer.* in *IGARSS'00*. 2000. Honolulu USA.

Kerr, Y.H., et al. *The Soil Moisture and Ocean Salinity Mission: The science objectives of an L-band 2D interferometer.* in *IEEE International Geoscience and Remote Sensing Symposium IGARSS2000*. 2000. Hawaii, USA: IEEE.

Kerr, Y.H., et al. *Retrieving Soil moisture from Space: new approaches and new means.* in *AP 2000, millenium conference on Antennas and Propagation*. 2000. DAVOS, CH: ESA.

Kerr, Y.H., et al. *Soil moisture and vegetation Biomass retrievals using L band, dual polarised and multi angular radiometric data in preparation of the SMOS mission.* in *Igarss'00*. 2000. Honolulu USA.

Le Vine, D.M., et al. *ESTAR Measurements during SGP-99.* in *IGARS'00*. 2000. Honolulu, Hawaii (USA): IEEE.

Martin-Neira, M., et al. *Ocean Salinity Observations with SMOS Mission.* in *IEEE International Geoscience and Remote Sensing Symposium IGARSS 2000*. 2000. Hawaii.

Peichl, M., M. Greiner, and H. Suess. *DLR Activities on Aperture Synthesis Radiometry.* in *IGARSS'00*. 2000. Honolulu, Hawaii (USA): IEEE.



Ruf, C.F. *Statistical Analysis of a Lower Bound on Microwave Radiometer Brightness Temperatures from Space*. in *IGARSS'00*. 2000. Honolulu (Hawai-USA): IEEE.

Torres, F., et al. *Receiver specifications of the MIRAS demonstrator*. in *Conference on Sensors, Systems, and Next-Generation Satellites IV*. 2000. Barcelona, Spain.

Wilson, W.J., S. Yueh, and F.K. Li. *Passive/Active L/S-band (PALS) precision aircraft instrument for ocean salinity measurements*. in *Third SSWG Meeting*. 2000. San Antonio, Texas, USA.

2001

Anterrieu, E. *Apodization functions for SMOS (Keynote)*. in *3rd SMOS Workshop*. 2001. DLR, Wessling (D).

Anterrieu, E. and P. Waldteufel. *Apodization functions for 2D hexagonally sampled interferometric radiometers*. in *ISPRS 8th Symposium on physical measurements and signatures in remote sensing*. 2001. Aussois France: CNES, ISPRS.

Anterrieu, E., P. Waldteufel, and G. Caudal. *Averaging properties of systematic errors undergone in synthetic aperture 2D radiometry*. in *MuRad: Specialists Conference on Microwave Remote Sensing*. 2001. Boulder, Co, USA.

Bayle, F., et al. *Retrieval of Soil Moisture images from MIRAS 2D interferometer demonstrator during Avignon99 field campaign*. in *IGARSS01*. 2001. Sydney (Aus): IEEE.

Boulet, G., et al. *Deriving catchment scale water and energy balance parameters using Kalman filtering*. in *Workshop on Data assimilation in Hydrology*. 2001. Wageningen (NL).

Boulet, G., et al. *Water and energy balance at local and regional scales: a methodology designed for the SMOS program*. in *ISPRS 8th Symposium on physical measurements and signatures in remote sensing*. 2001. Aussois, France: CNES, ISPRS.

Braud, I., et al. *Non dimensional forms of the infiltration equation : application to the estimation of the unsaturated soil hydraulic properties*. in *Int. Symp. " Soil structure water and solutes transport " dedicated to M. Rieu*. 2001. Bondy (F).

Calvet, J.-C., et al. *Root-zone Soil Moisture Analysis Using Microwave Radiometry*. in *IGARSS'01*. 2001. Sydney Australia: IEEE.

Camps, A., et al. *L-band sea surface emissivity: Preliminary results of the WISE-2000 campaign and its application to salinity retrieval in the SMOS mission*. in *Microrad'01*. 2001. Boulder (Colorado).

Camps, A., et al. *Sea Surface Emissivity Observations at L-band:First Preliminary Results of the Wind and Salinity Experiment WISE-2000*. in *IGARSS2001*. 2001. SYDNEY (Australia): IEEE.

Camps, A., et al. *Emissivity of the sea surface roughened by rain: Simulation results*. in *IEEE International Geoscience and Remote Sensing Symposium*. 2001. Sydney, Australia.



- de Rosnay, P. and T.J. Schmugge. *Sensitivity of the microwave emission to the vertical soil discretization. Application to the large scale brightness temperature modeling of the surface.* in *4th int. scientific conf. on the Global Energy and Water cycle (GEWEX)*. 2001. Paris (France).
- de Rosnay, P. and T.J. Schmugge. *Sensitivity of the microwave emission to the vertical soil discretization.* in *EGS XXVI th General Assembly*. 2001. Nice France.
- Derive, G. and S. Galle. *A simple method to estimate evapotranspiration in semi-arid area using remote sensing. A case study in Sahel (Niger).* in *Fifth Int. Workshop "Application of Remote sensing in hydrology*. 2001. Montpellier (F).
- Derive, G. and G. S. *A simple method to estimate evapotranspiration in semi-arid area using remote sensing. Application to a sahelian watershed in Niger (CATCH/HAPEX-Sahel).* in *4th Int. Scientific Conf. On the Global Energy and Water Cycle (GEWEX)*. 2001. Paris (F).
- Font, J. and S.T. SMOS. *Sea surface salinity measured by the smos satellite mission.* in *EGS XXV Gearnal assembly*. 2001. Nice, France.
- Galle, S., et al. *Estimation of soil hydrodynamic properties of the Donga watershed (CATCH-Bénin).* in *4th Int. Scientific Conf. On the Global Energy and Water Cycle (GEWEX)*. 2001. Paris (F).
- Kerr, Y.H., et al. *The smos mission: overall description of the mission.* in *EGS XXVth General assembly*. 2001. Nice, France.
- Kerr, Y.H., et al. *The objectives and rationale of the Soil Moisture and Ocean Salinity (SMOS) mission.* in *Geoscience and Remote Sensing Symposium, 2001. IGARSS '01. IEEE 2001 International*. 2001.
- Kerr, Y.H., et al. *Monitoring soil moisture from space: the SMOS mission.* in *GEWEX*. 2001. PARIS.
- Kerr, Y.H., et al. *The soil moisture and ocean salinity mission.* in *ISPRS 8th Symposium on physical measurements and signatures in remote sensing*. 2001. Aussois France: CNES, ISPRS.
- Kerr, Y.H., et al. *The objectives and rationale of the Soil Moisture and Ocean Salinity (SMOS) Mission.* in *IGARSS'01*. 2001. Sidney Australia.
- Kerr, Y.H., et al. *Soil moisture retrieval and applications from L band Radiometry (SMOS).* in *IGARSS'01*. 2001. Sidney Australia: IEEE.
- Kerr, Y.H., et al. *Soil moisture monitoring with SMOS.* in *SPIE - RS*. 2001. Toulouse France.
- Kerr, Y.H., et al. *The SMOS mission: surface soil moisture retrieval.* in *ISPRS 8th Symposium on physical measurements and signatures in remote sensing*. 2001. Aussois France: CNES, ISPRS.



Lopez-Sanchez, J.M., et al. *Polarimetric emissivity of vegetation-covered soils: Simulation results*. in *IEEE International Geoscience and Remote Sensing Symposium*. 2001. Sydney, Australia.

Pellenq, J., et al. *A 3-dimensional water and energy balance model designed for the SMOS program*. in *IGARSS'01*. 2001. Sidney Australia: IEEE.

Pellenq, J., et al. *Etude d'un schema de desagregation de l'humidite du sol de l'echelle du bassin versant a l'echelle locale*. in *Atelier de modélisation de l'atmosphere*. 2001.

Pellenq, J., et al. *Vers une définition du couplage hydrologie-météorologie : application au couplage ISBA-TOPMODEL*. in *Ateliers de Modélisation de l'Atmosphère*. 2001. Toulouse (F).

Pellenq, J., et al. *Water and energy balance at local and regional scale: proposal of a common tool designed for the SMOS program*. in *ISPRS 8th Symposium on physical measurements and signatures in remote sensing*. 2001: CNES, ISPRS.

Rotboll, J., S.S. Sobjerg, and N. Skou. *L-Band Polarimetric Correlation Radiometer with Subharmonic Sampling*. in *IGARSS'01*. 2001. Sydney (Aus): IEEE.

Simmonds, L., et al. *Monitoring soil moisture and vegetation biomass from passive microwave observations (SMOS mission)*. in *EGS XXVth General assembly*. 2001. Nice France.

Waldteufel, P., J. Boutin, and Y. Kerr. *Selecting an optimal configuration for the SMOS mission*. in *MuRad 2001*. 2001. Boulder, CO, USA.

2002

Anterrieu, E. *Stabilized image reconstruction algorithm for synthetic aperture imaging radiometers*. in *IGARSS02*. 2002. Toronto Ca.

Anterrieu, E., P. Waldteufel, and G. Caudal. *Propagation of instrument errors in interferometric radiometry*. in *IGARSS02*. 2002. Toronto Ca.

Antolín, C., et al. *The EUROSTARRS-2001 Campaign over Natural Vegetation and Mediterranean Ecosystems in Support of the Estimation of Soil Moisture from Space*. in *International Symposium on Sustainable Use and Management of Soils in Arid and Semiarid Regions (SUMASS2002)*. 2002. Universidad Politécnica de Cartagena (Sp).

Aubert, D., et al. *Assimilation séquentielle de données dans le modèle d'interface sol-végétation-atmosphère ISBA à l'aide d'un filtre de Kalman étendu*. in *Atelier de Modélisation du CNRM*. 2002. Toulouse France.

Berger, M., et al. *The EuroSTARRS campaign in support of the Soil Moisture and Ocean Salinity Mission*. in *IGARSS02*. 2002. Toronto Ca.

Blanch, S. and A. Aguiasca. *Dielectric permittivity measurements of sea water at L-band*. in *First Results Workshop, EuroSTARRS, WISE, LOSAC Campaigns*. 2002. CESBIO, Toulouse: ESA.



Boutin, J., et al. *Errors on Surface Salinity Retrieved from SMOS measurements over Global Ocean*. in *IGARSS02*. 2002. Toronto, Ca.

Boutin, J., et al. *Errors of surface salinity retrieved from smos measurements over global ocean*. in *IGARSS02*. 2002. Toronto Ca.

Calvet, J.-C., et al. *The EUROSTARSS experiment over land surfaces (SMOS Mission): first results*. in *IGARSS02*. 2002. Toronto Ca.

Camps, A., et al. *Wind Effects on the Sea Surface Emissivity at L-band: Preliminary Results of WISE 2000 and 2001*. in *Union Radio Science International meeting, Commission F*. 2002. Garmisch-Paternkirchen.

Camps, A., et al. *Sea Surface Salinity Retrieval using multi-angular L-band radiometry: Numerical Study Using the SMOS End-to-end Performance Simulator*. in *IGARSS02*. 2002. Toronto, Ca.

Camps, A., et al. *WISE 2000 and 2001: Campaign description and executive summary*. in *First Results Workshop, EuroSTARRS, WISE, LOSAC Campaigns*. 2002. CESBIO, Toulouse: ESA.

Camps, A., et al. *Sea Surface Radiometric Observations At L-Band: Wind Speed Sensitivity Derived From WISE 2000 And 2001*. in *27th triennial General Assembly of the International Union of Radio Science*. 2002. Maastricht.

Camps, A., et al. *L-band Sea Surface Emissivity Radiometric Observations under High Winds: Preliminary Results of the Wind and Salinity Experiment WISE-2001*. in *IEEE International Geosciences and Remote Sensing Symposium IGARSS2002*. 2002. Toronto.

Camps, A., et al. *Sea surface salinity retrieval in the SMOS configuration: Simulation performance study*. in *1st Results Workshop on EuroSTARRS, WISE, LOSAC Campaigns*. 2002. Toulouse, France.

Camps, A., et al. *Sea Surface Retrieval in the SMOS Configuration: Simulation Performance Study*. in *First Results Workshop, EuroSTARRS, WISE, LOSAC Campaigns*. 2002. CESBIO, Toulouse: ESA.

Camps, A., et al. *Sea surface emissivity at L-band: derived dependence with incidence and azimuth angles*. in *First Results Workshop, EuroSTARRS, WISE, LOSAC Campaigns*. 2002. CESBIO, Toulouse: ESA.

Camps, A., M. Zapata, and I. Corbella. *SMOS Performance Simulation Analysis*. in *IGARSS02*. 2002. Toronto, Ca.

Caselles, V., et al. *Sea Surface Temperature assessment during the Wind and Salinity Experiment (WISE)*. in *Recent Advances in Quantitative Remote Sensing*. 2002. València: Universitat de València.

Demarty, J., et al. *Assimilation variationnelle et multispectrale dans un modèle TSVa par étalonnage stochastique*. in *Atelier de Modélisation du CNRM*. 2002. Toulouse France.



- Dinnat, E., et al. *Sea state influence on L-band emissivity in various fetch conditions*. in *2002 IEEE International Geoscience and Remote Sensing Symposium*. 2002. Toronto (Canada).
- Emelianov, M.V., et al. *Sea surface fields at Casablanca site (NW Mediterranean) during the EuroSTARRS campaign*. in *First Results Workshop, EuroSTARRS, WISE, LOSAC Campaigns*. 2002. CESBIO, Toulouse: ESA.
- Etcheto, J., et al. *L-band sea surface emissivity: measurements versus model comparison*. in *2002 International Geoscience and Remote Sensing Symposium*. 2002. Toronto (Canada).
- Etcheto, J., et al. *Sea Surface Salinity Remote Sensing by SMOS: Challenges and Capabilities*. in *International Symposium "En Route to GODAE"*. 2002. Biarritz, France.
- Etcheto, J., et al. *Comparison of EuroSTARRS and WISE measurements with sea surface emissivity models*. in *First Results Workshop, EuroSTARRS, WISE, LOSAC Campaigns*. 2002. CESBIO, Toulouse: ESA.
- Ferrer, F., et al. *Spatial distribution of soil moisture content and its relationship to other surface parameters at the Valencia site*. in *1st Results Workshop on EuroSTARRS, WISE, LOSAC Campaigns*. 2002. Toulouse, France.
- Ferrer, F., et al. *EuroSTARRS-2001. Investigations on Soil Moisture Variation and Factors Influencing. Field Data Collection in the Valencia Site*. in *International Symposium on Sustainable Use and Management of Soils in Arid and Semiarid Regions (SUMASS2002)*. 2002. Universidad Politécnica de Cartagena (Sp).
- Floury, N., M.R. Drinkwater, and O. Witasse. *L-band brightness temperature of ice sheets in Antarctica: Emission modelling, ionospheric contribution and temporal stability*. in *IGARSS'02*. 2002. Toronto, Canada.
- Font, J., et al. *Oceanographic conditions during the Wind and Salinity Experiment 2000 and 2001, NW Mediterranean Sea*. in *First Results Workshop, EuroSTARRS, WISE, LOSAC Campaigns*. 2002. CESBIO, Toulouse: ESA.
- Font, J., et al. *Sea Surface Salinity mapping with SMOS space mission*. in *3rd EuroGOOS conference*. 2002. Biarritz, France.
- Font, J., et al. *Open issues for the Soil Moisture and Ocean Salinity (SMOS) satellite mission salinity retrieval*. in *First Results Workshop, EuroSTARRS, WISE, LOSAC Campaigns*. 2002. CESBIO, Toulouse: ESA.
- Gabarró, C., et al. *Retrieved Sea Surface Salinity and Wind Speed from L-Band measurements for WISE and EuroSTARRS campaigns*. in *First Results Workshop, EuroSTARRS, WISE, LOSAC Campaigns*. 2002. CESBIO, Toulouse: ESA.
- Gabarró, C., et al. *Retrieving Sea Surface Salinity and wind from a tower-based L-band radiometer in the NW Mediterranean*. in *Recent Advances in Quantitative Remote Sensing*. 2002. València: Universitat de València.



Guijarro, L., et al. *Land Surface monitoring using a combination of passive and active microwave satellite sensors*. in *1st International Symposium Recent Advances in Quantitative Remote Sensing*. 2002. Torrent (Valencia(Sp): Unoversitat de Valencia.

Lagerloef, G., J. Font, and C. Koblinsky. *Plans and progress for salinity mapping satellite missions to be launched in the next 4-5 years - SMOS and Aquarius*. in *En route to GODAE*. 2002. Biarritz, France.

Lopez-Baeza, E., et al. *The EuroSTARRS-2001 Aircraft Campaign of the European Space Agency in Support of the SMOS Mission*. in *III Congress of the Spanish Association for Climatology (AEC)*. 2002. Universidad de las Islas Baleares, Palma de Mallorca (Sp).

López-Baeza, E., et al. *EuroSTARRS: Campaign description*. in *First Results Workshop, EuroSTARRS, WISE, LOSAC Campaigns*. 2002. CESBIO, Toulouse: ESA.

Lopez-Baeza, E., et al. *The EuroSTARSS-2001 Campaign Over Land Surfaces in Support of the SMOS Mission*. in *International Symposium on Sustainable Use and Management of Soils in Arid and Semiarid Regions (SUMASS2002)*. 2002. Universidad Politécnica de Cartagena (Sp).

Lopez-Baeza, E., et al. *EuroSTARRS ground sampling design at the Nezer site, Agre forest and Valencia site*. in *1st Results Workshop on EuroSTARRS, WISE, LOSAC Campaigns*. 2002. Toulouse, France.

Martínez-Vázquez, A., et al. *Full Polarimetric Emissivity of Vegetation-Covered Soils:Vegetation Structure Effects*. in *IGARSS02*. 2002. Toronto, Ca.

Miller, J., et al. *Remote sensing of sea surface salinity - STARRS and the EuroSTARRS campaign*. in *European Geophysical Society EGS XXVI General Assembly*. 2002. Nice, France.

Miranda, J., et al. *Sea state and rain effects on sea surface emissivity at L-band*. in *1st Results Workshop on EuroSTARRS, WISE, LOSAC Campaigns*. 2002. Toulouse, France.

Miranda, J., et al. *Sea Surface Emissivity at L-Band: Swell Effects*. in *IGARSS02*. 2002. Toronto, Ca.

Niclos, R., V. Caselles, and E.S.A. Esa. *Sea surface temperature estimation using infrared radiometry*. in *1st Results Workshop on EuroSTARRS, WISE, LOSAC Campaigns*. 2002. Toulouse, France.

Ottlé, C. and D. Aubert. *Assimilation séquentielle d'observations de surface dans le modèle ISBA*. in *Atelier de Modélisation du CNRM*. 2002. Toulouse France.

Pellarin, T., J.-C. Calvet, and a.t.E.S.M. TEAM. *Soil moisture retrieval by SMOS; A global feasibility study*. in *EGS XXVII General Assembly*. 2002. Nice, France.

Pellarin, T., et al. *Le potentiel de SMOS pour le suivi de l'humidité des sols*. in *Atelierde Modélisation de l'atmosphère*. 2002. Toulouse France.

Pellarin, T., et al. *Soil moisture retrieval by SMOS: a global feasibility study*. in *Geoscience and Remote Sensing Symposium, 2002. IGARSS '02. 2002 IEEE International*. 2002.



Picard, B., et al. *Improved windowing functions for Y-shape synthetic aperture imaging radiometers.* in *IGARSS02*. 2002. Toronto Ca.

Ribo, S., M. Martin-Neira, and L. Sempere. *Calibration of the impulsional response of a small MIRAS.* in *1st Results Workshop on EuroSTARRS, WISE, LOSAC Campaigns*. 2002. Toulouse, France: ESA.

Ruffini, G., et al. *Oceanpal: an instrument for remote sensing of the ocean and other water surfaces using GNSS reflections.* in *3rd International Conference on Building the European Capacity for Operational Oceanography*. 2002. Athens, GREECE.

Ruiz, S., D. Gomis, and J. Font. *3D, EOF-based spatial analysis of gyroscope observations in the North Atlantic ocean.* in *3rd International Conference on Building the European Capacity for Operational Oceanography*. 2002. Athens, GREECE.

Saleh, K., et al. *Microwave Radiometry for Soil Moisture Monitoring: Preliminary Results from the EuroSTARRS-2001 Campaign.* in *III Congress of the Spanish Association for Climatology (AEC)*. 2002. Universidad de las Islas Baleares, Palma de Mallorca (Sp).

Saleh, K., et al. *STARRS data processing and analysis of L-band brightness temperature over land.* in *1st Results Workshop on EuroSTARRS, WISE, LOSAC Campaigns*. 2002. Toulouse, France.

Saleh, K., et al. *Modelling of L-band brightness temperature over land from STARRS data.* in *1st Results Workshop on EuroSTARRS, WISE, LOSAC Campaigns*. 2002. Toulouse, France.

Saleh, K., et al. *The EuroSTARSS airborne campaign over land surfaces (SMOS mission): first results.* in *1st International Symposium on Recent Advances in Quantitative Remote Sensing*. 2002. Valencia, SP: Universitat de Valencia.

Søbjærg, S.S., J. Rotbøll, and N. Skou. *Measurement of Wind Signatures on the Sea Surface using an L-band Polarimetric Radiometer.* in *IGARSS02*. 2002. Toronto, Ca.

Soebjaerg, S.S., J. Rotboell, and N. Skou. *The L-band Ocean Salinity Airborne Campaign, LOSAC.* in *First Results Workshop, EuroSTARRS, WISE, LOSAC Campaigns*. 2002. CESBIO, Toulouse: ESA.

Soebjaerg, S.S., J. Rotboell, and N. Skou. *Wind effects and angular dependence at L-band polarimetric data: First results of LOSAC.* in *First Results Workshop, EuroSTARRS, WISE, LOSAC Campaigns*. 2002. CESBIO, Toulouse: ESA.

Vall-llossera, M., et al. *Sea Surface Emissivity Modeling at L-Band: An Inter-comparion Study.* in *First Results Workshop, EuroSTARRS, WISE, LOSAC Campaigns*. 2002. CESBIO, Toulouse: ESA.

Van de Griend, A.A., J.-P. Wigneron, and P. Waldteufel. *Parameter retrieval of Inhomogeneous Surfaces using 1.4 GHz Multi-Angle Brightness Temperature Observations.* in *IGARSS-02*. 2002. TORONTO, Canada.



Villarino, R., et al. *Sea foam and sea state effects on the instantaneous brightness temperatures at L-band.* in *1st Results Workshop on EuroSTARRS, WISE, LOSAC Campaigns.* 2002. Toulouse, France.

Waldteufel, P., Y. Kerr, and E. Anterrieu. *First attempts to use the SMOS simulator to estimate the effects of instrument errors in interferometric radiometry.* in *IGARSS'02.* 2002. Toronto (Can).

Wigneron, J.-P., et al. *The EUROSTARSS experiment over land surfaces (SMOS Mission): first results.* in *Recent Advances in Quantitative Remote Sensing.* 2002. Valencia, Spain.

Wigneron, J.-P., et al. *Eurostarss experiment over the land surfaces (SMOS mission): first results.* in *EGS XXVII General Assembly.* 2002. Nice, France.

Wigneron, J.-P., et al. *EUROSTARSS Experiment over the land surfaces (SMOS Mission): first results.* in *European Geophysical Society EGS XXVI General Assembly.* 2002. Nice, France.

Wigneron, J.-P., et al. *Monitoring land surface soil moisture from L-band microwave radiometry.* in *First International Symposium on "Recent Advances in Quantitative Remote Sensing".* 2002. Torrent, Spain: Universitat de Valencia.

Wigneron, J.-P., et al. *The EUROSTARSS Experiment over Land Surfaces (SMOS Mission): First Results.* in *Recent Advances in Quantitative Remote Sensing.* 2002. Torrente (Valencia) Spain.

Wursteisen, P., et al. *Overview of the Activities Performed During the EuroSTARRS-2001 Campaign.* in *Recent Advances in Quantitative Remote Sensing.* 2002. Torrente (Valencia) Spain.

2003

Anterrieu, E., S. Gratton, and B. Picard. *Self characterization of modelling parameters for Synthetic Aperture Imaging Radiometers.* in *IGARSS'03.* 2003. Toulouse France.

Berger, M., Y. Kerr, and J. Font. *ESA's activities towards retrieval concepts for the Soil Moisture and Ocean Salinity Mission (SMOS).* in *SPIE.* 2003. Barcelona Spain.

Boutin, J., et al. *Uncertainties on Salinity Retrieved from SMOS measurements over Global Ocean.* in *IGARSS'03.* 2003. Toulouse France.

Burke, E., et al. *The effects of subpixel heterogeneity on SMOS mission retrievals using NLDAS coupled with a microwave emission model (EAE03-A-05637).* in *EGS-AGU-EUG Joint Assembly.* 2003. Nice, France.

Calvet, J.-C., et al. *Assessing the assimilation of SMOS data by using field campaigns.* in *IGARSS'03.* 2003. Toulouse France.

Camps, A., et al. *The SMOS End-to-end Performance Simulator: Description and Scientific Applications.* in *IGARSS'03.* 2003. Toulouse France.



Camps, A., A. Sumpsi, and I.I. Ieee. *Three-antenna two-dimensional imaging correlation radiometer: Concept and preliminary results*. in *23rd International Geoscience and Remote Sensing Symposium (IGARSS 2003)*. 2003. Toulouse, France.

Colliander, A., et al. *Development and Characterization of Fully Polarimetric Noise Injection Radiometer for MIRAS*. in *IGARSS'03*. 2003. Toulouse France.

Contardo, S., et al. *Influence of geometric and radiative transfer effects on comparison of data acquired by the EuroSTARRS campaign with simulated data*. in *First Results Workshop on EuroSTARRS, WISE, LOSAC campaigns*. 2003.

de Rosnay, P., et al. *SMOSREX: Surface Monitoring Of the Soil Reservoir EXperiment. Presentation of the experiment and preliminary results*. in *Informal symposium on measuring soil characteristics with remote sensing methods*. 2003. Zürich (Suisse).

de Rosnay, P., et al. *Suivi de l'évolution de la végétation sur SMOSREX : biomasse, LAI et humidité*. in *Workshop PIRRENE;*. 2003. Toulouse (France),.

Dinnat, E., et al. *On the use of EuroSTARRS and WISE data for validating L-band emissivity models*. in *First Results Workshop on EuroSTARRS, WISE, LOSAC campaigns*. 2003.

Doiron, T.A. and J.R. Piepmeier. *Hybrid Synthetic/Real Aperture Antenna for High Resolution Microwave Imaging*. in *IGARSS'03*. 2003. Toulouse France.

Duffo, N., et al. *MIRAS Imaging Validation*. in *IGARSS'03*. 2003. Toulouse France.

Entekhabi, D., et al. *Synergy of The Hydrosphere State (HYDROS) and Soil Moisture and Ocean Salinity (SMOS) Missions For Global Mapping of Soil Moisture*. in *IGARSS'03*. 2003. Toulouse France.

Etcheto, J., et al. *Oceanographic conditions during Eurostarrs flights over Atlantic and Mediterranean transit*. in *First Results Workshop on EuroSTARRS, WISE, LOSAC campaigns*. 2003.

Etcheto, J., et al. *Recent L-band models validation using EuroSTARRS and WISE 2001 campaigns*. in *IGARSS'03*. 2003. Toulouse France.

Etcheto, J., et al. *Comparison of EUROSTARRS and WISE measurements with sea surface emissivity models*. in *First Results Workshop on EuroSTARRS, WISE, LOSAC campaigns*. 2003.

Font, J., et al. *Sea Surface Salinity mapping with SMOS space mission (EAE03-A-11271)*. in *EGS-AGU-EUG Joint Assembly*. 2003. Nice, France.

Font, J., et al. *The Determination of Surface Salinity with SMOS - Recent Results and Main Issues*. in *IGARSS'03*. 2003. Toulouse France.

Gabarró, C., et al. *Errors on the Retrieved Sea Surface Salinity from Microwave Radiometry due to Inaccuracies in the Ancillary Data*. in *IGARSS'03*. 2003. Toulouse France.



Greiner, M., M. Peichl, and H. Süß. *Advanced image reconstruction and array geometries in aperture synthesis radiometry*. in *IGARSS'03*. 2003. Toulouse France.

Guijarro, L., et al. *Land surface temperature and soil moisture retrieval using passive multiangular microwave measurements over Oklahoma and Illinois (EAE03-A-11754)*. in *EGS-AGU-EUG Joint Assembly*. 2003. Nice, France.

Hahne, A., et al. *Progress on the SMOS Project*. in *IGARSS'03*. 2003. Toulouse France.

Kerr, Y.H., et al. *The Soil Moisture and Ocean Salinity Mission*. in *EGS-AGU-EUG Joint Assembly*. 2003. Nice, France.

Kerr, Y.H., et al. *SMOS: Analysis of perturbing effects over land surfaces*. in *IGARSS'03*. 2003. Toulouse France: IEEE.

Kerr, Y.H., et al. *The Soil Moisture And Ocean Salinity Mission: General presentation*. in *IGARSS'03*. 2003. Toulouse France.

Labroue, S., et al. *Salinity retrieval from SMOS brightness temperatures*. in *IGARSS'03*. 2003. Toulouse France.

Lagerloef, G., et al. *The Aquarius/SAC-D salinity mapping mission and synergies with SMOS*. in *IEEE International Geosciences and Remote Sensing Symposium IGARSS2003*. 2003. Toulouse.

Lagerloef, G., et al. *Aquarius/SAC-D and SMOS - Future additions to the satellite global observing system to measure global sea surface salinity and study the coupling between the water cycle, ocean circulation and climate*. in *IUGG Symposium, Session JSP06 (IAPSO, IAG, IOC): the Global Ocean Observing System*. 2003. Sapporo (Japan).

Lahtinen, J., et al. *Two-dimensional interferometric radiometry: Image validation using celestial objects*. in *IGARSS'03*. 2003. Toulouse France.

Lang, R.H., C. Utku, and D.M. Le Vine. *Measurement of the Dielectric Constant of Seawater at L-Band*. in *IGARSS'03*. 2003. Toulouse France.

Le Vine, D.M. and M. Haken. *RFI at L-band in Synthetic Aperture Radiometers*. in *IGARSS'03*. 2003. Toulouse France.

Merlin, O., et al. *Synergistic use of multispectral remotely sensed data to invert surface soil moisture (EAE03-A-14258)*. in *EGS-AGU-EUG Joint Assembly*. 2003. Nice, France.

Miranda, J., et al. *Estimation of Sea Surface Spectrum Under Non-Stationary Conditions*. in *IGARSS'03*. 2003. Toulouse France.

Miranda, J., et al. *Estimation of sea surface spectrum using neural networks*. in *SPIE's 10th International Symposium in Remote Sensing*. 2003. Barcelona: SPIE.

Monerris, A., M. Vall-Ilossera, and A. Camps. *Study of soil moisture retrieval algorithms using multi-angular L-band brightness temperatures: Application to ESA's SMOS earth explorer*



opportunity mission. in *Conference on Remote Sensing for Agriculture, Ecosystems and Hydrology V*. 2003. Barcelona, SPAIN.

Moulin, M. and H. Achim. *Implementation of the Soil Moisture and Ocean Salinity Variables by the Space SMOS Mission*. in *IAF 2003*. 2003.

Nogues, O., et al. *A 3 GPS-channels Doppler-Delay Receiver for remote sensing applications*. in *23rd International Geoscience and Remote Sensing Symposium (IGARSS 2003)*. 2003. Toulouse, France.

Pardé, M., et al. *Soil Moisture retrieval from L-band measurements over a variety of agricultural crops*. in *IGARSS'03*. 2003. Toulouse France.

Pellenq, J., et al. *Assimilation de l'humidité de surface dans un modèle couplé eau/énergie en milieu semi-aride : préparation à l'utilisation des données SMOS*. in *HYDROLOGIE DES RÉGIONS MÉDITERRANÉENNES ET SEMI-ARIDES*. 2003. Montpellier, France.

Pellenq, J., Y. Kerr, and G. Boulet. *Scaling and Assimilation of SMOS Data for Hydrology*. in *IGARSS'03*. 2003. Toulouse France.

Petitcolin, F., et al. *Soil Moisture Retrieval for the SMOS Mission*. in *IGARSS'03*. 2003. Toulouse France.

Petitcolin, F., P. Waldteufel, and J.-L. Vergely. *Soil moisture retrieval for the SMOS mission (EAE03-A-11911)*. in *EGS-AGU-EUG Joint Assembly*. 2003. Nice, France.

Philipps, S. and C. Boone. *Impact of SMOS Space-Time Averaging on Sea Surface Salinity Retrieval*. in *IGARSS'03*. 2003. Toulouse France.

Picard, B. and E. Anterrieu. *Reconstruction d'image pour un radiomètre à synthèse d'ouverture : application à la mission spatiale SMOS* in *Colloque GRETSI, Traitement Signal et Image*. 2003. Toulouse France.

Picard, B., et al. *Impact of the fringe washing function on the spatial resolution and on the sensitivity of the SMOS instrument*. in *IGARSS'03*. 2003. Toulouse France.

Pons, J., et al. *Passive polarimetric remote sensing of the ocean surface during the rough evaporation duct experiment (RED 2001)*. in *23rd International Geoscience and Remote Sensing Symposium (IGARSS 2003)*. 2003. Toulouse, France.

Rautiainen, K., et al. *Development of airborne aperture synthetic radiometer (HUT-2D)*. in *IGARSS'03*. 2003. Toulouse France.

Reul, N. and B. Chapron. *A simple algorithm for Sea Surface Salinity retrieval from L-Band Radiometric measurements at nadir*. in *IGARSS'03*. 2003. Toulouse France.

Sabia, R., M. Vall-Ilossera, and M. Migliaccio. *Sea Surface Emission at L-Band using the IEM Method*. in *IGARSS'03*. 2003. Toulouse France.



Saleh, K., et al. *Monitoring forests from L-band microwave observations (EuroSTARRS-01 campaign)*. in *IGARSS'03*. 2003. Toulouse France.

Scipal, K. and W. Wagner. *Synergies of the European microwave remote sensing missions SMOS and ASCAT for monitoring soil moisture (EAE03-A-09178)*. in *EGS-AGU-EUG Joint Assembly*. 2003. Nice, France.

Simmonds, L.P. and J.F. Galvez. *Studies of the assimilation of near-surface soil moisture observations into a SVAT to improve the estimation of root-zone soil moisture and water fluxes*. in *IGARSS'03*. 2003. Toulouse France.

Simmonds, L.P., et al. *End-users requirements of a future space-borne passive microwave mission for soil moisture*. in *IGARSS'03*. 2003. Toulouse France.

Skou, N. *Aspects of the SMOS Pre-launch Calibration*. in *IGARSS'03*. 2003. Toulouse France.

Søbjerg, S.S. and N. Skou. *Polarimetric Signatures from a Crop Covered Land Surface Measured by an L-Band Polarimetric Radiometer*. in *IGARSS'03*. 2003. Toulouse France.

Søbjerg, S.S. and N. Skou. *An Airborne Campaign Measuring Wind Signatures from the Sea Surface using an L-band Polarimetric Radiometer*. in *IGARSS'03*. 2003. Toulouse France.

Team, S.P. *Progress on the SMOS Project*. in *IGARSS'03*. 2003. Toulouse France.

Vall-llossera, M., et al. *Inter-Comparison Study of Asymptotic Models for Sea Surface Emissivity Simulation at L-band*. in *IGARSS'03*. 2003. Toulouse France.

Van de Griend, A., J.-P. Wigneron, and P. Waldteufel. *Parameter Retrieval from Heterogeneous Surfaces by 1.4 GHz Multi-Angle SMOS Observations*. in *IGARSS'03*. 2003. Toulouse France.

Van de Griend, A., J.-P. Wigneron, and P. Waldteufel. *Parameter Retrieval of Inhomogeneous Surfaces >using 1.4 GHz Multi-Angle Brightness Temperature Observations*. in *IGARSS'03*. 2003. Toulouse France.

Villarino, R., et al. *Sea Surface emissivity at L-band. Results of the Wind and Salinity Experiments WISE 2000 and 2001 and preliminary results from FROG 2003*. in *SPIE's 10th International Symposium in Remote Sensing*. 2003. Barcelona: SPIE.

Villarino, R., et al. *Sea Foam Effects On The Brightness Temperature At L-Band*. in *IGARSS'03*. 2003. Toulouse France.

Waldteufel, P., J.-L. Vergely, and C. Cot. *A Cardioid model for multiangular radiometric observations*. in *IGARSS'03*. 2003. Toulouse France.

Wigneron, J.P., et al. *Monitoring land surface soil moisture from multiangular SMOS observations*. in *IGARSS'03*. 2003. Toulouse France.

Wigneron, J.-P., et al. *Monitoring land surface soil moisture from multiangular SMOS observations*. in *IGARSS'03*. 2003. Toulouse France.



2004

Anterrieu, E., et al. *A strip adaptive processing approach for the SMOS space mission*. in *Geoscience and Remote Sensing Symposium, 2004. IGARSS '04. Proceedings. 2004 IEEE International*. 2004.

Anterrieu, E., B. Picard, and A. Tanner. *On the regularization of inverse problems in imaging radiometry by aperture synthesis*. in *8th Specialist Meeting on Microwave Radiometry & Remote Sensing Applications (μ RAD'04)*. 2004. Rome (Italy).

Berger, M., Y. Kerr, and J. Font. *Preparing for ESA's Soil Moisture and Ocean Salinity (SMOS) mission*. in *EGU - 1st General Assembly*. 2004. Nice France.

Blanch, S. and A. Aguiasca. *Seawater Dielectric Permittivity Model From Measurements at L-Band*. in *IGARSS 2004*. 2004. Anchorage (Alaska): IEEE.

Calvet, J.-C., et al. *Retrieval of root-zone soil moisture from remotely sensed data*. in *EGS'2004, European Geosciences Union (EGU) Annual Meeting*. 2004. Nice, France.

Camps, A., et al. *Surface brightness temperature at L-band: Impact of surface currents*. in *IEEE International Geoscience and Remote Sensing Symposium*. 2004. Anchorage, AK.

Camps, A., et al. *The emissivity of foam-covered water surface at L-band: Theoretical modeling and experimental results from the frog 2003 field experiment*. in *8th Specialist Meeting on Microwave Radiometry and Remote Sensing Applications*. 2004. Rome, ITALY.

Camps, A., et al. *External Calibration And Salinity Retrieval Improvement By Spatio-Temporal Averaging Using The SMOS Simulator*. in *IGARSS 2004*. 2004. Anchorage (Alaska): IEEE.

Camps, A., et al. *Sea surface brightness temperature at L-band: impact of surface currents*. in *IGARSS 2004*. 2004. Anchorage (Alaska): IEEE.

Camps, A., et al. *The Emissivity Of Foam-Covered Water Surface At L-Band: Theoretical Modeling And Experimental Results From The Frog 2003 Field Experiment*. in *8th Specialist Meeting on Microwave Radiometry and Remote Sensing Applications*. 2004. Roma.

Camps, A., et al. *SMOS radiometric performance evaluation using SEPS: Evaluation of thermal drifts*. in *IEEE International Geoscience and Remote Sensing Symposium*. 2004. Anchorage, AK.

Corbella, L., et al. *Systematic noise analysis of a correlation radiometer front-end*. in *IEEE International Geoscience and Remote Sensing Symposium*. 2004. Anchorage, AK.

de Rosnay, P., et al. *SMOSREX A long term field experiment: Features of effective temperature*. in *Workshop PIRRENE - ONERA*. 2004. Toulouse (France).

de Rosnay, P., et al. *SMOSREX case study: determination of the Effective Temperature for L-band Radiometry*. in *European Geophysical Union (EGU) Annual meeting*, . 2004. Nice, France: Geophysical Research abstracts.



de Rosnay, P., et al. *Multi-angular ground-based L-band radiometer for Estimating Water In Soils (LEWIS) and in-situ measurements. Experiment design and results.* in *Microwave Radiometry and Remote Sensing Applications, Microrad'04*. 2004. Rome, Italie.

de Rosnay, P., et al. *Téledétection de l'humidité des sols. Présentation de l'expérience SMOSREX.* in *Ateliers d'Expérimentation et Instrumentation (AEI 2004)* 2004. Paris.

de Rosnay, P., et al. *SMOSREX: Surface Monitoring Of the Soil Reservoir EXperiment.* in *MICRORAD'04*. 2004. Rome (Italy).

Della Vecchia, A., et al. *Retrieving soil moisture under forests with L-band spaceborne instruments: simulation of perturbing effects, , .* in *EGS'2004, European Geosciences Union (EGU) Annual Meeting*. 2004. Nice, France.

Escorihuela, M.J., et al. *A simple modelling of the bare soil Emission at L band.* in *5th SMOS Woshop*. 2004. Frascati, Italy: <http://www.cesbio.ups-tlse.fr/us/indexsmos.html>

Escorihuela, M.-J., et al. *SMOSREX: Soil Monitoring Of the Soil Reservoir EXperiment. Experiment design and results.* in *EGU GA1*. 2004. Nice, France.

Escorihuela, M.-J., et al. *Soil moisture retrieval from two different vegetated sites -bare soil and fallow- with LEWIS 1.4 GHz radiometer.* in *Microrad'04*. 2004. Rome, Italie.

Gabarró, C., et al. *A new empirical model of sea surface emissivity used to retrieve salinity, wind speed and wave height.* in *8th Specialist Meeting on Microwave Radiometry and Remote Sensing Applications*. 2004. Roma.

Kerr, Y.H., et al. *Influence of Topography on SMOS measurements.* in *Microrad'04 specialist meeting*. 2004. Rome, Italy.

Kerr, Y.H., et al. *The smos mission : status of the project.* in *Microrad'04 specialist meeting*. 2004. Rome, Italy.

Kerr, Y.H., et al. *THE SOIL MOISTURE AND OCEAN SALINITY MISSION: General presentation.* in *IGARSS'04*. 2004. Anchorage Alaska.

Kerr, Y.H., J.-P. Wigneron, and T. Pellarin. *SMOS: Analysis Topography effects.* in *IGARSS'04*. 2004. Anchorage Alaska.

Martinez-Fernandez, J., et al. *Runoff and soil moisture relationships in a small forested basin in the Sistema Central ranges (Spain).* in *International Conference on River and Catchment Dynamics - Natural Processes and Human Impacts*. 2004. Solsona, SPAIN.

Merlin, O., A. Chehbouni, and Y. Kerr. *A downscaling method for distributing surface soil moisture within a microwave pixel: application to monsoon'90 data.* in *Microwave Radiometry and Remote Sensing Applications, Microrad'04*. 2004. Rome, Italie.

Munoz Sabater, J., J.-C. Calvet, and P. de Rosnay. *On the assimilation of multispectral remote sensing data in a SVAT Model.* in *IGARSS'04*. 2004. Anchorage Alaska.



Ottlé, C., et al. *Assimilation de données de surface dans le modèle ISBA-3L : approches séquentielle et variationnelle*. in *Atelier de Modélisation du CNRM*. 2004. Toulouse France.

Picard, B., et al. *Impact of solar radiations on sea surface salinity remote sensing by spaceborne synthetic aperture imaging Radiometers*, . in *IGARSS'2004*. 2004. Anchorage Alaska.

Reul, N. and B. Chapron, *A simple Algorithm for the Sea Surface Salinity Retrieval from L-band Radiometric Measurements at Nadir*, in *Aquarius-SMOS-Hydros Joint Workshop*. 2004: Miami.

Saleh, K., et al. *Soil Moisture estimation from L-band radiometry: SMOS and the SMOSREX ground experiment*. in *35 th COSPAR Scientific assembly*. 2004. Paris, France.

Saleh, K., et al. *An investigation on statistical methods to estimate soil moisture from l-band radiometry: application to the smosrex experiment over a fallow site*. in *IGARSS'04*. 2004. Anchorage Alaska USA.

Saleh, K., et al. *A radiative model to simulate forest emission at lband: sensitivity of brightness temperature to forest components*. in *IGARSS'04*. 2004. Anchorage, Alaska, USA.

Saleh, K., et al. *Statistical methods to estimate soil moisture from L-band radiometry: application to the SMOSREX experiment over a fallow site*. in *Geoscience and Remote Sensing Symposium, 2004. IGARSS '04. Proceedings. 2004 IEEE International*. 2004.

Skou, N. *Atmospheric Corrections for SSS Retrievals*. in *8th Specialist Meeting on Microwave Radiometry and Remote Sensing Applications*. 2004. Roma.

Vall-Ilossera, M., et al. *SMOS REFLEX 2003: L-band emissivity characterization of vineyards*. in *8th Specialist Meeting on Microwave Radiometry and Remote Sensing Applications*. 2004. Rome, ITALY.

Waldteufel, P., et al. *Retrieving soil moisture from space borne radiometry over inhomogenous terrain*. in *Microrad'04 specialist meeting*. 2004. Rome, Italy.

Waldteufel, P., et al. *Multi-step retrieval of soil moisture from space borne radiometry*. in *EGU GA1*. 2004. Nice, France.

Wigneron, J.-P., et al. *Algorithms for retrieving soil moisture from multiangular L-Band observations*. in *EGU GA1*. 2004. Nice, France: Algorithms for retrieving soil moisture from multi-angular L-band observations.

2005



Anterrieu, E. and P. Waldteufel. *A regularized approach for processing full-polarimetric data in synthetic aperture imaging radiometry*. in *31st International Symposium on Remote Sensing of Environment ISRSE'05*. 2005. Saint-Petersburg (Russia).

Bermudo, F., et al. *SMOS: An L-band interferometric radiometer MISSION* in *5th IAA Symposium on Small Satellites for Earth Observation* 2005. Berlin, Germany

Calvet, J.-C., et al. *L'expérience aéroportée CoSMOS*. in *Ateliers d'Expérimentation et d'Instrumentation*. 2005. Toulouse, France.

Calvet, J.-C., et al. *Demonstration of the assimilation of the future SMOS data by using field and airborne campaigns (invited)*. in *EGU General Assembly 2005*. 2005. Wien, Austria.

Calvet, J.-C., et al. *Mesure du contenu en eau des sols dans le réseau météorologique : le projet SMOSMANIA*. in *Ateliers d'Expérimentation et d'Instrumentation*. 2005. Toulouse.

Camps, A., et al. *Impact and Compensation of Diffuse Sun Scattering in 2D Aperture Synthesis Radiometers Imagery*. in *IGARSS'05*. 2005. Seoul, S Korea.

Cohard, J.-M., et al. *Développement de radiomètres micro-ondes pour la mesure des teneurs en eau de surface : Mise au point et premiers tests d'un radiomètre à 4.3 GHz (bande C)*. in *ECCO2005*. 2005.

Corbella, I., et al. *Baseline calibration of interferometric radiometers: Experimental results*. in *25th IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2005)*. 2005. Seoul, SOUTH KOREA.

de Jeu, R., et al. *The effect of dew on passive L-band microwave observations*. in *EGU 2nd General Assembly*. 2005. Wien Austria.

de Rosnay, P., et al. *SMOSREX: A Long Term Field Campaign Experiment for Soil Moisture and Land Surface Processes Remote Sensing*. in *Ateliers d'expérimentation et Instrumentation*. 2005. Toulouse France.

de Rosnay, P., et al. *SMOSREX: A Long Term Field Campaign Experiment for Soil Moisture and Land Surface Processes Remote Sensing*. in *2nd EGU: Workshop on Microwave remote sensing experiments*. 2005. Wien (Austria).

de Rosnay, P., et al. *SMOSREX: A Long Term Field Campaign Experiment for Soil Moisture and Land Surface Processes Remote Sensing*. in *EGU General Assembly 2005*. 2005. Wien, Austria.

de Rosnay, P., et al. *Estimation of soil moisture at the regional and global scale using field experiments, remote sensing and land surface modelling*. in *EGU 2nd General Assembly*. 2005. Vienna, Austria.

Della Vecchia, A., et al. *Modelling L-Band radiometric sensitivity to soil moisture under forests and comparison with EUROSTARRS signatures*. in *EGU*. 2005. Nice: Geophysical Research Abstracts.



Dunne, S., et al. *Oceanpal((R)), a GPS-reflection coastal instrument to monitor tide and sea-state.* in *Oceans 2005 Europe International Conference.* 2005. Brest, FRANCE.

Floury, N., et al., *On the Use of Rigorous Microwave Interaction Models to Support Remote Sensing of Natural Surfaces* in *Proceedings of IGARSS.* 2005: Seoul. Korea.

Kerr, Y., et al. *New Tools and new approaches for assessing water budget at large scales.* in *GEWEX 2005.* Irvine, CA USA.

Kerr, Y.H., et al. *Estimation of soil moisture from SMOS data: Methods and approaches, first results.* in *IGARSS05.* 2005. Seoul Korea: IEEE GRS.

Kerr, Y.H., et al. *Estimation of soil moisture from SMOS data: Methods and approaches, first results (invited).* in *EGU General Assembly 2005.* 2005.

Kerr, Y.H., et al. *Passive microwave remote sensing of soil moisture: New venues and challenges in large-scale hydrology* in *General Assembly.* 2005. Vienna Austria.

Kerr, Y.H., et al. *Passive microwave remote sensing of soil moisture: The SMOS Mission* in *IGARSS05.* 2005. Seoul Korea.

Le Vine, D.M., et al. *Impact of the Sun on Remote Sensing of Sea Surface Salinity from Space* in *IGARS'05,* 2005. Seoul, S Korea.

Macelloni, G., et al. *DOMEX 2004: an Experimental Campaign at Dome-C Antarctica for the Calibration of Space-Borne Low-Frequency Microwave Radiometers.* in *IGARSS'05.* 2005. Seoul, S Korea.

Michel, S., et al. *Global analysis of Sea Surface Salinity Variability from Satellite Data.* in *4th EuroGOOS conference.* 2005. Brest (France).

Miranda, J., et al. *Time-dependent sea surface numerical generation for remote sensing applications.* in *25th IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2005).* 2005. Seoul, SOUTH KOREA.

Monerris, A., et al. *Soil Moisture Retrieval Errors Using L-band Radiometry Induced by the Soil Type Variability* in *IGARSS'05.* 2005. Seoul, S. Korea.

Obligis, E., et al. *Neural Networks to retrieve Sea Surface Salinity from SMOS Brightness Temperatures.* in *IGARSS'05.* 2005. Seoul, S Korea.

Reul, N., et al. *Auxiliary Data Concepts for Sea Surface Salinity Measurements from Space.* in *International Geoscience and Remote Sensing Symposium IGARSS.* 2005. Seoul, Korea.

Reul, N., et al. *Reanalysis of Skylab S-194 L-band data in view of validating sea surface roughness corrections for salinity measurements from space.* in *Proceedings of IGARSS.* 2005. Seoul. Korea.



Sabia, R., et al. *Impact on Sea Surface Salinity Retrieval of Multisource Auxiliary Data within the SMOS mission* in *IGARSS'05*. 2005. Seoul, S Korea.

Torres, F., et al. *Denormalization of visibilities for in-orbit calibration of interferometric radiometers*. in *25th IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2005)*. 2005. Seoul, SOUTH KOREA.

Vall-Ilossera, M., et al. *L-Band Dielectric Properties of Different Soil Types Collected during the MOUSE 2004 Field Experiment*. in *IGARSS'05*. 2005. Seoul, S Korea.

2006

Alvarez-Perez, J.L., et al. *Emissivity calculations for two-dimensional ocean surfaces with the improved Integral Equation Model IEM2M*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2006. Denver, CO.

Anterrieu, E. *Regularization of an inverse problem in remote sensing imaging by aperture synthesis*. in *International Conference on Speech and Signal Processing (ICASSP'06)*. 2006. Toulouse (France).

Anterrieu, E. *Reduction of the reconstruction bias in Synthetic Aperture Imaging Radiometry*. in *International Geoscience And Remote Sensing Symposium (IGARSS'06)*. 2006. Denver (Colorado), USA.

Anterrieu, E., H. Carfantan, and F. Frappart. *Optimized modelling for the antenna patterns of the MIRAS instrument onboard SMOS*. in *International Geoscience And Remote Sensing Symposium (IGARSS'06)*. 2006. Denver (Colorado).

Beraza, S., et al. *MIRAS-SMOS demonstrator test campaigns at Polytechnic University of Catalonia*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2006. Denver, CO.

Berger, M., Y. Kerr, and J. Walker. *The coSMOS campaign: scientific objectives and first results*. in *EGU General assembly*. 2006. Wien, Austria.

Bosch-Lluis, X., et al. *FPGA-based Implementation of a Polarimetric Radiometer with Digital Beamforming*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2006. Denver, CO.

Camps, A., et al. *New instrument concepts for ocean sensing: Analysis of the PAU-radiometer*. in *International Geoscience and Remote Sensing Symposium*. 2006. Denver, CO.

Camps, A., et al. *Sea surface salinity retrieval from space: Potential synergetic use of GNSS-R signals to improve the sea state correction and application to the SMOS mission*. in *9th Specialist Meeting on Microwave Radiometry and Remote Sensing Applications (MicroRad 2006)*. 2006. San Juan, PR.

Camps, A., et al. *From the determination of sea emissivity to the retrieval of salinity: Recent contributions to the SMOS mission from the UPC and ICM*. in *IEEE International Geosciences and Remote Sensing Symposium IGARSS2006*. 2006. Denver (Colorado): IEEE.



Camps, A., et al. *New Radiometer Concepts for Ocean Remote Sensing: Description of the Passive Advanced Unit (PAU) for Ocean Monitoring*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2006. Denver, CO.

Camps, A., et al. *Improved Image Reconstruction Algorithms for Aperture Synthesis Radiometers*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2006. Denver, CO.

Corbella, I., et al. *Inter-Element Phase Calibration in Interferometric Radiometers*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2006. Denver, CO.

Coret, L., et al. *A Method to characterise the topographic impact on the SMOS LBand signal by covariogram analysis*. in *IGARRS'06*. 2006. Boulder Co, USA.

Coret, L., et al. *Flagging the topographic impact on the SMOS signal*. in *MicroRad'06*. 2006. San Juan Puerto Rico.

Coudert, B. and C. Ottlé. *Multiobjective calibration of the SEtHyS SVAT model based on diurnal cycle radiative surface temperature measurements*. in *Second Recent Advances in Quantitative Remote Sensing*. 2006. Torrent (Valencia) Spain: Servicio de Publicaciones. Universitat de Valencia.

de Rosnay, P., et al. *SMOSREX Field Experiment for Soil Moisture and Land Surface Processes Remote Sensing. Status and Long term features of the experiment*. . in *MuRAD 2006*. 2006. San Juan, Puerto Rico: IEEE.

de Rosnay, P., et al. *Long term feature of effective temperature for L-Band radiometry*. in *2nd International Symposium Recent Advances in Quantitative Remote Sensing*. 2006. Torrent (Valencia), Spain.

Escorihuela, M.J., P. de Rosnay, and Y.H. Kerr. *Temperature Dependency of BoundWater Spectral Parameters and its Influence in Soil Moisture Measurements*. in *EGU General assembly*. 2006. Wien, Austria.

Escorihuela, M.J., et al. *Diurnal variations of the radiometric signal of a natural fallow at L-band*. in *2nd International Symposium Recent Advances in Quantitative Remote Sensing*. 2006. Torrent (Valencia), Spain.

Escorihuela, M.J., et al. *A Simple Modeling of a Bare Soil Emission at L- Band and Soil Moisture Retrieval on the SMOSREX site*. in *Microrad'06*. 2006. San Juan Puerto Rico.

Escorihuela, M.J., et al. *A Simple Modeling of a Bare Soil Emission at L- Band and Soil Moisture Retrieval on the SMOSREX site*. in *EGU General assembly*. 2006. Wien, Austria.

Escorihuela, M.J., et al. *Diurnal variations of the radiometric signal of a natural fallow at L-Band*. in *IGARS'06*. 2006. Boulder Co, USA.



Font, J., et al. *An algorithm to retrieve sea surface salinity from SMOS L-band radiometric measurements*. in *Second International Symposium on Recent Advances in Quantitative Remote Sensing 2006*. Valencia.

Font, J., et al. *An iterative convergence algorithm to retrieve sea surface salinity from SMOS L band radiometric measurements in IGARS - Geoscience and Remote Sensing Symposium*. 2006.

Hahne, A., Y. Kerr, and J. Font. *ESA's Soil Moisture and Ocean Salinity Mission (SMOS)*. in *2006 Eumetsat Meteorological Conference*. 2006. Helsinki Finland.

Kerr, Y., et al. *SMOS' soil moisture retrieval algorithm*. in *2nd International Symposium Recent Advances in Quantitative Remote Sensing*. 2006. Torrent (Valencia), Spain,.

Kerr, Y.H., et al. *The SMOS mission. Present status and future plans*. in *IGARSS'06*. 2006. Denver Colorado.

Kerr, Y.H., et al. *The soil moisture and ocean saminity Mission (SMOS): Where are we? (Invited)*. in *EGU General Assembly*. 2006. Wien Austria.

Kerr, Y.H., et al. *The operational SMOS soil moisture algorithm*. in *IGARSS'06*. 2006. Denver Colorado.

Kerr, Y.H., et al. *The Soil Moisture and Ocean Salinity mission: Current Status*. in *MicroRad '06*. 2006. San José Puerto Rico.

Lopez-Baeza, E., et al. *Ceres scales ground validation campaigns for GERB. Assessment of the Valencia Anchor Station capabilities*. in *3rd MSG RAO Workshop*. 2006. Helsinki, FINLAND.

Marchan-Hernandez, J.F., et al. *FPGA-based implementation of a DDM-generator for GPS-reflectometry*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2006. Denver, CO.

Monerris, A., et al. *Roughness Effects on the L-band Emission of Bare Soils: The T-REX Field Experiment*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2006. Denver, CO.

Monerris, A., et al. *Soil moisture retrieval using L-band radiometry: Dependence on soil type and moisture profiles*. in *9th Specialist Meeting on Microwave Radiometry and Remote Sensing Applications (MicroRad 2006)*. 2006. San Juan, PR.

Ottlé, C., et al. *Monitoring root zone soil moisture using a 1D-SVAT model calibrated with METEOSAT8 thermal infrared data and forced with radar precipitation data, . Ed. . . Valencia, 2006*. in *Second Recent Advances in Quantitative Remote Sensing*. 2006. Torrent (Valencia) Spain: Servicio de Publicaciones. Universitat de Valencia.

Ramos-Perez, I., et al. *Design of a Compact Dual-Polarization Receiver for Pseudo-Correlation Radiometers at L-band*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2006. Denver, CO.



Reul, N. *Impact of the forward scattering of galactic and solar radiations from the rough sea surface on sss remote sensing.* in *6th SMOS Workshop*. 2006. TUD Lyngby Denmark.

Ribo, S., et al. *MIRAS airborne demonstrator.* in *9th Specialist Meeting on Microwave Radiometry and Remote Sensing Applications (MicroRad 2006)*. 2006. San Juan, PR.

Sabia, R., et al. *Potential synergetic use of GNSS-R signals to improve the sea-state correction in the sea surface salinity estimation: Application to the SMOS mission.* in *9th Specialist Meeting on Microwave Radiometry and Remote Sensing Applications (MicroRad 2006)*. 2006. San Juan, PR.

Saleh, K., et al. *Retrieval of surface soil moisture over natural grass: rain interception effects (SMOSREX Experiment) in EGU General Assembly.* 2006. Wien (Aut).

Talone, M., et al. *Surface topography and mixed pixel effects on the simulated L-band brightness temperatures.* in *9th Specialist Meeting on Microwave Radiometry and Remote Sensing Applications (MicroRad 2006)*. 2006. San Juan, PR.

Wigneron, J.-P., et al. *Recent advances in modelling the land surface emission at L-band (invited).* in *2nd International Symposium Recent Advances in Quantitative Remote Sensing*. 2006. Torrent (Valencia), Spain.

Zribi, M., et al. *Monitoring of surface soil moisture based on ARSAR/ENVISAT radar data over Kori Diantandou site (Niger).* in *Second Recent Advances in Quantitative Remote Sensing*. 2006. Torrent (Valencia) Spain: Servicio de Publicaciones. Universitat de Valencia.

2007

Alvarez-Perez, J.L. *Effective dielectric constant for a random medium with different scattering species after renormalization of the Helmholtz equation.* in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.

Alvarez-Perez, J.L., et al. *Comparison of different separable basis functions for the application of the method of moments on rough surface scattering.* in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.

Anterrieu, E. and A. Khazaal. *Regularized inversion of dual-polarimetric data in Synthetic Aperture Imaging Radiometry.* in *International Conference on Image Processing (ICIP'07)*. 2007. San-Antonio (Texas).

Bosch-Lluis, X., et al. *Calibration and performance analysis of the PAU-RAD instrument.* in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.

Bosch-Lluis, X., et al. *PAU-RAD instrument web-based remote control.* in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.

Cabot, F., Y.H. Kerr, and P. Waldteufel. *Calibration of SMOS geolocation Biases.* in *IGARSS 07*. 2007. Barcelona Spain.



- Camps, A., et al. *PAU one-receiver ground-based and airborne instruments*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.
- Caparrini, M., et al. *Oceanpal (R): Monitoring sea state with a GNSS-R coastal instrument*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.
- Cardellach, E., A. Rius, and leee. *Sea surface slopes' PDF from GNSS reflected signals*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.
- Cardellach, E., et al. *GNSS-R to complement SMOS-like measurements in 1st Galileo Colloquium*, . 2007. Toulouse, France,.
- Corbella, I., et al. *MIRAS in-orbit calibration*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.
- Coudert, B., et al. *Use of geostationary satellite thermal infrared data to monitor surface exchanges at local scale over heterogeneous landscape: Application to Meteosat 8 data*. in *IGARSS 2007*. 2007. Barcelona (Spain): IEEE.
- Duffo, N., et al. *Some results of the MIRAS-SMOS demonstrator campaigns*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.
- Gabarro, C., et al. *Analysis of the SMOS ocean salinity inversion algorithm*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.
- Grant, J.P., et al. *Calibration of L-MEB for soil moisture retrieval over forests*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, Spain.
- Kerr, Y.H. *The SMOS Soil moisture retrieval algorithm (invited)*. in *IGARSS 07*. 2007. Barcelona Espagne: IEEE.
- Kerr, Y.H. *Science objectives and expected outcome of the SMOS Mission Kerr and the SMOS science team*. in *ENVISAT Symposium*. 2007. Montreux Suisse.
- Kerr, Y.H., et al. *An Overview of the SMOS (Soil Moisture and Ocean Salinity) Mission*. in *Space for Hydrology Workshop*. 2007. Geneva, switzerland.
- Kerr, Y.H., P. Waldteufel, and A. Hahne. *THE SMOS Mission: Status*. in *Space Observation of the Global Water Cycle*. 2007. Irvine CA USA.
- KHazaal, A. and E. Anterrieu. *Brightness temperature maps retrieval for the SMOS space mission: regularized inversion and bias reduction*. in *International Conference on Signal Processing and Communications (ICSPC'07)*. 2007. Dubai (United Arab Emirates).
- Khazaal, A. and E. Anterrieu. *Reconstruction d'image pour la mission SMOS*. in *21ème colloque GRETSI sur le traitement du signal et des images*. 2007. Troyes (France).



- Marchan-Hernandez, J.F., et al. *PAU-GNSS/R, a real-time GPS-reflectometer for Earth observation applications: Architecture insights and preliminary results*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.
- Marchan-Hernandez, J.F., et al. *Correction of the Sea State Impact in the L-Band Brightness Temperature by Means of Delay-Doppler Maps of Global Navigation Satellite Signals Reflected Over the Sea Surface*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.
- Mialon, A., et al. *SMOS mission products over land in Space for Hydrology Workshop*. 2007. Geneva, switzerland.
- Monerris, A., et al. *Topography effects on the L-band emissivity of soils: TuRTLE 2006 field experiment*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.
- Monerris, A., et al. *Empirical determination of the soil emissivity at L-band: Effects of soil moisture, soil roughness, vine canopy, and topography*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.
- Pancieria, R., et al. *SMOS L2 L-band soil moisture retrieval during NAFE'05*. in *7th SMOS Science Workshop*. 2007. Rome, Italy,.
- Pellarin, T., T. Tran, and C. Messenger. *First comparisons between surface soil moisture products derived from land surface temperature anomalies and microwave radiometric measurements over West Africa,,* . in *EGU-2007*. 2007. Vienna, Austria.
- Piles, M., et al. *Deconvolution algorithms in image reconstruction for Aperture Synthesis Radiometers*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.
- Ramos-Perez, I., et al. *Synthetic aperture PAU: a new instrument to test potential improvements for future SMOSops*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.
- Reul, N., et al., *Analysis of L-band radiometric measurements conducted over the North Sea during the CoSMOS-OS airborne campaign*, in *IEEE International Geoscience and Remote Sensing*. 2007: Barcelona.
- Ribo, S., et al. *ASAP, towards a PARIS instrument for space*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.
- Rodriguez-Alvarez, N., et al. *Sea surface temperature retrieval using IR-radiometry and atmospheric modeling: Simulation and experimental results using PAU-IR*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.
- Sabia, R., et al. *Retrieved sea surface salinity spatial variability using high resolution data within the Soil Moisture and Ocean Salinity (SMOS) mission*. in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.



- Sabia, R., et al. *Towards an ocean salinity error budget estimation within the SMOS mission.* in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.
- Saleh, K., et al. *First Results of the CoSMOS-NAFE L-band Experiment in Southeast Australia.* in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, Spain,.
- Saleh, K., et al. *The ESA CoSMOS study for the validation of the SMOS Soil Moisture L2 prototype.* in *7th SMOS Science Workshop*. 2007. Rome, Italy: CESBIO.
- Saleh, K., et al. *The CoSMOS L Band experiment in SouthEast Australia.* in *IGARSS 07*. 2007. Barcelona Spain.
- Saleh, K., et al. *Estimates of surface soil moisture in prairies using L band passive microwaves.* in *IGARSS 07*. 2007. Barcelona Spain.
- Talone, M., et al. *Towards a coherent sea surface salinity product from SMOS radiometric measurements and ARGO buoys.* in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.
- Waldteufel, P., et al. *Optimizing the algorithm for retrieving soil moisture from SMOS data in IGARSS07.* 2007. Barcelona Spain.
- Walker, J., et al. *The National Airborne Field Experiment Data Sets. (Oral presentation & congress paper).* in *MODSIM 2007, International Congress on Modelling and Simulation. Modelling and Simulation Society of Australia and New Zealand*. 2007.
- Zine, S., et al. *SMOS sea surface salinity prototype processor: Algorithm validation.* in *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. 2007. Barcelona, SPAIN.
- 2008**
- Anterrieu, E., A. Camps, and Ieee. *Image Reconstruction Algorithms for 2D Aperture Synthesis Radiometers.* in *10th Specialist Meeting on Microwave Radiometry and Remote Sensing of the Environment*. 2008. Firenze, ITALY.
- Bosch-Lluis, X., et al. *The Impact of the Number of Bits in Digital Beamforming Real Aperture and Synthetic Aperture Radiometers.* in *10th Specialist Meeting on Microwave Radiometry and Remote Sensing of the Environment*. 2008. Firenze, ITALY.
- Calvet, J.-C., et al. *Assimilation of EO data in land surface models: interactions between water and carbon cycles.* in *CAHMDA III*. 2008. Melbourne Australia.
- Camps, A., et al. *PAU in SeoSAT: A Proposed Hybrid L-band Microwave Radiometer/GPS Reflectometer to Improve Sea Surface Salinity Estimates from Space.* in *10th Specialist Meeting on Microwave Radiometry and Remote Sensing of the Environment*. 2008. Firenze, ITALY.
- Corbella, I., et al. *MIRAS Ground Characterization.* in *10th Specialist Meeting on Microwave Radiometry and Remote Sensing of the Environment*. 2008. Firenze, ITALY.



de Rosnay, P., et al. *Soil moisture remote sensing for numerical weather prediction: L-Band Emission modelling over Land surfaces: the Community Microwave Emission Model (CMEM)*. in *IGARSS'08*. 2008. Boston, Massachusetts, USA: IEEE.

Escorihuela, M.-J., et al. *On the effective penetration depth of L-band radiometry and the validation of SMOS data: a case study*. in *EGU 2008*. 2008. Vienna, Austria.

Juglea, S., et al. *L-Band brightness temperature simulated from coupled SVAT model and radiative transfer model over the Valencia Anchor Station*. in *EGU 2008*. 2008. Vienna, Austria.

Kerr, Y.H. *Soil moisture retrieval from Space: How and what for (Keynote)*. in *EGU 2008*. 2008. Vienna, Austria.

Kerr, Y.H., et al. *The SMOS mission: present status and future plans*. in *IGARSS08*. 2008. Boston USA: IEEE.

Kerr, Y.H., et al. *The SMOS Project Current Status (invited)*. in *EGU 2008*. 2008. Vienna, Austria.

Kerr, Y.H., et al. *The prototype SMOS Soil moisture Algorithm*. in *IGARSS08*. 2008. Boston USA: IEEE.

Kerr, Y.H., et al. *SMOS retrieval Algorithm: Trials and tribulations*. in *CAHMDA III*. 2008. Melbourne Australia.

Kerr, Y.H., et al. *Science objectives and expected outcome of the SMOS Mission*. in *Microrad 2008*. 2008. Florence Italie.

Mecklenburg, S., et al. *The Soil Moisture and Ocean Salinity Mission: An overview*. in *EGU 2008*. 2008. Vienna, Austria.

Monerris, A., et al. *Radiometric Observations of Vines from the Green Period to the Withering*. in *10th Specialist Meeting on Microwave Radiometry and Remote Sensing of the Environment*. 2008. Firenze, ITALY.

Ramos-Perez, I., et al. *Use of Pseudo-Random Noise Sequences in Microwave Radiometer Calibration*. in *10th Specialist Meeting on Microwave Radiometry and Remote Sensing of the Environment*. 2008. Firenze, ITALY.

Saleh, K., et al. *Validation of the SMOS Level 2 retrieval algorithm over crops and prairies from the COSMOS-NAFE campaign*. in *IGARSS'08*. 2008. Boston, Massachusetts, USA: IEEE.

Talone, M., et al. *The Impact of Combining SMOS and ARGO Data on the SMOS Level 2 and 3 Products and Effect of the Vicinity of the Coast*. in *10th Specialist Meeting on Microwave Radiometry and Remote Sensing of the Environment*. 2008. Firenze, ITALY.



Journal articles

1971-1995



Hollinger, J.P., *Passive microwave measurements of sea surface roughness*. IEEE Trans. Geosci. Rem. Sens., 1971. GL-9(3): p. 165-189.

Kerr, Y.H. and E.G. Njoku, *A semiempirical model for interpreting microwave emission from semiarid land surfaces as seen from space*. IEEE Trans. Geosci. Remote Sens., 1990. 28(3): p. 384-393.

Kerr, Y.H. and E.G. Njoku, *Microwave brightness of land surfaces from outer space*. Nasa Tech Briefs J., 1991. 15(5): p. 34.

Kerr, Y.H. and E.G. Njoku, *On the use of passive microwaves at 37 GHz in remote sensing of vegetation*. Int. J. Remote Sens., 1993. 14(10): p. 1931-1943.

Wigneron, J.P., et al., *Microwave Emission of Vegetation: Sensitivity to Leaf Characteristics*. IEEE Trans. Geosci. Remote Sens., 1993. 31(3): p. 716-726.

Wigneron, J.P., et al., *Inversion of Surface Parameters from Passive Microwave Measurements over a Soybean Field*. Remote Sens. Envir., 1993. 46: p. 61-72.

Calvet, J.-C., et al., *Plant water content and temperature of the Amazon forest from satellite microwave radiometry*. Geoscience and Remote Sensing, IEEE Transactions on, 1994. 32(2): p. 397-408.

Le Vine, D.M., et al., *ESTAR: A Synthetic aperture Microwave Radiometer for Remote Sensing applications*. Proc. IEEE, 1994. 82(1787-1801).

Schmugge, T.J. and T.J. Jackson, *Mapping soil moisture with microwave radiometers*. Meteorol. Atmos. Phys, 1994. 54(213-223).

Wigneron, J.-P., et al., *A simple algorithm to retrieve soil moisture and vegetation biomass using passive microwave measurements over crop fields*. Remote sens. environ., 1995. 51: p. 331-341.

1996

Camps, A., et al., *The Processing of Hexagonally Sampled Signals with Standard Rectangular Techniques: Application to 2D Large Aperture Synthesis Interferometric Radiometers*. IEEE Trans. on Geosci. and Remote Sens, 1996. 35(1): p. 183-190.

Ferrazzoli, P. and L. Guerriero, *Passive microwave remote sensing of forests: A model investigation*. IEEE Trans Geosci.Remote Sens., 1996. 34: p. 433--443.

Lannes, A., E. Anterrieu, and K. Bouyoucef, *Fourier Interpolation and reconstruction via Shannon-type techniques, Part II: Technical developments and applications*. J. Mod. Optics, 1996. 43: p. 105-138.

Torres, F., et al., *On-Board Phase and Modulus Calibration of Large Aperture Synthesis Radiometers: Study Applied to MIRAS*. IEEE Trans. on Geosci. and Remote Sens, 1996. 34(4): p. 1000-1009.



Wigneron, J.-P., J.-C. Calvet, and Y. Kerr, *Monitoring water interception by crop fields from passive microwave observations*. Agricultural and Forest Meteorology, 1996. 80: p. 177-194.

1997

Camps, A., et al., *The processing of hexagonally sampled signals with standard rectangular techniques: Application to 2-D large aperture synthesis interferometric radiometers*. IEEE Transactions on Geoscience and Remote Sensing, 1997. 35(1): p. 183-190.

Camps, A., et al., *Impact of antenna errors on the radiometric accuracy of large aperture synthesis radiometers*. Radio Science, 1997. 32(2): p. 657-668.

Camps, A., et al., *Threshold and timing errors of 1 bit/2 level digital correlators in Earth observation synthetic aperture radiometry*. Electronics Letters, 1997. 33(9): p. 812-814.

Camps, A., et al., *Calibration and experimental results of a two-dimensional interferometric radiometer laboratory prototype*. Radio Science, 1997. 32(5): p. 1821-1832.

Martín-Neira, M. and J.M. Goutoule, *MIRAS - A two-dimensional aperture-synthesis radiometer for soil-moisture and ocean-salinity observations*. ESA Bull., 1997. 92: p. 95-104.

Rius, A., G. Ruffini, and L. Cucurull, *Improving the vertical resolution of ionospheric tomography with GPS occultations*. Geophysical Research Letters, 1997. 24(18): p. 2291-2294.

Torres, F., et al., *Impact of Receiver Errors on the radiometric resolution of large two-dimensional aperture synthesis radiometers*. Radio Sci., 1997. 32(2): p. 629-641.

Wigneron, J.P., Y. Kerr, and L. Prévot, *Retrieval of Soil and Vegetation Features from Passive Microwave Measurements*. Remote Sensing Reviews, 1997. 15: p. 157-177.

1998

Bara, J., et al., *Angular resolution of two-dimensional, hexagonally sampled interferometric radiometers*. Radio Science, 1998. 33(5): p. 1459-1473.

Calvet, J.-C., J. Noilhan, and P. Bessemoulin, *Retrieving the root-zone soil moisture from surface soil moisture or temperature estimates: a feasibility study based on field measurements*. J. Appl. Meteor, 1998. 37: p. 371-386.

Camps, A., et al., *Extension of the clean technique to the microwave imaging of continuous thermal sources by means of aperture synthesis radiometers - Abstract*. Journal of Electromagnetic Waves and Applications, 1998. 12(3): p. 311-313.

Camps, A., et al., *Experimental validation of radiometric sensitivity in correlation radiometers*. Electronics Letters, 1998. 34(25): p. 2377-2378.

Camps, A., et al., *Radiometric sensitivity computation in aperture synthesis interferometric radiometry*. IEEE Trans. Antenna Propagat., 1998. 36(2): p. 680-685.



Camps, A., I. Corbella, and J.M. Rius, *Extension of Kirchhoff method under stationary phase approximation to determination of polarimetric thermal emission of the sea*. Electronics Letters, 1998. 34(15): p. 1501-1503.

Camps, A., et al., *Mutual coupling effects on antenna radiation pattern: An experimental study applied to interferometric radiometers*. Radio Science, 1998. 33(6): p. 1543-1552.

Lannes, A., *Phase closure imaging in algebraic graph theory : a new class of phase calibration algorithms*. J. Opt. Soc. Am.A., 1998. 15: p. 419-429.

Peichl, M., et al., *Microwave imaging of the brightness temperature distribution of extended areas in the near and far field using two-dimensional aperture synthesis with high spatial resolution*. Radio Science, 1998. 33(3): p. 781-801.

Rius, A., G. Ruffini, and A. Romeo, *Analysis of ionospheric electron density distribution from GPS/MET occultations*. IEEE Transactions on Geoscience and Remote Sensing, 1998. 36(2): p. 383-394.

Schmugge, T.J., *Applications of passive microwave observations of surface soil moisture*. Journal of Hydrology, 1998. 212-213: p. 188-197.

Wigneron, J.P., et al., *Use of passive microwave remote sensing to monitor soil moisture: a review*. Agronomie: Agriculture and environment, 1998. 18: p. 27-43.

1999

Camps, A., et al., *Automatic calibration of channels frequency response in interferometric radiometers*. Electronics Letters, 1999. 35(2): p. 115-116.

Lannes, A., *Phase calibration on interferometric graphs*. J. Opt. Soc. Am. A., 1999. 16: p. 443-454.

Lannes, A. and E. Anterrieu, *Redundant spacing calibration : phase restoration methods*. J. Opt. Soc. Am. A., 1999. 16(12): p. 2866-2879.

Le Vine, D.M., *Synthetic aperture radiometer systems*. IEEE Trans. MTT, 1999. 47(12): p. 2228-2236.

Wigneron, J.P., et al., *A parametric study on passive and active microwave observations over a soybean crop*. IEEE TGARS, 1999. 37(6): p. 2728-2733.

Wigneron, J.-P., et al., *Estimating Root Zone soil moisture from surface soil moisture data and soil-vegetation-atmosphere-transfer modeling*. WaterResources Research, 1999. 35(12): p. 3735-3745.

2000

Bara, J., et al., *The correlation of visibility noise and its impact on the radiometric resolution of an aperture synthesis radiometer*. IEEE Transactions on Geoscience and Remote Sensing, 2000. 38(5): p. 2423-2426.



Bara, J., et al., *Remote sensing of hydrometeors by means of interferometric radiometry: Theory and experimental results*. Radio Science, 2000. 35(3): p. 799-812.

Calvet, J.-C. and N. J., *From near surface to root zone soil moisture using year round data*. Journal of Hydrometeorology, 2000. 1(5): p. 393-411.

Cardellach, E., et al., *The use of GPS buoys in the determination of oceanic variables*. Earth Planets and Space, 2000. 52(11): p. 1113-1116.

Corbella, I., et al., *Analysis of noise-injection networks for interferometric-radiometer calibration*. IEEE Transactions on Microwave Theory and Techniques, 2000. 48(4): p. 545-552.

Ferrazzoli, P., et al., *Multifrequency emission of wheat: modeling and applications*. IEEE Trans. Geosci. Remote Sens., 2000. 18(6): p. 2598-2607.

Font, J., Y. Kerr, and M. Berger, *Measuring ocean salinity from Space. The European Space Agency SMOS mission*. Backscatter, 2000. 11(3): p. 17-19.

Gomez-Plaza, A., et al., *Spatial patterns and temporal stability of soil moisture across a range of scales in a semi-arid environment*. Hydrological Processes, 2000. 14(7): p. 1261-1277.

Kerr, Y.H., et al., *The Soil Moisture and Ocean Salinity Mission - SMOS*. Earth Observ. Quart., 2000. 66: p. 18-26.

Long, D.G. and M.R. Drinkwater, *Azimuth variation in microwave scatterometer and radiometer data over antarctica*. IEEE Trans. Geosci. Rem. Sens., 2000. 38(4): p. 1857-1870.

Magagi, R.D., Y.H. Kerr, and J.-C. Meunier, *Results of combining L and C band Passive microwave airborne data over sahelian area*. IEEE Trans. Geosci. Rem. Sens., 2000. 38(4): p. 1997-2008.

Ruf, C.F., *Detection of calibration drifts in spaceborne microwave radiometers using a vicarious cold reference*. IEEE Trans Geosci.Remote Sens., 2000. 38(1): p. 44-52.

Wigneron, J.-P., et al., *Two-D microwave interferometer retrieval capabilities of over land surfaces (SMOS Mission)*. Rem. Sens. Environ., 2000. 73(3): p. 270-282.

2001

Ballabrera-Poy, J., A.J. Busalacchi, and R. Murtugudde, *Application of a reduced-order Kalman filter to initialize a coupled atmosphere-ocean model: Impact on the prediction of El Nino*. Journal of Climate, 2001. 14(8): p. 1720-1737.

Bara, J., et al., *Specification of channel filters for an interferometric radiometer*. Radio Science, 2001. 36(1): p. 97-106.



Camps, A., A. Cardama, and D. Infantes, *Synthesis of large low-redundancy linear arrays*. IEEE Transactions on Antennas and Propagation, 2001. 49(12): p. 1881-1883.

Font, J., et al., *WISE 2000: Can we measure salinity from a satellite?* Rapp. Comm. int. Mer Médit., 2001. 36: p. 60.

Kerr, Y.H., et al., *Soil Moisture Retrieval from Space: The Soil Moisture and Ocean Salinity (SMOS) Mission*. IEEE Trans. Geosci. and Remote Sens., 2001. 39(8): p. 1729-1735.

Murtugudde, R.G., et al., *Relationship between zonal and meridional modes in the tropical Atlantic*. Geophysical Research Letters, 2001. 28(23): p. 4463-4466.

Portabella, M. and A. Stoffelen, *Rain detection and quality control of SeaWinds*. Journal of Atmospheric and Oceanic Technology, 2001. 18(7): p. 1171-1183.

Silvestrin, P., et al., *ESA's Second Earth Explorer Opportunity Mission: The soil Moisture and Ocean salinity Mission - SMOS*. IEEE Geoscience and Remote Sensing Newsletter, 2001(118): p. 11-14.

Vall-llossera, M., et al., *Reliability analysis in aperture synthesis interferometric radiometers: Application to L band Microwave Imaging Radiometer with Aperture Synthesis instrument*. Radio Science, 2001. 36(1): p. 107-117.

Waldteufel, P. and G. Caudal, *Off-axis radiometric measurements: application to interferometric antenna designs*. IEEE Trans. Antenna Propagat., 2001. submitted: p. 24.

Wigneron, J.-P., et al., *A simple parameterization of the L-band microwave emission from rough agricultural soils*. IEEE Trans. Geosci. Rem. Sens., 2001. 39(8): p. 1697-1707.

Wilson, W.J., et al., *High stability L-band radiometer measurements of saltwater*. IEEE Trans. Geosci. Rem. Sens., 2001. 42: p. 1829-1835.

Yueh, S.H., et al., *Error sources and feasibility for microwave remote sensing of ocean surface salinity*. IEEE Trans. Geosci. Rem. Sens., 2001. 39(5): p. 1049-1060.

2002

Anterrieu, E., P. Waldteufel, and A. Lannes, *Apodization functions for 2D hexagonally sampled synthetic aperture imaging radiometers*. IEEE Trans Geosci. Remote Sens., 2002. 40(12): p. 2531-2542.

Ballabrera-Poy, J., R. Murtugudde, and A.J. Busalacchi, *On the potential impact of sea surface salinity observations on ENSO predictions*. Journal of Geophysical Research-Oceans, 2002. 107(C12).

Bayle, F., et al., *Two-dimensional synthetic aperture images over a land surface scene*. IEEE Trans. Geosci. Rem. Sens., 2002. 40(3): p. 710-714.



- Boulet, G., et al., *Deriving catchment-scale water and energy balance parameters using data assimilation based on extended Kalman filtering*. Hydrological Sciences Journal, 2002. 47(3): p. 449-467.
- Burrage, D.M., et al., *Structure and influence of tropical river plumes in the Great Barrier Reef: Application and performance of an airborne sea surface salinity mapping system*. Remote Sensing of Environment, 2002. submitted.
- Camps, A., et al., *Sea Surface Emissivity Observations at L-band: First Results of the Wind and Salinity Experiment WISE-2000*. IEEE Transactions on Geoscience and Remote Sensing, 2002. 40(10): p. 2117-2130.
- Caudal, G., *A physical model for the narrowing of the directional sea wave spectra in the short gravity to gravity-capillary range - art. no. 3148*. Journal of Geophysical Research Oceans, 2002. 107(C10): p. 3148.
- Corbella, I., et al., *Optimum redundant array configurations for Earth observation aperture synthesis microwave radiometers*. Electronics Letters, 2002. 38(20): p. 1205-1207.
- Delahaye, J.-Y., P. Golé, and P. Waldteufel, *Calibration error of L-band sky-looking ground-based radiometers*. Radio Sci., 2002. 37(1): p. 11/1-11/11.
- Dinnat, E., et al., *Influence of sea surface emissivity model parameters at L-band for the estimation of salinity*. International Journal of Remote Sensing, 2002. 23(23): p. 5117-5122.
- Ferrazzoli, P., L. Guerriero, and J.P. Wigneron, *Simulating L-band emission of forests in view of future satellite applications*. IEEE Trans. Geosci. Remote Sens., 2002. 40(12): p. 2692-2708.
- Lagerloef, G.S.E., *Introduction to the special section: The role of surface salinity on upper ocean dynamics, air-sea interaction and climate*. J. Geophys. Res., 2002. 107(C12)(8000, doi:10.1029/2002JC001669).
- Liou, Y.-A., et al., *Retrieval of crop biomass and soil moisture from measured 1.4 and 10.65 brightness temperatures*. IEEE Trans. Geosci. Remote Sens., 2002. 40(6): p. 1260-1268.
- Martin-Neira, M., et al., *Altimetry precision of 1 cm over a pond using the wide-lane carrier phase of GPS reflected signals*. Canadian Journal of Remote Sensing, 2002. 28(3): p. 394-403.
- Martin-Neira, M., et al., *The MIRAS Demonstrator Pilot Project - Towards SMOS*. Esa Bulletin-European Space Agency, 2002(111): p. 123-131.
- Martín-Neira, M., S. Ribó, and A.J. Martín-Polegre, *Polarimetric Mode of MIRAS*. IEEE T. Geosci. Remote., 2002. 40(8): p. 1755-1768.
- Portabella, M., A. Stoffelen, and J.A. Johannessen, *Toward an optimal inversion method for synthetic aperture radar wind retrieval*. Journal of Geophysical Research-Oceans, 2002. 107(C8).
- Rius, A., et al., *Sea surface state measured using GPS reflected signals*. Geophysical Research Letters, 2002. 29(23).



Ruf, C.F., *Characterisation and correction of a drift in calibration of the TOPEX microwave radiometer*. IEEE TGARS, 2002. 40(2): p. 509-511.

Vossepoel, F.C., G. Burgers, and P.J. vanLeeuwen, *Effects of correcting salinity with altimeter measurements in an equatorial Pacific ocean model - art. no. 8001*. 2002. 107(C12): p. 8001.

Waldteufel, P. and G. Caudal, *Off-axis Radiometric Measurements : Application to Interferometric Antenna Designs*. IEEE Trans. Geoscience and Remote Sensing, 2002. 40(6): p. 1435-1439.

Wigneron, J.-P., et al., *Modeling approaches to assimilating L-Band passive microwave observations over land surfaces*. J. Geophys. Res., 2002. 107(D14): p. DOI10.1029/2001JD000958.

2003

Anterrieu, E., P. Waldteufel, and G. Caudal, *About the effects of instrument errors in interferometric radiometry*. Radio Sciences, 2003. 38(3): p. 8044, doi: 10.1029/2002RS002750.

Bouzinac, C., J. Font, and J. Johannessen, *Annual cycles of sea level and sea surface temperature in the western Mediterranean Sea*. Journal of Geophysical Research-Oceans, 2003. 108(C3).

Butora, R. and A. Camps, *Noise maps in aperture synthesis radiometric images due to cross-correlation of visibility noise*. Radio Science, 2003. 38(4).

Camps, A., et al., *Polarimetric Formulation of the Visibility Function Equation Including Cross-Polar Antenna Patterns*. IEEE Geoscience and Remote Sensing Letters, 2003. in press.

Camps, A., et al., *L-band sea surface emissivity: Preliminary results of the WISE-2000 campaign and its application to salinity retrieval in the SMOS mission*. Radio Science, 2003. 38: p. doi:10.1029/2002RS002629.

Camps, A., et al., *Redundant space calibration of hexagonal and Y-shaped beamforming radars and interferometric radiometers*. International Journal of Remote Sensing, 2003. 24(24): p. 5183-5196.

Camps, A., et al., *Sun Effects In 2D Aperture Synthesis Radiometry Imaging And Their Cancellation*. IEEE Geoscience and Remote Sensing Letters, 2003. in press.

Cardellach, E., et al., *Mediterranean Balloon Experiment: ocean wind speed sensing from the stratosphere, using GPS reflections*. Remote Sensing of Environment, 2003. 88(3): p. 351-362.

Corbella, I., et al., *End-to-end simulator of two-dimensional interferometric radiometry*. Radio Science, 2003. 38(3): p. 8058.

de Rosnay, P., *A GCM experiment on time sampling for remote sensing of near surface soil moisture*. Journal of hydrometeorology, 2003. Vol 4(2): p. 448-459.



Dinnat, E., et al., *Issues concerning the sea emissivity modeling at L-band for retrieving surface salinity*. Radio Science, 2003. 38, No. 4: p. 10.1029/2002RS002637.

Koblinsky, C.J., et al., *Sea surface salinity from space: Science goals and measurement approach*. Radio Sci, 2003. 38(4): p. 8064.

Martinez-Fernandez, J. and A. Ceballos, *Temporal stability of soil moisture in a large-field experiment in Spain*. Soil Science Society of America Journal, 2003. 67(6): p. 1647-1656.

Miranda, J., et al., *Sea state effect on the sea surface emissivity at L-band*. IEEE Trans Geosci Remote, 2003. 41(10): p. 2307-2315.

Ostrovskii, A. and J. Font, *Advection and dissipation rates in the upper ocean mixed layer heat anomaly budget over the North Atlantic in summer*. Journal of Geophysical Research-Oceans, 2003. 108(C12).

Pardé, M., et al., *Retrieving surface soil moisture over a wheat field: comparison of different methods*. Remote Sensing of the Environment, 2003. 87: p. 334-344.

Pellarin, T., J.-C. Calvet, and J.-P. Wigneron, *Surface Soil Moisture Retrieval from L-band radiometry: a Global Regression Study*. IEEE Trans. Geosc. Remote Sens., 2003. 41(9): p. 2037 -2051.

Pellarin, T., et al., *Two-year global simulation of L-band brightness temperatures over land*. IEEE Transactions on Geoscience and Remote Sensing, 2003. 41(4): p. 2135-2139.

Pellarin, T., et al., *Global soil moisture retrieval from a synthetic L-band brightness temperature data set*. J. Geophys. Res., 2003. 108(D12): p. 4364, doi: 10.1029/2002JD003086.

Pellenq, J., et al., *A disaggregation scheme for soil moisture based on topography and soil depth*. Journal of Hydrology, 2003. 276(1-4): p. 112 - 127.

Reul, N. and B. Chapron, *A model of sea-foam thickness distribution for passive microwave remote sensing applications*. Journal of Geophysical Research Oceans, 2003. 108(C10): p. 3321.

Skou, N., *Faraday rotation and L-band oceanographic measurements*. Radio Sci, 2003. 38(4): p. 8059.

Torres, E., et al., *Dynamic range and linearity trade-off in detectors for interferometric radiometers*. Electronics Letters, 2003. 39(25): p. 1852-1854.

Van de Griend, A.A., J.-P. Wigneron, and P. Waldteufel, *Consequences of Surface Heterogeneity for Parameter Retrieval from 1.4 GHz Multi-Angle SMOS Observations*. IEEE Transaction on Geoscience and Remote Sensing, 2003. 41(4): p. 803-811.

Waldteufel, P., J. Boutin, and Y. Kerr, *Selecting an optimal configuration for the SMOS mission*. Radio Science, 2003. 38(3): p. 10.1029/2002RS002744,.



Wigneron, J.-P., et al., *Retrieving near surface soil moisture from microwave radiometric observations: current status and future plans*. Remote Sens. Environ., 2003. 85: p. 489-506.

Wigneron, J.-P., et al., *Retrieving soil moisture from Microwave radiometric observations: current status and future plans*. Remote Sensing of the Environment, 2003. 85: p. 489-506.

2004

Anterrieu, E., *A resolving matrix approach for Synthetic Aperture Imaging Radiometers*. IEEE Trans Geosci.Remote Sens., 2004. 42(8): p. 1649-1656.

Anterrieu, E., S. Gratton, and B. Picard, *Problème inverse en télédétection par imagerie à synthèse d'ouverture*. Traitement du signal, 2004. 21(1): p. 1-15.

Aparicio, J.M. and A. Rius, *A raytracing inversion procedure for the extraction of the atmospheric refractivity from GNSS travel-time data*. Physics and Chemistry of the Earth, 2004. 29(2-3): p. 213-224.

Boutin, J., et al., *Surface salinity retrieved from SMOS measurements over global ocean: imprecisions due to surface roughness and temperature uncertainties*. Journal of Atmospheric and Oceanic Technology, 2004. 21: p. 1432-1447.

Calvet, J.-C., et al., *Modelling forest transpiration and CO₂ fluxes - response to soil moisture stress* Agric. For. Meteorol., 2004. 124(3-4): p. 143-156.

Camps, A., et al., *The WISE 2000 and 2001 Field Experiments in Support of the SMOS Mission: Sea Surface L-Band Brightness Temperature Observations and Their Application to Sea Surface Salinity Retrieval*. IEEE Transactions on Geoscience and Remote Sensing, 2004. 42: p. 804-823.

Camps, A., et al., *Sun effects in 2-D aperture synthesis radiometry imaging and their cancelation*. IEEE Transactions on Geoscience and Remote Sensing, 2004. 42(6): p. 1161-1167.

Camps, A., et al., *Retrieving sea surface salinity with multi-angular L-band brightness temperatures: Improvement by spatio-temporal averaging*. Radio Sci, 2004. in press.

Cardellach, E., et al., *Carrier phase delay altimetry with GPS-reflection/occultation interferometry from low Earth orbiters*. Geophysical Research Letters, 2004. 31(10).

Corbella, I., et al., *The visibility function in interferometric aperture synthesis radiometry*. IEEE Transactions on Geoscience and Remote Sensing, 2004. 42(8): p. 1677-1682.

Drinkwater, M.R., N. Floury, and M. Tedesco, *L-band ice-sheet brightness temperature at Dome C, Antarctica: spectral emission modelling, temporal stability and impact of the ionosphere*. Annals of Glaciology, 2004. 39: p. 391-396.

Entekhabi, D., et al., *The Hydrosphere State (Hydros) Satellite mission: an Earth system pathfinder for global mapping of soil moisture and land freeze/thaw*. IEEE Trans. Geosc. Remote Sens., 2004. 42(10): p. 2184-2195.



- Etcheto, J., et al., *Wind speed effect on L-band brightness temperature inferred from EuroSTARRS and WISE 2001 field experiments*. IEEE Trans Geosci Remote, 2004. 42(10): p. 2206-2213.
- Font, J., et al., *The determination of surface salinity with the European SMOS space mission*. IEEE Trans Geosci. Remote Sens., 2004. 42(10): p. 2196-2205.
- Gabarró, C., et al., *A new empirical model of sea surface microwave emissivity for salinity remote sensing*. Geophys Res Lett, 2004. 31: p. L01309.
- Gabarró, C., et al., *Determination of sea surface salinity and wind speed by L-band microwave radiometry from a fixed platform*. International Journal of Remote Sensing, 2004. 25(1): p. 111-128.
- Germain, O., et al., *The Eddy Experiment: GNSS-R specularometry for directional sea-roughness retrieval from low altitude aircraft*. Geophysical Research Letters, 2004. 31(21).
- Kudryavtsev, V. and J. Johannessen, *On effect of wave breaking on short wind waves - art. no. L20310*. Geophysical Research Letters, 2004. 31(20): p. 20310-20310.
- Lagerloef, G., *Satellites to address ocean and land hydrology*. EOS Trans. AGU, 2004. 85(42): p. 419-421.
- Lemaître, F., et al., *Design and test of the ground based L band Radiometer for Estimating Water in Soils (LEWIS)*. IEEE Geoscience and Remote Sensing, 2004. 42(8): p. 1666-1676.
- Murty, V.S.N., et al., *A new technique for the estimation of sea surface salinity in the tropical Indian Ocean from OLR - art. no. C12006*. Journal Of Geophysical Research-Oceans, 2004. 109(C12): p. 12006-12006.
- Pardé, M., et al., *N-Parameter Retrievals from L-band Microwave Observations Acquired over a Variety of Crop Fields*. IEEE Trans. Geosci. Remote Sens., 2004. 42(6): p. 1168-1178.
- Portabella, M. and A. Stoffelen, *A probabilistic approach for SeaWinds data assimilation*. Quarterly Journal of the Royal Meteorological Society, 2004. 130(596): p. 127-152.
- Ribó, S. and M. Martín-Neira, *Faraday rotation correction in the polarimetric mode of MIRAS*. IEEE T. Geosci. Remote., 2004. 42(7): p. 1405-1410.
- Ruffini, G., et al., *The Eddy Experiment: Accurate GNSS-R ocean altimetry from low altitude aircraft*. Geophysical Research Letters, 2004. 31(12).
- Ruiz, S., D. Gomis, and J. Font, *Recovery of North-East Atlantic temperature fields from profiling floats: Determination of the optimal float number from sampling and instrumental error analysis*. J. Marine Syst., 2004. 65(1-4): p. 212-223.
- Saleh, K., et al., *The EuroSTARRS airborne campaign in support of the SMOS mission: First results over land surfaces*. Int. J. Remote Sens., 2004. 25(1): p. 177-194.



Schneeberger, K., et al., *Topsoil Structure Influencing Soil Water Retrieval by Microwave Radiometry*. Vadose Zone Journal, 2004. 3: p. 1169-1179.

Soulat, F., et al., *Sea state monitoring using coastal GNSS-R*. Geophysical Research Letters, 2004. 31(21).

Souyris, J.C. and Y.H. Kerr, *Foreword*. Geoscience and Remote Sensing, IEEE Transactions on, 2004. 42(10): p. 2023-2024.

van de Griend, A. and J.-P. Wigneron, *The Factor b as a Function of Frequency, Polarization and Canopy Type*. IEEE Trans. Geosc. Remote Sens., 2004. 42(4).

van de Griend, A.A. and J.-P. Wigneron, *On the Measurement of Microwave Vegetation Properties: Some Guidelines for a Protocol*. IEEE Trans Geosci.Remote Sens., 2004. 42(10): p. 2277-2289.

Waldteufel, P., et al., *Ionospheric effects for L-Band 2-D interferometric radiometry*. IEEE Trans. Geosci. Remote Sens., 2004. 42(1): p. 105-118.

Waldteufel, P., J.-L. Vergely, and C. Cot, *A cardioid model for multi-angular radiometric observations*. IEEE Trans Geosci.Remote Sens., 2004. 42: p. 1059-1063.

Wigneron, J.-P., et al., *Soil moisture retrievals from biangular L-band passive microwave observations*. Geoscience and Remote Sensing Letters, IEEE, 2004. 1(4): p. 277-281.

Wigneron, J.-P., et al., *Characterizing the dependence of vegetation model parameters on crop structure, view angle and polarization at L-Band*. IEEE Trans. Geosc. Remote Sens., 2004. 42(2): p. 416-425.

2005

Balme, M., S. Galle, and T. Lebel, *Démarrage de la saison des pluies au Sahel : variabilité à des échelles hydrologique et agronomique*. Sécheresse, 2005. 16: p. 15-22.

Camps, A., et al., *The impact of antenna pattern frequency dependence in aperture synthesis microwave radiometers*. IEEE Transactions on Geoscience and Remote Sensing, 2005. 43(10): p. 2218-2224.

Camps, A., et al., *Polarimetric formulation of the visibility function equation including cross-polar antenna patterns*. IEEE Geoscience and Remote Sensing Letters, 2005. 2(3): p. 292-295.

Camps, A., et al., *Retrieving sea surface salinity with multiangular L-band brightness temperatures: Improvement by spatiotemporal averaging*. Radio Science, 2005. 40(2).

Camps, A., et al., *Performance of Sea Surface Salinity and Soil Moisture retrieval algorithms with different auxiliary datasets in 2-D L-band aperture synthesis interferometric radiometers*. IEEE T. Geosci. Remote., 2005. 43(5): p. 1-12.



- Camps, A., et al., *The Emissivity Of Foam-Covered Water Surface at L-Band:// Theoretical Modeling And Experimental Results From The Frog 2003 Field Experiment*. IEEE Transactions on Geoscience and Remote Sensing, 2005. 43(5): p. 925-937.
- Caudal, G., E. Dinnat, and J. Boutin, *Absolute Calibration of Radar Altimeters: Consistency with Electromagnetic Modeling*. Journal of Atmospheric and Oceanic Technology, 2005. 22: p. 771-781.
- Ceballos, A., et al., *Validation of ERS scatterometer-derived soil moisture data in the central part of the Duero Basin, Spain*. Hydrological Processes, 2005. 19(8): p. 1549-1566.
- Corbella, I., et al., *MIRAS End-to-End Calibration: Application to SMOS L1 Processor*. IEEE T. Geosci. Remote., 2005. 43(5): p. 1126-1134.
- Corbella, I., et al., *Analysis of correlation and total power radiometer front-ends using noise waves*. IEEE T. Geosci. Remote, 2005. 43(11): p. 2452-2459.
- Delcroix, T., et al., *Time and space scales for sea surface salinity in the tropical oceans*. Deep-Sea Research 2005. 52(5): p. 787-813.
- Kroger, J., et al., *Decadal variability of shallow cells and equatorial sea surface temperature in a numerical model of the Atlantic*. Journal of Geophysical Research-Oceans, 2005. 110(C12).
- Le Hégarat-Masclé, S., C. Otlé, and C. Guérin, *Land cover change detection at coarse spatial scales based on iterative estimation and previous state information*. Rem. Sens. Environ., 2005. 95: p. 464-479.
- Le Vine, D., et al., *Comparison of model predictions with measurements of galactic background noise at L-band*. IEEE Geoscience and Remote Sensing, 2005. 43(9): p. 2018-2023.
- Maes, C., J. Picaut, and S. Belamari, *Importance of the Salinity Barrier Layer for the buildup of El Niño*. Journal of Climate, 2005. 18(1): p. 104-118.
- Martinez-Fernandez, J. and A. Ceballos, *Mean soil moisture estimation using temporal stability analysis*. Journal of Hydrology, 2005. 312(1-4): p. 28-38.
- Merlin, O., et al., *A Combined Modeling and Multi-Spectral/Multi-Resolution Remote Sensing Approach for Disaggregation of Surface Soil Moisture: Application to SMOS Configuration* IEEE Trans. Geosc. Remote Sens., 2005. 43(7): p. 2036-2050.
- Olioso, A., et al., *Future directions for advanced evapotranspiration modeling: assimilation of remote sensing data into crop simulation models and SVAT models*. Irrigation and Drainage Systems, 2005. 19: p. 377-412.
- Picard, B. and E. Anterrieu, *Comparizon of regularized inversion methods in Synthetic Aperture Imaging Radiometry*. IEEE Geoscience and Remote Sensing, 2005. 43(2): p. 218-224.
- Rivalland, V., et al., *Transpiration and CO₂ fluxes of a pine forest: modelling the undergrowth effect*



Annales Geophysicae, 2005. 23: p. 291-304.

Saleh, K., et al., *A forest geometric description of a maritime pine forest suitable for discrete microwave models*. IEEE Trans. Geosc. Remote Sens., 2005. 43: p. 2024-2035.

Shi, J.C., et al., *A Parameterized Multi-Frequency-Polarization Surface Emission Model*. IEEE Trans. Geosc. Remote Sens., 2005. 43(12): p. 2821-2831.

Vall-Ilossera, M., et al., *SMOS REFLEX 2003, L band emissivity Characterisation of Vineyards*. IEEE Trans Geosci.Remote Sens., 2005. 43(5): p. 973-982.

2006

Boutin, J. and N. Martin, *ARGO upper salinity measurements: perspectives for L-band radiometers calibration and retrieved sea surface salinity validation*. Geoscience and Remote Sensing Letters, 2006. 3 (2): p. 202-206.

Camps, A., et al., *Considerations about antenna pattern measurements of 2-D aperture synthesis radiometers*. IEEE Geoscience and Remote Sensing Letters, 2006. 3(2): p. 259-261.

Coudert, B., et al., *Multi-objective calibration of a dual source SVAT model : contribution of thermal infrared remote sensing data*. Journal of Hydrometeorology, 2006. 7(3): p. 404-420.

de Rosnay, P., et al., *SMOSREX: A Long Term Field Campaign Experiment for Soil Moisture and Land Surface Processes Remote Sensing*. Remote Sens. Env., 2006. 102: p. 377-389.

Della Vecchia, A., et al., *Simulating L Band emission of coniferous forests using a discrete model and a detailed geometrical representation*. IEEE Geosc. Remote Sens. Letters, 2006. 3(3): p. 364-368.

Holmes, T.R.H., et al., *A new parameterization of the Effective Temperature for L-band Radiometry*. Geophys. Res. Letters, 2006. 33(L07405): p. doi 10.1029/2006GL025724.

Ivchenko, V.O., et al., *A quick response of the equatorial ocean to Antarctic sea ice/salinity anomalies*. J. Geophys. Res., 2006. 111(C10): p. C10018, 10.1029/2005JC003061.

Kerr, Y.H., *Soil moisture from Space: Where are we?* Hydrogeology Journal, 2006: p. DOI: 10.1007/s10040-006-0095-3.

Macelloni, G., et al., *DOMEX 2004: An Experimental Campaign at Dome-C Antarctica for the Calibration of Spaceborne Low-Frequency Microwave Radiometers* IEEE Trans. Geosc. Remote Sens., 2006. 44(10 part 1): p. 2642 - 2653.

Machin, F., A. Hernandez-Guerra, and J.L. Pelegri, *Mass fluxes in the Canary Basin*. Progress in Oceanography, 2006. 70(2-4): p. 416-447.

Maes, C., et al., *Observed correlation of surface salinity, temperature and barrier layer at the eastern edge of the western Pacific warm pool* Geophysical Research Letters, 2006. 33(6): p. L06601.



- Marrero-Diaz, A., et al., *Analytic salinity-temperature relations for the upper-thermocline waters of the eastern North Atlantic subtropical gyre*. *Scientia Marina*, 2006. 70(2): p. 167-175.
- Merlin, O., et al., *Assimilation of the disaggregated microwave soil moisture into hydrological modeling using coarse resolution meteorological data: a case study based on the Monsoon '90 data*. *Journal of Hydrometeorology*, 2006. 7(6): p. 1308-1322.
- Merlin, O., et al., *A downscaling method for distributing surface soil moisture within a microwave pixel: application to Monsoon '90 data*. *Rem. Sens. Environ.*, 2006. 101: p. 379-389.
- Pellarin, T., Y.H. Kerr, and J.-P. Wigneron, *Global simulation of brightness temperatures at 6.6 and 10.7 GHz over land based on SMMR data set analysis*. *IEEE Trans Geosci.Remote Sens.*, 2006. 44(9): p. 2492-2505.
- Portabella, M. and A. Stoffelen, *Scatterometer backscatter uncertainty due to wind variability*. *IEEE Transactions on Geoscience and Remote Sensing*, 2006. 44(11): p. 3356-3362.
- Sabia, R., et al., *Impact on Sea Surface Salinity Retrieval of Different Auxiliary Data within the SMOS mission*. *IEEE Transactions on Geoscience and Remote Sensing*, 2006. 44(10): p. 2769-2778.
- Saleh, K., et al., *Impact of rain interception by vegetation and mulch on the L-band emission of natural grass*. *Rem. Sens. Environ.*, 2006. 101(1): p. 127-139.
- Saleh, K., et al., *Semi-empirical regressions at L-Band applied to surface soil moisture retrievals over grass*. *Remote Sens. Environ.*, 2006. 101: p. 415-425.
- Shi, J.C., et al., *A Physical Based Estimation of Bare Surface Soil Moisture with the Passive Radiometers*. *IEEE Trans. Geosc. Remote Sens.*, 2006. 44(11): p. 3145-3153.
- Stoffelen, A. and M. Portabella, *On Bayesian scatterometer wind inversion*. *IEEE Transactions on Geoscience and Remote Sensing*, 2006. 44(6): p. 1523-1533.
- Torres, F., et al., *Denormalization of visibilities for in-orbit calibration of interferometric radiometers*. *IEEE T. Geosci. Remote*, 2006. 44(10): p. 2679-2686.
- 2007**
- Anterrieu, E., *On the reduction of the reconstruction bias in Synthetic Aperture Imaging Radiometry*. *IEEE Trans. Geosc. Remote Sens.*, 2007. 45(3): p. 592-601.
- Coudert, B. and C. Otlé, *An improved SVAT model calibration strategy based on the optimisation of surface temperature temporal dynamics*. *Geophys. Res. Lett.*, 2007. 34(L04402): p. doi:10.1029/2006GL028778.
- Escorihuela, M.J., et al., *A Simple Model of the Bare Soil Emission at L- Band* *IEEE Trans. Geosc. Remote Sens.*, 2007. 45(7): p. 1978-1987.
- Escorihuela, M.-J., et al., *Influence of Bound-Water Relaxation Frequency on Soil Moisture Measurements*. *IEEE Geoscience and Remote Sensing*, 2007. 45(12): p. 4067-4076.



Escorihuela, M.-J., et al., *A Simple Model of the Bare Soil microwave emission at L- Band* IEEE Geosci. Remote Sens., 2007. 45(7): p. 1978-1987.

Kerr, Y.H., *Soil moisture from space: Where are we?* Hydrogeology Journal, 2007. 15: p. 117-120.

Michel, S., et al., *Sea surface salinity variability from a simplified mixed layer model of the global ocean.* Ocean Sci. Discuss, 2007. 4: p. 41-106.

Muñoz Sabater, J., et al., *From near-surface to root-zone soil moisture using different assimilation techniques.* J. Hydrometeorol., 2007. 8(2): p. 194-206.

Nogues, O., et al., *A GPS-reflections receiver that computes Doppler/delay maps in real time.* IEEE Transactions on Geoscience and Remote Sensing, 2007. 45(1): p. 156-174.

Philipps, S., C. Boone, and E. Obligis, *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, 2007. 24(2): p. 255-269.

Reul, N., et al., *Modelling Sun glitter at L-band for the Sea Surface Salinity remote sensing with SMOS.* IEEE Transactions on Geoscience and Remote Sensing, 2007. 45(7): p. 2073-2087.

Reverdin, G., et al., *Surface salinity measurements - COSMOS 2005 experiment in the Bay of Biscay.* Journal of Atmospheric and Oceanic Technology, 2007. 24(9)(doi: 10.1175/JTECH2079.1): p. 1643-1654.

Saleh, K., et al., *Estimates of surface soil moisture under grass covers using L-band radiometry.* Remote Sens Env., 2007. 109: p. 42-53.

Talone, M., et al., *Surface topography and mixed-pixel effects on the simulated L-band brightness temperatures.* IEEE T. Geosci. Remote, 2007. 45(7): p. 1996-2003.

Wagner, W., et al., *Operational Readiness of Microwave Remote Sensing of Soil Moisture for Hydrologic Applications.* Nordic Hydrology, 2007. 20(1, doi: 10.2166/nh.2007.029): p. 1-20.

Wagner, W., et al., *Soil moisture from operational meteorological satellites.* Hydrogeology Journal, 2007. 15(1): p. 121-131.

Wigneron, J.-P., et al., *L-band Microwave Emission of the Biosphere (L-MEB) Model: description and calibration against experimental data sets over crop fields.* Rem. Sens. Environ., 2007. 107 p. 639–655.

Zine, S., et al., *Issues about retrieving sea surface salinity in coastal areas from SMOS data.* IEEE Transactions on Geoscience and Remote Sensing, 2007. 45(7): p. 10.1109/TGRS.2007.894934.

2008



- Barré, H., B. Duesmann, and Y.H. Kerr, *SMOS : The Mission and the System*. IEEE Geosci. Remote Sens., 2008. 46(3): p. 587-594.
- Bosch-Lluis, X., et al., *PAU/RAD: Design and preliminary calibration results of a new L-band pseudo-correlation radiometer concept*. Sensors, 2008. 8(7): p. 4392-4412.
- Brown, M.A., et al., *SMOS Calibration*. IEEE T. Geosci. Remote 2008. 46(3): p. 646 - 658
- Camps, A., et al., *Determination of the sea surface emissivity at L-band and application to SMOS salinity retrieval algorithms: Review of the contributions of the UPC-ICM*. Radio Science, 2008. 43(3).
- Camps, A., et al., *Angular and Radiometric Resolution of Y-Shaped Nonuniform Synthetic Aperture Radiometers for Earth Observation*. IEEE Geoscience and Remote Sensing Letters, 2008. 5(4): p. 793-795.
- Camps, A., et al., *Improved image reconstruction algorithms for aperture synthesis radiometers*. IEEE Transactions on Geoscience and Remote Sensing, 2008. 46(1): p. 146-158.
- Cardellach, E. and A. Rius, *A new technique to sense non-Gaussian features of the sea surface from L-band bi-static GNSS reflections*. Remote Sensing of Environment, 2008. 112(6): p. 2927-2937.
- Delwart, S., et al., *SMOS Validation and the COSMOS campaigns*. IEEE Geosci. Remote Sens., 2008. 46(3): p. 695-704.
- Escorihuela, M.J., et al., *Sun glint observations over land from ground and airborne L-band radiometer data*. Geophysical Research Letters, 2008. 35(20).
- Fraile-Nuez, E., et al., *Mass transport in the Bay of Biscay from an inverse box model*. Journal of Geophysical Research-Oceans, 2008. 113(C6).
- Gabarro, C., et al., *The use of a semi-empirical emissivity model for a rough estimation of sea surface salinity from an airborne microwave radiometer*. Scientia Marina, 2008. 72(2): p. 329-336.
- Gabarró, C., et al., *The use of a semi-empirical emissivity model for a rough estimation of sea surface salinity from an airborne radiometer*. Sci. Mar., 2008. 72(2): p. 329-336.
- Grant, J.P., et al., *Calibration of the L-MEB Model over a Coniferous and a Deciduous Forest*. IEEE Geosci. Remote Sens., 2008. 46(3): p. 808-818.
- Gruhler, C., et al., *Evaluation of AMSR-E soil moisture product based on ground measurements over temperate and semi-arid regions*. Geophys. Res. Lett., 2008. 35(doi:10.1029/2008GL033330, L10405,).
- Kerr, Y.H. and D. Le Vine, *Foreword to the Special Issue on the Soil Moisture and Ocean Salinity (SMOS) Mission*. IEEE Geosci. Remote Sens., 2008. 46(3): p. 583-586.



Marchan-Hernandez, J.F., et al., *PAU/GNSS-R: Implementation, performance and first results of a real-time Delay-Doppler Map reflectometer using global navigation satellite system signals*. *Sensors*, 2008. 8(5): p. 3005-U1.

Martin-Neira, M., et al., *AMIRAS - An airborne MIRAS demonstrator*. *IEEE Transactions on Geoscience and Remote Sensing*, 2008. 46(3): p. 705-716.

Merlin, O., et al., *A Simple methods for downscaling passive microwave soil moisture for hydrologic application*. *IEEE Geosci. Remote Sens.*, 2008. 46: p. 786-796.

Mialon, A., et al., *Flagging the topographic impact on the SMOS signal*. *IEEE Geosci. Remote Sens.*, 2008. 46(3): p. 689-694.

Monerris, A., et al., *Assessment of the topography impact on microwave radiometry at L-band*. *Journal of Geophysical Research-Solid Earth*, 2008. 113(B12).

Mourre, B., et al., *Surface salinity response to changes in the model parameters and forcings in a climatological simulation of the eastern North-Atlantic Ocean*. *Ocean Modelling*, 2008. 23(1-2): p. 21-32.

Plaza, F., E. Fraile-Nuez, and M. Vargas-Yanez, *Rising temperature and salinity fields to the north of the Almeria-Oran Front during the past decade*. *Journal of Geophysical Research-Oceans*, 2008. 113(C3).

Reul, N., et al., *Earth Viewing L-Band Radiometer sensing of Sea Surface Scattered Celestial Sky Radiation. Part II: Application to SMOS*. *IEEE Transactions on Geoscience and Remote Sensing*, 2008. 46(3): p. doi:10.1109/TGRS.2007.914804.

Tenerelli, J., et al., *Earth Viewing L-Band Radiometer sensing of Sea Surface Scattered Celestial Sky Radiation. Part I: General characteristics*. *IEEE Transactions on Geoscience and Remote Sensing*, 2008. 46(3): p. doi:10.1109/TGRS.2007.914803.

Vargas-Yanez, M., et al., *Warming trends and decadal variability in the Western Mediterranean shelf*. *Global and Planetary Change*, 2008. 63(2-3): p. 177-184.

Wagner, W., et al., *Temporal stability of soil moisture and radar backscatter observed by the advanced Synthetic Aperture Radar (ASAR)*. *Sensors*, 2008. 8(2): p. 1174-1197.

Wigneron, J.-P., et al., *Estimating the effective temperature at L-band as a function of soil properties*. *IEEE TGRS SMOS special issue*, 2008. 46(3): p. 797-807.

Zine, S., et al., *Overview of the SMOS Sea Surface Salinity Prototype Processor*. *IEEE Transactions on Geoscience and Remote Sensing*, 2008. 10.1109/TGRS.2008.915543: p. 621 - 645.



Magazine article

Font, J., Y. Kerr, and M. Berger, *Measuring Ocean Salinity from Space: the European Space Agency's SMOS Mission*, in *Backscatter*. 2000. p. 17-19.

Berger, M., et al., *Measuring Ocean Salinity with ESA's SMOS Missionn*, in *ESA Bulletin*. 2002. p. 113-121.



Berger, M., et al., *Measuring soil moisture with ESA's SMOS mission: Advancing the Science*, in *ESA Bulletin*. 2003. p. 40-45.

Calvin, J., *Participación española en la misión SMOS*, in *Infoespacio*. 2004.

Jackson, T.J., et al., *Towards Integrated Global Soil Moisture Observations*, in *GEWEX News*. 2005. p. 8-9.

Kerr, Y., *SMOS Un Baromètre pour l'humidité des sols (Measuring soil moisture)*, in *CNES MAG*. 2005. p. 40-41.

Kerr, Y., *Measuring soil moisture and ocean salinity from space: the SMOS mission.*, in *Lettre MEDIAS*. 2005. p. 26-28.

Reverdin, G., et al., *Surface salinity drifters during the 2005 COSMOS experiment in the Gulf of Biscay*, in *2nd Coriolis newsletter*. 2006. p. 10-11.

Reports

1988-1995

Kerr, Y.H., *Study of African Arid Regions Using SMMR Data*. 1988, Jet Propulsion Laboratory: Pasadena, California.



Bernard, R., et al., *Multi-frequency Imaging Microwave Radiometer : Instrument Panel report*. 1990. p. 39.

Calvet, J.-C. and Y.H. Kerr, *Utilisation des micro-ondes passives sur la forêt amazonienne*. 1991. p. 50.

Kerr, Y.H. and P. Thibaut, *MIRAS WP 1110 Scientific Requirements*. 1994.

Chanzy, A., et al., *Téledétection micro-ondes passives : utilisation combinée de plusieurs configurations de mesure pour l'estimation des paramètres de surface des sols nus et de la végétation*. 1995. p. 28 p.

1996

Font, J., et al., *Modest Resolution Radar for Radar/Radiometer Applications*. 1996, ESYS., 70 p.

Goutoule, J.M., et al., *MIRAS Microwave radiometry critical technical development*. 1996, MMS: TOULOUSE.

Kerr, Y.H., *Modest resolution radar for radar radiometry applications*. 1996, CESBIO: Toulouse.

1997

Le Vine, D.M. and M. Kao, *Effects of Faraday rotation on Microwave Remote Sensing from Space at L-Band*, in *IEEE*. 1997.

1998

Kerr, Y.H., *The SMOS Mission: MIRAS on RAMSES. A proposal to the call for Earth Explorer Opportunity Mission*. 1998, CESBIO: Toulouse (F).

1999

Drange, H., P. Schlüssel, and M. Srokosz, *Study of critical requirements for ocean salinity retrieval using a low frequency microwave radiometer*. 1999, NERSC: Bergen. p. 65.

Martin-Neira, M. and Q. Garcia, *Pol Switching: Switching scheme for single channel polarimetric aperture synthesis radiometers*. 1999, ESA-ESTEC: Noordwijk (NL).

2000

Dejus, M., *Modélisation d'un cornet de Potter pour l'ONERA dans de cadre du projet SMOS*. 2000, CNES DTS/AE/TTL/AN: Toulouse France.

Kerr, Y.H. and P. Bahurel, *Algorithmes et chaînes de traitements SMOS (Soil Moisture and Ocean Salinity), et modélisation opérationnelle appliquée à l'océanographie (MERCATOR)*. 2000, CNRS: Toulouse (F).



Kerr, Y.H. and P. Waldteufel, *Arguments for band protection*. 2000, CESBIO: Toulouse (F).

Kerr, Y.H., et al., *SMOS Campaigns Requirements*. 2000, CESBIO: Toulouse (F).

Kerr, Y.H., et al., *Description of the Soil Moisture and Ocean Salinity Mission*. 2000, European Union: Brussels?

Mathiaud, S., *Extraction de l'humidité de surface à partir des données SMOS: cas des pixels hétérogènes*. 2000, ENSTA: Paris (F).

Pardé, M., *Estimation de la dépendance angulaire des paramètres micro-ondes des cultures*. 2000, Univ. Paris 7: Paris (F).

Simmonds, L., *Study on soil moisture retrieval by a future space-borne earth observation mission*. 2000, Univ. of Reading: Reading (UK).

Waldteufel, P., *Introducing calibration issues Note to the SAG*. 2000, IPSL/CETP: Paris.

Waldteufel, P., *Spatial resolution issues for SMOS*. 2000, IPSL/CETP: Paris.

Waldteufel, P., *SMOS : vicarious calibration issues*. 2000, CETP/IPSL: Paris (F).

Waldteufel, P., *Atmosphere and Faraday effects: Note to the SAG*. 2000, CETP/IPSL: Paris (F).

Waldteufel, P. and Y.H. Kerr *First considerations on the possibility to perform SMOS calibration on deep sky*. 2000, CETP/CESBIO: Toulouse.

2001

Bayle, F., *MIRAS demonstrator, Avignon campaign test report*. 2001, ASTRIUM: Toulouse France.

Braud, I., *Numerical study of the relationship between surface and root zone moisture content using a physically-based model of heat and water exchanges between the soil, the vegetation and the atmosphere*. 2001, LTHE: Grenoble.

Drinkwater, M.R., *SMOS Vicarious Calibration: Draft definition of Vicarious Calibration*. 2001, ESA/ESTEC: Noordwijk.

ESA/ESTEC, *SYSTEM REQUIREMENTS DOCUMENT FOR THE EARTH EXPLORER SOIL MOISTURE AND OCEAN SALINITY MISSION*. 2001, ESA/ESTEC: Noordwijk (NL).

Eymard, L., et al., *The Multifrequency Imaging Microwave Radiometer*. 2001, ESA/ESTEC: Noordwijk, NL.

Floury, N., *Sky noise, Perturbations of a radiometric L-Band measurement*. 2001, ESA/ESTEC: Noordwijk (NL).



Jong, Y.d., *Equation of the Radiometric Sensitivity for MIRAS*. 2001, ESA/ESTEC: Noordwijk (NL).

Kerr, Y.H. and P. Waldteufel, *Selection of a baseline configuration for SMOS*. 2001, CESBIO: Toulouse France.

Kerr, Y.H. and P. Waldteufel, *SMOS Vicarious calibration: Sun and Moon options and requirements*. 2001, CNRS: Toulouse (F).

Kerr, Y.H. and P. Waldteufel, *SMOS Mission: Science report Phase A*. 2001, CESBIO: Toulouse.

Kerr, Y.H. and P. Waldteufel, *First Sketch of what could be the SMOS Processing scheme*. 2001, CESBIO: Toulouse.

Kerr, Y.H., P. Waldteufel, and M. Berger, *Mission Objectives and Scientific Requirements of the Soil Moisture and Ocean Salinity (SMOS) Mission*. 2001, ESA :ESTEC: Noordwijk (NL).

Le Vine, D.M. and N. Skou, *Radiometric calibration : terms and definitions*. 2001, TUD: Lyngby Denmark. p. 2.

Lopez-Baeza, E. and e. al., *EURO - STARRS: A campaign in support of the SMOS mission, Draft Experimental Plan*. 2001, University of Valencia: Valencia (SP).

Martin-Neira, M., A. Martin-Polegre, and S. Ribo, *Introduction to two-dimensional aperture synthesis microwave radiometry for earth observation : polarimetric formulation of the visibility function*. 2001, ESA-ESTEC: Noordwijk (NL).

Molines, J.M., et al., *Final report for tasks 2210, 2220 and 2230, in Scientific Requirements and Impact of Space Observation of Ocean Salinity for Modeling and Climate Studies*. 2001. p. 47.

Skou, N., *Brief note on the issue of avoiding Faraday problems byretrieving salinity from the first Stokes parameter*. 2001, TUD: Copenhagen (DK).

Van den Hurk, B., *Development of a European Land Data: Assimilation System to predict floods and droughts*. 2001.

Waldteufel, P., *Criteria for defining the swath: Note to the SAG*. 2001, CETP/IPSL: Paris (F).

Waldteufel, P. and G. Caudal, *Pixel geometry for a tilted, space borne interferometric radiometer*. 2001, IPSL/CETP: Paris.

2002

Barnier, B., et al., *Scientific requirements and impact of space observations of ocean salinity for modelling and climate studies*. 2002, ESA contract 14273/00/NL/DC,.

Kameni, A., *Sequential assimilation of surface temperature and surface soil moisture*. 2002, Matmeca Bordeaux, france. p. 50.



Kerr, Y.H. and P. Waldteufel, *Note on Yaw steering or Track compensation for SMOS*. 2002, CESBIO-SA: Toulouse.

Lemaître, F., *Radiomètre de terrain 21 cm pour validation mission SMOS*, ONERA, Editor. 2002, ONERA: Toulouse France. p. 68.

Martín-Neira M.: TOS-ETP/2002.106.v2/MMN, -.S.-., 2pp, *Strip adaptive processing for SMOS mission*. 2002, ESA: Noordwijk, NL. p. 2.

Obligis, E., C. Boone, and S. Labroue, *Heterogeneities within the resolution cell and variable pixel size*, in *SMOS- Salinity Data Processing Study*. 2002, CLS. p. 19.

Waldteufel, P., *Pointing accuracy requirement*. 2002, CNRS IPSLSA: Verrières le Buisson.

Waldteufel, P., C. Cot, and F. Petitcolin, *Soil moisture retrieval for the SMOS mission, Retrieval Concept Document*. 2002, ACRI-ST: Sophia antipolis, France. p. 64.

2003

Boone, C., et al., *Salinity Data processing*. 2003, ESA contract 165/01/NL/SF.

Escorihuela, M.J., *Préparation de la mission SMOS: Extraction de l'humidité du sol à partir des données LEWIS*. 2003, CESBIO: Toulouse France. p. 42.

Hahne, A., *SMOS Operational scenario Summary*. 2003, ESA/ESTEC: Noordwijk The Netherlands. p. 4.

Kerr, Y. and P. Waldteufel, *Mission Products and Data processing requirements For SMOS*. 2003, CBSA: Toulouse. p. 44.

Kerr, Y. and P. Waldteufel, *Note on suggested archival scheme for SMOS' level 3 and higher* 2003, CBSA: Toulouse. p. 9.

Lopez-Baeza, E., et al., *EuroSTARRS: Campaign description*, in *EuroSTARRS, WISE, LOSAC: First results*. 2003, ESA-ESTEC: Noordwijk, NL. p. 37-50.

Ribó, S., *Research on image validation and signal processing of aperture synthesis radiometry*. 2003, European Space Agency: Noordwijk. p. 106.

Waldteufel, P. and J.-L. Vergely, *Soil moisture retrieval for the SMOS mission, Retrieval Algorithm Document*. 2003, ACRI-ST: Sophia antipolis. p. 93.

Zanifé, O.Z., et al., *Salinity Data Processing Study Final Report*, in *ESA contract 15165/01/NL/SF*. 2003, CLS-IFREMER-NERSC: Toulouse. p. .

2004

Bellone, O., *Implémentation d'un filtre de Kalman étendu dans le modèle d'interface sol-végétation-atmosphère ISBA*. 2004, ESIEE: Vélizy. p. 50.



- Berthelot, B., *Simulation des données SMOS en utilisant le simulateur SEPS*. 2004, Noveltis: Toulouse. p. 145.
- Berthelot, B., *annexe 1 statistiques sur les jeux de données ISBA 2004*, NOVELTIS: Toulouse. p. 100.
- Berthelot, B., *Inversion de l'humidité de surface en utilisant une approche neuronale*. 2004, Noveltis: Toulouse. p. 176.
- Boutin, J., et al., *Sea Surface Salinity Retrieval for SMOS Mission*. 2004, ESA study 16027/02/NL/GS.
- Gautier, R., *Préparation de la mission SMOS: génération de champs d'humidité en bande L ; influence du relief sur l'émissivité d'un pixel SMOS*, E.d.M. d'Albi, Editor. 2004, CESBIO: Toulouse.
- Kerr, Y., et al., *Analysis of topography effects*. 2004, CESBIO: Toulouse. p. 30.
- Kerr, Y. and P. Waldteufel, *SMOS Level 2 Processor High level requirements*. 2004, CBSA: Toulouse. p. 17.
- Longépé, N., *Assimilation variationnelle de données dans le modèle d'interface sol - végétation - atmosphère ISBA*. 2004, INSA-Rennes: Rennes, France.
- Peichl, M., et al., *Scientific inputs for the SMOS Level 1 Processor development*. 2004, DLR: Munich.
- Reul, N., et al., *Synergetic Aspects and Auxiliary Data Concepts for Sea Surface Salinity Measurements from Space*. 2004, ESA study 14505/03/NL/CB.
- Reul, N., et al., *Assessment of the validity ranges of microwave interaction models* 2004, ESA study 17335/03/NL/AG.
- Rijkeboer, M., *Effect of Sun glint on the measurements made by the Radiometer LEWIS*, CESBIO, Editor. 2004, CESBIO/ESA: Toulouse France. p. 26.
- Simmonds, L., et al., *Study on soil moisture retrieval by a future space-borne earth observation mission*. 2004, University of Reading: Reading, UK. p. 150.
- Wagner, W., et al., *Remote Sensing of Soil Moisture for Hydrologic Applications*. 2004, EUMETSAT SAF HYDROLOGY FRAMEWORK WORKING GROUP.
- Waldteufel, P., F. Cabot, and Y. Kerr, *SMOS geolocation Using natural targets* 2004, CBSA: Toulouse. p. 47.
- Waldteufel, P. and Y. Kerr, *Radiometric biases when using a wide beam radiometer*. 2004, CBSA: Toulouse. p. 24.



Waldteufel, P. and Y. Kerr, *SMOS Brightness temperature product for browsing 2004*, CBSA: Toulouse. p. 27.

2005

ACRI-ST, *ACRI, Reqts_L2Draft-2c.doc*. 2005, ACRI-ST: Sophia Antipolis.

Boutin, J., et al., *SMOS L2 Sea Surface Salinity Prototype Processor Development*. 2005, ESA contract 18933/05/NL/FF.

Kerr, Y. and P. Waldteufel, *SMOS Level 3 & 4 data User Model*. 2005, CBSA: Toulouse. p. 13.

Kerr, Y. and P. Waldteufel, *Summary note on SMOS calibration issues*. 2005, CBSA: Toulouse. p. 16.

Kerr, Y., et al., *Table Generation Requirement Document (TGRD) for the SMOS Level 2 Soil Moisture prototype Processor Development (SMPPD)*. 2005, CBSA-INRA-UoR-TVU: Toulouse France.

Kerr, Y., et al., *SMOS level 2 processor Soil moisture ATBD*. 2005, SM-ESL (CBSA): Toulouse. p. 92.

Novello, N., *Assimilation variationnelle de données dans le modèle d'interface ISBA-3L avec la procédure YAO*. 2005, CETP: Vélizy. p. 50.

Paumier, A., *Performances géométriques des Images SMOS*, in *DESS Ingénierie de l'Image*. 2005, CESBIO: Toulouse. p. 47.

Richaume, P., et al., *ECMWF data requirements for level 2 SM processor*. 2005, CBSA: Toulouse. p. 50.

Vergely, J.-L., *Soil moisture Retrieval Study*. 2005, ACRI-ST: Sophia Antipolis.

Waldteufel, P. and S. Zine, *Approximating the weighting function to be used in the SMOS L2 processor*. 2005, CBSA: Toulouse. p. 20.

2006

Coret, L., Y.H. Kerr, and P. Richaume, *Flagging the topographic impact on the SMOS signal*. 2006, CESBIO. p. 27.

Della Vecchia, A. and P. Ferrazzoli, *A large scale approach to estimate L band emission from forest covered surfaces*. 2006, Tor Vergata University: Rome.

Della Vecchia, A. and P. Ferrazzoli, *A large scale approach to estimate L band emission from forest covered surfaces*. 2006, Tor Vergata University. p. 35.

Dinnat, E., *Correcting for roughness effect on L-band brightness temperature in the scope of sea-surface salinity remote sensing: the active/passive synergy*, in *ESTEC Working Paper*. 2006, ESA. p. 53.



Ferrazzoli, P., *Generation of a maximum yearly LAI data base for forest*, S. ESL, Editor. 2006, Tor Vergata University. p. 10.

Michel, S., et al., *Sea Surface Salinity Variability from a Simplified Mixed Layer Model of the Global Ocean. Technical report 2006*, DOPS, IFREMER BP 70, 29280 Plouzane, France.

Richaume, P., et al., *SMOS L2 Processor Discrete Flexible Fine Grid definition*. 2006, CBSA: Toulouse. p. 43.

2007

Font, J., et al., *SMOS Sea Surface Salinity Level 2 Algorithm Theoretical Baseline Document-Issue 2*, in *Tech. Rep.*, 2007. 2007, European Space Agency, ESTEC.

2008

Reul, N., et al., *SMOS OS campaign. Scientific Data Analysis Report*. 2008, ESA, Noordwijk, The Netherlands, ESA ESTEC 1-4505/03/NL/Cb. p. 281p.

Thesis

Niclòs, R., *Determinación de la temperatura de la superficie del mar en el marco del proyecto SMOS*, in *Termodinàmica*. 2002, Universitat de València: València. p. 107.



Dinnat, E., *De la détermination de la salinité de surface des océans à partir de mesures radiométriques hyperfréquences en bande L*. 2003, Paris 6: Paris. p. 271.

Gabarró, C., *Study of salinity retrieval errors for the SMOS mission*, in *ICM*. 2004, UPC: Barcelona.

Picard, B., *Téledétection de la surface terrestre par un radiomètre imageur à synthèse d'ouverture : principes de mesure, traitement des données interférométriques et méthodes de reconstruction régularisées*, in *Thèse de l'Université de Versailles-Saint Quentin en Yvelines*. 2004, Université de Versailles-Saint Quentin en Yvelines: Velizy, France. p. 150.

Villarino, R., *Empirical determination of the sea surface emissivity at L-band: a contribution to ESA's SMOS Earth Explorer mission*, in *Teoria del Senyal i Comunicacions*. 2004, Universitat Politècnica de Catalunya: Barcelona. p. 170.

Merlin, O., *Synergies des observations multispectrales: applications en Hydrologie*, in *UFR PCA-SVT*. 2005, Paul Sabatier: Toulouse France. p. 145.

Philipps, S., *Restitution de la Salinité de surface à partir des mesures simulées SMOS*, in *Océanographie*. 2005, Paul Sabatier: Toulouse. p. 156.

Saleh, K., *Passive Microwave Radiometry at L band: applied to forests and natural vegetation*, in *Facultat de Física, Departament de Termodinàmica*. 2006, Universitat de València: Valencia (Spain). p. 272.



Newspaper articles, personal communications, audiovisual...

Kerr, Y.H., *A radiative transfer model for soil moisture estimation from SMMR data*. 1988: JPL, Pasadena, USA.

Kerr, Y.H., *Inversion de données SMMR sur la forêt amazonienne*. 1991: Toulouse, France.

Le Vine, D.M., et al., *Small scale fluctuations observed in L-band radiometer measurements of the ocean. Minutes of a Working Group Meeting*. 2003: Goddard Space Flight Center, Greenbelt, MD.

Reul, N., et al., *Téledetection de la salinité de surface par radiométrie micro-onde*. 2003, LOS-IFREMER: Plouzané.