



16th Specialist Meeting on
MICROWAVE RADIOMETRY
and
REMOTE SENSING

NOVEMBER, 16 - 20

DETAILED PROGRAM

Monday 16	Tuesday 17	Wednesday 18		Thursday 19		Friday 20
		14:00 - 14:30: Keynote (N. Ebuchi - JAXA EORC)		14:00 - 14:30: Keynote (W. Blackwell - NASA)		14:00 - 14:30: Keynote (C. Prigent - Paris Observatory/ESA CIMR-MAG)
	SINGLE SESSION	PARALLEL SESSION 1	PARALLEL SESSION 2	PARALLEL SESSION 1	PARALLEL SESSION 2	SINGLE SESSION
	14:00 - 16:30 MISSIONS	14:30 - 16:30 ADVANCED	14:30 - 16:30 CRYOSPHERE	14:30 - 16:30 LAND	14:30 - 16:30 OCEAN ATMOSPHERE	14:30 - 16:30 SENSORS
16:30 - 17:00 Welcome	16:30 - 17:00 break	16:30 - 17:00 break		16:30 - 16:45 break		16:30 - 17:00 break
17:00 - 19:00 MISSIONS	17:00 - 18:30 MISSIONS	17:00 - 17:45 ADVANCED	17:00 - 18:30 CRYOSPHERE	16:45 - 17:15 Golden Florin Award		17:00 - 18:30 SENSORS
				17:15 - 19:00 LAND	17:15 - 19:00 ATMOSPHERE E.M. MODELS	
	18:30 - 20:00 PSC MEETING	18:30 - 20:00 RFI meeting				18:30 - 19:00 farewell

ALL TIMES ARE REFERRED TO CET TIMEZONE (GMT+1)

Monday, November 16

16:30 – 17:00 Welcome

CURRENT AND FUTURE SATELLITE MISSIONS

Session Chairs: William Blackwell, Emanuele Santi

17:00 Evaluating new spectroscopy in the Met Office Observational Processing System using microwave satellite instruments
Emma Turner

17:15 Microwave Radiometry on MetOp-SG satellites: Development Status and Initial Performance Verification
Luca Salghetti Drioli, Ville Kangas, Ulf Klein, Alberto Graziani, Marc Loiselet, Graeme Mason

17:30 Entering a New Era of CubeSat Microwave Sounding: MicroMAS-2a On-orbit Results and Preparations for the NASA TROPICS Constellation Mission
William J. Blackwell

17:45 The MicroWave Sounding mission (MWS) of the EUMETSAT Polar System - Second Generation
Imke Krizek, Sabatino Di Michele, Jörg Ackermann, Maurizio De Bartolomei, Christophe Accadia, Paolo Colucci, Peter Schlüssel

18:00 The EUMETSAT Polar System - Second Generation (EPS-SG) Microwave Imager (MWI) and Ice Cloud Imager (ICI) missions
Vinia Mattioli, Christophe Accadia, Francesco De Angelis, Peter Schlüssel, Paolo Colucci, Alessio Canestri

18:15 Real-Time Detection and Filtering of Radio Frequency Interference On-board a Spaceborne Microwave Radiometer: The CubeRRT Mission
Joel Johnson

18:30 ICECUBE: demonstration of an 883 ghz radiometer for ice cloud remote sensing
Negar Ehsan, Brian Abresch, Eric Bryerton, Jaime Esper, Thomas Johnson, Paul Racette, Jeffrey Piepmeier, Dong Wu

18:45 Passive Microwave Atmospheric Sounder/Imager on a CubeSat Performing Global Observations for More than Two Years on Orbit: Temporal Experiment for Storms and Tropical Systems Demonstration (TEMPEST-D) Mission
Steven C. Reising, Todd C. Gaier, Shannon T. Brown, Christian D. Kummerow, Wesley Berg, V. Chandrasekar, Sharmila Padmanabhan, Boon H. Lim2, Cate Heneghan, Richard Schulte, Yuriy Goncharenko, C. Radhakrishnan, Matthew Pallas, Doug Laczkowski, Austin Bullard, Nancy Gaytan

Tuesday, November 17

CURRENT AND FUTURE SATELLITE MISSIONS

Session Chairs: Manuel Martin Neira, Nazareno Pierdicca

14:30 SMOS is ten years old but still going strong
Yann H. Kerr, Philippe Richaume, Arnaud Mialon, Ali Mahmoodi, Emma Bousquet, Nemesio Rodriguez-Fernandez, François Cabot, Maciej Miernecki, Ahmad Al Bitar, Cristina Vittucci, Jean-Pierre Wigneron, Mike Schwank, Kimmo Rautiainen, Klaus Scipal

14:45 10-years of SMOS measurements: towards 'climatic' applications
Maria Jose Escorihuela, Nemesio Rodriguez-Fernandez, Jennifer P. Grant, Paolo Ferrazzoli, Thierry Pellarin, Ahmad Albitar, T. Kaminski, M. Piles, L. Kaleschke, M. Leduc-Leballeur, G. Picard, G. Macelloni, M. Schwank, J. Boutin, P. de Rosnay, P. Quintana-Segui, J. Gaona, Yann H. Kerr

15:00 SMOS instrument calibration and level-1 processor performance after 10 years in orbit
Manuel Martin-Neira, Roger Oliva, Ignasi Corbella, Francesc Torres, Nuria Duffo, Israel Duran, Juha Kainulainen, Josep Closa, Albert Zurita, François Cabot, Ali Khazaal, Eric Anterrieu, Philippe Richaume, Jose Barbosa, Gonçalo Lopes, Joe Raúl Díez-García, Jorge Fauste, Antonio Turiel, Verónica González-Gambau, Raffaele Crapolicchio, Giovanni Macelloni, Marco Brogioni, Pierre Vogel, Martin Suess, Irene Cerro Herrero, Elena Checa Cortés

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Tuesday, November 17

15:15 Distributed L-band interferometry demonstration mission

*Francois Cabot, Eric Anterrieu, Thierry Amiot, Yann Kerr
Caujolle, Nicolas Jeannin*

15:30 A new L-band passive radiometer for Earth science and applications: the SMOS-HR mission

Nemesio Rodriguez-Fernandez, Eric Anterrieu, Bernard Rougé, Jacqueline Boutin, Ghislain Picard, Thierry Pellarin, M. Escorihuela, Olivier Merlin, Jean-Michel Morel, Francois Cabot, Thibaut Decoopman, Josiane Costeraste, Thierry Amiot, Ahmad

15:45 Preliminary system studies for SMOS-HR: a high-resolution SMOS follow-on

Eric Anterrieu, Nemesio Rodriguez-Fernandez, François Cabot, Philippe Richaume, Ali Khazaal, Yann Kerr, Jean-Michel Morel, Bernard Rougé, Miguel Colomb, Josiane Costerate, Thierry Amiot, Baptiste Palacin, Raquel Rodriguez-Suquet, Thibaut Decoopman, Romain Caujolle, Nicolas Jeannin

16:00 Spaceborne experiment Convergence: the vertical profile of atmospheric humidity retrieving by passive microwave methods

Eugene Pashinov, Victor Sterlyadkin

16:15 Microwave radiometer spectrometer MIRS in the space experiment convergence

Alexey V. Kuzmin, Tatyana O. Kozlova, Evgeny V. Pashinov, Ilya N. Sadovsky, Dmitry S. Sazonov, Alexander B. Selunsky, Victor V. Sterdyadkin

16:30 - 17:00 Technical break

Session Chairs: Frank Marzano, Catherine Prigent

17:00 Ocean and Sea Ice algorithm developments for the Copernicus Imaging Microwave Radiometer (CIMR)

Lise Kilic, Catherine Prigent, Carlos Jimenez, Craig Donlon

17:15 Orbit design for satellite swarm-based interferometric radiometers for super-resolution earth observation

Mark Lütznier, Thomas Jagdhuber, Adriano Camps, Hyuk Park, Roger Förstner, Markus Peichl, Jan Eilers

17:30 Microwave Radiometry in the 0.5-1.4 GHz range: An Emerging Technology for Earth Remote Sensing

Joel T. Johnson

17:45 Validation of Geolocation accuracy for millimetre and submillimetre-wave radiometers

Mario Papa, Frank Silvio Marzano, Nazzareno Pierdicca, Vinia Mattioli, Janja Avbelj, Francesco De Angelis, Mario Montopoli, Daniele Casella, Giulia Panegrossi

18:00 Atmospheric boundary layer observations for operational meteorology and climate

Marian Klein

18:15 MicroWave Imager for MetOp-SG: development status and Instrument verification

Tito Lupi, Walter di Nicolantonio, Andrea di Cintio, Fabio Tominetti, Carine Bredin, Christophe Malassingne, Christian Tabart, Emma Matarazzo, Nicola Gatti, Enrico Vetrano, Luca Salghetti Drioli, Salvatore d'Addio, Paolo Colucci

18:30 - 20:00 Permanent Steering Committee Meeting

Wednesday, November 18

VIRTUAL ROOM 1

KEYNOTE

14:00 JAXA-EORC -Present Status of AMSR2 on GCOM-W and Introduction to AMSR3 on GOSAT-GW

Naoto Ebuchi, Misako Kachi, Hideyuki Fujii, Takashi Maeda, Nodoka Ono, Kazuya Inaoka, Marehito Kasahara, and Yasushi Kojima

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ADVANCED TECHNIQUES FOR SYSTEMS AND SENSORS

Session Chairs: Niels Skou, Simone Pettinato

- 14:30** Triple collocation analysis for two-error correlated datasets: Quality assessment of SMOS data
V. Gonzalez-Gambau, A. Turiel, J. Martinez, E. Olmedo, C. Gabarro, C. Gonzalez-Haro, R. Oliva, M. Martin-Neira
- 14:45** Future high-performance spaceborne microwave radiometer systems
Niels Skou, Sten S. Søjbjerg, Steen S. Kristensen
- 15:00** Enhancing the spatial resolution of radiometer data using a multi-channel fusion technique
Matteo Alparone, Ferdinando Nunziata, Claudio Estatico, Maurizio Migliaccio
- 15:15** Digital IQ demodulation for interferometric radiometers
Ignasi Corbella, Manuel Martin-Neira, Roger Vilaseca, Albert Catalan, Francesc Torres
- 15:30** Synchronization of Radio Signals for the Unconnected L-band Interferometer Demonstrator (ULID)
Eric Anterrieu, François Cabot, Yann Kerr, Thierry Amiot, David Valat, Laurent Lestarquit
- 15:45** Refurbishment of HUTRAD System
Janne Lahtinen, Josu Uusitalo, Henri Servomaa, Sampo Salo, Huy Nguyen, Jörgen Pihlflyckt, Matti Vaaja, Kimmo Rautiainen, Jaan Praks, Juha Lemmetyinen
- 16:00** Multi-channel radiometric correction of the TOA brightness temperature for the effects of the mesh reflector
Marco Brogioni, Marion Leduc-Lebbaleur, Giovanni Macelloni, Giuseppe Addamo, Ada Vittoria Bosisio, Oscar Antonio Peverini, Giuseppe Virone, Walter Di Nicolantonio, Marco Grilli
- 16:15** Comparison of three high resolution real-time spectrometers for microwave ozone profiling instruments
Eric Sauvageat, Jonas Hagen, Mikko Kotiranta, Klemens Hocke, Mike Gomez, Gerald Neduloha, Axel Murk

16:30 - 17:00 Technical break

Session Chair: Giovanni Macelloni

- 17:00** High spectral resolution V-band digital correlating spectrometer for weather and climate applications
Aravind Venkatasubramony
- 17:15** Spatio-Temporal Resolution Enhancement for Geostationary Microwave Data
Igor Yanovsky, Jing Qin, Bjorn Lambrigtsen
- 17:30** An Effective Super-Resolution Reconstruction Method for Geometrically Deformed Image Sequences
Jing Qin, Igor Yanovsky

18:30 - 20:00 RFI MEETING

KEYNOTE

- 14:00 JAXA-EORC** - Present Status of AMSR2 on GCOM-W and Introduction to AMSR3 on GOSAT-GW
Naoto Ebuchi, Misako Kachi, Hideyuki Fujii, Takashi Maeda, Nodoka Ono, Kazuya Inaoka, Marehito Kasahara, and Yasushi Kojima

CRYOSPHERE

Session Chair: Francesco Montomoli

14:30 SMOS level 3 soil freeze and thaw processing and dissemination service*Kimmo Rautiainen, Juha Lemmetyinen, Juval Cohen, Jaakko Ikonen, Mwaba Hiltunen, Tuomo Smolander, Daria Stepanova, Timo Ryyppö, Mikko Moisander, Mike Schwank, Jouni Pulliainen, Antonio de la Fuente***14:45** Multi-year close-range microwave observations of a Winter-Landscape in the Swiss Alps*Reza Naderpour, Derek Houtz, Mike Schwank, Christian Mätzler, Andreas Wiesmann, Urs Wegmüller, Charles Werner***15:00** Boreal forest L-band observations*Anna Kontu, Juha Lemmetyinen, Kimmo Rautiainen, Jouni Pulliainen, Mike Schwank, Richard Kelly, Qinghuan Li***15:15** Validating a snow surface radiative transfer model between 89 and 243GHz using airborne observations over Arctic tundra*Kirsty Wivell, Melody Sandells, Nick Rutter, Stuart Fox, Chawn Harlow, Richard Essery, Jennifer Brooke, James Hocking***15:30** Estimating Arctic sea ice distribution from SMOS multi-incident angle brightness temperatures using unsupervised learning algorithms*Christoph Herbert, Adriano Camps, Mercedes Vall-Llossera***15:45** Passive Microwave Response of the Antarctic and Greenland Ice Sheets*Mustafa Aksoy, Pranjal Atrey, Prethiga Sugumar, John Bradburn***16:00** Results From The First Ultra-WideBand Microwave Radiometry Campaign in Antarctica*Marco Brogioni, Mark J. Andrews, Marion Leduc-Leballeur, Giovanni Macelloni, Francesco Montomoli, Joel T. Johnson, Kenneth C. Jezek, Alexandra Bringer, Leung Tsang, Lars Kaleschke, Stefano Urbini, Massimo Frezzotti, Caglar Yardim***16:15** Snowpack Remote Sensing using Wideband Long-Wavelength Microwave Radiometry*Maryam Salim, Mark J. Andrews, Roger De Roo, Joel T. Johnson, Alexandra Bringer, Kamal Sarabandi***16:30 - 17:00 Technical break**

Session Chair: Simonetta Paloscia

17:00 An optimal interpolation-based approach to combining passive microwave spaceborne retrievals of snow depth with in-situ snow depth measurements*Cezar Kongoli***17:15** A New Approach for Retrieving Sea Ice Concentration and Classifying Sea Ice Type Using Satellite Microwave Radiometers*Katherine Wentz, Carl Mears, Frank Wentz, Andrew Manaster***17:30** Sea Ice Observations with 0.5-2 GHz Microwave Radiometry as part of the MOSAiC Campaign*Joel Johnson, Oguz Demir***17:45** Global freeze/thaw data records using spaceborne L-band radiometers*Xiaolan Xu, Kimmo Rautiainen, Tuomo Smolander, Andreas Colliander***18:00** A coherent reflectivity model for layered media over an inhomogeneous half space for combined active and passive microwave remote sensing of polar ice sheet subsurface temperatures*Haokui Xu, Leung Tsang, Joel T. Johnson, Kenneth C. Jezek, Prasad Gogineni, Stephen J. Yan***18:15** A New Snow Wetness Retrieval Algorithm to Detect Greenland Ice Sheet Surface Melting using SMAP Microwave L-Band Radiometry*Mohammad Mousavi, Andreas Colliander, Dara Entekhabi, Joel Johnson, Julie Miller, Christopher Shuman, John Kimball***18:30 - 20:00 RFI MEETING**

KEYNOTE

14:00 NASA - Recent Advances in Small Satellite Constellations for Improved Microwave Atmospheric Sounding and Precipitation Monitoring
William J. Blackwell, Andrew Cunningham, James Eshbaugh, R. Vincent Leslie, Thomas Roy, and Nick Zorn

LAND (Soil & Vegetation)

Session Chairs: Leila Guerriero, Thomas Jagdhuber

14:30 Evaluation of the AMSR2 L2 Soil Moisture Product of JAXA on the Mongolian Plateau over seven years from 2012 to 2018
Ichiro Kaihotsu, Jun Asanuma, Kentaro Aida, Dambaravjaa Oyunbaatar, Misako Kachi

14:45 A long term and consistent soil moisture product from multisource passive microwave radiometer measurements
Hui Lu

15:00 Links between SMOS L-VOD over tropical forests and ecosystem functional properties
C. Vittucci, L. Guerriero, G. Vaglio Laurin, G. Tramontana, D. Papale

15:15 All-weather land surface temperature retrieval from microwave observations with an improved spatial resolution
Samuel Favrichon, Carlos Jimenez, Catherine Prigent

15:30 In-situ multifrequency dielectric measurements to improve soil permittivity models for radiometric observations of soil in the high latitudes
François Demontoux, TSAGUE, Wigneron, Kerr, Ruffié, Bonnaud, Fadel, Vigneras, Oyhenart, Bircher

15:45 On the use of penetration depth (PD_{MD}) in SMOS L2 data SMUDP2 ver. 650 on example of wild fire spot in Sweden, summer 2017
Wojciech Marczewski, Jan Słominski

16:00 Assessing vegetation water potential of winter wheat on field-scale by ground-based L-band radiometry
Thomas Jagdhuber, Francois Jonard, MarÃa Piles, Anke Fluhrer, David Chaparro, Thomas Meyer

16:15 Airborne multi-frequency microwave radiometric measurements in synergy with optical and SAR data for the retrieval of hydrological parameters
S. Pilia, F. Baroni, G. Fontanelli, A. Lapini, S. Paloscia, P. Pampaloni, S. Pettinato, E. Santi, L. Santurri, D. Tapete, F. Cigna

16:30 - 16:45 Technical break

16:45- 17:15 Golden Florin Award

Session Chair: Emanuele Santi

17:15 Time-dynamic vegetation absorption and scattering at L-band
Martin J Baur, Thomas Jagdhuber, Andrew F. Feldman, Dara Entekhabi

17:30 The effect of dew on L-Band emissions from a corn canopy
Avinash Sharma

17:45 Increasing the SMAP soil moisture spatial resolution by using SAR and machine learning
E. Santi, G. Fontanelli, S. Paloscia, P. Pampaloni, S. Pettinato, G. Ramat, L. Santurri, D. Tapete, F. Cigna

18:00 SMAP Measurements Show Water Movement in the Soil-Plant Continuum as Pulses
Andrew F. Feldman, Daniel J. Short Gianotti, Alexandra G. Konings, Pierre Gentine, Kaighin A. McColl, Ruzbeh Akbar, Guido D. Salvucci, Dara Entekhabi

18:15 NASA Soil Moisture Active Passive Mission Data Products Updates and Science and Applications Highlights
Dara Entekhabi

18:30 SMAP Validation Experiment 2019-2021 (SMAPVEX19-21): Detecting Soil Moisture under Temperate Forest Canopies
Andreas Colliander, Michael H. Cosh, Sidharth Misra, Laura Bourgeau-Chavez, Vicky Kelly, Simon Kraatz, Paul Siqueira, Alexandre Roy, Tarendra Lakhankar, Alexandra G. Konings, Natan Holtzman, Mehmet Kurum, Dara Entekhabi, Peggy O'Neill, Simon H. Yueh

18:45 High spatial resolution soil moisture mapping using L-band radiometry and small unmanned aerial systems
R. Carter, Eryan Dai, Albin J. Gasiewski, Aravind Venkitasubramony, Michael Hurowitz, Maciej Stachura, Jack Elston

KEYNOTE

14:00 NASA - Recent Advances in Small Satellite Constellations for Improved Microwave Atmospheric Sounding and Precipitation Monitoring
William J. Blackwell, Andrew Cunningham, James Eshbaugh, R. Vincent Leslie, Thomas Roy, and Nick Zorn

OCEANS - ATMOSPHERE

Session Chairs: Roger Lang, David Le Vine

14:30 Field radiometry measurements of the effective emissivity and complex dielectric constant of the sea surface
Sterlyadkin Victor V., Kuzmin A.V.

14:45 Studying the azimuthal dependence of the sea surface microwave emissions based on measurements at the Black Sea
Dmitry Sazonov, Alexey Kuzmin, Ilya Sadovsky

15:00 Copernicus Imaging Microwave Radiometer (CIMR) Benefits for the Copernicus Level 4 Sea Surface Salinity Processing Chain
Daniele Ciani, Rosalia Santoleri, Gian Luigi Liberti, Catherine Prigent, Craig Donlon, Bruno Buongiorno Nardelli

15:15 SMOS Sea Surface Salinity validation and oceanographic applications - a decadal compendium
Roberto Sabia, Nicolas Reul, Jacqueline Boutin, Antonio Turiel, Jean-Luc Vergely, Joe Tenerelli, Sebastien Guimbard, Manuel Arias

15:30 Active/Passive ocean wind vector measurements from the GPM core observatory
Alamgir Hossan, Maria Jacob, W. Linwood Jones

15:45 New L-band Debye Model Function for Salinity Retrieval
Roger Lang, Yiwen Zhou, Emmanuel Dinnat, David Le Vine

16:00 Spurious Signal in the SMAP Radiometer Fourth Stokes Parameter
David Le Vine, Yan Soldo, Emmanuel Dinnat

16:15 Profiling the atmospheric boundary layer at European scale in the context of the COST Action PROBE
Domenico Cimini

16:30 - 16:45 Technical break

16:45- 17:15 Golden Florin Award

ATMOSPHERE - ELECTROMAGNETIC THEORY/MODELS

Session Chairs: Vinia Mattioli, Domenico Cimini, Paolo Pampaloni

17:15 Sudden Stratospheric Warming over Antarctica: Detection and Study using the MTVZA-GY Microwave Radiometer onboard the new Russian Meteorological satellite Meteor-M No. 2-2
Mitnik L.M., Kuleshov V.P., Mitnik M.L., Cherniavsky G.M., Cherny I.V., Streltsov A.M.

17:30 Uncertainty of the water vapour ground observations by GPS, ground-based microwave radiometers, and RAOB collected in Alaska and Finland sites

Ermanno Fionda, Maria Cadeddu, Rosa Pacione, Vinia Mattioli

17:45 Comparing airborne sub-millimetre observations of ice clouds with model simulations

Stuart Fox

18:00 Estimating tropospheric extinction due to clouds and precipitation using sun-tracking microwave and millimeter-wave radiometers

Luca Milani, M. Biscarini, K. M. Magde, G.A. Brost, F.S. Marzano

18:15 GEMS-1 IOD on-orbit performance and prospects for constellation microwave radiometry

Albin J. Gasiewski, Michael A. Hurowitz, Brian T. Sanders, David W. Gallaher, Robert Belter, David Kraft, Roger Carter, Geoffrey Sasaki, Lavanya Periasamy, Richard McAllister, Frank McAllister, William L. Hosack

18:30 Retrieving the vertical total electron content to correct the faraday rotation angle in SMOS

Roselena Rubino, Nuria Duffo, Verónica González-Gambau, Ignasi Corbella, Francesc Torres, Manuel Martín-Neira

18:45 Multiple Frequencies in Microwave Remote Sensing of Soil Moisture Based on NMM3D Simulations of Vegetation

Weihui Gu, Huanting Huang, Leung Tsang, Andreas Colliander, Sinom Yueh

Friday, November 20

KEYNOTE

14:00 ESA - CIMR: the passive microwave satellite mission for Copernicus

C. Prigent, C. Jimenez, C. Donlon, the CIMR project, and the CIMR Mission Advisory Group

SENSOR CALIBRATION, RFI AND SPECTRUM MANAGEMENT

Session Chairs: Ada Bosisio, Marco Brogioni

14:30 Reconciling flagging strategies for multi-sensor satellite soil moisture climate data records

Mendy van der Vliet, Robin van der Schalie, Nemesio Rodriguez-Fernandez, Andreas Colliander, Wolfgang Preimesberger, Tracy Scanlon, Wouter Dorigo, and Richard de Jeu

14:45 Monitoring of arctic sea ice using the DTU L-BAND RADIOMETER EMIRAD: early results and rfi analysis

Steen Savstrup Kristensen, Sten Schmidl Sjøbjerg, Jan E. Balling, Niels Skou

15:00 Thermal Vacuum Cold Target for the Metop SG MicroWave Imager

Giuseppe Virone, Giuseppe Addamo, Oscar Antonio Peverini, Ada Vittoria Bosisio, Luca Valenziano, Nazzareno Mandolesi, Mario Zannoni, Riccardo Maggiora, Gianluca Dassano, Paolo Radaelli, Davide Rizzo, Veronica De Perini

15:15 A new metric for Radio Frequency Interference impact assessment for SMOS brightness temperature measurements

Raffaele Crapolichio, Raúl Díez García, Verena Rodriguez Gonzalez, Laura Benzan, François Cabot

15:30 Detection of RFI in Sentinel-3 (Surface Topography Mission) Microwave Radiometer data

Marie-Laure Frery, Mathilde Siméon, Pierre Féménias, Franck Borde

15:45 Microwave Radiometer Gain Characterization via Ensemble Analysis

John Bradburn, Mustafa Aksoy, Paul Racette

16:00 TRMM Microwave Imager Emissive Reflector Correction for GPM V07 Reprocessing

Alamgir Hossain, W Linwood Jones

Friday, November 20

16:15 Characterizing the UHF and L-Band RFI Environments in High Latitude Regions Using Observations from the Ultra-Wideband Microwave Radiometer (UWB RAD)

Mark Andrews, Joel Johnson, Alexandra Bringer, Marco Brogioni, Giovanni Macelloni

16:30 - 17:00 Technical break

Session Chairs: Andreas Colliander, Ed Kim

17:00 Analysis of Tipping-Curve Acceptance Criteria for Ground-Based Radiometer Calibration

George Brost

17:15 Impedance Mismatch Effects on the Calibration of Wideband Radiometers

Mark Andrews, Joel Johnson, Marco Brogioni, Giovanni Macelloni

17:30 Pre-launch Calibration Characterization of the NASA TROPICS Constellation Mission

R. Vincent Leslie, William J. Blackwell, Michael T. DiLiberto, James V. Eshbaugh, Andrew P. Cunningham, Idahosa A. Osaretin

17:45 Pre-Launch Performance of the Advanced Technology Microwave Sounder (ATMS) on the Joint Polar Satellite System-2 Satellite (JPSS-2)

Edward Kim, Vince Leslie, Joseph Lyu, Craig Smith, Idahosa Osaretin, Saji Abraham, Matt Sammons, Kent Anderson, James Fuentes, Mark Hernquist, Mike Landrum, Hu (Tiger) Yang, Quanhua (Mark) Liu, Ninghai Sun

18:00 SWIRP (Submm-Wave and long wave InfraRed Polarimeter); development and characterization of a sub-mm polarimeter for ice cloud investigations

Giovanni De Amici

18:15 Recent activities of the GPM Intercalibration Working Group (XCAL)

Rachael Kroodsma, Wesley Berg, Linwood Jones, Thomas Wilheit

18:30 Farewell

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