
Beijing, China
10-15 July 2016

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Jojene Santillan, Meriam Makinano-Santillan, Arthur Amora, Edsel Matt Morales, Linbert Cutamora, Lorie Cris Asube, Caraga State University

FR1-L11.2: SAR COHERENCE AND POLARIMETRIC INFORMATION FOR IMPROVING FLOOD MAPPING
Marco Chini, Luxembourg Institute of Science and Technology; Asterios Papastergios, Harokopio University; Luca Pulvirenti, CIMA Research Foundation; Nazzareno Pierdicca, Sapienza University of Rome; Patrick Matgen, Luxembourg Institute of Science and Technology; Issaak Parcharidis, Harokopio University

FR1-L11.3: CHARACTERISTICS AND TRENDS OF METEOROLOGICAL DROUGHT OVER CHINA FROM REMOTE SENSING PRECIPITATION DATASETS
Jing Lu, Li Jia, Chaolei Zheng, Jie Zhou, Mattijn van Hoek, Kun Wang, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences

FR1-L11.4: INTEGRATING LIDAR AND FLOOD SIMULATION MODELS IN DETERMINING EXPOSURE AND VULNERABILITY OF BUILDINGS TO EXTREME RAINFALL-INDUCED FLOOD HAZARDS
Jojene Santillan, Meriam Makinano-Santillan, Linbert Cutamora, Caraga State University

FR1-L11.5: POLARIMETRIC SAR DATA FOR IMPROVING FLOOD MAPPING: AN INVESTIGATION OVER RICE FLOODED FIELDS
Luca Pulvirenti, CIMA Research Foundation; Nazzareno Pierdicca, Sapienza University of Rome - DIET; Giuseppe Squicciarino, Giorgio Boni, CIMA Research Foundation; Marco Chini, Luxembourg Institute of Science and Technology, ERIN; Catia Benedetto, Italian Space Agency

FR2-L11: BIG DATA IN GEOSCIENCE

FR2-L11.1: BIG DATA ISSUES FOR REMOTE SENSING: VARIETY
Leland Pierce, The University of Michigan

FR2-L11.2: ACCELERATING BIG DATA PROCESSING CHAIN IN IMAGE INFORMATION MINING USING A HYBRID HPC APPROACH
Kuldeep Kurte, Ujwala Bhangale, Surya Durbha, Indian Institute of Technology, Bombay; Roger King, Nicolas Younan, Mississippi State University

FR2-L11.3: USE OF GEO-ONTOLOGY MATCHING TO MEASURE THE DEGREE OF INTEROPERABILITY
Ujwala Bharambe, Surya Durbha, Indian Institute of Technology, Bombay; Roger King, Nicolas Younan, Mississippi State University; Kuldeep Kurte, Indian Institute of Technology, Bombay

FR2-L11.4: IMPLICATIONS OF DATA PLACEMENT STRATEGY TO BIG DATA TECHNOLOGIES BASED ON SHARED-NOTHING ARCHITECTURE FOR GEOSCIENCES
Kwo-Sen Kuo, NASA Goddard Space Flight Center / Bayesics LLC; Amidu Oloso, NASA Goddard Space Flight Center / SSAI; Khoo Doan, ESSIC University of Maryland; Michael Rilee, Rilee Systems Technologies LLC; Thomas Clune, NASA Goddard Space Flight Center; Hongfeng Yu, University of Nebraska-Lincoln

FR2-L11.5: GPU-BASED NONLOCAL FILTERING FOR LARGE SCALE SAR PROCESSING
Gerald Baier, German Aerospace Center (DLR); Xiao Xiang Zhu, German Aerospace Center (DLR) and Technical University of Munich (TUM)
FR3-L11: INTERDISCIPLINARY TOPICS

FR3-L11.1: AUTOMATIC CLOUD AND CLOUD SHADOW DETECTION IN GF-1 WFV IMAGERY USING MULTIPLE FEATURES
Zhiwei Li, Huanfeng Shen, Huifang Li, Liangpei Zhang, Wuhan University

FR3-L11.2: RESEARCH ON MICROWAVE THERMAL EMISSION AT TYCHO AREA AND ITS GEOLOGICAL SIGNIFICANCE
Zhiguo Meng, Rui Zhao, Jilin University; Zhanchuan Cai, Macau University of Science and Technology; Jinsong Ping, Chinese Academy of Sciences; Zesheng Tang, Macau University of Science and Technology; Si Chen, Jilin University

FR3-L11.3: USING MULTIBEAM ACOUSTIC REMOTELY SENSED DATA TO INVESTIGATE SEABED SEDIMENT GRAIN SIZE CHARACTERISTICS
Zhi Huang, Justy Siwabessy, Geoscience Australia; Heqin Cheng, State Key Laboratory of Estuarine and Coastal Research, East China Normal University; Scott Nichol, Geoscience Australia

FR3-L11.4: REMOTE SENSING PRODUCTS VALIDATION ACTIVITY AND OBSERVATION NETWORK IN CHINA
Rui Jin, Xin Li, Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences; Mingguo Ma, Southwest University; Yong Ge, Institute of Geographic Sciences and National Resources Research, Chinese Academy of Sciences; Tao Che, Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences; Qing Xiao, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences; Kai Zhao, Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences; Xiaoqing Xin, Hulunber Grassland Ecosystem Observation and Research Station, Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences

FR3-L11.5: ORGANIZATIONAL BARRIERS TO ABSORPTIVE CAPACITY BUILDING FOR INTERNATIONAL TECHNOLOGY TRANSFER TO MALAYSIA
Patrick Van Der Heiden, MVI International B.V.; Christine Pohl, Universiti Teknologi Malaysia

FR4-L11: INLAND WATERS

FR4-L11.1: SAR/OPTICAL DATA FUSION FOR FLOOD DETECTION
Annarita D’Addabbo, Alberto Refice, Guido Pasquariello, Francesco Paolo Lovergine, CNR - ISSIA

FR4-L11.2: CREATING A WATER DEPTH MAP FROM SAR FLOOD EXTENT AND TOPOGRAPHY DATA
Patrick Matgen, Laura Giustarini, Marco Chini, Renaud Hostache, Melissa Wood, Luxembourg Institute of Science and Technology; Stefan Schlaffer, Vienna University of Technology

FR4-L11.3: COMPARISON OF IN SITU AND GRACE ESTIMATED GROUNDWATER IN THE CANADIAN PRAIRIES
Mohamed Y. A. Touré, Kalifa Goïta, Ramata Magagi, Université de Sherbrooke; Ally M. Touré, NASA Goddard Space Flight Center

FR4-L11.4: COMPARISON OF MODIS AND LANDSAT-8 RETRIEVALS OF CHLOROPHYLL-A AND WATER TEMPERATURE OVER LAKE TITICACA
Antonio Ruiz-Verdú, Juan Carlos Jiménez, University of Valencia; Xavier Lazzaro, IRD, UMR 207 BOREA, CP 53; Carolina Tenjo, Jesús Delegido, Marcela Pereira, José Antonio Sobrino, José Moreno, University of Valencia

FR4-L11.5: DETECTION OF INLAND WATER BODIES WITH HIGH TEMPORAL RESOLUTION – ASSESSING DYNAMIC THRESHOLD APPROACHES
Igor Klein, Ursula Gessner, Andreas Dietz, Patrick Leinenkugel, Stefan Dech, Claudia Kuenzer, German Aerospace Center (DLR) - German Remote Sensing Data Center
FR1-L12: COASTAL ZONES

FR1-L12.1: MONITORING WATERLINE CHANGES IN COASTAL WETLANDS IN THE YELLOW RIVER DELTA FROM LONG PERIOD REMOTE SENSING DATA
Kun Shang, China Aero Geophysical Survey and Remote Sensing Center for Land and Resources; Dong Zhao, Yisong Xie, State Key Laboratory of Remote Sensing Sciences, Institute of Remote Sensing and Digital Earth, CAS

FR1-L12.2: MEASUREMENTS OF INTERTIDAL FLAT TOPOGRAPHY USING A LONG-BASELINE AIRBORNE INTERFEROMETRIC SAR
Duk-Jin Kim, Changhyun Choi, Jungkyo Jung, Ki-mook Kang, Seung Hee Kim, Ji-Hwan Hwang, Seoul National University

FR1-L12.3: MONITORING OF THERMAL PLUME DISCHARGED FROM THERMAL AND NUCLEAR POWER PLANTS IN EASTERN CHINA USING SATELLITE IMAGES
Xiaoyan Dai, Fudan University; Zhongyang Guo, Yihui Chen, Pin Ma, East China Normal University; Chen Chen, Fudan University

FR1-L12.4: MAPPING SEAGRASS COVERAGE AND SPATIAL PATTERNS WITH HIGH SPATIAL RESOLUTION IKONOS IMAGERY
Ruiliang Pu, Susan Bell, University of South Florida

FR1-L12.5: CORRECTION OF SMOS DATA IN COASTAL AREA OF SOUTH CHINA SEA BASED ON LAND CONTAMINATION ANALYSIS
Li Yan, Li Qingxia, Lang Liang, Jin Rong, Zhiwei Chen, Huazhong University of Science and Technology

FR2-L12: SEA ICE

FR2-L12.1: CLOUD FILTERING WITH MERIS AND AATSR FOR MELT POND DETECTION ON ARCTIC SEA ICE
Henrik Marks, Georg Heygster, Larysa Istomina, University of Bremen

FR2-L12.2: SEA ICE CONCENTRATION ESTIMATION FROM SENTINEL-1 SYNTHETIC APERTURE RADAR IMAGES OVER THE FRAM STRAIT
Wiebke Aldenhoff, Anders Berg, Leif E. B. Eriksson, Chalmers University of Technology

FR2-L12.3: RETRIEVAL OF SEA ICE THICKNESS DURING MELT SEASON FROM IN SITU, AIRBORNE AND SATELLITE IMAGERY
Larysa Istomina, Christian Melsheimer, Marcus Huntemann, Institute of Environmental Physics, University of Bremen; Marcel Nicolaus, Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research; Georg Heygster, Institute of Environmental Physics, University of Bremen

FR2-L12.4: ANTARCTIC SEA-ICE FREEBOARD AND ESTIMATED THICKNESS FROM NASA'S ICESAT AND ICEBRIDGE OBSERVATIONS

FR2-L12.5: NUMERICAL SIMULATION OF AMSR2 HIGH FREQUENCY CHANNEL MEASUREMENTS OVER SEA ICE AND SEA WATER SURFACES
Elizaveta Zabolotskikh, Russian State Hydrometeorological University

FR3-L12: MARINE POLLUTION AND DISASTERS

FR3-L12.1: REMOTE SENSING OF MARINE DEBRIS
Delwyn Moller, Yi Chao, Remote Sensing Solutions; Nikolai Maximenko, University of Hawaii at Manoa
FR3-L12.2: HAZARDOUS AND NOXIOUS SUBSTANCE DETECTION BY HYPERSPECTRAL IMAGERY FOR MARINE POLLUTION APPLICATION
Pierre-Yves Foucher, Laurent Poutier, Philippe Deliot, ONERA - The French Aerospace Lab; Eldon Puckrin, Defence Research and Development Canada; Sophie Chataing, CEDRE - Centre de documentation, de recherche et d’expérimentations sur les pollutions accidentelles des eaux

FR3-L12.3: SUBSIDENCE AND SEA LEVEL RISE MEASUREMENTS FOR HOUSTON AND GALVESTON, TEXAS
Jonathan Epps, Texas A&M University; Shuhab Khan, University of Houston

FR3-L12.4: TRIAL OF VOLCANIC ASH DETECTION USING L-BAND SYNTHETIC APERTURE RADAR (SAR)
Manabu Watanabe, Tokyo Denki University; Masashi Sonobe, PASCO; Ryo Natsuaki, Shinichi Suzuki, Japan Aerospace Exploration Agency

FR3-L12.5: DETECTION AND STUDY OF THE POLAR LOWS OVER THE ARCTIC SEA ICE
Elizaveta Zabolotskikh, RSHU; Irina Gurvich, POI DVO RAS; Alexander Myasoedov, Bertrand Chapron, RSHU

FR4-L12: OIL SPILL

FR4-L12.1: STUDY ON OIL SPILLS IN THE NORTH SEA FORTIES FIELD OBSERVED IN TERRASAR-X AND TANDEM-X IMAGERY
Tong Jia, University of Chinese Academy of Sciences; Xiaoming Li, Key Laboratory of Digital Earth Science, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences; Domenico Velotto, German Aerospace Center (DLR) - Remote Sensing Technology Institute

FR4-L12.2: MODEL-BASED SEA SURFACE SCATTERING ANALYSIS FOR THE DWH OIL SPILL ACCIDENT CASE
Yu Li, Shenzhen Research Institute, The Chinese University of Hong Kong; Yuanzhi Zhang, University of Information Science and Technology; Jie Chen, Beihang University; Maurizio Migliaccio, Andrea Buono, Università di Napoli Parthenope

FR4-L12.3: OIL SPILL MONITORING ON WATER SURFACES BY RADAR L, C AND X BAND SAR IMAGERY: A COMPARISON OF RELEVANT CHARACTERISTICS
Pablo Marzialetti, Giovanni Laneve, Università di Roma ‘La Sapienza’

FR4-L12.4: A MULTITEMPORAL CHANGE DETECTION SOLUTION TO OIL SPILL MONITORING
Sicong Liu, Tongji University; Mingmin Chi, Yangxiu Zou, Fudan University; Alim Samat, Chinese Academy of Sciences

FR4-L12.5: ACTIVE LEARNING FOR IDENTIFYING MARINE OIL SPILLS USING 10-YEAR RADARSAT DATA
Yongfeng Cao, Guizhou Normal University; Linlin Xu, David Clausi, University of Waterloo