

DAY1 15-Nov (Mon)

	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00
Hall	Registration	PI symposium (9:45 – 17:40)								Welcome Reception 18:00~20:00		
Room 301												
Room 302					Lunch Break (11:50 – 13:20)			Coffee Break (15:00 – 15:30)				
Room 303												
Room 304												
Lounge			Posters Display (9:45 – 17:40)									

DAY2 16-Nov (Tue)

	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00		
Room 301	Registration	Hydrology & Water Resource (9:30 – 13:40)		Lunch Break (11:30 – 13:00)	HYDRO	OPT CalVal/Image (13:40 – 14:40)	Coffee Break (15:00 – 15:30)	(Prep for Poster Session)		Coffee Break (17:30 – 18:00)	Poster Session (18:00-19:00)			
Room 302														
Room 310		Snow & Ice 1 (9:30 – 11:30)				Snow & Ice 2 (13:00 – 14:40)		GEO LO			Vegetation Mapping, Forest & Wetland 1 (15:30 – 17:30)			
Room 311		SAR Cal/Val 1 (9:30 – 11:30)				SAR Cal/Val 2 (13:00 – 15:50)			Cal Land Use & Land Cover1 Val (15:50 – 17:30)					
Room 312		Geography (9:30 – 11:30)				Disaster Management 1 (13:00 – 15:00)			Disaster Management 2 (15:30 – 17:30)					

DAY3 17-Nov (Wed)

	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	
Room 301	Registration	Ocean Processes & Monitoring (9:30 – 13:40)		Lunch Break (11:30 – 13:00)	OCEAN	Agriculture (13:40 – 16:00)	Coffee Break (15:00 – 15:30)	AGRI	Coffee Break (16:30 – 17:00)	Summary Session			
Room 302													
Room 310		Land Use & Land Cover 2 (9:30 – 14:20)				LAND 2		Geology (14:20 – 15:00)				GEO HY LO DRO	
Room 311		Vegetation Mapping, Forest & Wetland 2 (9:30 – 11:30)				Vegetation Mapping, Forest & Wetland 3 (13:00 – 15:50)					FOR EST	(Prep for Summary Session)	
Room 312		Disaster Management 3 (9:30 – 11:10)				Geohazard Supersite Session (13:00 – 15:00)							

The 4th Joint PI Symposium of ALOS Data Nodes for ALOS Science Program 2010 Tokyo

Date: Monday, November 15, 9:45 – 17:40

Place: Hall (4F)

9:45 - 9:50	Welcome address	Toshio Doura (JAXA)
9:50 - 10:00	Activity Summary from JAXA	Masanobu Shimada(JAXA)
10:00 - 10:10	Activity Summary from ASF	Scott A. Arko (ASF)

Session 1 **Chair: Masanobu Shimada (JAXA)**

10:10 **<SAR Calibration>**

APPLICATIONS OF ALOS-PALSAR TO COASTAL WATERS WITH EXAMPLES OF SHIP DETECTION, AND INFORMATION EXTRACTION ON OCEAN WAVES AND UNDERWATER MARINE CULTIVATION

Kazuo Ouchi, National Defense Academy, Japan

10:35 **<PRISM DEM and Disaster>**

Change Detection of Digital Surface Model by ALOS PRISM

Masataka Takagi, Kochi University of Technology, Japan

11:00 **<Forest>**

USE OF ALOS PALSAR FOR MAPPING ABOVE-GROUND BIOMASS, QUEENSLAND, AUSTRALIA

Richard Lucas, Aberystwyth University, UK

11:15 **<Disaster Management>**

INSAR TIME-SERIES ANALYSIS FOR VOLCANO DEFORMATION DETECTION

Taku Ozawa, National Research Institute for Earth Science and Disaster Prevention, Japan

11:40 - 13:20 **Lunch Break**

Session 2 **Chair: Toru Fukuda (JAXA)**

13:20 **<Geography>**

Urban and sub-urban climate change caused by the land-use change

Keiji Kimura, Hokkaido University, Japan

13:45 **<Ocean>**

CHARACTERISTICS OF SEA SURFACE WIND FIELD ALONG THE KOREAN COAST FROM ALOS PALSAR DATA AND AIR-SEA INTERACTION

Kyung-Ae Park, Seoul National University, Korea

14:10 **<Land Use and Land Cover>**

ALASKAN GLACIER CHANGE MONITORED WITH ALOS PRISM AND OTHER SENSORS

Scott A. Arko, Alaska Satellite Facility, USA

14:35 **<Earthquake/Volcano>**

GEO's Geohazard Supersite initiative and a geodetic fault model for the 2010 Haiti earthquake from ALOS and GPS data

Falk Amelung, RSMAS University of Miami, USA

15:00 - 15:30 **Coffee Break**

Session 3 Chair: Don Atwood (ASF)

15:30 <International Polar Year>

**POLYNYA FORMATION AND SEA ICE PRODUCTION OFF CAPE DARNLEY
ANTARCTICA, REVEALED BY ALOS PALSAR AND AMSR-E DATA**

Keiichiro Ohshima, Hokkaido University, Japan

15:55 <Hydrology and Water Resources>

Perspectives on Soil Moisture Retrieval Using ALOS PALSAR

Thomas J. Jackson, USDA Hydrology and Remote Sensing Lab, USA

16:20 <Agriculture>

**ESTIMATION of KAZAKHSTAN CROP AREAS in NOTHERN FOREST-STEPPE ZONE by
SATELLITE DATA**

Muratova Nadiya, Space Research Institute, Kazakhstan

16:45 <SAR general>

**Recent advances in fully polarimetric Space-SAR sensor design culminating in
ALOS-PALSAR, and its applications**

Wolfgang-Martin Boerner, Professor Emeritus, University of Illinois

17:10 <ALOS-2/3>

ALOS Follow-on Satellites

Yuji Osawa, JAXA, Japan

17:35 - 17:40 Closing Remarks

Toru Fukuda (JAXA)

18:00 - 20:00 Welcome Reception: Room 301-304 (3F)

Participation Fee: 2000yen

Hydrology & Water Resource (ORAL)

Date: Tuesday, November 16, 09:30 – 13:40

Place: Room 301/302 (3F)

Chairs: Toshio Koike (University of Tokyo)

Francesco Mattia (ISSIA)

- 9:30 HYDRO01 **DETECTION OF INUNDATION AREA IN PAKISTAN USING PALSAR**
Toshio Koike, University of Tokyo, Japan
- 9:50 HYDRO02 **DEVELOPMENT OF MULTI-POLARIZATION SAR ALGORITHM FOR SOIL MOISTURE IN CAMBODIA**
Kentaro Aida, University of Tokyo, Japan
- 10:10 HYDRO03 **Water Level Measurement in Tonle Sap Floodplain using ALOS PALSAR**
Jung Hyun Choi, Yonsei University, Korea
- 10:30 HYDRO04 **PREDICTING EROSION AND SEDIMENTATION BY USING ALOS/AVNIR-2 DATA: CASE STUDY OF INDUS RIVER**
Asif Mumtaz Bhatti, Kochi University of Technology, Japan
- 10:50 HYDRO05 **SOIL MOISTURE RETRIEVAL FROM TEMPORAL SERIES OF PALSAR SCANSAR DATA**
Francesco Mattia, ISSIA, Italy
- 11:10 HYDRO06 **A CASE STUDY OF RIVER HUNZA FLOODING IN HUNZA VALLEY PAKISTAN**
Mateeul Haq, SUPARCO, Pakistan
- 11:30 Lunch Break
- 13:00 HYDRO07 **CORRECTION OF ALOS PRISM DERIVED TOPOGRAPHY DATA BY LASER PROFILER DATA**
Kazuhiko Fukami, Public Works Research Institute, Japan
- 13:20 HYDRO08 **GEOSTRUCTURAL AND HYDROGEOLOGICAL SETTING OF THE GALLABA PLAIN IN WEST ASWAN, EGYPT, AS REVEALED BY ALOS/PALSAR SUBSURFACE IMAGING**
Ahmed Gaber, Tohoku University, Japan

OPT CalVal/Image (ORAL)

Date: Tuesday, November 16, 13:40 – 14:40

Place: Room 301/302 (3F)

Chairs: Masayuki Matsuoka (Kochi University)

John Matthews (Environmental Satellite Applications)

13:40 OPT01 **LAND COVER CLASSIFICATION OF FOREST AREA USING AVNIR-2**

Masayuki Matsuoka, Kochi University, Japan

14:00 OPT02 **SUMMARY OF CALIBRATION RESULTS FOR PRISM AND AVNIR-2**

Takeo Tadono, JAXA, Japan

14:20 OPT03 **PRISM OCEAN APPLICATIONS WITH THE ATSSG TECHNIQUE**

John Matthews, Environmental Satellite Applications, UK

Ocean Processes & Monitoring (ORAL)

Date: Tuesday, November 16, 14:40 – 15:00

Place: Room 301/302 (3F)

Chairs: Masayuki Matsuoka (Kochi University)

John Matthews (Environmental Satellite Applications)

14:40 OCEAN01 **INVESTIGATION ON METHODOLOGY OF OFFSHORE WIND SPEED ESTIMATION
BY USING SYNTHETIC APERTURE RADAR**

Katsutoshi Kozai, Kobe University, Japan

Snow & Ice 1 (ORAL)

Date: Tuesday, November 16, 09:30 – 11:30

Place: Room 310 (3F)

Chairs: C. K. Shum (Ohio State University)

Masato Furuya (Hokkaido University)

- 9:30 SNOWICE01 **ICE VELOCITY MAP OF ANTARCTICA MEASURED WITH ALOS PALSAR**
Jeremie Mouginot, University of California, Irvine, USA
- 9:50 SNOWICE02 **COMPARISON OF PALSAR SCANSAR AND MODIS IMAGES FOR MONITORING SEA ICE IN THE SEA OF OKHOTSK**
Kohei Cho, Tokai University, Japan
- 10:10 SNOWICE03 **THE GENERATED DEM FROM ALOS/PRISM IN MT. QOMOLANGMA REGION**
Qinghua Ye, Chinese Academy of Sciences, China
- 10:30 SNOWICE04 **NEW METHOD DEVELOPMENT FOR SNOW DISCRIMINATION USING SAR POLARIMETRY TECHNIQUES**
G Venkataraman, Indian Institute of Technology Bombay, India
- 10:50 SNOWICE05 **Monitoring of Glacier Lakes in the Bhutan Himalayas by ALOS/PALSAR data**
Tsutomu Yamanokuchi, Remote Sensing Technology Center of Japan, Japan
- 11:10 SNOWICE06 **Glacier and glacial lake inventory of Bhutan–Nepal using ALOS data**
Jinro Ukita, Niigata University, Japan

Snow & Ice 2 (ORAL)

Date: Tuesday, November 16, 13:00 – 14:40

Place: Room 310 (3F)

Chairs: Jinro Ukita (Niigata University)
Hiroyuki Wakabayashi (Nihon University)

- 13:00 SNOWICE07 **SAR INTERFEROMETRY OBSERVATIONS OF TIBETAN PLATEAU PERMAFROST AND GLACIER THAWING**
C. K. Shum, Ohio State University, USA
- 13:20 SNOWICE08 **THE 2008 YUTIAN NORMAL FAULTING EARTHQUAKE (M7.2) AND NEARBY GLACIER SURFACE MOVEMENT, XINJIANG, CHINA**
Masato Furuya, Hokkaido University, Japan
- 13:40 SNOWICE09 **RETRIEVAL OF THE THICKNESS DISTRIBUTION OF SUBARCTIC AND ARCTIC SEA ICE USING ALOS/PALSAR**
Takenobu Toyota, Hokkaido University, Japan
- 14:00 SNOWICE10 **INTEGRATING REMOTE SENSING METHODOLOGY FOR MONITORING PERMAFROST LANDSCAPES USING ALOS SATELLITE DATA**
Marius Necsoiu, Southwest Research Institute, USA
- 14:20 SNOWICE11 **Monitoring of Mountain Glacial Variations in Northern Pakistan, from 1992 to 2009 using Landsat and ALOS Data**
Mateeul Haq, SUPARCO, Pakistan

Geology (ORAL)

Date: Tuesday, November 16, 14:40 – 15:00

Place: Room 310 (3F)

Chairs: Jinro Ukita (Niigata University)
Hiroyuki Wakabayashi (Nihon University)

- 14:40 GEOLO02 **INVESTIGATION OF EARTHQUAKE-CYCLE DEFORMATION IN TIBET FROM ALOS PALSAR DATA**
Mong-Han Huang, UC Berkeley, USA

Vegetation Mapping, Forest & Wetland 1 (ORAL)

Date: Tuesday, November 16, 15:30 – 17:30

Place: Room 310 (3F)

Chairs: Shane Cloude (AEL Consultants)

Ake Rosenqvist (soloEO)

- 15:30 FOREST01 **DETECTING DEFORESTATION USING RADAR POLARIMETRY**
Shane Cloude, AEL Consultants, UK
- 15:50 FOREST02 **THE IMPACT OF SURFACE MOISTURE ON MULTI-TEMPORAL ALOS PALSAR BACKSCATTER MOSAICS IN QUEENSLAND, AUSTRALIA**
Richard Lucas, Aberystwyth University, UK
- 16:10 FOREST03 **Ortho-rectification and calibration of multi-temporal ALOS PALSAR SCANSAR data for mapping wetland dynamics**
Bruce Chapman, Jet Propulsion Laboratory, USA
- 16:30 FOREST04 **PAN-TROPICAL FOREST COVER FROM ALOS-PALSAR DATA**
Josef Kellndorfer, The Woods Hole Research Center, USA
- 16:50 FOREST05 **Revisiting PALSAR ScanSAR calibration: assessing the [07/2008] SIGMASAR processor upgrade**
Ake Rosenqvist, solo EO, Sweden
- 17:10 FOREST06 **MAPPING MANGROVES WITH THE ALOS SENSORS**
Masayuki Tamura, Kyoto University, Japan

SAR Cal/Val 1 (ORAL)

Date: Tuesday, November 16, 09:30 – 11:30

Place: Room 311 (3F)

Chairs: Ridha Touzi (Canada Centre for Remote Sensing)
Yoshio Yamaguchi (Niigata University)

- 9:30 CALVAL01 **PALSAR INTERFEROMETRY STUDIES OF SURFACE DEFORMATIONS IN BAIKAL LAKE COASTAL AREA**
Alexander Zakharov, Russian Academy of Sciences, Russia
- 9:50 CALVAL02 **USE OF SEGMENTATION FOR IMPROVING FOREST STRUCTURAL ESTIMATES FROM LIDAR AND SAR**
Paul Siqueira, University of Massachusetts, USA
- 10:10 CALVAL03 **PROPOSAL OF A NEW ALGORITHM OF THE THREE-COMPONENT DECOMPOSITION FOR AZIMUTHALLY INCLINED OBJECTS**
Shunichi Kusano, Tohoku University, Japan
- 10:30 CALVAL04 **POLARIMETRIC DECOMPOSITION USING PARTICLE SWARM OPTIMIZATION**
Toshifumi Moriyama, Nagasaki University, Japan
- 10:50 CALVAL05 **GLACIER PARAMETERS ESTIMATION AND SNOW CLASSIFICATION INTEGRATED INTERFEROMETRIC AND POLARIMETRIC SAR**
Zhen Li, Chinese Academy of Sciences, China
- 11:10 CALVAL06 **A NOVEL METHOD FOR POLARIMETRIC SAR IMAGE SPECKLE FILTERING AND EDGE DETECTION**
Si-Wei Chen, Tohoku University, Japan

SAR Cal/Val 2 (ORAL)

Date: Tuesday, November 16, 13:00 – 15:50

Place: Room 311 (3F)

Chairs: Wolfgang–Martin Boerner (Professor Emeritus, University of Illinois)
Toshifumi Moriyama (Nagasaki University)

- 13:00 CALVAL07 **Classification of ALOS PALSAR Images over India using different polarization combinations**
G Venkataraman, Indian Institute of Technology, Bombay, India
- 13:20 CALVAL08 **A NEW CLASSIFICATION TECHNIQUE FOR POLARIMETRIC SAR DATA AND ITS VERIFICATION WITH PALSAR DATA**
Yisok Oh, Hongik University, Korea
- 13:40 CALVAL09 **GROUND SUBSIDENCE MONITORING USING PALSAR INTERFEROMETRY IN SHANGHAI DOWNTOWN AREA: A CASE STUDY**
Jicang Wu, TONGJI UNIVERSITY, China
- 14:00 CALVAL10 **ALOS–INDONESIA POL–INSAR EXPERIMENT (AIPEX): FINAL RESULT**
Mahmud Arifin Raimadoya, Bogor Agricultural University, Indonesia
- 14:20 CALVAL11 **EXPLOITATION OF DUAL AND FULL POLINSAR PALSAR DATA**
Marco Lavallo, Jet Propulsion Laboratory, USA
- 14:40 CALVAL12 **UTILIZATION OF FULLY POLARIMETRIC ALOS–PALSAR DATA**
Yoshio Yamaguchi, Niigata University, Japan
- 15:00 Coffee Break
- 15:30 CALVAL13 **POLARIMETRIC L–BAND PALSAR FOR PEATLAND CHARACTERIZATION**
Ridha Touzi, Canada Centre for Remote Sensing, Canada

Land Use and Land Cover 1 (ORAL)

Date: Tuesday, November 16, 15:50 – 17:30

Place: Room 311 (3F)

Chairs: Ke-Sheng Cheng (National Taiwan University)

Yasunori Nakayama (Nihon University)

- 15:50 LAND01 **COMPARING LANDCOVER PATTERNS IN TOKYO, KYOTO, AND TAIPEI USING ALOS MULTISPECTRAL IMAGES**
Ke-Sheng Cheng, National Taiwan University, Taiwan
- 16:10 LAND02 **THE DECREASING PROJECTS OF WILD BEASTS DAMAGES USING ALOS SATELLITE IMAGES IN RURAL AREA**
Kiyoyuki Yaota, Ritsumeikan University, Japan
- 16:30 LAND03 **MONITORING OF ENVIRONMENTAL CHANGES IN ASIAN MIDDLE LATITUDE ZONE BY ALOS DATA**
Yasunori Nakayama, Nihon University, Japan
- 16:50 LAND04 **ANALYSIS OF MULTI-MODE PALSAR DATA TO DETECT FOREST DEGRADATION IN THE HUMID TROPICS**
Andreas Langner, Kyoto University, Japan
- 17:10 LAND05 **Land-cover Classification Using Polarimetric PALSAR**
Hasi Bagan, National Institute for Environmental Studies, Japan

Geography (ORAL)

Date: Tuesday, November 16, 09:30 – 11:30

Place: Room 312 (3F)

Chairs: Hajime Fukuchi (Tokyo Metropolitan University)

Ya-Qiu Jin (Fudan University)

- 9:30 GEOGRA01 **URBAN AREA APPLICATION AND CALIBRATION OF ALOS/PALSAR FULL POLARIMETRIC OBSERVATION DATA**
Hajime Fukuchi, Tokyo Metropolitan University, Japan
- 9:50 GEOGRA02 **NOISE-REDUCTION AND EXTERIOR ORIENTATION IMPROVEMENT BY THE COPLANARITY EQUATION FOR ALOS-PRISM**
Pantelis Michalis, University College London, UK
- 10:10 GEOGRA03 **POLARIMETRIC SCATTERING SIMULATION AND ANALYSIS FOR ALOS PALSAR AND AIRBORNE PISAR IMAGES OVER FOREST CANOPY WITH/WITHOUT SNOW**
Ya-Qiu Jin, Fudan University, China
- 10:30 GEOGRA04 **Surface chlorophyll estimation by applying LCI method using ALOS AVNIR-2 data in brackish lakes**
Yuji Sakuno, Hiroshima University, Japan
- 10:50 GEOGRA05 **FORECASTING LAND CHANGE IN KATHMANDU VALLEY, NEPAL**
Rajesh Bahadur Thapa, University of Tsukuba, Japan
- 11:10 GEOGRA06 **PRISM DSM GENERATION STATUS**
Junichi Takaku, Remote Sensing Technology Center of Japan, Japan

Disaster Management 1 (ORAL)

Date: Tuesday, November 16, 13:00 – **14:40**

Place: Room 312 (3F)

Chairs: Manabu Hashimoto (Kyoto University)

Yo Fukushima (Kyoto University)

- 13:00 DISAS01 **Ground deformation preceding the 2010 eruption of Eyjafjallajokull, Iceland**
Yosuke Aoki, University of Tokyo, Japan
- 13:20 DISAS02 **Crustal deformation research with ALOS-PALSAR data within the WinSAR consortium**
Falk Amelung, RSMAS University of Miami, USA
- 13:40 DISAS03 **ASSESSING DAMAGE OF FLOOD BY USING ALOS DATA IN THUA THIEN – HUE PROVINCE – VIETNAM**
Nguyen Van Thao, Institute of Marine Environment and Resouces, Vietnam
- 14:00 DISAS05 **VERTICAL DISPLACEMENTS AT KILAUEA VOLCANO MEASURED BY SMALL-BASELINE INSAR TIME-SERIES ANALYSIS USING PALSAR DATA**
Yo Fukushima, Kyoto University, Japan
- 14:20 DISAS06 **ALOS PALSAR DEFORMATION MONITORING OVER ETNA, ITALY**
Urs Wegmuller, Gamma Remote Sensing AG, Switzerland

Disaster Management 2 (ORAL)

Date: Tuesday, November 16, 15:30 – 17:30

Place: Room 312 (3F)

Chairs: David Sandwell (University of California at San Diego)

Falk Amelung (RSMAS University of Miami)

- 15:30 DISAS07 **EVALUATION OF POLARIMETRIC AND INSAR PALSAR DATA FOR FLOODPLAIN AND LAND USE/COVER MONITORING, AND FOR BIOMASS ESTIMATION IN SELECTED AMAZONIAN TEST SITES**
Sidnei Joao Siqueira Sant´Anna, INPE, Brazil
- 15:50 DISAS08 **NEW OBSERVATIONS OF THE LONGITUDINAL VALLEY FAULT CREEP (TAIWAN) FROM PS-INSAR USING ALOS DATA**
Erwan Pathier, Université Joseph Fourier, France
- 16:10 DISAS09 **INSAR MEASUREMENTS OF CRUSTAL DEFORMATION FROM THE 2010 M7.2 EL MAJOR-CUCAPAH EARTHQUAKE: LIQUEFACTION AND TRIGGERED SLIP**
David Sandwell, University of California at San Diego, USA
- 16:30 DISAS10 **THE 2010 MAULE, CHILE EARTHQUAKE: DOWNDIP RUPTURE LIMIT REVEALED BY ALOS INTERFEROMETRY**
Xiaopeng Tong, University of California, USA
- 16:50 DISAS11 **Kilauea volcano source models constrained by InSAR and GPS observations**
Paul Lundgren, Jet Propulsion Laboratory, USA
- 17:10 DISAS12 **ALOS PALSAR MEASUREMENTS OF DEFORMATION IN THE SAN FRANCISCO BAY AREA, CALIFORNIA**
Mong-Han Huang, University of California, Berkeley, USA

Ocean Processes & Monitoring (ORAL)

Date: Wednesday, November 17, 09:30 – 13:40

Place: Room 301/302 (3F)

Chairs: Leonid Mitnik (Russian Academy of Science)
Osamu Isoguchi (JAXA)

- 9:30 OCEAN02 **VALIDATION OF ALOS PALSAR SEA SURFACE WIND PRODUCTS**
Xiaofeng Li, NOAA/NESDIS, USA
- 9:50 OCEAN03 **IMPRINTS OF DYNAMIC OCEANIC AND ATMOSPHERIC PHENOMENA ON ALOS PALSAR MOSAICS**
Leonid Mitnik, Russian Academy of Science, Russia
- 10:10 OCEAN04 **APPLICATION OF ALOS AVNIR-2 IMAGES FOR ASSESSING THE COASTAL ZONE RESOURCES IN INDONESIA**
Sam Wouthuyzen, Research Center for Oceanography, Indonesia
- 10:30 OCEAN06 **RETRIEVAL OF OCEAN WAVE PARAMETERS FROM ALOS/PALSAR**
Osamu Isoguchi, JAXA, Japan
- 10:50 OCEAN07 **OBSERVATION OF INTERTIDAL GROUNDWATER DISCHARGE WITH SYNTHETIC APERTURE RADAR**
Duk-jin Kim, Seoul National University, Korea
- 11:30 Lunch Break
- 13:00 OCEAN08 **OIL SPILL MONITORING WITH ALOS PALSAR IMAGES**
Xiaofeng Li, NOAA/NESDIS, USA
- 13:20 OCEAN10 **MAPPING OF HUMAN ACTIVITIES RELATED TO FISHERIES AND ECOSYSTEMS IN COASTAL AREAS**
Teruhisa Komatsu, University of Tokyo, Japan

Agriculture (ORAL)

Date: Wednesday, November 17, **13:40** – 16:10

Place: Room 301/302 (3F)

Chairs: Nitai Kundu (Institute of Environmental Studies and Wetland Management)

Naoki Ishitsuka (National Institute for Agro-Environmental Sciences)

- 13:40 AGR101 **AGRICULTURAL FIELDS MONITORING USING ALOS DATA IN JAPAN**
Genya Saito, JAXA, Japan
- 14:00 AGR102 **STUDY OF THE EFFECT OF CHANGE IN LANDUSE IN SEWAGE-FED AQUA CULTURE SYSTEM OF CALCUTTA USING REMOTE SENSING & GIS.**
Nitai Kundu, Institute of Environmental Studies and Wetland Management, India
- 14:20 AGR103 **FLOOD EXTENT DETECTION IN PADDY AREA AND FUTURE PLAN OF DISASTER INFORMATION SHARING PLATFORM IN RURAL AREAS**
Yasuharu Yamada, National Agriculture and Food Research Organization, Japan
- 15:00 Coffee Break
- 15:30 AGR104 **OBSERVATION OF JAPANESE PADDY FIELDS USING MULTI POLARIMETRIC PALSAR DATA**
Naoki Ishitsuka, National Institute for Agro-Environmental Sciences, Japan
- 15:50 AGR105 **SUGARCANE IDENTIFICATION USING ALOS PALSAR DATA**
Zhiyuan Pei, Chinese Academy of Agriculture Engineering, China

Land Use and Land Cover 2 (ORAL)

Date: Wednesday, November 17, 09:30 – 14:20

Place: Room 310 (3F)

Chairs: Scott A. Arko (Alaska Satellite Facility)
Kanakano Muramatsu (Nara Women's University)

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| 9:30 | LAND06 | BAMBOO DISTRIBUTION MAPPING USING ALOS/ AVNIR-2 AND PRISM

Atsuko Nonomura, Kagawa University, Japan |
| 9:50 | LAND07 | BATHYMETRIC MAPPING FROM ALOS PALSAR

Antonius Bambang Wijanarto, The National Coordinating Agency for Surveys and Mapping, Indonesia |
| 10:10 | LAND08 | GLACIER MONITORING IN SOUTH AMERICAN TROPICS USING ALOSPRISM SATELLITE IMAGES AND PHOTOGRAMMETRIC TECHNIQS

Edson Ramirez, Universidad Mayor de San Andres, Bolivia |
| 10:30 | LAND09 | Classification of Building Area Using Slant Angle and Density Indices Derived from Polarimetric SAR Data

Junichi Susaki, Kyoto University, Japan |
| 10:50 | LAND10 | ALOS AVNIR-2 AND LANDSAT-7 IMAGES FOR CORAL REEFS ECOSYSTEM DETECTION IN SPERMONDE ARCHIPELAGO, INDONESIA

Nurjannah Nurdin, Hasanuddin University, Indonesia |
| 11:10 | LAND11 | LANDSCAPE STRUCTURE OF MOUNTAIN FOREST IN NORTHEAST OF IRAN BY PRISM WITH RPC FILE

Hadi Fadaei, Kobe University , Japan |
| 11:30 | | Lunch Break |
| 13:00 | LAND12 | ANALYSIS OF COHERENCE VS. LANDCOVER USING ALOS PALSAR

Don Atwood, University of Alaska Fairbanks, USA |
| 13:20 | LAND13 | PRELIMINARY RESULTS OF MULTI-BASELINE INSAR WITH ALOS PALSAR DATASETS FOR HIGH-ACCURACY DEM GENERATION IN MOUNTAINOUS AREAS

Timo Balz, Wuhan University, China |
| 13:40 | LAND14 | DETECTING A BURNED AREA BY POLARIZATION RATIO OF DIFFERENCE USING ALOS PALSAR DATA

Keiko Ishii, Remote Sensing Technology Center of Japan, Japan |
| 14:00 | LAND15 | DISCRIMINATION OF BUILT-UP AREAS USING POLARIZATION ORIENTATION FROM POLARIMETRIC PALSAR IMAGES

Hiroshi Kimura, Gifu University, Japan |

Geology (ORAL)

Date: Wednesday, November 17, 14:20 – 15:50

Place: Room 310 (3F)

Chairs: Pierre Briole (Ecole Normale Supérieure)
Jyr-Ching Hu (National Taiwan University)

14:20 GEOL001 **ALOS PALSAR INTERFEROMETRY IN THE WESTERN CORINTH RIFT, GREECE**

Pierre Briole, Ecole Normale Supérieure, France

14:40 GEOL003 **FINITE FAULT INVERSION OF 2010 YUSHU EARTHQUAKE FROM ALOS OBSERVATIONS**

Xu Caijun, Wuhan University, China

15:00 Coffee Break

15:30 GEOL004 **ALOS PALSAR INTERFEROMETRY AT ETNA, COMPLEMENTARITY WITH ENVISAT ASAR AND GPS**

Pierre Briole, Ecole Normale Supérieure, France

Hydrology & Water Resource (ORAL)

Date: Wednesday, November 17, 15:50 – 16:10

Place: Room 310 (3F)

Chairs: Pierre Briole (Ecole Normale Supérieure)
Jyr-Ching Hu (National Taiwan University)

15:50 HYDRO09 **Estimation of Urban Canyon Geometrical Parameter from PRISM DSM**

Kenji Tanaka, Kyoto University, Japan

Vegetation Mapping, Forest & Wetland 2 (ORAL)

Date: Wednesday, November 17, 09:30 – 11:30

Place: Room 311 (3F)

Chairs: Josef Kellndorfer (The Woods Hole Research Center)
Manabu Watanabe (Tohoku University)

- 9:30 FOREST07 **INTEGRATION OF ALOS PALSAR AND LANDSAT FPC FOR MAPPING FOREST GROWTH STAGE QUEENSLAND, AUSTRALIA**
Richard Lucas, Aberystwyth University, UK
- 9:50 FOREST08 **LAND COVER CLASSIFICATION IN CENTRAL KALIMANTANG, INDONESIA USING ALOS-AVNIR AND PALSAR**
Toshihisa Honma, Hokkaido University, Japan
- 10:10 FOREST09 **CLOUD REMOVAL OF OPTICAL IMAGE USING INTERPOLATION FROM SIMILAR AND NEAREST PIXELS**
Nguyen Thanh Hoan, Chiba University, Japan
- 10:30 FOREST10 **Observation of active layer in permafrost using the PALSAR/full polarimetry mode**
Manabu Watanabe, Tohoku University, Japan
- 10:50 FOREST11 **THE VEGETATION COVER DYNAMIC OF NORTH-EAST EUROPEAN RUSSIA IN ECOLOGICAL GRADIENTS BY RADAR AND OPTICAL DATA**
Vladimir Elsakov, Institute of Biology of Komi ScC RAS, Russia
- 11:10 FOREST12 **ALOS PALSAR 50M MOSAIC DATA WITH MULTISCALE TEXTURE FOR TROPICAL FOREST MAPPING**
Preesan Rakwatin, Geo-Informatics and Space Technology Development Agency, Thailand

Vegetation Mapping, Forest & Wetland 3 (ORAL)

Date: Wednesday, November 17, 13:00 – **15:50**

Place: Room 311 (3F)

Chairs: Ake Rosenqvist (soloEO)

Richard Lucas (Aberystwyth University)

- 13:00 FOREST13 **STUDY OF VEGETATION IN SIBERIAN TEST SITES BY MEANS OF QUAD-POL PALSAR IMAGES**
Ludmila Zakharova, Russian Academy of Sciences, Russia
- 13:20 FOREST14 **GENERATION OF DECADAL GLOBAL HIGH RESOLUTION L-BAND SAR DATASET FOR FOREST CARBON TRACKING**
Masanobu Shimada, JAXA, Japan
- 13:40 FOREST15 **The ALOS Kyoto & Carbon Initiative – current status and outcomes**
Ake Rosenqvist, soloEO, Sweden
- 14:00 FOREST16 **ASSESSMENT OF DIFFERENT TOPOGRAPHIC CORRECTION METHODS IN ALOS AVNIR-2 DATA OF A FORESTED AREA**
Nafiseh Ghasemi, KNTUniversity of technology, Iran
- 14:20 FOREST17 **CHARACTERISATION AND MONITORING OF MANGROVES USING ALOS PALSAR DATA**
Richard Lucas, Aberystwyth University, UK
- 14:40 FOREST18 **Analysis of ALOS-PALSAR and TerraSAR-X data for protected area mapping: Case of the Bwindi National Park.**
John Richard Otukei, Universität Salzburg, Austria
- 15:00 Coffee Break
- 15:30 FOREST18 **CLASSIFICATION BETWEEN EUCALYPTUS AND PINE FORESTS USING OPTICAL AND RADAR IMAGES**
Diego de Abelleira, National Institute of Agricultural Technology

Disaster Management 3 (ORAL)

Date: Wednesday, November 17, 09:30 – 11:10

Place: Room 312 (3F)

Chairs: Urs Wegmuller (Gamma Remote Sensing AG)
Makoto Murakami (Hokkaido University)

- 9:30 DISAS13 **MONITORING THE UPS AND DOWNS OF SUMATRA AND JAVA WITH D-INSAR TIME-SERIES**
Falk Amelung, RSMAS University of Miami, USA
- 9:50 DISAS15 **COSEISMIC DEFORMATION ASSOCIATED WITH WENCHUAN EARTHQUAKE OBSERVED FROM ALOS/PALSAR AND GPS**
Xiaoli Ding, Hong Kong Polytechnic University, China
- 10:10 DISAS16 **REPORT OF CURRENT STATUS OF TEST SITES OF LANDSLIDE IN JAPAN**
Ryoichi Furuta, Remote Sensing Technology Center of Japan, Japan
- 10:30 DISAS17 **PRELIMINARY RESULTS OF LANDSLIDE MONITORING USING ALOS PALSAR DATA STACKS IN THE THREE GORGES AREA**
Timo Balz, Wuhan University, China
- 10:50 DISAS18 **Secular Crustal Deformations Derived from 4 Year Long Observation of ALOS/PALSAR**
Manabu Hashimoto, Kyoto University, Japan

Summary Session

Date: Wednesday, November 17, 17:00 – 18:00

Place: Room 311/312 (3F)

Chair: Masanobu Shimada (JAXA)

Report from OPT Cal/Val/Image

Masayuki Matsuoka, Kochi University, Japan

Report from SAR Cal/Val

Ridha Touzi, Canada Centre for Remote Sensing, Canada

Report from Land Use and Land Cover

Scott A. Arko, Alaska Satellite Facility, USA

Report from Geology

Pierre Briole, Ecole Normale Supérieure, France

Report from Geography

Ya-Qiu Jin, Fudan University, China

Report from Disaster Management

Manabu Hashimoto, Kyoto University, Japan

Report from Agriculture

Naoki Ishitsuka, National Institute for Agro-Environmental Sciences, Japan

Report from Snow & Ice

C. K. Shum, Ohio State University, USA

Report from Vegetation Mapping, Forest & Wetland

Ake Rosenqvist, soloEO, Sweden

Report from Hydrology & Water Resource

Francesco Mattia, ISSIA, Italy

Report from Ocean Processes & Monitoring

Osamu Isoguchi, JAXA, Japan

Discussion

Poster Session

Date: Tuesday, November 16, 18:00 – 19:00

Place: Room 301/302 (3F)

List of Posters

SAR Cal/Val

EVALUATION OF VARIOUS SCATTERING COMPONENT DECOMPOSITION TECHNIQUES OF POLSAR DATA FOR FOREST

Hiroyoshi Yamada, Niigata University, Japan

DERIVING GLACIER BORDER INFORMATION BASED ON ANALYSIS OF INSAR DECORRELATION USING ALOS/PALSAR DATA

Zhou Jianmin, Chinese Academy of Science, China

Long Time Span Interferograms and Effects of Snow Cover on Interferometric Phase at L-band

Khalid A. Soofi, ConocoPhillips, USA

Land Use & Land Cover

ALGORITHM FOR PROCESSING PAN-SHARPEN IMAGE BASED ON REFLECTANCE

Kanako Muramatsu, Nara Women's University, Japan

RICE AREAS MAPPING USING ALOS PALSAR FBD DATA CONSIDERING THE BRAGG SCATTERING IN L-BAND SAR IMAGES OF RICE FIELDS

Feilong Ling, Fuzhou University, China

RETRIEVAL OF GROUND DEFORMATION USING ALOS PALSAR DINSAR IN CHINA

Zhang Hong, Chinese Academy of Science, China

DIFFERENTIAL SEGMENT SORTING METHODOLOGY USING TEMPORAL FULL POLARIMETRIC SAR DATA FOR URBAN CHANGE DETECTION

Masafumi Nakagawa, Shibaura Institute of Technology, Japan

Snow & Ice

ESTIMATION OF SEA ICE CONCENTRATION IN THE SEA OF OKHOTSK USING PALSAR POLARIMETRIC DATA

Hiroyuki Wakabayashi, Nihon University, Japan

ANALYSIS OF PALSAR BACKSCATTER RESPONSE FOR VARIOUS TARGETS IN GLACIATED TERRAIN

Gulab Singh, Niigata University, Japan

Current state of glacier hazards in the Tien Shan mountains

Chiyuki Narama, Research Institute for Humanity and Nature, Japan

Vegetation Mapping, Forest & Wetlands

Combining ALOS PALSAR and TerraSAR-X data for aboveground biomass assessment in tropical peat swamp forests

Florian Siegert, Ludwig-Maximilians-University, Germany

COMBINATION OF OPTICAL AND MICROWAVE DATA OF ALOS FOR TROPICAL FOREST MAPPING

Nguyen Thanh Hoan, Chiba University, Japan

RESEARCH ON FOREST ABOVEGROUND BIOMASS ESTIMATION USING ALOS PALSAR DATA AND ICESAT GLAS WAVEFORM

Guo Zhifeng, Chinese Academy of Sciences, China

FIELD SURVEY OF FOREST ABOVE-GROUND BIOMASS IN MONGOLIA FOR THE ALGORITHM DEVELOPMENT BY PALSAR

Rikie Suzuki, Japan Agency for Marine-Earth Science and Technology, Japan

MAPPING LAKE-BASIN SOLELY USING ALOS PRISM DATA FOR MONITORING LAKE WATER STORAGE

Yuanbo Liu, Chinese Academy of Sciences, China

DIRECTIONALITY OF AVNIR-2-BASED NDVI AND ALOS PALSAR-BASED INTENSITIES ON TOPOGRAPHIC EFFECTS AFFECTING FOR FOREST COMPARTMENTS

Choen Kim, Kookmin University, Korea

Retrieval of soil moisture using multi-polarization L-band SAR data

Gulab Singh, Niigata University, Japan

FOREST MANAGEMENT MAPPING, MONITORING, AND INFERENCE OF BIOPHYSICAL PARAMETERS BASED ON ALOS PALSAR AND COSMO SKYMED DATA

Francesco Holecz, sarmap, Switzerland

Geography

Monitoring of "Quebrada", the dry river channels on the Nasca Pampa, Peru

Isao Akojima, Yamagata University, Japan

Using ALOS Images to Develop Efficient Measures against Vector-borne Diseases – Regional Differences in Outbreak Risk of Schistosomiasis in China

Naoko Nihei, National Institute of Infectious Diseases, Japan

SEMI-AUTOMATIC TOOL FOR DATA FUSION

—for the Advanced Education using ALOS Data—

Toshiro Sugimura, RESTEC, Japan

A STUDY ON USE OF ALOS DATA FOR PROTECTION OF MESOPOTAMIAN ARCHAEOLOGICAL SITES

Isamu Ono, Kokushikan University, Japan

Disaster Management

DETECTION OF THE WIDE-AREA CRUSTAL MOVEMENT IN KYUSHU USING ALOS/PALSAR DATA

Nobuhiro Tomiyama, RESTEC, Japan

Digital Elevation Model (DEM) Generation from PRISM Forward-Backward Stereo Images

Mohd Zubir Mat Jafri, Universiti Sains Malaysia, Malaysia

LONG TIME SPAN INTERFEROGRAMS AND EFFECTS OF SNOW COVER ON INTERFEROMETRIC PHASE AT L-BAND

David Sandwell, University of California at San Diego, USA

Hydrology & Water Resource

STUDY OF THE SOIL MOISTURE VARIATION IN THE KOBUK RIVER VALLEY (ALASKA) WITH

PALSAR/ALOS: CALIBRATION

REQUIREMENTS FOR ALOS-2

Nicolas Longepe, Collecte Localisation Satellites, France

GROUND SUBSIDENCE MONITORING BY SBAS ANALYSIS IN MINING AREAS

Sang-Wan Kim, Sejong University, Korea

Ocean Processes & Monitoring

ASSESSMENT OF THE DISTRIBUTION AND HEALTH STATUS OF CORAL REEFS IN VIETNAM COAST

USING ALOS-AVNIR2 IMAGERY

Tong Phuoc Hoang Son, Institute of Oceanography, Vietnam

MONITORING OF PACIFIC SAURY AND JAPANESE COMMON SQUID FISHING VESSELS USING PALSAR DATA

Fumihiko Takahashi, Hokkaido University, Japan

USING ALOS DATA FOR MONITORING RED-SOIL SEDIMENTATION IN REEF PONDS OFF OKINAWA ISLAND

Katsuo Okamoto, National Institute for Agro-Environmental Sciences, Japan

OPT CalVal/Image

COMPARISON OF ALOS/PRISM AND CARTOSAT-1 SATELLITES FOR MAPPING

P.V Radhadevi, ADRIN, India

Agriculture

Report of Grassland Degradation Survey In Innermongolia Based on Remote Sensing

Zhang Wei, China Agricultural University, China

OBSERVATION OF PADDY RICE USING MULTI TEMPORAL PALSAR DATA

Naoki Ishitsuka, National Institute for Agro-Environmental Sciences, Japan

Geology

FIRST SAR INTERFEROMETRIC DATA RECEIVED FOR SOUTH-WEST PART OF BAIKAL RIFT SYSTEM

Ludmila Zakhrova, Russian Academy of Science, Russia

SPATIAL VARIATION OF VERTICAL CRUSTAL DEFORMATION FROM PS-INSAR AND CONTINUOUS GPS IN EASTERN TAIWAN

Jyr-Ching Hu, National Taiwan University, Taiwan

International Polar Year

STUDY ON SHIRASE GLACIER MOVEMENT USING ALOS DATA

Kazuki Nakamura, National Institute of Advanced Industrial Science and Technology, Japan

REVELATION OF ACTIVE CONTEMPORARY FAULTS USING PALSAR DATA IN OIL AND GAS EXPLORATION WORK

Dmitry Trofimov, RESENOIL Ltd, Russia

ALOS Kyoto & Carbon Initiative Science Team

ALOS PALSAR mosaics over North and South America

Bruce Chapman

Wetland management and wild life protection in the Pantanal

Maycira Costa

Near Real Time Monitoring of Brazilian Amazon Deforestation

Silvana Amaral and Dalton Valeriano

A fine resolution wall-to-wall mosaic of the African continent

Gianfranco De Grandi, Ake Rosenqvist and Alexandre Bouvet

National clear-cut mapping in Sweden

Johan Fransson and Maurizio Santoro

Habitat mapping for biodiversity and conservation on the Amazon floodplain

Laura Hess

Mapping of peat swamp forests in Indonesia

Dirk Hoekman

Land cover and topographic mapping at national scale in Malawi

Francesco Holecz

Forest Cover Mapping and Change Detection in the Xingu Watershed, Mato Grosso, Brazil

Josef Kellndorfer

Mapping 10-year changes in forest biomass in Central Siberia

Thuy Le Toan

Mapping of Land Cover in Riau Province, Sumatra, Indonesia

Nicolas Longépé and JAXA K&C team

Estimation of forest biomass in Queensland, Australia

Richard Lucas

Mapping Wetland Ecosystems across Alaska

Kyle McDonald

Near Real-Time Monitoring of Brazilian Amazon Deforestation

Humberto Navarro de Mesquita Junior

Wetland extent, inundation patterns and vegetation change in the Greater Mekong Basin

Anthony Milne and Ian Tapley

Mapping of sub-surface geology in Sahara to support water prospecting

Philippe Paillou

Mapping deforestation in Sumatra using multi-temporal ALOS ScanSAR data

Shaun Quegan

Mapping for threatened wetlands along the Nile river

Lisa-Maria Rebelo

Flood duration mapping in the Congo River Basin

Ake Rosenqvist

Mapping and monitoring rice agriculture with ALOS ScanSAR imagery

William Salas

Boreal Land Cover and Forest Structure Mapping in Siberia

Christian Thiel, Christiane Schmullius and Maurizio Santoro

Detecting 14-year tropical forest change by ALOS and JERS-1

Masanobu Shimada and JAXA EORC team

SAR, InSAR and Lidar Studies for Measuring Vegetation Structure Over the Harvard Forest Region

Paul Siqueira

Estimates of lake size distribution and carbon burial across the Canadian landscape

Kevin Telmer