

The 2nd PI Workshop for ALOS-2

Date : November 18 (Wednesday) - 20 (Friday), 2015

Venue : Akihabara Convention Hall, Tokyo, Japan

■ Session Overview

	Convention Hall A (2F)	Convention Hall B (2F)	Room 5B (5F)
Day 1 Wednesday, Nov. 18, 2015			
10:00-11:40	Session 1: Plenary Session		
13:20-16:40	Session 2-1: Disaster and Earthquake 1	Session 2-2: Snow, Ice, and Polar Research	Session 2-3: Geology, Geography, and Education
18:00-20:00	Welcom Reception (GRACE BALI Akihabara)* Please come to the venue at 17:30.		
Day 2 Thursday, Nov. 19, 2015			
10:00-16:40	Session 3-1: Disaster and Earthquake 2	Session 3-2: Calibration, Polarimetry and Interferometry	Session 3-3: Land-use and Land-cover, Vegetation, and Forestry
Day 3 Friday, Nov. 20, 2015			
	Room 5A (5F)	Room 5C (5F)	Room 5B (5F)
10:00-12:24	Session 4-1: Disaster and Earthquake-3	Session 4-2: Oceanography and Coastal Zone	Session 4-3: Hydrology and Agriculture
14:00-16:10			Session 5: Plenary Session

* To participate the Welcome Reception, please book and register at Registration Desk before 12:00 on Nov. 18, 2015.
The detail information and map of the venue are also available at Registration Desk. All of you are very welcome.

The 2nd PI Workshop for ALOS-2

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Date : November 18 (Wednesday) - 20 (Friday), 2015
Venue : Akihabara Convention Hall, Tokyo, Japan

■ Day 1: Nov. 18, 2015 (Wed)

Session 1: Plenary Session (2F Convention Hall)

0:20

Chair: Masanobu Shimada, Shinichi Suzuki (JAXA)

Time	Title	Name	Affiliation
10:00 - 10:05	Welcome Remarks	Teruyuki Nakajima	JAXA
10:05 - 10:25	Operation Status of ALOS-2	Shinichi Suzuki	JAXA
10:25 - 10:45	Calibration Status of PALSAR-2	Masanobu Shimada	JAXA
10:45 - 11:05	Summary of Data Acquisition Status (PI Super Sites and BOS)	Takeshi Motohka Fumi Ohgushi	JAXA RESTEC
11:05 - 11:25	Data Order Information	Masato Ohki EORC Orderdesk	JAXA
11:25 - 11:40	ALOS-2 RA Status and Logistics	Takeo Tadono	JAXA
11:40 - 13:20	Lunch		

■ Day 1: Nov. 18, 2015 (Wed)

Session 2-1: Disaster and Earthquake 1 (2F Convention Hall A)

0:18

Chair: Paul Lundgren (JPL, CalTech, USA), Ryo Natsuaki, Manabu Watanabe (JAXA)

Time	Title	Name	Affiliation
	Subsidence and Fault		
13:20 - 13:38	2 Ground Deformation in Northern Kanto, Osaka and Nagoya Detected by PALSAR/PALSAR-2	Manabu Hashimoto	Disaster Prevention Research Institute, Kyoto University Japan
13:38 - 13:56	3 Displacement Mapping Using PALSAR-2 DInSAR, PSI and Tracking	Tazio Strozzi (PI: Urs Wegmuller)	Gamma Remote Sensing Switzerland
13:56 - 14:14	4 A Short-Term Fluctuation of Surface Deformation in Taipei Metropolitan Area Revealed by SAR Interferometry	Jyr-Ching Hu	National Taiwan University Taiwan
14:14 - 14:32	5 Research on Secular Crustal Deformation in the Niigata-Kobe Tectonic Zone by InSAR Time Series Analysis	Tomokazu Kobayashi	Geospatial Information Authority of Japan Japan
14:32 - 14:50	Discussions & Draft Session Report		
14:50 - 15:10	Coffee Break		
15:10 - 15:28	6 Mapping Active Deformation of the Sumatran Fault	Lujia Feng	Nanyang Technological University Singapore
15:28 - 15:46	7 Near Fault Creeping and Fault Slip in Central San Andreas Fault Using Satellite InSAR, UAVSAR and GPS	Zhen Liu	Jet Propulsion Laboratory, California Institute of Technology USA
15:46 - 16:04	8 Application of ALOS-2 and Other Sensor InSAR to Volcano and California Surface Deformation Processes	Paul Lundgren	Jet Propulsion Laboratory, California Institute of Technology USA
16:04 - 16:22	9 Interseismic Crustal Deformation In and Around The Atotsugawa Fault System, Central Japan, Detected by InSAR and GNSS	Youichiro Takada	Hokkaido University Japan
16:22 - 16:40	Discussions & Draft Session Report		

■ Day 1: Nov. 18, 2015 (Wed)

Session 2-2: Snow, Ice, and Polar Research (2F Convention Hall B)

Chair: Go Iwahana (IARC, Univ. of Alaska Fairbanks), Hiroto Nagai (JAXA)

Time	Title	Name	Affiliation
13:20 - 13:38	1 Observation of Mountain Glaciers by PALSAR-2 in The West Kunlun Shan, NW Tibet	Takatoshi Yasuda	Hokkaido University Japan
13:38 - 13:56	2 Monitoring Landsurface Hydrology in High Latitude Permafrost Environments	Annett Bartsch	Central Institute for Meteorology and Geodynamics Austria
13:56 - 14:14	3 InSAR studies of permafrost degradation using ALOS PALSAR	Lin Liu	The Chinese University of Hong Kong Hong Kong
14:14 - 14:32	4 A Comparison of ALOS PALSAR Interferometry and Field Geodetic Leveling for Marshy Soil Thaw/Freeze Monitoring, Case Study from the Baikal Lake Region, Russia	Alexander Zakharov (PI: Tumen Chimitdorzhiev)	Kotelnikov's Institute of Radioengineering and Electronics, RAS Russia
14:32 - 14:50	5 L-band SAR Operational Use for Sea Ice Hazard Surveys, Ice Forecasts and Assessments of Marine Mammal Habitats	Go Iwahana (PI: Hajo Eicken)	University of Alaska Fairbanks USA
14:50 - 15:10	Coffee Break		
15:10 - 15:28	6 A Preliminary Results of InSAR Analysis of ALOS-2 PALSAR Data for Ice Sheet Movement on Antarctica	Tsutomu Yamanokuchi	RESTEC Japan
15:28 - 15:46	7 Detection of Irregular Displacements on Greenland Ice Sheet by Double Differential InSAR	Koichiro Doi	National Institute of Polar Research Japan
15:46 - 16:04	8 A First Analysis of Polarimetric Arctic Sea Scenes from PALSAR-2	Torbjorn Eltoft	University of Tromso, The Arctic University of Norway Norway
16:04 - 16:22	9 Newly Formed Sea Ice in Fram Strait Leads Monitored by X-, C- and L-band SAR	Malin Johansson (PI: Torbjorn Eltoft)	University of Tromso, The Arctic University of Norway Norway
16:22 - 16:40	Discussions & Draft Session Report		

■ Day 1: Nov. 18, 2015

Session 2-3: Geology, Geography, and Education (5F Room 5B)

Chair: Masato Ohki, Takeo Tadono (JAXA)

Time	Title	Name	Affiliation
13:20 - 13:38	1 Urban Density Mapping of Global Megacities from Polarimetric SAR Image	Junichi Susaki	Kyoto University Japan
13:38 - 13:56	3 Active Stratovolcano Monitoring with Slow Deformation Using Time-series InSAR Analysis	Sang-Wan Kim	Sejong University Republic of Korea
13:56 - 14:14	4 Detection and Investigation of Hidden Geomorphological Features by L band SAR Signatures	Jung-Rack Kim (PI: Sanjeev Gupta)	University of Seoul Republic of Korea
14:14 - 14:32	5 Remote Sensing Applied for a Study of Space Time Geographical Pathology for the Relationships Between Dengue Endemic in Northern Sri Lanka and Ecological, Socio-Economic and Demographic Factors	Sumiko Anno	Shibaura Institute of Technology Japan
14:32 - 14:50	6 Space Education Program with Use of Corner Reflectors Made by Children	Tohru Takahashi	National Institute of Technology, Oita College Japan
14:50 - 15:10	Coffee Break		
15:10 - 15:28	7 The Constellation of Daichi: An International Art Project to Create Geoglyphs by Using ALOS-2 (Daichi-2)	Hiroshi Suzuki	Kanazawa College of Art Japan
15:28 - 15:46	Discussions & Draft Session Report		
15:46 - 16:04			
16:04 - 16:22			
16:22 - 16:40			

■ Day 2: Nov. 19, 2015 (Thu)

Session 3-1: Disaster and Earthquake 2 (2F Convention Hall A)

0:18

Chair: Tazio Strozzi (Gamma Remote Sensing, Switzerland), Ryo Natsuaki, Hiroto Nagai (JAXA)

Time	Title	Name	Affiliation
	Earthquake, Landslide, Volcano, and Glacier		
10:00 - 10:18	1 Bangladesh Coastal Embankment Subsidence and Estuary Water-Level Changes Using ALOS PALSAR Data	C.K. Shum	The Ohio State University USA
10:18 - 10:36	2 Reactivated Afterslip in George Sound, New Zealand, Following the 2009 Mw 7.8 Dusky Sound Earthquake	Ian J Hamling	GNS Science New Zealand
10:36 - 10:54	3 Detection of Landslide Movement in West China Using PALSAR and PALSAR-2 Datasets	Lu Zhang (PI: Mingsheng Liao)	Wuhan University China
10:54 - 11:12	4 A Case Study of Mapping Landslides Using Complex Correlation of Co-Polarization Data	Ryoichi Furuta	RESTEC Japan
11:12 - 11:30	5 Monitor Landslide Phenomena with ALOS-2/PALSAR-2	Tazio Strozzi (PI: Andrea Manconi)	Gamma Remote Sensing Switzerland
11:30 - 11:48	6 InSAR Contribution to the Study of Slow-Slip Events Along the Mexican Subduction Zone	Pathier Erwan	ISTerre, Universite Grenoble Alpes
11:48 - 13:20	Lunch		
13:20 - 13:38	7 Mapping Urban Damage of the 2011 East-Japan Earthquake Using Multi-Temporal SAR Images	Masayuki Tamura	Kyoto University Japan
13:38 - 13:56	8 Imaging Deformation from the M7.8 Gorkha Earthquake in Nepal and M8.3 Illapel Earthquake in Chile with ALOS-2 InSAR	Sang-Ho Yun (PI: Eric J. Fielding)	Jet Propulsion Laboratory, California Institute of Technology USA
13:56 - 14:14	9 Rapid Response Products for the 2015 M7.8 Gorkha, Nepal Earthquake using ALOS-2 Data	Sang-Ho Yun	Jet Propulsion Laboratory, California Institute of Technology USA
14:14 - 14:32	10 Damage Detection in The 2015 Gorkha, Nepal Earthquake Using ALOS-2 Satellite SAR Imagery	Fumio Yamazaki	Chiba University Japan
14:32 - 14:50	11 The Role of Fault Morphology on the Mw 7.8 Gorkha, Nepal Earthquake Revealed by ALOS-2 ScanSAR Interferometry	Eric O. Lindsey (PI: Sylvain Barbot)	Nanyang Technological University
14:50 - 15:10	Coffee Break		
15:10 - 15:28	12 Glacier Surge Dynamics at Yukon, Canada, Inferred From PALSAR-1/2 Observations	Masato Furuya	Hokkaido University Japan
15:28 - 15:46	13 Detection of Volcano Deformation by PALSAR-2/InSAR	Taku Ozawa	National Research Institute for Earth Science and Disaster Prevention Japan
15:46 - 16:04	14 Fault Creep Rate Along the Aceh Segment of the Sumatran Fault from L-band ALOS-1/PALSAR-1 Observations	Xiaohua Xu (PI: Xiaopeng Tong)	University of California, San Diego
16:04 - 16:22	Discussions & Draft Session Report		
16:22 - 16:40			

■ Day 2: Nov. 19, 2015 (Thu)

Session 3-2: Calibration, Polarimetry and Interferometry (2F Convention Hall B)

Chair: Wolfgang-Martin Boerner (the University of Illinois, US), Takeshi Motohka, Masato Ohki (JAXA)

Time	Title	Name	Affiliation
	InSAR Technique		
10:00 - 10:18	1 Calibration and Validation of ALOS-2/PALSAR-2 and the ScanSAR Interferometry	Masanobu Shimada	Tokyo Denki University, JAXA Japan
10:18 - 10:36	2 ScanSAR Interferometry Along the Southern San Andreas Fault System	Xiaohua Xu (PI: David Sandwell)	University of California, San Diego
10:36 - 10:54	3 Interferometric Evaluation of Phase Center Location in Boreal Forests	Alexander Zakharov (PI: Liudmila Zakharova)	Kotelnikov's Institute of Radioengineering and Electronics, RAS Russia
10:54 - 11:12	4 Mitigation of Orbit Inaccuracy Impact on Multi-Temporal InSAR	Lei Zhang	The Hong Kong Polytechnic University Hong Kong
11:12 - 11:30	5 ALOS ScanSAR and Stripmap Interferometry for Studying Relative Motion Between the Korean Peninsula and the Southwestern Japan	Jung-Hyun Choi (PI: Joong-Sun Won)	Yonsei University Korea
11:30 - 11:48	6 Two Approaches for the SAR Water Vapor Delay: Delay Correction by Climatological Re-Analysis Data and Meteorological Application Using Localized Delay Signal	Youhei Kinoshita	The University of Tokyo Japan
11:48 - 13:20	Lunch		
13:20 - 13:38	7 Application of Natural Point and Extended Targets for PALSAR-2 Radiometric Calibration	Alexander Zakharov	Kotelnikov's Institute of Radioengineering and Electronics, RAS Russia
13:38 - 13:56	8 PALSAR-2 Quad. Pol. Images and PALSAR-1 ones	Yoshio Yamaguchi	Niigata University Japan
13:56 - 14:14	9 Landslide Monitoring by ALOS-2	Motofumi Arii	Mitsubishi Electric Co., Ltd. Japan
14:14 - 14:32	10 Development of Effective Utilization Method of Quad-Pol ALOS-2/PALSAR-2 Data for Stricken Buildings Detection	Ryoichi Sato	Niigata University Japan
14:32 - 14:50	11 Polarization Orientation Angle Shifts of Built-Up Areas in PALSAR2 AND PALSAR DATA	Hiroshi Kimura	Gifu University Japan
14:50 - 15:10	Coffee Break		
15:10 - 15:28	12 Averaged Stokes Vector Based Polarimetric SAR Data Interpretation	Fang Shang (PI: Akira Hirose)	The University of Electro-Communications Japan
15:28 - 15:46	13 Proposal of Snow and Ice Mapping with Stokes Vector Representation	Naoto Usami (PI: Akira Hirose)	The University of Tokyo Japan
15:46 - 16:04	14 Scene Classification Using ALOS-2 Quad-Polarization Data at Level 1.5	Hong Zhang	Institute of Remote Sensing and Digital Earth, CAS China
16:04 - 16:22	Discussions & Draft Session Report		
16:22 - 16:40			

■ Day 2: Nov. 19, 2015 (Thu)

Session 3-3: Land-use and Land-cover, Vegetation, and Forestry (5F Room 5B)

Chair: Md Latifur Rahman Sarker (UTM, Malaysia), Rajesh Thapa, Manabu Watanabe (JAXA)

Time	Title	Name	Affiliation
10:00 - 10:18	1 Building Density Estimations Using Backscattering Characteristics by PALSAR and PALSAR-2 Over Plains	Takeo Tadono (PI: Atsuko Nonomura)	JAXA Japan
10:18 - 10:36	2 Urban Infrastructure Monitoring using PSInSAR and MInTS Techniques	Md Latifur Rahman Sarker	Universiti Teknologi Malaysia Malaysia
10:36 - 10:54	3 Monitoring Land Cover Dynamics and Plant Succession Using ALOS Imagery in the Context of Flood Affected Areas in Sunsari District, Nepal	Kabir Uddin	International Centre for Integrated Mountain Development (ICIMOD) Nepal
10:54 - 11:12	4 A Study for the Methodology to Monitor Mt. Shinmoe-Dake Volcano by Combining ALOS-2, RADARSAT-2, and TERRASAR-X Satellites' Data	Daisuke Sango	PASCO CORPORATION Japan
11:12 - 11:30	5 Comparison of Multi-Frequency InSAR Data in Coastal Land Subsidence Monitoring	Lu Zhang	Wuhan University China
11:30 - 11:48	6 Monitoring forest disaster using PALSAR-2 and Terrestrial Laser Scanner	Akira Kato	Chiba University Japan
11:48 - 13:20	Lunch		
13:20 - 13:38	7 Detecting Deforestation and Degradation with ALOS and ALOS-2	Edward Mitchard	University of Edinburgh UK
13:38 - 13:56	8 Development of Biomass Retrieval Algorithm by Using L-band SAR	Manabu Watanabe	JAXA Japan
13:56 - 14:14	9 Derving of Standing Volume Estimates from PALSAR-2 Backscatter	Choen Kim	Kookmin University Republic of Korea
14:14 - 14:32	10 Radar Burn Ratio: A Novel Index for Automatic Fire Impact Assessment	Mihai Tanase	The University of Melbourne Australia
14:32 - 14:50	11 Application of SAR Data to Monitor Biophysical Parameters of Oilplam Plantation	Ram Avtar	United Nations University Japan
14:50 - 15:10	Coffee Break		
15:10 - 15:28	12 Studies of Japanese Coastal Environments by Pauli Color Coded Images Using ALOS2/PALSAR2 Data	Genya Saito (PI: Kuniaki Uto)	Tokyo Institute of Technology Japan
15:28 - 15:46	Discussions & Draft Session Report		
15:46 - 16:04			
16:04 - 16:22			
16:22 - 16:40			

■ Day 3: Nov. 20, 2015 (Fri)

Session 4-1: Disaster and Earthquake 3 (5F Room 5A)

0:18

Chair:

Time	Title	Name	Affiliation
10:00 - 10:18	Discussions & Draft Session Report		
10:18 - 10:36			
10:36 - 10:54			
10:54 - 11:12			
11:12 - 11:30			
11:30 - 11:48			
11:48 - 12:06			
12:06 - 12:24			
12:24 - 13:50	Lunch		

■ Day 3: Nov. 20, 2015 (Fri)

Session 4-2: Oceanography and Coastal Zone (5F Room 5C)

Chair: TBD (), Osamu Isoguchi (RESTEC)

Time	Title	Name	Affiliation
10:00 - 10:18	1 Detection of Meso- and Submeso-Scale Ocean Fronts Using Synthetic Aperture Radar (SAR)	Osamu Isoguchi	RESTEC Japan
10:18 - 10:36	2 Oil Spill Variations from SAR Imagery at the Coastal Region of the Yellow Sea and Causes	Kyung-Ae Park	Seoul National University Republic of Korea
10:36 - 10:54	3 Modification of PALSAR-Derived Wind Fields at the Coastal Region and Relation to Coastal Upwelling	Kyung-Ae Park	Seoul National University Republic of Korea
10:54 - 11:12	4 On the Ship Detection Algorithms Using Sub-Look and Polarimetric SAR Data	Kazuo Ouchi	IHI Corporation Japan
11:12 - 11:30	5 Detecting Sea Aquaculture Facilities Using PALSAR, PALSAR-2, PiSAR-L2 at the Sanriku Coast	Hiroki Murata (PI: Teruhisa Komatsu)	The University of Tokyo Japan
11:30 - 11:48	6 PALSAR-2 Views Large Internal Waves at the Lombok and Ombai Straits of Indonesia	John Philip Matthews	Kyoto University Japan
11:48 - 12:06	7 River Delta Monitoring Measured With L-band SAR	Akiko Tanaka	Geological Survey of Japan, AIST Japan
12:06 - 12:24	Discussions & Draft Session Report		
12:24 - 13:50	Lunch		

■ Day 3: Nov. 20, 2015 (Fri)

Session 4-3: Hydrology and Agriculture (5F Room 5B)

Chair: Chinatsu Yonezawa (Tohoku University, Japan), Takeo Tadono (JAXA)

Time	Title	Name	Affiliation
10:00 - 10:18	1 Potential of Low Frequency SAR to Monitor Arid Environments: A Case Study in Southern Tunisia	Philippe Paillou	University of Bordeaux France
10:18 - 10:36	2 Monitoring of Land Subsidence in Indonesian Cities	Emma Hill	Nanyang Technological University Singapore
10:36 - 10:54	3 Study on a Frequently Applicable SAR Algorithm for Soil Moisture	Kentaro Aida (PI: Toshio Koike)	University of Tsukuba Japan
10:54 - 11:12	4 Monitoring of soil moisture dynamics from very high-resolution ALOS-2 PolSAR data	Christian Koyama	Tohoku University Japan
11:12 - 11:30	5 Analysis of PALSAR-2 Full Polarimetric Data Observing Agricultural Field	Chinatsu Yonezawa	Tohoku University Japan
11:30 - 11:48	6 Monitoring Spatial and Temporal Variations of Rice Backscatter Coefficient at Different Phenological Stages (Age) in Sungai Burong and Sawah Sempadan, Kuala Selangor	Maged Marghany (PI: Abdul Rashid Bin Mohamed Shariff)	Universiti Teknologi Malaysia Malaysia
11:48 - 12:06	Discussions & Draft Session Report		
12:06 - 12:24			
12:24 - 13:50	Lunch		

■ Day 3: Nov. 20, 2015 (Fri)

Session 5: Plenary Session (5F Room 5B)

Chair: Masanobu Shimada, Takeo Tadono (JAXA)

Time	Title	Name	Affiliation
14:00 - 15:20	Session Reports (8 sessions, 10mins each) • Disaster and Earthquake 1 • Disaster and Earthquake 2 • Snow, Ice, and Polar Research • Geology, Geography, and Education • Calibration, Polarimetry and Interferometry • Land-use and Land-cover, Vegetation, and Forestry • Oceanography and Coastal Zone • Hydrology and Agriculture	Session Chair	
15:20 - 16:00	Discussions Super Sites, Common Issues, Action Items	All	
16:00 - 16:10	Closing Remarks	Shinichi Suzuki	JAXA