

ALOS Kyoto & Carbon Initiative
24th Science Team meeting (KC#24)
RESTEC HQ, Tokyo

MONDAY January 29, 2018

Introduction

- 10:00 Welcome** (Masato Hayashi, Takeo Tadono, JAXA)
10:10 K&C update (Ake Rosenqvist, for JAXA)
10:30 PALSAR-2 operational status (Shin-ichi Sobue, ALOS-2 Project Manager)
10:50 PALSAR-2 processing and data provision to K&C Science Teams
(Takashi Ogawa, RESTEC)
11:00 ALOS-2 Cal/Val update (Takeshi Motohka, JAXA)
11:20 New ALOS-2 Research Announcement (Takeo Tadono, JAXA)

11:30 – 11:40 Coffee

- 11:40 Validation of 25m-resolution Global PALSAR-2/PALSAR Forest/Non-forest Map** (Takuya Itoh, RESTEC)

- 12:00 ScanSAR mosaic processing** (Masanobu Shimada, TDU)

12:30 – 13:50 LUNCH

Wetlands & Glacier Themes

- 13:50 Berndt Scheuchl (UCI/USA) – G1: Ice Sheet monitoring by ALOS-2**

- 14:10 Lisa Rebelo (IWMI/Lao PDR.) – W1: Nile and Zambezi Basins**

- 14:30 Pete Bunting (U. Aberystwyth/U.K.) – W2: The Global Mangrove Watch**

- 14:50 Toshio Okumura (RESTEC) – W7: Asia-RiCE**

15:10 – 15:30 Coffee

- 15:30 Kyle McDonald (CUNY/USA) – W3: Mapping Wetlands, Surface Structural Attributes, and Boreal Freeze/Thaw at Regional Scales with JAXA SAR data**

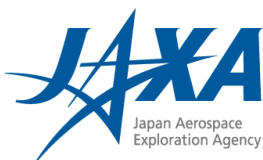
- 15:50 Thiago Silva (UNESP/Brazil) – W4: Mapping habitat distribution, vegetation structure and flooding dynamics in the Amazon basin**

- 16:10 Ake Rosenqvist (soloEO) – Inundation mapping by ScanSAR time-series**

- 16:30 ALOS-2 BOS update** (Ake Rosenqvist, for JAXA)

- 16:50 Open floor discussions**

~ 18:00 Adjourn



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TUESDAY January 30, 2018

Forest Theme

- 10:00 Michail Urbazaev (FSU-Jena/Germany) – F24:** *PALSAR-1/2 Data for Vegetation Cover and Biomass Mapping in Various Climates*
10:20 Paul Siqueira (UMass/USA) – F22: *Use of short-period ALOS-2 observations for vegetation characterization and classification*
10:40 Maurizio Santoro (Gamma RS/Switzerland) – F21: *Coupling radar-based estimates of forest info with biosphere models for improved C flux estimation*

11:00 – 11:20 Coffee

- 11:00 Edson Sano (IBAMA/Brazil) – F20:** *Detecting new deforested areas in the Brazilian Amazon using ALOS-2 PALSAR-2 imagery*
11:20 Nathan Torbick/Bill Salas (AGS/USA) – F19 (by Ake): *Operational rice mapping and forest structure assessment to support the 3Cs*
11:40 Arief Rahmat (LAPAN/Indonesia) – F18: *Forest mapping in North Sumatra*
12:00 João Carreiras (U. Sheffield/UK) – F17: *Measuring AGB and its changes over Brazilian tropical secondary forests and savanna woodlands (Cerrado)*

12:20 – 13:30 LUNCH

Related mission updates

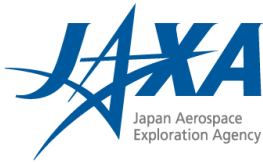
- 13:30 Takehi Mothoka (JAXA TKSC) – ALOS-4**
13:45 Takeo Tadono (JAXA EORC) – ALOS-3
14:00 Bruce Chapman/Paul Siqueira (JPL/UMass) – NISAR
14:15 Thuy Le Toan (CESBIO) – BIOMASS
14:45 John Armston (UMD) – GEDI
15:00 Masato Hayashi (JAXA EORC) – MOLI

15:10 – 15:30 Coffee

- 15:30 Hamdan Omar (FRIM/Malaysia) – F15:** *Updating forest cover and assessing AGB in various tropical forest ecosystems from PALSAR-2 polarization data*
15:50 Anthea Mitchell (UNSW/Australia) – F14: *Forest mapping in Tasmania*
16:10 Renaud Mathieu (CSIR/South Africa) – F12: *Mapping woody fraction cover and biomass in southern Africa using ALOS-2 PALSAR-2*
16:30 Joaquim Macuacua (Nat. Dir. on Forestry/Mozambique) – F11: *National Forest Monitoring System For REDD+ in Mozambique*
16:50 Ake Rosenqvist (soloEO): *CO2 emissions challenge for EO community*

17:10 Open floor discussions

~ 18:00 Adjourn and joint walk to restaurant



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18:30 – 20:30 Reception dinner at Restaurant Kanazawa-no-ie
(<https://r.gnavi.co.jp/p389600/>)

WEDNESDAY January 31, 2018

Forest Theme

- 10:00 Manabu Watanabe (TDU/Japan)** – *Deforestation detection with PALSAR-2 ScanSAR HH/HV polarizations for JJ-FAST*
10:20 Thuy Le Toan/Alex Bouvet (CESBIO/France) – *F10: Forest Cover Change and Biomass Mapping using ALOS PALSAR and ALOS-2 PALSAR-2 data*
10:40 Francesco Holecz (sarmap/Switzerland) – *F8: Transparent Forests*

11:00 – 11:20 Coffee

- 11:20 Dirk Hoekman (Wageningen Univ/The Netherlands)** – *F7: Wide area forest monitoring and biomass stratification in Insular SE Asia and Guiana Shield*
11:40 Johan Fransson (SLU/Sweden) – *F6: Retrieval of forest biomass and biomass change with spaceborne SAR*
12:00 Hirdeshni Gautam (SPC/Fiji) – *F5: Improving Forest and Carbon Monitoring in the Pacific Island Region*

12:20 – 13:30 LUNCH

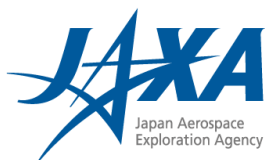
- 13:30 Mari Trix Estomata (GIZ/The Philippines)** – *F4: Utilising L-Band SAR Data for Natural Resource Management in the Philippines*
13:50 Humberto de Mesquita (Brazilian Forest Service/Brazil) – *F3: Forest Structure to Map of Forest Types with ALOS-PALSAR*
14:10 Bruce Chapman (JPL) / Josef Kelldorfer (Earth Big Data) – *F9: Time Series Analysis of SAR and Optical Data for Forest Monitoring*

14:50 – 15:10 Coffee

- 15:30 John Armston (UMD/USA)** – *F1: Detection of Biomass and Structural Change using Japanese L-band SAR, Australia*
15:50 Anthea Mitchell (for Tony Milne, UNSW/Australia) – *F13: (by Anthea) Using multi-temporal and multi-channel ALOS-2 to investigate forest and land cover changes in PNG*
16:10 Christian Koyama (TDU/Japan) – *Seasonality-induced L-band backscatter variations over tropical forests*

16:30 Open floor discussions – K&C the way forward

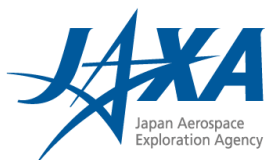
~ 17:15 Closing of KC#24 meeting



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List of Participants – K&C Science Team

Name	Surname	Institution	Country
John	Armston	University of Queensland	Australia
Bruce	Chapman	California Inst. of Technology/JPL	USA
Humberto	de Mesquita	Brazilian Forest Service	Brazil
Trix	Estomata	GIZ	Philippines
Hirdeshni	Gautam	Secretariat of the Pacific Community	Fiji
Johan	Fransson	Univ. of Agricultural Sciences	Sweden
Dirk	Hoekman	Wageningen University	Netherlands
Francesco	Holecz	sarmap	Switzerland
Thuy	Le Toan	CESBIO	France
Alexandre	Bouvet	CESBIO	France
Joaquim	Macuacua	National Directorate of Forestry	Mozambique
Renaud	Mathieu	CSIR	South Africa
Anthea	Mitchell	University of New South Wales	Australia
Hamdan	Omar	Forest Research Institute Malaysia (FRIM)	Malaysia
Joao	Carreira	Univerity of Sheffield	U.K.
Rahmat	Arief	LAPAN	Indonesia
Edson	Sano	IBAMA	Brazil
Maurizio	Santoro	Gamma Remote Sensing	Switzerland
Paul	Siqueira	Univ. Massachusetts	USA
Michail	Urbazaev	Friedrich-Schiller-University Jena	Germany
Bernd	Scheuchl	University of California, Irvine	USA
Lisa	Rebelo	International Water Management Institute	Lao DPR
Pete	Bunting	Aberystwyth University	UK
Kyle	McDonald	City College of New York	USA
Toshio	Okumura	RESTEC	Japan



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List of Participants – Japan internal

Name	Surname	Institution	Country
Ake	Rosenqvist	solo Earth Observation (soloEO)	Japan
Masanobu	Shimada	Tokyo Denki Univ. / JAXA EORC	Japan
Shin-ichi	Sobue	JAXA ALOS-2	Japan
Takeshi	Motohka	JAXA ALOS-4	Japan
Takeo	Tadono	JAXA EORC	Japan
Masato	Hayashi	JAXA EORC	Japan
Tomohiro	Watanabe	JAXA EORC	Japan
Hiroshi	Miyoshi	JAXA EORC	Japan
Izumi	Nagatani	JAXA EORC	Japan
Yousei	Mizukami	JAXA EORC	Japan
Kei	Oyoshi	JAXA EORC	Japan
Masato	Ohki	JAXA EORC	Japan
Takuma	Anahara	JAXA EORC	Japan
Takahiro	Abe	JAXA EORC	Japan
Yukiko	Yaguchi	JAXA EORC	Japan
Irene E.W.	Rachmawan	JAXA EORC	Indonesia
Manabu	Watanabe	Tokyo Denki Univ.	Japan
Christian	Koyama	Tokyo Denki Univ.	Japan
Hironori	Arai	University of Tokyo	Japan
Tsutomu	Yamanokuchi	RESTEC	Japan
Toshio	Okumura	RESTEC	Japan
Takuya	Itoh	RESTEC	Japan
Takashi	Ogawa	RESTEC	Japan
Erina	Sakaguchi	RESTEC	Japan
Risako	Dan	RESTEC	Japan
Atsushi	Sugano	RESTEC	Japan
Toshimi	Nakata	RESTEC	Japan
Kenta	Ishizuka	RESTEC	Japan