



**ALOS Kyoto & Carbon Initiative**  
**22<sup>nd</sup> Science Team meeting (KC#22)**  
**Feb 16-18, 2016 @ RESTEC HQ, Tokyo**

**TUESDAY February 16, 2016**

**Introduction**

**09:20 Welcome** (Masanobu Shimada / Takeshi Motohka, JAXA EORC)

**09:30 Introduction and Agenda** (Ake Rosenqvist, K&C Science Coordinator)

**09:40 K&C issues** (Ake Rosenqvist)

**10:10 PALSAR-2 product provision status to K&C team** (Keiko Ishii, RESTEC)

**10:30 ALOS-2 Basic Observation Strategy, BOS** (Takeshi Motohka, JAXA)

**11:15 – 11:30 Coffee**

**11:30 PALSAR-2 Cal/Val, Mosaic generation and Path products** (Masanobu Shimada, JAXA)

**12:00 Product levels** (Ake Rosenqvist, soloEO)

**12:15 – 13:30 LUNCH**

**K&C Phase 3 final results & Phase 4 plans and first results**

**Wetland Theme (Phase 3: 15 mins, Phase 4: 15 mins)**

**13:30 Lisa Rebelo (IWMI/Lao D.P.R.)**

*KC3: Wetlands of Ethiopia*

*KC4/W1: Nile and Zambezi Basins*

**14:00 Kyle McDonald (CUNY/USA)**

*KC3: Mapping Global Wetlands and Boreal Freeze/Thaw*

*KC4/W3: Mapping Wetlands, Surface Structural Attributes, and Boreal Freeze/Thaw at Regional Scales with JAXA SAR Datasets*

**14:30 Maycira Costa (U. Victoria/Canada)**

*KC3: Understanding spatial wildlife habitat characteristics of the Pantanal using ALOS/PALSAR, RADARSAT-2, and ENVISAT/ASAR imagery: Lakes*



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*diversity and spatial analysis.*

*KC4/W5: Defining spatial-temporal flooding dynamics and habitat connectivity in the Brazilian Pantanal wetland*

**15:00 – 15:20          Coffee**

**K&C Phase 4 – Plans and first result**  
**Wetlands Themes**

15:20 **K&C issues** – Science Team open floor discussions

- Wetlands theme issues (GMW, Ramsar, Peats...)

**16:45 Carlos Pedraza (TNC/Colombia) – W6: Great River Partnership**

**17:10 Toshio Okumura (RESTEC) – W7: Asia-RiCE: Rice Crop Estimation and Monitoring (the role of PALSAR-2)**

**17:35 Richard Lucas (UNSW/Australia) – W2: The Global Mangrove Watch**

**~ 18:00          Adjourn**



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**WEDNESDAY February 17, 2016**

**K&C Phase 4 – Plans and first result (cont'd)**  
**Glaciers & Forest Themes**

**09:20 Bernd Scheuchl (UCI/USA) – G1: Ice Sheet Monitoring using ALOS-2**

**09:45 Masanobu Shimada (JAXA EORC)**

- ALOS-2 PALSAR-2 (2014+) global forest/non-forest maps
- JAXA-JICA collaboration

**10:15 John Armston (AusCover-TERN/Australia) – F1: Detection of Biomass and Structural Change using Japanese L-band SAR, Australia**

**10:40 – 11:00 Coffee**

**11:00 Mari Trix Estomata & Patricia Sanchez (GIZ/Forest Management Bureau, The Philippines) – F4: Utilising L-Band SAR Data for Natural Resource Management in the Philippines**

**11:25 Wolf Forstreuter (SEPAC, Fiji) – F5: Improving Forest and Carbon Monitoring in the Pacific Island Region**

**11:50 Dirk Hoekman (Wageningen Univ./The Netherlands) – F7: Wide area forest monitoring and biomass stratification in Insular SE Asia and the Guiana Shield**

**12:15 – 13:30 LUNCH**

**13:50 K&C issues – Science Team open floor discussions**

- From Kyoto to Paris: Any role for K&C?
- ALOS-2 systematic acquisition strategy (BOS)
  - Assessment of current status
  - Discussion and feed-back to JAXA

**15:40 – 16:00 Coffee**



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**K&C Phase 4 – Plans and first result (cont'd)**  
**Forest Theme**

- 16:00 Francesco Holecz (sarmap/Switzerland) – F8: TransparentForests**  
**16:25 Thuy Le Toan (CESBIO/France) – F10: Forest Cover Change and Biomass Mapping using ALOS PALSAR and ALOS-2 PALSAR-2 data**  
**16:50 Joaquim Macuacua (Nat. Dir. on Forestry/Mozambique) F11: National Forest Monitoring System For REDD+ in Mozambique**  
**17:15 Anthea Mitchell (UNSW/Australia) – F14: Sustainable national forest monitoring using SAR and optical data**  
**17:40 Tony Milne & Marc Williams (by Anthea Mitchell) – F13: Land Cover and Change in Papua New Guinea**  
**18:00 NASA-ISRO SAR (NISAR) – Paul Siqueira (Umass/USA)**

**18:30 – 20:30 Reception dinner**

**Karaoke restaurant *Uōya-ichō***

**Taiyō Bld. 2-3F**

**Shinbashi 3-16-2**

**Minato-ku, Tokyo 〒105-0004**

(〒105-0004 東京都港区新橋 3-16-2 太洋ビル 2～3F)

<http://r.gnavi.co.jp/g076831/> (sorry - in Japanese only)



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**THURSDAY February 18, 2016**

**K&C Phase 4 – Plans and first result (cont'd)**  
**Forest Theme**

- 09:20 Manabu Watanabe (JAXA EORC)** – *L-band ground based radar data analysis from trees*
- 09:45 Hamdan Omar (FRIM/Malaysia)** – *F15: Updating forest cover and assessing aboveground biomass in various tropical forest ecosystems from PALSAR-2 polarizations*
- 10:10 João Carreiras (U. Sheffield/U.K.)** – *F17: Measuring above-ground biomass and its changes over Brazilian tropical secondary forests and savanna woodlands (Cerrado) using L-band SAR data*

**10:35 – 11:00 Coffee**

- 11:00 Bill Salas (AGS/USA)** – *F19: Operational rice mapping and forest structure assessment to support the 3Cs*
- 11:25 Edson Sano (IBAMA/Brazil)** – *F20: Detecting new deforested areas in the Brazilian Amazon using ALOS-2 PALSAR-2 imagery*
- 11:50 Maurizio Santoro (Gamma RS/Switzerland)** – *F21: Coupling radar-based estimates of forest information with biosphere models for improved carbon flux estimation*

**12:15 – 13:30 LUNCH**

- 13:30 Paul Siqueira (Univ. Mass/USA)** – *F22: Use of short-period ALOS-2 observations for vegetation characterization and classification*
- 13:55 Christian Thiel (FSU-Jena/Germany)** – *F24: PALSAR-1/2 Data for Vegetation Cover and Biomass Mapping in Various Climates*
- 14:20 Marcela Quiñones (SarVision/The Netherlands)** – *EXT: Effects of the ecosystem dynamics into the processing of PALSAR-1 for Vegetation types and flooding time series wide area mapping. Examples in Colombia*
- 14:45 Takeshi Motohka (JAXA EORC)** – *ALOS-2 Follow-on mission*
- 15:10 K&C issues** – Science Team open floor discussions
- 15:30 Workshop wrap-up and closure**



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**List of Participants**

Name	Surname	Institution	Country
John	Armston	University of Queensland	Australia
Alex	Bouvet	Centre d'Etudes Spatiales de la Biosphère (CESBIO)	France
João	Carreiras	Univerity of Sheffield	U.K.
Maycira	Costa	University of Victoria	Canada
Trix	Estomata	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)	The Philippines
Wolf	Forstreuter	Secretariat of the Pacific Community	Fiji
Dirk	Hoekman	Wageningen University	The Netherlands
Francesco	Holecz	sarnap	Switzerland
Thuy	Le Toan	Centre d'Etudes Spatiales de la Biosphère (CESBIO)	France
Richard	Lucas	University of New South Wales	Australia
Joaquim	Macuacua	National Directory of Forests	Mozambique
Kyle	McDonald	City University of New York	USA
Stéphane	Mermoz	Centre d'Etudes Spatiales de la Biosphère (CESBIO)	France
Anthea	Mitchell	University of New South Wales	Australia
Hamdan	Omar	Forest Research Institute Malaysia (FRIM)	Malaysia
Marcela	Quiñones	SarVision	The Netherlands
Carlos	Pedraza	The Nature Conservancy	Colombia
Lisa	Rebelo	International Water Management Institute	Lao D.P.R.
Ake	Rosenqvist	solo Earth Observation (soloEO)	Japan
Patricia	Sanchez	Forest Management Bureau	The Philippines
Bill	Salas	Applied Geosolutions, LLC	USA
Edson	Sano	IBAMA	Brazil
Maurizio	Santoro	Gamma Remote Sensing	Switzerland
Bernd	Scheuchl	University of California, Irvine	USA
Paul	Siqueira	Univ. Massachusetts	USA
Christian	Thiel	Friedrich-Schiller-University Jena	Germany



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**JAXA/RESTEC Internal**

Name	Surname	Institution	Country
Masanobu	Shimada	JAXA EORC	Japan
Takeshi	Motohka	JAXA EORC	Japan
Manabu	Watanabe	JAXA EORC	Japan
Rajesh	Thapa	JAXA EORC	Japan
Takeo	Tadono	JAXA EORC	Japan
Nobuyoshi	Fujimoto	JAXA SAOC	Japan
Keiko	Ishii	RESTEC	Japan
Takuya	Itoh	RESTEC	Japan
Toshio	Okumura	RESTEC	Japan
Kaoru	Tsuzuku	RESTEC	Japan
Tsutomu	Yamanokuchi	RESTEC	Japan

**Observers**

Name	Surname	Institution	Country
Daiki	Nakamata	Tokyo Denki Univ	Japan
Kiyooki	Takahashi	Tokyo Denki Univ	Japan
Kentarō	Tonagi	Tokyo Denki Univ	Japan
Yutaka	Toyoda	Tokyo Denki Univ	Japan