

**ALOS**

*K&C Initiative*  
*An international science collaboration led by JAXA*

## **ALOS Kyoto & Carbon Initiative Science Team meeting #14**

**Main JAXA updates, Mosaic session and ALOS-2  
RESTEC HQ June 16, 2010**

Ake Rosenqvist, K&C Science Coordinator

Science Team meeting #14  
JAXA TKSC/RESTEC HQ, Tsukuba/Tokyo, June 14-18, 2010



**WEDNESDAY, June 16, 2010**

**RESTEC HQ/Roppongi, Tokyo – Meeting room 3 (7<sup>th</sup> floor)**

**10:00 Welcome** (Masanobu Shimada, JAXA)

**10:10 K&C project issues** (Ake Rosenqvist)

**10:40 PALSAR (BOS) latest observation results** (K. Tsuzuku, RESTEC)

**10:50 ALOS & PALSAR mission status** (M. Shimada, JAXA)

**11:20 K&C data processing and dissemination** (A. Mukaida/D. Sango, RESTEC)

**12:00 – 13:30 LUNCH**

**13:30 K&C Mosaic status**

- JAXA (Masanobu Shimada)
- JRC (Alex Bouvet)
- JPL (Bruce Chapman)

**14:30 Sahara PALSAR atlas - interactive demo** (Philippe Paillou, U Bordeaux)

**14:50 Mosaic Theme work session – Theme issues** (Lead: Bruce Chapman)

**15:30 Coffee**

**15:45 ALOS-2 mission development status** (M. Shimada)

**16:10 K&C Forest Theme recommendations for ALOS-2 observations - summary**  
from Forest Theme Days discussions (Ake)

**16:30 Way forward for K&C Phase 3**

- Critical assessment of K&C goals and achievements to date
- How can we improve?

**~ 17:45 Adjourn**

**18:00 – 20:00 Reception dinner (3,000 yen/person)**

Restaurant Nicolas (10 mins walk from RESTEC)

AM

K&C and EORC updates

PM

Mosaic Theme session

ALOS-2 update

K&C way forward & assessment of  
Phase 1 and 2 goals and  
achievements

## Topics

- KC booklet
- J-STARS
- New journal special issue
- K&C conference sessions
- Phase 1 report
- Phase 2 report

## K&C booklet

- Publication company contracted (iWord) – final version by mid-July
- Good input from Science Team
  - 26 contributions from 20 (out of 25) science team members
  - 9 in the pipeline
- Last input / feed-back from Science Team members **by Friday**
  - **All** members – provide **HIGH RESOLUTION** figures
  - Final modifications: **Hoekman, Schmullius, Lucas, Shimada, Chapman, De Grandi/Bouvet, Shimada**
  - New contributions: **Mesquitas, Quegan, Others?**
- Both 2009 and 2010 contributions available on the K&C Wiki

<http://intranet.iges.aber.ac.uk/en/subsites/alos-kyoto-amp-carbon-initiative/kampc-booklet-2010>

<http://intranet.iges.aber.ac.uk/en/subsites/alos-kyoto-amp-carbon-initiative/kc-booklet-contributions>



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**IEEE Journal of Selected Topics  
in EO and RS (J-STARS)  
K&C Special Issue**



**Schedule**

Submission of Papers (extended): **Feb. 2010**

Revision on-going (Theme Coordinators: prod reviewers!)

We are on schedule.

Publication of the Special Issue: **4<sup>th</sup> quarter of 2010**

IF - final acceptance of Papers: **Aug. 31, 2010**

Accepted papers will be published on the fly, and available on-line  
on [IEEE Xplore](#) also before publication of the printed issue.



## 12 papers submitted to J-STARS



**Maurizio Santoro Johan Fransson at al.**

Clear-cut detection in Swedish boreal forest using multi-temporal ALOS PALSAR backscatter data

**Dirk Hoekman at al.**

PALSAR wide-area mapping methodology and map validation of Borneo

**Philippe Paillou at al.**

Mapping Subsurface Geology in Sahara using L-band SAR: Potential for Detection of Water Resources

**Masanobu Shimada at al.**

1. Generating Continent-scale High-quality SAR Mosaic Datasets: Application to PALSAR Data for Global Monitoring
2. Ortho-rectification and Slope Correction of SAR Data Using DEM-based Simulated Data and Its Accuracy Evaluation

**Lisa Rebelo at al.**

Eco-hydrological characterization of inland wetlands in Africa using long waveband SAR

**Maycira Costa at al.**

Using ALOS/PALSAR and RADARSAT-2 to Map Land Cover and Seasonal Inundation in the Pantanal

**Richard Lucas at al.**

An Evaluation of the ALOS PALSAR L-Band Backscatter – Above Ground Biomass Relationship over Queensland, Australia.

**Silvana Amaral at al.**

ALOS PALSAR ScanSAR in support of the Brazilian Forest Monitoring Program

**Gildardo Arango (INPE) at al.**

Application of ALOS/PALSAR Product FBD in support of the Brazilian Forest Monitoring Program

**Nathan Torbick (AGS) at al.**

Integrating PALSAR, MODIS, and Landsat for regional mapping of agro-ecological paddy attributes in the Poyang Lake Watershed, China

**Wayne Walker (WHRC) at al.**

Large-area classification and mapping of forest and land cover in the Brazilian Amazon

## **Global Change Biology Remote Sensing of the Environment Special Issue**

- Richard is in discussion with GCB-RSE Editor for a K&C Special Issue
- Both Forest and Wetlands Theme
- Science team members action – provide tentative paper titles and status of completion [planned; in draft; nearly completed etc.]
  - Lucas et al: *Recent response of mangroves to climatic and sea level change, Gulf of Carpentaria, Australia [ready by September]*
  - Lucas et al: *The potential for recovery off carbon stocks and biodiversity in the Brigalow Belt Bioregion, Queensland, Australia [ready by September]*
  - Rebelo, Seyoum, El Mograhby: *Future changes to the Sudd wetland: the potential impacts of upstream interventions [ready by September]*
  - Longépé, Shimada, Rakwatin, Isoguchi, Uryu: *Decadal change of forests in Sumatra [ready by Sept/Oct]*
  - Humberto de Mesquita: *Proposition of ScanSAR data near real-time monitoring tropical deforestation in Brazil [ready by November]*
  - Hoekman: *Consistent annual forest change monitoring in Borneo (by Nov.)*



## Remote Sensing of the Environment Special Issue

- Maycira: Spatial distribution of geochemically different lakes in the Pantanal (by end of 2010)
- Maycira 2: Climatic driven spatio-temporal variability of aquatic vegetation in the lower Amazon floodplain (late 2010)
- Silvana: ALOS PALSAR ScanSAR data in the Brazilian Amazon Forest Monitoring System
- Bill Salas: Methane inventory for California using PASAR and MODIS [ready within 2 months)
- Bill: Java avian influenza risk mapping with PALSAR [by Nov]
- John Lowry: Wetlands health of the Alligator rivers region [by Jan/Feb 2011]
- Shimada + Hokudai + JFRC: Estimation of GHG emissions in central Kalimantan caused by peatland subsidence by InSAR [By Jan 2011]
- Shaun Quegan: Deforestation monitoring in central Sumatra
- Chapman: Orthorectification and calibration of ALOS K&C PALSAR mosaic data (end Nov.)
- Kevin Telmer: (end 2010)
- Ake: K&C intro paper (and 2010)
- Philippe: A new river somewhere... (end of 2010)



## Australian Remote Sensing and Photogrammetry Symposium

- Alice Springs, Australia
- Sept 13-17, 2010
  
- Special Session to be organised
- 8 papers have been accepted (discussed at KC#13)
- Full paper submission deadline: July, 2010 (?)
  
- Contact Richard Lucas for details.

## ALOS Joint PI Symposium

- Final Joint PI Symposium of ALOS Data Nodes
- Venue: Tokyo, Japan
- Date: Nov. 15-17, 2010
  
- Too few K&C members present to arrange special oral session
- Proposal: Special K&C Poster session
- Use K&C posters supplied by KC team at KC#13/14 (no science team member action required)
- Action Item Shimada-san: Investigate feasibility to organise poster session

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## The ALOS Kyoto & Carbon Initiative

### Science Team Reports Phase 1 (2006-2008)

January, 2010

Japan Aerospace Exploration Agency  
Earth Observation Research Center  
2-1-1 Sengen, Tsukuba-shi  
Ibaraki 305-8505, Japan



**NDX-100003**

## Phase 1 final scientific reports

- Report Compendium (230 pp) assembled
- PDF (33 MB) on EORC homepage and K&C Wiki
- Individual reports also available (better resolution)
- Official JAXA publication (JAXA EORC, **NDX-100003**)  
**NOTE: Incorrect numbers shown at meeting. The above reference number is correct**



The logo for the Advanced Land Observing Satellite (ALOS) program, featuring the word "ALOS" in a white, serif font against a background of a satellite image showing a river network in a green and brown landscape.

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Phase 1 report compendium URL:

[http://www.eorc.jaxa.jp/ALOS/en/kyoto/phase\\_1/KC\\_Phase-1\\_ScienceTeamReports\\_JAXA-EORC\\_NDX-100003.pdf](http://www.eorc.jaxa.jp/ALOS/en/kyoto/phase_1/KC_Phase-1_ScienceTeamReports_JAXA-EORC_NDX-100003.pdf)



## Phase 2 Scientific Reports

- K&C Phase 2 end date: Jan 24, 2011
- Reporting mandatory
- IEEE format (same as Phase 1 report)
  - Can be used as basis for paper
- Phase 2 Report submission deadline: November 30, 2010

## K&C Extension phase (Phase 3)

- Expected, but still TBC by JAXA
- Probably 3-year extension (2011-2013)
- Proposals will be required (amendments to existing props ALT new proposals – TBC by JAXA)

## Member report summaries and schedules

- Critical to provide JAXA with feed-back on results obtained, results in the pipeline and changes to your schedule visavi your agreement
- Member reports presented by science team members at KC#13
  - Reports from previous meeting still valid?
  - Update reporting when necessary
- Residual reporting from members absent at KC#14
- [Report template](#) (presentations Friday, AM)

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As always: project news on the [K&C Wiki Bulletin Board](#)

PRIFYSGOL ABERYSTWYTH UNIVERSITY  
Institute of Geography & Earth Sciences  
Home :: The ALOS Kyoto & Carbon Initiative  
View Edit Track Access control  
The Sub-site page has been updated.  
Latest News  
ALOS K&C Initiative  
K&C Bulletin Board  
Science Team meeting KC#12  
Final agenda uploaded  
[Updated 2009/06/15]  
IEEE J-STARS Special Issue  
[updated 2009/06/05]  
Phase 1 reporting  
View Science Team members' contributions  
K&C booklet  
Scientific Reports  
[updated 2009/04/14]  
3rd ALOS PI Symposium  
Hawaii, 9-13 September, 2009  
[Updated 2009/06/15]  
Standard acknowledgement for K&C publications  
[updated 2009/01/16]  
PALSAR Systematic Observation Strategy and RSP maps  
[updated 2009/02/10]

For non-registered users:  
User ID & Password  
**ALOS-KC**

Note - New URL:

<http://intranet.iges.aber.ac.uk/en/subsites/the-alos-kyoto-amp-carbon-initiative>

