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



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WEDNESDAY, June 16, 2010 RESTEC HQ/Roppongi, Tokyo – Meeting room 3 (7th 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)

AM K&C and EORC updates

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)

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





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: 4th 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.





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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

K&C Initiative

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- 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





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

Phase 1 report compendium URL:

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)

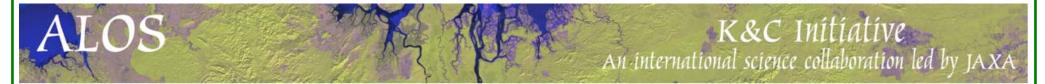
- Expected, but still TBC by JAXA
- Probably 3-year extension (2011-2013)
- Proposals will be required (amendments to existing props ALT new proposals – TBC by JAXA)



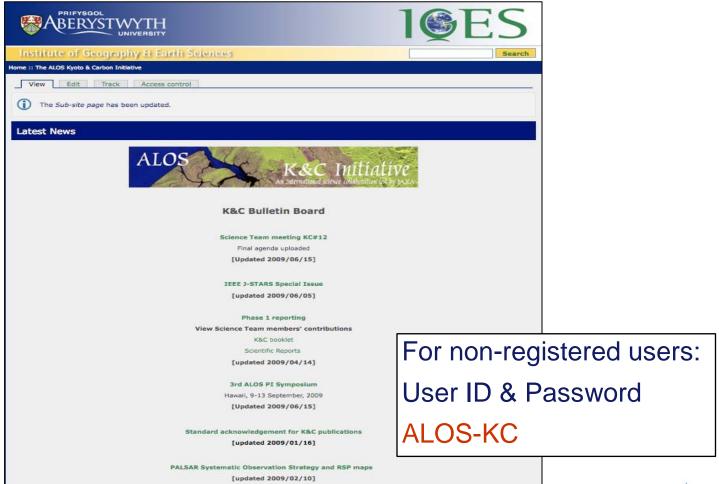
Member report summaries and schedules

- Critical to provide JAXA with feed-back on results obtained, results in the pipeline and chenges 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)





As always: project news on the K&C Wiki Bulletin Board



Note - New URL:

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

