

The logo for the Advanced Land Observing Satellite (ALOS) program, featuring the word "ALOS" in a white, serif font against a dark blue background.A banner for the K&C Initiative, featuring a satellite-style map of a river delta in shades of green and blue. The text "K&C Initiative" is in a white, serif font, and "An international science collaboration led by JAXA" is in a smaller, italicized white serif font below it.

K&C Initiative
An international science collaboration led by JAXA

K&C Product Delivery Report and Schedule for 2010

William Salas
Applied GeoSolutions, LLC

Science Team meeting #13
JAXA TKSC/RESTEC HQ, Tsukuba/Tokyo, January 18-22, 2010

K&C deliverables

Papers and Reports

1. Published

2. K&C Phase-1 report

- Published Papers and Reports:

- Wang, C, Wu, J, Zhang, Y., Pan, G., Qi, J., and W. Salas, 2008, Characterizing L-band scattering of paddy rice in southeast China with radiative transfer model and multi-temporal ALOS/PALSAR imagery, *accepted, IEEE Transactions on Geoscience and Remote Sensing*..
- Zhang, Y., Wang, C., Wu, J., Qi, J., and W. Salas, 2008, Mapping Paddy Rice with Multi-temporal ALOS PALSAR Imagery in Southeast China, *accepted, International Journal of Remote Sensing*.
- Salas, W., Boles, S., Li, C., Yeluripati, J., Xiao, X., Froking, S., and Green, P., 2007, Role of satellite radar observations and biogeochemical models for regional mapping and modeling of greenhouse gas emissions from rice paddies, *Journal of Aquatic Conservation, Marine and Freshwater Ecosystems* 17, 319-329.
- Torbick, Salas, Xiao. Torbick, N. Xaingming, X., Salas, W. 2009. Mapping rice agriculture in monsoon Asia with PALSAR. NASA Land Cover Land Use Change Science Team Meeting 2009. Washington DC.
- Torbick and Salas. Mapping and Monitoring of Rice with Multi-temporal PALSAR: Developing Spatially and Temporally Explicit Products for Modeling Methane Emissions at Regional to National Scales. International GEO Workshop on Synthetic Aperture Radar (SAR) to Support Agricultural Monitoring

K&C deliverables

Papers and Reports

2. Submitted/in preparation

- **Torbick, Salas. Xiao. 2009. Monitoring rice agriculture in the Sacramento Valley, USA with multitemporal PALSAR and MODIS imagery. JSTARS (in review).**
- **Torbick, Salas, et al. 2009 Integrating PALSAR, MODIS, and Landsat for regional mapping of agro-ecological paddy attributes in the Poyang Lake Watershed, China. CJRS (accepted).**
- **Salas, Torbick, et al. 2010 Assessing California rice agriculture greenhouse gas emissions with DNDC, MODIS and PALSAR products. (in prep).**
- **Salas, Torbick,, et al. 2010 Mapping rice agroecological attributes to assess methane emissions in the Sacramento Valley. (in prep)**

K&C deliverables

Data sets and Thematic products (mosaics, classification maps etc.)

1. Completed and Delivered to JAXA

- *None: waiting for field validation results.*

2. Completed Rice Maps, but not yet delivered

- *Poyang Watershed, China 2007 Complete & Validated*
- *California, 2007 USA Complete & Validated*
- *SE Asia 2007 Complete & being Validated – results are bad, will redo with SLT data*
- *Java 2007 Complete & being Validated (3 year time lag...)*

K&C deliverables

Data sets and Thematic products (mosaics, classification maps etc.)

3. To be completed during 2010

- *K&C Booklet contribution with latest results (next week)*
- *Rice extent, cropping intensity and hydroperiod:*
 - *California 2008/09: May 2010*
 - *Java 2009: October 2010*
 - *SE Asia 2008/2009: October 2010*
 - *India 2008: TBD? China 2009: TBD? 2010*
- *SE land cover: PALSAR (mosaics and some WB) and Landsat GLS merged product*