

The logo for the Advanced Land Observing Satellite (ALOS) program, featuring the letters 'ALOS' in a white, serif font against a dark blue background.A banner for the K&C Initiative, featuring a satellite image 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, white, sans-serif font below it.

K&C Product Delivery Report and Schedule for 2010

Silvana Amaral
Dalton Valeriano
Arango Gildardo

INPE
Brazilian National Institute for Space Research

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

K&C deliverables

Papers and Reports

1. Published (please provide PDF file)

- K&C Phase-1 report
- “Significant finding” on K&C Wiki
- Amaral, S. ; Valeriano, D. M. ; GILDARDO, A. S. ; Ximenes, A. C. ; Souza, A. F. . Imagens ALOS/PALSAR Kyoto & Carbon no programa de monitoramento da Floresta Amazônica Brasileira por satélite. In: XIV SIMPÓSIO BRASILEIRO DE SENSORIAMENTO REMOTO, 2009, Natal, RN. **XIV SIMPÓSIO BRASILEIRO DE SENSORIAMENTO REMOTO**. São José dos Campos, SP : INPE, 2009. p. 5065-5072.
- Amaral, S., Valeriano D.M.. ALOS-PALSAR data assimilation into INPE’s Brazilian Amazon Environmental Monitoring Program. **CRESDA Visit** – São José dos Campos, SP, 2010
- Amaral, S. ; Valeriano, D. M. ; Gildardo, A. S. . Uso das imagens ALOS-PALSAR pelo INPE. 2010. (Apresentação de Trabalho/Seminário). ... VII **Seminário Técnico-Científico de Análise dos Dados do Desmatamento na Amazônia Legal**. Brasília, Ministério do Meio Ambiente e Ministério da Ciência e Tecnologia. <http://www.obt.inpe.br/prodes/seminario2010/>

2. Submitted/in preparation

- *JSTARS, 2010, special K&C issue (ALOS/PALSAR Product FBD - into the Brazilian Forest Monitoring Program) [accepted]*
- *JSTARS, 2010, special K&C issue (ALOS PALSAR K&C ScanSAR into the Brazilian Forest Monitoring Program) [submitted]*
- *Global Change Biology (“ALOS PALSAR contribution for Brazilian Amazon forest monitoring”) [planned]*

K&C deliverables

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

1. Completed and Delivered to JAXA

- *K&C Booklet contribution v1*

2. Completed, but not yet delivered (please deliver ASAP)

- *Brazilian Legal Amazon Mosaic ALOS PALSAR ScanSAR - Apr/May/Jun - 2008 (SLT2)*
- *Brazilian Legal Amazon Mosaic ALOS PALSAR ScanSAR - Jan/Feb/ - 2010 (BSL1)*

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*
- *Brazilian Legal Amazon Mosaic ALOS PALSAR ScanSAR - Mar/Apr – 2009 (delivery 2010)*
- *Brazilian Legal Amazon Mosaic ALOS PALSAR ScanSAR – Aug/Sep/Oct – 2009 (delivery 2010)*
- *Assimilation of PALSAR ScanSAR in INPE's Amazon Monitoring System:*
 - *PALSAR ScanSAR based deforestation detection system "DETER-R" that delivers to IBAMA a new deforestation map in 10 days (delivery Dec/2010)*

4. To be completed during 2011

- *Comparison of yearly deforestation rates from PRODES and K&C ALOS PALSAR ScanSAR for the years 2008, 2009, and 2010*
- *PALSAR ScanSAR based deforestation detection system "DETER-R" that delivers to IBAMA a new deforestation map in 10 – 3 days (2011)*

Long Term Goal

Context

- *Brazil has stated that It will reduce its Green House Gas emission by circa 40% by 2020 by, among others actions, reducing deforestation in the Amazon by 80% in relation to 1996-2005 baseline (19,500 km²) and by 40% in the Cerrado (neotropical savanna)*
- *Goal :*
 - *To include PALSAR and (its successors...) large scale products into deforestation monitoring and controlling system*



BIOMA	AREA (km ²)	%
AMAZONIA	4196943	49.29
CERRADO	2036448	23.92
MATA ATLANTICA	1110182	13.04
CAATINGA	844453	9.92
PAMPA	176496	2.07
PANTANAL	150355	1.77
TOTAL	8514877	