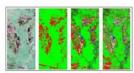
# Forest and Land Use/Cover Mapping of Central Kalimantan, Indonesia

#### Mid-term results

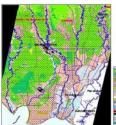
## Project objectives

To create forest and land use / cover maps of insular South East Asia to support spatial planning by provincial governments and REDD monitoring. It is pursued to make yearly updates following the FAO Land Cover Classification System (LCCS).

#### Results



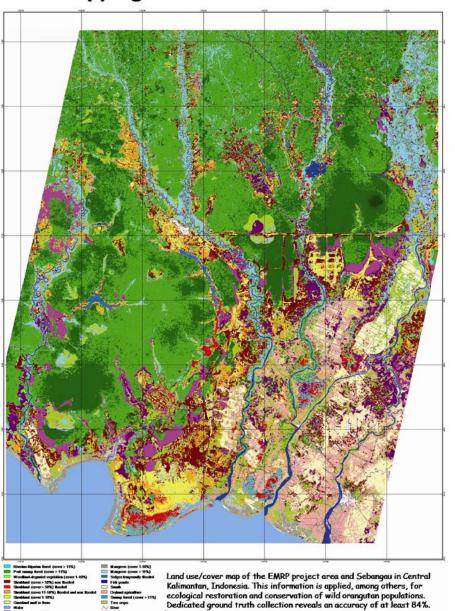
Land use/cover map is made of the Ex Mega Rice Project area (EMRP). This Map is used for spatial planning by the Provincial Government, ALOS PALSAR images have been classified using an unsupervised classification algorithm developed for SAR images (Hoekman et al., 2007; Tran et al., 2005). The approach implemented in IDL/ENVI uses an advanced type of finite mixture modelling and produces a series of classification models.



Dual Pol (HH-HV) and Wide Beam ingle Pol (HH) ALOS PALSAR s for mapping land use/cover ailable maps for the EMRP area by increasing the accuracy and detail of the classification. L-HH and L-HV data contributes to sprove information related to biomass levels and vegetation cover type. This map shows the suitability of ALOS PALSAR data for LULC

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Colour composite of the Fine Beam Dual Pol HH-HV mosaic and the HH Wide Beam images. This composite was the only input for the classification.

#### Data used:

ALOS PALSAR Dual Pol (HH-HV) mosaic of South East Asia ALOS PALSAR ScanSAR HH (WB1 resampled to 50 m.)

### Reference data:

- +LANDSAT-7 ETM: Path row 118-062, 2000-07-16
- ·MODIS Tree cover percentage, University of Naryland / SDSU MODIS VCF 2005.
- \*Fire hotspot data. Database NASA/ University of Maryland MODIS, ESA/ESRIN AATSR,
- •Other LUI.C maps:

  •Ministry of Forestry Peta Penuputan Lahan Provinsi Kalimantan Tengah 2003

  •Ministry of Forestry / BAPPEDA Peta Kawasan Vegetasi 2003

  •Bakasurtanal Liputan Lahan 1:250,000 LUI.C map 2003EU

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