ALOS

K&C Initiative

An international science collaboration led by JAXA

Mapping wetlands (and other things) in the Alligator Rivers Region of northern Australia

A key objective is to monitor the health of floodplain flora and fauna!

Current remote sensing activities

Implementing multi-sensor, multi-scalar remote sensing framework for the Alligator Rivers through :

- Mapping aquatic and woodland communities on the Magela floodplain
  - mapping biomass on floodplains
  - monitor potential impacts from Ranger uranium mine
- Assessing and monitoring rehabilitation of minesite
  - Vegetation regrowth and biomass in trial areas
  - Erosion monitoring
  - Creation of very-high resolution digital elevation models

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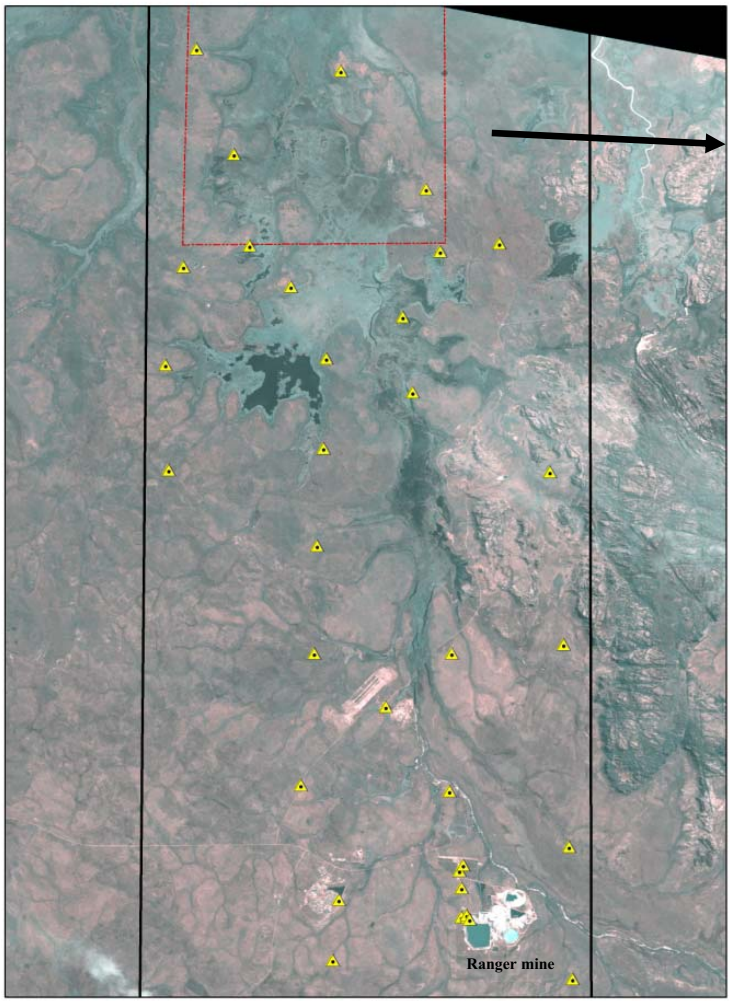
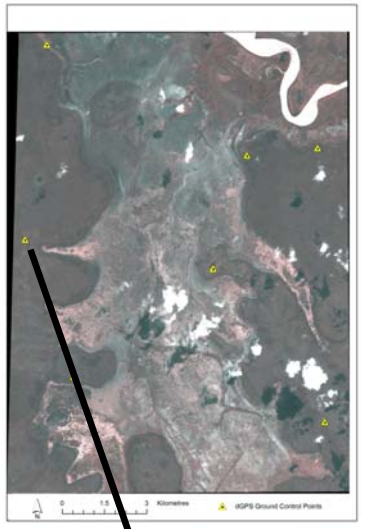
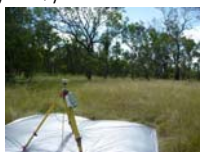


ALOS-AVNIR image acquired April 2007

World View 2 imagery acquired May 2010



3.5m x3.5m targets were laid out and used as ground control points; positions were recorded with differential GPS



Floodplain vegetation biomass has been sampled from multiple locations during the current field season.

Datasets currently acquired

- World View2
- QuickBird
- ALOS-PRISM
- ALOS-AVNIR2
- Radarsat

Other data sources planned

- ALOS-PALSAR
  (biomass measurements, inundation mapping)

Australian Government

Department of the Environment, Water, Heritage and the Arts

Supervising Scientist