ALOS

K&C Initiative

An international science collaboration led by JAXA

Wetland extent, inundation patterns and vegetation change in the Lower Mekong River Basin

Project objectives

Using JERS and PALSAR data: 1. Establish a baseline wetland inventory; and 2.Apply change-detection, multi-variate analysis, segmentation and classification techniques to: a) Map spatial / temporal variations in wetland ecosystems; and b) Map inundation patterns and hydro-period.

Results

PALSAR data shows clearly changes in flooding patterns and differences between tree and macrophytic vegetation.

K&C Science Team members

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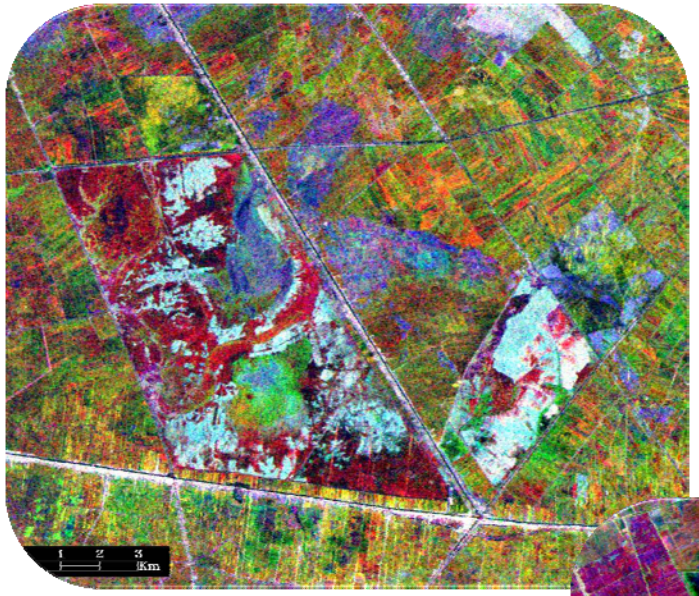
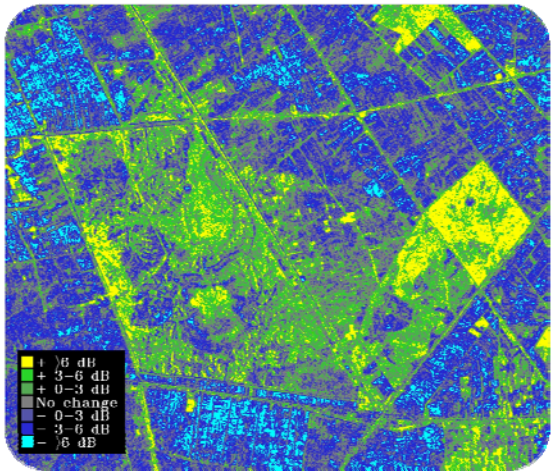
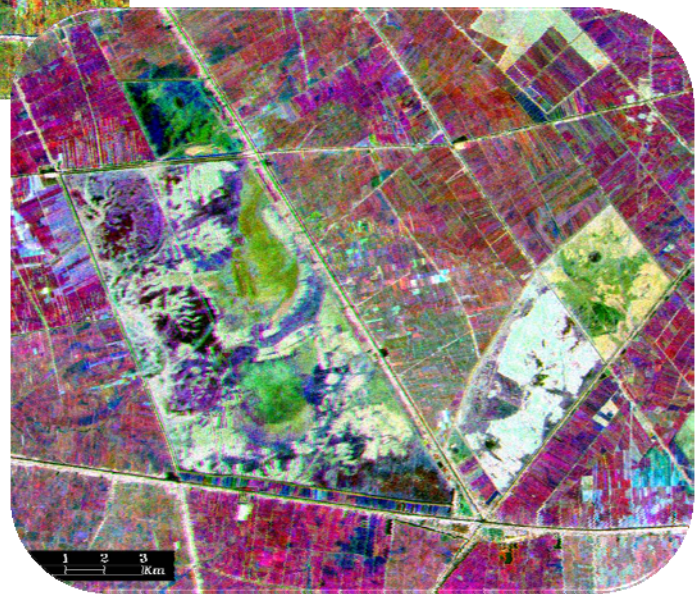


JERS-SAR: 1998 June/Feb/Sept



Change: March1998 to January2007

Principal study sites



PALSAR: Jul'06/Jan'07/Feb'07 (RGB)

ALOS PALSAR data used

10+ scenes FBS/FBD

Other data sources

21 scenes JERS-1 SAR

Tram Chim NP

A remnant of Plain-of-Reeds wetland ecosystem. Mixture of seasonally inundated grassland, open swamp and regenerating *Melaleuca* forest. Under threat from land-use activities, mimosa invasion, pollutant discharge and alteration of natural water levels.

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