

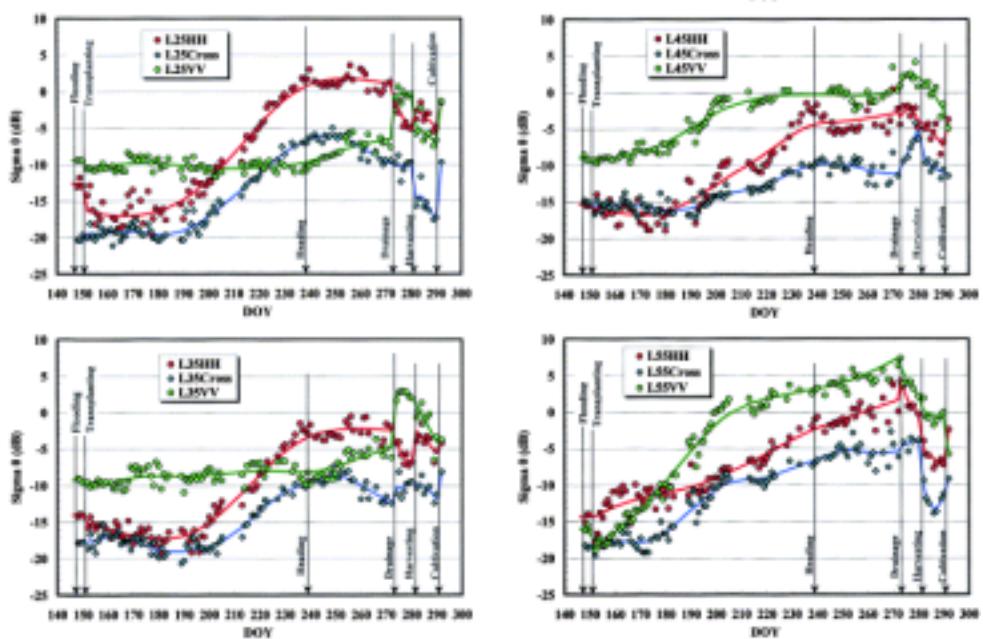
High temporal and spatial variability

- temporal : variation during the cycle due to interaction mechanisms with growing plants
- spatial : variation among fields due to non uniformity of cultural practices



Mapping method based on temporal change

ALOS polarisation and incidence



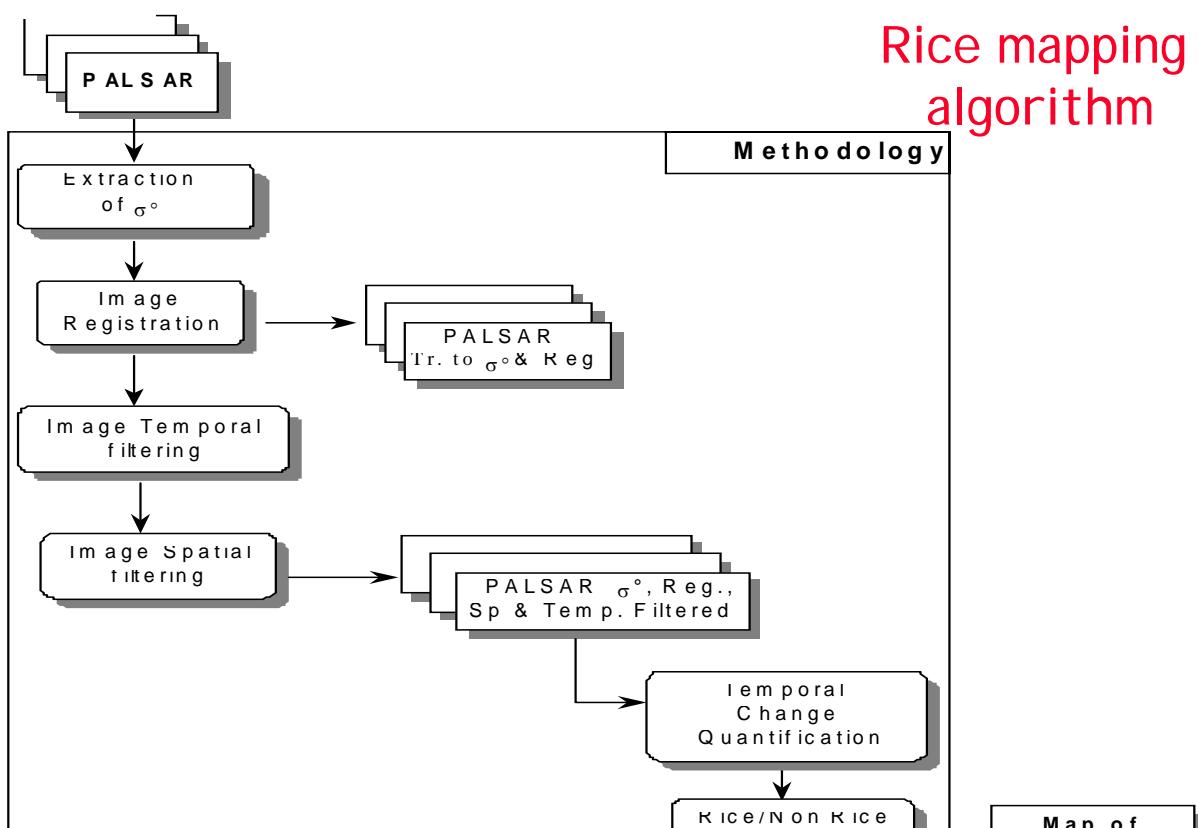
PALSAR polarisation and incidence

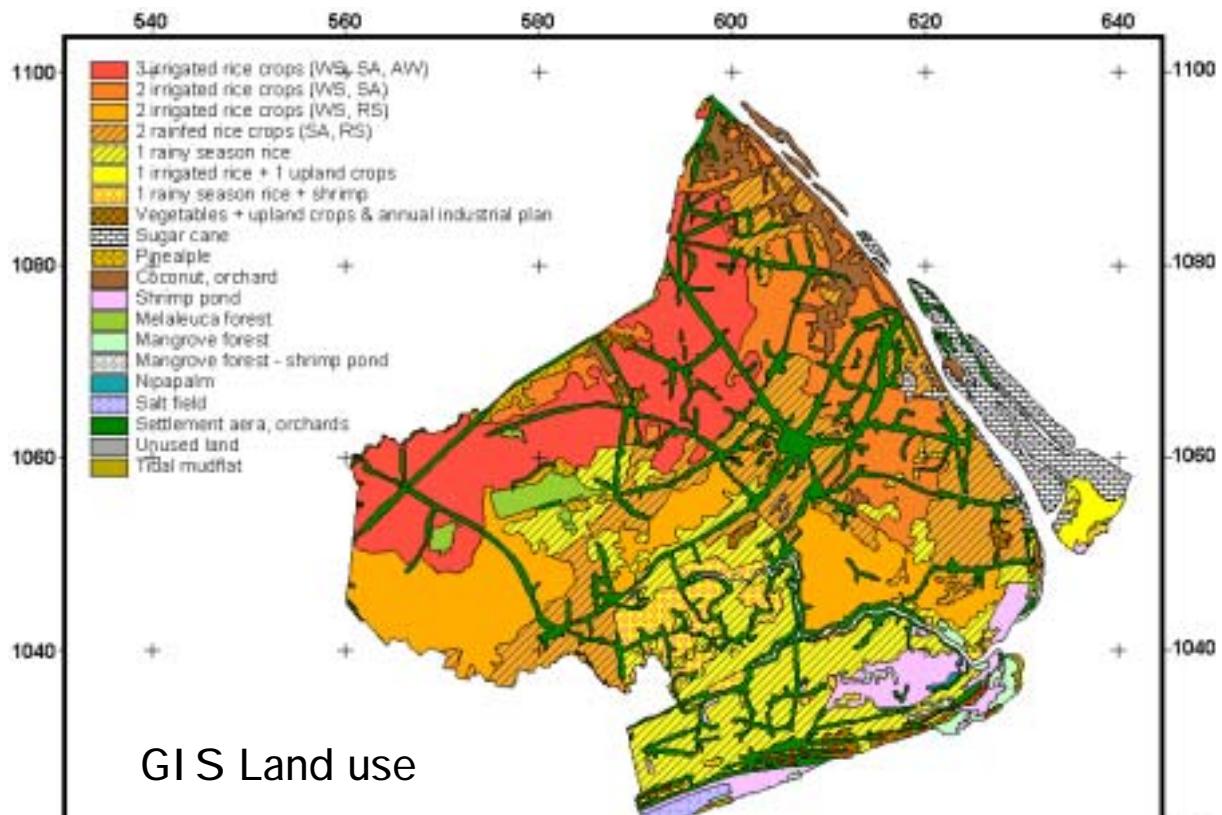
- Scansar HH 5 beams

Sufficient temporal change 25° to 55°

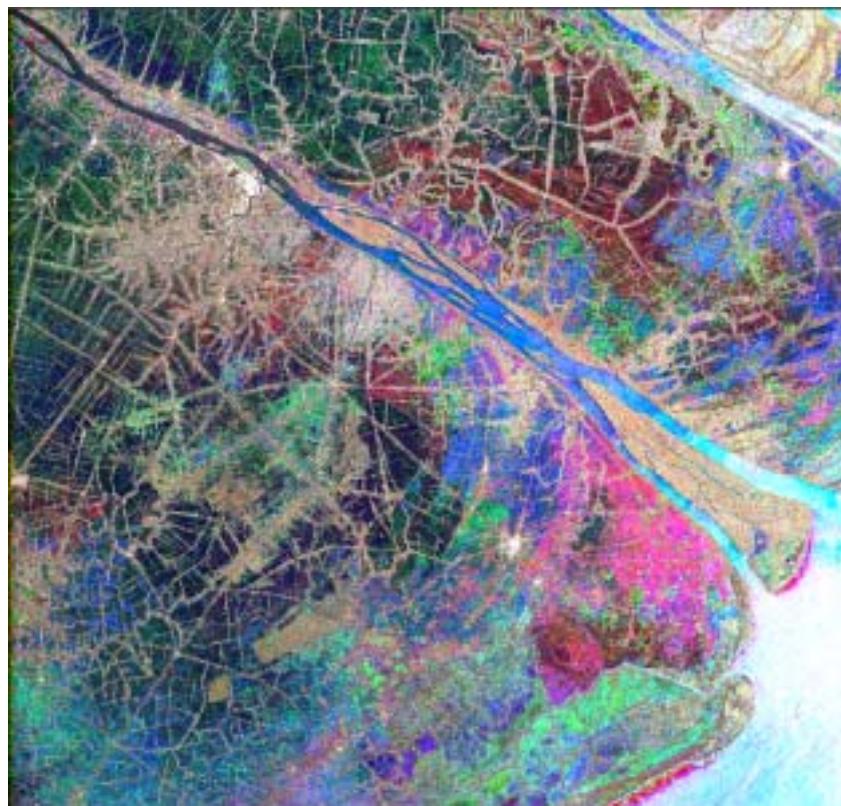
- PALSAR dual pol

HH & HV, 34° better than 45°

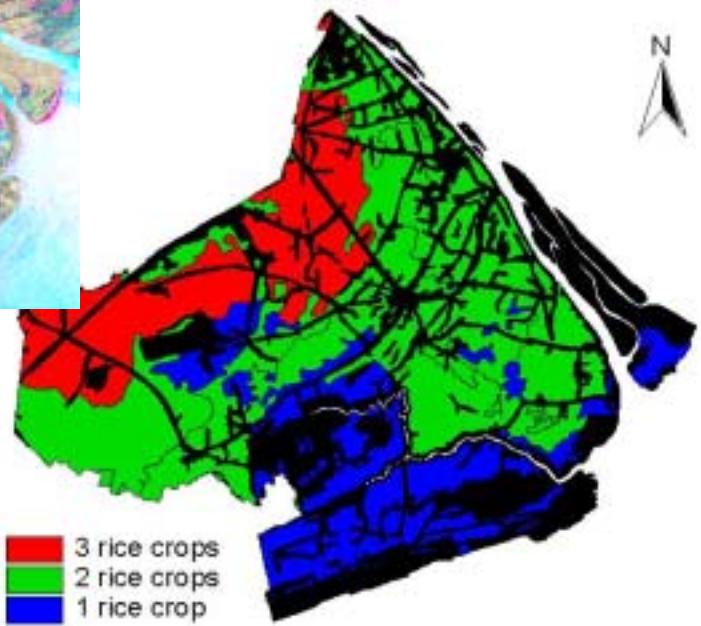
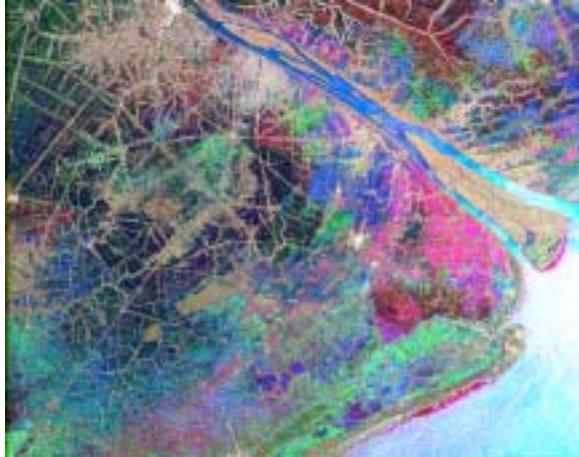




Rice Crop	Local Name	Variety	Planting Method	Planting	Harvest
Winter – Spring	Dong Xuan (DX)	Modern	Direct seeding	Nov / Dec	Feb / Mar
Summer – Autumn	He Thu (HT)	Modern	Direct seeding	May / June	Aug / Sept
Rainy Season	Mua (M)	Traditional	Transplanting	Jul / Aug	Dec / Jan
	Thu Dong (TG)	Modern	Direct seeding or transplanting	Sept / Oct	Nov / Dec

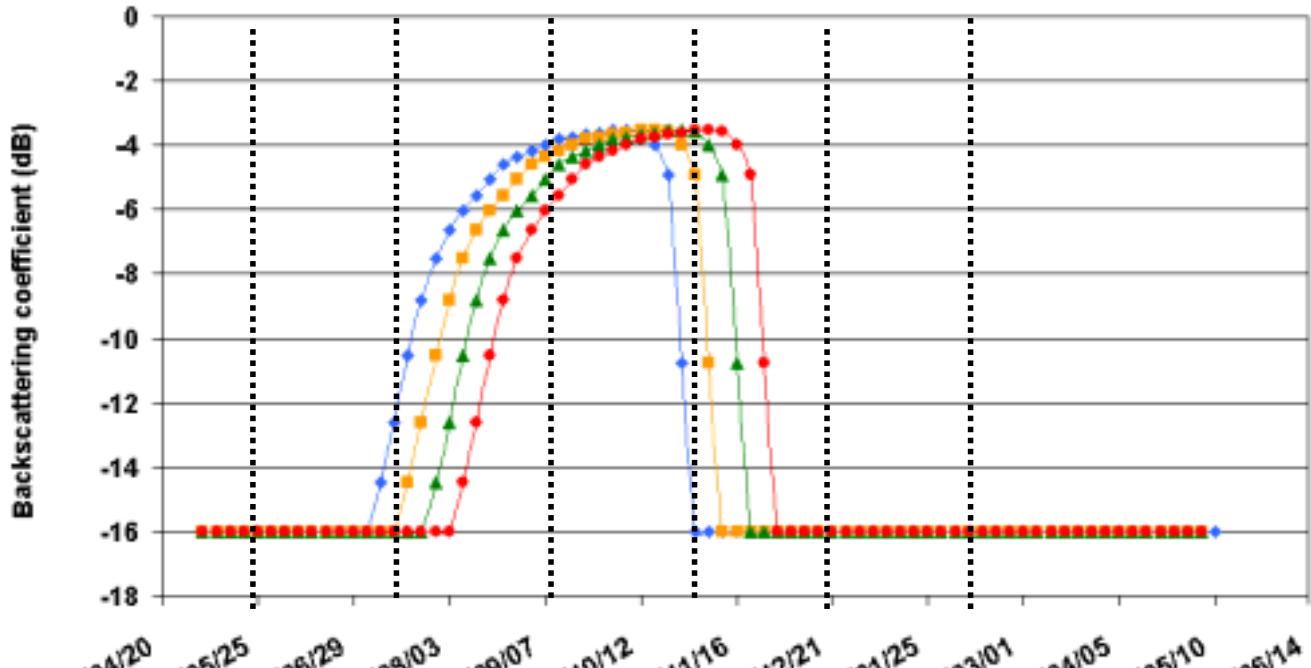


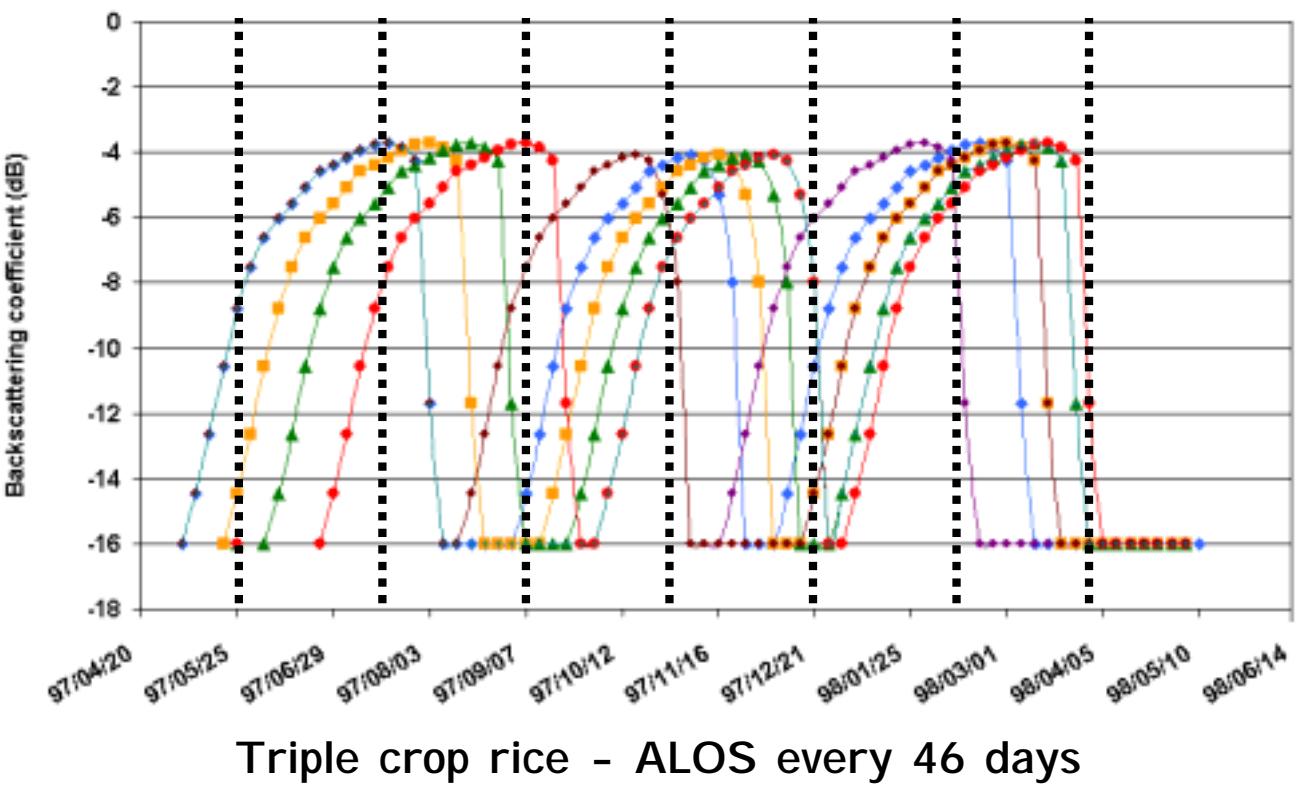
Red: October 1997
 Green: December 1997
 Blue: January 1998



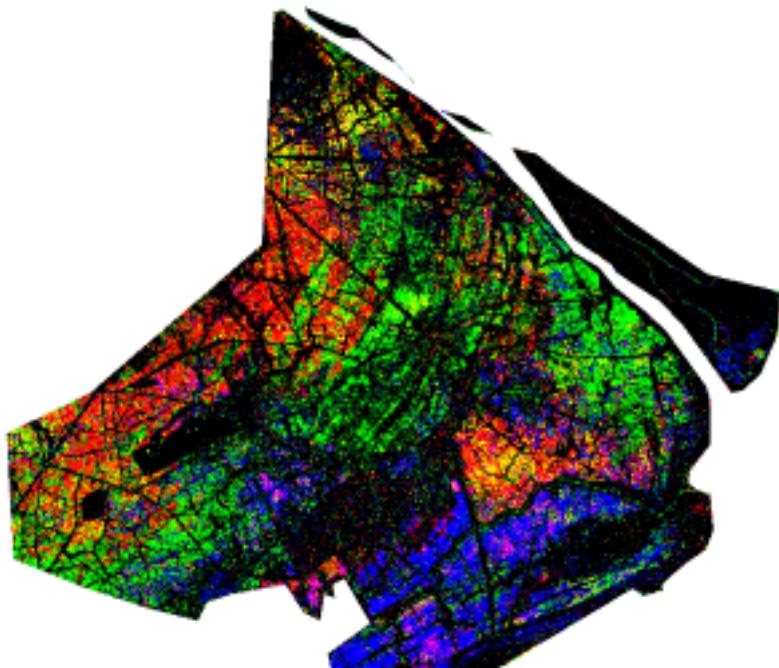
Rice cropping systems

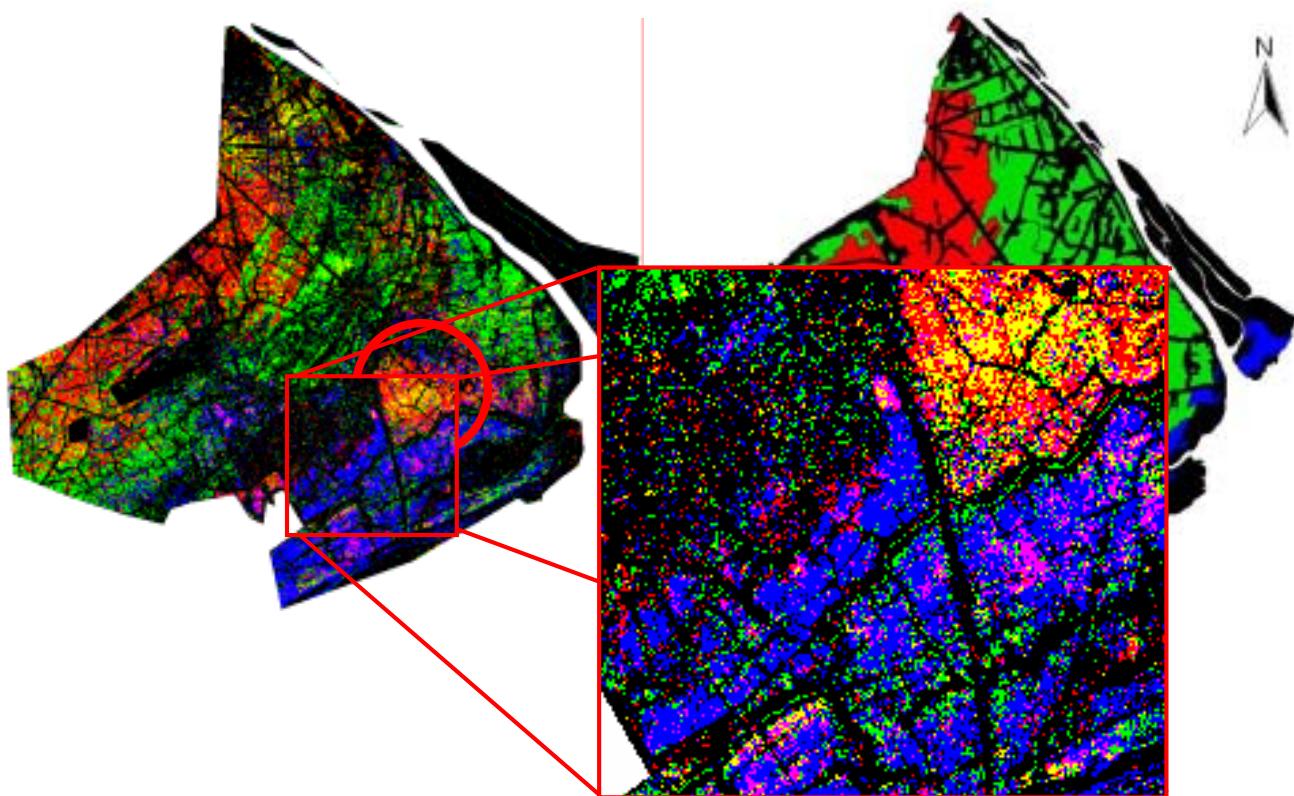
Simulation of backscatter temporal change





Rice cropping systems Result





ORGANISATION

- Network of observations/ ground data collection for method development and validation
 - ✓ China
 - ✓ India
 - ✓ SE Asia peninsular
 - ✓ SE Asia insular
- Algorithm development team
- Data exploitation team

- Algorithm development using muti temporal Scansar data (single, double, triple crop)
 - Validation using ground data
 - Generation of map of rice, cropping system and flood duration at regions
 - Validate the product
 - Delivery of final product
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