




SATELLIGENCE

Mapping from space

large scale space maps for agriculture, surface water and forests

An aerial photograph of a lush, green landscape. The terrain is hilly and covered in dense vegetation, including forests and agricultural fields. A small settlement with several buildings is visible in the middle ground. The overall scene is vibrant and healthy, representing a sustainable environment.

Earth Observation for Society & Sustainable Environment

Actionable information

to manage risks to

natural capital

An aerial photograph of a coastal city. A large river flows through the center, with several large cargo ships and smaller boats. The city is densely packed with buildings, mostly with dark roofs. In the background, there are green, forested hills under a hazy sky. The text 'Forests', 'Agriculture', and 'Surface Water' is overlaid on the image in white, bold font.

Forests

Agriculture

Surface Water



Forests

Baseline maps

Land cover & land cover change

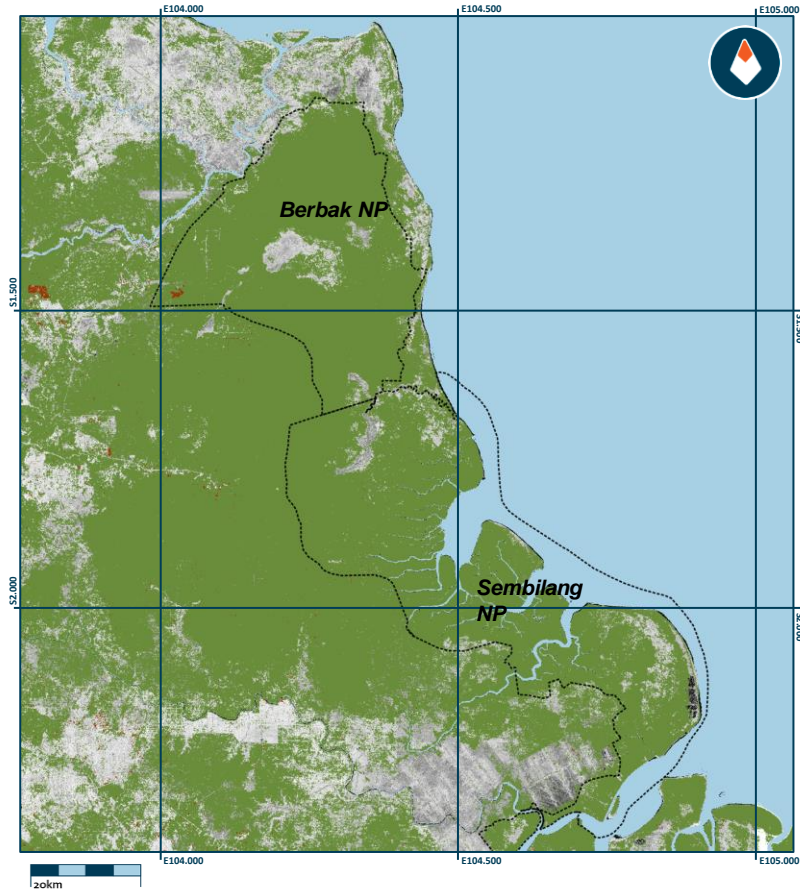
Deforestation monitoring

Berbak NP, Indonesia in 1989

As observed with optical RS data (Landsat)

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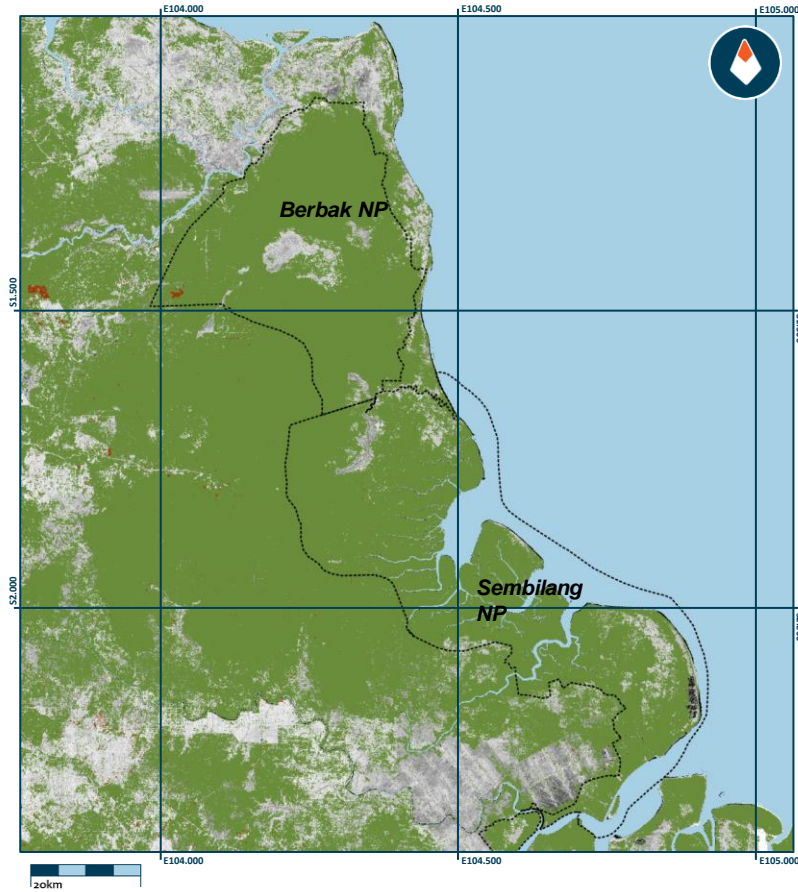


Baseline forest map Berbak NP, Indonesia

Legend

- Water
- Forest





Forest loss in Berbak NP, Indonesia

Between 2001 and 2017

Legend

- Water
- Forest
- New forest loss in 2001



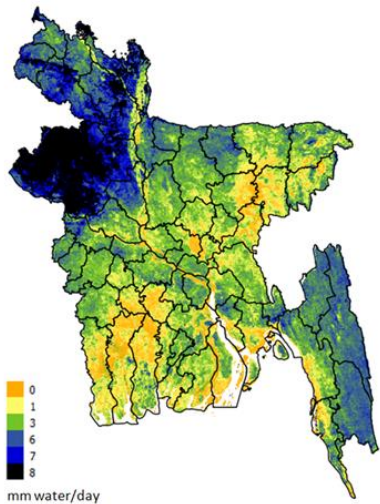


Agriculture

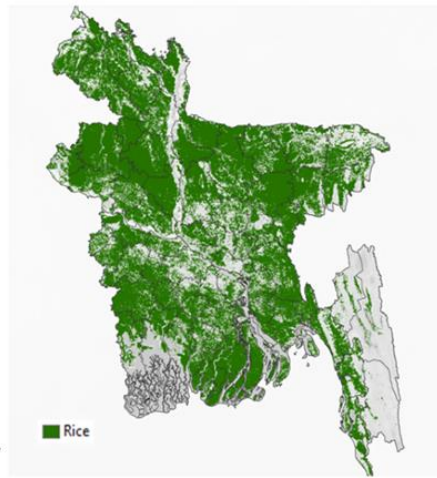
Crop type maps

Growth stage time series

Crop rotation monitoring



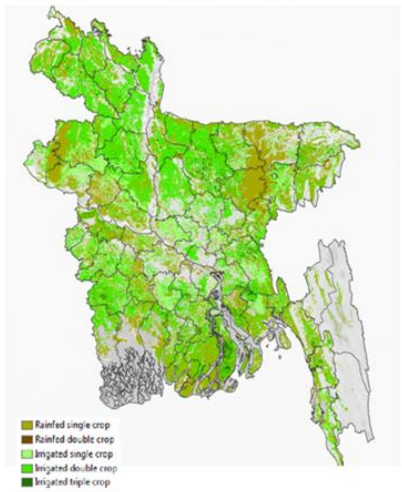
Actual evapotranspiration
Real water consumption (mm/day)



Crop type (rice)

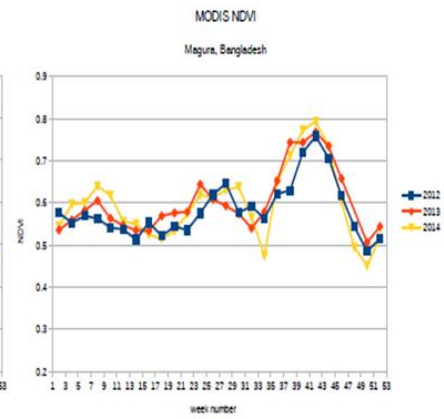
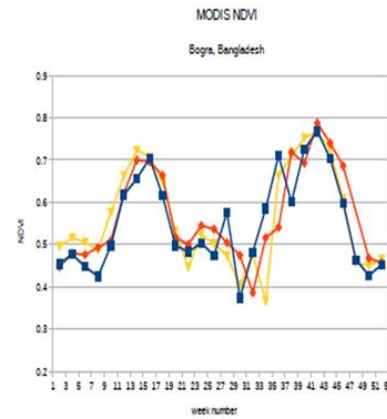
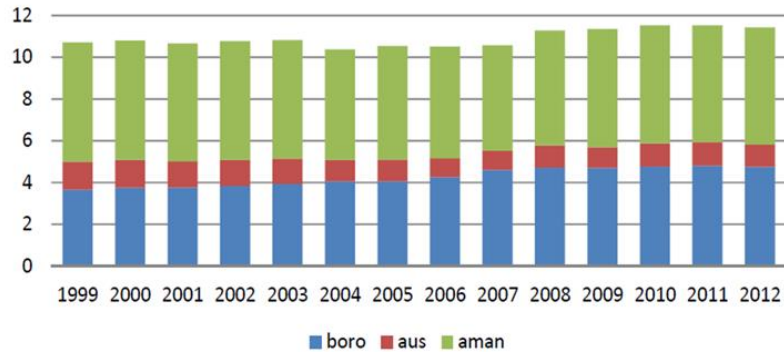


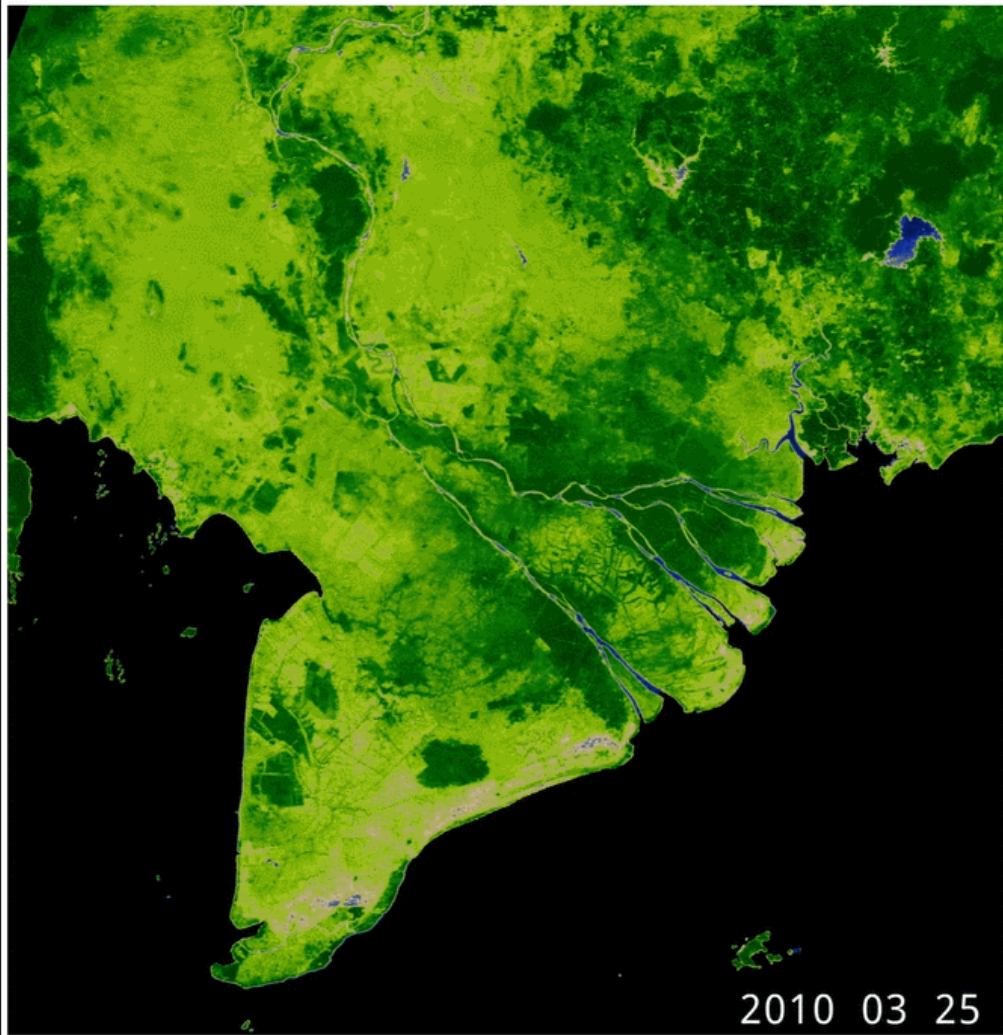
Irrigated vs rainfed crops
(rice)



Cropping intensity (rice)
One, two, three seasons

Bangladesh rice area per season (million ha)







Crop Growth and Inundation

Mekong Delta, Vietnam

Sequential day by day imaging of flooding and vegetation growth. Shown over a period of 14 years (June 2002 until September 2016).

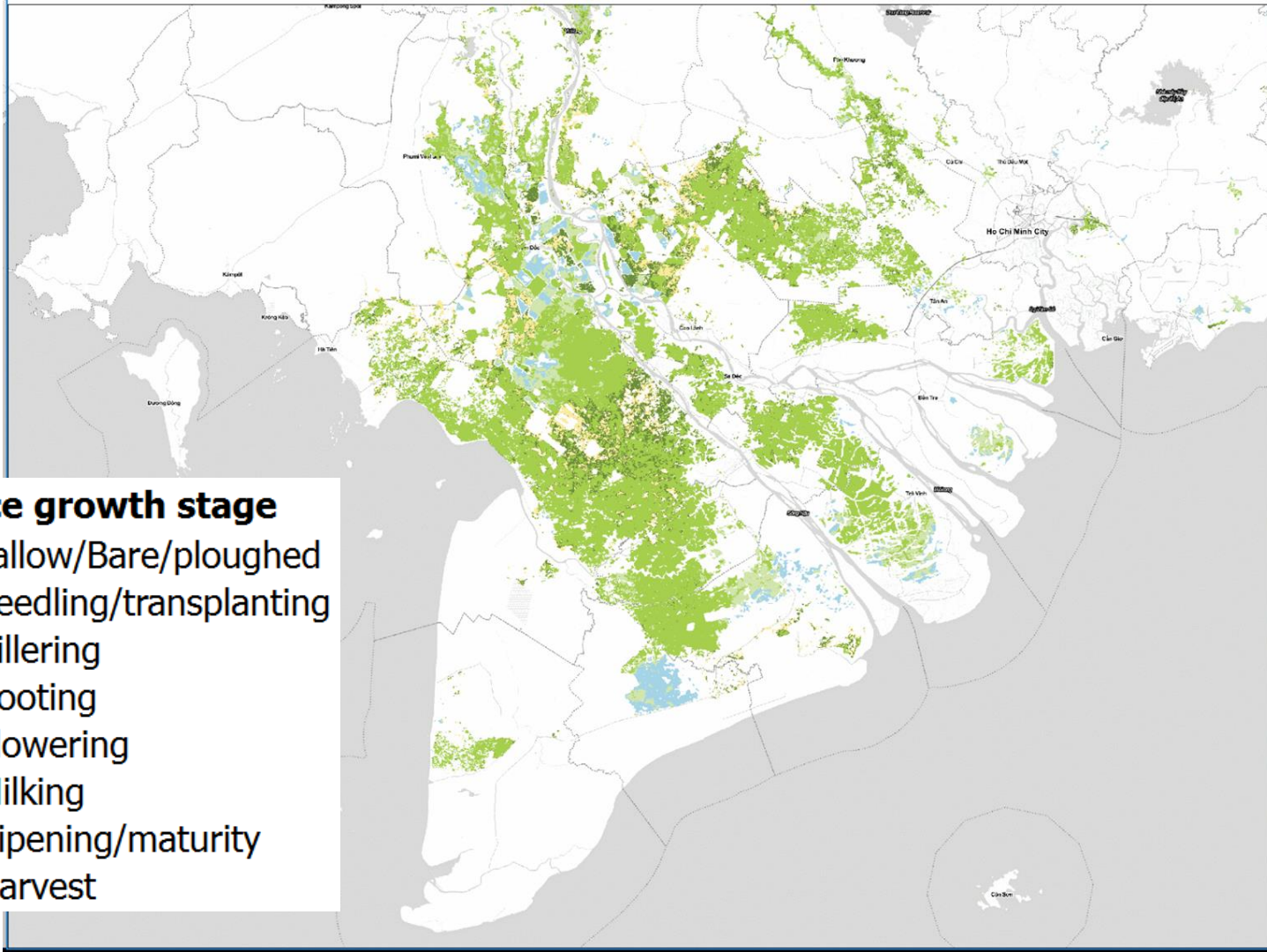
Images were generated using satellite data from NASA EOSDIS Land Processes DAAC, USGS Earth Resources Observation and Science (EROS) Center.

Processed by Satelligence.

-  Crop growth
 -  Inundation
-

Rice growth stage

- Fallow/Bare/ploughed
- Seedling/transplanting
- Tillering
- Booting
- Flowering
- Milking
- Ripening/maturity
- Harvest



An aerial photograph showing a large area of agricultural land that has been inundated with water. A winding river or stream flows through the center of the flooded area. In the upper right, there is a reservoir or a large pond. The surrounding land is green, indicating vegetation, and there are some buildings and roads visible in the lower right. The text is overlaid on the left side of the image.

Surface Water

Reservoir maps

Inundation monitoring

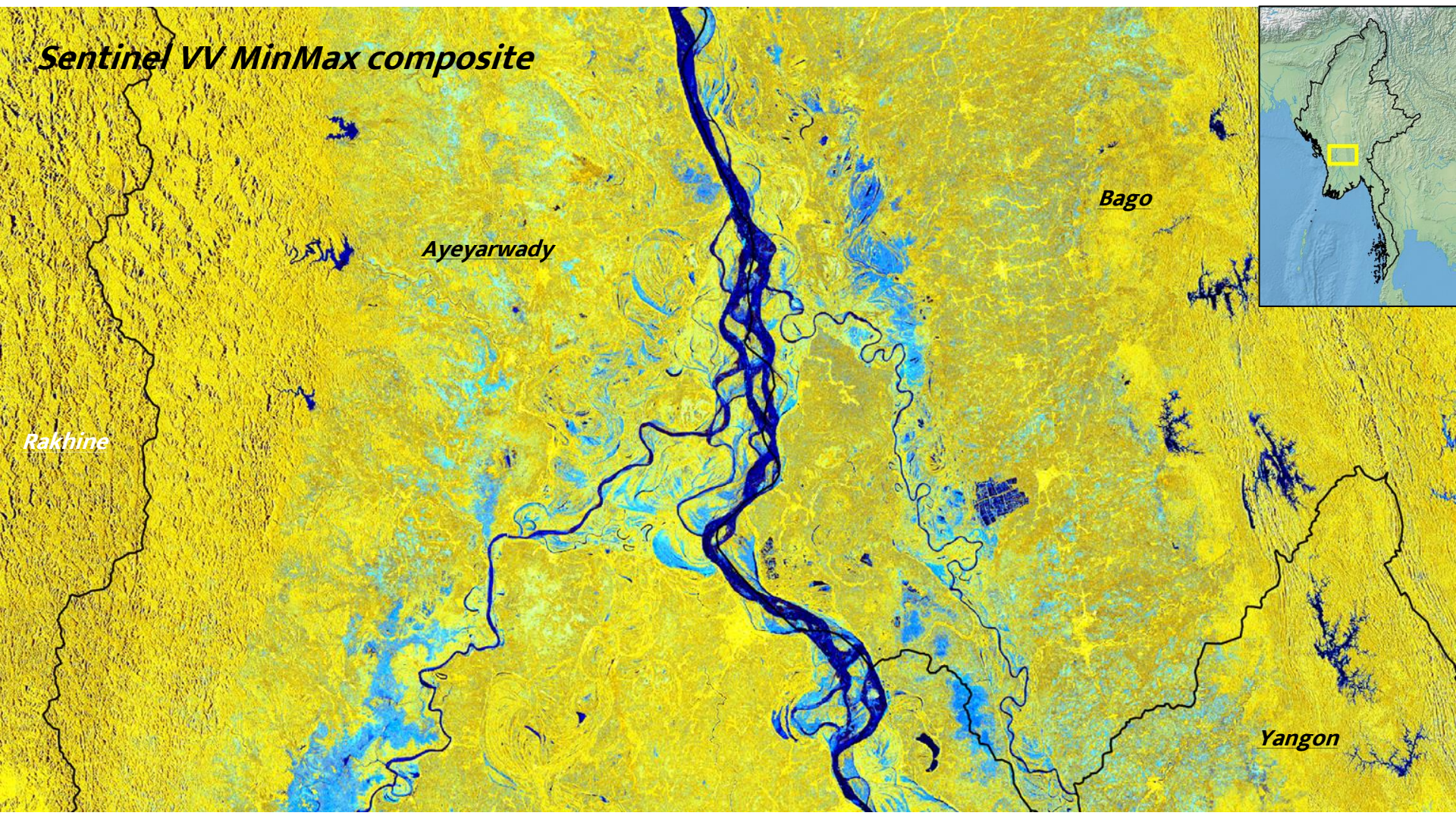
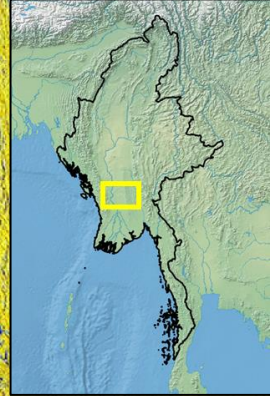
Sentinel VV MinMax composite

Rakhine

Ayeyarwady

Bago

Yangon



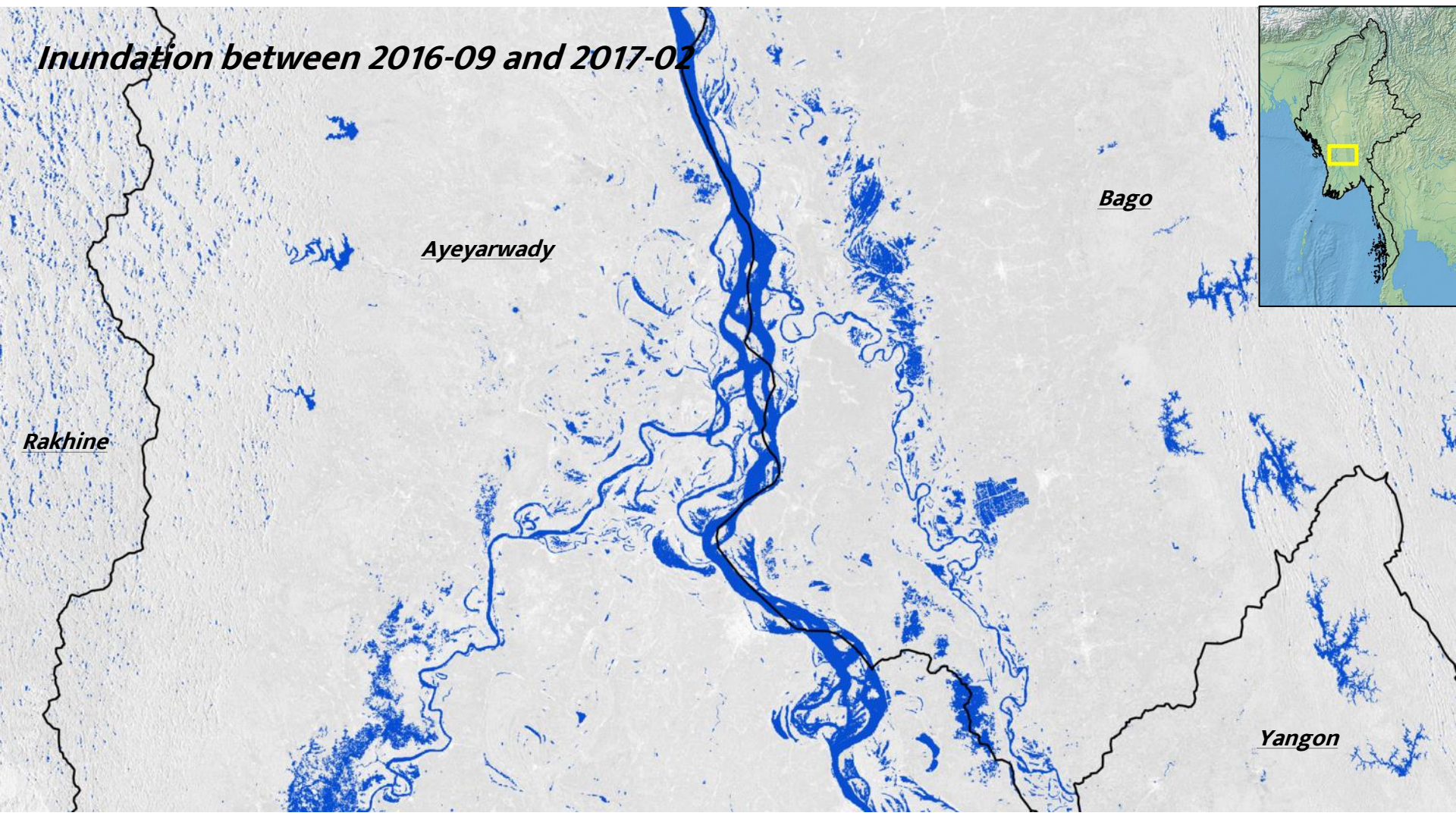
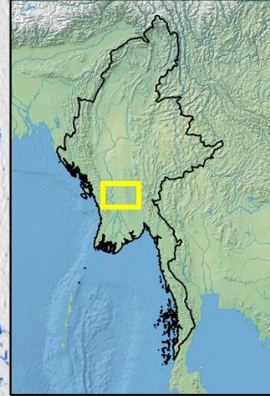
Inundation between 2016-09 and 2017-02

Rakhine

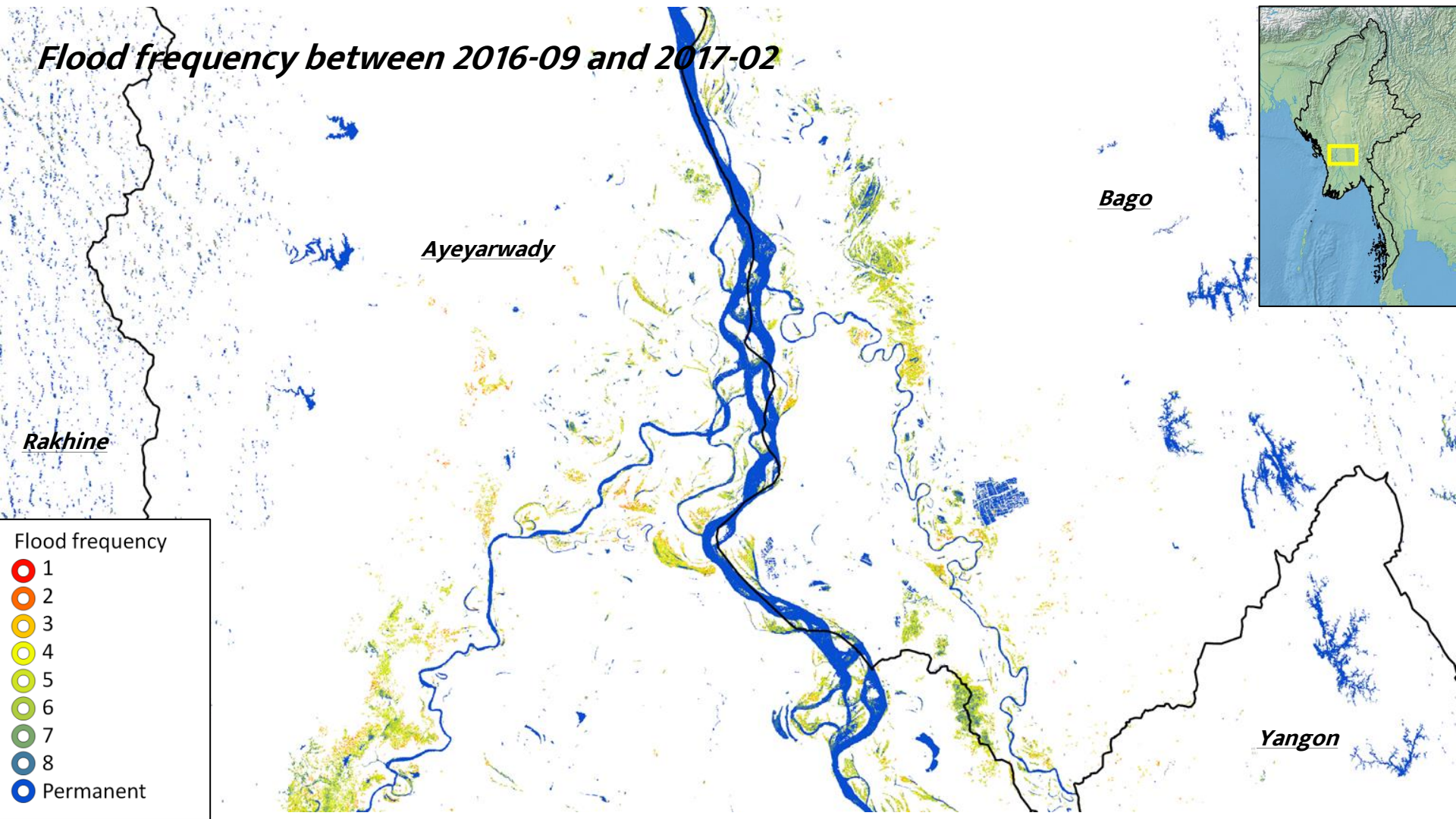
Ayeyarwady

Bago

Yangon



Flood frequency between 2016-09 and 2017-02



An aerial photograph of a coastal town and harbor. A river flows through the town, with numerous buildings and structures along the banks. Several large ships are docked at the harbor. The town is densely packed with buildings, and there are green spaces interspersed throughout. The water is dark blue, and the surrounding land is lush green.

up to date,

actionable intelligence,

tailored to your situation