

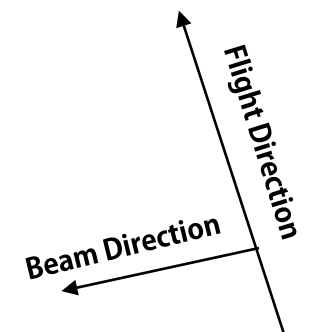
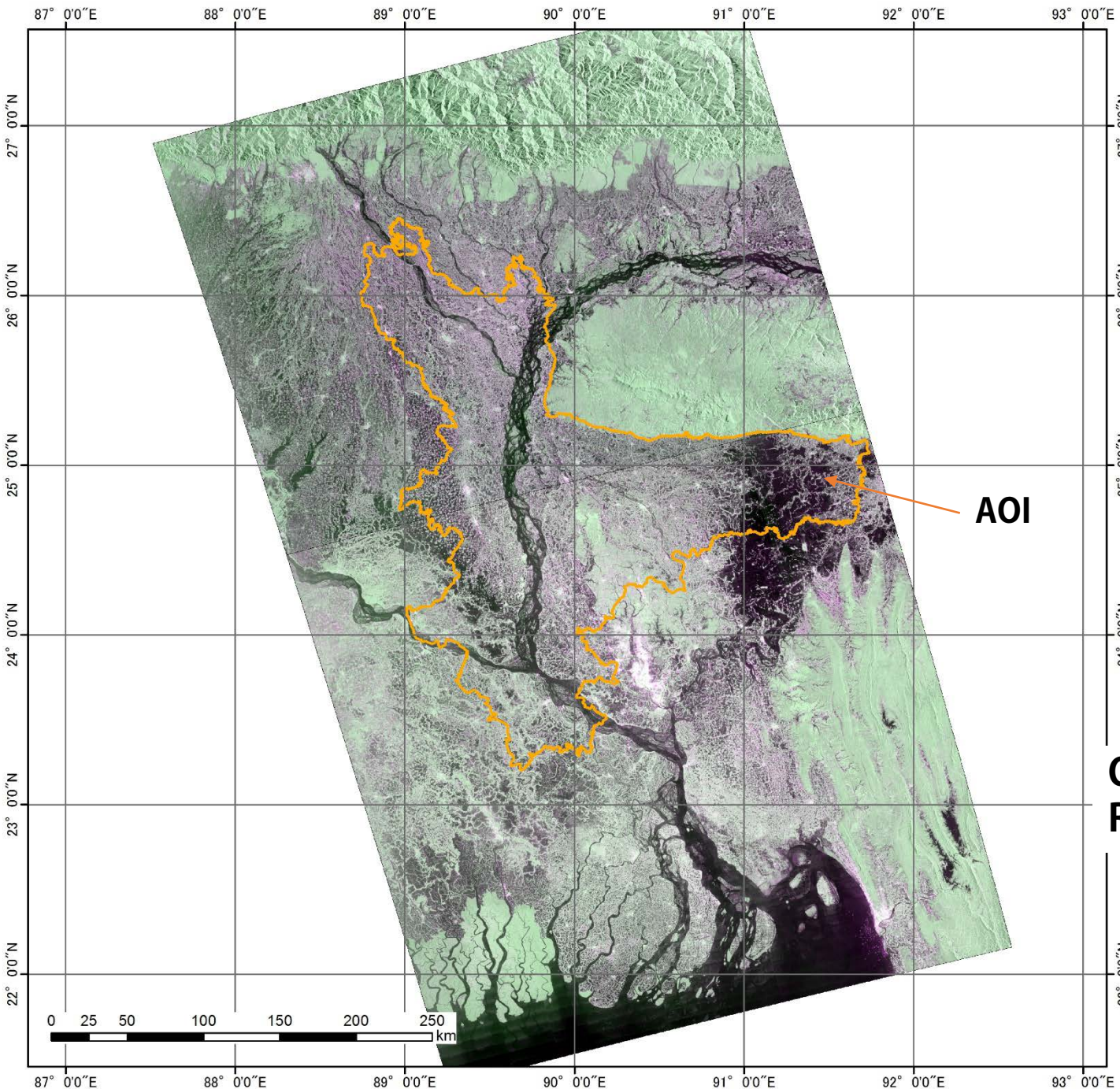


Initial Analysis results of Flood in Bangladesh using ALOS-2/PALSAR-2

**Japan Aerospace Exploration Agency (JAXA)
Remote Sensing Technology Center of Japan
(RESTEC)**

Utilized Data

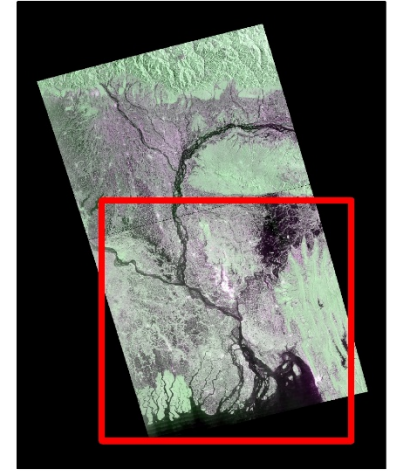
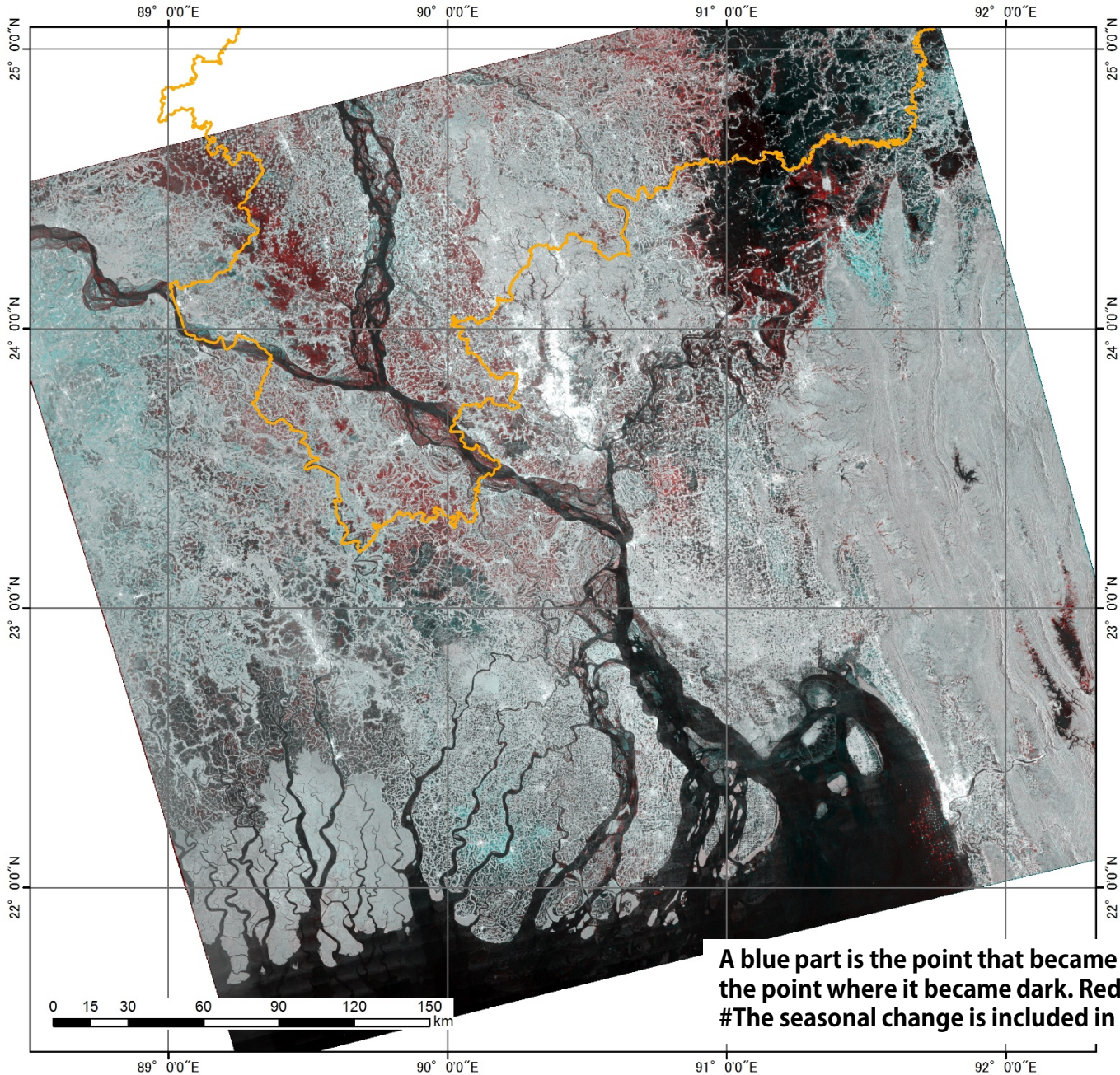
	Obs.Date	Mode	Satellite/Sensor	Pol.	Flight Direction	Off-nadir angle	Beam Direction
Pre-disaster	2016/5/25	WD1	ALOS-2/ PALSAR-2	HH+ HV	Ascending	47.3°	Left
Post-disaster	2016/8/3	WD1	ALOS-2/ PALSAR-2	HH+ HV	Ascending	47.3°	Left



AOI

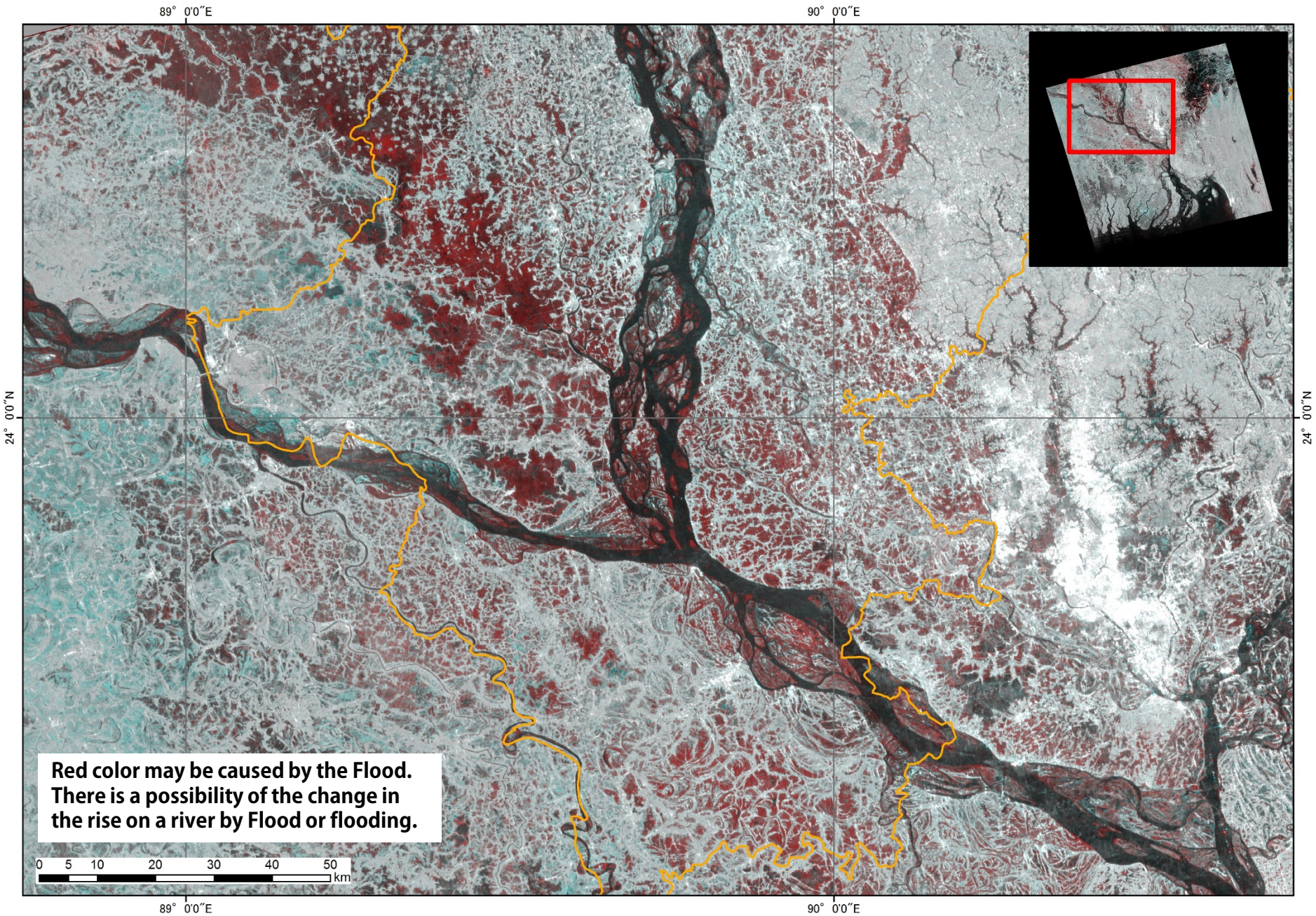
Obs.Date 2016/08/03
R:G:B = HH : HV : HH

R:G:B = 2016/5/25 : 2016/8/3: 2016/8/3



A blue part is the point that became bright in 2nd acquisition. A red part is the point where it became dark. Red color may be caused by the Flood. #The seasonal change is included in this color change.

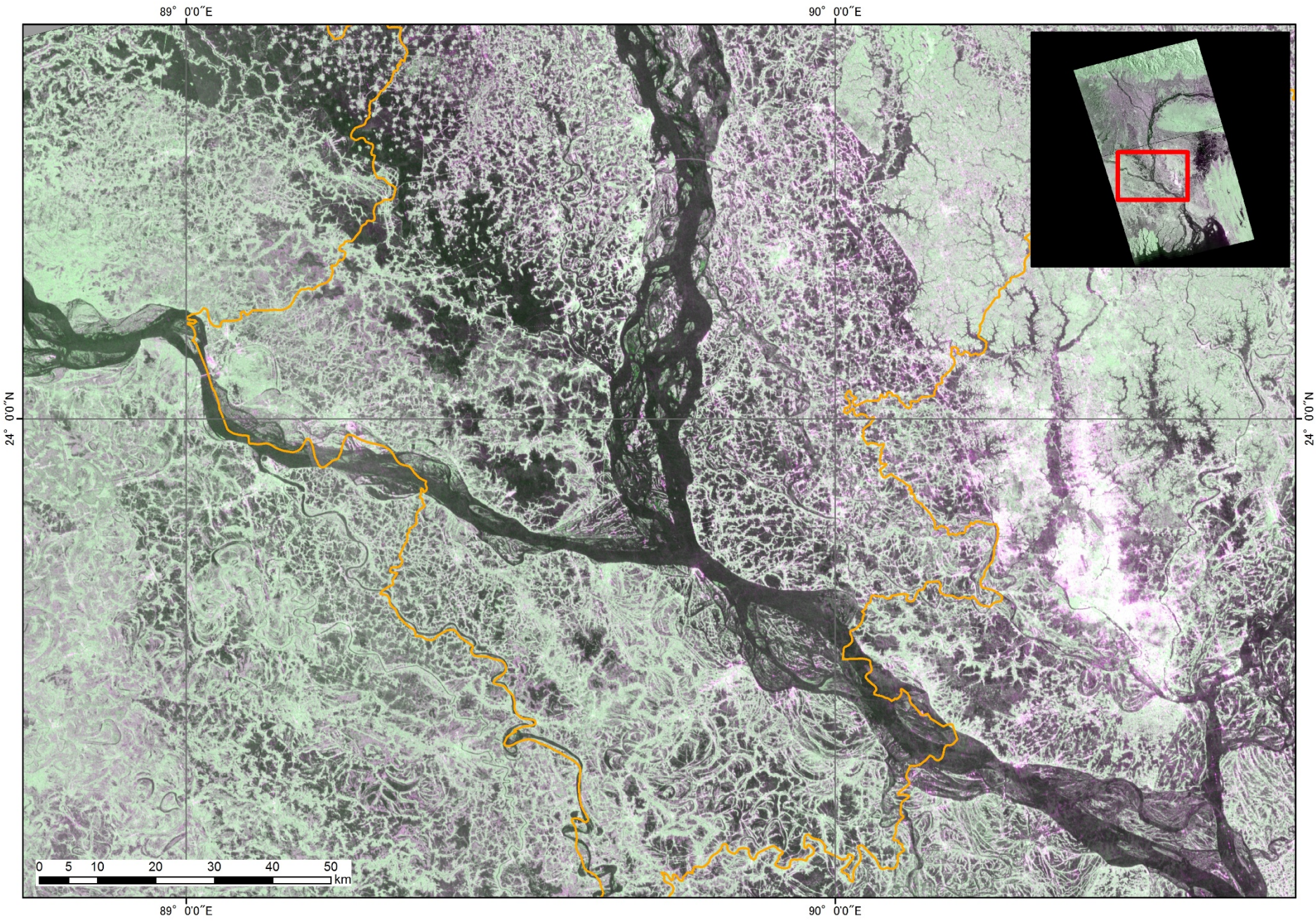
R:G:B = 2016/5/25 : 2016/8/3: 2016/8/3



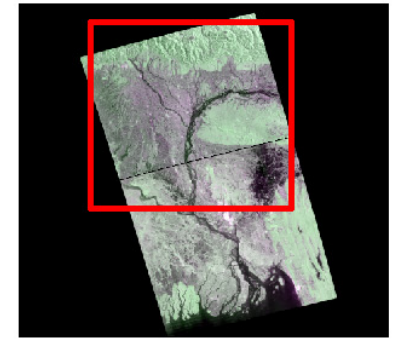
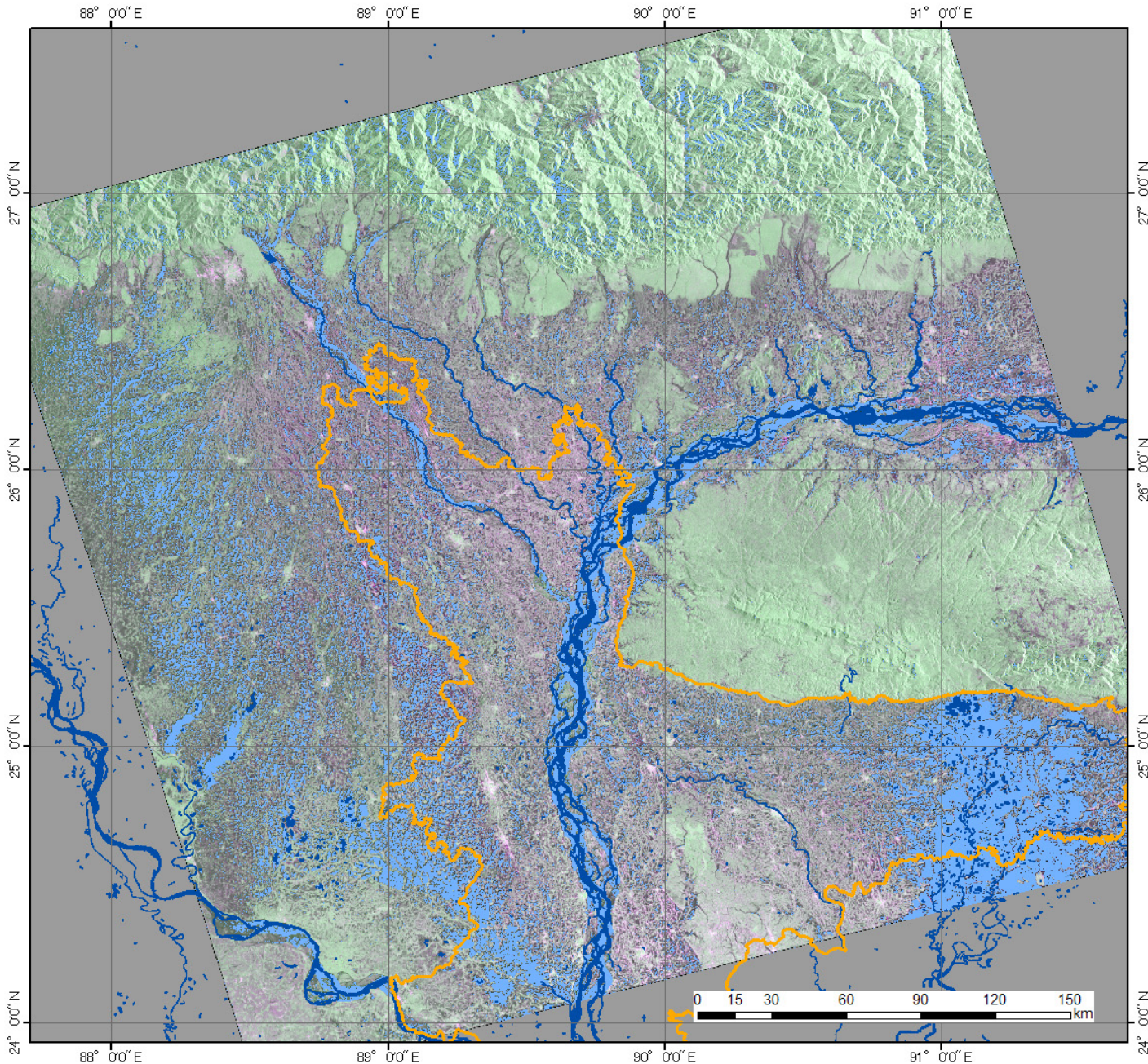
**Red color may be caused by the Flood.
There is a possibility of the change in
the rise on a river by Flood or flooding.**

0 5 10 20 30 40 50
km

Obs.Date 2016/08/03 R:G:B = HH : HV : HH



Water extraction results



Probably Water area 

Existing Water area 

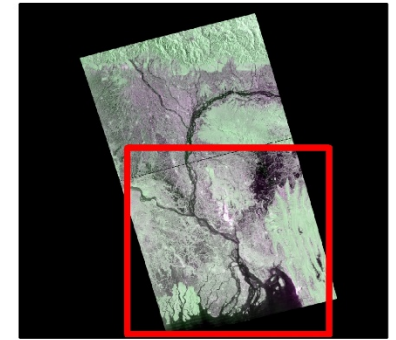
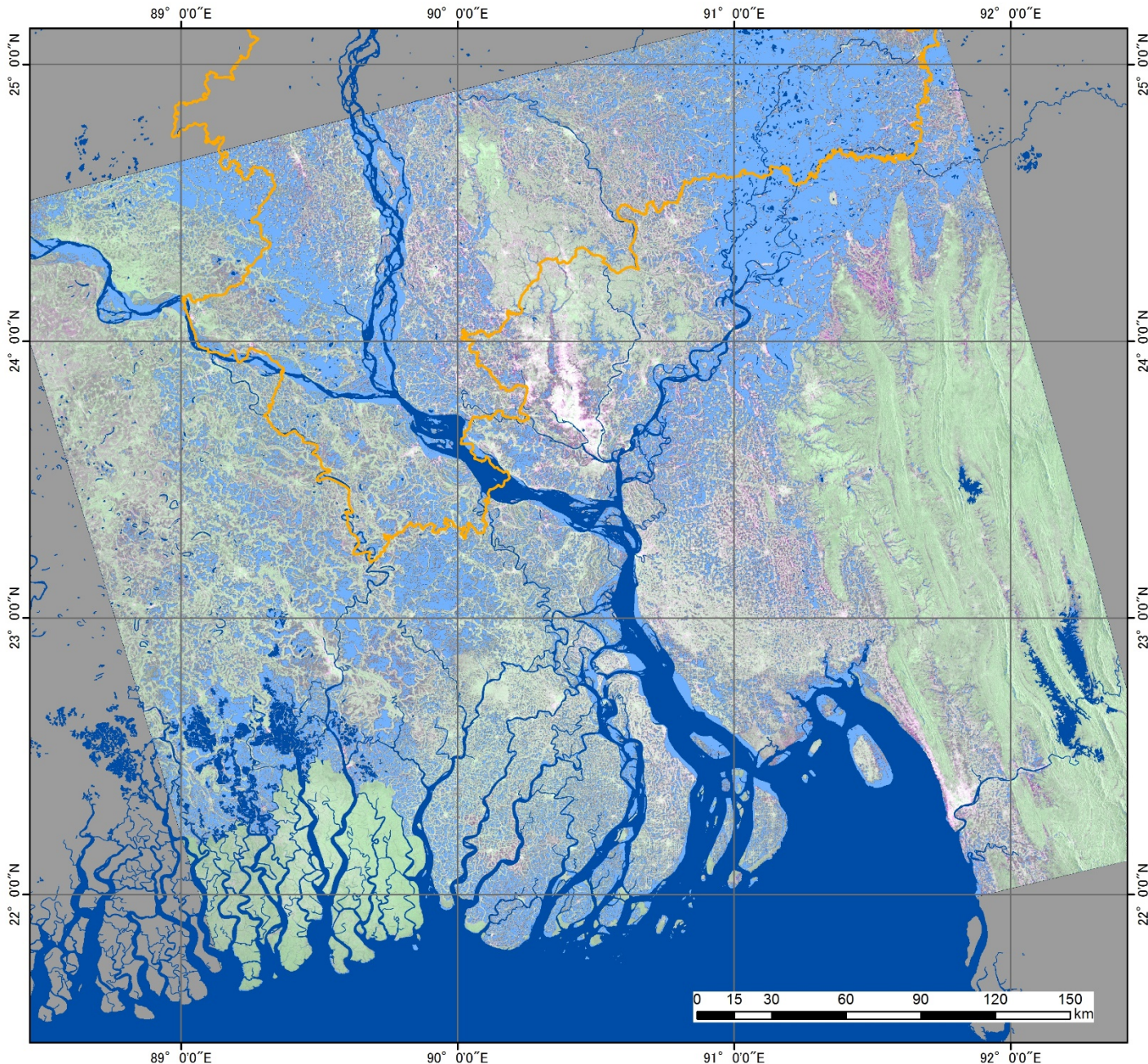
*Using the SRTM Water Body Data.

There is a feature a water area suits darkly by a radar. The result from which the part which indicates the feature like the feature of the existence water area was picked out.

However, the flat objects of a ground, a road, a bare land look darkly like area of the water. When it is not flooded, it may be determined for inundation level.



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