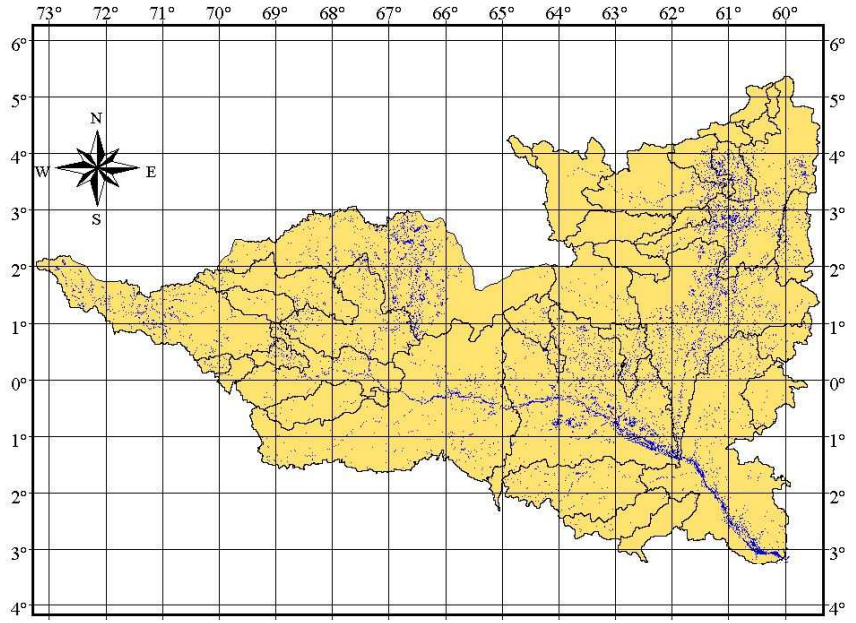
Flood mapping

Permanently flooded areas:

situation during low water stage.

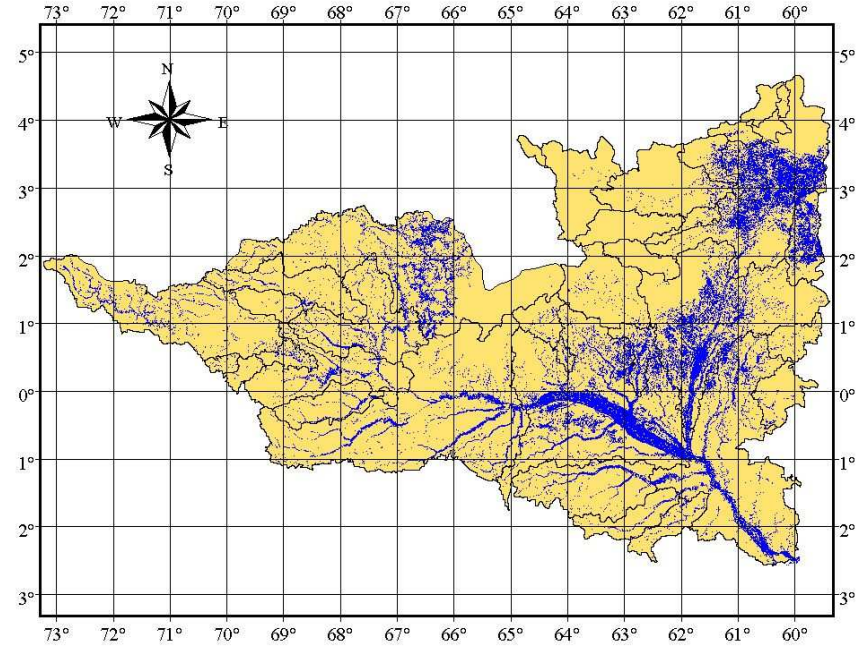
(1) +(6)

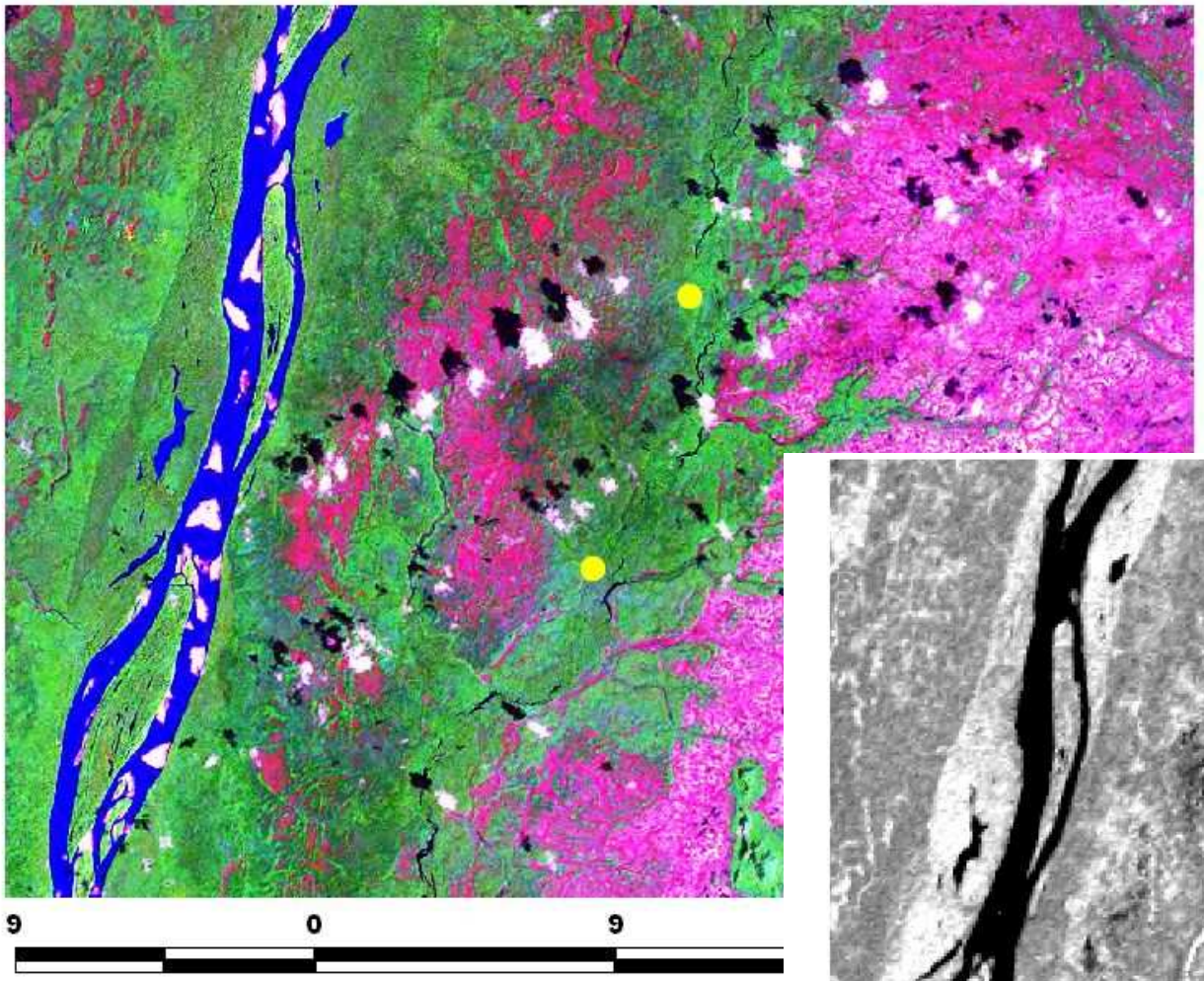


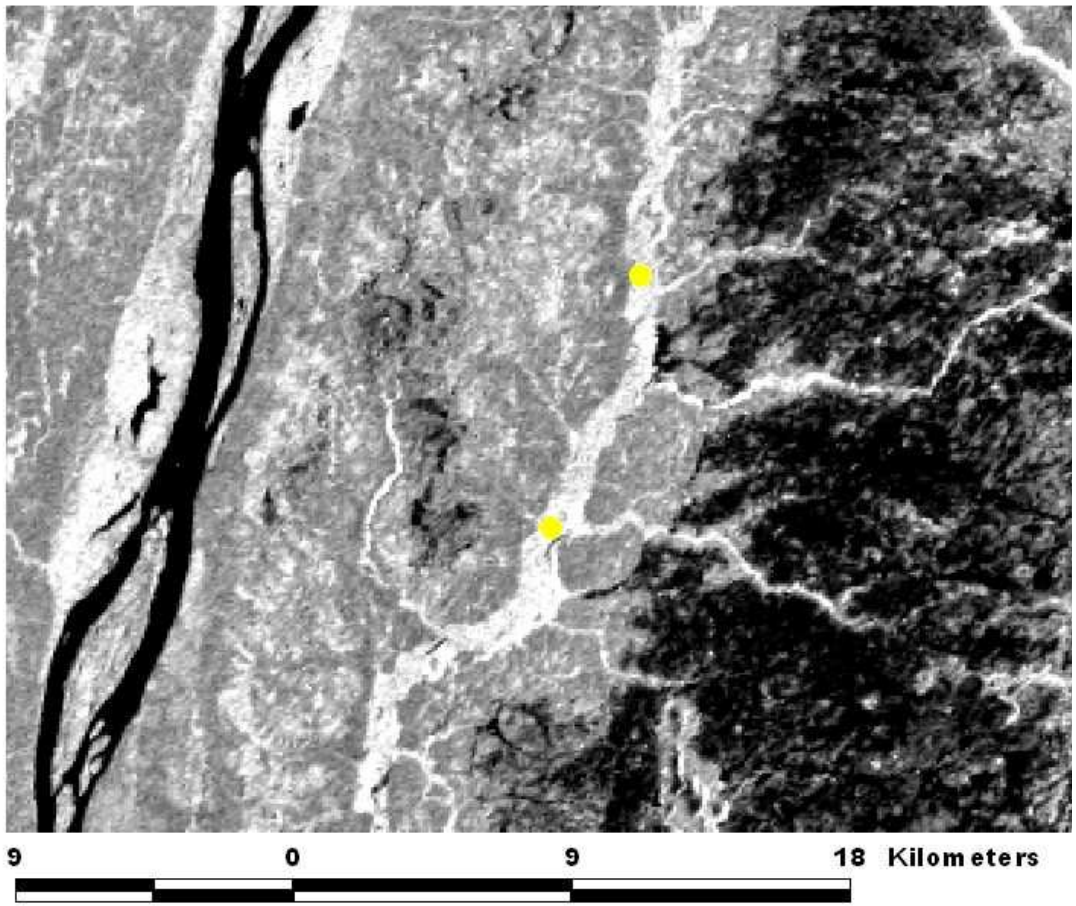
Permanently and temporarily flooded areas:

situation during high water stage.

(1) +(2)+(5)+(6)+(7)+(8)




9
0
9


9
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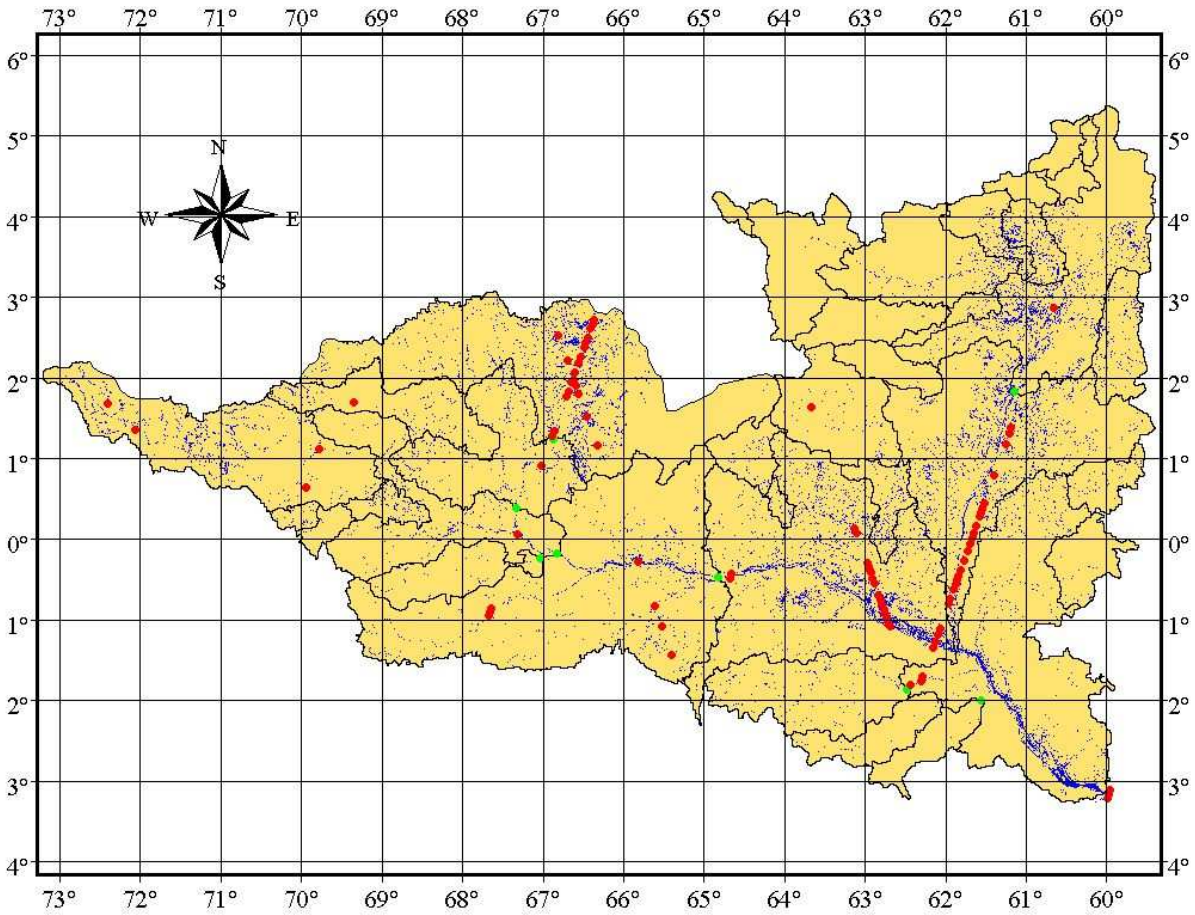
9
18 Kilometers

Synergy with altimetry and in-situ gauges

➔ Identification of 88 useful Topex/Poseidon virtual stations

➔ Use of 8 in-situ gauge stations

⇒ Mapping water level for low and high water stages



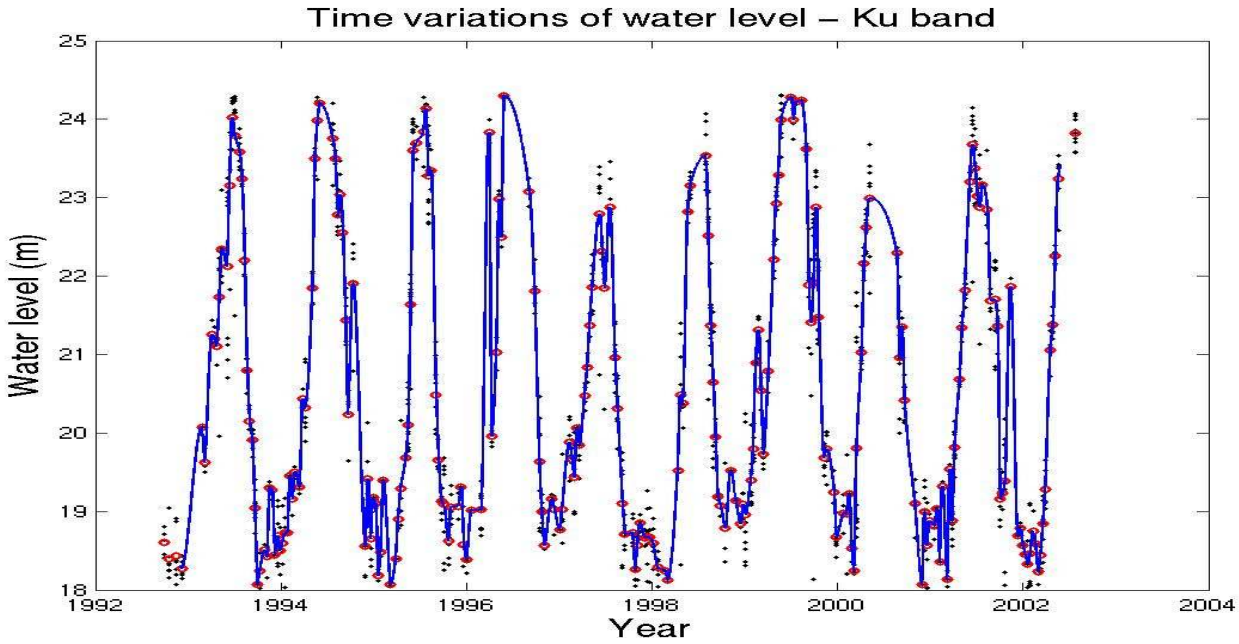
- Topex/Poseidon virtual station
- In-situ referenced gauge station

Hydrological cycle by radar altimetry

Branco river floodplain

-61.9°<long<-61.85°

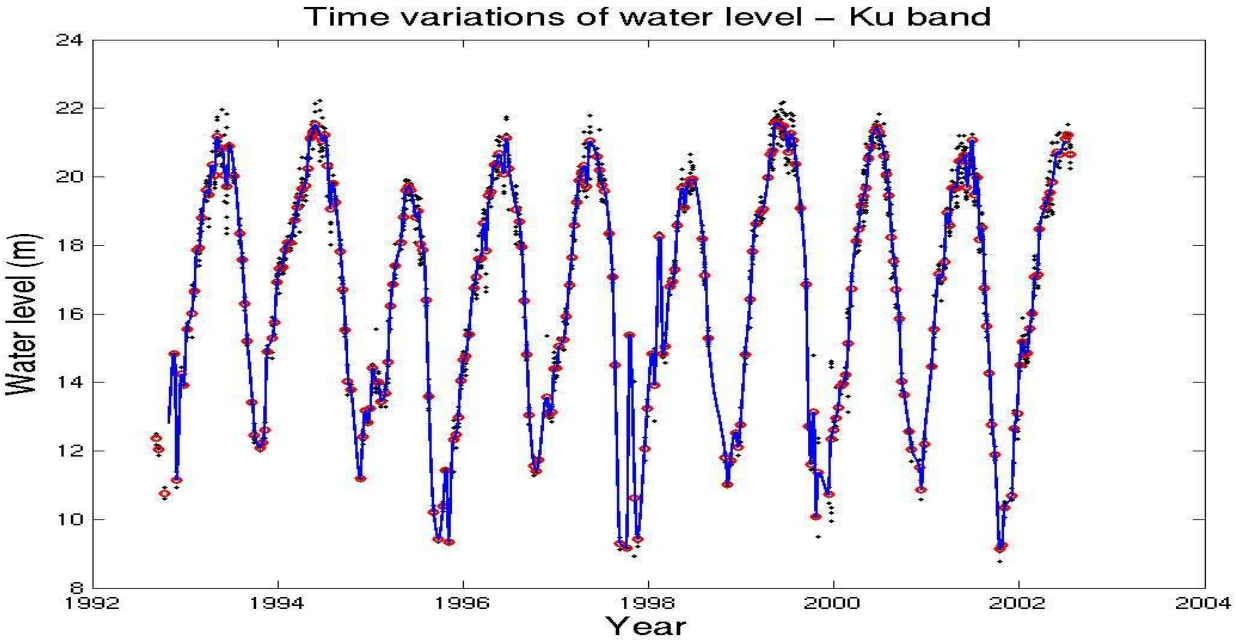
-0.68°<lat<-0.62°

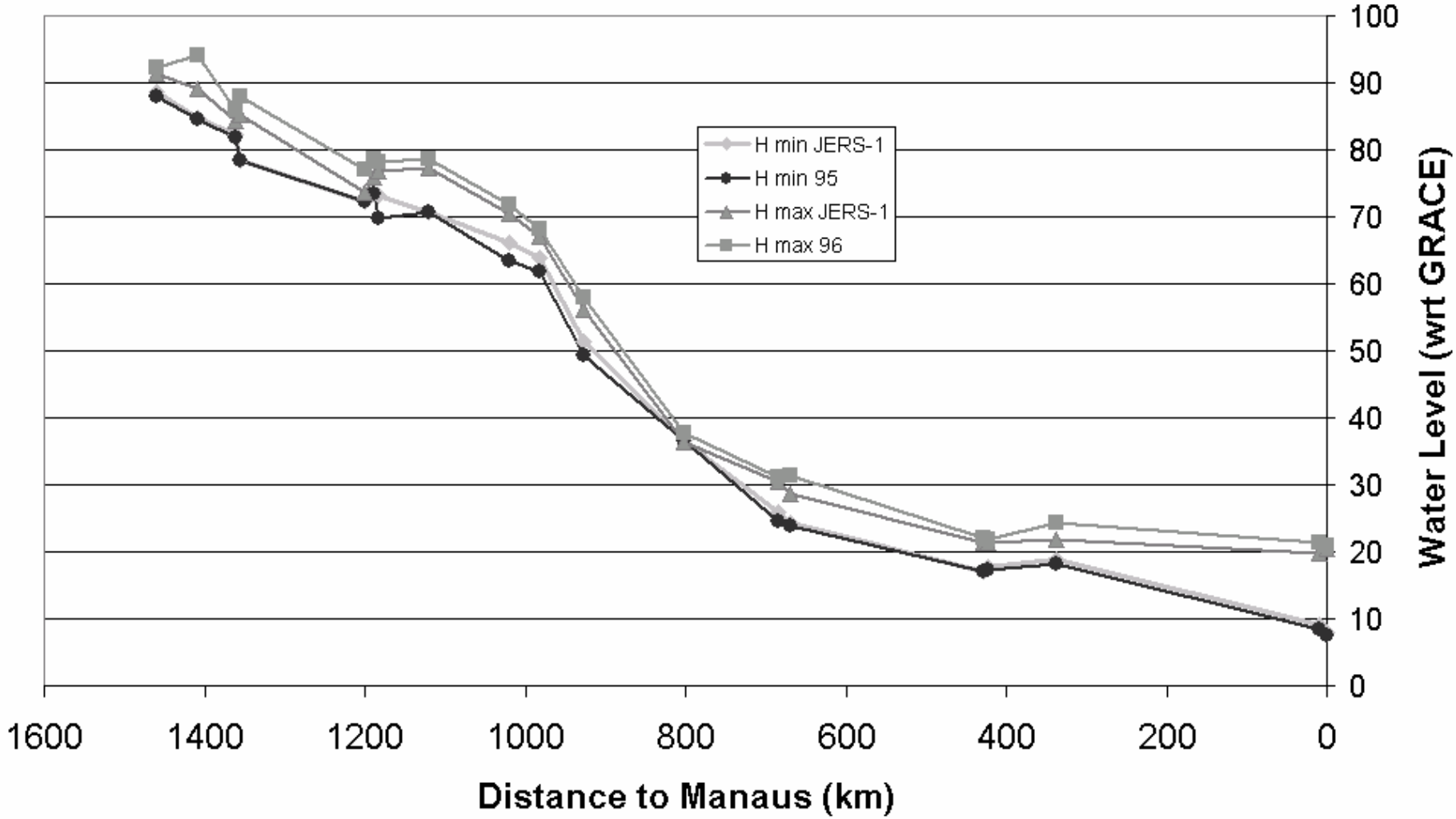


Negro river near Manaus

-59.98°<long<-59.93°

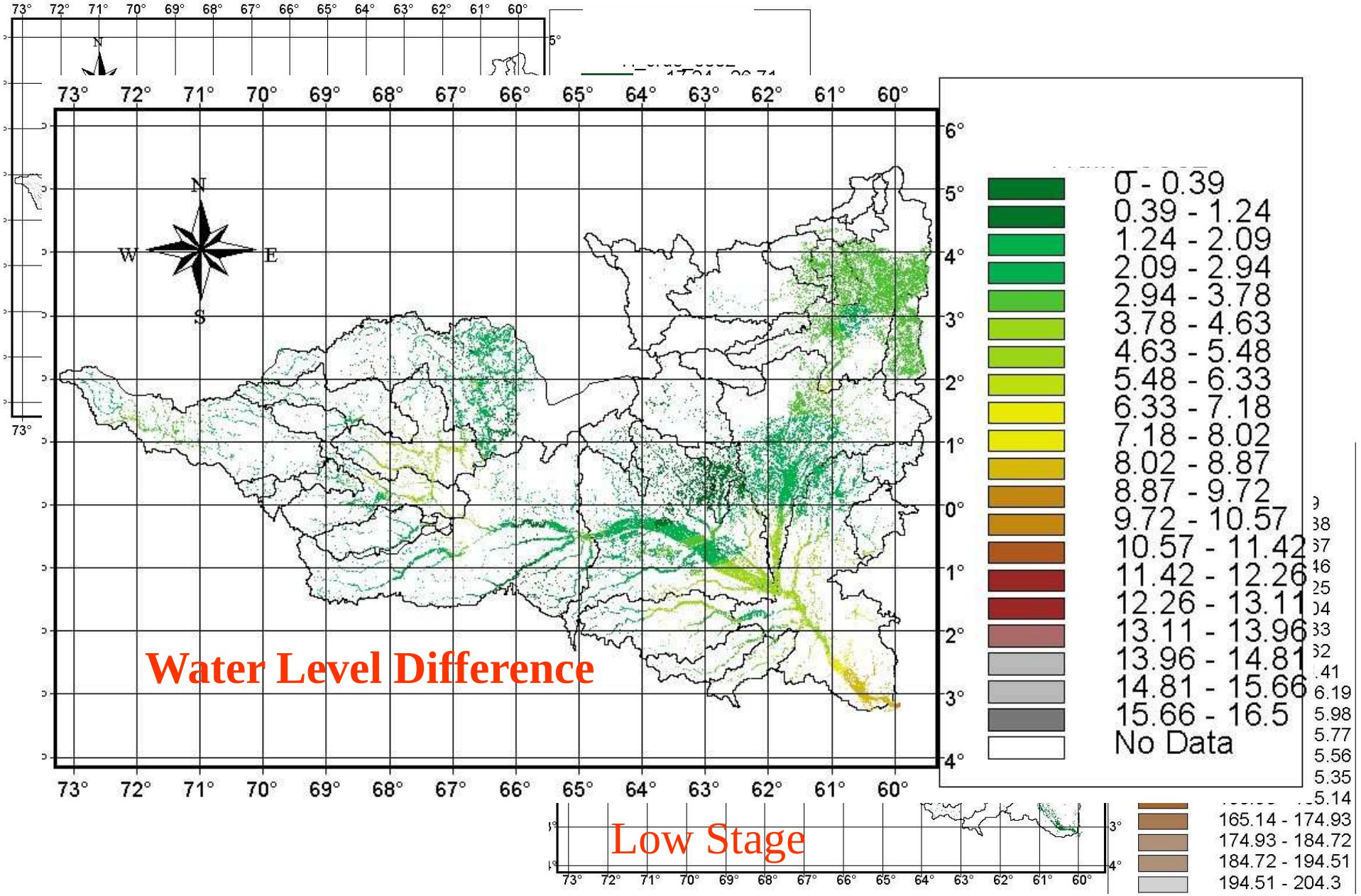
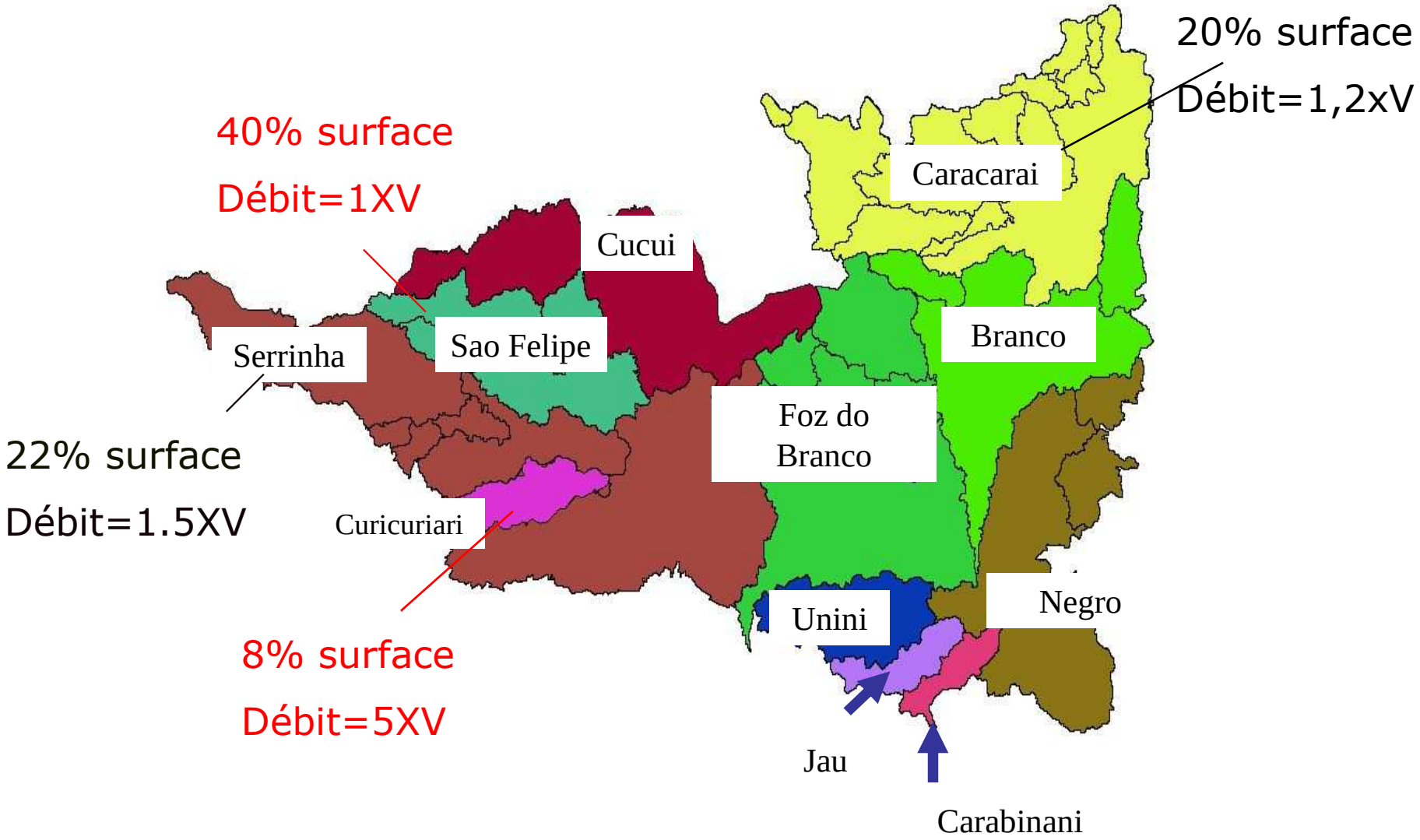
-3.21°<lat<-3.16°





F. Frappart et al., in press

Synergy with altimetry and in-situ gauges



4) Zones inondées, variations spatio-temporelles des surfaces, hauteur d'eau, volumes, F. Frappart,J-M. Martinez,F.Seyler