

Le projet RTE **CASH**

L'altimétrie satellitaire pour l'hydrologie:
Un nouveau regard sur l'altimétrie

Projet RTE:

Partenaires scientifiques:
LMTG LEGOS, US-Espace

Partenaires Industriels:
CLS, Brl, CNES

Objectifs: créer des produits hydrologiques issus
de l'altimétrie satellitaire (T/P) et les mettre à disposition
de la communauté

Cibles: Hydrologues (developpements de modèles adaptés
aux données altimétriques (LMTG, Brl)
Utilisateurs des produits hydrologiques (LEGOS, CLS)

Deux types d'objets étudiés:

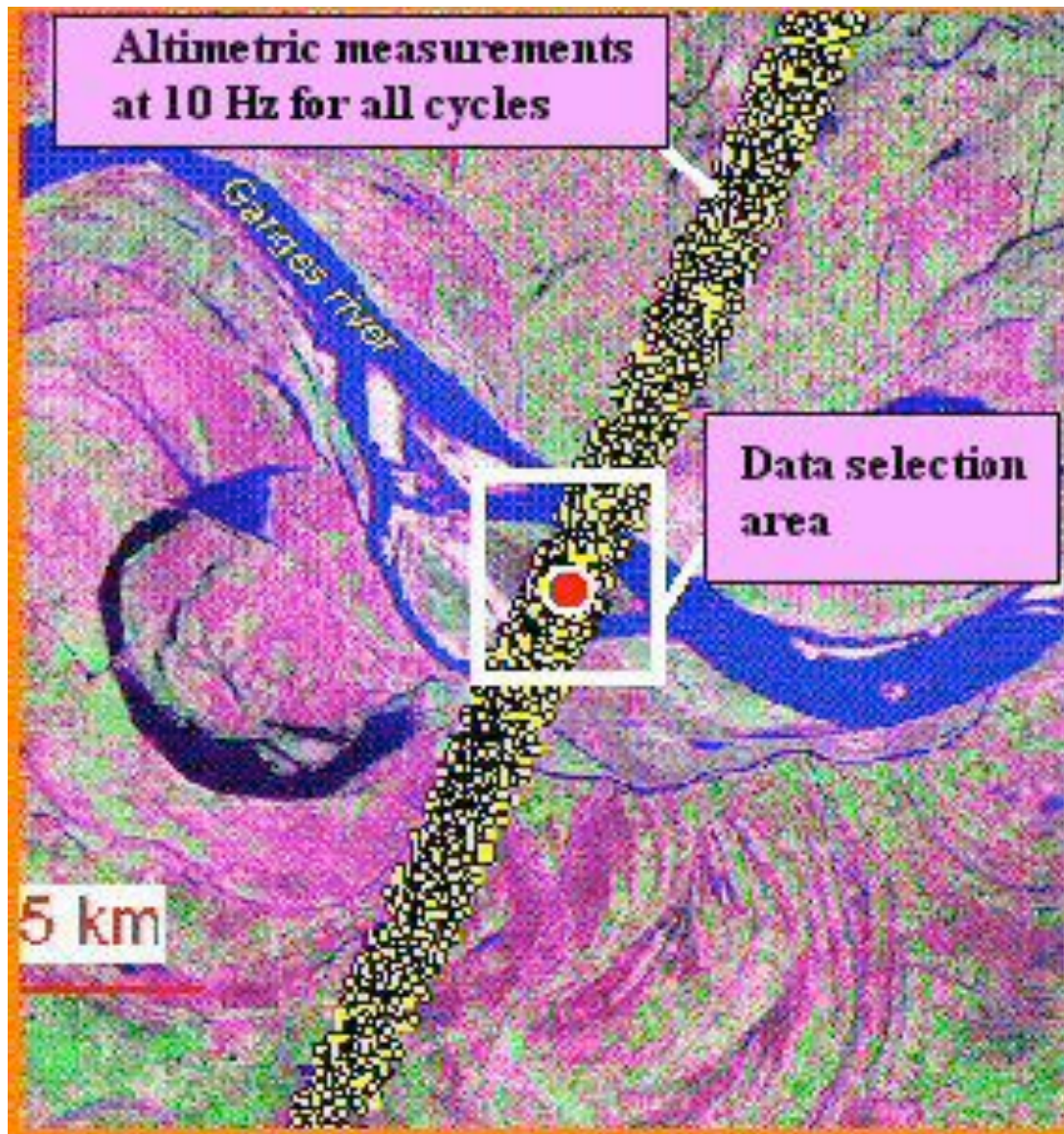
Les rivières

Les zones d'inondations

Les rivières:

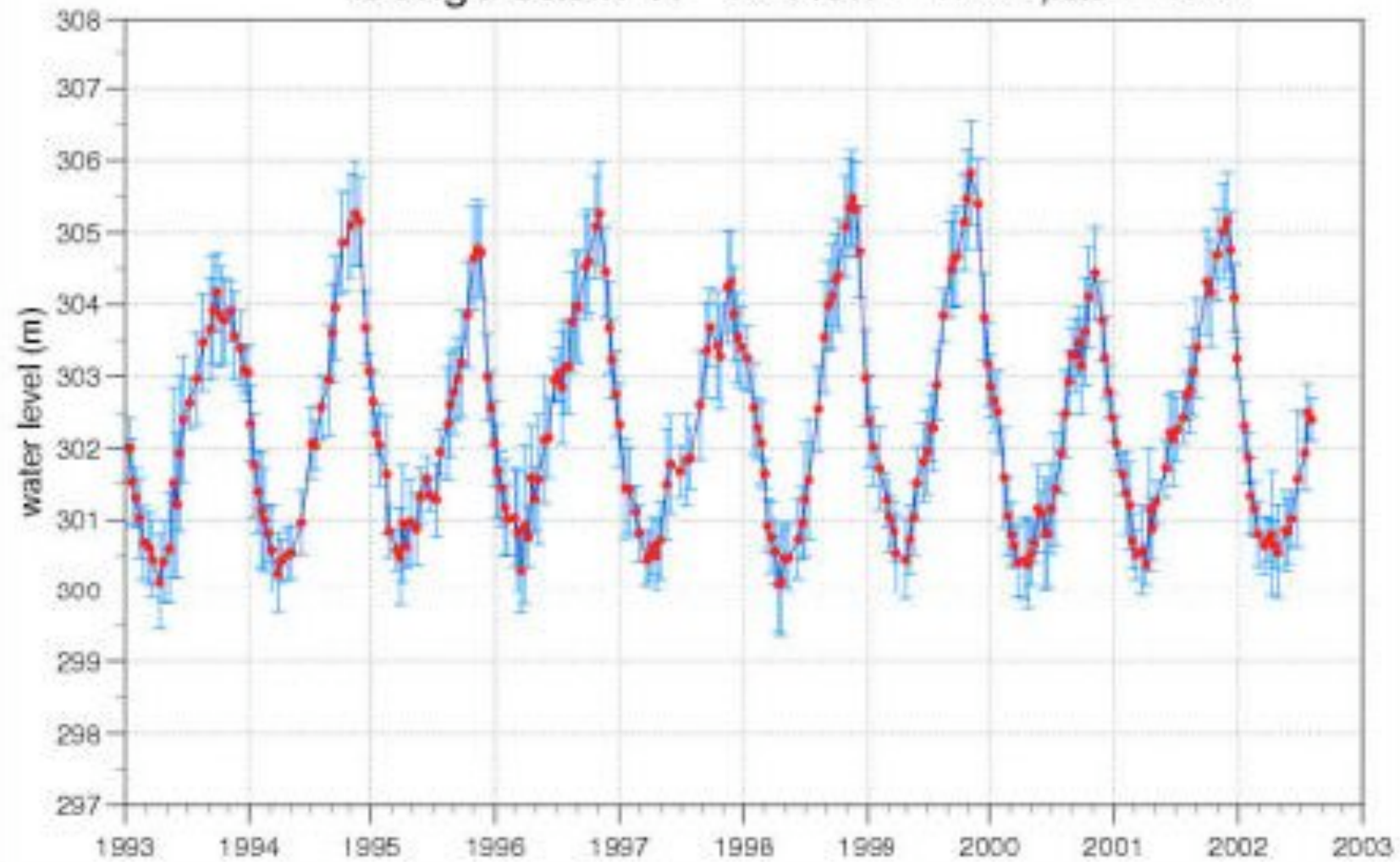
Le concept de station virtuelle

Les pbs techniques d'altimétrie
tracking, accrochage, tache au sol



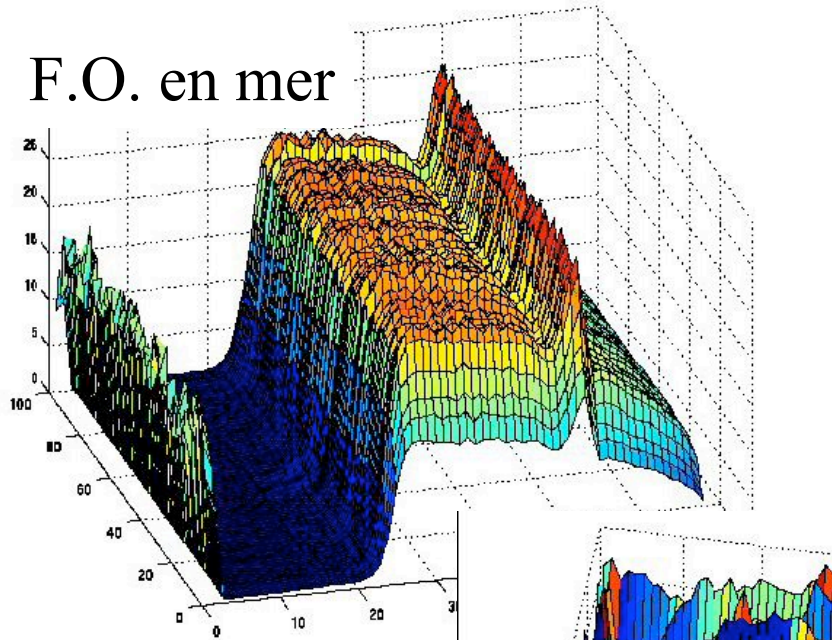
Le concept de station virtuelle (2D)

Congo basin TP 83 : lon= 17.75 ,lat= 0.10

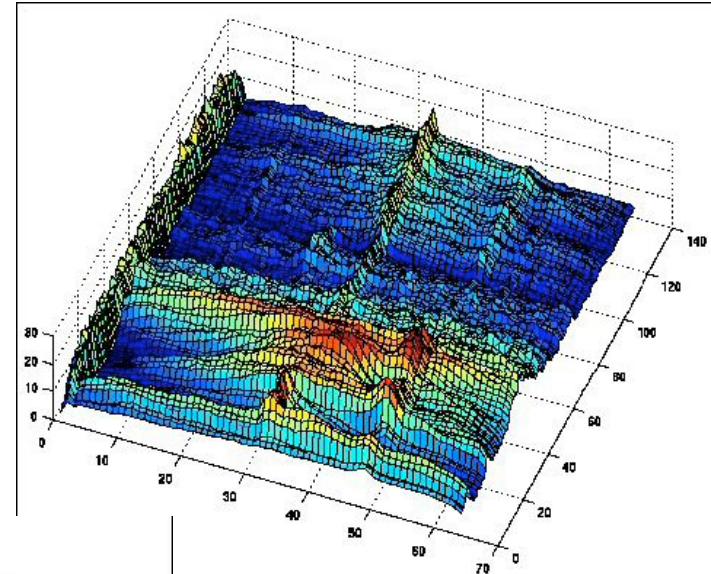


Le probleme du tracking

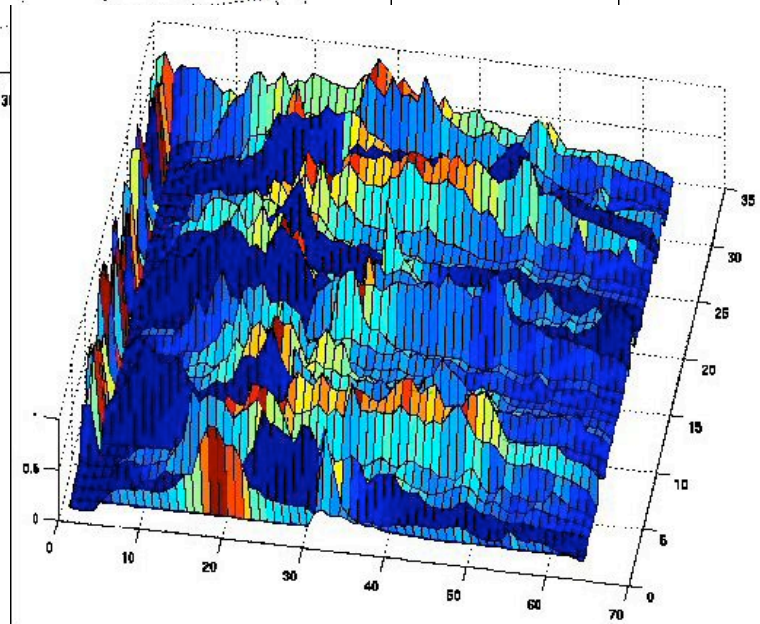
F.O. en mer



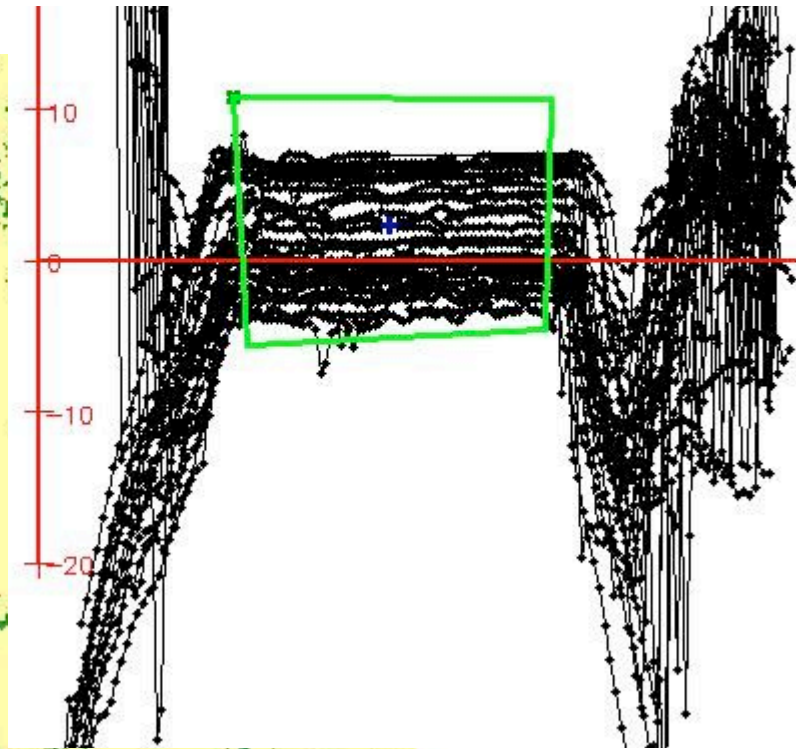
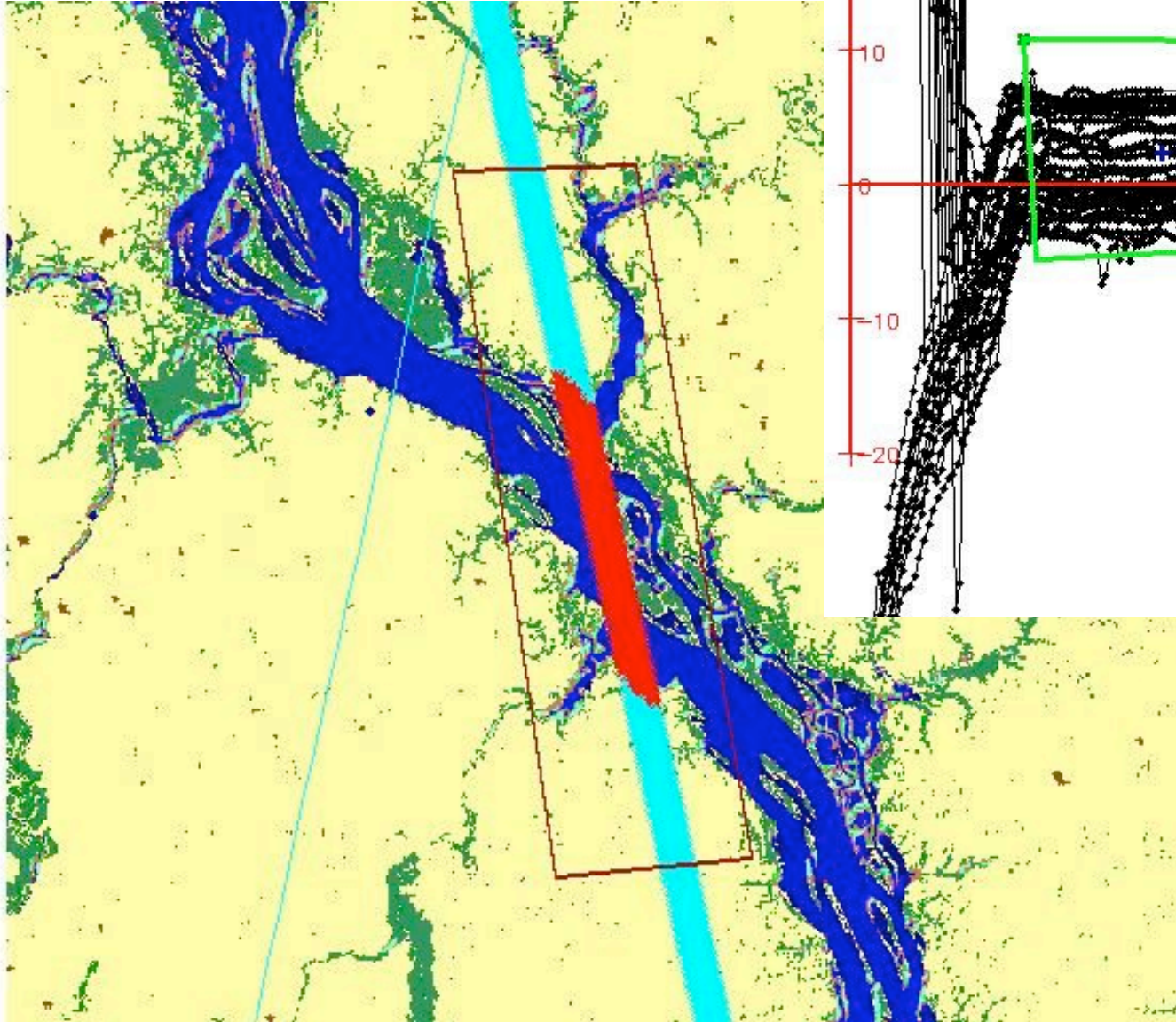
Embouchure du Congo



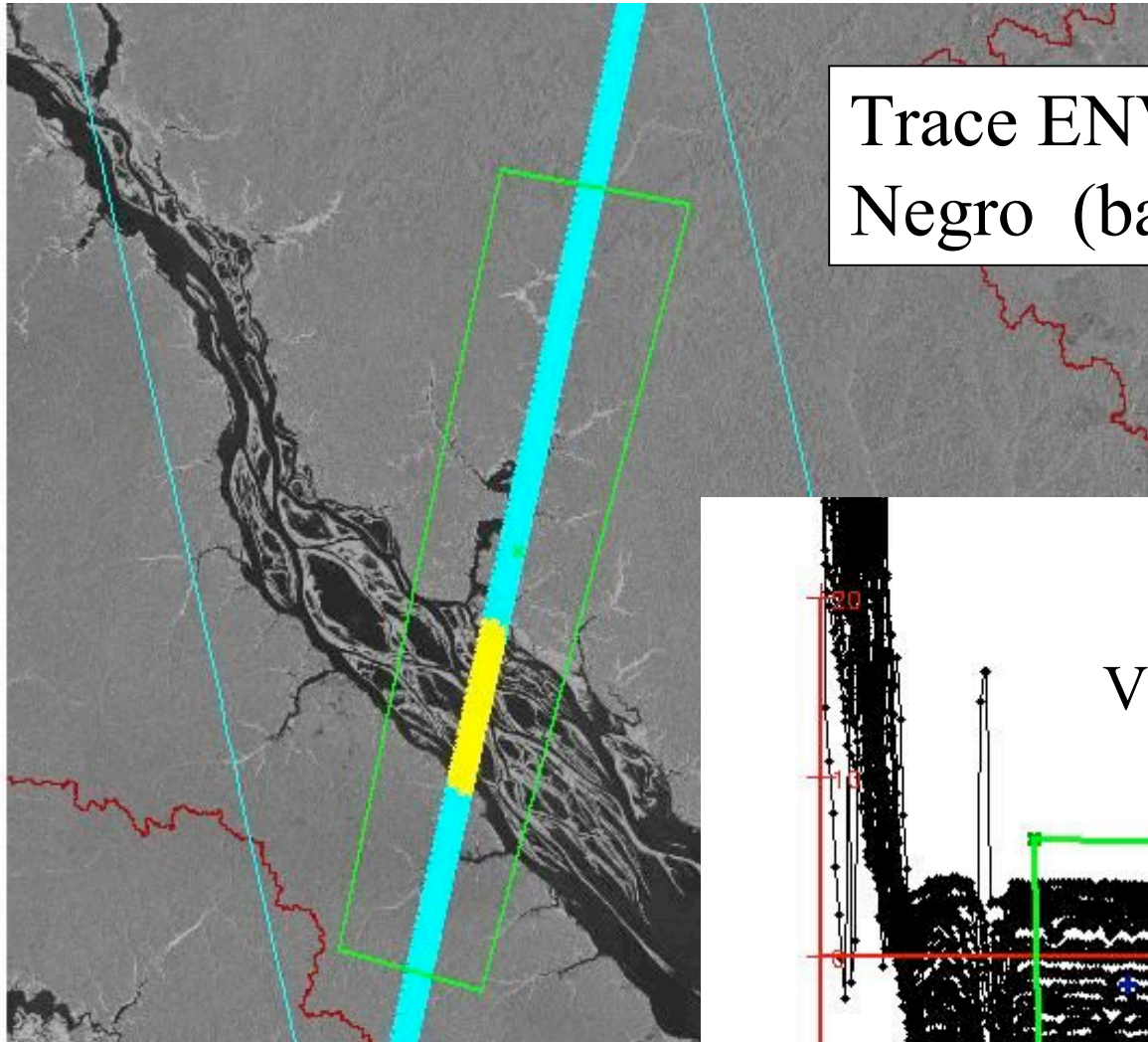
1 an de F.O T/P



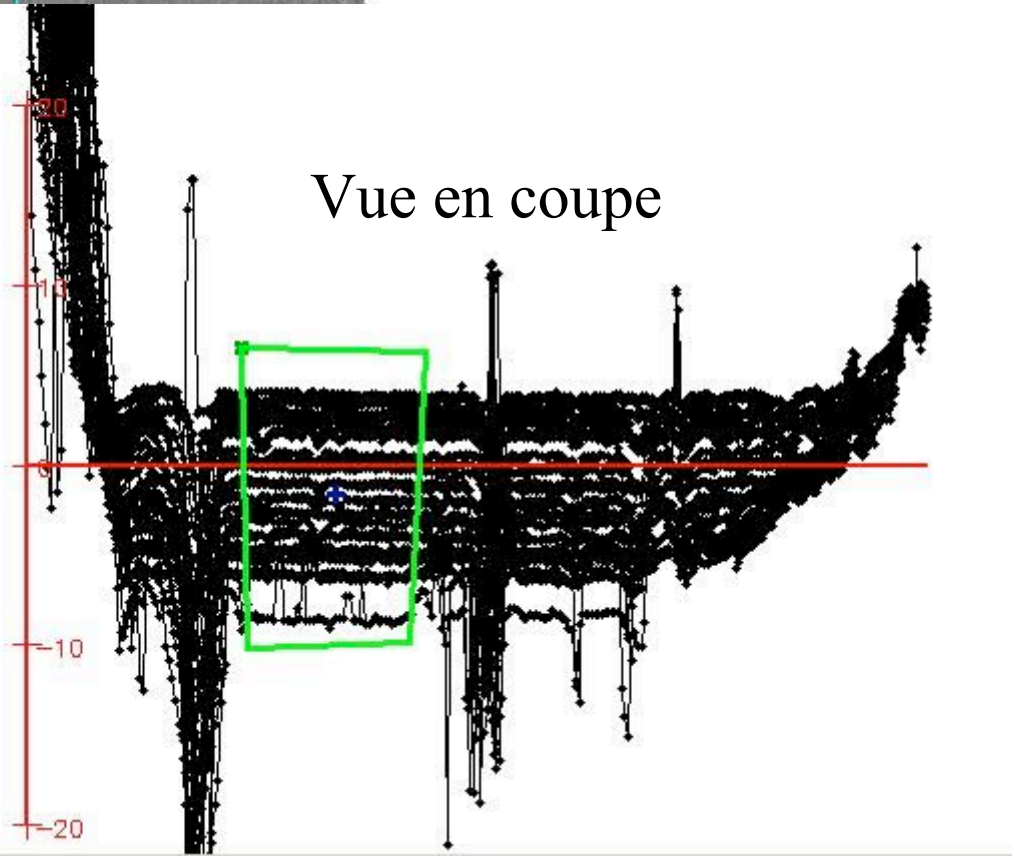
Le pb d'accrochage

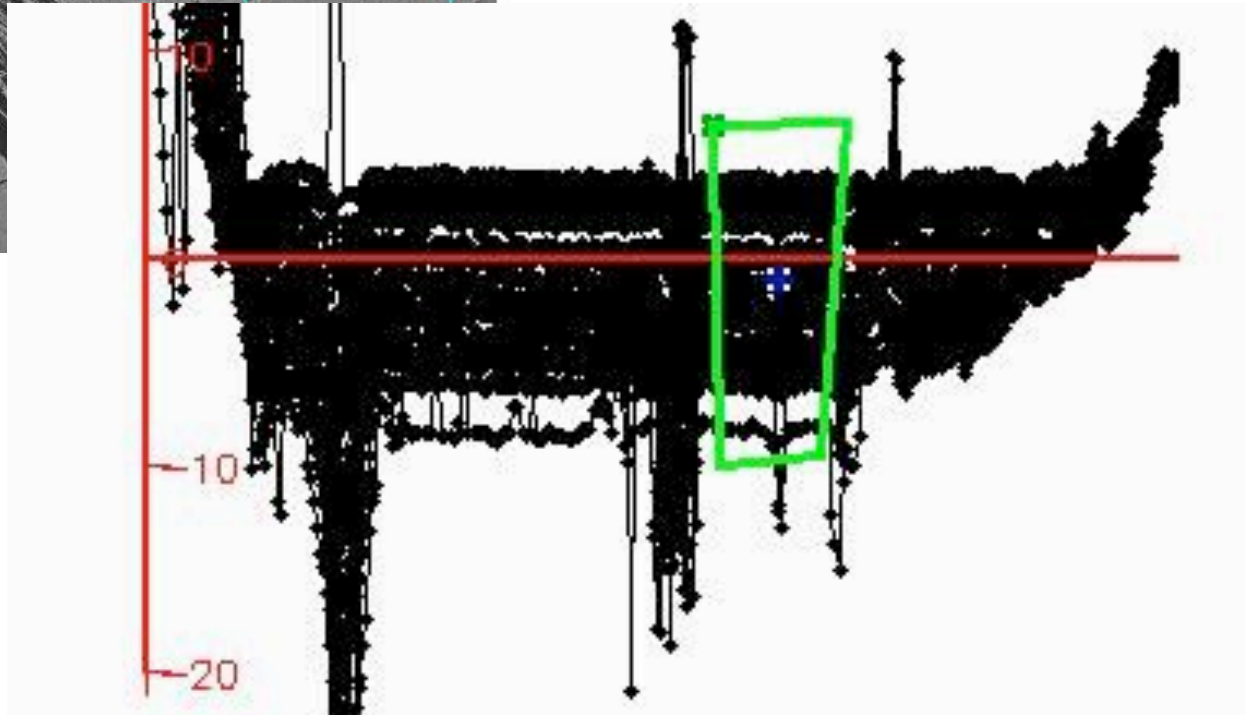
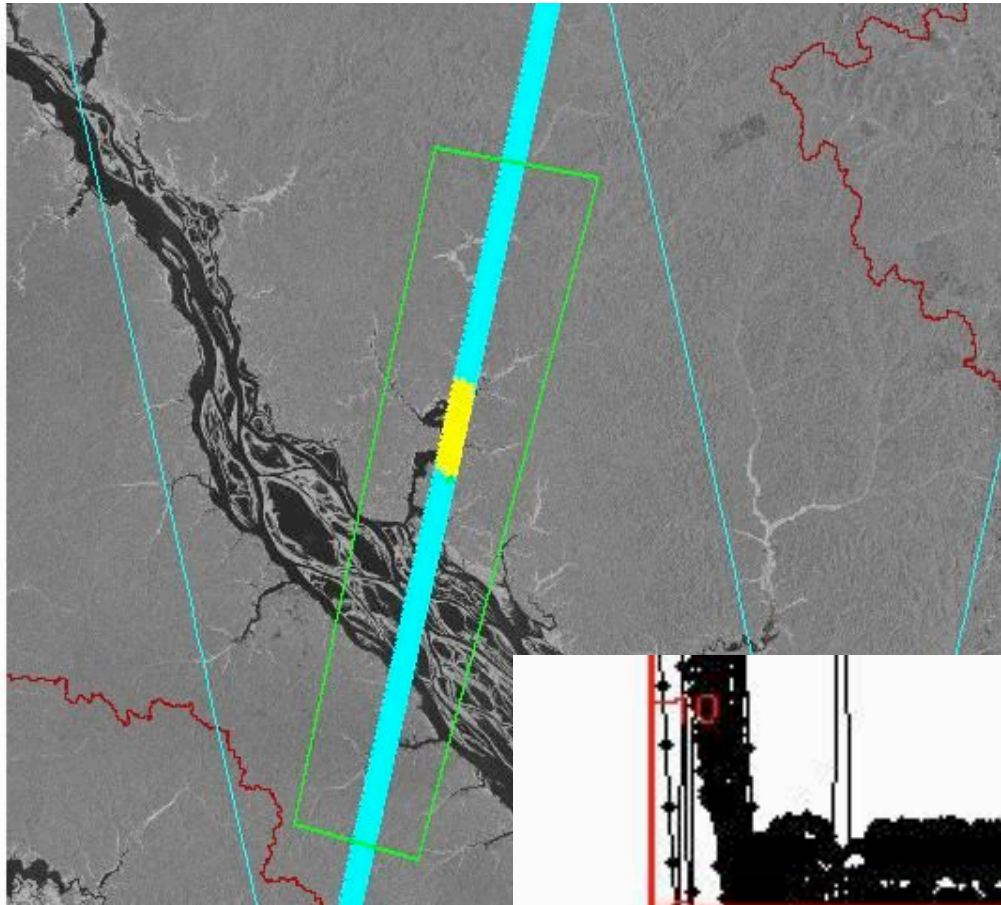


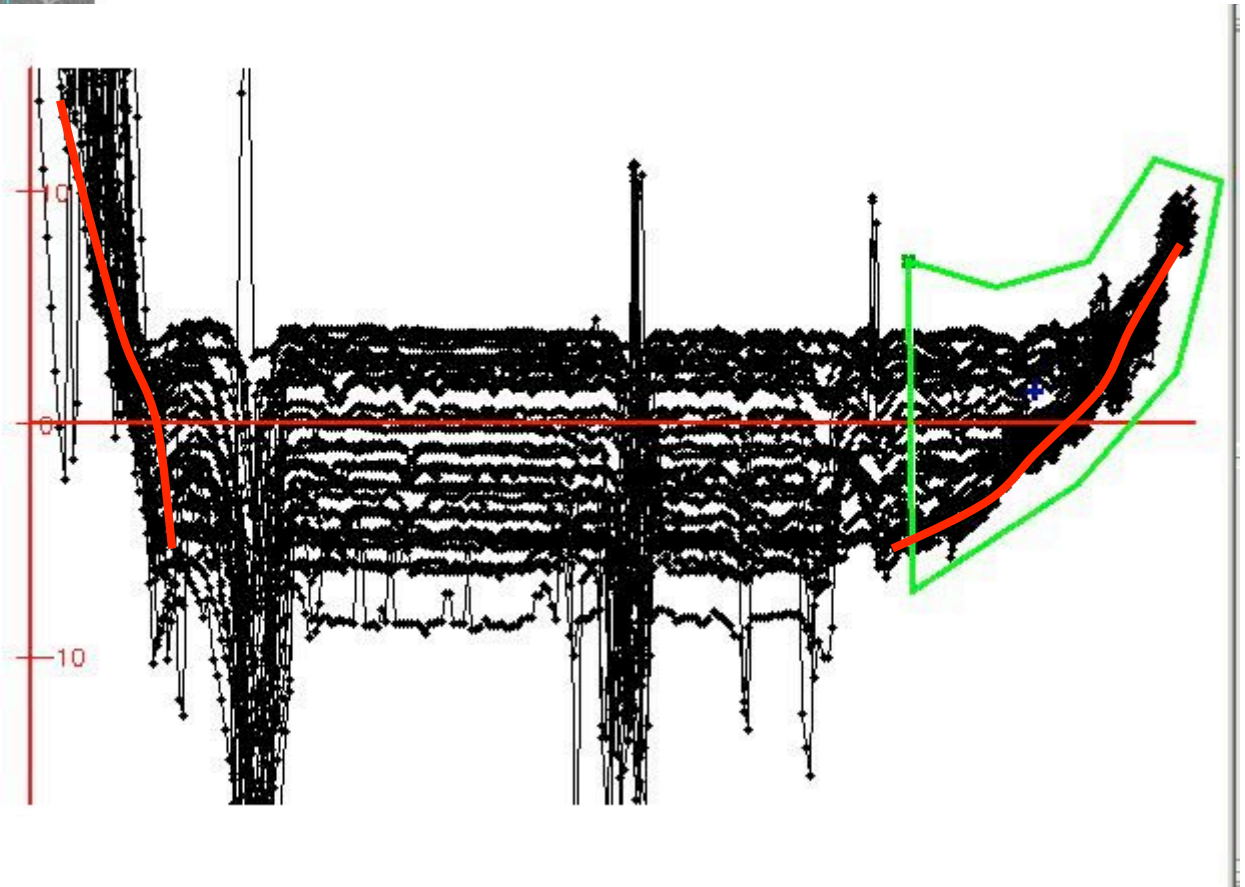
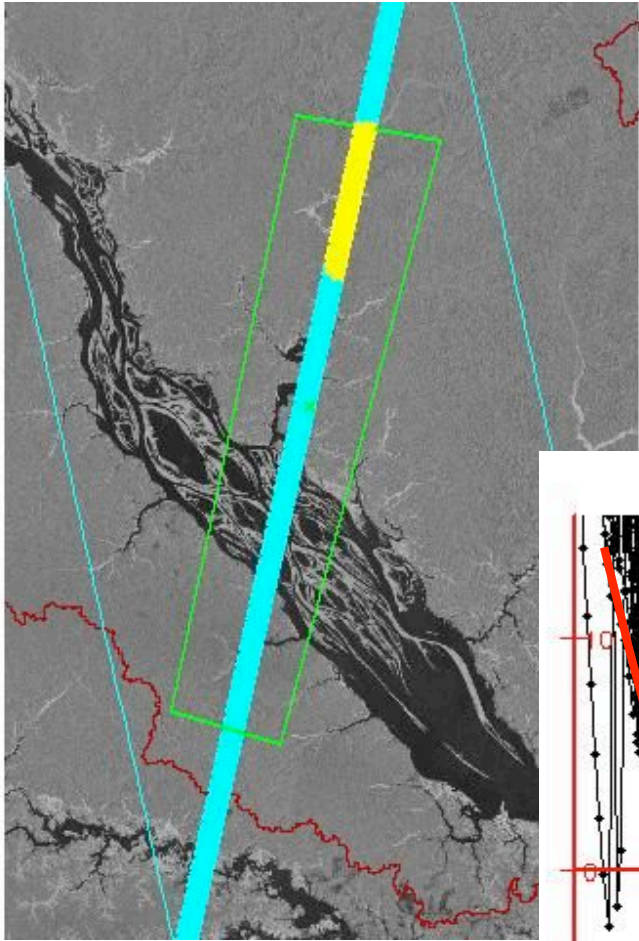
Trace ENVISAT sur le fleuve Negro (bassin Amazonien)

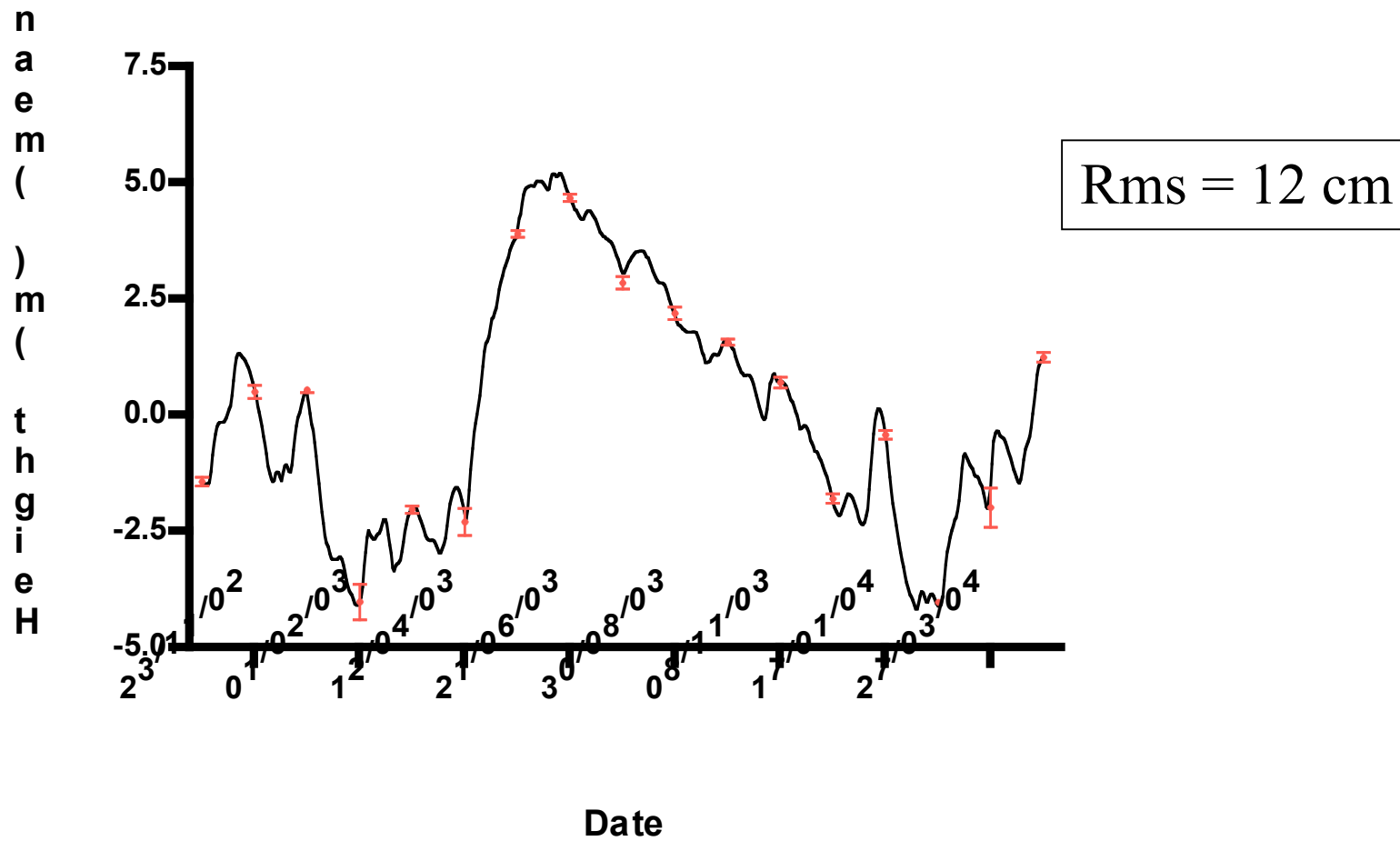


Vue en coupe





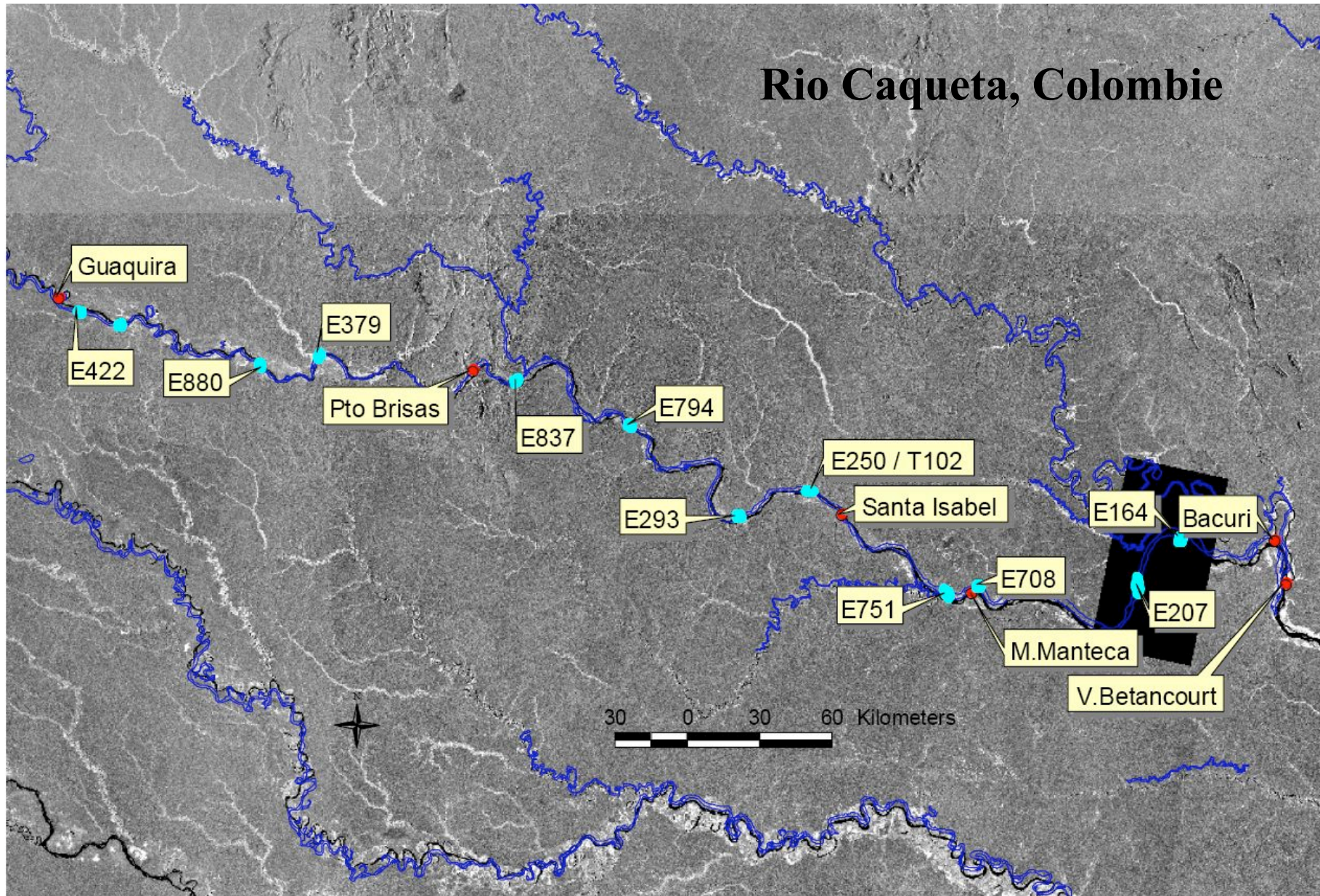




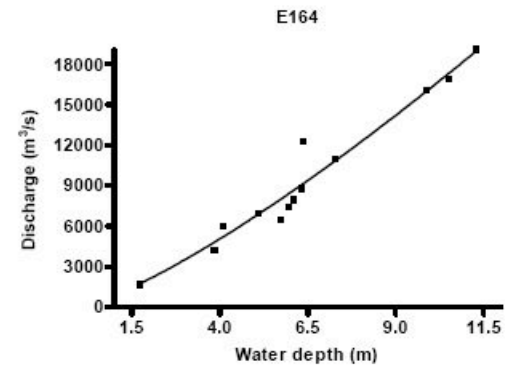
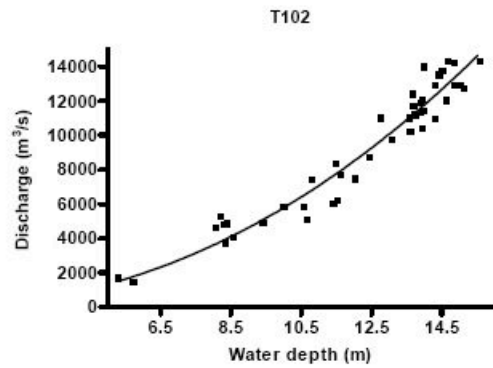
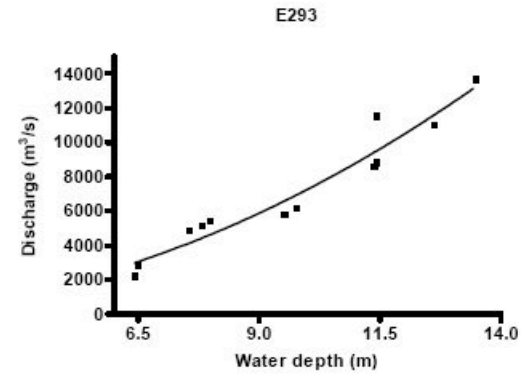
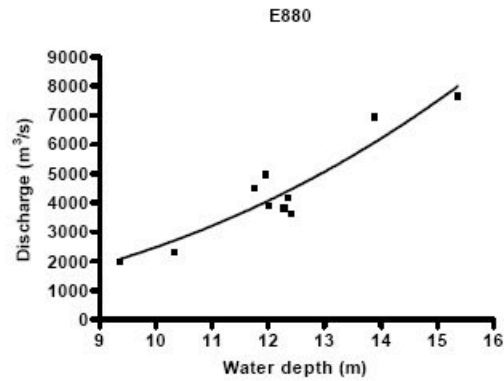
— Sao Felipe measured water stage

• T536_4 altimetry data

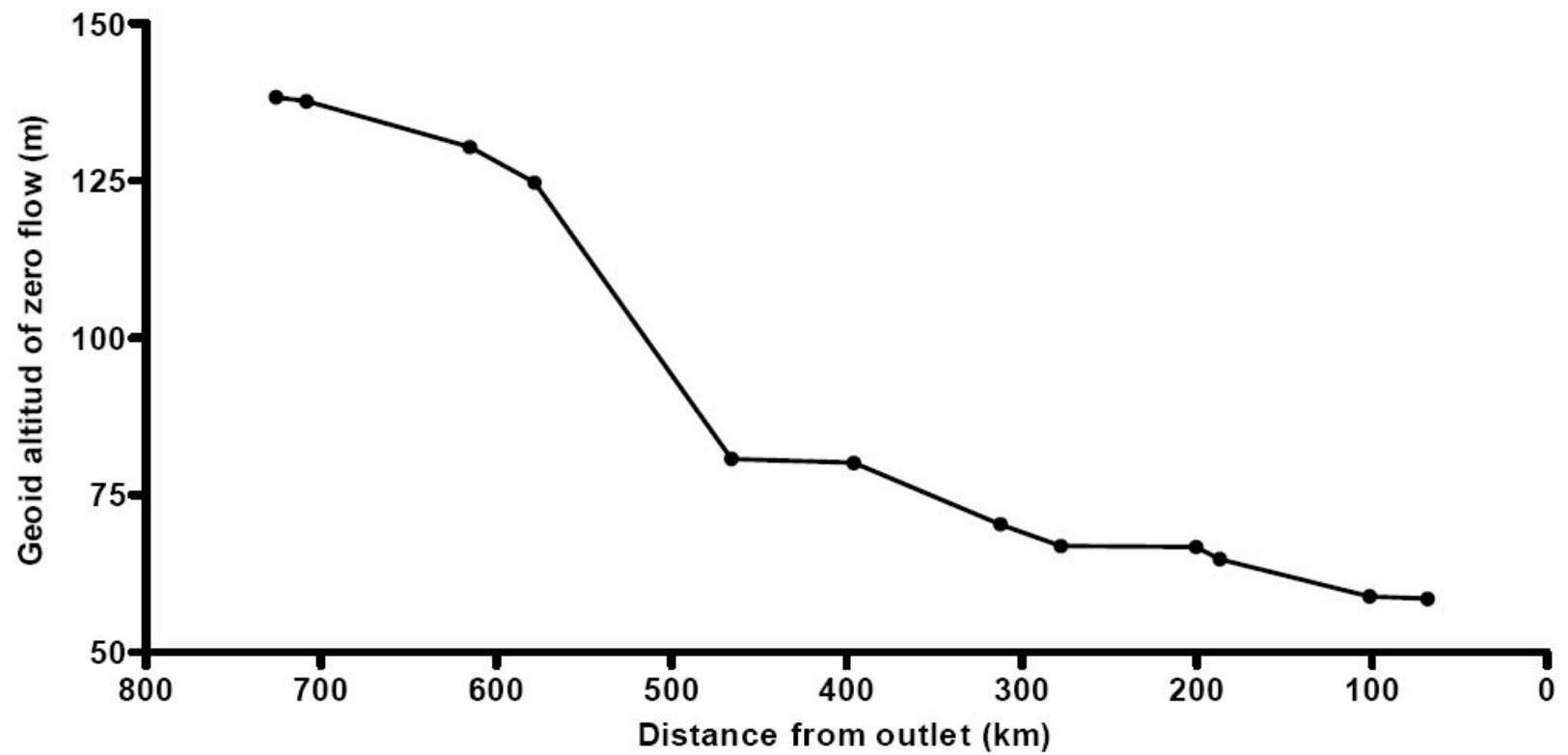
Rio Caqueta, Colombia



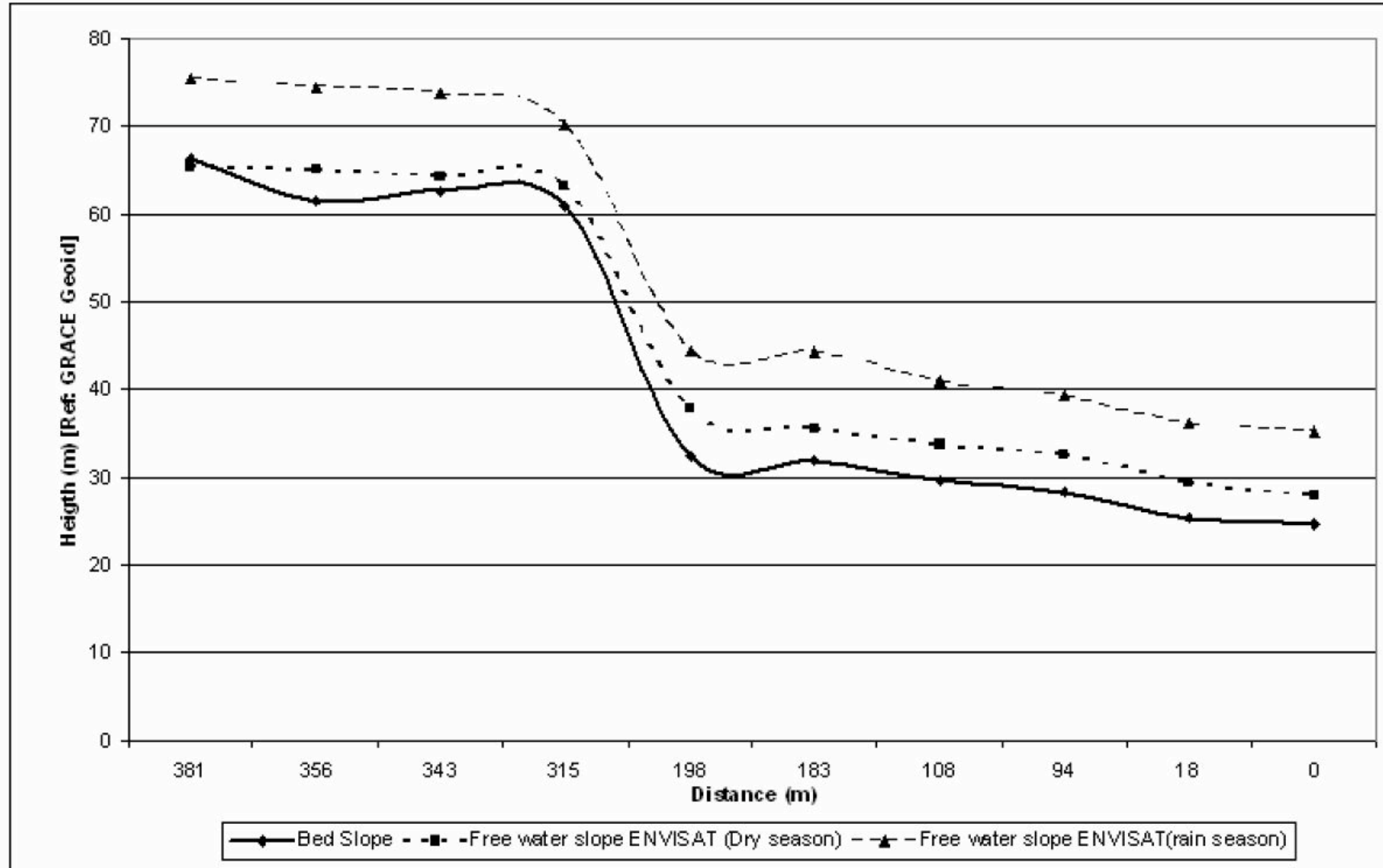
Courbes de tarage sur le Rio Caqueta



Profil d'altitude du lit du Caqueta



Profils hydrologiques du Rio Negro (bassin Amazonien)



Profil longitudinal de l' Amazone par ICESat

Pentes en mm/km

La mission d'altimétrie interférométrique WATER

