

SWOT Cal/Val on river

A few reminders

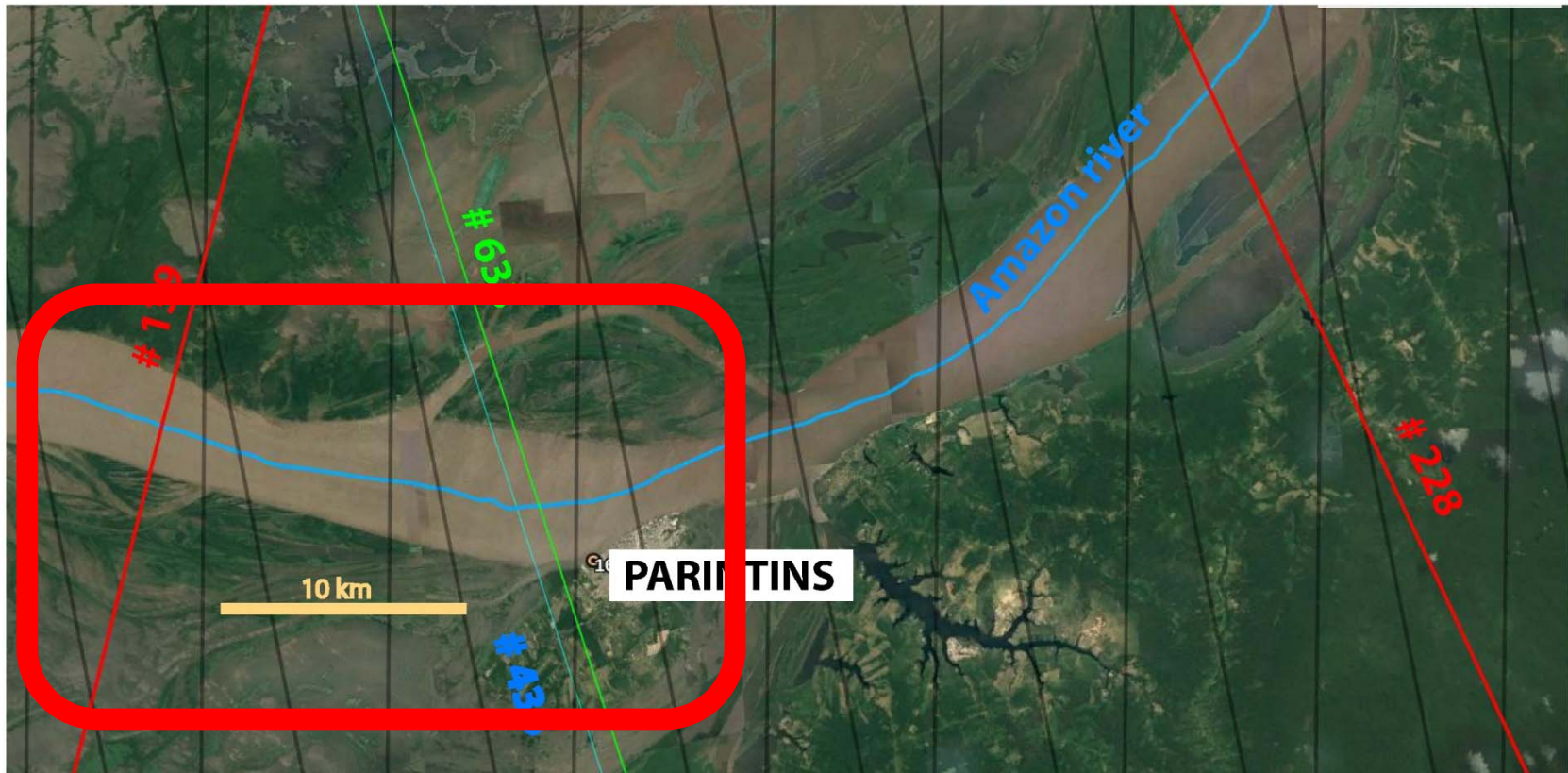
Our guidelines for future work

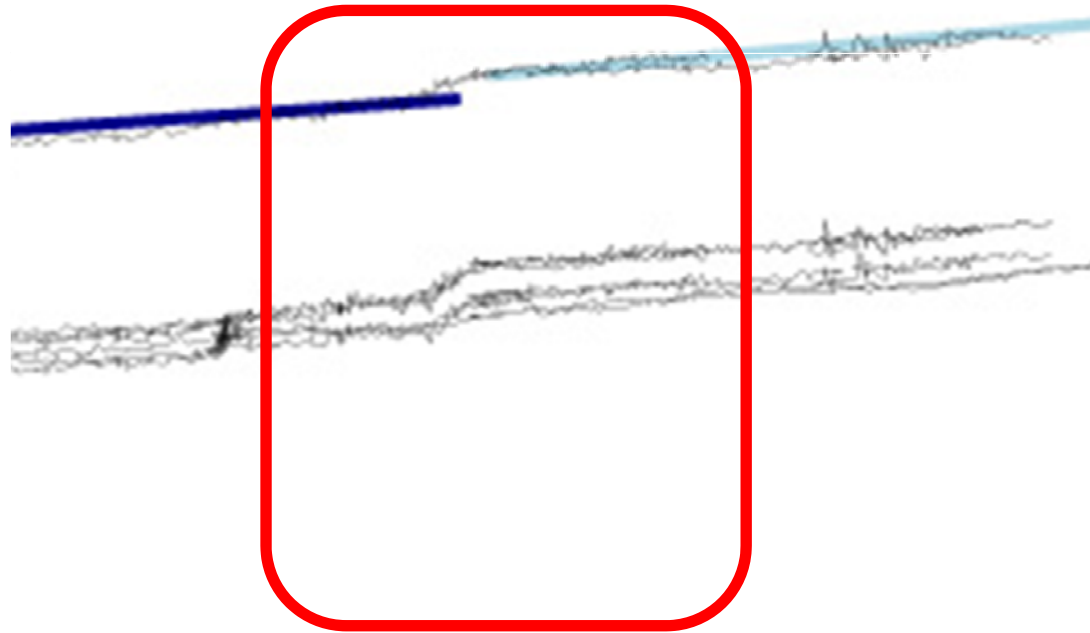


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Slopes by SWOT : a new challenge





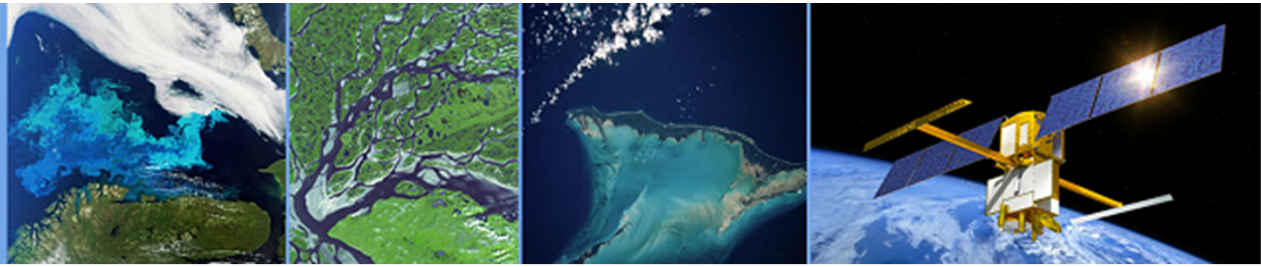
Changes in section geometry / river bed produce surface undulations (remember PAG's presentation yesterday) that SWOT SHALL capture

Hence, undulations that we must be able to capture, too (either by surveys or by appropriate modelling)

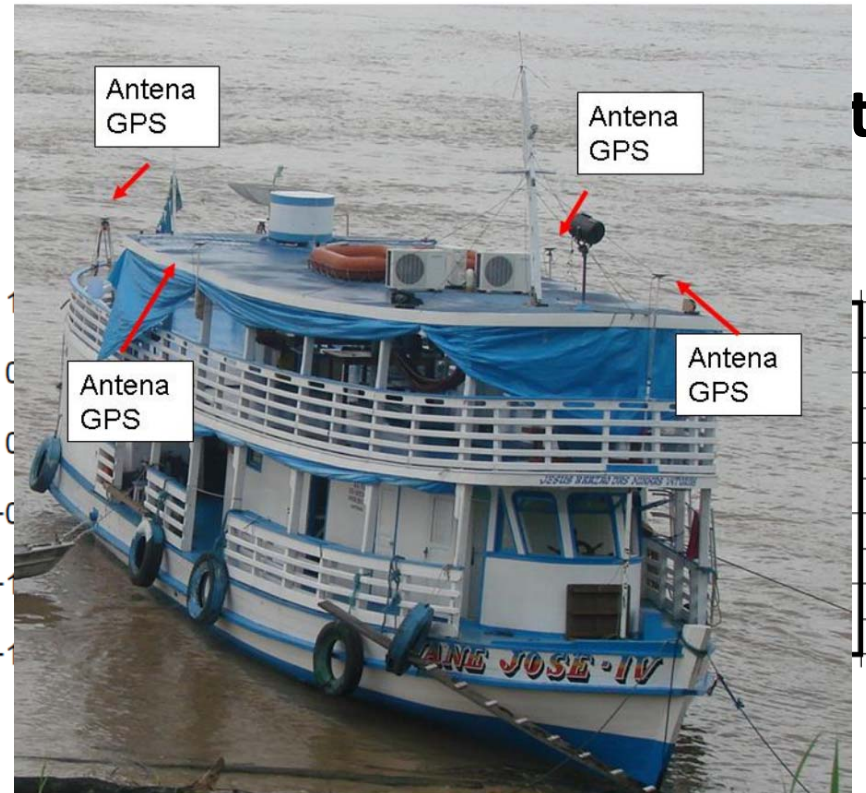
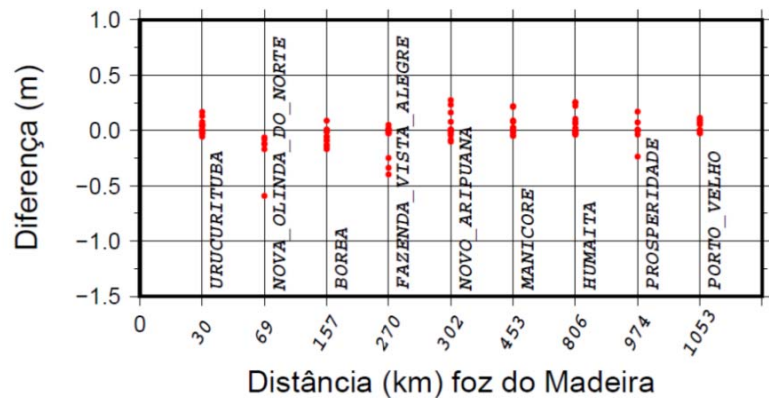
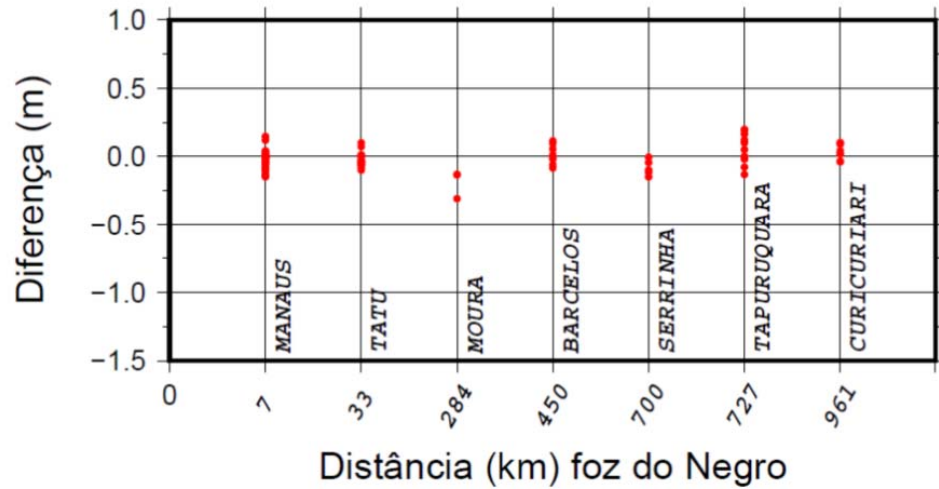
See the spectacular presentation by Pascal this afternoon



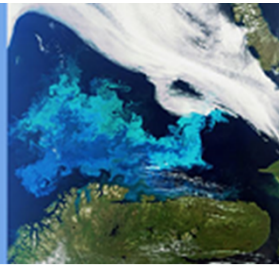
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Should we compare with any gauge ??

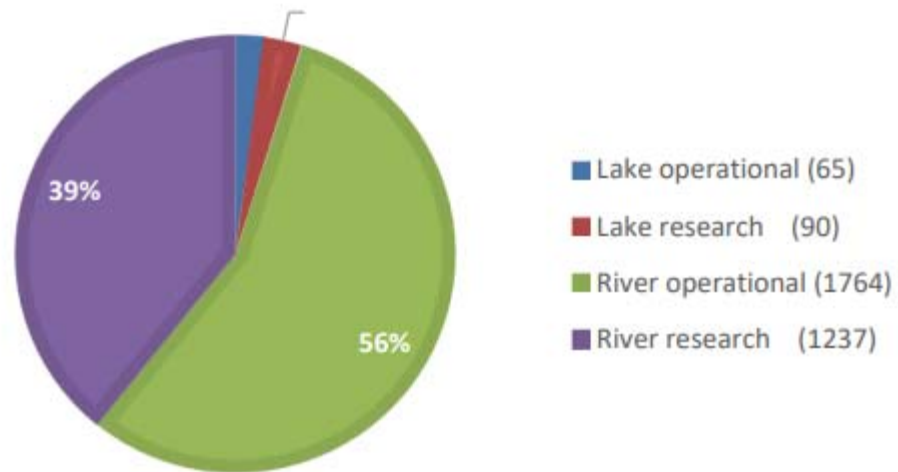


Diferença (m)



HYDROWEB

NUMBER OF PRODUCTS : 3156
(INCLUDING 1829 OPERATIONAL)



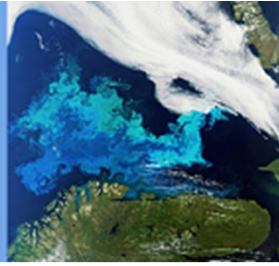
Objectives :
20-30 k of living SV
by end of 2020
(worldwide)

- Heights series
- discharge series at pilot basins
- Long wavelength slopes

+ other sensors (imagery, laser altimetry

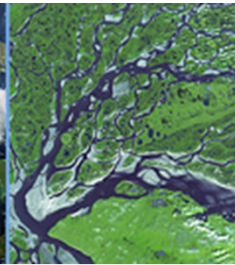
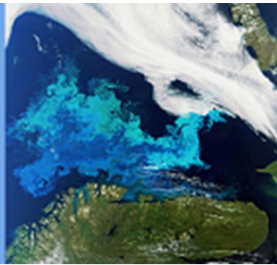


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The ScaHyLab International Lab focussed on SWOT/alti validation

Home Institution(s) of the membres of the GDRI-Sud <i>(add as many rows as needed)</i>	
Name of the Institution n° 1, Research unit, Country	Universidad Nacional de Colombia, sede de Cali, Colombia
Name of the Institution n° 2, Research unit, Country	Universidade do Estado do Amazonas, RHASA, Manaus, Brazil
Name of the Institution n° 3, Research unit, Country	Universidade Nacional de Brasilia, Brazil
Name of the Institution n° 4, Research unit, Country	Congo Basin Water Resources Research Center (CRREBaC), Université de Kinshasa, Congo (RDC)
Name of the Institution n° 5, Research unit, Country	Dept of Civil Engineering, IIT Bombay, Mumbai, India
Name of the Institution n° 6, Research unit, Country	Dept of Civil Engineering, IIT Kharagpur, Kharagpur, India
Name of the Institution n° 7, Research unit, Country	CPRM, departamento de hidrologia, Rio de Janeiro & Manaus, Brazil
Name of the Institution n° 8, Research unit, Country	Universidade Federal de Minas Gerais, Departamento de géografia, Belo Horizonte, Brazil
Name of the Institution n° 9, Research unit, Country	Universidade Federal de Minas Gerais, Departamento de Hidraulica, Belo Horizonte, Brazil
Name of the Institution n° 10, Research unit, Country	Universidade Federal de Rio Grande do Sul, Porto Alegre, Brazil
Name of the Institution n° 11, Research unit, Country	Université d'Antananarivo, Institut Observatoire de Géophysique et Astronomie, Antananarivo, Madagascar
Name of the Institution n° 12, Research unit, Country	Office de l'Eau de Guyane, Cayenne, Guyane Française
Name of the Institution n° 13, Research unit, Country	Université de Strasbourg, ICUBE, Strasbourg, France
Name of the Institution n° 14, Research unit, Country	IRD, LEGOS, Toulouse, FRANCE
Name of the Institution n° 14, Research unit, Country	CNES, LEGOS, Toulouse, FRANCE
Name of the Institution n° 15, Research unit, Country	IRD, GET, Toulouse, FRANCE
Name of the Institution n° 16, Research unit, Country	IRD, ESPACE-DEV, Montpellier, FRANCE



ScaHyLab gather people around a list of “Tier 2/ Pilot ...” sites where :

- collect water levels
- Slopes and water lines
- Cross sections
- Discharge
- DEM
- Images
- Tune models

With common tools and models

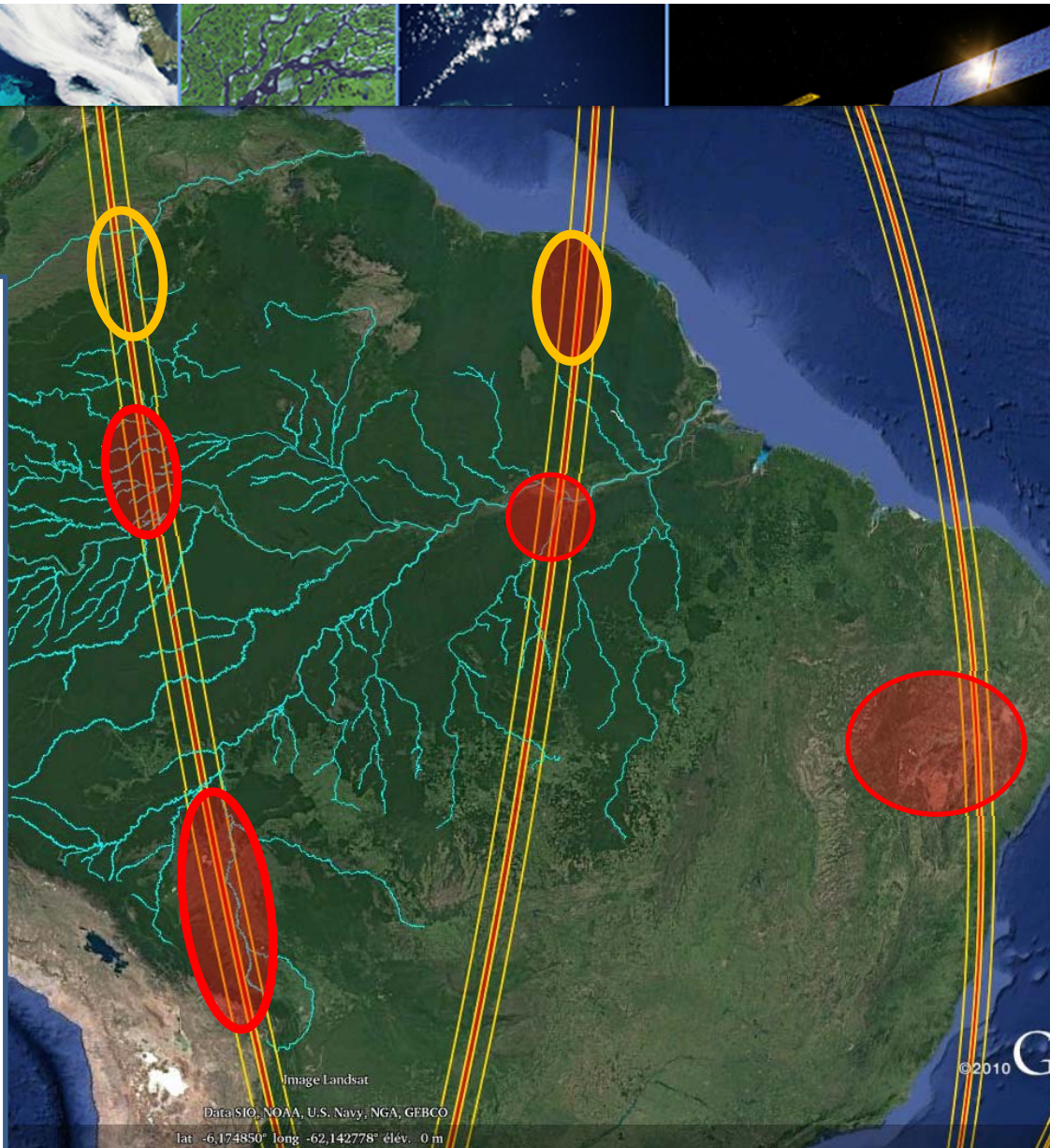
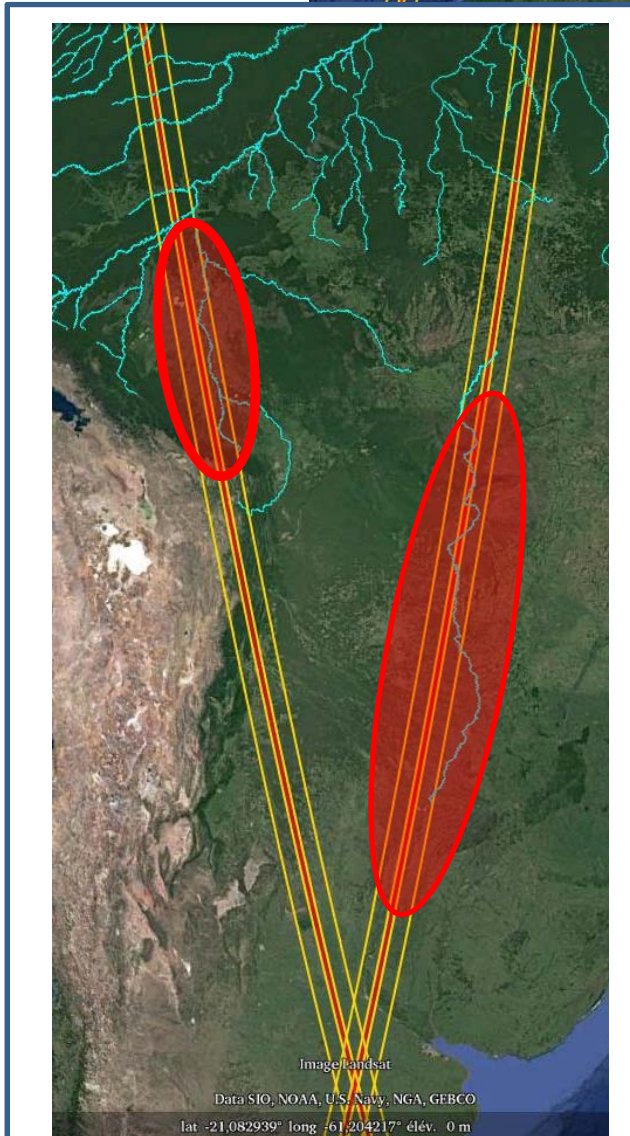
Joined efforts of international teams motivated
for long term efforts

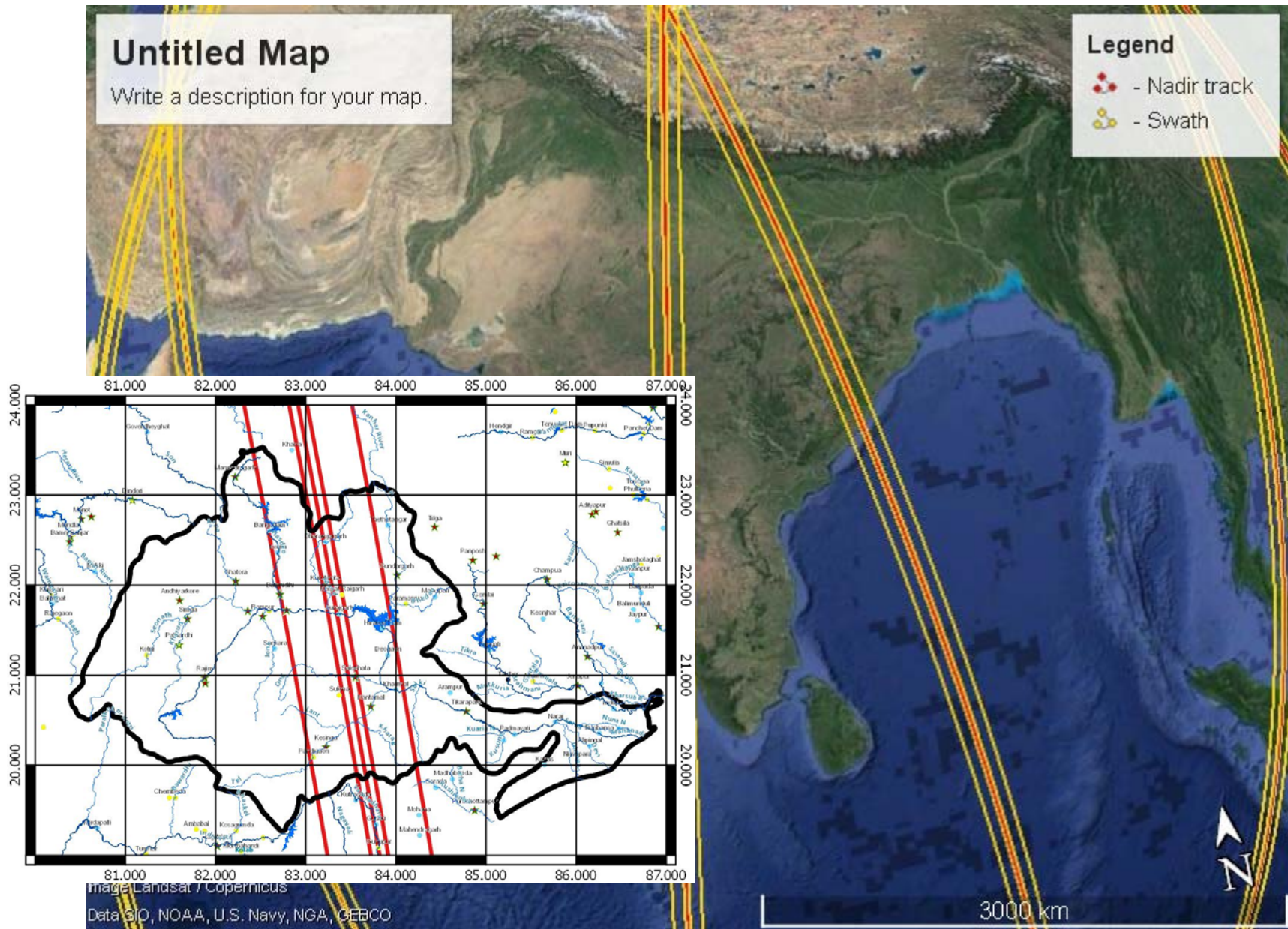


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The MAHANADI Bassin site in India



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Establishing a database of levelled stations

