

6th HYBAM Scientific Meeting

29/10/2015

Cusco – Peru



***An Amazonian fluvial survey
Contributions to a strategic action plan
on water resource management to the
world biggest watershed***

Filizola N.P. ⁽¹⁾, Oliveira T.C. ⁽²⁾, Armijos E.N. ⁽¹⁾ ⁽³⁾, Zumak A. ⁽¹⁾, Fraizy P. ⁽⁵⁾,
Alfenas J.B. ⁽⁶⁾, Sampaio F. ⁽¹⁾, Melo E. ⁽⁴⁾, Fenzl N. ⁽⁷⁾

LAPA-Geog/UFAM⁽¹⁾; Dep. Qui/UFAM⁽²⁾; CLIAMB/INPA⁽³⁾; SIPAM⁽⁴⁾; IRD⁽⁵⁾; CPRM⁽⁶⁾, GEF/OTCA⁽⁷⁾



H₂A
Hidrossistemas e o
Homem na Amazônia





Partnership

6th scientific Meeting

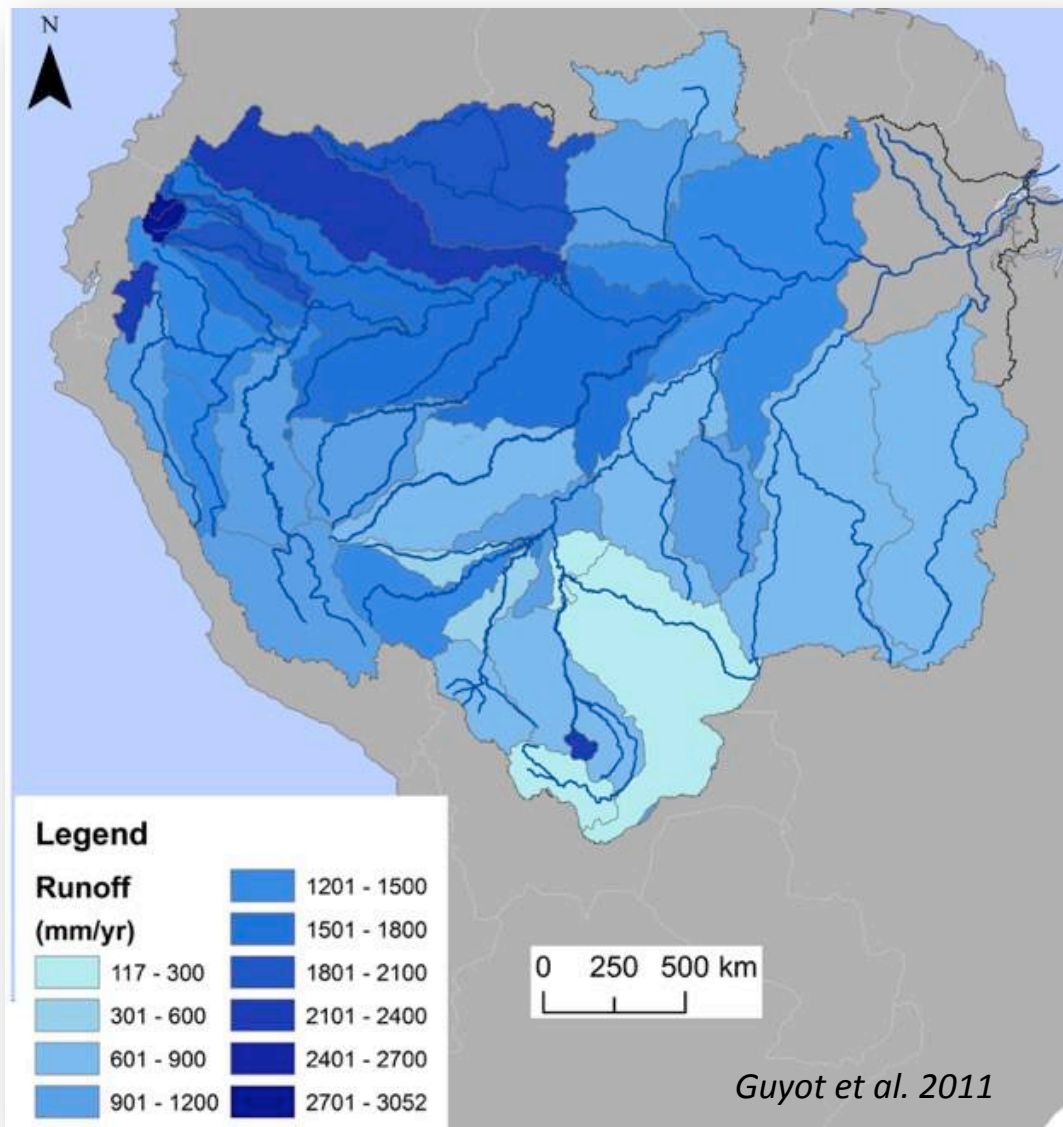
HyBAm



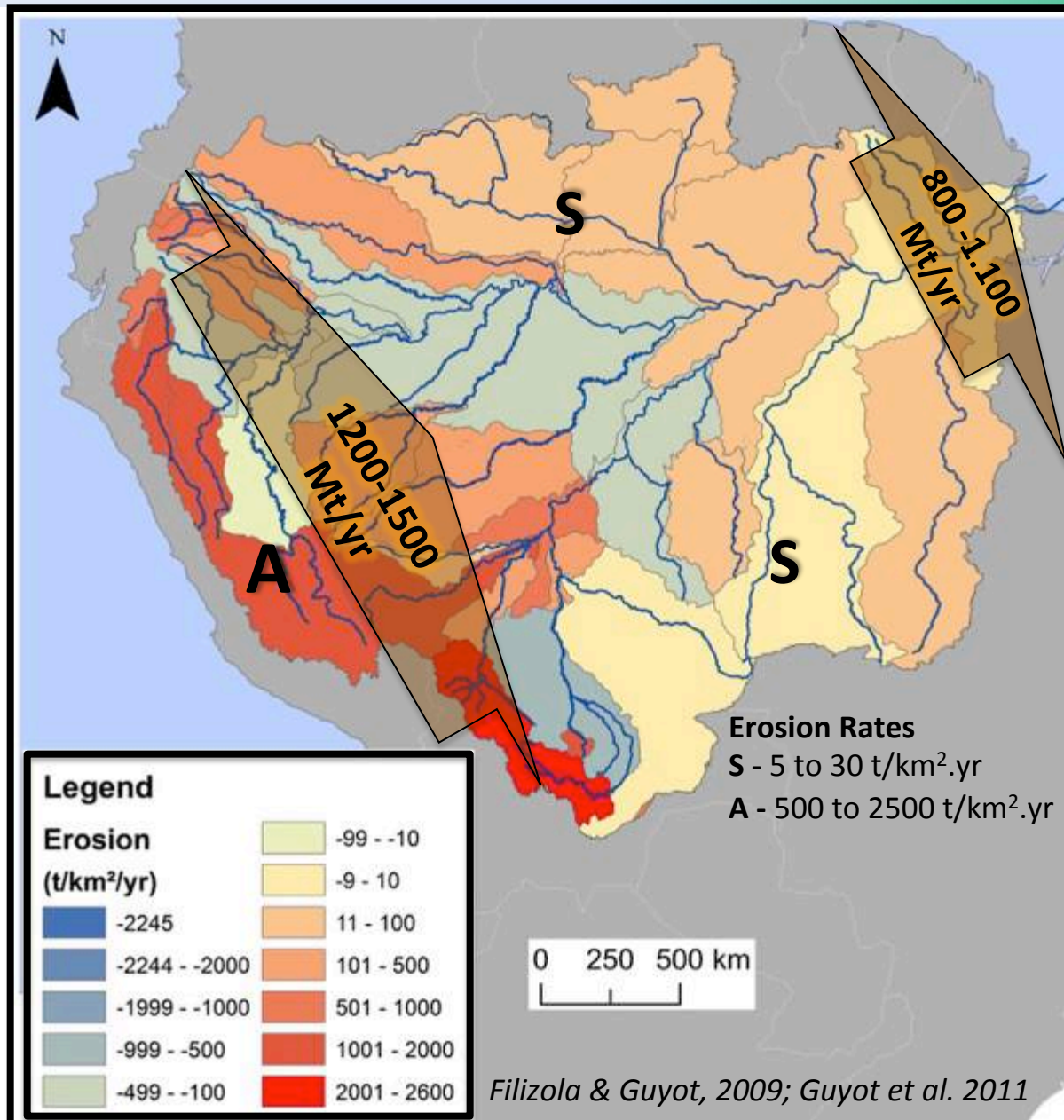
H₂A

Hidrossistemas e o Homem na Amazônia

What we know?



What we know?



What we know?



Source: <http://www.euandopelomundo.com/blog/ferias-em-manaus>



No bairro Presidente Vargas, cheia deixou lixo acumulado próximo das casas (Foto: Suelen Gonçalves/G1 AM)

H₂A

Hidrossistemas e o
Homem na Amazônia

What we know?

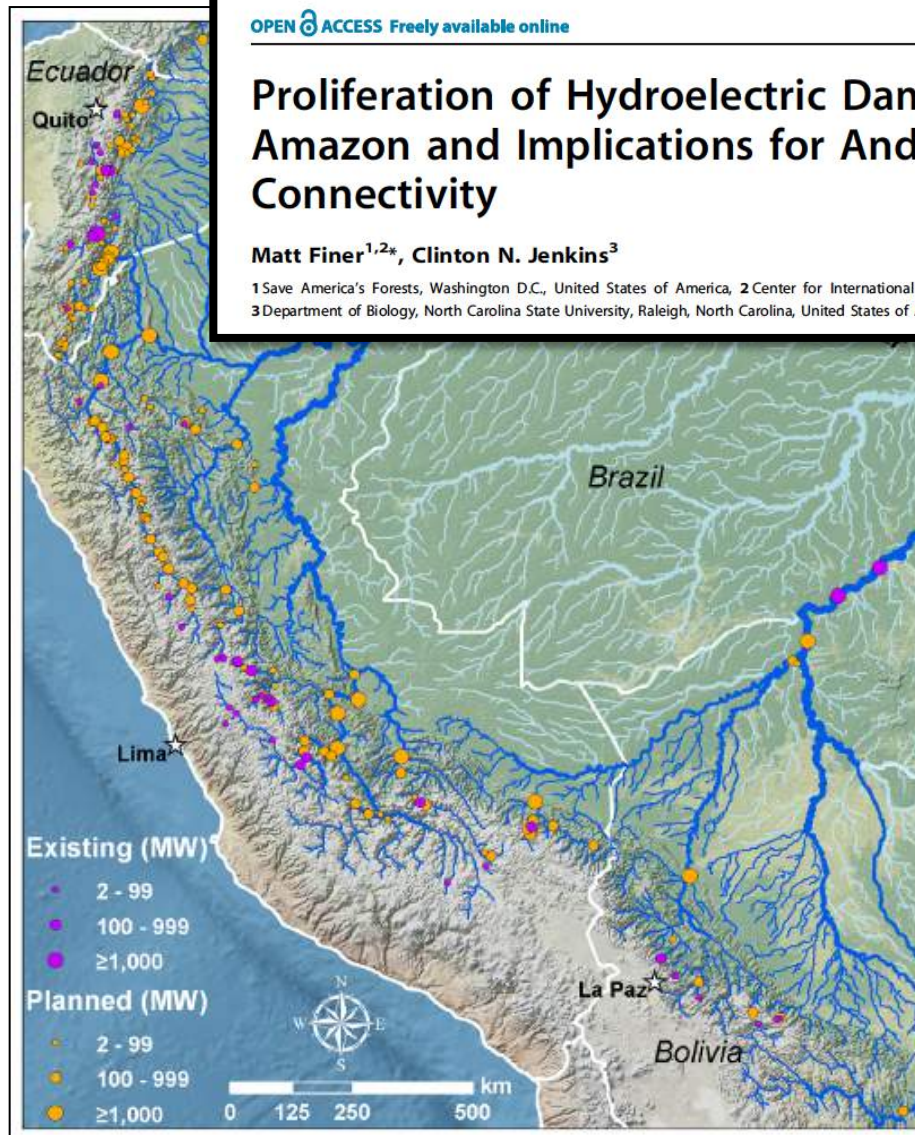
OPEN ACCESS Freely available online

PLOS one

Proliferation of Hydroelectric Dams in the Andean Amazon and Implications for Andes-Amazon Connectivity

Matt Finer^{1,2*}, Clinton N. Jenkins³

¹Save America's Forests, Washington D.C., United States of America, ²Center for International Environmental Law, Washington D.C., United States of America, ³Department of Biology, North Carolina State University, Raleigh, North Carolina, United States of America



H₂A

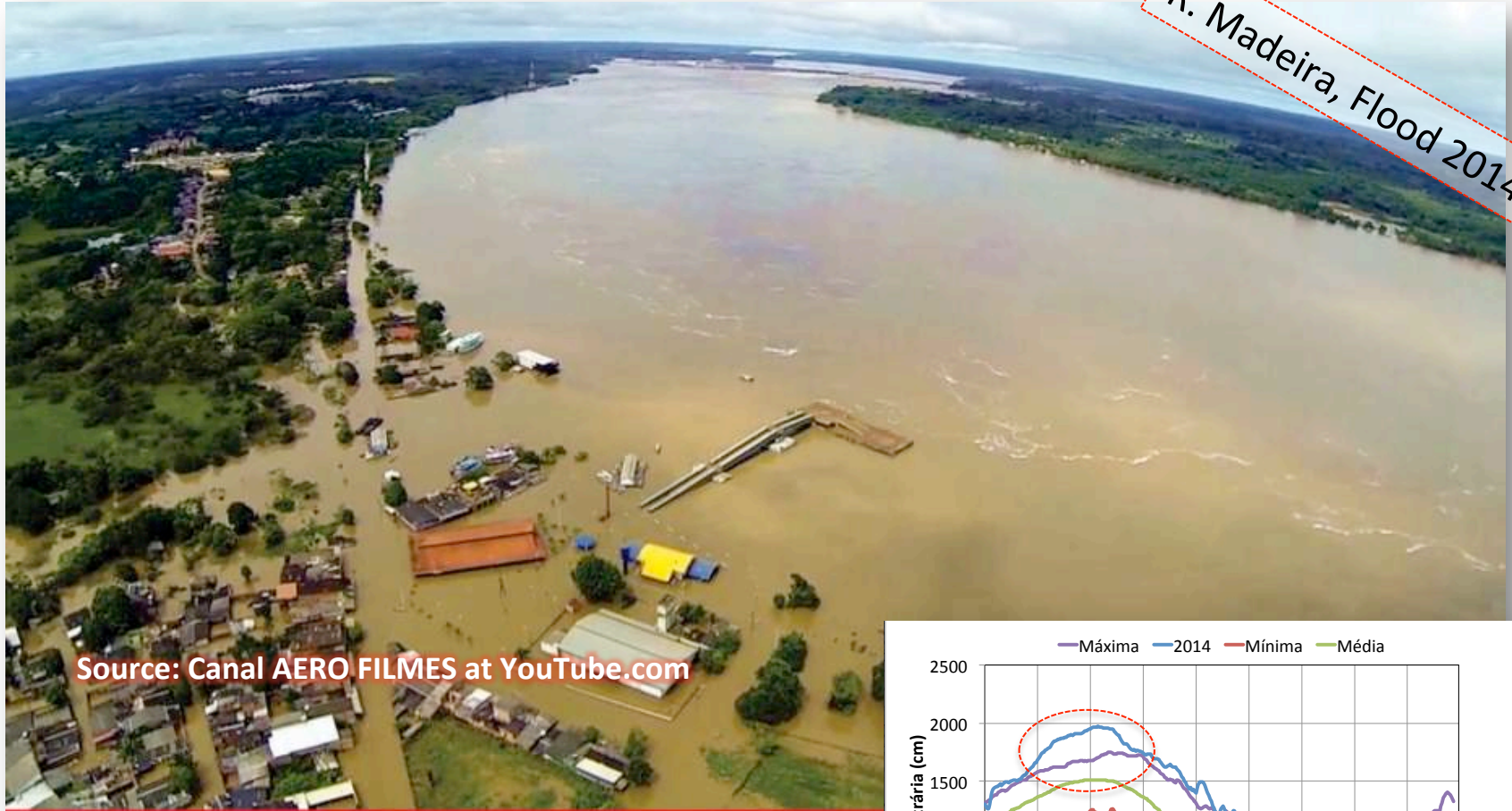
Hidrossistemas e o Homem na Amazônia

What we know?

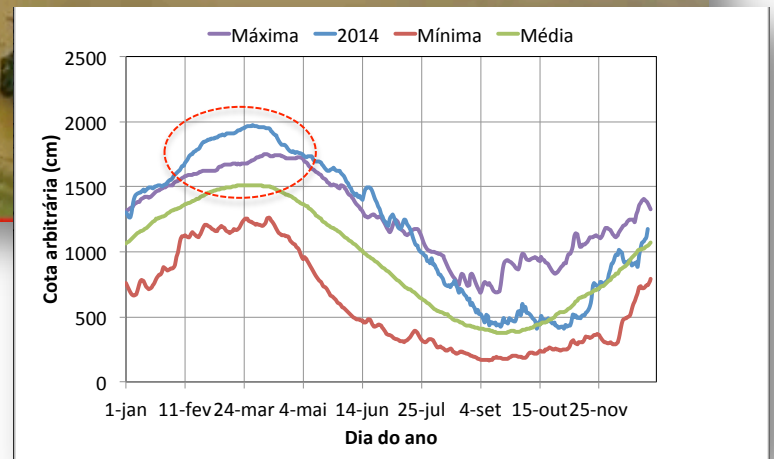


H₂A

Hidrossistemas e o
Homem na Amazônia



Source: Canal AERO FILMES at YouTube.com



29/05/2015 18h30 - Atualizado em 29/05/2015 18h47

FOTOS: Cidade alagada no Amazonas

Mais de 70 mil pessoas foram afetadas pela cheia do Rio Solimões em Anamá e outros 5 municípios.

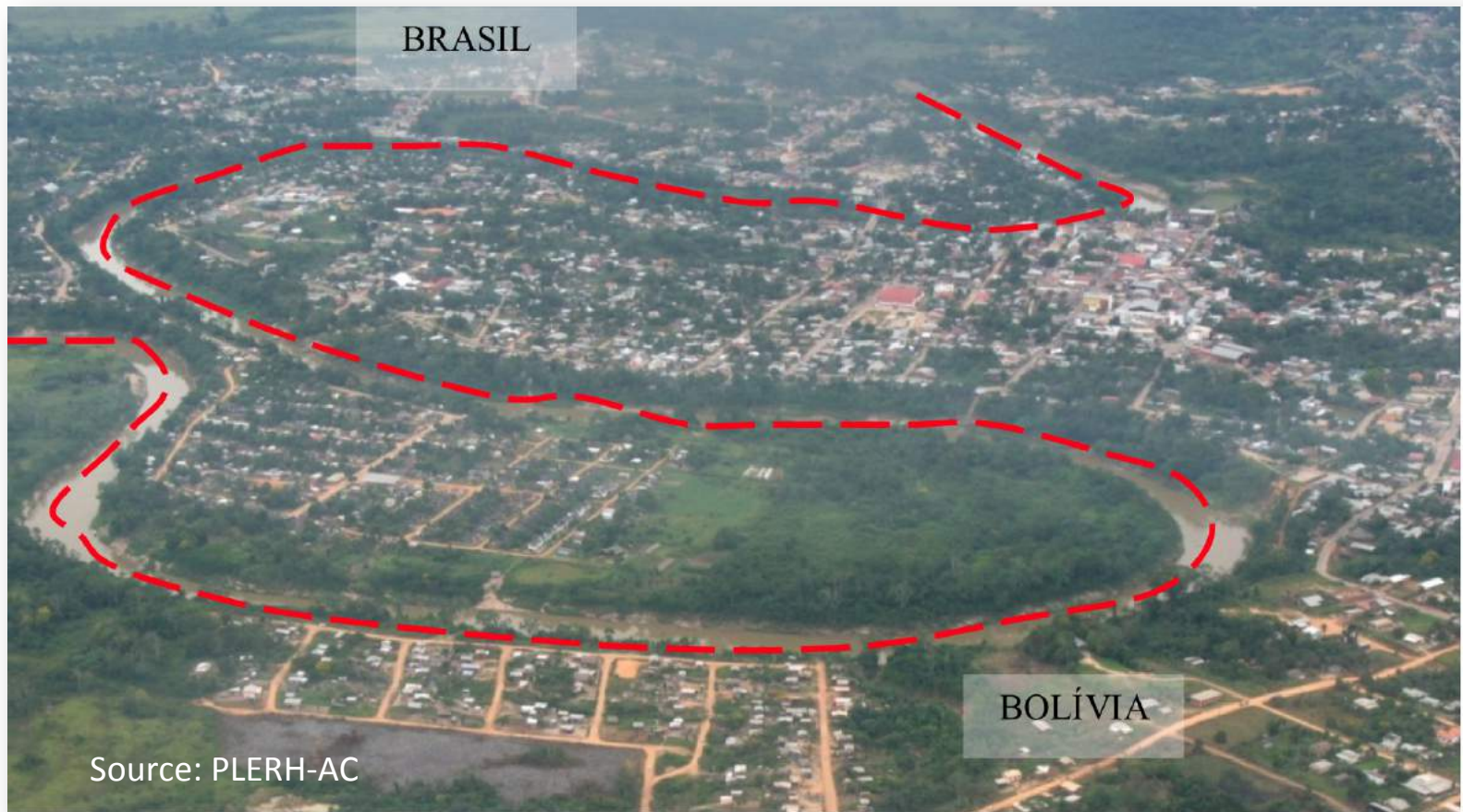
Flood, 2015



Source: <http://g1.globo.com/am/amazonas/fotos/2015/05/fotos-cidade-alagada-no-amazonas.html#F1650353>

O Que sabemos?

Water and Transboundary Areas

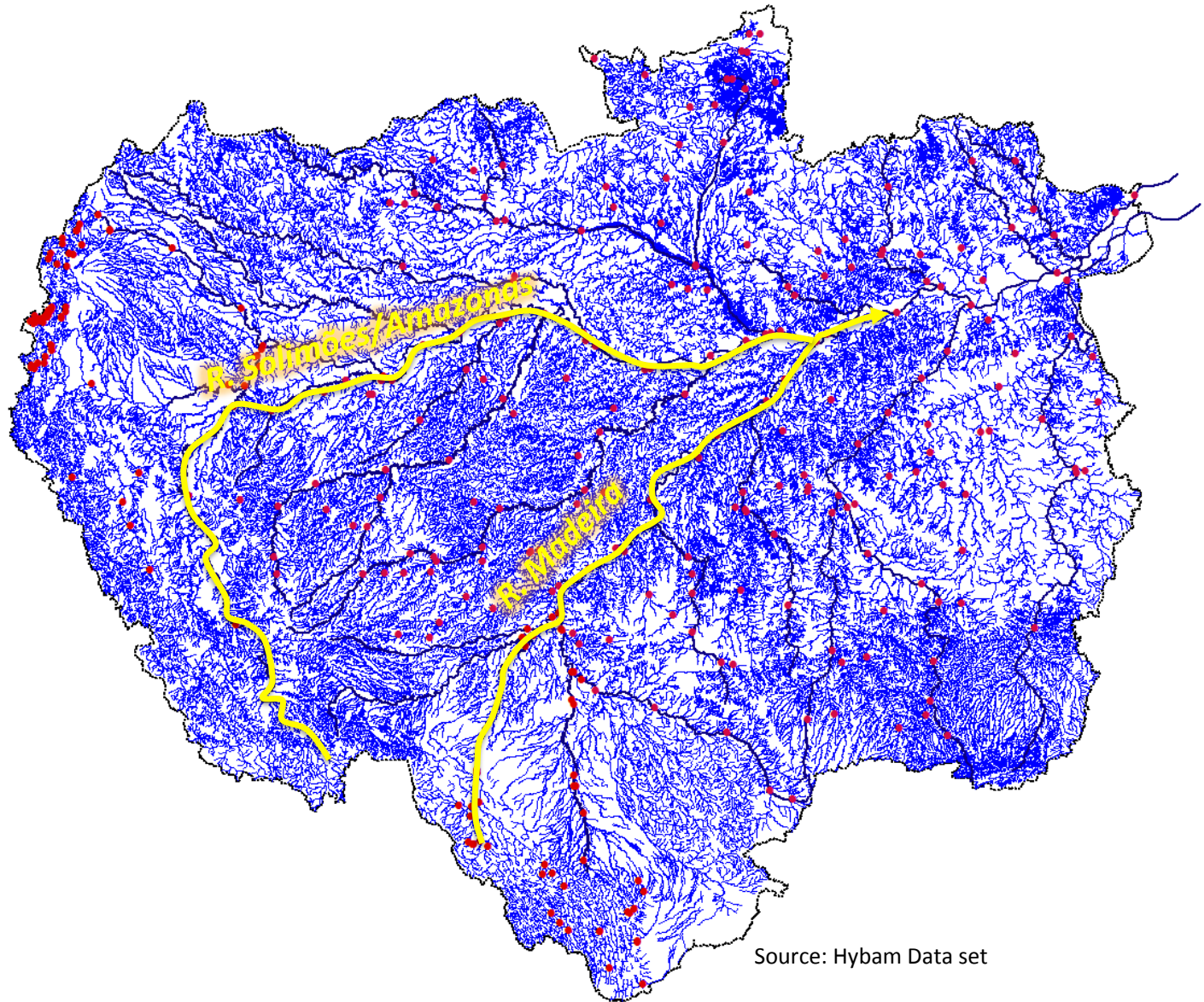




What we did ...

6th scientific Meeting

HyBAm



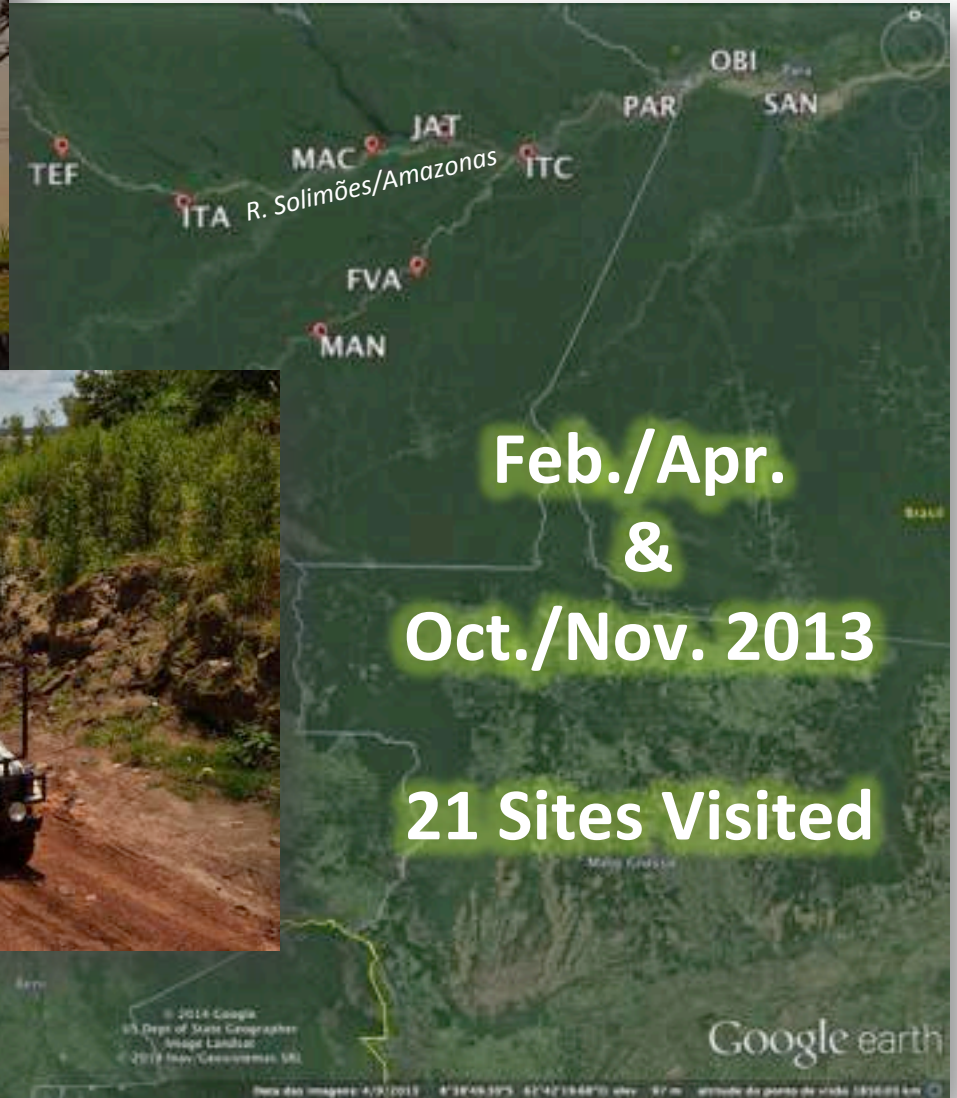
Source: Hybam Data set

H₂A

Hidrossistemas e o
Homem na Amazônia



What we did ...



Feb./Apr.
&
Oct./Nov. 2013
21 Sites Visited



H₂A

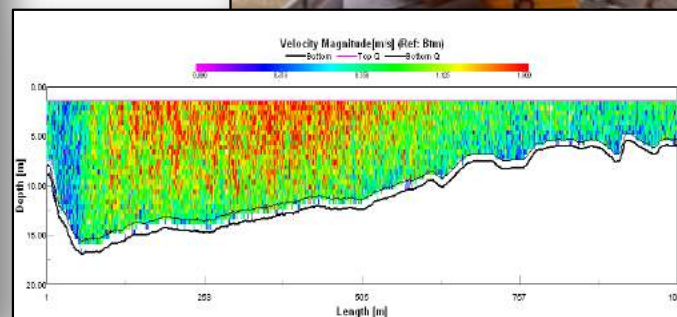
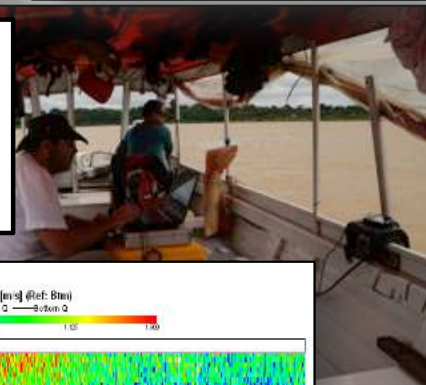
Hidrossistemas e o
Homem na Amazônia



What we did ...



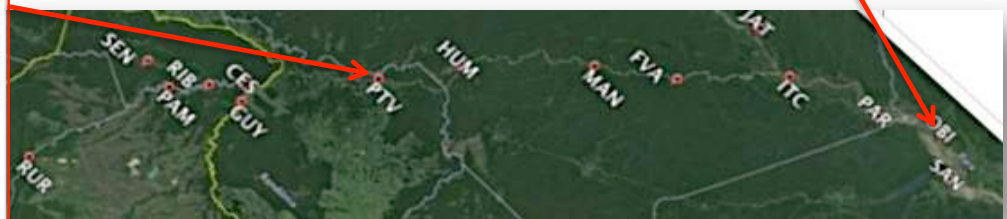
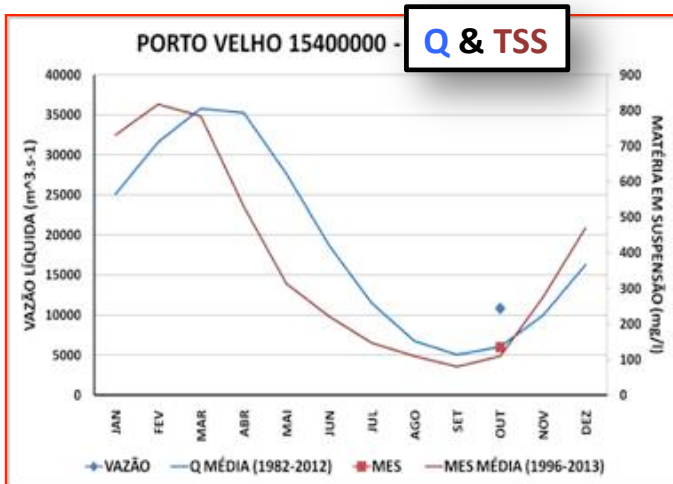
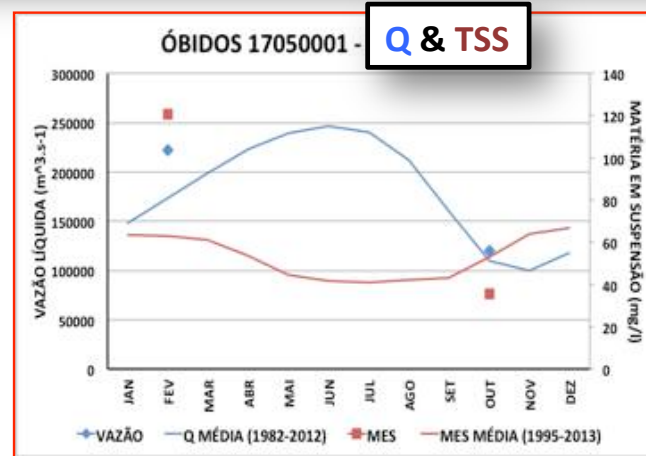
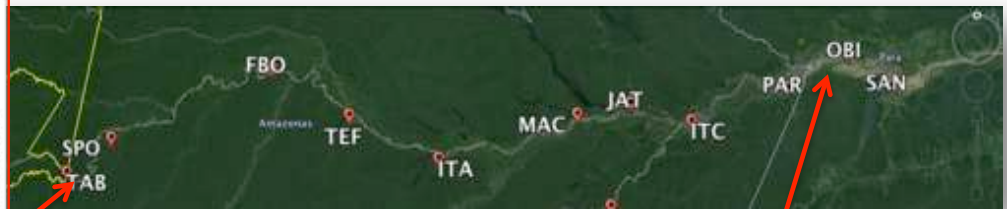
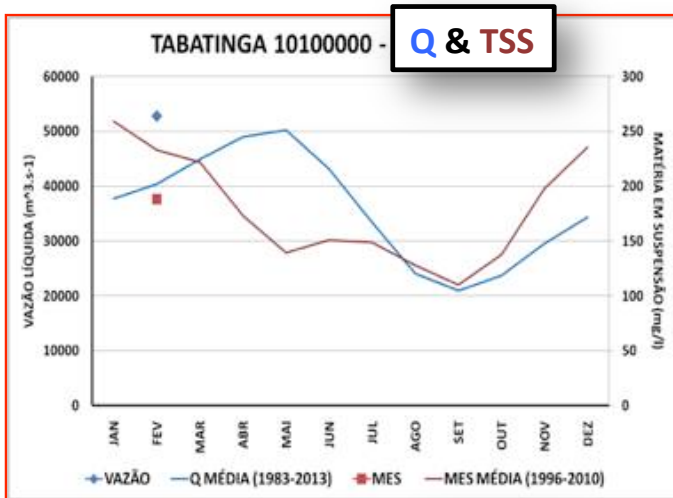
72 WATER & 24 SEDIMENT
SAMPLES
24 DISCHARGE
MEASUREMENTS



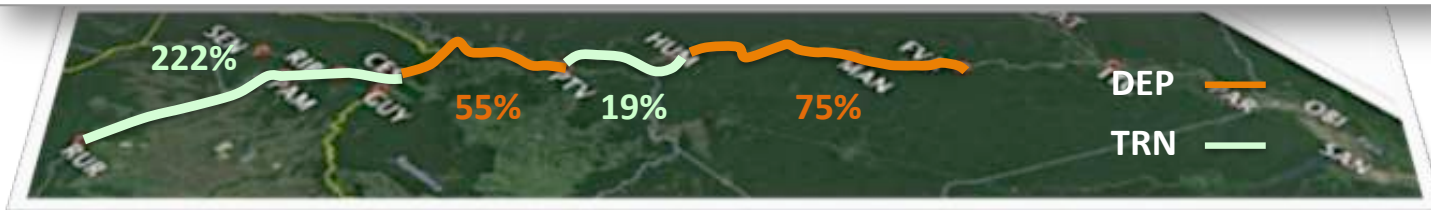
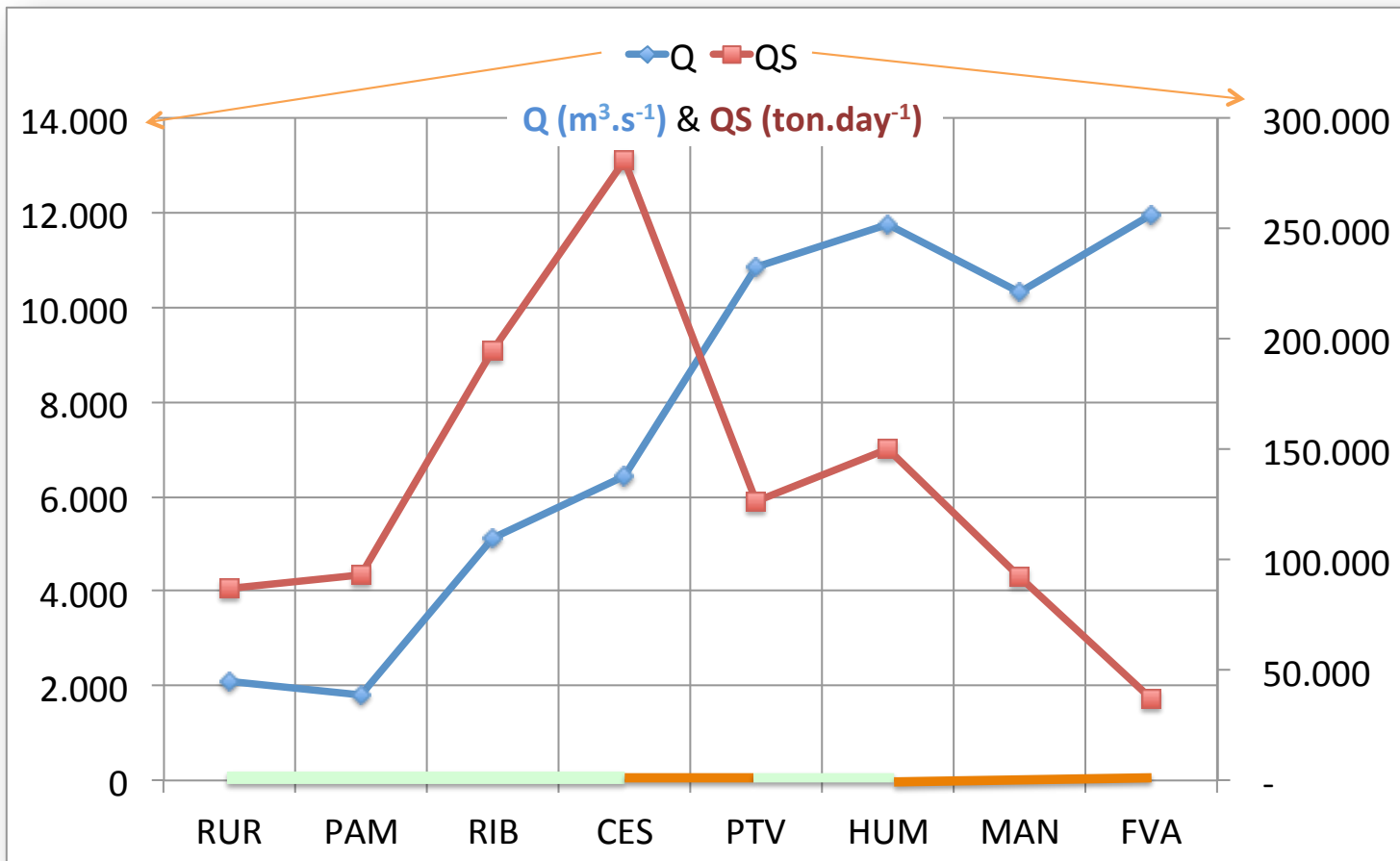
H₂A

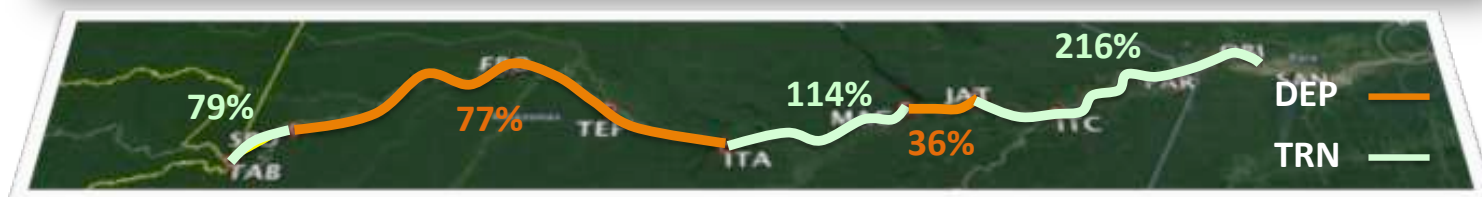
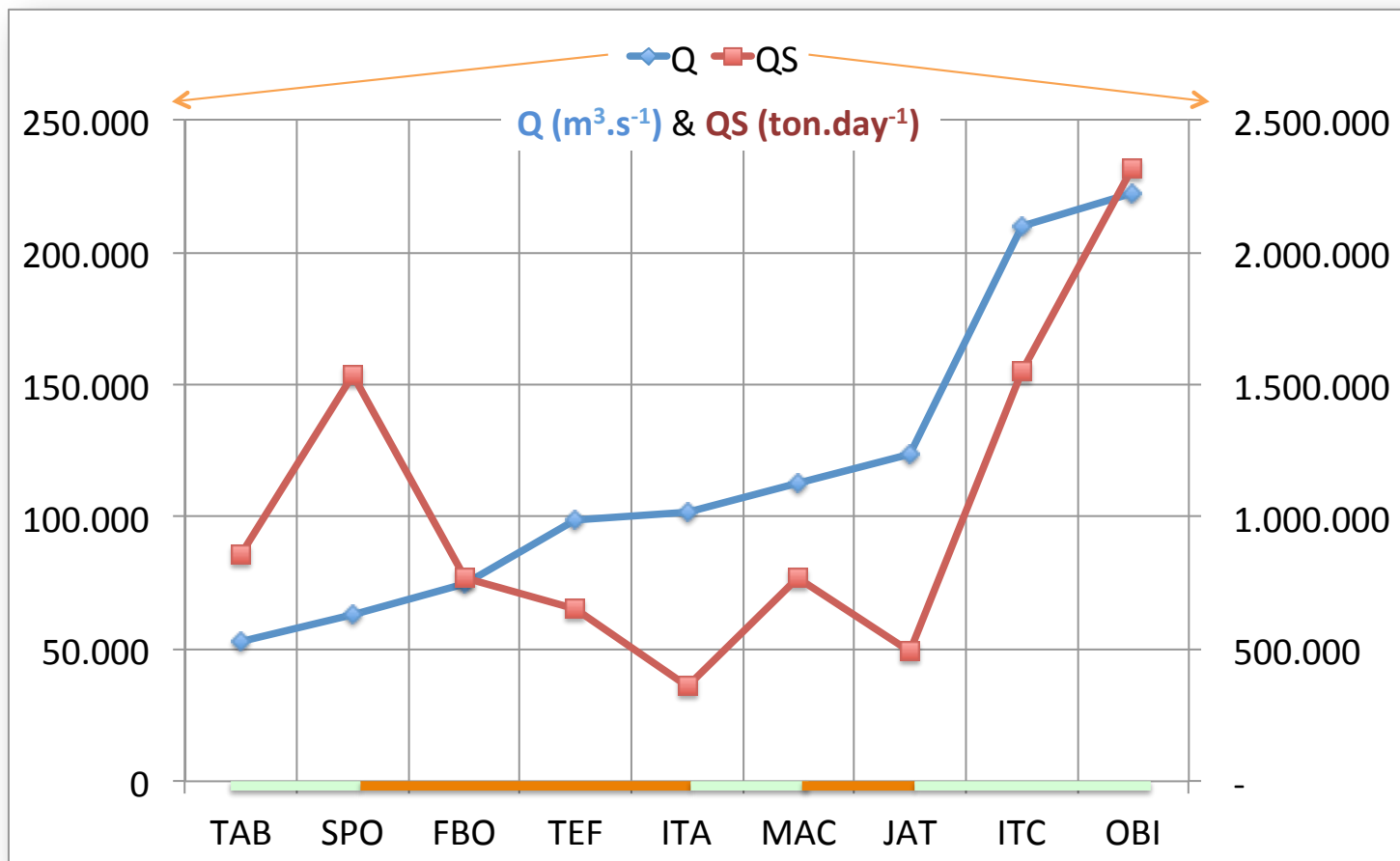
What we did ...

Q ($m^3 \cdot s^{-1}$) & TSS ($mg \cdot l^{-1}$)

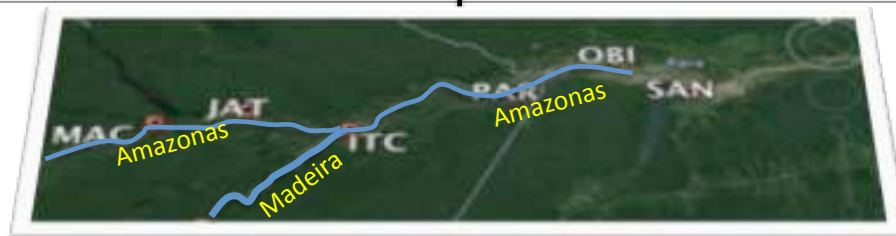
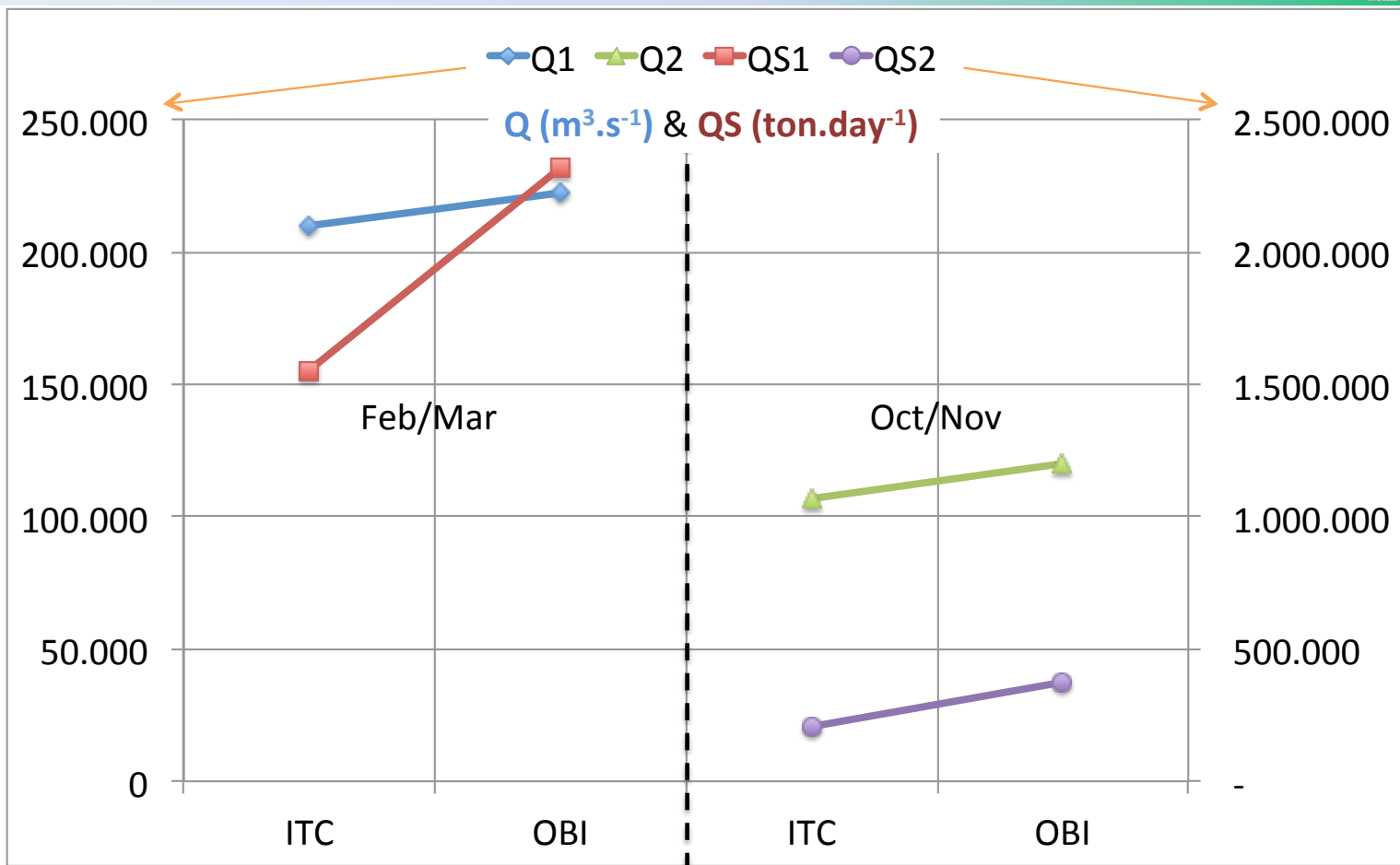


The results



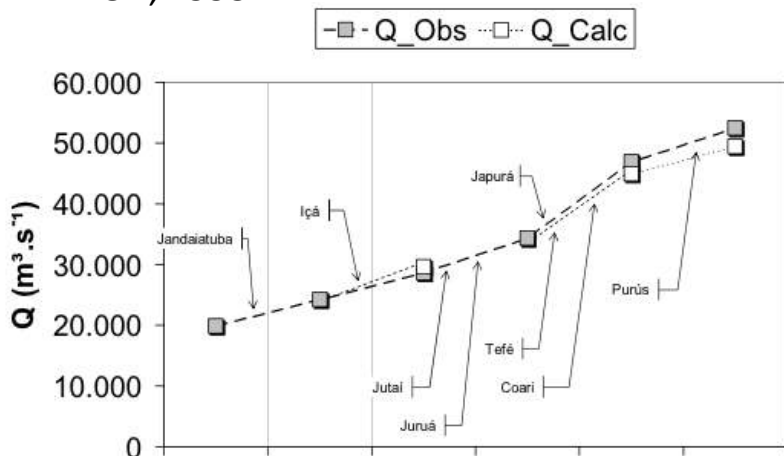


The results

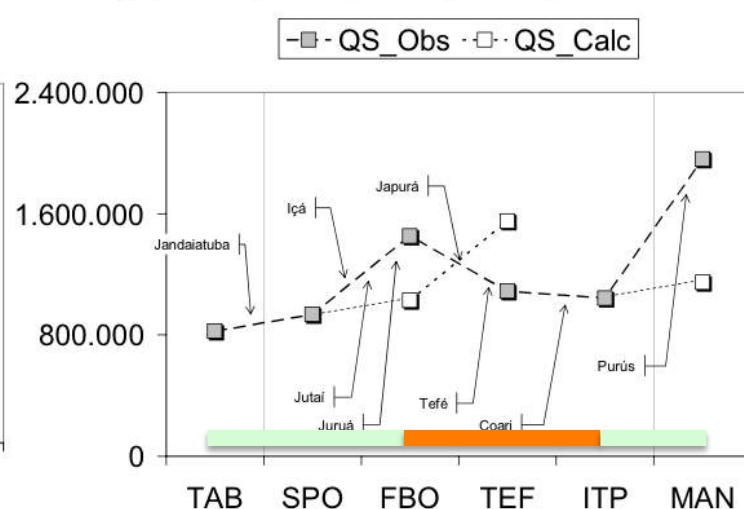
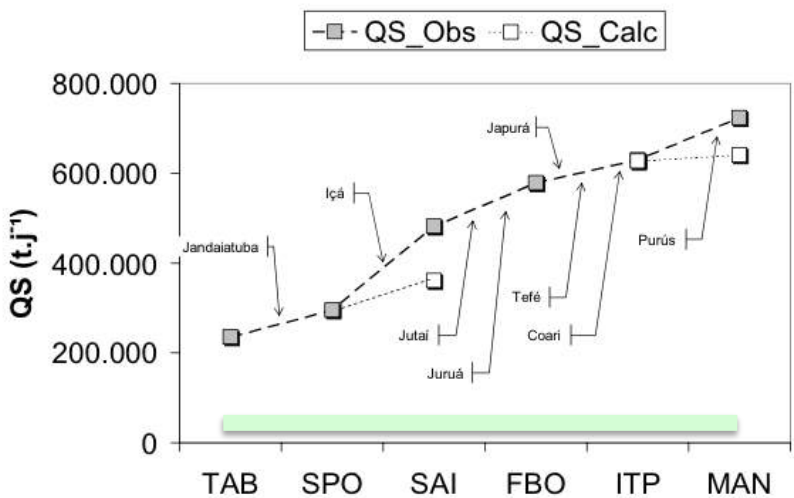
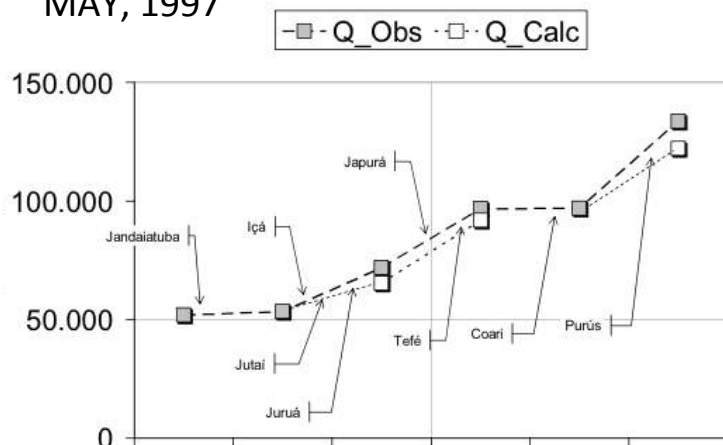


River Solimões

NOV, 1995



MAY, 1997



H₂A

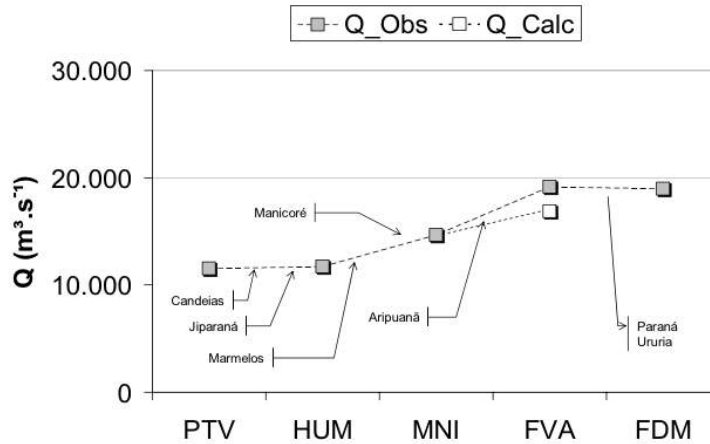
Filizola, 2003

ITA=ITP

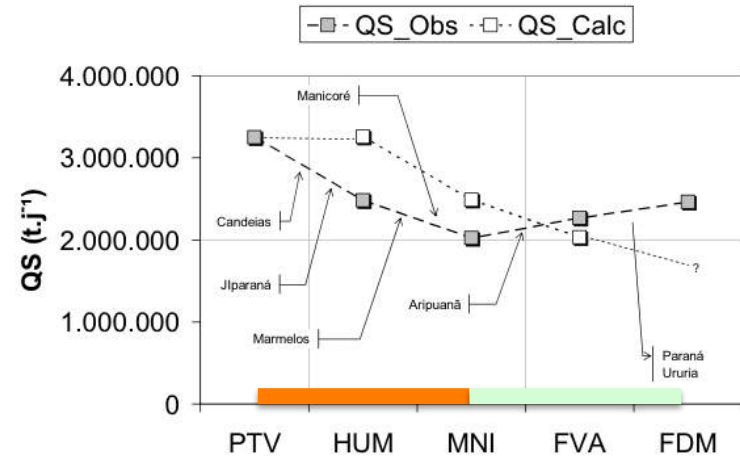
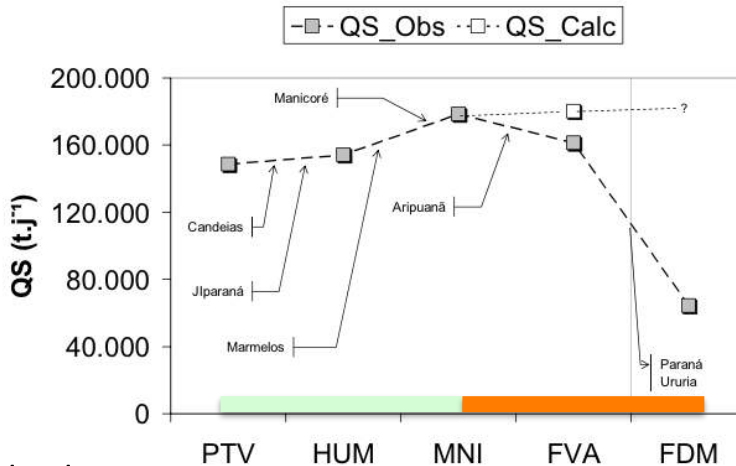
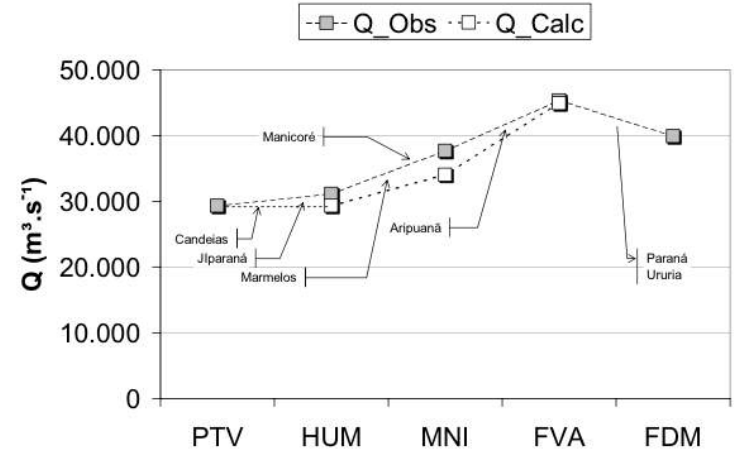
A comparison

River Madeira

JUN, 1995



APR, 1998

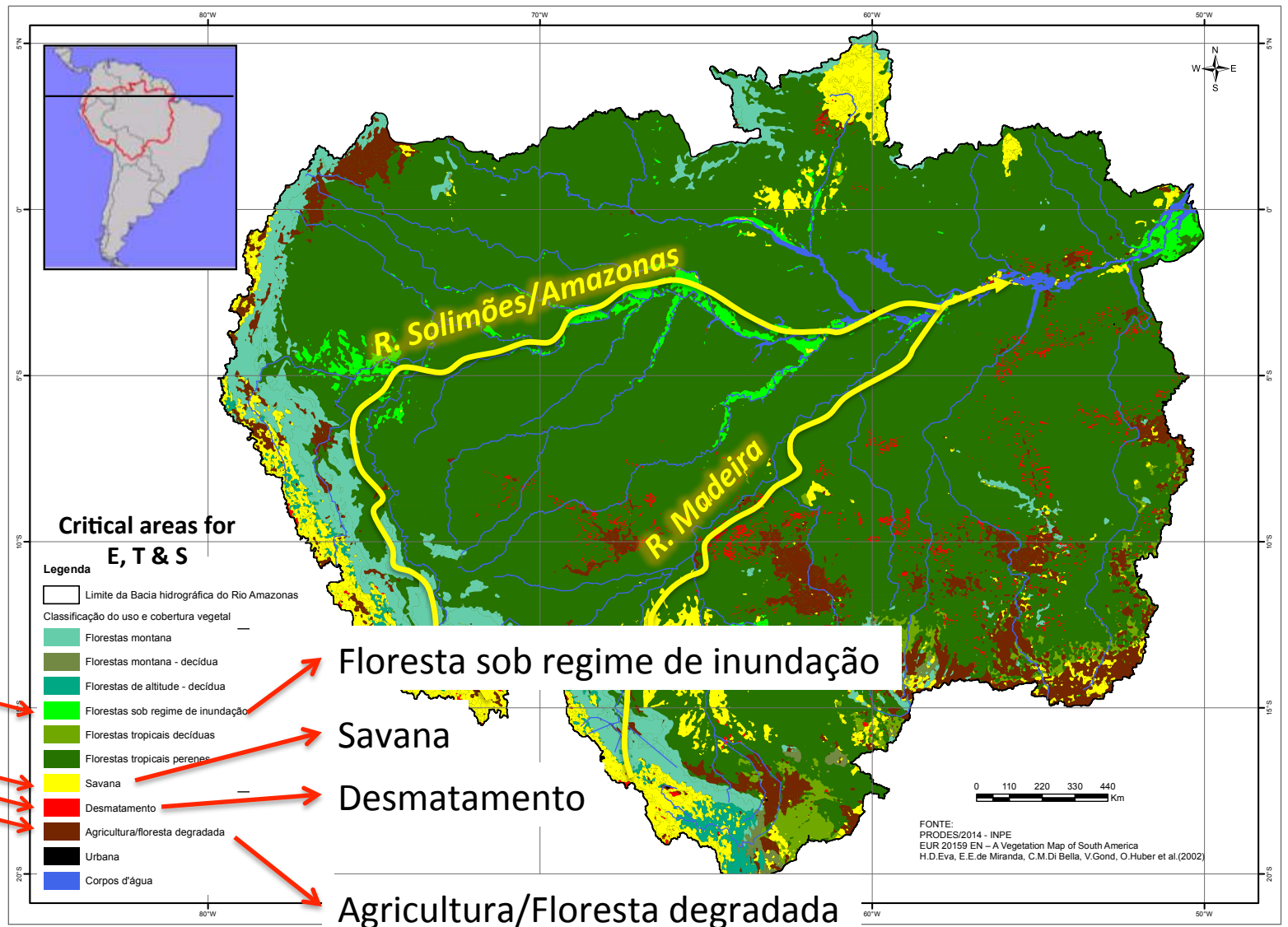


H₂A

Filizola, 2003

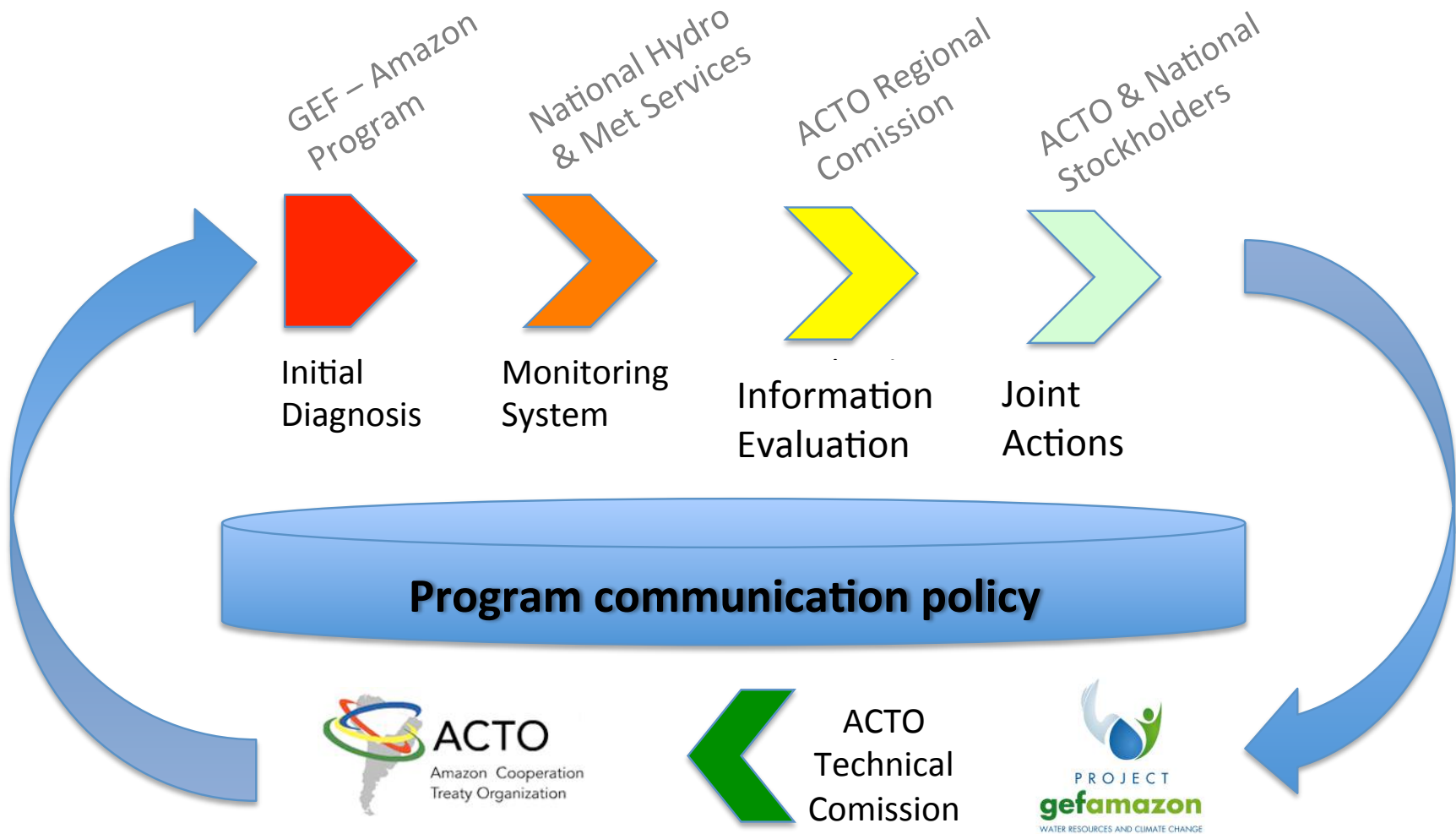
Obs. MAN=MNI







What we want with this ?



Source: ACTO&GEF/SAP

Protocol/Demands, Systematic review

H₂A

Hidrossistemas e o Homem na Amazônia

Thank you!

nazianofilizola@ufam.edu.br

26 a 31 de outubro de 2015 - Cusco, Peru