



8th HYBAM International Conference

Environmental threats & climatic changes in the Amazon

Toulouse, 02-06/09/2019

Preliminary Program

Monday

Session	Monday PM	First Author	Title
<i>Opening session</i>	14:30		Official opening
	15:20	Jérôme Gaillardet	Critical Zone science; what is it?
	15:40	José Miguel Sanchez Perez	Nouveaux enjeux environnementaux concernant la ressource en eau à l'échelle globale : vers une meilleure quantification des flux d'eau, de matière et de contaminants à l'échelle des grands hydrosystèmes.
	16:00	Julien Jouanno	Sensitivity of the physical and biogeochemical variability of the Tropical Atlantic to Amazon river runoff: modeling, difficulties, and potential links with sargassum massive standing.
	16:20	Yves Godderis	Mountain ranges, climate and weathering. Do orogens strengthen or weaken the silicate weathering carbon sink?
	16:40	Fabien Lefèvre	Le projet de plateforme de modélisation basé sur l'hydrologie spatiale sur le bassin de l'Amazonie : HYDROSIM
	17:00	Jérôme Murienne	Advances and prospects of environmental DNA monitoring in Amazonian freshwater ecosystems
	17:20	Thierry Oberdorff	A trans-national collaborative project for a comprehensive database on Amazonian fish distribution- AmazonFish
	17:40	Jérôme Chave	Le LABEX AMAZONE : Centre d'étude de la biodiversité amazonienne
	18:00		COCKTAIL

Tuesday

<i>Geomorphology</i>	09:00	Jorge Molina	Proyectos de embalses en la Amazonia boliviana
	09:20	Rogério Marinho	Monitoring of suspended sediments in the Negro River (Amazon Basin) with remote sensing
	09:40	Philippe Vauchel	Nouveau bilan des flux sédimentaire des sous-bassins de l'Amazonie en Équateur
	10:00	Sébastien Carretier	Leçons de la synthèse des taux d'érosion au Chili
			COFFEE BREAK
<i>Geomorphology</i>	10:50	Sergio Morera	Estimating erosion rates and identifying main sediment sources in the north-western of the upper Amazon basin
	11:10	William Santini	An index concentration method for suspended load monitoring in large rivers of the Amazon foreland
	11:30	Carlo Gualtieri	Hydrodynamics and morphodynamics at an anabranching reach of Solimões-Amazon river
	11:50	Discussions	Which new observations do we need for the understanding of erosion, transport and deposition processes in the Amazon ?
	Tuesday PM		Title
<i>Climatic, hydrological and biological evolutions of the Amazon catchment of geological times</i>	14:00	Pierre-Olivier Antoine	Cenozoic evolution of Western Amazonian ecosystems
	14:20	Martin Roddaz	Provenance constraints on the Cretaceous-Cenozoic drainage evolution of the Amazon basin
	14:40	Roberto Ventura	Evolution of Northern South America (source to sink approach) during the Cretaceous and Cenozoic
	15:00	Jérôme Chave	Régionalisation de l'Amazonie et les conséquences sur la biodiversité
			COFFEE BREAK
<i>Paleohydrology and Paleoclimatology</i>	15:50	Romina Llanos L.	Shifts in carbon accumulation in tropical andean peatlands due to climate change
	16:10	Bruno Turcq	Variabilité millénaire de deux lacs péruviens pendant le Mégalayen (Holocène Supérieur)
	16:30	Luciane Silva Moreira	An integrated approach to tracking paleohydrological changes along the Amazon Basin
	16:50	Jean-Sébastien Moquet	Seasonal variability of Sr and Nd isotopes in Amazon suspended matter as an analog for paleoclimate South America Monsoon System reconstruction
	17:10-18 :00		POSTER SESSION

Wednesday

<i>River-Ocean continuum</i>	09:00	Daniel Aslanian	Cinematic phases, their record on NE Brazilian margins and drainage areas
	09:20	Marina Rabineau	The AMANAUS cruise project 2020 : from Manaus to Macapa the need for new constraints to better define solid fluxes to the Atlantic Ocean
	09:40	Carlo Gualtieri	Analysis of timescales of mixing at the Negro/Solimões confluence
			COFFEE BREAK
<i>Water quality in the Amazon</i>	10:30	Laurence Maurice	Water quality in areas impacted by oil activities in the Ecuadorian Amazon: associated health risks and social perception of human exposure
	10:50	Silvana Carvalho Veloso	Géochimie des sédiments d'un estuaire amazonien: impacts environnementaux et sanitaires du port industriel de Belém (Brésil)
	11:10	Raul Yusta Garcia	Produced waters and oil extraction contamination in the Northern Peruvian Amazon
	11:30	Edson Da Silva Nascimento	Hydrochimie des lacs Bologna et Água Preta, sources de Belém, Pará
	11:50	Tereza Cristina Oliveira	Trace elements flow as a basal indicator in the Anavilhanas fluvial archipelago
	12:10	Marjorie Gallay	Suivi des pressions, sur la qualité de l'eau et la morphologie des cours d'eau de Guyane, liées aux activités d'orpaillage ?
	Wednesday PM		Title
<i>Spatial Hydrology</i>	14:00	Ahmad El Bitar	Monitoring and understanding the dynamics of inundations on the Amazonian Basin based on microwave RS data
	14:20	Laurent Polidori	Cartographie du relief et connaissance de l'hydrographie : défis et solutions en Amazonie
	14 :40	Jérémy Guilhen	Assessing the role of Amazonian alluvial wetlands in greenhouse gases emission patterns from denitrification processes using L-band remote sensing earth observations and modelling
	15:00	François Mercier	Rain measurements from opportunistic use of TV-satellite signals In Manaus
	15:20	Romulo Oliveira	Precipitation characteristics of TAPEER 2.0 and other GPM constellation products and link with the typology of rainfall systems over the Amazon Basin
			COFFEE BREAK
<i>Spatial Hydrology</i>	16 :00	Filipe Aires	Satellite observations for terrestrial hydrology: Application over Brazil
	16:10	Franck Mercier	Exhaustive determination of the water height measurement sites by satellite altimetry on 3 sub-parts of the Ucayali, Madeira and Tapajos basins, as part of the HYDROSIM project
	15:00	Adrien Paris	Using operational satellite altimetry for real-time monitoring of hydrological variables in tropical basins
	16:30	Jean-Michel Martinez	Synthèse des flux sédimentaires estimés par satellite dans le bassin de l'Amazone
	16:50	William Santini	Dynamique sédimentaire dans le bassin de l'Ucayali modélisé avec SWAT et apport de l'hydrologie spatiale

	17:10	Alice Andral	SWOT AVAL inland water resources monitoring from space : the SWOT downstream program
	17:30	Discussions	Which field observations are needed for the development of the spatial hydrology ?

Thursday

<i>Biogeochemistry of the carbon cycle</i>	09:00	Patricia Turcq	Sources, composition and age of Amazonian particulate organic matter
	09:20	Bruno Lartiges	Nature and reactivity of Dissolved Organic Matter from the Rio Negro
	09:40	Tereza Cristina Souza de Oliveira	Dissolved organic carbon correlation to trace elements present in the different environmental compartments in Negro River
	10:00	Clément Fabre	Daily riverine DOC fluxes from lands to oceans of the ORE-HYBAM rivers based on a generic model
	10:20	Discussions	How to monitor the carbon cycle in the Amazon River ?
			COFFEE BREAK
<i>Social sciences and health</i>	11:10	Silvia Becerra	Entre pétrole et terres agricoles, la vie des colons en Amazonie équatorienne
	11:30	Mehdi Saqalli	Territoires, ressources, risques et cultures : recenser la perception des habitants de l'Amazonie équatorienne par cartographie à dire d'acteurs.
	11:50	Mehdi Saqalli	Pluri Homo Potamos : Enjeux socio-économiques et environnementaux autour du fleuve Oyapock: Méthode de cartographie ZADA (Zonage A Dires d'Acteurs).
	12:10	Fernanda Fonseca	Impact de la variabilité hydrologique, climatique et environnementale dans l'incidence du paludisme dans l'état d'Amazonas, Brésil.
Thursday PM			Title
<i>Atmospheric, biological and weathering control of the geochemical fluxes in the Amazon River</i>	14:00	Francesco Ulloa	Origine et impact du contrôle climatique et biologique sur l'altération de carbonates dans les Andes péruviennes
	14:20	Roberto Ventura	Geochemical variations in large river confluence zone: the case of the Solimões and Negro rivers in Amazon
	14:40	Priscia Oliva	Impact of deforestation on soil isotopic signature
	15:00	Juan Luis Lechuga Crespo	Major ion fluxes in the Amazon watershed derived from a global model on chemical weathering rates
	15:20	Julien Bouchez	Controls on solute export from catchments: constraints from the Amazon River chemistry
			COFFEE BREAK
<i>Atmospheric, biological and weathering control of the geochemical fluxes in the Amazon River</i>	16:10	Damien Guinoiseau	Identification of African dust sources in the Amazon Basin
	16:30	Jean-Sébastien Moquet	Hydrological and geomorphological control of the riverine silicon isotope composition the Amazon basin
	16:50	Mathieu Dellinger	Tracing oxidative weathering in the Andes and Amazon Basin using dissolved rhenium
	17:10	Xu Yvon Zhang	Source to sink to source to sink" sediment transportation at the Earth's surface and its geochemical impact on detrital sediments: a case study of Amazon basin using Si isotopes.
	17:30	Discussions	Which new measurements for the understanding of geochemical processes in the Amazon River ?

Friday

<i>Hydro-climatic variability</i>	09:00	Josyane Ronchail	Low-water characteristics and evolution in the upper Madeira basin
	09:20	Waldo Lavado	Building hydroclimatological data in Peru to support public policies
	09:40	Jorge Molina	Hydroclimatic variability in the Upper Beni River basin
	10:00	Montesinos Cáceres Cristian	Evaluation of the impacts of climate change on the hydrological regime in an Andean Amazonian Peruvian basin

COFFEE BREAK

<i>Hydro-climatic variability</i>	10:50	Kevin Arnold Traverso Yucra	Multi-objective calibration of the hydrological model SWAT, applied in the Mantaro basin in Peru
	11:10	Jose Luis Lopez	The extraordinary flood of the Orinoco River in 2018
	11:30	Guy Moukandi	Variability of sedimentary and biogeochemical fluxes in the Congo River over the past 12 years
	11:50	Fiorela Vega	Spatio-temporal variability of droughts in Peru and associated risks related to ENSO
	12:10	Discussions	

COFFEE BREAK

	Friday PM		Title
<i>Technical meeting HYBAM network operation: which new observations for the future?</i>	14:00		Geochemical observations for the monitoring of weathering and erosion
	14:20		Geochemical observations for carbon and nutriment cycle
	14:40		Sedimentary fluxes
	15:00		Biology
	15:20		Hydrology
	15:40		Spatial hydrology
	16:00		Network operation
	18:00		Closure

Posters

Fabien Durand	AMAZEST: an initiative to observe and model the lower Amazon hydrodynamics
Daniel Moreira	Unbiasing altimetry measurements for long, denser, series in the Large Tropical Basins
Quentin Charbonnier	Barium stable isotopes as a fingerprint of biological uptake and release: The case of Amazon Basin
Alain Laraque	Variability Of Sedimentary And Biogeochemical Fluxes In The Congo River Over The Past 12 Year
Vanessa Dos Santos	Modelling Sediment Load Response To Agricultural Expansion In Amazonia: The Example Of Madeira Basin
Pankyes Datok	Investigating the role of wetlands in the hydrology of the congo river basin using the swat model
Jeremy Guilhen	A new water routing module for the SWAT model suited for large Amazonian rivers, with an automatic DEM-based procedure for the floodplain delineation
Columba Martínez-Espinosa	Natural denitrification in alluvial floodplains of the Amazon, Congo and Orinoco rives: a modelling approach
Guy Moukandi	Variability Of Sedimentary And Biogeochemical Fluxes In The Congo River Over The Past 12 Years
Mehdi Saqalli	Qualification et confrontation de données géographiques issues d'entretiens participatifs et issues d'inventaires ichtyologiques par ADN environnemental des territoires ripoles en Guyane française intérieure : une proposition de collaboration interdisciplinaire de diagnostic des aléas socio-environnementaux