

MARIA VICTORIA RAMOS BALLESTER

Biographical sketch

Education:

1986 - Federal University of Rio Grande do Sul, Brazil. Biology degree.

1989 - Federal University of São Carlos. Master degree in Ecology and Natural Resources

1994 - Federal University of São Carlos. PhD degree in Science. Major in Ecology.

1997 - University of Sao Paulo, Brazil. Pos-doctoral degree.

2005 - today . Associate Professor. Center of Nuclear Energy for Agriculture. University of São Paulo.
Brazil

1.1. Peer review Publications (last five years)

Tiessen, H., Ballester, M.V.R.; Salcedo, I. Phosphorus and Global Change Phosphorus in Action, Soil Biology, 1010079783642, Berlin, Alemanha, Springer-Verlag, 2010, p. 459 - 471

Richey, J.E; Krusche, A.V., Johnson, M. S., Brandao, H. de C., Ballester, M. V. R. The Role of Rivers in the Regional Carbon Balance In: Amazonia and Global Change ed.Geophysical Monograph Series, : Geophysical Monograph Series, 2009, v.186

Rasera, MF.F.L; Ballester, MV.R.; Krusche, A.V.; Salimon, C.; Montebelo, L.A.; Alin, S.R.; Victoria, R.L. & richey, J.E.Estimating the surface area of small rivers in the southwestern Amazon and their role in CO2 outgassing. Earth Interactions, 12: 1-20. 2008.

Victoria, DE C., Santiago, A.V.; Ballester M.V.R.; Pereira, A.R.; Victoria, R.L.; Richey, J.E. Water balance for the Ji-Parana River Basin, Western Amazon, using a simple method through geographical information systems and remote sensing. Earth Interactions 11(5): 1-22. 2007.

Niell, C.; Deegan, L.; Thomas, SU.; Hauper, C. L; Krusche, A. V.; Ballester, M. V. R.; Victoria, R. L.. Deforestation alters hydraulic and biogeochemical characteristics of small lowland Amazonian streams. Hydrological Processes, 20: 2563 - 2580. 2006.

Mayorga, E.; Logsdon, M.G.; Ballester, M.V.R.; Richey, J.E. "Estimating cell-to-cell land surface drainage paths from digital channel networks, with an application to the Amazon basin". Journal of Hydrology 315: 167-182. 2005.Citado 02 vezes (Web of Science)

Logsdon, M.G.; Weeks, R.; Smith, M.; Richey, J.E.; Ballester, M.V.R. & Yosio, S. Detection of

Mesoscale Seasonal and Inter-annual Variation In Vegetation of the amazon Basin. *Earth Interactions*, 9: 25.1-16. 2005.

Thomas, S M ; Neill, C ; Deegan, L A ; Krusche, A V ; Ballester, M V R ; Victoria, R. L. . Influences of land use and stream size on particulate and dissolved materials in a small amazonian stream network. *Biogeochemistry*, 68 (2): 135-151. 2004.

Bernardes, M C ; Martinelli, L A ; Krusche, A V ; Gudeman, J. ; Moreira, M Z ; Victoria, R. L. ; Ometto, J P H B ; Ballester, M V R ; Aufdenkampe, A K ; Richey, J E ; Hedges, J. I.. Riverine organic matter composition as a function of land use changes, Southwest Amazon. *Ecological applications*, 14 (4): S263-S279. 2004.

Ballester, M.V.R.; Victoria, D. DE C.; Coburn, R.; Krusche, A.V.; Victoria, R.L.; Richey, J.E.; Logsdon, M.G.; Mayorga, E. & Matricardi, E. "A Remote Sensing/GIS-based physical template to understand the biogeochemistry of the Ji-Paraná River Basin (Western Amazônia)". *Remote Sensing of the Environment*, 87 (4): 429-445. 2003.

Richey, J.E.; Melack, J.M.; Aufdenkampe, A.K.; Ballester, M.V. & Hess, L.L. "Outgassing from Amazonian rivers and wetlands as a large tropical source of atmospheric CO₂". *Nature*, 416: 617-620. 2002.

1.2. Patents or registered software - nothing to declare.

1.3. Numeric indicators of academic productivity :

- Pier review articles: 51
- Book chapters: 04
- Master Thesis: 08
- PhD Dissertations: 04

2.1. Ongoing grant list

- The role of the Amazonian fluvial systems in the regional and global carbon balance: CO₂ evasion and interactions among terrestrial and aquatic ecosystems. PI: Reynaldo Luiz Victoria (Coordinator). 2004 - 2008. US\$ 400,000.00, FAPESP 03/13172-2.
- Use of treated sewage by biological processes in agricultural soils. PI: José Adolpho Melfi

(Coordinator); CO-PIs: Reynaldo Luiz Victoria; Célia Montes; Alex Vladimir Krusche; Maria Victoria Ramos Ballester. FAPESP, 2004/14315-4. U\$ 890,000.002006 - 2010.

- Landuse change, biofuels and rural development in the La Plata Basin. Activity I: Land cover and landuse change. Co-PI: Maria Victoria Ramos Ballester. U\$ 46.800.00. 2008-2010. IAI-IDRC.
- Millennium Institutes Program: Sub-project: The role of the Amazonian fluvial systems in the regional and global carbon balance: CO2 evasion and interactions among terrestrial and aquatic ecosystems. National Council of Science and Technology Development (CNPq). Porject PI: Paulo Artaxo Neto. Sub-project PIs: Reynaldo Luiz Victoria; Alex Vladimir Krusche; Maria Victoria Ramos Ballester. 2005 - 2008. U\$ 330,000.00.

2.2. Advising comities

- Henrique Oliveira Sawakuchi. Land use and land cover change in the Bananl island (Tocantins, Brazil) FAPESP, 07/01686-2. Master Thesis . 2007. Scholarship Fapesp.
- Daniel de Castro Victoria. “Modelagem da hidrologia e do transporte fluvial de elementos na bacia Amazônica usando o modelo de Capacidade de Infiltração Variável” . Programa de Pós-graduação do Centro de Energia Nuclear na Agricultura. Universidade de São Paulo. PhD Dissertation, 2005. Scholarship CAPES.
- Lucy da Silva Xavier. “A reorganização territorial do uso e ocupação das propriedades rurais com a chegada do turismo, no vale do rio Formoso (Bonito-MS). Programa de Pós-graduação Interunidades em Ecologia de Aplicada. Escola Superior de Agricultura “Luiz de Queiroz”, Universidade de São Paulo. Piracicaba, São Paulo. PhD Dissertation, 2008.

3. Ancillary information