

CURRICULUM VITAE

CAROLINE C. ARANTES

Personal Information

Nationality: Brazilian

Professional address: Department of Wildlife and Fisheries Sciences, Texas A&M University, 2258 TAMU
College Station, TX 77843

Contact information: +1 979 7211952 (cell phone)

E-mails: caroline.arantes@tamu.edu; carolinearan@yahoo.com.br

EDUCATION

PhD in progress, Texas A&M University, Wildlife and Fisheries Sciences, College Station, USA.

Master of Science in Zoology, Universidade Estadual de Santa Cruz, Ilhéus, Bahia, Brazil. Period: 2007-2009.
Thesis title: *Arapaima arapaima gigas* (Schinz, 1822) ecology in the floodplain of the Mamirauá Sustainable Development Reserve, Amazonas, Brazil.

Bachelor in Oceanography, Universidade Estadual do Rio de Janeiro, Rio de Janeiro, Brazil. Period: 1999-2003.
Thesis title: Opening of the São Bento Channel, Maricá Lagoon complex, RJ: Evaluation of the impact on the ichthyofauna.

Languages: Portuguese; English

RESEARCH EXPERIENCE (most relevant)

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| 2011 | Presently developing a research program that aims to understand and model how deforestation is impacting Amazon floodplain fish populations and fisheries productivity. |
| 2009 - 2011 | Presently developing a multidisciplinary assessment of the arapaima populations, their fishery, and governance institutions near Santarem, Brazil (Arantes et al. in prep; Castello et al 2014, Cavole et al. 2015). |
| 2008 - 2010 | Investigated the environmental factors affecting the spatial distribution and abundance of arapaima in floodplains of the Amazon (Arantes et al. 2011). |
| 2005 - 2009 | Developed studies assessing possible density-compensatory effects on body growth and size at first reproduction of arapaima at markedly different population densities (Arantes et al. 2010). |
| 2005 - 2009 | Developed an empirical population dynamics model of arapaima populations (Castello et al. 2011). |
| 2006 - 2007 | Evaluated the accuracy and precision of population censuses of arapaima done by fishermen based on their own traditional knowledge (Arantes et al. 2007). |
| 2006 | Evaluated region-wide historical trends in arapaima populations (Arantes et al. 2006) |
| 2003 - 2004 | Evaluated the impacts of the shrimp fishing fleet on fish communities in the Guanabara Bay, Rio de Janeiro. |
| 2001 - 2003 | Biology and ecology of estuarine fish communities. Developed studies on feeding, reproduction, and influences of water physico-chemical variables on fishes and their community structure. |

2000 - 2001 Evaluated the use of mangroves as indicators of variations in mean sea level, and analyzed the zonation and succession of plant species in coastal areas.

EMPLOYEMENT

Now PhD student - Texas A&M University, Department of Wildlife and Fisheries Science.

June 2009 - 2012 Instituto de Pesquisa Ambiental da Amazônia/Projeto Várzea (IPAM/Projeto Várzea), Santarém, Pará, Brazil.
Fisheries Scientist

2004 - 2009 Fisheries Management Program. Mamirauá Institute for Sustainable Development (IDSM), Tefé, Amazonas, Brazil.
Fisheries Scientist

2003 - 2004 Laboratory of Fisheries Resources. Department of Marine Biology. Universidade Federal do Rio de Janeiro (UFRJ), RJ, Brazil.
Research Assistant

2002 - 2003 Fish Ecology Laboratory. Department of Animal and Plant Biology Universidade do Estado do Rio de Janeiro (UERJ), RJ, Brazil.
Research Assistant

2000 - 2001 Center for Research on Mangroves. Center for Technology and Science, Department of Oceanography and Hydrology Universidade do Estado do Rio de Janeiro (UERJ), RJ, Brazil.
Research Assistant

PUBLICATIONS

Peer-Reviewed Journal articles

Cavole, L, **Arantes CC**, Castello L. 2015. How illegal are tropical small-scale fisheries? An estimate for arapaima In the Amazon. *Fisheries research*. 168: 1–5.

Castello, L., **Arantes C.C.**, D.G. McGrath, D.J. Stewart, F.S. Sousa. 2014. Understanding fishing-induced extinctions in the Amazon. *Aquatic Conservation: Marine and Freshwater Ecosystems*. DOI: 10.1002/aqc.2491.

Arantes CC, Castello L, Cetra M, Shilling A. 2013. Environmental factors and distribution of arapaima in floodplains of the Amazon. *Environmental Biology of Fishes*. 96: 1257-1267

Castello L, McGrath DG, **Arantes CC**, Almeida O .2013. Accounting for heterogeneity in small-scale fisheries management: The Amazon case. *Marine policy* 38: 557–565.

Castello L, McGrath DG, Coe MT, Hess LL, Petry P, Reno V, **Arantes CC**.2013. The vulnerability of Amazon wetlands. *Conservation Letters*. 0: 1–13.

Castello L, Stewart DJ, **Arantes CC**. 2011. Modeling population dynamics and conservation of Arapaima in the Amazon. *Reviews of Fish Biology and Fisheries* 21: 623-640.

Arantes CC, Castello L, Stewart DJ, Cetra M, Queiroz HL. 2010. Effects of population density on growth and reproduction of arapaima in an Amazonian river-floodplain. *Ecology of Freshwater Fish* 19(3): 455-465.

Arantes CC, Castello L, Serqueira DG. 2007. Variations between counts of *Arapaima gigas* (Schinz, 1822) (Osteoglossomorpha, Osteoglossidae) made by individual fishermen in Mamirauá, Brazil. (in Portuguese). *Pan-American Journal of Aquatic Sciences* 2: 263-269.

Hercos A, **Arantes CC**, Amaral MX. 2007. Fish collection of the Institute for Sustainable Development Mamirauá.

(original title in Portuguese). *Uakari* 3: 37-48.

Arantes CC, Garcez DS, Castello L. 2006. Densities of the arapaima (*Arapaima gigas*), Teleostei, Osteoglossidae) in lakes of Sustainable Development Reserves Mamirauá and Amanã, Amazonas, Brazil (in Portuguese). *Uakari* 2: 37-43.

Manuscripts in Preparation

Arantes CC, Castello L, Sene-Harper A, Angeli N, McGrath D. In prep. Measuring the development of community-based management in in the Amazon.

Book chapters

Arantes CC, Castello L. 2014. Implicações da biologia, ecologia e contagens para o manejo do pirarucu. p. 33-42 In: Amaral E. (Org). Biologia, conservação e manejo participativo de pirarucus na Pan- Amazônia. Tefé: IDSM, 2013. 278 p.

Castello L, **Arantes CC**, Sarmiento F, McGrath DG. 2014. Recuperando a pesca do pirarucu no baixo Amazonas, Brasil. p. 207-211. In: Amaral E. (Org). Biologia, conservação e manejo participativo de pirarucus na Pan- Amazônia. Tefé: IDSM, 2013. 278 p.

Castello, L, Stewart D, **Arantes CC**. 2014. O que sabemos e precisamos fazer a respeito da conservação do pirarucu (*Arapaima* spp.) na Amazônia. p. 17-31. In: Amaral E. (Org). Biologia, conservação e manejo participativo de pirarucus na Pan- Amazônia. Organizado por Ellen Amaral. Tefé: IDSM, 2013. 278 p.

Da Silveira, R.; **Arantes, C.C.**; Castello, L. 2012. Conservação de pirarucus e de crocodilianos no Amazonas: avaliação crítica do histórico de exploração e diretrizes para o manejo econômico na Amazônia brasileira, p. 343-361. In: Marcon, J.L.; Menin, M.; Araújo, M.G.P.; Hrbek, T. (Orgs). Biodiversidade Amazônica: caracterização, ecologia e conservação. Edua, Manaus. ISBN: 978-85-7401-687-0

Vianna JP, Castello L, Damasceno JMB, Amaral ESR, Estupiñán GMB, **Arantes CC**, Batista GS, Garcez D, Barbosa S. 2007. Community-Based Management of Arapaima in the Mamirauá Sustainable Development Reserve – Amazonas, Brazil. In: Aquatic Protected Areas as Fisheries Management Tools. 1 ed. Brasília: Ministério do Meio Ambiente, v.4, p. 245-267.

Amaral ESR, **Arantes CC**. 2008. Arowana fisheries (*Osteoglossum bicirrhosum*) in the region of Tefé, Middle Solimões (original title in Portuguese). In: Biology, conservation and management of Aruanãs in the Brazilian Amazon. H. Queiroz and M. Camargo (Eds), IDSM, Tefé, Brazil.

Amaral ESR, Peralta N, **Arantes CC**, Gonçalves AC, Sousa I. In Press. Main actions and lessons learned from Participatory Management of Arapaima in Mamirauá (original title in Portuguese). In: Community based management and governance of the fisheries in the Amazon Basin, Iquitos, Perú.

Abstracts in Conference Proceedings

Arantes CC, Castello L, Sene-Harper A, Angeli N, McGrath D. 2015. Measuring the development of community-based management in in the Amazon. Global Inland Fisheries Conference. FAO. Rome, Italy.

Batista P, **Arantes CC**. 2015. Influence of dry season intensity on fish communities and fisheries in the Amazon (original title in Portuguese). Brazilian Ichthyology meeting. XXI EBI, Recife, Brazil

Arantes CC, Winemiller, K.O., Petrere, M., Castello, L., Freitas, C.E. 2014. Influence of deforestation on fisheries in the Amazon floodplains. JMIH Proceedings. Chattanooga, Tennessee.

Arantes CC, Castello L, Sene-Harper A, Angeli N, McGrath D. 2014. Measuring the development of community-based conservation in small-scale fisheries in the Amazon. 2-WSFC Proceedings, Merida, Mexico.

Arantes CC. 2013. Environmental influences on the distribution of arapaima in Amazon floodplains. 2013 TCAFS Proceedings, Houston, TX.

Sene-Harper A, **Arantes CC**, Angeli N. Measuring the collective action in managing small-scale fisheries in the Lower Amazon Basin of Brazil, Ecological Integration Symposium 2013, College Station, TX.

- Arantes CC**, Amaral ESR. 2009. Aspects of fisheries, biology and population dynamics of the Arapaima (*Arapaima gigas*) before and after management of the species. (original title in Portuguese). In: V Annual Research Seminar, Tefé-AM.
- Castello L, Stewart D, **Arantes CC**, 2008. Population dynamics and conservation of *Arapaima* in floodplains of the Central Amazon. Paper presented at the annual meeting of the International Congress for Conservation Biology, Convention Center, Chattanooga, TN.
- Santos G, **Arantes CC**, Amaral ESR. 2007. Diagnosis of the fisheries in New Jerusalem community, Amanã Sustainable Development Reserve, and implications for management (original title in Portuguese). In: IV Symposium of Internal Monitoring, Tefé-AM.
- Arantes CC**, Castello L, Stewart DJ, Cetra M. 2007. Effects of increases in population densities on growth and reproduction of arapaima *Arapaima gigas* (original title in Portuguese). In: IV Internal Symposium of Monitoring, Tefé-AM.
- Amaral ESR, **Arantes CC**. 2007. Landing of arowanas (*Osteoglossum bicirrhosum*) in the ports of state of Amazonas, with emphasis on Tefé region (original title in Portuguese). In: Conference of Biology, Conservation and Management of arowana, *Osteoglossum bicirrhosum* Belém-PA.
- Arantes CC**, Amaral ESR, Barbosa S. 2007. Expansion of fisheries in Maraã: Implication for management of arapaima (*Arapaima gigas*) (original title in Portuguese). In: IV Annual Research Seminar, Tefé-AM.
- Arantes CC**, Amaral ESR. 2007. Community management of Arapaima (*Arapaima gigas*): the experience of Mamirauá (original title in Portuguese). In: XV Brazilian Congress of Fishing Engineering, Manaus-AM.
- Arantes CC**, Amaral ESR. 2007. Arowana fisheries (*Osteoglossum bicirrhosum*) in the region of Tefé, Middle Solimões (original title in Portuguese). In: XV Brazilian Congress of Fishing Engineering, Manaus-AM.
- Stewart DJ, Watson LC, **Arantes CC**, Castello L. 2007. Surprising Diversity in Arapaima, Endangered Giant Fishes from South America. In: Annual Meeting of the American Society of Ichthyologists and Herpetologists, St. Louis, Missouri.
- Amaral ESR, **Arantes CC**. 2007. Arapaima managed fishery in 2006 (original title in Portuguese). In: Symposium of Internal Monitoring, Tefé-AM.
- Arantes CC**, Castello L, Garcez D. 2006. Assessment of the arapaima counts in Mamirauá Reserve, Amazonas, Brazil (original title in Portuguese). In: VII International Congress on Management of Wildlife in the Amazon and Latin America, Ilhéus-BA.
- Arantes CC**, Garcez D. 2006. Arapaima (*Arapaima gigas*) densities in areas of management in Mamirauá and Amanã Reserves, Amazonas, Brazil (original title in Portuguese). In: Symposium of Internal Monitoring, Tefé-AM.
- Arantes CC**. 2006. Densities and fishing of the arapaima (*Arapaima gigas*) in environments of the Jarauá Sector, Sustainable Development Reserve Mamirauá (original title in Portuguese). In: III Annual Research Seminar, Tefé-AM.
- Arantes CC**, Castello L, Stewart DJ. 2006. Does the arapaima's growth suffer effect of population density? A preliminary analysis (original title in Portuguese). In: III Annual Research Seminar, Tefé-AM
- Arantes CC**, Garcez D. 2006. Population trends of the arapaima (*Arapaima gigas*) in the Sustainable Development Reserves Mamirauá and Amanã, Amazonas, Brazil (original title in Portuguese). In: VII International Congress on Management of Wildlife in the Amazon and Latin America, Ilhéus-BA.
- Vianna M, Matos F, Keunecke K, Lazarotto H, Kassuga A, **Arantes CC**. 2005. Characterization of shrimp fishing by trawl in the Bay of Guanabara, Rio de Janeiro: preliminary results and suggestions for management (original title in Portuguese). In: Brazilian Congress of Environmental Defense, Rio de Janeiro. Anais VII Brazilian Congress of Environmental Defense.

- Arantes CC**, Vianna M, Keunecke K, Matos F, Lazarotto H, Kassuga A. 2004. Quali- Quantitative analysis of Shrimp's Fleet that operates with Trawl in Guanabara Bay, Rio de Janeiro. (original title in Portuguese). In: I Brazilian Congress of Oceanography, XIV Brazilian Week of Oceanography, Itajaí-SC.
- Valetim, MFM, **Arantes CC**, Vianna M, Caramashi E. 2004. Characteristics of reproduction, feeding and fishery of the monkfish, *Lophius gastrophysus* (Teleostei, Lophiidae) in the State of Rio de Janeiro (original title in Portuguese). In: I Brazilian Congress of Oceanography, Itajaí-SC.
- Vianna M, Keunecke K, Matos F, **Arantes CC**, Lazarotto H, Kassuga A. 2004. The Estuarian Shrimp Fishing: The Case of Guanabara Bay, RJ, Brazil). In: 3^o Brazilian Crustacean Congress and 2004 TCS Summer Meeting, Florianópolis-SC.
- Correia F, Chaves F, Silva JrC, Soarea M, Azevedo A, **Arantes CC**, Barbosa B, Gomes N, Mizutori I, Pellegrini J, Estrada G. 2003. Biometrics of leaf of mangrove species in Guanabara Bay. (Rio de Janeiro) (original title in Portuguese). In: 53rd National Congress of Botany, 25th Meeting of Northeastern Botany.
- Arantes CC**, Chaves F, Soares M, Silva JrC, Correia F, Viviane F, Pellegrini J, Gomes N, Barbosa B, Beatriz, Mizutori I. 2003. Litter production in mangrove areas in Guanabara Bay, Rio de Janeiro, Brazil (original title in Portuguese). In: Mangroove Conference.
- Serrano L, Sergipense S, **Arantes CC**, Gay D, Kemper F, Defante. 2003. Dredging of St. Benedict Channel: Assessment of the impact on Ichthyofauna (original title in Portuguese). In: XV Brazilian Meeting of Ichthyology. Sao Paulo-SP
- Arantes CC**. 2002. Artificial opening of St. Benedict Channel: Monitoring the ichthyofauna (original title in Portuguese). In: Week 11 of Scientific Initiation Rio de Janeiro-RJ.
- Kemper F, **Arantes CC**, Defante V. 2002. Diet and feeding rhythm of the dominant fish species in the Channel of St. Benedict (Lagoon Complex of Marica - RJ) (original title in Portuguese). In: Week 11 of Scientific Initiation Rio de Janeiro-RJ.
- Arantes CC**. 2001. Evaluation of the use of mangroves as indicators of variations in mean sea level: analysis of zonation and succession of plant species (original title in Portuguese). In: Week 10 of Scientific Initiation Rio de Janeiro-RJ.

PRESENTATIONS AT SCIENTIFIC MEETINGS

- Arantes CC**, Winemiller KO. 2015. Influence of deforestation on fish diversity and biomass in the Amazon River. Ecological Society of America, Baltimore, United States.
- Arantes CC**, Castello L, Sene-Harper A, Angeli N, McGrath D. 2015. Measuring the development of community-based management in in the Amazon. Rome, Italy.
- Arantes CC**, Winemiller, K.O., Petrere, M., Castello, L., Freitas, C.E. 2014. Influence of deforestation on fisheries in the Amazon floodplains. JMIH Proceedings. Chattanooga, Tennessee, United States.
- Arantes CC**. 2013. Environmental influences on the distribution of arapaima in Amazon floodplains. Presentation in the 2013 TCAFS Proceedings, Houston, Texas, United States.
- Arantes CC**. 2012. A ecologia e o manejo adaptativo das populações de pirarucu (Arapaima ecology and management). Pirarucu conservation International Seminar. August 2012. Manaus, Brazil.
- Arantes CC**, Leandro Castello, Fábio Sarmiento, David McGrath. 2012. Implementando o manejo do pirarucu no Baixo Amazonas (Arapaima management in the Lower Amazon). Pirarucu conservation International Seminar. August 2012. Manaus, Brazil.
- Arantes CC**, Castello L, Cetra M, Shilling A. 2011. Environmental factors and distribution of arapaima in floodplains of

the Amazon. In: XIX Brazilian Ichthyology Meeting Manaus, Brazil.

Amaral ESR, **Arantes CC**. 2007. Arapaima managed fishery in 2006 (original title in Portuguese). In: Symposium of Internal Monitoring, Tefé-AM, Brazil.

Arantes CC, Castello L, Stewart DJ, Cetra M. 2007. Effects of increases in population densities on growth and reproduction of arapaima *Arapaima gigas* (original title in Portuguese). In: IV Internal of Symposium Monitoring, Tefé-AM, Brazil.

Arantes CC, Amaral ESR, Barbosa S. 2007. Expansion of fisheries in Maraã: Implication for management of arapaima (*Arapaima gigas*) (original title in Portuguese). In: IV Annual Research Seminar, Tefé-AM, Brazil.

Arantes CC, Amaral ESR. 2007. Community management of Arapaima (*Arapaima gigas*): the experience of Mamirauá (original title in Portuguese). In: XV Brazilian Congress of Fishing Engineering, Manaus-AM, Brazil.

Arantes CC, Amaral ESR. 2007. Arowana fisheries (*Osteoglossum bicirrhosum*) in the region of Tefé, Middle Solimões (original title in Portuguese). In: XV Brazilian Congress of Fishing Engineering, Manaus-AM, Brazil.

Arantes CC, Castello L, Garcez D. 2006. Assessment of the arapaima counts in Mamirauá Reserve, Amazonas, Brazil (original title in Portuguese). In: VII International Congress on Management of Wildlife in the Amazon and Latin America, Ilhéus – BA, Brazil.

Arantes CC, Garcez D. 2006. Arapaima (*Arapaima gigas*) densities in areas of management in Mamirauá and Amanã Reserves, Amazonas, Brazil (original title in Portuguese). In: Symposium of Internal Monitoring, Tefé-AM, Brazil.

Arantes CC, Castello L, Stewart DJ. 2006. Does the arapaima's growth suffer effect of population density? A preliminary analysis (original title in Portuguese). In: III Annual Research Seminar, Tefé-AM, Brazil.

Arantes CC. 2002. Artificial opening of St. Benedict Channel: Monitoring Ichthyofauna (original title in Portuguese). In: Week 11th of Scientific Initiation Rio de Janeiro-RJ, Brazil.

Arantes CC. 2001. Evaluation of the use of mangroves as indicators of variations in mean sea level: analysis of zonation and succession of plant species (original title in Portuguese). In: Week 10 of Scientific Initiation Rio de Janeiro-RJ, Brazil.

AWARDS, HONORS, & SCHOLARSHIPS

2015	College of Agriculture and Life Sciences Dean's Outstanding Achievement Award for Graduate Research.
2015	Wildlife and Fisheries Sciences Department Outstanding Achievement Award for Graduate student.
2013	Co-Pi Research Project: Arapaima management in the Lower Amazon. Funded by the Mamirauá Sustainable Development Institute. PI: Leandro Castello (US\$150,000).
2013	Amazon Field Course scholarship, Applied Biodiversity Sciences (NSF-IGERT) (~ US\$ 3,000).
2012	PI in Research Project: Influence of deforestation on fisheries in the Amazon floodplains. Funded by the Mamirauá Sustainable Development Institute (US\$30,000).
2013 - 2014	Graduate Research Fellowship, Applied Biodiversity Sciences (NSF-IGERT) (~ US\$ 60,000).
2011	Co-Pi in Research Project: Impacts of environmental changes on communities in the Amazon Basin: Complex interactions and effects in different scales. Issued by Conselho Nacional de Pesquisa e Desenvolvimento (CNPq). PI: Miguel Petrere (~ US\$ 133.000,00).

- 2010 Co-PI in Research Project: Bio-Ecology, Fisheries, and Management Plans of the Arapaima (*Arapaima gigas*) in the Lower Amazon, Pará. Issued by Conselho Nacional de Pesquisa e Desenvolvimento (CNPq). PI: David G. McGrath (~ US\$ 90,000).
- 2007 Best presentation award of the XV Brazilian Congress of Fishing Engineering, Manaus-AM, thematic: fishery resources.
- 2008 – 2009 Graduate Research Fellowship, Instituto Internacional de Educação do Brasil (IIEB – Brazil). (~ US\$ 22,000).
- 2005 – 2007 Research Scholarship, Brazilian Council of Research - Conselho Nacional de Pesquisa e Desenvolvimento (CNPq). (~ US\$ 2,500).
- 2005 - 2007 Co-PI in Research Project: Population biology, management, and conservation of the giant pirarucu (*Arapaima gigas*) in the Brazilian Amazon. Funded by the National Geographic Society. PI: D.J. Stewart. (US\$25,000)
- 2005 - 2006 O manejo sustentável e a dinâmica populacional do pirarucu (*Arapaima gigas*) na Reserva Mamirauá, Amazonas, Brasil. Funded by the Mamirauá Sustainable Development Institute. (US\$3,000).
- 2002 – 2003 Undergraduate scholarship, Brazilian Council of Research - Conselho Nacional de Pesquisa e Desenvolvimento (CNPq). (~ US\$ 2,500).
- 2001 – 2002 Undergraduate scholarship, Brazilian Council of Research - Conselho Nacional de Pesquisa e Desenvolvimento (CNPq). (~ US\$ 2,500).
- 2000 – 2001 Undergraduate scholarship, Brazilian Council of Research - Conselho Nacional de Pesquisa e Desenvolvimento (CNPq). (~ US\$ 2,500).
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TEACHING EXPERIENCE

- 2013 Advised Poliane Batista on an undergraduate research project – Universidade Federal do Oeste do Para, Brazil.
- 2012 Developed and conducted the course: Community-Based Sustainable Management of Fisheries Resources, to ~20 professionals who work in fisheries management in the Amazon. Mamirauá Institute, Tefé-AM.
- 2009 – 2011 Developed and conducted training courses for more than 50 fishing communities, ~ 300 people in the Lower Amazon region.
- 2008 Developed and conducted the course: Community-Based Sustainable Management of Fisheries Resources, to ~30 professionals who work in fisheries management in the Amazon. Mamirauá Institute, Tefé-AM.
- 2005 – 2007 Developed and conducted training courses for 15 fishing communities on the Mamirauá and Amanã Reserves, Middle Amazon.
- 2006 Advised Michele Xavier do Amaral on an undergraduate research project – Scientific Fellowship, Brazilian Council of Research - Conselho Nacional de Pesquisa e Desenvolvimento (CNPq).
- 2004 Monitored the undergraduate Zoology course at Department of Marine Biology, Universidade Federal do Rio de Janeiro, RJ.
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OUTREACH EXPERIENCE

Arantes CC, Castello L, McGrath D. 2010. Developed website text for:

<http://www.ipam.org.br/programas/projeto/Manejo-Participativo-do-Pirarucu-no-Baixo-Amazonas/64>

Video: <http://www.youtube.com/watch?v=4T7HBldgJM>.

Developed ecosystem management participative plans that involved 99 communities and 15 Settlement Projects, in the Lower Amazon. McGrath D, Almeida O, Menezes D, Cardoso A, Barboza R, **Arantes CC**, Pinto Sá, Castello L, Pimentel E, Pinto L, Sarmento F, Rocha Sá. 2010. Basic Plan of Development of the Agroextractive Settlement Project Atumã. (original title in Portuguese).

Developed rules of natural resource use and access with 99 communities and 15 Settlements. McGrath D, Almeida O, Menezes D, Cardoso A, Barboza R, **Arantes CC**, Pinto Sá, Castello L, Pimentel E, Pinto L, Sarmento F, Rocha Sá. Utilization Plan of the Agroextractive Settlement Project Atuma, 2010. (original title in Portuguese).

Note: The Basic Plan and the Utilization Plan were made for 15 Agroextractive Settlement Projects in the lower Amazon, these being: Atumã, Salvação, Aritapera, Taparã, Uricurituba, Ituqui, Três Ilhas, Costa Fronteira, Paraná de Baixo, Cacoal Grande, Paru, Maria Tereza, Ilhas Reunidas, Nossa Senhora do Perpetuo Socorro, Madalena.

Hercos A, **Arantes CC**, Amaral ESR, Fresou F, Sousa I, Queiroz H, Lopes K, Castello L, Barbosa S. 2008. Course on Community-Based Sustainable Management of Fisheries Resources (original title in Portuguese). IDSM. Tefé/AM

Garcez DS, **Arantes CC**. 2006. Certification of arapaima counters of the RDS Mamirauá and Amanã. The Macaqueiro (original title in Portuguese). Journal for local circulation, Tefé/AM.

Arantes CC. 2006. Monitoring course of *Arapaima* (original title in Portuguese). IDSM. Tefé/AM.

COMMUNITY SERVICE

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| 2005 - 2012 | Worked in cooperation with Amazon local populations and institutions to implement community-based fisheries management systems for arapaima. |
| 2005 - 2011 | Conducted many meetings with local communities that included more than 500 people. |
| 2005 - 2007 | Presented on environmental education themes at 5 local schools, included more than ~60 students, in the Tefé City, Middle Amazon region. Organized local events to promote the integration of urban people (Tefé City, Middle Amazon region) on floodplain conservation schemes. Examples are: National Week of the Environmental and Ecologic Games. |