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EDUCATION
2015.7 – 2016.2 – Visiting Scholar at School the Environment of the University of Massachusetts at Boston
– Optical Oceanography Lab
2005   PhD – Remote Sensing, National Institute for Space Research – INPE, Brazil
1997   M.S. – Remote Sensing, National Institute for Space Research –INPE, Brazil
1980   B.S. – Electrical Engineering, Faculdade de Engenharia de S. José Campos, Brazil

EMPLOYMENT HISTORY
2000.10-present – Researcher of Earth Observation Coordination – INPE- Brazil
1999.9-2000.9   – Visitor researcher at University of California, Santa Barbara, USA
1981-1999.8   – Engineer of Division of Digital Image Processing. – INPE, Brazil

RESEARCH INTEREST
Radiative transfer in inland waters, Remote sensing applied on inland aquatic systems.

CURRENTS PROJECTS IN RELATION WITH BONDS
Bio-optical spatio-temporal characterization and development of analytical algorithms for the systematic
monitoring of water masses circulating on the floodplain of medium Amazon;
Environmental Monitoring by Satellite in the Amazon Biome;

OTHER ACTIVITY
Faculty at Remote Sensing Graduate Program – INPE
Coordinator of the Aquatic System Research Instrumentation Laboratory – INPE
(http://www.dpi.inpe.br/labisa/)

PUBLICATIONS RELATED TO BONDS
2017 Martins, V.; **Barbosa, C.C.F**; De Carvalho, L.A.S; Jorge, D.; Lobo, F.; Novo, E. Assessment of
Atmospheric Correction Methods for Sentinel-2 MSI Images Applied to Amazon Floodplain Lakes. Remote
Sensing, v. 9, p. 322.
2017 Martins, V.; Lyapustin, A.; De Carvalho, L.A.S; **Barbosa, C.C.F**; Novo, E. E.M. L.M. Validation of
high-resolution MAIAC aerosol product over South America. Journal of Geophysical Research-
Atmospheres
2017 Spyrakos, E.; O'donnell, R.; Hunter, P.D.; Miller, C.; Scott, M.; Simis, S.N.G.H. ; Neil, Claire ;
Barbosa, C.C.F.; Binding, C.E.; Bradt, S.; Bresciani, M.; Dall'olmo, G.; GIARDINO, C.; Gitelson, A.A.;
Kutser, T.; Li, L.; Matsushita, B.; Martinez-Vicente, V.; Matthews, M.W.; Ogashawara, I.; Ruiz-Verdú, A.;
Schalles, J.F.; Tebbs, Emma; Zhang, Y.; Tyler, A.N. Optical types of inland and coastal waters. Limnology
and Oceanography, v. 62, p. 1-25.
2017 Jorge, D. S. F.; **Barbosa, C.C.F**.; Sander de Carvalho, L..; Affonso, A. G.; Lobo, F.L.; Novo, E.M.L.
Potential of orbital sensors for water color observation in threshold conditions: Case study in Amazonian
optically complex lakes. Remote sensing (Water Optics and Water Colour Remote Sensing). Remote
Sensing, v. 9, p. 644,
2016 Kutser, T.; Casal, P. G.; **Barbosa, C.C.F.**; Paavel, B.; Ferreira, R.; CARVALHO, L.; TOMING, K.
Mapping inland water carbon content with Landsat 8 data. International Journal of Remote Sensing
(Online), v. 37, p. 2950-2961.
2015 **Barbosa, C.C.F**.; Novo, E.; Ferreira, R.; Sander de Carvalho, L. A. Cairo, C.; Lopes, F.; Stech, J.;
Alcantara, E. Brazilian inland water bio-optical dataset to support carbon budget studies in reservoirs as
well as anthropogenic impacts in Amazon floodplain lakes: Preliminary results. ISPRS - International
Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, v. XL-7/W3, p. 1439-
1446.
2014 Montanher, O.C.; Novo, E.M.M.; **Barbosa, C.C.F**; Rennó, C.; Silva T.F.S. Empirical models for
estimating the suspended sediment concentration in Amazonian white water rivers using Landsat 5/TM.
ITC Journal, v. 29, p. 67-77.
2015 Sander de Carvalho, L.A.; **Barbosa, C.C.F**.; Novo, E.M.L.M.; Rudorff. C. Implications of scatter
corrections for absorption measurements on optical closure of Amazon floodplain lakes using the Spectral
Absorption and Attenuation Meter (ACS-WETLabs). Remote Sensing of Environment, v. 157, p. 123137.