Appendix D LBA–Ecology Participant List

The purpose of this "Official Initial LBA-Ecology Project Participant List" is to provide the LBA Office with a list of people that will probably be applying for Visas to accomplish their proposed work for LBA-Ecology. This table can be pulled out as a separate document that lists names, affiliations and whether or not they are U.S. citizens. It is organized by science team groups followed by Project Office personnel. For more detailed information on an individual please see Appendix B, LBA Affiliates Contact Information. The Project Office contact list is Appendix C.

Bilsborrow, Richard E. and **Stephen J. Walsh**, University of North Carolina, Chapel Hill, USA.
Danilo Silva, Ecociencia, Ecuador; Lawrence E. Band, Aaron Moody, & Laura Murphy, University of North Carolina, Chapel Hill, USA.
Agricultural Colonization on the Ecuadorian Amazon: Population, Biophysical, and Geographical Factors Affecting Land Use/Land Cover Change and Landscape Structure.

Brown, Irving F., Woods Hole Research Center, USA.
Alberto Setzer, Hiromi Sassagawa, & Yosio Shimabokuro, Instituto Nacional de Pesquisas Espaciais, Brazil; Eufran do Amaral, William Flores de Melou, Empresa Brasileira de Pesquisa Agropecuária, Brazil; Paulo Artaxo, Universidade de São Paulo, Brazil; Silvia Brilhante, Cleber Salimon, & Elsa Mendoza, Universidade Federal do Acre, Brazil; Carlos Klink & Marcos Silveira, Universidade de Brasília, Brazil; Henrique Santa Ana, Fundação de Tecnologia do Estado do Acre, Brazil; Thomas Stone, Woods Hole Research Center, USA.
Land-Cover/Land-Use Change and Carbon Dynamics in an Expanding Frontier in Western Amazonia: Acre, Brazil.

Chadwick, Oliver A. and **Dar A. Roberts**, University of California, USA.
Getulio T. Batista, Instituto Nacional de Pesquisas Espaciais, Brazil; Paul E. Gessler, University of California, USA; Karen Holmes.
Land Cover Conversion in Amazonia, the Role of Environment and Substrate Composition in Modifying Soil Nutrient Cycling and Forest Regeneration.

Chatfield, Robert B., National Aeronautics and Space Administration/Ames Research Center, USA.
Paulo Artaxo, Maria Assunção Faus Silva Dias, Saulo Ribeiro de Freitas, & Karla Maria Longo, Universidade de São Paulo, Brazil; Anne M. Thompson, National Aeronautics and Space Administration/Goddard Space Flight Center, USA.
Cooperative Regional Transport Modeling of C and N for Amazonia.

Davidson, Eric A., Woods Hole Research Center, USA.
Paulo Roberto de Souza Moutinho, Instituto de Pesquisa Ambiental da Amazônia, Brazil; Elizabeth Belk, Thomas A. Stone, Woods Hole Research Center, USA; Claudio de Carvalho, Moacyr Dias-Filho, Regina Moller, & Tatiana de Sá, Empresa Brasileira de Pesquisa Agropecuária, Brazil; Ima Celia Vieira, Museu Paraense Emilio Goeldi, Brazil;
Biogeochemical Cycles in Degraded Lands.

Deegan Linda A., Marine Biological Laboratory, USA.
Reynaldo Victoria, Centro de Energia Nuclear na Agricultura-Universidade de São Paulo, Brazil; Ken Edwardson, Christopher Neill, Bruce J. Peterson, & Suzanne Thomas, Marine Biological Laboratory, USA.
Linking Soil Biogeochemistry to Surface Water Chemistry in Small Drainage Basins of the Amazon.

Denning, Scott, Colorado State University, USA.
Pedro Leite Silva Dias, Maria Assunção Faus Silva Dias, & Humberto Ribeiro da Rocha, Universidade de São Paulo, Brazil; Raymond L. Desjardins.
Spatial Integration of Regional Carbon Balance in Amazonia.

Dobson, Myron Craig, University of Michigan, USA.
João Vianei Soares, Dalton de Morisson Valeriano, Instituto Nacional de Pesquisas Espaciais, Brazil; Robyn J. Burnham; Gianfranco DiGrandi; Leland E. Pierce, Fawwaz T. Ulaby, Hua Xie, & Mi Zhou, University of Michigan, USA;
Radar Remote Sensing of Land-Cover and Biomass in the Amazon.

Ehleringer, James, University of Utah, USA.
Luiz Antonio Martinelli, Universidade de São Paulo, Brazil; Craig Cook, University of Utah, USA; Lawrence Flanagan, University of Lethbridge, Canada.
Carbon and Oxygen Isotope Ratio CO_2 Flux Analyses at the Soil, Canopy, and Landscape Scales.

Fernandes, Erick C.M., Cornell University, USA.
Rogerio Perin , Elisa Vieira Wandelli, Silas Garcia Empresa Brasileira de Pesquisa Agropecuária/Centro de Pesquisa Agroflorestal do Acre, Brazil; Neliton Marques da Silva, Federal University of Amazonas, Brazil; Ilse L. Ackerman, John Duxbury, Karen A. McCaffrey, Susan J. Riha, & Steve A. Welch, Cornell University, USA; .
Carbon and Nutrient Stocks, and Soil Water Dynamics, in Abandoned Pastures and Agroforestry Systems in the Central Amazon.

Fitzjarrald, David R., State University of New York, USA.
Osvaldo Luiz Leal Moraes, Universidade Federal de Santa Maria, Brazil; Otavio Acevedo, Kathleen E. Moore, Ricardo Sakai, Ralf Staebler, & Gary Wocjik, State University of New York, USA.
Periodic, Transient, and Spatially Inhomogeneous Influences on C Exchange in Amazonia.

Foley, Jonathan A., University of Wisconsin, USA.
Marcos Heil Costa, Federal University of Viçosa, Brazil; Aurelie Botta, Jeff Cardille, & John Lenters, University of Wisconsin, USA.
The Effects of Tropical Forest Conversion: Ecological Research in the Large-Scale Biosphere-Atmosphere Experiment in Amazonia (LBA).

Freeman, Anthony, Jet Propulsion Laboratory, USA.
Bruce Nelson, Instituto Nacional de Pesquisas da Amazônia, Brazil & **Luciano Dutra**, Instituto Nacional de Pesquisas Espaciais, Brazil.
Masanobu Shimada & Ake Rosenqvist National Space Development Agency, Japan; Bruce Chapman, Jet Propulsion Laboratory, USA; Lyn McNutt & Rick Guritz, Alaska SAR Facility, University of Alaska, USA; John Melack, University of California, Santa Barbara, USA; John Baker, British National Space Center, United Kingdom.
JERS-1 Amazon multi-season mapping study (JAMMS).

Frohn, Robert C., University of Cincinnati, USA.
Marcos Pedlowski, Universidade Estadual do Norte Fluminense, Brazil.
Jessica Steffanski & Chris Allen, University of Cincinnati, USA.
Using Landsat data to develop an image-based logistic regression model of predicting deforestation in the Amazon.

Laurance, William, Smithsonian Institution, USA & Instituto Nacional de Pesquisas da Amazônia, Brazil.
Rita Guimaraes Mesquita, Manoel Pacheco, Eduardo Venticinque, & Bruce Williamson, Instituto Nacional de Pesquisas da Amazônia, Brazil; Scott Bergen; Gay A. Bradshaw, United States Department of Agriculture, USA; Marc K. Steininger & Compton J. Tucker, National Aeronautics and Space Administration/Goddard Space Flight Center, USA.
Anthropogenic Landscape Changes and the Dynamics of Amazonian Forest Biomass.

Gholz, Henry L., University of Florida, USA.
Francisco de Assis Oliveira, College of Agrarian Sciences of Pará, Brazil; Kenneth Smith, Université Laval, Canada.
Nitrogen and Phosphorus Dynamics in Forests and Converted Forest Sites in the Amazon Basin: A Review and Synthesis of Previous Research.

Goulden, Michael L., University of California, USA.
Humberto Ribeiro da Rocha, Universidade de São Paulo, Brazil; Marcy Litvak, University of California, USA; Scott Miller.
Measuring the Effects of Logging on the $C0_2$ and Energy Exchange of a Primary Forest in Tapajós National Forest.

Guenther, Alex B., National Center for Atmospheric Research, USA.
Oscar Vega Bustillos, Paulo Artaxo, Perola Castro Vasconcellos, & Lucianna Vanni Gatti, Universidade de São Paulo, Brazil; Tânia Mascarehn Tavares, Universidade Federal de Bahia, Brazil; Brad Baker, Lee Vierling, University of Colorado, USA; William Baugh, Guy Brasseur, Jim Greenberg, Peter C. Harley, Lee Klinger, & Janne Rinne, National Center for Atmospheric Research, USA.
Influence of Amazonia Land-Use Change on Chemical Constituents in the Atmosphere.

Holben, Brent N., National Aeronautics and Space Administration/Goddard Space Flight Center, USA.

Paulo Artaxo, Universidade de São Paulo, Brazil; **Alberto Setzer**, Instituto Nacional de Pesquisas Espaciais, Brazil; Thomas F. Eck, Brian Markham, Joel S. Schafer, National Aeronautics and Space Administration/Goddard Space Flight Center, USA.
Characterization of Aerosol Optical Properties and Column Water Vapor for LBA-Ecology.

Houghton, Richard A., Woods Hole Research Center, USA.
Thomas A. Stone & K.T. Lawrence, Woods Hole Research Center, USA; Carlos Souza, Jr., Instituto do Homem e Meio Ambiente da Amazonia (IMAZON), Brazil.
Selective Logging, Fire, and Biomass in Amazonia.

Huete, Alfredo R., University of Arizona, USA.
Yosio Edemir Shimabokuro, Getulio T. Batista, José Epiphanio, Instituto Nacional de Pesquisas Espaciais, Brazil; Laerte Guimaraes Ferreira, University of Arizona, USA; Christopher O. Justice, & Eric F. Vermote, National Aeronautics and Space Administration/Goddard Space Flight Center, USA; Jan Peter Muller, University College, United Kingdom; Ranga Myneni & Alan H. Strahler, Boston University, USA; Steven W. Running, University of Montana, USA; Edson Sano, Empresa Brasileira de Pesquisa Agropecuária, Brazil; John R. Townshend, University of Maryland, USA; Zhengming Wan, University of California, USA.
Validation and Evaluation of MODIS Data Products in the Large Scale Biosphere-Atmosphere Experiment in Amazonia (LBA).

Keller, Michael, United States Department of Agriculture/Forest Service, USA & University of New Hampshire, USA.
William Zamboni de Mello, Evilene Lopes, Universidade Federal de Fluminense, Brazil; Brynne Bryan, Maria M. Rivera, Mary Jeane Sanchez, & Fred Scatena, United States Department of Agriculture/Forest Service, USA; Patrick Crill, Peter Czepiel, Ali Etebari, Changsheng Li, Roberta Martin, Cindy H. Mosedale, Andy Mosedale, Ruth Varner, & Antje Weitz, University of New Hampshire, USA; Don Herman, Megan McGroddy & Whendee Silver, University of California, USA; Jason Neff, Stanford University, USA; Andrea Spangenberg & Ed Veldkamp, University of Goettingen.
Soil Biogeochemistry of Carbon, Nutrients, and Trace Gases in the Amazon Region of Brazil: Field and Model Studies of Natural and Managed Conditions.

Martens, Christopher S., University of North Carolina, USA.
Osvaldo Luiz Leal Moraes, Universidade Federal de Santa Maria, Brazil; Patrick Crill, University of New Hampshire, USA; Maria Claudia Kraemer; Howard Mendlovitz.
Radon-222 and Stable Carbon Isotope Tracing of Carbon Exchange and Trace Gas Fluxes in Old Growth and Selectively Logged Amazonian Forests.

McNabb, Ken, Auburn University, USA.
Luiz Gonzaga de Silva Costa, College of Agrarian Sciences of Pará, Brazil; Graeme Lockaby.
Soil Organic Matter Fluxes in Amazonian Forests: Natural vs. Intensively Managed Systems.

Melack, John M., University of California, USA.
Evlyn Marcia Leao de Moreas Novo, Maycira Costa, Instituto Nacional de Pesquisas Espaciais, Brazil; Laura Hess & Leal Mertes, University of California, USA.
Multi-Scale Analysis of Inundation with Microwave and Optical Remote Sensing in the Amazon Basin: Applications to Biogeochemical Measurements and Modeling.

Moore, Berrien, University of New Hampshire, USA.
Carlos Nobre, Instituto Nacional de Pesquisas da Espaciais, Brazil; Steve Frolking, George Hurtt, Charles Vorosmarty, Bobby Braswell, & Xiangming Xiao, University of New Hampshire, USA; Bruce J. Peterson, Marine Biological Laboratory, USA; Steve Pacala.
Modeling the Biogeochemical System of the Terrestrial Amazon: Issues for Sustainability.

Moran, Emilio F., Indiana University, USA.
Dalton de Morisson Valeriano & Flavio Ponzoni, Instituto Nacional de Pesquisas Espaciais, Brazil; Eduardo S. Brondizio, Paul Mausel, & John C. Randolph, Indiana University, USA.
Human and Physical Dimensions of Land Use/Cover Change in Amazonia: Forest Regeneration and Landscape Structure.

Nepstad, Daniel C., Woods Hole Research Center, USA.
Heloisa S. Miranda & Antonio C. Miranda, Universidade de Brasília, Brazil; Adriana G. Moreira, Woods Hole Research Center, USA; Paulo Roberto de Souza Moutinho, Instituto de Pesquisa Ambiental da Amazônia, Brazil; Josh Bishop.
The Present and Future Effects of Ground Fires on Forest Carbon Stocks, Metabolism, Hydrology, and Economic Value in Amazonia and Cerrado.

Potter, Christopher S., National Aeronautics and Space Administration/Ames Research Center, USA.
Claudio de Carvalho, Empresa Brasileira de Pesquisa Agropecuária, Brazil; Reynaldo L. Victoria, Centro de Energia Nuclear na Agricultura-Universidade de São Paulo, Brazil; Susan Alexander, California State University, USA; Joseph C. Coughlan & Steven Klooster, National Aeronautics and Space Administration/Ames Research Center, USA.
Modeling Terrestrial Ecosystem Processes, Carbon Fluxes, and Trace Gas Emissions for Land Cover/Use Types of the Amazon Basin.

Richey, Jeffrey E., University of Washington, USA.
Reynaldo L. Victoria, Centro de Energia Nuclear na Agricultura-Universidade de São Paulo, Brazil; **Maria Victoria Ramos Ballester**, Universidade de São Paulo, Brazil; Allan H. Devol, John I. Hedges, Miles G. Logsdon, & Emilio Mayorga, University of Washington, USA; Niro Higuchi, Instituto Nacional de Pesquisas da Amazônia, Brazil.
*Carbon and Moisture Fluxes along the LBA Transects: Data Assimilation and Modeling **(Ballester)***.
*Biogeochemical Dynamics in River Corridors of the Amazon Basin and Their Response to Anthropogenic Change **(Victoria)***.

Skole, David L., Michigan State University, USA.
Marcos Antonio Pedlowski, Northern Fluminense State University, Brazil; William A. Salas, University of New Hampshire, USA; Robert Walker, Commonwealth Scientific and Industrial Research Organization, USA; Charles H. Wood, University of Texas, USA.
Measurement and Modeling of the Inter-Annual Dynamics of Deforestation and Regrowth in the Brazilian Amazon: Land Use Control on the Annual Net Flux of Carbon.

Smith, Eric A., Florida State University, USA.
Pedro L. Silva Dias, Universidade de São Paulo, Brazil, Harry J. Cooper, Jiujing Gu, Florida State University, USA; John M. Norman & Peter Snyder, University of Wisconsin, USA.
High Resolution Carbon Exchange Over Large-Scale Amazonia Based on Modeling and GOES Satellite-Derived Radiation Inputs.

Steudler, Paul A., Marine Biological Laboratory, USA.
Carlos C. Cerri, Centro de Energia Nuclear na Agricultura, Universidade de São Paulo, Brazil.
Jerry Melillo & Christopher Neill, Marine Biological Laboratory, USA.
Trace gas fluxes associated with land-cover and land-use changes in the Brazilian Amazon Basin.

Tans, Pieter P., National Oceanic and Atmospheric Administration, USA.
Paulo Artaxo, Universidade de São Paulo, Brazil; Peter S. Bakwin, National Oceanic and Atmospheric Administration, USA; Brad Gore & Doug Guenther, University of Colorado, USA.
Vertical Profiles of Carbon Dioxide and Other Trace Gas Species Over the Amazon Basin Using Small Aircraft

Townsend, Alan R., University of Colorado, USA.
Greg Asner, University of Colorado, USA.
Mercedes Bustamante, University of Brasilia, Brazil.
Gina Cardinot & Gabriela Nardoto, University of Brasilia, Brazil; Cory Cleveland, University of Colorado, USA; Jason Neff, Stanford University, USA.
An integrated use of experimental modeling and remote sensing techniques to investigate carbon isotope and nutrient dynamics in the humid tropics.

Trumbore, Susan E., University of California, USA.
Plinio B. de Camargo & Luiz Antonio Martinelli, Universidade de São Paulo, Brazil; Jeffrey W. Chambers, Enir S. da Costa, & Tibisay J. Perez, University of California, USA; Carlos Scaramuzza, Monica T. Shimabokuro, Indiana University, USA; John R. Southon, Lawrence Livermore National Lab, USA.
Carbon Dynamics in Vegetation and Soils along the Eastern LBA Transect.

Williams, Mathew, Marine Biological Laboratory, USA.
Yosio Edemir Shimabokuro, Instituto Nacional de Pesquisas Espaciais, Brazil; Silvana Amaral; Edward B. Rastetter, Marine Biological Laboratory, USA.

A Modeling Synthesis of the Impacts of Tropical Forest Conversion on Carbon Fluxes and Storage, and on Nutrient Dynamics in Amazonia.

Wofsy, Steven C., Harvard University, USA.
Volker Kirchhoff, Instituto Nacional de Pesquisas Espaciais, Brazil; Paulo Artaxo, Universidade de São Paulo, Brazil; Carol Barford, Alfram V. Bright, John Budney, Bruce C. Daube, Allison Dunn, John C. Lin, J. William Munger, Elizabeth Pyle, Scott Saleska, & Shawn Urbanski, Harvard University, USA.
Net Ecosystem Exchange of $C0_2$ and H_20 from Primary Tropical Forest in Central Amazonia

Zepp, Richard G., United States Environmental Protection Agency, USA.
Mercedes M.C. Bustamante, Universidade de Brasília, Brazil; Roger A. Burke & Marirosa Molina, United States Environmental Protection Agency, USA; Stephen Opsahl, National Research Council, USA.
Impacts of Land Use Change on Nutrient and Carbon Cycles and Trace Gas Exchange in Soils of Savannas of Central Brazil.