



[DAAC Home](#) > [Data](#) > [Field Campaigns](#) > [LBA \(Amazon\)](#) > [Data Set Documentation](#)

LBA-ECO LC-09 Daily Precipitation for Altamira and Santarem, Para, Brazil: 1961-1998

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Revision date: August 28, 2009

Summary:

This data set reports daily total precipitation data retrieved from Brazilian National Institute of Meteorology (INMET) network for three stations near two Amazonian research sites: Altamira, and Santarem, from 1961-1998.

Daily precipitation totals are provided in one comma-separated ASCII file for three stations in Para, including two sites in Altamira: Altamira City and on the Transamazon Highway at Km 100 near Medicilandia (operated by EMBRAPA); and one site in Santarem: Taperinha. Data availability varies by station (sublocation): Altamira City from 1961-1990, Transamazon Km 100 from 1982-1998, and Taperinha from 1983-1992.

Data Citation:

Cite this data set as follows:

Brondizio, E.S. and E.F. Moran. 2009. LBA-ECO LC-09 Daily Precipitation for Altamira and Santarem, Para, Brazil: 1961-1998. Data set. Available on-line [<http://daac.ornl.gov>] from Oak Ridge National Laboratory Distributed Active Archive Center, Oak Ridge, Tennessee, U.S.A. doi:10.3334/ORNLDAAC/940

Implementation of the LBA Data and Publication Policy by Data Users:

The LBA Data and Publication Policy [http://daac.ornl.gov/LBA/lba_data_policy.html] is in effect for a period of five (5) years from the date of archiving and should be followed by data users who have obtained LBA data sets from the ORNL DAAC. Users who download LBA data in the five years after data have been archived must contact the investigators who collected the data, per provisions 6 and 7 in the Policy.

This data set was archived in August of 2009. Users who download the data between August 2009 and July 2014 must comply with the LBA Data and Publication Policy.

Data users should use the Investigator contact information in this document to communicate with the data provider. Alternatively, the LBA Web Site [<http://lbaeco-archive.ornl.gov/>] in Brazil will have current contact information.

Data users should use the Data Set Citation and other applicable references provided in this document to acknowledge use of the data.

Table of Contents:

- [1 Data Set Overview](#)
- [2 Data Characteristics](#)
- [3 Applications and Derivation](#)
- [4 Quality Assessment](#)
- [5 Acquisition Materials and Methods](#)
- [6 Data Access](#)
- [7 References](#)

1. Data Set Overview:

Project: LBA (Large-Scale Biosphere-Atmosphere Experiment in the Amazon)

Activity: LBA-ECO

LBA Science Component: Land Use and Land Cover

Team ID: LC-09 (Moran / Batistella)

The investigators were Moran, Emilio Federico; Batistella, Mateus; Adams, Ryan Thomas; Boucek, Bruce William; Brondizio, Eduardo S.; D'Antona, Alvaro; Demming, Kristin Rooke; Fiorini, Stefano; Futeemma, Celia Regina Tomiko; Hedin, Lars; Hetrick, Scott S.; Jensen, Ryan R.; Lu, Dengsheng; Ludewigs, Thomas; Mausel, Paul; McGroddy, Megan; Menzies, John Iral; Navarro, Doris Graziela; Ponzoni, Flavio Jorge; Randolph, J.C.; Schmid, Hans Peter E.; Siqueira, Andrea Dalledone; Toniolo, Maria Angelica; Valeriano, Dalton De Morisson; Valladares, Gustavo Souza; VanWey, Leah and Yu, Genong . You may contact Brondizio, Dr Eduardo S. (ebrondiz@indiana.edu).

LBA Data Set Inventory ID: LC09_Precipitation

This data set reports precipitation data for two Amazonian climate stations in Altamira and Santarem, from 1961-1998. Specific data includes total daily precipitation at two sites in Altamira: One located in the city area (data from 1961-1999) and one located on the Transamazon Highway at Km 100, near Medicilandia (1983-1992). Specific data also includes precipitation information at one site near Santarem: Taperinha (1982-1998).

For additional information, please see the following web sites:

- [ACT, Indiana University \(http://www.indiana.edu/~act/ \)](http://www.indiana.edu/~act/)
- [Instituto Nacional de Meteorologia \(http://www.inmet.gov.br/ \)](http://www.inmet.gov.br/)

Related Data Set(s):

- [LBA-ECO LC-09 Vegetation Composition and Structure in the Brazilian Amazon: 1992-1995 \(Vegetation composition and structure data at nearby sample sites\)](#)
- [LBA-ECO LC-09 Soil Composition and Structure in the Brazilian Amazon: 1992-1995 \(Soil composition and structure data at nearby sample sites\)](#)

2. Data Characteristics:

Data are provided in a single comma-separated ASCII file. Missing numeric values are represented as -9999.

Data Filename: LC09_Precipitation_Altamira_Santarem.csv

Column number	Column heading	Units/format	Description
1	Location		Location of Embrapa climate station: Altamira, Santarem
2	Sublocation		Location within study areas: Altamira: Altamira-City or Transamazon-Km100 in Medicilandia; Santarem: Taperinha
3	Date	yyyy/mm/dd	Date
4	Year	yyyy	Year
5	Month	mm	Month
6	Day	dd	Day
7	Precip	mm	Total daily precipitation in millimeters (mm)

Example Data Records :

Header records omitted
Location,Sublocation,Date,Year,Month,Day,Precip
Altamira,Altamira-City,1961/01/01,1961,1,1,0
Altamira,Altamira-City,1961/01/02,1961,1,2,0
Altamira,Altamira-City,1961/01/03,1961,1,3,0
Altamira,Altamira-City,1961/01/04,1961,1,4,0
Altamira,Altamira-City,1961/01/05,1961,1,5,0
...
Santarem,Taperinha,1998/12/27,1998,12,27,0
Santarem,Taperinha,1998/12/28,1998,12,28,0
Santarem,Taperinha,1998/12/29,1998,12,29,0
Santarem,Taperinha,1998/12/30,1998,12,30,0
Santarem,Taperinha,1998/12/31,1998,12,31,0

Site boundaries: (All latitude and longitude given in degrees and fractions)

Site (Region)	Westernmost Longitude	Easternmost Longitude	Northernmost Latitude	Southernmost Latitude	Geodetic Datum
Para Western (Santarem) - Altamira (Para Western)	-54.00000	-51.00000	-2.50000	-4.00000	South-American Datum, 1969

(Santarem))					(SAD-69)
Para Western (Santarem) - Taperinha (Para Western (Santarem))	-54.28306	-54.28306	-2.5275	-2.5275	South-American Datum, 1969 (SAD-69)
Para Western (Santarem) - Medicilandia (Para Western (Santarem))	-52.888906	-52.888906	-3.448618	-3.448618	South-American Datum, 1969 (SAD-69)

Time period:

- The data set covers the period 1961/01/01 to 1998/12/31.
- Temporal Resolution: Daily

Platform/Sensor/Parameters measured include:

- METEOROLOGICAL STATION / RAIN GAUGE / PRECIPITATION AMOUNT

3. Data Application and Derivation:

Not provided.

4. Quality Assessment:

Please refer to the Brazilian National Institute of Meteorology (INMET): <http://www.inmet.gov.br>. Altamira is an agricultural colonization front that opened up in 1971. Slash-and-burn cultivation, plantation agriculture, and mechanized agriculture are present in the area. Lengths of fallows vary in these communities.

5. Data Acquisition Materials and Methods:

Data was acquired from the following Brazilian National Institute of Meteorology (INMET) stations:

82353 - Altamira Management - 2 distrito de meteorologia

Lat: 3 deg 13' S
 Long: 51 deg 13' W
 Alt.:74.04 m
 Type: Conventional
 Status: Operational
 Classification: Principal Climatology Station (INMET)
 Time Zone UTC: -3

82246 - Belterra Management - 2 distrito de meteorologia

Lat: 2 deg 38' S
 Long: 54 deg 57' W
 Alt.:175.74 m
 Type: Conventional
 Status: Operational
 Classification: Principal Climatology Station (INMET)
 Time Zone UTC: -4

Details can be found at this website: http://www.inmet.gov.br/html/rede_obs.php.

Values were recorded each minute and totaled for each hour. Data here are summarized by day.

6. Data Access:

This data is available through the Oak Ridge National Laboratory (ORNL) Distributed Active Archive Center (DAAC).

Data Archive Center:**Contact for Data Center Access Information:**

E-mail: uso@daac.ornl.gov

Telephone: +1 (865) 241-3952

7. References:



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-
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 - [Who We Are](#)
 - [User Working Group](#)
 - [Biogeochemical Dynamics](#)
 - [Data Citation Policy](#)
 - [News](#)
 - [Newsletters](#)
 - [Workshops](#)
 - Products**
 - [Product Overview](#)
 - [Field Campaigns](#)
 - [Validation](#)
 - [Regional/Global](#)
 - [Model Archive](#)
 - Data**
 - [Complete Data Set List](#)
 - [Search for Data](#)
 - [Field Campaigns](#)
 - [Validation](#)
 - [Regional/Global](#)
 - [Model Archive](#)
 - Tools**
 - [Data Search](#)
 - [Site Search](#)
 - [Search by DOI](#)
 - [WebGIS](#)
 - [SDAT](#)
 - [MODIS Land Subsets](#)
 - [THREDDS](#)
 - Help**
 - [FAQs](#)
 - [Tutorials](#)
 - [Data Management](#)
 - [Archival Interest](#)
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