CALIPSO Quality Statements Summary: IIR Level 1B Radiances

Standard and Expedited Data Set Definitions

Standard Data Sets:
Standard data processing begins immediately upon delivery of all required ancillary data sets. The ancillary data sets used in standard processing (e.g., GMAO meteorological data and data from the National Snow and Ice Data Center) must be spatially and temporally matched to the CALIPSO data acquisition times, and thus the time lag latency between data onboard acquisition and the start of standard processing can be on the order of several days.
The data in each data set are global, but are produced in files by half orbit, with the day portion of an orbit in one file and the night portion of the orbit in another.

Expedited Data Sets:
Expedited data are processed as soon as possible after following downlink from the satellite and delivery to LaRC. Latency between onboard acquisition and analysis expedited processing is typically on the order of 6 to 28 hours. Expedited processing uses the most recently current available set of ancillary data (e.g., GMAO meteorological profiles) and calibration coefficients available, which may lag the CALIPSO data acquisition time/date by several days.
Expedited data files contain at the most, 90 minutes of data. Therefore, each file may contain both day and night data.
NOTE: Users are strongly cautioned against using Expedited data products as the basis for research findings or journal publications. Standard data sets only should be used for these purposes.

The differences between expedited processing and standard processing are explained in more detail in "Adapting CALIPSO Climate Measurements for Near Real Time Analyses and Forecasting" (PDF).

IIR Level 1B Radiances Information Half orbit (Night and Day) geolocated, calibrated radiances					
Release Date	**Version**	**Data Date Range**	**Product Quality Statement**	**Data Detail Quality Statement**	**Maturity Level**
December 2011	1.12	November 1, 2011 to present	1.12 Version Summary	In Preparation	Provisional
November 6, 2008	1.11	August 20, 2008 to October 31, 2011	1.11 Version Summary		Provisional
December 8, 2006	1.10	June 13, 2006 to August 19, 2008	1.10 Version Summary		Provisional

Data Release Date: December 2011
Version: 1.12
Data Date Range: November 1, 2011 to present

The CALIPSO Team is releasing Version 3.02 (IIR Level 1 new version number is 1.12) which represents a transition of the Lidar, IIR, and WFC processing and browse code to a new cluster computing system. No algorithm changes were introduced and very minor changes were observed between V 3.01 and V 3.02 as a result of the compiler and computer architecture differences. Version 3.02 (IIR Level 1 1.12) is being released in a forward processing mode beginning November 1, 2011.

Data Release Date: November 6, 2008
Version: 1.11
Data Date Range: August 20, 2008 to October 31, 2011

See CALIPSO's Data Products Catalog.

Data Release Date: December 8, 2006
Version: 1.10
Data Date Range: June 13, 2006 to August 19, 2008

See CALIPSO's Data Products Catalog.