

CDDIS ARCHIVE STRUCTURE SUPPORTING LASER RANGING DATA

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Abstract

The Crustal Dynamics Data Information System (CDDIS) has archived laser ranging data since 1982. These data consist of on-site normal points and full-rate. Products derived from the data are also archived in support of the ILRS. A new Linux-based server was recently procured for the CDDIS. During the transition to this new server, modifications to the on-line directory structure and filenames for the laser data archive will be made. This presentation will outline the new structure and filenames proposed for the CDDIS laser ranging archive.

Introduction

The CDDIS has archived laser ranging data for over twenty years. As the data products have changed over the years, it is now an appropriate time to revisit the structure of the archive and the naming of the data files.

Proposed Changes

The proposed structure for the CDDIS laser data archive provides a more logical and user-friendly format for both directories and filenames. This structure and naming convention also provides uniformity between the normal point and full-rate data types. Furthermore, the layout of the laser data archive will be more consistent with other types of space geodesy data available through the CDDIS.

The changes to the CDDIS laser data archive, as shown in Figure 1, are in the structure of the directories and the names of the files. The contents of the files will not change: daily normal point files contain data received in the previous 24-hour period, hourly normal point files contain data received in the previous one-hour period, and monthly normal point and full-rate files contain data dated for the month reflected in the file name. The formats of normal point and full-rate data also remain unchanged.

These structure modifications will be implemented on the new CDDIS server, *cddis.gsfc.nasa.gov*, which will be operational in the fall of 2004. To allow users time to prepare their data retrieval scripts for the new directory structure and file naming convention, the existing CDDIS server, *cddisa.gsfc.nasa.gov*, will remain accessible for some months after the new server becomes operational. Through the first few months of 2005, the data and product archives of both *cddis.gsfc.nasa.gov* and *cddisa.gsfc.nasa.gov* will be updated and maintained. After a suitable transition period, updates to the older UNIX server, *cddisa.gsfc.nasa.gov*, will no longer occur and the system will be taken off-line.

/pub/slir/data/				
	/npt/SATNAME/YEAR/SATNAME.YYMMDD	Daily combined normal point data file by satellite		
	/SATNAME.YYMM	Monthly normal point data file		
	/sum/SATNAME_sum.YYMM	Monthly normal point summary file		
	/allsat/YEAR/nasa_allsat.YYMMDD	Daily HTSI file includes normal point data from NASA stations only for all satellites		
	/edc_allsat.YYMMDD	Daily EDC file includes normal point data from EUROLAS stations only for all satellites		
	/allsat.YYMMDD	Daily combined normal point data file for all satellites		
	/allsatH.YYMMDD	Hourly combined normal point data file for all satellites		
	/allsat.YYMM	Monthly normal point data file for all satellites		
	/sum/allsat_sum.YYMM	Monthly normal point summary file		
	/fr/SATNAME/YEAR/SATNAME_V.YYMM.Z	Monthly full-rate data file		
	/sum/SATNAME_V_sum.YYMM.Z	Monthly full-ratesummary file		
	/daily/SSSS/SSSS_YYMMDD_V.SATNAME.Z	Daily full-rate data file		
	/npt/YYYY/SATNAME_V_npt.YYMM.Z	Monthly file of normal points created from full-rate		
	/sum/SATNAME_V_npt_sum.YYMM.Z	Monthly summary file of normal points created from full-rate		
	/llrnpt/YEAR/llr_npt.YYMM.Z	Monthly LLR normal points, prior to 1999		
	/llrnpt/YEAR/sum/llr_npt_sum.YYMM.Z	Monthly LLR normal point summary, prior to 1999		
KEY:	SATNAME	satellite name (agreed to list)	DD	2-digit day
	YEAR	4-digit year	H	1-digit hour of day
	YY	2-digit year	V	version number
	MM	2-digit month	SSSS	4-digit station number

Figure 1. Proposed Structure for CDDIS Laser Data Archive

Further Information

Any questions concerning the proposed changes to the laser data archive of the CDDIS should be directed to the CDDIS Manager, Carey Noll (Carey.Noll@nasa.gov).