

GLDAS Forcing Data

Table below summarizes attributes of the meteorological forcing data used to drive the land surface models and links to original data sources.

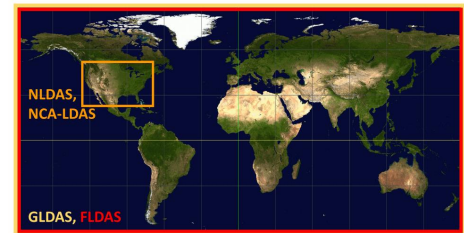
The GLDAS-1 simulations distributed from GES DISC were forced with a combination of GDAS, disaggregated CMAP, and AFWA radiation datasets listed below. The GLDAS-2 simulations also distributed from GES DISC were forced with the Global Meteorological Forcing Dataset from the Princeton University. The datasets used in the GLDAS products are indicated in the right most column of the table.

GLDAS Forcing Datasets Summary

DATASET NAME	DATASET TYPE	PARAMETERS	DOMAIN	SPATIAL RESOLUTION	TIME RECORD
NCEP's Global Data Assimilation System (GDAS)	Model Derived	Meteorology Forcing	Global	Gaussian (~0.205 degree)	Jan. 2000 - Current
NASA's Goddard EOS Data Assimilation System (GEOS)	Model Derived	Meteorology Forcing	Global	0.67 x 0.5 degree	Dec. 2000 - Current
The European Centre for Medium Range Weather Forecasting (ECMWF)	Model Derived	Meteorology Forcing	Global	Gaussian (~0.205 degree)	Sept. 2001 - Current
The Princeton Global Meteorological Forcing Dataset	Bias corrected Reanalysis	Meteorology Forcing	Global	1.0 x 1.0 degree	1948 - 2010
Disaggregated CMAP Precipitation	Merged Satellite/Gauge	Mean rain rate	Global	Gaussian (~0.205 degree)	Jan. 2001 - Current
Air Force Weather Agency (AFWA) Radiation	Satellite Observed	Shortwave, Longwave (cloud heights)	Global	0.25 x 0.25 degree	March 2001 - Current

Get the Data

[LDAS datasets are available from the NASA GES DISC](#)



The NASA Goddard Earth Sciences Data and Information Services Center (GES DISC) provides access to LDAS datasets using multiple methods, including HTTPS, GDS, and the ability to subset spatially, temporally, and/or by variable:

- [GLDAS](#)
- [NLDAS](#)
- [NCA-LDAS](#)
- [FLDAS](#)

These datasets are also available via [Giovanni](#). Giovanni is an online application developed by the GES DISC that allows researchers to rapidly explore data, so that spatial-temporal variability, anomalous conditions, and patterns of interest can be directly and easily analyzed online before optionally downloading the data. Supported download formats include NetCDF, GeoTIFF, and KMZ.

Latest News

[FLDAS on Climate Engine Famine Early Warning Systems Network Land Data Assimilation System \(FLDAS\)](#) global data are now publicly available on [Climate Engine](#).

[NLDAS-1 data will be decommissioned on 4/1/2020](#)

NLDAS Phase 1 ([NLDAS-1](#)) data will be removed from the NASA GES DISC on 1 April

DATASET NAME	DATASET TYPE	PARAMETERS	DOMAIN	SPATIAL RESOLUTION	TIME RECORD
Global Precipitation Climatology Project (GPCP)	Merged Satellite/Gauge	Mean rain rate	Global	1.0 x 1.0 degree	Oct. 1 1996 - Current
NOAA/CPC CMORPH Precipitation	Satellite Observed	Mean rain rate	60N - 60S	8 km	Dec. 2002 - Current
NASA/GSFC TRMM 3B42(V7) Precipitation	Calibrated satellite estimates	Mean rain rate	60N - 60S	0.25 x 0.25 degree	Jan. 1998 - Current
NASA/GSFC TRMM 3B42RT Realtime Huffman Precipitation	Satellite Observed	Mean rain rate	60N - 60S	0.25 x 0.25 degree	Feb. 2002 - Current
Naval Research Laboratory Precipitation	Satellite Observed	Mean rain rate	60N - 60S	0.25 x 0.25 degree	Jan. 2001 - Current
PERSIANN Precipitation	Satellite Observed	Mean rain rate	60N - 60S	0.25 x 0.25 degree	Jan. 2002 - Current

NASA GLEDS on 1 April

2020.

[FLDAS - East Africa Special Report](#)
[2019 Short Rains in East Africa Among the Wettest on Historical Record](#)

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