

Appendix A

GLASS Product Archive and Distribution

The GLASS products are available at

- the Beijing Normal University Center for Global Change data Processing and Analysis at <http://www.bnu-datacenter.com>
- the University of Maryland Global Land Cover Facility at <http://glcf.umd.edu>.

Appendix B

Acronmys

AB	Angular Bin
ADEOS	The Advanced Earth Observing Satellite
AERONET	AErosol RObotic NETwork
ANN	Artificial Neural Networks
AOD	Aerosol Optical Depth
ASTER	Advanced Spaceborne Thermal Emission and Reflectance Radiometer
AVHRR	Advanced Very High Resolution Radiometer
BBE	Broadband Emissivity
BELMANIP	Benchmark Land Multisite Analysis and Intercomparison of Products
BF	Baseline Fit
BRDF	Bidirectional Reflectance Distribution Function
BRF	Bidirectional Reflectance Factor
BSA	Black-sky-albedo
CALIPSO	Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observations
CASA	Carnegie-Ames-Stanford Approach
CC	Correlation Coefficient
CCCM	CALIPSO, CERES, Clousat, and MODIS
CDR	Climate Data Record
CEOS	Committee of Earth Observation Satellite
CERES	Clouds and Earth's Radiant Energy System
CIMEL	Ciencia e Investigación Médica Estudiantil Latinoamericana
CIMSS	Cooperative Institute for Meteorological Satellite Studies
CLM2	Community Land Model Version 2
CMG	Climate Modeling Grid
CNES	Centre National d'Etudes Spatiales
DOY	Day Of Year
EC-LUE	Eddy Covariance-Light Use Efficiency
ESDR	Earth Science Data Record
ESU	Elementary Sampling Unit

EUMESAT	European Organisation for the Exploitation of Meteorological Satellites
FPAR	Fraction of absorbed PAR
FSW	Fixed Swath Width
FTIR	Fourier Transform Infrared
GCTP	General Cartographic Transformation Package
GEWEX	Global Energy and Water Exchanges Project
GLASS	Global LAnd Surface Satellite
GLO-PEM	Global Production Efficiency Model
GMAO	Global Modeling and Assimilation Office
GMS	Geostationary Meteorology Satellite
GMTED	Global Multi-resolution Terrain Elevation Data
GOES	Geostationary Operational Environmental Satellite
GPP	Gross Primary Production
GRNNs	General Regression Neural Networks
HPC	High-Performance Computing
HRVIR	Visible and Infrared High-Resolution
IGBP	International Geosphere–Biosphere Program
ISCCP	International Satellite Cloud Climatology Project
ISIN	Integerized Sinusoidal
ISR	Incident Shortwave Radiation
ISSTES	Iterative Spectrally Smooth Temperature and Emissivity Separation
LAI	Leaf Area Index
LSE	Land Surface Emissivity
LST	Land Surface Temperature
LTDR	Long-term Land Data Record
LUT	Look-up Tables
MDBA	Murray-Darling Basin Authority
MERIS	Medium-Resolution Imaging Spectrometer
MFG	Meteosat First Generation
MISR	Multi-angle Imaging SpectroRadiometer
MODIS	Moderate Resolution Imaging Spectroradiometer
MODTRAN	Moderate Resolution Transmission
MOR	Method of Ration
MSG	Meteosat Second Generation
MTSAT	Multifunctional Transport Satellites
MVC	Maximum Value Composite approach
NAALSED	North American ASTER Land Surface Emissivity Database
NAO	North Atlantic Oscillation
NASA	National Aeronautics and Space Administration
NCAR	National Center for Atmospheric Research
NDHD	Normalized Difference Between Hotspot and Darkspot
NDVI	Normalized Difference Vegetation Index
NEE	Net Ecosystem Exchange
NH	Northern Hemisphere

NOAA	National Oceanic and Atmospheric Administration
NPP	Net Primary Production
NSA	Northern Study Area
PAR	Photosynthetically Active Radiation
PARASOL	Polarization and Anisotropy of Reflectances for Atmospheric Sciences coupled with Observations from a Lidar
PNNs	Probabilistic Neural Networks
POLDER	Polarization and Directionality of the Earth's Reflectances
QC	Quality Control
RBFNs	Radial basis Function Networks
RMS	Root Mean Square
RMSD	Root Mean Square Deviation
RPV	Rahman-Pinty-Verstraete
RTMs	Radiative transfer models
SCE-UA	Shuffled Complex Evolution Method developed at the University of Arizona
SDSs	Separate Scientific Data Sets
SEVIRI	Spinning Enhanced Visible and Infrared Imager
SH	Southern Hemisphere
SPOT	Satellites Pour l'Observation de la Terre or Earth-observing Satellites
SRB	Surface Radiation Budget
STF	Statistics-based Temporal Filtering
SURFRAD	Surface Radiation
TES	Temperature and Emissivity Separation
TIGR	Thermodynamic Initial Guess Retrieval
TIR	Thermal Infrared
TOA	Top-of-atmosphere
TOMS	Total Ozone Mapping Spectrometer
UTM	Unified Threat Management
UWIREMIS	University of Wisconsin Global Infrared Land Surface Emissivity Database
VALERI	Validation of Land European Remote sensing Instruments
VNIR	Visible and Near-infrared
WMO	World Meteorological Organisation
WSA	White-sky-albedo
XRD	X-ray Diffraction