

GSL Acronym List - Earth System Prediction - Data Assimilation Section

Acronym	Definition
3DEnVar	Three-Dimensional Ensemble Variational assimilation
ABO	Aircraft Based Observations
AOD	Aerosol Optical Depth
AQPI	Advanced Quantitative Precipitation Information
ARL	Air Resources Laboratory
ARW	Advanced Research WRF (dynamic core option in WRF)
ASRE	Atmospheric Science for Renewable Energy
AVID	Assimilation and Verification Innovation Division
AWC	Aviation Weather Center (an NCEP center)
AWRP	FAA's Advanced Weather Research Program
BEC	Background Error Covariances
bs_T	temperature bias
BT	brightness temperatures
CAM	Convection Allowing Model
CAPE	Convective Available Potential Energy
CIs	Cooperative Institutes
CMAQ	Community Multiscale Air Quality Modeling System
CONUS	Contiguous United States
COVID-19	Coronavirus disease 2019
CrIS	Cross-track Infrared Sounder
CRTM	Community Radiative Transfer Model
CSL	Chemical Sciences Laboratory
DA	Data Assimilation
DAB	Data Assimilation Branch
DSUP	Disaster Supplemental
EMC	NWS Environmental Modeling Center
EnSRF	Ensemble Square Root Filter assimilation
FAA	Federal Aviation Administration/U.S. Department of Transportation
fcst	forecast
FSL	Forecast Systems Laboratory (predecessor of GSL)
FSOI/EFDOI	Forecast Sensitivity and Observation Impact/Ensemble Forecast Sensitivity and Observation Impact
GDAS	Global Data Assimilation System
GLERL	Great Lakes Environmental Research Laboratory
GOES	Geostationary Operational Environmental Satellite
GPS-Met PW	Global Positioning System Meteorology system Precipital Water
GSI	Gridpoint Statistical Interpolation data assimilation system
hPa	hecto-pascals
HRRR	High-Resolution Rapid Refresh model
HRRRDAS	HRRR Data Assimilation System
HRRRE	High-Resolution Rapid Refresh Model scaled to a small region or domain
ICICLE	In-Cloud ICing and Large-drop Experiment
IMET	Incident Meteorologist (NWS)

JEDI	Joint Effort for Data assimilation Integration
JPSS	Joint Polar Satellite System Proving Ground
JTTI	Joint Technology Transfer Initiative
km	kilometer
LAM	Limited Area Model (formerly SAR)
MIT/LL	Massachusetts Institute of Technology - Lincoln Laboratory
MRMS	Multi-Radar/Multi-Sensor (national radar data merger system)
NASA GMAO	NASA Global Modeling and Assimilation Office
NCEP	NOAA's National Centers for Environmental Prediction
NOAA QOSAP	Quantitative Observing System Assessment Program
NRL	Naval Research Laboratory
NSSL	National Severe Storm Laboratory
NWS	National Weather Service (NOAA)
O minus B	Observation minus Background
OSE	Observing System Experiment or Observation Sensitivity Experiment
OWP	Office of Water Prediction
PM2.5	Particulate Matter that is 2.5 micrometers and smaller
PSL	Physical Sciences Laboratory
R&D	Research and Development
R2O	Research to Operations
raobs	Radiosonde observations
RAP	Rapid Refresh model
RH	Relative Humidity
RMS	Root Mean Square Error
RRFS	Rapid Refresh Forecast System
RTMA-3D	Three-Dimensional Real-Time Mesoscale Analysis
RUC	Rapid Update Cycle model
sat AMVs	satellite Atmospheric Motion Vectors
SPC	Storm Prediction Center (within NCEP)
UFS	Unified Forecast System
UFS R2O	Unified Forecast System - Research to Operations
UK Met Office/UKmet	United Kingdom's national weather service
VAD winds	Velocity Azimuth Display
VIIRS	Visible Infrared Imaging Radiometer Suite
VSE	VORTEX South East
WMO	World Meteorological Organization
WoF/WoFS	Warn-On Forecast/Warn-on-Forecast System – OAR research project
WPC	NOAA NCEP's Weather Prediction Center