

GSL Acronym List - Earth System Prediction - Modeling Section

Acronym	Definition
AOD	Aerosol Optical Depth
ARL	Air Resources Laboratory
BAMS	Bulletin of the American Meteorological Society
CAM	Convection Allowing Model
CCPP	Common Community Physics Package
CMAQ	Community Multiscale Air Quality Modeling System
CPOL	C-BAND POLARIMETRIC
CSI	Critical Success Index
CSL	Chemical Sciences Laboratory
DA	Data Assimilation
DIFF	difference
DOE	U.S. Department of Energy
DTC	Developmental Testbed Center
EPAD	Earth Prediction Advancement Division
ESRL-FIMr1p1	Earth System Research Laboratories - Flow-Following Icosahedral Model
FRP	Fire radiative power
FV3	Finite Volume Cubed Sphere model
FV3-CMAQ	Finite Volume Cubed Sphere - Global Forecast System
FV3-GFS	Finite Volume Cubed Sphere - Community Multiscale Air Quality
GEFS	Global Ensemble Forecast System
GEFS - EMC	Global Ensemble Forecast System - Environmental Modeling Center
GEFS-Aerosols	Global Ensemble Forecast System - Aerosols
GEM-ECCC	Global Environmental Multiscale Model - Environment and Climate Change Canada
GEOS	Goddard Earth Observing System Model
GF	Grell-Freitas convection scheme
GF/GFO	Grell-Freitas (convective scheme, or Grell-Freitas-Olson version)
GLERL	Great Lakes Environmental Research Laboratory
GMAO-GEOS	Global Modeling and Assimilation Office - Goddard Earth Observing System Model
GML	Global Monitoring Laboratory
GOCART	Goddard Chemistry Aerosol Radiation and Transport model
GPS-Met PW	Global Positioning System Meteorology system Precipital Water
GWD	Gravity Wave Drag
Height ALS	Airborne laser scanning
HRRR	High-Resolution Rapid Refresh model
HRRR-AK	HRRR-Alaska
HRRR-smoke	HRRR Smoke model
JTECH	The Journal of Atmospheric and Oceanic Technology
LASSO Study	Large-Eddy Simulation (LES) ARM Symbiotic Simulation and Observation
LES	Large-Eddy Simulation
MERRA2	Modern-Era Retrospective analysis for Research and Applications, Version 2
METAR	Aviation Routine Weather Report (translation from French)
ML	Machine Learning
MME	North American Multi-Model Ensemble

MRMS	Multi-Radar/Multi-Sensor (national radar data merger system)
MYNN	Mellor–Yamada–Nakanishi–Nino (boundary-layer parameterization)
MYNN-EDMF	Mellor–Yamada–Nakanishi–Nino Eddy Diffusivity-Mass Flux
NASA	National Aeronautics and Space Administration
Navy-ESPC	US Navy - Earth System Prediction Capability
NGAC	National Geospatial Advisory Committee
NGGPS	Next-Generation Global Prediction System
NHX	Northern Hemisphere
NRL	Naval Research Laboratory
NW	Northwest
NWM	National Water Model
NWP	Numerical Weather Prediction
OBS	Observation
PBL	Planetary Boundary Layer
PDF	Probability Density Function
PM2.5	Particulate Matter that is 2.5 micrometers and smaller
ppb	parts per billion
PSL	Physical Sciences Laboratory
QPF	Quantitative Precipitation Forecast
RAP domain	Rapid Refresh models geographic coverage area
RAP-Chem	Rapid Refresh model - coupled to chemistry
RAP-smoke	Rapid Refresh model - coupled to chemistry
RMS/RMSE	Root-Mean-Square Error
RRTM	Rapid Radiative Transfer Model
RSMAS-CCSM4	Rosenstiel School of Marine and Atmospheric Science -Community Climate System Model version 4.0
RUC	Rapid Update Cycle model
RUC LSM	RUC Land-Surface Model
SAS	Simplified Arakawa–Schubert Convection Scheme
SGS	Subgrid-scale
SHX	Southern hemisphere
SOA	secondary organic aerosols
SPP	Stochastically Perturbed PARameterizations
SPPT	Stochastically Perturbed Physical Tendancies
SubX FIM	Subseasonal Experiment Flow-following finite-volume Icosahedral Model (experimental global model)
TKE	Turbulent Kinetic Energy
TWP-ICE	Tropical Western Pacific – International Cloud Experiment
UCAR	University Corporation for Atmospheric Research
UFS	Unified Forecast System
UTC	Coordinated Universal Time
WRF	Weather Research and Forecasting model (community model system)
WRF-Chem	Extended version of WRF model including inline chemistry (two-way interaction)
WRF-GSI	Weather Research and Forecasting Model - Gridpoint Statistical Interpolation
WV	West Virginia