

GSL Acronym List - Earth System Prediction - Prediction Across Scales Section

Acronym	Definition
1-FAR	one minus False Alarm Rate
ACARS	Aircraft Communications Addressing and Reporting System
AGL	Above Ground Level (height above ground)
AI	Artificial Intelligence
AQPI	Advanced Quantitative Precipitation Information
ARM	Atmospheric Radiation Measurement - Dept. of Energy research program
ASNOW - HRRR	Total snowfall - High-Resolution Rapid Refresh model
AWC	Aviation Weather Center (an NCEP center)
BAMS	Bulletin of the American Meteorological Society
CAM	Convection Allowing Model
CCPP	Common Community Physics Package
CESM	Community Earth System Model
CMAQ	Community Multiscale Air Quality Modeling System
CPM	Convection Parameterization Model
CRM	Convection Resolving Model
CSI	Critical Success Index
DA	Data Assimilation
DMS	Dimethylsulfide
EMC	NWS Environmental Modeling Center
EnKF/4DVAR	Ensemble Kalman filter / four-dimensional variational
ETS	Equitable Threat Score
FAA	Federal Aviation Administration/U.S. Department of Transportation
FV3 LAM	Finite Volume Cubed Sphere - Limited Area Model
FV3-GFS	Finite Volume Cubed Sphere - Community Multiscale Air Quality
GEFS	Global Ensemble Forecast System
GEOS-Chem	Goddard Earth Observing System - Chemistry
GF	Grell-Freitas convection scheme
GFS	NCEP Global Forecast System model
GOCART	Goddard Chemistry Aerosol Radiation and Transport model
grdpts	gridpoints
GWD	Gravity Wave Drag
GWES	Global Wave Ensemble System
GWM	Global Wave Model
HAFS	Hurricane Analysis and Forecast System
Hires Win	High RESolution window
HMON	Hurricanes in a Multi-scale Ocean-coupled Non-hydrostatic model
HPC	Hydrometeorological Prediction Center (within NCEP)
HREF	High Resolution Ensemble Forecast
HRRR	High-Resolution Rapid Refresh model
HRRR CNT	HRRR Control
HRRRDAS	HRRR Data Assimilation System
HRRRE	High-Resolution Rapid Refresh Model scaled to a small region or domain
HRRRNEST	High-Resolution Rapid Refresh Ensemble

HWRF	Hurricane Weather Research and Forecasting model
ICICLE	In-Cloud ICing and Large-drop Experiment
IMPACTS	Investigation of Microphysics and Precipitation for Atlantic Coast-Threatening Snowstorms
INCR	Increment
JCSDA	Joint Center for Satellite Data Assimilation
JEDI	Joint Effort for Data assimilation Integration
K	Kelvin
LAM	Limited Area Model (formerly SAR)
LCL	Local
LES	Large-Eddy Simulation
LS GWD	large scale gridded weather data
LSM	Land-Surface Model (parameterization)
LW	longwave
MAE Impr	Mean absolute error improvement
MIN	minimum
MIT/LL	Massachusetts Institute of Technology - Lincoln Laboratory
MOA	Memorandum of Agreement
MPAS	Model for Prediction across Scales (NCAR global model)
MYNN-EDMF	Mellor–Yamada–Nakanishi–Nino Eddy Diffusivity-Mass Flux
NAM	North American Mesoscale Forecast System
NCAR	National Center for Atmospheric Research
NCEP	NOAA's National Centers for Environmental Prediction
NOAA	National Oceanic and Atmospheric Administration
Noah	LSM Noah land-surface model (used widely in WRF and many NCEP models)
Noah-MP	LSM Noah multi-parameterization land surface model
NOHRSC	National Operational Hydrologic Remote Sensing Center
NOHRSC - HRRR	National Operational Hydrologic Remote Sensing Center - HRRR
NSSL	National Severe Storm Laboratory
NWP	Numerical Weather Prediction
O	order of magnitude
OU/CAPS	Center For Analysis and Prediction of Storms/ University of Oklahoma
PBL	Planetary Boundary Layer
PBLH	Planetary Boundary Layer Height
POD	probability of detection
pp10	unspecified unspecified particulate matter that is 10 micrometers and smaller
pp25	unspecified particulate matter that is 2.5 micrometers and smaller
prepbufr	a format used to process observational data for assimilation into the various NCEP analyses
PSL	Physical Sciences Laboratory
QPF	Quantitative Precipitation Forecast
RAP	Rapid Refresh model
RASS	Radio Acoustic Sounding System
RMS/RMSE	Root-Mean-Square Error
RRFS R/T	one minus False Alarm Rate
RRTMG	Rapid Radiative Transfer Model for GCMs
RTMA	Real-Time Mesoscale Analysis

Sfc	surface
SFO	San Francisco Airport
SLW	Supercooled Liquid Water
SMAP	Soil Moisture Active Passive
SNOD - HRRR	Snow Depth - High-Resolution Rapid Refresh
SPC	Storm Prediction Center (within NCEP)
SREF	Short Range Ensemble Forecast
SS GWD	small scale gridded weather data
SW	shortwave
UAS	Unmanned Aircraft System
UFS	Unified Forecast System
UTC	Coordinated Universal Time
VORTEX-SE	Verification of the Origins of Rotation in Tornadoes EXperiment-Southeast
WCOSS	Weather and Climate Operational Supercomputing System
WFIP	Wind Forecast Improvement Project
WoF/WoFS	Warn-On Forecast/Warn-on-Forecast System – OAR research project