

GSL Acronym List - Advanced Technology Section

Acronym	Definition
AI	Artificial Intelligence
AQPI	Advanced Quantitative Precipitation Information
AR	Atmospheric River
AWIPS-II	Advanced Weather Interactive Processing System
BAMS	Bulletin of the American Meteorological Society
CA	California
CCPP	Common Community Physics Package
CIRA	Cooperative Institute for Research in the Atmosphere (CIRA at Colorado State Univ.)
CLARUS	Road weather observations database at the Federal Highways Administration
CoSMoS	Coastal Storm Modeling System
CPC	Climate Prediction Center (an NCEP center)
CPU	Central Processing Unit
CRTM	Community Radiative Transfer Model
dask	Software package https://dask.org/
DOE	U.S. Department of Energy
DOT	Department of Transportation
DWR	California Department of Water Resources
ECMWF	European Centre for Medium-Range Weather Forecasts
EMC	NWS Environmental Modeling Center
FRP	Fire radiative power
FV3	Finite Volume Cubed Sphere model
GDC	Global Data Center
GeoFLOW	GeoFLuid Object Workbench
GFDL	Geophysical Fluid Dynamics Laboratory
GOES	Geostationary Operational Environmental Satellite
GPU	Graphics Processing Unit
GSI	Gridpoint Statistical Interpolation data assimilation system
HADS	Hydrometeorological Automated Data System
HF-ASOS	high frequency-Automated Surface Observing System
HPC	Hydrometeorological Prediction Center (within NCEP)
HR	heating rate
IDP	NOAA's Integrated Dissemination Program
IDSS	Impact-based Decision Support Services
Intel-MIC	Intel® Many Integrated Core Architecture
JEDI	Joint Effort for Data assimilation Integration
LED	light emitting diode
MADIS	Meteorological Assimilation Data Ingest System
ML	Machine Learning
MPAS	Model for Prediction across Scales (NCAR global model)
MPI	Message Passing Interface -- HPC standard for distributed memory programming
MRMS	Multi-Radar/Multi-Sensor (national radar data merger system)
MSE	Mean Squared Error
NASA	National Aeronautics and Space Administration

NCAR	National Center for Atmospheric Research
NCEP	NOAA's National Centers for Environmental Prediction
NESDIS	National Environmental Satellite, Data & Information Services
NGGPS	Next-Generation Global Prediction System
NOAA	National Oceanic and Atmospheric Administration
NRL	Naval Research Laboratory
NWS	National Weather Service (NOAA)
QCed	Quality Controlled
R&D	Research and Development
R2O	Research to Operations
RRFS	Rapid Refresh Forecast System
RWIS	Road Weather Information System
SOS	Science On a Sphere®
SOSX	SOS Explorer™
UFS	Unified Forecast System
UK Met Office/UKmet	United Kingdom's national weather service
WAVE	Weather Archive and Visualization Environment
WMO	World Meteorological Organization
xarray	Software package http://xarray.pydata.org/en/stable/