Acronyms Used in Lab Review Presentations

AABW Antarctic Bottom Water

AAIW Antarctic Intermediate Water

ACCESS Australian Community Climate and Earth System Simulator

ACE Ai2 Climate Emulator

AEP Annual Exceedance Probability

AERO Aerosol

AEROCOM Aerosol Comparison
AFI Air Freezing Index
AI Artificial Intelligence

Ai2 Allen Institute for Artificial Intelligence

AM4 Atmospheric Model version 4

AM4VR Variable-Resolution Global Chemistry-Climate Model

AM5 Atmospheric Model version 5

AMOC Atlantic Meridional Overturning Circulation
AMSU-A Advanced Microwave Sounding Unit-A

AOML Atlantic Oceanographic & Meteorological Laboratory
APARC Atmospheric Processes And their Role in Climate

AR Atmospheric River

ASCE American Society of Civil Engineers
ATMS Advanced Technology Microwave Sounder

AWS Amazon Web Services

B-SOSE Biogeochmical Southern Ocean State Estimate

BBL Bottom Boundary Layer
BGC biogeochemistry
BIAS Frequency Bias

BIL Bipartisan Infrastructure Law

CAM-FV3 FV3-based Community Atmosphere Model

CBED Carbon, Benthic Ecosystems, and Diagenesis model

CDNC Cloud Droplet Number Concentration

CDR Carbon Dioxide Removal

CEFI Climate, Ecosystems, and Fisheries Initiative

CERES-EBAF Clouds and Earth's Radiant Energy Systems - Energy Balanced and Filled

CESM Community Earth System Model (NCAR)

CICERO Norwegian Centre for International Climate and Environmental Research

CIMES Cooperative Institute for Modeling the Earth System

Cls Cooperative Institutes
CM4 Coupled Model version 4
CM5 Coupled Model version 5

CM5-HR High resolution configuration of CM5
CM5-LR Low resolution configuration of CM5

CMIP6 Coupled Model Intercomparison Project Phase 6
CMIP7 Coupled Model Intercomparison Project Phase 7

CMS (U.S.) Climate Modeling Summit

COARE Coupled Ocean-Atmosphere Response Experiment bulk algorithm
COBALT Carbon, Ocean Biogeochemistry, and Lower Trophics model

CONUS Contiguous United States

COSIMA Consortium for Ocean-Sea Ice Modelling in Australia

CPC (NOAA) Climate Prediction Center CPO (NOAA) Climate Program Office

CPSD Cloud hydrometeor Particle Size Distribution

CPT Climate Process Team

CRADA Cooperative Research And Development Agreement

CrIS Cross-track Infrared Sounder

CRTM Community Radiative Transfer Model

CSL Chemical Sciences Laboratory
CVP Climate Variability and Prdictability
CWA Central Weather Administration (Taiwan)

CWG (NOAA) Climate Working Group

DA Data Assimilation

DECK Diagnostic, Evaluation and Characterization of Klima

DIMOSIC Different Models, Same Initial Conditions

DJF December January Febuary
DOC US Department of Commerce
DOD US Department of Defense
DOE US Department of Energy

DOE HFTO US DOE Hydrogen and Fuel Cell Technologies Office

DOI Digital Object Identifier
DPC Double Plume Convection

DYAMOND DYnamics of the Atmospheric general circulation Modeled On Non-hydrostatic Domains

EC Short for ECMWF

ECDA Ensemble Coupled Data Assimilation

ECMWF European Center for Medium-Range Weather Forecasts

EDMF Eddy Diffusivity Mass Flux
EDMF Eddy-Diffusivity Mass-Flux
EMC Environmental Modeling Center
ENSO EI Niño / Southern Oscillation
EPA Environmental Protection Agency
ePBL Energetic Planetary Boundary Layer
EPIC (NOAA) Earth Prediction Innovation Center

ERA5 ECMWF Reanalysis version 5

ERB Earth Radiation Budget

ESD Empirical Statistical Downscaling
ESF Exponential Sum Fit technique
ESGF Earth System Grid Federation

ESM Earth System Model

ESM4.1 Earth System Model version 4.1
ESM4.5 Earth System Model version 4.5
ESMG Earth System Modeling Group

ETS Equitable Threat Score

FA flux adjustment (e.g. for bias correction)

FAFMIP Flux-anomaly-forced model intercomparison project

FAIR Findable Accessible Interoperable Resusable (data principles)

FAR First Assessment Report

FCST Forecast

FEISTY Fisheries Size and Functional Type Model
FGOALS Flexible Global Ocean-Atmosphere-Land System

FIU Florida International University

FLOR Forecast-oriented Low Ocean Resolution Model

FMS Flexible Modeling System

FRE FMS (Flexible Modeling System) Runtime Environment

FV3 Finite-Volume Cubed-Sphere Dynamical Core

FV3net Neural-Network enabled FV3GFS atmospheric model

FY Fiscal Year

GCM General Circulation Model

GEFS Global Ensemble Forecast System
GEOS Goddard Earth Observing System

GFS Global Forecast System

GMAO (NASA) Global Modeling and Assimilation Office

GMSL Global Mean Sea Level

GOES-16 Geostationary Operational Environmental Satellite-16

GPSRO GPS Radio Occultation
gridMET gridded meteorological data
GSL Global Systems Laboratory
GSRM Global Storm Resolving Model

HAFS Hurricane Analysis and Forecast System
HHE Heat Health Emergency (Philadelphia)

HiFLOR High-resolution Forecast-oriented Low Ocean Resolution Model

HPC High-Performance Computing
HPD Hourly Precipitation Data

hursmin daily minimum relative humidity (2m)

HWRF Hurricane Weather Research and Forecasting model

HWT NOAA Hazardous Weather Testbed

HyVIS Hydrogen Research Virtual Seminar (UK NERC)
IASI Infrared Atmospheric Sounding Interferometer

IFS (ECMWF) Integrated Forecast System

iOM Ocean Model with Ice Sheets

IPCC Intergovernmental Panel on Climate Change
JCSDA Joint Center for Satellite Data Assimilation

JJA June July August

JTTI Joint Technology Transfer Initiative
KID Kinematic Iceberg Dynamics
KIM Korean Integrated Model

LASG State Key Laboratory of Numerical Modeling for Atmospheric Sciences and Geophysical Fluid Dynamics

LEGEND Learning Excellence and Good Examples for New Developers (Act)

LES Large Eddy Simulation
LM4 GFDL Land Model, version 4

LMARS Low Mach number Approximate Riemann Solver

LME Large Marine Ecosystem
LSM Land-Surface Model

M2LInES Multiscale Machine Learning In Coupled Earth System Modeling

MAM March April May

MAPP Modeling, Analysis, Predictions and Projections

MCS Mesoscale Convective System MDTF Model Diagnostics Task Force

MERRA Modern-Era Retrospective analysis for Research and Applications

MG2 Morrison-Gettelman microphysics version 2

MJO Madden-Julian Oscillation

ML Machine Learning
MOM Modular Ocean Model

MOM6 Modular Ocean Model version 6

MOM6-IS Modular Ocean Model version 6 with Ice Sheet

MOP Manuals of Practice

MPAS Model for Prediction Across Scales

MRI Mean Recurrence Interval

MW Microwave

NAO North Atlantic Oscillation; or NOAA Administrative Order

NARR North American Regional Reanalysis

NASA National Aeronautics and Space Administration

NCA National Climate Assessment

NCAR
National Center for Atmospheric Research
NCCOS
National Centers for Coastal Ocean Science
NCEI
National Centers for Environmental Information
NCEP
National Centers for Environmental Prediction

NEFSC Northeast Fisheries Science Center

NESDIS National Environmental Satellite, Data, and Information Service

NHC National Hurricane Center

NIHHIS National Integrated Heat and Health Information System

NIST
National Institute of Standards and Technology
NMFS
(NOAA) National Marine Fisheries Service
NMME
North American Multi-Model Ensemble

NOAA National Oceanic and Atmospheric Administration

NOAA NODD NOAA Open Data Dissemination

NOAH NCEP-Oregon State University-Air Force-Hydrologic Research Lab

NOHRSC National Operational Hydrologic Remote Sensing Center

NOS (NOAA) National Ocean Service

NOS-COOPS NOS Center for Operational Oceanographic Products and Services

NRC National Research Council

NSSL National Severe Storms Laboratory

NWS National Weather Service

OAR (NOAA) Oceanic and Atmospheric Research

OM4 Ocean Model version 4
OM5 Ocean Model version 5

OmB Observation minus background/first guess
PARR Public Access to Research Results

PBL Planetary Boundary Layer
PC Pearson Correlation
PDO Pacific Decadal Oscillation
PDV Pacific Decadal Variability
POD Process-oriented Diagnostics
PSD Particle Size Distribution

PSL (NOAA) Physical Sciences Laboratory

QBO Quasi-Biennial Oscillation
QDM Quantile Delta Mapping
R&D research and development
R2O Research to Operations
R2S Research to Services

R2X Research to (X = Applications, Services, Operations)

RCE Radiative Convective Equilibrium
RCP Representative Concentration Pathway

RK Rotstayn-Klein microphysics
RMSE Root Mean Squared Error
RRFS Rapid Refresh Forecast System

RRTMGP Rapid Radiative Transfer Model for General circulation model applications-Parallel

RTE Radiative Transfer for Energetics
RTOFS Real Time Ocean Forecast System
SAB (NOAA) Science Advisory Board

S2S Subseasonal to seasonal SAL Self-Attraction and Loading

ScenarioMIP Scenario Model Intercomparison Project
SEA Simplified Exchange Approximation
SEI Structural Engineering Institute
SFE Spring Forecasting Experiment
SFS Seasonal Forecast System

SGS Subgrid-Scale

SHIELD System for High-resolution prediction on Earth-to-Local Domains

SIE Sea-Ice Extent

SIPN Sea Ice Prediction Network
SIS2 Sea Ice Simulator version 2

SO Southern Ocean

SOCCOM Southern Ocean Carbon and Climate Observations and Modeling project

SOFIA Southern Ocean Freshwater Input from Antarctica

SOM Slab Ocean Model

SON September October November SOSE Southern Ocean State Estimate

SPEAR Seamless System for Prediction and EArth System Research

SPMW Subpolar Mode Water
SRM Solar Radiation Modification

SROCC Special Report on the Ocean and Cryosphere in a Changing Climate

SSA Single Scattering Albedo

SSPxxx Shared Socioeconomic Pathway

SST Sea Surface Temperature

SURFEX-TEB Surface Externalisée (in French) - Town Energy Balance model

TAO Tropical Atmosphere Ocean moored buoy array (Pacific)

tasmax daily maximum air temperature (2m)

TC Tropical Cyclone

TEPEX TPOS Equatorial Pacific Experiment

TIPMIP Tipping Point Model Intercomparison Project

TKE Turbulent Kinetic Energy

TOAR Tropospheric Ozone Assessment Report
TPOS Tropical Pacific Observing System

UDA Unified Data Archive
UFS Unified Forecast System

UKMO United Kingdom Meteorological Office

UMD University of Maryland

USGS United States Geological Survey

VolRes-RE Volcanic Response Readiness Exercise

WaF Weather and Forecasting

WCRP World Climate Research Program WMO World Meteorological Organization

WOA World Ocean Atlas WW3 WaveWatch III