Acronym and Definition List for 2015 National Severe Storms Laboratory Review

ARRC	University of Oklahoma's Advanced Radar Research Center
AERI	Atmospheric Emitted Radiance Interferometer
A&GS	
AP	Anomalous Propagation (ground clutter echoes in radar reflectivity observations under a superrefractive atmospheric condition)
ARPS	Advanced Regional Prediction System
ASOS	Automated Surface Observation Station
ATD	Advanced Technology Demonstrator. A dual-polarimetric MPAR demonstrator planned as an upgrade to the NWRT PAR
AWIPS	Advanced Weather Information Processing System
BAMS	Bulletin of the American Meteorological Society
BL	Boundary Layer
CAPS	Center for Analysis and Prediction of Storms (OU)
CG	Cloud to Ground lightning
CI	Convection (or Convective) Initiation
CIMSS (WI)	Cooperative Institute for Meteorological Satellite Studies (Univ of Wisconson)
CLAMPS	Collaborative Lower Atmospheric Mobile Profiling System
CPPAR	Cylindrical Polarized Phased Array Radar
CRADA	Cooperative Research And Development Agreement
DC3	Deep Convective Clouds and Chemistry Experiment
DHS	Department of Homeland Security
DOD	Department of Defense
DWL	Doppler wind lidar
ESRL	Earth System Research Laboratory
EMC	Environmental Modeling Center (NOAA/NCEP)
ESSL	European Severe Storms Laboratory
ENTLN	Earth Networks Total Lightning Network
FAA	Federal Aviation Administration
FACETs	Forecasting a Continuum of Environmental Threats. A next-generation watch/warning paradigm being jointly developed by NSSL, GSD and NWS.
FAR	False Alarm Rate
FID	Final Investment Decision (FAA acquisition term)
FRDD	NSSL's Forecast Research and Development Division

GFS	Global Forecast System
GLERL	Great Lakes Environmental Research Laboratory (part of NOAA/OAR)
GLM	Geostationary Lightning Mapper (instrument on GOES-R series satellites)
GSD	Global Systems Division of Environmental Systems Research Laboratory, Boulder, CO.
HCA	Hydrometeor Classification Algorithm
HHC	Hybrid Hydrometeor Classification
HSDA	Hail Size Detection Algorithm
HWT	Hazardous Weather Testbed
HRRR	High-Resolution Rapid Refresh model developed by ESRL/GSD.
IARD	Investment Analysis Readiness Decision (FAA acquisition term)
IID	Initial Investment Decision (FAA acquisition term)
IMAGe	Institute for Mathematics Applied to Geosciences (NCAR)
IPCC	International Panel on Climate Change
ISD	In Service Decision (FAA acquisition term)
KTLX	NWS Radar located northwest of Norman, OK
LMA	Lightning Mapping Array (ground-based system to detect lightning channels in 3D)
MESH	Maximum Expected Hail Size
MIT/LL	Massachusetts Institute of Technology - Lincoln Laboratory
MOU	Memorandum of Understanding
MPAR	Multifunction Phased Array Radar
MPARSUP	MPAR Software Upgrades Project
MPEX	Mesoscale Predictability Experiment
mPING	Meteorological Phenomena Identification Near the Ground
MMM	Mesoscale and Microscale Meteorological Division (NCAR)
MRMS	Multi-Radar/Multi-Sensor system for integrating, displaying and mining data from multiple observational platforms.
MWR	Microwave Radiometer
MYRORSS	Multi-Year Reanalysis of Remotely Sensed Storms
NAM	North American Mesoscale model
NCEP	National Center for Environmental Prediction (NOAA)
NESDIS	National Environmental Satellite, Data, and Information Service (NOAA)
NEXRAD	Next Generation Radar. The network of weather surveillance radars in the US, operated by the NWS
NSE	NSSL Stormscale Ensemble

NSWRC	NextGen Surveillance and Weather Radar Capability. An FAA program to replace their terminal weather and terminal aircraft tracking radars.
NWC	National Weather Center
NWRT	National Weather Radar Testbed
NWP	Numerical Weather Prediction
NWS	National Weather Service
O2R	Operations to Research
OKC	Oklahoma City
OSSE	Observation System Simulation Experiment
OST	Office of Science and Technology
OU	University of Oklahoma
OUN	National Weather Service Office located in Norman OK at National Weather Center
OWAQ	Office of Weather and Air Quality
PAR	Phased Array Radar
PARISE	Phased Array Radar Innovative Sensing Experiment
PECAN	Plains Elevated Convection at Night (experiment)
PECASE	Presidential Early Career Award for Scientists and Engineers
POD	Percent of Detection
PSS	Peirce Skill Score
PSU	Penn State University
QPE	Quantitative Precipitation Estimation
R2O	Research to Operations
R2A	Research to Applications
RAP	Rapid Refresh Model
RFC	River Forecast Center (part of NWS)
ROC	Radar Operations Center
RRDD	NSSL's Radar Research and Development Division
RWP	Radar wind profiler
SHAVE	Severe Hazards and Verification Experiment
SLEP	Service Life Extension Program
SPC	Storm Prediction Center
TDS	Tornadic Debris Signature
THW	Temperature, Humidity, Wind
Tw	Wet-bulb Temperature

UH	Updraft Helicity
USAF	United States Air Force
VCP	Volume Control Pattern
VIL	Vertically Integrated Liquid
VORTEX2	Verification of the Origins of Rotation in Tornadoes Experiment, second phase
WDSS-II	Warning Decision Information System - Integrated Information
WoF	Warn-on-Forecast
WRDD	NSSL's Warning Research and Development Division
WRF	Weather Research and Forcasting (numerical weather prediction model)
WSFO	Weather Service Forecast Office (part of NWS)
Z	Reflectivity (typically horizontal polarization)
ZDR	Diffential Reflectivity (ratio of horizontal and vertical polarizations)
ptype	precipitation type
3DVAR	Three-dimensional variational data analysis (method for analyzing observations)
Z-R relationship	The empirical relationship to convert radar reflectivity (Z) to precipitation rate (R)
QC	Quality Control
CoCoRaHS	Community Collaborative Rain, Hail, and Snow Network - a volunteer network of backyard weather observers working together to measure and map precipitation (rain, hail and snow) in their local area.