

| Title: NEON Acronym List    |                       | Date: 07/22/2014 |
|-----------------------------|-----------------------|------------------|
| NEON Doc #: NEON.DOC.000008 | Author: Stephen Craft | Revision: H      |

## **NEON ACRONYM LIST**

| PREPARED BY   | ORGANIZATION | DATE       |
|---------------|--------------|------------|
| Stephen Craft | SE           | 10/15/2013 |

| APPROVALS           | ORGANIZATION | APPROVAL DATE |
|---------------------|--------------|---------------|
| Jennifer DeNicholas | СМ           | 07/22/2014    |
|                     |              |               |
|                     |              |               |
|                     |              |               |

| RELEASED BY   | ORGANIZATION | RELEASE DATE |
|---------------|--------------|--------------|
| Stephen Craft | PSE          | 07/22/2014   |

See configuration management system for approval history.

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# **Change Record**

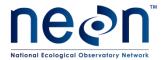
| REVISION    | DATE         | ECO#                     | DESCRIPTION OF CHANGE                   |           |                                  |
|-------------|--------------|--------------------------|---|-----------|----------------------------------|
| Α           | 05/15/2009   |                          | Initial Release                         |           |                                  |
| A.1         | 10/13/2009   |                          | Addition of acronyms                    |           |                                  |
| В           | 10/15/2009   | NEON.MGMT.NPR.000184.CRE | CCB approved submitted changes          |           |                                  |
| С           | 10/13/2010   | NEON.MGMT.NPR.000249.CRE | Updates. See CRE for details.           |           |                                  |
| D           | 02/14/2011   | ECO-00039                | Revised to include terms used in the CM |           |                                  |
| D           |              |                          | system.                                 |           |                                  |
| E           | E 09/26/2011 | 09/26/2011 ECO-00283     | Update to new document numbers and      |           |                                  |
| _           | 09/20/2011   | 100-00283                | template.                               |           |                                  |
| F           | 05/24/20126  |                          | 05/24/20136 ECO-01230                   | ECO-01230 | Added miscellaneous acronyms and |
| 05/24/20136 |              | 100-01230                | corrected minor typos.                  |           |                                  |
| G           | 10/17/2013   | ECO-01453                | Added miscellaneous acronyms. Switched  |           |                                  |
| J           | 10/1//2013   | 100-01433                | to latest released template.            |           |                                  |
| Н           | 07/17/2014   | ECO-02142                | Additions from SCI, PUR, CVAL, ENG, and |           |                                  |
|             | 07/17/2014   | 100-02142                | PSE.                                    |           |                                  |



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## Numeric

| 1-D | One-dimensional   |
|-----|-------------------|
| 2-D | Two-dimensional   |
| 3-D | Three-dimensional |



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#### A

A/D Analog to Digital Conversion

A/E Architect and Engineer

AAM American Association of Museums
AAT-S Aspirated Air Temperature – Single
AAT-T Aspirated Air Temperature – Triple

ABL Allocated Baseline

ABL Atmospheric Boundary Layer

AC, a.c. Alternating Current

AC Actual Cost
ACK Acknowledge

ACS American Chemical Society
ACWP Actual Cost of Work Performed

AD Applicable Document
AD Architecture Document

AD Assistant Director

ADC Analog to Digital Converter
ADL Applicable Documents List

ADM Administration

AD[NN] Applicable Document No. NN ADP Acceptable Data Package

ADR Applicable Discrepancy Report(s)
ADXX Applicable Document No. XX

AFS AIRS Facility Subsystem
AGB Above Ground Biomass
AGL Above Ground Level

AGU American Geophysical Union

Al Action Item

AIBS American Institute of Biological Sciences

AIL Action Item List

AIS Aquatic Instrumentation System
AIS Automated Information System

AIV Assembly, Integration and Verification
AIWG Aquatic Instrumentation Working Group

ALC Automatic Level Control

ALMA Atacama Large Millimeter Array

AM Asset Management

AMM Asset and Maintenance Management



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ANPP Above-Ground Net Primary Productivity
ANSI American National Standards Institute

AOP Airborne Observation Platform
AOS Aquatic Observation System

API Application Programming Interface

APR Automatic Power Reduction

APWA American Public Works Association

AQ/S Aquatic/STREON

AQU Aquatic

ARM Atmospheric Radiation Measurement Program
ARMI Amphibian Research and Monitoring Initiative

ARS Agricultural Research Service

ARVI Atmospherically Resistant Vegetation Index

ASCII American Standard Code Information Interchange

ASIC Application-Specific IC

ASL Above Sea Level

ASTC Association of Science-Technology Centers

ASTER Advanced Spaceborne Thermal Emission and Reflection Radiometer

ASTM American Society for Testing and Materials
ATAG Authoring Tool Accessibility Guidelines

ATB Aquatic Test Bed

ATBD Algorithm Theoretical Basis Document
ATCOR Atmospheric and Topographic Correction

ATS Aspirated Temperature Single
ATT Aspirated Temperature Triple

ATV All-Terrain Vehicle

ATWG Aquatic Technical Working Group

AUI Associated Universities, Inc.

AV All-Views

AVHRR Advanced Very High Resolution Radiometer
AVIRIS Airborne Visible/Infrared Imaging Spectrometer

AWP Annual Work Plan



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B

B Biodiversity

BAC Budget at Completion

BASIN Biogeosphere-Atmosphere Stable Isotope Network

BBS Breeding Bird Survey
BCR Budget Change Request
BCR Build Content Review

BCWP Budgeted Cost of Work Performed
BCWS Budgeted Cost of Worked Scheduled

BDV Business and Development

BFA Business Finance and Accounting

BIO Directorate for Biological Science (NSF)
BLAST Basic Local Alignment Search Tool
BLM Bureau of Land Management

BNPP Below-Ground Net Primary Productivity

BOA Basic Ordering Agreement
BOD Biological Oxygen Demand

BOD Board of Directors
BOE Basis of Estimate

BOLD Barcode of Life Database

BOM Bill of Materials

BOREAS Boreal Ecosystem-Atmosphere Study

BP Barometric Pressure

BPCP Business Process Contingency Plan
BPEL Business Process Execution Language

BRDF Bidirectional Reflectance Distribution Function

BSc Bachelor of Science

BSCS Biological Science Curriculum Study

BSL3 Biosafety Level 3

BSR Baseline Schedule Review

BSRN Baseline Surface Radiation Network

BTU British Thermal Unit



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C

C&DS Control and Data System C+C, C&C Command and Control

CCC, C<sup>3</sup>, C Command, Control, and Configuration

CA Composition Analyzers
CA Cooperative Agreement
CAD Computer Aided Design
Cal/Val Calibration/Validation

CAN Serial bus by National Instruments
CAO Carnegie Airborne Observatory

CAP Capital Acquisition Plan
CAP Central Arizona Phoenix
CAS Common Application Service
CAS Cost Accounting Standard

CASE Computer Aided Software Engineering
CASTNET Clean Air Status and Trends Network

CBC Christmas Bird Count

CBI Conservation Biology Institute

CC Continuous Cropping
CCB Change Control Board

CCB Configuration Control Board

CCGG Carbon Cycle Greenhouse Gases (NOAA Global Monitoring Division)

CDC Centers for Disease Control
CDL Commercial Driver's License
CDL Configuration Document List

cDOM Colored (or Chromophoric) Dissolved Organic Matter

CDR Critical Design Review
CDS Common Data Service
CE European Conformance
CEA Chief of External Affairs

CENS Center for Embedded Networked Sensing

CEO Chief Executive Officer

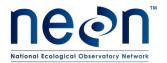
CEOAF Cyberinfrastructure for Environmental Observation, Analysis and Forecasting

CEOS Committee on Earth Observation Satellites

CEP Cost Estimating Plan

CEPE Chief of Education and Public Engagement

CEQ Council on Environmental Quality



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CER Cost Estimating Relationship

CESQG Conditionally Exempt Small Quantity Generator

CFO Chief Financial Officer

CFR Code of Federal Regulations

CfT Call for Tenders
Cl Configured Item
Cl Cyberinfrastructure

CIAAW Commission on Isotopic Abundances and Atomic Weights

CIDL Configuration Item Data List
CIDL Configured Items Data List

CIDU Conference on Intelligent Data Understanding (NASA)

CIL Configuration Item Labeling
CIN Configuration Item Number
CIP Construction in Process
CLA Collections & Lab Analysis

CLEANER Collaborative Large-Scale Engineering Analysis Network for Environmental Research

CLM Community Land Model
CLOB Character Large Object
CM Configuration Management
CM Corrective Maintenance

CMES Common Message and Event System

CMM Capability Maturity Model

CMMS Computer Maintenance Management System

CMP Configuration Management Plan
CMS Configuration Management System

CO Certificate of Occupancy

COB Close of Business

COD Chemical Oxygen Demand

CODMAC Committee on Data Management, Archiving, and Computing

COG Clusters of Orthologous Groups

COGS Cost of Good Sold

COM Communication and Web
CONOPS Concepts of Operations

CONST Construction

CONUS Continental United States
COO Chief Operating Officer

CORBA Common Object Request Broker Architecture

CoS Chief of Science
CoS Class of Service



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COTS Commercial Off-the-Shelf

CPER Central Plains Experimental Range

CPI Cost Performance Index

CPLD Complex Programmable Logic Device
CPR Cardio Pulmonary Resuscitation

CPR Cost Performance Report
CPU Central Processing Unit

CRE Change Request

CRISM Compact Reconnaissance Imaging Spectrometer for Mars

CRS Coordinate Reference System

CRT Cathode Ray Tube

CRT Certificate
CS Citizen Science

CSCI Computer Software Configuration Items

CSI Cyber and software infrastructure

CSR Change Status Report
CSS Cascading Style Sheet
CSU Channel Service Unit

CSV Commissioning and Science Verification

CTFS Center for Tropical Forest Science
CTI Compound Topographic Index

CUAHSI Consortium of Universities for the Advancement of Hydrologic Science Inc.

CV Coefficient of Variation

CV Cost Variance

CVALLA Calibration, Validation, and Audit Lab at the Longmont Airport

CVAL Calibration and Validation Laboratory

CWD Coarse Woody Debris
CYxx Calendar Year xx
CYI Cyberinfrastructure



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D

D&D Design and Development

DAA Department Administrative Assistants
DAAC Distributed Active Archive Center

DAC Digital to Analog Converter

DAP Dryland Agroecosystems Project

DAQ Data Acquisition

DAR Document Approval Request
DAS Data Acquisition Systems

DB Database

dBA Decibel, A Scale

DBH Diameter at Breast Height

DC Dielectric Constant
DC Direct Current

DCE Deputy Chief of Education

DCM Development Coordination Meeting

DCS Document Control Specialist

DCS Domain Chief Scientist
DD Design Document
DDP Detailed Design Phase
DDP Design Document Package
DEM Digital Elevation Map/Model

DEMARC Demarcation Point

DFIR Double Fence Intercomparison Reference
DFMEA Design Failure Mode Effects Analysis

DHHS Department of Health and Human Services

DHP Digital Hemispherical Photography

DI Distilled Water

DIC Dissolved Inorganic Carbon
DIN Dissolved Inorganic Nitrogen

DLNR Department of Land & Natural Resource

DMM Digital Multi-Meter
DMZ Demilitarized Zone

DNR Division of Natural Resources

DO Dissolved Oxygen

DoC Director of Computing

DOC Dissolved Organic Carbon

DOC Department of Commerce



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DOD Department of Defense

DoDAF Department of Defense Architecture Framework

DOE Department of Energy
DOM Dissolved Organic Matter

DOORS Dynamic Object-Oriented Requirements System

DOT Department of Transportation

DP, DPS Data Products

DPC Data Processing Cluster

DPC Director, Procurement & Contracts
DPM Data Processing and Manufacturing

DPM Deputy Project Manager

DPMS Data Processing Management System

DPT Data Product Team

DQM Data Quality Management

DRD Document Requirement Description

DRD-XX Document Requirement Definition of Document XX

DRL Document Requirement(s) List
DRM Distributed Resource Manager

DRP Disaster Recovery Plan
DRR Data Receiving and Routing

DS Domain Scientists

DSDV Design and Development

DSECC Domain Science and Education Coordination Committee

DSF Domain Support Facility
DSL Digital Subscriber Line
DSN Design Document
DSS Data Storage System
DSU Data Service Units

DTS Distributed Temperature Sensing

DVU Design Verification Unit

DWGXX Applicable Drawing No. XX

DWP Disney Wilderness Preserve



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E

EA Environmental Assessment

EA/CatEx Environmental Assessment Categorical Exclusion

EAC Estimate at Completion

EAM Enterprise Asset Management

EC Eddy-Covariance

ECO Enterprise Change Order
ECR Enterprise Change Request
ECS Experiment Chief Scientist

EC-SE Eddy Covariance Storage Exchange
EC-TE Eddy-Covariance Turbulent Exchange
EDM Electronic Documentation Management
EDMS Electronic Document Management System

EDNA USGS Elevation Derivatives for National Applications

EDU Education and Outreach
EE Ecosystem Exchange Package
EFD, EFDR Engineering Final Design Review
EH&S, EHS Environmental, Health & Safety

EI Education and Interface
EIS Environmental Impact Study

ELISA Enzyme-Linked Immunosorbent Assay

ELSF Effective Line Spread Function

EMAP Environmental Monitoring & Assessment Program

EMC Electromagnetic Capability
EMD Empirical Mode Decomposition
EMI Electromagnetic Interference

EML Ecological Metadata Language or Ecological Markup Language

EMS Environmental Monitoring System

ENB Engineering Notebook

ENG Engineering

ENMS Enterprise Network Management System

ENSO El Niño Southern Oscillation EO, E&O Education and Outreach

EOI Ecosystem and Organism Integration Package

EOL Earth Observing Laboratory (NCAR)

EOS Earth Observing System

EOTRR NEON Education and Outreach Tiger Team Report

EP Ecological Plots



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EP Ecosystem Productivity

E-MAP Environmental Monitoring and Assessment Program (EPA)

EPA Environmental Protection Agency
EPSG European Petroleum Survey Group

ER Ecosystem Respiration

ERF Environmental Response Function
ERP Enterprise Resource Planning
ESA Ecological Society of America

ESD Electric Static Discharge

ESRL Earth System Research Laboratory (NOAA)

ET Evapotranspiration
ETC Estimate to Complete

EV Earned Value

EVI Enhanced Vegetation Index

EVMS Earned Value Management System

EWT Equivalent Water Thickness



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F

F Forested Sites

F&A Finance & Accounting
FA Final/Factory Acceptance

FAT First Article Test

FAA Federal Aviation Administration FAO Food and Agriculture Organization

FAQ Frequently Asked Question
FARn Factory Acceptance Review n

FBL Functional Baseline FBO Field Based Operator

FCA Functional Configuration Audit

FCC Federal Communications Commission

FCC, F&CC Facilities and Civil Construction

FD Field Design

FDER Final Design Evaluation Review

FDOCR Final Domain Operation Capability Review fDOM Florescent Dissolved Organic Matter

FDR Final Design Review

FDR Frequency Domain Reflectometry

FDT Field Deployment Team
FEA Finite Element Analysis
FEM Finite Element Model

FEMA Federal Emergency Management Agency

FFT Fast Fourier Transform

FGDC Federal Geographic Data Committee

FI Field Instrumentation

FIA Forest Inventory and Analysis
FIFE First ISLSCP Field Experiment

FIPS Federal Information Processing Standard

FIR Far Infra-Red

FIU Fundamental Instrument Unit

FM Factory Manual

FMEA Failure Mode Effects Analyses

FO Fiber Optic

FOCR Final Operational Capability Review

FOOCR Final Observatory Operational Capability Review

FOPS Field Operations



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FOSS Full Option Science System
FOVx Along-Track Field of View
FOVy Cross-Track Field of View

FPA Focal Plane Array

FPDER Final Production Design Evaluation Review

fPAR Fraction of Photosynthetically Active Radiation

FRU Field Replaceable Unit FSO Flight Safety Officer

FSU Fundamental Sentinel Unit

FTB Field Test Bed

FTC Field Team Component FTE Full Time Equivalent

FWHM Full Width at Half Maximum
FWS Fish and Wildlife Service

FYxx Fiscal Year xx



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G

G Grating Response
G Perennial Grass

GAAP Generally Accepted Accounting Principals

GAP Gap Analysis Program

GARP Global Association of Risk Professionals
GBIF Global Biodiversity Information Facility

Gbps Gigabits per Second

GC ISEP Grand Challenge Questions

GCE Global Change Experiment

GCOS Global Climate Observing System
GDAL Geospatial Data Abstraction Library

GEE Gross Ecosystem Exchange

GEOBON Geo Biodiversity Observation Network
GEOSS Global Earth Observing System of Systems

GEP Gross Ecosystem Productivity

GEWEX Global Energy and Water Cycle Experiment

GFCI Ground Fault Circuit Interrupter

GFI Ground Fault Interrupter

GHCN Global Historical Climatology Network
GIS Geographic Information Systems

GMD Global Monitoring Division (NOAA/ESRL)
GODM Global Organism Detection System

GOS Geospatial One-Stop

GPP Gross Primary Productivity

GPS Global Positioning Satellite or System

GSD Ground Sampling Distance

GSMNP Great Smoky Mountain National Park, Twin Creeks

GSN GCOS Surface Network
Gsps Giga Samples per Second

GTS Global Telecommunications System

GUI Graphical User Interface

GV Green Vegetation
GWP Gas/Water Partitioner



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## H

HBCU Historically Black Colleges and Universities

HBV Hepatitis B Vaccination

HDF Hierarchical Data Format

HEPA High Efficiency Particulate Air

HIV Human Immunodeficiency Virus

HLDP High-Level Data Products

HLDPG High-Level Data Products Group

HLDPMC High-Level Data Products Management Committee

HM Hazardous Materials

HMIG Hazardous Materials Identification Guide

HPC High Performance Computing
HPS Hantavirus Pulmonary Syndrome

HQ Headquarters
HR Human Resources

HSI Hispanic Serving Institutions
HTML Hyper Text Markup Language

HU Hydrologic Units

HVAC Heating, Ventilation, and Air Conditioning

HW Hardware

HYDICE Hyperspectral Digital Imagery Collection Experiment

HyspIRI Hyperspectral Infrared Imager



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I&I Instrumentation & Integration

I&T Integration and Test

I/O, IO Input/output

IACUC Institutional Animal Care and Use Committee

IAEA International Atomic Energy Agency
IANA Internet Assigned Numbers Authority

IBRCS Infrastructure for Biology at Regional to Continental Scales

IC Integrated (electronic) Circuit
ICD Interface Control Document
IDL Interactive Data Language

IDLH Immediately Dangerous to Life and Health

IDP Integrated Data Processing

IDQ Indefinite Quantity

IEC International Electrotechnical Commission

IEOS Integrated Earth Observing Systems

IFB Invitation for Bid

IFOV Instantaneous Field of View

IH Instrument Hut

IMP Integrated Master PlanIMS Integrated Master ScheduleIMU Inertial Measurement Unit

INSTAAR Institute of Arctic and Alpine Research (University of Colorado)

INT Integration

INU Inertial Navigation Unit

IOCR Initial Operational Capability Review IOSS Integrated Ocean Observing System

IP Internet Protocol

iPAR Intercepted Photosynthetically Active Radiation IPCC Intergovernmental Panel on Climate Change

IPR In-Process Review

IPS Integrated Project Schedule
IPT Integrated Project Teams

IR Infrared

IRD Interface Requirements Document

IRGA Infrared Gas Analyzer

IRMS Isotope Ratio Mass Spectrometry
ISEP Integrated Science and Education Plan



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ISLSCP International Satellite Land Surface Climatology Project

ISO International Standards Organization
ISSO Information Systems Security Officer

IT Information Technology

ITC Integral Turbulence Characteristics

ITU International Telecommunications Union

IUCN International Union for the Conservation of Nature IUPAC International Union of Pure and Applied Chemistry

IV&V Integration, Verification, and Validation



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J

JHA Job Hazard Analysis

JIT Just In Time

JPL Jet Propulsion Laboratory

JSA Job Safety Analysis
JVM Java Virtual Machine



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KEON Korea Ecological Observatory Network

KPA Key Process Areas

KPP Key Performance Parameter



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L

L1 Level 1
L2 Level 2
L3 Level 3
L4 Level 4
LAD Leo A. Daly
LAI Leaf Area Index
LAN Local Area Network

LBA Large-Scale Biosphere-Atmosphere Experiment in Amazonia

LC Local Controller
LC Location Controllers
LDC Long Distance Carrier
LEC Local Exchange Carrier
LED Light-Emitting Diode
LES Large Eddy Simulation

LHDD Location Hierarchy Definition Document

LHS Lawrence Hall of Science
LiDAR Light Detection and Ranging

LIMS Laboratory Information Management Systems

LO/TO Lockout/Tagout
LOE Level of Effort
LP Land Processes

LQG Large Quantity Generator
LRU Line-Replaceable Unit
LSF Line Spread Function
LSO Laser Safety Officer

LTER Long-Term Ecological Research Network

LUA Land Use Agreement

LUAP, LUP Land Use Analysis Package

LUE Light Use Efficiency



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#### M

M&C Monitor and Control

M&O Maintenance and Operations mAGL Meters Above Ground Level

MaNIS Mammal Networked Information System

MASL Meters Above Sea Level

MCARI Modified Chlorophyll Absorption Ratio Index

MCOTS Modified Commercial Off the Shelf

MDP Mobile Deployment Platform

MDSL Microsoft Dynamics SL ME Monitoring Executive

MES Manufacturing Execution System
MGC Multivariate Geographic Clustering

MIL-SPEC US Military Specification

MIS Management Information System

MLBS Mountain Lake Biological Station (SW Virginia)

MOA Memorandum of Agreement

MODIS Moderate Resolution Imaging Spectroradiometer

MOM Minutes of Meeting(s)

MOU Memorandum of Understanding

MP Metrics Plan

MPE Maximum Permissible Exposure
MPLS Multiprotocol Label Switching

MRDG Mountain Requirements Design Guidelines

MREFC Major Research Equipment and Facilities Construction
MRLC Multi-Resolution Land Characteristics Consortium

MRO Medical Review Officer

MRP Manufacturing Resource Planning
MRP Mobile Relocatable Platform
MRR Manufacturing Readiness Review

MRS Mobile Relocatable System

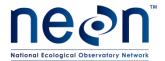
MSc Master of Science

MSDS Materials Safety Data Sheet
MSI Minority Serving Institution

MSL Mean Sea Level

MTBF Mean Time Between Failures

MTTF Mean Time To Failure
MTTR Mean Time To Repair



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MTTRS Mean Time To Return to Service

MUIR Map Unit Interpretations Record Database MVC Model, View, and Controller Architecture



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#### N

N/A, NA Not Applicable

NABS North American Benthological Society
NABT National Association of Biology Teachers

NACP North American Carbon Program

NADP National Atmospheric Deposition Program

NAO North Atlantic Oscillation

NAQWA National Water Quality Assessment Program

NASA EOS National Aeronautics and Space Administration Earth Observing System

NASA National Aeronautics and Space Administration

NASS National Agricultural Statistics Service

NAT Network Address Translation or Translator

NBAR Nadir BRDF Adjusted Reflectance
NBII Biological Information Infrastructure

NCALM National Center for Airborne Laser Mapping
NCAR National Center for Atmospheric Research

NCEAS National Center for Ecological Analysis and Synthesis

NCEP-NARR National Center for Environmental Prediction North American Regional Reanalysis

NGPRL Northern Great Plains Research Laboratory

NCI Non-Configured Item
NCR Non-Conformance Report

NCSS National Cooperative Soil Survey

NCVL NEON Calibration and Validation Laboratory

NDC NEON Design Consortium

NDLI Normalized Difference Lignin Index
NDVI Normalized Difference Vegetation Index

NEC National Electric Code

NED USGS National Elevation Dataset
NEDL Noise Equivalent Delta Radiance

NEE Net Ecosystem Exchange

NEMA National Electrical Manufactures Association
NEON National Ecological Observatory Network

NEP Net Ecosystem Production

NEPA National Environmental Policy Act
NESCent National Evolutionary Synthesis Center

NetCDF Network Common Data Form

NF Non-Forested Sites

NFHL National Flood Hazard Layer



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NFPA National Fire Protection Association

NFTF Near Field Test Facility

NGO Non-Governmental Organizations

NGS National Geodetic Survey
NHD National Hydrography Dataset
NI Networks and Infrastructure

NIBD Networking and Informatics Baseline Design

NID National Inventory of Dams

NIDA National Institute on Drug Abuse

NIMBios National Institute for Mathematical and Biological Synthesis

NIR Near Infrared

NIRS Near-Infrared Reflectance Spectrometry

NIS NEON Imaging Spectrometer

NISDVU NEON Imaging Spectrometer Design Verification Unit

NISS National Institute of Invasive Species Science

NIST National Institute of Standards

NIU Network Interface Unit

NLCD National Land Cover Dataset

NLT No Later Than

NMAS National Map Accuracy Standards

NMC NEON Management Center

NOAA National Oceanic and Atmospheric Administration

NOCD NEON Operations Concept Document

NOD NEON Observatory Design

NOHD Nominal Ocular Hazard Distance

NOy Relative Gaseous Nitrogen Compound

NP National Park

NPAC NEON Project Advisory Committee

NPE Non-Propagating Eddies

NPL National Physical Laboratory

NPN National Phenological Network

NPOESS National Polar-orbiting Operational Environmental Satellite System

NPP Net Primary Productivity or Production

NPP NPOESS Preparatory Project NPR NEON Project Management

NPS National Park Service

NPV Non-Photosynthetic Vegetation

NR Net Radiation

NRC National Research Council



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NRCS National Resources Conservation Service
NREL National Renewable Energy Laboratory
NREL Natural Resource Ecology Laboratory

NSF National Science Foundation

NSF-ABI National Science Foundation—Advances in Biological Informatics

NSS NEON Satellite Site

NTAD Transportation Atlas Database

NTN National Trends Network

NTSB National Transportation Safety Board



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O&M Operations and Maintenance O&S Operations and Sustainment

OAI-PMH Open Archives Initiative Protocol for Metadata Harvesting

OB Optical Bench

OBC On-Board Calibrator

OBIS Ocean Biogeographic Information

OBIS Outdoor Biology Instructional Strategies
OBS Organizational Breakdown Structure
OCC Operations Civil Construction Group

ODC Other Direct Cost

OFS Optical Fiber Communication System

OH Overhead

OID Operational Instruction Document

OLS Operations, Logistics, and Supportability

OMB Office of Management and Budget

OOB Out of the Box

OPIM Other Potentially Infectious Material

OPS Operations

ORD Observatory Requirements Document

ORG Organization

ORR Operations Readiness Review

ORION Ocean Research Interactive Observatory Networks

ORP Oxidation Reduction Potential
OSBS Ordway Swisher Biological Station

OSHA Occupational Safety and Health Administration

OSM Observation and Sample Management
OSS Operational (Operation) Support System

OTS Off the Shelf

OTU Operational Taxonomic Unit

OV Operational View



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#### P

P&C Procurement and Contracts

PA, P/A Product Assurance
PA Posterior Anterior

PAC Program Advisory Committee
PAD Protected Areas Database
PAI Permit Authorizing Individual
PAM Pulse Amplitude Modulated

PAR Photosynthetically Active Radiation
PAR Preliminary Acceptance Review

PBB Project BudBurst
PC Personal Computer

PCA Physical Configuration Audit

PCDA Portal CDS Data Access
PCR PMCS Change Request
PCR Polymerase Chain Reaction

PCS Portal Container Sets

PD Professional Development PDA Personal Digital Assistant PDO Pacific Decadal Oscillation PDP Preliminary Design Phase PDR Portal Data Replication PDR Preliminary Design Review PDR **Primary Data Repository PDR Processed Data Repository PDS Power Distribution System** PEL Permissible Exposure Level PEP **Project Execution Plan** 

PET Potential Evapotranspiration

PF Planar Fit

PFA PLANTS Floristic Area
PFT Plant Functional Types
PHA Preliminary Hazard Analysis
PI Principal Investigator

PI Principal Investigator
PIC Pilot in Command

PIDR Production Intent Design Review
PIM Payload Integration Mount

PIM Platform Integration Mount



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PISCO Partnership for Interdisciplinary Studies of Coastal Oceans

PM Preventive Maintenance

PM Project Manager

PMB Performance Measurement Baseline
PMCS Project Management Control System

PMO Project Management Office
PMR Problem Management Record

PNVG Potential Natural Vegetation Group

PO Project Office
PO Purchase Order
POC Point of Contact
PoE Power over Ethernet

POM Particulate Organic Matter

POP Point of Presence

POTS Plain Old Telephone Service

PP Planning Package

PPC Public Program Coordinator

PPE Personal Protective Equipment

PPFD Photosynthetic Photon Flux Density

PPM Policy and Procedure Manual

PR Purchase Requisition

PRCS Permit Required Confined Space

PRF Pixel Response Function

PRI Photochemical Reflectance Index

PRO, PROD Production

PRR Pre-Production Readiness Review

PRT Platinum Resistance Temperature or Thermometer

PSA Particle Size Analyzer
PSD Physical Sciences Division
PSE Project Systems Engineering
PST Product Support Teams

PSTN Public Switched Telephone Network

PT Product Team
PTL Product Team Lead
PTR Post Test Review

PTR Problem Tracking and Reporting or Problem Ticket Reporting

PV Planned Value PVC Polyvinyl Chloride

PVC Product Version Control



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## Q

Q1 Quarter 1
Q2 Quarter 2
Q3 Quarter 3
Q4 Quarter 4

Q/A, QA Quality Assurance Q/C, QC Quality Control

QFD Quality Function Deployment

QLFT Qualitative Fit Test

QMH Qualitative Multi-Habitat QMP Quality Management Plan

QNFT Quantitative Fit Test

Qpcr Quantitative Polymerase Chain Reaction
QTP/P Qualification Test Plan/Procedures

QTR Qualification Test Report



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#### R

R1 Release 1
R2 Release 2
R3 Release 3
R4 Release 4

RAC Real Application Cluster

RAID Redundant Arrays of Inexpensive Disks

RAM Random Access Memory

RAMS Reliability, Availability, Maintainability, and Safety

RBS Resource Breakdown Structure

RCRA Resource Conservation Recovery Act

RD Reference Document

RDAS Regional Data Assimilation System

RDP Review Document Parcel
RDR Raw Data Repository

RDS Rapid Deployment Systems

RDTR Requirements Decomposition and Traceability Review

RFI Radio Frequency Interference
RFI Request for Information

RFID Radio Frequency Identification

RFP Request for Proposal RFQ Request for Quote RFW Request for Waiver

RID Review Item Discrepancy
RMNP Rocky Mountain National Park

RMP Risk Management Plan
RMS, r.m.s. Root Mean Square
RMT Risk Management Team

ROPS Roll Over Protection

ROW Right of Way

**ROM** 

RPM Revolutions per Minute

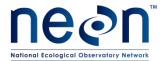
RRQRR Reversed Random Quadrat-Recursive Raster

Rough Order of Magnitude

RSP Remote Sensing Payload RTC Rational Team Concert

RTD Resistance Temperature Detector RTM Requirements Traceability Matrix

RTS Relocatable Tower System



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RTU Remote Terminal Units

RTW Return to Work

RVM Requirements Verification Matrix
RVSI Red Edge Vegetation Stress Index



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S

SAR System Architecture Requirement

SAT System Acceptance Test

SBE Social, Behavioral & Economic Sciences

SC Site Characterization

SCB Society for Conservation Biology

SCBI Smithsonian Conservation Biological Institute

SCI Science

SCIP Simultaneously Collimated Injection Platform

SCM Software Configuration Management
SCMP Software Configuration Management Plan

SCSI Small Computer System Interface

SD Standard Deviation

SDD Site Depiction Document
SDD Software Design Description
SDF Software Development Files

SDFIR Small Double Fence Intercomparison Reference

SDL Software Development Library
SDLC Systems Development Life Cycle
SDP Software Development Plan

SDPM Science and Data Products Management

SDR Secondary Data Repository
SDR Systems Design Review

SE Standard Error

SE Systems Engineering

SEA Science and Engineering Alliance

SEAPON Science and Engineering Phosphorous Observatory Network
SEEDS Strategies for Ecology Education, Development and Sustainability

SEI Software Engineering Institute

SEIV Systems Engineering Integration & Verification

SEL Software Engineering Lab

SEMP Systems Engineering Management Plan
SERC Smithsonian Environmental Research Center

SF Support Facility(ies)

SHPO State Historic Preservation Office

SI Smithsonian Institution

SIDD Software Interface Design Description
SIF Submersible In-situ Fluorometers



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SIGEO Smithsonian Institution Global Earth Observatories

SIL Stable Isotope Laboratory
SIR Soil Interpretations Record
SIS Spectral Imaging Sphere
SLA Service Level Agreement
SLOC Source Lines of Code

SMART Specific, Measurable, Achievable, Relevant, and Time-bound

SNARL Sierra Nevada Research Lab

SNMP Simple Network Management Protocol

SNR Signal to Noise Ratio
SNV Sin Nombre Virus
SOH State of Health

SOM Science Operations Management (or Manager)

SOO Statement of Objective

SOP Standard Operating Procedure

SOW Statement of Work

SPC Science Program Coordinator
SPI Schedule Performance Index
SQA Software Quality Assurance
SQG Small Quantity Generator

SRD Science Requirement Document
SRF Spectral Response Function

SRM Standard Reference Materials (NIST)

SRP Software Reuse Plan

SRP Soluble Reactive Phosphorous
SRR System Requirements Review
SRTM Shuttle Radar Topography Mission
SSDD System/Subsystem Description

SSH Secure Shell

SSRC3 SE and Science Requirements and Command, Control, and Configuration

SSURGO Soil Survey Geographic Database
STATSGO State Soil Geographic Database
STC Supplementary Type Certificate

STCDD Sensor Type Configuration Definition (or Data) Document STEAC, STAC Science, Technology, and Education Advisory Committee STEM Science, Technology, Engineering, and Mathematics

STF Sensor Technical Facility

STPP Soil Temperature Profile Probe STR Science Technical Requirement



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STREON Stream Experimental Observatory Network

STR STREON

SURFRAD Surface Radiation Network

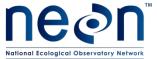
SV Schedule Variance

SV Systems and Services View SVD Software Version Description

SW Shortwave Radiation

SW Software

SWC Soil Water Content
SWD Switch Duty Rated
SWG Sensor Working Group
SWIR Shortwave Infrared
SWP Soil Water Potential
SYS Systems Engineering



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#### T

T&A Transition and Acquisition

TARDIS Testing Analog Resistance Digital Integrated Sensors

TBCB Test Bed Control Board
TBD To Be Determined
TBR To Be Reviewed

TCU Tribal Colleges and Universities
TDP Total Dissolved Phosphorous
TDR Time Domain Reflectometry

TDS Total Dissolved Solids

TDWG Taxonomic Databases Working Group
TEC Technical Evaluation Committee
TEM Technical Exchange Meeting
TEP Test and Evaluation Plan

TERN Terrestrial Ecosystem Research Network

TF Technical Facilities

TGCE Terrestrial Global Change Experiment

TGUC Trace Gas Unit Conversion
TIC Total Inorganic Carbon
TIFF Tag(ged) Image File Format

TIS Terrestrial Instrumentation System

TM Thematic Mapper

TMTB Table Mountain Test Bed
TOC Total Organic Carbon

TOIL Twin Otter International Ltd.

TOO Target of Opportunity

TOR Technical and Operational Requirement

TOS Terrestrial Observation System

TP Total Phosphorous

TPC Transaction Processing Council
TQM Total Quality Management
TRP Temperature Reference Probe

TRR Test Readiness Review
TSS Total Suspended Solids
TV Technical Standards View
TWA Time-Weighted Average

TWCGRN Terrestrial Wetland Global Change Research Network

TWG Technical Working Group



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U

UAAG User Agent Accessibility Guidelines
UAF University of Alaska Fairbanks
UAM University of Alaska Museum

UCSB University of California Santa Barbara
UDD User Documentation Description

UI User Interface

UIN Unique Identification Number

UL Underwriters Laboratory

ULPA Ultra Low Penetration Particulate Air
UNAVCO University NAVSTAR Consortium

UNDERC University of Notre Dame Environmental Research Center

UN-WMO United Nations World Meteorological Organization

UPS Uninterruptible Power Supply

USACE United States Army Corp of Engineers

USAID United States Agency for International Development

USA-NPN United States National Phenology Network
USBLM United States Bureau of Land Management
USBTS United States Bureau of Transportation Statistics

USCRN United States Climate Reference Network
USDA United States Department of Agriculture
USDOT United States Department of Transportation
USEPA United States Environmental Protection Agency

USFS United States Forest Service

USFWS United States Fish and Wildlife Service

USGS United States Geological Survey

USHCN United States Historical Climatology Network

USPS United States Postal Service

UV Ultraviolet

UVA University of Virginia



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## V

V&V Verified and Validated
V/V Validation and Verification
VAC Volts Alternating Current

VEMAP Vegetation/Ecosystem Modeling and Analysis Project

VLA Very Large Array VM Virtual Machine

VMI Vendor-Managed Inventory
VOC Volatile Organic Compounds
VoIP Voice Over Internet Protocol

VPD Vapor Pressure Deficit
VPN Virtual Private Network



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#### W

W3C World Wide Web Consortium
WAI Web Accessibility Initiative
WALI Waveform Altimeter LiDAR

WAN Wide Area Network
WAP Wireless Access Point

WBD Watershed Boundaries Dataset
WBS Work Breakdown Structure

WCAG Web Content Accessibility Guidelines
WEPAN Women in Engineering ProActive Network

WF Winter Wheat Fallow

WGS84 World Geodetic System 84 WHO World Health Organization

WI Work Items

WID Workflow Interface Document

WKT Well-Known Text

wLiDAR Waveform- Light Detection and Ranging

WMF Winter Wheat-Maize Fallow

WMO World Meteorological Organization

WMPF Winter Wheat-Maize-Proso Millet Fallow

WO Work Order
WP Web Portal
WP Work Packages

WRMC World Radiation Monitoring Center

WRR World Radiometric Reference

WUE Water Use Efficiency



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XSD XML Schema Definition

XSEDE Extreme Science and Engineering Discovery Environment



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Y

YNP

Yellowstone National Park