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### **Observatory Design And Requirements Neon**

3. Development of an overall NEON Observatory Requirements Document, or ORD (NEON.DSDV.SYS.004206.REQ) • Captures all system level requirements (Tier 2) with respect to various areas (Performance, Segments, Operations, Data, EH&S, Security, Construction, Interfaces, etc.) • Provides general Product Assurance and Verification Provisions to

### **Observatory Design and Requirements - NSF NEON**

Title: NEON Observatory Design Author: D. Schimel Date: 05/16/2013 NEON Doc. #: NEON.DOC.000001 Revision: D Page

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1 of 78 1 DESCRIPTION The NEON Science Strategy described the derivation of NEON's high level science requirements from the NEON Grand Challenges.

## **NEON Observatory Design**

Several high-level requirements provide the foundation for the NEON Observatory: Observe the causes and consequences of environmental change to establish the link between ecological cause and effect; Detect and quantify ecological responses to and interactions between climate, land use and ...

## **Science Design | NSF NEON | Open Data to Understand our ...**

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## **Observatory Design And Requirements Neon**

> About > Observatory Blog > A Primer on the NEON Sampling Design. A Primer on the NEON Sampling Design . March 23, 2011. By Sandra Chung. For a nationwide, long-term study of climate and ecology, location is key. The locations of NEON's 20 core data collection sites play a critical role in the observatory's ability to address the ...

## **A Primer on the NEON Sampling Design | NSF NEON | Open ...**

In preparation for the NEON's Preliminary Design Review by the National Science Foundation in 2003, six multidisciplinary teams of experts reviewed and revised key aspects of the Observatory's design. Currently, NEON relies upon input from a Science, Technology & Education Advisory Committee (STEAC) as well as many Technical Working Groups ...

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## **Advisory Groups | NSF NEON - NSF NEON | Open Data to ...**

The National Ecological Observatory Network is a project solely funded by the National Science Foundation and managed under cooperative agreement by Battelle. ... This document defines the rationale and requirements for Plant Phenology in the NEON Science Design. ... NEON.DOC.000001 NEON Observatory Design . Title: TOS Science Design for Plant ...

## **TOS SCIENCE DESIGN FOR PLANT PHENOLOGY**

requirements that guide the cohesive design of the NEON across all science, engineering, education, and cyber-infrastructure and the plant diversity requirements that further define the context and parameters of the plant diversity design and resulting data products. Plant diversity design requirements Select high-level NEON requirements NEON measurements of plant diversity will include observations

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of plant genomics, native and invasive  
plant

## **The plant diversity sampling design for The National ...**

NEON, Inc.'s, mission is to design, implement, and operate continental-scale research infrastructure, including the National Ecological Observatory Network, to open new horizons in ecological science and education, and to enable ecological analyses and forecasts for the benefit of society. lead Authors  
Dave Schimel, NEON

## **2011 SCIENCE STRATEGY - NSF NEON**

The National Ecological Observatory Network (NEON) provides open access ecological data, archival samples and educational resources to better understand how ecosystems in the U.S. are changing. Scientific infrastructure is also available for additional research studies.

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## **NSF NEON | Open Data to Understand our Ecosystems**

OBSERVATORY CONSTRUCTION AND PLANNING. To achieve good seeing, the observatory needs to be operated at the outside air ambient temperature. This requires minimum heat generation, good ventilation, insulation, and low thermal mass construction. It is important to plan thoroughly in achieving an optimal observatory.

## **Engineering Article: Observatory Design**

NEON design documents are required to define the scientific strategy leading to high-level protocols for NEON components and linking NEON Grand Challenges to specific measurements. Many NEON in situ measurements and sample analyses can be made in specific ways to enable continental-scale science

## **NEON AQUATIC SAMPLING STRATEGY**

Several criteria combine to create the

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minimum size requirements for your observatory. These include the height of the astronomer first and foremost. The focal length of the telescope combined with its type of mounting are primary factors to consider next.

## **Observatory Design Considerations | SpringerLink**

The National Ecological Observatory Network is a project solely funded by the National Science Foundation and managed under cooperative agreement by NEON, ... NEON.DOC.000001 NEON Observatory Design AD[02]  
NEON.DOC.001282 Introduction to the TOS Science Designs ... meet the requirements of the observatory (AD[01]), are (to the extent possible ...

## **TOS Science Design for Mosquito Abundance, Diversity, and ...**

Designs will be reviewed periodically to ensure that the data collected by NEON are those best suited to. meet the requirements of the observatory



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(AD[01]), are (to the extent possible) consistent with. standards used by the scientific community, and fit within the scope of NEON. Additional information on.

## **TOS Science Design for Ground Beetle Abundance and Diversity**

The National Ecological Observatory Network (NEON) is a multidecadal and continental-scale observatory with sites across the United States. Having entered its operational phase in 2018, NEON data products, software, and services become available to facilitate research on the impacts of climate change, land-use change, and invasive species.

## **From NEON Field Sites to Data Portal: A Community Resource ...**

The National Ecological Observatory Network (NEON) will provide a physical and information infrastructure to enable understanding and forecasting of the impacts of climate change, land use change and invasive species on

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continental-scale ecology. The NEON design derives from the

## **NEON.MGMT.DPS.005003.REQ.C NEON Scientific Data Products ...**

NEON Science and Observatory Design Review Charge: Assess whether NEON scientific, technical and deployment requirements will allow researchers to address the NEON science and Use-cases derived from the NEON Integrated Science and Education Plan. "In summary, we believe that the scientific basis for NEON planning and design

## **National Ecological Observatory Network**

SPECIAL FEATURE: NEON DESIGN  
Introduction to the sampling designs of the National Ecological Observatory Network Terrestrial Observation System  
ANDREA S. THORPE, DAVID T. BARNETT, SARAH C. ELMENDORF, EVELYN S. HINCKLEY, 1,2 DAVID HOEKMAN, 3 KATHERINE D. JONES, KATHERINE E. LEVAN, COURTNEY L. MEIER, LEE F.

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