

Observatory Design And Requirements Neon

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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 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

NEON Observatory Design ... NEON Science Requirements 1. The observatory will cover a continental scale,using ... The National Ecological Observatory Network is a project sponsored by the National Science Foundation and managed under cooperative agreement by NEON Inc.

NEON Observatory Design

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These design objectives are based on the National Research Council's Grand Challenges in Environmental Science. 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;

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

The locations of NEON's 20 core data collection sites play a critical role in the observatory's ability to address the broad ecology and climate questions it was uniquely designed to answer. Careful study of un-invaded and invaded sites and of wildland and disturbed sites can help illuminate complex relationships between ecosystems, invasive species and land use.

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

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An observatory's ergonomics impact directly on the enjoyment of its user - especially when you consider that it is used in the dark. Key aspects such as floor and door height, openings, sight lines and access are considered in detail to ensure every observatory is both comfortable and pleasurable to use for its individual owner.

Our Observatory Design Principles | Outsideology

The design and construction of the observatory pier, dome, and control room for a small college observatory is discussed. This includes a suggested floor plan, elevation plan, control room location, traffic flow patterns, and other factors.

Engineering Article: Observatory Design

Introduction. The National Ecological Observatory Network (NEON) is designed to improve understanding and forecasting of ecological change at continental scales over decades (Schimel et al. 2011).Insight into ecological cause and effect will result from integrating systematic observations of drivers of change and responses at as many as 47 terrestrial sites across the continental United States ...

The terrestrial organism and biogeochemistry spatial ...

The National Ecological Observatory Network is a project solely funded by the National Science Foundation and managed under cooperative agreement by ... NEON.DOC.000001 NEON Observatory Design . Title: TOS Science Design for Plant Phenology Date: 04/11 ... meet the requirements of the Observatory (ADJ01), are (to the extent possible) ...

TOS SCIENCE DESIGN FOR PLANT PHENOLOGY - NEON

A requirements-driven observatory, like NEON, starts with high-level science questions. The ensuing structured decomposition successively yields detailed science requirements, system and subsystem design and their implementation, and eventually measurements and data products, culminating i n a suite of metrics

LTAR-NEON Integration: A Conceptual Architecture

A. Description of the National Ecological Observatory Network (NEON) Data is collected at sites in geographically distributed terrestrial and aquatic ecosystems across 20 eco-climatic domains in the United States and its territories, including Alaska, Hawaii and Puerto Rico using a combination of automated instrument measurements, airborne remote sensing surveys, and observational sampling.

Competition for the Management of Operations and ...

> National Ecological Observatory Network Kleinfielder is responsible for providing environmental siting recommendations to reduce or eliminate ecological impacts and geotechnical needs for various research sites throughout all 20 National Ecological Observatory Network (NEON) domains.

National Ecological Observatory Network - Kleinfielder

Several criteria combine to create the 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

DTM Engineering, Inc. 1035 Delaware Ave. Unit D Longmont, CO 80501 Phone: 303-678-8143 Fax: 303-772-9411

Engineering Article: Observatory Design Outline

Lead Field Technicians perform and supervise seasonal and periodic sampling of physical, chemical and biological data at one (1)-five (5) field sites, while exercising good judgement and decision-making abilities to interpret protocol requirements. Lead Field Technicians are assigned an area of primary responsibility within the scope of data collection: botany, entomology, mammalogy, or limnology.

Full-Time Lead Field Technician- Limnology - NEON Program ...

Table 1. Traceability between a subset of the high-level National Ecological Observatory Network (NEON) 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 ...

The plant diversity sampling design for The National ...

observatory architecture and design surveys a range of schemes from around the globe, looking at contemporary projects and their unconventional forms.