

Seminario:

Protocolos y Librerías espectrales en
Espectroscopía de campo: de las buenas
prácticas a una mayor utilidad de los datos

Madrid, Instituto Nacional de Técnica Aeroespacial (INTA)

7 de marzo de 2019



Spectral databases: from acquisition to data exchange. Two examples: data papers/datasets and new interoperable standards



Ricardo Díaz-Delgado

Remote Sensing and GIS Laboratory

Long-Term Monitoring at landscape scale of Doñana Protected Area



Data Paper:

“A specific, stand-alone publication describing a particular dataset or a collection of datasets”

Una publicación independiente que describe un juego de datos o una colección de ellos (publicados en línea)

Artículo de datos. ¿Qué?

- Artículo *académico* que describe uno o varios conjuntos de datos.
- Formato legible (y entendible).
- Pone de manifiesto la existencia de estos datos (URL → DOI).
- Repositorio público y bajo licencia.

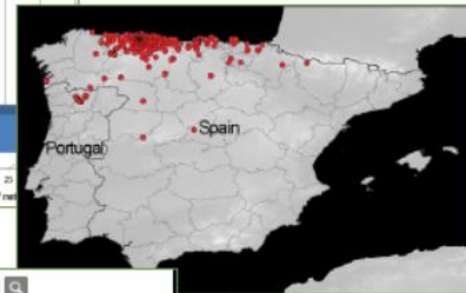
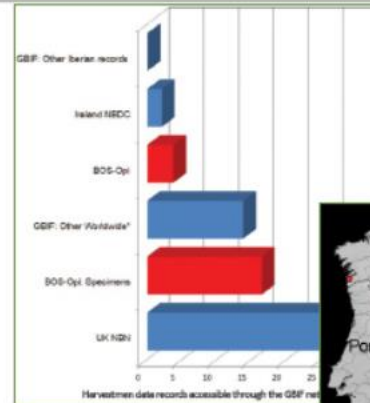
What?



How?

Artículo de datos. Estructura

- Título e información de los autores
- Resumen y palabras clave
- Detalles del proyecto
- Cobertura taxonómica
- Cobertura geográfica
- Metodología
- Dónde están los datos
- Descripción del conjunto de datos
- **Otros (apéndices, gráficos, tablas...)**
- Referencias



Where?



DATA SCIENCE Journal

Welcome to the CODATA Data Science Journal

Home
Current Issue
Special Issue: CRIS for European e-Infrastructure
Special Report: GEOS Data Sharing Principles
Essay: Information Gulags, Intellectual Straightjackets, and Memory Holes
Previous Volumes
Submission Instructions
Scope of the Journal
Submission Terms & Conditions
Sample Submission Paper [PDF]
For Reviewers

The Data Science Journal is a Journal of the Committee on Data for Science and Technology (CODATA) of the International Council for Science (ICSU)

The CODATA Data Science Journal Volume 12 (2013) is now available.

ISSN 1683-1470

The Data Science Journal is a peer-reviewed, open access, electronic journal publishing papers on the management of data and databases in Science and Technology. The scope of the Journal includes descriptions of data systems, their publication on the internet, applications and legal issues. All of the Sciences are covered, including the Physical Sciences, Engineering, the Geosciences and the Biosciences, along with Agricultural and the Medical Sciences.

The Journal publishes data or data compilations, if the quality of data is excellent or if significant efforts are required in compilation.

Where?



About

▼ Aims and Scope ▼ Contacts ▼ Advisory and Editorial Board ▼ Supported by ▼ FAQ

Launching in May 2014 and open now for submissions, *Scientific Data* is a new open-access, online-only publication for descriptions of scientifically valuable datasets, initially focusing on the life, biomedical and environmental science communities.

Scientific Data exists to help you publish, discover and reuse research data and is built around six key principles:

- Credit: Credit, through a citable publication, for depositing and sharing your data
- Reuse: Complete, curated and standardized descriptions enable the reuse of your data
- Quality: Rigorous community-based peer review
- Discovery: Find datasets relevant to your research
- Open: Promotes and endorses open science principles for the use, reuse and distribution of your data, and is available to all through a Creative Commons license
- Service: In-house curation, rapid peer-review and publication of your data descriptions

[-http://www.nature.com/scientificdata/about/](http://www.nature.com/scientificdata/about/)

Where?



A Distribution and Taxonomic Reference Dataset of Geranium (Geraniaceae) in...

search.datacite.org

Updated Jun 5, 2017



Ridgefield - Shiny Geranium and Fragrant Water Lily

catalog.data.gov

data.doi.gov

+1 more

Updated Oct 25, 2018



Data from: Earthworm invasion, white-tailed deer and seedling establishment...

datadryad.org

Published Nov 25, 2014



GBIF Occurrence Download

search.datacite.org

Updated 28 Jul 2017



GBIF Occurrence Download

search.datacite.org



A Distribution and Taxonomic Reference Dataset of Geranium (Geraniaceae) in the New World

🌐 search.datacite.org

Dataset created Apr 29, 2015

Dataset updated Jun 5, 2017

Dataset published 2015

Dataset provided by

[Spanish National Research Council](#)

[DataCite](#)

Authors

Carlos Aedo; Francisco Pando

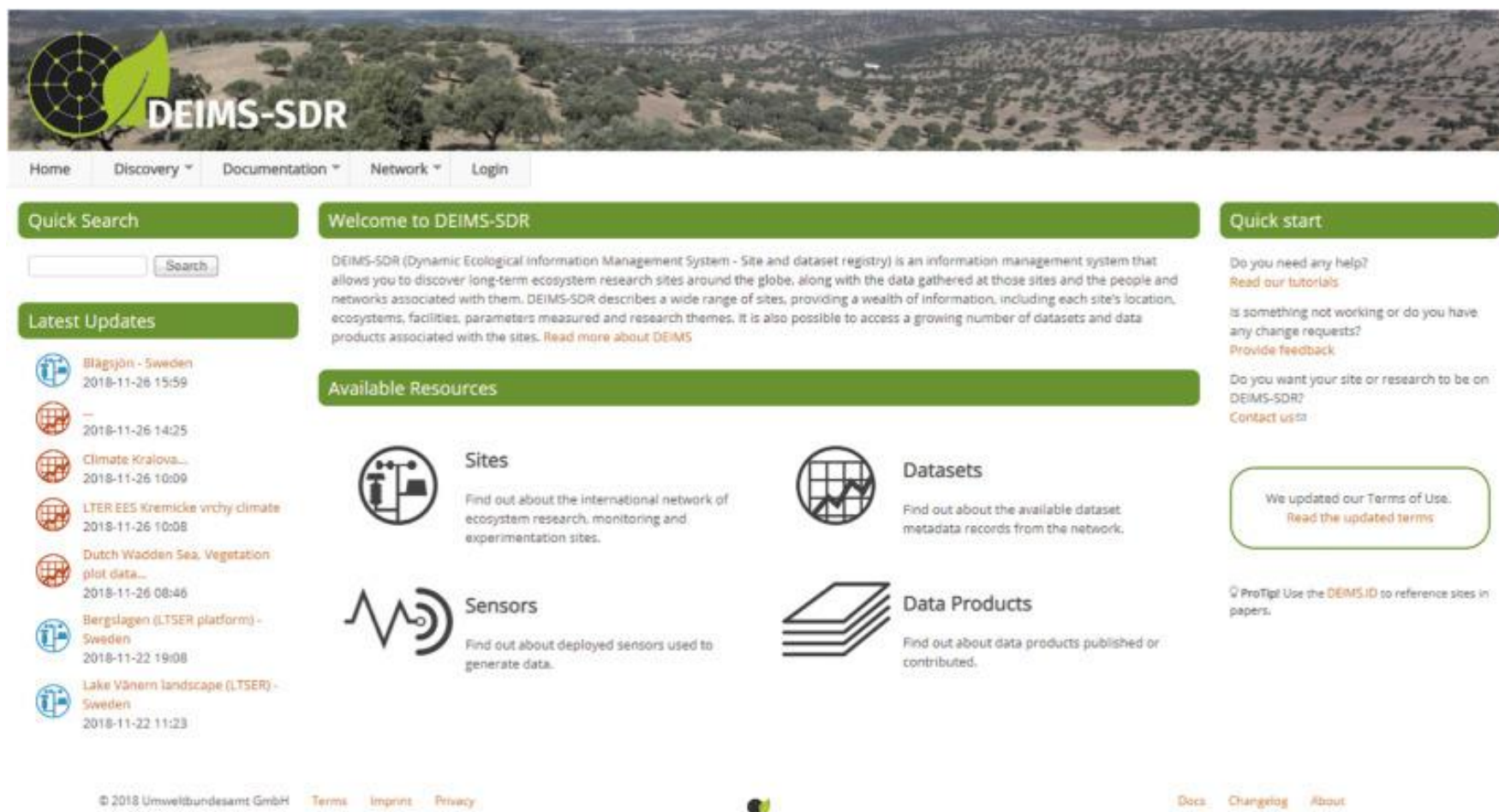
License

<http://creativecommons.org/licenses/by/4.0/legalcode>

Description

The dataset includes 8937 records that covers genus Geranium the New World, providing an updated, taxonomically consistent and a sound geographical distribution of the 137 species of Geranium in America. These are the studied specimens on which following monograph was based:

Aedo, Carlos (2012). Revision of Geranium (Geraniaceae) in the New World. Systematic Botany Monographs 95: 550p.



The screenshot shows the DEIMS-SDR website interface. At the top, there is a navigation bar with links for Home, Discovery, Documentation, Network, and Login. Below this, the main content area is divided into several sections:

- Quick Search:** A search bar with a "Search" button.
- Welcome to DEIMS-SDR:** A central text block explaining the system: "DEIMS-SDR (Dynamic Ecological information Management System - Site and dataset registry) is an information management system that allows you to discover long-term ecosystem research sites around the globe, along with the data gathered at those sites and the people and networks associated with them. DEIMS-SDR describes a wide range of sites, providing a wealth of information, including each site's location, ecosystems, facilities, parameters measured and research themes. It is also possible to access a growing number of datasets and data products associated with the sites. [Read more about DEIMS](#)"
- Available Resources:** A section with four icons and descriptions:
 - Sites:** Find out about the international network of ecosystem research, monitoring and experimentation sites.
 - Datasets:** Find out about the available dataset metadata records from the network.
 - Sensors:** Find out about deployed sensors used to generate data.
 - Data Products:** Find out about data products published or contributed.
- Quick start:** A section with links for help: "Do you need any help? [Read our tutorials](#)", "Is something not working or do you have any change requests? [Provide feedback](#)", and "Do you want your site or research to be on DEIMS-SDR? [Contact us!](#)".
- Latest Updates:** A list of recent updates with icons and timestamps:
 - Blågsjön - Sweden, 2018-11-26 15:59
 - , 2018-11-26 14:25
 - Climate Kralova..., 2018-11-26 10:09
 - ILTER EES Kremické vrchy climate, 2018-11-26 10:08
 - Dutch Wadden Sea, Vegetation plot data..., 2018-11-26 08:46
 - Bergslagen (ILTER platform) - Sweden, 2018-11-22 19:08
 - Lake Vänern landscape (ILTER) - Sweden, 2018-11-22 11:23
- Footer:** Copyright © 2018 Umweltbundesamt GmbH, with links for Terms, Imprint, Privacy, Docs, Changelog, and About.

<https://deims.org/>

Metadata model (EML)

General characteristics

Site Name*
Short Name
DEIMS.ID**
Size
General Site Description
Purpose of Site
Images
Parent Site Name
Sub Site Name(s)
EnvThes Keywords

Contact Details

Site Manager *
Site Owner
Funding Agency
Web Address

Metadata Details

Metadata Provider
Metadata Update Date**

Geographic Location

Country*
Center coordinates
Site boundaries
Shapefile
Elevation
Average
From
To

Status and History

Site status
Year site established
Year site closed
History of site

Ecosystem and environmental characteristics

Temperature
Average
From
To
Precipitation
Average
From
To
Biomes
Biome
Geo-Bon-Biome
Ecosystem and land use
Biogeographic region (only for Europe)
EUNIS habitat
Geology
Hydrology
Soil
Vegetation

Site Classification

Site Type (Spatial Design)

Network affiliation

Networks/Projects
Network specific
ICP Forests Code
Site classification ExpeER

Focus, design and scale

Research topics
Parameters
Observation design
Scale of observation
Design of observation
Experimentation design
Scale of experimentation
Design of experimentation

Protection status and resource management

Protection program
Protection program
Cover
Notes
Management of resources
Management of resources
Cover
Notes

Infrastructure and operation

Infrastructure
Infrastructure value
Infrastructure notes
Accessible all year
All parts of site accessible
Access type
Permanent power supply
Infrastructure collection
Operation
Permanent operation
Operation costs
Operation notes
Sampling interval
Maintenance interval

Data Sharing Policy

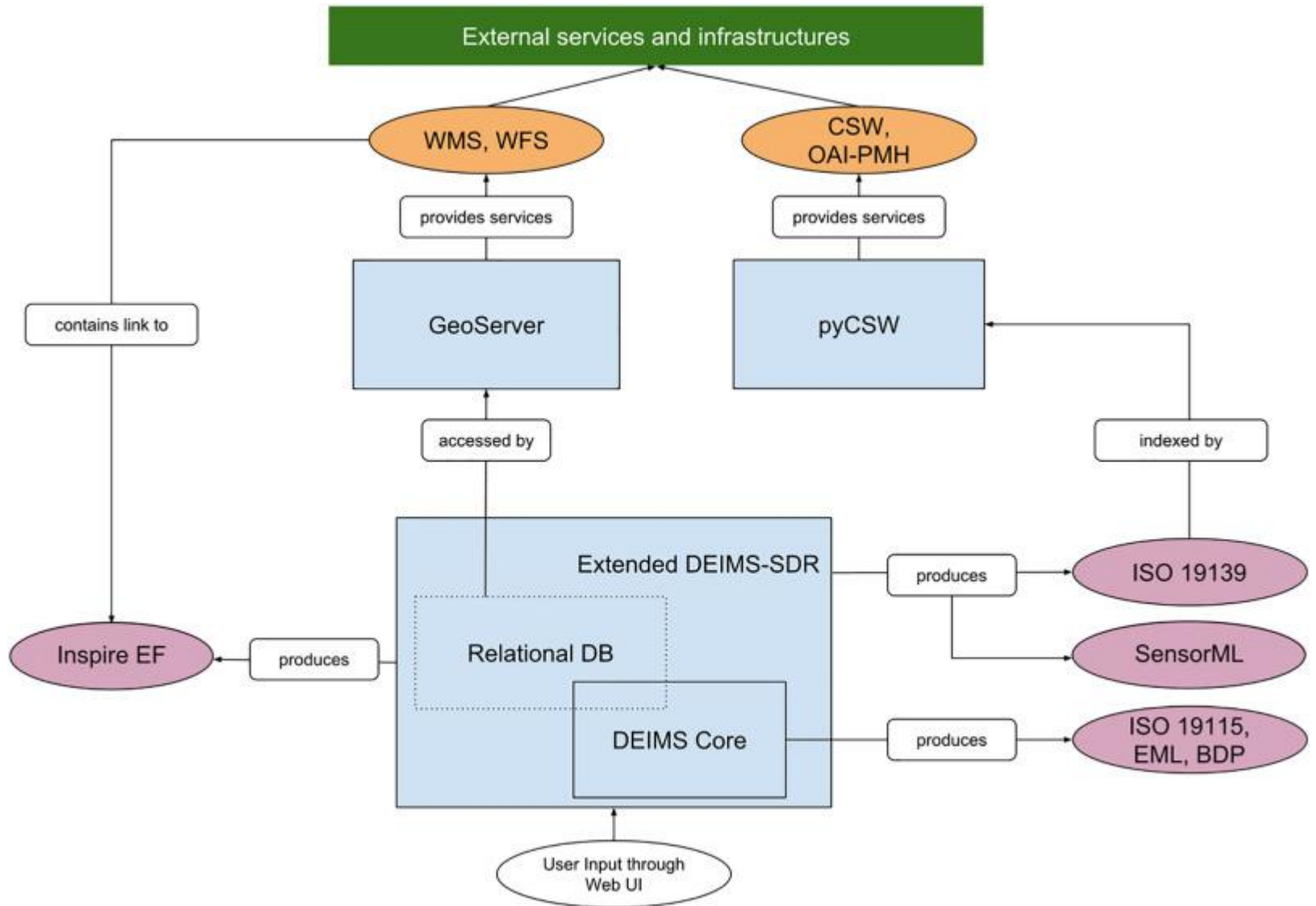
Data Request Format
General Data Policy
Data Policy Notes

Data management

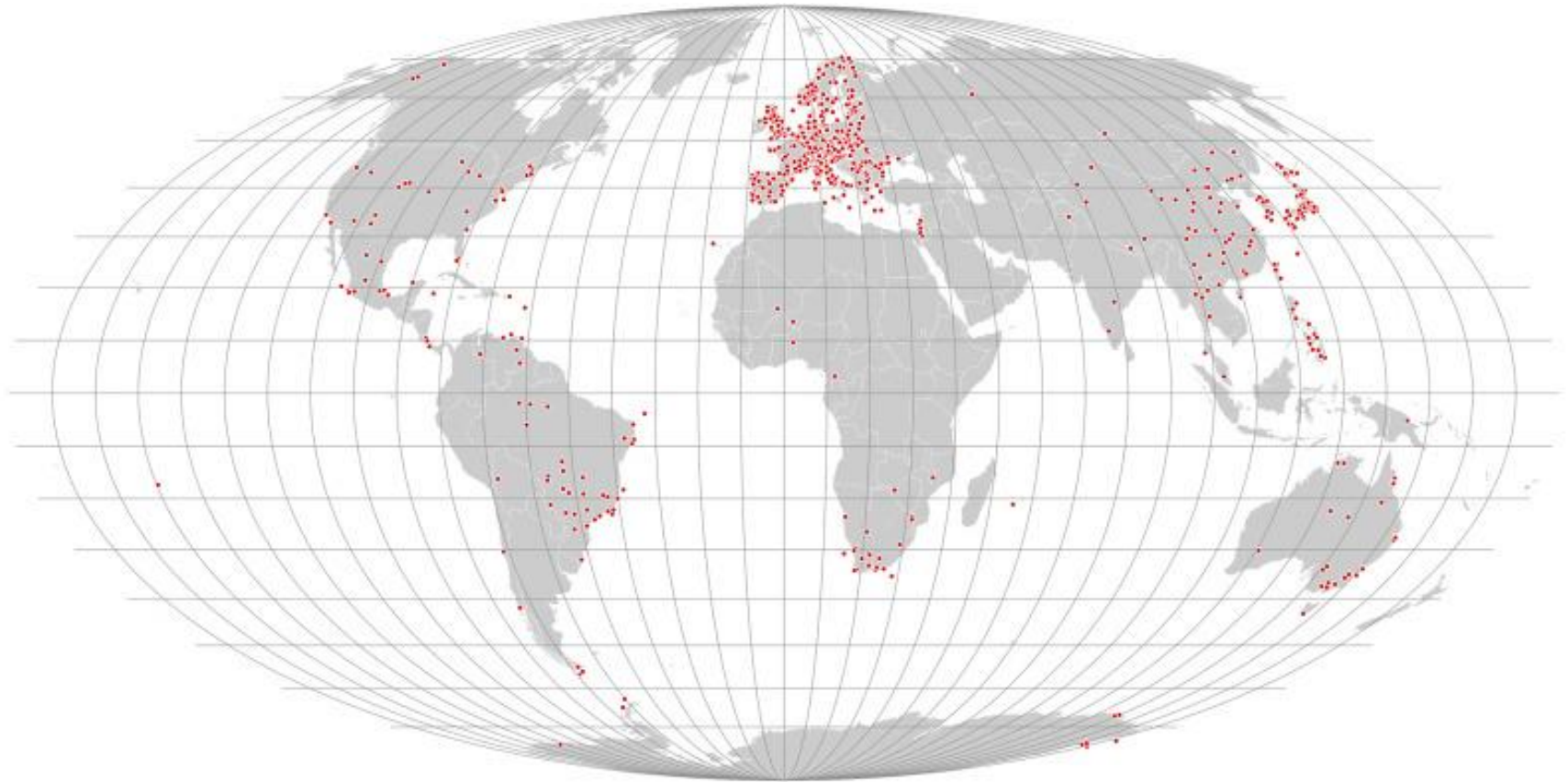
Data storage location
Data storage format
Data services
Data notes

Mandatory*
Automatically generated**
Recommended (and used for calculating completeness of a record)

Services



Contributing sites (1019) since 2014



Legend

- Site registered on DEIMS-SDR

Sources: Administrative boundaries: gadm.org
Site locations: DEIMS-SDR
Projection: EPSG:54009

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Environment Agency Austria 2018

Doñana since 2014



Home » Site » Discovery » Doñana Long-Term Socio-ecological Research Platform - Spain

Doñana Long-Term Socio-ecological Research Platform - Spain

View Edit Revisions

DEIMS.ID: <https://deims.org/0cbc866c-3f4f-47a8-bbbc-0e93df6de7b2>

Basic Information

LTSP **100%**

Site Name: Doñana Long-Term Socio-ecological Research Platform
Short name: Doñana LTSP Platform
Web Address: ICTS-EBD@ebd.mondrago.es
EBD MONITORING PROGRAM@
Country (Site Location): Spain
LTSP Member Network: Spain (LTSP:Spain)
Contact: Site Manager: Ricardo Diaz-Deigado
Luis E. Santamaría Galdon

Free Keywords: biodiversity birds ecology ecopotential

General Site Description:
Protected in 1968, Doñana National Park (537 km²) is a UNESCO Biosphere Reserve, a Ramsar Site and a Natural World Heritage Site. It contains the largest wetland in Western Europe, a intricate matrix of marshlands (270 km²), phreatic lagoons, a 25 km-long dune ecosystem with its respective shoreline and representative Mediterranean terrestrial plant communities. Doñana is both a critical stopover site for Palearctic birds migrating to Africa and an important overwintering site for waterfowl. Doñana LTSP platform comprises both the protected area and the surrounding territories (2736 km²) where
... Show more

Download Metadata:
 Environmental monitoring facilities

General Characteristics, Purpose, History

Site Status: existing
Year Site Established: 1969
Size: 273 600.00ha
Purpose of Site:
The many different management plans for Doñana LTSP require the implementation of methodological protocols to yield continuous long term information on biodiversity status, natural processes trends, human activities and public land use in order to increase the knowledge on ecosystem dynamics



20 datasets (EUDAT-bit2share)



Home » Dataset » Discovery » Direct measurements aboveground grasses biomass at Doñana LTSP Platform (2011-2012)

Direct measurements aboveground grasses biomass at Doñana LTSP Platform (2011-2012)

View Edit Clone this dataset

Basic Information

Related Site: Doñana Long-Term Socio-ecological Research Platform - Spain

Abstract:
Annual vascular plant percent cover measured per species along 3 15m long transects inside 15x15m² plots. 21 plots are placed in the dominant shrubland communities in Doñana Biological Reserve inside the Doñana LTSP Platform. Abundance may directly be estimated from percent cover. Species list is indicated listcode field.

Keywords: plant cover permanent plots

Owner/Creator: Ricardo Diaz-Deigado
Contact: Ricardo Diaz-Deigado
Metadata provider: Ricardo Diaz-Deigado
UUID: 01975c26-90a2-11e2-b534-005056ab003f

Dates

Date Range: Saturday, December 31, 2011 to Sunday, December 30, 2012

Related

Method: <http://www.rbd.ebd.csic.es/Seguimiento/mediobiologico/formacionesvegetales/dinam...@>

Downloads

Online Locator:
Distribution URL: <http://icts.ebd.csic.es/BuscarMedidasSeguimientoAction.do?mostrarLista=false&...@>
Distribution Function: Web address (URL)

Download Metadata record:

Geographic

A map of the Doñana Biological Reserve in southwestern Spain. The map shows the coastline of the Golfo de Cádiz and various locations within the reserve, including Puntales, Puntales, and Puntales. A blue rectangle highlights a specific area of interest. The map is credited to 'Lealle | GDM Mapnik'.

Additional information