SeisDARE: an open access seismic data repository

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GEO3BCN

Seminar Barcelona Center for Subsurface Imaging

CSIC

1. INTRODUCTION

Why are seismic data important?

Seismic data provide critical information about the structure of the lithosphere.

Are the basis for Solid Earth Science.

Are logistically complex, expensive to acquire and its geographical coverage limited.

Therefore, data needs to be preserved.

1. INTRODUCTION

What is open access data?

Data that are Findable online, easily Accessible, Interoperable among different institutions and research groups and Reusable, promoting new interpretations.

FAIR data

As Open as Possible

As Close as Necessary

1. INTRODUCTION

How can we make our data FAIR?

To achieve an OA dataset scientists need to:

- Develop a Data Management Plan (DMP)
- Deposit of data in a repository
- Provide related information to data
- Ensure third parties can freely access data

<https://www.openaire.eu/what-is-the-open-research-data-pilot>

1. INTRODUCTION

How can we face new publication policies?

Before, supplementary data, but nowadays...

Get ready

[\[Back to top\]](#)

Before submitting your manuscript for peer review, you are kindly requested to do the following:

- to get your data ready:
 1. make sure your data are well **curated**, are stored in non-proprietary formats, and include basic usage information;
 2. upload your dataset to an **appropriate repository** that provides **permanent digital object identifiers (DOI)**;
 3. make sure your data are distributed under a **non-restrictive licence** such as CC BY 4.0 or equivalent;
 4. make sure that reviewers have **anonymous access** to your data (i.e. no registration, email, or other personalised information required for review);
 5. make sure to include the DOI and citation of your dataset in both the **abstract** and the dedicated **data availability section** – e.g. https://doi.org/10.15770/EUM_SEC_CLM_1001 (Loew et al., 2015) – and add the corresponding entry to the **list of references** – e.g. Loew, A., Bennartz, R., Fell, F., Lattanzio, A., Doutriaux-Boucher, M., and Schulz, J.: Surface Albedo Validation Sites, EUMETSAT, https://doi.org/10.15770/EUM_SEC_CLM_1001, 2015.

1. INTRODUCTION

What has been going on in seismic open data?

<https://avaa.tdata.fi/web/fire>

IGCP Project 559
Crustal Architecture and Images

contact us: contact@earthscrust.org.au | [about us](#)

Updated: Jun 30, 2017

Project Objective

This IGCP project focus on that part of planet Earth that has the most significance for the world's communities, namely the Earth's Crust and Upper Mantle, that outer part of the planet on which we all live. The project makes available to communities-at-large a wealth of information and seismic imaging that is commonly only available to research workers but yet has a profound effect on how we think of the landscapes, natural environments and their controlling geological processes and tectonic influences. This information allows an understanding of crustal architecture and tectonic history/processes that is fundamental to any appreciation and understanding of landscapes, surface geology and natural hazards at a local, regional and global scale.

The project aims to bridge the gap between scientific effort and the public interest and give a real insight into nature of the major geological processes in the outer 50-70 km of the Earth that directly affect our lives.

Through the project's web site development phase, it will link and archive images and sources of information on crustal architecture from world-wide seismic imaging programs. Through the sponsorship of key international symposia the project will foster international cooperation and knowledge transfer.

The project has widespread relevance to decision making in the areas of natural resource development, urban and national infrastructure planning, university teaching, groundwater management and natural hazard assessment on all continents.

Project Workplan

The project will continue to develop the web site started by IGCP Project 474 that gives ready access to information on crustal architecture principally determined by seismic methods. The project will also sponsor and support symposia focussed on deep seismic profiling and imaging techniques aimed at further enhancing our knowledge of crustal architecture around the world.

Project Crustal Architecture and Images

Click on area of interest to see available transects for that area (large font, bold centred and just above map) or select Seismic Images here or on the Left Hand Tool Bar to navigate to the transects pages.

<http://www.earthscrust.org.au/>

<http://info.igme.es/SIGEOF/>

IRIS Incorporated Research Institutions for Seismology

RESEARCH
Data, derived products, software, web services

EDUCATION
Lessons, lectures, videos, public displays

FACILITIES
Directorates, programs, networks, centers

EARTHQUAKES
Recent earthquakes, teachable moments

ABOUT IRIS
Organization, governance, news, jobs, annual reports

RESOURCES
Publications, webinars, posters, newsletters, proposals

[Data Services / Products](#)

Data Services Products

Data products derived from raw data are produced both by the scientific community and the IRIS DMC. These complement the simple data products based on raw data such as event segmented waveforms, which are available via the DMCs traditional **data access** mechanisms. To ensure that the data products are useful to the research community, direct feedback and guidance is provided by the **Data Service Standing Committee (DSSC)**.

Below is a list of products produced either at the DMC or by the research community that are available from the DMC. Many of these products are available in **SPUD** where you can easily search for and download products.

View the list of DMC funded products.

View a timeline of data product development: [interactive version](#) | [static version](#) | [CSV version](#) | [Excel version](#)

Have a data product idea? Feel free to [suggest a data product](#).

You can also view product [categories](#) and [general metadata](#).

<https://ds.iris.edu/ds/products/>

Product categories:

- c — Contributed
- f — Funded
- i — Internal

2. EPOS and SERA

- The European Plate Observation System (EPOS) is a long-term plan to facilitate integrated use of data, data products, and facilities for solid Earth science in Europe.
- EPOS promotes implementation plans with environmental, marine and space science to help solve the grand challenges of Solid Earth science.

2. EPOS and SERA

Within EPOS, a Thematic Core is focused on Seismology

<https://www.epos-ip.org/tcs/seismology>

Which, in turn, is built on:

<https://www.orfeus-eu.org/>

<http://www.efehr.org/en/home/>

<https://m.emsc.eu/earthquake/nearU.php#1week;ROADMAP;41.38;2.17;1;0>

2. EPOS and SERA

SERA Project in collaboration with the Uppsala University.

The beginning of SeisDARE.

[Home](#)[About](#)[Activities](#)[Dissemination](#)[News & events](#)[Technical Reports](#)

Networking activities

Five work packages within SERA are dedicated towards networking activities. The aim is to pool know-how and create frameworks for facilitating exchange among professionals and researchers from different fields.

Work packages

- WP 3 Networking Seismo@school outreach programs (NA1)
- WP 4 Expanding access to the European seismic monitoring infrastructure (NA2)
- WP 5 Networking Deep Seismic Sounding data and products (NA3)
- WP 6 Networking experimental seismic engineering databases (SERIES) (NA4)
- WP 7 Networking databases of site and station characterization (NA5)

<http://www.sera-eu.org/home>

WP 5 Networking Deep Seismic Sounding data and products (NA3)	
In brief	Deep seismic sounding profiles record signals which have traversed the deeper Earth, typically the lower crust and upper mantle. To achieve the required depth of penetration, long profiles and large controlled sources (explosions) are required which make such experiments expensive and time-consuming. Therefore, new and older data is of great scientific importance, especially as modern analysis tools allow increasingly refined interpretations. This work package will therefore create a database including all DSS data collected within the EU since the late 70's.
Lead	UU
Participants	CSIC, UIB
Contact	Roland Roberts
Tasks	Task 5.1 Mapping of data availability and establishing the core community Task 5.2 Engaging the broader scientific community Task 5.3 Defining concrete common goals and functionalities towards a pre-operational service Task 5.4 Pre-operational service activities
Deliverables	D5.1 Inventory of available DSS databases, including raw and processed data, formats, metadata, products of various level obtained from the raw data, reports and technical documentation of past experiments, availability, access mechanisms [M9] D5.2 Position document of the DSS community on future data accessibility of DSS data [M12] D5.3 Scientific roadmap for the active and passive seismological community [M24] D5.4 Feasibility assessment for the establishment of a DSS access service as part of the EPOS framework, covering technical, integration, organization, governance and financial aspects [M24] D5.5 Validation of pre-operational access phase to selected DSS datasets and products [M36]

3. DIGITAL.CSIC FACILITIES

Digital.CSIC is an institutional repository that accomplish the national and international mandates of open access data.

The screenshot shows the top navigation bar of the Digital.CSIC website. The bar is dark grey with the 'DC' logo on the left. Navigation links include 'CSIC Research', 'Pasarela', 'Statistics', and 'Contact'. A search bar labeled 'Search DSpace' is present, followed by a dropdown menu currently set to 'DIGITAL.CSIC'. To the right of the dropdown is a red search button with a magnifying glass icon and a 'Sign on to:' link. Below the navigation bar, there is a language selector with 'English' and 'español'. The main content area features a welcome message: 'Welcome to **DIGITAL.CSIC**, the institutional repository of the **Spanish National Research Council**. **DIGITAL.CSIC** organizes, preserves and provides open access to CSIC research outputs.' Below this, there are links for 'DIGITAL.CSIC Annual Reports' and 'CSIC Mandate FAQs'. On the right side of the main content area, there is a large logo for 'DIGITAL.CSIC' with 'OPEN SCIENCE' underneath it. A pink banner at the bottom right of the main content area reads 'Colección Especial COVID-19'. Social media icons for Web, YouTube, and Twitter are also visible.

English español

Welcome to **DIGITAL.CSIC**, the institutional repository of the **Spanish National Research Council**.
DIGITAL.CSIC organizes, preserves and provides open access to CSIC research outputs.
DIGITAL.CSIC Annual Reports
CSIC Mandate FAQs

DIGITAL.CSIC
OPEN SCIENCE
Colección Especial COVID-19

3. DIGITAL.CSIC FACILITIES

Geo3Bcn holds a multidisciplinary database including data of:

- Seismology
- Volcanology
- Geochemistry
- Paleoecology
- Geochronology

DC CSIC Research Pasarela Statistics Contact Search DSpace DIGITAL.CSIC Sign on to: English español

DIGITAL.CSIC / Recursos Naturales

Statistics

Geociencias Barcelona (Geo3Bcn) : [2893]

El Instituto de Ciencias de la Tierra Jaume Almera (ICTJA) es un centro del Consejo Superior de Investigaciones Científicas (CSIC), se creó en 1965 y está ubicado en el Campus Universitario de Pedralbes en Barcelona. La actividad investigadora del ICTJA se enmarca en cuatro Líneas de Investigación: Estructura y Dinámica de la Tierra. Cambios Medioambientales en el Registro Geológico. Modelado Geofísico y Geoquímico. Cristalografía y Propiedades Ópticas. La actividad investigadora se desarrolla a través de la ejecución de contratos con empresas públicas y privadas y proyectos de investigación competitiva de los gobiernos catalán y español y de la Unión Europea.

<http://www.ictja.csic.es/>

Perfiles de investigadores ICTJA en DIGITAL.CSIC

Browse

Issue Date	Author	Title	Keywords
Funder	Submit Date		

Institute website

Researcher's profiles

Browse by...

<https://digital.csic.es/handle/10261/82>

3. DIGITAL.CSIC FACILITIES

Every dataset is presented in the format of a publication.

DC

Producción CSIC ▾ Pasarela Estadísticas Contacto

Buscar en DSpace

(Geo3Bcn) SeisDARE : [20]

Buscar

Fecha Publicación Autor Título Palabras Clave Agencia Financiadora Fecha Envío

Suscribirse para recibir un email cada vez que se grabe un nuevo ítem en esta colección. [Suscribir](#) [RSS 1.0](#) [RSS 2.0](#) [RSS](#)

Ítems en la colección (ordenados por Fecha de envío en orden Descendente): 1 a 20 de 20

Derechos	Preview	Fecha Public.	Título	Autor(es)	Tipo
8-oct-2020	Deep high resolution seismic reflection profile IBSESEIS NI: Migrated and stack files	Pérez-Estaún, Andrés ; Simancas, José Fernando; González-Lodeiro, Francisco; Ayarza, P.; Azor, Antonio ; Juhlin, C.; Sáez, R.; Almodóvar, G. R.; Carbonell, Ramón	dataset
17-sep-2020	The ILIHA deep seismic sounding experiment (Iberian Lithosphere Heterogeneity and Anisotropy)	Díaz, J. ; Gallart Muset, Josep ; Córdoba, Diego ; Senos, L.; Matias, L.; Suriñach, Emma; Hirn, A.; Maguire, P.	dataset
17-jun-2020	Seismic Imaging of the Moroccan Atlas (SIMA): a wide-angle reflection profile	Ayarza, P.; Teixell, A.; Carbonell, Ramón	dataset

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Every dataset is presented in the format of a publication.

DC

Producción CSIC

Pasarela

Estadísticas

Contacto

Buscar en DSpace

(Geo3Bcn) SeisDARE : [20]

Buscar

Fecha Publicación

Autor

Título

Palabras Clave

Agencia Financiadora

Fecha Envío

Suscribirse para recibir un email cada vez que se grabe un nuevo ítem en esta colección.

Suscribir

RSS 1.0

RSS 2.0

RSS

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DC Producción CSIC Pasarela Estadísticas Contacto

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Buscar

Fecha Publicación Autor Título Palabras Clave Agencia Financiadora Fecha Envío

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3. DIGITAL.CSIC FACILITIES

An index card summarizes the main characteristics of the dataset.

Dataset title and objectives

Dataset location
Geographical location, tectonic setting, geological map

Record example
Example image of the data (shot-gathers or stacks)

Main references
References to published peer-reviewed articles featuring the data

Dataset characteristics
Content of the dataset, acquisition information, data format

Funding information
Funding agencies and grant codes

IBERSEIS wide-angle reflection experiment
A wide-angle reflection experiment to constrain the physical properties for the lithosphere across the SW Iberian Massif.

General information:

- Two NE-SW wide-angle seismic reflection profiles.
- Acquired in 2003.
- Total length of 300 and 330 km.
- File format: SEG-Y

Technical specifications:

- Receiver type: single component, 10 Hz
- Receiver interval: 150 and 400 m
- Source: 9 shots
- 500-1000kg of chemical explosive each

Setting:

- South of Spain
- Southern Iberian Massif: South Portuguese Zone, Ossa-Morena Zone and southern Central Iberian Zone.

Example of the data:

Main references:

- Ayarza et al. (2010), doi:10.1016/j.pepi.2010.05.004
- Flecha et al. (2009), doi:10.1016/j.tecto.2008.05.033
- Palomeras et al. (2003), <http://dx.doi.org/10.20350/digitalCSIC/9018>
- Palomeras et al. (2009), doi:10.1029/2007JB005050
- Palomeras et al. (2011), doi:10.1029/2011GC003577

Funding agencies:

- Spanish Ministry of Science and Innovation: CGL2004-04623, CSD2006-00041.
- Generalitat de Catalunya: 2005SGR000874.
- Junta de Andalucía.

DC

Producción CSIC ▾ Pasarela Estadísticas Contacto

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(Geo3Bcn) SeisDARE : [20]

Agencia Financiadora Fecha Envío

esta colección. Suscribir RSS 1.0 RSS 2.0 RSS

de envío en orden Descendente): 1 a 20 de 20

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Ayarza, P.; Teixell, A.; Carbonell, Ramón	dataset

Index card

17-jun-2020

Seismic Imaging of the Moroccan Atlas (SIMA): a wide-angle reflection profile

Ayarza, P.; Teixell, A.; Carbonell, Ramón

dataset

3. DIGITAL.CSIC FACILITIES

Scholia facilities are implemented, linking datasets with publications

DataCite Search Works People Repositories Members Support Irene DeFelipe -

10.20350/digitalCSIC/9016 Search

2 Works

Deep seismic reflection profile (IBERSEIS Normal Incidence Transect)
Andrés Pérez-Estaún, José Fernando Simancas, Francisco González-Lodeiro, P. Ayarza, Antonio Azor, C. Juhlin, R. Sáez, G. R. Almodóvar & Ramón Carbonell
Dataset published via DigitalCSIC
"IBERSEIS is a 303 km long deep seismic reflection profile. The transect was recorded in 56 days (from May to July 2001) using a 400 channel SERCEL 388 and five 22 Ton Vibroseis trucks. The asymmetric split spread configuration changed along the profile according to the dips of outcropping structures. To achieve a high resolution at shallow levels and to image steep dips, a 35 m station spacing and a 70 m Vibration Point interval...

Registration Year

☐ 2020	1
☐ 2019	1

Resource Types

☐ Other	2
--------------------------------	---

Deep high resolution seismic reflection profile IBERSEIS NI: Migrated and stack files
Andrés Pérez-Estaún, José Fernando Simancas, Francisco González-Lodeiro, P. Ayarza, Antonio Azor, C. Juhlin, R. Sáez, G. R. Almodóvar & Ramón Carbonell
Dataset published via DIGITAL.CSIC
Carbonell, Ramón; ramon.carbonell@csic.es

<https://doi.org/10.20350/digitalcsic/9016> Cite

<https://doi.org/10.20350/digitalcsic/12643> Cite

<https://search.datacite.org/works?query=10.20350%2FdigitalCSIC%2F9016>

4. OVERVIEW OF SeisDARE

Aware of the value of seismic data, ICTJA researchers developed an online database:

GEODB

The screenshot shows the GEODB website interface. At the top left is the CSIC logo. At the top right is the text "Institut de Ciències de la Terra 'Jaume Almera'" and "Department of Structure & Dynamics of the Earth". Below this are links for "IberArray Seismic Network" and "EDTArray Seismic Network". A navigation bar contains "HOME", "LOGIN", and "register". The main content area is divided into two columns. The left column contains four dropdown menus: "Projects" (with options: IBERSEIS, VALSIS, MARCONI, RG2_PRESTIGE, INTERGEO), "Data types" (with options: aeromagnetic, images, miscellaneous, seismic, well), "Year" (with options: All Years, 1961, 1962, 1969-1970, 1981), and "Area" (with options: All Areas, Alcudia, Betics, Cantabrian Zone). Below these is a "GO!" button and a "RESET" button. The right column contains a paragraph of text about the repository, a list of instructions for downloading data, and a small preview of the search results showing "seismic" data for "All Years" and "All Areas".

Projects

- IBERSEIS
- VALSIS
- MARCONI
- RG2_PRESTIGE
- INTERGEO

Data types

- aeromagnetic
- images
- miscellaneous
- seismic
- well

Year

- All Years
- 1961
- 1962
- 1969-1970
- 1981

Area

- All Areas
- Alcudia
- Betics
- Cantabrian Zone

GO! RESET

This is part of the Geophysical data repository of the Research group on the Structure and Dynamics of the Earth. The research group has been involved in some or all aspects of this data (acquisition, analysis, processing, interpretation). This data base has been built as to preserve the data and to make it publicly available. All the data in this server can be accessed and downloaded freely after registration. The registration is just a way to demonstrated that this data repository is useful and gets accessed by different research groups. We kindly ask that if you use this data in some way please acknowledge this repository and include its web address: <http://geodb.ictja.csic.es>

This repository holds limited aeromagnetic and well log data and a relatively large amount of active source seismic data. The seismic reflection & refraction data is mostly in SEG Y format. Different stages of its processing sequence, raw data, stacks, migrated images have been stored when they were available.

To download:

- 1) identify the project,
- 2) the type/s of data/s and
- 3) the year/s and area/s.

Then register by providing your Name, Institution Affiliation, Source Project (IAM, ESCL, etc) and email.

You will get a user name and password in 24 h.

Again please acknowledge this repository and include its web address <http://geodb.ictja.csic.es>.

4. OVERVIEW OF SeisDARE

Statistics

Title, authors, key words

Abstract and references

DOI

Access to the data and metadata

DIGITAL.CSIC / Recursos Naturales / Instituto de Ciencias de la Tierra Jaume Almera (ICTJA) / (ICTJA) Conjuntos de datos

English español

Please use this identifier to cite or link to this item: <http://hdl.handle.net/10261/167231>

Share/Impact:

See citations in Google Scholar

Visualizar otros formatos: MARC | Dublin Core | RDF | ORE | MODS | METS | DIDL

Exportar a otros formatos: Endnote

Title: Multichannel seismic reflection and wide-angle and refraction data acquisition along the Iberia Atlantic Margins

Authors: Torne, Montserrat; Banda, E.; Sibuet, J.C.; Mendes-Victor, L.; Senos, M. L.; Long, R.; Watts, A. B.

Keywords: field processed; Seismic Active MCS; Seismic Reflection; Seismic Refraction

Issue Date: Jun-2018

Citation: Torne, Montserrat; Banda E.; Sibuet, J. C.; Mendes-Victor, L.; Senos, M. L.; Long, R.; Watts, A. B. 2018. "Multichannel seismic reflection and wide-angle and refraction data acquisition along the Iberia Atlantic Margins", DIGITAL.CSIC, <http://dx.doi.org/10.20350/digitalCSIC/8549>

Abstract: The Iberian Atlantic Margins (IAM) project is a multinational research programme, coordinated by the Institute of Earth Sciences of Barcelona, CSIC (Spain). It involves different academic institutions of Britain (University of Oxford and University of Durham), France (IFREMER), Portugal (University of Lisbon and Institute of Meteorology of Lisbon) and Spain (Institute of Earth Sciences of Barcelona, CSIC) and more than 40 associated scientists of European institutions attached to the main contractors. The project, financed by the European Community within its JOULE-Programme (Contract# JOU2-CT92-0177), aims to explore the deep continental and oceanic Atlantic margins of Iberia for a better understanding of the formation and evolution of Atlantic type margins, outstanding structural features and potential location of hydrocarbons and other natural resources. The project was designed to acquire deep seismic multichannel data and onshore recording of wide angle and refraction data along the North Iberian margin; the West Iberia margin, including the Galicia margin, the Iberia and Tagus abyssal plain, and the continental shelf off Portugal; and the Gorringe Bank region and Gulf of Cadiz. The experimental part of the study consisted of the acquisition of over 3700 km of near vertical incidence deep seismic multichannel reflection data. This together with wide angle reflection and refraction data recorded by land stations and OBS (Ocean Bottom Seismometers) has resulted in a full coverage in terms of crustal structure and velocity information of the study region.

Description: The data acquisition contract was awarded to GECO-PRAKLA and took place in August-September 1993 aboard M/V Geco Sigma. Seismic data was successfully collected along the Cantabrian Margin, Galicia Margin, Iberian Abyssal Plain, the continental platform of Western Iberia, Tagus Abyssal Plain, the Gorringe Bank and Gulf of Cadiz. Data for the 240 km long line IAM-12 was acquired in February 1993 by SEISQUEST vessel of GECO-PRAKLA. The total amount of seismic reflection data collected was 3808.175 km in 19 track lines offshore. Technical specifications of the profiles: Streamer length 4800 m, Number of channels 192, Group interval 25 m, Shotpoint interval 75 m (100 m and 150 m on line IAM-ZW), Source 7424 in3 (Record length 25 seconds), Sample rate 4 ms. Contact person: Torne, M., mtorne@ictja.csic.es.

URI: <http://hdl.handle.net/10261/167231>

DOI: <http://dx.doi.org/10.20350/digitalCSIC/8549>

References: Torne, Montserrat; Banda E.; Sibuet, J.C.; Mendes-Victor, L.; Senos, M.L.; Long, R.; Watts, A. B., Iberian Atlantic Margins (IAM project), Report, DIGITAL.CSIC, <https://digital.csic.es/handle/10261/167037>.

Appears in Collections: (ICTJA) Conjuntos de datos

Files in This Item:

File	Description	Size	Format	View/Open
Seismic_data_IAM-metadata.xlsx	Common and specific metadata file	74.11 kB	Microsoft Excel XML	View/Open
Readme_IAM.txt	Dataset general information	3.25 kB	Text	View/Open
IAM-T1.rar	IAM-T1 Data line	3.33 GB	Unknown	View/Open
IAM-T2.rar	IAM-T2 Data line	3.02 GB	Unknown	View/Open
IAM-ZWA.rar	IAM-ZWA Data line	3.28 GB	Unknown	View/Open

Direct download

No registration needed!

4. OVERVIEW OF SeisDARE

Statistics

Item view counts

Region	Country	City	Item	Time
				Guardar como PNG Guardar como JPEG
Trabajos más visitados				#
ID: 346813 - Multichannel seismic reflection and wide-angle and refraction data acquisition along the Iberia Atlantic Margins				558
ID: 347450 - Dataset of glass and mineral geochemical data of Holocene volcanic ashes of NW Argentina				468
ID: 347459 - Dataset of particle size distribution data of Holocene volcanic ashes of NW Argentina				450
ID: 357685 - Regional centroid moment tensors for earthquakes in the 2016 South Alboran seismic crisis				425
ID: 372886 - Lithospheric Structure of the Cantabrian Margin - Bay of Biscay (MARCONI)				317
ID: 359655 - Characterization of the 3D internal structure of the Alhama de Murcia Fault (FAM) in the segments Gofar-Lorca, Lorca-Totana and Totana-Alhama				286
ID: 374261 - Deep seismic reflection profile (ALCUDIA Normal Incidence transect)				285
ID: 346005 - Dataset of total and nitric acid soluble element concentrations from stream sediments of the Upper Garonne Basin, Val d'Aran, Central Pyrenees				282
ID: 359780 - High resolution seismic characterization of the shallow subsurface of the Loranca Basin (Spain): high resolution 3D				268
ID: 364302 - Apatite fission track and zircon (U-Th)/He dataset in the eastern Basque-Cantabrian Zone - western Pyrenees				260
ID: 377203 - Seismic Study of the Iberian Crust, ESCI Valencia Trough survey				252
ID: 359661 - SIT4ME: Innovative seismic imaging techniques for mining exploration - Sotiel-Elvira (Spain) dataset				245
ID: 371828 - Regional centroid moment tensors for earthquakes in the 2013 CASTOR gas storage seismic crisis				236
ID: 395376 - Seismic imaging of the Moroccan Atlas (SIMA): a wide-angle reflection profile				226
ID: 374219 - Deep seismic reflection profile (IBSERSEIS Normal Incidence Transect)				222
ID: 359778 - High resolution seismic characterization of the shallow subsurface of the Loranca Basin (Spain): local 2D transects				212
ID: 374280 - Wide-angle deep seismic reflection profile (IBSERSEIS Wide-Angle Transect)				206
ID: 376633 - Seismic Study of the Iberian Crust, ESCI-Betics survey				202
ID: 376199 - 3D reflection seismic imaging of the Hontomin CO2 storage site				196
ID: 374290 - Wide-angle deep seismic reflection profile (ALCUDIA Wide-Angle Transect)				193
ID: 378031 - CIMDEF: a wide-angle deep seismic reflection profile in the Central Iberian Zone				178

Item view counts by time

4. OVERVIEW OF SeisDARE

Technical aspects of the data

- Seismic data comprises Deep Seismic Sounding (DSS) and high resolution data acquired by normal incidence or wide-angle reflection
- Acquisition: profile of recording stations (receivers) and shot points (sources)
- Data processing applied
- Data format: SEGY or SU

<http://labsis.ictja.csic.es/index2.php/>

5. GEOLOGICAL SETTING

SeisDARE comprises (until now)
20 seismic datasets of:

- DSS and high-resolution
- NI and WA reflection
- Onshore and offshore

5. GEOLOGICAL SETTING

Crustal structure along the Iberian Peninsula and Morocco.

DeFelipe et al. (discussion)

6. EXAMPLE: DSS DATASET

IBERSEIS-NI

Raw dataset

Processed dataset

Different linked DOIs

6. EXAMPLE: DSS DATASET

IBERSEIS-NI

Raw dataset

Processed dataset

Different
linked DOIs

Título:	Deep high resolution seismic reflection profile IBERSEIS NI: Migrated and stack files
Autor:	Pérez-Estaún, Andrés , Simancas, José Fernando; González-Lodeiro, Francisco; Ayarza, P.; Azor, Antonio ; Juhlin, C.; Sáez, R.; Almodóvar, G. R.; Carbonell, Ramón
Fecha de publicación:	8-oct-2020
Editor:	DIGITAL.CSIC
Citación:	Pérez-Estaún, A., Simancas, J. F., González Lodeiro, F., Ayarza, P., Azor, A., Juhlin, C., Sáez, R., Almodóvar, G. R., and Carbonell, R.; 2001; "Deep high resolution seismic reflection profile IBERSEIS NI: Migrated and stack files. [Dataset]"; DIGITAL.CSIC; http://dx.doi.org/10.20350/digitalCSIC/12643
Resumen:	This is an update of the IBERSEIS Normal Incidence dataset (http://hdl.handle.net/10261/193954). The current version includes the migrated and stack files of the raw data of the IBERSEIS-NI profile.
Descripción:	IBERSEIS-NI raw data: http://dx.doi.org/10.20350/digitalCSIC/9016 ; http://hdl.handle.net/10261/193954
URI:	http://hdl.handle.net/10261/220989
DOI:	http://dx.doi.org/10.20350/digitalCSIC/12643

6. EXAMPLE: DSS DATASET

IBERSEIS-WA

2 WA profiles complement the NI profile
Vp, Vs and Poisson's ratio models

IBERSEIS-WA (Palomeras et al., 2003)

6. EXAMPLE: HIGH RESOLUTION DATASET

VICANAS 3D

One of the best example of reuse of HR data
Acquired in 2014 and reprocessed in 2020

Acquisition geometry (Marzán et al., 2014; Martí et al., 2019)

Shot gather example

6. EXAMPLE OF INTERNATIONAL COLLABORATION

COCORP

Pioneer in the use of multichannel seismic reflection for exploration of the lithosphere.

In 1975, 37 km of deep seismic profiling were acquired in Texas.

Cornell University

Institute for the Study of the Continents (INSTOC)

Consortium for Continental Reflection Profiling (COCORP)

<http://www.geo.cornell.edu/geology/cocorp/COCORP.html>

Oliver and Kaufman (1975)

7. STEPS TO UPLOAD DATA

COMPARTIR / IMPACTO

SHARE
 BASE
 Mendeley

Ver citas en Google académico

Visualizar otros formatos: MARC | Dublin Core | RDF | ORE | MODS | METS | DIDL

Exportar a otros formatos:

Endnote

Ir

Estadísticas

Comparte tu historia de Acceso Abierto

Título:	Deep seismic reflection profile (ALCUDIA Normal Incidence transect)
Autor:	Pérez-Estaún, Andrés Simancas, José Fernando; González-Lodeiro, Francisco; Ayarza, P.; Azor, Antonio Martínez Poyatos, D.; Carbonell, Ramón
Fecha de publicación:	5-nov-2019
Editor:	DIGITAL.CSIC
Citación:	Pérez-Estaún, A., Simancas, J. F., González Lodeiro, F., Ayarza, P., Azor, A., Martínez Poyatos, D., and Carbonell, R.; 2007; "Deep seismic reflection profile (ALCUDIA Normal Incidence transect) [Dataset]"; DIGITAL.CSIC; http://dx.doi.org/10.20350/digitalCSIC/9049

7. STEPS TO UPLOAD DATA

1) Prepare your own data

- 2) Metadata
- 3) Provide a description of the files included
- 4) Readme file summarizing all the above information

ALCUDIA-NI (Pérez-Estaún et al., 2007)

SIMA (Ayarza et al., 2010)

INTERGEO (Martí et al., 2015)

7. STEPS TO UPLOAD DATA

1) Prepare your own data

2) Provide rich metadata: authors with affiliation, contact information, abstract, technical information, date and place of acquisition, references (especially for legacy data), financial organisations. Embargo needed?

3) Provide a description of the files included

4) Readme file summarizing all the above information

	A	B	C	D
1	Common Metadata			
2				
3	Bold headings indicate MANDATORY fields		DCMI Element	Comment
4				
5	Resource Information			
6				
7	DOI		dc.identifier.doi	Generated by Repository
8	URI	http://hdl.handle.net/.....	dc.identifier.uri	Generated by Repository
9	Publisher		dc.publisher	Generated by Repository (e.g., Digital.CSIC)
10	Publication date (AAAA-MM-DD)		dc.date.issued	Generated by Repository
11	Created		dc.date.created	
12	Resource type (always Dataset)	Dataset	dc.type	"Dataset"
13	Title	Litospheric Structure of Cantabrian Margin - Bay of Biscay (MARCONI)	dc.title	If this dataset is a new version, include it in title (e.g., v2.4)
14	Language of dataset (ISO 639-1 Code)	eng	dc.language.iso	see Tab 3 CM Vocabularies/Language name, e.g. eng for English

	A	B	C
1	Specific Metadata		
2			
3	Bold headings indicate MANDATORY fields		
4			
5			
6	Seismic data - properties		
7			
8	dataClass #1	Field	Level of processing, see Tab 4 SM Vocabularies/dataClass, e.g. field
9	dataClass #2		Level of processing, see Tab 4 SM Vocabularies/dataClass, e.g. field
10			
11	Fill more rows if necessary		
12			
13	dataType #1	Seismic:Active:MCS	Kind of data differentiated by the type of receiver or source.see Tab 4 SM Vocabularies/dataClass, e.g. Seismic:Active:MCS
14	dataType #2		Kind of data differentiated by the type of receiver or source.see Tab 4 SM Vocabularies/dataClass, e.g. Seismic:Active:MCS
15			
16	Fill more rows if necessary		

7. STEPS TO UPLOAD DATA

- 1) Prepare your own data
- 2) Metadata

3) Provide a description of the files included

- 4) Readme file summarizing all the above information

	B	C
1		
2	File/Folder	Description
3	Seismic_data_COCORP Texas-metadata.xlsx	Common and specific metadata file
4	Readme_COCORP Texas	Readme file
5	TX L1,2,3_Map	Map with location of the three lines
6		
7	COCORP Texas Line 1:	
8	TX01_Acquisition Parameters	Summary of the acquisition parameters for line Texas 1
9	TX01_Observer Notes	Observer's report Digital Vibroseis Recorder for line Texas 1
10	TX01_Survey Notes	Survey notes for line Texas 1
11	TX01_Correlated Shot Gathers 12-90.segy	Shot gathers (12-90) in segy format for line Texas 1
12	TX01_Stack.segy	Common midpoint stack section in segy format for line Texas 1
13		
14	COCORP Texas Line 2:	
15	TX02_Acquisition Parameters	Summary of the acquisition parameters for line Texas 2
16	TX02_Observer Notes	Observer's report Digital Vibroseis Recorder for line Texas 2
17	TX02_Survey Notes	Survey notes for line Texas 2
18	TX02_Correlated Shot Gathers 91-138.segy	Shot gathers (91-138) in segy format for line Texas 2
19	TX02_Stack.segy	Common midpoint stack section in segy format for line Texas 2

7. STEPS TO UPLOAD DATA

- 1) Prepare your own data
- 2) Metadata
- 3) Provide a description of the files included
- 4) Readme file summarizing all the above information**

The screenshot shows a WordPad window titled "Readme_ILIHA.txt - WordPad". The window contains a README file with the following text:

```
Title of dataset: The ILIHA deep seismic sounding experiment
(Iberian Lithosphere Heterogeneity and Anisotropy)

Author: Díaz, J., Gallart, J., Córdoba, D., Senos, L., Matias,
L., Surifach, E., Hirn, A., and Maguire, P.

Contact details: Díaz, J., jdiaz@geo3bcn.csic.es

Issue date: 10/1989

Identifier: http://hdl.handle.net/...

Citation: Díaz, J., Gallart, J., Córdoba, D., Senos, L.,
Matias, L., Surifach, E., Hirn, A., and Maguire, P. The ILIHA
deep seismic sounding experiment (Iberian Lithosphere
Heterogeneity and Anisotropy). DIGITAL.CSIC, ://dx.doi.org/...

Description: The ILIHA (Iberian Lithosphere Heterogeneity and
Anisotropy) Project was designed to be a large-scale test for
vertical and lateral heterogeneity and seismic anisotropy in
the subcrustal lithosphere over the Variscan domain of the
Iberian Peninsula. It consists of a star-shaped arrangement of
six long-range deep seismic sounding profiles, acquired in
1989.

Access and reuse: CC BY 4.0

Referring articles:
Díaz, J., Hirn, A., Gallart, J., and Abalos, B. (1996). Upper-
mantle anisotropy in SW Iberia from long-range seismic
profiles and teleseismic shear-wave data. Physics of the Earth
```

7. STEPS TO UPLOAD DATA

DOI

Linked datasets

Enter the statistics
reference framework

Easily searched

Promote reuse of data

New interpretations

Make the most of the data

8. FUTURE PERSPECTIVE OF OPEN ACCESS

But only seismic data?

DC CSIC Research Pasarela Statistics Contact		
Collections in this community		
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(Geo3Bcn) Comunicaciones congresos [734]
(Geo3Bcn) Conjuntos de datos [6]
(Geo3Bcn) Cursos-Material didáctico [61]
(Geo3Bcn) Informes y documentos de trabajo [18]
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8. FUTURE PERSPECTIVE OF OPEN ACCESS

But only seismic data?

Not only!

DC CSIC Research Pasarela Statistics Contact	
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(Geo3Bcn) Conjuntos de datos [6]	Datasets
(Geo3Bcn) Cursos-Material didáctico [61]	Teaching material
(Geo3Bcn) Informes y documentos de trabajo [18]	Project reports
(Geo3Bcn) Libros y partes de libros [201]	Books
(Geo3Bcn) Material de divulgación [16]	Outreach material
(Geo3Bcn) Memorias [9]	Reports
(Geo3Bcn) Patentes [2]	Patents
(Geo3Bcn) Programas informáticos [1]	Software and scripts
(Geo3Bcn) SeisDARE [20]	SeisDARE
(Geo3Bcn) Tesis [71]	Thesis

8. FUTURE PERSPECTIVE OF OPEN ACCESS

- A continued collaboration is needed to make available seismic data, specifically legacy data.
- Data need to be available in the moment of publication (or at least the metadata).
- Additionally, specific journals are focused on the description of databases

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Open
Access

Data in Brief

Editors-in-Chief: Hao-Ran Wang, Ganhui Lan

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9. CONCLUSIONS

THANKS

If you wish to upload your data in collaboration with us

Contact us!

idefelipe@geo3bcn.csic.es

irene.defelipe@gmail.com