



## Roberto Cabièces Díaz

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<https://robertocabieces.com>

Born in 1983- Spanish nationality

### ***Head of Geophysics Department in the Spanish Navy Observatory***

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#### *Research Interests*

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Data Science, Seismic Ambient Noise Tomography, Source Earthquake Seismology and Software Development

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#### *Current position*

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Head of Geophysics Department in the [Spanish Navy Observatory](#).

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#### *Education*

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| 2021      | <b>PhD</b> , Universidad Complutense Madrid (Spain)                     |
| 2017      | International Training Course at GFZ, Germany                           |
| 2015-2016 | Universidad Complutense de Madrid, <b>Master's degree in Geophysics</b> |
| 2012-2015 | Spanish Navy Observatory, Master's degree in Astronomy and Geodesy      |
| 2005-2010 | Spanish Navy Academy, Degree as a <b>Navy Officer</b>                   |

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## *Research Experience*

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2021- continue. Upward mantle Flow from novel seismic observations. IP Ana Ferreira

2021 - continue. Geodynamic processes and natural hazards in the Canary archipelago (GUANCHE project). IP Antonio Villaseñor

2021 – continue. Atlantic-North -África Lithosphere three-dimensional imaging study (ATLANTIS project) IP Arantza Ugalde

2020 – 2022. Landslide Assessment in the Spanish Navy Observatory (LASNO project). **IP Roberto Cabieces**

2019 – 2021. Lithospheric structure and Geodynamics at Powell-Drake-Bransfield Rift (ElGeoPower project). IP Manuel Catalán

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## *Work Experience*

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2023 – Current Work Spanish Navy Observatory, Head of Geophysics Department

2016 – 2023 Spanish Navy Observatory, Head of Seismology Department

2012 – 2016 Spanish Navy Observatory, Seismology Department (Professor)

2010 - 2012 Spanish Navy Aircraft Carrier, Operations Officer

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## *Software Developed*

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surfQuake\_2024

Integrated Seismic Program 2022

cwt-seismology 2021

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## Recent Publications

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**Cabieces, R.**, Villaseñor, A., Berg, E., Olivar-Castaño, A., Arnaiz, M., Ventosa, S & Ferreira, A (2022). [Upper Lithosphere structure of northeastern Venezuela from joint inversion of surface waves dispersion and receiver functions.](#) *Solid Earth*.

**Cabieces, R.**, Olivar-Castaño, A., Correira, T., Relinque, J., Fernandez-Prieto, L. Vackár, J., Rösler, B., Barco, J. & García-Martínez L. (2022). [Integrated Seismic Program \(ISP\): A new Python GUI for earthquake seismology and seismic signal processing.](#) *Seismological Research Letters*.

**Cabieces, R.** [Estudio de la Fuente Sísmica con estaciones en tierra y mar / Study of the seismic source using onshore and ocean stations.](#) (2021). **PhD thesis.** Universidad Complutense de Madrid.

**Cabieces, R.**, Krüger, F., Garcia-Yeguas, A., Villaseñor, A., Buforn, E., Pazos, A., Olivar-Castaño, A. & Barco, J (2020) [Slowness vector estimation over large-aperture sparse arrays with the Continuous Wavelet Transform \(CWT\): Application to Ocean Bottom Seismometers,](#) *Geophysical Journal International*.

**Cabieces, R.**, Buforn, E., Cesca, S & Pazos, A (2020) [Focal Parameters of Earthquakes Offshore Cape St. Vincent Using an Amphibious Network.](#) *Pure and Applied Geophys.* 177, 1761–1780

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## Computer Skills

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OS

Programing Languages

GUI

Database

Mapping & GIS

Unix (Linux & OS X)

**Python 3**, Matlab and C++

**PyQt** & QtDesigner

**SQLite** and SQLAlchemy

**GMT** and **QGIS**

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## *Languages*

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English	<b>NATO SLP 3.3.3.3</b> (Cambridge Advanced Certificate)
German	Basic knowledge
Spanish	Native language

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## *Teaching Experience*

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<b>Academic Year</b>	<b>Subject</b>
2021 - 2024	Principles of Seismology
2019 - 2024	Digital Signal Processing
2016 - 2019	Math. Analysis