



Madeira Island site: The GeoLab fibre

Copenhagen, April 15th, 2026

www.submerse.eu



Co-funded by
the European Union

3X.2023 Dataset



www.submerse.eu



3X.2023 Dataset



Continuous OptoDAS data from GeoLab

(57 km-long, dark fibre with land, coastal, and deep sea segments)

- 11380 channels
- 500 Hz sampling rate
- 10.2 m gauge length
- 5.1 m spacing
- 50 μ s sweep length
- 26/10/2023 to 03/11/2023

Open Access since 2026

Hosted at GEOFON

Stations in this Network



3X.2023 Dataset



Raw data (HDF5 – 7 TB):

- 11380 channels
- 500 Hz sampling rate
- 10.2 m gauge length
- 5.1 m spacing

Decimated data (miniSEED – 30 GB):

- 555 channels
- 250 Hz sampling rate
- 102 m spacing

Station Code	Station Name	Latitude	Longitude	Start	End	Data Center(s)
G0102	GeoLAB fibre. DAS HSF channel no.01021	32.644	-16.944	2023-10-26	2023-11-03	GEOFON
G0112	GeoLAB fibre. DAS HSF channel no.01123	32.644	-16.944	2023-10-26	2023-11-03	GEOFON
G0122	GeoLAB fibre. DAS HSF channel no.01225	32.644	-16.944	2023-10-26	2023-11-03	GEOFON
G0132	GeoLAB fibre. DAS HSF channel no.01327	32.645	-16.943	2023-10-26	2023-11-03	GEOFON
G0142	GeoLAB fibre. DAS HSF channel no.01429	32.645	-16.942	2023-10-26	2023-11-03	GEOFON
G0153	GeoLAB fibre. DAS HSF channel no.01531	32.646	-16.942	2023-10-26	2023-11-03	GEOFON
G0163	GeoLAB fibre. DAS HSF channel no.01634	32.646	-16.943	2023-10-26	2023-11-03	GEOFON
G0172	GeoLAB fibre. DAS HSF channel no.01726	32.646	-16.944	2023-10-26	2023-11-03	GEOFON

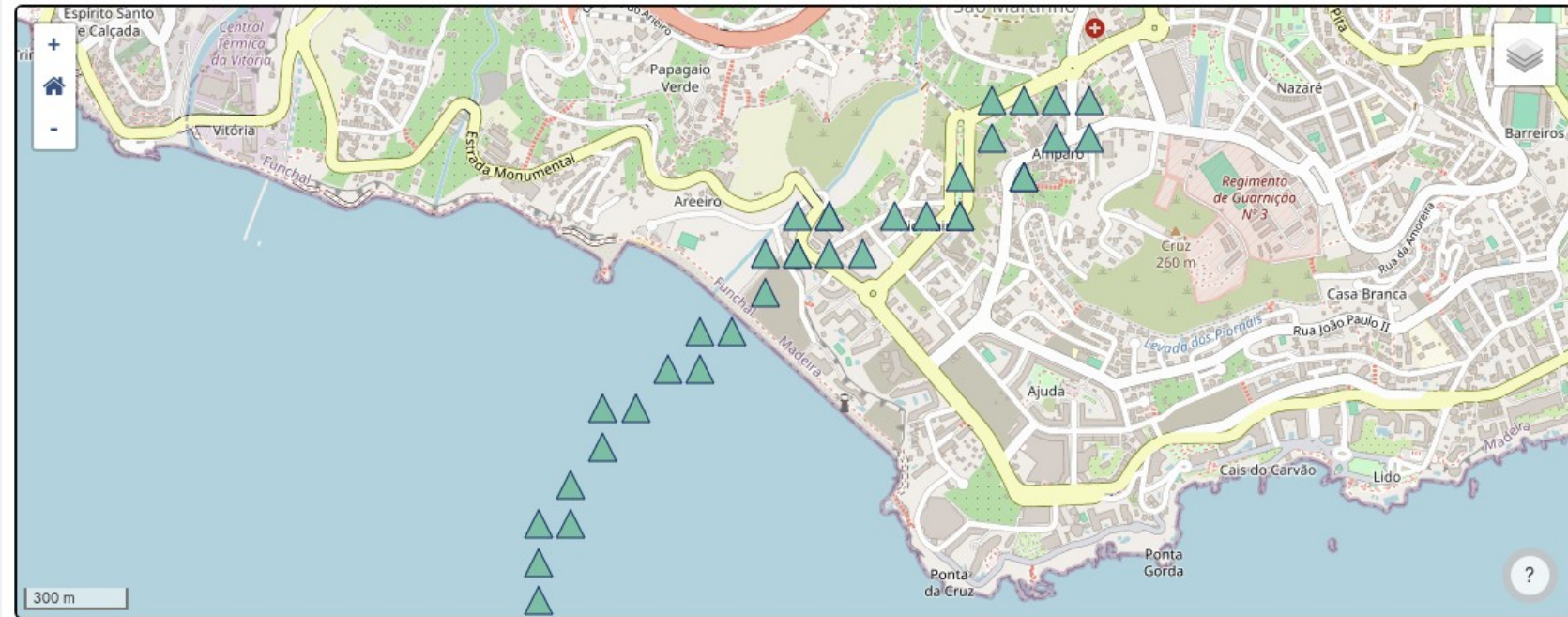
3X.2023 Dataset

Coordinates are obfuscated for security

The provided coordinates have been degraded to a precision of around 200 metres, consistent with those available from public documents and official cartography sources

For better coordinates, NDAs with the cable operator are required

GeoLab



Legend: Current stations:  open access |  restricted. Former stations:  open access |  restricted.

 KML