New developments on Biscay-AGL Observatory. From derived products to sensor networks.

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Introduction

The Santander standard section has been running from early 90’s as a series of monthly hydrographical series under the broader IEO program RADIALES. This program was devised to provide hydrographical and biogeochemical series in marine waters around Spain. The sampling scheme was designed to perform the sampling typically in 1-day journeys assisted by small ships, therefore the main focus was in the continental shelf. However, due to the proximity of the shelf-break in front of the city of Santander (SE Bay of Biscay), it was possible to gather a monthly series of intermediate waters since early 90’s in the outer stations. The sampling was limited to 1050 m until late 2007, then it was extended to 1500 m and since 2014, after the construction of a larger regional ship, RV Ramón Margalef, that is in charge of the sampling, it covers the full-depth 2400 m.

The Augusto González de Leóns oceanographic buoy named after the Santander Oceanographic Center founder in 1846 was set close to Station 7, the first deep water station of the Santander Standard Section. The section covers shelf, slope and deep waters. Both systems form part of the Spanish Institute of Oceanography Observing System (IEEOS) which provides quality controlled data and information about Spanish surrounding waters and comprehends several subsystems.

Products are elaborated from data both of the Buoy and the monthly cruise. Below there are some samples.

Biscay AGL Buoy Data Series

The following figure shows some samples of data series obtained from the AGL Buoy [3,4].

Santander Standar Section. Station 6

Station 6 is located at 43º 42.7’ N, 003 47’ W at a depth of 850 m, very close to the shelf-break and have been monthly sampled since May 1992. It can be considered representative of continental slope conditions in thethern Bay of Biscay.

Derived Products

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References


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Location

Biscay AGL Buoy Data Series

Santander Standar Section. Station 6

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