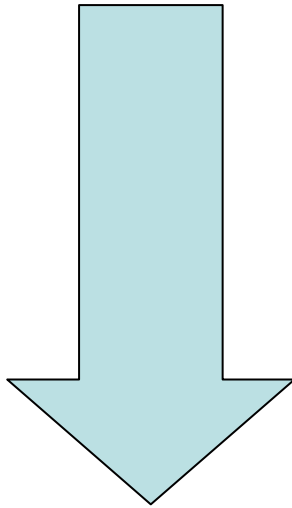
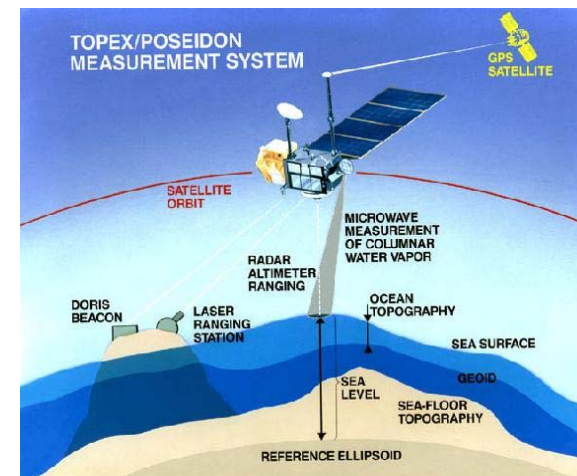


European SEA level Service



ESEAS

a way to European sea level data,
information and derived products

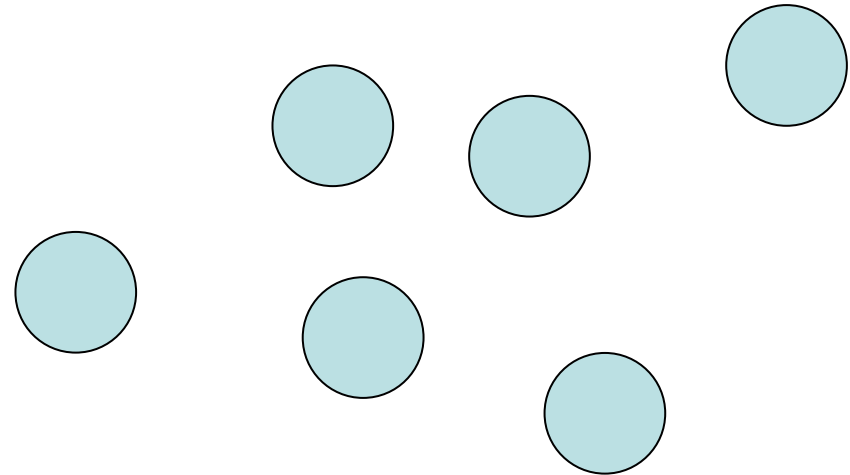


The user of sea level data in Europe faced:

Scattered data

Scattered access

Different formats



No operation standards

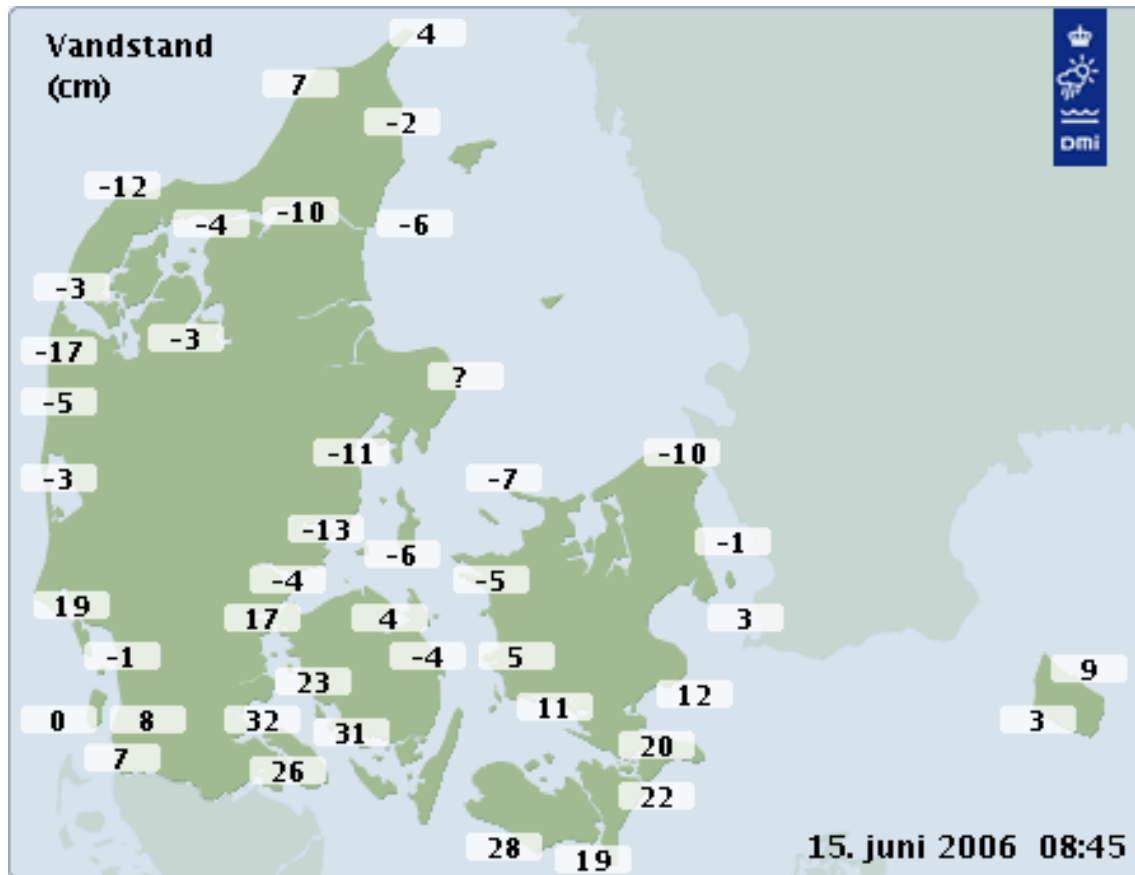
No quality assurance standards

No co-ordination of observations

No standards for products and information

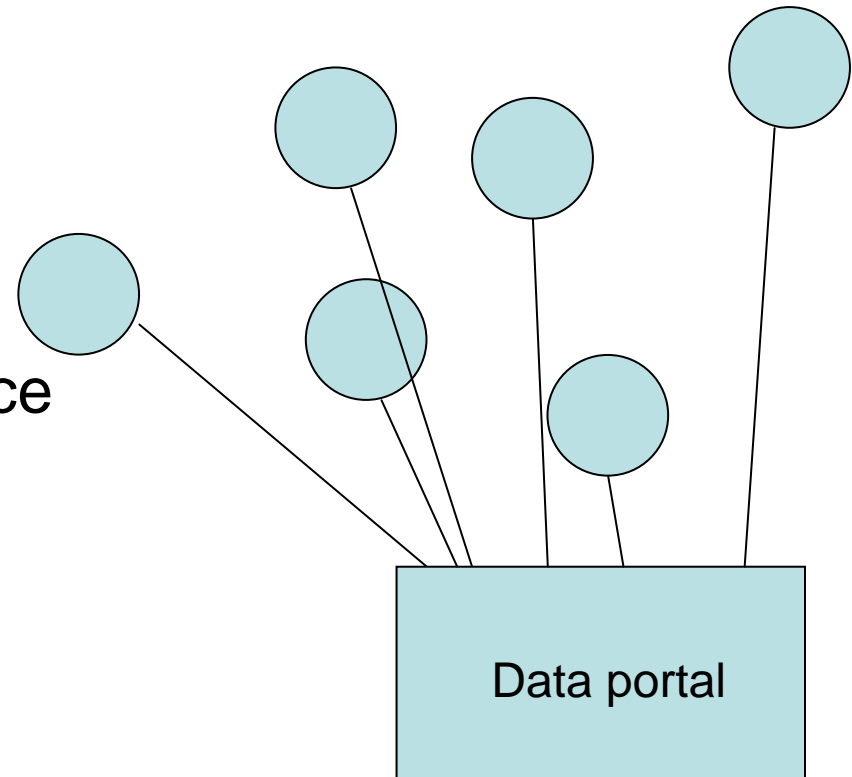
Tide gauges in Denmark are operated by different organisations

80 tide gauges in Danish waters



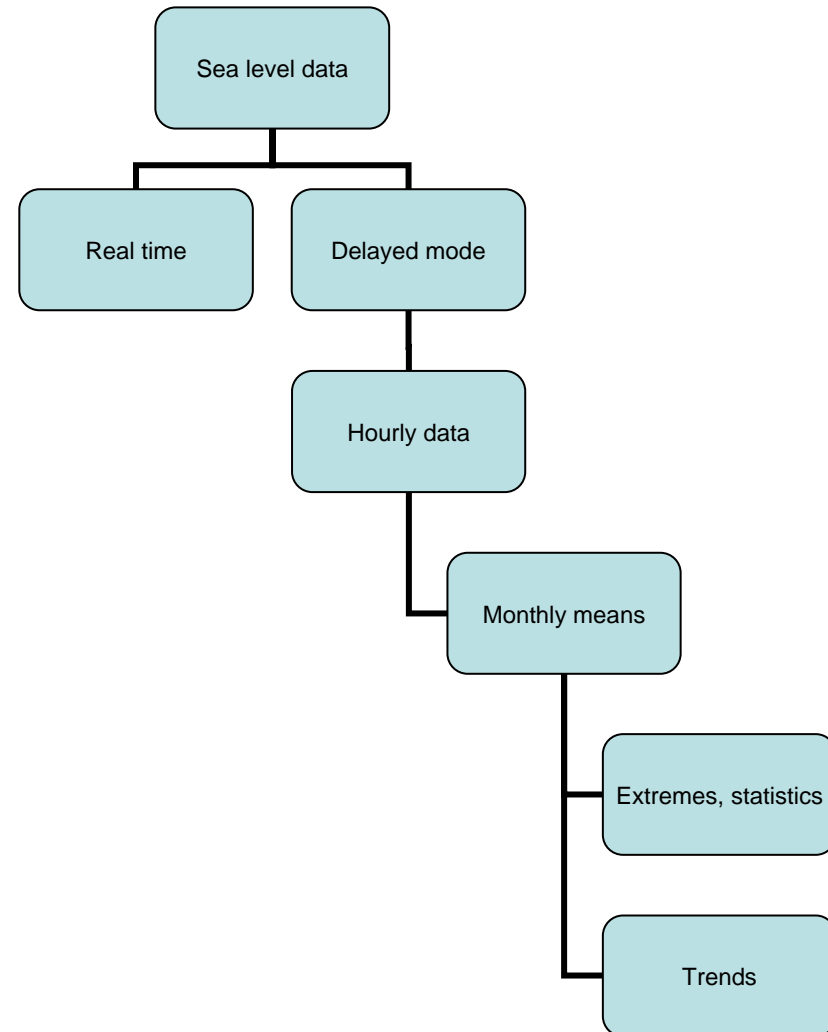
The user of sea level data in Europe needs

- Data overview – meta data
- A data portal for easy access
- Standards for the operation of tide gauges
- Standards for quality assurance
- Co-ordination of observations
- Upgrade of tide gauges
- Standards for products and information



ESEAS fulfils the needs for quality assured sea level products

- Near real time access to sea level data via a data portal
- Hourly data sea level data via a data portal
- Monthly means
- Extremes and long term statistics
- Rates of change and long term trends
- Topography maps
- Crustal vertical motions
- Absolute gravity



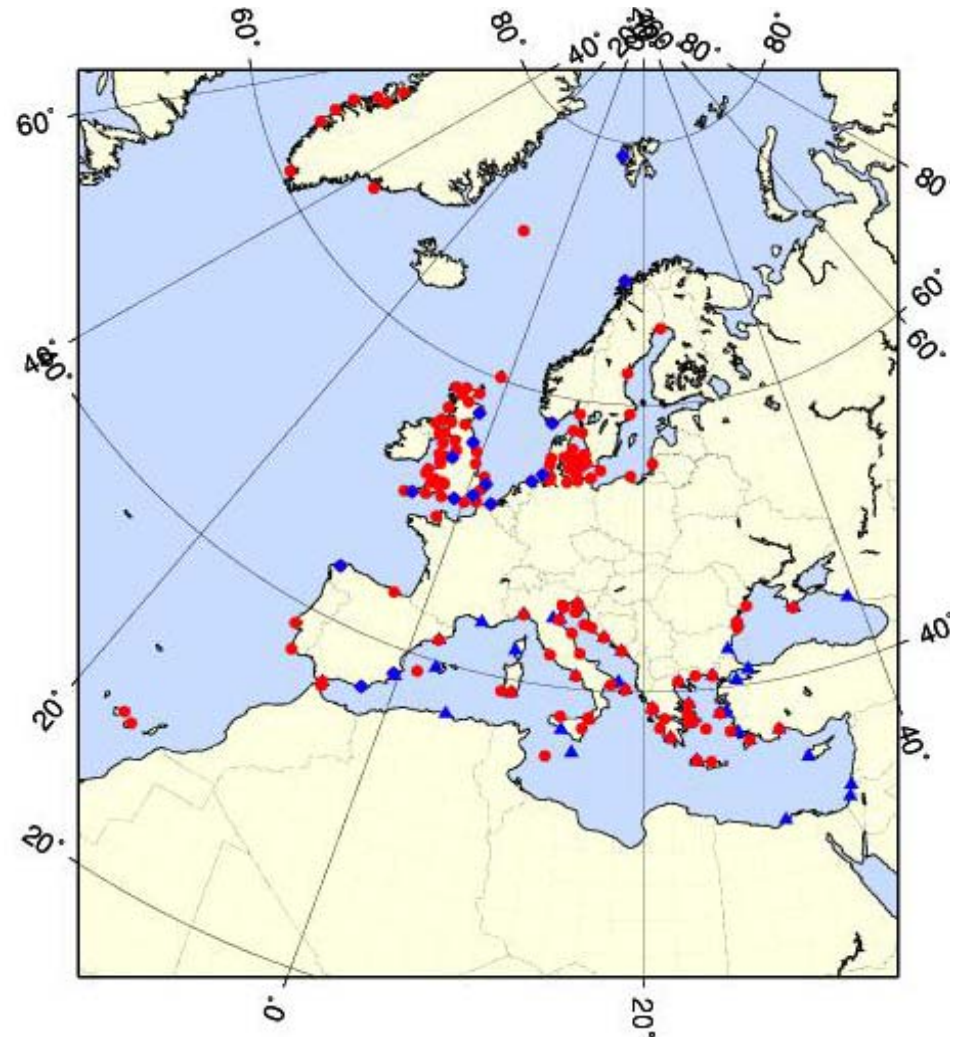
ESEAS is for scientists and non-scientific users

Network

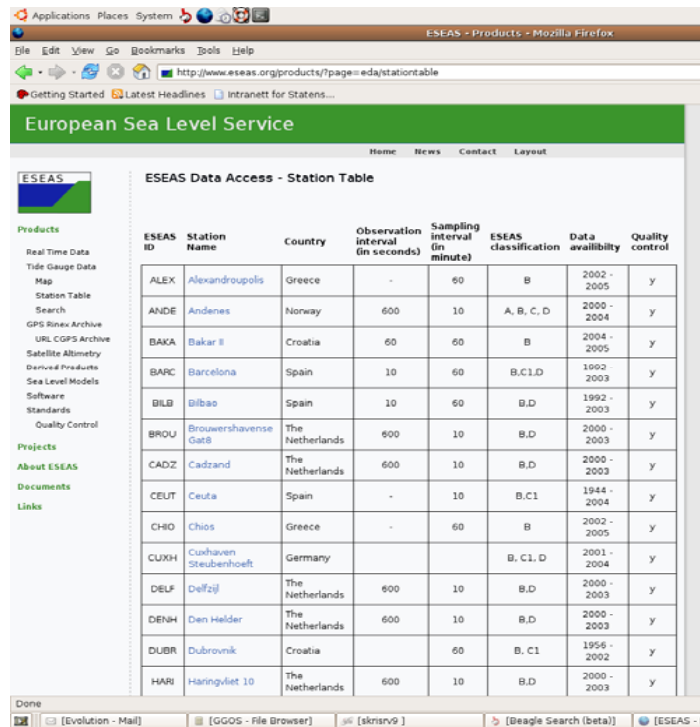
Red: Tide gauges

Blue: w/ GPS

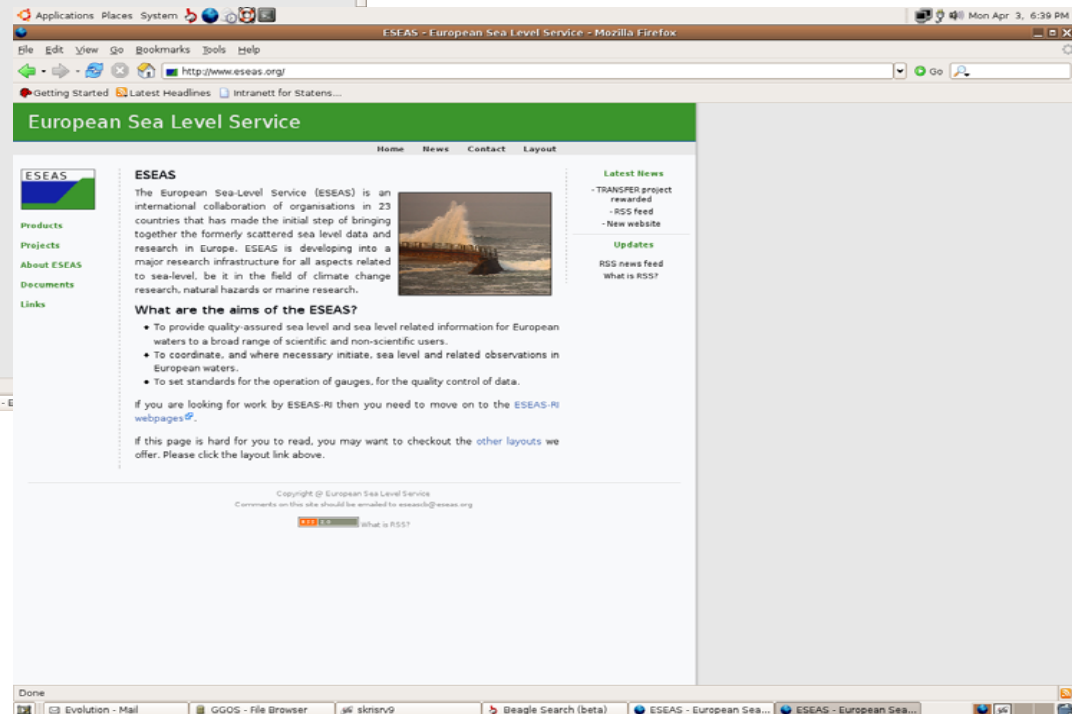
Blue triangles:
MedGLOSS



Data portal gives access to data: www.eseas.org/products



| ESEAS ID | Station Name | Country | Observation interval (in seconds) | Sampling interval (in minute) | ESEAS classification | Data availability | Quality control |
|----------|----------------------|-----------------|-----------------------------------|-------------------------------|----------------------|-------------------|-----------------|
| ALEX | Alexandroupolis | Greece | - | 60 | B | 2002 - 2005 | Y |
| ANDE | Andenes | Norway | 600 | 10 | A, B, C, D | 2000 - 2004 | Y |
| BAKA | Bakar II | Croatia | 60 | 60 | B | 2004 - 2005 | Y |
| BARC | Barcelona | Spain | 10 | 60 | B,C1,D | 1992 - 2003 | Y |
| BILB | Bilbao | Spain | 10 | 60 | B,D | 1992 - 2003 | Y |
| BROU | Brouershavense Gat8 | The Netherlands | 600 | 10 | B,D | 2000 - 2003 | Y |
| CADZ | Cadzand | The Netherlands | 600 | 10 | B,D | 2000 - 2003 | Y |
| CEUT | Ceuta | Spain | - | 10 | B,C1 | 1944 - 2004 | Y |
| CHO | Chios | Greece | - | 60 | B | 2002 - 2005 | Y |
| CUXH | Cuxhaven Steubenhoft | Germany | | | B, C1, D | 2001 - 2004 | Y |
| DELJ | Delfzijl | The Netherlands | 600 | 10 | B,D | 2000 - 2003 | Y |
| DENH | Den Helder | The Netherlands | 600 | 10 | B,D | 2000 - 2003 | Y |
| DUBR | Dubrovnik | Croatia | | 60 | B, C1 | 1956 - 2002 | Y |
| HARI | Haringvliet 10 | The Netherlands | 600 | 10 | B,D | 2000 - 2003 | Y |



ESEAS

The European Sea-Level Service (ESEAS) is an international collaboration of organisations in 23 countries that has made the initial step of bringing together the formerly scattered sea level data and research in Europe. ESEAS is developing into a major research infrastructure for all aspects related to sea-level, be it in the field of climate change research, natural hazards or marine research.

What are the aims of the ESEAS?

- To provide quality-assured sea level and sea level related information for European waters to a broad range of scientific and non-scientific users.
- To coordinate, and where necessary initiate, sea level and related observations in European waters.
- To set standards for the operation of gauges, for the quality control of data.

If you are looking for work by ESEAS-RI then you need to move on to the [ESEAS-RI webpages](#).

If this page is hard for you to read, you may want to checkout the [other layouts](#) we offer. Please click the layout link above.

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Comments on this site should be emailed to eseas@eseas.org

What is RSS?

ESEAS data portal

Access to sea levels in real time

Hourly sea levels (45 locations)

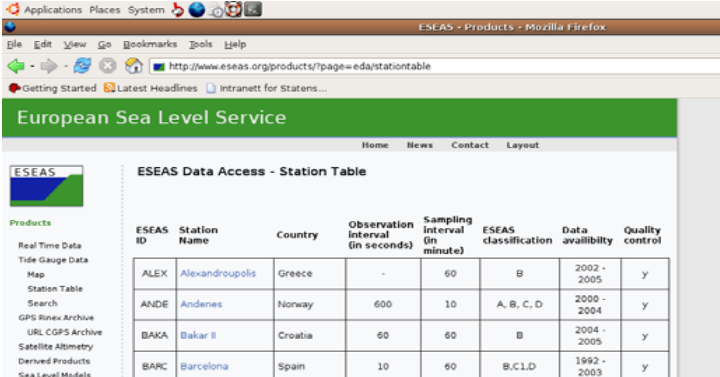
GPS archive

(Satellite altimetry data)

Derived trends and extremes

Software: WINTASK

Quality assurance standards

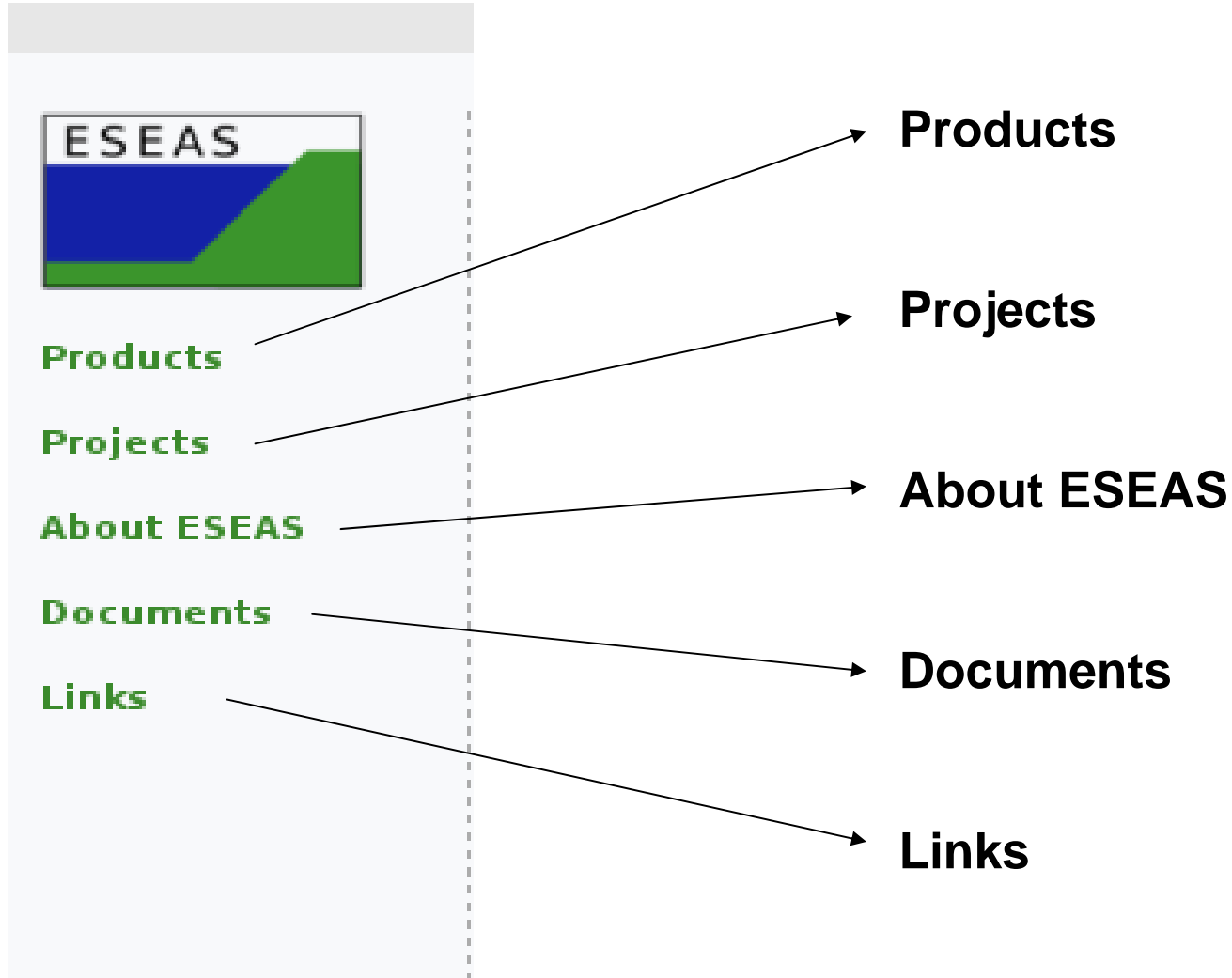


| ESEAS ID | Station Name | Country | Observation Interval (in seconds) | Sampling Interval (in minute) | ESEAS classification | Data availability | Quality control |
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| ALEX | Alexandroupolis | Greece | - | 60 | B | 2002 - 2005 | y |
| ANDE | Andenes | Norway | 600 | 10 | A, B, C, D | 2000 - 2004 | y |
| BAKA | Bakar II | Croatia | 60 | 60 | B | 2004 - 2005 | y |
| BARC | Barcelona | Spain | 10 | 60 | B,C,L,D | 1992 - 2003 | y |

ESEAS history: from a pilot project to a permanent service

| | |
|---------------|-----------------------------------|
| 2001-2005 | Pilot project |
| 2002-2005 | Research Infrastructure project |
| 2004 and 2005 | Work shops |
| 2005 | Involved in tsunamis warning |
| 2005 | Preparation for a permanent ESEAS |

ESEAS webpage www.eseas.org
for information



ESEAS (formed in 2001) and is supported by more than twenty countries

Belgium

Cyprus

Croatia

Denmark

Georgia

Germany

Greece

Italy

Lithuania

Malta

The Netherlands

Norway

Poland

Portugal

Romania

Slovenia

Spain

Sweden

Turkie

Ukraine

UK

EuroGOOS

GLOSS

MedGLOSS

EUREF



www.e-seas.org