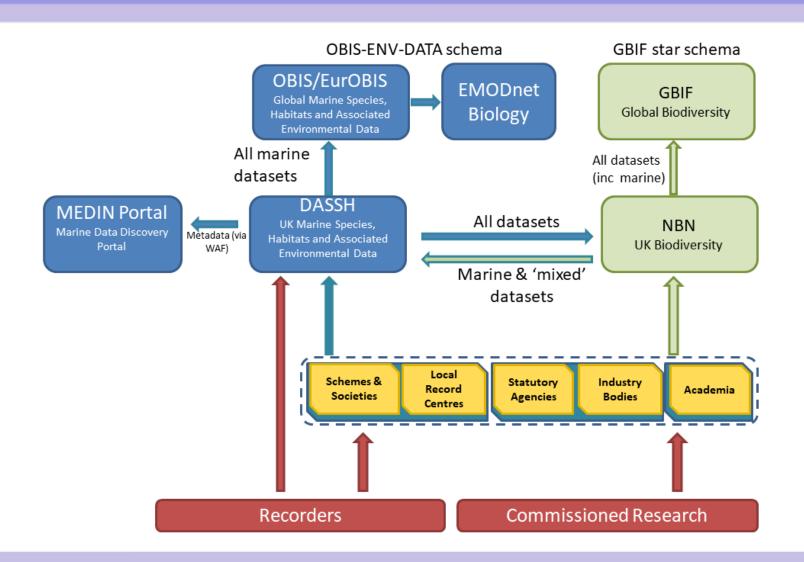
### DASSH

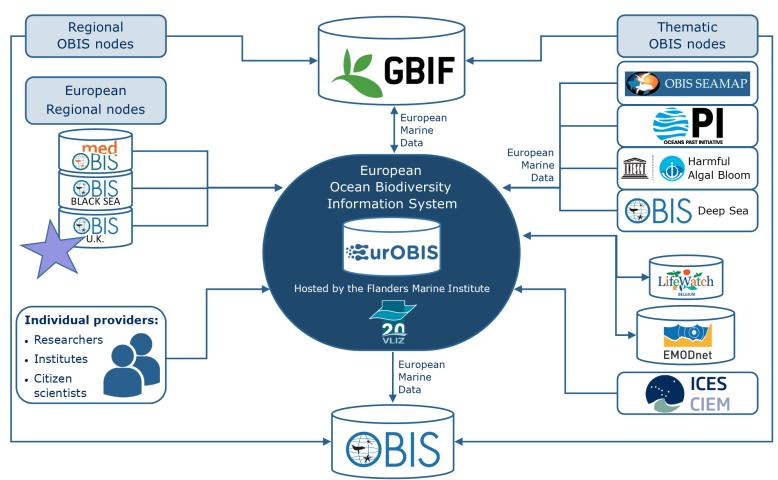


- The Archive for Marine Species and Habitats Data
- UK DAC- data archive centre
- DASSH initiative of the Marine Biological Association (MBA) and ran by MBA staff.
- In collaboration with, and is accredited by, the Marine Environmental Data and Information Network (MEDIN) and is a key data provider for the UK National Biodiversity Network
- Contributes to data portals including the NBN,
   Atlas, EMODnet, EurOBIS and GBIF in partnership with other UK and European data centres
- UK OBIS node









### Data Challenges...



#### **Marine and Coastal**

 Challenge 1: Bridging the gap between our experiences and the science

#### Time series datasets:

- present information through space and time
- Species distributions through time

#### CPR data

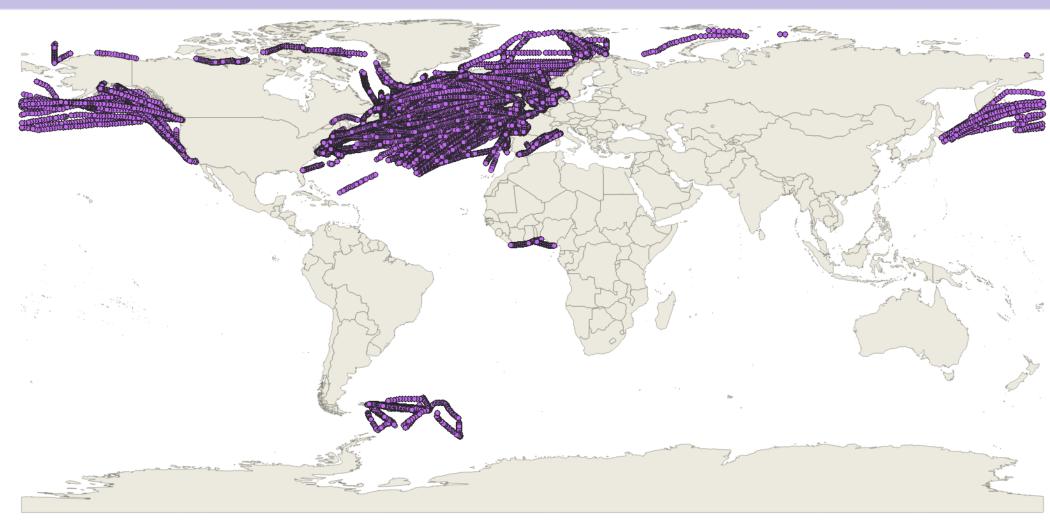


- Continuous Plankton Recorder Dataset (CPR Survey) -Phytoplankton
- Continuous Plankton Recorder Dataset (CPR Survey) Zooplankton
- Continuous Plankton Recorder Dataset (Pacific CPR Survey) -Zooplankton

The CPR Survey is unique in having comparable data on the geographical distribution, seasonal cycles and year-to-year changes in abundance of plankton over a large spatial area. There is no other survey in the world with 80 years of marine plankton data.

# CPR data coverage





#### **CPR** data



Filter:

These datasets can be downloaded through the DASSH IPT

https://www.dassh.ac.uk/ipt/

Darwin Core Archive format:

https://www.gbif.org/darwincore



#### Hosted resources available through this IPT

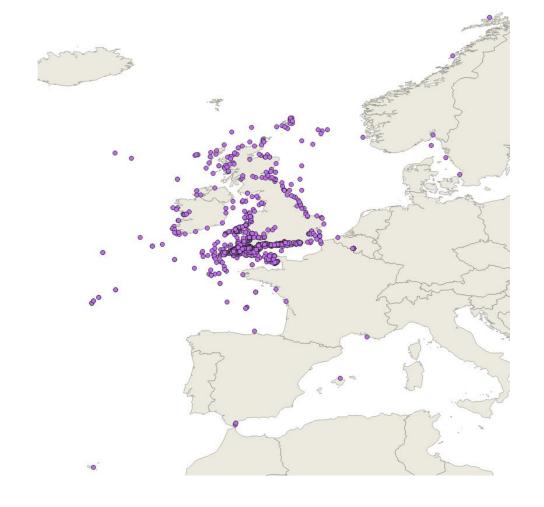
Logo	Name	Organisation	Туре	Subtype	Records	Last modified	Last publication	Next publication
-	1743-2010 National Marine Aquarium (NMA) United Kingdom Marine Fish Recording Scheme	Not registered	Sampling event		2,072	2019-10- 16	2019-10-16	-
-	1776-1997 Paul F. Clark North East Atlantic Crab Atlas	Not registered	Sampling event	-	10,989	2019-04- 23	2019-04-23	-
-	1778-1998 Ivor Rees North Wales Marine Fauna Ad-hoc sightings shore and ship-based surveys	The Marine Biological Association of the United Kingdom	Sampling event		6,631	2019-12- 05	2019-12-05	-
=	1848-1982 Lundy Field Society The Marine Fauna of Lundy	Not registered	Sampling event	77.0	2,591	2019-12- 20	2019-12-20	=
-	1915-2016 Department for Environment Food & Rural Affairs (Defra), Marine Strategy Framework Directive (MSFD) Collation of invasive non-indigenous species	The Marine Biological Association of the United Kingdom	Sampling event	2	9,147	2019-08- 02	2019-08-02	-
-	1938-1941 Cole, HA Essex Estuary Urosalpinx cinerea records	Not registered	Sampling event	-	239	2019-07- 08	2019-07-08	-
	1949-1998 Great Britain Non-Native Species Information Portal	Not registered	Sampling event	-	9	2020-03- 23	2020-03-23	-

# Long term datasets



1743-2010 National Marine Aquarium (NMA)
United Kingdom Marine Fish Recording
Scheme

Records of rare fish sightings and catches submitted to the National Marine Aquarium, Plymouth.



# Long term datasets



#### Non native species datasets

1915-2016 Department for Environment Food & Rural Affairs (Defra), Marine Strategy Framework Directive (MSFD) Collation of invasive non-indigenous species

1949-1998 Great Britain Non-Native Species Information Portal (GBNNSIP) United Kingdom Collated record of historic distributions of marine non-native species from literature

### Data Challenges...



#### **Marine and Coastal**

- Challenge 2: Protecting our coastal communities
- Habitat data map layers and information

### VALMER project data layers



http://valmer.marinebiodiversity.org/case-studies-overview/

VALMER Project examined case studies where techniques and methods for ecosystem services were tested. Please note these projects were carried out almost a decade ago.

More information about the layers can be found on the VALMER project website

North Devon

http://valmer.marinebiodiversity.org/case-studies-overview/north-devon/

Plymouth Sound

http://valmer.marinebiodiversity.org/case-studies-overview/plymouth/

### VALMER project data layers



Available through the DASSH Geoserver

https://www.dassh.ac.uk/geoserver/web/







- Carbon storage habitat
- Areas of eutrophication
- Shipping intensity
- Juvenile salmon in tributaries, wild food and fish supply
- Areas where different types of fishing gear is used
- Flood risk management map layers- Areas contributing to wave reduction and flood water storage
- Priority habitats, beaches, rocky cliffs, woodland and rivers
- Areas of recreational and heritage value like wrecks, castles, trails, golf courses

# 2013 Water Framework Directive transitional waters status layer in Scotland





### Data Challenges...



#### **Nature based solutions**

- Enhance biodiversity/ Ecosystem restoration
- Sustainable food production
- Net zero emissions
- Resilience to climate impacts and other shocks

When addressing the Nature based solution challenges, try and also consider the marine environment and solutions it has to offer.



#### **Nature based solutions**

- Blue carbon
- Net carbon sinks in the marine environment
- Seagrass and saltmarsh areas

These habitats can also offer natural coastal protection



#### **Enhance biodiversity/ Ecosystem restoration**

2012-ongoing UK Offshore Marine Conservation Zone (MCZ) Survey Data

#### Sustainable food production

Fisheries, habitats, plankton