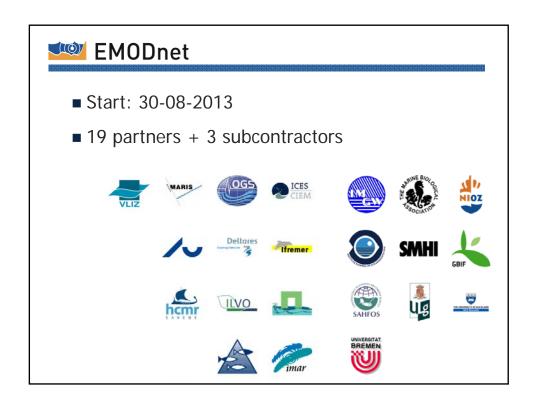
European Marine Observation and Data Network

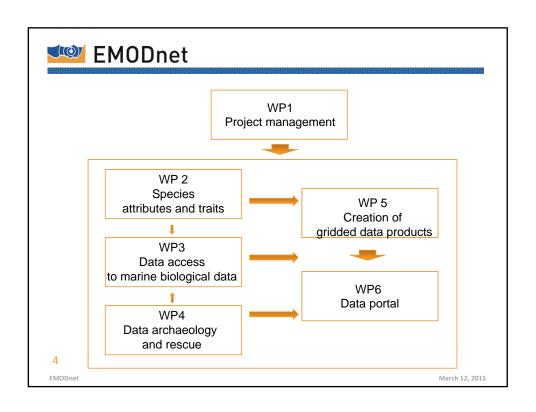
Biology

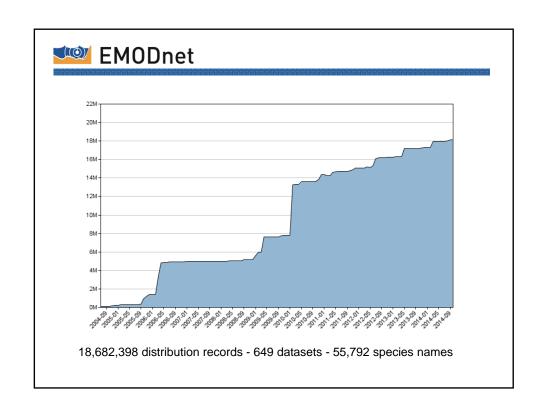


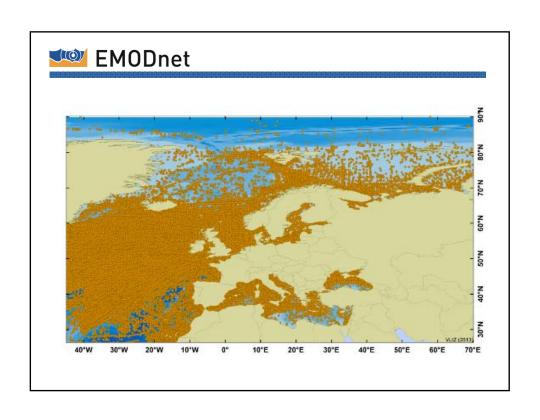
Simon Claus













WP3 Data access to marine biological data

• All WP3 partners have indicated their data transfer protocol of choice, e.g. the mechanism through which the data will become accessible through the EMODnet Biology Portal:

Data transfer protocol	# partners
IPT	5
SeaDataNet format	3
OGC (WFS)	2
Own web services	2
Combination of protocols	3



■ The inventory has lead to the description of 75 new datasets in the metadata catalogue, all of which will become accessible through the Portal. In total, 101 new (sub)data sets will contribute to the Portal.

Group	# datasets	# records
Benthos	12	1.541.685
Phytoplankton	28	1.474.340
Zooplankton	14	1.721.621
Angiosperms	2	1.845
Macro-algae	3	317.209
Birds	3	123.933
Mammals	2	24.593
Reptiles	2	3.242
Fish	15	2.158.305
No indication		1.400.000



WP 5: Creation of gridded abundance data products







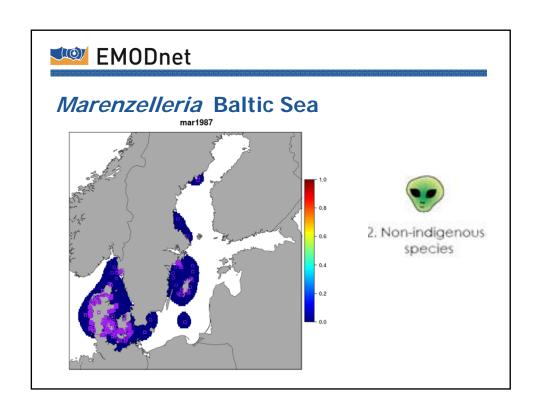


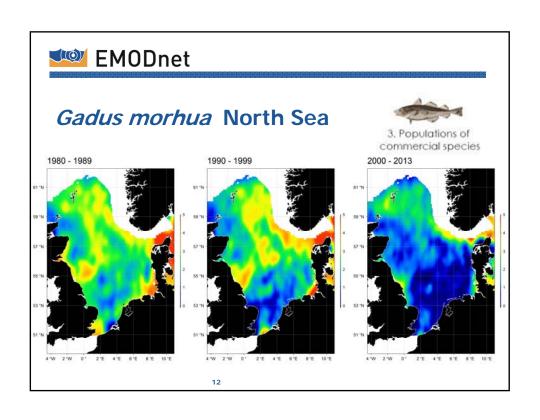


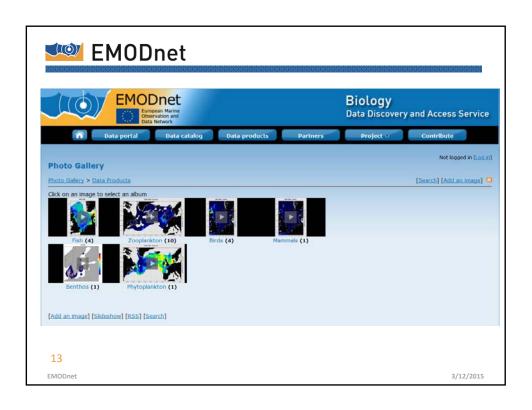
EMODnet

Objectives

- Implement DIVA methodology to produce statistically optimized gridded map layers.
- Make gridded maps of 3 species per group in appropriate time window
- Estimate the accuracy of the gridding procedure by comparison with validation data.
- Produce spatial maps (data products) relevant for MSFD Descriptor 2 (non-indigenous species).
- Produce spatial maps of quality indicators for MSFD, if available and feasible



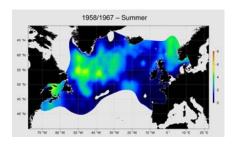






OOPS: operational oceanographic products and services

- Proposal to provide EMODnet biology zooplankton products for regional overviews ICES accepted
- SLA being set up between ICES, VLIZ, SAHFOS (EMODnet product becomes operational)





Biological and ecological traits of marine species Costello et al., subm

Trait	Relevance of propsoed high priority traits
Taxonomic	Related species have similar traits so taxonomic relationships predict traits of related species
Environment	Most studies are confined to a particular environment so this trait allows users to quickly isolate species of interest for their purpose.
Depth	The most widely available variable to distinguish species habitat.
Substratum	A key physical factor determining benthic species habitat.
Habitat	Derived from environment, depth, and substratum.
'Habit'	Determines mode of dispersal and ecological role (e.g. habitat forming) in the ecosystem.
Skeleton	Calcareous important for ocean acidification and fossil record.
	Gelatinous important due to sampling difficulties, role as predators, and hazard to humans.
Diet	Influence on abundance of other species, determines position in food web.
Body size	Related to position in food web, species abundance, metabolic rates, and dispersal.



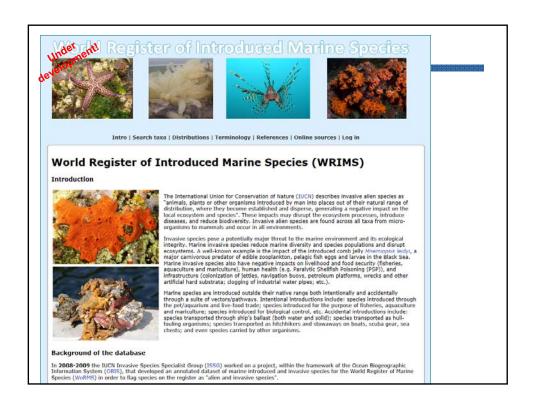
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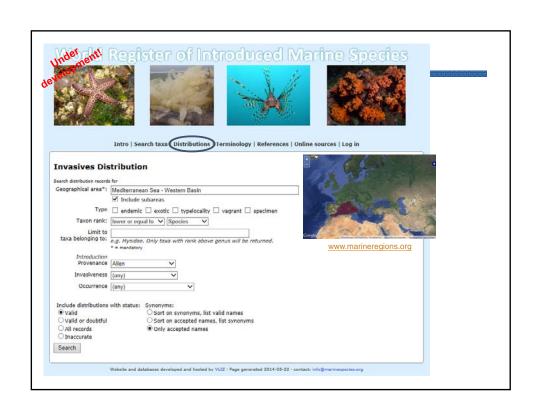
Biological and ecological traits of marine species

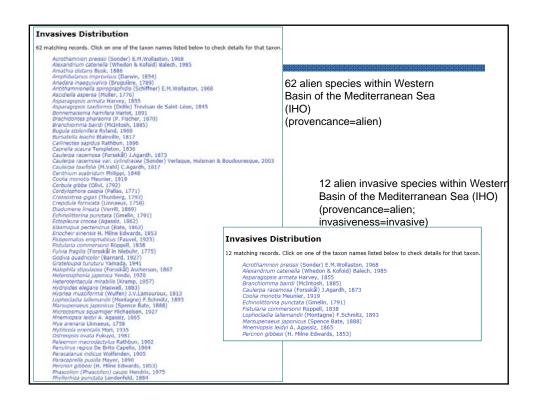
Costello et al., subm

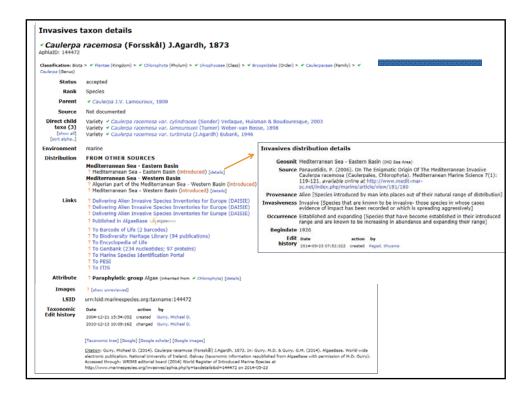
■ Species' importance to society

Taxon Kingdom	ERMS	WoRMS	Alien	origin	origin	EU	OSPAR	HAB	FAO
or Phylum.				unknow n	uncertai n	Directive			
Agnatha	6	93	0	0	0	4	0	0	17
Annelida	2,170	12,658	159	21	22	1	0	0	19
Aves	234	645	2	0	0	143	9	0	133
Bacteria	181	1,716	3	0	0	0	0	1	1
Bryozoa	800	6,112	58	4	4	0	0	0	0
Chaetognatha	41	131	1	0	0	0	0	0	0
Chelicerata	517	2,939	4	0	1	0	0	0	12
Chromista	3,929	20,285	186	29	2	0	0	115	42
Cnidaria	1,294	10,760	79	6	6	1	0	0	86
Crustacea	7,062	53,321	294	16	6	2	1	0	643
Ctenophora	39	187	4	0	0	0	0	0	1
Echinodermata	652	7,277	17	1	1	1	0	0	151
Echiura	37	197	1	0	1	0	0	0	0
Entoprocta	60	174	4	1	0	0	0	0	0











Data formats: discussed at biodiversity workshop EEA – in contact with

Deltares

- Marine Information System (MIS)" which will encompass both compliance and state-of-the-environment reporting information across the range of MSFD-relevant topics"
- MIS LEVEL 3: Monitoring and data management OBJECTIVE: To define a common model for managing monitoring programs and data flows
- Draft Structure based on Emodnet Biology, SEADATANET standards (ODV and CDI) and other initiatives
- In progress