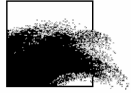


Biobank

An integrated system to collect and publish marine mammal information

Management Unit of the North Sea Mathematical Models –
Belgian Marine Data Centre & Marine Ecosystems Management
De Winter J., De Cauwer K., Haelters J., Jacques T., Scory S.

University of Liège – Department of Morphology and Pathology
Jauniaux T.

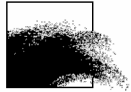


Aims of Biobank

- Centralize information on marine mammals
- Facilitate exchange in scientific tissue material
- Public interface

Increase the understanding of population trends and evaluating threats based on life history and health parameters

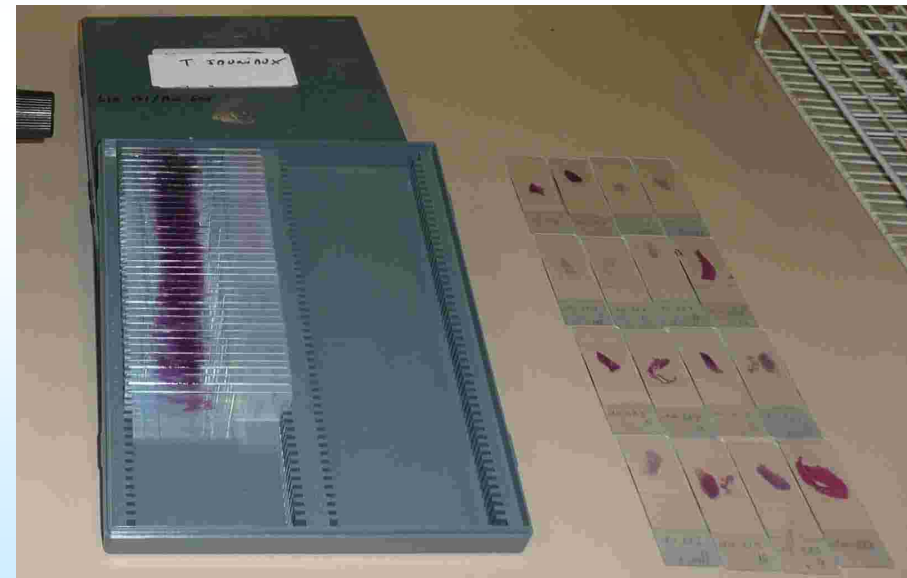
-> Conservation measures

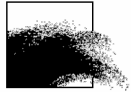


The Belgian marine mammal tissue collection

Tissue collection of >25.000

- Since 1990
- Belgium, Netherlands and North of France
- Available for pathology, toxicology, microbiology, life history
- Stored at:
 - the Royal Institute of Natural History
 - the Department of Morphology and Pathology, University of Liege

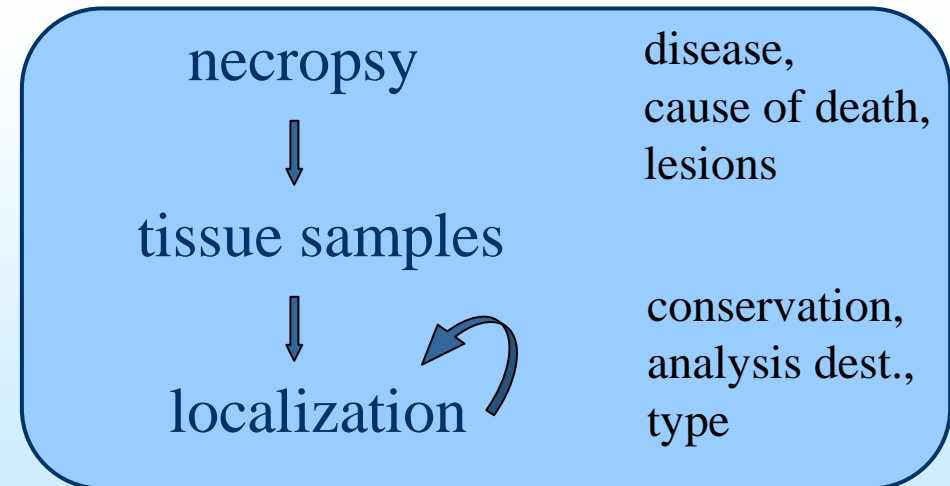
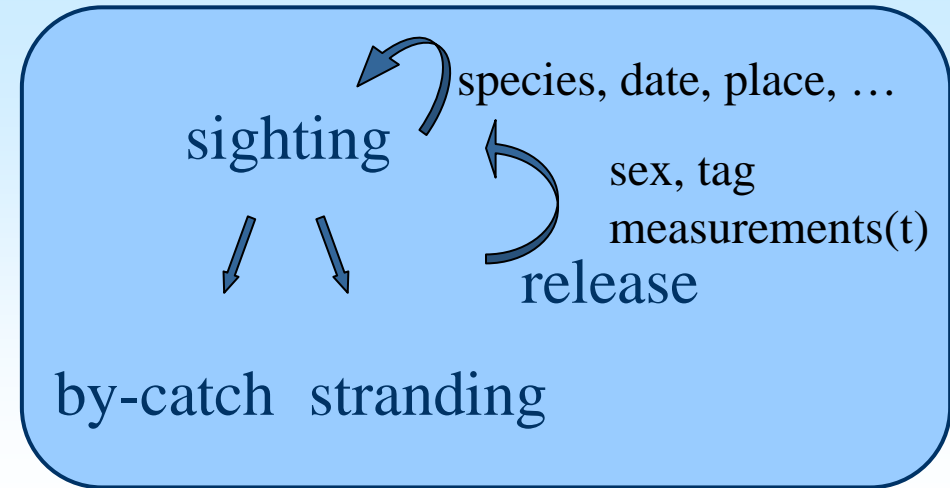
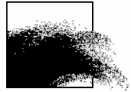


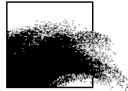


Available species

- pinnipeds: harbour seal, grey seal, hooded seal
- small cetaceans: harbour porpoise, white beaked dolphin, white sided dolphin, bottlenose dolphin, striped dolphin
- large cetaceans: sperm whale, humpback whale, minke whale, fin whale

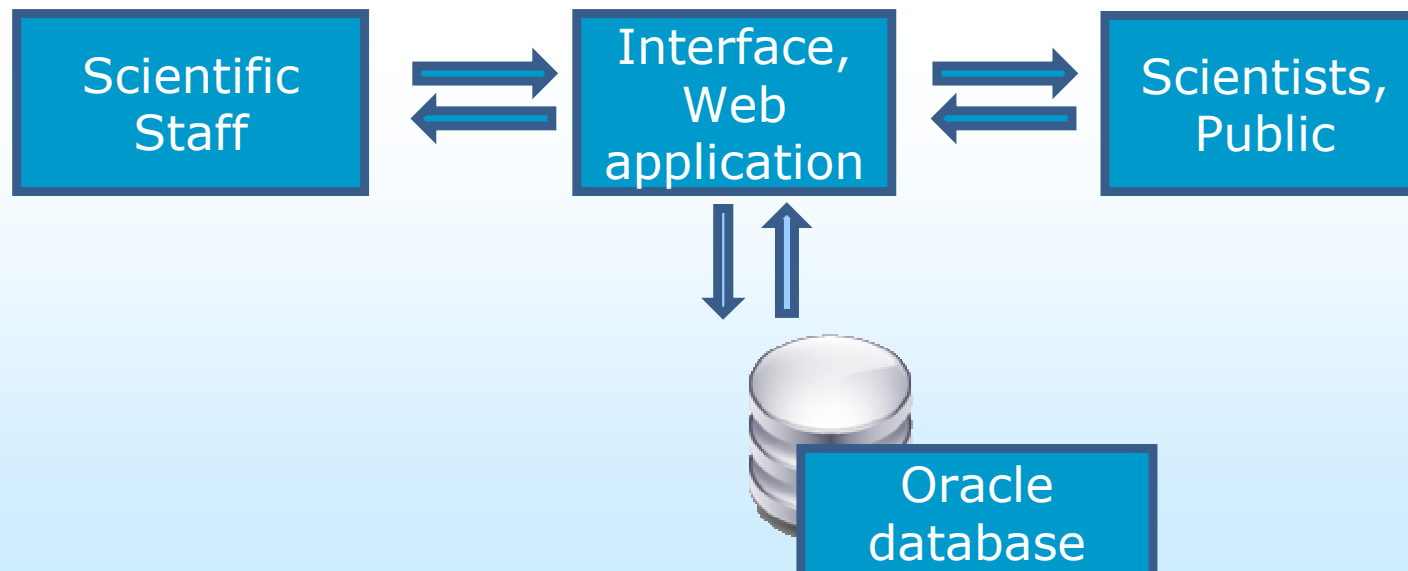






System architecture

- User management
- Tissue order management
- Sample storage management
- Import observations & necropsies
- Search engine for observations & samples
- Requests for tissues after registration
- -> menus, actions, data depending on users access rights





Marine Mammal

OBSERVATION, STRANDING & SAMPLE LIBRARY

Welcome admin
[Sign Out](#)

HOME

OBSERVATIONS

AUTOPSIES

BIOBANK

USER

IMPORT

ADMIN

MANAGE ORDERS

MANAGE USERS

MANAGE INSTITUTES

CONTAINERS

MANAGE SAMPLES

Availability:

Conservation Mode: Ethanol fixed

Analyze Dest: Alimentary

Sample Type: nematode

*Container Localization:

Submit

Collapse All



Segno	Availability	Conservation Mode	Analyze Dest	Sample Type	Container Localization	Organs
8743		Ethanol fixed	Genetic	Organ		Skin
11496		Ethanol fixed	Genetic	Organ		Skin
11990		Ethanol fixed	Genetic	Organ		Skin
11938		Ethanol fixed	Genetic	Organ		Skin
11936		Ethanol fixed	Genetic	Organ		Skin

Show Filter

| page 1 | 3813 pages | 19062 records | 5 rows per page |

PREV 1 NEXT



- HOME
- OBSERVATIONS
- AUTOPSIES
- BIOBANK
- USER
- IMPORT
- ADMIN

▼ Observations

IMPORTATION TOOL

MANAGE TAXAS

MANAGE STATIONS

▶ Autopsy

Specimens

*Specie

*Specie flag

Sex

Number

A

Length(m)

Weigth(kg)

Blubber thick.(mm)

Rbins Tag Mumm Tag Mumm Tag Serie

Cause of Death

↑ 1 Phocoena phocoena UNK Length: 1.6 m Cause of Death : N ↓

Previously Observed

ID	Number	Sex	Rbins tag	Specie flag	Specie	Mumm Tag	Mumm Tag Serie
1324	1			good value	Cetacean sp.		
3603	8	UNK		good value	Cetacean sp.		
1513	1			good value	Cetacean sp.		
1574	1			good value	Cetacean sp.		
1685	12			good value	Cetacean sp.		



Marine Mammal

OBSERVATION, STRANDING & SAMPLE LIBRARY

Username

Password

- HOME
- OBSERVATIONS
- AUTOPSIES
- BIOBANK**
- REGISTER

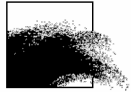
DESCRIPTION

Conservation Mode	Analyze Dest	Taxa	Organs
Microslides	Histopathology	Physeter macrocephalus(Linnaeus 1758)	Colon
Parafine	Histopathology	Physeter macrocephalus(Linnaeus 1758)	Colon
Microslides	Histopathology	Physeter macrocephalus(Linnaeus 1758)	Diaphragm
Parafine	Histopathology	Physeter macrocephalus(Linnaeus 1758)	Diaphragm
Microslides	Histopathology	Physeter macrocephalus(Linnaeus 1758)	Ileum
Parafine	Histopathology	Physeter macrocephalus(Linnaeus 1758)	Ileum
Microslides	Histopathology	Physeter macrocephalus(Linnaeus 1758)	Intestin
Parafine	Histopathology	Physeter macrocephalus(Linnaeus 1758)	Intestin
Microslides	Histopathology	Physeter macrocephalus(Linnaeus 1758)	Kidney
Microslides	Histopathology	Physeter macrocephalus(Linnaeus 1758)	Kidney

| page 0 | 50 pages | 498 records | rows per page |

Filter	Token	Field	Filter	Token	Field
<input type="text" value="specie"/>	<input type="text" value="like"/>	<input type="text" value="Physeter"/>	<input type="text" value="organ"/>	<input type="text" value="like"/>	<input type="text"/>

- Conservation Mode
- organ**
- specie
- Sample Type
- Analyze Dest.



- Tissues available for research
- Online search & orders
- Information on specimen (observations) and necropsy
- Easily expandable to similar collections



soon on: www.marinemammals.be