

SMASS Database

A very brief update and very quick overview



University
of Glasgow

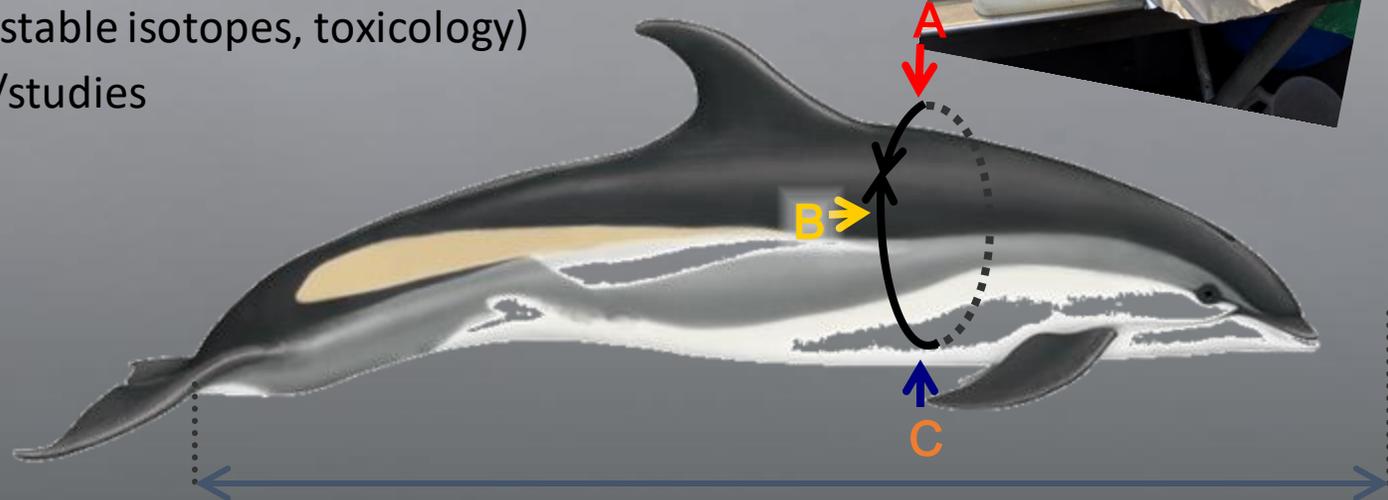
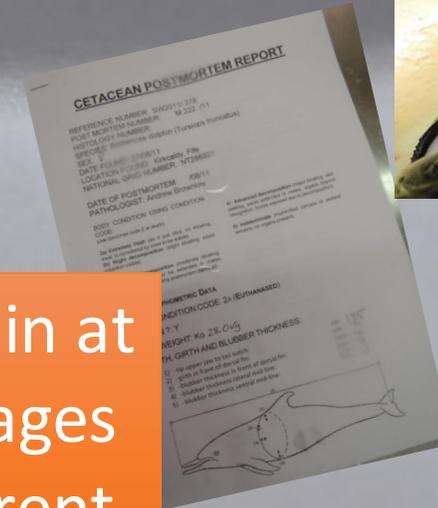
SMASS Database – the story so far

- Background;
 - ASCOBANS DB workshop ECS 2023
 - Separation of UK schemes required for independent SMASS database development
 - SMASS > Baseline + Necropsy Data
 - Ancillary test overview || Collaborations and data || Pathology data framework
 - Glasgow University Software Services (GUSS)
- Development & user journey
 - For us
 - For others

Data collection & storage

- What, where when
 - Sex || Age group || Level of Decomposition || PHOTOGRAPHS
- Generates additional data + samples
 - Nutritional condition & blubber thickness
 - Morphometric data (weight, length, girth)
 - Gross pathology on all organ systems
- Samples
 - Cause of death (histo & bact)
 - Life history (age&maturity, stomach contents)
 - Specific research projects & collaborations (stable isotopes, toxicology)
 - Routine suite of tissues for later processing/studies

Data comes in at different stages and in different "formats"



SMASS Database



- PostgreSQL
 - Object – relational database
 - Opensource
- Collection of tables
 - Unique identifier (Primary KEY) links data
 - Easy import/export and VALIDATION
 - Bulk and individual records
 - Add tables/expand database
 - Add “flags” for sensitive data

SMASS Database; a fly through

- Purposes for SMASS
 - Strandings coordination
 - Data management
 - Case updates
 - Collaborations
- User journeys → Important for later this morning
 - Strandings coordination
 - Data management
 - Entry
 - Upload

Strandings coordination; a fly through

SMASS
Scottish Marine Animal Stranding Scheme

Home + Add New Entry Bulk options Images MtD

M271/24
Date found: 2024-04-03
Species (common): Harbour porpoise
Species (scientific): *Phocoena phocoena*
Age group: unknown
Condition found: moderate decomposition (code 3)
Euthanased?: No
Findings: Not examined

Images

View

- Bottlenose dolphin
- Cetacean (indeterminate species)
- Grey seal
- Harbour porpoise
- Harbour seal
- Kogia sp.
- Marine turtle
- Mysticete
- Pelagic delphinid
- Pinniped (Other)
- Pinniped (indeterminate species)
- Shark
- Sperm/beaked whale
- Reset All

QuickQuery

Updating data; a fly through



Home

+ Add New Entry

Bulk options

Images

MtD

View/Edit Stranding: M207/19

You may save changes independent whether a field is locked or unlocked. Locking and unlocking is there to prevent accidental editing.

Basic Data

Sampling Data

Location Data

Additional Data

Reporter Details

Additional Details

bacteriology

grosspm

histology

lifehistory

Gonads Sample Status

3

Gonads Processing Lab

0

1

2

3

Gonad Type

Ovaris

Maturity Certain

True

Length (mm)

Width (mm)

Weight L (gr)

Gonads Notes

Height (mm)

Weight R (gr)

Teeth Sample Status

Updating data in bulk; a fly through

 Bulk Upload

Please populate the table for Lifehistory!

	mreference	samplestatusgonads	labprocessedgonads	fundingsourcegonads	gonadtype	maturityresult	maturitycertain	length	width	height	weightl	weightr	notesgonad
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Validate

Commit to Database

Make Changes

Case selection; a fly through

Filter

Show 10 entries

M-Reference (Mas.)	Class (Mas.)	Species Common (Mas.)	Date Found (Mas.)	Location (Mas.)	Local Authority (Mas.)	Grid Reference (Mas.)	Condition Found (Mas.)	Examination Level (Mas.)	Is approved? (Mas.)	Actions
conta /24	cc	cont: harbour	before dd/mm/yyyy	cont	conta	conta NM	contain:	contains	any	Filter

M301/24	Cetacean	Harbour porpoise	12/04/2024	Near Cuan Ferry, Isle of Seil	Argyll and Bute	NM 75048 15636	moderate-advanced decomposition (code 3-4)	not necropsied	true	
M271/24	Cetacean	Harbour porpoise	03/04/2024	Loch Ailort, between Lochailort and Roshvean.	Highland	NM 73905 79139	moderate decomposition (code 3)	not necropsied	true	
M267/24	Cetacean	Harbour porpoise	02/04/2024	Gott bay, Tiree	Argyll and Bute	NM 04086 46186	moderate decomposition (code 3)	sampled	true	
M233/24	Cetacean	Harbour porpoise	16/03/2024	Blackmill Bay, Luing	Argyll and Bute	NM 73245 08182	moderate decomposition (code 3)	not necropsied	true	
M125/24	Cetacean	Harbour porpoise	12/02/2024	Gott bay, Tiree	Argyll and Bute	NM 04845 47275	slight decomposition (code 2b)	sampled	true	

Showing 1 to 5 of 5 entries

Previous 1 Next

Download as CSV

Public facing; a fly through



Legend:

- Bottlenose dolphin
- Cetacean (Indeterminate species)
- Grey seal
- Harbour porpoise
- Harbour seal
- Porpoise sp.
- Marine turtle
- Myotis
- Harbour porpoise
- Porpoise (Other)
- Porpoise (Indeterminate species)
- Shark
- Spinnhead whale
- None All

QuickQuery

Filter

Show 10 entries

M-Reference	Species Common	Date Found	Local Authority	Condition Found	Summary findings	Actions
M335/24	Cetacean (indeterminate species)	24/04/2024	Dumfries and Galloway	indeterminate (code 5)	Not examined	
M334/24	Atlantic white-sided dolphin	24/04/2024	Argyll and Bute	moderate decomposition (code 3)	Not examined: Samples taken	
M333/24	Short-beaked common dolphin	24/04/2024	Moray	slight decomposition (code 2b)	Pending	
M331/24	Short-beaked common dolphin	23/04/2024	Argyll and Bute	slight decomposition (code 2b)	Not examined: Samples taken	
M332/24	Harbour porpoise	23/04/2024	Moray	slight decomposition (code 2b)	Not examined	
M327/24	Grey seal	22/04/2024	East Lothian	advanced decomposition (code 4)	Not examined	
M328/24	Harbour porpoise	22/04/2024	Orkney	advanced decomposition (code 4)	Not examined: Samples taken	
M329/24	Grey seal	21/04/2024	Moray	moderate decomposition (code 3)	Not examined	
M326/24	Harbour porpoise	21/04/2024	Highland	moderate decomposition (code 3)	Not examined: Samples taken	
M322/24	Humpback whale	20/04/2024	Highland	moderate-advanced decomposition (code 3-4)	Physical trauma: Anthropogenic	

Showing 1 to 10 of 15,541 entries

Previous 1 2 3 4 5 ... 1,555 Next

SMASS Database

- Flexible platform with robust methods for data upload, download, and validation
- Management features
 - Layers of access and editing rights
 - Public facing = limited fields for viewing only
 - Students/volunteers more limited editing capacity
- What/who is it for → user journeys

Thank you.

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