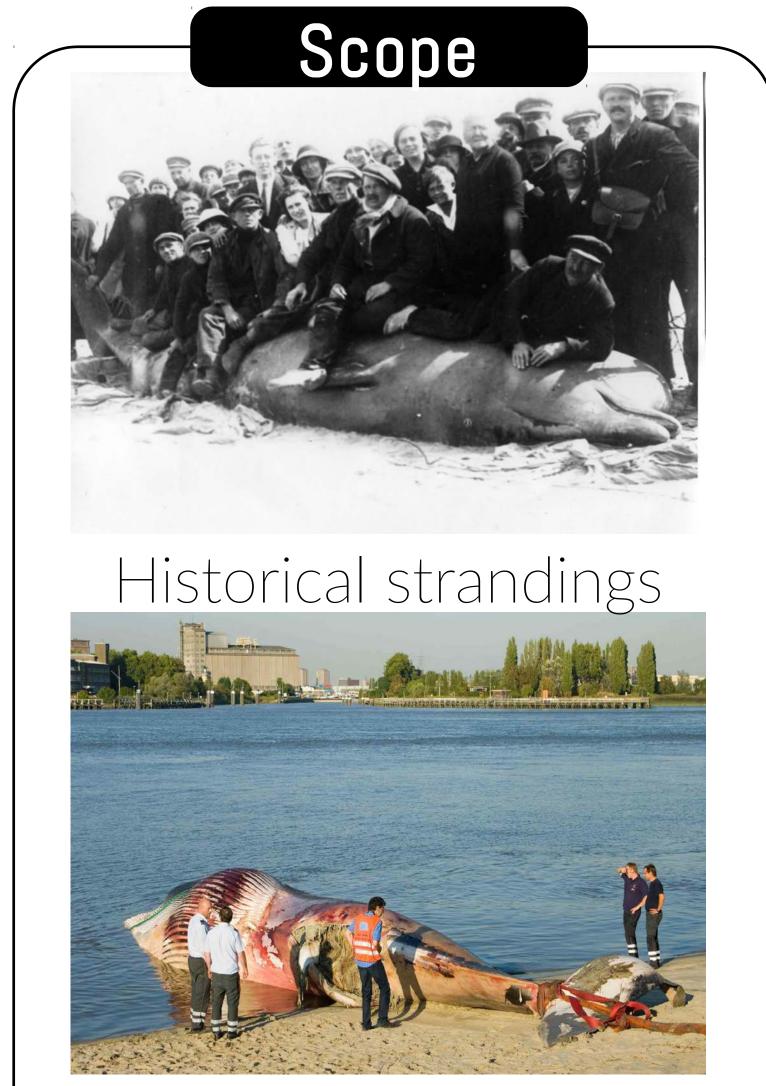
Belgian marine mammals data portal

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Exposing Belgian stranding data

The marine mammals website is the result of a long-standing collaboration between the Royal Belgian Institute for Natural Sciences (RBINS) and the University of Liège (ULg) and provides access to data from 50 years of marine mammal observations in Belgium. The site consists of two main parts, namely observations and the tissue bank (Biobank). While observations can be publicly consulted, the biobank is focused on scientific users, who can obtain a login



account to lend samples. The public part of the site is intended for the general public and policy-makers. The site contains the source data for the yearly report the Institute has to produce.

Overall, the website aids in collecting data on strandings, necropsies, ad hoc observations and dedicated surveys of any marine mammal (cetacean or pinniped) occuring in Belgian waters. Strandings from Northern France are also recorded as they are necropsied in Liège.

The site allows ad hoc stranding and observational data to be entered in a standardised way, which is done by RBINS staff. The system allows to track multiple stranding events of individual animals. In order to support and refine the cause of death as assessed on the beach, necropsies and resulting samples are recorded as well. The system keeps track of all the marine mammal tissue samples stored in the vaults of the Department of Morphology and Pathology of the ULg, which contain over 20000 samples.

Real-time strandings





Stranding vocabulary

Together with specialists, a classification of interventions was designed. The database is centered around the concept 'event', to which either an 'observation' or a 'necropsy event' can be bound. An observation is a physical observation in a non-clinical setting. **Observations** can have the following **types**:

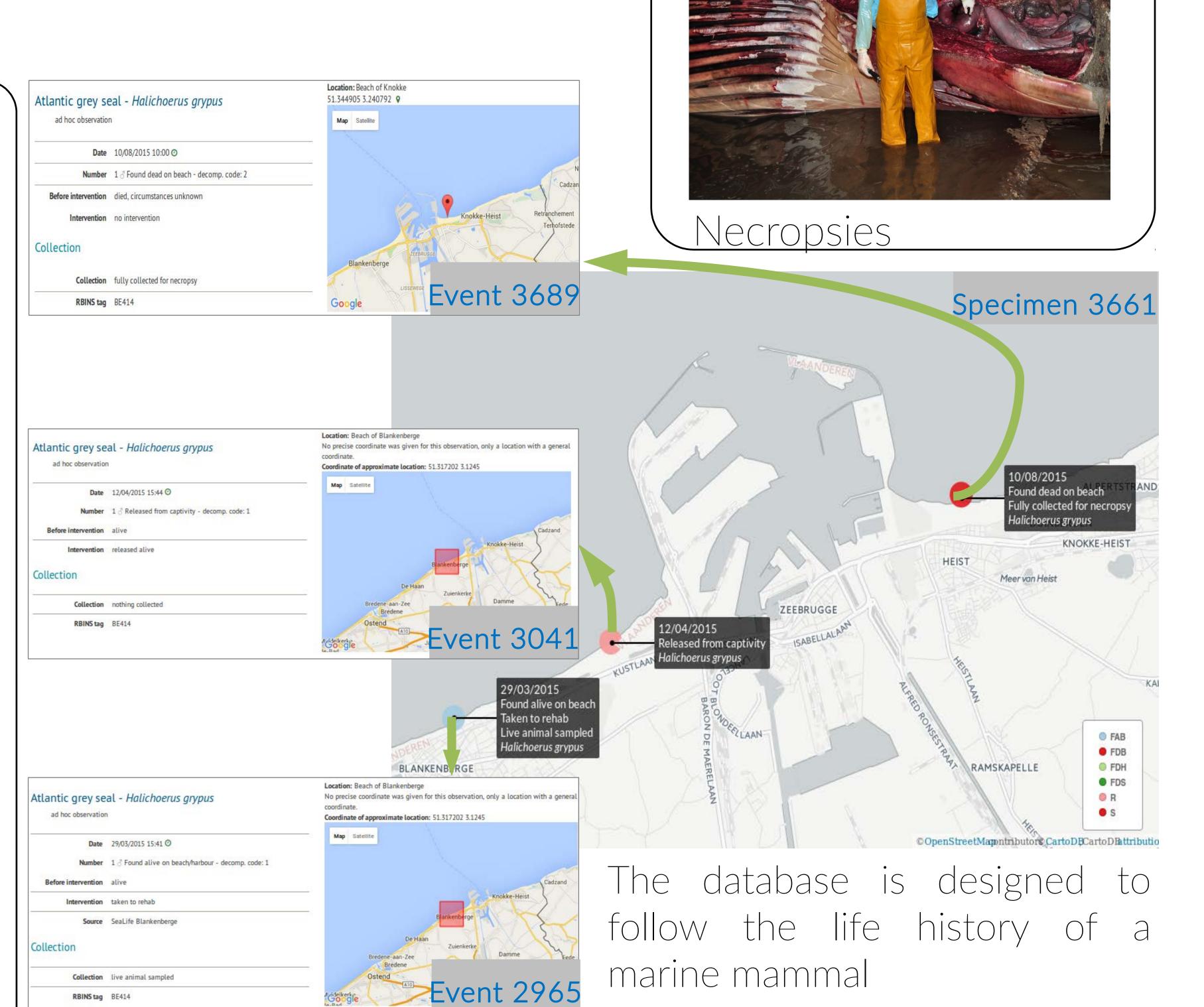
Found dead inland; Found alive inland; Bycatch; Caught at sea; Caught inland; Died during transport/rehab; Found dead at sea; Released from captivity/rehab; Sighted; Found dead on beach; Found dead in harbour; Found alive on beach/harbour.

In order to adequately document the **circumstances of the** observation, 'parameters' (key-value pairs) can be added. Some keys can only have a preset value. The following keys and possible values are available to document the circumstances of the observation:

Before intervention:

alive; died at sea; died on beach; killed on beach; died, circumstances unknown; animal back to sea on its own.

During intervention:



intervention unknown; no intervention; escaped while trying to catch; released alive; died during intervention/rehab same day; taken to rehab; euthanized.

Collection:

live animal sampled; nothing collected; fully collected for necropsy; sampled, then released for destruction; sampled, then left at location; necropsy at location; released for destruction; carcass disappeared.



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