

# Marine Mammal Stranding: West Coast Data

This lab allows students to explore and analyze *Level A Data* for Marine Mammal Strandings along the Oregon coast. Level A Data includes: Species Identification, Location of Stranding (latitude/longitude), Age, Sex, Status of animal (live, dead, fresh, decomposed), Signs of Human Interaction (entanglement, ship strike, gunshot), and Presence of Tags/Brands.

Data Collection Revision Based on:

CND (Can't Be Determined) = 3503 recorded strandings

Yes/Y (Stranding Cause Determined) = 514 recorded strandings

Websites:

- <https://www.mbari.org/wp-content/uploads/2018/05/June2018MBARI.pdf> (EARTH 2018 PPT presented by Jim Rice, Coordinator, Oregon Marine Mammal Stranding Network Marine Mammal Institute, Oregon State University)
- [https://docs.google.com/spreadsheets/d/1gRs4F37aSOeDcdkUfIwOjSKRVvBMee-G9\\_vc4eFfhKY/edit#gid=604398715](https://docs.google.com/spreadsheets/d/1gRs4F37aSOeDcdkUfIwOjSKRVvBMee-G9_vc4eFfhKY/edit#gid=604398715) (Raw Data for Oregon Marine Mammal Strandings, 2008 – 2017)
- <https://mmi.oregonstate.edu/ommsn> (Oregon Marine Mammal Stranding Network website)
- <http://www.nmfs.noaa.gov/pr/sars/species.htm#pinnipeds> (NOAA Marine Mammal Stock Assessment Reports (SARs) by Species/Stock)
- <https://www.mbari.org/wp-content/uploads/2018/05/44.3-Warlicketal.pdf> - Article: Spatio Temporal Characterization of Pinniped Strandings and Human Interaction Cases in the Pacific Northwest, 1991-2016 (Amanda J. Warlick, Deborah A. Duffield, Dyanna M. Lambourn, Steven J. Jeffries, James M. Rice, Joseph K. Gaydos, Jessica L. Huggins, John Calambokidis, Lesanna L. Lahner, Jennifer Olson, Erin D'Agnesse, Victoria Souze, Alysha Elsby, and Stephanie A. Norman)
- <https://ptmsc.org/programs/investigate/citizen-science/marine-mammal-stranding-network-and-necropsy-program/local-marine-mammals> (Species images and information for West Coast marine mammals)

## KEY FOR MARINE MAMMAL SPECIES:

- |                                                          |                                                                   |
|----------------------------------------------------------|-------------------------------------------------------------------|
| • Baird's beaked whale – <i>Beradius bairdii</i>         | • Minke whale – <i>Balaenoptera acutorostrata</i>                 |
| • Blue whale – <i>Balaenoptera musculus</i>              | • Northern elephant seal – <i>Mirounga angustirostris</i>         |
| • Bottlenose dolphin – <i>Tursiops truncatus</i>         | • Northern fur seal – <i>Callorhinus ursinus</i>                  |
| • California sea lion – <i>Zalophus californianus</i>    | • Northern right whale dolphin – <i>Lissodelphis borealis</i>     |
| • Common dolphin – <i>Delphinus delphis</i>              | • Pacific white-sided dolphin – <i>Lagenorhynchus obliquidens</i> |
| • Culvier's beaked whale – <i>Ziphius cavirostris</i>    | • Pantropical spotted dolphin – <i>Stenella attenuata</i>         |
| • Dall's porpoise – <i>Phocoenoides dalli</i>            | • Pygmy sperm whale – <i>Kogia breviceps</i>                      |
| • Fin whale – <i>Balaenoptera physalus</i>               | • Risso's dolphin – <i>Grampus griseus</i>                        |
| • Gray whale – <i>Eschrichtius robustus</i>              | • Sea otter – <i>Enhydra lutris</i>                               |
| • Guadalupe fur seal – <i>Arctocephalus townsendi</i>    | • Sperm whale – <i>Physeter macrocephalus</i>                     |
| • Harbor porpoise – <i>Phocoena phocoena</i>             | • Stejneger's beaked whale – <i>Mesoplodon stejnegeri</i>         |
| • Harbor seal – <i>Phoca vitulina</i>                    | • Steller sea lion – <i>Eumetopias jubatus</i>                    |
| • Humpback whale – <i>Megaptera novaeangliae</i>         | • Striped dolphin – <i>Stenella coeruleoalba</i>                  |
| • Killer whale – <i>Orcinus orca</i>                     |                                                                   |
| • Long-beaked common dolphin – <i>Delphinus capensis</i> |                                                                   |