

OBJECTIVE	FUNDING
Stock Assessment and Population Dynamics	\$24,575,000
<i>Distribution and Movements (surveys, tagging)</i>	\$7,616,000
<i>Size / abundance (surveys, estimation)</i>	\$5,637,000
<i>Stock assessment</i>	\$4,203,000
<i>Trends</i>	\$1,979,000
<i>Vital rates (survival, mortality, growth, R)</i>	\$1,899,000
<i>Population dynamics (modeling, sustainability, K, OSP)</i>	\$1,352,000
<i>Population genetics /stock delineation</i>	\$1,075,000
<i>Structure (ages, sex ratio)</i>	\$814,000
Technology Development	\$13,078,000
<i>Tags / Telemetry devices</i>	\$1,908,000
<i>Acoustic detection, classification and localization algorithms / models / software</i>	\$1,874,000
<i>Imaging / Image analysis (e.g., photographic, satellite, digital)</i>	\$1,124,000
<i>Mathematical / Statistical / Simulation models</i>	\$1,086,000
<i>Biological sampling devices (e.g., biopsy, blow, feces)</i>	\$1,069,000
<i>Biological testing methodologies</i>	\$1,050,000
<i>Database design / development / maintenance / archiving</i>	\$1,013,000
<i>Sampling platforms (e.g., gliders, UASs)</i>	\$981,000
<i>Habitat mapping / modeling</i>	\$881,000
<i>Acoustic density estimation models / software</i>	\$852,000
<i>Acoustic devices</i>	\$318,000
<i>Line transect methodology</i>	\$295,000
<i>Oceanographic sampling devices (e.g., physical, chemical)</i>	\$149,000
<i>Cameras (e.g., visible, IR)</i>	\$149,000
<i>GIS</i>	\$145,000
<i>Photo-ID</i>	\$125,000
<i>Fisheries gear modification or alternatives</i>	\$59,000
Ecology	\$11,856,000
<i>Habitat use</i>	\$3,057,000
<i>Trophic Interactions / Diet / Foraging ecology</i>	\$2,852,000
<i>Habitat characterization (oceanographic, prey-field factors)</i>	\$2,128,000
<i>Ecosystem / Environmental studies</i>	\$1,496,000
<i>Behavioral ecology</i>	\$1,135,000
<i>Population ecology</i>	\$557,000
<i>Traditional ecological knowledge</i>	\$45,000
Biology (Organismal)	\$9,981,000
<i>Physiology / Endocrinology / Biochemistry / Neurology / etc.</i>	\$3,487,000
<i>Behavior – Diving / Foraging / Feeding</i>	\$1,444,000
<i>Bioacoustics – sound reception</i>	\$919,000
<i>Genetics / Taxonomy</i>	\$889,000
<i>Behavior – Social / Reproductive</i>	\$708,000
<i>Behavior – Kinematics / Activity budgets / Energy budgets</i>	\$667,000
<i>Reproduction / Growth / Aging</i>	\$605,000
<i>Bioacoustics – sound production</i>	\$530,000
<i>Anatomy / Morphology</i>	\$244,000
<i>Paleontological studies</i>	\$70,000

Conservation and Management	\$9,179,000
Conservation	\$3,962,000
Management	\$3,025,000
Population protection / recovery	\$1,466,000
Co-management	\$603,000
Anthropogenic Sound Impacts	\$6,774,000
Military activities - sonar and explosives	\$5,136,000
Characterization / Analysis of sound budgets / soundscapes	\$721,000
Energy development – seismic surveys	\$298,000
Industrial activity – shipping	\$292,000
Industrial activity – pile driving	\$95,000
Energy development – drilling	\$54,000
Energy development – platform removal	\$54,000
Energy development – high resolution geophysical surveys (non-seismic)	\$1,000
Animal Health	\$3,084,000
Monitoring / Assessment	\$1,380,000
Disease	\$559,000
Body condition	\$468,000
Contaminants	\$271,000
Biotoxins	\$43,000
Human Dimensions	\$2,125,000
Social science (inc. education/outreach)	\$1,885,000
Economics	\$240,000
Fishery Interactions	\$2,025,000
Bycatch – mitigation	\$1,058,000
Bycatch - entanglement (inc. observer program)	\$767,000
Indirect / competitive interactions	\$1,000
Pollution Impacts	\$1,147,000
Persistent toxins (e.g., PCBs, dioxins, pesticides, heavy metals, TBT, endocrine disrupters, radioactive waste)	\$764,000
Marine debris – inc. plastics	\$137,000
Marine debris – derelict fishing gear	\$38,000
Nutrient runoff / HABs	\$22,000
Hydrocarbon spills/leaks (inc. dispersants)	\$19,000
Other Anthropogenic Impacts	\$948,000
Disturbance	\$474,000
Vessel strikes	\$321,000
Tourism - observing (whale watching, rookery viewing)	\$107,000
Tourism - feeding / swim-with	\$4,000
Coastal development / Dredging	\$4,000
Major Marine Mammal or Multidisciplinary Scientific Conference	\$250,000
Major marine mammal or multidisciplinary scientific conference (inc. support for SMM, ECS, etc.)	\$250,000