

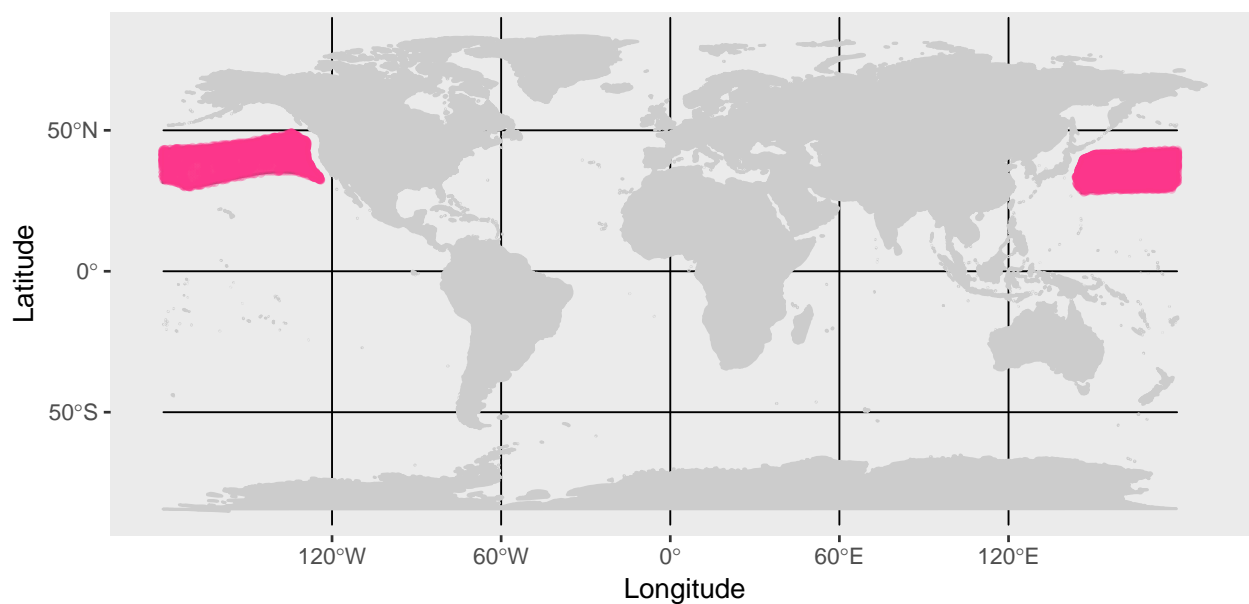
North Pacific Transition Zone and bordering currents (NP_19)

OBIS (Samuel Bosch and Pieter Provoost)

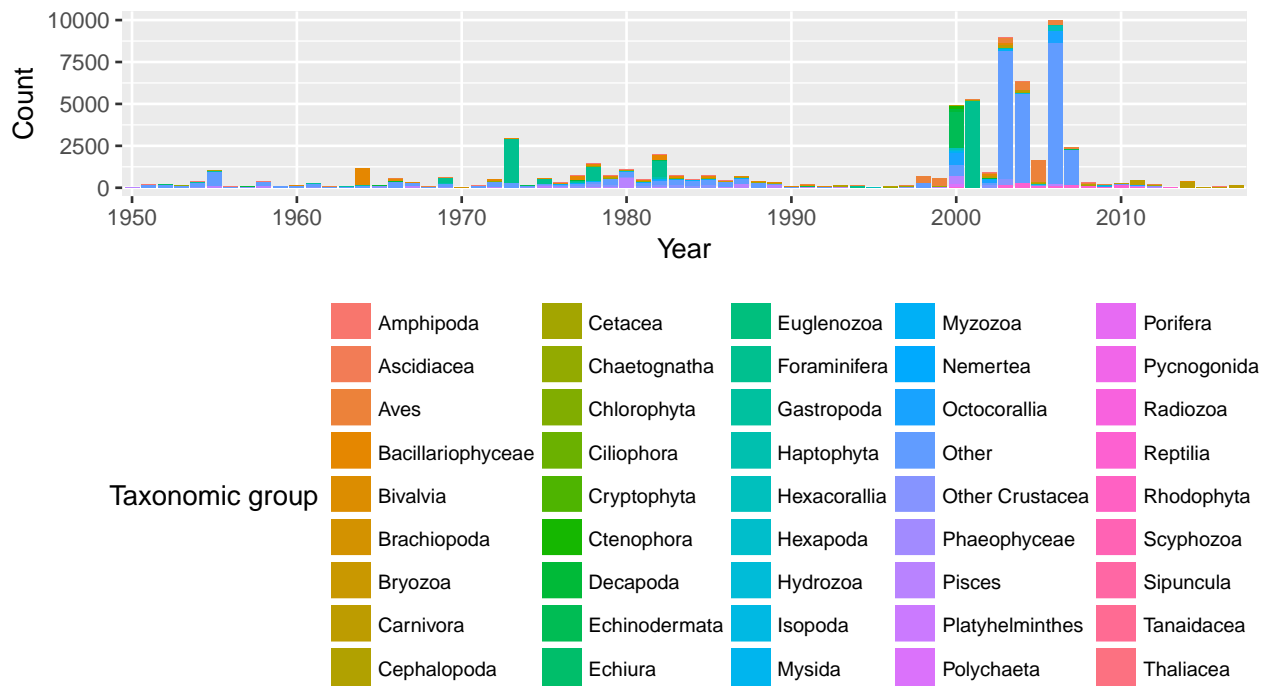
20 April, 2018

Overview

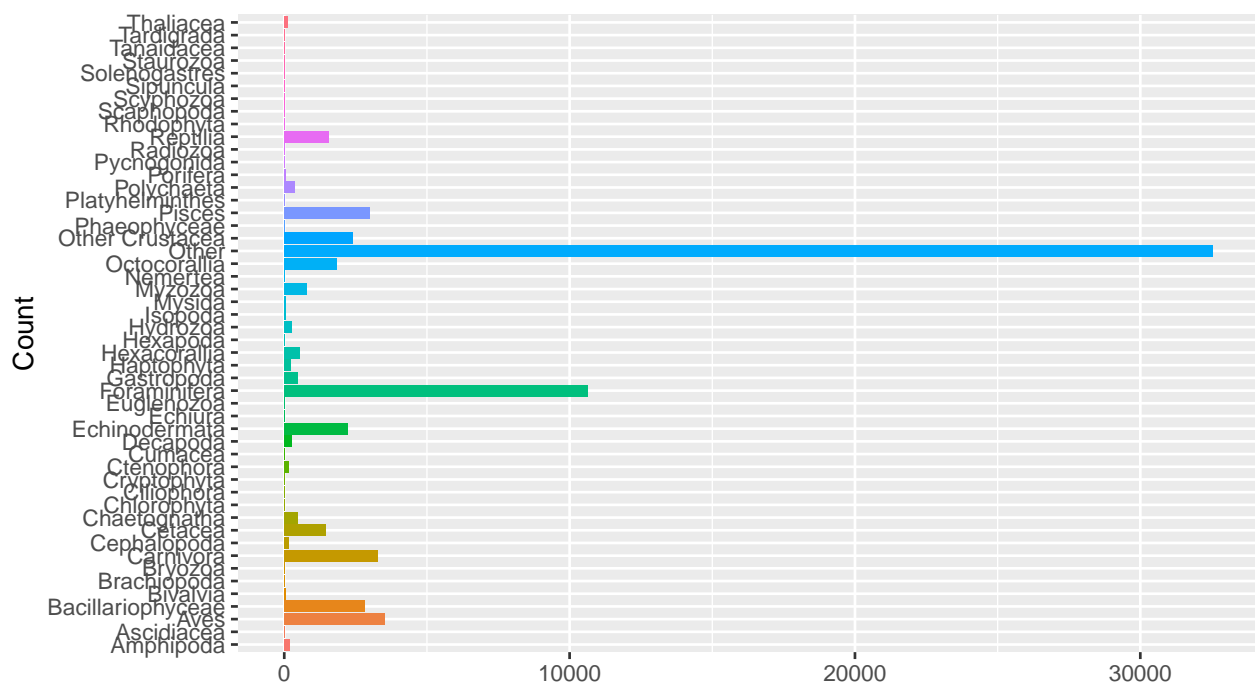
Records	69693
Datasets	99
Contributing institutes	70
Taxa	3014
Species	1856
Red List species	161
Invasive species	2
Harmful microalgae	28
Only observed here	94



Records per year and taxonomic group (1950 - present)

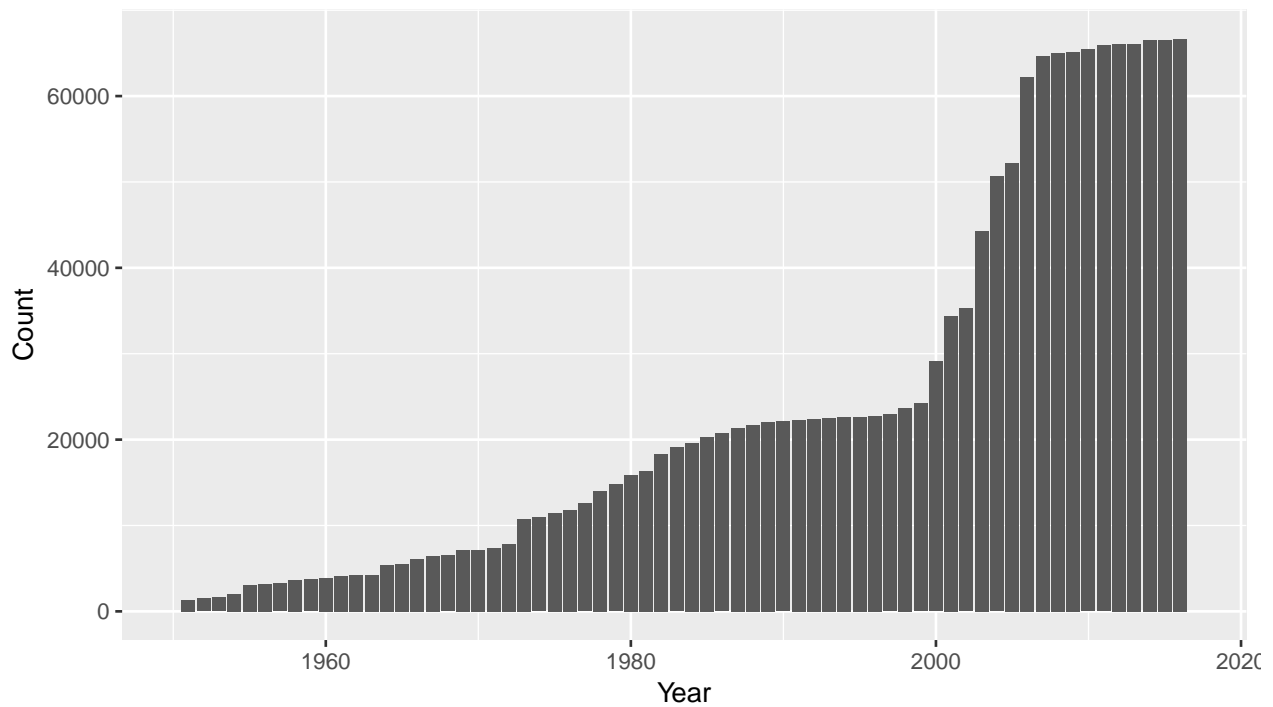


Species per taxonomic group



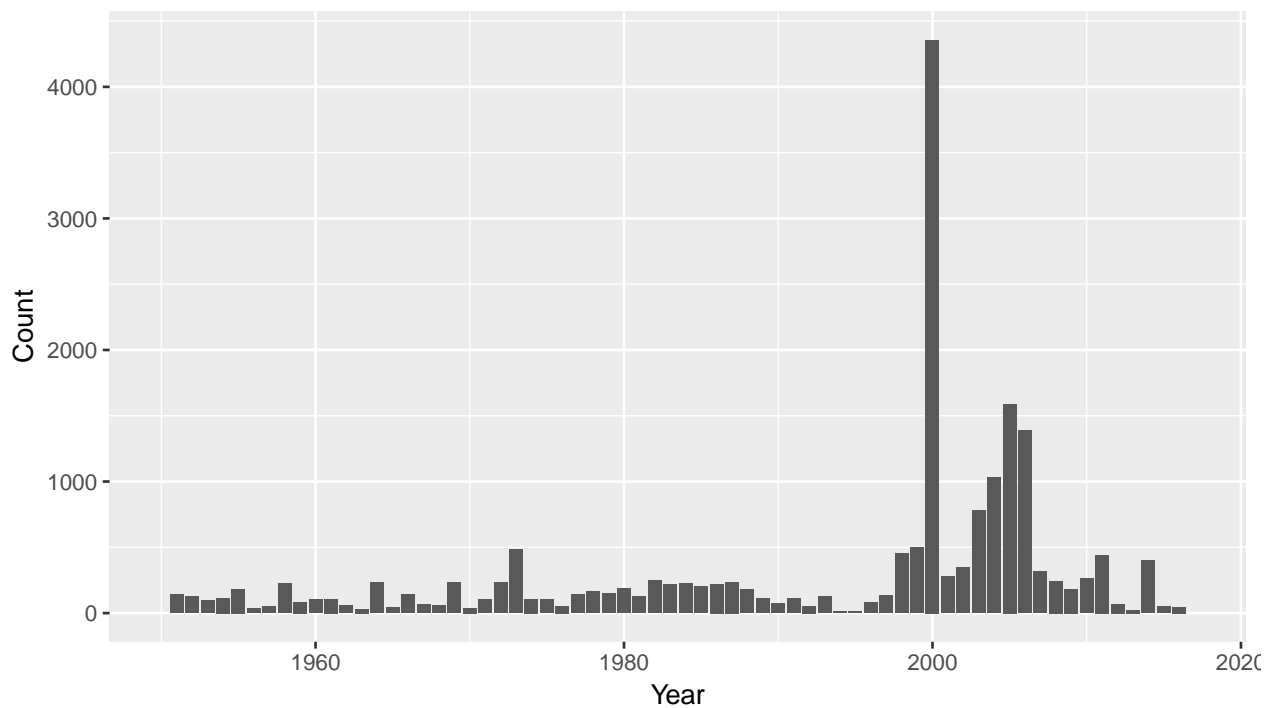
Species accumulation (1950 - present)

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Sampling events

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Red list species (top 20)

Name	Group	Status	Total records	Area records	% in area
<i>Caretta caretta</i>	Reptilia	EN	38217	1350	3.53
<i>Phoebastria immutabilis</i>	Aves	NT	6111	1803	29.50
<i>Mirounga angustirostris</i>	Carnivora	LC	7340	3228	43.98
<i>Eubalaena japonica</i>	Cetacea	EN	2002	38	1.90
<i>Balaenoptera physalus</i>	Cetacea	EN	68030	83	0.12
<i>Balaenoptera musculus</i>	Cetacea	EN	16952	75	0.44
<i>Grimpoteuthis bathynectes</i>	Cephalopoda	LC	10	8	80.00
<i>Physeter macrocephalus</i>	Cetacea	VU	53798	946	1.76
<i>Dermochelys coriacea</i>	Reptilia	VU	13513	205	1.52
<i>Bathyraja spinosissima</i>	Pisces	LC	36	16	44.44
<i>Phoebastria nigripes</i>	Aves	NT	11679	1233	10.56
<i>Thunnus orientalis</i>	Pisces	VU	9892	100	1.01
<i>Takifugu stictonotus</i>	Pisces	LC	6	3	50.00
<i>Amphistichus koelzi</i>	Pisces	LC	2	1	50.00
<i>Grimpoteuthis tuftsi</i>	Cephalopoda	DD	8	8	100.00
<i>Balaenoptera borealis</i>	Cetacea	EN	11127	8	0.07
<i>Callorhinus ursinus</i>	Carnivora	VU	2748	23	0.84
<i>Lampanyctus jordani</i>	Pisces	LC	79	20	25.32
<i>Chimaera owstoni</i>	Pisces	DD	3	3	100.00
<i>Phoebastria albatrus</i>	Aves	VU	1610	14	0.87

Invasive species (top 20)

Name	Group	Total records	Area records	% in area
<i>Styela plicata</i>	Ascidiacea	727	4	0.55
<i>Pterois volitans</i>	Pisces	2436	1	0.04

Harmful microalgae (top 20)

Name	Group	Total records	Area records	% in area
Pronoctilucaceae	Myxozoa	8	1	12.50
Microcystis	Other	437	2	0.46
Dinophysis fortii	Myxozoa	1090	4	0.37
Gyrodinium	Myxozoa	49333	31	0.06
Amphidinium	Myxozoa	12512	12	0.10
Pseudo-nitzschia pungens	Bacillariophyceae	6221	5	0.08
Prorocentrum	Myxozoa	78124	28	0.04
Pseudo-nitzschia seriata	Bacillariophyceae	37752	25	0.07
Nitzschia	Bacillariophyceae	52058	27	0.05
Dinophysis ovum	Myxozoa	1313	1	0.08
Pseudo-nitzschia delicatissima	Bacillariophyceae	39536	24	0.06
Lingulodinium polyedrum	Myxozoa	2691	2	0.07
Phalacroma rotundatum	Myxozoa	2811	2	0.07
Gymnodinium	Myxozoa	56085	18	0.03

Name	Group	Total records	Area records	% in area
Peridinium	Myzozoa	23248	14	0.06
Gonyaulax	Myzozoa	28798	15	0.05
Protoceratium reticulatum	Myzozoa	3312	2	0.06
Prorocentrum cordatum	Myzozoa	16073	5	0.03
Protoceratium	Myzozoa	3457	2	0.06
Dinophysis	Myzozoa	93504	5	0.01

Observed in this area only (top 20)

Name	Group	Total records	Area records	% in area
Bolivina gracilis	Foraminifera	110	110	100
Bolivina inconspicua	Foraminifera	55	55	100
Acarinina africana	Foraminifera	51	51	100
Globanomalina luxorensis	Foraminifera	41	41	100
Acarinina sibaiaensis	Foraminifera	20	20	100
Pseudoclavulina globulifera	Foraminifera	16	16	100
Discorbis perovalis	Foraminifera	13	13	100
Grimpoteuthis tuftsi	Cephalopoda	8	8	100
Chaceon imperialis	Decapoda	6	6	100
Pararotalia debourlei	Foraminifera	6	6	100
Pareucalanus parki	Other Crustacea	6	6	100
Lepidopus calcar	Pisces	5	5	100
Spirillina neocomiana	Foraminifera	5	5	100
Valvulina angulosa	Foraminifera	5	5	100
Haplopodia petersoni	Other Crustacea	5	5	100
Asceptrulum axialis	Porifera	5	5	100
Barathricola rimensis	Other Crustacea	5	5	100
Paraulopus novaeseelandiae	Pisces	4	4	100
Lenticulina cuvillieri	Foraminifera	4	4	100
Lenticulina kugleri	Foraminifera	4	4	100

Newest species in this area (top 20)

Name	Records	Area records	% in area	Last record
Limacina helicina	7074	1	0.01	2016
Xenostrobus pulex	751	1	0.13	2014
Caretta caretta	38217	1350	3.53	2013
Candacia bipinnata	1031	19	1.84	2012
Copilia mirabilis	852	11	1.29	2012
Cosmocalanus darwinii	740	7	0.95	2012
Cosmocalanus darwinii	740	13	1.76	2012
Euchaeta longicornis	493	6	1.22	2012
Euchirella curticauda	247	4	1.62	2012
Euphausia diomedae	84	3	3.57	2012
Euphausia gibboides	367	1	0.27	2012
Euphausia mutica	231	3	1.30	2012
Euphausia recurva	290	6	2.07	2012

Name	Records	Area records	% in area	Last record
<i>Euphausia similis</i>	236	3	1.27	2012
<i>Fiona pinnata</i>	193	5	2.59	2012
<i>Lucicutia flavicornis</i>	11696	30	0.26	2012
<i>Nannocalanus minor</i>	21393	12	0.06	2012
<i>Neocalanus gracilis</i>	10439	15	0.14	2012
<i>Oceanodroma leucorhoa</i>	28084	31	0.11	2012
<i>Phaenna spinifera</i>	317	1	0.32	2012

No longer observed in this area since 1950 (top 20)

Name	Records	Area records	% in area	Last record
<i>Eubalaena japonica</i>	2002	38	1.90	1913
<i>Rhopalonema velatum</i>	437	9	2.06	1934
<i>Farranula concinna</i>	586	5	0.85	1933
<i>Phalacrophorus pictus</i>	161	4	2.48	1928
<i>Vanadis formosa</i>	408	4	0.98	1928
<i>Siriella thompsonii</i>	505	4	0.79	1929
<i>Calanus helgolandicus</i>	76074	3	0.00	1933
<i>Solmissus marshalli</i>	135	3	2.22	1934
<i>Pegantha martagon</i>	209	3	1.44	1933
<i>Pandea conica</i>	83	3	3.61	1933
<i>Gobiesox maeandricus</i>	93	2	2.15	1883
<i>Pegantha triloba</i>	52	2	3.85	1934
<i>Pegantha laevis</i>	21	2	9.52	1934
<i>Geryonia proboscidalis</i>	172	2	1.16	1934
<i>Onychocorycaeus ovalis</i>	363	2	0.55	1933
<i>Alciopina paumotanus</i>	83	2	2.41	1928
<i>Neoturris pelagica</i>	3	2	66.67	1933
<i>Acrocalanus longicornis</i>	1869	1	0.05	1933
<i>Atheresthes stomias</i>	24769	1	0.00	1890
<i>Ceratomysis spinosa</i>	5	1	20.00	1906

Datasets (top 20)

Name	Node	Provider	Taxa	Area taxa	Records	Area records	% in area
MICROBIS database	MicROBIS	ICoMM	2412	557	889586	23557	2.65
World Ocean Database 2009	no RON affiliation	NODC	4400	553	3181610	10615	0.33
PANGAEA - Data from the Ocean Drilling Program (ODP)	EurOBIS	Flanders Marine Institute (VLIZ)	4206	187	329576	5171	1.57
PANGAEA - Data from the Deep Sea Drilling Project (DSDP)	EurOBIS	Flanders Marine Institute (VLIZ)	4792	305	336470	5033	1.50
Video Annotation and Reference System (VARS) database	USOBIS	OBIS-USA	676	85	176673	4480	2.54
TOPP Summary of SSM-derived Telemetry	OBIS-SEAMAP	Stanford University	10	8	10692	2291	21.43
JODC Dataset	OBIS Japan	Japan Oceanographic Data Center	1314	464	283701	2136	0.75
NOAA Deep Sea Corals Research and Technology Program	USOBIS	U.S. Geological Survey	1392	45	324567	1759	0.54
Continuous Plankton Recorder Dataset (SAHFOS) - Pacific Zooplankton	EurOBIS	The Sir Alister Hardy Foundation for Ocean Science The Laboratory (SAHFOS)	173	69	57285	1065	1.86
SeamountsOnline (Seamount Biota)	SeamountsOnline	CoML	3772	306	18632	1044	5.60
TOPP Albatrosses 2002-06 (aggregated per 1-degree cell)	OBIS-SEAMAP	San Jose State University	2	2	1960	983	50.15
Historical distribution of whales shown by logbook records 1785-1913	OBIS-SEAMAP	WCS Canada	5	2	34059	944	2.77
UWFC Ichthyology Collection	USOBIS	University of Washington Burke Museum	1186	130	110699	862	0.78
TOPP northern elephant seal (<i>Mirounga angustirostris</i>) ARGOS satellite tracking	no RON affiliation	CoML	1	1	1445	803	55.57
NMFS Turtle Tracking (aggregated per 1-degree cell)	OBIS-SEAMAP	NOAA Pacific Islands Fisheries Science Center	2	2	1529	783	51.21
CMarZ (Census of Marine Zooplankton)-Asia Database	Antarctic OBIS	SCAR-MarBIN	154	17	2851	692	24.27
Continuous Plankton Recorder Dataset (SAHFOS) - Pacific Phytoplankton	EurOBIS	The Sir Alister Hardy Foundation for Ocean Science The Laboratory (SAHFOS)	164	64	23689	500	2.11
NMNH Invertebrate Zoology Collections	USOBIS	Smithsonian Institute	37826	250	550789	489	0.09
Tern Island Albatrosses - 1999 (aggregated per 1-degree cell)	OBIS-SEAMAP	Wake Forest University	2	2	1045	464	44.40
Tern Island Albatrosses - 1998 (aggregated per 1-degree cell)	OBIS-SEAMAP	Wake Forest University	2	2	1052	414	39.35

Institutes (top 20)

	Name	Acronym	Parent institute	Datasets	Area taxa	Area records
∞	The Josephine Bay Paul Center in Camparative Molecular Biology and Evolution	WHOI	Woods Hole Oceanographic Institution;	1	557	23557
	National Oceanic and Atmospheric Administration	NOAA	Marine Biological Laboratory	5	617	12843
	Flanders Marine Institute (VLIZ)			4	536	10563
	Research Institute	MBARI	Monterey Bay Aquarium	1	85	4480
	Marine Laboratory		Duke University; Nicholas School of the Environment and Earth Sciences	10	77	3471
	Hopkins Marine Station		Stanford University	1	8	2291
	Oceanographic Data and Information Division, Hydrographic Department, Japan Coast Guard	JODC	Japan Oceanographic Data Center	1	464	2136
	U.S. Geological Survey	USGS		1	45	1759
	Costa Lab Mammals			8	8	1593
	The Laboratory	SAHFOS	The Sir Alister Hardy Foundation for Ocean Science	2	133	1565
	Costa Lab		University of California, Santa Cruz	5	6	1363
	Pacific Islands Fisheries Science Center	NOAA-PIFSC	National Oceanic and Atmospheric Administration; National Marine Fisheries Service	3	4	1284
	San Diego Supercomputer Center	UCSD-SIO	University of California, San Diego; Scripps Institution of Oceanography	1	306	1044
	San Jose State University			1	2	983
	Wildlife Conservation Society	WCS		1	2	944
	Wake Forest University			2	4	878
	University of Washington Burke Museum			1	130	862
	Biology Departement		University of California, Santa Cruz	1	1	803
	National Marine Fisheries Service	NOAA-NMFS	National Oceanic and Atmospheric Administration	1	2	783
	Ocean Research Institute	ORI	University of Tokyo	1	17	692