

INDEX.

[NOTE.—The references are to page-figures in brackets.]

	Page.		Page.
Ada E. Terry, schooner.....	51	Bluefish, abundance of.....	22, 25
Agonidæ.....	63, 75	bait for.....	21
Albatross.....	1, 69, 88	habitat of.....	22, 34
cruises of.....	61, 96	taking of.....	14, 15, 16, 17, 18, 21, 23, 25, 27, 28, 35
equipment of.....	59	time of appearance of.....	34
Alepocephalidæ.....	64, 78	Boilers, work on.....	3
Alepocephalus agassizii.....	64, 78	Bosman, R. T.....	18
productus.....	64, 78	Boston Fish Bureau.....	52
Alewives, taking of.....	18	Boush, C. J.....	102
Alice, schooner.....	51	Bowditch's Navigator.....	98, 100
Almy, Jacob.....	10, 31, 32, 35, 40, 44	Branford, Conn., fish factory at.....	26
Amphipods.....	10	Brosnius brosmæ.....	63, 73
Analysis of water.....	89	flavescens.....	73
Anguilla conger.....	84	vulgaris.....	73
Anguillidæ.....	65, 84	Brotulidæ.....	62, 70
Annie, schooner.....	17	Brown & Brightman.....	32
Anthozoa.....	61	Brown & Co., S. S.....	20
Apparatus, deep-sea, testing of.....	2	Brown & Lennox.....	10
Argyrolepocelus hemigymnus.....	64, 80	Bulkheads.....	88
Aspidophoroides monopterygius.....	63, 75	Bureau of Medicine and Surgery.....	89
Atlantic and Virginia Fertilizing Company.....	23	Navigation.....	97, 98
Back River menhaden factory.....	18	Burgees, G. T.....	13
Balley, W. G.....	27	Burns, John W.....	26
Baird, G. W.....	1, 102	Butterfish, taking of.....	21, 25
Spencer F.....	4, 10, 48, 89	Cabin.....	88
Baird's distiller.....	89	Callinectes lavinisculus.....	60
Bait.....	58	Cancer.....	60
for codfish.....	86	Carangidæ.....	63, 77
Baker, A. C.....	102	Caranx chrysus.....	77
Ball, Nicholas.....	33	hippos.....	77
Baltimore, Md., docking of vessel at.....	101	pisquetus.....	63, 77
Bar and tangles.....	104	Caulolepis longidens.....	64, 78
Barnacles.....	102	Cayenne as food of mackerel.....	37
Basozetus normalis.....	62, 70	Centridermichthys uncinatus.....	76
Bathymyzon bairdii.....	65, 85	Chænopsetta ocellaris.....	67
Bathysaurus agassizii.....	64, 78	Chalinus simula.....	62, 69
Beam trawl.....	103, 104, 105	Chandler, W. E.....	101
Beatley, L. J.....	14	Chart-room.....	98
Beckwith, F. H.....	20	Chauliodontidæ.....	65, 83
Behren's apparatus.....	69	Chauliodus sloani.....	65, 83
Bellows, Rasquith, Squires & Co.....	17	Chemical apparatus.....	89
Benedict, James E.....	59	Cherry Point, menhaden factory at.....	18
Berth deck.....	92	Chesapeake Bay menhaden factories.....	18
Berygidæ.....	64, 77	Chimæra abbreviata.....	65, 85
Bishop, O. H.....	24	Chimæridæ.....	65, 85
Blackfish, appearance of.....	5	Chiridotea taftsi.....	60
Blennius chuss.....	70	Chronometers.....	66, 98
regius.....	71	errors of.....	99
Bliss & Creighton chronometer.....	90, 98	Citharichthys arctifrons.....	62, 60
Bliss's patent log.....	96	Coast and Geodetic Survey.....	101
Block Island fisheries.....	38, 34		

	Page.		Page.
Coast chart, perfection of.....	7	Dixon Oil and Guano Company's works.....	25
Codfish, bait for.....	36	Dogfish, abundance of.....	54
food of.....	31, 33, 55	taking of.....	9, 45, 54, 55, 57
habitat of.....	35, 36	Dolphin, taking of.....	57
menhaden in stomachs of.....	31, 33	Doran, S. H.....	23
migration of.....	33	Downs, W.....	21
scarcity of.....	36	Draught.....	88
schooling of.....	35	Dredge.....	104
size of.....	35	ropo, loss of.....	7, 38
spawning of.....	33, 35	tangles.....	103
taking of.....	35, 36, 45, 54	Dredging-engine.....	90
time of appearance of.....	33	Dredging and trawling record.....	103, 104
value of.....	36	Dynamo engine.....	98
Cold-room.....	90	Echinoderms.....	61
dimensions of.....	91	Edison Company.....	3
use of.....	91	Electric-light apparatus.....	8
Collins, J. W.....	44, 48, 58, 59	use of.....	9, 28, 29, 30, 42, 56, 60, 61
Commissioned officers.....	102	lighting.....	94
Compass, testing of.....	4	plant.....	2
Conger occidentalis.....	84	Ellen M. Adams, schooner.....	51
oceanicus.....	65, 84	Enchelyopus regalis.....	71
vulgaris.....	84	Engine-room.....	88, 93
Copeland, C. W.....	1	Engines.....	88
Copepoda.....	60	working of.....	1
Coral, specimens procured.....	39	Equipment of laboratory.....	90
Corwin & Cartwright.....	23	Errors of the chronometer.....	99
Coryphæna globiceps.....	77	Eurypharyngidæ.....	65, 85
sueuri.....	63, 77	Excelsior Oil Works.....	24
Coryphænidæ.....	63, 77	Explorations, deep-sea.....	3, 5, 9, 28, 29, 30, 38, 39, 41, 42, 43, 46, 47, 48, 95
Coryphænoides carapinus.....	62, 60	Falcon Oil Works.....	25
rupestris.....	62, 69	Fares, apportionment of.....	35, 80
Cottidæ.....	63, 75	Fire-room.....	93
Cottunculus microps.....	63, 76	Fish Hawk.....	11
Cottus acadian.....	75	Fish, scarcity of.....	41
æneus.....	63, 75	Fish-traps, decrease of fish taken in.....	18
mitchilli.....	75	Fishes, economic value of.....	36
monopterygius.....	75	taken, list of.....	62
uncinatus.....	76	Fishing-ground, location of.....	21
Crabs in stomachs of codfish.....	55	Flounders in stomachs of codfish.....	55
taking of.....	47, 57	taking of.....	28
Crangon vulgaris.....	60	Floyd, David G.....	25
Crevallé, taking of.....	57	Food-fishes, abundance of.....	22
Crowder, J. H.....	15	scarcity of.....	23, 32
Cruising of Albatross.....	96	Food of codfish.....	31, 33, 55
Crustacea.....	61	of mackerel.....	37
Cunner, taking of.....	8, 55	of menhaden.....	27, 32
Cusk, habitat of.....	30	of shark.....	47, 57
taking of.....	36	Foraminifera, procuring of.....	9, 42
Cyclothone lusca.....	64, 80	Gadidæ.....	63, 70
Dager, schooner.....	14	Gadus auratus.....	72
Decapoda.....	60	brosme.....	73
Deck-house.....	88	callarias.....	72
Deep-sea apparatus, testing of.....	2	carbonarius.....	73
explorations.....	3, 5, 9, 28, 29, 30, 38, 39, 41, 42, 43, 46, 47, 48, 95	cimbricus.....	72
trawl.....	103, 104	macrocephalus.....	72
Delaware Breakwater, menhaden factories at.....	10	morrhua.....	63, 72
Density of sea water.....	108, 109, 110	ogæ.....	72
De Voe & Co.....	102	ogak.....	72
Diastylis sculptus.....	60	tenuis.....	70
Diehl, S. W. B.....	4, 97	virens.....	73
Dinghy, use of.....	8	Gale, Albatross in.....	45
Displacement.....	88	Galeorhinidæ.....	65, 87
Dixon, Hiram R.....	25	Gastrostomus bairdii.....	65, 86
		General Carmichel, schooner.....	14

	Page.		Page.
George Alvin	15	Leptocephalidæ	65, 84
Georgeanna, smack	33	Leptocephalus	65, 84
Gill, Theodore	62	Lighting	88, 94
Glyptocephalus cynoglossus	62, 67	of berth deck	92
Goosefish, taking of	45, 55	Linen, James	20
Grampus, appearance of	36	Lizzie Bell, schooner	13
Grapsel dredge	104	Lobsters, abundance of	55
Great Skua gull	51	habitat of	55
Greenfish, taking of	14	in stomachs of codfish	55
G. S. Allen, steamer	19	taking of	45, 55
Gulf Stream	5, 38, 40, 43, 60, 100	Log	96
Gulls, appearance of	58	Lophilidæ	62, 66
Haddock, habitat of	36	Lophilatlus	62
taking of	30	Lophius americanus	66
Hagdons, abundance of	51	pisctorius	62, 66
Hake, taking of	9, 41, 45, 54, 55	Louisa A. Muir, schooner	14
Halibut, habitat of	36	Louise, smack	32
taking of	36	Luce Brothers	11, 19, 20, 28
Haliæta senticosa	62, 66	Lycodes verrilli	63, 73
Haloporphyrus viola	63, 71	Lycodidæ	63, 73
Halosauridæ	64, 79	Lycodonus mirabilis	63, 74
Halosaurus goodii	64, 79	Lydia Ryder, schooner	36
macrochir	64, 79	Lyons, T. A.	96
Harriet Howarth, schooner	15	McAvoy, S. M.	102
Hawkins Brothers	24	Mackerel, abundance of	27, 37
Hawkins, John	102	appearance of	0, 31, 34, 40, 44, 45, 54
Haynie, N. A.	14	as bait for codfish	36
Hazen, W. B.	53	food of	37
Heating	88, 93	habitat of	19, 20, 27, 36, 37
Hemipterites acadianus	75	migration of	37, 50, 51
americanus	63, 75	schooling of	36
Herndon, C. G.	88, 102, 108	size of	37
Herring as bait for codfish	36	taking of	20, 21, 22, 26, 27, 28, 30, 37, 52
taking of	36	time of appearance of	20, 21, 23, 27,
Heteromysis formosa	60	32, 33, 36, 37, 38	16
Hickory shad, taking of	18	McNamara, A. R.	02, 68
Hilgard's salinometer	90	Macruridæ	61
Histiobranchus infernalis	64, 82	Macrurus	62, 69
Homarus americanus	60	asper	62, 68
Horizontal needle	4, 97	bairdii	62, 68
Hydrographic Office	101	carminatus	62, 68
survey	90	Magnetic observations	4
Hyperchiorist tanneri	64, 79	Magnetic survey	10, 97
Ice-house	90	Malthidæ	62, 66
dimensions of	91	Mansfield, Charles D.	101, 102
Iceland uncinatus	63, 76	Marsh, Booth & Co	14
Idotea irrorata	60	Martin, S. J.	53
Irvin & Co., L. H.	18	Mary E., sloop	21
Jaegers, occurrence of	51	Mary Woods, schooner	11, 22
James & Co.	16, 17	May, S. H.	102
Jennings, W. M.	23	M. B. Tower, schooner	6
J. W. Luce, sloop	18	Medical instruments	89
Kelsey, E. R.	26	Melanostigma gelatinosum	63, 74
Ketchum, C. E.	16	Menhaden, abundance of	18, 19, 21, 22, 24, 25, 28
George	18	annual catch of	21, 22, 23, 24,
Kidder, J. H.	103	25, 26, 28, 32	11, 31, 33
King, H. R.	102	appearance of	21, 50, 57, 58
Kingfish, taking of	23	as bait	13, 14, 15, 16, 17,
Kitchen	89	comparative catch of	18, 19, 20, 21, 22, 23, 27, 32,
Labichthys carinatus	64, 82	18, 19, 20, 21, 22, 23, 24,	25, 28
elongatus	64, 83	economic value of	18, 19, 21, 22, 23,
Laboratory	89	factories, capacity of	24, 25, 26, 28, 32
Lawrence, John L.	25		
Length	88		

	Page.		Page.
Menhaden factories, location of.....	11, 18, 19, 21, 22,	Onos rufus	63, 72
	23, 24, 25, 26, 32	Osborn & Sons	22
food of	27, 82	Ostrich, schooner	16
habitat of	12, 13, 14, 15, 16	Oyster, habitat of	34
19, 20, 21, 22, 23, 26, 27, 32, 33		Palaemonetes vulgaris	60
increase in number of	17	Pantry	93
in stomachs of codfish	81, 83	Paralichthys dentatus	62, 67
migration of	15, 16, 17, 19, 20,	oblongus	62, 68
21, 22, 24, 25, 26, 32, 33, 34		Parasites	55, 61
schooling of	23, 24, 26, 27, 32, 33	Paratractus pisequetos	77
size of	15, 17, 19, 20, 21, 22, 23, 26, 27, 32	Parkinson & Frodeham chronometer	96, 96
spawning of	12, 16, 24, 27, 82, 33	Peconic Oil Works	23
stranding of	18	Perca marinus	76
taking of	11, 12, 13, 14,	norwegica	76
15, 16, 19, 20, 21, 33		Peristedium miniatum	63, 75
time of appearance of	13, 14, 15, 16,	Peters, E. M.	36
17, 18, 19, 20, 22, 23, 24, 25, 26, 27, 28, 32		Petrels, abundance of	39
Merlangus purpureus	73	Petromyzon americanus	85
Merluccius bilinearis	63, 72	bairdii	65, 85
Meteorological record	111, 112	marinus	65, 85
M. E. Torrey, schooner	6	Petromyzontidæ	65, 85
Micrometer telescope	96, 98	Petty officers	102
Miles, George W.	26	Photographer	90
Milford, Conn	20	Phycis chesteri	63, 66, 71
Miller, G. A.	102	obusa	63, 66, 70
N. B.	102	punctatus	71
Miner, R. H.	62, 102	regalis	71
Mollusca	61	regius	63, 71
Monolene sessilicauda	62, 66	tenuis	63, 70
Montauk Oil Company	25	Plankatank River menhaden factories	18
steamer	26	Pierce, D. T.	37
Morran, M. J.	27	Pilot-house	88
Morrhua americana	72	Platessa oblonga	67
Mother Carey's chickens	61	ocellaris	67
appearance of	8	plana	67
Mud-bag	59	quadrocellata	68
Muræna nigra	84	Plectromus suborbitalis	64, 77
pinnata	81	Pleuronectes americanus	62, 67
Mysis americanus	60	cynoglossus	67
Myxine glutinosa	65, 85	melanogaster	67
Myxlinidæ	65, 85	oblongus	68
Myzont	62	Pleuronectidæ	62, 66
Nannie E. Waterman, schooner	87	Pleuronectes dentatus	67
Napier diagram	97	oblongus	67
National Museum	61	Pogies, taking of	18
Naval hospitals	95	Pollaohius carbonarius	63, 73
Navy Department	96, 97, 98	Pollock, habitat of	26
Neamoug Oil Works	24	Porpoises, abundance of	37
Needles, horizontal	4, 97	appearance of	5, 11, 31,
vertical	4, 97	38, 35, 36, 40, 48, 55	61
Negretti-Zambra deep-sea thermometer	29	taking of	18
thermometers, loss of	28	time of appearance of	27
Negus chronometer	96, 98	Portland, steamer	97
Nemichthyidæ	64, 82	Potomac River	24
Nemichthys scolopaceus	64, 82	Preston & Raynor	25
Nereis megalops	60	Price, Thomas T.	63, 74
New York, N. Y., docking of vessel at	10	palmipes	74
Norfolk Naval Hospital	95	pilatus	74
Notacanthidæ	64, 83	punctatus	63, 74
Notacanthus analis	64, 83	Prowess, schooner	16
phasganorus	64, 83	Pseudorhombus dentatus	67
Novelty Oil Works	24	oblongus	67
Officers	102	ocellaris	67
Ommastrephes illecebrosus	60	Ptilochirus pinguis	60
Onos cimbricus	63, 72		

	Page.		Page.
Puffing pigs, abundance of	33	<i>Sigmops stigmaticus</i>	65, 84
<i>Puffinus major</i> , abundance of	51	Sigabee's deep-sea sounding machine	5
Pusey & Jones Company	1, 2, 88	Sigabee water-cup	29, 42, 90
Pusey, C. W.	1	<i>Simenchelys parasiticus</i>	65, 84
Quickstep, steamer	20	Skate, taking of	9, 41, 45, 65
Rachet, D.	33	Skinner & Sons' Marine Railway, William	101
<i>Raja eglanteria</i>	65, 80	Smith, James	24
<i>laevis</i>	65, 86	Sanderson	44
<i>ocellata</i>	65, 80	S. I.	60
<i>radiata</i>	65, 86	Yarrington & Co.	23
<i>Rallidæ</i>	65, 80	Sommers, Edward	17
Rake dredge	103, 104	Sounding wire, loss of	28
Ranger Oil Company	25	Spanish mackerel, taking of	13, 17, 18
Read, George H.	101	Specific gravities, taking of	42, 46
Record of speed of trawling and sounding	113, 114	Specific gravity of sea water	90, 108
Reed & Son, E. W.	14, 15	Specimen cup, loss of	30
Repairs	40, 42	Specimens of coral procured	39
<i>Rhombus cryptosus</i>	77	procuring of	7, 30, 42, 46, 48, 66, 67, 68, 69, 70
Richard K. Fox, schooner	6	Speed	88
Richie liquid compass	96	Spicer, William	19
Roberts's compound	102	Spikes	66
Rogers's micrometer telescope	90, 98	Spinncidæ	65, 86
Rope, loss of	31	<i>Spirovomer goodii</i>	64, 82
Safford, W. S.	44	<i>Squalus acanthias</i>	65, 86
<i>Salmo mülleri</i>	81	Squid, abundance of	41
Salmon, taking of	23	appearance of	29, 66
Salpa, appearance of	8	as bait for codfish	36
Samuel S. Brown, steamer	20	attracted by electric light	29
Saunders, W. F.	10	in stomach of shark	47, 67
Schroeder, Seaton	96, 102	taking of	36, 66
Scientific instruments	80	Squires, George P.	- 17
library	69	Stanley, F. L.	102
<i>Scollodon terra-novæ</i>	65, 87	Star-fish, taking of	9, 47, 67
Scopelidæ	64, 81	Starry Flag, schooner	6
<i>Scopelus glacialis</i>	81	State-rooms	80, 93
<i>mülleri</i>	64, 81	Steam-heaters	93
<i>Scorpena americana</i>	75	Steerage	93
<i>dactyloptera</i>	70	<i>Stephanoberyx monæ</i>	64, 77
Scorpenidæ	63, 70	Stephen Hopkins, schooner	15
Screw-propellers	88	<i>Sternoptychidæ</i>	64, 80
Scup, habitat of	34	<i>Sternoptyx diaphana</i>	64, 80
taking of	25	<i>hemigymnus</i>	80
<i>Scyllidæ</i>	65, 87	<i>mediterranea</i>	80
<i>Scyllium rotiferum</i>	65, 87	<i>Sthenotutlis bartramii</i>	60
Sea bass, taking of	23, 32, 45, 65	<i>Stomias ferox</i>	64, 79
Sea water, specific gravity of	108	<i>Stomatidæ</i>	64, 79
temperature and density of	108, 109, 110	<i>Stomodon bilinearis</i>	72
<i>Sebastes marinus</i>	63, 76	Store-rooms	93
<i>norvegicus</i>	76	<i>Stromatoidæ</i>	63, 77
<i>Sebastesoplus dactylopterus</i>	63, 76	<i>Stromatous triacanthus</i>	68, 77
Seine, dimensions of	13, 14, 19, 20, 21, 23, 26, 27, 32	Sturtevant exhaust fan	93
durability of	13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 32	Sword-fish, appearance of	28, 31, 33, 34, 35, 40
length of	13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 26, 27, 32	<i>Synaphobranchidæ</i>	64, 81
Selaohian	62	<i>Synaphobranchus</i>	65, 84
Serial temperatures, method of taking	29	<i>pinnatus</i>	64, 81
table of	106	<i>Synodontidæ</i>	64, 78
taking of	30, 38, 42, 48	Tailor, salt-water, abundance of	22, 25
Serrivomer beaulti	64, 182	bait of	21
Shad, taking of	18, 20, 21	habitat of	34
Sharks, abundance of	19, 20	taking of	14, 15, 16, 17, 18, 19, 20, 23, 25, 27, 35
food of	47, 57	time of appearance of	34
taking of	47, 57, 61	Tanner sounding machine	29
Sheephead, taking of	18	Z. L.	1, 68, 102, 103, 104, 106, 113

	Page.		Page.
Tason, A	14	Ventilation of berth deck	92
Tautog, taking of	28	Vertical needle	4, 97
Temperature of sea water.....28, 38, 46, 108, 109, 110		Wainwright, Richard	4, 97
water, effect of	12	Walker's patent log	90
Thalassidroma leachii	61	Ward-room	93
wilsoni	61	Washington Naval Hospital	95
Thermometer, loss of	30	Water, analysis of	9
Thomas Bell, schooner	17	examination of	90
Thompson, Noah	49	specific gravity of	29
Tile-fish grounds, examination of	40	specimens, method of taking	9
Till, G. B	102	preservation of	9
Timbs, N. H.	15	procuring of	28, 29, 30, 38, 48
Tonnage	88	Weakfish, abundance of	22
Trawl, loss of	7, 30	habitat of	34
net, loss of	80	taking of	18, 20, 21, 23, 25, 28
Trawling and sounding, record of speed of	113, 114	Wells, Henry	24
Trigla carolina	74	Whales, appearance of	35, 40
palmipes	74	habitat of	18
punctata	74	Whiting, taking of	41
Triglidae	63, 74	William A. Wells, steamer	27
Turtles, appearance of	58	Wilmington, Del., Albatross built at	1, 88
Tuthill & Co., George E	24, 25	Wise steam motor	93
Tuttle, Capt. A. H.	32	Wise, Thomas	98
T. W. L. Gesser, schooner	36	Wood's Holl, Mass.....29, 34, 40, 42, 44, 60, 89, 95, 96	39, 40
United States Naval Hospital	47	Wreck sighted	102
Urothea	60	Wright, Charles	65, 83
Vail, D. F.	21, 22	Xiphias gladius	65, 83
Value of Block Island fisheries	33	Xiphidae	65, 83
Ventilation	88, 93	Yarrington, Charles	22