INDEX.

NOTE.—This index contains general references to the entire volume; more detailed indexes to nine papers will be found at the pages indicated.

<table>
<thead>
<tr>
<th>Page</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Baird, Spencer F., Sea Fisheries of Eastern North America ................................................. 217
Bettson and Vinciguerra, Fish-Culture in Central Europe .................................................. 559
Collins, J. W., Operations of the schooner Grampus ......................................................... 701
Fowkes, J. Walter, Medusa from the Gulf Stream .................................................................. 535
Jordan and Eigenmann, Review of the Sciaenidae ............................................................... 447
Jordan and Goss, Flounders and Soles of America and Europe ......................................... 337
Linton, Edwin, Entozoa of Marine Fishes of New England ............................................. 511
Tanner, Z. L., Work of the Albatross in 1876 ....................................................................... 687
Marine invertebrates distributed ......................................................................................... 843

A. Page

| Agassiz, Alexander ........................................... 82, 225, 343, 874, 965 |
| Agassiz, Louis .................................................. 957, 961 |
| Albatross, apparatus ........................................ 636, 643 |
| assistance to vessels ...................................... 622 |
| Bank, location of ........................................... 938 |
| birds taken by ................................................ 673 |
| cruise to Bahama ............................................ 605, 621 |
| dredgings by ................................................... 683, 933, 937, 940, 945, 953 |
| electric lighting ............................................. 653 |
| engineer's report .......................................... 644 |
| fish taken by .................................................. 659 |
| medical report .............................................. 656 |
| medusa .......................................................... 513 |
| naturalist's report ......................................... 650 |
| navigator's report ......................................... 644 |
| new boilers for ............................................. 636, 648, 649 |
| personnel ....................................................... 643 |
| report of operations ....................................... 605 |
| soundings ...................................................... 616, 678 |
| temperatures taken by .................................... 1011 |
| Alpena Station, operations at ........................................... 729 |
| American fisheries, review of ......................... 142 |
| statistics of .................................................... 214 |
| Journal of Science cited ..................................... 884 |
| Anadromus fishes, list of ................................... 49 |
| Anrep, V. K. .................................................... 1044 |
| Apeldoorn fish hatchery ..................................... 591 |
| Apparatus for hatching fish .............................. 547, 558 |
| Ashley, jr., Benj ............................................. 16 |
| Atlantic salmon, distribution of ....................... 727, 836 |
| propagation of .............................................. 722 |
| Atkins, Chas. G. ........................................... 747, 751, 753 |
| Atwater, W. O. .............................................. 1020 |
| Atwood, Nathaniel E. ....................................... 16, 119 |
| Azore Islands, examination of ......................... 6 |
| Babson, F. J. .................................................. 16 |
| Bach, steamer, dredgings by ............................. 884, 961 |
| Bahama Islands, cruise to ................................ 605-621 |
| seas, soundings in ......................................... 606 |
| Baird, George W. ........................................... 636, 644 |
| Baird, Spencer F. ........................................... 1, 171, 606, 623, 705 |
| Bait for sea fishes .......................................... 31-34, 126 |
| preservation of ............................................. 133 |
| Baker, J. G. .................................................... 878 |
| Barker, George F., quoted ............................... 153 |
| Bartlett, J. R. ................................................ 965 |
| Battery Station, meteorological observations at .......................................................... 812 |
| operations at ................................................... 761 |
| shad work ..................................................... 762, 807 |
| Bean, Tarleton II ............................................. 343 |
| Beardslee, L. A. ............................................. 884, 892, 901 |
| Benediet, James E. .......................................... 606, 667 |
| Benson, W. S. ................................................ 695 |
| Berenger-Peraud, Mr. ................................. 1037, 1038 |
| Bergne, J. H. G. ............................................. 15 |
| Bernhuchen fish hatchery .................................. 586 |
| Bettoni, Eugenio ............................................. 539, 598 |
| Bibb, steamer, dredgings by ............................ 957, 961 |
| Birds collected by Albatross ............................ 673 |
| collected by Grampus ..................................... 713 |

1065
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black-bass culture in Europe</td>
<td>509</td>
</tr>
<tr>
<td>Blackford, E. G., quoted</td>
<td>135</td>
</tr>
<tr>
<td>Blake, Henry A.</td>
<td>614</td>
</tr>
<tr>
<td>Blake, steamer, dredgings by</td>
<td>957</td>
</tr>
<tr>
<td></td>
<td>963,965</td>
</tr>
<tr>
<td>Bluefish with acanthocephala</td>
<td>496</td>
</tr>
<tr>
<td>Bluefish infested by cestoids</td>
<td>456</td>
</tr>
<tr>
<td>Bluellight, steamer, dredgings by</td>
<td>884,892</td>
</tr>
<tr>
<td>Boeck, A.</td>
<td>24</td>
</tr>
<tr>
<td>Borne, Max von dem</td>
<td>542,543,829,830</td>
</tr>
<tr>
<td>Brook pike for Germany</td>
<td>829</td>
</tr>
<tr>
<td>trout, distribution of</td>
<td>733,734</td>
</tr>
<tr>
<td>eggs taken</td>
<td>732</td>
</tr>
<tr>
<td>Brown trout, distribution of</td>
<td>728,735,831,835,837</td>
</tr>
<tr>
<td>eggs taken</td>
<td>735</td>
</tr>
<tr>
<td>hatching of</td>
<td>798</td>
</tr>
<tr>
<td>from Germany</td>
<td>725,831</td>
</tr>
<tr>
<td>Buck, W. O.</td>
<td>751</td>
</tr>
<tr>
<td>C.</td>
<td></td>
</tr>
<tr>
<td>Caribbean Sea, soundings in</td>
<td>938</td>
</tr>
<tr>
<td>Carp culture in Europe</td>
<td>565</td>
</tr>
<tr>
<td>distribution of</td>
<td>838</td>
</tr>
<tr>
<td>Carpenter, Herbert P.</td>
<td>1000</td>
</tr>
<tr>
<td>Carpenter, P. H.</td>
<td>998</td>
</tr>
<tr>
<td>Carpenter, W. B.</td>
<td>906,908</td>
</tr>
<tr>
<td>Carpenter, W. L.</td>
<td>998</td>
</tr>
<tr>
<td>Carswell, James</td>
<td>704,779</td>
</tr>
<tr>
<td>Caspian Sea fisheries</td>
<td>21</td>
</tr>
<tr>
<td>Catadromous fish</td>
<td>51</td>
</tr>
<tr>
<td>Central Station, shad work at</td>
<td>817</td>
</tr>
<tr>
<td>Challenger, dredgings by</td>
<td>873,973</td>
</tr>
<tr>
<td>Charts of dredgings</td>
<td>874,876,1018</td>
</tr>
<tr>
<td>Chemical analyses of fish</td>
<td>1021</td>
</tr>
<tr>
<td>Chester, H. C.</td>
<td>779</td>
</tr>
<tr>
<td>Chub mackerel, scarcity of</td>
<td>48</td>
</tr>
<tr>
<td>Clark, Frank N.</td>
<td>729</td>
</tr>
<tr>
<td>Clupea sapidissima</td>
<td>725</td>
</tr>
<tr>
<td>Cod-fish, effect of temperature on.</td>
<td></td>
</tr>
<tr>
<td>eggs, taking of</td>
<td>784,787</td>
</tr>
<tr>
<td>transportation of</td>
<td>785</td>
</tr>
<tr>
<td>fisheries of Norway</td>
<td>1055,1059,1060</td>
</tr>
<tr>
<td>hatching apparatus</td>
<td>779,786</td>
</tr>
<tr>
<td>experiments</td>
<td>780,781</td>
</tr>
<tr>
<td>record of</td>
<td>782</td>
</tr>
<tr>
<td>planting of</td>
<td>789</td>
</tr>
<tr>
<td>poisoning by</td>
<td>1027,1028</td>
</tr>
<tr>
<td>poisoning, preventive</td>
<td>1053</td>
</tr>
<tr>
<td>poisonous</td>
<td>1033,1042</td>
</tr>
<tr>
<td>propagation</td>
<td>993,721,779,783</td>
</tr>
<tr>
<td>Cod-fish, rearing of statistics</td>
<td>785</td>
</tr>
<tr>
<td>statistics</td>
<td>22</td>
</tr>
<tr>
<td>stomach, specimens from</td>
<td>36</td>
</tr>
<tr>
<td>taking of</td>
<td>783</td>
</tr>
<tr>
<td>value of, to France</td>
<td>1051</td>
</tr>
<tr>
<td>Cold Spring Harbor hatcheg-house operations at.</td>
<td>726</td>
</tr>
<tr>
<td>shipment of eggs from</td>
<td>829</td>
</tr>
<tr>
<td>Collett, Robert, quoted</td>
<td>24,113</td>
</tr>
<tr>
<td>Collins, D. E.</td>
<td>714</td>
</tr>
<tr>
<td>Collins, J. W.</td>
<td>79,112,125,701</td>
</tr>
<tr>
<td>Columbia River, shad planted in.</td>
<td>805</td>
</tr>
<tr>
<td>Corwin, steamer, dredgings by</td>
<td>957</td>
</tr>
<tr>
<td>Coregonus clupeiformis</td>
<td>721</td>
</tr>
<tr>
<td>Cosumndorf fish-hatchery</td>
<td>583</td>
</tr>
<tr>
<td>Coste, P.</td>
<td>574</td>
</tr>
<tr>
<td>Crossobothrium described</td>
<td>469</td>
</tr>
<tr>
<td>Crowell, Prince</td>
<td>16</td>
</tr>
<tr>
<td>Cutts, Richard D., quoted</td>
<td>20</td>
</tr>
<tr>
<td>Cyprinus culture in Central Europe</td>
<td>565</td>
</tr>
<tr>
<td>D.</td>
<td></td>
</tr>
<tr>
<td>Dachsen fish-hatchery</td>
<td>588</td>
</tr>
<tr>
<td>Dana, jr., Richard H</td>
<td>15</td>
</tr>
<tr>
<td>Daniellsen, D. C.</td>
<td>987</td>
</tr>
<tr>
<td>Danish Artic expedition</td>
<td>992</td>
</tr>
<tr>
<td>De Filippi, Professor</td>
<td>596</td>
</tr>
<tr>
<td>Delaware River shad-works</td>
<td>819</td>
</tr>
<tr>
<td>Delfoso, Maurice</td>
<td>15</td>
</tr>
<tr>
<td>d'Halloy, Leon</td>
<td>829</td>
</tr>
<tr>
<td>Dibothrium alutern n. sp.</td>
<td>458</td>
</tr>
<tr>
<td>manubriforme n. sp.</td>
<td>456</td>
</tr>
<tr>
<td>Diesing, Mr.</td>
<td>460</td>
</tr>
<tr>
<td>Dijumpha, steamer, dredgings by</td>
<td>992</td>
</tr>
<tr>
<td>Distribution, report on</td>
<td>833</td>
</tr>
<tr>
<td>Dog-fish infested by cestoids</td>
<td>477</td>
</tr>
<tr>
<td>Doutre, Joseph</td>
<td>15</td>
</tr>
<tr>
<td>Dredgings on New England coast by Coast Survey</td>
<td>884</td>
</tr>
<tr>
<td>in Atlantic Ocean</td>
<td>958</td>
</tr>
<tr>
<td>Bay of Biscay</td>
<td>977</td>
</tr>
<tr>
<td>Bay of Fundy</td>
<td>883</td>
</tr>
<tr>
<td>Block Island Sound</td>
<td>892</td>
</tr>
<tr>
<td>Buzzard's Bay</td>
<td>894,915</td>
</tr>
<tr>
<td>Casco Bay, Me.</td>
<td>884</td>
</tr>
<tr>
<td>Eastport Harbor, Me.</td>
<td>883</td>
</tr>
<tr>
<td>Fårös Channel</td>
<td>1001</td>
</tr>
<tr>
<td>Fisher's Island Sound</td>
<td>892</td>
</tr>
<tr>
<td>Gardner's Bay</td>
<td>892</td>
</tr>
<tr>
<td>Gulf of Maine</td>
<td>901</td>
</tr>
<tr>
<td>Kara Sea</td>
<td>992</td>
</tr>
<tr>
<td>Long Island Sound</td>
<td>892</td>
</tr>
<tr>
<td>Massachusetts Bay</td>
<td>901</td>
</tr>
<tr>
<td>Page</td>
<td>Index</td>
</tr>
<tr>
<td>------</td>
<td>-------</td>
</tr>
<tr>
<td>978, 986, 998</td>
<td>Dredgings in Mediterranean Sea</td>
</tr>
<tr>
<td>883</td>
<td>Narragansett Bay</td>
</tr>
<tr>
<td>915</td>
<td>Peconic Bay</td>
</tr>
<tr>
<td>883</td>
<td>South Bay, Me.</td>
</tr>
<tr>
<td>878, 892, 915</td>
<td>Vineyard Sound</td>
</tr>
<tr>
<td>883</td>
<td>near Block Island</td>
</tr>
<tr>
<td>883</td>
<td>Campobello Island</td>
</tr>
<tr>
<td>915</td>
<td>Grand Manan</td>
</tr>
<tr>
<td>992</td>
<td>Gulf Stream</td>
</tr>
<tr>
<td>901</td>
<td>Nova Zembla</td>
</tr>
<tr>
<td>892</td>
<td>off Nova Scotia</td>
</tr>
<tr>
<td>873, 879, 1092</td>
<td>on Southwest Shoal</td>
</tr>
<tr>
<td>476, 486</td>
<td>Dusky shark infested by cestoids</td>
</tr>
<tr>
<td>493</td>
<td>Echinarhynchus sagittifer n. sp.</td>
</tr>
<tr>
<td>16</td>
<td>Edwards, Vinal N.</td>
</tr>
<tr>
<td>569</td>
<td>Eel culture in Central Europe</td>
</tr>
<tr>
<td>430</td>
<td>infested by acanthocephala</td>
</tr>
<tr>
<td>343</td>
<td>Eigemann, Carl H.</td>
</tr>
<tr>
<td>453</td>
<td>Entozoa of marine fishes</td>
</tr>
<tr>
<td>1035</td>
<td>Farlow, W. G.</td>
</tr>
<tr>
<td>513</td>
<td>Fowkes, J. Walter</td>
</tr>
<tr>
<td>1023</td>
<td>Fish as a food supply</td>
</tr>
<tr>
<td>539, 571, 574, 579</td>
<td>Fish-culture in Central Europe</td>
</tr>
<tr>
<td>592</td>
<td>methods of</td>
</tr>
<tr>
<td>830</td>
<td>Fish-eggs from abroad</td>
</tr>
<tr>
<td>829</td>
<td>sent abroad</td>
</tr>
<tr>
<td>595</td>
<td>transportation of</td>
</tr>
<tr>
<td>20</td>
<td>Fisheries, production of</td>
</tr>
<tr>
<td>1024</td>
<td>Fish-food, economy of</td>
</tr>
<tr>
<td>829</td>
<td>Fish, foreign shipments of</td>
</tr>
<tr>
<td>581-591</td>
<td>Fish-hatcheries, location of</td>
</tr>
<tr>
<td>693</td>
<td>Fish-Hawk cod work</td>
</tr>
<tr>
<td>915</td>
<td>dredgings by</td>
</tr>
<tr>
<td>603</td>
<td>in collision</td>
</tr>
<tr>
<td>696, 700</td>
<td>repairs</td>
</tr>
<tr>
<td>603</td>
<td>report of operations</td>
</tr>
<tr>
<td>693, 819, 821</td>
<td>shad work</td>
</tr>
<tr>
<td>633</td>
<td>Fish, kinds distributed</td>
</tr>
<tr>
<td>55</td>
<td>Fish migrations, cause of</td>
</tr>
<tr>
<td>138</td>
<td>offal, disposition of</td>
</tr>
<tr>
<td>134</td>
<td>Fish, preservation of</td>
</tr>
<tr>
<td>1019</td>
<td>Fish products, composition of</td>
</tr>
<tr>
<td>1020</td>
<td>investigation of</td>
</tr>
<tr>
<td>1019</td>
<td>Fish products, nutritive value of</td>
</tr>
<tr>
<td>669</td>
<td>Fish, taken by Albatross</td>
</tr>
<tr>
<td>23</td>
<td>transportation, methods of</td>
</tr>
<tr>
<td>108-125</td>
<td>Fishing apparatus</td>
</tr>
<tr>
<td>85-102</td>
<td>Fishing-grounds, description of</td>
</tr>
<tr>
<td>103-108</td>
<td>Fishing-vessels, description of</td>
</tr>
<tr>
<td>458</td>
<td>File-fish infested by cestoids</td>
</tr>
<tr>
<td>493</td>
<td>Flat-fish, with acanthocephala</td>
</tr>
<tr>
<td>626, 627</td>
<td>Flemish Cap, examination of</td>
</tr>
<tr>
<td>656</td>
<td>Flint, J. M.</td>
</tr>
<tr>
<td>496</td>
<td>Flounder, with acanthocephala</td>
</tr>
<tr>
<td>225</td>
<td>Flounders of America and Europe</td>
</tr>
</tbody>
</table>
| 63, 64 | Food-fishes, danger from preda-
<p>| 160-164 | increased by artificial |
| 25 | list of |
| 69 | Forbes, Henry O. |
| 738 | Forbes, S. A. |
| 15 | Ford, F. C. |
| 820 | Foreign shipments of fish eggs |
| 610 | Forsyth, James M. |
| 15 | Foster, Dwight |
| 815 | Fort Washington, shad work at |
| 829 | France, fish for |
| 987 | Friele, Herman |
| 721 | Gadus morhua |
| 15 | Galt, Alexander T. |
| 992 | Gamél Brothers |
| 225, 343 | Garman, Samuel |
| 622 | Gato City, steamer, assistance to |
| 1043 | Gauntner, A. |
| 590 | Geneva fish hatchery |
| 938 | Georgia Bank, location of |
| 938 | brig |
| 829 | Germany, fish for |
| 830 | fish from |
| 581-688 | location of hatcheries |
| 896 | Giglioli, Enrico Hillyer |
| 225, 343 | Gilbert, Chas. H. |
| 889 | Goldfish, distribution of |
| 16, 456 | Goode, G. Brown |
| 225 | Goss, David K. |
| 762, 807 | Grabill, L. R. |
| 714 | Grampus anchor fouled |
| 716 | cod work of |
| 701 | cruise to tilefish grounds |
| 717 | dredgings and trawlings |
| 701 | first cruise of |
| 707 | halibut work of |
| 701 | personnel |
| 703 | repairs |</p>
<table>
<thead>
<tr>
<th>Index</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grampus report of operations</td>
<td>701</td>
</tr>
<tr>
<td>sailing qualities of</td>
<td>713</td>
</tr>
<tr>
<td>Grand Lake Stream, operations at</td>
<td>751</td>
</tr>
<tr>
<td>Grimm, O. A</td>
<td>1023</td>
</tr>
<tr>
<td>Gurry, disposition of</td>
<td>138</td>
</tr>
<tr>
<td>H</td>
<td>542, 574, 579</td>
</tr>
<tr>
<td>Haack, Hermann, referred to</td>
<td>38</td>
</tr>
<tr>
<td>Haddock stomach, specimens from</td>
<td>699</td>
</tr>
<tr>
<td>Haleyon, report of</td>
<td>700</td>
</tr>
<tr>
<td>Halibut difficult to keep alive</td>
<td>700</td>
</tr>
<tr>
<td>Hamlen, William</td>
<td>700</td>
</tr>
<tr>
<td>Hassler, steamer, dredgings by</td>
<td>957</td>
</tr>
<tr>
<td>Hatcheries of Europe, products of</td>
<td>572</td>
</tr>
<tr>
<td>Herring fisheries of Norway</td>
<td>1056, 1059, 1062, 1063</td>
</tr>
<tr>
<td>occurrence of</td>
<td>809</td>
</tr>
<tr>
<td>price of</td>
<td>50</td>
</tr>
<tr>
<td>statistics</td>
<td>22</td>
</tr>
<tr>
<td>Hibernation of fishes</td>
<td>54</td>
</tr>
<tr>
<td>Hodgdon, Captain</td>
<td>883</td>
</tr>
<tr>
<td>Hogg, W. S</td>
<td>605</td>
</tr>
<tr>
<td>Holdsworth, Mr., quoted</td>
<td>112, 113</td>
</tr>
<tr>
<td>Holm, Th</td>
<td>992</td>
</tr>
<tr>
<td>Holt, John S</td>
<td>938</td>
</tr>
<tr>
<td>Homarus americanus</td>
<td>726</td>
</tr>
<tr>
<td>Hope Bank, examination of</td>
<td>625, 629, 630</td>
</tr>
<tr>
<td>Hovgaard, Lieutenant</td>
<td>992</td>
</tr>
<tr>
<td>Howell, I. A</td>
<td>961</td>
</tr>
<tr>
<td>Hünigsen fish hatchery</td>
<td>574, 578, 579</td>
</tr>
<tr>
<td>Hurlbut, Robert H</td>
<td>16</td>
</tr>
<tr>
<td>Huxley, Thomas H, referred to</td>
<td>83</td>
</tr>
<tr>
<td>I</td>
<td>225, 343</td>
</tr>
<tr>
<td>Indiana University</td>
<td>52</td>
</tr>
<tr>
<td>Inshore fishes, list of</td>
<td>845</td>
</tr>
<tr>
<td>Institutions receiving invertebrates</td>
<td>845</td>
</tr>
<tr>
<td>Invertebrates, distribution of</td>
<td>32</td>
</tr>
<tr>
<td>used for bait</td>
<td>22</td>
</tr>
<tr>
<td>J</td>
<td>574</td>
</tr>
<tr>
<td>Jacobi, Hanoverian</td>
<td>539, 1027, 1055</td>
</tr>
<tr>
<td>Jacobson, H., translator</td>
<td>998, 1000, 1001</td>
</tr>
<tr>
<td>Jefferies, J. Gwyn</td>
<td>1055</td>
</tr>
<tr>
<td>Jerrel, H. P</td>
<td>961</td>
</tr>
<tr>
<td>Jordan, David S</td>
<td>225, 343</td>
</tr>
<tr>
<td>Josephine, frigate, dredgings by</td>
<td>1009</td>
</tr>
<tr>
<td>Josie Reeves, schooner, dredgings</td>
<td>916</td>
</tr>
<tr>
<td>K</td>
<td>901</td>
</tr>
<tr>
<td>Kellogg, A. G</td>
<td>915</td>
</tr>
<tr>
<td>Kellogg, E. H</td>
<td>1055</td>
</tr>
<tr>
<td>Key West, Fla, fire at</td>
<td>1001</td>
</tr>
<tr>
<td>Kier, A. N</td>
<td>1019</td>
</tr>
<tr>
<td>Knight Errant, steamer, dredgings</td>
<td>1019</td>
</tr>
<tr>
<td>L</td>
<td>727, 735</td>
</tr>
<tr>
<td>Lake trout, distribution of</td>
<td>1009, 1014</td>
</tr>
<tr>
<td>Land-locked salmon, issue of</td>
<td>727, 836</td>
</tr>
<tr>
<td>for France</td>
<td>727, 836</td>
</tr>
<tr>
<td>for Shenandoah River</td>
<td>798</td>
</tr>
<tr>
<td>propagation of</td>
<td>724</td>
</tr>
<tr>
<td>Laura Sayward, schooner</td>
<td>711</td>
</tr>
<tr>
<td>Leo, Thomas</td>
<td>606, 659, 714</td>
</tr>
<tr>
<td>Linsley, J. H</td>
<td>38</td>
</tr>
<tr>
<td>Lightning, steamer, dredgings by</td>
<td>990</td>
</tr>
<tr>
<td>Lindahl, Josua</td>
<td>998</td>
</tr>
<tr>
<td>Linton, Edwin</td>
<td>453</td>
</tr>
<tr>
<td>Linton, Margaret B</td>
<td>458</td>
</tr>
<tr>
<td>Ljungman, A. V</td>
<td>1002</td>
</tr>
<tr>
<td>Lobsters, distribution of</td>
<td>728</td>
</tr>
<tr>
<td>fisheries of Norway</td>
<td>1057, 1064</td>
</tr>
<tr>
<td>propagation of</td>
<td>726</td>
</tr>
<tr>
<td>Loch Leven front from Scotland</td>
<td>830</td>
</tr>
<tr>
<td>Lockroy, Mr</td>
<td>1027</td>
</tr>
<tr>
<td>Lookout shad work</td>
<td>895</td>
</tr>
<tr>
<td>Lübbenchen fish hatchery</td>
<td>585</td>
</tr>
<tr>
<td>Luil, E. P, referred to</td>
<td>155</td>
</tr>
<tr>
<td>Lyman, Theodore</td>
<td>16</td>
</tr>
<tr>
<td>M</td>
<td>707</td>
</tr>
<tr>
<td>M. A. Baston, schooner, assistance to</td>
<td>737</td>
</tr>
<tr>
<td>McCloud River Station, report</td>
<td>743</td>
</tr>
<tr>
<td>weather report</td>
<td>743</td>
</tr>
<tr>
<td>McDonald, Marshall</td>
<td>793, 801, 815, 833</td>
</tr>
<tr>
<td>McKenzie, George, referred to</td>
<td>168</td>
</tr>
<tr>
<td>Mackeral fisheries of Norway</td>
<td>1057, 1062</td>
</tr>
<tr>
<td>statistics of</td>
<td>22</td>
</tr>
<tr>
<td>Magnaghi, G. B</td>
<td>986</td>
</tr>
<tr>
<td>Maitland, Sir James G</td>
<td>830</td>
</tr>
<tr>
<td>Marguerite, schooner, log quoted</td>
<td>630, 631</td>
</tr>
<tr>
<td>Marine invertebrates, distributed</td>
<td>843</td>
</tr>
<tr>
<td>of the Atlantic coast</td>
<td>850</td>
</tr>
<tr>
<td>Mather, Fred</td>
<td>889</td>
</tr>
<tr>
<td>Mauriac, E</td>
<td>1037</td>
</tr>
<tr>
<td>Medusae collected by Albatross</td>
<td>513</td>
</tr>
<tr>
<td>Michaelstein fish hatchery</td>
<td>587</td>
</tr>
<tr>
<td>Michigan stations, report on</td>
<td>729</td>
</tr>
<tr>
<td>Microgadus tomcodus</td>
<td>725</td>
</tr>
<tr>
<td>Milne-Edwards, Alphonse</td>
<td>976, 979</td>
</tr>
<tr>
<td>Mohr, H</td>
<td>987</td>
</tr>
<tr>
<td>Page</td>
<td>Page</td>
</tr>
<tr>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td>Mosswood, steamer, dredgings by</td>
<td>883</td>
</tr>
<tr>
<td>Mullet fisheries</td>
<td>14</td>
</tr>
<tr>
<td>Munson, William II</td>
<td>751</td>
</tr>
<tr>
<td>Murray, John</td>
<td>1001</td>
</tr>
<tr>
<td>Museum of Comparative Zoology</td>
<td>225, 343</td>
</tr>
<tr>
<td>N.</td>
<td></td>
</tr>
<tr>
<td>Nairn, Maxwell</td>
<td>608</td>
</tr>
<tr>
<td>Nares, George S</td>
<td>973</td>
</tr>
<tr>
<td>National Museum</td>
<td>225, 343</td>
</tr>
<tr>
<td>Natural history of sea fishes</td>
<td>24</td>
</tr>
<tr>
<td>Navy Department, soundings</td>
<td>607, 624</td>
</tr>
<tr>
<td>Netherlands, fish hatcheries in</td>
<td>591</td>
</tr>
<tr>
<td>Nettor, Mr</td>
<td>1044</td>
</tr>
<tr>
<td>Neuhausen fish hatchery</td>
<td>588</td>
</tr>
<tr>
<td>Newcomb, R. L.</td>
<td>704</td>
</tr>
<tr>
<td>New Providence, natural history of</td>
<td>662</td>
</tr>
<tr>
<td>Nietzsche, Prof</td>
<td>574</td>
</tr>
<tr>
<td>Nordenskiöld, A. E.</td>
<td>988</td>
</tr>
<tr>
<td>Northville Station, operations at</td>
<td>720</td>
</tr>
<tr>
<td>Norwegian fisheries, notes on</td>
<td>1035</td>
</tr>
<tr>
<td>production of</td>
<td>20</td>
</tr>
<tr>
<td>North Atlantic trip</td>
<td>957</td>
</tr>
<tr>
<td>Nutt, N. B.</td>
<td>131</td>
</tr>
<tr>
<td>Nye, jr., Willard</td>
<td>606</td>
</tr>
<tr>
<td>O.</td>
<td></td>
</tr>
<tr>
<td>Orygmatothorium angustum n. sp.</td>
<td>468</td>
</tr>
<tr>
<td>Osmerus mordax</td>
<td>725</td>
</tr>
<tr>
<td>Oyster culture at Saint Jerome</td>
<td>765, 766, 767</td>
</tr>
<tr>
<td>fisheries of Norway</td>
<td>1052, 1064</td>
</tr>
<tr>
<td>P.</td>
<td></td>
</tr>
<tr>
<td>Palmer, Dr. E</td>
<td>35</td>
</tr>
<tr>
<td>Panther, steamer, assistance to</td>
<td>622</td>
</tr>
<tr>
<td>Patterson, C. P., quoted</td>
<td>154</td>
</tr>
<tr>
<td>Pavesi, P</td>
<td>543, 596</td>
</tr>
<tr>
<td>Pelagic fishes, list of</td>
<td>53</td>
</tr>
<tr>
<td>Penobscot salmon, distribution of</td>
<td>748</td>
</tr>
<tr>
<td>eggs, taking of</td>
<td>747</td>
</tr>
<tr>
<td>mortality of</td>
<td>747</td>
</tr>
<tr>
<td>Station, report</td>
<td>747</td>
</tr>
<tr>
<td>Phoreiobothrium described</td>
<td>474</td>
</tr>
<tr>
<td>Phyllobothrium thysanocephalum described</td>
<td>464</td>
</tr>
<tr>
<td>Pike culture in Central Europe</td>
<td>569</td>
</tr>
<tr>
<td>Plates, list of</td>
<td>336, 446, 500, 800, 876</td>
</tr>
<tr>
<td>Platt, Robert</td>
<td>957, 961</td>
</tr>
<tr>
<td>Pleurophysa described</td>
<td>517</td>
</tr>
<tr>
<td>Popof, Dr., analysis of fish by</td>
<td>1020</td>
</tr>
<tr>
<td>Porcupine, steamer, dredgings by</td>
<td>996, 998</td>
</tr>
<tr>
<td>Potomac River fisheries</td>
<td>50, 51, 167</td>
</tr>
<tr>
<td>shad work</td>
<td>815</td>
</tr>
<tr>
<td>Scudder, N. P., quoted</td>
<td>Page.</td>
</tr>
<tr>
<td>------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Sea-fisheries:</td>
<td></td>
</tr>
<tr>
<td>dangers to</td>
<td>62</td>
</tr>
<tr>
<td>general consideration of</td>
<td>17</td>
</tr>
<tr>
<td>importance of</td>
<td>17</td>
</tr>
<tr>
<td>improvement of</td>
<td>151</td>
</tr>
<tr>
<td>legislation</td>
<td>151-160</td>
</tr>
<tr>
<td>maintenance of</td>
<td>151</td>
</tr>
<tr>
<td>of Eastern North America</td>
<td>3,13</td>
</tr>
<tr>
<td>products, use of</td>
<td>143</td>
</tr>
<tr>
<td>statistics of</td>
<td>215</td>
</tr>
<tr>
<td>Sea-fishes:</td>
<td></td>
</tr>
<tr>
<td>abundance of</td>
<td>21,61</td>
</tr>
<tr>
<td>biological notes on</td>
<td>45</td>
</tr>
<tr>
<td>bait for</td>
<td>31,126-132</td>
</tr>
<tr>
<td>capture of</td>
<td>85</td>
</tr>
<tr>
<td>causes of destruction</td>
<td>68-72</td>
</tr>
<tr>
<td>destroyed by mammals</td>
<td>63</td>
</tr>
<tr>
<td>enemies of</td>
<td>58,63,77</td>
</tr>
<tr>
<td>food of</td>
<td>34,72</td>
</tr>
<tr>
<td>habitat of</td>
<td>46</td>
</tr>
<tr>
<td>increased by artificial means</td>
<td>160-164</td>
</tr>
<tr>
<td>influenced by man</td>
<td>59,66,77</td>
</tr>
<tr>
<td>inshore, list of</td>
<td>52</td>
</tr>
<tr>
<td>list of</td>
<td>25-31</td>
</tr>
<tr>
<td>methods of capture</td>
<td>108-125</td>
</tr>
<tr>
<td>migration of</td>
<td>47,57</td>
</tr>
<tr>
<td>natural history of</td>
<td>24</td>
</tr>
<tr>
<td>number of eggs laid by</td>
<td>82</td>
</tr>
<tr>
<td>reproduction of</td>
<td>80</td>
</tr>
<tr>
<td>spawning of</td>
<td>83</td>
</tr>
<tr>
<td>stomachs, specimens from</td>
<td>38-44</td>
</tr>
<tr>
<td>supply of</td>
<td>165-167</td>
</tr>
<tr>
<td>Seal fisheries of Norway</td>
<td>1059</td>
</tr>
<tr>
<td>Sea trout fisheries of Norway</td>
<td>1057,1063</td>
</tr>
<tr>
<td>Seowiese fish hatchery</td>
<td>582</td>
</tr>
<tr>
<td>Solini, Professor</td>
<td>1042</td>
</tr>
<tr>
<td>Solzenhof fish hatchery</td>
<td>581</td>
</tr>
<tr>
<td>Shad, distribution of</td>
<td>728,801,814,837</td>
</tr>
<tr>
<td>for Europe</td>
<td>805</td>
</tr>
<tr>
<td>hatching on car</td>
<td>806,841</td>
</tr>
<tr>
<td>penning of</td>
<td>809</td>
</tr>
<tr>
<td>planting of</td>
<td>801,802,819</td>
</tr>
<tr>
<td>price of</td>
<td>50</td>
</tr>
<tr>
<td>propagation of</td>
<td>725, 762, 807, 815, 819, 825</td>
</tr>
<tr>
<td>Shark fisheries in Finmark</td>
<td>1058</td>
</tr>
<tr>
<td>Shearwater, steamer, dredgings by</td>
<td>1000</td>
</tr>
<tr>
<td>Shenandoah River, salmon planted</td>
<td>798</td>
</tr>
<tr>
<td>Sigsbee, C. D.</td>
<td>963</td>
</tr>
<tr>
<td>Skate infested by cestoids</td>
<td>462</td>
</tr>
<tr>
<td>Smelts, distribution of</td>
<td>728</td>
</tr>
<tr>
<td>propagation of</td>
<td>725</td>
</tr>
<tr>
<td>Smith, James A</td>
<td>603,700,819,825</td>
</tr>
<tr>
<td>Smith, Sanderson</td>
<td>873,877</td>
</tr>
<tr>
<td>Smith, S. I.</td>
<td>845</td>
</tr>
<tr>
<td>Solas of America and Europe</td>
<td>225</td>
</tr>
<tr>
<td>Solsky, N. M.</td>
<td>1029</td>
</tr>
<tr>
<td>Soundings by Albatross</td>
<td>607-609,613,615,678,1016</td>
</tr>
<tr>
<td>Spear-fish infected by cestoids</td>
<td>458</td>
</tr>
<tr>
<td>Speedwell, steamer, dredgings by</td>
<td>901</td>
</tr>
<tr>
<td>temperatures</td>
<td></td>
</tr>
<tr>
<td>taken by</td>
<td>1005</td>
</tr>
<tr>
<td>Sponge fishery, account of</td>
<td>663</td>
</tr>
<tr>
<td>Spougiobothrium described</td>
<td>462</td>
</tr>
<tr>
<td>Squeteague infested by—</td>
<td></td>
</tr>
<tr>
<td>acanthocephala</td>
<td>496</td>
</tr>
<tr>
<td>cestoids</td>
<td>456</td>
</tr>
<tr>
<td>Squid, capture of</td>
<td>706</td>
</tr>
<tr>
<td>Statious, fish distributed from</td>
<td>834</td>
</tr>
<tr>
<td>Steindachner, Dr. F.</td>
<td>225</td>
</tr>
<tr>
<td>Stimpson, William</td>
<td>874,961</td>
</tr>
<tr>
<td>Sting ray infested by cestoids</td>
<td>464</td>
</tr>
<tr>
<td>Stone, Livingston</td>
<td>737</td>
</tr>
<tr>
<td>Striped bass infested by—</td>
<td></td>
</tr>
<tr>
<td>acanthocephala</td>
<td>497</td>
</tr>
<tr>
<td>cestoids</td>
<td>456</td>
</tr>
<tr>
<td>Sun-fish for Germany</td>
<td>829</td>
</tr>
<tr>
<td>Swedish Arctic expedititions</td>
<td>988</td>
</tr>
<tr>
<td>Switzerland, fish hatcheries in</td>
<td>588</td>
</tr>
<tr>
<td>T.</td>
<td></td>
</tr>
<tr>
<td>Tania dilatata described</td>
<td>488</td>
</tr>
<tr>
<td>Talisman, steamer, dredgings by</td>
<td>90</td>
</tr>
<tr>
<td>Tanner, Z. L.</td>
<td>72,605,901,915</td>
</tr>
<tr>
<td>Temperature, effect of, on fish</td>
<td>55</td>
</tr>
<tr>
<td>record of</td>
<td>658, 741,749,755,768,790,1005</td>
</tr>
<tr>
<td>Tharand fish hatchery</td>
<td>584</td>
</tr>
<tr>
<td>Théél, De Hjalmar</td>
<td>988</td>
</tr>
<tr>
<td>Thermometers used in dredging</td>
<td>892, 901,916</td>
</tr>
<tr>
<td>Thomson, S. R.</td>
<td>15</td>
</tr>
<tr>
<td>Thompson, Wyville</td>
<td>973,996</td>
</tr>
<tr>
<td>Tiger shark, infested by cestoids</td>
<td>468</td>
</tr>
<tr>
<td>Townsend, Chas. H.</td>
<td>606</td>
</tr>
<tr>
<td>Tomcod, propagation of</td>
<td>725</td>
</tr>
<tr>
<td>Travailleur, steamer, dredgings</td>
<td>976,979</td>
</tr>
<tr>
<td>Trawlings, record of</td>
<td>1016</td>
</tr>
<tr>
<td>Trescott, William H.</td>
<td>15</td>
</tr>
<tr>
<td>Triton, steamer, dredgings by</td>
<td>1001</td>
</tr>
<tr>
<td>Trout culture</td>
<td>539</td>
</tr>
<tr>
<td>method of planting</td>
<td>800</td>
</tr>
<tr>
<td>raising, lectures on</td>
<td>575</td>
</tr>
<tr>
<td>Trumbull, J. H.</td>
<td>36,38</td>
</tr>
</tbody>
</table>
### INDEX

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
</tr>
<tr>
<td>460</td>
</tr>
<tr>
<td>988</td>
</tr>
<tr>
<td>591</td>
</tr>
<tr>
<td>35, 845, 878</td>
</tr>
<tr>
<td>539, 579, 598</td>
</tr>
<tr>
<td>455</td>
</tr>
<tr>
<td>987</td>
</tr>
<tr>
<td>607</td>
</tr>
<tr>
<td>605</td>
</tr>
<tr>
<td>986</td>
</tr>
<tr>
<td>15</td>
</tr>
<tr>
<td>445</td>
</tr>
<tr>
<td>543-545</td>
</tr>
<tr>
<td>540-541</td>
</tr>
<tr>
<td>56</td>
</tr>
<tr>
<td>659</td>
</tr>
<tr>
<td>1059</td>
</tr>
<tr>
<td>727, 731, 835</td>
</tr>
<tr>
<td>730</td>
</tr>
<tr>
<td>730</td>
</tr>
<tr>
<td>60</td>
</tr>
<tr>
<td>829</td>
</tr>
<tr>
<td>15</td>
</tr>
<tr>
<td>584</td>
</tr>
<tr>
<td>779, 783</td>
</tr>
<tr>
<td>796</td>
</tr>
<tr>
<td>796</td>
</tr>
<tr>
<td>794</td>
</tr>
<tr>
<td>793, 798</td>
</tr>
<tr>
<td>793</td>
</tr>
<tr>
<td>793</td>
</tr>
<tr>
<td>793</td>
</tr>
<tr>
<td>793</td>
</tr>
<tr>
<td>793</td>
</tr>
</tbody>
</table>

### W.

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walker, J. G.</td>
</tr>
<tr>
<td>Waring, H. S.</td>
</tr>
<tr>
<td>Washington, steamer, dredgings by treaty of</td>
</tr>
<tr>
<td>Water, aeration of filtration of supply for hatcheries temperature, table of</td>
</tr>
<tr>
<td>Watling's Island, natural history of</td>
</tr>
<tr>
<td>Whale fisheries in Finnmark</td>
</tr>
<tr>
<td>Whitefish, distribution of eggs, taken</td>
</tr>
<tr>
<td>Whitefish, propagation of</td>
</tr>
<tr>
<td>Whitcher, W. F.</td>
</tr>
<tr>
<td>White perch for Germany</td>
</tr>
<tr>
<td>Whitway, W. V.</td>
</tr>
<tr>
<td>Witham fish hatchery</td>
</tr>
<tr>
<td>Wood's Holl, cod-fish propagation at</td>
</tr>
<tr>
<td>Wytheville station fish distributed from</td>
</tr>
<tr>
<td>fish received at</td>
</tr>
<tr>
<td>hatchery</td>
</tr>
<tr>
<td>improvements at</td>
</tr>
<tr>
<td>location of ponds at</td>
</tr>
<tr>
<td>report on water supply</td>
</tr>
</tbody>
</table>

### Y.

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ymer, steamer, dredgings by</td>
</tr>
</tbody>
</table>

### Z.

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zurich fish hatchery</td>
</tr>
</tbody>
</table>