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VOL. XXIX

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SAINT ANDREWS, NEW BRUNS VICK, SATURDAY, JUNE 15, 1918

NO. 50

N a hill eighty-seven feet high, once and curious forms were obtained in that covered that a barren zone existed off the called Breed's Hill, but now known deep channel, which deserves to be more Cape Breton shore, comprising the part of as Bunker Hill, on the peninsula of Charlestown, north of Boston, Massachusetts, rises a granite obelisk 220 feet in height, built to commemorate the first important battle in the American War of

Three distinguished generals, Howe. Clinton, and Burgoyne, with 12,000 veteran British troops, and a formidable fleet, occupied Boston. They were besieged by an undisciplined crowd of colonists, without arms, ammunition, supplies, or organization. On the morning of the 17th of June 1775, the British officers in Boston. and on the ships in the harbor, saw to their astonishment a breastwork on in the night, and was every moment growing stronger, so as to threaten their position in a serious manner. This was the work of about fifteen hundred Yankees, under Colonel Prescott.

of Armstrong artillery. General Howe

from their works at the point of the baythey fell sullenly back, fighting with the butts of their muskets. The British loss was about 1000 killed and wounded, out of a force of 3000; that of the Americans, 400 or 500. It was a British victory

FISHERIES RESEARCH IN THE GILF OF ST. LAWRENCE IN 1917

of their War of Independence.—Chambers'

Book of Days.

By A. G. HUNTSMAN. Biologist to the Biological Board of

I planned to investigate the region at the northern end of Cape Breton Island, where the waters of the Gulf of St. Law rence flow out into the Atlantic on the south side of Cabot Strait. In the middle of May the motor-boat "Prince," named after Professor E. E. Prince, Commission er of Fisheries for the Dominion, and Chairman of the Biological Board of Canada, was taken from the Atlantic Biological Station at St. Anna.
wick, in the Bay of Fundy, around Nova Calder and Captain Elmer Rigby were in charge of the boat, and carried out the various fishing operations and experi-ments most efficiently. Eastern Harbor on the western side of Cape Breton Island served as our headquarters for the summer, and proved to be most suitable as a base from which to study the neighbouring waters. We were much indebted to Mr. Clifford Le Couteur, the capable local nanager for the firm of Robin, Jones & Whitman for many courtesies extended to us during the course of the summe

ened to be vacant, was placed at our di posal and proved to be an excellent laboratory for the carrying on of the micros copic and other detailed examinations of the material that was collected. Each month from May to September the con-dition of the Waters between our base and the Magdalen Islands was determined by dition of the waters between our base and the Magdalen Islands was determined by making observations at a series of selected stations, additional trips being made up and down the coast of Cape Breton to examine other localities. In particular an examination was made of Aspy Bay just east of Cape North and of the water at ast of Cape North and of the water at different depths out into Cabot Strait, where we were successful in operating through the net. Fish also were taken, (Continued on page 8)

THE BATTLE OF BUNKER HILL both our net trawl and fish fry trawl at a cunners being captured in it regular

thoroughly investigated. must be used to discover what kinds of perature at the bottom underwent violent animals there are in the water, where they remain, and how they live. First or so, at one time being as high as 65° F. Mell volunteered to go over on and foremost come the usual fishing implements:-The drag seine, which is a net that is run out into the water in the form of a semi-circle with the open side towards the shore and is then hauled up on the beach by means of a line at each on the shore fishes such as trout, young salmon, alewives, small herring, capelin, cunners, white perch, sculpins, tomcod, young hake, flounders, dabs window-panes, smelt, mummichogs, Bunker Hill, which had been thrown up sticklebacks, pipe fish, sand launce, and butterfish, anchor and buoy at each end. and left a variable length of time before hauling. It catches a variety of fishes depending upon the place where it is set, but we may mention the following: Cod. No time was to be lost. The ships in haddock, hake, pollock, flounder, plaice, the harbor and a battery on Copp's Hill halibut, mutton-fish, sculpin, skate, and opened fire; but those were not the days grey-fish. The gill-net, of which we used various meshes, is a net set vertically at took 3000 infantry, and crossed over to any depth in the water, into which the Charlestown in boats to storm the works. fishes run during the night and become It was a fine summer day, and the hills, enmeshed. Herring, mackerel, smelt, and spires, and roofs of the city were covered grey fish are caught in this way, and also with spectators. Soon a fire, bursting many others such as cunner, hake, sculfrom the wooden houses of the village of pins, and cod, when the net is in the right Charlestown, added to the grandeur of the locality. The net trawl, which is towed through the water, is a long net bag with General Howe was too proud of British a broad mouth and a funnel about half valour to turn the works, but, forming his way along on the inside, which permits troops in two columns, marched to the the fish readily to reach the small "cod" assault. The Americans, who had little end, but keeps them from getting out artillery, and no ammunition to waste, again. The mouth is kept open, either by waited in silence until the British were a stout beam, or, as is more usual now, by when a sheet of fire broke out along their of each of the two "wings" of the trawl,

within ten rods, and preparing to charge means of "otter" boards, one at the end breastworks with such deadly aim, that to which the wire cables for hauling are whole ranks were cut down, and those attached. These "otter" boards act in not killed or wounded fled precipitately the same way as a kite, for just as a kite to the water-side. They were rallied, and tends to rise when hauled through the air, advanced a second time with a like result. so do these boards tend to go one to one. side and the other to the other, when progress of the battle from the heights of hauled through the water. The net trawl Boston, now came with reinforcements; is operated in mid-water or on bottom some gunboats enfiladed the works, and a takes whatever fish there are at that third attack, aided by a flank diversion, level, supposing that it is of the right size on, through the water. We obtained with it brass water bottle, which automatically cod, plaice, sole, hake, flounder, smelt,

cunner, butterfish, dab, skate, sculpin,

as many of the small bottom animals, various kinds, but it was quite successful in taking the large fishes as well, for we have brought up in it after one hour's Americans, and has been celebrated by Americans, and has been celebrated by them as one of the most glorious events of their War of Independence—Chambers' of fish, including one that weighed fifty pounds. The fish-fry trawl is a similar trawl, but small and made of sacking and without any funnel. It takes the was to obtain as much infe smaller animals in the water, including possible concerning the undevelop the young fishes, and occasionally even quite large ones. For the fish eggs and the very small animals and plants that professor Cox, to the cunner by Mr. Johnson, and to the place by myself.

The many facts learned concerning that name given to the floating organisms of abundance, edibility, life histories, etc. the water, which are legion. The nets will be dealt with in special accounts and are made of the silk bolting cloth, used need not be detailed here. In the unitzaby millers for sifting flour, the coarsest of tion of each fish special problems are which will stop anything as large as one-sixteenth of an inch in diameter, while the finest will permit only those less than one two-hundredths of an inch in diameter to pass out. These nets are of various sizes and are towed through the water at

ensely and form the food of the many ottom-living fishes. It also gave us one of the bottom material: stones, and, mud, etc., in which or on the surface wind currents, and also being carried to

depth of 200 fathoms in spite of the small when it was placed near shore where the size of our boat (60 feet). Many rare lived. By means of these traps we dis the sloping bottom between the depths of A great variety of methods and gear 10 and 20 fathoms. In this zone the tem- My Dear Mrs. Storr: and at another as low as 39° F. This was I caused by the winds, for when the wind was blowing on shore it drove the surface 18th, going over he was hit by either a water against the coast and heaped it up, from the coast and the cold water wei up from below to take its place and flooded the zone. The effect of this on the slow moving bottom animals may be imagined. Few of them would be able to stand such changes, but the active fishes are able to move up and down the slope and avoid these changes, and in fact we caught the cold-loving cod and haddock in large numbers in this zone, when the temperature was low. The importance, to any one who is fishing, of knowing what the temperature at the bottom is in such cases, is obvious, for when the cold water up-wells and comes nearer shore, the fishes will follow it and may be caught

> from land as at other times. Head-lines for catching fish with baited nooks and jigs of lead with many hooks.

> without the fisherman having to go as far

we used only occasionally. Another important part of the work was the determining of the physical conditions in the water. Most important of these is the temperature, which was taken regularly during the whole summer at definite depths from the surface to the bottom at the stations between Cape rifle or machine gun bullet in the left Breton and the Magdalen Islands. For shoulder. depths, left a few nights and then turned across. samples of water, that were collected, are being examined chemically by Professor Vachon, of Laval University, in order to determine how much salt they contain. In this way we learn how the physical in this way we learn how the physical of the part of the listed as leaving an American Atlantic port on May 11 and/arriving at Havana on May 18. She was commanded by Captain J. MacKenzie.

In this way we learn how the physical know.

In this way we learn how the physical of the loss of the May 18. She was commanded by Captain J. MacKenzie.

—A Pacific Port, June 9.—A burnind wessel was seen about 400 miles off shore from Basel, Switzerland. renadier, lobster, and spider crab, as well determine how much salt they contain. In this way we learn how the physical conditions in those waters changed during Believe me, the course of the summer, and that gives

us the explanation of the movements of

INVESTIGATION : The primary object of the expedition nets are used. Plankton is a The many facts learned concerning their

were able to trace the spawning and development of the fishes with floating eggs, as well as to determine the distribution of the numerous animals and minute plants that serve as food for the fry of the fishes and even for some of the adults, such as the herring and mackerel. The dredge, which is merely a rectangular iron frame to which a bag of net or sacking is attached, was used for dragging on bottom to get samples of the varied animals and seaweeds that populate the negation. weeds that populate the ocean floor so from Pleasant Bay to the south and ear

which the animals live. Small traps or the eastward by the general set of the costs made of laths are ordinarily used for currents toward Cape North. The enorpots made of laths are ordinarily used for catching crawling animals like the lobster, but for this purpose we used simple hoop traps, which were under the direction of Captain Rigby. Each of these consisted of an old waggon tire to which was attached a short bag of fine-meshed net, The trap was baited with dead fish and lowered to the bottom, a buoy being left attached to the line. Although there was present the mimals that eath.

AN ACCOUNT OF MELBOURNE STORR'S DEATH

Somewhere in France 10-5-'18

I am writing to tell you what particulars know of poor Mell's death...

to the German lines on the night of the



PTE. MELBOURNE STORR. Killed in Action, May 7, 1918.

over by letting slide down the line a After the raid was over Mell was going weight, which released the upper end of back to the dressing station with the the thermometer case. The thermometer German prisoners, when a shell exploded on being turned over registered the tem- very close to him, several pieces striking perature at the moment in just the same him in the breast penetrating his heart the Virginian coast.

Very Sincerely Yours. CHESTER W. MALLOCH No. 742679

NEWS OF THE SEA

-Washington, June 6.-Sinking of The submarine fired a torpedo. One of the British crew was injured. The Harpathian was a freighter of 2,800 net tons.
Washington, June 7.—A navy statement

o'clock Sunday afternoon nineteen persons had been picked up about thirty-eight had been picked up about thirty-eight miles south of New York, near where two American schooners were sunk by gunfire from a German submarine. The people were in a small gasoline launch when found. The next day the vessel natled a steamer bound for an American ort and transferred the submarine

-London, June 7.-It was an —London, June 7.—It was announced here to day that the members of the British delegation to the Anglo-German was prisoners conference at The Hague were not, as reported yesterday, on board the hospital ship Koningen Regentes when that vessel struck a mine and sank in the North Sea. Instead, the delegates were longed for the Anglo-German steamship of 8,153 gross tons, built at Newcastle, England, in 1907, for the cabin and immigrant trade between London and immigrant trade between London and Canada.

—New York, June 12—Two Norwegnam, Army Service Corps, Army Medical Corps.

civilian prisoners.

-London, June 6.-Several persons were killed by explosions or drowned in steamship which picked them up at sea the capsizing of a lifeboat from the steam- after they had been set adrift in their Kemiworth Castle, which reached a British small boats. Eighty tons of copper ingots port in a crippled condition as a result of part of the cargo of the Vindeggen, were a collision. Late reports are to the effect taken aboard the U-boat before the steamthat eight members of the crew of the ship was sunk by means of bombs. The Kenihoorth Castle are missing and that vessel was stopped by the submarine on

12,975 tons. She was built in Belfast in small boats were taken in tow until the 1904, and is bwned by the Union Castle Henrik Lund was sighted on June 10. Mail Steamship Company.

the Norwegian steamship Vinland by a which, went ashore last night at a point German submarine sixty-five miles off the on the Nova Scotia coast is in an exposed Virginia Capes at 6 p. m., Wednesday, June 5, was announced to-night by the the scene of the stranding, there is a posand landed to-day at Cape May N. J.

The Vinland was sent down nine hours after the British steamer Harpathian was torpedoed thirty-five miles farther from the Virginia coast. Until word of her came from Cape May to-day nothing had been heard of the operations of the enemy raiders since the landing of the Harpathian's crew yesterday. The Vinland was a steamer of 1.191 tons.

French armed merchant ship came into landed at a Nova Scotia port. Latest report here to-day and reported an encounter with a German submarine off the Virginia Capes. Details of the battle are ed to port. lacking, but it is said the fight occurred a short distance outside the Capes. The extent of the damage to the merchantman is unknown.

a German submarine seventy miles off the an Austrian naval division, consisting of

New York, June 9.—The Pinar Del Rio, returned to their base unscathed owned by the American and Cuban the destroyers pr

Please accept my sympathy on your & Son. She had a net tonnoge of 1,607 are four in number and are the large brass water bottle, which automatically closed on turning over and so imprisoned great loss of a true son, while we have and a length of 806 feet. She was last the Austrian navy. They disting an American Atlantic tons and carry a thousand me water from the desired depth. The many lost a true pal who always played the listed as leaving an American Atlantic tons and carry a the

> vessel was seen about 400 miles off shore on Tuesday night by a steamship which has arrived at this port to-day. When the steamer had arrived alongside, the vesse had burned to the water's edge. There was no sign of life from the floating been burned away, and no trace of life-

Navy Department. The entire crew was rescued by the steamer Palmer, which arrived late to-day in Chesapeake Bay. here to-day on a Norwegian steame which rescued them from a small lifeboat tons, with the loss of life of 1,008 of her All the members of the crew are thus accounted for, as the chief mate and fifteen men were landed early this morn-

Carolina coast.

re from a German submarine. The copie were in a small gasoline launch then found. The next day the vessel alled a steamer bound for an American out and transferred the submarine ictims to her.

The steamer to which survivors of two thooners were transferred, referred to in the foregoing dispatch from a Cuban port, eached New York Tuesday. The steamer to the Crews of the crew were picked up by another steamer eastward landed on the Register and landed on the Register. reached New York Tuesday. The steam-er brought in members of the crews of the schooners, believed Wiley and Hattie Dunn, torpedoed Sunday.

were picked up by another steamer east-ward bound, and landed on the English coast, the message said. Search is being made for forty more of her crew who are

eported to be missing.

The Ausania was a steel for

aboard the hospital ship Sindoro, which Lund, were sunk by a German submarine rescued the survivors of the Koningen when about 200 miles east of Cape Charles Va., on last Saturday and Mon-Among the hospital ship's company day respectively. This brings the total of rescued were nineteen returning German vessels sunk by U-boats since they began

their campaign in these waters to eighteen Their crews, totalling sixty-eight men, were brought here to-day by a Danish three passengers have not been accounted June 8, and the crew were obliged to unload the copper into the ship's small boats and transfer it to the U-boat. Then the

-A Canadian Atlantic Port, June 12 --Washington, June 7.—Sinking of The American 2,000-ton steel steamer position but, according to advices from war department, The crew was rescued sibility of re-floating her if the weather continues fine. The steamer, which was recently built at a United States lake port, was on her maiden voyage from there to a New England port with a cargo of coal loaded at a Cape Breton port.

When the ship struck, wireless calls for help were sent out and at mldnight lifesavers and fishing boats went out in search of the wreck. It was not untildaybreak that the ship was located, when -An Atlantic Port, June 7.-A the crew of thirty-four were rescued and rests firmly on a ledge and is heavily list-

-Rome, June 11.—An official statement issued by the Italian Admiralty today says: "At dawn on Monday near the Dalmatian Islands two small Italian this purpose special thermometers were used, which were lowered to the desired said Mell was one of the first to get can steamer Pinar Del Rio, was sunk by mander Rizzo Luigo De Milazzo, attacked coast of Maryland yesterday morning. two large battleships of the Viribus Uni-One of her boats, with the captain and tis class, assisted by ten destroyers. Our saventeen members of the crew, is missing; units, having broken through the line of another with sixteen men has landed on destroyers, hit the leading battleship with the Virginian coast.

NORWAY'S SHIP LOSSES

Washington, June 6.- Norway's shipwreckage. The name of the ship had ping losses through German submarine vessels of 11,791 tons were sunk. Two seamen lost their lives and four are miss-

about 70 miles of the coast of New Jersey. seamen in addition to 704 men and 53

ing at a life saving station on the North SHIPPING LOSSES CUT IN HALF

Washington, June 7—Senator Swanson acting chairman of the naval committee after a conference with navy heads, tohave destroyed sixty per cent. of all German submarines constructed, and that they have cut shipping losses in half. was obtained from highest navy depart-

The German submarines recently of ting off the Atlantic coast Senator Swanson said, are believed to have been driven from the coast and also from the main American shipping routes. None of the American war craft stationed abroad.

HORE CANADIAN TROOPS ARRIVE IN ENGLAND

Ottawa, June 6.-It is officially announced ced through the chief press censor's office that the following troops have arrived in