The Mt. Desert Island Biological Laboratory

Salsbury Cove, Maine

SUMMER COURSE IN INVERTEBRATE ZOOLOGY

JULY 7 TO AUGUST 16, 1941

Staff

ROY P. FORSTER, Dartmouth College, Director
ULRIC DAHLGREN, Princeton University, in charge of instruction
J. WENDELL BURGER, Trinity College, Instructor
———— ———— Instructor (to be appointed)

The Mt. Desert Island Biological Laboratory will again offer a course in Invertebrate Zoology for college undergraduates, graduates and high school teachers beginning Monday, July 7 and ending Saturday, August 16, 1941.

THE ISABELLE HEGNER MEMORIAL LABORATORY offers special facilities for instruction in marine zoology with ample aquarium space for keeping animals alive and in good condition. Emphasis will be placed on the study of living animals in the laboratory and in their natural habitat.

Professor Ulric Dahlgren, of Princeton University, will be in charge of the course assisted by Professor J. Wendell Burger of Trinity College and another instructor to be appointed. It will consist of lectures, laboratory exercises, field trips, discussions and a thesis by each student on some animal or aspect of zoology. Occasional lectures on special topics will also be given by other members of the laboratory colony. The anatomy, taxonomy, development, physiology, ecology and distribution of animals representing the invertebrate phyla will be studied, with varying emphasis on each topic according to the species being considered. A final examination will be arranged for those who wish it, especially those who plan to offer the course to colleges for credit. Students showing proficiency in the course may continue work at the laboratory without charge after August 16, either independently or with some member of the staff, until the laboratory closes about September 15. Being an integral part of the Wier Mitchell Station for research in marine biology the students benefit from association with experienced investigators and from the weekly seminars.

Located on the shore of Frenchman's Bay about six miles west of Bar Harbor, the laboratory offers easy access to a rich fauna in a great variety of habitats. A tide of from 9 to 16 feet exposes large areas twice a day for collecting.

During the 1940 course the following living animals were presented to the students. Some of the forms listed and a few not listed were also studied as stained preparations.

PORIFERA—Leucosolenia, Sycon (Grantia) Spongilla, Iophon, Chalina

COELENTERATA

HYDROZOA—Clava, Tubullaria, Sertularia, Corymorpha, Hydractinia, Hydrallmania, Obelia (hydroid), Obelia (medusa), Melicerta

SCYPHOZOA—Cyanea, Haliclystis

ANTHOZOA—Metridium, Sagartia, Bunodes, Edwardsia, Astrangia

CTENOPHORA—Bolinopsis

PLATYHELMINTHES

TURBELLARIA—Euplanaria, Proctotyla, Procerodes, Bdelloura, Syncollidium, Leptoplana

TREMATODA—Digenic fish worms, larval stages from snails

CESTODA—Fish tapeworms

NEMATHELMINTHES—Littoral nema, Acanthocephala

BRACHIOPODA—Terebratulina

NEMERTEA—Cephalothrix, Lineus, Amphiporus, Cerebratulus

TROCHELMINTHES—Brachionus, Pedalion, Synchaeta, Floscularia, Melicertum, Asplanchia

BRYOZOA—Tubulipora, Lichenopora, Idmonea, Gemellaria, Bugula, Caberea, Microporella, Alcyonidium, Cristatella

CHAETOGNATHA—Sagitta

ANNELIDA

GEPHYREA—Phascolion

POLYCHAETA—Aphrodite, Lepidonotus, Nereis, Nephthys, Glycera, Arabella, Phyllodoce, Stemaspis, Maldane, Trophonia, Polydora, Parasabella, Spirorbis

OLIGOCHAETA—Dero, Clitellio, Tubifex

HIRUDINEA—Haemopsis, Herpobdella, Piscicola

ARTHROPODA

ARACHNOIDEA—Limulus, Nymphon, Pallene

CRUSTACEA

ENTOMOSTRACA—Artemia, Holopedium, Daphnia, Bosminia, Evadne, Podon, Leptodora, Argulus, Cyclops, Ergasilus, Lernaeocera, Balanus

MALACOSTRACA—Michtheimysis, Diastylis, Gammarus, Allorchestos, Aeginella, Idothea, Jaera, Pandulus, Hippolyte, Crago, Homarus, Cancer, Carcinides, Pagurus, Hyas, Libinia, Nauplius, zooea and mysis stages

MOLLUSCA

AMPHINEURA—Trachydermon

SCAPHOPODA—Dentalium

GASTROPODA—Aeolis, Dendronotus, Doris, Buccinum, Thais, Nassa, Littorina, Polinices, Crepidula, Admea, Aporrhais

PELECYPODA—Mya, Modiolus, Nucula, Artica, Pecten, Teredo, Yoldia, Saxicava, Anomia

ECHINODERMATA

ASTEROIDEA—Asterias, Henricia, Ctenodiscus, Solaster

OPHIURA—Ophiopholis, Ophiura

ECHINOIDEA—Strongylocentrotus, Echinarachnius

HOLOTHURIA—Cucumaria, Leptosynapta, Psolus

CHORDATA—Boltenia, Halocynthia, Molgula, Ascidea, Ciona, Amaroucium

The usual climate of the island is pleasant and invigorating, with cool nights and daytime temperatures rarely exceeding 80°F. Although comprising only about 100 square miles of area, the island has a range of bold, deeply divided, ice eroded mountains across its southern half. Between the peaks, rising at the highest to 1,500 feet within two miles of the open ocean are many fresh water lakes and streams. The scenic features of this unusual combination of wooded mountains rising from the sea have been preserved for all time by the establishment of Acadia National Park, the only national park in the country in direct contact with the ocean. The laboratory is thus situated in a region of great beauty, unspoiled by commercial exploitation or nearness to cities.

Swimming, boating, hiking and fishing are the chief sports. Frenchman's Bay offers excellent sailing and fishing and the Acadia National Park has unusual opportunities for hikes, picnics and fresh water swimming.

Each student supplies his own microscope, dissecting set, laboratory paper and drawing utensils. Each one should also bring a copy of Pratt's *Manual of Common Invertebrates of North America* and at least one of the following textbooks: Parker and Haswell's *Textbook of Zoology*, volume I; Hegner's *College Zoology;* Borradaile and Pott's *Invertebrata.* For collecting, a bathing suit or shorts and tennis shoes will be desirable; some persons prefer hip boots. Warm clothing for boat trips and hikes is also necessary.

Tuition fee for the course will be $60, payable on or before July 7, 1941. If the fee is to be paid by a college or other institution for the student, notice to that effect must be received prior to July 7. Board will be furnished at the laboratory's dining hall for $8 per week, payable weekly in advance. Rooms in the village may be secured at weekly rates of from $2.50 to $4.

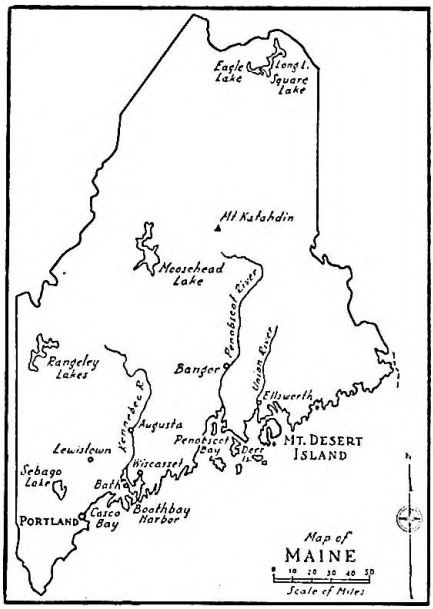
Applications for admission to the course must be received on or before May 10, 1941, by Dr. Roy P. Forster, Dartmouth College, Hanover, N.H., from whom application blanks may be obtained upon request. Each application must be accompanied by the enrollment fee of $5. If the applicant is not accepted his fee of $5 will be returned to him; otherwise it will be applied towards the tuition fee.

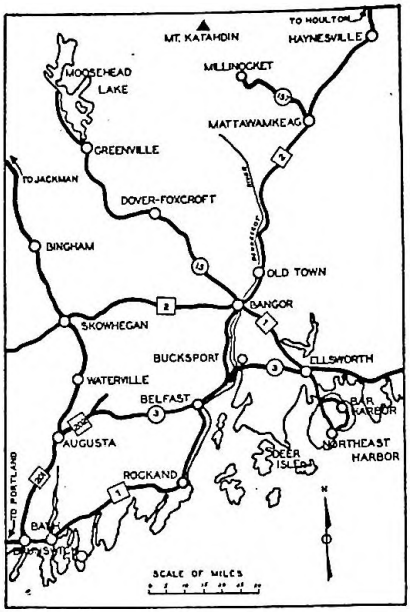
Those coming to Salsbury Cove by rail may arrive from Boston, New York, Philadelphia, and Washington without change on the Bar Harbor express, which runs several times a week to Ellsworth on the mainland, whence a bus runs through Salsbury Cove to Bar Harbor. Upon notice to the driver the bus will stop in Salsbury Cove. Other convenient rail connections from intermediate stations are provided by the Maine Central, the Boston and Maine, the Boston and Albany, and the New York, New Haven and Hartford railroads. An airplane line from Boston to Bar Harbor offers rapid serve at only slightly greater expense than by rail. Automobile roads from all sections of New England to Salsbury Cove are excellent with ample facilities for overnight stops.

The correct mailing address is:

MT. DESERT ISLAND BIOLOGICAL LABORATORY
SALSBURY COVE, MAINE

Mail should not be addressed to Mt. Desert which is the official name of an island village commonly called Somesville.


Eagle Lake
Long I.
Square Lake
Mt Katahdin
Moosehead Lake
Penobscot River
Rangeley Lakes
Bangor
Kennebec R.
Augusta
Penobscot Bay
Ellsworth
Union River
MT. DESERT ISLAND
Lewiston
Winscasset
Sebago Lake
Bath
Portland
Casco Bay
Boothbay Harbor
Map of
MAINE
Scale of Miles


MT. KATAHDIN
TO HOULTON
HAYNESVILLE
MOOSEHEAD LAKE
MILLINOCKET
MATTAWAMKEAG
GREENVILLE
TO JACKMAN
DOVER-FOXCROFT
PISCATAQUIS
BINGHAM
OLD TOWN
BANGOR
SKOWHEGAN
BUCKSPORT
ELLSWORTH
WATERVILLE
BELFAST
BAR HARBOR
AUGUSTA
NORTHEAST HARBOR
DEER ISLE
ROCKAND
TO PORTLAND
SCALE OF MILES


Jordan River
To Ellsworth
FRENCHMANS BAY
Salisbury Cove
BIOLOGICAL LABORATORY
Porcupine Islands
Bar I.
Eagle Lake
BAR HARBOR
Iron Bound Island
Schoodic Point
Bartlett Island
Sommes Sound
Flying Squadron Mt.
Champlain Mt.
Echo Lake
Sargent Mt.
Cadillac Mt.
Long Pond
Jordan Lake
ATLANTIC OCEAN
Seal Cove Pond
SOUTHWEST HARBOR
SEAL HARBOR
NORTHEAST HARBOR
Sutton Island
Little Cranberry Island
Cranberry Island
Map of
MT. DESERT ISLAND
MAINE
Scale of Miles