

UNIVERSITY OF WASHINGTON  
APPLIED FISHERIES LABORATORY  
FISHERIES CENTER  
SEATTLE 5, WASHINGTON

400352

19 May 1952

Dr. Paul B. Pearson, Chief  
Biology Branch  
Biology and Medicine Division  
US Atomic Energy Commission  
Washington 25, D.C.

Dear Dr. Pearson:

Your letter of May 13 stating that "It now appears quite definite that we would like your group to make a resurvey study of both Bikini and Eniwetok" has been received and we shall proceed to make plans accordingly. Present plans will be flexible because of uncertainty about the following points: (1) Nature of the survey. Is the survey to be pre-test, post-test, or both? The period immediately following a test is the period for which our data are most lacking and therefore of first order of importance. (2) Limitations on scientific personnel. (3) Available supporting facilities.

We are looking forward to meeting Drs. Plough and Wilbur in Seattle on May 31st and undoubtedly we can resolve these and other problems at that time.

With a terminal date on the resurvey of September 1 or shortly thereafter, a departure from Seattle about July 28, 35 days before September 1, is suggested. This date was arrived at in the following manner:

- (1) 6-8 days for round trip air travel between Seattle and Eniwetok.
- (2) 18 days at Eniwetok. Survey to include six previously established stations plus three additional stations in test areas.
- (3) 12 days for Bikini including 2 days for round trip travel between Eniwetok and Bikini. Ten days at Bikini would allow for the survey of 4 reef and 1 lagoon stations. This program is dependent upon a surface vessel, such as an LCI, for transportation between Eniwetok and Bikini and for quarters at Bikini. If a vessel is not available a limited survey might possibly be made if a few men with a rubber landing boat could be flown to Bikini in a PB4 or similar aircraft.

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The need for supporting facilities and non-scientific personnel is about the same as suggested by Dr. Donaldson on Pages 9 and 10 of UWFL-30. Supporting facilities needed are as follows:

- (1) Round trip air transportation from Seattle to Eniwetok for 6 men and 600 pounds of equipment. Heavy equipment, not to exceed 2,000 pounds, could be sent out in advance by surface vessels.
- (2) Living accommodations for 6 men of officer status either on board ship or on one of the resident islands.
- (3) One hundred and fifty square feet of covered laboratory space.
- (4) A refrigerating unit of about 15 cubic feet capacity operating at 0<sup>o</sup>F. Refrigeration should be in a unit not being used for food storage.
- (5) Small surface vessels for transportation within the lagoon.
- (6) 50 pounds of dry ice at time of departure from Eniwetok for Seattle.
- (7) An LCI or similar vessel for Bikini work and possibly for living quarters at Eniwetok (See (2) above).
- (8) If (7) not available, a flight to Bikini in a PBV or similar aircraft.

Non-scientific personnel needed are as follows:

- (1) A naval liaison officer.
- (2) A boat crew for (5) above.
- (3) Two helpers to assist with gear, collections, etc.

I have forwarded a copy of your letter to Dr. Donaldson and expect to have his suggestions by the time Drs. Plough and Wilbur visit us. The latest word from the Donaldsons is that they are all busy and thoroughly enjoying their tour.

Sincerely yours,

*Allyn H. Seymour*  
Allyn H. Seymour  
Acting Director

AHS:pr

cc: Dr. L.R. Donaldson  
Dr. H. H. Plough  
Dr. K. M. Wilbur  
Mr. K. Englund

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UNIVERSITY OF WASHINGTON  
Capt. James E. Russell, MILITARY Application

April 15, 1950

J. E. Finley, Administrative Office,  
Division of Biology & Medicine  
PROPOSED BIKINI RE-SURVEY - 1950

7 April 1950

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Dr. Paul S. Pearson  
Chief, Biology Branch  
Division of Biology & Medicine  
Atomic Energy Administration

The Division of Biology and Medicine is interested in making another re-survey this summer of Unalutok and Bikini under the direction of Dr. Lauren E. Donaldson, Applied Fisheries Laboratory, University of Washington.

It would be appreciated if you could designate someone in your staff to make preliminary inquiry of the Navy Department regarding the possibility of the Navy Department providing transportation and forward area support of the expedition on essentially the same basis as the previous years.

(1) They should serve to continue the studies initiated at the time of the last re-survey.

Attached is a copy of a letter from Dr. Donaldson, which suggests that the re-survey be made during the last two weeks of July and the first week of August. You will notice that Dr. Donaldson has indicated that he has under preparation a complete operations plan, a copy of which will be provided for your use as soon as it is received. Until then, probably all that can be done is to explore in general terms the possibility of a Navy forward area support of the expedition.

(2) Reference is made to your memorandum of April 29th, 1949 to the Chief of Naval Operations (OP-35) by which you initiated arrangements with the Navy Department last year. The present plan of involvement is as follows:

Reference is made to your memorandum of April 29th, 1949 to the Chief of Naval Operations (OP-35) by which you initiated arrangements with the Navy Department last year.

Attachment: Dr. Donaldson's letter of April 8, 1950

Present Location

*Bikini*  
*Eniwetok*

- Dr. Lauren E. Donaldson - Parasitology
- Dr. Paul S. Pearson - Pathology of Birds
- Marine Biology
- Marine Algae
- Invertebrates

- U. of Wash. - Applied Physiology
- MEDICINE, HEALTH & SAFETY
- Wash. State College
- Dept. of Botany, U. of W.
- University of Hawaii

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