

SUMMARY OF OPERATIONS ON CONTRACT NO. W-28-094-eng-33

FOR THE MONTH OF SEPTEMBER 1947.

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I. The basic program of the Applied Fisheries Laboratory at the University of Washington, namely, that of measuring the effect of exposure of aquatic organisms in various stages of development continued, at a somewhat accelerated pace, following the return of the portion of the staff that had been at Bikini as a part of the resurvey unit.

*Sections I and II

Arrangements were again completed with the State of Washington, Department of Fisheries to recover the marked fish that are returning from the sea and entering the Samish River. These fish are the offspring of adult fish that were exposed to 100 r X-rays or from "Control" fish. The eggs from this year's returns will be removed and fertilized with males with a similar radiation background. The young that result will be studied to determine the changes, if any, in this, the third, generation.

Sections III and IV

In the fall of 1943 sockeye salmon adults were treated with 100 r doses of X-rays. Some fish were used as "Controls". Some of the offspring of these fish were returned to Cultus Lake, B. C. at the normal time for them to imigrate to the sea. This fall it is expected that the survivors will return from the sea. Any fish obtained will be spawned and their progeny carefully studied for changes.

The International Pacific Sockeye Salmon Fisheries Commission are aiding us in the attempted recovery of these fish.

II. The summaries of the studies completed on the exposure of plankton organisms to various amounts of X-rays was published in Science.

*Section numbers refer to the Project Chronology Chart, revised January 9, 1947.

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW DETERMINATION (FISCAL NUMBERS) 1. CLASSIFICATION MAINTAINED 2. CLASSIFICATION CHANGED TO: 3. CONTAINS NO DOE CLASSIFIED INFO 4. COORDINATE WITH: 5. CLASSIFICATION CANCELLED 6. CLASSIFIED INFO BRACKETED 7. OTHER (SPECIFY)	
SINGLE REVIEW AUTHORIZED BY: <i>AA [Signature]</i>	
REVIEWER (ADDY): 11-2-92	
NAME: <i>[Signature]</i>	
DATE: 11-14-92	
<input checked="" type="checkbox"/> OPENNET ENTRY Authorized for Public Release By: <i>[Signature]</i> Entered in OpenNet Date: 7/14/75	<input type="checkbox"/> Not Authorized for Public Release



MEDICINE, HEALTH & SAFETY

DOE ARCHIVES

Bonham, Kelshaw, Allyn H. Seymour, Lauren R. Donaldson and Arthur D. Welander.

"Lethal Effect of X-rays in Marine Microplankton Organisms".

Science, Vol. 106, No. 2750, September 12, 1947.

III. The field work at Bikini Atoll by members of the Bikini Scientific Resurvey has been completed for this year. The great mass of data collected remains to be summarized and organized into the final report.

IV. Richard F. Foster returned from the Resurvey and resumed his work at the 146 Building, Hanford Engineering Works.

Fish food and other supplies were transferred from the Applied Fisheries Laboratory to the 146 Building by Mr. Philip A. Olson.

Lauren R. Donaldson

Lauren R. Donaldson
Director of Contract
No. W-28-094-eng-33

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