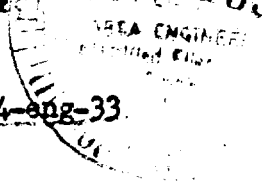


17244

13519



SUMMARY OF OPERATIONS ON CONTRACT NO. W-28-094-eng-33
FOR THE MONTH OF JULY 1948.

403913

R

Project I.* Basic studies on the effect of X-rays upon fish in various stages of development.

Sections I* and II*

The data describing the effect of exposure to 100 r units of X-rays on the F₂ generation of chinook salmon fingerlings is being summarized. These data bring up to date the available information on the effect of exposure of adult salmon to a single dose exposure of 100 r, and the resultant changes caused through the fresh water phase of the F₂ generation. Comparisons are made with "control" fish of similar history except for the X-ray exposure.

Project VI. Exposure of marine invertebrates to X-rays.

Marine snails of the genus Thais were X-rayed on July 6, with doses from 5900 r to 20,000 r. Only one specimen received 20,000 r; 4 received 10,000 r, 7 received 5900 r, and 17 were not irradiated. A few died within the first two weeks, presumably because of too warm water. The 20,000 r-specimen was one of these. Refrigeration was applied and the mortality dropped. By July 31, about half had died, but no significant mortality of reproduction irradiation was observed.

Project X. Bikini Resurvey of 1948.

The Bikini Radiobiological Resurvey Party of 1948 arrived at Bikini on July 3, 1948. Quarters and laboratory space were established on the U. S. Navy ship LCI (L) 1054. The U.S. Navy ship AG 140 provided support and small boat transportation.

*Project and section numbers refer to the Project Chronology Chart and Summary UWFL-9, revised March 11, 1948.

OPENNET ENTRY	
Authorized for Public Release	Date: 7/14/95
By: [Signature]	
Entered in OpenNet	
By: [Signature]	
Not Authorized for Public Release	
By: [Signature]	Date: [Blank]

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
SINGLE REVIEW AUTHORIZED BY: [Signature]	DETERMINATION (CIRCLE NUMBER(S))
REVIEWER (ADD):	1. CLASSIFICATION RETAINED
NAME: [Signature]	2. CLASSIFICATION CHANGED TO:
DATE: 11-14-98	3. CONTAINS NO DOE CLASSIFIED INFO
	4. COORDINATE WITH:
	5. CLASSIFICATION CANCELLED
	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SPECIFY):

Received in Office of Assistant General Manager
Date: 8/11/48 Time: 11:25

CONTRACTS 5123
DOE ARCHIVES


Project X. continued

The weather during the month at Bikini was very favorable for our operations. Collections were made in the field and processed aboard ship on a regular schedule. The program as outlined for Bikini last spring (UWFL-10) was completed, with all the stations occupied and sufficient data gathered that it will be possible for us to evaluate the changes that have taken place.

Collections were made in each collecting area with samples of the aquatic fauna and flora gathered for preservation, by drying, ashing, or chemical means. A total of 1878 ashed samples were prepared at Bikini. Material gathered for further study in our laboratories will greatly increase the number of samples.

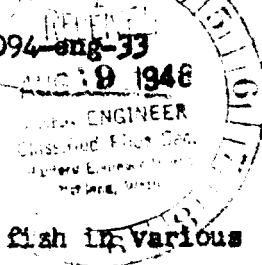
The period from July 21 to July 30 was spent at Eniwetok, where we collected extensively in six areas. Three of the collecting areas were in the relatively uncontaminated areas; with three stations near major sources of contaminating material. Spot collections and plankton sampling helped to complete the coverage.

A total of 798 ashed samples were prepared while at Eniwetok. Additional material was frozen, dried, or chemically preserved for continuing the study out of the laboratories on the mainland.


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

17244

SUMMARY OF OPERATIONS ON CONTRACT NO. W-28-094-eng-33
FOR THE MONTH OF JULY 1948.



Project I.* Basic studies on the effect of X-rays upon fish in various stages of development.

Sections I* and II*

The data describing the effect of exposure to 100 r units of X-rays on the F₂ generation of chinook salmon fingerlings is being summarized. These data bring up to date the available information on the effect of exposure of adult salmon to a single dose exposure of 100 r, and the resultant changes caused through the fresh water phase of the F₂ generation. Comparisons are made with "control" fish of similar history except for the X-ray exposure.

Project VI. Exposure of marine invertebrates to X-rays.

Marine snails of the genus Thais were X-rayed on July 6, with doses from 5900 r to 20,000 r. Only one specimen received 20,000 r; 4 received 10,000 r, 7 received 5900 r, and 17 were not irradiated. A few died within the first two weeks, presumably because of too warm water. The 20,000 r-specimen was one of these. Refrigeration was applied and the mortality dropped. By July 31, about half had died, but no significant mortality effect of irradiation was observed.

Project X. Bikini Resurvey of 1948.

The Bikini Radiobiological Resurvey Party of 1948 arrived at Bikini on July 3, 1948. Quarters and laboratory space were established on the U. S. Navy ship LCI (L) 1054. The U.S. Navy ship AG 140 provided support and small boat transportation.

*Project and section numbers refer to the Project Chronology Chart and Summary UNPL-9, revised March 11, 1948.

OPENNET ENTRY	Authorized for Public Release	Date
	By <u>AP/FCI</u>	<u>7/16/95</u>
Not Authorized for Public Release	Entered in OpenNet	Date
	By	

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
SINGLE REVIEW AUTHORIZED BY: <u>AP/FCI</u>	DETERMINATION (CIRCLE NUMBER(S))
REVIEWER (ADD):	1. CLASSIFICATION RETAINED
NAME: <u>AP/FCI</u>	2. CLASSIFICATION CHANGED TO:
DATE: <u>11-14-94</u>	3. CONTAINS NO DOE CLASSIFIED INFO
	4. COORDINATE WITH:
	5. CLASSIFICATION CANCELLED
	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SPECIFY):

Project I. continued

The weather during the month at Bikini was very favorable for our operations. Collections were made in the field and processed aboard ship on a regular schedule. The program as outlined for Bikini last spring (UWFL-10) was completed, with all the stations occupied and sufficient data gathered that it will be possible for us to evaluate the changes that have taken place.

Collections were made in each collecting area with samples of the aquatic fauna and flora gathered for preservation, by drying, ashing, or chemical means. A total of 1878 ashed samples were prepared at Bikini. Material gathered for further study in our laboratories will greatly increase the number of samples.

The period from July 21 to July 30 was spent at Eniwetok, where we collected extensively in six areas. Three of the collecting areas were in the relatively uncontaminated areas; with three stations near major sources of contaminating material. Spot collections and plankton sampling helped to complete the coverage.

A total of 798 ashed samples were prepared while at Eniwetok. Additional material was frozen, dried, or chemically preserved for continuing the study out of the laboratories on the mainland.

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

17244
 AUG 18 1948
 13

SUMMARY OF OPERATIONS ON CONTRACT NO. W-28-094-eng-33
 FOR THE MONTH OF JULY 1948.

Project I.* Basic studies on the effect of X-rays upon fish in various stages of development.

Sections I* and II*

The data describing the effect of exposure to 100 r units of X-rays on the F₂ generation of chinook salmon fingerlings is being summarized. These data bring up to date the available information on the effect of exposure of adult salmon to a single dose exposure of 100 r, and the resultant changes caused through the fresh water phase of the F₂ generation. Comparisons are made with "control" fish of similar history except for the X-ray exposure.

Project VI. Exposure of marine invertebrates to X-rays.

Marine snails of the genus Thais were X-rayed on July 6, with doses from 5900 r to 20,000 r. Only one specimen received 20,000 r; 4 received 10,000 r, 7 received 5900 r, and 17 were not irradiated. A few died within the first two weeks, presumably because of too warm water. The 20,000 r-specimen was one of these. Refrigeration was applied and the mortality dropped. By July 31, about half had died, but no significant mortality effect of irradiation was observed.

OPENNENT ENTRY
 Authorized for Public Release
 By: *[Signature]*
 Entered in OpenNet
 Date: 7/14/95
 Date:
 Note: For Public Release

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
SINGLE REVIEW AUTHORIZED BY: <i>A.P. Sinigaglia 11-2-94</i>	DETERMINATION (CIRCLE NUMBER(S))
REVIEWER (ADD):	1. CLASSIFICATION RETAINED
NAME: <i>R. Carpenter</i>	2. CLASSIFICATION CHANGED TO:
DATE: <i>11-14-94</i>	3. CONTAINS NO DOE CLASSIFIED INFO
	4. COORDINATE WITH:
	5. CLASSIFICATION CANCELLED
	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SPECIFY):

Project X. Bikini Resurvey of 1948.

The Bikini Radiobiological Resurvey Party of 1948 arrived at Bikini on July 3, 1948. Quarters and laboratory space were established on the U. S. Navy ship LCI (L) 1054. The U.S. Navy ship AG 140 provided support and small boat transportation.

*Project and section numbers refer to the Project Chronology Chart and Summary UWFL-9, revised March 11, 1948.

Project I. continued

The weather during the month at Bikini was very favorable for our operations. Collections were made in the field and processed aboard ship on a regular schedule. The program as outlined for Bikini last spring (SWFL-10) was completed, with all the stations occupied and sufficient data gathered that it will be possible for us to evaluate the changes that have taken place.

Collections were made in each collecting area with samples of the aquatic fauna and flora gathered for preservation, by drying, ashing, or chemical means. A total of 1878 ashed samples were prepared at Bikini. Material gathered for further study in our laboratories will greatly increase the number of samples.

The period from July 21 to July 30 was spent at Eniwetok, where we collected extensively in six areas. Three of the collecting areas were in the relatively uncontaminated areas; with three stations near major sources of contaminating material. Spot collections and plankton sampling helped to complete the coverage.

A total of 798 ashed samples were prepared while at Eniwetok. Additional material was frozen, dried, or chemically preserved for continuing the study out of the laboratories on the mainland.

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

[REDACTED]

RECEIVED 13515
17244

SUMMARY OF OPERATIONS ON CONTRACT NO. W-28-024-eng-33

FOR THE MONTH OF JULY 1948.

Project I.* Basic studies on the effect of X-rays upon fish in various stages of development.

Sections I* and II*

The data describing the effect of exposure to 100 r units of X-rays on the F_2 generation of chinook salmon fingerlings is being summarized. These data bring up to date the available information on the effect of exposure of adult salmon to a single dose exposure of 100 r, and the resultant changes caused through the fresh water phase of the F_2 generation. Comparisons are made with "control" fish of similar history except for the X-ray exposure.

Project VI. Exposure of marine invertebrates to X-rays.

Marine snails of the genus Thais were X-rayed on July 6, with doses from 5900 r to 20,000 r. Only one specimen received 20,000 r; 4 received 10,000 r, 7 received 5900 r, and 17 were not irradiated. A few died within the first two weeks, presumably because of too warm water. The 20,000 r-specimen was one of these. Refrigeration was applied and the mortality dropped. By July 31, about half had died, but no significant mortality effect of irradiation was observed.

Project X. Bikini Resurvey of 1948.

The Bikini Radiobiological Resurvey Party of 1948 arrived at Bikini on July 3, 1948. Quarters and laboratory space were established on the U. S. Navy ship LCI (L) 1054. The U.S. Navy ship AG 140 provided support and small boat transportation.

*Project and section numbers refer to the Project Chronology Chart and Summary UWFL-9, revised March 11, 1948.

OPENNET ENTRY	Date: 7/11/48
<input type="checkbox"/> Authorized for Public Release By: J.F.6 Entered in OpenNet	Date:
<input type="checkbox"/> Not Authorized for Public Release	Date:

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
SINGLE REVIEW AUTHORIZED BY: <i>A. H. ... 11-2-94</i>	DETERMINATION (CIRCLE NUMBER(S))
REVIEWER (ADD):	4. CLASSIFICATION MAINTAINED
NAME: <i>R.A. ...</i>	2. CLASSIFICATION CHANGED TO:
DATE: <i>11-14-94</i>	3. CONTAINS NO OOE CLASSIFIED INFO
	4. COORDINATE WITH:
	5. CLASSIFICATION CANCELLED
	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SPECIFY):

Project X. continued

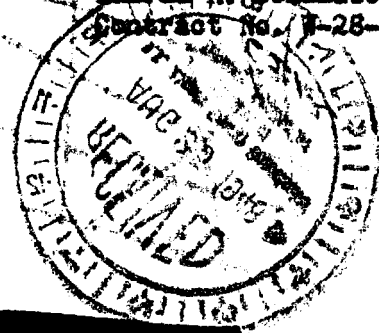
The weather during the month at Bikini was very favorable for our operations. Collections were made in the field and processed aboard ship on a regular schedule. The program as outlined for Bikini last spring (UWFL-10) was completed, with all the stations occupied and sufficient data gathered that it will be possible for us to evaluate the changes that have taken place.

Collections were made in each collecting area with samples of the aquatic fauna and flora gathered for preservation, by drying, ashing, or chemical means. A total of 1878 ashed samples were prepared at Bikini. Material gathered for further study in our laboratories will greatly increase the number of samples.

The period from July 21 to July 30 was spent at Eniwetok, where we collected extensively in six areas. Three of the collecting areas were in the relatively uncontaminated areas; with three stations near major sources of contaminating material. Spot collections and plankton sampling helped to complete the coverage.

A total of 798 ashed samples were prepared while at Eniwetok. Additional material was frozen, dried, or chemically preserved for continuing the study out of the laboratories on the mainland.

Laurence R. Donaldson
Laurence R. Donaldson, Director
Contract No. W-28-094-eng-33



WASHINGTON, D. C.
U. S. ATOMIC ENERGY COMMISSION

NOV 53 11 21 AM '48

RECEIVED