I-SIE-78a	PUBLICATION . SC BY ERDA SC AUTHORIZED	NOTICE OF RESEARCH PROJECT IENCE INFORMATION EXCLANGE SMITHSONIAN INSTITUTION	SIE NO.		
	/ ENERGY RESEAL	RCH AND DEVELOPMENT ADMINISTRA	TION ERDA CONTRACT N E $(26-1)-641$		
	SUPPORTING DIV. OR OFFICE: Environment and Safety, Life Sciences				
	NAME & ADDRESS OF CONTRACTOR OR INSTITUTION: (State the division, department, or professional school, medical, graduate or other, with which this project should be identified.)				
	University of Hawaii		405460		
	Research Corporation		E The Theory I have the		
	1110 University Avenue, Room 402 Honolulu, Hawaii 96814				
	TITLE OF PROJECT:				
	Fish Toxicity at Enewetak and Bikini Atolls, Marshall Islands				
	NAMES DEBARTHENT AND DEFICIAL T	TT ES OF PRINCIPAL INVESTIGATORS AND OTHE	R PROFESSIONAL SCIENTIFIC		
	NAMES, DEPARTMENT, AND OFFICIAL TO PERSONNEL: (not including graduate studer A. H. Banner	ITLES OF PRINCIPAL INVESTIGATORS AND OTHE hts) engaged on the project, and fraction of man-year de J. E. Randall	ER PROFESSIONAL SCIENTIFIC evoted to the project by each person. P. J. Scheuer		
	PERSONNEL: (not including graduate studer	nts) engaged on the project, and fraction of man-year de	evoted to the project by each person.		
	PERSONNEL: (not including graduate studer A. H. Banner	nts) engaged on the project, and fraction of man-year de J. E. Randall	P. J. Scheuer		
	PERSONNEL: (not including graduate studer A. H. Banner Professor of Zoology University of Hawaii Co-Princi Investigator	its) engaged on the project, and fraction of man-year de J. E. Randall Ichthyologist	P. J. Scheuer Professor of Chemistry University of Hawaii Acting P.I., 5/15 to		
,	PERSONNEL: (not including graduate studer A. H. Banner Professor of Zoology University of Hawaii	nts) engaged on the project, and fraction of man-year de J. E. Randall Ichthyologist B. P. Bishop Museum	P. J. Scheuer Professor of Chemistry University of Hawaii Acting P.I., 5/15 to 12/31, 1975		
	PERSONNEL: (not including graduate studer A. H. Banner Professor of Zoology University of Hawaii Co-Princi Investigator	nts) engaged on the project, and fraction of manyear de J. E. Randall Ichthyologist B. P. Bishop Museum Co-Principal Investigator	P. J. Scheuer Professor of Chemistry University of Hawaii Acting P.I., 5/15 to		
	PERSONNEL: (not including graduate studer A. H. Banner Professor of Zoology University of Hawaii Co-Princi Investigator	nts) engaged on the project, and fraction of manyear de J. E. Randall Ichthyologist B. P. Bishop Museum Co-Principal Investigator	P. J. Scheuer Professor of Chemi University of Hawa Acting P.I., 5/15 12/31, 1975		

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Ciguatera is a human intoxication caused by the ingestion of certain tropical reef fishes. A plausible theory of the unpredictable outbreaks of ciguatera links the sudden toxicity of normally edible fish to man-made activities at coral reefs. The proposed clean-up activities at Enewetak and Bikini atolls might therefore be accompanied by apparance of ciguateric fishes. Both carnivorous and herbivorous fishes will be caught and tested for ciguatera by an established bioassay (feeding of mongooses).

RESULTS TO DATE:

One hundred and fifty-four specimens belonging to 24 species have been collected and tested. Of these, 11 of 12 specimens of Epinephelus fuscoguttatus (Serranidae) and 2 of 4 specimens of Plectropomus leopardus (Serranidae), totalling 8.5% of fish tested, were ciguatoric.

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	PROGRAM CATEGORY NO			
BUDGET	1			
PRIMARY				
SECONDARY				

rincipal Investigator

9/25/75

DATE: INVESTIGATOR -- DO NOT USE THIS SPACE