

**PRIORITY**

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U.S. ATOMIC ENERGY COMM  
TWX UNIT

P R 220100Z NOV 72  
FM USAEC/WALTER NERVIK/ENIWETOK MI

TO RHWNEAA/USAEC/M E GATES/LAS VEGAS NEV  
INFO RHEGAAA/MGEN F A CAMM/GERMANTOWN MD  
RHEGAAA/USAEC/T MCCRAW DOS/GERMANTOWN MD  
RHEGAAA/USAEC/E HELD DIR REGULATORY/GERMANTOWN MD  
RHWNEAR/UNIV OF CALIF/LLL WALTER NERVIK/LIVERMORE CA  
RUHHABA/USAEC/PASO W STREENAN/HONOLULU HI

BT

UNCLAS

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PHASE II SURVEY STATUS REPORT NO. 10

ONE HIGH ENERGY RADIATION MISSION AND ONE SHORT PHOTO MISSION  
FLOWN ON 20 NOV. HIGH ENERGY COVERAGE COMPLETED ON JAMES, GLENN,  
WALT, ALVIN, VAN, URIAH, TOM, SAM AND PERCY. HIGH ENERGY COVERAGE  
NOW COMPLETED ON ALL ISLANDS IN THE ATOLL.

DATA REDUCTION AND OVERLAY RADIATION CONTOUR PLOTS COMPLETED ON  
FRED, ELMER, DAVID, BRUCE, JANET, IRENE, YVONNE, URSULA, SALLY,  
BELLE, KATE, OLIVE, ALICE, CLARA, DAISY, AND LEROY.

NERVIK, GUDIKSEN, LYNCH AND DOYLE WENT ASHORE ON OLIVE AND BELLE  
TO CHECK THE CORRESPONDENCE BETWEEN GROUND MEASUREMENTS AND AERIAL

REPOSITORY DOE HISTORY DIVISION  
COLLECTION RG 326, Tommy McCraw, Job # 1320  
BOX No. 5  
FOLDER Radiological Survey

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DATA. ON OLIVE THE AERIAL DATA INDICATED FAIRLY UNIFORM LEVELS BETWEEN 6 AND 12 MICRO R OVER THE ISLAND WITH A SMALL AREA BETWEEN 12 AND 25 MICRO R NEAR THE ISLAND CENTER. THESE READINGS WERE CONFIRMED ON THE GROUND, WITH READINGS BETWEEN 15 AND 20 MICRO R IN THE CENTRAL AREA AND NO EVIDENCE OF LOCALIZED HOT SPOTS. ON BELLE THE AERIAL DATA ALSO INDICATED FAIRLY UNIFORM LEVELS BUT HIGHER THAN OLIVE. MOST OF BELLE LIES BETWEEN 50 AND 100 MICRO R BUT THERE IS A SMALL AREA BETWEEN 100 AND 200 MICRO R IN THE NORTHEAST QUADRANT. GROUND MEASUREMENTS CONFIRMED THIS DATA ALSO, WITH READINGS BETWEEN 150 AND 190 MICRO R BEING OBTAINED IN THE HOTTEST AREA INDICATED IN THE AERIAL SURVEY.

EGG PROBABLY WILL NOT HAVE FINAL COUNT RATE TO MICRO R PER HOUR CONVERSION FACTORS UNTIL THEY HAVE HAD A CHANCE TO MASSAGE THEIR DATA IN LAS VEGAS. ALLOWING FOR THE POSSIBILITY THAT THESE VALUES MAY CHANGE SLIGHTLY AS THE CONVERSION FACTOR BECOMES FINAL, THE FOLLOWING OBSERVATION MAY BE MADE ON THOSE ISLANDS FOR WHICH OVERLAY CONTUER PLOTS HAVE BEEN COMPLETED.

DAVID, ELMER, AND FRED: UNIFORM LEVELS OF 1 MICRO R PER HOUR OR LESS EXCEPT FOR THE THREE POINT SOURCES ON ELMER AND THE TWO ON FRED ALREADY NOTED IN PREVIOUS STATUS REPORTS.

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BRUCE: MOST OF THE ISLAND BELOW 1 MICRO R. ONE SMALL PATCH IN CENTER BETWEEN 1 AND 1.7 MICRO R.

THE FOLLOWING ISLANDS HAVE FAIRLY UNIFORM DISTRIBUTION OF ACTIVITY OVER THE CENTRAL AREAS WITH MAXIMUM VALUES AS INDICATED:

URSULA AND LEROY: 3.5 TO 6 MICRO R/HR

OLIVE : MOSTLY 6 TO 12 MICRO R/HR WITH ONE PATCH 12 TO 25

KATE : 12 TO 25

DAISY, CLARA, AND ALICE: 25 TO 50

BELLE : MOSTLY 50 TO 100 ONE PATCH 100 TO 200

JANET: : MOST OF THE ISLANDS BETWEEN 12 AND 25 MICRO R/HR WITH ONE AREA BETWEEN 25 AND 50 MICRO R /HR IN NORTHEAST CORNER.

IRENE : MUCH STRUCTURE TO THE RADIATION PATTERN MOSTLY 25 TO 50 MICRO R/HR BUT THERE IS ONE AREA BETWEEN 50 AND 100 MICRO R ON THE NORTH SIDE OF THE CRATER.

SALLY : MUCH STRUCTURE TO THE PATTERN, UNDOUBTEDLY DUE TO PACE ACTIVITIES. MOST OF THE LEVELS ARE BETWEEN 3 AND 12 MICRO R/HR BUT THERE IS ONE SMALL AREA BETWEEN 12 AND 25 MICRO R/HR IN THE NORTHWEST CORNER.

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YVONNE : A VERY COMPLEX STRUCTURE, ENTIRELY CONSISTENT WITH THE GROUND SURVEY DATA.

HIGH QUALITY MULTISPECTRAL PHOTOGRAPHY IS NOW COMPLETE ON ALL ISLANDS. FIVE PHOTO BOOKS ARE COMPLETED AND LARGE (16 X 20 INCH) WORKING PRINTS ARE BEING MADE FOR THE ENGINEERING SURVEY GROUP. JACK DOYLE AND THE TWO PHOTOGRAPHERS WILL LEAVE FOR HOME ON NOV 22.

THE REMAINING HELO FLYING HOURS WILL BE DEVOTED TO LOW ENERGY RADIATION MISSIONS ON ISLANDS IN THE NORTHERN HALF OF THE ATOLL. REDUCTION OF THE LOW ENERGY DATA WILL PROCEED AS SOON AS COMPUTER SOFTWARE IS PERFECTED.

END OF PH II STATUS REPORT NO 10.

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