MILITARY AIR

## PROJECT 10073 RECORD CARD

1. DATE 25 Sep 60	2 LOCATION S of Midway Islands		D Was Balloon D Probably Balloon
3. DATE-TIME GROUP  Local	4. TYPE OF OBSERVATION D Ground-Visual Air-Visual 6. SOURCE Military  8. NUMBER OF OBJECTS	O Ground-Roder  O Air-Intercept Reder	Probably Balloon  Was Aircraft Probably Aircraft Possibly Aircraft Was Astronomical Probably Astronomical Probably Astronomical Possibly Astronomical Possibly Astronomical Insufficient Data for Evaluation Unknown
4 min	one		
Round or oval object, six in continually changing red, graight from the object was veclimbed from water level, spobject passed from view behind	een and white. The ry bright. Object ed past the tail.		ably atmospheric he star Arcturus.

ATIC FORM 329 (REV 26 SEP 52)

SECURITY CLASSIFICATION JOINT MESSAGEFORM - C TINUATION SHEET UNCLASSIFIED FROM ATIC, W-P AFB APPROX DURATION OF EACH SEPARATE SIGHTING OF THE OBJ? HOW DID THE WITNESSES DETERMINE THAT EACH SUBSEQUENT SIGHTING WAS THE SAME OBJECT? ATIC 30 SEP 60 12 31 SECURITY CLASSIFICATION MITIALS SYMBOL AFCIN-4E2x UNCLASSIFIED DD: 100 173-1 TO . S. GOVERNMENT PRINTING OFFICE: 1985-483236

RECEIVED

RB472

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PP RJEDSQ

ATIC

DE RJHPKM 71C

P 101959Z

FM PACAFBASECOM HICKAM AFB OAHU

TO ATIC WRIGHT PATTERSON AFB ONIO

1960 OCT 10 22

ST

CONCERNING SIGTING OF UNIDENTIFIED FLYING GBJECT, ON 25 SEP 60. REQUESTED INFORMATIBE FOLLOWS. OBJECT DID APPEAR THE SAME SIZE AT ALL TIMES. OBJECT DID NOT APPEAR AS A POINT SOURCE. COLORS WERE A CONTINUOUS ASSOCIATION. EVERY CREW MEMBER SAW OBJECT FROM HIS OWN STATION. TRACK BEFORE TURN WAS 330 DEGREES, FINAL TRACK AFTER TURN WAS 210 DEGREES. BEARING OF THE OBJECT WAS 320 DEGREES. WAS FIRST SIGHTED AT TWO MILES AND FINALLY SIGHTED AT TWENTY MILES. RECHECK ON SIZE -- AT ARMS LENGTH WAS THE DIAMETER OF A DAME. NO PICTURES WERE TAKEN. VISIBILITY-EXCELLENT,

## JOINT MESSAGEFORM

SECURITY CLASSIFIC

SPACE BELOW RESERVED FOR GOMMUNICATION CENTER

CATEGORY B ENCRYPTION-PHYSICALLY REMOVE ALL INTERNAL REFERENCES BY DATE-TIME GROUP PARAPHRAGE NOT REQUIRED EXC PRIOR TO DECLASSIFICATION

140cr 60 - 14 43z

To 1.13/15262

ORIG. OR REFERS TO CLASSIFICATION ACCOUNTING TYPE MGG (Check) PRECEDENCE SYMBOL OF REFERENCE AFCIN-88302 ROUTINE MULTI BOOK BINGLE ACTION AF SECRET INFO FROM: SPECIAL INSTRUCTIONS

ATIC, W-P AFB

TO:

COFS USAF WASH DC

VFROM: AFCIN -4E2x IC - 4/753

YOUR MSG AFCIN-88302 AND ATIC MSG AFCIN-4E2x IC-41684. THE ATIC CONCLUSION THAT THE OBJ WITNESSED BY THE CREW OF A MILITARY AIRCRAFT AT 0700Z ON 26 SEP 60, WAS PROBABLY ATMOSPHERIC REFRACTION OF THE STAR ARCTURUS. THE AIRCRAFT WAS AT POSITION 21-52N, 178-25W. REFRACTION IS THE BENDING OF LIGHT AS IT ENTERS OR LEAVES A DENSER OR LESS DENSE MEDIUM. IMAGES (LIGHT) SEEN UNDER THESE CONDITIONS WILL SEEM TO TWINKLE, CHANGE BOTH COLOR AND INTENSITY, CHANGE SHAPE AND SIZE, AS WELL AS TO DANCE AROUND AND APPEAR TO RUSH TOWARD AND AWAY FROM THE OBSERVER. A SECONDARY EFFECT IS THAT OF DISPERSION, LIGHT OF DIFFERENT WAVE LENGTHS (COLOR) BENDS AT DIFFERENT ANGLES, THEREFORE THE OBJECTS ALL APPEAR MULTI-COLORED. WHEN THE SUN, MOON OR STARS ARE LOW ON THE HORIZON THE LIGHT RAYS ARE BENT BY THE ATMOSPHERE INTO A CURVED PATH WHICH RENDERS THESE OBJECTS VISIBLE

1 7		
DATE	TIME	
12	1423	
MONTH	YEAR	
CCT	1960	

SYMBOL SIGNATURE AFCIN-4E2x TYPED NAME AND TITYE (Signature, it required) TYPED (of stamped) NAME AND TITLE Major Robert J. Friend PHONE 69216 PHILIP G. EVANS SECURITY CLASSIFIC Colonel, USAF Deputy for Science and Components

DD FORM 5 173

DD FORM 173, 1 OCT 49, WHICH WILL BE USED UNTIL EXHAUSTED

SECURITY CLASSIFICATION

FROM:

ATIC W-P AFB

UNCLASSIFIED

WHEN THEY ARE IN REALITY ABOUT ONE-HALF DEGREE BELOW THE HORIZON.

THE INCREASING DENSITY OF THE LOWER AIR CAUSES THE RAYS TO BEND.

THE STAR ARCTURUS WAS AT AN AZIMUTH WHICH CORRESPONDS TO THAT

REPORTED BY THE WITNESSES AND WOULD APPEAR ON OR JUST BELOW THE

HORIZON AT THEIR LATITUDE AT THE HOUR OF THE SIGHTING. THE

MAGNITUDE OF ARCTURUS IS 0.2, ONLY FIVE STARS; BETELGEUX, CANOPUS,

SIRIUS, RIGEL KENTAURUS AND VEGA ARE BRIGHTER. THE MOTIONS

ATTRIBUTED TO THE OBJ ARE PROBABLY DUE TO APPARENT MOTIONS RESULT
ING FROM INCONSISTENCIES IN THE ATMOSPHERE AND RELATIVE MOTION

RESULTING FROM AIRCRAFT MOVEMENT. IT WOULD NOT BE UNUSUAL FOR

EXPERIENCED OBSERVERS TO BE FOOLED BY THIS PHENOMENA. SIMILAR

EXPERIENCES HAVE EVEN FOOLED QUALIFIED PROFESSIONAL ASTRONOMERS

FOR A LIMITED TIME.

PARAPHRASE NOT REQUIRED EXC CATEGORY B ENCRYPTION—PHYS ALL INTERNAL REFERENCES BY PRIOR TO DECLASSIFICATION

DECLASSIFICATION AND THE SECTION AND ADDRESS OF THE SECTION ASSESSED.

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SYMBOL

AFCIN-AE2x

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TO U. S. GOVERNMENT PRINTING OFFICE: 1985-85223

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FM COMDR PACAFBASECOM HICKAM AFB HAWAII

TO RJWFAL/CMDR AIR DEFENSE COMMAND ENT AFB COLORADO

RJHPKA/CMDR HAWAIIAN AIR DEFENSE DIVISION WHEELER AFB HAWAII

RJEDSQ/CMDR AIR TECHNICAL INTELLIGENCE CENTER WPAFB OHIO

RJEZHQ/HQ USAF WASH DC

RJEZHQ/SEC OF THE AIR FORCE WASH DC

BT

UNCLASEFTOFROM BDI 212. HQ USAF FOR AFCIN. SEC OF AF FOR SAFIS.

REFERENCE AFR 200-2, PARA 15. SUBJECT: UFOB REPORT. UFOB WAS

SPOTTED 26/0700Z. REPORTED AS FOLLOWS: A1. OBJECT WAS ROUND OR OVAL

IN SHAPE; 2 SIX INCHES IN DIAMETER IF HELD IN HAND AT ARMS LENGTH;

3 CONTINUALLY CHANGING RED, GREEN AND WHITE. ONE COLOR WOULD LAST

FROM THREE TO FOUR SECONDS BEFORE MIXING INTO NEXT COLOR. THE

LIGHT FROM THE OBJECT WAS VERY BRIGHT. 4. ONLY ONE OBJECT SIGHTED

SEVERAL TIMES. 5. N/A 6. NONE 7. NO TAIL DESCENNIBLE 8. NO SOUND

HEARD BY THE CREW. 9. NONE. B1. OBJECT WAS VERY BRIGHT. FIRST

SIGHTED BY THE LEFT SCANNER, THEN THE RIGHT SCANNER, NAVIGATOR,

PAGE TWO RJHPKM 167F

PILOT AND AIRCRAFT COMMANDER, IN THAT ORDER. 2. OBJECT CLIMBED FROM WATER LEVEL AT EIGHT O'CLOCK POSITION. SPED PAST THE TAIL TO THE FIVE O'CLOCK POSITION. MISSION AIRCRAFT IN A TURN TO THE LEFT.

OBJECT LOST FROM VIEW. NEXT SIGHTING, MISSION ACFT OUT OF TURN LEVEL AT FIFTEEN THOUSAND FEET CSE TWO ONE ZERO DEGREES, OBJECT SIGHTED AT SIXTH DEGREES REL BEARING FORTY DEGREES HIGH MOVING ACROSS MISSION ACFT NOSE TO A REL BEARING OF THREE THREE ZERO DEGREES LOW. OBJECT PASSED FROM VIEW BEHIND A CLOUD BANK, TOPS, TEN THOUSAND. D. 26/0711Z-2152N/17325W. OBSERVED FOR A TOTAL OF FOUR MINUTES (2) NIGHT.

BT

27/0241Z SEP RJHPKM

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P 252340Z

FM HQ USAF

TO RJEDSQ/ATIC

INFO RJHPKM/PACAF

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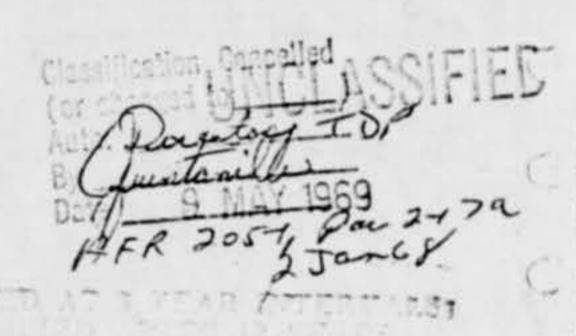
FROM AFCIN 88302

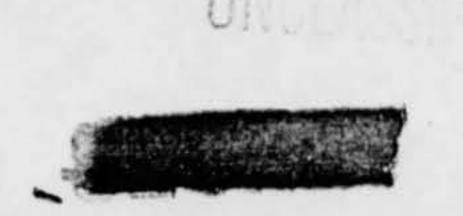
REQUEST AN ANALYSIS BE ACCOMPLISHED AS TO ANY ASSOCIATION OR CORRELATION WHICH CAN BE DEDUCED FROM ALL UFOB REPORTS WHICH HAVE BEEN SIGHTED NEAR THE SIBIR CLASS VESSELS OR NORTHWARD FROM HAWAII OVER THE PAST 10 DAYS. IT IS REQUESTED A REPLY BE ACCOMPLISHED AS SOON AS POSSIBLE WITH PACAF ALSO ADDED AS ADDRESSEE.

1960 SEP 26

BT

25/2344Z SEP RJEZHQ





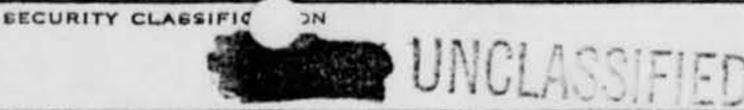


PAGE TWO RJHPKM 71C

SCATTERED CUMULUS, TOPS 2000 FEET. FIRST SIGHTING DURATION, ONE MINUTE; SECOND SIGTING DURATION THREE MINUTES. BY COLOR, SIZE AND CLOSE PROXIMITY OF THE TWO SIGHTINGS.

BT

12/2114Z OCT RJHPKM



JOINT MESSAGEFORM SPACE BELOW RESERVED FOR COMMUNICATION CENTER TYPE MSG (Check) PRECEDENCE ROUTINE BOOK MULTI BINGLE ACTION AFCIN-88302 SECRET AF ROUTINE INFO FROM: ATIC, W-P AFB TO: COFS USAF WASH DC RIEZHP INFO: PACAF HICKAM AFB HAWAII RJHPKM /SECRET/FROM: AFCIN-LEZX IC-4/684/ FOR AFCIN. REF YOUR MSG AFCIN 88302, ONLY TWO SIGHTINGS OF UNIDENTI-FIED FLYING OBJECTS HAVE BEEN REPORTED TO ATIC FROM THE HAWAILAN AREA IN THE PAST 10 DAYS. ON 18 SEP 60, AT 1015Z AND POSITION 35-20N, 176-18W, AN ELLIPTICAL SHAPED OBJ THE SIZE OF A FOOTBALL WAS SIGHTED. THE OBJ LEFT A TRAIL AND WAS BRIGHT ORANGE IN COLOR. WHEN FIRST SEEN THE OBJ WAS FIVE DEGREES ABOVE THE HORIZON AND FOLLOWED A HORIZONTAL TRAJECTORY ON A COURSE OF APPROX 100 DEGREES. THE OBJ WAS APPROX FIVE DEGREES ABOVE THE HORIZON WHEN IT DISAP-PEARED. THE OBJ WAS IN SIGHT FR 20 TO 30 SECONDS. WITNESSES REPORTED THAT THE SPEED OF THE OBJ APPEARED SLOWER THAN THE AVERAGE METEOR. THIS SIGHTING WAS REPORTED BY THE CREW OF A NAVY AIRCRAFT. DATE TIME ATIC ANALYZED THIS SIGHTING AS PROBABLY DUE TO THE OBSERVATION OF 20 29 1300 YEAR MONTH A METEOR OF THE "FIREBALL" CLASS. THE DESCRIPTION BY THE WITNESSES 1960 SEP SYMBOL EIGNATURE AFGIN-LE2x TYPED NAME AND TITE TO MALUTE, if required) WPED (or stemped) NAME AND TITLE Major Robert . Friend PHILIP G. EVANS NR. OF 3 PHONE Colonel, USAF SECURITY CLASSIFICATION Deputy for Science and Components

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REPLACES DD FORM 173, 1 OCT 49. WHICH WILL BE USED UNTIL EXHAUSTED

SECURITY CLASSIFICATIO

ATIC, W-P AFB

FITS THAT OF THE CHARACTERISTIC FIREBALL, EVEN TO THE RELATIVELY SLOW VELOCITY. FIREBALLS ARE CHARACTERISTICALLY SLOWER THAN THE ORDINARY METEOR AND THIS IS PARTICULARLY TRUE OF THOSE SEEN IN THE EARLY EVENING, THE TIME THIS SIGHTING OCCURRED.

ON 26 SEP 60, AT 0700Z AND POSITION 21-52N, 178-25W, AN UFO WAS

OBSERVED BY THE CREW OF A MILITARY AIRCRAFT. THE OBJ WAS RPTD AS ROUND OR OVAL IN SHAPE, SIX INCHES IN DIAMETER AT ARM'S LENGTH AND CONTINUALLY CHANGING FROM RED TO GREEN TO WHITE AND REPEATING THE CYCLE. EACH COLOR WOULD PERSIST FOR THREE TO FOUR SECONDS BEFORE CHANGING TO THE NEXT. THE LIGHT FROM THE OBJ WAS RPTD TO BE VERY BRIGHT. ONLY ONE OBJ WAS RPTD, BUT IT WAS OBSERVED SEVERAL TIMES. THE OBJ LEFT NO TAIL OR TRAIL AND MADE NO SOUND WHICH COULD BE DETECTED BY THE WITNESSES. WHEN THE OBJ WAS FIRST SIGHTED THE MISSION AIRCRAFT WAS IN A LEFT TURN, THE OBJ APPEARED TO CLIMB FROM WATER LEVEL AT THE EIGHT O'CLOCK POSITION, SPED PAST THE TAIL OF THE RPTG AIRCRAFT TO THE FIVE O'CLOCK POSITION WHERE IT WAS LOST FROM VIEW. WHEN NEXT THE OBJ WAS SEEN THE MISSION AIRCRAFT WAS LEVEL AT 15,000' ON A COURSE OF 210 DEGREES. THE OBJ WAS SIGHTED AT SIXTY DEGREES RELATIVE BEARING AT 40 DEGREES ELEVATION AND MOVING ACROSS THE NOSE TO A RELATIVE BEARING OF 330 DEGREES LOW. THE OBJ DISAPPEARED BEHIND A CLOUD BANK WITH TOPS AT 10,000'. THE OBJ WAS OBSERVED FOR A TOTAL OF FOUR MINUTES. THIS RPT ARRIVED AT ATIC ON 27 SEP 60, AND HAS NOT AS YET BEEN ANALYZED DUE TO THE ABSENCE OF ESSENTIAL INFO WHICH HAS BEEN REQUESTED FR PACAF. IN VIEW OF THE INFO WHICH IS AVAILABLE, THIS OBJ COULD POSSIBLY HAVE

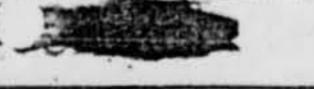
PAGES

DD: MAY 55 173-1.

SYMBOL

## JOINT MESSAGEFORM - CL...INVATION SHEET

SECURITY CLASSIFICATION



FROM

ATIC, W-P AFB

JNCLASSIFIED

BEEN A USSR MISSILE OR A STAR NEAR THE HORIZON WITH MOTION OF
THE MISSION AIRCRAFT GIVING IT AN APPARENT MOTION. IF THIS OBJ
WAS A MISSILE, AND THE RPTD INFO OF ITS FLIGHT PATH TRUE, IT WAS
PROBABLY FIRED FROM SOME SURFACE VESSEL. A LONG RANGE MISSILE
WOULD HAVE HAD A PATH WHICH APPEARED MUCH STRAIGHTER AND IT WOULD
HAVE APPEARED TO ORIGINATE AT A SPOT ABOVE THE HORIZON. HQ USAF
WILL BE PROVIDED WITH THE COMPLETE ATIC ANALYSIS IMMEDIATELY UPON
ITS COMPLETION.

DECLARIED AT 5 125 DECLARIED ASTA DOD DIZ 51 DOFFREARS.

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CLASSIFICATION OF REFERENCE ACCOUNTING ORIG. OR REFERS TO PRECEDENCE 1960 SEP TYTEMSG (Check) SYMBOL ROUTINE ACTION BOI 212 UNCLAS AF INFO FROM: SPECIAL INSTRUCTIONS ATIC, W-P AFB 47 TO: HICKAM AFB, THE HAWAIT PSHPKM /UNCLAS/FROM: AFCIN-4E2x 9-29/5-E PACAFBASECOM, REF YOUR MSG BOI 212, DTD 27 SEP 60, REQ THE FOLLOWING INFO CONCERNING THE SIGHTING OF AN UNIDENTIFIED OBJ ON 25 SEP 60. DID THE OBJ APPEAR THE SAME SIZE AT ALL TIMES? IF NOT, EXPLAIN THE CHANGE. DID THE OBJ START AS A POINT SOURCE? WERE THE REPORTED COLORS A CONTINUOUS ASSOCIATION OR ONLY MOMENTARY? DID THE CREW MEMBERS VIEW THE OBJ OUT OF WINDOW AT THEIR STATIONS, OR FROM OTHER POSITIONS? REQ A TRACE, WITH INDICATED HEADINGS, OF THE AIRCRAFT TRACK DURING THE SIGHTING. WHAT WAS THE BEARING OF THE OBJECT WHEN FIRST SEEN? HOW FAR AWAY DID THE OBJ APPEAR TO BE FROM THE A IRCRAFT WHEN FIRST SEEN, AT MID-FLIGHT, AND WHEN LAST SEEN? RE-CHECK THE APPARENT SIZE OF THE OBJ; SIX INCHES AT ARM'S LENGTH REPRESENTS A 1000' OBJ AT APPROX ONE STATUTE MILE DISTANCE. WERE ANY PICTURES TIME DATE MADE OF THE OBJ? IF PICTURES WERE MADE, REQ COPIES BE FWD TO ATIC. 28 1213 MONTH YEAR REQ THE WEATHER INFO FOR THE DATE OF THE SIGHTING. WHAT WAS THE 1960 SEP SYMBOL. SIGNATURE AFCIN-LE2x RELEASES TYPED NAME AND TITLE (Signature, if required) TYPED (or stamped) NAME AND TITLE m-Major Robert J. Friend NA. OF 2 PHILIP G. EVANS PAGE 1 PHONE 69216 Colonel, USAF SECURITY CLASSIFICATION

UNCLASSIFIED

Deputy for Science and Components