

MILITARY AIR

PROJECT 10073 RECORD CARD

1. DATE 25 Sep 60		2. LOCATION S of Midway Islands		12. CONCLUSIONS ☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon ☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft ☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical ☒ Other <u>Refraction</u> <i>Arcturus</i> ☐ Insufficient Data for Evaluation ☐ Unknown	
3. DATE-TIME GROUP Local _____ GMT <u>26/0700Z</u>		4. TYPE OF OBSERVATION ☐ Ground-Visual ☐ Ground-Radar ☒ Air-Visual ☐ Air-Intercept Radar			
5. PHOTOS ☐ Yes ☒ No		6. SOURCE Military			
7. LENGTH OF OBSERVATION 4 min		8. NUMBER OF OBJECTS one		9. COURSE	
10. BRIEF SUMMARY OF SIGHTING Round or oval object, six inches in diameter, continually changing red, green and white. The light from the object was very bright. Object climbed from water level, sped past the tail. Object passed from view behind a cloud bank.				11. COMMENTS Object was probably atmospheric refraction of the star Arcturus.	

OPERATIONAL IMMEDIATE
UNCLAS EFTO

1960 SEP 27 03 29

TELEPHONED
TO *Capt Short*
NO. *71222*
TIME *0339Z*
Date *27 SEP*
By *17*

REO44

ZCSQB802ZCQYA043

OO RJEDSQ

DE RJHPKM 167FV

O 270226Z ZEX

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

U N C L A S E F T O FROM 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 DESCERNIBLE 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

UNCLAS EFTO

// A T I C //

HQA002

PP RJEDSQ

DE RJEZHQ 352

P 252340Z

FM HQ USAF

TO RJEDSQ/ATIC

INFO RJHPKM/PACAF

BT

[REDACTED] 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.

BT

25/2344Z SEP RJEZHQ

26 SEP 60

1960 SEP 26

ATIG 88

UNCLASSIFIED
RECEIVED

00 52

174/E2X
2 4142 (conty)
3 4X271
4 4X271

Classification Cancelled
(or changed to)

Auth: [Signature]
By: [Signature]
Date: 9 MAY 1969

17 FR 2054, Dec 24 79
2 Jan 68

DOWNGRADED AT 3 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS
DDP 218 21810

UNCLASSIFIED

PAGE TWO RJHPKM 71C

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

BT

10/2114Z OCT RJHPKM

JOINT MESSAGEFORM				SECURITY CLASSIFICATION UNCLASSIFIED	
SPACE BELOW RESERVED FOR COMMUNICATION CENTER					
Classification (or changed to) Auth. <i>Quantanilla</i> By <i>AFR 2051, 2 Jan 68</i> Date <i>9 MAY 1969</i>				<i>655</i> <i>2 Jan 68</i>	
PRECEDENCE		TYPE MSG (Check)		ACCOUNTING SYMBOL	ORIG. OR REFERS TO
ACTION ROUTINE		BOOK ☐ MULTI ☐ SINGLE ☐		AF	AFCIN-88302
INFO ROUTINE					CLASSIFICATION OF REFERENCE SECRET
FROM: ATIC, W-P AFB				SPECIAL INSTRUCTIONS <i>RTE 240</i> <i>RTHPKM</i> ENCODED Initials <i>[initials]</i> Time <i>1924</i> Checked By <i>[signature]</i> DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS.	
TO: COFS USAF WASH DC <i>RTE 240</i> INFO: PACAF HICKAM AFB HAWAII <i>RTHPKM</i> <i>18X</i> <i>IC-41684</i> /SECRET/FROM: AFCIN-4E2x				FOR AFCIN. REF YOUR MSG AFCIN 88302, ONLY TWO SIGHTINGS OF UNIDENTIFIED FLYING OBJECTS HAVE BEEN REPORTED TO ATIC FROM THE HAWAIIAN 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 DISAPPEARED. 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. ATIC ANALYZED THIS SIGHTING AS PROBABLY DUE TO THE OBSERVATION OF A METEOR OF THE "FIREBALL" CLASS. THE DESCRIPTION BY THE WITNESSES	
WRITER SYMBOL AFCIN-4E2x TYPED NAME AND TITLE (Signature, if required) <i>Robert J. Friend</i> Major Robert J. Friend PHONE 69215 SECURITY CLASSIFICATION UNCLASSIFIED		RELEASER SIGNATURE <i>Philip G. Evans</i> TYPED (or stamped) NAME AND TITLE PHILIP G. EVANS Colonel, USAF Deputy for Science and Components		DATE 30 28 MONTH SEP TIME 1300 YEAR 1960	

DD FORM 173
1 MAY 55

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

JOINT MESSAGEFORM - CONTINUATION SHEET

SECURITY CLASSIFICATION

UNCLASSIFIED

FROM:

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

SYMBOL

AFCIN-4E2

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PAGES 3

SECURITY CLASSIFICATION

INITIALS

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DD FORM 1 MAY 55 173-1

U. S. GOVERNMENT PRINTING OFFICE: 1955-952236

JOINT MESSAGEFORM - CONTINUATION SHEET

SECURITY CLASSIFICATION

FROM:

ATIC, W-P AFB

UNCLASSIFIED

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.

DOWNGRADED AT 5 YEAR INTERVALS:
DECLASSIFIED AFTER 12 YEARS.
DOD, DIRM 380.10

ATIC
30 FEB 80 15 54
RECEIVED

100 FEB 80 JS 15

[REDACTED]

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SYMBOL	PAGE NR	NR OF PAGES	SECURITY CLASSIFICATION	INITIALS
AFCIN-4E2x	3	3	[REDACTED]	

DD FORM 173-1
MAY 55

U.S. GOVERNMENT PRINTING OFFICE: 1968-302236

UNCLASSIFIED

JOINT MESSAGEFORM				SECURITY CLASSIFICATION			
				UNCLASSIFIED 73F			
SPACE BELOW RESERVED FOR COMMUNICATION CENTER							
301849/66							
PRECEDENCE		1960 SEP 30		TYPE MSG (Check)		ACCOUNTING SYMBOL	
ACTION		ROUTINE		BOOK MULT SINGLE		AF	
INFO						BOI 212	
FROM:		ATIC, W-P AFB		67		CLASSIFICATION OF REFERENCE	
TO:		HICKAM AFB, HI HAWAII		RJHPKM		UNCLAS	
/UNCLAS/FROM:		AFCIN-4E2x		9-2915-E		SPECIAL INSTRUCTIONS	
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 AIRCRAFT 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 MADE OF THE OBJ? IF PICTURES WERE MADE, REQ COPIES BE FWD TO ATIC. REQ THE WEATHER INFO FOR THE DATE OF THE SIGHTING. WHAT WAS THE							
SYMBOL		AFCIN-4E2x		SIGNATURE		DATE	
TYPED NAME AND TITLE (Signature, if required)		Major Robert J. Friend		Philip G. Evans		28	
PHONE		69216		TYPED (or stamped) NAME AND TITLE		TIME	
SECURITY CLASSIFICATION		UNCLASSIFIED		PHILIP G. EVANS		1213	
				Colonel, USAF		MONTH	
				Deputy for Science and Components		SEP	
						YEAR	
						1960	

JOINT MESSAGEFORM - C CONTINUATION SHEET

SECURITY CLASSIFICATION

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

3025680 15 31

SYMBOL

AFCIN-4E2x

BEC

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SECURITY CLASSIFICATION

UNCLASSIFIED

INITIALS

DD FORM 173-1
MAY 55

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RBZ73

CZCSQB183ZCQYA450110CT60 08 34

PP RJEDSQ

DE RJHPKM 71C

P 101959Z

FM PACAFBASECOM HICKAM AFB OAHU HAWAII

TO ATIC WRIGHT PATTERSON AFB OHIO

BT

7 Friends
UNCLAS FROM PACAFBASECOM/BDI-BAS-224. REFERENCE YOUR MSG UNCLAS
AFCIN-4E2X 9-2915-F CONCERNING SIGTING OF UNIDENTIFIED FLYING
OBJECT, ON 25 SEP 60. REQUESTED INFORMATIBF 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 430
DEGREES, FINAL TRACK AFTER TURN WAS 210 DEGREES. BEARING OF THE
OBJECT WAS 300 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,

RECEIVED

ATIC

1960 OCT 10 22 14

TELEPHONED

TO 00
NO. 71222
TIME 2220Z
Date 10 OCT 60
By: SA

(50)

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44X2A

JOINT MESSAGEFORM				SECURITY CLASSIFICATION	
SPACE BELOW RESERVED FOR COMMUNICATION CENTER					
A PARAPHRASE NOT REQUIRED EXCEPT PRIOR TO CATEGORY B ENCRYPTION—PHYSICALLY REMOVE ALL INTERNAL REFERENCES BY DATE-TIME GROUP PRIOR TO DECLASSIFICATION 14 OCT 60--14 43z To 1.13/1524z 37E					
PRECEDENCE		TYPE MSG (Check)		ACCOUNTING SYMBOL	
ACTION ROUTINE		BOOK ☐ MULTI ☐ SINGLE ☐		AF	
INFO				ORIG. OR REFERS TO	
				AFCIN-88302	
FROM:				AFCIN-4E2x	
ATC, W-P AFB				IC-41684	
TO:				CLASSIFICATION OF REFERENCE	
COFS USAF WASH DC				SECRET	
FROM: AFCIN -4E2x IC-41753				SPECIAL INSTRUCTIONS	
YOUR MSG AFCIN-88302 AND ATIC MSG AFCIN-4E2x IC-41684. IT IS 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				Classification Cancelled (or changed to) SECRET Auth <i>[Signature]</i> By <i>[Signature]</i> Date 9 MAY 1969 AFR 205-1, Para 2-17 a 2 Jan 68	
SYMBOL		TYPED NAME AND TITLE (Signature, if required)		SIGNATURE	
AFCIN-4E2x		Major Robert J. Friend		<i>[Signature]</i>	
PHONE 69216		PAGE NR. 1		TYPED (or stamped) NAME AND TITLE	
SECURITY CLASSIFICATION		NR. OF PAGES 2		PHILIP G. EVANS	
UNCLASSIFIED		UNCLASSIFIED		Colonel, USAF	
				Deputy for Science and Components	

DD FORM 173
1 MAY 65

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

JOINT MESSAGEFORM - (C) INUATION SHEET

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 RESULTING 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 EXCEPT PRIOR TO
CATEGORY B ENCRYPTION—PHYSICALLY REMOVE
ALL INTERNAL REFERENCES BY DATE-TIME GROUP
PRIOR TO DECLASSIFICATION

DOWNGRADED AT 5 YEAR INTERVALS,
DECLASSIFIED AFTER 12 YEARS.
DDI DIB 62-010

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SYMBOL

AFCTN-4E2x

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SECURITY CLASSIFICATION

INITIALS

DD FORM 173-1 MAY 55

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