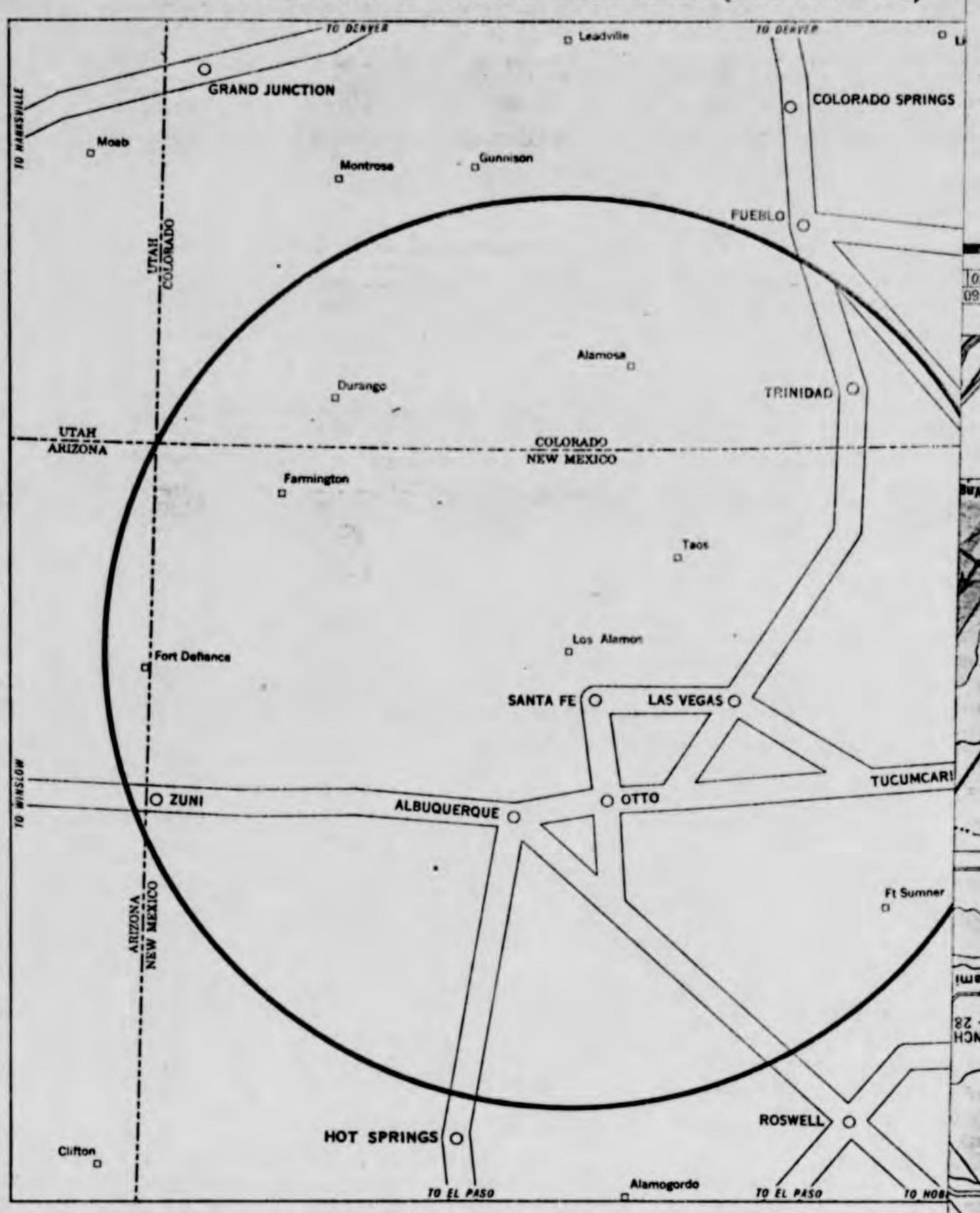
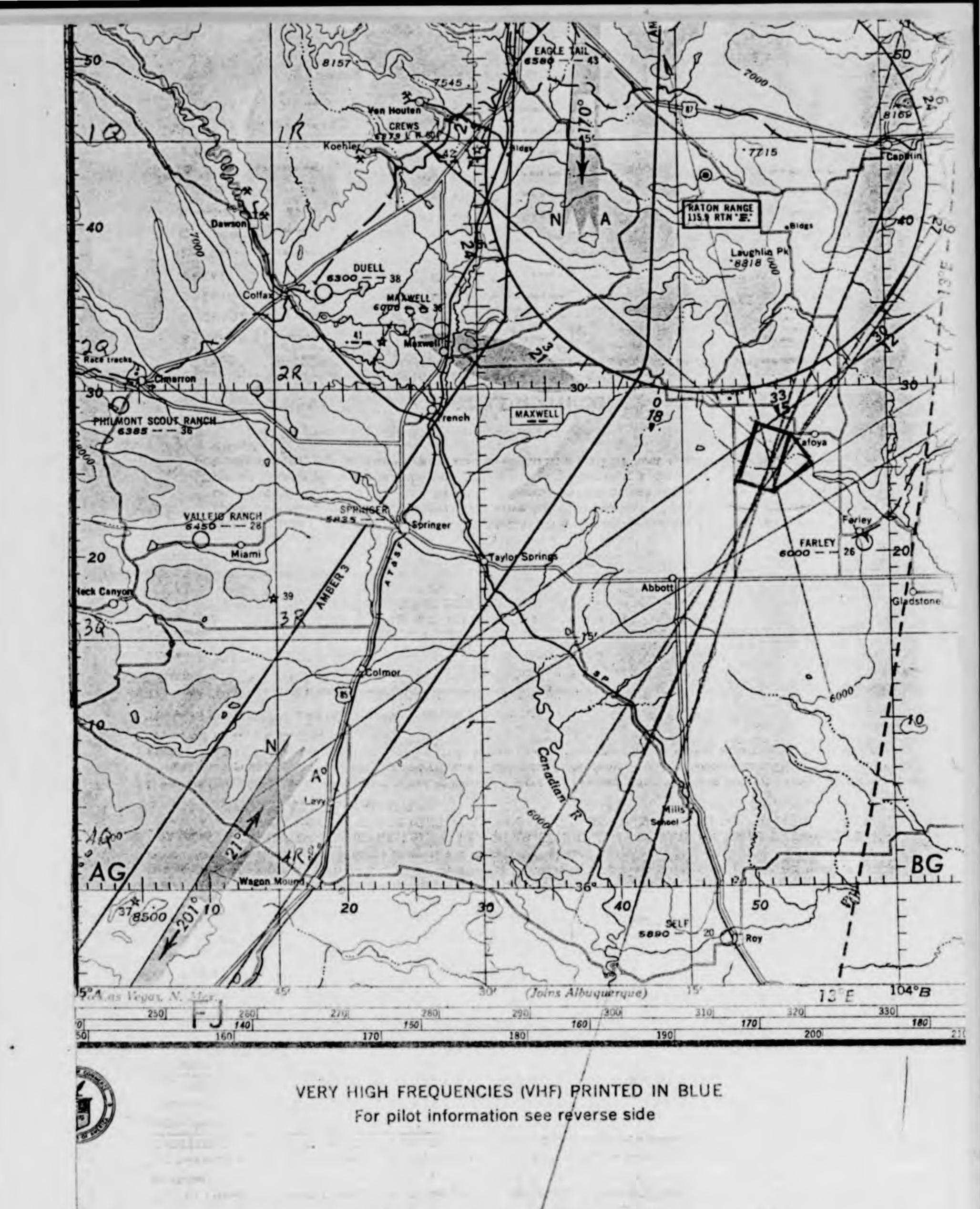
PROJECT 10073 RECORD CARD

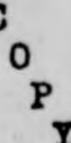
1. DATE () () () () () () () () () (2. LOCATION Albuquerque, N	ew Mexico	D W			
3. DATE-TIME GROUP Local 1434 GMT 06/2134Z	4. TYPE OF OBSERVATION	II W	Was Aircraft Probably Aircraft			
S. PHOTOS O Yes Xo No	6. SOURCE Civilian		D P	[] Probably Astronomical		
7. LENGTH OF OBSERVATION Not Reported	8. NUMBER OF OBJECTS	9. COURSE Not Reported	0 1	☐ Insufficient Data for Evaluation		
Reports gathered by Dre this object with purpos recovery of portions as landed.	se of attempted		Maxwell AFB, Alabama	, not UFO	· 1702-2012-	
				According to the second second	Commission of the Commission o	

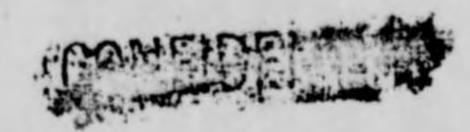
ALBUQUERQUE AIR DEFENSE AREA (LOS ALAMOS)



Effective Date March 15, 1950. In the interest of safety, all airmen proposing to fly within 150 nautic miles) of Los Alamos, New Mexico at an altitude greater than 10,000 feet MSL or more than 4,000 feet terrain, whichever is higher, are encouraged to file flight plans, preferably IFR, with the appropriate C to do so may result in in-flight identification by fighter aircraft. THE EXISTING PROHIBITED AMEDIATE VICINITY OF LOS ALAMOS REMAINS OUT OF BOUNDS FOR ALL AIR TRAFFS







UNCLASSIFIED

PROJECT TWINKLE

FINAL REPORT

L. ELTERMAN

27 November 1951

APPROVED:

P. H. WYCKOFF Chief, Atmospheric Physics Laboratory



DOWNGRADED AT 3 YEAR INTERVALS; DECLASSIFIED AFTER 12 YEARS. DOD DIR 5200.10

UNCLASSIFIED



6 Mar. 1951 - Report from four Los Alamos personnel of very bright
object crossing sky. Also observed by two Kirtland AFB
pilots who reported this as a meteor; time - 14:30; reported
by Dr. La Paz to be a detomating fire-ball. No fragments
recovered.

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DEPARTMENT OF THE AIR FORCE HEADQUARTERS UNITED STATES AIR FORCE

WASHINGTON

THE INSPECTOR GENERAL, USAF

STH DISTRICT OFFICE OF SPECIAL INVESTIGATIONS
WRIGHT-PATTERSON AIR FORCE BASE, DAYTON, OHIO

IN REPLY REFER TO: 5D 24-0

WRIGHT-PATTERSON AIR FORCE BASE, DAYTON, OHIO

26 March 1951

SUBJECT:

Anomalous Luninous Phenomena

The Fireball of 1951, March 6, 14:34

TO:

Commanding General Air Materiel Command

Wright-Patterson Air Force Base

Dayton, Ohio

The attached Spot Intelligence Report, dated 21 March 1951, and copy of letter to Headquarters OSI, dated 22 March 1951, are forwarded for your information and any action deemed appropriate.

2 Incls

1. Spt Intl Rpt dtd 21 Mar 5

2. Cy of ltr to Hq OSI, dtd 22 Mar 51 JAMES F. X. O'CONVELL

Colonel, USAF District Commander

Copy to: Hq OSI w/o abv incls Jant Control

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HEADQUARTERS UNITED STATES AIR FORCE WASHINGTON

EIRTLAND AIR FORGE BASE, NEW MEXICO

File No: 24-0

21 March 1951

SPOT INTRILIGENCE REPORT

SUBJECT:

Anomalous luminous phenomena

The fireball of 1951, March 6, 14:34

TO:

Director of Special Investigations Headquarters, United States Air Force Washington 25, D. C.

Although this incident does not fall within the purview of AFCSI Letter No. 85, dated 23 October 1950, nevertheless, the publicity incident to this matter and the search conducted by Dr. LINCOLN LAPAZ, Director Institute of Meteoritics, has been such that it is believed the facts adduced will be of interest, and in accordance therewith distribution is being accomplished.

- 1. SYMOPSIS: An anomalous luminous phenomena occurred 6 March 1951 at approximately 14:34 hours. The reports of this phenomena were gathered by Dr. LINCOLN LAPAZ, and a search was made to determine whether or not there were resultant physical evidence of a meteorite. The physical evidence of a meteorite, if such was a meteorite, has not been discovered. Visual observations have been reduced to points of intersection covering an approximate rectangular area three (3) miles by six (6) miles and within an area contiguous to Tafoya, New Mexico. Search continues by LAPAZ.
- 2. DETAILS: Dr. LINCOLN LAPAZ, Director, Institute of Meteoritics, University of New Mexico, Albuquerque, New Mexico, gathered all available sighting data of the phenomena and has attempted to recover any physical residuary evidence as more particularly delineated in a report of Dr. LAPAZ:

"The March 6 fireball is the last in the long series of incidents occurring in northeastern New Mexico and the closely adjacent portions of Texas and Colorado. Of this series, only three fireballs produced any acoustic phenomena and, therefore, were initially regarded as almost certainly detonating meteorite falls. The first of this trio was the fireball of January 30, 1949 in the Amarillo-Lubbock region, which was the subject of intensive study by the O.S.I. and the Institute of Meteoritics and other interested agencies. In spite of the fact that the area of fall was speedily and accurately located and that this area was not only searched for several weeks immediately after the fall, but also has been repeatedly

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File 24-0 Subj Anomalous luminous phenomena

21 Mar 51

"searched since, no meteoritic fragments have been recovered to date.

The second of the tric was the detonating fireball of December 4, 1949 in the Campo, Colorado region, from which, in spite of long continued careful search, no meteorites have been recovered. The fireball of March 6 completes the tric and bids fair to conform to the pattern set by the two earlier falls, in that searches initiated in the accurately delimited area of fall within 24 hours after the appearance of the fireball have discovered no meteorites to date.

"The detonating fireball of March 6 was of exceptional magnitude, rivalling the record-breaking meteorite fall of 1948, February 18 in Kansas and Nebraska, from which over a thousand fragments have been recovered, in the intensity of the light and sound effects produced. The fireball of March 6 was seen at a distance of 140 miles by an observer crossing glaring snow-fields in bright sunlight. As regards the remarkable sound phenomena produced on March 6, they have been so fully reported on by the news agencies as to require no comment here. Transit measures on carefully made observations of this fireball indicate that it remained luminous to a very low level in the atmosphere. Hence, if it were a normal meteorite fall, the probability would be very great that solid masses survived to fall to the earth. Furthermore, because of the great size and luminosity of the fireball, it seems likely that the largest surviving masses would be of such size as to punch out easily visible craters in the earth. Yet in this, as in the two earlier cases, no trace either of meteorites or of the effect of meteoritic impact on the earth has been found.

"In view of the very puszling nature of the three major incidents discussed above (and of many other unexplained minor incidents of similar nature), I wish to repeat the recommendation I made in the case of the Lubbock and Campo fireball falls, namely, that the O.S.I. arrange to secure photographic coverage of the area in which fragments from the March 6 fall should have landed. (Preferably the photo-reconnaissance missions should secure stereo coverage of the sort obtained for us in the Four Corners region under the direction of Colonel James C. Tison, Eq. USAF, DCS/Opns, Photo and Reconn.)

"After a careful study has been made of the photographs of the fall area (an elliptical region with axes of 8 and 5 miles, respectively, the major axis extending from (about) Lat. 36° 24°, Long. 104° 10° to Lat. 36° 31°, Long. 104° 6°, see Trinidad (5-4) Sec. Aero. Chart), it is strongly recommended that sufficient air force personnel be assigned to ground search to insure exhaustive search of all areas in which meteoritic impact appears to have occurred.

"In making these recommendations, I am chiefly influenced by the possibility that the fireballs in question may not be meteoritic in nature. However, in the event that my first judgment is confirmed by recovery of

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File 24-0
Subj Anomalous luminous phenomena

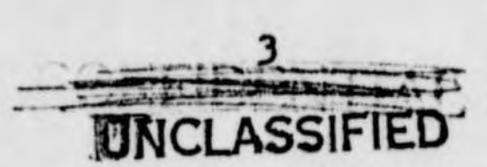
21 Mar 51

"meteorites when more exhaustive air and ground search is made, I do not feel that the effort expended by the Air Force in conducting such searches would have been wasted. Meteorites recovered soon after their fall have, at present, a military value far in excess of the scientific importance they have always had...."

3. ACTION: This District Office is not taking any action other than forwarding this report in accordance with AFCSI Letter No. 85, dated 23 October 1951. In the event that there are any new developments of consistent facts pertaining thereto, they will be forwarded in accordance with the distribution of this report.

1 Incl Sect Aero Chart (S-4)

ce: AMC (dup) w/incl AFSWC RICHARD G. COX Lt. Col., USAF District Commander



AIR MAIL

THE INSPECTOR GENERAL USAF THE DISTRICT OFFICE OF SPECIAL INVESTIGATIONS KINTLAND AIR FORCE SASE, NEW MEXICO

File No: 24-0

22 March 1951

SUBJECT: An

Anomalous Luminous Phenomena

Fireball of 1951, March 6, 14:34

TOS

Director of Special Investigations Headquarters, United States Air Force

Washington 25, D. C.

1. Reference is made to the attached Spot Intelligence Report, subject as above, dated 21 March 1951.

- 2. Dr. LINCOLN LAPAZ is of the opinion (see third paragraph of Dr. LAPAZ's statement, attached report) that a photographic coverage of the area in which fragments from the March 6 fall should have landed may produce data of value to the Air Force. The 17th District USI has not expressed an opinion concerning this matter but contact was made with Headquarters, Special Weapons Command, in an attempt to secure photographic coverage. The Director, Security and Intelligence, Special Weapons Command, after a check of his facilities, informed this office that such a mission could not be accomplished by his Command due to a shortage of equipment and personnel.
- 3. Reference the fourth paragraph of LAPAZ's statement, attached report; this office has informed Dr. LAPAZ that the 17th District OSI does not concur in the recommendation that Air Force personnel be assigned to ground search in the areas in which meteoritic impact appears to have occurred.
- 4. The attached report is forwarded for your information and review. It is requested that this District be informed if your Headquarters deems it advisable to secure photographic coverage of the area as outlined on the attached map.

1 Incl
Spot Intel Ept, 21Mar51,
W/1 Incl thereto

RICHARD G. COX Lt. Col., USAF District Commander

cc: AMC



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10-7-2

PILOTS GUIDE FOR COMMUNICATING WITH AIRWAY STATIONS

PILOTS - never hesitate to use your radio. Remember that talking by radio is almost the same as talking on your home telephone.

The following are typical examples of two-way communication with airway stations.

IDENTIFICATION OF AIRWAY STATIONS: CAA Airway Communications Stations are identified by the name of the station followed by the word "RADIO".

Example: "CLEVELAND RADIO".

IDENTIFICATION OF AIRCRAFT: Your aircraft is identified by the make of aircraft followed by the certificate number and letter suffix, if any.

Example: "STINSON ONE THREE SIX FIVE".

"STINSON ONE THREE SIX FIVE-Y".

Example of pilot calling an airway station:

"CLEVELAND RADIO - THIS IS - STINSON ONE THREE SIX FIVE - OVER"

After communication has been established, an abbreviated form of identification may be used, if desired, using the last three units of the certificate number only.

The airway station will normally answer on the radio range or radiobeacon frequency. If reply is desired on other than the radio range or radiobeacon frequency, pilots should indicate the frequency on which the station reply is expected.

Example: "CLEVELAND RADIO - THIS IS - STINSON ONE THREE SIX FIVE - REPLY ON ONE ELEVEN POINT ONE MEGACYCLES - OVER".

After the airway station has answered your call, proceed with your message without further call up other than preceding the message with the aircraft identification. Your message may consist of your position report, a request for weather data or other information that may be required to assist you to your destination.

Example: "STINSON ONE THREE SIX FIVE - OVER CLEVELAND AT ELEVEN TWENTY - FOUR THOU-SAND FEET ON VFR FLIGHT PLAN FROM YOUNGSTOWN TO TOLEDO - WHAT IS THE WEA-THER AT TOLEDO - OVER".

If you are flying VFR, a position report is not required, however, it is to your advantage that the stations along your route of flight know your position at all times in order that assistance can be rendered should you encounter difficulty.

Flight plans may be filed while in flight, with a CAA Airway Communications Station, if your departure was from an airport not served by such a station.

The word "ROGER" is used to acknowledge receipt of a message.

The word "OUT" is used when a conversation is ended and no response is expected.

Example: "STINSON ONE THREE SIX FIVE - ROGER, OUT".

The words "SAY AGAIN" are used if a message was not understood and a repetition is desired.

The words "STAND BY" are used to indicate that a return call will be made as soon as practicable.

Examples: "STINSON ONE THREE SIX FIVE - SAY AGAIN, OVER".

"STINSON ONE THREE SIX FIVE - STAND BY".

ENROUTE FLIGHT SERVICE

All airway communications stations are ready to provide pilots with enroute flight information or assistance at any time. You may call any CAA RADIO for latest weather along your route of flight, upper wind velocities, airport conditions, and other flight information. If you become lost or uncertain of your position, call any CAA RADIO. Personnel at CAA airway communications stations are trained to assist pilots in establishing position by any of the following methods: (a) Visual reference to terrain features; (b) Low frequency radio range orientation; (c) VHF omni-range indications (triangulations).

RADIOTELEGRAPH CODE

A-ABLE	N-NAN	0-ZEE-ROH
B-BAKER	0-0B0E	1-WUN
C-CHARLIE	P-PETER	2-T00
D-DOG	Q-QUEEN	3-THU-REE
E-EASY .	R-ROGER	4-FO-WER
F-FOX	S-SUGAR	5-FI-YIV
G-GEORGE	T-TARE -	6-SIKS
H-HOW	U-UNCLE	7-SEV-VEN
I-ITEM	V-VICTOR	8-ATE
J-JIG	W-WILLIAM	9-NI-YEN
K-KING	X-XRAY	
L-LOVE	Y-YOKE	
M-MIKE	Z-ZEBRA	