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Rader .	GPU-D Up to 1500 MPH Mediane
(f)	AIMTTUDE Up to 45,000 th assets
Erratic	- LPROTH OF THE OBSERVED
	TYPE OF CHICKMATION Radar Scope
sets. Object va	Object was observed in the area of Solf- ridge AFB for several hours by two radar s in erratic flight. Analysis by radar station
To the dary ArIC Form 329 personnel is dou	btful if return was due to phenomena. Size comparable to R-36. BALLOBY

HEADQUARTERS
CONTINENTAL AIR COMMAND
MITCHEL AIR FORCE BASE, NEW YORK

by Auth: CG Jonac by Auth: CG Jonac The Jacks (Date) (Initials)

INT 373.5 (E)

SUBJECT: Unidentified Flying Object

503.6

TO: Director of Intelligence, Headquarters United States Air Force, Washington 25, D. C.

- 1. Attached for your information are two narrative reports concerning radar sighting of an unidentified flying object.
- 2. The fact that the object was sighted on the scopes of two (2) radars is considered worthy of special note.
- 3. Comment of technical experts, this headquarters, was solicited and is quoted in part for your consideration:
- "While it is relatively well known that various ionospheric conditions cause reflections at lower frequencies, it is usually considered that these layers have no effect at the frequencies used by the two radar sets mentioned except when temperature inversion or other atmospheric or tropospheric conditions cause ducting and spurious reflections. Presuming that such idealized conditions existed at the time of these observations, it is conceivable that an actual small change in physical lateral motion in reference to the radar set could cause a seemingly greater change in relative position of the 'object' as observed on the radar scope due to the varying path lengths the radar energy takes to and from the 'object' as a function of the frequency sensitive layers and angles of incidence of the propogated wave. However, the great difference in the frequencies of the L-Band CPS-5 and the S-Band CPS-4 radar sets and the evident correlation of observations between these two sets almost rule out the possibility of anomalous propagation effects. Further, the magnitude of the velocity and accelerations of the three dimensional movements of the 'object' reported are beyond the capability of known heavier or lighter than air vehicles in controlled flight.
- b. "Also substantiating this unlikelihood, is the fact that the 'object' was reported as remaining stationary in free space for a mean-period of two minutes.
- c. "Further validity is lent to the contention of the reports by statements that first indications, which were at high altitudes, were

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INT 373.5 (E), "Unidentified Flying Object", (cont)

observed on the CPS-4 height-finder before being observed on the CPS-5 surveillance radar set. This follows logic and field experience, inasmuch as the high altitude coverage of the CPS-5 is known to be poor and the antenna is not capable of being automatically tilted as in the case of the CPS-4 on which the controller may tilt the antenna within wide limitations to observe any high altitude or high angle objects. It is to be noted that previous field experience with a CPS-5 surveillance radar set has indicated that targets picked up at ranges and altitudes indicated in subject report would probably have a reflection aspect ratio in the order of magnitude of a B-29 or greater.

- d. "In the absence of detailed vertical and horizontal coverage charts for the specific radar sites and comprehensive weather reports for the area during the period of time these observations were noted, a more complete study or evaluation at this time is not feasible.
- e. "In summary, no known electronic phenomena, nor combinations of several electronic phenomena could conceivably produce all of the observations covered by the attached reports."
- 4. The frequency of reports of this nature has recently increased; instructions have therefore been directed to all radar installations within this command to report scope sightings of unusual objects.
- 5. It is recommended that reports of unidentified object sightings be reconsidered for submission from all Zone of Interior Air Force agencies.

FOR THE COMMANDING GENERAL:

Incla

1. Report of 1st Lt. F.E.Parker

2. Report of 1st Lt. F.K.Mattson

Neaegoranni Neaegoranni Coloner, USAF Air Adjutant General

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NARRATIVE REPORT OF

1ST LT FRANCIS E. PARKER, AC 743 489, 661ST AC & W SQ, GCI STA COLDR,
SELFRIDGE AFB, MICHIGAN

On the night of 9 lar 50, our radar station was in operation monitoring night flying by units of the 56th Fighter-Interceptor Group, Selfridge AFB, Mich. I came on duty approximately at sundown, relieved 1st Lt Lattson at the FPI scope (of the AM/CPS-5 Radar Sight), and established contact with the F-SO's already airborne. Lt Mattson, Sgt McCarthy, and Col Melton, who made up the rest of our crew for this night, mentioned to meat this time that an aircraft had been picked up intermittently on the HRI scope of the AMC/CPS-4 height finder radar at 45,000 feet and over. I knew the highest assigned altitude of the F-80's was 24,000 feet; the target was not at that time visible on either radar scope, so I attributed the report of the high flying aircraft to interference, crew inexperience, or both. Over the next fifteen minutes the rest of the crew, mentioned above, repeatedly reported this high flying target at apparently rapidly changing altitudes without my being able to turn around rapidly enough from my monitoring of the F-30's in the area to observe for myself. Finally, however, I saw this target which was a very narrow and clear-cut presentation on the IRI scope. It was at approximately 47,000 feet about seventy (70) miles out, and the indication was definitely not that of a cloud or atmospheric phenomena. I checked pilots in the area by VHF and was assured by F-80 pilot at the highest assigned altitude that he was at 24,000 feet. The clarity, narrowness, and definition of the presentation was definitely that of an aircraft. The target gave a similar presentation to that given by an F-80, and if anything, narrower. It was definitely at this time not presenting a very large reflecting . surface towards our station and I could not at this time pick up the target on the CPS-5, ruling out B-36 or other large aircraft. Further indications of this aircraft were picked up intermittently but with increasing regularity for the next 45 minutes or an hour, and entries were made of these occurrences in the controller's log by Sgt McCarthy. Unfortunately, however, the times on this log, though relatively fairly correct, are inaccurate, due to the extreme inaccuracy of Sgt McCarthy's watch. During this period, approximately 1945 to 2030, this target seemed to stay in the area in which our fighters were flying, sometimes approximating their courses, but 20,000 feet above them. During this same 45 minute period, Lt Mattson and other members of the crew reported, both from the HRI scope of the ANC/OPS-4 and another PPI scope of the AN/OPS-5, that

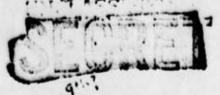
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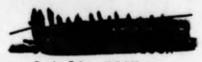


The second experience was as follows. I went on duty as Controller at 1830, 8 March 1950. At 1948 hours a blip was pointed out to me that was at 270°, sixty-eight (68) miles, 40,000 feet (measured by the RI scope). We (Cpl and I) watched this blip and it did not move for three (3) minutes, then faded. At 2002 hours the target was picked up again and it was at 40,000 feet, lateral movement was detected in a northeasterly direction; at this time I estimated the speed at 1,500 m.p.h. At 2006 hours a target appeared at 350°, fifty-sight (58) miles at 45,000 feet. There were four (4) jet aircraft flying in the local area at this time at 24,000 feet and the altitude of the jet aircraft on a bearing of 3400, thirtyeight (38) miles, was checked at 25,000 feet on the RI scope, the pilot stated that he was flying at 24,000 feet. This lends support of the accuracy of the FRI scope. The strange object faded after one minute. Captain Management and Ltansamer came in and I left the radar scopes.

At 2020 hours I returned to the HRI scope to see an object at 350°, thirty-eight (38) miles climb from 30,000 feet to 45,000 feet in one (1) minute, with no lateral movement detected. I went off duty and left the GCI room at 2025 hours.

On the first occasion it was cloudless, moderately bright moonlight night, with a light haze; on the second occasion, it was clear with unrestricted visibility and no moon.

I am 27 years of age and have been a rated pilot in the USAF since Cotober 1942, having over 2,900 hours flying time. I have had seven (7) months experience as a Radar Controller.



1st Lt. USAF

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COORDINATION UNCLASSIFIED Department of the Air Force HEADQUARTERS UNITED STATES AIR FORCE 5D-OSI/DML/fmn ADJUTANT GENERAL Washington 5D 24-21 14 March 1950 SUBJECT: "PROJECT GRUDGE" Unconventional Type 'ircraft (Unexplained "Flip" on Radar Scopes Caused by EF OF ADMIN. Metallic Targets) SPECIAL INQUIRY AIR INSPECTOR TO: Commanding General Air Materiel Command Wright-Patterson Air Force Bese PUBLIC RELATIONS Dayton, Ohio ATTN: MCIAXS JUDGE ADVOCATE The attached copies of a spot report regarding the above subject. dated 10 March 1950, are forwarded for your information and file. Incl /s/ JAMES F. X. O'CONNELL Spot Rpt dtd 10 Mar 50 Lt Colonel, USAF (T-2) (in dup) District Commander ENGINEERING (T-3) lst Ind MCIAXA-1/JJR/ed Beadquarters AMQ, Wright-Patterson AFF, Dayton, Chio. The Inspector General, ISAF, 5th District Office of Special Investigations, Fright Patterson AFB, Dayton, Ohio. 101 1. This Command is desirous of further information from the stand-(7-5) Point of radars PLANS Would like to know the type of radar equipment used. b. Also would like to know what the meather conditions (in detail) were during the period in question and immediately preceding. BASE C. O. c. Did fighter planes observe anything unusual, or did they report any unusual turbulence in the area? DOWNGRADED AT SAFER INTERVALS: DECLASSITIED ATTIK 12 YEARS. OTHER FOR THE COMMANDING OLA "A": UNCLASSIFIED DOD DIR 5200.10 Incl --- HAROL) E. ATSON Colonel, USAF n/c WF-L-8 NOV 45 500M Chief, Intelligence Dept

HEADQUARTERS UNITED STATES AIR FORCE

WASHINGTON

THE INSPECTOR GENERAL, USAF STH DISTRICT OFFICE OF SPECIAL INVESTIGATIONS

IN REPLY MEPER TO: 50 24-21

WRIGHT-PATTERSON AIR FORCE BASE, DATTON, OHIO 14 March 1950

5D-OSI /DAIL/from

SUBJECT:

"PROJECT GRUDGE" Unconventional Type Aircraft (Unexplained "Blip" on Radar Scopes Caused by Metallic Targets) SPECIAL INCUIRY

TO:

Commanding Ceneral Air Materiel Command Wright-Patterson Air Force Base Dayton, Ohio ATTN: MCIAXS

1AXA

503.14

The attached copies of a spot report regarding the above subject, dated 10 March 1950, are forwarded for your information and file.

1 Incl Spot Rpt dtd 10 Mar 50

(in dup)

JAMES F. X. O'CONNELL Lt Colonel, USAF District Commander

1st Ind

MCIAXA-1/JJR/ed

Headquarters AMC, Wright-Patterson AFB, Dayton, Chio.

- TO: The Inspector General, USAF, 5th District Office of Special Investigations, Wright-Patterson AFB, Dayton, Ohio.
- 1. This Command is designous of further information from the standpoint of radar:
 - a. Would like to know the type of radar equipment used.
- b. Also would like to know what the weather conditions (in detail) were during the period in question and immediately preceding.

ANALYSIS DIVISION FILE 4. Did fighter planes observe anything unusual, or did they report any unusual turbulence in the area? DOWNGRADED AT

FOR THE COMMANDING GENERAL:

FILE NUMBER JJR 3-21 1 Incl

HAROLD E. WATSON Colonel, USAF

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Chief, Intelligence Dep

The Thupsotor Coneral USAF 25th District Office of Special Investigations Box 326, RPA, Detroit 32, Michigan

10 March 1950

SPOT INTELLIGENCE REPORT

SUBJECT: Unconventional Type Aircraft

(Unexplained "Blip" on Radar

Scopes Caused by Metallic Targets)

TO: Director of Special Investigations
Headquarters United States Air Force

Washington 25, D. C.

ATTM: Counter Intelligence Division

- 1. SYMOPSIS: lot Lt. FRANK K. MATTSON, AO-926313, Radar Operator and Controller, 661st AC & W Squadron, Salfridge Air Force Base, Mich., and 1st Lt. FRANCIS E. PARKER, AO-743669, same duties, same organization, did on 9 March 1950 observe in radar scopes unexplained "Blip". The "Blip" acted in a peculiar manner. It was assumed by MATISON and PARKER that the unidentified "Blip" was of an unconventional type sircraft. Observations of "Blip" also recorded by enlisted personnel on duty during the concerned period of time.
- 2. DETAILS: Lt MATTSON was on duty with the 661st Radar Section on 9 March 1950 to control the positions of local jet alreraft. Observations and control more normal until approximately 1948 hours, at which timo MATTSON observed a "Blip" on the "IRI" scope at approximately 40,000 feat, range and azimuth holding steady at 270°, 65 miles. "Blip" was brilliant for a few seconds, then faded, and came back at a different location approximately five (5) minutes later. At this time other radar operators observed the "Blio" and questioned it. The estimated speed, which was not well founded but assumed to be about 2500 miles per hour, is a combination of vertical speed and horizontal speed based on various vectors dorived from the instruments. The "Blip" was observed when picked up the second time to move laterally to a bearing of 345° and was observed to be consistent for about three (3) minutes with the "PPI" scope. MATTSON, during this period of time, did not record the inforration in a log. However, his curiculty caused him to contact various jet fighters in the area to determine their altitude, bearing, and spend so it could be used as a domble check on the radar scope. MATTSON than left the Rader Room and turned over controller work to



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Subject: Uncommentional Type Aircraft (Unaxplained "Blie" on Rader Scores Caused by Metallic Targets)

10 Mar 50

Lt. PARKER. TA. PARKER requested that the rader crows record in the log various readings and coordinate the various scopes. When PARKER's arow first observed the unidentified "Blip", he noticed a very definite rapid decrease in altitude on "REL" scope to about 15,000 feet. The time was not noted. The "Blip" was again picked up at approximately 2016 hours on the "PPI" scope.

circle divided into four (h) equal quadrants, the first quadrant, i.e., c to 90° being Zone 1, 90° to 180° Zone 2, 180° to 270° Zone 3, and 270° to 360° Zone h, the radar lines being cardinal directions — north, east, south and west. Some of the entries from the "PPI" scape log reveal at 2016 hours, 156°, 15 miles, phanton aircraft; 2017 hours, 151°, 49 miles, phantom aircraft; 2016 hours, 150°, 56 miles; 2050 hours, 159°, 67 miles; 2051 hours, 156°, 75 miles; 2052 hours, 133°, 79 miles. The readings of "MRI" scape log reveal at 2105 hours, 180°, 32 miles, 15,000 feet; 2106 hours, 175°, 36 miles, 21,000 feet; 2107 hours, 165°, 36 miles, 25,000 feet; 2108 hours, 160°, 39 miles, 27,000 feet; 2109 hours, 157°, 14 miles, 27,000 feet; 2110 hours, 153°, 15 miles, 35,000 feet; 212 hours, 116°, 51 miles, 35,000 feet; 2115 hours, 110°, 56 miles, 35,000 feet; 2116 hours, 110°, 60 miles, 36,000 feet; 2115 hours, 129°, 70 miles, 38,000 feet. The "Blip" was then lost for a period of time, however, at various times throughout the evening, a one (1) to three (3) second observation was made of the unidentified "Blip".

Both PARKER and MATTSON are agreed that the approximate size of the unidentified "Rip" would be similar to a 3-36 and that the "Dlip" at times apparently was following the vectors of various jet flighters in Zones 2 and h. PARKER and MATTSON also believe that the erratic vertical readings could be deliberate on the part of the "Blip", as it appeared to occur after the radar would hold steady on the "Blip" for a period of several seconds to a minute or so. MATTSON and PARKER Another estimated speeds to be from 120 miles an hour horizontal to 2500 miles per hour vertical. They observed more activity to be in vertical readings, MATTSON and PARKER explained that the Reday Observation Room was in total darkness and the readings on the logs for the time olement concerned would vary and it was caused by the man maiding recordings to have his watch position wrong. Both PARKER and HATTSON recalled 15,000 feat altitude variations within a matter of seconds on the part of the unidentified "Blip". The rapid changes in vertical readings would coom between 30,000 and 45,000 feet. At one time, It. PARKER followed the unidentified "Blip" to a distance of 120 siles

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from the station in Zone 4 and in as close as 38 miles in Zone 4. Lt. MATTSON advised that on Friday, 3 March 1950, at approximately 2305 hours, after he had left a stag party in the Officers! Club and having had only one beer during the course of the evening, he had observed a yellowish light in the sky. MATTSON, at this time, was driving his car from the Officers' Club in the direction of the PK on Selfridge Air Force Bass. He slowed his car down and observed the light, the size and brilliancy undetermined but described to be the approximate color and size of an electric light within a house showing through a normal size window at a distance of about 50 to 75 feet on a dark night. The light was descending vertically over the Base and at first appeared to be a flare but, due to the color of the light, it was realized it could not have been a flare. MATTSON then stopped his car and chearved the light further. The light then proceeded westward holding the same azimuth for approximately 40 to 50 miles. The light then went southward approximately the seme distance, stopping and returning northward from the center kine of sight the same distance giving the north-south movement approximately 50 to 100 miles. This cooursed within four (4) minutes of time.

- 3. COMMENT: Persons furnishing this information appeared to be particularly sincers and interested.
- 4. ACTION: Two copies mailed through District Office No. 5 to Commanding General, Air Material Command, Wright-Patterson Air Porce Dase, Dayton, Ohio, AFTM: MDIA. Additional copies forwarded to:

5th OSI District (IG) (2)
Commanding General, Tenth Air Force (2)
Commanding Officer, 56th FighterInterceptor Wing, Selfridge AFB (2)
Commanding Officer, 541st ACCM Gp. (2)

R. S. RIFE Major, USAF District Commander

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