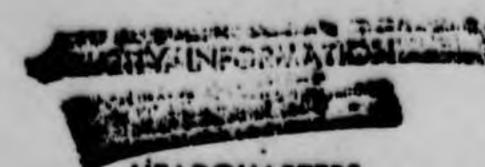
PROJECT 10073 RECORD			
i. DATE - TIME GROUP 21 September 50 2//45	2. LOCATION ENGINEERO DE COMPONIX Provincetown, Mass.		
3. SOURCE '. Civilian	10. CONCLUSION UNIDENTIFIED		
4. NUMBER OF OBJECTS One	Case is carried as Unidentified.		
5. LENGTH OF OBSERVATION	11. BRIEF SUMMARY AND ANALYSIS		
9 Minutes	See Case File.		
6. TYPE OF OBSERVATION			
Ground-Radar 7. COURSE			
Varied			
B. PHOTOS			
XX No			
9. PHYSICAL EVIDENCE			
D Yes			

FTD SEP 63 0-329 (TDE) Provious editions of this form may be used.

ESL 15082



UNCLASSIFIED

304

HEADQUARTERS SIGNAL CORPS ENGINEERING LABORATORIES FORT MONMOUTH, NEW JERSEY

Project 172B

ADDRESS REPLY TO

Commanding General

SUBJECT: Report of Flying Saucer Sighting

21 NOV 15

10:

Chief, Engineering and Technical Division Office of the Chief Signal Officer Department of the Army Washington 25, D. C. Attention: SIGGG-M

The attached report obtained from the Massachusetts Institute of Technology Weather Radar Research Group under Contract DA-36-039 sc-32038 with the Signal Corps Engineering Laboratories, is forwarded for your information and possible transmission to interested parties within the U.S. Air Force. Massachusetts Institute of Technology Weather Radar Research Group has been requested to treat this matter as "Restricted, Security Information" in accordance with AR 380-5. It is understood that this communication constitutes the first formal report on this occurrence.

& Incl.

1. Cy of ltr fm MIT dtd 6 Oct '52

2. MIT map dtd 21 Sep '50, 0950E EDWIN R. PETZING / Brigadier General, USA Commanding



THE REAL PROPERTY.

Weather Radar Research
Massachusetts Institute of Technology
Department of Meteorology

Room 24-520

3-6784

October 6, 1952

Director Evans Signal Laboratory, SCEL Belmar, New Jersey

Attention: Mr. William B. Gould
Meteorological Branch, Sferics Section

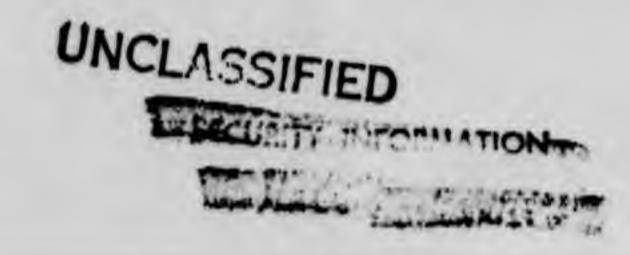
Dear Mr. Gould:

We have finally discovered our records covering the "Flying Saucer" incident of 21 September 1950. The incident came about in the following way:

We had arranged informally with the Air Weather Service group at Otis Field on Cape Cod to track a pair of jet aircraft (F-84's I believe) at 35,000 ft. in order to provide them with an estimate of their wind drift, and consequently winds aloft at that altitude. I have never understood why the group at Otis Field wanted us to do this, and don't in general approve of using our radar systems for operations completely disconnected with our regular line of work. This instance is, I believe, the only time we have had any such arrangement with a group at Otis Field.

We had established radio communications with the jet aircraft on our VHF. The first radar contact was made with the SCR-615-B at 45-mile range and 285° azimuth. As the accompanying plot shows, the F-84's were flying a straight and level course at 250 MPH indicated air speed towards the northwest (333°). About three minutes after radar contact, we noticed another aircraft signal which appeared to be flying a closing course with the F-84's. We notified the F-84 pilots by radio to watch out for the other aircraft which was closing on them from their left. At 4.0 minutes (all times being figured from the first radar contact) the two signals nearly merged, the "Saucer" crossing the track of the F-84's about three miles ahead of them; but the pilots of the F-84's reported that they were unable to see any aircraft. They further explained that there was a haze level below them and some light haze above, so that the visibility near their flight level may have been quite poor. The other aircraft did a very sharp turn of nearly 270° and again approached the F-84's on an intercepting course and closed with them, as far as we could tell by radar, at 5.0 minutes. Again the F-84 pilots were unable to see any other aircraft. The "Flying Saucer" then carried on straight towards Cambridge; but our radar operators, in attempting to track both the F-84's and the "Saucer" lost track of the "Saucer", continuing to plot the F-84's up to 9 minutes as indicated.

The signal strength from the two F-84's in close formation was approximately two-thirds saturation. The signal from the "Saucer" was saturated.



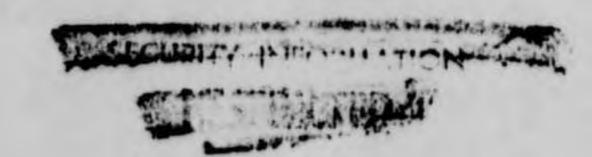
To: Director, EvantsSignal Laboratory, SCEL

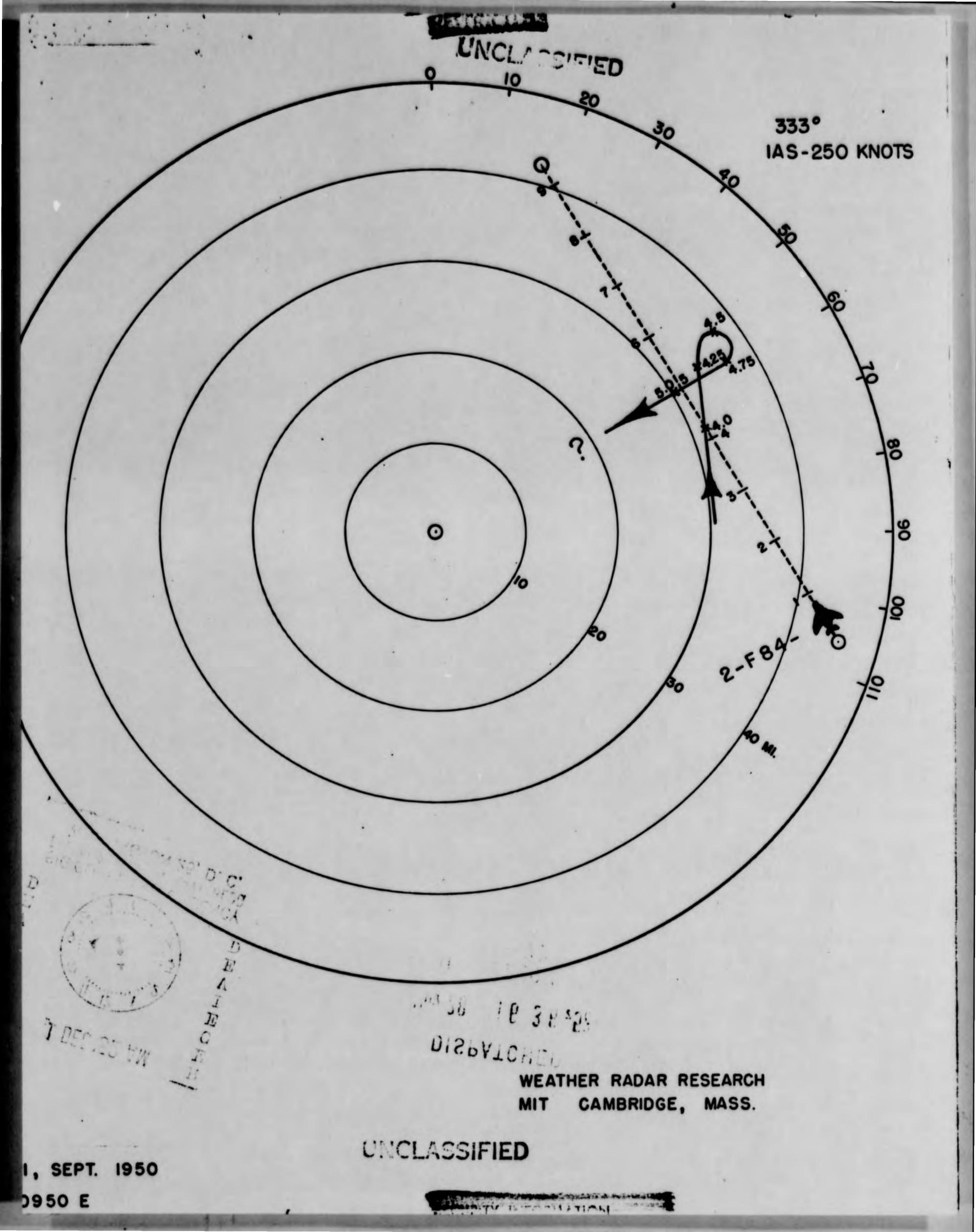
10/6/52

Our best estimate of the speed of the "Saucer" was 22 miles per minute. For approximately half of this one minute during which we were tracking it, it was engaged in its sharp turn. The acceleration in this turn comes out to be 11 or 12 G as well as we can figure it.

Later on that same day (21 September 1950) we received a telephone call from the Weather Officer at Otis Field (Major Tuttle) inquiring about our observations. After a brief conversation he asked us to treat the matter as "confidential" as far as any general publicity was concerned. The following day we had a visit from two men(from the Boston Office of Special Investigations, I believe) and we described to them what we observed essentially as it is described above. We have not reported this observation to any other group up to this date.

Very truly yours, WEATIER RADAR RESEARCH





DISPOSITION FORM

SECURITY CLASSIFICATION (IF ONE)
UNCLASSIFIED



FILE NO.

SUBJECT

SIGGG-M-1

Report of Flying Saucer Sighting

FROM CS1g0

COMMENT NO.

Commanding Officer

28 Nov 1952

Whedon/73909

Signal Corps Intelligence Agency Room 3052, Main Navy Bldg.,

Washington, D. C.

1. The attached report is forwarded for your information and for forwarding to Air Force Intelligence Agency.

2. It is understood that the Air Force treats information of this type with a high classification. If it is desired that M. I. T., under Signal Corps contract, consider this information as higher than Restricted Security Information, this office should be advised in order that appropriate directives may be prepared.

FOR THE CHIEF, ENGINEERING AND TECHNICAL DIVISION:

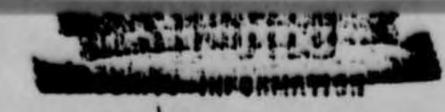
G. D. DECH Capt, Signal Corps

LUTHER E. JOHNSON, Lt Col, SigC Chief, Special Projects Branch

1 Incl: Ltr fm Hq, SCEL, 21 Nov 52, w/2 Incl



21 SUPT 50



DATE:

SIGIA-1C (28 Nov 52)
SUBJECT: Report of Flying Saucer Sighting

17 DEC 1952

Comment No. 2 Stilmar/66158/t1

AFOIN-2A2 THRU:

FROM: SCIA

Pentagon Annex 3

TO: Air Technical

Intelligence Center Wright Field, Ohio

1. Forwarded

2. Characteristics of the SCR-615-B radar set (frequency range 2750-2850 mc) are tabulated on page 404 of ATIC report Electromagnetic Radiation Data (No. TR-EL-20-2).

3. Your advice is requested as to issue raised in paragraph 2 of Comment No. 1.

JOHN V. MILLS, Colonel, Sig C Commanding

UNCLASSIFIED

S. M. F. . Ladaminaria Ting.



Ltr. DO #1, File No. 1D-OSI 24-0, dated 5 Oct 50, Spot Intelligence Rpt, subj: Unconventional Aircraft

2 Incls: ,
AMC Routing and Rcd Sheet
subj: Sighting of Unidentified Airborne Object
(1 cy)
Rpt of Sighting of Unidentified Airborne Object
by JOSEPH V. CONNELLY
(1 cy)

2 John Lassified RSB/RMJ/dm 1509

[Noclassified RSB/RMJ/dm 150

GETS, ISE

1D-03I 24-0-175

SPOT INTELLIGENCE REPORT

SUBJECT: Unconventional Aircraft

TO:

Director of Special Investigations

Headquarters USAF Washington 25, C.

1. SYNOPSIS: Unconventional aircraft reported sighted by Mass. Institute of Technology radar observer on 21 September 1950 between Provincetown, Mass., and The Isle of Shoals. (Evaluation F-2)

2 DETAILS: On 29 September 1950, Mr. 1 Research Associate, "Weather Radar Project" (U.S. Signal Corps Contract), Mass. Institute of Technology, advised this District that while tracking F-86 aircraft by means of radar, that an unidentified object was also tracked on the radar screen at approximately 0945 hours, 21 September 1950. In view of the apparent qualifications of as an observer, it was deemed advisable to interview and two other witnesses to obtain firsthand information as to the sighting. Report of interview conducted on 3 October 1950 by S/A THOMAS R. YANDOH is attached as inclosure #1. Inclosure #2 was provided by to S/A YANDOH. It was delivered to YANDOH by JOSEPH V. CONNELLY by whom written. In view of technical detail contained in inclosures #1 and #2, it is not considered necessary to summarize such information in this paragraph.

3. ACTION: In accordance with AFCSI Letter #85, dated 8 Feb 50, no further investigation is being conducted by this District Office.

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

UNCLASSIFIED

R. S. BOWER Colonel, USAF District Commander



1653.00

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SUBJECT Sighting of Unidentified Airborne Object

1D-0SI 24-

District Commander 1st District OSI (IG) USAF Westover AFB, Mass.

DATE 3 October 50 COMMENT NO. 1 Detachment Commander Detachment "B", 1st District OSI (IG) Rm. 826, 55 Tremont Street Boston, Mass.

Research Associate, Massachusetts Institute of Technology, Cambridge, Mass., was interviewed 2 October 1950 concerning his reported sighting of an unidentified airborne object on 21 September 1950. He has been with Massachusetts Institute of Technology as a Research Associate also holds the position of Staff Weather Officer with tho since 1946. 67th Fighter Wing, Massachusetts Air National Guard, and has worked with radar since 1943. His rank with the Air National Guard is that of Major and his serial number is

2. The following is an extract of a letter written by 27 September 1950 to a Major TUTTLE, Staff Weather Officer, 33rd Fighter Wing, Otis Air Force Base, Mass:

"An exceedingly puzzling event occured during the 3rd run when the planes were heading northwest at 30,000 feet. (see attached sketch). We picked up another plane (?) in the radar beam traveling about due north on a converging course toward the F 86's. It was moving very rapidly and I told the pilots about it, its range and direction from them. The echo caught up with, passed, and then crossed the course of the 86's, suddenly went into a very tight (for the speed) turn to the right, headed back toward Boston and passed directly over our flight. (perhaps went under). The sketch represents as closelyas we can remember, the relative positions of the two planes. Two other observers were with me at the time and we have checked over the facts rather closely. The pilots will undoubtedly recall the incident. They said they didn't see anything which is not too surprising considering the speed of the object and the fact that it may have passed several thousand feet above or below them and still looked like coincidence to the radar. Figuring conservatively, the speed of the object was approximately 1200 mph, and the centrifugal force exerted on the ship during the turn amounted to something more than five g's. It gave an excellent radar echo which could not be mistaken for anything else and in all respects except for the velocity seemed a normal radar target. It passed out of the beam while we continued to track our flight, but we focussed on it again for a few seconds shortly after and it was rapidly approaching Boston. We went back to the 86's since we hesitated to leave them for too long, but now I wish we had taken some accurate velocity measurements when we had the

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SUBJECT

Sighting of Unidentified Airborne Object

1D-05I 24-

District Commander
lst District OSI (IG)

Detachment Commander
Detachment "B"

DATE 3 Oct 50

(Cont'd)

"chance and taken the risk of losing the flight.

"The whole thing doesn't seem to make sense as you will discover when you reflect a moment about it. It was very evidentally an interception of some sort on our flight, but what? The turn was utterly fantastic, I don't think the human frame could absorb it, but if the object was radio controlled, it had no particular business flying on such courses on planes occupied on legitimate business. A few rough calculations concerning control surfaces, angles, etc. only adds to the puzzle that this object must have been entirely unconvention in many and basic respects. Perhaps the thing that bothers me the most is that it gave a very good radar echo, which implies irregular surfaces and comparitively large size, large enough so the pilots might have had a good chance to see it.

"It seems highly probable that I may be poking into something that is none of my business, but on the other hand, it may be something that the Air Force would like to know about if it doesn't already. I wish you would take the matter up with your intelligence officer or C.O. and get their reactions. The whole thing has us going nuts here and we don't know whether to talk about it or keep our mouths shut. Until I hear from you we will do the latter.

"Perhaps we could run another mission for the purpose of luring it out again and this time track it, or at least get your pilots close enough for a look- they'd never catch it I'm sure.

"There are many more little details which I haven't bothered to include concerning this -- mostly scope indications and such.

"Please let me hear from you soon.

Regards,

reported that he later discussed this matter with TUTTLE by telephone and TUTTLE advised him that the matter was to be considered confidential and that in all probability someone from Otis Air Force Base would contact him concerning it. To date, he has not been approached by anyone from the 33rd Fighter Wing.

Advised further that the information has not been released to the newspapers.

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Sighting of Unidentified Airborne ObjUNCLASSIFIED

1D-0SI 24-

District Commander 1st District OSI (IG) Detachment Commander
Detachment "B"

3 Oct 50

(Cont'd)

3. advised that the mission referred to in the extract set forth above consisted of two F-86 aircraft flying between Provincetown, Mass., north, to the Isle of Shoals. These aircraft were tracked and guided by and two associates who were operating an SCR 615-B Signal Corps Radar Unit at Bldg. 24 on the Massachusetts Institute of Technology campus. The purpose of this mission was to attempt to establish wind velocity and was done as a personal favor for TUTTLE. estimated the speed of the object sighted on both the 'R Scope' and the 'PFI Scope' at approximately 1320 miles per hour. The object was sighted at 0952 Eastern Standard Time at an altitude that could only be estimated to be between 25,000 and 30,000 feet or 30,000 and 35,000 feet. The two F-86's were flying at 30,000 feet, and it could not be determined on the radar screen whether the object was above or below the flight of F-86's. described the object's maneuvers as being a perfect interceptor pass. The attached 'Winds Aloft Computation Chart' indicates the course of the object, as outlined in ink. It will be noted that the object was last known to be heading towards the shore line in a direction that would permit it to pass over Salem, Mass. In connection with the 'Winds Aloft Computation Chart', the following information was given by LIGDA concerning his observations, as related to this chart:

- "1. Object first detected at about point A when F-86's were about at A, on converging course and rapidly overtaking F-86's.
- 2. Object crossed track of F-86's about two miles ahead of them, about at point B.
- 3. Object continued out to north, then began a turn to right crossing directly over or under F-86's at C and headed in toward Boston.

CERTAIN FEATURES

- 1. Crossing point at B was 22 miles ahead of F-86's.
- 2. Turn of object was to the right.
- 3. Object did not go over 39 miles (did not cross 40 mile range marker) from MIT.

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Sighting of Unidentified Airborne Object

1D-0SI 24-

District Commander 1st District OSI (IG) Detachment Commander Detachment "B" DATE 3 Oct 50 COMMENT No. 1 (Cont'd)

- "4. Object passed directly over or under F-86's (echoes merged on both R and PPI scopes).
- 5. Object was not a hydrometeor of any sort -- gave steady, solid echo of moderate strength.

UNCERTAIN FACTORS

- 1. Time between B and C believed to be about one minute and fifteen seconds (assumed 1 minute).
- 2. Radius of turn may be somewhat larger or smaller, but not appreciably.
- 3. Exact azimuths of points B and C may be £ 100."

advised that he was in touch with the pilots of the F-86 aircraft by VHF radio during the period the unidentified object appeared on the radar scope, and was later advised by the pilots that they had not seen the object. The following information pertains to the F-86 aircraft at approximately the time the unidentified object was sighted:

Run #3 Pressure altitude 30,000 ft.

Free Air Temp. - 20°C.

Indicated Air Speed, 250 MPH.

Corrected Air Speed, 420 MPH.

Time of Run, 537.6 seconds = .149 hr.

Length of Run, 62.5 Miles.

True Ground Speed, 419 MPH.

Compass Course 333°

Magnetic Course 330°

Corrected Course 3140

True Course 3290

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WE T 35 EED 40 4 MIL 940M

CONTINUE ON OTHER SIDE

This form replease AMC Form No. 10-3, which will be used until stocks on hand are exhausted.

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SUBJECT

Sighting of Unidentified Airborne Object

1D-031 24-

District Commonder 1st District OSI (IG) Detachment Commander Detachment "B" DATE 3 Oct 50

(Cont'd)

Analyst at the Weather Radar Project at Massachusetts Institute of Technology, and Dorchester, Mass., an Electronics Technician with the same project, were with the time the object was sighted and could add nothing to the information furnished by Both dvised that they had actually seen the object in the radar scopes and could verice as statements.

6. The names of the pilots flying the mission were not known.

7 Addrised that he had discussed with TUTTLE the possibility of running a similar mission in the near future in an attempt to gather additional data in the event the unidentified object should reappear. LIGDA regretted very sincerely his failure to use motion picture cameras that may be operated in conjunction with the radar set.

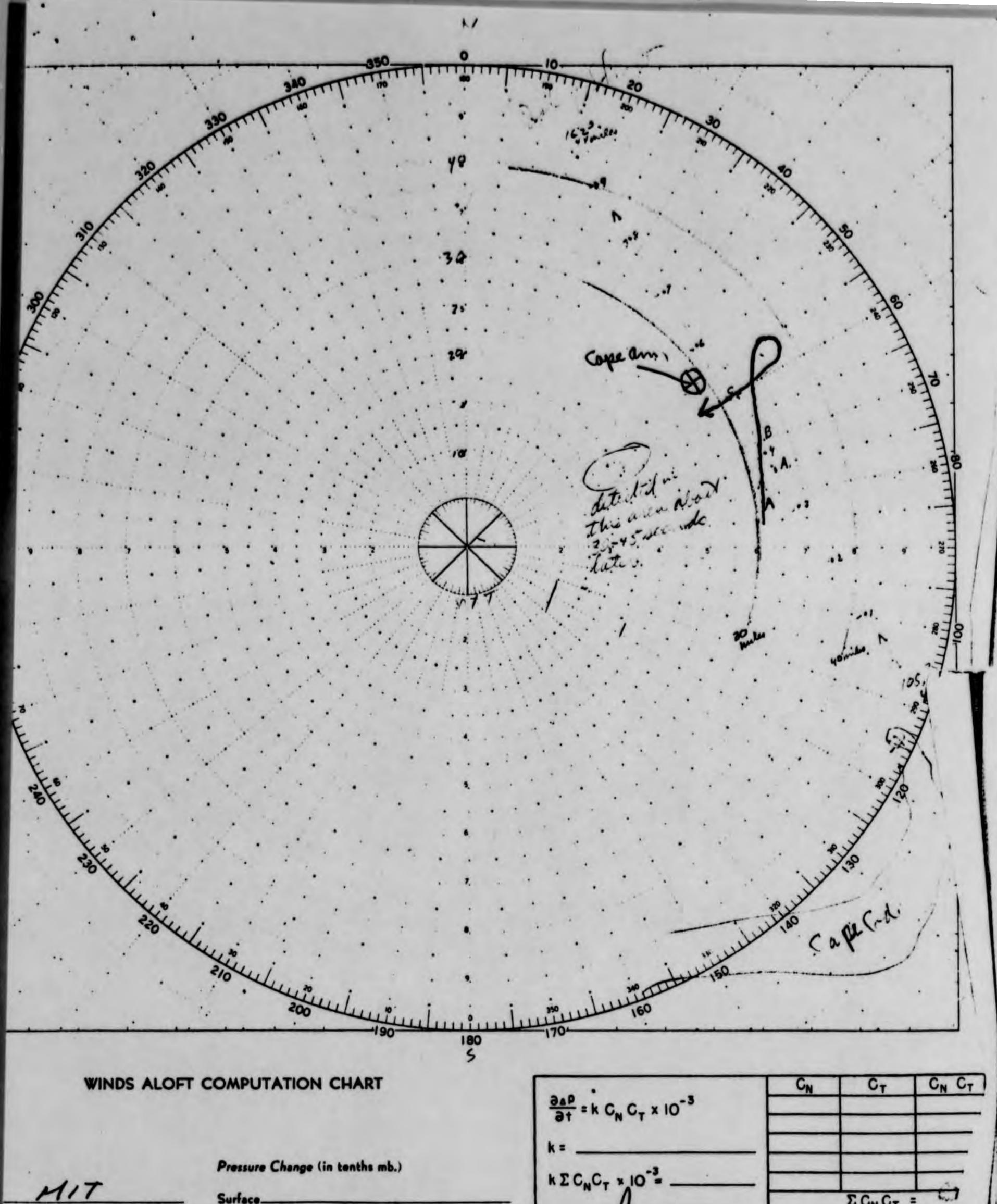
8. It was apparent to the undersigned that many people at Massachusetts Institute of Technology are familiar with this sighting and, as a result, an account of it may eventually appear in the newspapers.

Incl:

Winds Aloft Computation Chart

T. R. XANDO

Detachment Commander



MIT Sept 21, 1950 0945

Diurnal. Advective_

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	ΣCNCT	= 0
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