AF FORM	112
APPROVED 1	JUNE 1948





COUNTRY . (LEAVE BLANK) REPORT NO. U.S.A. (2 AIR INTELLIGENCE INFORMATION REPORT SUBJECT Report of Unusual Flying Objects AREA REPORTED ON FROM (Agency) Keeweenaw Peninsula, Michigan 665th AC&W Squadron, Calumet, Michigan DATE OF REPORT DATE OF INFORMATION (7) 20 April 1953 20 April 1953 PREPARED BY (Officer) SOURCE (10) Capt. Russell H. Kline, Intel. Officer "Personnel 665th AC&W Squadron" REFERENCES (Control number; directive, previous report, etc., as applicable) AFL 200-5 (12) Utilization of AF Form 112 (Air Intelligence Information Report) Form 123 SUMMARY: (Enter concise summary of report. Give significance in final one-sentence paragraph. List inclosures at lower left. Begin text of report on AF Form 112-Part II.) (14)(Summary) See Sect 11 - Capt. James W. Dorgan, 665th AC&W Squadron, Calumet, Michigan Phone 31 or 8. Chief Controller A/2c Richard G. Hetrick, 665th AC&W Sgdn., Calumet, Michigan Phone 21 or 8 Radar Observer A/lc Billy F. Conway, 665th AC&W Squadron, Calumet, Michigan Phone 21 or 8 Radar, Observer Crew Chief. On 20 April 1953 between Oll8Z and O215Z a series of targets were sighted by the 665th AC&W Squadron, Calumet, Michigan. The plots orginated approximately 50 miles out from the station, from 050° clockwise to 251°. Speed was from 1800 miles per hour to 8,400 miles per hour. Targets are believed to be interference from shipborne radar, orginating on Lake Superior. The following information is the track numbers and respective plots. TRACK TRACK TIME (Z) Georef Coord. NO TIME Georef-Coord. NO 0118 Z 20 Apr 53 DD 5013 T-1-T 0121:30 DC 2122 T-2-T ED 0019 DC 4012 ED 1212 0122 DC 5921 ED 3019 0122:30 EO 1510 ED 4919 EC 3115 FD 0016 . 0123 EC 4805 FD 1315 0123:15 FC 0900 FD 2920 Fade 0119:30 0123:30 FB 2555 FB 4951 0124 GB 1540 Fade 01252 T-3-T 0127 DB 0830 EB 0027 T-4-T 0125:15 EB 2114 0127:15 DB 1109 0125:30 EB 3800 0127:30 DB 4905 0125:45 EA 5551 0128 EA 0538 0125200 FA 1041 0128:15 EA 1534 0126:15 0128:45 EA 3713 Fade FA 2931 Fade 1 cys- Director of Intelligence, Headquarters USAF, Washington 25, D.C. 1 cys- Chief, Air Technical Intel. Center, ATTN: ATTAA-2c Wright-Patterson DISTRIBUTION BY ORIGINATOR

l cy - CG, ADC, Ent AFB, Attn: Deputy for Intelligence

1 cy - CG, EADF, Stewart AFB, Attn: Director of Intelligence

1 cy - CG, 30th Air Division, Willow Run Airport, Belleville, Michigan Intelligence 1 cy - Info cy., 4706th Air Def WG. ATIN: Director of Intelligence

NOTE: THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE ACT, 50 U.S.C.— 31 AND 32, AS AMENDED. ITS TRANSMISSION OR THE REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW. IT MAY NOT BE REPRODUCED IN WHOLE OR IN PART, BY OTHER THAN UNITED STATES AIR FORCE AGENCIES, EXCEPT BY PERMISSION OF THE DIRECTOR OF INTELLIGENCE, USAF.

2

AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency)			REPORT NO.				
665th AC&	W Squadron,	Calumet, lichigan.			PAGE 2	OF 2	PAGES
TIME (Z)	Georef Coord	THE STATE OF	TIME (Z)	Georef Coo	ord TRACK		
0129:20 0129:30	CB 2115 CA 3158 CA 3938	T-5-T	0131 0131:20 0131:45	OB 0015 CA 0052 BA 5527	T-6-T		
0129:45	CA 4112 CA 4500 Fade		0132	BA 5000	Fade		
0132:45	BB 4507 BA 3045	T-7-T	0134:30 0134:45	BB 1112 AA 5851	T-8-T		
0133:15	BA 1520 BA 1500	Fade	0135	AA 3527	Fade		
0135:45	AB 0032 QB 3110	T-9-T	0138:20 0138:30	AB 1527 QB 4115 QB 1408	T-10-T		
0136:15	AA 0550 QA 3532		0138:45	AA 2952	Fade		
0136:45	QA 5918	Fade	0139:15	AB 1045 PB 3829	T-11-T		
0144:30	AA 4050	T-12-T	0139:45	PB 0020	Fade		
0144:40	AA 0515 QA 4500	Fade	0145:20	AB 4905 AA 0045	T-13-T		
	DB 5331 EB 1119	T-14-T	0146	QA 2920	Fade		
	FA 0450	Fade					

In accordance with AFL 200-5 Paragraph c, dtd 20 April 1952, the following information is submitted.

1. Radar sighting only, appeared as a normal target except for speed. No abrupt maneuvers were noted. Several individual targets were noted.

2. Time of sighting was between Oll8Z and 0215:15 on 20 April 1953.

3. Manner of sighting was Electronic, Speed was between 1800 mph to 8,400mph depending on the target. Type aircraft was unknown, targets believed to be interference from shipborne radar.

4. Location of Observervation was at the 665th AC&W Squadron Operations.
5. Experience of Radar Observers: Comway, Billy F. A/lc AF15298169, 3 Years

experience in radar operations. Hetrick, Richard G. A/2c AF13364788,

2 and 1/2 years in radar operations, Gebo, John T/SGT AF 21284191, 3 Yrs Radar Maint.

6. Weather 19 Miles from station, E 2000ft Overcast 15 Mi Vis. DP 21 Temp 31

Winds from the North West at 8 Knots.

7. Northern lights were clearly visible during this period. 8. No photographs were taken, no physical evidence taken.

9. No interception action taken, due to no fighters assigned to this Squadron.

10. Location of other air traffic in the area at the time:

Track no. A-66-T Ident. TCA# 2 ALT. 17,000ft. Time. 0114Z Position. 000918

Track no. X-12-T Ident. VC1489 ALT. 8,000ft. Time. 0112Z Position CC3657.

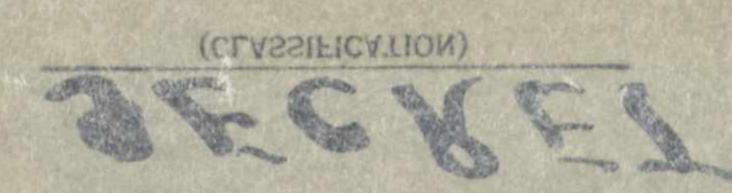
RUSSELL H. KLINE Captain, USAF Intelligence Officer

NOTE: THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE ACT, 50 U. S. C.—
31 AND 32, AS AMENDED. ITS TRANSMISSION OR THE REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.
IT MAY NOT BE REPRODUCED IN WHOLE OR IN PART, BY OTHER THAN UNITED STATES AIR FORCE AGENCIES, EXCEPT BY PERMISSION OF THE DIRECTOR OF INTELLIGENCE, USAF.

16-55570-1 U. S. GOVERNMENT PRINTING OFFICE

Declassification Authority: NND 57565

APPROVED 1 JUNE 1948



AIR INTELLIGENCE INFORNATION REPORT

0215:15	FA 0450	Fade						
0214:45	DB 5531 EB 1119	T-14-T		QA 2920	Fade			
0145	QA 4500	Fade	0145:45	AA 0045	T-13-T			
0144:30 0144:40	AA 4050 AA 0515	T-12-T	0145:20	AB 4905				
			0139:15	PB 3829 PB 0020	Fade			
0136:30 0136:45	QA 3532 QA 5918	Fade	0139	AB 1045	T-11-T			
0136:15	QB 3110 AA 0550		0138:30 0138:45	QB 1408 AA 2952	Fade			
0135:45	AB 0032	T-9-T	0138 0138:20	AB 1527 QB 4115	T-10-T			
0133:30	BA 1500	Fade	0135	AA 3527	Fade			
0133	BA 3045 BA 1520		0134:45	AA 5851	T-8-T			
0132:45	BB 4507	T-7-T	0134:30	BB 1112	m g m			
0129:45 0130	CA 4112 CA 4500 Fade		0152	BA 5000	Fade			
0129:20	CA 3158 CA 3938		0131:20 0131:45	CA 0052 BA 5527				
0129	OB 2115	T-5-T	0131	CB 0015	NO. T-6-T			
TIME (Z)	Georef Coor		TIME (Z)	Georef Coord	TRACK			
665th A0&	M Squadron,	Calumet, Michigan.			PAGE 2	OŁ	3	PAGES
FROM (Agency)			REPORT NO.					

information is submitted. In accordance with AFL 200-5 Paragraph c, dtd 20 April 1952, the following

abrupt maneuvers were noted. Several individual targets were noted. 1. Radar sighting only, appeared as a normal target except for speed. No

2. Time of sighting was between Oll8Z and 0215:15 on 20 April 1953.

interference from shipborne radar. depending on the target. Type aircraft was unknown, targets believed to be 5. Manner of sighting was Electronic, Speed was between 1800 mph to 8,400 mph

4. Location of Observervation was at the 665th AC&W Squadron Operations.

experience in radar operations. Hetrick, Richard G. A/2c AF13364788, 5. Experience of Radar Observers: Conway, Billy F. A/lc AF15298169, 3 Years

Winds from the North West at 8 Knots. 6. Weather 19 Miles from station, E 2000ft Overcast 15 Mi Vis. DP 21 Temp 31 2 and 1/2 years in radar operations, Gebo, John T/SGT AF 21284191, 3 Irs Radar Maint.

7. Northern lights were clearly visible during this period.

No photographs were taken, no physical evidence taken.

10. Location of other air traffic in the area at the time: 9. No interception action taken, due to no fighters assigned to this Squadron.

Track no. X-12-T Ident. VC1489 ALT. 8,000ft. Time. Oll2Z Position CC3657. Track no. A-66-T Ident. TCA# 2 ALT. 17,000ft. Time. 0114Z Position. CC0918

Intelligence Officer

INTELLIGENCE, USAF IT MAY NOT BE REPRODUCED IN WHOLE OR IN PART, BY OTHER THAN UNITED STATES AIR FORCE AGENCIES, EXCEPT BY PERMISSION OF THE DIRECTOR OF 31 AND 32, AS AMENDED, 115 TRANSMISSION OR THE REVELATION OF 175 CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROBIBITED BY LAW, NOTE: THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE ACT, 50 U.S. C. -

SECRET

RADAR OBSERVATION DATA SHEET

I. QUESTIONS REGARDING DETECTING RADAR EQUIPMENT

- 1. What type radar equipment is involved?
 AN/FPS-3 (Search)
- 2. Has there been any recent maintenance difficulties? If so, describe. None
- 3. What type modulator (i.e., spark gap, hard tube, etc.) is used in the radar equipment? Thyratron
- 4. Was the AFC (automatic frequency control) circuit of the receiver operating properly?
 Yes
- 5. Has interference from another radar set been observed recently, and are personnel familiar with the effects caused by an interfering signal?
 Yes
- 6. What type indicators, "A scope", "B scope", etc., were used to follow the target?
 PPI
- 7. What was the radar scan rate?
 - 5 RPM Normal. Was Changed frequently during detection of unusual activity.
- 8. What was the approximate frequency of the transmitter?

II. GENERAL QUESTIONS

- 1. What were the general weather conditions at the time unidentified target was observed? 3 miles visibility, snow, overcast.
- 2. What weather data from nearby U.S. weather stations is available on temperature vs altitude, humidity vs altitude, and wind velocity vs altitude?

 CMX 0130Z 20 apr. 53. E 2000 Overcast, 15 Mi. Vis. DP. 21 Temp. 31.
- 3. Was the target observed by any other nearby radar equipments? If so, give details.
- 4. Are the operator and the supervisor familiar with the effects of anomalous (duct-effect) propagation as they pertain to this type radar?

Yes.

ADC Form 123 20 October 1952

AF543159

Page 1 of 3

atel

SECRET SECURITY INFORMATION

(USE REVERSE SIDE OF SHEET IF MORE SPACE IS REQUIRED)

- 5. Has anomalous propagation been observed to extend the range of ground clutter by this radar at this site, and did this condition exist during or near the time that unknown target was observed? Average amount of clutter. No other Unknown aircraft were in the area
- 6. What effects of rain storms and lightning have been observed on this radar? Usual scope weather, Nothern light were clearly visiable during this period.
- 7. Were any checks made to determine if unknown target could have been one of our own aircraft? Yes.
- 8. Was any interception attempted? If so, give details. No.
- 9. Was a visual and/or Auditory observation made simultaneously with scope observation? If so, give detailed description. No.

III. SPECIFIC TARGET QUESTIONS

- 1. Did any technical personnel observe the unknown target on the Radar Scope? Have they been questioned thoroughly? What was their opinion? Yes, interference, but of unknown origin, possible shipborne radar.
- 2. Was a permanent record "track" made of the target positions as they appeared on the indicators? If so, attach to this report. (Plot on back of page 1.) Yes. see attached report. on back page 1.
- 3. At what range, azimuth, altitude, and time was the target observed?
 Neg altitude was recorded, could not train height finded on track long enough to obtain altitude.
- 4. How did the target appear in size and shape as compared with conventional aircraft targets? Same, very defined, sharp. Same as normal target.
- 5. Was the target of consistent size, or did it change rapidly? Consistent.
- 6. Was the speed of the target constant or variable? Explain. Constant
- 7. Did the target appear "fuzzy" or clear and sharp as compared with a known aircraft target? Sharp, very defined.
- 8. What other (aircraft) targets were observed in the same general area, altitude, and time as that of the unknown target?

 Track No. X-12-T Ident. VC 1489 Alt. 8,000ft. Time. Oll2Z, Position.-CC 3657. Track No. A-66-T Ident. TCA # 2 Alt. 17,000 ft. Time Oll4Z Position. CC 0981

ADC Form 123 20 October 1952

Page 2 of 3 SECURITY INFORMATION

ADC Form 123 20 October 1952

SECURITY INFORMATION

315° Z0010-8110 1-1-L T-11-T 0139 - 0139 30 2 Indicate Ranges In Miles

INSTRUCTIONS: PLOT TRACK OF TARGET, INDICATE RANGE AND AZIMUTH. GIVE TIME AT START AND END OF TRACK.

Page 3 of 3

