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DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
INCOMING MESSAGE

ACTION

AF IN : 23784 (14 Nov 63)

pg 1 of 3

ACTION: JCS/DIA(CIIC)-2, DIA-25, XPD-3

PE/trc

INFO : JCS/J3-2, NMCC-2, RRA-1, JRG-2, JCS FILE-2 (11) CMC-8, OSD-15,
XOP-1, XOPX-4, XDC-1, NIN-1, ODC-1, SMB-1 (72)

XOP

ZCHQA961ZCJJG859

OO RUEAHQ

ZFD RUWGALB

OO RUEAHQ RUEKC KEKVDA RUEKMJ RUEPDA RUEHC RUECW RUEPIA

DE RUWGALB 19D 13/2337Z

O 132316Z ZEX

FM CINCORAD

TO RUEAHQ/JCS JRC

RUEKC/ANMCC

RUEKVDA/NECPA

RUEKMJ/NEACP

RUEAHQ/DIA

RUEPDA/DA

RUEHC/DEPT OF STATE

RUEAHQ/CSAF

RUEAHQ/DIRNSA ///PROTECTED///

RUECW/CNO

RUKDAG/CINCAL

RUCSBR/CINCSAC

RULPC/USCINCSO

RUFLC/USCINCEUR

RUHPA/CINCPAC

RUCKHC/CINCLANT

RUCDSQ/AFSC FTD TD ARM FTD WPAFB OHIO

RUDLAU/CINCUSNAVEUR

RUECW/ONI

RUEPIA/CIA

BT

~~SECRET~~ FROM NITA-S X-660

DA PASS TO ACSI/DA. CSAF FOR AFNIE. DIRNSA FOR A41.

CIA, ATTN: OSI/BMSD. DEPT OF STATE FOR HOWARD WIEDMAN,

INR. DIA FOR DIAAP-3A3, ATTN: R.A. BAUMLER AND DIAAP-

1F1, ATTN: R.E. SCHMALTZ, ONI FOR OP922Y. THIS IS

NORAD FRAGMENTARY REPORT NUMBER 130-63. REFERENCE

CASE FILE COPY

RL(63) 67-1
ST/AFIN

Declassification IAW
EO 13526
by the Air Force Declassification Office
Date: 11-2-11 Reviewer# 72

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SICR #D-ACQ-03796. STATUS OF SPUTNIK 46, 1963-44A AND B, SPADATS OBJECTS NUMBER 687 AND 688. COSMOS 21 LAUNCHED FROM THE TYURATAM MISSILE TEST RANGE AT 0624Z ON 11 NOV (SPADATS DERIVED LAUNCH TIME). SPADATS OBJECT 688, IDENTIFIED AS THE INJECTION STAGE ROCKET BODY OF THIS LAUNCH, DECAYED BETWEEN 2210Z AND 2400Z ON 12 NOVEMBER 63. GOOD QUALITY RADAR SIGNATURE DATA WERE OBTAINED ON THIS OBJECT. THESE DATA INDICATE THAT OBJECT 688 MEASURED APPROXIMATELY 30 FEET IN LENGTH. IT WAS MADE UP OF THREE SECTIONS: A CYLINDER APPROXIMATELY 23 FEET LONG AND SEVEN FEET IN DIAMETER; A TRUNCATED 3 1/2 FOOT LONG TAPERED SECTION, TAPERING IN DIAMETER FROM SEVEN FEET TO 5 1/2 FEET; AND A FLARED SECTION, ON THE OPPOSITE END OF THE CYLINDER, MEASURING 3.3 FEET IN LENGTH. THIS ROCKET BODY TUMBLED WITH ITS TUMBLE RATE GRADUALLY INCREASING FROM 3.3 RPM ON REVOLUTION 5 TO 4.5 RPM AT TIME OF DECAY. SPADATS OBJECT 687, IDENTIFIED AS THE PAYLOAD, IS STILL IN ORBIT AS OF THIS WRITING (REVOLUTION 41 AT 1900Z ON 13 NOVEMBER). SPADATS ORBITAL PARAMETERS FOR OBJECT 687 AS OF REVOLUTION

36 WERE AS FOLLOWS:

INCLINATION: 64.76 DEGREES

NODAL PERIOD: 88.10 MINUTES

ECCENTRICITY: 00127

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APOGEE: 187.55 KILOMETERS (101.27 NAUTICAL MILES)

PERIGEE: 170.9 KILOMETERS 106.2 NAUTICAL MILES)

RADAR SIGNATURE DATA INDICATES THAT OBJECT 687 POSSESSES A CUMBER OF IRREGULARITIES IN SHAPE AND STRUCTURE. IT APPERAS TO CARRY AT LEAST THREE ANTENNAE, AND PROBABLY HAS SURFACE DISCONTINUITIES AS WELL. ITS GENERAL CONFIGURATION APPEARS TO BE DRUM-SHAPED; IT IS ESTIMATED TO MEASURE ABOUT FOUR FEET IN DIAMETER AND FIVE FEET IN HEIGHT. DUE TO THE PROTRUSIONS AND SURFACE IRREGULARITIES, THE RADAR SIGNATURESNOHINTERCEPTED FROM THE PAYLOAD SINCE THE ZERO REVOLUTION, WHICH SUGGESTS THAT THE PAYLOAD MAY NOT BE FUNCTIONING AS PLANNED. IN SUCH A CASE THE SOVIETS MAY BE UNABLE TO RECOVER IT. BASED ON THE ORBITAL PARAMETERS, IT IS ESTIMATED THAT THIS VEHICLE WILL DECAY NATURALLY WITHIN THE NEXT FEW DAYS. GP-1
BT

NOTE: ADV CY DEL TO DIA, NIN AND JCS.
CORRECTED COPY OF AFIN 22976 (14 Nov 63).

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EXCLUDED FROM AUTOMATIC DECLASSIFICATION;
DOD DIR. 6200.10 DOES NOT APPLY

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AF IN : 20080 (12 Nov 63) HO/gf

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ACTION: JCS DIA/CIIC-2, DIA-25, XPD-4

INFO : J3-2, NMCC-2, RRA-1, JRG-2, FILE-2 (11), OSD-15, CMC-8
ODC-1, XOP-1, XOPX-4, NIN-1, XDC-1 (72)

ACTION

SMB E 59

KUEAHQ
DE RUWGALB 3D 12/0133Z
P 110130Z
FM CINCNORAD
TO RUEAHQ/JCS
RUEKC/ANMPCC
RUEKVDA/NECPA
RUEKMJ/NEACPP
RUEAHQ/DIA
RUEPIA/CIA
RUEPDA/DA
RUECW/CNO
RUEAHQ/CSAF
RUEAHQ/DIRNSA
RUCSBR/CINCSAC
RULPC/USCINCSO
RUCKHC/CINCLANT
RUFLLC/USCINCEUR
RUHPA/CINCPAC
RUKDAG/CINCAL
RUDANR/CINCUSNAVEUR
RUHPB/CINCPACFLT
RUCQKKB/CINCSGRIKE
RUCQNO/CDR AMR PATRICK AFB FLA
RUWDKE/CDR PMR POINT MUGU CALIF
RUWHFKGXQST RATAD VANDENBERG AFB CALIF
RUEPVC/CG AOMC REDSTONE ARSENAL ALA
RCCSLW/CDR NNR NORTH BAY CAN
RUCDSQ/FTD WPAFB OHIO
RUEABF/ESD HANSCOM FLD MSA
REUAFF/AFSC ANDREWS AFB MD
RUECYP/NAVSPASUR DAHLGREN VA
RCPFFZ/CANAIRHED OTTAWA ONTARIO CAN

CASE FILE COPY

JCS MONITOR

RL(63) 67-1 (4)
SHAFIN

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RUCQNO/AFMTC PATRICK AFB AFL
RUWBKN/CDR 15AF MARCH AFB CALIF
RUWKDKC/SSD INGLEWOOD CALIF
RUWHBK/DEP CDR AEROSPACE SYSTEM LOS ANGELES CALIF
RUDLAU/USAFLT KLONDON
RUWHBH/25NR MCCHORD AFB WASH
RUEASN/26NR HANCOCK FLDY NY
RUWHSBP/28NR HAMILTON AFB CALIF
RUWGKF/29NR RICHARDS GEBUR AFB MO
RUCDAH/30NR TRUAX FLD WISC
RUCQGM/32NR GUNTER AFB ALA
RUKDAG/ANR ELMENDORF AFB ALAS
RCCSLW/NNR NORTH BAY ONT CAN
RUWGALE/DDR USAF ADC ENT AFB COLO
ZEN/CG USARADCOM ENT AFB COLO
ZEN/COMNAVFORCONAD ENT AFB COLO
ZEN/CDR 9TH AEROSPACE DEF DIV ENT AFB COLO
ZEN/CDR 1ST AERO SP SQ ENT AFB COLO
RUEPFG/DIRAFSSOP FT GEORGE MEADE MD
RT

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~~SECRET~~ FROM NITA-S X-659

CIA, ATTN: OSI/BMSD. DA PASS TO ACSI/DA. CSAF FOR
AFNINC AND AFNIEBB,. CNO PASS TO ONI. 1STRATAD FOR DI.
CG AOMC, ATTN: AMCPM-ZER-R. ESD FOR 496L SPO. AMR PASS
TO MTGSS. CANAIRHED FOR DAIR. AEROSPACE SYSTEMS FOR MAJ
GEN ROBERT GREER, SAFSP. STRIKE FOR CIIC. AFSSOP FOR
CPR-0. NORAD SPACE INTELLIGENCE BULLETIN 35-63.
THE FOLLOWING INTELLIGENCE SUMMARY ON SPACE HAS BEEN
PROVIDED CINCNORAD AND IS SENT TO YOU AS A MATTER OF
INFORMATION. THIS REPORT IS DESIGNED PRIMARILY TO GIVE
QUICK LOOK ANALYSIS OF CURRENT INTELLIGENCE. COMMENTS
ARE PRELIMINARY IN NATAURE AND MAY BE SUBJECT TO REVISION

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AS MORE DATA ARE RECEIVED. ON 11 NOVEMBER AT APPROXIMATELY 0625Z THE SOVIET UNION LAUNCHED AN EARTH SATELLITE VEHICLE FROM THE TYURATAM MISSILE TEST RANGE. THIS LAUNCH WAS DETECTED BY THE SHEMYA RADAR FACILITY AT 0642Z AND LATER RADAR DATA HAS BEEN OBTAINED FROM OTHER SPADATS FACILITIES. THIS LAUNCH HAS BEEN DESIGNATED SPUTNIK 46, 1963-44. THREE OBJECTS HAVE BEEN DETECTED IN THE SPUTNIK 46 ORBIT, AND ORBITAL PARAMETERS HAVE BEEN OBTAINED ON TWO OF THESE. THE SPUTNIK 46 ORBIT IS A NOMINAL 65 DEGREE INCLINATION ORBIT, AS HAVE BEEN ALL PREVIOUS LAUNCHES FROM THE TYURATAM MISSILE TEST RANGE EXCEPT FOR SPUTNIK 45. OF THE THREE OBJECTS IN THE SPUTNIK 46 ORBIT, THE TRAILING PIECE HAS BEEN TENTATIVELY IDENTIFIED AS THE PAYLOAD, AND HAS BEEN DESIGNATED SPADATS OBJECT NUMBER 687, 1963-44A, SPADATS DERIVED ORBITAL PARAMETER FOR OBJECT 687, UPDATED AS OF REVOLUTION 7, ARE:

INCLINATION: 65.1 DEGREES
NODAL PERIOD: 88.59 MINUTES
ECCENTRICITY: .00189

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APOGEE: 217.6 KILOMETERS (117.5 N.M.)
PERIGEE: 192.7 KILOMETERS (104.1 N. M.)

INITIAL RADAR SIGNATURE ANALYSIS INDICATES THAT THE

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ROUGH SHAPE OF OBJECT 687 APPEARS TO BE A CONE-CYLINDER, LENGTH APPROXIMATELY 5 FEET AND DIAMETER APPROXIMATELY 3 FEET. IT APPEARS TO BE TUMBLING WITH A TUMBLE PERIOD OF APPROXIMATELY 5 SECONDS (12RPM). THE LEADING OBRECT IN THIS ORBIT HAS BEEN TENTATIVELY IDENTIFIED AS THE INJECTION STAGE ROCKET BODY, AND HAS BEEB DESIGNATED SPADATS OBJECT NUMBER 688, 63-44B. SPADATS DERIVED ORBITAL PARAMETERS FOR OBJECT 688, CALCULATED AS OF REVOLUTION 7, ARE:

INCLINATION: 65. 1. DEGREES

NODAL PERIOD: 88.36 MINUTES

ECCENTRICITY: .00171

APOGEE: 204.75 KILOMETERS (110.6 NAUTICAL MILES)

PERIGEE: 182.3 KILOMETERS (98.4 NAUTICAL MILES)

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OBJECT 688 IS LEADING OBJECT 687 BY 6.5 MINURES AS OF REVOLUTION 27. RADAR SIGNATURE ANALYSIS INDICATES THAT OBJECT 688 APPEARS TO BE BASICALLY CYLINDRICAL, PERHAPS WITH A SLIGHT TAPER. LENGTH APPEARS TO BE 10-16 FEET, WITH DIAMETER 4.5 -6.5 FEET. OBJECT 687 IS TUMBLING

WITH TUMBLE PERIOD OF 17-18 SECONDS (8KEMTAEME RPM). THE REMAINING OBJECT IN THE SPUTNIK 45 ORBIT IS LEADING OBJECT 687 AND LAGGING OBJECT 688. AS OF REVOLUTION 6 IT

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WAS LEADING OBJECT 687 BY APPROXIMATELY ONE MINUTE.

DUE TO THE SMALL SIZE OF THIS OBJECT,

THERE HAS NOT BEEN SUFFICIENT RADAR DATA OBTAINED AS YET

FOR THE CALCULATION OF ORBITAL PARAMETERS. THEREFORE

THIS PIECE HAS NOT RECEIVED A SPADATS OBJECT NUMBER AS

YET. RADAR SIGNATURE ANALYSIS INDICATES THAT THIS PIECE

APPEARS TO BE A SMALL FRAGMENT, WITH A DIAMETER OF

ROUGHLY SIX TO TWELVE INCHES. THERE ARE VERY TENTATIVE

INDICATIONS THAT IT IS SOME SORT OF PLATE. IT IS TUMBLING

RAPIDLY WITH TUMBLE PERIOD OF APPROXIMATELY 0.7 SECONDS (86 RPM).

IT IS EMPHASIZED THAT THESE RADAR SIGNATURE ANALYSES REPRESENT

INITIAL FIRST LOOK REPORTS ONLY, AND MUST BE TREATED

AS UNCERTAIN UNTIL FURTHER RADAR SIGNATURE DATA IS GATHERED AND

ANALYZED. ELEMENT WAS INTERCEPTED FROM THIS LAUNCH ON THE INITIAL

(ZERO) REVOLUTION ONLY AS FOLLOWS:

SIGNAL	UP	DOWN	REPORTING AREA
76MC 48 CHANNEL	0626:56Z	0627:51Z	MID EAST
71NC 48 CHANNEL	0628:30Z	0628:40Z	MID EAST
61MC 24 CHANNEL	0641:20Z	0649:40Z	ALASKA
66MC 24 CHANNEL	0641:20Z	0649:40Z	ALASKA
2800MC 24 CH/BEACON	0641:20Z	0649:40Z	ALASKA
61MC NR CH NOT	0651:14Z	0658:10Z	MID-PACIFIC

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66MC NR CH NOT REP 0652:00Z 0657:10Z MID-PACIFIC
NO CONFIRMED TELEMETRY HAS BEEN INTERCEPTED FROM SPUTNIK
46 SINCE INITIAL REVOLUTION. TASS HAS MADE NO ANNOUNCEMENT
CONCERNING THIS LAUNCH. THE SOVIETS NORMALLY ANNOUNCE A SUCCESSFUL
OPERATION. DUE TO LACK OF TELEMETRY SINCE
ZERO REVOLUTION, HIGH TUMBLE RATE OF PAYLOAD, AND ABSENCE OF
SOVIET ANNOUNCEMENTS, IT IS TENTATIVELY SUGGESTED THAT THE PAY-
LOAD HAS FAILED TO PERFORM SUCCESSFULLY. FURTHER
INFORMATION WILL BE FURNISHED AS AVAILABLE. IN VIEW OF THE LACK OF
PUBLIC ANNOUNCEMENT OF THIS LAUNCH, IT IS ANTICIPATED THAT
SPADATS BULLETINS ON THIS LAUNCH WILL CONTINUE TO BE ISSUED AT
SECRET LEVEL AND WILL BE DECLASSIFIED. GP 1.

BT

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