

**TOP SECRET**

# OAK

PHOTOGRAPHIC INTERPRETATION REPORT



**MISSION 4027**

**20-25 APRIL 1966**

**PART III**

Declass Review by  
NGA



MAY 1966

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## OAK - PART III

# MISSION 4027

### PREFACE

THIS IS THE THIRD AND FINAL OAK REPORT ON MISSION 4027 AND PROVIDES INFORMATION ON THE HIGHEST PRIORITY COMMITTEE ON OVERHEAD RECONNAISSANCE (COMOR) TARGETS OBSERVED ON THE PHOTOGRAPHY. THE REMAINDER OF THE COMOR TARGETS COVERED ON THIS PHOTOGRAPHY WILL BE REPORTED IN A SERIES OF OAK SUPPLEMENTS.

TARGETS ARE ARRANGED IN THE OAK BY SUBJECT AND WITHIN EACH SUBJECT BY COMOR TARGET NUMBER. TARGETS OF OPPORTUNITY OBSERVED DURING THE OAK REPORTING PERIOD ARE LISTED NUMERICALLY UNDER THE APPROPRIATE SUBJECT AFTER THE LISTING OF COMOR TARGETS. LOCATIONS OF TARGETS IN THIS REPORT ARE INDICATED BY THE COUNTRY CODE PRECEDING THE COORDINATES.

SELECTED PHOTOGRAPHIC REFERENCES FOR EACH TARGET OBSERVED AND REPORTED FOLLOW THE DESCRIPTION OF THE TARGET. PASS NUMBERS ARE LISTED FIRST, FOLLOWED BY FRAMES WHICH ARE INDICATED BY THE FRAME NUMBER WITH AN INDEX NUMBER RUNNING CONSECUTIVELY FROM THE BEGINNING OF EACH PASS. -- 4/8 FOR EXAMPLE, MEANS FRAME 4, INDEX 8. UNIVERSAL REFERENCE GRID (X-Y) COORDINATES ARE GIVEN IN PARENTHESIS AFTER THE INDEX NUMBER TO WHICH THEY APPLY. THIS GRID IS IDENTIFIED AS UNIVERSAL GRID NO 1, FEB 64. SYMBOLS INDICATING CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON THE PHOTOGRAPHY ARE -- C (CLEAR), SC (SCATTERED CLOUD COVER), HC (HEAVY CLOUD COVER), H (HAZE), CS (CLOUD SHADOW), S (SNOW), O (OBLIQUITY), SD (SEMIDARKNESS), D (DARKNESS), GC (GROUND COVER), CF (CAMOUFLAGE), AND GR (GROUND RESOLUTION).

INTERPRETABILITY OF THE PHOTOGRAPHY IS CATEGORIZED AS G (GOOD), F (FAIR), OR P (POOR). THE EXTENT OF PHOTOGRAPHIC COVERAGE IS DENOTED BY THE SYMBOLS T (TOTAL) OR PT (PARTIAL). THE MODE OF COVERAGE IS INDICATED BY ST (STEREO), PS (PARTIAL STEREO), OR NS (NON-STEREO).

OAK RECIPIENTS ARE CAUTIONED THAT THE INITIAL SCAN OF THE PHOTOGRAPHY IS BEING ACCOMPLISHED IN A SHORT TIME AND PRIOR TO FINAL REFINEMENT OF EPHEMERIS DATA. CONSEQUENTLY, FUTURE DETAILED ANALYSIS MAY RESULT IN MINOR ALTERATIONS.

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**Highlights**

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HIGHLIGHTS

NOTE -- THE TARGET DATA INVENTORY SYSTEM OF DESIGNATING DEPLOYED ICBM MISSILE SITES IS USED FOR THE NEW MISSILE SITES IDENTIFIED ON THIS MISSION. WHERE POSSIBLE, NPIC WILL ADD A LETTER SUFFIX TO THE DESIGNATION OF TYPE IIID LAUNCH SITES TO INDICATE THE LAUNCH GROUP WITH WHICH THE SITE IS ASSOCIATED. ALSO, AS A RESULT OF FURTHER STUDY OF THE FACILITIES AND EQUIPMENT SEEN ON THIS MISSION AT THE TALLINN AND THE LENINGRAD NW COMPLEXES AND THE NEW SAM ACTIVITY AT KAPUSTIN YAR, IT HAS BEEN CONCLUDED THAT THE PREVIOUSLY DESIGNATED AMM/SAM LAUNCH COMPLEXES ARE PROBABLE LONG RANGE SAM LAUNCH COMPLEXES. THIS DOES NOT PRECLUDE DEFENSE AGAINST AERODYNAMIC CRUISE-TYPE MISSILES. BEGINNING WITH THIS OAK, THESE COMPLEXES ARE RE-DESIGNATED PROBABLE LONG RANGE SAM LAUNCH COMPLEXES.

1. TYURATAM MISSILE TEST CENTER

25X1

THE TEST CENTER IS COVERED FROM LAUNCH COMPLEX A WESTWARD BY PHOTOGRAPHY OF GOOD INTERPRETABILITY. MISSILES IN A HORIZONTAL POSITION ARE LOCATED IN FRONT OF BOTH READY BUILDINGS ASSOCIATED WITH G1 AND G2. ONE MISSILE APPEARS TO HAVE MATED STAGES, IDENTIFIED AS THE FIRST TWO STAGES OF A POSSIBLE SCRAG. EMPTY MISSILE-TRANSPORTING RAIL CARS ARE PRESENT TO THE REAR OF THE PAD AT G3 AND NEAR THE PAD AT G4. A MISSILE-TRANSPORTING RAIL CAR, SIMILAR TO THOSE OBSERVED AT LAUNCH AREA G3-G4, IS SEEN ON A SPUR AT A NEWLY IDENTIFIED POSSIBLE COMPONENT CHECKOUT/HANDLING FACILITY. THIS MAY INDICATE THAT THIS FACILITY IS ASSOCIATED WITH LAUNCH AREA G3-G4. AN UNIDENTIFIED OBJECT LONG ON A TRANSPORTER AND A PRIME MOVER ARE PARKED END-TO-END AT G9.

25X1

2. PLESETSK ICBM COMPLEX

25X1

THE PREVIOUSLY REPORTED UNIDENTIFIED AREA 2 NM WSW OF THE COMPLEX SUPPORT FACILITY CAN NOW BE IDENTIFIED AS A PROBABLE ELECTRONIC FACILITY.

3. PLESETSK ICBM LCH AREA G

25X1

PROBABLE LAUNCH AREA G CAN NOW BE CONFIRMED. THE PROBABLE GANTRY CAN NOW BE CONFIRMED, AND TRACKS EXTEND FROM THE GANTRY TO THE LEFT PAD.

25X1

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4. PLESETSK ICBM LCH AREA H [redacted]

25X1

PROBABLE LAUNCH AREA H CAN NOW BE CONFIRMED. A LARGE GANTRY, LIKE THE ONE AT LAUNCH AREA G, IS UNDER CONSTRUCTION BEHIND THE RIGHT PAD.

5. PERM ICBM COMPLEX [redacted]

25X1

A TYPE IIID LAUNCH SITE (40) IS NEWLY IDENTIFIED IN A MID-STAGE OF CONSTRUCTION AT 57-50N 056-18E.

6. OLOVYANNAYA ICBM COMPLEX [redacted]

25X1

A TYPE IIID LAUNCH SITE (55I) IS NEWLY IDENTIFIED IN AN EARLY STAGE OF CONSTRUCTION AT 50-58N 116-11E.

7. KAPUSTIN YAR SAM LAUNCH COMPLEX [redacted]

25X1

THE PROBABLE LONG RANGE SAM LAUNCH AREA, PREVIOUSLY REPORTED AS THE NEW-TYPE SAM LAUNCH AREA, CAN NOW BE RELATED TO THE 16 LONG RANGE SAM COMPLEXES IN THE SOVIET UNION, DUE IN PART TO THE PRESENCE OF A VEE OR FORKED PATTERN AND TRACKING/GUIDANCE RADARS WHICH ARE THE SAME AS THOSE AT LAUNCH COMPLEX A, SARY-SHAGAN, LENINGRAD NW, TALLINN, AND CHEREPOVETS.

8. EMBA MSL TEST CENTER LAUNCH AREA [redacted]

25X1

TWO PROBABLE GANEF MISSILES ARE AT THE WESTERN LAUNCH PAD AND 2 PROBABLE TRANSPORTER-LAUNCHERS (ONE WITH 2 PROBABLE GANEF MISSILES MOUNTED ON IT) ARE CLOSE BY.

9. LENINGRAD NW PROB LONG RANGE SAM LCH CPLX [redacted]

25X1

A LAUNCHER HAS BEEN EMPLACED AT EACH LAUNCH POSITION AT SITES A AND B SINCE [redacted]

25X1

10. TALLINN PROB LONG RANGE SAM LCH CPLX [redacted]

25X1

RAILS CAN BE IDENTIFIED IN THE VEE PATTERNS AT LAUNCH SITES D AND E. A CAMOUFLAGE NETTING HAS BEEN STRETCHED OVER THE CENTER OF THE SITE CONTROL POSITION, LAUNCH SITE A. A PAIR OF RAIL-MOUNTED DOLLIES, EACH [redacted] ARE IN EACH LAUNCH POSITION AT LAUNCH SITES A, B, AND C. AT THE ELECTRONIC SITE,

25X1

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TRACKING/GUIDANCE RADARS ARE OBSERVED AT POSITIONS 1, 2, AND 3. APPROXIMATELY 107 PIECES OF EQUIPMENT ARE IN OPEN STORAGE ON THE OLD AIRFIELD TAXIWAY.

**11. STRYY SAM SUPPORT FACILITY (MISSILE BONUS)**

UNIDENTIFIED ACTIVITY ADJACENT TO THE SSW EDGE OF SAM SUPPORT FACILITY CONSISTS OF A LARGE GORKIY-TYPE REVETMENT, A PROBABLE SECURITY BUILDING, A T-SHAPED ROAD, AND A SEPARATE SECURITY FENCE.

**12. NAM PO SAM SITE C24-2 (MISSILE BONUS)**

THIS NEWLY IDENTIFIED SITE IS LOCATED 25.6 NM SW OF NAM PO AT 38-27-40N 124-59-30E.

**13. EMBA MTC OPERATIONAL SUPPORT AREA (MISSILE BONUS)**

NINE POSSIBLE GANEF MISSILES ARE OBSERVED IN THE OPERATIONAL SUPPORT AREA 12 NM NNE OF THE LAUNCH AREA.

**14. MOSCOW PROBABLE ABM LAUNCH COMPLEX (MISSILE BONUS)**

BASED ON CONSTRUCTION PATTERNS OBSERVED AT THE PROBABLE ABM LAUNCH COMPLEX AT MOSCOW SAM SITE E33-1 (SEE MISSILE BONUS 1, OAK PART II), A SIMILAR PROBABLE ABM LAUNCH COMPLEX IS APPARENTLY UNDER CONSTRUCTION AT MOSCOW SAM SITE E31-1.

**15. NOVOSIBIRSK AIRFIELD WEST**

A NEW GENERATION FIGHTER AIRCRAFT IS OBSERVED. THIS DELTA-WING VEHICLE HAS A FUSELAGE [REDACTED] FUSELAGE DIAMETER OF [REDACTED] IT HAS FUEL TANKS ON THE WING TIPS AND PROBABLY 2 ENGINES IN THE REAR OF THE AIRCRAFT, PROBABLY INTERNALLY MOUNTED. SCAFFOLDING IS PRESENT AROUND THE TAIL ASSEMBLY, BUT THE SHADOW OF THE HORIZONTAL STABILIZER SHOWS IT TO BE TAPERED ON BOTH THE LEADING AND TRAILING EDGES.

[REDACTED]

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**18. HU-HO-HAO-TE SUSPECT PROPULSION TEST FAC**

FACILITY IS LOCATED 16 NM ESE OF HU-HO-HAO-TE AND CONTAINS A POSSIBLE TEST POSITION AND A POSSIBLE HORIZONTAL TEST BUILDING. THE TEST POSITION CONSISTS OF A RECTANGULAR STRUCTURE APPROXIMATELY 40 FT HIGH WITH AN ADJACENT LOW BUILDING AT ONE SIDE AND A LONG, NARROW FLAME BUCKET EXTENDING NORTHWARD.

**19. NIKOLAYEV HF SPHERICAL/CIRCULAR ARRAY FAC**

APPROXIMATELY 6 NEW RHOMBIC ANTENNAS HAVE BEEN CONSTRUCTED IN THE HF COMMUNICATIONS AREA AND 2 NEWLY IDENTIFIED VERTICAL RADIATORS, 400 FT AND 650 FT HIGH, ARE LOCATED IN THE SOUTHERN PORTION OF THE ORIGINAL FACILITY.

**20. KUPINO TALL KING AIR DEFENSE HQ FACILITY (ELECTRONIC BONUS)**

LOCATED 1 NM EAST OF KUPINO, THIS SECURED SITE CONTAINS 1 TALL KING ANTENNA, 1 ANTENNA BUILDING, 1 SUPPORT BUILDING, 1 GENERATOR BUILDING, AND 1 MAINTENANCE BUILDING.

**21. VAANA AIR WARNING RADAR FACILITY (ELECTRONIC BONUS)**

LOCATED 1.2 NM SOUTH OF VAANA, THIS PROBABLE LONG RANGE SAM ASSOCIATED BACK NET/SIDE NET-TYPE INSTALLATION IS UNDER CONSTRUCTION AND INCLUDES 4 RADAR MOUNDS AND A CENTRAL REVETTED POSITION.

**22. YENISEYSK TALL KING AIR WARNING RADAR FAC (ELECTRONIC BONUS)**

THIS NEWLY IDENTIFIED SITE CONTAINING 1 TALL KING ANTENNA, 1 ANTENNA BUILDING, 1 SUPPORT BUILDING, 1 GENERATOR BUILDING, AND 2 MAINTENANCE BUILDINGS IS LOCATED 2 NM NW OF YENISEYSK.

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STATUS OF COMOR TARGET READOUT

ONE-HUNDRED-THREE COMOR TARGETS WERE OBSERVED DURING THE OAK REPORTING PERIOD AND ARE CONTAINED IN THIS OAK.

TABULAR SUMMARY

A RECAPITULATION OF SIGNIFICANT ACTIVITY OBSERVED [REDACTED] AND NPIC CURRENT MISSILE LISTINGS IS PRESENTED IN THE FOLLOWING TABLES ON SUCCEEDING PAGES --

- TABLE 1 -- SOVIET ICBM DEPLOYMENT
- TABLE 2 -- SOVIET MRBM AND IRBM DEPLOYMENT
- TABLE 3 -- SAM AND ABM DEPLOYMENT
- TABLE 4 -- DATE/TIME OF PHOTOGRAPHIC PASSES

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TABLE I. SOVIET ICBM DEPLOYMENT Mission 4027

COMPLEX	TYPE I				TYPE II								TYPE III						Number of Sites	Number of Positions	New Sites	Total Launch Positions						
	A		B		A		B		C		D		A		B		C						D					
	Sites	Launchers	Sites	Launchers	Sites	Launchers	Sites	Launchers	Sites	Launchers	Sites	Launchers	Sites	Launchers	Sites	Launchers	Sites	Launchers					Under Construction	Sites	Launchers	Under Construction		
<sup>45</sup> ALEYSK																		10	10	9				10	10	1	11	
<sup>45</sup> DOMBAROVSKIY																		20	20	17				20 (2*)	20 (2*)			
<sup>45</sup> DROVYANAYA							1	2				2	4	3	9									20	20	11	26	35
<sup>45</sup> GLADKAYA											2	4	1	3							26	26	26	29 (4*)	33 (4*)	4	37 (4*)	
<sup>45</sup> IMENI GASTELLO																	18	18	16				18	18				
<sup>45</sup> ITATKA							2	4			1	2											3	6				
KARTALY																		20	20	20				20 (2*)	20 (2*)			
KOSTROMA							4	8			2	4	1	3									7	15				
KOZELSK										3	6				2	6							5	12				
<sup>45</sup> NOVOSIBIRSK							1	2			2	4	2	6									5	12				
<sup>45</sup> OLOVYANNAYA													3	9						30	30	30	53 (2*)	59 (2*)	1	60(2*)		
OMSK															1	3							1	3				
<sup>45</sup> PERM							3	6			2	4	1	3						26	26	26	32	39	3	42 (4*)		
<sup>45</sup> PLESETSK*	4	4	2	4	1	2	1	2	2	4			1	3									11	19				
SHADRINSK													3	9									3	9				
<sup>45</sup> SVOBODNY							3	6			4	8	1	3									8	17	8	25		
<sup>45</sup> TATISHCHEVO																				60	60	60	60 (5*)	60 (5*)				
TEYKOVO							3	6			3	6											6	12				
TYUMEN									2	4													2	4				
<sup>45</sup> UZHUR																	23	23	17				23 (1*)	23 (1*)				
<sup>45</sup> VERKHNAYA SALDA					2	4	3	6			2	4	2	6									9	20				
YEDROVO							2	4			4	8	2	6									8	18				
YOSHKAR-OLA							3	6			3	6											6	12				
YURVA					2	4	3	6			3	6	3	9									11	25				
ZHANGIZ-TOBE																	15	15	15				15 (1*)	15 (1*)				
TOTALS	4	4	2	4	5	10	29	58	7	14	30	60	23	69	3	9	106	106	94	182	182	173	391(21*)	516(21*)	17	533(21*)		

\* DOES NOT INCLUDE 2 SSM PADS AT LAUNCH AREA F

\* POSSIBLE

☆ COVERED THIS MISSION

TOTAL SINGLE SILOS 305



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Table 2. Soviet MRBM and IRBM Deployment

Geographic Area	Soft MRBM Launch Areas	Soft IRBM Launch Areas	Hard MRBM Launch Areas	Hard IRBM Launch Areas	Total Launch Areas	Total Launch Positions
Western	120	11	18	10	159	624
Caucasus	3		2	3	8	29
Central Asia	2	3	1	3	9	33
Far Eastern	10	1		1	12	47
Totals	135	15	21	17	188	733

Totals do not include 94 fixed field-type sites with total of 352 launch positions and one launch facility at Sovetskaya Gavan

Table 3. SAM and ABM Deployment

	Country														Totals ***				
	USSR	Albania	Bulgaria	Czechoslovakia	Hungary	Poland	Rumania	Yugoslavia	China	Mongolia	North Korea	Indonesia	Egypt	Cuba			India	North Vietnam	
SA-1	56																56	Confirmed	
																			Probable
	1																	1	Possible
	*1018	2	19	23	16	30	18	5	16	1	3	5	31	**24	13	97	1375	Confirmed	
SA-2	5		1					1										8	Probable
	29							1					1	3	2	1		39	Possible
SA-3	112							2										112	Training ***
																			Confirmed
	1				1													2	Probable
	9																	9	Possible
SA-2 SAM Support Facilities	194	1	4	6	4	6	2	1		1	1	5	6	3	2		240	Training ***	
	1		2					1										4	Confirmed
	1																	1	Probable
SA-3 SAM Assembly Facilities	12																	12	Possible
																			Confirmed
±Long Range SAM	14																	14	Probable
	1																	1	Confirmed
	1																	1	Probable
±± ABM Complexes	1																	1	Possible
	4																	4	Confirmed
																			Probable

\*Does not include alternate sites, USSR  
 \*\*Does not include 29 abandoned sites  
 \*\*\*Total reflects individual sites

± Complexes are probably long range SAM associated  
 ±± Complexes are probably ABM associated

TOTALS AS OF MISSION 4027

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## **Missiles**



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MISSILES

PLESETSK ICBM COMPLEX

UR 6254N 04038E



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THE PREVIOUSLY REPORTED UNIDENTIFIED AREA 2 NM WSW OF THE COMPLEX SUPPORT FACILITY CAN NOW BE IDENTIFIED AS A PROBABLE ELECTRONIC FACILITY. IT CONTAINS 1 LARGE AND 6 SMALLER BUILDINGS. THE LARGE BUILDING HAS A PROBABLE RADAR RING PEDESTAL ON EACH END OF THE ROOF. THIS AREA IS CONNECTED TO LAUNCH POINT III BY A WELL-ENGINEERED DIRECT ACCESS ROAD. THE AREA DOES NOT APPEAR SECURED.

CONSTRUCTION CONTINUES AT THE UNIDENTIFIED ACTIVITY 1 NM SOUTH OF THE AIRFIELD. PHOTOGRAPHY OF POOR INTERPRETABILITY PRECLUDES A DETAILED INTERPRETATION.

NO NEW MISSILE-RELATED FACILITIES OBSERVED WITHIN THE LIMITS OF THE PHOTOGRAPHY.

(SEE ATTACHMENT)



25X1

PLESETSK ICBM LAUNCH AREA A (SITE 4)

UR 6258N 04046E

APRON IN FRONT OF MISSILE-READY BUILDINGS HAS BEEN CLEARED OF SNOW, AS HAS THE LEFT PAD.

NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.



25X1

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PLESETSK ICBM LAUNCH AREA B (SITE 5)

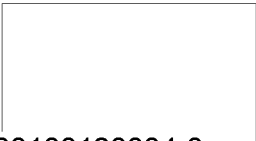
UR 6303N 04057E

PADS ARE CLEARED OF SNOW.

NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.



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PLESETSK ICBM LAUNCH AREA C (SITE 6)

UR 6300N 04052E

CONSTRUCTION APPEARS COMPLETE



NO MISSILES, MISSILE-RELATED EQUIPMENT, OR NEW CONSTRUCTION OBSERVED.

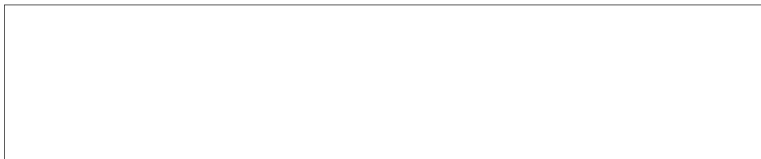


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25X1  
25X1

PLESETSK ICBM LAUNCH AREA D (SITE 8)

UR 6253N 04047E

NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.



25X1  
25X1

PLESETSK ICBM LAUNCH AREA E (SITE 7)

UR 6251N 04034E

NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.



25X1

PLESETSK SSM LAUNCH AREA F

UR 6252N 04044E

NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.



25X1

PLESETSK ICBM LCH AREA G (SITE 9)

UR 6253N 04051E

PROBABLE LAUNCH AREA G CAN NOW BE CONFIRMED. THE PROBABLE GANTRY CAN NOW BE CONFIRMED, AND TRACKS EXTEND

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FROM THE GANTRY TO THE LEFT PAD. DETAILS OF THE 2 PADS ARE OBSCURED BY SNOW. EACH OF THE PADS IS DIAGONALLY FLANKED BY 2 LATTICE TOWERS. THE LAUNCH AREA HAS 3 EARTH-BANKED STRUCTURES ORIENTED NORTH-SOUTH ALONG THE CENTER RAIL SPUR. A LARGE SUMP IS IMMEDIATELY NORTH OF THE NORTHERNMOST EARTH-BANKED STRUCTURE. DITCHING AND GROUND SCARRING ARE EVIDENT THROUGHOUT THE LAUNCH AREA. CONSTRUCTION IS CONTINUING. NO MISSILES OR MISSILE-RELATED EQUIPMENT OBSERVED.

(SEE ATTACHMENT)

25X1

PLESETSK ICBM LCH AREA H (SITE 10)

UR 6252N 04052E

25X1

PROBABLE LAUNCH AREA H CAN NOW BE CONFIRMED. A LARGE GANTRY, LIKE THE ONE AT LAUNCH AREA G, IS UNDER CONSTRUCTION BEHIND THE RIGHT PAD. DETAILS OF THE 2 PADS ARE OBSCURED BY SNOW. EACH OF THE PADS IS DIAGONALLY FLANKED BY 2 LATTICE TOWERS. THE LAUNCH AREA HAS 3 EARTH-BANKED STRUCTURES ORIENTED NORTH-SOUTH ALONG THE CENTER RAIL SPUR. A LARGE SUMP IS LOCATED IMMEDIATELY NORTH OF THE NORTHERNMOST EARTH-BANKED STRUCTURE. DITCHING AND GROUND SCARRING ARE EVIDENT THROUGHOUT THE LAUNCH AREA. CONSTRUCTION IS CONTINUING. NO PREVIOUSLY UNREPORTED MISSILES OR MISSILE-RELATED EQUIPMENT OBSERVED.

(SEE ATTACHMENT)

25X1

PLESETSK ICBM COMPLEX SUPPORT FACILITY

UR 6254N 04038E

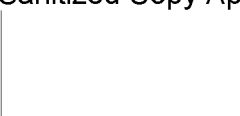
NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.

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PLESETSK ICBM LCH PTS I & II (SITE 1) UR 6255N 04027E

NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.



25X1  
25X1

PLESETSK ICBM LAUNCH POINT III (SITE 2) UR 6256N 04031E

NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.

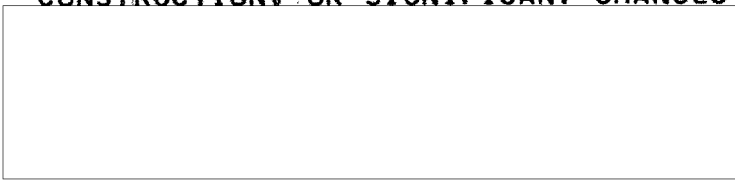
(SEE ATTACHMENT)



25X1

PLESETSK ICBM LAUNCH POINT IV (SITE 3) UR 6257N 04041E

NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.



25X1

PLESETSK ICBM RAIL-TO-ROAD TRANSFER POINT UR 6255N 04044E

NO MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.



25X1



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**TOP SECRET CHESS RUFF**

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TYURATAM MISSILE TEST CENTER

UR 4538N 06317E

THE RANGEHEAD FROM COMPLEX A WESTWARD IS COVERED. NO NEW MISSILE FACILITIES IDENTIFIED IN THAT PORTION OF THE SEARCH AREA COVERED ON THE PHOTOGRAPHY.

25X1



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TYURATAM LAUNCH COMPLEX A (SITES 1,15)

UR 4555N 06320E

THE COMPLEX SUPPORT FACILITY, LAUNCH PADS A1, A2, AND A4 ARE COVERED, BUT PAD A1 CAN BE IDENTIFIED ONLY AT THE EDGE OF THE FRAME. SEVERAL RAIL CARS AND UNIDENTIFIED EQUIPMENT ARE ON THE RAILS SERVING PAD A1.

NO MISSILES, NEW CONSTRUCTION, CHANGES IN FACILITIES, OR PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1



TYURATAM LAUNCH COMPLEX E (SITE 6)

UR 4557N 06311E

A PIECE OF EQUIPMENT, POSSIBLY A MISSILE DOLLY, IS ON THE RAIL LINE IN FRONT OF THE READY BUILDING FOR PAD E1. THREE SMALL VEHICLES/PIECES OF EQUIPMENT ARE PARKED ALONGSIDE OF THE READY BUILDING FOR PAD E2.

NO MISSILES, NEW CONSTRUCTION, CHANGES IN FACILITIES, OR PREVIOUSLY UNREPORTED FEATURES OBSERVED.

25X1



TYURATAM LAUNCH COMPLEX F (SITE 5)

UR 4601N 06305E

THREE VEHICLES/PIECES OF EQUIPMENT ARE PARKED WITHIN THE LOOP ROAD AND JUST EAST OF THE RIGHT SILO. NUMEROUS SMALL UNIDENTIFIED OBJECTS ARE RANDOMLY LOCATED ON AND NEAR THE HARDSTANDS SURROUNDING THE SILOS. NO MISSILES OR CHANGES IN FACILITIES OBSERVED.

25X1



25X1





TOP SECRET CHESS RUFF

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25X1  
25X1

25X1

25X1

TYURATAM LCH CPLX G (SITES 7,11,12,18,19) UR 4604N 06255E

LAUNCH AREA G1-G2 (SITE 7) -- THE LAUNCH AREA IS BEING ENLARGED AND NEW SECURITY FENCING IS IDENTIFIED ON THE NE AND NW SIDES. THE GANTRIES ARE LOCATED TO THE REAR OF THE PADS. A BUILDING APPROXIMATELY 50 X 40 FT IS UNDER CONSTRUCTION IN THE EXCAVATION FORWARD OF G1. NEW DITCHING EXTENDS EASTWARD AND THEN NORTHWARD FROM THE EARTH-MOUNDED BUILDING ON THE EAST SIDE OF G2. DITCHES, APPARENTLY FOR FOOTINGS, HAVE BEEN DUG AT THE SOUTH END OF THE MISSILE READY BUILDING FOR G2, SUGGESTING THAT THE BUILDING WILL BE EXTENDED IN THAT DIRECTION. A DITCH EXTENDS SOUTHWARD FROM ONE OF THE EARTH-MOUNDED BUILDINGS BETWEEN THE LAUNCH PADS. NUMEROUS UNIDENTIFIED VEHICLES ARE IN THE AREA. MISSILES IN A HORIZONTAL POSITION ARE LOCATED IN FRONT OF BOTH OF THE READY BUILDINGS. THE ONE AT G1 APPEARS TO HAVE MATED STAGES MEASURING [REDACTED] 30 FT IN LENGTH, AND IS IDENTIFIED AS THE FIRST TWO STAGES OF A POSSIBLE SCRAG. THE ONE AT G2 APPEARS TO BE THE SAME BUT THE STAGES ARE NOT MATED.

25X1

LAUNCH AREA G3-G4 (SITE 11) -- THE GANTRIES ARE LOCATED TO THE REAR OF THE PADS. EMPTY MISSILE-TRANSPORTING RAIL CARS ARE PRESENT TO THE REAR OF THE PAD AT G3 AND NEAR THE PAD AT G4. NUMEROUS PIECES OF UNIDENTIFIED EQUIPMENT ARE ON PAD G3 AND SEVERAL UNIDENTIFIED VEHICLES ARE PARKED NEAR THE HORIZONTAL TANKS EAST OF G4.

LAUNCH AREA G5-G6 (SITE 12) -- THE GANTRY IS POSITIONED AT THE REAR EDGE OF THE APRON AT G5. A PROBABLE MISSILE TRANSPORTER [REDACTED] IN LENGTH OVERALL IS PARKED ON G6. SIX UNIDENTIFIED VEHICLES/PIECES OF EQUIPMENT ARE PARKED IN THE NE CORNER OF THE AREA, AND 4 ARE PARKED IN THE SW CORNER. SIX SMALLER VEHICLES/PIECES OF EQUIPMENT ARE PARKED AT RANDOM IN THE AREA BETWEEN THE PADS. A CYLINDRICAL OBJECT APPROXIMATELY [REDACTED] FT IS POSITIONED EAST OF G6 NEAR THE SECURITY FENCE. THE OBJECT IS IN A HORIZONTAL POSITION AND APPEARS TO BE SIMILAR TO THE CYLINDERS SEEN PREVIOUSLY AT THIS LAUNCH AREA.

25X1

25X1

LAUNCH AREA G7 (SITE 18) -- THE LOOP ROAD SERVING THE SILO APPEARS TO BE COMPLETE AND A PARKING HARDSTAND HAS BEEN CONSTRUCTED ON THE WEST SIDE OF THE LOOP. THE

25X1

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LAUNCH AREA HAS A VERY CLUTTERED APPEARANCE WITH NUMEROUS VEHICLES/PIECES OF EQUIPMENT AND STACKS OF MATERIAL SCATTERED THROUGHOUT THE AREA. THE SILO DOOR IS OPEN. AN OPEN DITCH EXTENDS IN AN IRREGULAR PATH FROM A POINT NEAR THE SILO TO A POINT NEAR A NEW EARTH-MOUNDED, RECTANGULAR, PROBABLE STRUCTURE LOCATED ADJACENT TO THE CONTROL BUILDING. THE DITCH CONTAINS A CONDUIT. A SMALL SQUARE STRUCTURE IS LOCATED AT EACH POINT THAT THE CONDUIT CHANGES DIRECTION. AN OPEN TOPPED EARTH-BANKED BASIN/TANK 30 FT IN DIAMETER IS LOCATED JUST EAST OF THE CONTROL BUILDING. IT APPEARS TO BE SIMILAR IF NOT IDENTICAL TO THE ONE OBSERVED AT LAUNCH AREA 11.

G8-G9 (SITE 19) -- [REDACTED] THERE WERE 6 VEHICLES/PIECES OF EQUIPMENT ON THE APRON AT G8. ONE OF THESE IS A CRANE POSITIONED NEXT TO THE SILO. A PROBABLE TRANSPORTER IS BACKED UP NEXT TO THE CRANE AT THE SILO. A PROBABLE TRANSPORTER, SIMILAR IF NOT IDENTICAL TO THE ONE OBSERVED AT G6, IS PARKED NEAR THE WEST SECURITY FENCE. AT LEAST 11 OTHER UNIDENTIFIED VEHICLES/PIECES OF EQUIPMENT ARE IN AND ABOUT THE AREA. A RING, SIMILAR TO THOSE OBSERVED ON THE APRONS AROUND THE SILOS, IS LYING ON THE GROUND AT THE NE CORNER OF THE LAUNCH AREA. [REDACTED] AN UNIDENTIFIED PIECE OF EQUIPMENT, A CYLINDER APPROXIMATELY [REDACTED] IN LENGTH ON A TRANSPORTER, AND A PRIME MOVER ARE PARKED END-TO-END ON G9. A CRANE IS POSITIONED NEXT TO THIS LINE OF EQUIPMENT. THE VEHICLES/PIECES OF EQUIPMENT OBSERVED AT G8 ON THE PREVIOUS DAY ARE NO LONGER PRESENT.

COMPLEX SUPPORT FACILITY -- THERE ARE SEVERAL BUILDINGS UNDER CONSTRUCTION IN THE EAST-CENTRAL PORTION. A MISSILE-TRANSPORTING RAIL CAR, SIMILAR IF NOT IDENTICAL TO THOSE REPEATEDLY OBSERVED AT LAUNCH AREA G3-G4, IS PARKED ON THE RAIL SPUR AT THE UNIDENTIFIED FACILITY BETWEEN THE COMPLEX SUPPORT FACILITY AND LAUNCH AREA G1-G2. THIS FACILITY NOW CONSISTS OF A DRIVE-THROUGH BUILDING ON A LOOP ROAD, AND 2 CONCRETE ARCH-ROOFED BUILDINGS LOCATED NEAR THE END OF RAIL SPURS. THE ARCH-ROOFED BUILDINGS ARE DRIVE-THROUGH-TYPES AND ARE SERVED BY A LOOP ROAD PATTERN. AN EARTH-MOUNDED STRUCTURE, 2 PAIRS OF SUMPS, A SECURITY BUILDING, AND SEVERAL OTHER BUILDINGS ARE ALSO ASSOCIATED WITH THE FACILITY. THE PRESENCE OF THE MISSILE-TRANSPORTING RAIL CAR INDICATES THAT THIS FACILITY IS ASSOCIATED WITH LAUNCH AREA G3-G4. A POSSIBLE FUNCTION OF THIS FACILITY IS THE HANDLING OF CLUSTER ELEMENTS/UPPER

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25X1  
25X1

STAGES, THEREFORE, THE FACILITY IS TENTATIVELY IDENTIFIED AS A POSSIBLE COMPONENT CHECKOUT/HANDLING FACILITY.

REVETTED STORAGE AREA -- NO APPARENT CHANGE.

[REDACTED] THERE IS MORE VEHICULAR ACTIVITY THAN USUALLY OBSERVED. THERE ARE 3 VEHICLES PARKED IN FRONT OF THE WESTERN EARTH-MOUNDED BUILDING, 2 ON THE LOOP ROAD, AND SEVERAL OUTSIDE OF THE SECURITY FENCE NEAR THE SOUTH FENCE LINE.

25X1

AREA OF UNIDENTIFIED CONSTRUCTION [REDACTED]

[REDACTED] CONSTRUCTION CONTINUES. THE AREA IS NOW COMPLETELY ENCLOSED BY A SECURITY FENCE. ROOFING OF THE LOW BAY PORTION OF THE BUILDING HAS BEEN COMPLETED AT THE NORTH END. NEW OPEN DITCHING WITH POSSIBLE EXPANSION JOINT NOTCHES IS EVIDENT AT THE NORTH END OF THE LARGE BUILDING. THE WHOLE AREA STILL HAS A CLUTTERED APPEARANCE.

25X1  
25X1

NO OTHER MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.

(SEE ATTACHMENT)

[REDACTED]

25X1

TYURATAM LAUNCH COMPLEX J (SITE 31)

UR 4555N 06317E

25X1

CONSTRUCTION CONTINUES IN THE LAUNCH AREA. MOST OF THE BUILDINGS BETWEEN J1 AND J2 APPEAR TO BE INCOMPLETE AND THE AREA IS CLUTTERED WITH EQUIPMENT AND MATERIAL. EXTENSIVE DITCHING IS EVIDENT THROUGHOUT THE AREA. HOWEVER, PORTIONS OF THE CONDUIT DITCHES HAVE BEEN BACKFILLED. CONSTRUCTION IS IN PROGRESS AND WALLS ARE BEING RAISED ON THE SQUARE STRUCTURE LOCATED SLIGHTLY BELOW THE LIP OF THE EXCAVATION ON THE DOWNGRADE SIDE OF THE Y-SHAPED BLAST DEFLECTORS. CROSSMEMBERS ARE BEING INSTALLED ON ALL 3 OF THE ARMS OF THE BLAST DEFLECTOR AT J1, AND THE SIDE WALLS OF THE BLAST DEFLECTOR AT J2 ARE UNDER CONSTRUCTION. THE GANTRY TRACK FOOTINGS BETWEEN THE MISSILE ASSEMBLY BUILDING (MAB) AND J1 ARE NOT COMPLETE AND ARE INTERRUPTED BY EXCAVATIONS IN 2 PLACES. A WYE IN THE GANTRY TRACK FOOTINGS IS LOCATED IN FRONT OF THE MAB AND WILL PROVIDE ACCESS TO BOTH DOORS. HUNDREDS OF PIECES OF

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25X1

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EQUIPMENT AND CONSTRUCTION-TYPE VEHICLES ARE PARKED IN THE SUPPORT AREA. THREE BUILDINGS ON THE EAST SIDE OF THE MAB APPEAR TO BE COMPLETE AND 2 ON THE WEST SIDE ARE STILL UNDER CONSTRUCTION. CONSTRUCTION CONTINUES ON THE INCOMPLETE BUILDINGS IN THE AREA OF MULTISTORY BUILDINGS WEST OF THE MAB. CONSTRUCTION CONTINUES IN THE AREA OF UNIDENTIFIED CONSTRUCTION LOCATED 3.2 NM SSW OF THE MAB. IT NOW CONTAINS 4 CYLINDRICAL TANKS AND FOOTINGS FOR 2 MORE. THERE ARE 5 SMALL BUILDINGS IN THE AREA, AND PROBABLE FOOTINGS FOR 2 MORE. A DITCH EXTENDS GENERALLY SW AND TERMINATES AT A DRY LAKE. NO MISSILES, MISSILE-RELATED EQUIPMENT, OTHER NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.

25X1

TYURATAM LAUNCH COMPLEX K (SITES 13,20) UR 4601N 06303E

25X1

LAUNCH SITE K1 (SITE 13) APPEARS COMPLETE. SILO DOOR IS OPEN AND AT LEAST 6 VEHICLES/PIECES OF EQUIPMENT, INCLUDING A CRANE IN FRONT OF THE SILO, ARE LOCATED IN THE LAUNCH SITE. AN EARTH-MOUNDED STRUCTURE IS WEST OF THE LOOP ROAD AT THE POINT WHERE AN EXCAVATION WAS REPORTED.

25X1  
25X1

AT LAUNCH SITE K2 (SITE 13), THE SILO DOOR IS OPEN AND A CONSIDERABLE AMOUNT OF CONSTRUCTION MATERIAL IS LOCATED THROUGHOUT THE LAUNCH SITE. A PROBABLE EXHAUST VENT IS IDENTIFIED IN A CURVED PATTERN ON EITHER SIDE OF THE SILO APERTURE.

A VEHICLE/EQUIPMENT PARK CONTAINING AT LEAST 25 VEHICLES/PIECES OF EQUIPMENT IS LOCATED AT THE SOUTH END OF THE LAUNCH AREA BEHIND THE LARGE BUILDING. A POSSIBLE MISSILE TRANSPORTER IS PARKED OFF THE ROAD BETWEEN THE SECURITY FENCES.

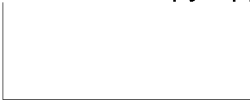
AT LAUNCH SITE K3 (SITE 20), A SILO COVER IS IDENTIFIED IN THE CLOSED POSITION. IT IS SIMILAR IN SIZE AND SHAPE TO THOSE SEEN AT THE L GROUP. A PAIR OF SMALL MOUNDS WITH UNIDENTIFIED OBJECTS ON TOP IS LOCATED BOTH TO THE NW AND TO THE SE OF THE SILO NEAR THE SILO ACCESS. TWO SMALL VEHICLES/PIECES OF EQUIPMENT ARE PARKED ON THE SILO ACCESS ROAD.

NO MISSILES, OTHER MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.

25X1

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25X1



25X1

MISSION 4027 20-25 APR 66



25X1

TYURATAM LAUNCH GROUP L (SITES 21-30)

UR 4603N 06259E



25X1

CONSTRUCTION CONTINUES AT ALL LAUNCH SITES. AT SITES L5 (SITE 25), L6 (SITE 26), L8 (SITE 28), L9 (SITE 23), AND L10 (SITE 24), A SMALL, NEARLY SQUARE EXCAVATION HAS BEEN DUG TO THE REAR OF THE DRIVE-IN BUILDING, BETWEEN IT AND THE SILO APRON, AND AN OPEN DITCH CONNECTS THE REAR OF THE DRIVE-IN BUILDING WITH THE SILO.

AT SITES L2 (SITE 27) AND L4 (SITE 21), A LATTICE TOWER IS LOCATED IN THE SAME RELATIVE POSITION AS THE OTHER SMALL EXCAVATIONS. AT SITES L2 (SITE 27) AND L4 (SITE 21), THE DRIVE-IN BUILDING HAS BEEN EARTH MOUNDED AND APPEARS COMPLETE.

AT SITES L1 (SITE 29), L3 (SITE 22), AND L7 (SITE 30), EARTH MOUNDING IS UNDERWAY ON THE DRIVE-IN BUILDINGS, WHILE AT SITES L5, L6, L8, L9, AND L10, EARTH MOUNDING HAS NOT YET STARTED.

AT LAUNCH SITE L1, OPEN DITCHING PARALLELS THE SITE ACCESS ROAD TO THE ENTRANCE WHERE IT TURNS WEST ALONG THE FENCE LINE TO THE CORNER. ANOTHER OPEN DITCH EXTENDS FROM THE SOUTH END OF THE SOUTHERNMOST BUILDING ALONG THE ACCESS ROAD WEST TO THE FENCE LINE.

SEVERAL VEHICLES/PIECES OF EQUIPMENT ARE LOCATED IN AND ABOUT MOST OF THE LAUNCH SITES.

NO MISSILES, OTHER MISSILE-RELATED EQUIPMENT, OTHER NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.



25X1

TYURATAM LCH COMPLEX M (SITES 33,34,37)

UR 4603N 06302E



25X1

SITE M1 (SITE 33) NOW CONTAINS A DOUBLY FENCED, SECURED AREA LARGE ENOUGH TO CONTAIN AN INTERFEROMETER. A BUILDING MEASURING APPROXIMATELY 155 X 40 FT IS UNDER CONSTRUCTION BETWEEN THE FENCES IN THE SW CORNER OF THE SITE. A SMALL, NEARLY SQUARE BUILDING IS LOCATED ABOUT ONE-THIRD OF THE DISTANCE FROM THE SITE EXCAVATION TO



25X1

**TOP SECRET CHESS RUFF**

MISSION 4027 20-25 APR 66

25X1  
25X1

THE SW FENCE CORNER.

AT SITE M2 (SITE 34), THE ORIGINAL SILO EXCAVATION HAS BEEN EXPANDED BY THE DIGGING OF ANOTHER EXCAVATION MORE OR LESS CONTIGUOUS WITH, BUT OFF SET TO, THE SE OF IT. A CRANE AND SEVERAL SECTORS OF PROBABLE SILO CASING ARE ADJACENT TO THE SILO. THE LAUNCH SITE IS DOUBLY FENCED AND AN OPEN DITCH EXTENDS SOUTH FROM THE COMPLEX G MAIN ROAD TO JUST INSIDE THE NORTHERN FENCE LINE. A SMALL RECTANGULAR BUILDING IS LOCATED ALONG THE INNER FENCE ON THE WEST SIDE OF THE LAUNCH SITE.

AT SITE M3 (SITE 37), ANOTHER EXCAVATION IS BEING DUG ADJACENT TO THE SW CORNER OF THE ORIGINAL EXCAVATION. THE SITE IS DOUBLY FENCED AND A SMALL RECTANGULAR BUILDING IS UNDER CONSTRUCTION ALONG THE INNER FENCE ON THE EAST SIDE OF THE LAUNCH SITE. A POSSIBLE BUILDING FOOTING AND SMALL SQUARE EXCAVATION ARE LOCATED BETWEEN THE FENCES ON THE SOUTH SIDE OF THE SITE. A ROAD IS BEING CONSTRUCTED EAST FROM THE ACCESS ROAD TO SITE L3 GENERALLY TOWARD SITE M3.

SILOS AT ALL 3 SITES OF COMPLEX M MEASURE APPROXIMATELY [REDACTED] NO MISSILES, MISSILE-RELATED EQUIPMENT, OTHER NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.

25X1

(SEE ATTACHMENT)

[REDACTED]

25X1

PERM ICBM COMPLEX

UR 5742N 05619E

CONTINUING ANALYSIS OF THIS COMPLEX REVEALS A TYPE IIID LAUNCH SITE (40) IN A MID-STAGE OF CONSTRUCTION AT 57-50N 056-18E.

[REDACTED]

25X1

25X1

OLOVYANNAYA ICBM COMPLEX

UR 5049N 11550E

A TYPE IIID SITE (551) IS NEWLY IDENTIFIED IN AN EARLY STAGE OF CONSTRUCTION. IT IS LOCATED 16 NM NE OF THE COMPLEX SUPPORT FACILITY AT 50-58N 116-11E. ONE BUILDING IS OBSERVED. THE SITE IS ENCLOSED BY A SECURITY FENCE LARGE ENOUGH TO ACCOMMODATE AN L-SHAPED

25X1

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25X1  
25X1

ELECTRONIC FACILITY.

NO OTHER NEW MISSILE FACILITIES OBSERVED IN THE SEARCH AREA COVERED ON PHOTOGRAPHY.

25X1

OLOVYANNAYA ICBM LAUNCH AREA A (SITE 1) UR 5054N 11548E

NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR CHANGES IN EXISTING FACILITIES OBSERVED.

25X1

25X1

OLOVYANNAYA ICBM LAUNCH AREA B (SITE 2) UR 5055N 11544E

NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR CHANGES IN EXISTING FACILITIES OBSERVED.

25X1

OLOVYANNAYA ICBM LAUNCH AREA C (SITE 3) UR 5101N 11558E

NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR CHANGES IN EXISTING FACILITIES OBSERVED.

25X1

OLOVYANNAYA ICBM LAUNCH GROUP D UR 5104N 11604E

LAUNCH SITES D1 (SITE 4), D2 (SITE 5), D8 (SITE 12), D9 (SITE 13), AND D10 (SITE 11) ARE NOT COVERED. LAUNCH SITES D3 (SITE 7) AND D6 (SITE 10) CAN BE IDENTIFIED ONLY. SITES D4 (SITE 8) AND D5 (SITE 9) REMAIN IN A LATE STAGE OF CONSTRUCTION AND STATUS OF CONSTRUCTION OF D7 (SITE 6) IS UNDETERMINED.

NO MISSILES OR MISSILE-RELATED EQUIPMENT OBSERVED.

25X1

25X1

**TOP SECRET CHESS RUFF**

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25X1  
25X1

OLOVYANNAYA ICBM LAUNCH GROUP E

UR 5056N 11558E

LAUNCH SITES E1 (SITE 17), E5 (SITE 19), AND E8 (SITE 21) HAVE PROGRESSED FROM A MID-STAGE OF CONSTRUCTION TO THE LATE STAGE. SITE E10 (SITE 23) IS IN AN UNDETERMINED STAGE OF CONSTRUCTION. CONSTRUCTION CONTINUES ON ALL OTHER SITES. THE CONTROL BUILDING AT SITE E1 (SITE 17) DOES NOT APPEAR TO BE EARTH COVERED.

NO MISSILES OR MISSILE-RELATED EQUIPMENT OBSERVED.

25X1

25X1

OLOVYANNAYA ICBM LAUNCH GROUP F

UR 5051N 11551E

NO MISSILES OR MISSILE-RELATED EQUIPMENT OBSERVED.

ALL LAUNCH SITES EXCEPT F2 (SITE 35) CAN BE IDENTIFIED ONLY. SITE F2 REMAINS IN A MID-STAGE OF CONSTRUCTION.

SITE F7 (SITE 40) IS NOW A CONFIRMED CONTROL SITE WITH THE L-SHAPED ELECTRONIC FACILITY APPARENT. DITCHING CONNECTS CONTROL BUILDING TO 2 ARCH-ROOFED BUILDINGS. A SMALL ARCH-ROOFED BUILDING IS ON THE LIP OF THE CONTROL BUILDING EXCAVATION AND ANOTHER SMALL ARCH-ROOFED BUILDING IS LOCATED NW OF THE TWO PARALLEL ARCH-ROOFED BUILDINGS. VEHICLES ARE PARKED

TWO OF THE THREE BUILDINGS PREVIOUSLY THOUGHT TO BE DRIVE-IN NOW APPEAR TO BE DRIVE-THROUGH. AT LEAST FOUR CYLINDRICAL OBJECTS ARE LOCATED NEAR THE REAR BUILDING.

25X1  
25X1

25X1

OLOVYANNAYA ICBM LAUNCH GROUP G

UR 5043N 11544E

LAUNCH SITES G1 (SITE 25), G2 (SITE 26), G3 (SITE 27), G5 (SITE 29), AND G7 (SITE 31) HAVE PROGRESSED FROM A MID-STAGE OF CONSTRUCTION TO A LATE STAGE. LAUNCH SITES G4 (SITE 28), G6 (SITE 30), AND G10 (SITE 34) REMAIN IN A MID-STAGE OF CONSTRUCTION. LAUNCH SITES G8 (SITE 32) AND G9 (SITE 33) ARE NOT COVERED.

NO MISSILES OR MISSILE-RELATED EQUIPMENT OBSERVED.

25X1

25X1



**TOP SECRET CHESS RUFF**

25X1



25X1

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OLOVYANNAYA ICBM LAUNCH GROUP H

UR 5040N 11558E

LAUNCH SITES H6 (SITE 45) AND H7 (SITE 51) CAN BE IDENTIFIED ONLY. OTHER SITES ARE NOT COVERED.



25X1

25X1

OLOVYANNAYA ICBM COMPLEX SUPPORT FACILITY UR 5049N 11550E

NO MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR CHANGES IN FACILITIES OBSERVED.



25X1

OLOVYANNAYA ICBM RAIL-TO-ROAD TSFR POINT UR 5050N 11552E

THE 2 ARCH-ROOFED BUILDINGS ARE COMPLETE. NO MISSILES OR MISSILE-RELATED EQUIPMENT OBSERVED.



25X1

DOMBAROVSKIY ICBM COMPLEX

UR 5101N 05950E

LAUNCH SITE 16 REMAINS IN AN EARLY STAGE OF CONSTRUCTION. NO MISSILES OR MISSILE-RELATED EQUIPMENT OBSERVED.

NO OTHER NEW MISSILE FACILITIES OBSERVED.



25X1

DOMBAROVSKIY ICBM LAUNCH AREA C (SITE 2) UR 5101N 05941E

FOUR POSSIBLE VEHICLES OBSERVED AT LAUNCH SITE. NO MISSILES, NEW CONSTRUCTION, OR OTHER SIGNIFICANT FEATURES OBSERVED.



25X1

DOMBAROVSKIY ICBM LAUNCH AREA D (SITE 1) UR 5058N 05932E

SITE REMAINS IN A MID-STAGE OF CONSTRUCTION. TWO SECTIONS OF THE SILO LINER ARE ON THE RECTANGULAR EARTH MOUND NW OF THE SILO. A POSSIBLE VERTICAL BOOM IS

25X1



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25X1



25X1

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LOCATED ON THE SW SIDE OF THE SILO EDGE. NO MISSILES OR OTHER SIGNIFICANT FEATURES OBSERVED.



25X1

DOMBAROVSKIY ICBM LAUNCH AREA I (SITE 8) UR 5102N 05957E

SITE REMAINS IN A MID-STAGE OF CONSTRUCTION.

NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.



25X1

25X1

DOMBAROVSKIY ICBM LAUNCH AREA J (SITE 9) UR 5105N 05950E

SITE REMAINS IN A MID-STAGE OF CONSTRUCTION. ELECTRONIC FACILITY IS STILL UNDER CONSTRUCTION.

NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.



25X1

DOMBAROVSKIY ICBM LAUNCH AREA K (SITE 12) UR 5110N 05957E

SITE REMAINS IN MID-STAGE OF CONSTRUCTION. NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.



25X1

DOMBAROVSKIY ICBM LAUNCH AREA L (SITE 13) UR 5105N 06004E

THE LAUNCH SITE IS NOW IN A MID-STAGE OF CONSTRUCTION. NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, CHANGES IN FACILITIES OR PREVIOUSLY UNREPORTED FEATURES, OTHER THAN THOSE NOTED, OBSERVED.



25X1



25X1

**TOP SECRET CHESS RUFF**

25X1



25X1

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DOMBAROVSKIY ICBM LAUNCH AREA M (SITE 14) UR 5050N 05935E

25X1

SITE IS IN AN EARLY STAGE OF CONSTRUCTION. THERE ARE 5 LONG BUILDINGS IN THE SUPPORT FACILITY, 3 OF WHICH ARE UNDER CONSTRUCTION, AND 2 BUILDINGS IN THE SITE SECURED AREA.

NO MISSILES, MISSILE-RELATED EQUIPMENT, OR OTHER SIGNIFICANT FEATURES OBSERVED.



25X1

DOMBAROVSKIY ICBM COMPLEX SUPPORT FAC UR 5101N 05950E

NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.



25X1

DOMBAROVSKIY ICBM RAIL-TO-ROAD TSFR POINT UR 5101N 05947E

AN UNIDENTIFIED VEHICLE IS LOCATED IN THE AREA IMMEDIATELY IN FRONT OF THE MOUNDED BUILDING IN THE



25X1

NO MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, CHANGES IN FACILITIES, OR PREVIOUSLY UNREPORTED FEATURES OBSERVED.



25X1

KAPUSTIN YAR SAM LAUNCH COMPLEX UR 4848N 04545E

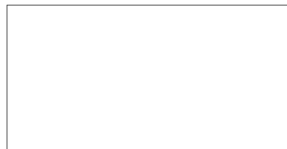
COMPLEX IS 95 PERCENT COVERED ON 100 PERCENT CLEAR, STEREOSCOPIC PHOTOGRAPHY OF GOOD INTERPRETABILITY.

THE PRECISION TRACKING RADAR SITE SHOWS NO SIGNIFICANT CHANGE



25X1

THE PROBABLE LONG RANGE SAM LAUNCH AREA, PREVIOUSLY REPORTED AS THE NEW-TYPE SAM LAUNCH AREA CAN NOW BE RELATED TO THE 16 (14 CONFIRMED, 1 PROBABLE, AND 1 POSSIBLE) LONG RANGE SAM COMPLEXES IN THE SOVIET UNION, DUE IN PART TO THE OBVIOUS PRESENCE OF A VEE OR FORKED PATTERN (PROBABLE TRACK BEDS FOR DOLLIES) AND THE PRESENCE OF TRACKING/GUIDANCE RADARS WHICH ARE THE SAME



25X1

**TOP SECRET CHESS RUFF**

25X1

25X1

MISSION 4027 20-25 APR 66

AS THOSE AT LAUNCH COMPLEX A, SARY-SHAGAN, LENINGRAD NW, TALLINN, AND CHEREPOVETS. IN ADDITION, THE ARRANGEMENT OF THE RADARS WITH RESPECT TO EACH OTHER AND THE LAUNCH AREA APPROXIMATE THE DISTANCES AND CONFIGURATION OF LAUNCH SITES 3 AND 4, LAUNCH COMPLEX A, SARY-SHAGAN. ALL OF THE AREAS MENTIONED ABOVE, AS WELL AS KAPUSTIN YAR, ARE BEGINNING TO ASSUME A STRONG AIR DEFENSE CHARACTER.

THE EASTERNMOST ELEVATED PLATFORM (BEER CAN) AT THE ELECTRONIC SITE CAN BE OBSERVED SUPPORTING A LARGE BACK-TO-BACK ANTENNA THAT APPEARS TO BE SIMILARLY CONFIGURED, IF NOT IDENTICAL, TO THAT AT ELECTRONIC SITE C, LAUNCH COMPLEX A, SARY-SHAGAN. THE CURVED FEED IS NOT VISIBLE, HOWEVER. THIS ANALYSIS IS DERIVED FROM NON-STEREO COVERAGE WITH SHADOWS. THE ANTENNA WAS PROBABLY PRESENT [REDACTED] BUT WAS NOT PRESENT ON [REDACTED] A 50-FT DIAMETER

25X1

25X1

ENVIRONMENTAL DOME CAN BE IDENTIFIED ON THE WESTERNMOST ELEVATED PLATFORM. IT IS A PROBABLE PRECISION TRACKING RADAR WHICH WAS FIRST OBSERVED ON [REDACTED] IT WAS NOT PRESENT ON [REDACTED] THE

25X1

25X1

SEPARATELY SECURED AREA TO THE NE REMAINS IN AN EARLY STATE OF CONSTRUCTION WITH ITS FUNCTION STILL UNDETERMINED. A COMMUNICATIONS AREA, A POSSIBLE ATHLETIC FIELD, UNIDENTIFIED RADAR, UNIDENTIFIED ELECTRONICS, AND NUMEROUS PIECES OF UNIDENTIFIED EQUIPMENT CAN BE NEWLY DISCERNED AT THE SITE. NO CHANGE IN FACILITIES OBSERVED AT THE SA-1 (HERRINGBONE) LAUNCH AREA, ALTHOUGH 38 GUILD MISSILES ARE OBSERVED ON THE LAUNCH AREA RIB ROADS.

NO CHANGE IN FACILITIES OBSERVED AT THE R&D LAUNCH AREA. HOWEVER, THE ADDITIONAL LAUNCHER PRESENT AT LAUNCH SITE A ON [REDACTED] IS NOT PRESENT. THE 2 RADARS ON MOUNDS AT LAUNCH SITE B CAN NOW BE IDENTIFIED AS A BAR LOCK AND A PROBABLE STONE CAKE. THE LOW BLOW GUIDANCE RADAR UNIT REMAINS IN THE CENTRAL GUIDANCE AREA. THE CENTRAL GUIDANCE AREA AT LAUNCH SITE F IS OCCUPIED BY BOTH FAN SONG AND LOW BLOW GUIDANCE RADAR UNITS. FOUR PROBABLY ELECTRONIC-ASSOCIATED VANS OCCUPY THE WESTERNMOST LAUNCH POSITION. THE PREVIOUSLY IDENTIFIED PROBABLE ACQUISITION RADAR TOWER, WHICH IS CONNECTED BY CABLE TO THE CENTRAL GUIDANCE AREA AT LAUNCH SITE F, CAN NOW BE ANALYZED TO BE EITHER A MICROWAVE OR CALIBRATION TOWER. ONE OF THE 2 LARGE MISSILE HOLD POSITIONS IS OCCUPIED BY AT LEAST 8 SETS OF BOGIE WHEELS WHILE THE OTHER IS OCCUPIED BY 5 SA-1 MISSILES ON TRANSPORTERS, 6 SA-1

25X1

**TOP SECRET CHESS RUFF**

25X1

25X1

**TOP SECRET CHESS RUFF**

25X1

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MISSILES NOT ON TRANSPORTERS, AND FOURTEEN  
LONG MISSILES OR MISSILE COMPONENTS.

25X1

IN THE SA-2 LAUNCH AREA, THE CENTRAL GUIDANCE AREA AT LAUNCH SITE B IS OCCUPIED BY A FAN SONG GUIDANCE RADAR UNIT. THREE OF THE LAUNCH POSITIONS, ALL UNREVIEWED, ARE OCCUPIED BY LAUNCHERS. TWO LAUNCHERS PROBABLY HAVE GUIDELINE MISSILES ON THEM. THE CENTRAL GUIDANCE AREA AT LAUNCH SITE F IS OCCUPIED BY A FAN SONG GUIDANCE RADAR UNIT AND 3 OF ITS 5 UNREVIEWED LAUNCH POSITIONS ARE OCCUPIED BY PROBABLE GUIDELINE MISSILES ON LAUNCHERS. THE CENTRAL GUIDANCE AREA AT LAUNCH SITE A IS OCCUPIED BY A FAN SONG RADAR GUIDANCE UNIT AND 2 OCCUPIED LAUNCH POSITIONS. ONE OF THE 2 LAUNCHERS IS OCCUPIED BY A PROBABLE GUIDELINE MISSILE. TWO FAN SONG RADARS AND 13 ELECTRONIC-ASSOCIATED VANS ARE LOCATED BETWEEN LAUNCH SITES A AND C. THE UNREVIEWED CENTRAL GUIDANCE AREA AT LAUNCH SITE C IS OCCUPIED BY A PROBABLE FAN SONG GUIDANCE RADAR, A PROBABLE LOW BLOW GUIDANCE RADAR, AND 10 ELECTRONIC SUPPORT VANS. THE 4 UNREVIEWED LAUNCH POSITIONS AT THE SITE ARE OCCUPIED BY GUIDELINE MISSILES ON LAUNCHERS. TEN GUIDELINE MISSILES ARE ON THE LAUNCH AREA HARDSTANDS.

IN THE SA-3 LAUNCH AREA, THE TOWER AT LAUNCH SITE B IS UNOCCUPIED ALTHOUGH 2 ELECTRONIC SUPPORT VANS CAN BE OBSERVED ON THE GROUND. TWO AND POSSIBLY 3 OF THE SITE LAUNCH POSITIONS ARE OCCUPIED BY LAUNCHERS. THE CENTRAL GUIDANCE AREA AT LAUNCH SITE A IS OCCUPIED BY A LOW BLOW GUIDANCE RADAR UNIT AND 2 OF THE SITE LAUNCH POSITIONS ARE OCCUPIED BY LAUNCHERS. THE CENTRAL GUIDANCE AREA AT LAUNCH SITE C IS OCCUPIED BY A LOW BLOW GUIDANCE RADAR UNIT AND ONE OF THE SITE LAUNCH POSITIONS IS OCCUPIED BY UNIDENTIFIED VEHICLES/PIECES OF EQUIPMENT. THE OTHER 3 LAUNCH POSITIONS EACH HAVE THE TWO [REDACTED] VANS FIRST NOTED [REDACTED]

25X1

[REDACTED] PARKED ADJACENT TO THEM. THE CENTRAL GUIDANCE AREA AT LAUNCH SITE D IS OCCUPIED BY A FAN SONG GUIDANCE RADAR UNIT AND EACH OF ITS LAUNCH POSITIONS HAS THE TWO [REDACTED] VANS PARKED ADJACENT TO IT.

25X1

25X1

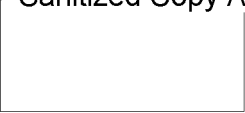
NO SIGNIFICANT CHANGES SINCE [REDACTED] CAN BE OBSERVED AT THE SAM HOUSING AND SUPPORT AREA, THE SAM WARHEAD AREA, THE YO-YO GUIDANCE AREAS, AND THE SAM CHECKOUT AND STORAGE AREA. THE OPERATIONAL SA-2 SITE, NORTH OF THE SAM HOUSING AND SUPPORT AREA, IS COMPLETELY UNOCCUPIED. THE SAM MARSHALLING AREA HAS 10 SA-2 LAUNCH UNITS, THREE SA-3 LAUNCH UNITS, 8 SCORPION-TYPE LAUNCHERS, 20 ELECTRONIC VANS, AND

25X1

25X1

**TOP SECRET CHESS RUFF**

25X1



25X1

MISSION 4027 20-25 APR 66

APPROXIMATELY 40 OTHER VEHICLES/PIECES OF EQUIPMENT. NO ACTIVITY CAN BE NOTED ON THE NEWLY CONSTRUCTED HARDSTAND.

THE PORTION OF KAPUSTIN YAR AIRFIELD WHICH CAN BE OBSERVED HAS 4 PROBABLE HOUND HELICOPTERS.

INSTRUMENTATION SITES 2, 3, 4, 5, 6, 7, 8, 9, 12, AND 13 ARE ALL COVERED AND SHOW NO SIGNIFICANT CHANGE.

FORMERLY DESIGNATED SA-3 TRAINING SITES A AND B (NOW DESIGNATED AS KAPUSTIN YAR MISSILE TEST CENTER SAM SITES C28-3 AND B31-3) EACH HAVE PROBABLE FAN SONG GUIDANCE RADAR UNITS IN THEIR CENTRAL GUIDANCE AREAS AND NO OCCUPIED LAUNCH POSITIONS. INSTRUMENTATION SITE 1 HAS RETURNED TO ITS NATURAL STATE AND IS DROPPED FROM NPIC LISTINGS.

(SEE ATTACHMENT)



25X1

SARY-SHAGAN ANTIMISSILE TEST CENTER

UR 4602N 07334E

THE ONLY FACILITIES COVERED AT THE TEST CENTER BY THIS MISSION, WHICH RANGES FROM GOOD-TO-POOR INTERPRETABILITY, INCLUDE LAUNCH COMPLEX B AND INSTRUMENTATION SITE 4 ON [REDACTED] AND THE AREA CLOSE TO LAKE BALKHASH FROM PROBABLE LONG RANGE SAM LAUNCH COMPLEX 1 SOUTH TO AND INCLUDING INSTRUMENTATION SITE 2 [REDACTED] SITE 13 IS ALSO COVERED.

25X1

25X1

25X1

NO NEW MISSILE FACILITIES OBSERVED IN VISIBLE PORTIONS OF THE SEARCH AREA.



25X1

SARY-SHAGAN PROB LONG RANGE SAM LCH CPLX 1 UR 4605N 07327E

THE LAUNCH AREA IS THE ONLY PORTION OF THE COMPLEX COVERED. THE ASSOCIATED ELECTRONIC SITE AND THE BACK NET/SIDE NET SITE 2.5 NM TO THE NW ARE NOT COVERED. COVERAGE OF THE LAUNCH AREA IS OF POOR INTERPRETABILITY, OBLIQUE, NON-STEREO, AND ON THE EDGE OF THE FRAME.

25X1



**TOP SECRET CHESS RUFF**

25X1

25X1

MISSION 4027 20-25 APR 66

AT LAUNCH SITE A, POSITION 1 APPEARS TO BE OCCUPIED BY A LAUNCHER. OCCUPANCY OF THE REMAINING LAUNCH POSITIONS AND THE CENTRAL REVETTED AREA CANNOT BE DETERMINED. EIGHT VEHICLES/PIECES OF EQUIPMENT ARE OBSERVED ON THE SITE SERVICE ROADS.

ALL LAUNCH POSITIONS AT LAUNCH SITE B ARE OCCUPIED, PRESUMABLY BY A LAUNCHER AND 2 PROBABLE DOLLIES. ALL PROBABLE DOLLIES ARE AT THE EXTREMITIES OF THE FORKED PATTERNS AT ALL POSITIONS EXCEPT AT POSITION 3 WHERE ONE HAS MOVED FORWARD. THE CENTRAL REVETTED AREA IS OCCUPIED.

ACTIVITY HAS TAKEN PLACE AT LAUNCH SITE C SINCE [REDACTED] AT POSITIONS 1 AND 2, ONE OF THE 2 PROBABLE DOLLIES HAS MOVED FORWARD ALONG THE PROBABLE RAIL LINE SINCE [REDACTED] POSITIONS 3 THROUGH 6 ARE OCCUPIED WITH WHAT APPEARS TO BE A LAUNCHER AND 2 PROBABLE DOLLIES AT THE ENDS OF THE FORKED PATTERN. THE CENTRAL REVETTED AREA IS OCCUPIED.

25X1

25X1

25X1

25X1

SHUANG-CHENG-TZU MISSILE TEST CENTER

CH 4107N 10020E

25X1

THE REVETTED STORAGE AREA, REVETTED STORAGE AND HANDLING AREA, AND RANGEHEAD TRANSMITTING COMMUNICATIONS SITE ARE COVERED ON PHOTOGRAPHY OF FAIR-TO-POOR INTERPRETABILITY.

A 15 X 30 NM SECTION APPROXIMATELY 2 NM NORTH OF THE CENTER OF THE 50-NM SEARCH AREA IS COVERED. NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.

25X1

SHUANG-CHENG-TZU MTC LCH CPLX A (SITE 1)

CH 4114N 10017E

ACTIVITY OF AN UNIDENTIFIED NATURE JUST WEST OF THE LAUNCH STAND HAS DISRUPTED THE APPEARANCE OF 2 OF THE CONCRETE SQUARES AT LAUNCH PAD A-1. TWO UNIDENTIFIED VEHICLES ARE PARKED IN A DRIVE-IN REVETMENT JUST SOUTH OF THIS PAD. AN UNIDENTIFIED VEHICLE/PIECE OF EQUIPMENT IS LOCATED ON PAD A-2. NO MISSILES, NEW CONSTRUCTION, OR CHANGES IN FACILITIES OBSERVED.

25X1

**TOP SECRET CHESS RUFF**

25X1

**TOP SECRET CHESS RUFF**

MISSION 4027 20-25 APR 66

25X1

[REDACTED]

25X1

SHUANG-CHENG-TZU MTC LCH CPLX B (SITE 2) CH 4115N 10018E

25X1

AT LAUNCH COMPLEX B, CONSTRUCTION APPEARS TO BE PROCEEDING AT A MODERATE RATE. THE NORTHERN RAIL SPUR HAS BEEN EXTENDED TO THE SW. AT LEAST 5 RAIL CARS LOADED WITH CONSTRUCTION MATERIALS OBSERVED JUST EAST OF THE HAMMERHEAD CRANE. THE PREVIOUSLY MENTIONED FOOTING APPROXIMATELY 240 X 55 FT HAS BEEN EXTENDED AND MAY BE THE BASE FOR THE APPROACH TO A NEW LAUNCH POSITION. TO THE SW OF THE FOOTING, THERE IS A LARGE DEEP EXCAVATION FOR A POSSIBLE FLAME PIT. THE IRREGULAR-SHAPED CONSTRUCTION BUILDING FORMERLY LOCATED SE OF THE FOOTING HAS BEEN REMOVED. TWO CIRCULAR EXCAVATIONS TO THE SOUTH OF THE HAMMERHEAD CRANE ARE POSSIBLY FOR BURIED TANKS. ADDITIONAL EXCAVATIONS IN THE AREA ARE PROBABLY FOR OTHER PERMANENT FACILITIES. THE SOUTHERN RAIL SPUR APPEARS TO HAVE RAILS IN POSITION FOR APPROXIMATELY HALF OF ITS LENGTH. TWO BUILDINGS, 1 COMPLETED SINCE [REDACTED] ARE LOCATED NORTH OF THE ACCESS ROAD. A FEW BUILDINGS HAVE BEEN ADDED TO THE CONSTRUCTION CAMP. TWO CRANES AND NUMEROUS VEHICLES/PIECES OF EQUIPMENT ARE IN THE AREA. NO MISSILES OR MISSILE-RELATED EQUIPMENT OBSERVED.

25X1

(SEE ATTACHMENT)

[REDACTED]

25X1

SHUANG-CHENG-TZU MTC LCH CPLX C (SITE 3) CH 4118N 10017E

25X1

IDENTIFICATION ONLY.

[REDACTED]

25X1

SHUANG-CHENG-TZU SSM-SAM ASBLY & CHECK CPX CH 4106N 10016E

ONLY THE WESTERN HALF OF THE SAM ASSEMBLY AND CHECKOUT AREA OF THE SSM-SAM ASSEMBLY AND CHECKOUT COMPLEX CAN BE SEEN THROUGH HAZE.

NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, OR SIGNIFICANT CHANGES OBSERVED.

25X1

[REDACTED]

25X1



**TOP SECRET CHESS RUFF**

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KAMCHATKA PENINSULA MISSILE IMPACT AREA UR 5722N 16143E

A COMPARISON OF [REDACTED] AND THIS MISSION REVEALS 2 NEW IMPACT CRATERS NEAR THE CENTER OF THE IMPACT AREA. THE DIAMETER OF ONE CRATER MEASURES APPROXIMATELY 40 FT. THE SECOND CRATER COULD NOT BE MEASURED.

(SEE ATTACHMENT)

EMBA MSL TEST CENTER LAUNCH AREA UR 4831N 05801E

TWO PROBABLE GANEF MISSILES ARE OBSERVED ON A TRANSPORTER-LAUNCHER IN THE CENTER OF THE WESTERN LAUNCH PAD (PAD A-1). APPROXIMATELY 150 FT SE OF PAD A-1 ARE 2 PROBABLE TRANSPORTER-LAUNCHERS (1 WITH 2 PROBABLE GANEF MISSILES MOUNTED ON IT). SEVERAL UNIDENTIFIED VEHICLES/PIECES OF EQUIPMENT ARE OBSERVED ON PAD A-2 AND ALSO ON THE HARDSTAND IN FRONT OF THE CONTROL BUNKER. NO ACTIVITY IS APPARENT AT THE 2 NEW POSSIBLE PADS LOCATED ON A LINE WITH, AND OUTBOARD OF, THE ORIGINAL 2 LAUNCH PADS. THE PREVIOUSLY REPORTED CONSTRUCTION ACTIVITY CONTINUES IN THE VICINITY OF THE CHECKOUT AREA.

(SEE ATTACHMENT)

PETROPAVLOVSK NAVAL BASE TARYA BAY UR 5255N 15830E

NO APPARENT CHANGE IN FACILITIES.

OB -- [REDACTED] -- 2 PROBABLE E-CLASS SSGN, 2 POSSIBLE G-CLASS SSB, 1 LARGE SS IN A BERTH PREVIOUSLY OCCUPIED BY NUCLEAR SUBMARINES, 4 W-CLASS SS, 5 UNIDENTIFIED SS, 1 POSSIBLE DD, 1 DON-CLASS AS, 1 NEVA-CLASS AS, 1 PROBABLE ZEYA-CLASS YRSN, 1 BOLVA-CLASS APL, 1 OCCUPIED FLOATING DOCK, 1 TRANSPORTER DOCK OCCUPIED BY 2 SMALL SURFACE VESSELS, 8 UNIDENTIFIED SURFACE VESSELS, AND A FLOATING CRANE. POOR VESSEL/WATER CONTRAST PRECLUDES FURTHER IDENTIFICATION.



**TOP SECRET CHESS RUFF**



25X1  
25X1

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25X1

PETROPAVLOVSK NAVAL MISSILE STORAGE UR 5256N 15823E

NO MISSILES, MISSILE-RELATED EQUIPMENT, NEW CONSTRUCTION, CHANGES IN FACILITIES, OR PREVIOUSLY UNREPORTED FEATURES OBSERVED.



25X1

25X1

PETROPAVLOVSK NVL MSL SUPPORT FACILITY UR 5257N 15825E

NO CRANES OBSERVED.


OB -- 1 G-CLASS SSB, 3 SIBIR-CLASS AGM, AND 1 PROBABLE LAMA-CLASS ACM. POOR VESSEL/WATER CONTRAST PRECLUDES MORE DETAILED INTERPRETATION.



25X1

PETROPAVLOVSK NVL B SELDEVAYA BAY UR 5253N 15825E

NO APPARENT CHANGE IN FACILITIES.

OB --  -- 1 POSSIBLE G-CLASS SSB IN FLOATING DOCK, 2 MEDIUM SS, 2 UNIDENTIFIED DD, 3 OSA-CLASS PTFG, 1 DON-CLASS AS, 1 PRUT-CLASS ASR, 1 UNIDENTIFIED SURFACE VESSEL, 9 UNIDENTIFIED SMALL VESSELS, AND 1 UNOCCUPIED FLOATING DOCK. POOR VESSEL/WATER CONTRAST PRECLUDES MORE DETAILED INTERPRETATION OF VESSELS.



25X1

25X1

SEVASTOPOL NAVAL MISSILE STORAGE FACILITY UR 4436N 03340E

ONLY THE EXTREME NORTHERN PORTION OF STORAGE AND CHECKOUT AREA OBSERVED. NO APPARENT CHANGE SINCE



25X1



25X1

**TOP SECRET CHESS RUFF**

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25X1

25X1

SEVASTOPOL NVL B & SHPYD SEVMORZAVOD 497 UR 4436N 03332E

25X1

AN ANTI-SUBMARINE NET IS STRETCHED ACROSS THE ENTRANCE TO SEVERNAYA BAY. NO APPARENT CHANGE IN FACILITIES AT SHIPYARD.

OB -- AT THE SHIPYARD -- 1 PROBABLE W-CONVERSION-CLASS LONG BIN SSG IN DRYDOCK, 1 W-CONVERSION-CLASS TWIN CYLINDER SSG, 3 R/W-CLASS SS (INCLUDING 1 IN DRYDOCK), 1 SVERDLOV-CLASS CL, 1 KOTLIN-CLASS DD IN DRYDOCK, 2 SKORYY-CLASS DD, AND 1 T-43-CLASS MSF ON REPAIR WAY.

AT THE NAVAL BASE -- 4 R/W-CLASS SS, 1 KRUPNYY DDGS, 4 KOTLIN-CLASS DD (1 IN FLOATING DRYDOCK), 1 SKORYY-CLASS DD, 1 PROBABLE SKORYY-CLASS DD, 2 PROBABLE RIGA-CLASS DE, 3 PETYA-CLASS PCE, 1 PROBABLE F-43 MSF, 2 UNIDENTIFIED SMALL COMBATANTS, 1 UNIDENTIFIED AUXILIARY, 2 EMPTY TRANSPORTER DOCKS, NUMEROUS YARD CRAFT, AND MERCHANT VESSELS.

IN KILENBALOCHNAYA BAY -- 3 R/W-CLASS SS, 1 KILDIN-CLASS DDGS, 3 POTI-CLASS PC, 2 PROBABLE KRONSHADT-CLASS PC, 1 PROBABLE SC, 1 OSA-CLASS PTFG, 1 P-6-CLASS PT, 2 PROBABLE T-43-CLASS MSF, 1 PROBABLE VANYA-CLASS MSI, AND 1 NEPTUN-CLASS ARSD.

IN SEVERNAYA BAY -- 1 SVERDLOV-CLASS CLG, 2 SVERDLOV-CLASS CL, 1 CHAPEYEV-CLASS CL (WITH GUN TURRETS REMOVED), 1 KIROV-CLASS OCA, 1 KASHIN-CLASS DLG, 1 KOTLIN-CLASS DD IN DRYDOCK, 4 SKORYY-CLASS DD (2 PROBABLY STRIPPED), 1 PROBABLE SILNYY-CLASS ODD, 4 RIGA-CLASS DE, 1 PROBABLE KRONSHADT-CLASS PC, 1 UNIDENTIFIED AUXILIARY, AND 1 TRANSPORTER DOCK.

IN KARANTINNAYA BAY -- 7 OSA-CLASS PTFG, 3 SHERSHEN-CLASS PTF, 12 P-6-CLASS PT (6 WITHOUT TUBES), AND 8 POSSIBLE YP.

IN KAZACHYA BAY -- 1 OSA-CLASS PTFG AND 1 POSSIBLE MSF.

IN STRELETSKAYA BAY -- 1 POTI-CLASS PC, 1 S.O.1-CLASS SC, 1 PROBABLE S.O.1-CLASS SC, 1 PROBABLE T-58-CLASS MSF, 1 POSSIBLE T-43-CLASS MSF, 1 POSSIBLE MSF, 2 VANYA-CLASS MSI, AND 2 TARGET BARGES.

NUMEROUS SMALL CRAFT AND MERCHANT VESSELS ARE SCATTERED THROUGHOUT THE AREA.

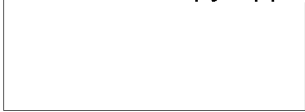
25X1

25X1

**TOP SECRET CHESS RUFF**

**TOP SECRET CHESS RUFF**

25X1



25X1

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SEVASTOPOL NAVAL AMMUNITION STORAGE NORTH UR 4440N 03336E

25X1

NO NEW CONSTRUCTION NOTED. SIX BUILDINGS ARE CAMOUFLAGED USING AT LEAST 2 DIFFERENT TECHNIQUES --ONE MOTTLED PAINTING AND THE OTHER ZIGZAG PAINTING.



25X1

MOSCOW SUSPECT ABM AREA

UR 5545N 03737E

AN APPROXIMATELY 15 X 30 NM PORTION OF SEARCH AREA IN THE NORTHWEST QUADRANT IS COVERED. SEE MISSILE BONUS 4, THIS OAK AND MISSILE BONUS 1, OAK PART 11 FOR DETAILS REGARDING PROBABLE ABM LAUNCH COMPLEXES UNDER CONSTRUCTION AT MOSCOW SAM SITES E31-1 AND E33-1. NO ADDITIONAL SARY-SHAGAN OR LENNINGRAD-TYPE INSTALLATIONS, ELECTRONIC FACILITIES, OR NUCLEAR WEAPONS STORAGE WHICH MIGHT BE RELATED TO ABM DEPLOYMENT OBSERVED. REMAINDER OF SEARCH AREA NOT COVERED.

NO APPARENT CHANGE SINCE [REDACTED] AT SA-1 SAM SITES E32-1 AND E34-1.

25X1



25X1

MOSCOW SAM SITE E31-1

UR 5607N 03629E

A NEW BUILDING IS OBSERVED UNDER CONSTRUCTION BETWEEN RIB ROADS 3A AND 4A IN THE SA-1 LAUNCH AREA. IT ALSO APPEARS THAT ANOTHER MULTISTORY APARTMENT-TYPE BUILDING MAY BE UNDER CONSTRUCTION IN THE SUPPORT AREA. BOTH BUILDINGS ARE NEW SINCE [REDACTED] APPROXIMATELY 13 PROBABLE GUILD MISSILES ARE DISCERNIBLE IN THE LAUNCH AREA. FOR INFORMATION ON PREVIOUSLY REPORTED AMM ASSOCIATED ACTIVITY AT THIS SITE, SEE MOSCOW PROBABLE ABM COMPLEX (MISSILE BONUS 4).

25X1



25X1

LENINGRAD PROB LONG RANGE SAM LCH CPLXS

UR 5955N 03020E

NO NEW OR PREVIOUSLY UNREPORTED AMM-RELATED LAUNCH OR ELECTRONIC FACILITIES IDENTIFIED IN A SEARCH OF CLEAR PHOTOGRAPHY OF AN AREA NORTH, NW, AND NNE OF LENINGRAD.

25X1



25X1

**TOP SECRET CHESS RUFF**



25X1

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25X1

LENINGRAD NW PROB LONG RANGE SAM LCH CPLX UR 6027N 02944E



25X1

SNOW REMOVAL AND VEHICLE TRACKS IN THE SNOW ARE OBSERVED THROUGHOUT THE COMPLEX.

A LAUNCHER HAS BEEN EMPLACED AT EACH LAUNCH POSITION AT SITES A AND B SINCE [REDACTED] PROBABLE TRACKS, MOST CLEARLY VISIBLE AT LAUNCH POSITION E-6, EXTEND FROM 2 BAYS OF THE MISSILE READY BUILDING TOWARD THE LAUNCH POINT. CONSTRUCTION HAS PROGRESSED ON A BUILDING IN THE SUPPORT AREA AND ON A PROBABLE DRIVE-THROUGH STRUCTURE AND ITS SERVICE ROAD LOCATED ALONG THE LAUNCH AREA MAIN ROAD BETWEEN THE SUPPORT AREA AND LAUNCH SITE A. A PROBABLE CALIBRATION TOWER IS NOW DETECTABLE IN A CLEARING LOCATED SOUTH OF THE ELECTRONIC SITE.

25X1

A LAUNCHER IS NOW IN PLACE AT EACH LAUNCH POSITION OF THE 5 LAUNCH SITES AND RADAR OCCUPIES EACH OF THE 5 POSITIONS OF THE ELECTRONIC SITE.

LIMITED INTERPRETABILITY PRECLUDES A DETAILED DESCRIPTION OF THE LAUNCHERS, RADAR OR VEHICLES/VANS/PIECES OF EQUIPMENT LOCATED IN THE SUPPORT AREA.

NO APPARENT CHANGE IN THE ELEVATED STRUCTURES AT THE OUTRIGGER POSITIONS.

NO MISSILES IDENTIFIED.

THE SA-3 SAM SITE LOCATED WITHIN THE COMPLEX IS OCCUPIED.

(SEE ATTACHMENT)



25X1

TALLINN PROB LONG RANGE SAM LCH CPLX UR 5924N 02419E



25X1

THE TALLINN PROBABLE LONG RANGE SAM LAUNCH COMPLEX IS OBSERVED ON [REDACTED] ANALYSIS OF [REDACTED] IS

25X1

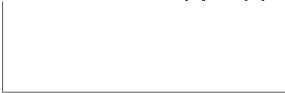


25X1

**TOP SECRET CHESS RUFF**

**TOP SECRET CHESS RUFF**

25X1



25X1

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LIMITED BY SEMIDARKNESS. THEREFORE, ALL DETAILED INFORMATION IS FROM

25X1

RAILS CAN NOW BE IDENTIFIED IN THE VEE PATTERNS AT LAUNCH SITES D AND E. THESE WERE NOT OBSERVED ON PREVIOUS PHOTOGRAPHY. NO PROGRESS HAS BEEN MADE IN THE SITE CONTROL POSITION, LAUNCH SITE E, SINCE MISSION



25X1

TWO DRIVE-THROUGH BUILDINGS, HAVE BEEN ERECTED ON THE CENTER ROAD OF THE MISSILE ASSEMBLY AND CHECKOUT AREA (FORMERLY PROBABLE MISSILE HANDLING AREA) THE BUILDING NEARER TO THE LAUNCH AREA HAS A CLERESTORY ROOF INDICATIVE OF AN OVERHEAD CRANE. THE 2 PREVIOUSLY REPORTED LARGE BUILDINGS ARE PROBABLY FOR RECEIVING AND STORAGE. APPROXIMATELY 500-600 FT SSE OF THESE BUILDINGS, SOME NEW UNIDENTIFIED CONSTRUCTION IS UNDERWAY.

25X1

25X1

A CAMOUFLAGE NETTING HAS BEEN STRETCHED OVER THE CENTER OF THE SITE CONTROL POSITION, LAUNCH SITE A. A PAIR OF RAIL-MOUNTED DOLLIES, ARE IN EACH LAUNCH POSITION AT LAUNCH SITES A, B, AND C. LAUNCHERS ARE AT EACH POSITION AT LAUNCH SITES A AND B, ALTHOUGH ONLY 4 ARE ON THE PREPARED LAUNCHER MOUNT. THESE ARE AT POSITIONS 2, 3, 4, AND 6, LAUNCH SITE A. THERE ARE 3 PROBABLE VANS IN EACH OF THE SITE CONTROL POSITIONS OF SITES A, B, AND C. A VEHICLE IS PARKED ON THE MAIN ROADWAY AT SITE A AND A TRUCK VAN IS PARKED ON THE MAIN LOOP ROADWAY IN SITE B NEAR POSITION 1.

25X1

AT THE ELECTRONIC SITE, RADARS ARE OBSERVED AT POSITIONS 1, 2, AND 3 (ONLY ONE RADAR WAS OBSERVED ON) VANS ARE ALSO OBSERVED AS FOLLOWS -- 4 AT POSITION 1, 6 AT POSITION 2, 4 AT POSITION 3, 2 AT POSITION 4, 5 AT POSITION 5, AND 4 IN THE CONTROL CENTER.

25X1

APPROXIMATELY 107 PIECES OF EQUIPMENT ARE IN OPEN STORAGE ON THE OLD AIRFIELD TAXIWAY BETWEEN THE LAUNCH AREA AND THE ELECTRONIC SITE. THEY ARE IDENTIFIED AS FOLLOWS -- 18 LAUNCHERS, 27 POSSIBLE DOLLIES, 19 VANS OF VARIOUS SIZES, 9 POSSIBLE VANS, 5 POSSIBLE TRANSPORTERS, 7 POSSIBLE BOGIES AND 21 UNIDENTIFIED PIECES OF EQUIPMENT OF VARIOUS SIZES.

25X1

25X1

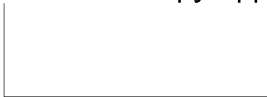
A SEARCH OF THE SURROUNDING AREA REVEALS A NEWLY IDENTIFIED AIR WARNING FACILITY UNDER CONSTRUCTION 3.5

25X1



**TOP SECRET CHESS RUFF**

25X1



25X1

MISSION 4027 20-25 APR 66

NM SE OF THE LAUNCH COMPLEX (SEE ELECTRONIC BONUS 2).

(SEE ATTACHMENT)



25X1

NIZHNYAYA TURA PROB LONG RANGE SAM LCH CPL UR 5846N 05954E



25X1

NO SIGNIFICANT CHANGE OBSERVED AT EITHER THE LAUNCH SITES OR THE ELECTRONIC SITE. TWO TO FOUR BUILDINGS CAN BE OBSERVED UNDER CONSTRUCTION ALONG THE ROAD EXTENDING IN THE OPPOSITE DIRECTION FROM THE LAUNCH SITES BETWEEN LAUNCH SITES B AND C. NO MISSILES OR MISSILE-RELATED EQUIPMENT CAN BE IDENTIFIED.



25X1

STRYY SAM SUPPORT FACILITY

UR 4913N 02354E

BONUS 1

UNIDENTIFIED ACTIVITY ADJACENT TO THE SSW EDGE OF SAM SUPPORT FACILITY CONSISTS OF A LARGE GORKIY-TYPE REVETMENT, A PROBABLE SECURITY BUILDING, A T-SHAPED ROAD, AND A SEPARATE SECURITY FENCE.



25X1

NAM PD SAM SITE C24-2

KN 3827N 12459E

BONUS 2

25.6 NM SW OF NAM PD AT 38-27-40N 124-59-30E. SITE UNDER CONSTRUCTION CONTAINS 6 MISSILE LAUNCH POSITIONS (5 REVETTED AND 1 UNRETTED), A REVETTED CENTRAL GUIDANCE AREA, AND 2 POSSIBLE MISSILE HOLD POSITIONS (UNRETTED).



25X1

EMBA MTC OPERATIONAL SUPPORT AREA

UR 4842N 05805E

BONUS 3

NINE POSSIBLE GANEF MISSILES ARE OBSERVED IN THE OPERATIONAL SUPPORT AREA 12 NM NNE OF THE LAUNCH AREA. TWO ARE WITHIN THE 160-FT SQUARE REVETMENT WHERE THEY WERE PREVIOUSLY SEEN ON [REDACTED] THE REMAINING 7 ARE OBSERVED IN THE VICINITY OF THE 2 LARGE BUILDINGS WITHIN THE SOLID FENCED AREA.

25X1



25X1

**TOP SECRET CHESS RUFF**



**TOP SECRET CHESS RUFF**

25X1



25X1

**MISSION 4027 20-25 APR 66**

MISCELLANEOUS VEHICLES AND EQUIPMENT ARE NOTED NEAR THE RAIL LINE JUST EAST OF AND OUTSIDE THE FENCED AREA.

CONSTRUCTION ACTIVITY CONTINUES IN THE UNIDENTIFIED AREA JUST WEST OF THE ORIGINAL OPERATIONAL SUPPORT AREA.

(SEE ATTACHMENT)



25X1

**MOSCOW PROBABLE ABM LAUNCH COMPLEX**

**UR 5607N 03629E**

**BONUS 4**

BASED ON CONSTRUCTION PATTERNS OBSERVED AT THE PROBABLE ABM LAUNCH COMPLEX AT MOSCOW SAM SITE E33-1 (SEE MISSILE BONUS 1, OAK PART II), IT IS EXPECTED THAT A SIMILAR PROBABLE ABM LAUNCH COMPLEX IS UNDER CONSTRUCTION AT MOSCOW SAM SITE E31-1.

IN THE TRIAD AREA, LOCATED APPROXIMATELY 6,000 FT NORTH OF THE SA-1 LAUNCH AREA, TRIAD 1 APPEARS TO BE IN A MID-STAGE OF CONSTRUCTION. ALL OF THE BUILDINGS ARE INCOMPLETE. AT TRIAD BUILDING A, A RAIL-MOUNTED GANTRY CRANE IS LOCATED ON THE WEST SIDE OF THE BUILDING. WING STRUCTURES EXTENDING FROM THE REAR OF THE BUILDING, SIMILAR TO THOSE SEEN ON BUILDING A, TRIAD 2 AT SAM SITE E33-1, ARE ALSO PRESENT HERE. A PROBABLE BURIED TANK UNDER CONSTRUCTION, APPROXIMATELY 40 FT IN DIAMETER, IS NE OF THE BUILDING.

AT TRIAD 2, ONLY FOOTINGS FOR THE FUTURE BUILDINGS ARE PRESENT. A RAIL-MOUNTED GANTRY CRANE IS LOCATED ON THE WEST SIDE OF THE A BUILDING FOUNDATION.

IT DOES NOT APPEAR THAT CONSTRUCTION HAS BEEN INITIATED ON THE PROBABLE ABM LAUNCH POSITIONS AROUND TRIAD BUILDINGS B AND C AT EITHER TRIAD.

(SEE ATTACHMENT)



25X1



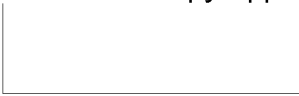
25X1



**Air  
Facilities**

25X1

**TOP SECRET CHESS RUFF**



25X1

MISSION 4027 20-25 APR 66

AIR FACILITIES

SARY-SHAGAN AIRFIELD

UR 4601N 07330E

25X1

CORRECTED OB READOUT FOR SARY-SHAGAN AIRFIELD REPORTED IN THE OAK, PART II -- 16 BADGER, 9 FISHBED, 7 FAGOT/FRESCO, 2 CRATE, 5 CAB, 9 COLT, AND 2 HOUND ON MAIN PARKING APRON. FIVE BEAGLE, 16 FISHPOT, 34 FAGOT/FRESCO, AND 8 PROBABLE FARMER ON SW PARKING APRON. ONE PROBABLE FISHBED ON EAST ALERT APRON. ONE COOT ON APRON ADJACENT TO MAIN PARKING APRON. TWO BADGER, 3 FISHPOT, AND 2 PROBABLE FAGOT/FRESCO IN HANGAR AREA. ONE CAMP, 2 CAB, 2 COLT, AND 1 HOUND ON APRON ADJACENT TO MAIN PARKING APRON.



25X1

NOVOSIBIRSK AIRFIELD WEST

UR 5500N 08240E

NO NEW CONSTRUCTION OR CHANGES IN FACILITIES OBSERVED.

OB -- 1 NEW GENERATION FIGHTER AIRCRAFT (THIS DELTA-WING VEHICLE HAS A FUSELAGE



25X1  
25X1

IT HAS FUEL TANKS ON THE WING TIPS AND PROBABLY 2 ENGINES IN THE REAR OF THE AIRCRAFT, PROBABLY INTERNALLY MOUNTED. SCAFFOLDING IS PRESENT AROUND THE TAIL ASSEMBLY, BUT THE SHADOW OF THE HORIZONTAL STABILIZER SHOWS IT TO BE TAPERED ON BOTH THE LEADING AND TRAILING EDGES), 4 BEAGLE, 10 FISHBED, 7 FAGOT/FRESCO, 7 CAMEL, 1 COOT, 4 CAMP, 1 COKE, 2 CRATE, 5 CAB, 9 COLT, 7 HOUND, AND 2 POSSIBLE HARE.

(SEE ATTACHMENT)



25X1



25X1

**Nuclear  
Energy**

**Page Denied**

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**Electronics/  
Communications**

**TOP SECRET CHESS RUFF**

25X1

MISSION 4027 20-25 APR 66

25X1

ELECTRONICS/COMMUNICATIONS

TALSI SUSPECT SATELLITE TRACKING STATION UR 5717N 02235E

25X1

SITE CONTAINS 2 INTERFEROMETERS WHICH APPEAR COMPLETE BUT MAY BE IN THE LATE STAGES OF CONSTRUCTION. THE CHARACTERISTIC RING ROADS (APPROXIMATELY 1,000 FT IN DIAMETER) ENCIRCLE BOTH INTERFEROMETERS. OBJECTS ARE VISIBLE ON THE ENDS OF ALL 4 LEGS AT THE NORTHERN INTERFEROMETER. OBJECTS ARE VISIBLE AT THE ENDS OF THE NORTHERN, SOUTHERN AND WESTERN LEGS OF THE SOUTHERN INTERFEROMETER. THE EASTERN LEG IS OBSCURED BY CLOUDS. THE E/W AND N/S LEGS OF THE NORTHERN INTERFEROMETER HAVE 9,860-FT EXTENSIONS WITH OBJECTS VISIBLE AT THE ENDS OF THE NORTHERN AND WESTERN EXTENSIONS. CLOUDS OBSCURE THE ENDS OF THE EASTERN AND SOUTHERN EXTENSIONS.

THE SITE SUPPORT AREA IS LOCATED 1 NM NORTH OF THE INTERFEROMETERS. IT CONTAINS 1 LARGE U-SHAPED BUILDING AND 5 OTHER SMALLER BUILDINGS.

25X1

SARY-SHAGAN SITE 13

UR 4635N 07432E

25X1

SITE 13 IS COVERED BY PHOTOGRAPHY OF GOOD INTERPRETABILITY AND REVEALS CONTINUING EXTERNAL CONSTRUCTION ON DUAL HEN HOUSES B AND D BUT NO APPARENT PROGRESS ON THE TRIAD BUILDINGS. DUAL HEN HOUSES A AND C SHOW NO SIGNIFICANT CHANGE SINCE

25X1

25X1

RESPECTIVELY. CONSTRUCTION ACTIVITY AT EACH OF THE 2 HEN HOUSES AT AREA B CONSISTS OF A LONG NARROW RAISED PLATFORM COVERING THE DISTANCE BETWEEN THE TERMINAL BUILDING AND THE CONNECTING STRUCTURE OF THE CONTROL BUILDING, AND PROBABLE STEEL SUPERSTRUCTURE OF A LOW OR SHALLOW NATURE COVERING THE AREA OF PREVIOUSLY REPORTED FOUNDATION FOOTINGS. IN ADDITION, THERE ARE NUMEROUS CRATES AND CONSTRUCTION MATERIALS SCATTERED THROUGHOUT THE AREA.

CONSTRUCTION CONTINUES ON THE HEN HOUSES AT AREA D. THE NORTH LINEAR STRUCTURE CONSISTS OF STEEL SUPERSTRUCTURAL BACK WALL AND ROOF, BUT THE ANTENNA FACE DOES NOT APPEAR TO BE PRESENT. THE SOUTH ANTENNA BUILDING IS COMPOSED OF STEEL SUPERSTRUCTURE WITH ROOF COVERING 60 PERCENT OF THE AREA TO BE ENCLOSED. THE ANTENNA FACING MATERIALS ARE NOT APPARENT. THERE IS NO

25X1

**TOP SECRET CHESS RUFF**

25X1



25X1

MISSION 4027 20-25 APR 66

APPARENT CHANGE IN THE BUILDINGS OF THE TRIAD FACILITY. THERE IS, HOWEVER, TO THE NE OF THE LARGE TRIAD BUILDING A TANK APPROXIMATELY 65 FT IN DIAMETER IN THE PROCESS OF BEING BURIED. THERE IS NO SIGNIFICANT CHANGE IN THE FACILITIES.



25X1

SINGYE SUSPECT RADAR SITE KN 3830N 12632E

HAZE OVER SEARCH AREA PRECLUDES INTERPRETATION.



25X1

25X1

OKHOTSK PROBABLE TROPOSCATTER FACILITY UR 5925N 14324E

TWO OF THE PROBABLE 4 ANTENNA REFLECTORS APPEAR TO BE UNDER CONSTRUCTION.



25X1

SANGAR PROB TROPOSCATTER FACILITY UR 6354N 12732E

THE PREVIOUSLY REPORTED CONSTRUCTION ACTIVITY CAN NOW BE IDENTIFIED AS A PROBABLE TROPOSCATTER FACILITY WHICH WILL PROBABLY CONTAIN AT LEAST 2 TROPOSCATTER ANTENNAS WHEN COMPLETED.



25X1

ANADYR SUSPECT TROPOSCATTER SITE UR 6444N 17722E

NO APPARENT CHANGE SINCE



25X1

25X1

NIKOLAYEV HF SPHERICAL/CIRCULAR ARRAY FAC UR 4649N 03212E

THE FOLLOWING CHANGES HAVE TAKEN PLACE SINCE MISSIONS



-- APPROXIMATELY 6

NEW RHOMBIC ANTENNAS HAVE BEEN CONSTRUCTED IN THE EXPANDED HF COMMUNICATIONS AREA WHICH IS NOW FENCED

25X1



25X1

**TOP SECRET CHESS RUFF**

25X1

25X1

MISSION 4027 20-25 APR 66

ALONG WITH THE ORIGINAL FACILITY. TWO NEWLY IDENTIFIED VERTICAL RADIATORS, 400 FT AND 650 FT HIGH, ARE LOCATED IN THE SOUTHERN PORTION OF THE ORIGINAL FACILITY.

APPROXIMATELY 4,000 FT FROM THE SOUTHERN CORNER OF THE ORIGINAL FACILITY, AN UNIDENTIFIED AREA IS OBSERVED CONTAINING 9 SMALL ADJOINING EXCAVATIONS WHICH ARE CONNECTED BY CABLE SCARS TO 1 OF THE TRANSMITTING AREAS.

THE PREVIOUSLY REPORTED 13 AND 9 GUYED TOWER ARRAYS ARE 600 FT AND 330 FT HIGH, RESPECTIVELY. THE 9 TOWER ARRAY HAS 1 MOVEABLE FEED TOWER MOUNTED ON 2 TRACKS. A THIRD TRACK TO THE REAR IS NOW OBSERVED AND APPEARS TO HAVE AN ELECTRONIC COUPLING FUNCTION. THE 9 TOWER ARRAY IS FED BY AT LEAST 2 TRANSMISSION LINES FROM 1 OF THE LARGE TRANSMITTING BUILDINGS TO A PROBABLE TUNING BUILDING AND THEN CONTINUES TO THE FEED TOWER. THE FEED TOWER IS ABOUT 250 FT HIGH WITH A HORIZONTAL BOOM-TYPE FEED APPROXIMATELY 80 FT IN LENGTH.

THE 13 TOWER ARRAY IS FED BY AT LEAST 3 TRANSMISSION LINES FROM ITS TRANSMITTING BUILDING TO A PROBABLE TUNING BUILDING. FROM THE PROBABLE TUNING BUILDING, THE ANTENNA IS FED BY AT LEAST 4 TRANSMISSION LINES TO THE FEED TOWERS (2 FIXED TOWERS EACH 475 FT HIGH). THE FEED TOWERS EACH HAVE A HORIZONTAL BOOM-LIKE FEED APPROXIMATELY 75 FT IN LENGTH.

A NEW CONTROL BUILDING UNDER CONSTRUCTION [REDACTED] FT HIGH IS LOCATED NEAR THE CENTER OF THE ORIGINAL FACILITY.

25X1

[REDACTED]

25X1

YELYUBAYEVKA TALL KING FACILITY SEARCH UR 5106N 07924E [REDACTED]

25X1

APPROXIMATELY 15 PERCENT OF SOUTHERN PORTION OF SEARCH AREA COVERED [REDACTED] NO TALL KING FACILITY OBSERVED.

25X1

TWENTY PERCENT OF CENTER OF SEARCH AREA COVERED ON PASS [REDACTED] NO TALL KING OBSERVED.

25X1

[REDACTED]

25X1

25X1



**TOP SECRET CHESS RUFF**

25X1  
25X1

MISSION 4027 20-25 APR 66

ULU SUSPECT TROPOSCATTER SITE

UR 6022N 12720E

25X1

[REDACTED] APPROXIMATELY 5 PERCENT OF CENTER PORTION OF SEARCH AREA COVERED. NO TROPOSCATTER FACILITY OBSERVED IN CLOUD-FREE PORTIONS OF SEARCH AREA.

25X1

[REDACTED] APPROXIMATELY 10 PERCENT OF CENTRAL PORTION OF SEARCH AREA COVERED. NO TROPOSCATTER FACILITY OBSERVED.

25X1

[REDACTED]

25X1

ALTYNMAZAR SUSPECT TROPOSCATTER SITE

UR 3904N 07227E

NO TROPOSCATTER OBSERVED WITHIN 10 NM OF COORDINATES.

[REDACTED]

25X1

KARA-KUL SUSPECT TROPOSCATTER SITE

UR 4700N 05553E

NO TROPOSCATTER OBSERVED WITHIN LIMITS OF PHOTOGRAPHY WHICH ARE 5 NM E/W OR 10 NM N/S OF REFERENCED COORDINATES.

[REDACTED]

25X1

NIMGERKAN SUSPECT TROPOSCATTER SITE

UR 5823N 12458E

NORTHERN PORTION OF SEARCH AREA COVERED BY CLEAR PHOTOGRAPHY. SOUTHERN PORTION IS CLOUD COVERED. NO TROPOSCATTER FACILITY OBSERVED.

[REDACTED]

25X1

UZHGOROD TALL KING-AW RADAR FAC SEARCH

UR 4841N 02217E

A 20 X 12 NM NE/SW STRIP CENTERED ON 48-22N 022-40E OVER THE MUKACHEVO AREA IS COVERED ON NON-STEREO PHOTOGRAPHY WITH 5 PERCENT CLOUD COVER. NO TALL KING-AW RADAR FACILITY OBSERVED.

[REDACTED]

25X1

25X1

**TOP SECRET CHESS RUFF**

25X1  
25X1

MISSION 4027 20-25 APR 66

NYIRBATOR TALL KING FACILITY SEARCH

HU 4759N 02220E

25X1

[REDACTED] A 10 X 20 NM STRIP IN THE NW QUADRANT OF THE SEARCH AREA IS COVERED ON PHOTOGRAPHY OF POOR INTERPRETABILITY WITH 90 PERCENT CLOUD COVER. NO TALL KING FACILITY OBSERVED IN CLOUD-FREE AREAS.

25X1

[REDACTED] A 10 X 20 NM NE/SW STRIP CENTERED ON 47-31N 021-38E OVER DEBRECEN IS COVERED ON NON-STEREO PHOTOGRAPHY. NO TALL KING FACILITY OBSERVED.

25X1

[REDACTED]

25X1

KUPINO TALL KING AIR DEFENSE HQ FACILITY UR 5422N 07721E BONUS 1

1 NM EAST OF KUPINO. SECURED SITE CONTAINS 1 TALL KING ANTENNA, 1 ANTENNA BUILDING, 1 SUPPORT BUILDING, 1 GENERATOR BUILDING, AND 1 MAINTENANCE BUILDING.

AN AIR WARNING RADAR SITE CONTAINING 2 MOUNDED RADARS, NUMEROUS EQUIPMENT REVETMENTS, AND SEVERAL EQUIPMENT VANS IS LOCATED 0.5 NM WEST OF THE TALL KING.

[REDACTED]

25X1

VAANA AIR WARNING RADAR FACILITY UR 5922N 02425E BONUS 2

1.2 NM SOUTH OF VAANA. A PROBABLE LONG RANGE SAM ASSOCIATED BACK NET/SIDE NET-TYPE INSTALLATION UNDER CONSTRUCTION INCLUDES 4 RADAR MOUNDS AND A CENTRAL REVETTED POSITION. THIS WAS NOT PRESENT ON [REDACTED] THE RELATIVE LOCATION OF THE SITE TO THE TALLINN PROBABLE LONG RANGE SAM LAUNCH COMPLEX, WHICH IS 3.5 NM NNW, EQUATES FAVORABLY TO THE LOCATION OF THOSE OBSERVED NEAR THE PROBABLE LONG RANGE SAM COMPLEX 1 AND 2 AT THE SARY-SHAGAN ANTIMISSILE TEST CENTER. THIS IS THE FIRST SUCH FACILITY IDENTIFIED IN ASSOCIATION WITH A DEPLOYED COMPLEX OTHER THAN COMPLEXES 1 AND 2 AT SARY-SHAGAN.

25X1

(SEE ATTACHMENT)

[REDACTED]

25X1

[REDACTED]

25X1

**TOP SECRET CHESS RUFF**

MISSION 4027 20-25 APR 66

YENISEYSK TALL KING AIR WARNING RADAR FAC UR 5827N 09206E BONUS 3

2 NM NW OF YENISEYSK.  
SITE CONTAINS 1 TALL KING ANTENNA, 1 ANTENNA BUILDING,  
1 SUPPORT BUILDING, 1 GENERATOR BUILDING, AND 2  
MAINTENANCE BUILDINGS. ONE HEIGHT FINDER RADAR IS  
IMMEDIATELY WEST OF THE SUPPORT BUILDING. AN AIR  
WARNING RADAR SITE IS 2,000 FT SW OF THE TALL KING AND  
CONSISTS OF 2 RADAR MOUNDS, ONE OF WHICH IS OCCUPIED.  
A SUPPORT AREA WITH 5 BUILDINGS IS LOCATED 1,500 FT SE  
OF THE AIR WARNING SITE.

**TOP SECRET CHESS RUFF**

**Military  
Activity**

**TOP SECRET CHESS RUFF**

25X1

25X1

MISSION 4027 20-25 APR 66

MILITARY ACTIVITY

AN-SHUN MILITARY AREA

CH 2615N 10556E

25X1

AN AREA OF APPROXIMATELY 5 NM E/W AND 10 NM N/S OF THE TARGET IS COVERED ON PHOTOGRAPHY. THE MILITARY SIGNIFICANCE OF THE AREA CANNOT BE DETERMINED.

MODERATE CONSTRUCTION ACTIVITY AND LARGE AMOUNTS OF CONSTRUCTION MATERIAL OBSERVED THROUGHOUT AREA.

UNIDENTIFIED CONSTRUCTION ACTIVITY IS OBSERVED AT 26-15N 105-52E.

THE AREA REPORTED ON [REDACTED] AS AN-SHUN MILITARY AREA AT 26-15N 105-56E CONSISTS OF SMALL INDUSTRIES, STORAGE AREAS, AND 2 POL STORAGE AREAS (1 UNDER CONSTRUCTION).

25X1

NO TANKS, ARMORED EQUIPMENT, OR WEAPONS OBSERVED. NUMEROUS CARGO TRUCKS AND UNIDENTIFIED VEHICLES OBSERVED IN AND AROUND AN-SHUN.

25X1

HUO-LU MILITARY AREAS

CH 3805N 11425E

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, PREVIOUSLY UNREPORTED FEATURES, OR OB ITEMS DISCERNIBLE THROUGH HEAVY HAZE IN AREAS B, E, AND F. AREAS A, C, D, AND G ARE CLOUD COVERED.

25X1

KUEI-YANG ARMY BARRACKS SOUTH

CH 2633N 10642E

SOUTH EDGE OF KUEI-YANG. SECURED INSTALLATION COMPRISED OF 2 ADMINISTRATION AREAS AND 1 BARRACKS AREA CONTAINS 20 BARRACKS, 5 ADMINISTRATION BUILDINGS, 2 C-SHAPED BARRACKS/ ADMINISTRATION BUILDINGS, 1 HEADQUARTERS BUILDING, 2 LARGE I-SHAPED BARRACKS, 14 OFFICERS/DEPENDENTS QUARTERS (4 C-SHAPED), 12 GENERAL STORAGE BUILDINGS, 2 PROBABLE MESSHALLS, 45 STORAGE/SUPPORT BUILDINGS, AND NUMEROUS SHEDS.

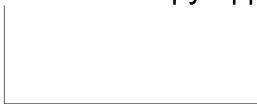
OUTSIDE OF THE SECURED AREA IS A TRAINING AREA

25X1

**TOP SECRET CHESS RUFF**

25X1

**TOP SECRET CHESS RUFF**



25X1

MISSION 4027 20-25 APR 66

CONTAINING 14 STORAGE/SUPPORT BUILDINGS AND 3 SMALL-ARMS FIRING RANGES. A SUB-CALIBER FIRING RANGE IS LOCATED ON WEST EDGE OF INSTALLATION. NO WEAPONS, VEHICLES, OR EQUIPMENT OBSERVED. SOME UNIDENTIFIED SUPPLIES ARE STORED IN A LARGE OPEN AREA. THE AREA APPEARS OCCUPIED WITH A NORMAL LEVEL OF MILITARY ACTIVITY INDICATED.



25X1

MENG-LA MILITARY COMPLEX

CH 2128N 10134E

25X1

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, OR PREVIOUSLY UNREPORTED FEATURES OBSERVED. NO OB, SECURITY, OR INDICATIONS OF TROOP OR SUPPLY BUILDUP OBSERVED.



25X1

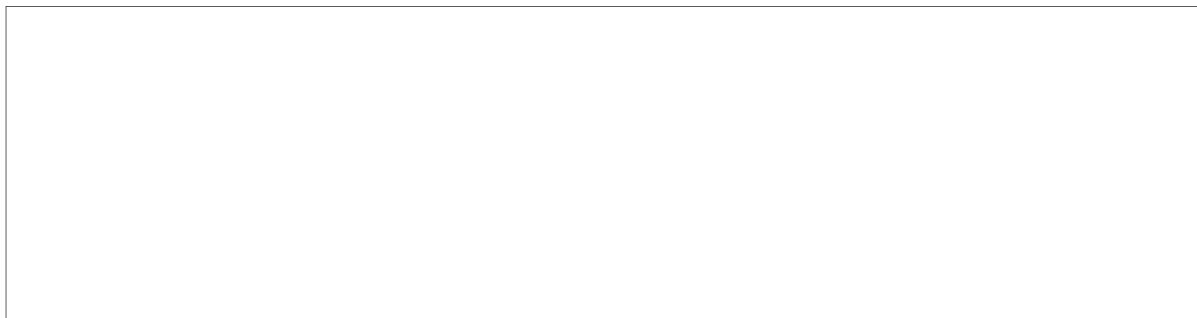
MENG-PAN MILITARY CAMP

CH 2144N 10139E

NO NEW CONSTRUCTION, CHANGES IN FACILITIES, PREVIOUSLY UNREPORTED FEATURES, VEHICLES, WEAPONS, OR EQUIPMENT OBSERVED.




25X1



25X2

HO-KOU ARMY BARRACKS NORTH

CH 2232N 10357E

A PROBABLY ASSOCIATED STORAGE AREA REPORTED IN THE EARLY STAGES OF CONSTRUCTION IN  LOCATED JUST EAST OF THE CAMP, CONTAINS AT LEAST 21 STORAGE-TYPE SHEDS. SCARRING ACTIVITY INDICATES FURTHER POSSIBLE EXPANSION.

25X1

OB -- A TRUCK PARK 1 NM WEST CONTAINS APPROXIMATELY 40



25X1

25X1



**TOP SECRET CHESS RUFF**



25X1

**MISSION 4027 20-25 APR 66**

**CARGO TRUCKS.**



25X1

**YEN-SHAN MILITARY BKS AND STORAGE AREA CH 2336N 10419E**



25X1

**A TOTAL OF 5 NEW STORAGE BUILDINGS HAVE BEEN COMPLETED SINCE [REDACTED] AND THE PROBABLE ADMINISTRATION BUILDING IS IN A LATE STAGE OF CONSTRUCTION.**

25X1

**OB -- 8 CARGO TRUCKS, 1 PROBABLE TRUCK, AND 20 CARGO TRAILERS IN THE MOTOR POOL EAST OF TOWN.**



25X1

**TOP SECRET CHESS RUFF**



25X1

**Other  
Activity**





**TOP SECRET CHESS RUFF**



25X1  
25X1

MISSION 4027 20-25 APR 66

OTHER ACTIVITY

BELEV SENSITIVE OPERATIONS COMPLEX

UR 5332N 03630E



25X1

BUNKERS 1 AND 3 ARE APPARENTLY COMPLETE BUT NOT YET  
EARTH COVERED. BUNKER 2 IS CLOUD COVERED. BUNKERS 4  
AND 5 ARE UNDER CONSTRUCTION IN THE EXCAVATIONS  
REPORTED ON [REDACTED] ONE NEW APARTMENT  
BUILDING HAS BEEN COMPLETED AND 1 APARTMENT BUILDING IS  
NEARING COMPLETION SINCE [REDACTED] MAKING A TOTAL  
OF 10 APARTMENTS. BRIDGE CRANE APPEARS COMPLETE. NO  
VEHICLES OR ROLLING STOCK OBSERVED.

25X1

25X1



25X1

**TOP SECRET CHESS RUFF**



25X1

**Index**

**TOP SECRET CHESS RUFF**

MISSION 4027 20-25 APR 66

25X1

25X1

INDEX OF COMOR TARGETS

COMOR	INSTALLATION NAME	CTY	COORDINATES	OAK
	PLESETSK ICBM COMPLEX	UR	6254N 04038E	3
	PLESETSK ICBM LAUNCH AREA A (SITE 4)	UR	6258N 04046E	3
	PLESETSK ICBM LAUNCH AREA B (SITE 5)	UR	6303N 04057E	3
	PLESETSK ICBM LAUNCH AREA C (SITE 6)	UR	6300N 04052E	3
	PLESETSK ICBM LAUNCH AREA D (SITE 8)	UR	6253N 04047E	3
	PLESETSK ICBM LAUNCH AREA E (SITE 7)	UR	6251N 04034E	3
	PLESETSK SSM LAUNCH AREA F	UR	6252N 04044E	3
	PLESETSK ICBM LCH AREA G (SITE 9)	UR	6253N 04051E	3
	PLESETSK ICBM LCH AREA H (SITE 10)	UR	6252N 04052E	3
	PLESETSK ICBM COMPLEX SUPPORT FACILITY	UR	6254N 04038E	3
	PLESETSK ICBM LCH PTS I & II (SITE 1)	UR	6255N 04027E	3
	PLESETSK ICBM LAUNCH POINT III (SITE 2)	UR	6256N 04031E	3
	PLESETSK ICBM LAUNCH POINT IV (SITE 3)	UR	6257N 04041E	3
	PLESETSK ICBM RAIL-TO-ROAD TRANSFER POINT	UR	6255N 04044E	3
	PLESETSK ICBM UNDERGROUND STORAGE SITE	UR	6257N 04044E	3
	VERKHNYAYA SALDA ICBM LCH AREA E (SITE 5)	UR	5813N 06054E	1
	TYURATAM MISSILE TEST CENTER	UR	4538N 06317E	3
	TYURATAM LAUNCH COMPLEX A (SITES 1,15)	UR	4555N 06320E	3
	TYURATAM LAUNCH COMPLEX E (SITE 6)	UR	4557N 06311E	3
	TYURATAM LAUNCH COMPLEX F (SITE 5)	UR	4601N 06305E	3
	TYURATAM LCH CPLX G (SITES 7,11,12,18,19)	UR	4604N 06255E	3
	TYURATAM LAUNCH COMPLEX J (SITE 31)	UR	4555N 06317E	3
	TYURATAM LAUNCH COMPLEX K (SITES 13,20)	UR	4601N 06303E	3
	TYURATAM LAUNCH GROUP L (SITES 21-30)	UR	4603N 06259E	3
	TYURATAM LCH COMPLEX M (SITES 33,34,37)	UR	4603N 06302E	3
	YOSHKAR-OLA ICBM COMPLEX	UR	5633N 04801E	1
	SVOBODNY ICBM COMPLEX	UR	5146N 12806E	2
	SVOBODNY ICBM LAUNCH AREA A (SITE 3)	UR	5154N 12809E	2
	SVOBODNY ICBM LAUNCH AREA D (SITE 4)	UR	5158N 12806E	2
	SVOBODNY ICBM LAUNCH AREA E (SITE 6)	UR	5143N 12759E	2
	SVOBODNY ICBM LAUNCH AREA F (SITE 5)	UR	5151N 12812E	2
	DROVYANAYA ICBM COMPLEX	UR	5131N 11300E	2
	DROVYANAYA ICBM LAUNCH AREA C (SITE 4)	UR	5127N 11303E	2
	ITATKA ICBM COMPLEX	UR	5650N 08535E	1
	ITATKA ICBM LAUNCH AREA B (SITE 2)	UR	5700N 08539E	1
	ITATKA ICBM LAUNCH AREA C (SITE 3)	UR	5654N 08539E	1
	PERM ICBM COMPLEX	UR	5742N 05619E	2
	PERM ICBM COMPLEX	UR	5742N 05619E	3
	PERM ICBM LAUNCH AREA A (SITE 1)	UR	5741N 05612E	2
	PERM ICBM LAUNCH AREA B (SITE 2)	UR	5743N 05555E	2
	PERM ICBM LAUNCH AREA C (SITE 3)	UR	5737N 05607E	2
	PERM ICBM LAUNCH AREA D (SITE 6)	UR	5744N 05600E	2
	PERM ICBM LAUNCH AREA E (SITE 5)	UR	5741N 05547E	2

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**TOP SECRET CHESS RUFF**

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## TOP SECRET CHESS RUFF

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PERM ICBM LAUNCH AREA F (SITE 4)	UR 5741N 05604E	2
PERM ICBM LAUNCH GROUP G	UR 5742N 05600E	2
PERM ICBM COMPLEX SUPPORT FACILITY	UR 5742N 05619E	2
PERM ICBM RAIL-TO-ROAD TRANSFER POINT	UR 5742N 05617E	2
GLADKAYA ICBM COMPLEX	UR 5606N 09214E	2
GLADKAYA ICBM LAUNCH AREA D (SITE 5)	UR 5621N 09215E	2
GLADKAYA ICBM LAUNCH GROUP F	UR 5614N 09215E	2
GLADKAYA ICBM LAUNCH GROUP G	UR 5614N 09145E	2
GLADKAYA ICBM COMPLEX SUPPORT FACILITY	UR 5606N 09214E	2
GLADKAYA ICBM RAIL-TO-ROAD TRANSFER POINT	UR 5607N 09213E	2
UZHUR ICBM COMPLEX	UR 5517N 08949E	1
UZHUR ICBM LAUNCH AREA F (SITE 6)	UR 5525N 08939E	1
UZHUR ICBM LAUNCH AREA G (SITE 7)	UR 5523N 08927E	1
UZHUR ICBM LAUNCH AREA H (SITE 8)	UR 5519N 08918E	1
UZHUR ICBM LAUNCH AREA J (SITE 10)	UR 5520N 08908E	1
UZHUR ICBM LAUNCH AREA K (SITE 11)	UR 5515N 08910E	1
UZHUR ICBM LAUNCH AREA N (SITE 14)	UR 5524N 08915E	1
NOVOSIBIRSK ICBM COMPLEX	UR 5515N 08259E	2
NOVOSIBIRSK ICBM LAUNCH AREA A (SITE 2)	UR 5519N 08310E	2
NOVOSIBIRSK ICBM LAUNCH AREA B (SITE 1)	UR 5518N 08301E	2
NOVOSIBIRSK ICBM LAUNCH AREA D (SITE 4)	UR 5522N 08313E	2
NOVOSIBIRSK ICBM LAUNCH AREA E (SITE 5)	UR 5519N 08256E	2
KOZELSK ICBM COMPLEX	UR 5356N 03549E	1
OLOVYANNAYA ICBM COMPLEX	UR 5049N 11550E	3
OLOVYANNAYA ICBM LAUNCH AREA A (SITE 1)	UR 5054N 11548E	3
OLOVYANNAYA ICBM LAUNCH AREA B (SITE 2)	UR 5055N 11544E	3
OLOVYANNAYA ICBM LAUNCH AREA C (SITE 3)	UR 5101N 11558E	3
OLOVYANNAYA ICBM LAUNCH GROUP D	UR 5104N 11604E	3
OLOVYANNAYA ICBM LAUNCH GROUP E	UR 5056N 11558E	3
OLOVYANNAYA ICBM LAUNCH GROUP F	UR 5051N 11551E	3
OLOVYANNAYA ICBM LAUNCH GROUP G	UR 5043N 11544E	3
OLOVYANNAYA ICBM LAUNCH GROUP H	UR 5040N 11558E	3
OLOVYANNAYA ICBM COMPLEX SUPPORT FACILITY	UR 5049N 11550E	3
OLOVYANNAYA ICBM RAIL-TO-ROAD TSFR POINT	UR 5050N 11552E	3
DOMBAROVSKIY ICBM COMPLEX	UR 5101N 05950E	3
DOMBAROVSKIY ICBM LAUNCH AREA C (SITE 2)	UR 5101N 05941E	3
DOMBAROVSKIY ICBM LAUNCH AREA D (SITE 1)	UR 5058N 05932E	3
DOMBAROVSKIY ICBM LAUNCH AREA I (SITE 8)	UR 5102N 05957E	3
DOMBAROVSKIY ICBM LAUNCH AREA J (SITE 9)	UR 5105N 05950E	3
DOMBAROVSKIY ICBM LAUNCH AREA K (SITE 12)	UR 5110N 05957E	3
DOMBAROVSKIY ICBM LAUNCH AREA L (SITE 13)	UR 5105N 06004E	3
DOMBAROVSKIY ICBM LAUNCH AREA M (SITE 14)	UR 5050N 05935E	3
DOMBAROVSKIY ICBM COMPLEX SUPPORT FAC	UR 5101N 05950E	3
DOMBAROVSKIY ICBM RAIL-TO-ROAD TSFR POINT	UR 5101N 05947E	3
ALEYSK ICBM COMPLEX	UR 5228N 08242E	2
ALEYSK ICBM LAUNCH AREA A (SITE 1)	UR 5227N 08235E	2
ALEYSK ICBM LAUNCH AREA B (SITE 2)	UR 5229N 08240E	2
ALEYSK ICBM LAUNCH AREA C (SITE 3)	UR 5233N 08242E	2
ALEYSK ICBM LAUNCH AREA D (SITE 4)	UR 5232N 08234E	2

TOP SECRET CHESS RUFF

**TOP SECRET CHESS RUFF**

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25X1

ALEYSK ICBM LAUNCH AREA E (SITE 5)	UR 5235N 08230E	2
ALEYSK ICBM LAUNCH AREA G (SITE 7)	UR 5223N 08246E	2
ALEYSK ICBM LAUNCH AREA H (SITE 8)	UR 5217N 08249E	2
IMENI GASTELLO ICBM COMPLEX	UR 5106N 06618E	2
IMENI GASTELLO ICBM LCH AREA A (SITE 1)	UR 5103N 06605E	2
IMENI GASTELLO ICBM LCH AREA B (SITE 2)	UR 5106N 06601E	2
IMENI GASTELLO ICBM LCH AREA D (SITE 4)	UR 5107N 06612E	2
IMENI GASTELLO ICBM LCH AREA F (SITE 6)	UR 5113N 06605E	2
IMENI GASTELLO ICBM LCH AREA M (SITE 13)	UR 5056N 06550E	2
IMENI GASTELLO ICBM LCH AREA P (SITE 16)	UR 5102N 06550E	2
TATISHCHEVO ICBM COMPLEX	UR 5140N 04534E	1
TATISHCHEVO ICBM LAUNCH GROUP A	UR 5148N 04539E	1
TATISHCHEVO ICBM LAUNCH GROUP B	UR 5136N 04530E	1
TATISHCHEVO ICBM LAUNCH GROUP C	UR 5129N 04515E	1
TATISHCHEVO ICBM COMPLEX SUPPORT FACILITY	UR 5140N 04534E	1
TATISHCHEVO ICBM RAIL-TO-ROAD TRANSFER PT	UR 5141N 04532E	1
DOLINA MRBM LAUNCH SITE 1	UR 4904N 02403E	2
DOLINA MRBM LAUNCH SITE 2	UR 4906N 02408E	2
BOLEKHOV MRBM LAUNCH SITE	UR 4906N 02351	2
BEREZHNI TSA FIXED FIELD MRBM SITE	UR 4912N 02357E	2
RAKUV FIXED FIELD MRBM SITE	UR 4858N 02405E	2
KURDZHIPS KAYA MRBM LAUNCH SITE	UR 4431N 04000E	2
SIMUNA MRBM LAUNCH SITE 1	UR 5908N 02626E	2
VAIKE MAARJA MRBM LAUNCH SITE	UR 5911N 02620E	2
TAMSALU FIXED FIELD MRBM SITE	UR 5909N 02609E	2
BYTEN MRBM LAUNCH SITE 1	UR 5252N 02521E	2
ZNAMENSK MRBM LAUNCH SITE 2	UR 5435N 02108E	1
KAPUSTIN YAR SAM LAUNCH COMPLEX	UR 4848N 04545E	3
SARY-SHAGAN ANTIMISSILE TEST CENTER	UR 4602N 07334E	3
SARY-SHAGAN LAUNCH COMPLEX B (ZONE B)	UR 4559N 07231E	2
SARY-SHAGAN PROB LONG RANGE SAM LCH CPLX	UR 4605N 07327E	3
SHUANG-CHENG-TZU MISSILE TEST CENTER	CH 4107N 10020E	3
SHUANG-CHENG-TZU MTC LCH CPLX A (SITE 1)	CH 4114N 10017E	3
SHUANG-CHENG-TZU MTC LCH CPLX B (SITE 2)	CH 4115N 10018E	3
SHUANG-CHENG-TZU MTC LCH CPLX C (SITE 3)	CH 4118N 10017E	3
SHUANG-CHENG-TZU SSM-SAM ASBLY & CHECK CPX	CH 4106N 10016E	3
KAMCHATKA PENINSULA MISSILE IMPACT AREA	UR 5722N 16143E	3
EMBA MSL TEST CENTER LAUNCH AREA	UR 4831N 05801E	3
SARY-SHAGAN IMPACT AREA	UR 4623N 07324E	2
ORENBURG AIRFRAME PLANT 47	UR 5148N 05507E	1
KAMENSK-SHAKHTINSKIY RKT MOTOR TEST FAC	UR 4819N 04016E	1

25X1

NEMOURS SUSPECT SSM SEARCH	AG 3506N 00151W	1
HANOI SAM SEARCH	VN 2102N 10551E	1
LAO CAI SAM SEARCH	VN 2229N 10359E	1
PETROPAVLOVSK NAVAL BASE TARYA BAY	UR 5255N 15830E	3
PETROPAVLOVSK NAVAL MISSILE STORAGE	UR 5256N 15823E	3
PETROPAVLOVSK NVL MSL SUPPORT FACILITY	UR 5257N 15825E	3
PETROPAVLOVSK NVL B SELDEVAYA BAY	UR 5253N 15825E	3

25X1

## TOP SECRET CHESS RUFF

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SEVASTOPOL NAVAL MISSILE STORAGE FACILITY	UR	4436N	03340E	3	25X1
SEVASTOPOL NVL B & SHPYD SEVMORZAVOD 497	UR	4436N	03332E	3	
SEVASTOPOL NAVAL AMMUNITION STORAGE NORTH	UR	4440N	03336E	3	
TALLINN NAVAL BASE & SHPYD MORSKOY ZAVOD	UR	5927N	02444E	2	
PALDISKI NAVAL BASE	UR	5921N	02404E	2	
MOSCOW SUSPECT ABM AREA	UR	5545N	03737E	3	
MOSCOW SAM SITE E33-1	UR	5620N	03648E	2	
MOSCOW SAM SITE E31-1	UR	5607N	03629E	3	
LENINGRAD PROB LONG RANGE SAM LCH CPLXS	UR	5955N	03020E	3	
LENINGRAD NW PROB LONG RANGE SAM LCH CPLX	UR	6027N	02944E	3	
TALLINN PROB LONG RANGE SAM LCH CPLX	UR	5924N	02419E	3	
NIZHNYAYA TURA PROB LONG RANGE SAM LCH CPLUR	UR	5846N	05954E	3	
ALGIERS SUSPECT SAM DEFENSE AREA	AG	3647N	00303E	1	
CHAN-CHIANG POSSIBLE SAM SITE	CH	2123N	11011E	1	
ASWAN SAM SITE B33-2	EG	2415N	03246E	1	
PAKANBARU SAM SEARCH	ID	0032N	10127E	2	
PARPA SAM SEARCH	ID	0119N	12050E	1	
BATUMI SAM SITE A24-2	UR	4136N	04135E	1	
DALNYAYA SAM SITE A36-2	UR	4555N	14204E	1	
HANOI SAM SITE A10-2	VN	2101N	10558E	1	
HANOI SAM SITE A19-2	VN	2055N	10550E	1	
HANOI SAM SITE B21-2	VN	2051N	10545E	1	
HANOI SAM SITE A11-2	VN	2100N	10555E	1	
HANOI SAM SITE C07-2	VN	2116N	10619E	1	
THANH HOA SAM SITE A04-2	VN	1955N	10551E	1	
THANH HOA SAM SITE A17-2	VN	1945N	10547E	1	
THANH HOA SAM SITE A19-2	VN	1941N	10546E	1	
HANOI SAM SITE A17A-2	VN	2052N	10554E	1	
LIEN-YUN-CHIANG COASTAL DEFENSE POSITION	CH	3445N	11920E	2	
TUNG-FANG SUSPECT COASTAL DEFENSE SITE	CH	1901N	10846E	2	
GLAZOV REGIONAL MILITARY STOR INSTLN	UR	5751N	05317E	2	
NOVAYA MEZINOVKA REGIONAL MIL STOR INSTLN	UR	5331N	02655E	2	

DOLON AIRFIELD	UR	5032N	07912E	1	25X1
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BARANOVICHI AIRFIELD	UR	5306N	02603E	1	25X1
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SPASSK-DALNIY AIRFIELD EAST	UR	4437N	13253E	2	
RYAZAN/DYAGILEVO AIRFIELD	UR	5439N	03935E	2	
ZHITOMIR/SKOMOROKHI AIRFIELD	UR	5010N	02844E	1	

NEZHIN AIRFIELD	UR	5105N	03152E	1	25X1
GOMEL/PRIBYTKI AIRFIELD	UR	5218N	03110E	1	
SARY-SHAGAN AIRFIELD	UR	4601N	07330E	2	
SARY-SHAGAN AIRFIELD	UR	4601N	07330E	3	
GORKIY/SORMOVO AIRFIELD	UR	5619N	04348E	2	
GORKIY AIRFRAME PLANT ORDZHONIKIDZE 21	UR	5620N	04352E	2	
KERCH/BAGEROVO AIRFIELD	UR	4524N	03616E	2	
SHEN-YANG AIRFRAME PLANT 112	CH	4152N	12325E	1	

**TOP SECRET CHESS RUFF**

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HA-ERH-PIN AIRFRAME PLANT PING-FANG-TIEN	CH 4535N 12639E	2	25X1
CHUNG-AN AIRFIELD	CH 2742N 11800E	2	
LEI-YANG AIRFIELD	CH 2635N 11253E	2	
LI-CHIA-TSUN AIRFIELD	CH 2511N 11019E	2	
LIU-CHOU AIRFIELD	CH 2417N 10923E	2	
NAN-NING AIRFIELD	CH 2249N 10820E	2	
PING-FANG-TIEN AIRFIELD	CH 4535N 12639E	1	
SSU-MAO AIRFIELD NORTH	CH 2247N 10058E	2	
LEI-PEI AIRFIELD	CH 2124N 11012E	2	
TENG-AO-PAO AIRFIELD	CH 4106N 12251E	2	
WU-KUNG AIRFIELD	CH 3417N 10815E	1	
HSI-AN AIRCRAFT ENGINE PLANT WU-KUNG	CH 3417N 10815E	1	
HO-TIEN AIRFIELD	CH 3702N 07952E	1	
SAAMCHAM AIRFIELD	KN 3945N 12554E	1	
KUN-MING AIRFIELD	CH 2459N 10244E	2	
SHAN-TOU AIRFIELD NORTHEAST	CH 2325N 11645E	2	
KEP AIRFIELD	VN 2124N 10616E	2	
BUREVESTNIK AIRFIELD	UR 4454N 14738E	1	
GORODOK AIRFIELD	UR 4944N 02340E	2	
LVOV/SKNILOV AIRFIELD	UR 4949N 02356E	1	
NOVOSIBIRSK AIRFIELD WEST	UR 5500N 08240E	3	
CHIU-HO-SHIH AIRFIELD	CH 4210N 08713E	2	
AKTOGAY/ZHUZ-AGACH AIRFIELD	UR 4700N 07939E	2	
HSU-PU AIRFIELD	CH 2756N 11040E	2	
CAPRIVI STRIP AIRFIELD	UA 1738S 02414E	1	
SARGODHA AIRFIELD	PK 3204N 07241E	1	

**TOP SECRET CHESS RUFF**

**TOP SECRET CHESS RUFF**

25X1

25X1

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SHAN-TOU NAVAL BASE	CH	2321N	11640E	1
SHAN-TOU MOTOR TORPEDO BOAT BASE	CH	2312N	11637E	1
NIKOLAYEV SHIPYARD NOSENKO 444	UR	4657N	03159E	1
NIKOLAYEV SHPYD NORTHERN 61 KOMMUNA 445	UR	4659N	03201E	2
GORKIY SHIPYARD & HEAVY EQUIPMENT PLT 112	UR	5622N	04352E	2
DZERZHINSK CHEMICAL PLANT KALININ	UR	5614N	04332E	1
DZERZHINSK CHEMICAL PLANT STROY 96	UR	5615N	04335E	1
KAZAN CHEM PLT POWDER & EXPLOS LENIN 40	UR	5549N	04901E	1
KAZAN AMMUNITION DEPOT NOVOYE ARAKCHINO	UR	5549N	04858E	1
NAN-NING AMMUNITION DEPOT NORTHEAST	CH	2250N	10822E	2

25X1

ARKHANGELSK HF COMMUNICATIONS FACILITY	UR	6415N	04037E	1
AMBOINA IS SUSP SPACE TRACK FAC	ID	0340S	12810E	1
TALSI SUSPECT SATELLITE TRACKING STATION	UR	5717N	02235E	3
GALENKI ESV TRACKING STATIONS	UR	4401N	13145E	2
RUSTAVI HF SPHERICAL CURTAIN ANTENNA	UR	4126N	04509E	1
SARY-SHAGAN SITE 13	UR	4635N	07432E	3
SINGYE SUSPECT RADAR SITE	KN	3830N	12632E	3
OKHOTSK PROBABLE TROPOSCATTER FACILITY	UR	5925N	14324E	3
SANGAR PROB TROPOSCATTER FACILITY	UR	6354N	12732E	3
ANADYR SUSPECT TROPOSCATTER SITE	UR	6444N	17722E	3
NIKOLAYEV HF SPHERICAL/CIRCULAR ARRAY FAC	UR	4649N	03212E	3
CHALOBAY TALL KING FACILITY SEARCH	UR	4920N	08244E	2
YELYUBAYEVKA TALL KING FACILITY SEARCH	UR	5106N	07924E	3
NIKULINO TALL KING FACILITY SEARCH	UR	6022N	08947E	1
ORLOVKA TALL KING FACILITY SEARCH	UR	4300N	06950E	1
OSSORA TALL KING-AW RADAR FACILITY SEARCH	UR	5917N	16305E	2
ULU SUSPECT TROPOSCATTER SITE	UR	6022N	12720E	3
ALTYNMAZAR SUSPECT TROPOSCATTER SITE	UR	3904N	07227E	3
KARA-KUL SUSPECT TROPOSCATTER SITE	UR	4700N	05553E	3
NIMGERKAN SUSPECT TROPOSCATTER SITE	UR	5823N	12458E	3
SARY-SHAGAN HEN HOUSE ANTENNA RDR SITE 1	UR	4559N	07339E	2
SARY-SHAGAN HEN ROOST ANTENNAS RDR SITE 2	UR	4556N	07338E	2
SARY-SHAGAN COMMUNICATION SITE 2	UR	4555N	07338E	2
SORTAVALA DUAL TALL KING-AW RADAR FAC	UR	6153N	03025E	2
UZHGOROD TALL KING-AW RADAR FAC SEARCH	UR	4841N	02217E	3
BUCHAREST TALL KING FACILITY SEARCH	RU	4420N	02619E	2
NYIRBATOR TALL KING FACILITY SEARCH	HU	4759N	02220E	3
BALAKLAVA TALL KING FACILITY SEARCH	UR	4427N	03332E	2
KERCH TALL KING FACILITY SEARCH	UR	4510N	03628E	2
AN-SHUN MILITARY AREA	CH	2615N	10556E	3
CHE-TIEN BARRACKS AND SUPPLY DEPOT SOUTH	CH	2621N	11249E	1
HUO-LU MILITARY AREAS	CH	3805N	11425E	3
LEI-PEI MILITARY AREAS	CH	2122N	11016E	1
KUEI-LIN HQ 141 INFANTRY DIVISION	CH	2511N	11020E	2
KUEI-YANG ARMY BARRACKS SOUTH	CH	2633N	10642E	3
KUEI-YANG STORAGE DEPOT	CH	2628N	10644E	2
KUN-MING GENERAL SUPPLY DEPOT	CH	2501N	10244E	1

25X1

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**TOP SECRET CHESS RUFF**

25X1



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25X1

25X1

KUN-MING STORAGE AREAS SOUTHEAST	CH 2500N 10247E	2	25X1
LEI-YANG ARMY BARRACKS WEST-SOUTHWEST	CH 2624N 11250E	1	
LU-HSI ARMY BARRACKS SOUTH	CH 2424N 09833E	1	
MENG-LA MILITARY COMPLEX	CH 2128N 10134E	3	
MENG-PAN MILITARY CAMP	CH 2144N 10139E	3	
PU-ERH MILITARY BARRACKS	CH 2305N 10103E	1	
SHAN-TOU ARMY BARRACKS LIEN-TANG	CH 2327N 11635E	1	
SSU-MAO MILITARY COMPLEX	CH 2247N 10058E	1	
YUNG-PING MILITARY AREA	CH 2529N 09932E	1	
NING-CHING ARMY BARRACKS	TI 2941N 09833E	1	
PU-LAN ARMY BARRACKS	TI 3015N 08110E	1	
TZU-MU-TSUNG BARRACKS NORTHWEST	TI 2941N 09423E	2	

BIROBIDZHAN ARMY BARRACKS AL 1	UR 4847N 13253E	2	25X1
BIROBIDZHAN ORDNANCE DEPOT	UR 4847N 13258E	2	
GROZNY BARRACKS RIVER SUNZHA	UR 4320N 04542E	1	
STRYY ARMY BARRACKS SOUTHWEST AL 1	UR 4914N 02349E	2	
ULAN-UDE ARMY BARRACKS DIVIZIONNAYA	UR 5154N 10731E	2	
HO-KOU ARMY BARRACKS NORTH	CH 2232N 10357E	3	
LAO-CHANG POSSIBLE MILITARY AREAS	CH 2244N 09945E	1	
YEN-SHAN MILITARY BKS AND STORAGE AREA	CH 2336N 10419E	3	
MALIR CANTONMENT AREA	PK 2456N 06712E	1	
LAO CAI-HANOI RR SEGMENT 1	VN 2225N 10405E	2	
HANOI--PING-HSIANG RR SEGMENT 2	VN 2126N 10620E	2	
HANOI--PING-HSIANG RR SEGMENT 3	VN 2110N 10604E	2	
NAN-NING COMPLEX	CH 2249N 10819E	2	
KUN-MING COMPLEX	CH 2504N 10241E	2	
PING-HSIANG COMPLEX	CH 2207N 10646E	2	
AN-NING COMPLEX	CH 2455N 10229E	2	
LIU-CHOU COMPLEX	CH 2418N 10924E	1	
AYAGUZ COMPLEX	UR 4756N 08023E	1	
NYANDOMA SENSITIVE OPERATIONS COMPLEX	UR 6139N 04015E	2	
ZHUKOVKA SENSITIVE OPS CMLX OPS AREA	UR 5333N 03357E	2	
ZHUKOVKA SENSITIVE OPS CMLX SUPT AREA	UR 5329N 03353E	2	
CHAADAYEVKA SENSITIVE OPERATIONS COMPLEX	UR 5307N 04602E	1	
BORISOGLEBSK SENSITIVE OPERATIONS COMPLEX	UR 5125N 04157E	1	
BELEV SENSITIVE OPERATIONS COMPLEX	UR 5332N 03630E	3	

**TOP SECRET CHESS RUFF**

25X1

## **Attachments**



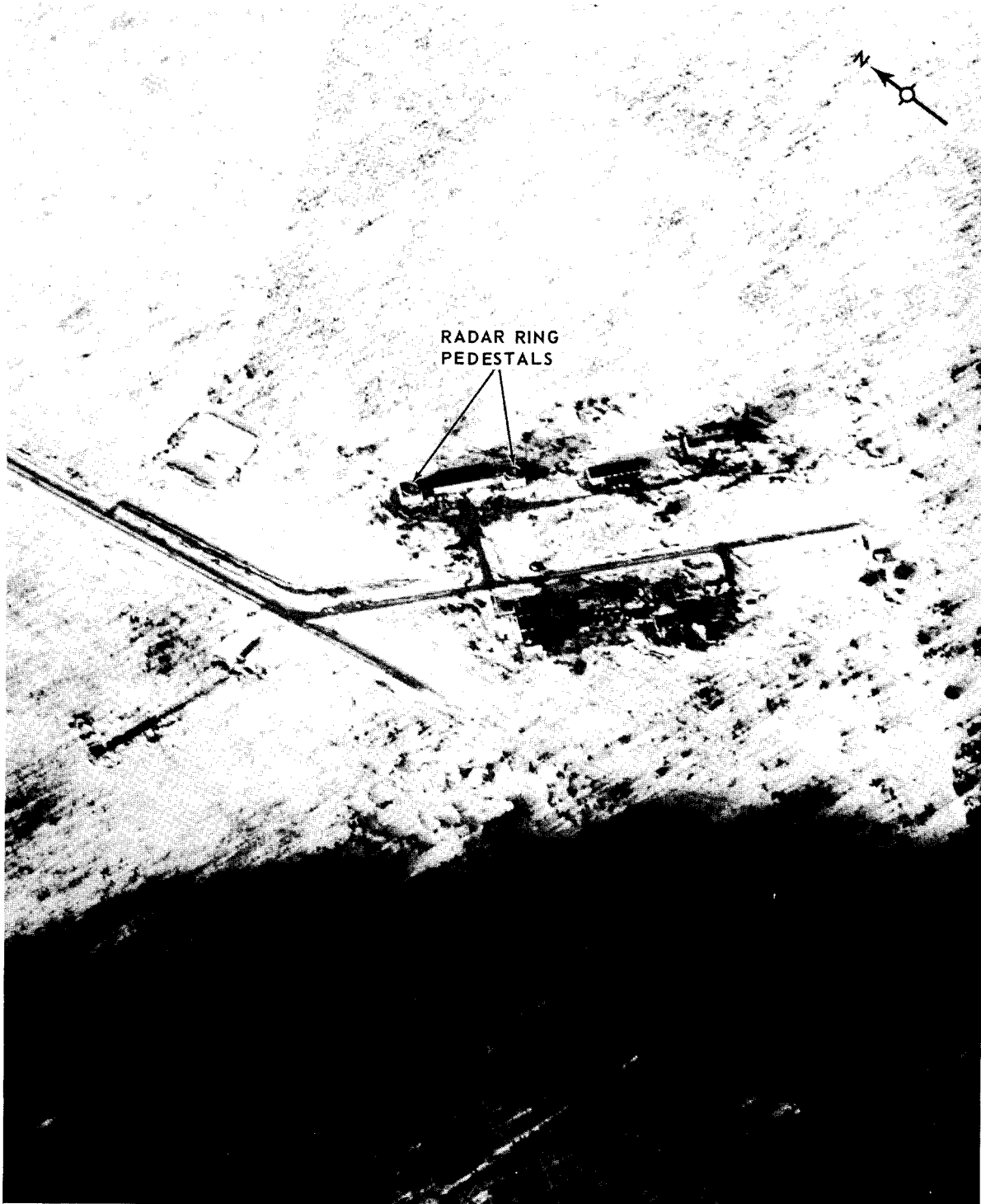
**TOP SECRET CHESS RUFF**

MISSION 4027, 20-25 APRIL 1966



ATTACHMENT 1

25X1



PROBABLE ELECTRONIC FACILITY, PLESETSK ICBM COMPLEX, USSR

NPIC K-8118 (8/66)

**TOP SECRET CHESS RUFF**



25X1

**TOP SECRET CHESS RUFF**

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ATTACHMENT 2

25X1



LAUNCH AREAS G AND H, PLESETSK ICBM COMPLEX, USSR

NPIC K-8119 (6/68)

**TOP SECRET CHESS RUFF**

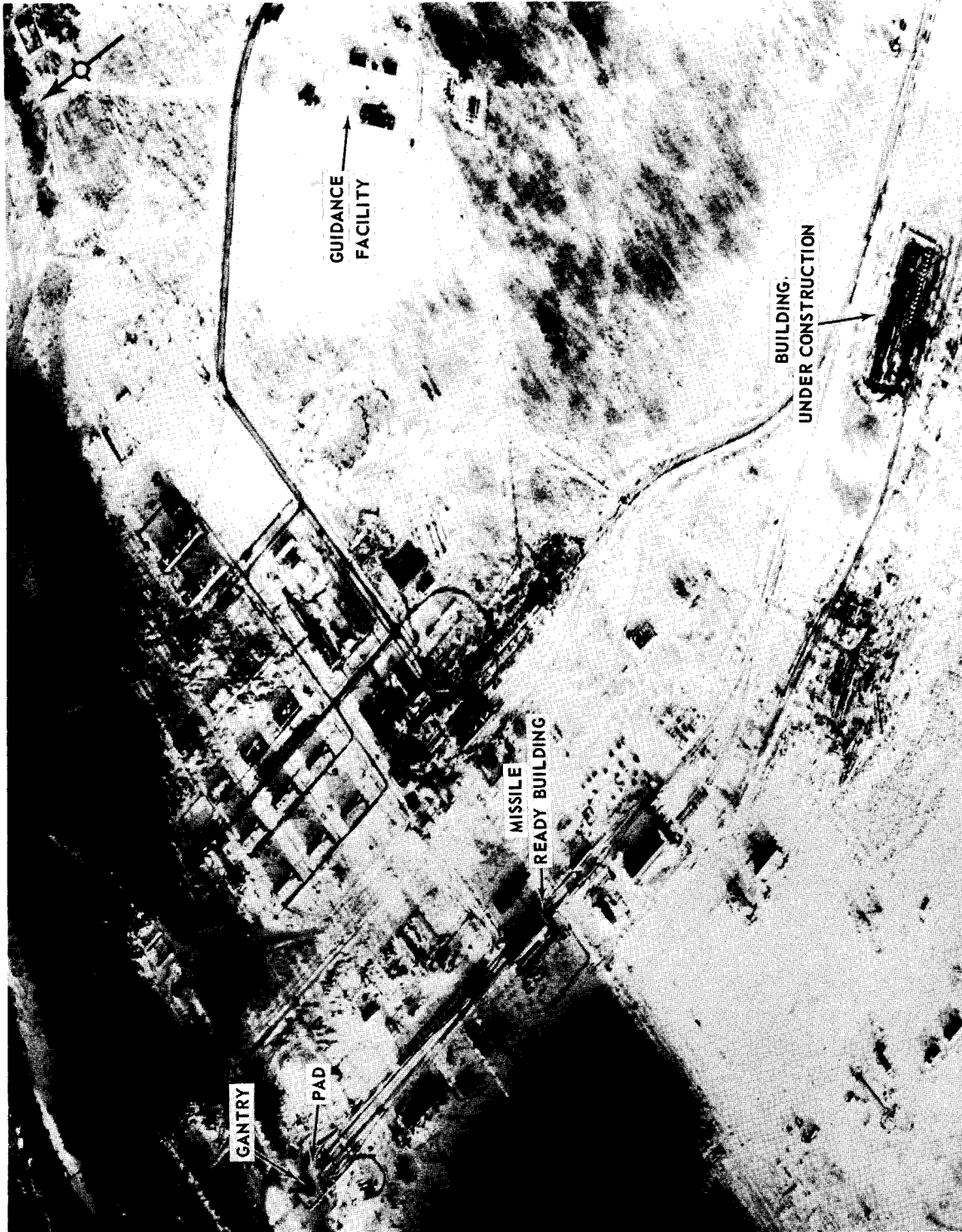
25X1

# TOP SECRET CHESS RUFF

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ATTACHMENT 3

25X1X1



LAUNCH POINT III, PLESETSK ICBM COMPLEX, USSR

NPIC K-8120 (5/86)

# TOP SECRET CHESS RUFF

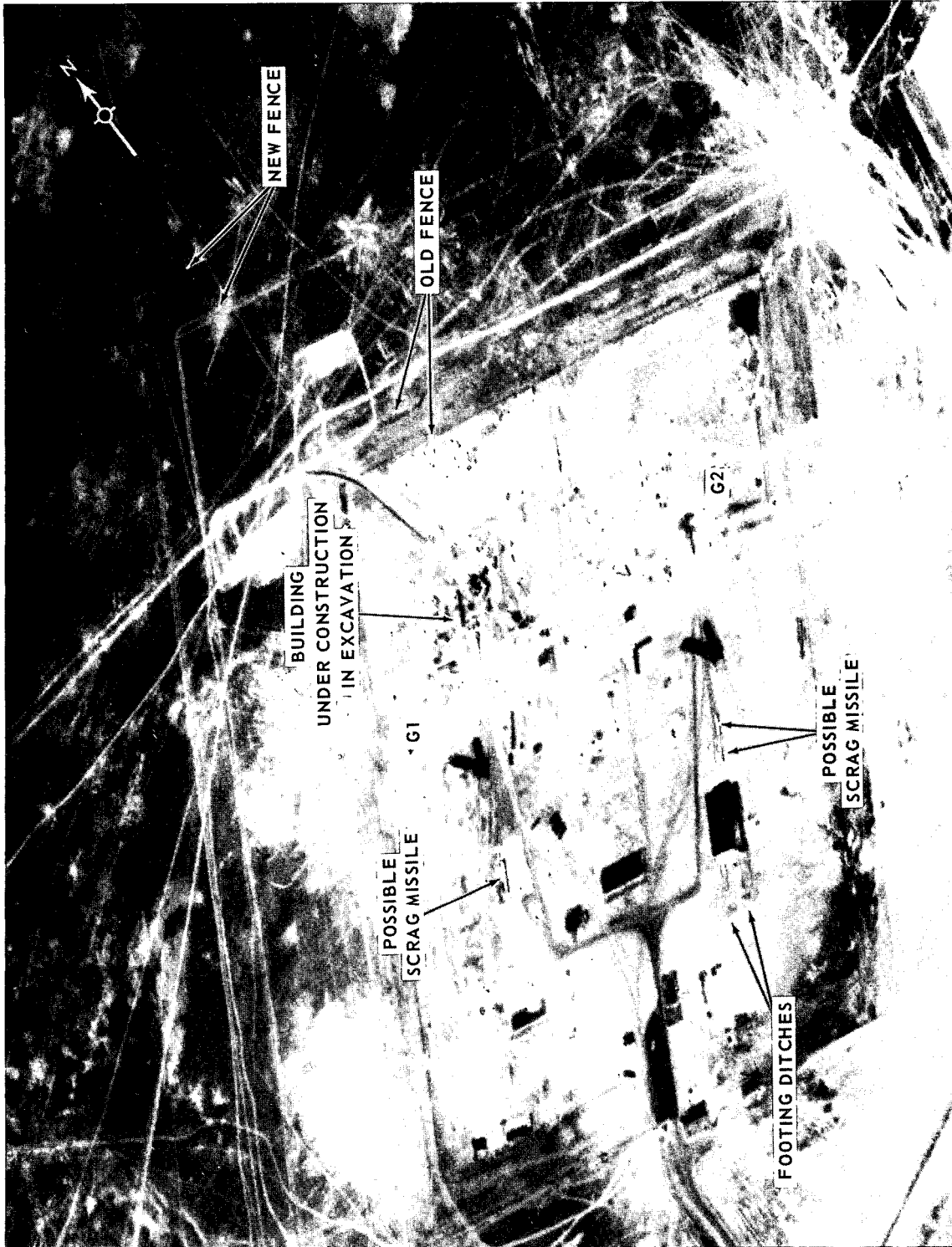
25X1

# TOP SECRET CHESS RUFF

MISSION 4027, 20-25 APRIL 1966

ATTACHMENT 4

25X1



LAUNCH AREA G1-G2, TYURATAM MISSILE TEST CENTER, USSR

NPIC K-8131 (6/66)

# TOP SECRET CHESS RUFF

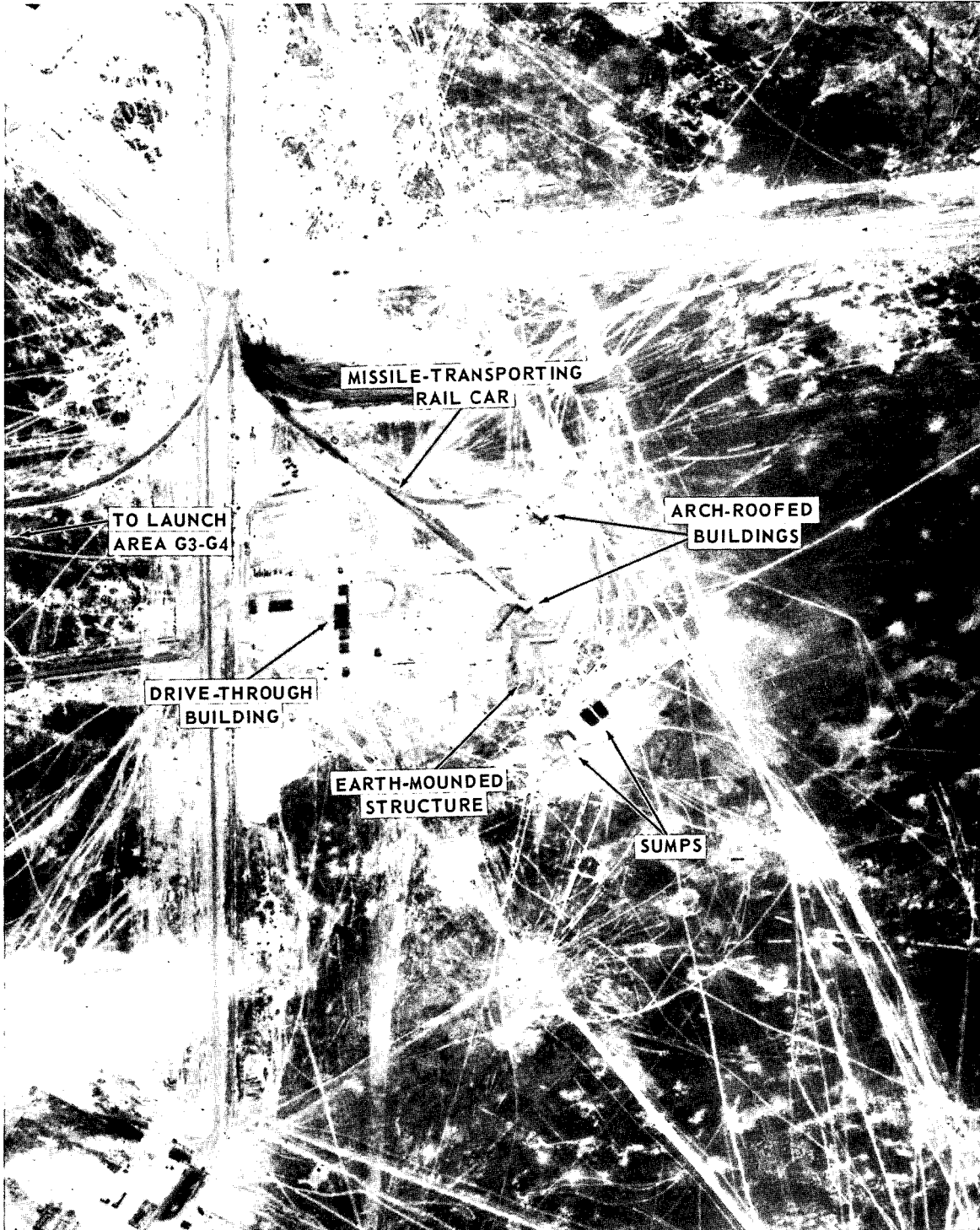
25X1

**TOP SECRET CHESS RUFF**

MISSION 4027, 20-25 APRIL 1966

ATTACHMENT 5

25X1  
ZDAI



NPIC K-8122 (5/66)

POSSIBLE COMPONENT CHECKOUT/HANDLING FACILITY, LAUNCH COMPLEX G, TYURATAM MISSILE TEST CENTER, USSR

**TOP SECRET CHESS RUFF**

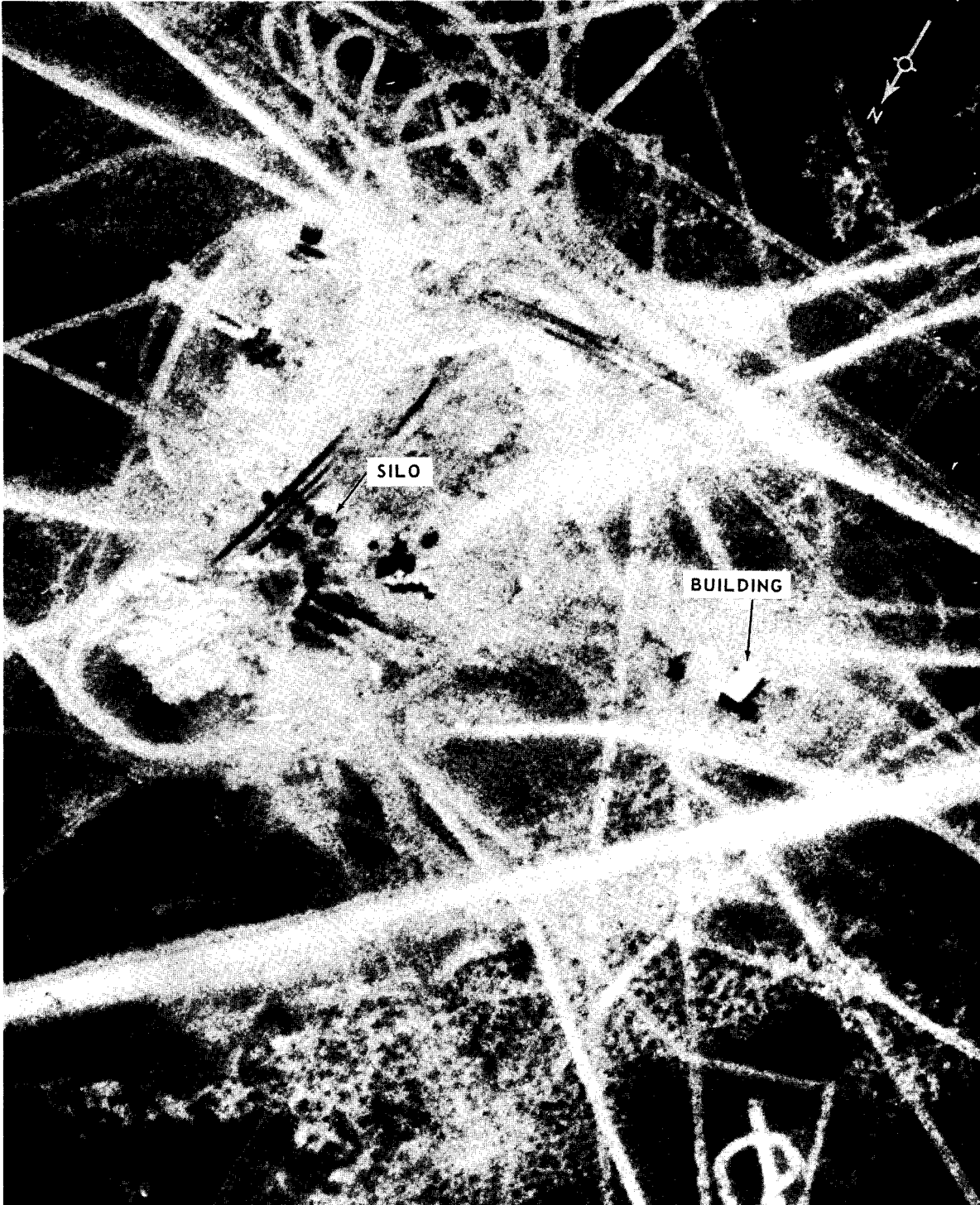
25X1



**TOP SECRET CHESS RUFF**

MISSION 4027, 20-25 APRIL 1966

ATTACHMENT 6



LAUNCH SITE M1, TYURATAM MISSILE TEST CENTER, USSR.

NPIC K-8123 (5/66)

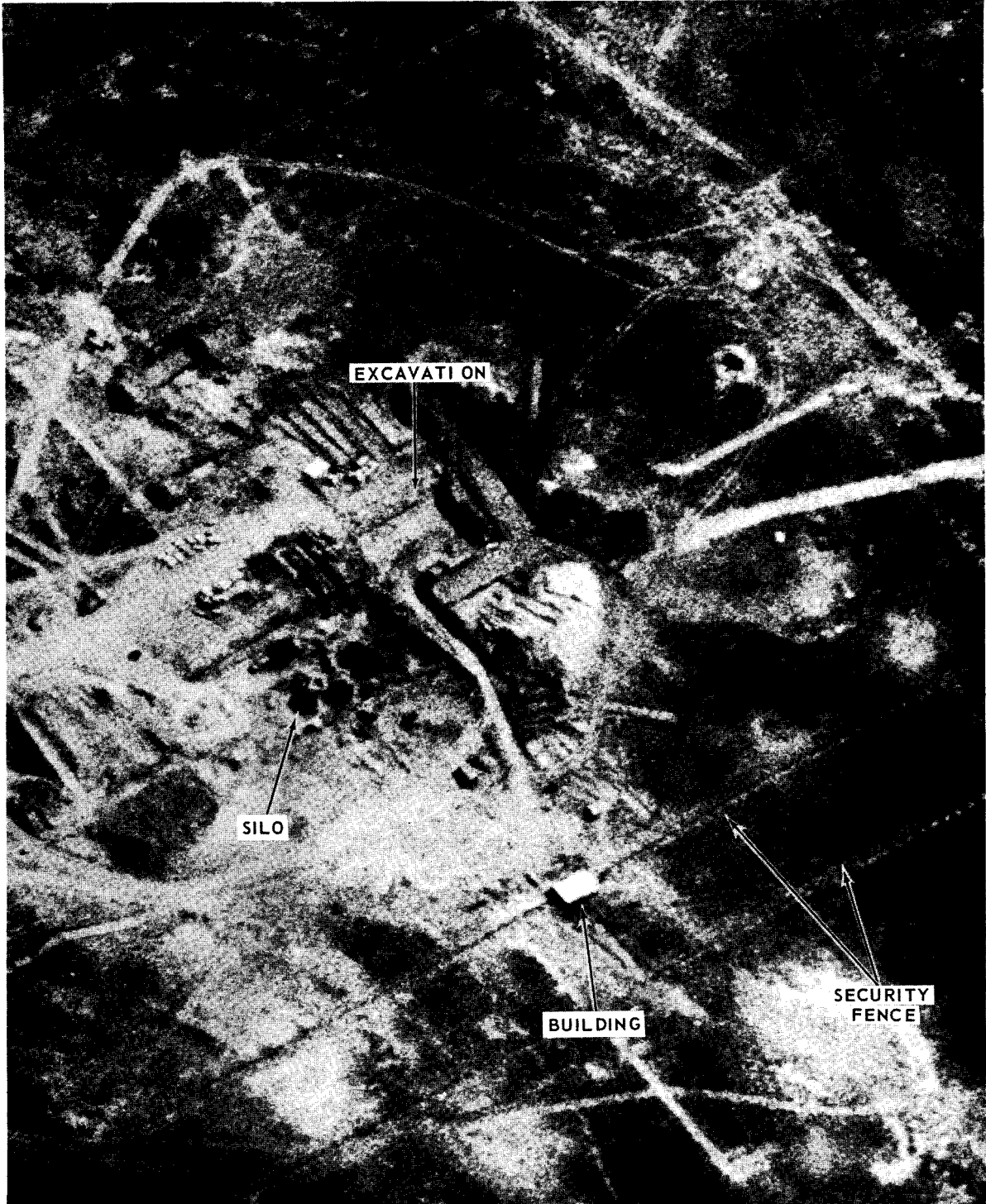
**TOP SECRET CHESS RUFF**



**TOP SECRET CHESS RUFF**

MISSION 4027, 20-25 APRIL 1966

ATTACHMENT 7



LAUNCH SITE M2, TYURATAM MISSILE TEST CENTER, USSR

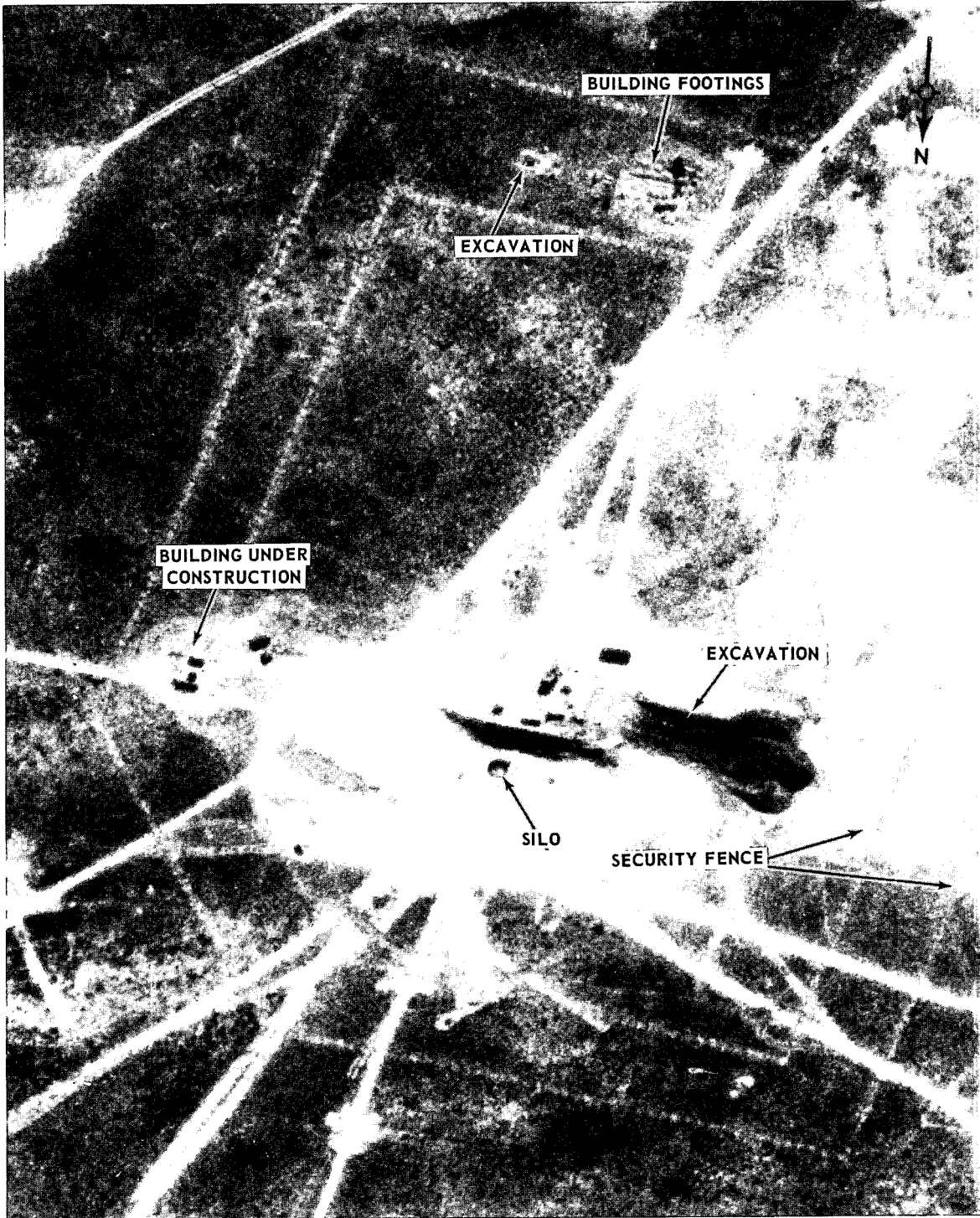
NPIC K-8124 (5/66)

**TOP SECRET CHESS RUFF**

**TOP SECRET CHESS RUFF**

MISSION 4027, 20-25 APRIL 1966

ATTACHMENT 8



LAUNCH SITE M3, TYURATAM MISSILE TEST CENTER, USSR

NPIC K-8125 (5/66)

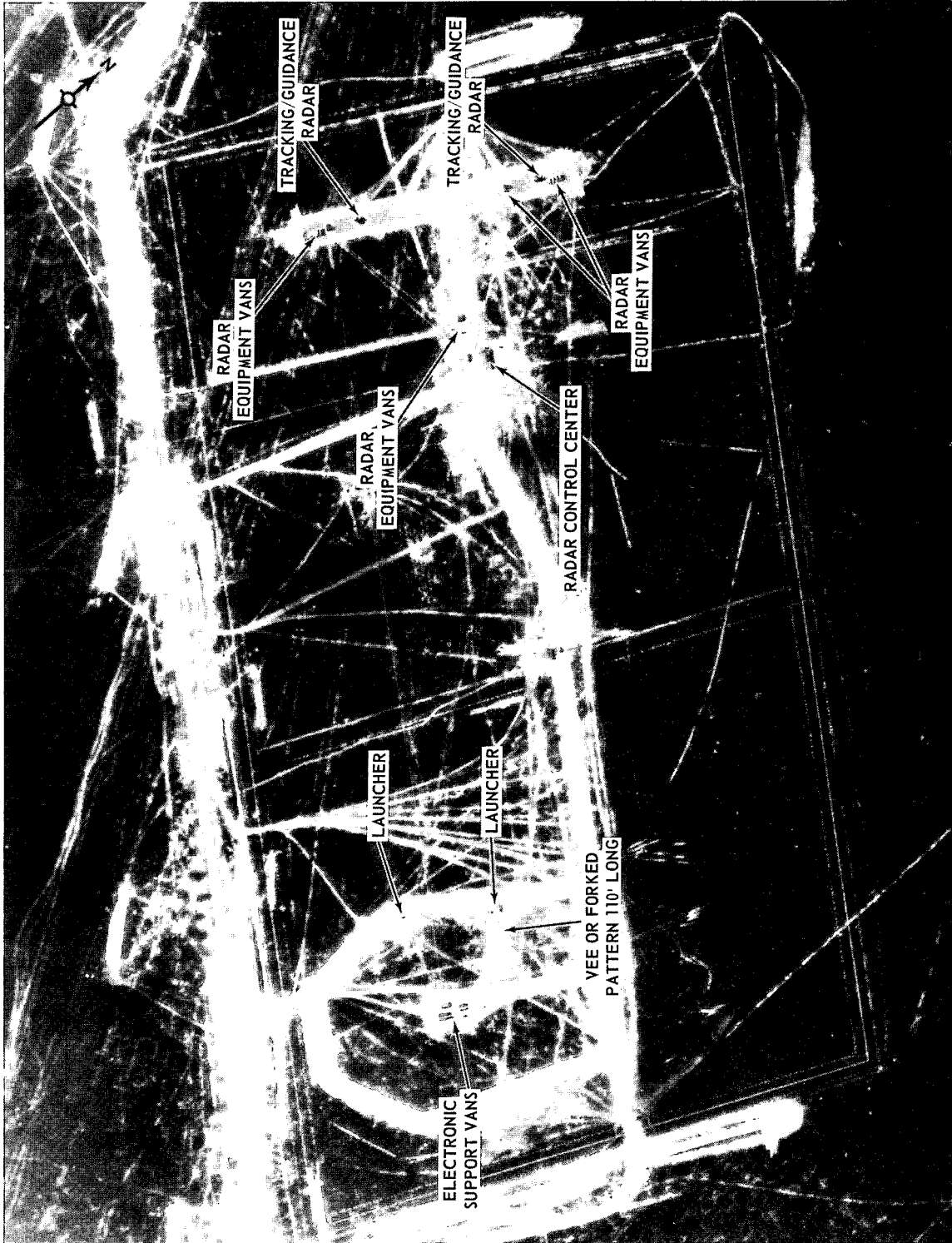
**TOP SECRET CHESS RUFF**

# TOP SECRET CHESS RUFF

MISSION 4027, 20-25 APRIL 1966

ATTACHMENT 9

25X1



PROBABLE LONG RANGE SAM LAUNCH AREA, SAM LAUNCH COMPLEX, KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR

N PIC K-8126 (6/66)

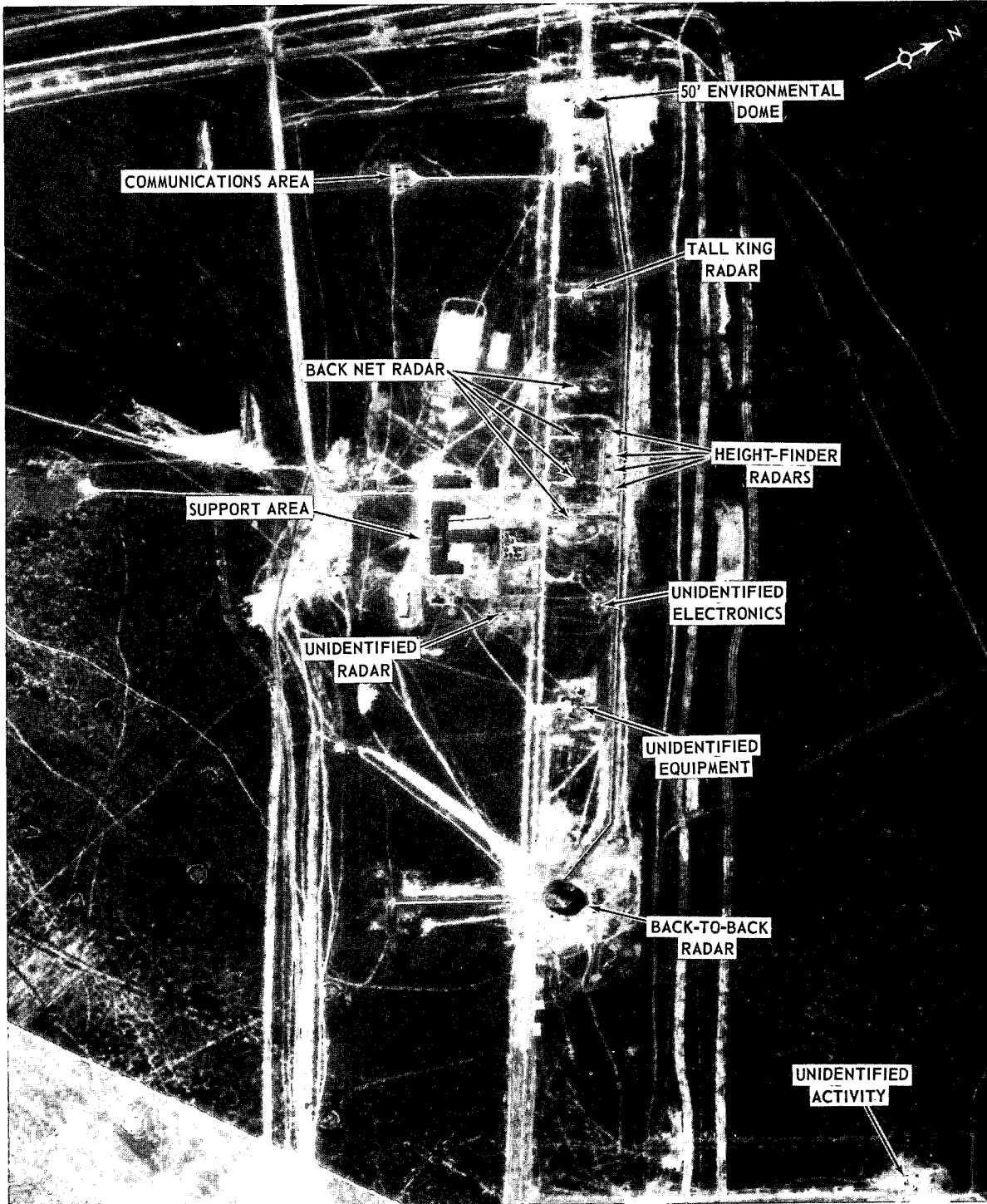
# TOP SECRET CHESS RUFF

25X1

**TOP SECRET CHESS RUFF**

MISSION 4027, 20-25 APRIL 1966

ATTACHMENT 10



NPIC K-8127 (5/66)

TRACKING/GUIDANCE RADAR FACILITY, SAM LAUNCH COMPLEX, KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR

**TOP SECRET CHESS RUFF**

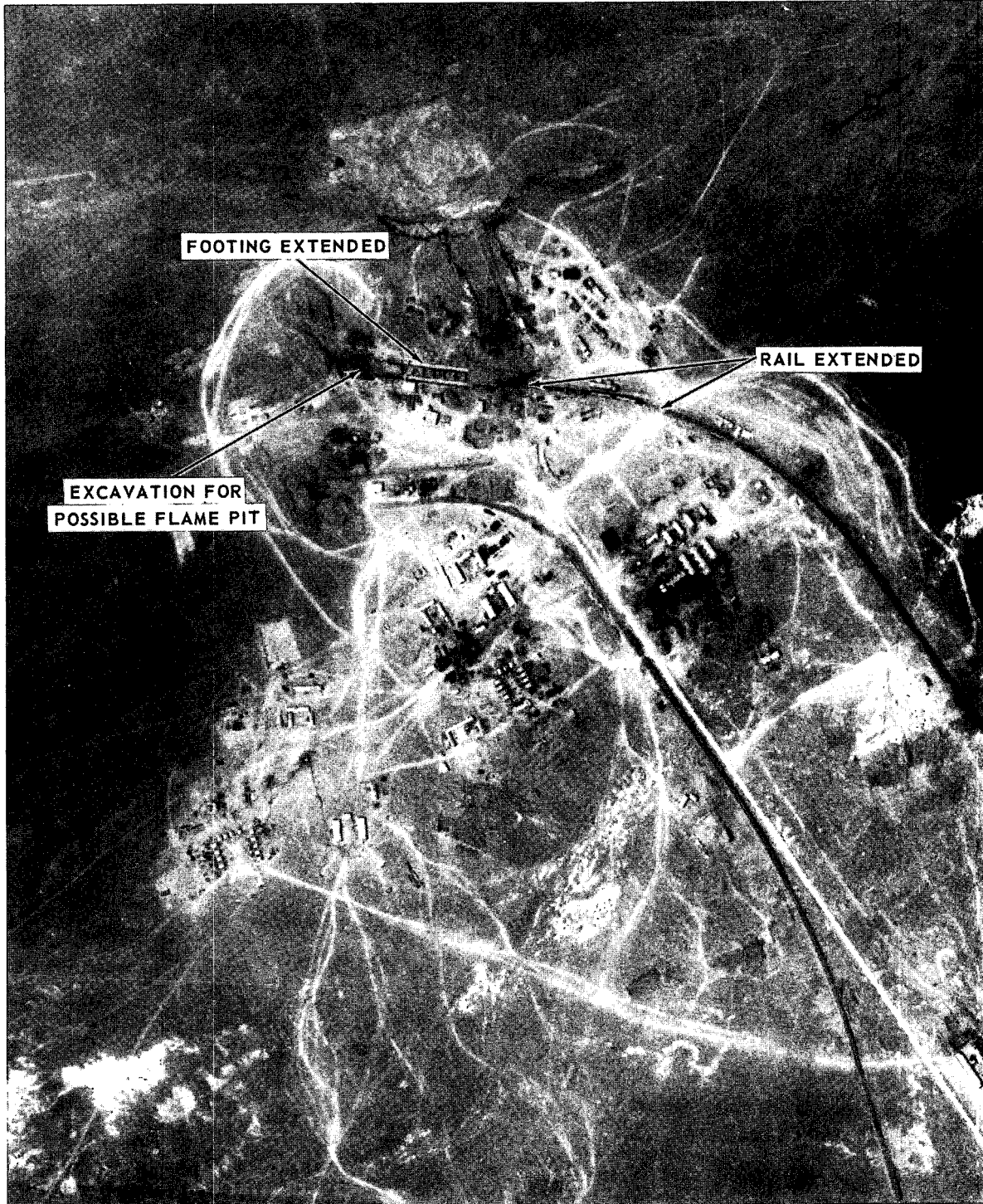


**TOP SECRET CHESS RUFF**

MISSION 4027, 20-25 APRIL 1966

ATTACHMENT 11

25X1



LAUNCH AREA B, SHUANG-CHENG-TZU MISSILE TEST CENTER, CHINA

NPIC K-8128 (5/66)

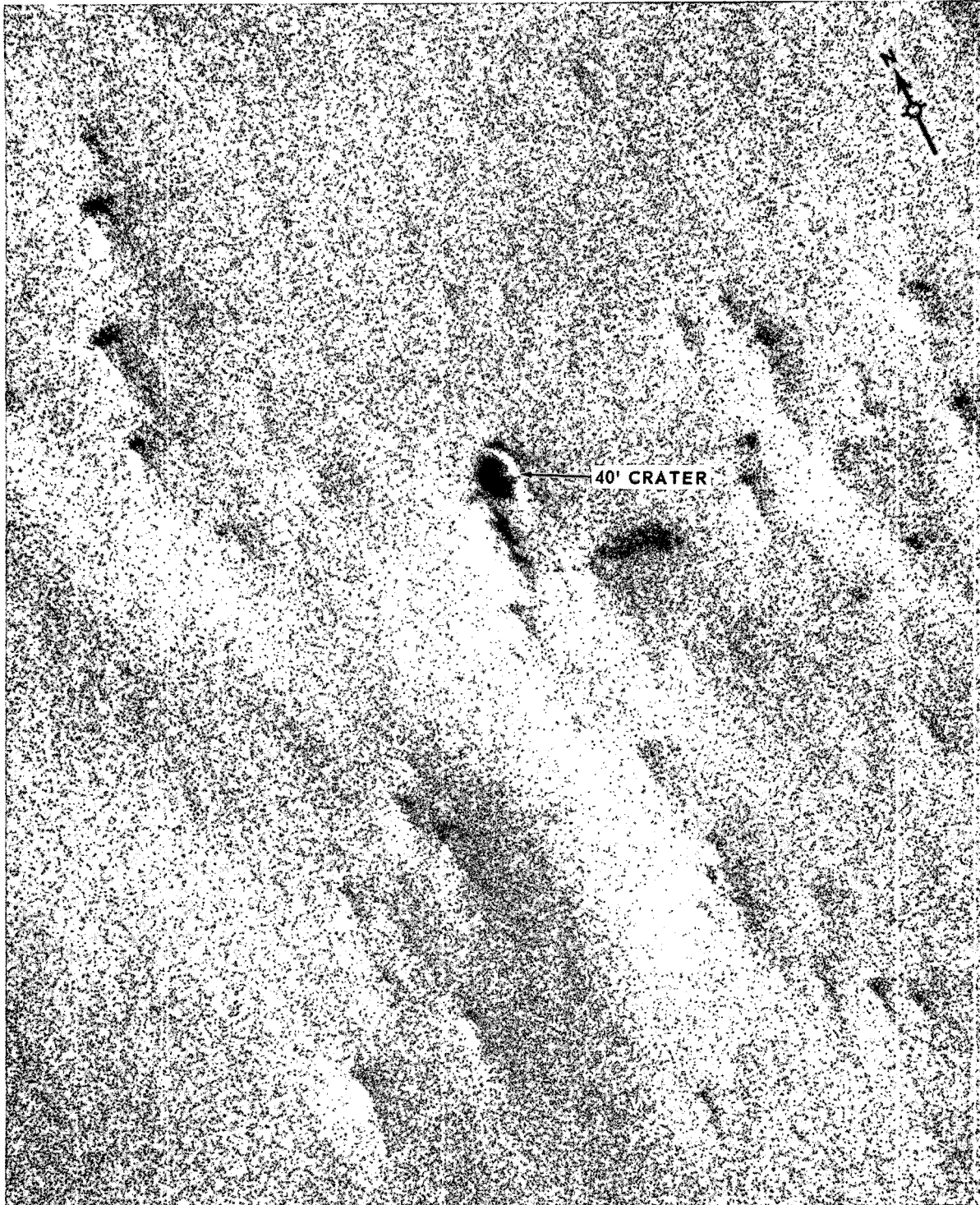
**TOP SECRET CHESS RUFF**

25X1

**TOP SECRET CHESS RUFF**

MISSION 4027, 20-25 APRIL 1966

ATTACHMENT 12



MISSILE IMPACT AREA, KAMCHATKA PENINSULA, USSR

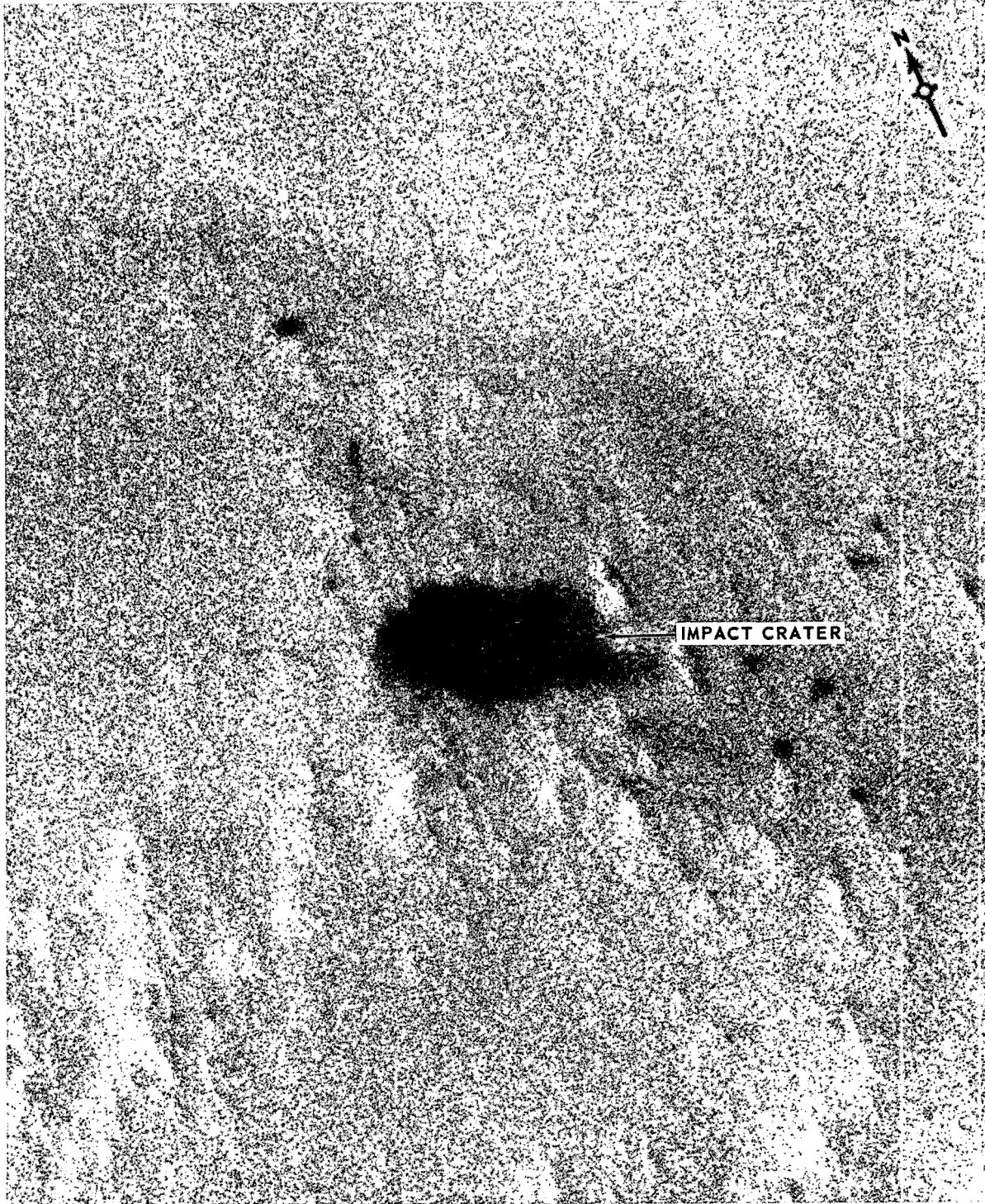
NPIC K-8129 (5/66)

**TOP SECRET CHESS RUFF**

**TOP SECRET CHESS RUFF**

MISSION 4027, 20-25 APRIL 1966

ATTACHMENT 13



MISSILE IMPACT AREA, KAMCHATKA PENINSULA, USSR

NPIC K-8130 (6/66)

**TOP SECRET CHESS RUFF**

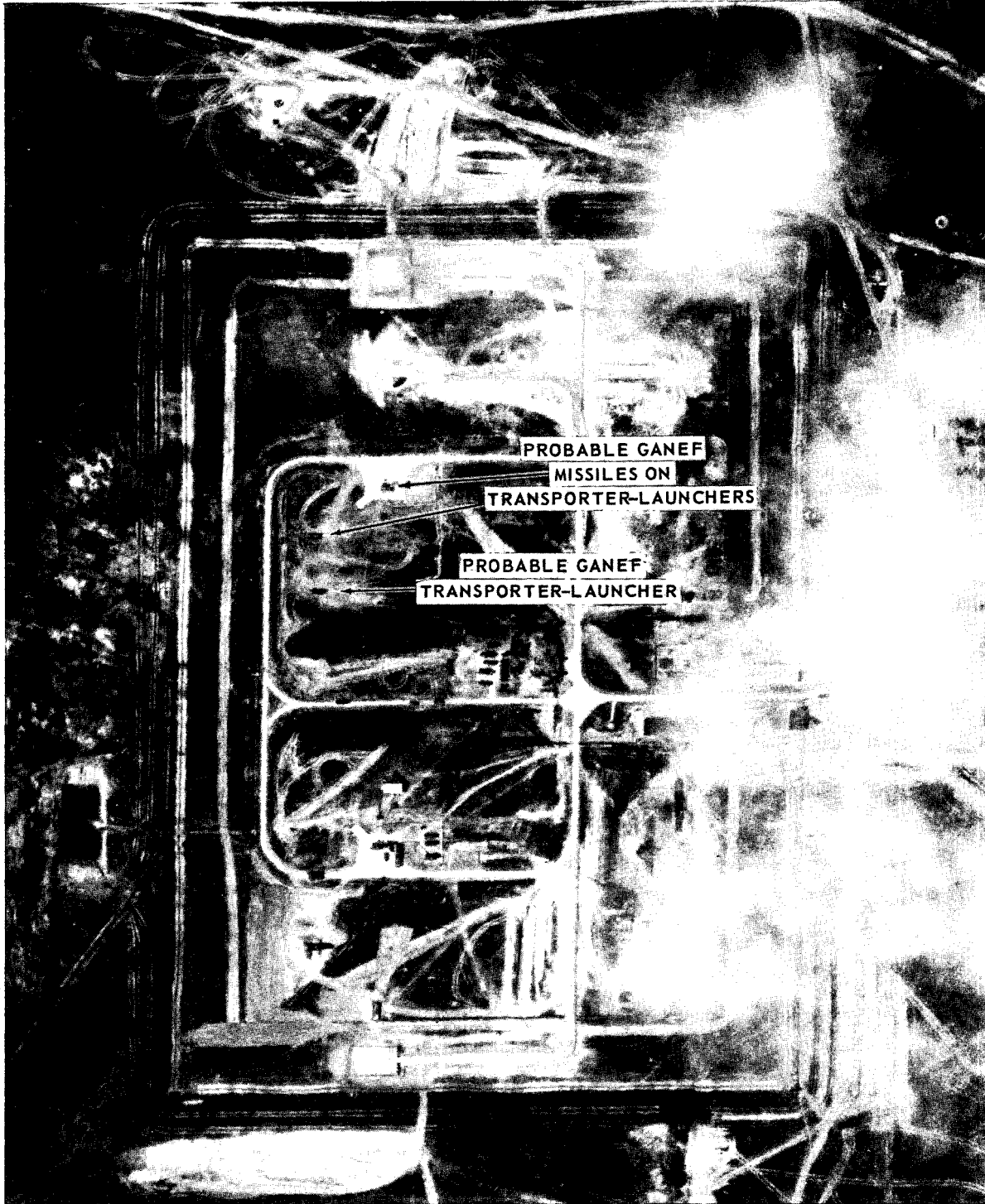


**TOP SECRET CHESS RUFF**

MISSION 4027, 20-25 APRIL 1966

ATTACHMENT 14

25X1



LAUNCH AREA, EMBA MISSILE TEST CENTER, USSR

NPIC K-8131 (5/66)

**TOP SECRET CHESS RUFF**

25X1



**TOP SECRET CHESS RUFF**

MISSION 4027, 20-25 APRIL 1966

ATTACHMENT 15

25x1  
25X1



NPIC K-8132 (5/66)

LAUNCH SITE E, NORTHWEST PROBABLE LONG RANGE SAM LAUNCH COMPLEX, LENINGRAD, USSR

**TOP SECRET CHESS RUFF**

25X1

# TOP SECRET CHESS RUFF

MISSION 4027, 20-25 APRIL 1966

ATTACHMENT 16



PROBABLE LONG RANGE SAM LAUNCH COMPLEX, TALLINN, USSR

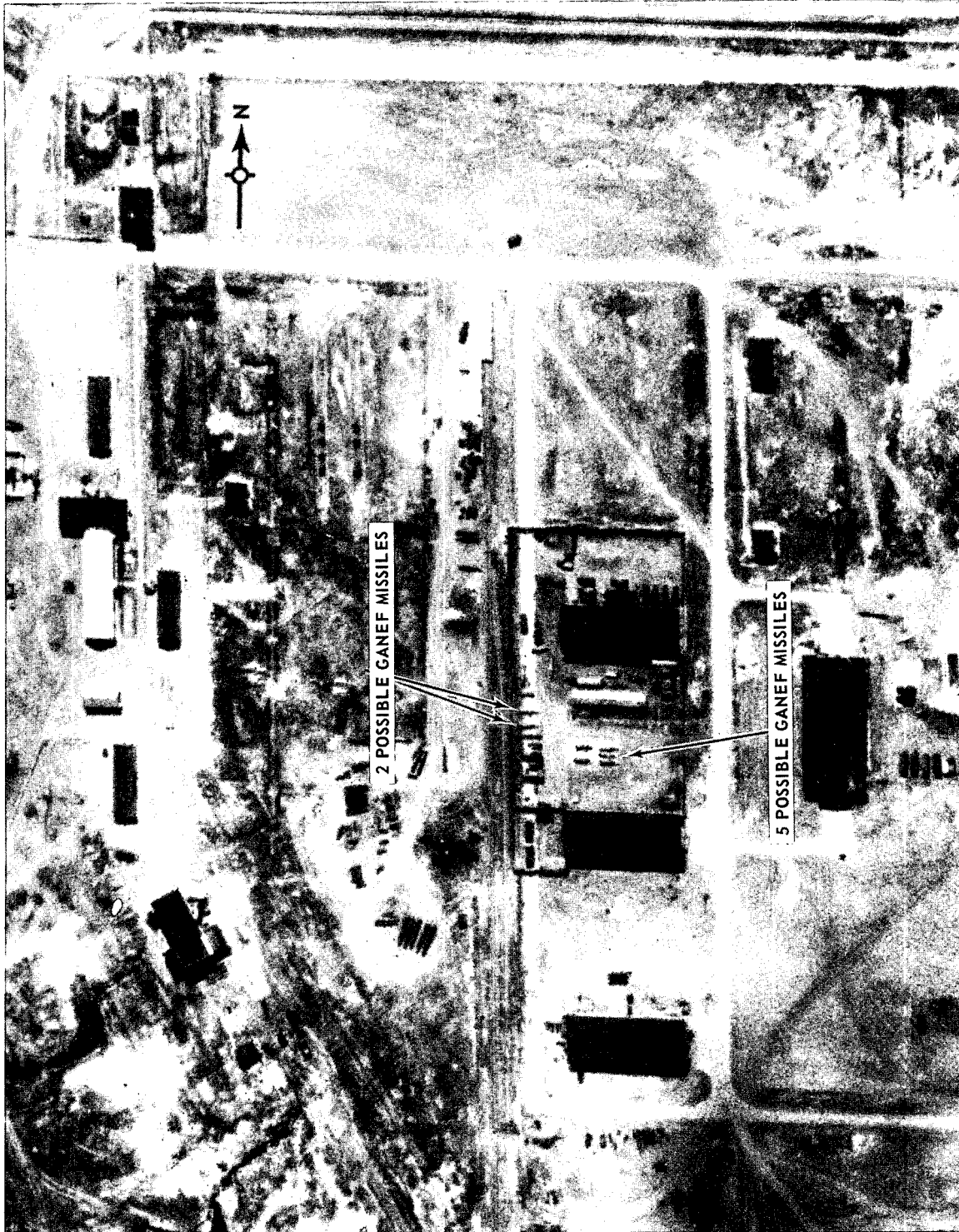
NPIC K-8133 (6/66)

# TOP SECRET CHESS RUFF

**TOP SECRET CHESS RUFF**

MISSION 4027, 20-25 APRIL 1966

ATTACHMENT 17



OPERATIONAL SUPPORT AREA, EMBA MISSILE TEST CENTER, USSR

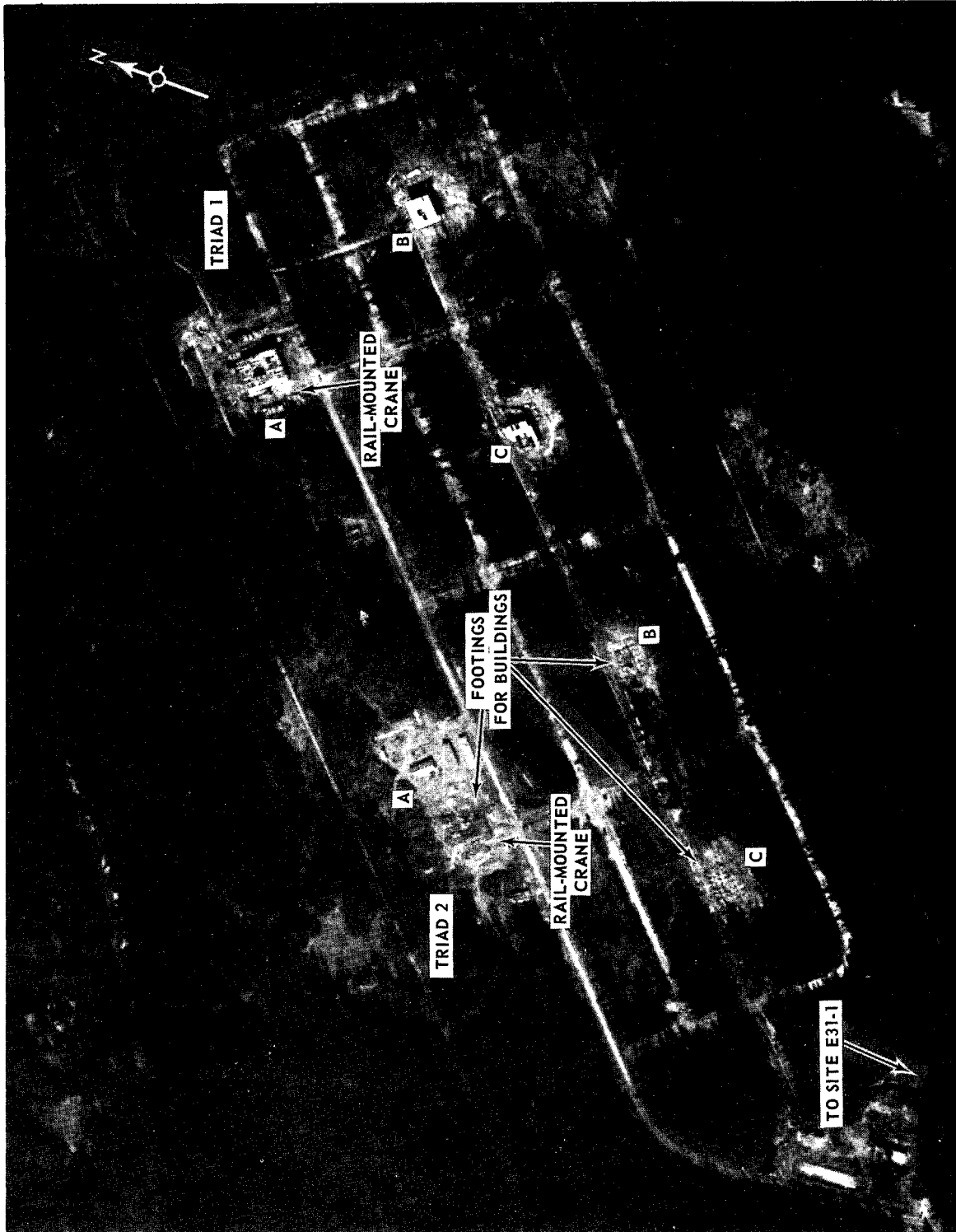
NPIC K-8134 (5/66)

**TOP SECRET CHESS RUFF**

# TOP SECRET CHESS RUFF

MISSION 4027, 20-25 APRIL 1966

ATTACHMENT 18



PROBABLE ABM LAUNCH COMPLEX UNDER CONSTRUCTION NEAR SAM SITE E31-1, MOSCOW, USSR

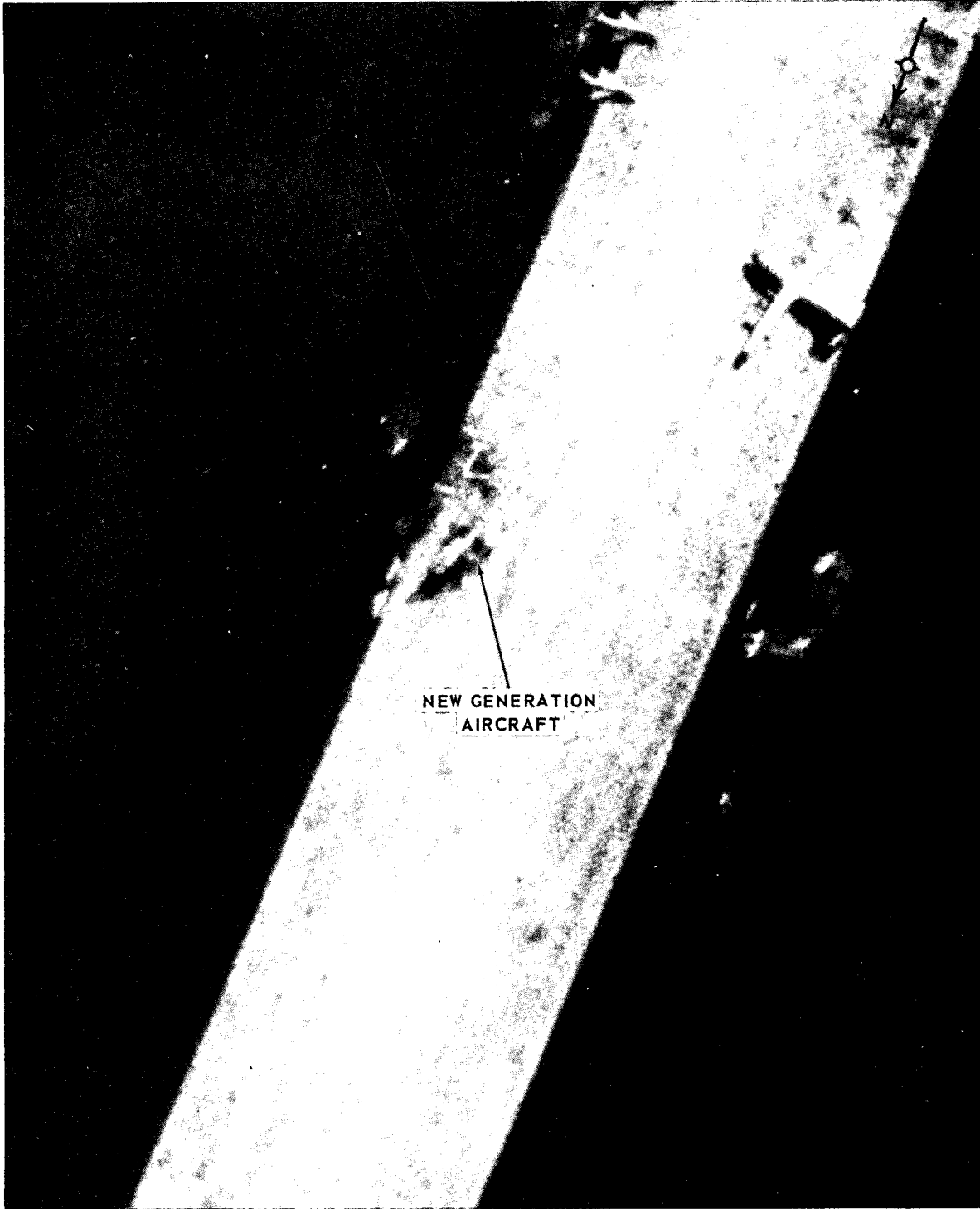
NPIC K-8135 (9/66)

# TOP SECRET CHESS RUFF

**TOP SECRET CHESS RUFF**

MISSION 4027, 20-25 APRIL 1966

ATTACHMENT 19



NOVOSIBIRSK AIRFIELD WEST, USSR

NPIC K-8136 (5/66)

**TOP SECRET CHESS RUFF**

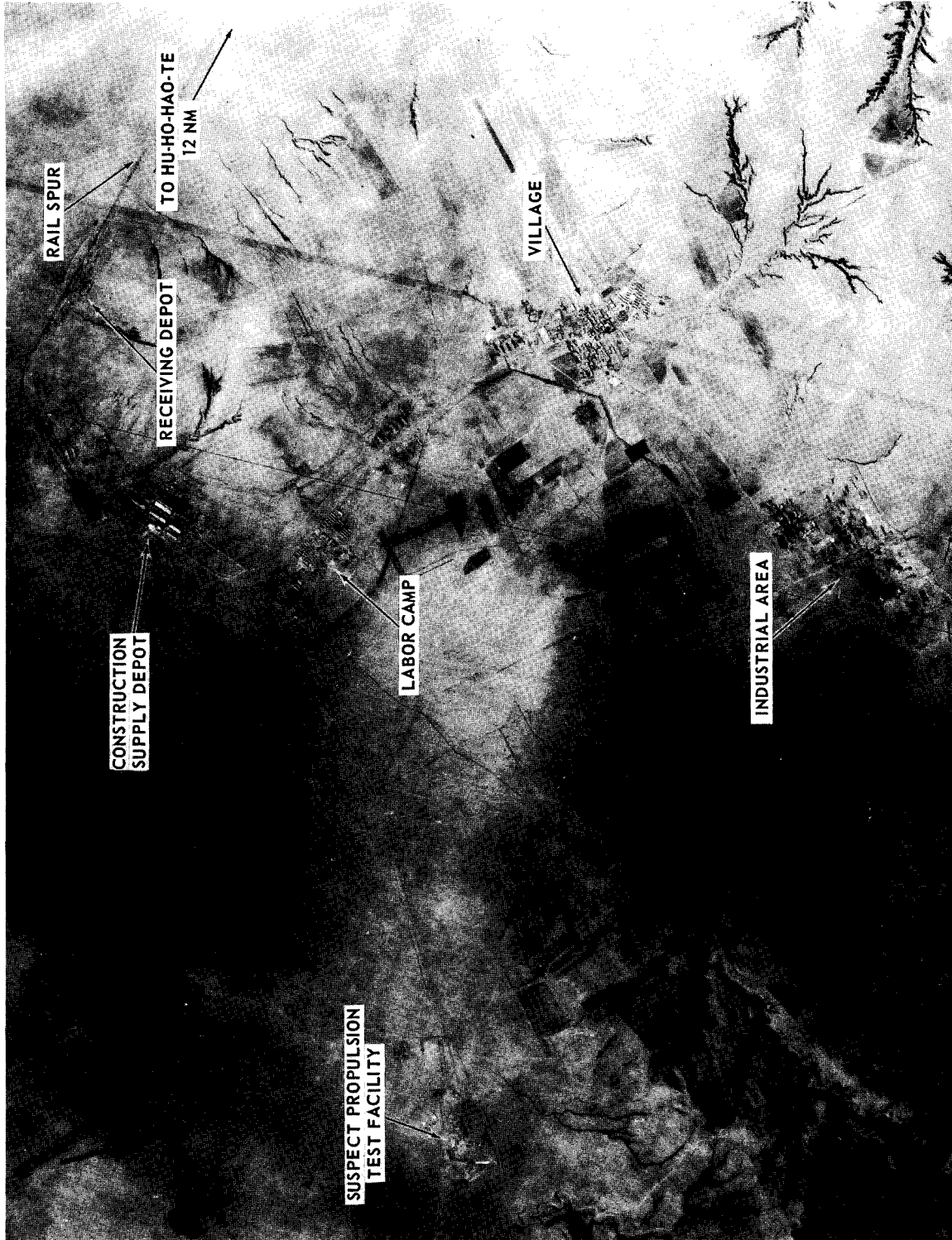
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# TOP SECRET CHESS RUFF

MISSION 4027, 20-25 APRIL 1966

ATTACHMENT 21



CONSTRUCTION ACTIVITY NEAR HU-HO-HAO-TE, CHINA

NPIC K-8138 (5/66)

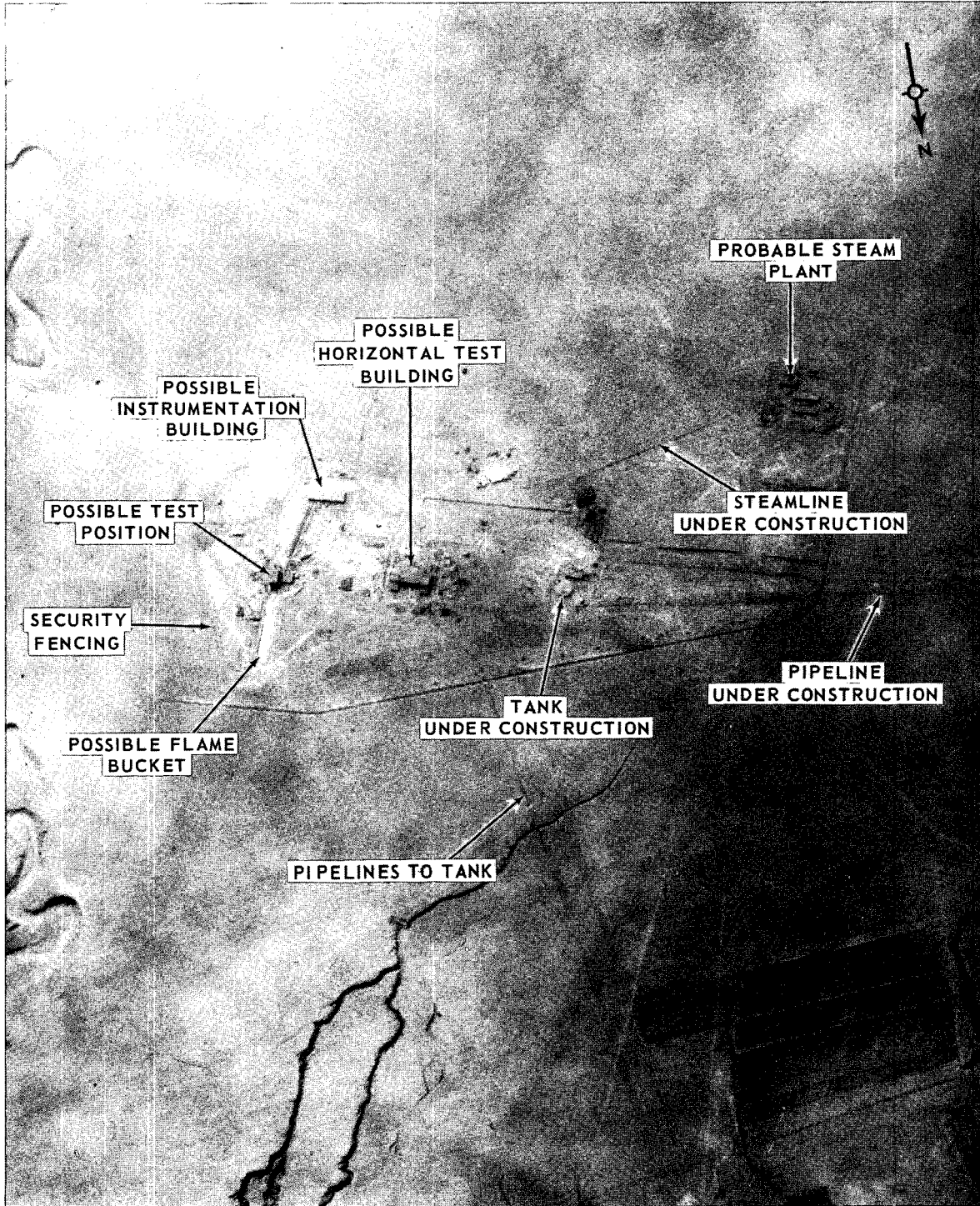
# TOP SECRET CHESS RUFF

# TOP SECRET CHESS RUFF

MISSION 4027, 20-25 APRIL 1966

ATTACHMENT 22

2525X1



SUSPECT PROPULSION TEST FACILITY, HU-HO-HAO-TE, CHINA

NPIC K-8139 (5/66)

# TOP SECRET CHESS RUFF

25X1

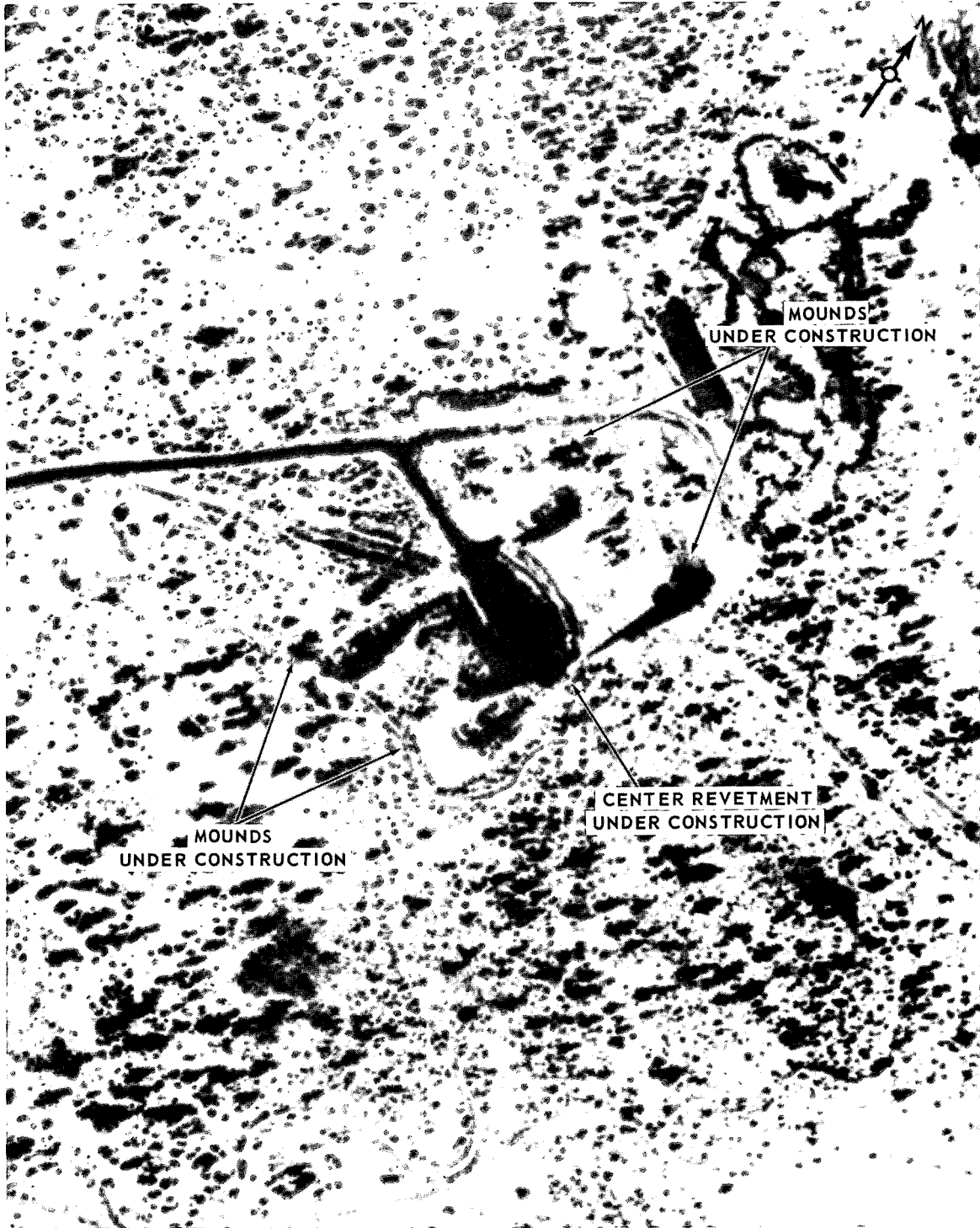


**TOP SECRET CHESS RUFF**

MISSION 4027, 20-25 APRIL 1966

ATTACHMENT 23

25x1



MOUNDS  
UNDER CONSTRUCTION

MOUNDS  
UNDER CONSTRUCTION

CENTER REVETMENT  
UNDER CONSTRUCTION

AIR WARNING FACILITY, VAANA, USSR

NPIC K-8140 (5/66)

**TOP SECRET CHESS RUFF**

25X1

**TOP SECRET**

**TOP SECRET**