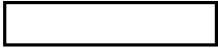


NPIC/R-498/64

June 1964



PHOTOGRAPHIC INTERPRETATION REPORT



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# OAK - PART II MISSION 1007-1 20-23 JUNE 1964



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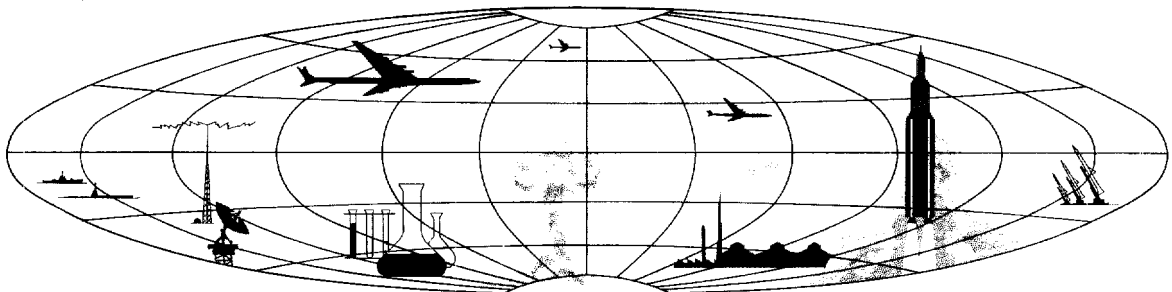
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WARNING



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Declassification Review by  
NIMA/DoD

GROUP 1  
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## OAK-PART II

## MISSION 1007-1

PREFACE

THIS IS THE SECOND AND LAST DAILY OAK REPORT ON MISSION 1007-1 DEALING WITH THE HIGHEST PRIORITY INTELLIGENCE ITEMS APPEARING IN THE COMOR TARGET LIST. THIS REPORT, COVERING THE OAK REPORTING PERIOD FROM 1500 HOURS 28 JUNE 1964 TO 1700 HOURS, 29 JUNE 1964 PRESENTS INFORMATION ONLY ON THOSE COMOR TARGETS OBSERVED ON THE PHOTOGRAPHY. COMOR TARGETS OBSERVED ON MISSION 1007-1 ARE LISTED IN THE INDEX OF THIS REPORT.

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. LOCATION OF TARGETS IN THIS REPORT IS 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 SUFFIXED WITH EITHER AN A FOR ASCENDING (SOUTH-TO-NORTH) OR D FOR DESCENDING (NORTH-TO-SOUTH). FRAMES ARE INDICATED BY THE LETTERS FR. THE LETTER F PRECEDING FRAME NUMBERS INDICATES THE FORWARD CAMERA AND THE LETTER A PRECEDING FRAME NUMBERS INDICATES THE AFT CAMERA. UNIVERSAL REFERENCE GRID (X-Y) COORDINATES ARE GIVEN IN PARENTHESIS AFTER THE FRAME 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 AS FOLLOWS -- C (CLEAR), SC (SCATTERED CLOUD COVER), HC (HEAVY CLOUD COVER), H (HAZE), CS (CLOUD SHADOW), SD (SEMI-DARKNESS), O (OBLIQUITY), S (SNOW), PQ (POOR IMAGE QUALITY).

OAK RECIPIENTS ARE CAUTIONED THAT THE INITIAL SCAN OF THE PHOTOGRAPHY FROM MISSION 1007-1 IS BEING ACCOMPLISHED IN A SHORT TIME AND OFTEN WITHOUT THE AID OF PRECISE ANALYTICAL AND MENSURAL EQUIPMENT COMMONLY EMPLOYED IN DETAILED PHOTOGRAPHIC ANALYSIS. CONSEQUENTLY, ALTHOUGH THE INFORMATION PRESENTED HEREIN IS ESSENTIALLY ACCURATE, FUTURE DETAILED ANALYSIS MAY SOMEWHAT ALTER PORTIONS OF THE INFORMATION.

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## **Highlights**

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HIGHLIGHTS

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1. YOSHKAR-OLA ICBM COMPLEX ([Redacted])

A PROBABLE COMMUNICATIONS-ASSOCIATED FACILITY IS NEWLY IDENTIFIED. IT CONTAINS A SUPPORT AREA, PROBABLE CONTROL BUILDING, AND A PROBABLE FISHBONE ANTENNA ARRAY.

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2. KOZELSK ICBM COMPLEX [Redacted]

LAUNCH AREA C IS CONSIDERED ABANDONED AND IS DROPPED FROM THE ICBM OB.

3. MISSILE BONUSES

FIXED FIELD MRBM LAUNCH SITES ARE NEWLY IDENTIFIED 3.7 NM SW OF YAZLOVCHIK, 4 NM SE OF VASILISHKI, AND 4 NM SSE OF SHCHITNO.

25X1A

4. MOSCOW SUSPECT ABM AREA [Redacted]

ALL SAM INSTALLATIONS IN THE MOSCOW DEFENSE SYSTEM ARE COVERED BY GOOD QUALITY CLOUD-FREE PHOTOGRAPHY OVER 85 PERCENT OF THE SEARCH AREA. NO NEW SARY SHAGAN OR LENINGRAD-TYPE ABM INSTALLATIONS ARE OBSERVED. APPROXIMATELY 75 PERCENT OF THE HERRINGBONE LAUNCH SITES SHOW SIGNS OF ACTIVITY.

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[Large Redacted Area]

[Redacted]

[Redacted]

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6. MOSCOW, SUSPECT AMM PHASED ARRAY RADAR [redacted]

CONSTRUCTION CONTINUES ON THE INVERTED V FRAME.

7. TA-TUNG VLF ANTENNA BONUS

A NEWLY IDENTIFIED LARGE RECTANGULAR VLF ANTENNA IS LOCATED 8 NM SOUTH OF TA-TUNG.

25X1D



STATUS OF COMOR TARGET READOUT

A TOTAL OF 140 COMOR TARGETS WERE OBSERVED IN THE OAK REPORTING PERIOD AND ARE COVERED IN PART I AND PART II.

IN ADDITION, A TOTAL OF 9 BONUS TARGETS ARE REPORTED.

TABULAR SUMMARY

A RECAPITULATION OF SIGNIFICANT ACTIVITY 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 AMM DEPLOYMENT
- TABLE 4 -- NUCLEAR ENERGY ACTIVITY
- TABLE 5 -- AIRCRAFT ACTIVITY
- TABLE 6 -- SUBMARINE ACTIVITY
- TABLE 7 -- DATE AND TIME OF PHOTOGRAPHIC PASSES

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Table 1. Soviet ICBM Deployment

Complex	Launch Area											Total Soft Sites	Total Hard Sites	Total Launch Positions	Last Effective Coverage
	A	B	C	D	E	F	G	H	I	J	K				
Drovyanaya	⊙	C	C	⊙	M	M						3	3	15	
Gladkaya	C	C	E	M	E							2	3	13	
Itatka	C	C	C									3	--	6	
Kostroma	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙				6	2	18	
Kozelsk	⊙	⊙		⊙	⊙	L						3	2	12	
Novosibirsk	C	C	M	C	C							3	2	12	
Olovyannaya	⊙	M	M									--	3	9	
Omsk	C	E										--	2	6	
Perm	C	C	C	C	C	M						5	1	13	
Plesetsk*	C	C	C	C	C							8	1	15	
Shadrinsk	⊙	⊙	L									--	3	9	
Svobodnyy	⊙	⊙	⊙	⊙	⊙	⊙	L	⊙				7	1	17	
Teykovo	⊙	⊙	⊙	⊙	⊙	⊙	E					7	--	14	
Tyumen	⊙	M	⊙	E (poss)				/				3	1 (poss)	9 (3 poss)	
Verkhnyaya Salda	C	C	C	C	C	C	C	C	C			7	2	20	
Yedrovo	C	C	M	C	C	C	M	M	C			6	3	21	
Yoshkar-Ola	⊙	⊙	⊙	⊙	⊙	⊙						6	--	12	
Yurya	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	8	3	25	
Zhangiz Tobe	E	E											2	2	
												Deployment Total	77	34 (1 poss)	
Tyuratam MTC	⊙	C	C	L	⊙	⊙	M	C	M	⊙	⊙	13	10 (4 poss)	33 (4 poss)	
												Grand Total	90	44 (5 Poss)	281 (7 Poss)

\*Includes Launch Points I-IV, complete  
Construction Status (C-complete, L-late, M-mid, E-early)



Sites covered by current mission



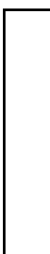
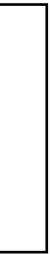
Newly identified sites

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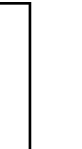
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Table 2. Soviet MRBM and IRBM Deployment

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	121	11	18	11	161	633
Caucasus	3	--	2	3	8	29
Central Asia	2	3	1	5	11	39
Far Eastern	11	1	--	2	14	54
Totals	137	15	21	21	194	755

Totals do not include 28 fixed field-type sites with total of 95 clearings and one possible launch facility at Sovetskaya Gavan.

Table 3. SAM and AMM Deployment

	Country												Totals		
	USSR	Albania	Bulgaria	Czechoslovakia	Hungary	Poland	Rumania	China	North Korea	Indonesia	Egypt	Cuba		India	
SAM sites															
SA-0	15	--	--	--	--	--	--	--	--	--	--	--	--	15	
SA-1	56	--	--	--	--	--	--	--	--	--	--	--	--	56	
SA-2	872*	1	18	21	42	11	22	12	15	2	4	14*	24**	1	1,059
SA-3	88	--	--	--	--	--	--	--	--	--	--	--	--	--	88
SAM support facilities	178	1	2	4	3	2	3	3	--	1	--	3	6	--	206
Probable AMM complexes	3	--	--	--	--	--	--	--	--	--	--	--	--	--	3

\*Does not include 4 alternate sites  
\*\*Does not include 22 abandoned sites.

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Table 5. Aircraft Activity

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Airfield	Last Coverage	Previous Significant Aircraft Count										Observed this Mission														
		BISON	BEAR	BADGER	BLINDER	BOUNDER	MANDRAME	MALLOW	FIDDLER	FITTER	FISBED	FISBOP	FIREBAY/BREWER	TOTALS	BISON	BEAR	BADGER	BLINDER	BOUNDER	MANDRAME	MALLOW	FIDDLER	FITTER	FISBED	FISBOP	FIREBAY/BREWER
Akhtubinsk/Vladimirovka		2	27										31													
Alekseyovka																										35
Anadyr/Leninka																										
Anisovo Gorodishche																										
Arkhangelsk/Kholm*																										
Artem North																										
Baranovichi*			20	18									38		24	8										32
Borzya			7									7			9											9
Belaya Tsockov		4	17									21														
Bobruysk*			27									37														
Briyani*																										
Bykhov*			75									75			59											59
Chopelovka*		41	6									47														
Dolon*		30	6									49														42
Donuslav Lako							14					14														
Engels*		33	11									44														
Gomol Pribytki			21	31								52		11	36											47
Kalinin*		3										8		3												3
Kaliningrad/Provoron			8	20								37														
Komsomolsk Plt 126									20			20														
Kazan A/C Plt 22			7	14								21		8	15											23
Mal Yavr																										
Melitopol			8								2	10														
Minsk/Machulishche*																										
Mitgorod			14									14		26	2	2										20
Moscow/Rumenskoye				6	1							7	8	4	6	1										19
Mozdok*																										
Nezhin																										
Nikolayev/Kulbakina			40									40														28
Oktyabrskoye																										
Olonogorsk			14									14			10											10
Orsha Southwest*			27									27		58												56
Ostrov Gorokhovka			4									4			31											31
Petrovavlovsk/Yelizovo																										
Poltava*																										
Priluki*			23									23		26												20
Romanovka West			20						4			24														
Ryazan/Dyagilevo		4	45									49														
Saki																										
Sarabuz			18									18														
Soveromorsk			2									2														
Sivulisi*		8	10									18														
Soltay*														26												26
Spassk Dalniy East			31									31														28
Stroy*			20									20														
Tarfa																										
Ukraina*		49	23									72	41	26												69
Ussuriysk Vozdvizhenka*			23						10			33														
Zhitomir/Skhorokki*			1									1														
TOTALS		41	100	50	93	1	14	36	4	2	800	10	4	284	66	1										674

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Table 6. Submarine Activity.

Base	Last Effective Coverage	Previous Submarine Count													Observed This Mission													
		SSBN, H-class	SSGN, E-class	SSB, G-class	SSB, Z-conversions	SSG, J-class	SSG, W-Longbin	SSV, A-class	SS, F-class	SS, Z-class	SS, R-class	SS, W-class	SS, Unidentified	OSS (SUCH IV, L-III)	TOTALS	SSBN, H-class	SSGN, E-class	SSB, G-class	SSB, Z-conversions	SSG, J-class	SSG, W-Longbin	SSV, A-class	SS, F-class	SS, Z-class	SS, R-class	SS, W-class	SS, Unidentified	OSS (SUCH IV, L-III)
Balaklava												5 (Medium)		5														
Dunay		1												1														
Khronstadt												9 (1-Poss)		9														
Komsomolsk		1												1														
Liepaya							2 F/Z (Prob)			6 W/R (Prob)				8														
Litsa Bay		4	2				4						10	2 Prob	2 Prob						2 Prob							12
Magadan											3 (Poss)		3	1 Prob						3 Poss								
Olenya Guba											7 W/R (1-Poss)		11	4 Prob						3 Poss					2 Medium		9	
Pechenga											7 W/R (Prob)		7							2 W/R				1			7	
Petropavlovsk/Kamchatskiy		1	1				2 F/Z			3 (3Poss)		6	13											4 Poss				
Petrovka		2*									3		5															
Polyarnyy							11 F/Z			10 W/R (2Poss)		21	1 Poss						9 F/Z (5 Prob) (4 Poss)		6	1 Prob		1		19		
Riga										2 9 W/R		11																
Rosta											2 (Poss)		2	5 Prob					4 F/Z (1 Prob) (3 Poss)		4 Prob			1 Poss	4		18	
Sayda Guba			3	1						1 W/R		7	2 Prob						2 Prob				2		2 Poss		8	
Sevastopol											1 (Poss)		10															
Severodvinsk											1		5															
Severomorsk												1	5															
Sovetskaya Gavan											2		2	1 Prob													1	
Gavan											5		5											7		2 Poss	9	
Strelok Strait		1					1 F/Z			1		3																
Ura Guba											1 (Poss)		1											18 W/R	4 Poss		22	
Vladimir											6 (2 Poss)		6															
Vladivostok											2		2															
TOTALS		4	12	8	1		4			2	15	47	149	2	5	12			5			3	14	22	2	1	106	
							16 F/Z			40 W/R										15			26					

\*E-1 Class

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## **Missiles**

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25X1A

MISSILES

[REDACTED] YOSHKAR-OLA ICBM COMPLEX UR 5634N 04803E

THE COMPLEX WAS COVERED BY GOOD QUALITY, CLEAR PHOTOGRAPHY.

A PROBABLE COMMUNICATIONS-ASSOCIATED FACILITY IS NEWLY IDENTIFIED ON THE NORTH SIDE OF THE COMPLEX MAIN ROAD APPROXIMATELY 2 NM NORTH OF THE TRANSFER POINT. IT CONTAINS A SUPPORT AREA WITH ONE LARGE AND SEVERAL SMALL BUILDINGS, A PROBABLE CONTROL BUILDING UNDER CONSTRUCTION AT THE TERMINUS OF THE ACCESS ROAD, AND A PROBABLE FISHBONE ANTENNA ARRAY IN A CLEARING SE OF THE SUPPORT AREA.

25X1D

CONSTRUCTION ACTIVITY OF A SUPPORT-TYPE FACILITY IS OBSERVED ON THE SOUTH SIDE OF THE COMPLEX MAIN ROAD BETWEEN LAUNCH AREAS C (SITE 3) AND D (SITE 4). THIS ACTIVITY, NEW SINCE MISSION [REDACTED] CONTAINS 3 LARGE BUILDINGS, 6 SMALL BUILDINGS, AND 6 OTHER BUILDINGS UNDER CONSTRUCTION. NO SIGNIFICANT CHANGE SINCE MISSION [REDACTED] AT THE COMPLEX SUPPORT FACILITY, TRANSFER POINT, OR LAUNCH AREAS A (SITE 1), B (SITE 2), C (SITE 3) AND D (SITE 4). LAUNCH AREA F (SITE 6) SHOWS NO CHANGE SINCE MISSION [REDACTED] LAUNCH AREA E (SITE 5) IS COMPLETE.

25X1D

25X1D

NO ABM ACTIVITY IDENTIFIED WITHIN A 50-NM RADIUS.

25X1D

[REDACTED]

25X1A

[REDACTED] DROVYANAYA ICBM COMPLEX UR 5132N 11301E

THE COMPLEX SUPPORT ACTIVITY, TRANSFER POINT, LAUNCH AREAS B (SITE 2), C (SITE 4), E (SITE 5) AND F (SITE 6) AND THE UNIDENTIFIED AREA NEAR E ARE CLOUD

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[Redacted]

[Redacted]

COVERED. LAUNCH AREAS A (SITE 1) AND D (SITE 3) AND THE SITE SUPPORT AND RIM FACILITIES OF LAUNCH AREA B -- IDENTIFICATION ONLY.

25X1D NO ABM ACTIVITY OBSERVED WITHIN 50-NM RADIUS, WHICH IS 90 PERCENT CLOUD COVERED.

[Redacted]

25X1A

[Redacted]

KOSTROMA ICBM COMPLEX UR 5746N 0410E

25X1D

COMPLEX IS COVERED ON GOOD QUALITY STEREO PHOTOGRAPHY. NO SIGNIFICANT CHANGE NOTED SINCE MISSION [Redacted] IN THE COMPLEX SUPPORT FACILITY, THE RAIL-TO-ROAD TRANSFER POINT, THE TYPE IIB LAUNCH AREAS A (SITE 1), B (SITE 2), C (SITE 3), AND D (SITE 4), THE TYPE IID AREAS F (SITE 6), G (SITE 7), AND THE TYPE IIIA AREAS E (SITE 5) AND H (SITE 8). NO ABM ACTIVITY OBSERVED WITHIN 50-NM RADIUS.

25X1D

[Redacted]

25X1A

[Redacted]

TEYKOVO ICBM COMPLEX UR 5652N 04035E

THE COMPLEX IS COVERED BY GOOD QUALITY STEREO PHOTOGRAPHY EXCEPT FOR LAUNCH AREA G (SITE 7), WHICH WAS NOT COVERED, AND LAUNCH AREA E (SITE 5), WHICH WAS COVERED BY POOR QUALITY PHOTOGRAPHY. NO SIGNIFICANT CHANGES OBSERVED IN THE COMPLEX SUPPORT FACILITY, TYPE IIB LAUNCH AREAS A (SITE 1), B (SITE 2), AND C (SITE 3) OR TYPE IID LAUNCH AREAS D (SITE 4), E (SITE 5), F (SITE 6). SEVERAL BUILDINGS ARE APPARENT IMMEDIATELY EAST OF THE

25X1D

RAIL-TO-ROAD TRANSFER POINT. THESE BUILDINGS WERE PRESENT ON MISSION [Redacted] BUT NOT ON MISSION [Redacted]

25X1D

A SMALL AREA OF NEW CONSTRUCTION IS OBSERVED SOUTH OF THE COMPLEX MAIN ROAD BETWEEN LAUNCH AREAS B AND D. AN ACCESS ROAD LEADS TO A SMALL GROUP OF BUILDINGS PRESENT ON MISSION [Redacted] THE AREA HAS BEEN ENLARGED SINCE MISSION [Redacted]

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[Redacted]

[Redacted]

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25X1D

NO ABM ACTIVITY OBSERVED IN EASTERN HALF OF SEARCH AREA. WESTERN HALF NOT COVERED.

[Redacted]

25X1A

[Redacted] YEDROVO ICBM COMPLEX UR 5751N 03341E

LAUNCH AREA G (SITE 7) -- IDENTIFICATION ONLY. REMAINDER OF COMPLEX NOT COVERED.

25X1D

NO ABM ACTIVITY OBSERVED IN CLOUD-FREE AREAS WITHIN 50-NM RADIUS. EASTERN HALF OF SEARCH AREA NOT COVERED.

[Redacted]

25X1A

[Redacted] KOZELSK ICBM COMPLEX UR 5357N 03548E

25X1D

THE COMPLEX IS COVERED BY GOOD QUALITY, CLEAR PHOTOGRAPHY. NO SIGNIFICANT CHANGES SINCE MISSION [Redacted] ARE APPARENT AT THE COMPLEX SUPPORT FACILITY, TRANSFER POINT, OR TYPE IIC LAUNCH AREAS A (SITE 3), B (SITE 2), D (SITE 4), AND TYPE IIIB LAUNCH AREA F (SITE 6). LAUNCH AREA E (SITE 5), A TYPE IIIB, IS COMPLETE WITH THE PATTERN OF THE ELECTRONICS FACILITY APPARENT. LAUNCH AREA C (SITE 1) HAS SHOWN NO CONSTRUCTION PROGRESS SINCE MISSION [Redacted] AND IS CONSIDERED ABANDONED AND WILL BE DROPPED FROM THE ICBM OB.

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25X1D

NO ABM ACTIVITY OBSERVED IN THE EASTERN HALF OF A 50-NM RADIUS. WESTERN HALF OF SEARCH AREA NOT COVERED.

[Redacted]

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25X1

[Redacted]

[Redacted]

25X1D

[Redacted]

25X1A

[Redacted]

OLOVYANNAYA ICBM COMPLEX UR 5048N 11550E

THE COMPLEX IS OBSERVED THROUGH SCATTERED CLOUDS AND HAZE. THE COMPLEX SUPPORT FACILITY, TRANSFER POINT, AND TYPE IIIA LAUNCH AREAS A (SITE 1) AND C (SITE 3) ARE IDENTIFICATION ONLY. LAUNCH AREA B (SITE 2) IS CLOUD COVERED.

NO ABM ACTIVITY OBSERVED IN THE CLOUD-FREE PORTIONS WITHIN A 50-NM RADIUS.

25X1D

[Redacted]

25X1A

[Redacted]

SLEDYUKI MRBM LAUNCH SITE UR 5341N 03020E

25X1D

NO APPARENT CHANGE SINCE MISSION [Redacted]

NO ADDITIONAL IRBM/MRBM FACILITIES OBSERVED WITHIN 25-NM RADIUS. AREA CAN BE NEGATED.

25X1D

[Redacted]

25X1A

[Redacted]

BORKHOV MRBM LAUNCH SITE I UR 5218N 03043E

NO HARD IRBM SITE OBSERVED WITHIN A 25-NM RADIUS ON CLEAR PHOTOGRAPHY. AREA CAN BE NEGATED.

25X1D

[Redacted]

25X1A

[Redacted]

KARA-BABAU IRBM LAUNCH SITE 2 UR 4431N 07758E

25X1D

NO APPARENT CHANGE SINCE MISSION [Redacted] TWO OF THE 3 SILOS ARE OPEN.

25X1D

[Redacted]

25X1

[Redacted]

[Redacted]

25X1

25X1

25X1

25X1A

[redacted] ZHITOMIR MRBM LAUNCH SITE 1 UR 5004N 02816E

NO NEW SSM ACTIVITY OBSERVED IN CLOUD-FREE PORTIONS OF SEARCH AREA. ONLY WESTERN HALF OF SEARCH AREA COVERED. HEAVY CLOUDS PRECLUDE NEGATION.

25X1D

[redacted]

25X1A

[redacted] KOZHANOVICHI MRBM LAUNCH SITE 1 UR 5210N 02751E

NO NEW SSM ACTIVITY OBSERVED WITHIN 25-NM RADIUS. AREA CANNOT BE NEGATED.

25X1D

[redacted]

25X1A

[redacted] KURDZHIPS KAYA MRBM LAUNCH SITE UR 4431N 04000E

NO ADDITIONAL MRBM LAUNCH SITE OBSERVED WITHIN A 25-NM RADIUS.

25X1D

AREA CAN BE NEGATED.

[redacted]

25X1A

[redacted] RUDNYA ZLOTINSKAYA MRBM LAUNCH SITE UR 5104N 02807E

25X1D

NO APPARENT CHANGE IN FACILITIES SINCE MISSION [redacted]

25X1D

[redacted]

25X1A

[redacted] SOKAL MRBM LAUNCH SITE 3 UR 5020N 02426E

IDENTIFICATION ONLY.

25X1D

[redacted]

25X1A

[redacted] REDKING MRBM LAUNCH SITE UR 5724N 02826E

25X9

THE LAUNCH SITE IS COMPLETE AND A [redacted] FACILITY IS UNDER CONSTRUCTION NEAR THE SITE SUPPORT FACILITY.

25X1

25X1

25X1

[Redacted]

[Redacted]

25X1D

[Redacted]

25X1A

[Redacted]

SHIRVANSKAYA MRBM LAUNCH SITE UR 4425N 03954E

NO NUCLEAR WARHEAD FACILITY OR ELECTRONICS FACILITY OBSERVED IN ASSOCIATION WITH THE HARD SITE. A COMMUNICATIONS FACILITY IS UNDER CONSTRUCTION A FEW MILES EAST OF THE TULSKAYA FIXED FIELD SITE. NO ADDITIONAL MRBM LAUNCH SITES OBSERVED WITHIN A 25-NM RADIUS. AREA CAN BE NEGATED.

25X1D

[Redacted]

25X1A

[Redacted]

KARA-BABAU IRBM LAUNCH SITE 3 UR 4431N 07743E

LAUNCH SITE 3 IS COMPLETE.

25X1D

25X1D

NO APPARENT CHANGE SINCE MISSION [Redacted]

[Redacted]

25X1A

[Redacted]

KAPUSTIN YAR/VLADIMIROVKA MSL TEST CTR UR 4835N 04545E

POOR QUALITY COVERAGE PERMITS IDENTIFICATION ONLY ON THE FOLLOWING PORTIONS OF THE SAM FACILITIES -- NEW ACTIVITY NW OF R&D LAUNCH AREA, SA-1 HERRINGBONE LAUNCH AREA, SAM HOUSING AND SUPPORT AREA, SAM [Redacted] HANDLING AND CHECKOUT AREA, SAM MISSILE CHECKOUT AND STORAGE AREA, ELECTRONICS SITE, KAPUSTIN YAR AIRFIELD, SAM MARSHALLING AREA, AND SAM BASE SUPPORT COMPLEX.

25X9

25X1D

REMAINDER OF TEST CENTER IS NOT COVERED.

[Redacted]

25X1A

[Redacted]

SARY-SHAGAN ANTIMISSILE TEST CENTER UR 4602N 07334E

PORTIONS OF THE TEST CENTER ARE OBSERVED THROUGH HEAVY TO SCATTERED CLOUDS ON GENERALLY FAIR TO GOOD QUALITY PHOTOGRAPHY. FACILITIES COVERED

25X1

[Redacted]

[Redacted]

25X1

25X1

25X1

25X1



25X1D

IN WHOLE OR IN PART INCLUDE THE MAIN HOUSING COMPLEX, THE HEN HOUSE ANTENNA, THE HEN ROOST ANTENNAS, THE PRIMARY AIRFIELD AND LONG DIRT STRIP, THE SAM TRAINING CENTER, AND INSTRUMENTATION SITES 1, 2, 3, 4, 6, AND 7. NO SIGNIFICANT CHANGE IS NOTED AT THESE FACILITIES SINCE MISSION [REDACTED], EXCEPT AT INSTRUMENTATION SITE 2 WHERE A DARK PATTERN IS NOW VISIBLE ON THE TOP OF THE DOME-SHAPED ENVIRONMENTAL SHELTER ON THE 135-FEET BY 125-FOOT BUILDING -- POSSIBLY INDICATING AN OPENING IN THE SHELTER. THE BUILDING TRIAD AREA AT SITE 2 REMAINS UNCHANGED SINCE MISSION [REDACTED]. THE ANTENNA FACE AT THE HEN HOUSE ANTENNA REMAINS DARK IN TONE AS ON MISSION [REDACTED]. CLOUDS PRECLUDE IDENTIFICATION OF ANY AIRCRAFT AT THE 16,500 FT DIRT STRIP. SAM TRAINING CENTER -- IDENTIFICATION ONLY. LAUNCH COMPLEXES A AND B AND POSSIBLE INSTRUMENTATION SITE 13 ARE NOT OBSERVED.

25X1D

25X1D

25X1D



25X1A

[REDACTED] MOSCOW GUIDED MSL ENGINE PLT KHMKI 456 UR 5554N 03727E

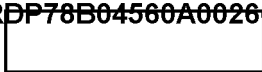
PLANT 456 PLANT AND TEST AREAS -- NO APPARENT CHANGE SINCE MISSION [REDACTED]

25X1D

TEST AREA NW (POSSIBLY RELATED TO PLANT 301) -- A NEWLY IDENTIFIED THIRD VERTICAL TEST STAND POSSIBLY STILL UNDER CONSTRUCTION IS LOCATED NORTH OF THE PREVIOUSLY-IDENTIFIED TEST STANDS. THIS STAND HAS A GREATER HORIZONTAL CROSS-SECTION THAN OTHER STANDS AND A POSSIBLE CRANE IS ATOP ITS TOWER.

TEST AREA EAST (POSSIBLY RELATED TO PLANT 293) -- THE AREA CONTAINS A NEWLY IDENTIFIED PROBABLE VERTICAL TEST STAND AND SUPPORT BUILDINGS. DISCOLORATION

25X1



25X1

[Redacted]

[Redacted]

25X1D

OF ROAD THROUGH THE BLAST AREA MAY INDICATE TEST ACTIVITY. THE ROAD WAS ALSO DISCOLORED ON MISSION [Redacted]

25X1D

THIS MISSION TOGETHER WITH MISSION [Redacted] PROVIDES BEST COVERAGE TO DATE.

25X1D

(ATTACHMENT 1)

[Redacted]

25X1A

[Redacted]

MOSCOW GM PLT & EXPMT STA KALININGRAD 88 UR 5555N 03748E

25X1D

CENTRAL ARTILLERY DESIGN BUREAU -- NO SIGNIFICANT CHANGE SINCE MISSION [Redacted] EXCEPT FOR THE IDENTIFICATION OF A HIGH-BAY SECTION ON A SHOP-TYPE BUILDING.

25X1D

AREA A -- NO APPARENT CHANGE SINCE MISSION [Redacted]

25X1D

AREA B -- NO SIGNIFICANT CHANGE SINCE MISSION [Redacted] EXCEPT FOR THE ADDITION OF A HIGH-BAY SECTION TO A SHOP-TYPE BUILDING AND TRENCHING TO INDICATE THAT THE GROUP OF BUILDINGS AT THE SW EDGE OF AREA IS STILL UNDER CONSTRUCTION AND THAT A LARGE AMOUNT OF EXPANSION IS IN PROGRESS. POSSIBLE OPEN STORAGE OF LONG, NARROW SHIPPING CRATES, CYLINDERS, OR VEHICLES IS NOTED. NO TEST STANDS OBSERVED ON BEST PHOTOGRAPHY TO DATE.

25X1D

[Redacted]

25X1A

[Redacted]

RYBINSK AIRCRAFT ENGINE PLANT 36 UR 5803N 03849E

NO ROCKET ENGINE TEST FACILITIES OBSERVED WITHIN 35 NM NORTH, SOUTH, OR WEST ON GOOD QUALITY PHOTOGRAPHY. AREA EAST IS NOT COVERED. NO MISSILES OR MISSILE HANDLING EQUIPMENT OBSERVED WITHIN THE PLANT AREA.

25X1D

[Redacted]

[Redacted]

[Redacted]

25X1A

[ ] TBILISI AIRFRAME PLANT 31 UR 4140N 04452E

25X1D THE RECENTLY ENLARGED BUILDING REPORTED ON MISSION [ ] HAS BEEN ROOFED, BUT CONSTRUCTION CONTINUES. ONE SMALL BUILDING HAS BEEN ADDED IN THE NE SECTION OF THE PLANT SINCE MISSION [ ] NO AIRCRAFT OR MISSILE ACTIVITY OR EQUIPMENT IDENTIFIED.

25X1D

25X1D

[ ]

25X1A

[ ] HSI-AN AIRFRAME PLANT YEN-LIANG AF CH 3439N 10915E

NO PROGRESS APPEARS TO HAVE BEEN MADE ON 2 OF 3 BUILDINGS UNDER CONSTRUCTION ON [ ] BUT THE BUILDING IN THE CENTER OF THE PLANT AREA WHICH HAD ONLY FOUNDATION FOOTINGS VISIBLE NOW APPEARS TO BE IN THE FINAL STAGES OF CONSTRUCTION. A TAXIWAY HAS BEEN BUILT FROM THE PLANT TO NEARBY YEN-LIAN AIRFIELD. THE PLANT IS RAIL-CONNECTED TO HSIAN 22 NM SW. IMAGE QUALITY PRECLUDES IDENTIFICATION OF AIRCRAFT OR MISSILE COMPONENTS.

25X1C

25X1D

[ ]

25X1A

[ ] KUYBYSHEV AIRCRAFT ENGINE PLT FRUNZE 24 UR 5312N 05017E

THE PLANT SHOWS SIGNIFICANT EXPANSION. A NEW LARGE ASSEMBLY/MACHINE SHOP IN THE NW CORNER OF THE PLANT HAS BEEN COMPLETED SINCE MISSION [ ] A NEW POSSIBLE MACHINE/WORKSHOP IS UNDER CONSTRUCTION IMMEDIATELY NE OF THE NEW ASSEMBLY/MACHINE SHOP.

25X1D

25X1D

[ ]

25X1A

[ ] KAMENSK-SHAKHTINSKIY PROB STAT TEST FAC UR 4819N 04016E

NO APPARENT CHANGE SINCE MISSION [ ]

25X1D

THE FACILITY CANNOT BE CONFIRMED OR NEGATED DUE TO POOR IMAGE QUALITY.

25X1

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[Redacted]

[Redacted]

25X1D

[Redacted]

25X1A

[Redacted]

MAKINSK SUSPECT SSM AREA UR 5234N 07026E

NO NEW SSM ACTIVITY OBSERVED WITHIN THE CLOUD-FREE PORTIONS OF THE 50-NM RADIUS.

25X1D

[Redacted]

25X1A

[Redacted]

VORONEZH SUSPECT SSM AREA UR 5139N 03911E

NO NEW SSM ACTIVITY OBSERVED IN WESTERN TWO-THIRDS OF 50-NM SEARCH AREA. EASTERN ONE-THIRD NOT COVERED.

25X1D

[Redacted]

25X1A

[Redacted]

KRASNAYA GORBATKA SUSPECT SSM AREA UR 5553N 04146E

NO SSM-RELATED ACTIVITY OBSERVED IN CLOUD-FREE AREAS WITHIN A 50-NM RADIUS. SEARCH AREA APPROXIMATELY 70 PERCENT CLOUD COVERED.

25X1D

[Redacted]

25X1A

[Redacted]

ZAKOPYTE SUSPECT SSM AREA UR 5138N 03020E

NO NEW SSM-RELATED ACTIVITY OBSERVED WITHIN A 50-NM RADIUS.

25X1D

[Redacted]

25X1A

[Redacted]

NOVOSTROYKA SUSPECT SSM AREA UR 5619N 03803E

NO NEW SSM ACTIVITY OBSERVED IN WESTERN TWO-THIRDS OF 50 NM-RADIUS. EASTERN ONE-THIRD NOT COVERED.

25X1D

[Redacted]

25X1

[Redacted]

[Redacted]

25X1



[Redacted]

[Redacted]

25X1A

[Redacted] ROMNY SUSPECT SSM AREA UR 5044N 03328E

NO SSM-RELATED ACTIVITY WITHIN A 50-NM RADIUS WEST OF ROMNY. MAJOR PORTION OF EASTERN HALF OF SEARCH AREA NOT COVERED.

25X1D

AN AREA OF NEW CONSTRUCTION, CONTAINING SEVERAL BUILDINGS AND SERVED BY A RAIL SPUR UNDER CONSTRUCTION, IS IDENTIFIED. AN EXCAVATION WITH NO DEFINITE PATTERN IS LOCATED ABOUT ONE MILE NORTH OF THE BUILDINGS AND 45 NM SSW OF ROMNY AT 50-02N 033-07E. THERE WAS NO ACTIVITY IN THIS AREA ON MISSION [Redacted]

25X1D

[Redacted]

25X1A

[Redacted] ALEYSK SUSPECT SSM AREA UR 5229N 08247E

ONLY NORTHERN HALF OF SEARCH AREA COVERED. AREA IS 60 PERCENT CLOUD-COVERED. NO SSM ACTIVITY OBSERVED.

25X1D

[Redacted]

25X1A

[Redacted] VLADIMIR SUBMARINE BASE UR 4355N 13528E

HAZE, CLOUDS, AND POOR IMAGE QUALITY PRECLUDE DETAILED INTERPRETATION.

25X1D

VESSELS -- NONE OBSERVED.

[Redacted]

25X1A

[Redacted] VLADIVOSTOK NAVAL BASE AND SHIPYARD 202 UR 4306N 13156E

HAZE, OBLIQUITY AND POOR IMAGE QUALITY PRECLUDE IDENTIFICATION OF ANY MISSILE-RELATED ACTIVITY AT THE SHIPYARD.

APPROXIMATELY 100 UNIDENTIFIED VESSELS INCLUDING ONE POSSIBLE CL ARE OBSERVED IN GOLDEN HORN BAY. APPROXIMATELY 25 OTHER UNIDENTIFIED VESSELS ARE OBSERVED IN ADJACENT WATERS, INCLUDING ONE POSSIBLE

[Redacted]

[Redacted]

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SS AT ULIS BAY.

NO NAVAL GM STORAGE, SUBMARINE BASES, OR NUCLEAR WEAPONS STORAGE AREAS OBSERVED IN SMALL PORTION OF SEARCH AREA VISIBLE.

25X1D



25X1A

MOSCOW SUSPECT ABM AREA UR 5545N 03737E

ALL SAM INSTALLATIONS IN THE MOSCOW DEFENSE SYSTEM ARE COVERED BY GOOD QUALITY CLOUD-FREE PHOTOGRAPHY. THE EASTERNMOST EDGE OF THE SEARCH AREA (APPROXIMATELY 15 PERCENT) WAS NOT COVERED. NO SARY SHAGAN OR LENINGRAD-TYPE ABM INSTALLATIONS ARE OBSERVED IN THE VISIBLE PORTION OF THE SEARCH AREA, WITH THE EXCEPTION OF THOSE REPORTED SEPARATELY.

APPROXIMATELY 75 PERCENT OF THE HERRINGBONE LAUNCH SITES SHOW SIGNS OF ACTIVITY -- RANGING FROM VERY MINOR EARTH SCARS IN MANY CASES TO SUBSTANTIAL GROUND SCARRING AT SEVERAL SITES.

25X1D



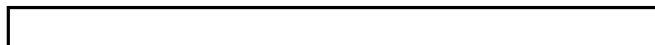
25X1A

MOSCOW SAM SITE E05-1 UR 5614N 03835E

AN UNIDENTIFIED STRUCTURE IS VISIBLE ADJACENT AND PARALLEL TO THE END OF THE LARGE TRIAD BUILDING OPPOSITE THE 2 SMALLER BUILDINGS. THIS STRUCTURE IS SIMILAR IN APPEARANCE AND LOCATION TO STRUCTURES SEEN AT MOSCOW SITES E15-1, E24-1, E33-1, AND SITE 13, SARY SHAGAN ANTIMISSILE TEST CENTER.

AN UNIDENTIFIED RAISED OBJECT IS PRESENT ON THE REAR PORTION OF THE ROOF OF THE LARGE TRIAD BUILDING. LINEAR UNIDENTIFIED ACTIVITY IS PRESENT ON THE ROOF OF THE NW SMALL TRIAD BUILDING. NO RAISED OBJECTS ARE VISIBLE ON THE ROOF OF THE SE SMALL TRIAD BUILDING.

25X1D



TOP SECRET



[Redacted]

[Redacted]

25X1A

[Redacted] MOSCOW SAM SITE E33-1 UR 5620N 03648E

25X1D

ANNULAR STRUCTURES ARE NOW VISIBLE ON THE ROOF OF EACH OF THE 3 BUILDINGS IN THE TRIAD. THE STRUCTURE ON THE LARGE BUILDING APPEARS TO BE NOTICEABLY HIGHER THAN THOSE ON THE SMALLER BUILDINGS. THE PROBABLE PASSAGEWAY OR CONDUIT REPORTED TO THE REAR OF THE LARGE BUILDING ON MISSION [Redacted] IS NOT VISIBLE ON THIS MISSION.

25X1D

25X1D

A LARGE GROUND SCAR ON THE NE SIDE OF THE HERRINGBONE REPORTED ON MISSION [Redacted] NOW CONTAINS 2 PARALLEL WALLS OR REVETMENTS. ACTIVITY CONTINUES AT ANOTHER GROUND SCAR IMMEDIATELY OUTSIDE THE TRIAD SECURITY FENCING.

[Redacted]

25X1A

[Redacted] MOSCOW SAM SITE E15-1 UR 5509N 03822E

25X1D

NO SIGNIFICANT CHANGE DISCERNIBLE IN THE TRIAD FACILITIES SINCE [Redacted] UNIDENTIFIED

25X1D

STRUCTURE TO REAR OF LARGE BUILDING IN TRIAD OBSERVED ON [Redacted] CAN NOT BE DETECTED. IN

25X1D

THE SE QUADRANT OF THE HERRINGBONE ARE 2 LINEAR EXCAVATIONS LOCATED AT ADJACENT SA-1 LAUNCH POSITIONS. THE EXCAVATIONS ARE AT A 45 DEGREE ANGLE TO THE LAUNCHER SERVICE ROAD. ONE WAS PRESENT ON [Redacted] THE OTHER HAS APPARENTLY

25X1D

BEEN DUG SINCE. SEVERAL OTHER POINTS OF UNIDENTIFIED SCARRING ACTIVITY ARE OBSERVED ELSEWHERE ON THE HERRINGBONE. A PROBABLE DRIVE-THROUGH STRUCTURE OVER ONE LAUNCH POSITION AT THIS SITE IDENTIFIED ON [Redacted] IS STILL PRESENT.

25X1D

[Redacted]

BONUS 1. YAZLOVCHIK FIXED FIELD MRBM LAUNCH SITE UR 5005N 02502E

A FIXED FIELD MRBM LAUNCH SITE HAS BEEN NEWLY IDENTIFIED IN A WOODED AREA 6.3 NM WEST OF BRODY MRBM LAUNCH SITE 1 AND 3.7 NM SW OF YAZLOVCHIK. THERE WAS NO SITE AT THIS LOCATION ON MISSION [Redacted] IT

25X1D

25X1

[Redacted]

[Redacted]

25X1

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TOP SECRET

25X1

25X1D

CONSISTS OF 4 PAD-LIKE CLEARINGS. ONE CLEARING WAS PRESENT ON MISSION [REDACTED] WITH THE INITIAL SCARRING FOR ANOTHER. THE CLEARINGS, ARRANGED IN A RECTANGULAR PATTERN, HAVE AN AZIMUTH SIMILAR TO THAT OF THE BRODY MRBM LAUNCH SITES. NO ACTIVITY IS VISIBLE IN THE AREA.

25X1D

[REDACTED]

BONUS 2. SHCHITNO FIXED FIELD MRBM LAUNCH SITE UR 5243N 02458E

A NEWLY IDENTIFIED FIXED FIELD TYPE MRBM IS LOCATED IN A WOODED AREA 11 NM SE OF RUZHANY MRBM LAUNCH SITE 1 AND 4 NM SSE OF SHCHITNO AND CONSISTS OF 4 INTERCONNECTED PAD-LIKE CLEARINGS ORIENTED LIKE ONE OF THE KRUSHANY MRBM LAUNCH SITES. NO ACTIVITY IS APPARENT AT THE INSTALLATION.

25X1D

[REDACTED]

BONUS 3. VASILISHKI FIXED FIELD MRBM LAUNCH SITE UR 5344N 02456E

A FIXED FIELD TYPE MRBM LAUNCH SITE HAS BEEN NEWLY IDENTIFIED IN A WOODED AREA 14.5 NM WSW OF LIDA MRBM LAUNCH SITE 1 AND 4 NM SE OF VASILISHKI. IT CONSISTS OF 4 INTERCONNECTED PAD-LIKE CLEARINGS ORIENTED SIMILAR TO THOSE OF THE LIDA MRBM SITES. AN OBJECT IS DISCERNIBLE IN EACH OF THE CLEARINGS. FOUR PROBABLE READY TENTS OR BUILDINGS ARE SITUATED IN A LARGE CLEARING ALONG THE ACCESS ROAD. AN OCCUPIED TENT AREA IS IMMEDIATELY NORTH OF THE SITE.

25X1D

[REDACTED]

BONUS 4. KYAKHTA SAM SITE UR 5020N 10626E

NEWLY IDENTIFIED COMPLETED SA-2 SAM SITE IS LOCATED 1.5 NM SOUTH OF KYAKHTA AT 50-20-10N 106-26-50E.

25X1D

[REDACTED]

25X1

25X1

**Air  
Facilities**

25X1

TOP SECRET

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25X1

[Redacted]

[Redacted]

25X1A

AIR FACILITIES

[Redacted] MIRGOROD AIRFIELD UR 4956N 03339E

AIRCRAFT -- 2 PROBABLE AND ONE POSSIBLE BLINDER, 26 BADGER, AND ONE SMALL STRAIGHT-WING ON HARDSTANDS, AND ONE MEDIUM STRAIGHT-WING ON GRASS NEAR SW LOOP TAXIWAY.

25X1D

[Redacted]

25X1A

[Redacted] OSTROV/GOROKHOVKA AIRFIELD UR 5718N 02826E

25X1D

NO APPARENT CHANGE SINCE MISSION [Redacted]

AIRCRAFT -- 31 BADGER, 2 MEDIUM STRAIGHT-WING, AND 2 MEDIUM PROBABLE TWIN ENGINE STRAIGHT-WING ON HARDSTANDS ALONG TAXIWAY.

25X1D

[Redacted]

25X1A

[Redacted] WU-KUNG AIRFIELD CH 3417N 10815E

CONSTRUCTION AT THE AIRCRAFT PLANT SOUTH OF THE AIRFIELD CONTINUES. THE PLANT APPEARS TO BE NEARING COMPLETION.

25X1D

AIRCRAFT -- 13 BULL AND ONE BADGER.

[Redacted]

[Large Redacted Area]

25X6

25X1

[Redacted]

[Redacted]

**Nuclear  
Energy**

25X2

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**Naval  
Activity/  
Ports**

25X1

[Redacted]

TOP SECRET

[Redacted]

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[Redacted]

25X1

25X1A

NAVAL ACTIVITY/PORTS

[Redacted]

NIKOLAYEV SHIPYARD NOSENKO 444 UR 4657N 03159E

25X1D

NO APPARENT CHANGE IN FACILITIES SINCE MISSION [Redacted]

VESSELS UNDER CONSTRUCTION ON THE BUILDING WAYS INCLUDE ONE 535 BY 90 FT, TWO 340 BY 50 FT, ONE 390 BY 70 FT, AND ONE 490 BY 80 FT. SEVEN VESSELS ARE LOCATED IN THE BASIN, INCLUDING TWO 310 BY 45 FT, TWO 440 BY 70 FT, AND THREE 270 BY 40 FT. ALL DIMENSIONS ARE APPROXIMATE. NONE OF THESE APPEAR TO BE NAVAL VESSELS. NO SUBMARINE FACILITIES OBSERVED.

25X1D

[Redacted]

25X1A

[Redacted]

NIKOLAYEV SHPYD NORTHERN 61 KOMMUNA 445 UR 4659N 03201E

NO APPARENT CHANGE IN FACILITIES SINCE MISSION [Redacted]

25X1D

VESSELS -- ONE PROBABLE FLOATING DRYDOCK.

25X1D

[Redacted]

[Redacted]

[Redacted]

25X1

25X1

**Electronics/  
Communications**

[Redacted]

[Redacted]

ELECTRONICS/COMMUNICATIONS

25X1A

[Redacted] YU-MEN, SUSPECT INSTRUMENTATION SITE CH 4017N 09712E

NO INSTRUMENTATION FACILITIES OBSERVED WITHIN  
25-NM RADIUS.

25X1D

[Redacted]

25X1A

[Redacted] MOSCOW, SUSPECT AMM PHASED ARRAY RADAR UR 5529N 03641E

25X1D

CONSTRUCTION CONTINUES ON THE INVERTED V FRAME. THE CONSTRUCTION CRANE IS NOW POSITIONED IN FRONT AND AT THE BASE OF THE NNW FACE. CONSTRUCTION MATERIALS ARE STACKED IN OPEN STORAGE IN CLEARED AREAS FRONTING THE NNW AND SSE FACES. A LIGHT COLORED TOPPING IS BEING APPLIED IN RECTANGULAR PATCHES TO THE PLATFORM ROOF AT ITS WSW END AND ADDITIONAL BLACK TOPPING IS BEING APPLIED TO THE ROOF OF THE CONTROL BUILDING. A POSSIBLE ENTRANCE WHICH APPEARED AS A FOUNDATION ON MISSION [Redacted] IS BEING ADDED AT THE WSW END AND ON THE NORTH SIDE OF THE CONTROL BUILDING. IT IS NOW CONSTRUCTED TO ROOF HEIGHT. AN ADDITIONAL RECTANGULAR SUPPORT BUILDING HAS BEEN ADDED IN THE STORAGE YARD.

THE SUSPECT AMM PHASED ARRAY APPARENTLY WILL HAVE AN INDENTED FACE ON ITS NNW SIDE AND PROBABLY THE SSE SIDE. ADDITIONAL FRAMING MEMBERS HAVE BEEN ADDED AT BOTH ENDS OF THE ARRAY AND ACROSS THE TOP MAKING THE FACE OF THE ARRAY INSET. THE SSE FACE OF THE ANTENNA WILL APPARENTLY BE IDENTICAL TO THE NNW.

NO SIGNIFICANT CHANGES ARE OBSERVED IN THE SUPPORT AREAS EXCEPT FOR ADDITIONAL BLACK-TOPPING ON THE ROOFS OF SOME BUILDINGS IN OPERATIONAL AREA B.

25X1D

[Redacted]

BONUS 1. TA-TUNG VLF ANTENNA CH 3957N 11316E

A NEWLY IDENTIFIED LARGE RECTANGULAR VLF ANTENNA IS

[Redacted]

[Redacted]

25X1

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[Redacted]

[Redacted]

LOCATED 8 NM SOUTH OF TA-TUNG.

25X1D

THE ANTENNA IS NEARLY IDENTICAL TO THE VLF ANTENNA WEST OF KHABAROVSK. IT APPEARS COMPLETE AND IS PROBABLY OPERATIONAL. THIS INSTALLATION WAS REPORTED ON MISSION [Redacted] AS YAO-CHUANG AREA, UNIDENTIFIED INSTALLATION.

25X1D

(ATTACHMENT 4)

[Redacted]

25X1

[Redacted]

[Redacted]

25X1

**Military  
Activity**

25X1

[Redacted]

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TOP SECRET

[Redacted]

25X1

[Redacted]

25X1A

MILITARY ACTIVITY

[Redacted]

MAN-CHOU-LI MILITARY ACTIVITY CH 4935N 11726E

NO CHANGE OBSERVED IN AREA 3 OR IN CLOUD-FREE PORTIONS OF AREAS 1 AND 2. NO SIGNIFICANT NEW ACTIVITY NOTED IN POSSIBLE BARRACKS CONSTRUCTION AREA ON SOVIET SIDE OF THE BORDER.

25X1D

[Redacted]

25X1

[Redacted]

[Redacted]

25X1

**Other  
Activity**



25X1

TOP SECRET

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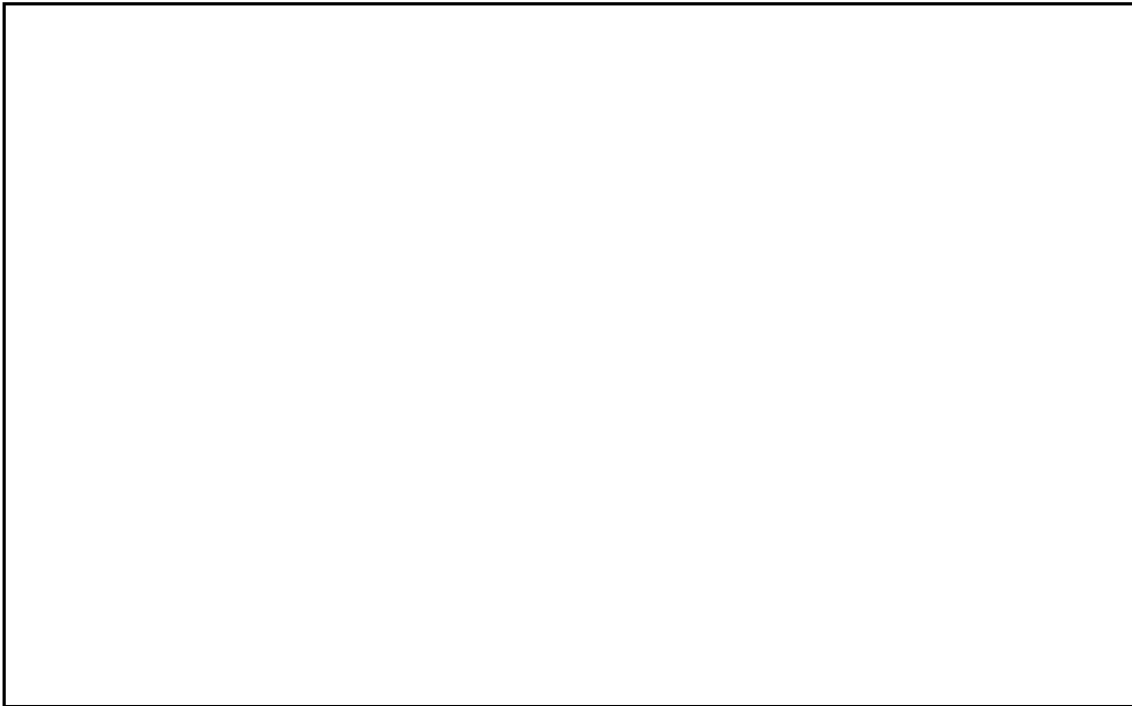
OTHER ACTIVITY

25X1A

 HSIAG-CHIA-CHI NATL DEF LINE CONSTR CH 4713N 13343E

ONLY EASTERN PORTION OF SEARCH AREA COVERED.  
NO MILITARY ACTIVITY NOTED IN CLOUD-FREE AREAS.

25X1D



25X1D

25X1



25X1

TOP SECRET

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INDEX OF COMOR TARGETS

THIS SECTION CONTAINS A COMPOSITE LIST, BY TARGET NUMBER, OF ALL COMOR TARGETS REVIEWED DURING THE SCAN OF MISSION 1007-1. THE ROMAN NUMERAL UNDER THE OAK COLUMN INDICATES THE PART OF OAK 1007-1 IN WHICH THE TARGET WAS REPORTED.

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<u>COMOR</u>	<u>INSTALLATION NAME</u>	<u>CTY COORDINATES</u>	<u>OAK</u>
	YURYA ICBM COMPLEX	UR 5903N 04919E	I
	TYURATAM MISSILE TEST CENTER	UR 4550N 06318E	I
	YOSHKAR-OLA ICBM COMPLEX	UR 5634N 04803E	II
	SVOBODNYI ICBM COMPLEX	UR 5146N 12807E	I
	DROVYANAYA ICBM COMPLEX	UR 5132N 11301E	II
	KOSTROMA ICBM COMPLEX	UR 5746N 04101E	II
	SHADRINSK ICBM COMPLEX	UR 5608N 06340E	I
	TEYKOVO ICBM COMPLEX	UR 5652N 04035E	II
	TYUMEN ICBM COMPLEX	UR 5652N 06553E	I
	YEDROVO ICBM COMPLEX	UR 5751N 03341E	II
	NOVOSIBIRSK ICBM COMPLEX	UR 5516N 08257E	I
	KOZELSK ICBM COMPLEX	UR 5357N 03548E	II
	OLOVYANNAYA ICBM COMPLEX	UR 5048N 11550E	II
	MAZANKA MRBM LAUNCH SITE	UR 4454N 03420E	I
	SLEDYUKI MRBM LAUNCH SITE	UR 5341N 03020E	II
	BORKHOV MRBM LAUNCH SITE I	UR 5218N 03043E	II
	GRESK MRBM LAUNCH SITE 1	UR 5314N 02742E	I
	KARA-BABAU IRBM LAUNCH SITE 2	UR 4431N 07758E	II
	ZHITOMIR MRBM LAUNCH SITE 1	UR 5004N 02816E	II
	KOZHANOVICHI MRBM LAUNCH SITE 1	UR 5210N 02751E	II
	URECHYE MRBM LAUNCH SITE	UR 5311N 02758E	I
	KURDZHIPS KAYA MRBM LAUNCH SITE	UR 4431N 04000E	II
	SMORGON IRBM LAUNCH SITE 2	UR 5426N 02618E	I
	RUDNYA ZLOTINSKAYA MRBM LAUNCH SITE	UR 5104N 02807E	II
	SOKAL MRBM LAUNCH SITE 3	UR 5020N 02426E	II
	REDKINO MRBM LAUNCH SITE	UR 5724N 02826E	II
	SHIRVANSKAYA MRBM LAUNCH SITE	UR 4425N 03954E	II
	SEMENOVKA IRBM LAUNCH SITE 2	UR 4753N 03057E	I
	VAINODE IRBM LAUNCH SITE	UR 5628N 02150E	I
	KARA-BABAU IRBM LAUNCH SITE 3	UR 4431N 07743E	II
	ACHKHOY-MARTAN MRBM LAUNCH SITE	UR 4310N 04511E	I
	POSTAVY MRBM LAUNCH SITE 2	UR 5506N 02700E	I
	SOVETSKAYA GAVAN POSS MRBM LAUNCH SITE	UR 4904N 14007E	I
	KAPUSTIN YAR/VLADIMIROVKA MSL TEST CTR	UR 4835N 04545E	II
	SARY-SHAGAN ANTIMISSILE TEST CENTER	UR 4602N 07334E	II

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SHUANG-CHENG-TZU MISSILE TEST CENTER	CH 4107N 10020E	I
SHUANG-CHENG-TZU 350 NM IMPACT AREA	CH 4024N 09225E	I
SHUANG-CHENG-TZU 650 NM IMPACT AREA	CH 4041N 08600E	I
MOSCOW GUIDED MSL ENGINE PLT KHIMKI 456	UR 5554N 03727E	II
MOSCOW GM PLT & EXPMT STA KALININGRAD 88	UR 5555N 03748E	II
ZAGORSK ROCKET TEST FACILITY	UR 5627N 03812E	I
KURUMOCH ROCKET ENGINE TEST FACILITY	UR 5331N 04949E	I
KUYBYSHEV AIRFRAME PLANT STALIN 1	UR 5313N 05018E	I
VORONEZH ROCKET TEST FACILITY	UR 5134N 03908E	I
KAZAN AIRCRAFT ENGINE PLANT 16	UR 5551N 04907E	I
RYBINSK AIRCRAFT ENGINE PLANT 36	UR 5803N 03849E	II
TBILISI AIRFRAME PLANT 31	UR 4140N 04452E	II
HSI-AN AIRFRAME PLANT YEN-LIANG AF	CH 3439N 10915E	II
KUYBYSHEV AIRCRAFT ENGINE PLT FRUNZE 24	UR 5312N 05017E	II
KAMENSK-SHAKHTINSKIY PROB STAT TEST FAC	UR 4819N 04016E	II
KOSZALIN SUSPECT SAM AREA	PO 5410N 01618E	I
DOPIEWO SUSPECT SAM AREA	PO 5220N 01640E	I
BIEDRUSKO SUSPECT SAM AREA	PO 5233N 01657E	I
MAKINSK SUSPECT SSM AREA	UR 5234N 07026E	II
VORONEZH SUSPECT SSM AREA	UR 5139N 03911E	II
KRASNAYA GORBATKA SUSPECT SSM AREA	UR 5553N 04146E	II
ZAKOPYTE SUSPECT SSM AREA	UR 5138N 03020E	II
NOVOSTROYKA SUSPECT SSM AREA	UR 5619N 03803E	II
ROMNY SUSPECT SSM AREA	UR 5044N 03328E	II
ALEYSK SUSPECT SSM AREA	UR 5229N 08247E	II
SEVEROMORSK SUSPECT NAVAL MSL STORAGE	UR 6906N 03328E	I
SAYDA-GUBA SUBMARINE BASE	UR 6915N 03321E	I
OLENYA GUBA SUBMARINE BASE	UR 6913N 03323E	I
POLYARNYY NAVAL BASE	UR 6912N 03328E	I
LITSA GUBA SUBMARINE BASE	UR 6926N 03224E	I
VLADIMIR SUBMARINE BASE	UR 4355N 13528E	II
ROSTA NAVAL BASE & SHIPYARD SEVMORPUT	UR 6902N 03304E	I
VLADIVOSTOK NAVAL BASE AND SHIPYARD 202	UR 4306N 13156E	II
URA GUBA NAVAL BASE	UR 6920N 03249E	I
PALA GUBA NAVAL BASE & SHIP REPAIR YARD	UR 6912N 03326E	I
SOVETSKAYA GAVAN NVL BASE & SHIPYARD 263	UR 4858N 14017E	I
MOSCOW SUSPECT ABM AREA	UR 5545N 03737E	II
ANTIPINSKOYE SAM ACTIVITY	UR 5254N 11332E	I
BRATSK, SUSPECT ABM AREA	UR 5654N 10030E	I
ASTRAKHAN POSSIBLE ABM RADAR	UR 4620N 04801E	I
MOSCOW SAM SITE E05-1	UR 5614N 03835E	II
MOSCOW SAM SITE E33-1	UR 5620N 03648E	II
MOSCOW SAM SITE E24-1	UR 5521N 03629E	I
MOSCOW SAM SITE E15-1	UR 5509N 03822E	II
DOLON AIRFIELD	UR 5032N 07912E	I
SIAULIAI AIRFIELD	UR 5553N 02323E	I

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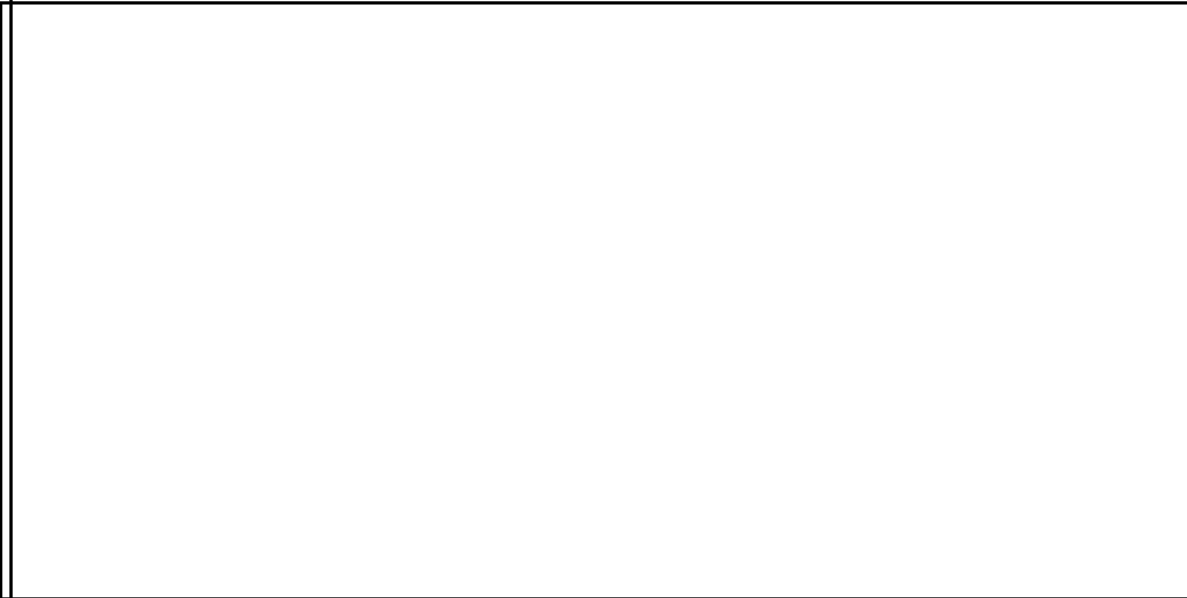
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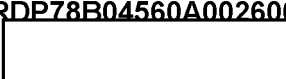
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UKRAINA AIRFIELD	UR	5110N	12826E	I
BORZYA AIRFIELD NORTHWEST	UR	5024N	11623E	I
BARANOVICHI AIRFIELD	UR	5306N	02603E	I
MINSK/MACHULISHCHE AIRFIELD	UR	5347N	02734E	I
OLENEGORSK AIRFIELD	UR	6809N	03327E	I
BYKHOV AIRFIELD	UR	5331N	03012E	I
MOZDOK AIRFIELD	UR	4347N	04436E	I
PRILUKI AIRFIELD	UR	5034N	03219E	I
ORSHA AIRFIELD SOUTHWEST	UR	5426N	03018E	I
RYAZAN/DYAGILEVO AIRFIELD	UR	5439N	03935E	I
NEZHIN AIRFIELD	UR	5105N	03152E	I
GOMEL/PRIBYTKI AIRFIELD	UR	5218N	03110E	I
ALEKSEYEVKA AIRFIELD	UR	4915N	14014E	I
MIRGOROD AIRFIELD	UR	4956N	03339E	II
USSURIYSK/VOZDVIZHENKA AIRFIELD	UR	4355N	13156E	I
KALININ AIRFIELD	UR	5649N	03545E	I
SOLTSY AIRFIELD	UR	5808N	03020E	I
ARTEM AIRFIELD NORTH	UR	4323N	13209E	I
OSTROV/GOROKHOVKA AIRFIELD	UR	5718N	02826E	II
KAZAN AIRFRAME PLANT GORBUNOV 22	UR	5552N	04907E	I
RAMENSKOYE AIRCRAFT EXPERIMENTAL PLANT	UR	5535N	03807E	I
KUYBYSHEV AIRFRAME PLANT LENIN 18	UR	5313N	05019E	I
WU-KUNG AIRFIELD	CH	3417N	10815E	II

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PECHENGA NAVAL BASE LINAKHAMARI	UR	6939N	03122E	I
LAKE ISSYK KUL HYDRODYNAMICS EXP STA N	UR	4235N	07700E	I
NIKOLAYEV SHIPYARD NOSENKO 444	UR	4657N	03159E	II
NIKOLAYEV SHPYD NORTHERN 61 KOMMUNA 445	UR	4659N	03201E	II



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YU-MEN, SUSPECT INSTRUMENTATION SITE	CH 4017N 09712E II
SIMFEROPOL TRACKING & COMMO CENTER	UR 4503N 03353E I
MOSCOW, SUSPECT AMM PHASED ARRAY RADAR	UR 5529N 03641E II
MI-SHAN MILITARY AREA	CH 4532N 13152E I
MAN-CHOU-LI MILITARY ACTIVITY	CH 4935N 11726E II
HSI-AN COMPLEX	CH 3417N 10857E I

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## **Attachments**

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ATTACHMENT 1



MOSCOW GUIDED MISSILE ENGINE PLANT KHIKMI 456, USSR.

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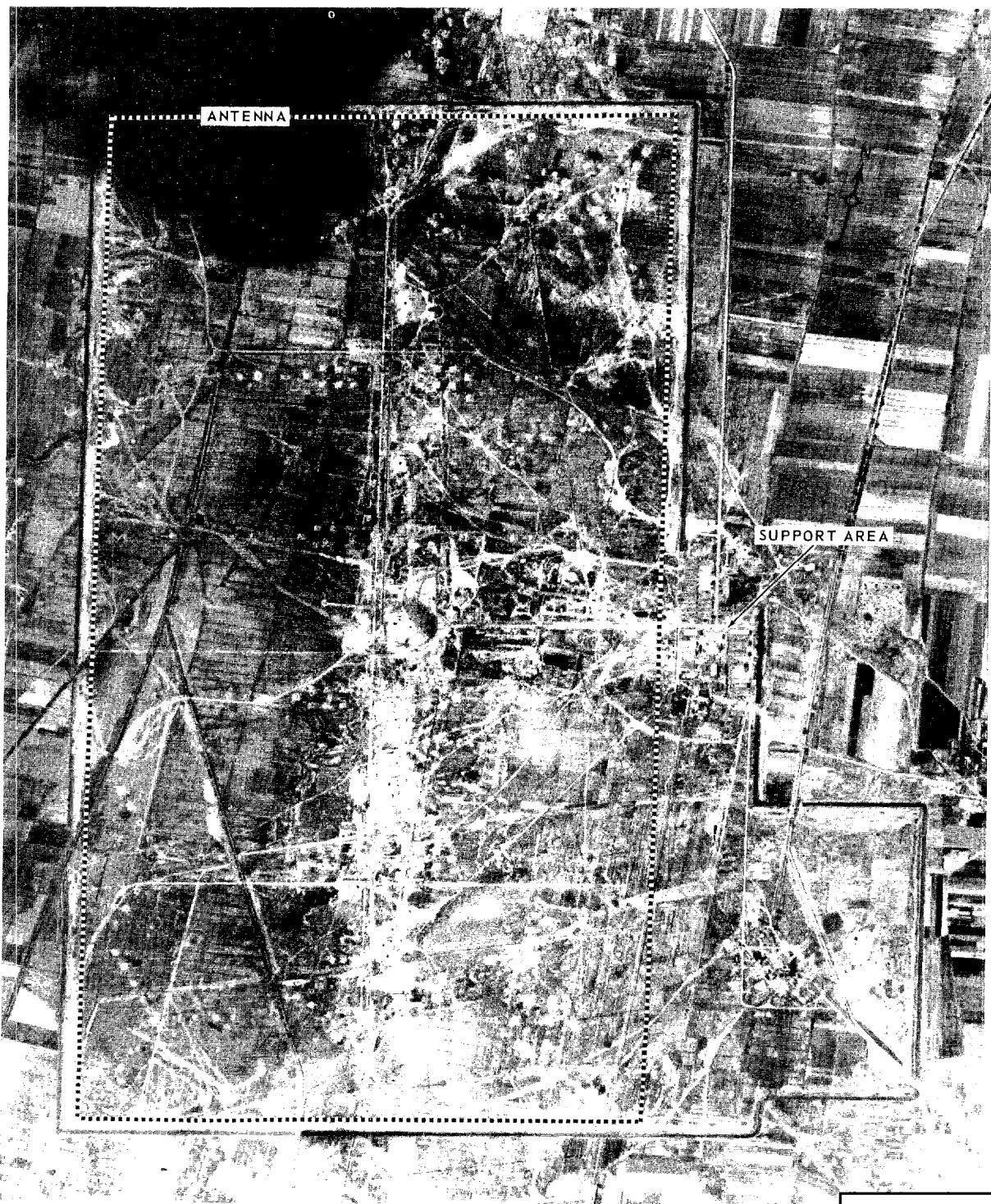


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VLF COMMUNICATIONS ANTENNA, TA-TUNG AREA, CHINA.

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