



NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

OAK

PHOTOGRAPHIC INTERPRETATION REPORT

KH-4 MISSION IIII

IPIR NUMBER 2

MISSION IIII-I OAK PART II

23-29 JULY 1970

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TARGET CATEGORIES
AND
ASSOCIATED NTP FUNCTIONAL AREAS (CODES)

1. STRATEGIC SSM
Deployed Strategic SSM Facilities (A)
2. MISSILE RANGES
Missile Ranges: Strategic SSM/Space Facilities (P)
Missile Ranges: Air-Launched Missile Facilities (Q)
Missile Ranges: Naval-Launched Missile Facilities (R)
Missile Ranges: Tactical SSM Facilities (S)
Missile Ranges: SAM/AMM Facilities (T)
3. AIR DEFENSE MISSILES
Deployed AMM Facilities (B)
Deployed SAM Facilities (D)
4. ELECTRONICS/COMMUNICATIONS
Deployed Communication/Electronic/Radar Facilities (C)
5. AIR
Air Base Facilities (E)
6. NAVAL
Naval Base Facilities (F)
7. GROUND
Ground Force Facilities (G)
8. TACTICAL SSM
Deployed Tactical SSM Facilities (H)
9. LOGISTICS
Military Logistics Facilities (K)
10. NUCLEAR ENERGY
Atomic Energy Facilities (O)
11. CBR
CBR Facilities (V)
12. INDUSTRY
Strategic Weapons Industrial Facilities (J)
General Purpose Weapons Industrial Facilities (L)
Non-Military Industrial Facilities (N)
Communication/Electronic/Radar R&D Facilities (U)
13. MISCELLANEOUS
Non-Military Logistics Facilities (M)
Miscellaneous/Unidentified Facilities (Z)

These thirteen target categories are compatible with the Functional Area of Imagery Interpretation established under the National Tasking Plan. To enhance the analysis of readout on operationally associated targets, each target is reported relative to its primary functional association (i.e., missile range tracking facilities are reported under "MISSILE RANGES," fly-away airfields at aircraft plants are reported under "INDUSTRY," airfield nuclear weapons storage facilities are reported under "AIR," etc.).

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PREFACE

PREFACE

THIS IS THE SECOND OAK REPORT ON MISSION 1111-1. FOR COMPLETE
PREFACE SEE OAK PART 1, 1111-1.

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HIGHLIGHTS

MISSION HIGHLIGHTS

USSR

MISSILE ACTIVITY

1. EIGHTEEN OF THE 24 ICBM COMPLEXES AND THE TYURATAM MISSILE TEST CENTER WERE AT LEAST PARTIALLY OBSERVED. THESE INCLUDED THE SIX SS-9 COMPLEXES, THE FIVE ACTIVE SS-11 COMPLEXES, AND THE SS-13 COMPLEX AT YOSHKAR-OLA, AS WELL AS SHADRINSK, TYUMEN, VERKHNYAYA SALDA, YURYA, AND TATISHCHEVO. TATISHCHEVO WAS IDENTIFIED ONLY.

2. POSSIBLE SS-11 LAUNCH GROUP R (CONSISTING OF ONE POSSIBLE LAUNCH SITE DESIGNATED 115R IN AN EARLY STAGE OF CONSTRUCTION) WAS NEWLY IDENTIFIED AT THE KOSTROMA ICBM COMPLEX. THERE WAS NO EVIDENCE OF THE POSSIBLE GROUP ON [REDACTED]

25X1D

25X1D

3. COVERAGE OF THE SS-9 COMPLEXES WAS AS FOLLOWS. IMENI GASTELLO WAS CLEAR, WHILE ALEYSK, DOMBAROVSKIY, KARTALY, UZHUR, AND ZHANGIZ TOBE WERE PARTIALLY OBSCURED BY SCATTERED CLOUDS. NO NEW SS-9 LAUNCH GROUPS WERE IDENTIFIED. AT THE DOMBAROVSKIY ICBM COMPLEX, SITES 69, 70, AND 71, ALL IN AN EARLY STAGE OF CONSTRUCTION, WERE IDENTIFIED IN THE K GROUP. AT THE IMENI GASTELLO ICBM COMPLEX, SITE 55 (THE SIXTH SITE IN THE I GROUP) WAS NEWLY IDENTIFIED IN AN EARLY STAGE OF CONSTRUCTION. AT THE UZHUR ICBM COMPLEX, TWO NEW SITES, 60 AND 61, BOTH IN AN EARLY STAGE OF CONSTRUCTION, FILL OUT THE J GROUP.

4. THREE SS-11 LAUNCH SITES WERE NEWLY IDENTIFIED IN EXISTING LAUNCH GROUPS. AT THE YEDROVO ICBM COMPLEX, COMPLETED LAUNCH SITE 135R WAS NEWLY IDENTIFIED AS THE TENTH SITE IN THE R GROUP. SITE 116R HAS BEEN DROPPED AS A VALID SITE. LAUNCH SITES 136 AND 137, BOTH IN A LATE STAGE OF CONSTRUCTION, WERE NEWLY IDENTIFIED IN THE T GROUP.

5. AT THE TYURATAM MISSILE TEST CENTER, A POSSIBLE MISSILE WAS AT LAUNCH PAD C3. THE GANTRY AT PAD G3 HAD BEEN MOVED TO A POSITION JUST TO THE REAR OF THE PAD, AND A MISSILE LOADING EXERCISE WAS OBSERVED AT LAUNCH SITE L7.

6. ELEVEN OF THE 19 PRIORITY MRBM/IRBM COMPLEX SEARCH AREAS WERE AT LEAST PARTIALLY OBSERVED. AT THE DERAZHNYA MRBM COMPLEX, NEW ACTIVITY [REDACTED] MAY REPRESENT THE START OF A NEW SS-11 LAUNCH SITE. IF CONFIRMED, THIS SITE WOULD INDICATE THE START OF A NEW LAUNCH GROUP. IN ADDITION,

25X1D

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HIGHLIGHTS

EIGHT TYPE IIID SITES WERE NEWLY IDENTIFIED IN EXISTING LAUNCH GROUPS, AND POSSIBLE LAUNCH SITES 5D, 36D, AND 41E WERE CONFIRMED. SITES 56, 57, AND 58, ALL IN A MIDSTAGE OF CONSTRUCTION, ARE IN LAUNCH GROUP D. SITES 59 IN A MIDSTAGE AND 60 IN A LATE STAGE OF CONSTRUCTION ARE IN LAUNCH GROUP E. SITES 61, 62, AND 63, ALL IN THE MIDSTAGE OF CONSTRUCTION, ARE IN LAUNCH GROUP F. ALL SIX GROUPS AT THIS COMPLEX NOW HAVE THEIR FULL COMPLEMENT OF TEN LAUNCH SITES.

NUCLEAR ACTIVITY

25X1A

7. LOCATION 10, SEMIPALATINSK NWP6 KONYSTAN TEST AREA [REDACTED] WAS IDENTIFIED AS THE SITE OF THE 21 JULY 1970 UNDERGROUND NUCLEAR TEST. ACTIVITY CONTINUED AT THREE OTHER PROBABLE TEST LOCATIONS AND AT OTHER POINTS IN THE AREA.

25X1A

CHINA

MISSILE ACTIVITY

8. AT THE WU-CHAI SSM LAUNCH SITE, FOUR UNIDENTIFIED VEHICLES WERE IN THE PAD AREA, AND ROADS IN THE LAUNCH AREA WERE BEING SURFACED.

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CHINA, COMMUNIST
MISSILE RANGES

SIGNIFICANT RESULTS

25X1D

WU-CHAI SSM LAUNCH SITE 25X1A

25X1D

STATUS: OPERATIONAL

25X1A

REMARKS:

SEVEN VEHICLES OR PIECES OF EQUIPMENT WERE AT THE LAUNCH SITE, FOUR AT THE EDGE OF THE LAUNCH PAD, TWO IN THE GROUND SUPPORT EQUIPMENT AREA SOUTH, AND ONE IN THE GROUND SUPPORT EQUIPMENT AREA NORTH. THE ROADS WITHIN THE LAUNCH SITE AND MOST OF THE ACCESS ROAD FROM THE MAIN SUPPORT BASE HAD BEEN SURFACED WITH A DARK MATERIAL.

25X1D

25X1D

WU-CHAI SSM SUPPORT AREAS NO 3-7

25X1D

STATUS: UNDER CONSTRUCTION

25X1A

25X1A

REMARKS:

NINE NEW BUILDINGS HAD BEEN CONSTRUCTED IN SUPPORT AREA 6, AND A RAIL SPUR TO THIS AREA WAS UNDER CONSTRUCTION. THE RAIL SPUR CONTINUED FOR APPROXIMATELY 1 NM UP THE VALLEY SE OF SUPPORT AREA 6. ALONG THIS VALLEY A NEW ROAD AND SEVERAL BUILDINGS HAD BEEN CONSTRUCTED. NO SIGNIFICANT CHANGES WERE APPARENT IN SUPPORT AREAS 3, 4, 5, OR 7.

25X1D

OTHER RESULTS-NO APPARENT CHANGE

25X1D

WU-CHAI SSM SUPPORT AREAS NO 1 + 2

25X1D

STATUS: UNDER CONSTRUCTION

25X1A

25X1A

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25X1D

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UNITED ARAB REPUBLIC
AIR DEFENSE MISSILES

SIGNIFICANT RESULTS

25X1D AL ISKANDARIYAH SAM SITE A10-2 25X1D
[REDACTED] NAC [REDACTED]
STATUS: OCCUPIED 25X1A

25X1D [REDACTED]

25X1D AL ISKANDARIYAH SAM SITE A16-2 25X1D
[REDACTED] [REDACTED] [REDACTED]
STATUS: OCCUPIED 25X1A 25X1A

REMARKS:
TWO OF THE LAUNCH POSITIONS WERE OCCUPIED.

25X1D [REDACTED]

25X1D AL ISKANDARIYAH SAM SITE A18-2 25X1D
[REDACTED] NAC [REDACTED]
STATUS: OCCUPIED 25X1A

25X1D [REDACTED]

25X1D AL ISKANDARIYAH SAM SITE A22A-2 25X1D
[REDACTED] NAC [REDACTED]
STATUS: OCCUPIED 25X1A

25X1D [REDACTED]

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25X1D

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UNITED ARAB REPUBLIC
AIR DEFENSE MISSILES

AL QAHIRAH SAM SITE B01-2

25X1A

25X1D

25X1D

STATUS: OCCUPIED

25X1A

REMARKS:

A NEW SITE HAD BEEN CONSTRUCTED INTERLOCKING WITH THE EXISTING SITE. THE NEW SITE CONSISTS OF SIX REVETTED LAUNCH POSITIONS, A BUNKERED GUIDANCE AREA, AND A BUNKERED ACQUISITION RADAR POSITION. ONLY FOUR LAUNCH POSITIONS OF THE ORIGINAL SITE REMAINED. TWO NEW MISSILE-HOLD POSITIONS HAD BEEN CONSTRUCTED.

25X1D

25X1A

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25X1

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SOVIET UNION
DEPLOYED STRATEGIC SSM FACILITIES

SIGNIFICANT RESULTS

25X1D

AKTYUBINSK IRBM COMPLEX 25X1A

25X1D

STATUS: OPERATIONAL

25X1A

REMARKS:

THE LAUNCH SITE, RAIL-TO-ROAD TRANSFER POINT, HF COMMUNICATIONS FACILITY, AND SEPARATE PROPELLANT AREA WERE VISIBLE. AT LEAST TEN VEHICLES OR PIECES OF EQUIPMENT WERE AT THE RAIL-TO-ROAD TRANSFER POINT. NO SILO CONSTRUCTION WAS OBSERVED.

25X1D



25X1D

25X1D

ALEYSK ICBM COMPLEX

25X1A

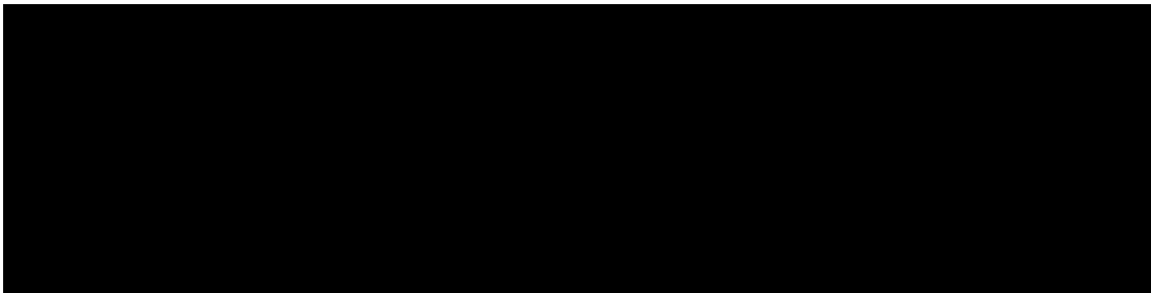
STATUS: OPERATIONAL

25X1A

REMARKS:

ALL KNOWN COMPONENTS OF THE COMPLEX WERE OBSERVED. NO NEW MISSILE ACTIVITY WAS OBSERVED.

25X1D



25X1D

25X1D

BORSHCHEV MRBM COMPLEX
NAC

STATUS: OPERATIONAL

25X1A

REMARKS:

ALL COMPONENTS OF THE COMPLEX WERE VISIBLE. ERECTORS WERE ON THE LAUNCH PADS AT LAUNCH SITES 1 AND 2. PROBABLE MISSILES ON

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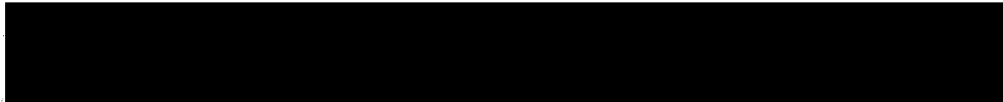
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SOVIET UNION
DEPLOYED STRATEGIC SSM FACILITIES

TRANSPORTERS WERE ON THREE PADS AT LAUNCH SITE 1. SUPPORT VEHICLES WERE ON ALL FOUR PADS AT LAUNCH SITE 2. NO SILO CONSTRUCTION WAS OBSERVED.

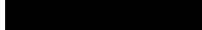
25X1D



25X1D

DERAZHNYA MRBM COMPLEX 25X1A

25X1D



25X1A

STATUS: OPERATIONAL

REMARKS:

ALL ELEMENTS OF THE COMPLEX WERE OBSERVED. VEHICLES AND EQUIPMENT WERE VISIBLE AT LAUNCH SITES 1, 2, AND 3. EIGHT TYPE IIID LAUNCH SITES WERE NEWLY IDENTIFIED IN EXISTING LAUNCH GROUPS, AND POSSIBLE LAUNCH SITES 5D, 36D, AND 48F HAVE BEEN UPGRADED TO CONFIRMED LAUNCH SITES. LAUNCH SITE 53E HAS BEEN CONFIRMED AS THE LAUNCH CONTROL SITE FOR LAUNCH GROUP E INSTEAD OF LAUNCH SITE 40E. THERE ARE NOW 60 CONFIRMED TYPE IIID LAUNCH SITES IN SIX GROUPS AT THIS COMPLEX. CONSTRUCTION WAS CONTINUING AT THE RAIL-TO-ROAD TRANSFER POINT. A NUMBER OF NEW BARRACKS AND HOUSING UNITS WERE UNDER CONSTRUCTION AT KHMELNITSKIY MRBM/IRBM DIVISION HEADQUARTERS.

A NEW ROAD AND TWO CLEARINGS, ONE OF WHICH CONTAINS UNIDENTIFIED ACTIVITY, WERE VISIBLE EAST OF MRBM LAUNCH SITE 3 AT 49-24N 27-09E. THE ROAD AND CLEARINGS ARE NEW SINCE

25X1D



25X1D

DATA FOR THE NEW SITES --

LAUNCH SITE	GEOGRAPHIC COORDINATES	CONST STAGE	NOT PRESENT	FIRST SEEN
56D				
57D				
58D				
59E				
60E				
61F				
62F				
63F				

25X1A

25X1D

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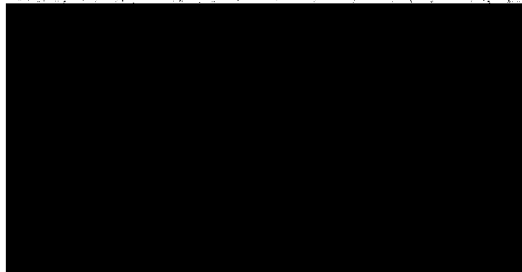
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SOVIET UNION
DEPLOYED STRATEGIC SSM FACILITIES

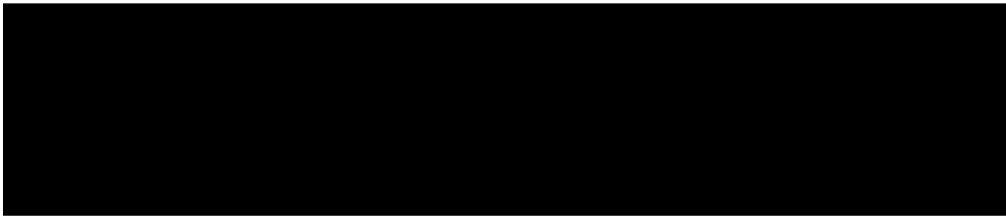
PHOTOGRAPHIC REFERENCES FOR THE NEW SITES --

LS 56D -- 36
LS 57D -- 36
LS 58D -- 36
LS 59E -- 36
LS 60E -- 36
LS 61F -- 36
LS 62F -- 36
LS 63F -- 36



25X1D

25X1D



DOMBAROVSKIY ICBM COMPLEX 25X1A

25X1D

25X1D



25X1A

STATUS: OPERATIONAL

REMARKS:

ALL KNOWN COMPONENTS OF THE COMPLEX WERE OBSERVED, INCLUDING THREE NEWLY IDENTIFIED LAUNCH SITES. THE NEW SITES, 69K, 70K, AND 71K, WERE IN THE EARLY STAGE OF CONSTRUCTION. POSSIBLE LAUNCH SITE 68K HAS BEEN CONFIRMED AND WAS ALSO IN THE EARLY STAGE OF CONSTRUCTION. FIVE SITES HAVE NOW BEEN IDENTIFIED IN THE K GROUP.

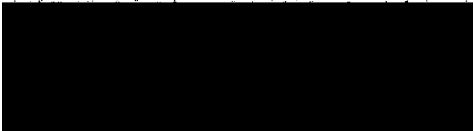
DATA FOR THE NEW SITES --

LAUNCH SITE	GEOGRAPHIC COORDINATES	CONST STAGE	NOT PRESENT	FIRST SEEN
69K				
70K				
71K				

25X1D

PHOTOGRAPHIC REFERENCES FOR THE NEW SITES --

LS 69K -- 82
LS 70K -- 82
LS 71K -- 82



25X1D

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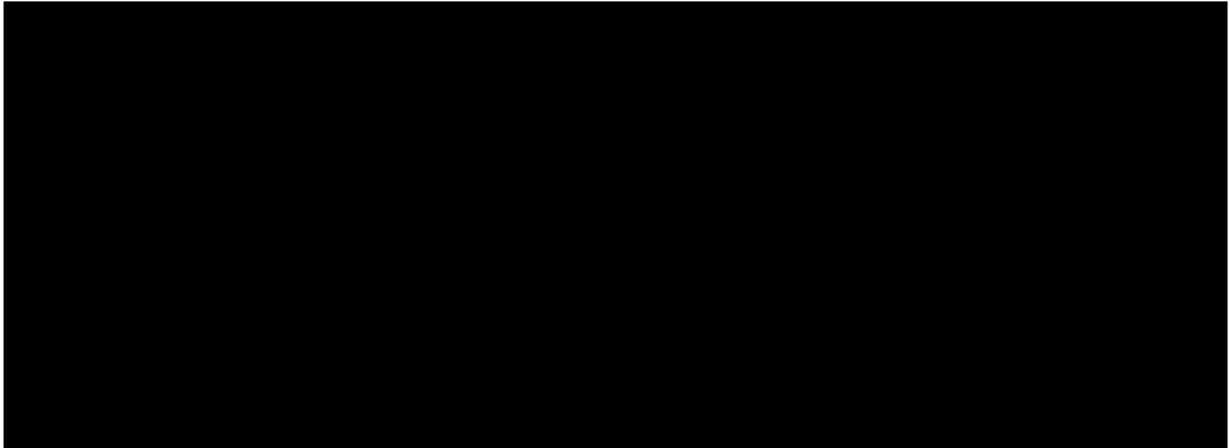
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SOVIET UNION
DEPLOYED STRATEGIC SSM FACILITIES

25X1D



IMENI GASTELLO ICBM COMPLEX

25X1D

25X1D



25X1A

25X1A

STATUS: OPERATIONAL

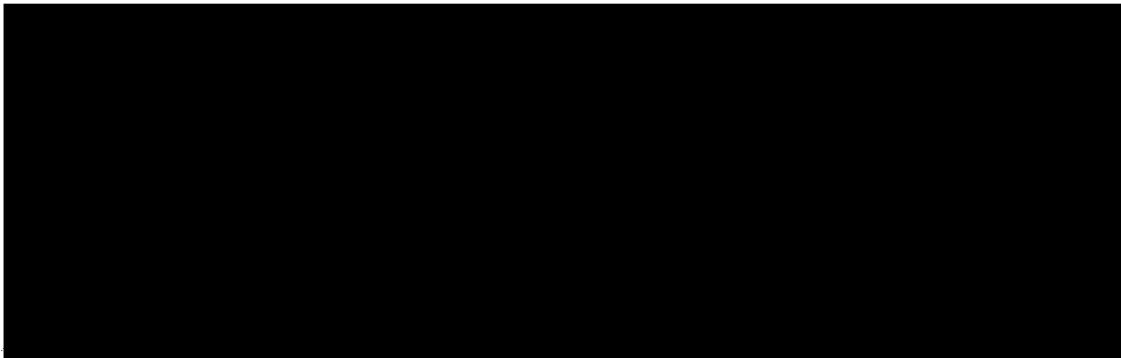
REMARKS:

25X1D

ALL KNOWN COMPONENTS OF THE COMPLEX WERE OBSERVED. THIS TOTAL INCLUDES ONE NEWLY IDENTIFIED SS-9 LAUNCH SITE, 55I, WHICH COMPLETES THE I GROUP. THE SITE WAS IN AN EARLY STAGE OF CONSTRUCTION AT 50-42N 065-47E. IT WAS NOT PRESENT IN [REDACTED] AND WAS FIRST SEEN IN [REDACTED]. LAUNCH SITES 39, 40, 41, 42, AND 43 IN THE G GROUP HAD BEEN COMPLETED, MAKING THE SEVENTH GROUP AT THIS COMPLEX COMPLETE. NO OTHER NEW MISSILE ACTIVITY WAS OBSERVED.

25X1D

25X1D



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SOVIET UNION
DEPLOYED STRATEGIC SSM FACILITIES

25X1D

KAMENETS-PODOLSKIY MRBM COMPLEX

25X1D

STATUS:NOT OPERATIONAL

25X1A

25X1A

REMARKS:

ALL COMPONENTS OF THE COMPLEX WERE OBSERVED. NO MISSILES OR SUPPORTING EQUIPMENT WERE VISIBLE AT EITHER LAUNCH SITE. TYPE IIID LAUNCH SITES OBSERVED IN THE COMPLEX AREA ARE REPORTED IN THE READOUT FOR THE DERAZHNYA MRBM COMPLEX. 25X1A

25X1D

25X1D

25X1D

KOROSTEN MRBM COMPLEX

25X1A

STATUS:UNKNOWN

25X1A

REMARKS:

ONLY FIXED FIELD SITES 1 AND 4 WERE VISIBLE. NO SILO CONSTRUCTION WAS OBSERVED.

25X1D

25X1D

KOSTROMA ICBM COMPLEX

25X1A

25X1D

25X1A

STATUS:OPERATIONAL

REMARKS:

ALL KNOWN COMPONENTS OF THE COMPLEX WERE OBSERVED, INCLUDING ONE NEWLY IDENTIFIED POSSIBLE LAUNCH SITE WHICH IS THE FIRST SITE IN POSSIBLE LAUNCH GROUP R, THE TENTH GROUP AT THIS COMPLEX. POSSIBLE LAUNCH SITE 115R IS IN THE EARLY STAGE OF CONSTRUCTION AT 57-40N 041-48E. THE POSSIBLE SITE WAS NOT PRESENT ON [REDACTED] AND WAS FIRST SEEN ON [REDACTED]

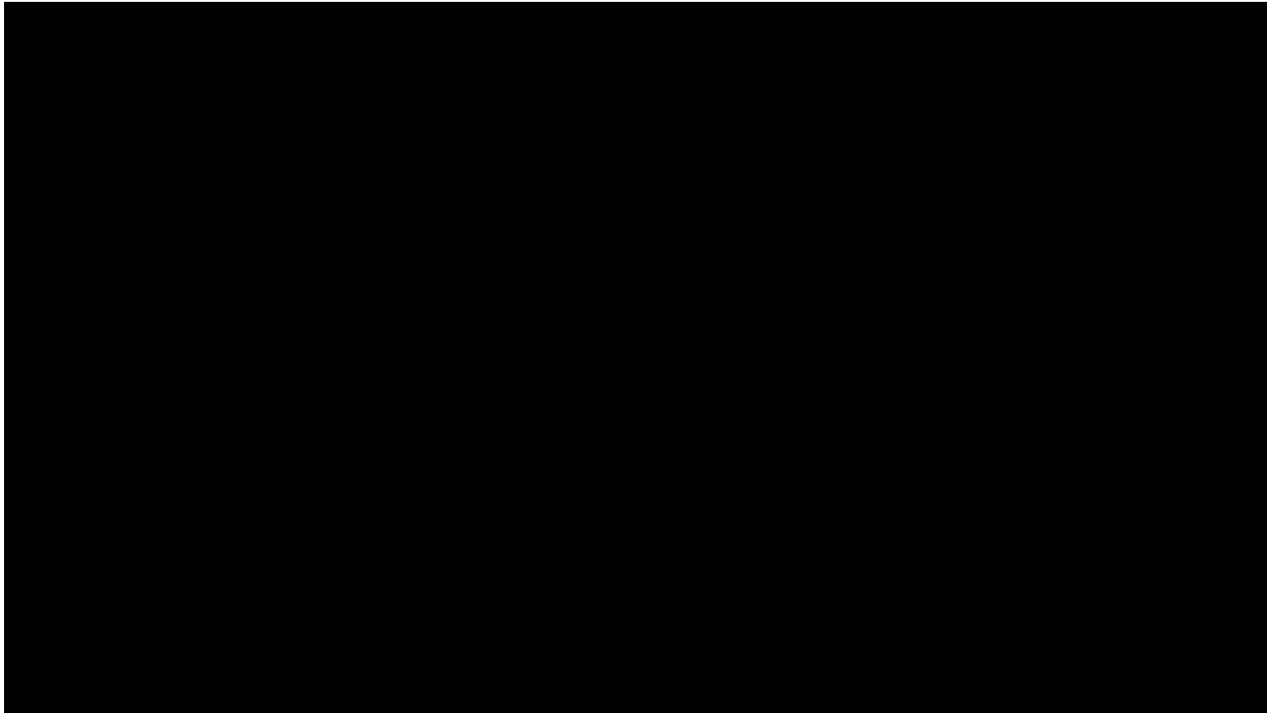
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SOVIET UNION
DEPLOYED STRATEGIC SSM FACILITIES



25X1D

KOZELSK ICBM COMPLEX

25X1A

25X1D

25X1D



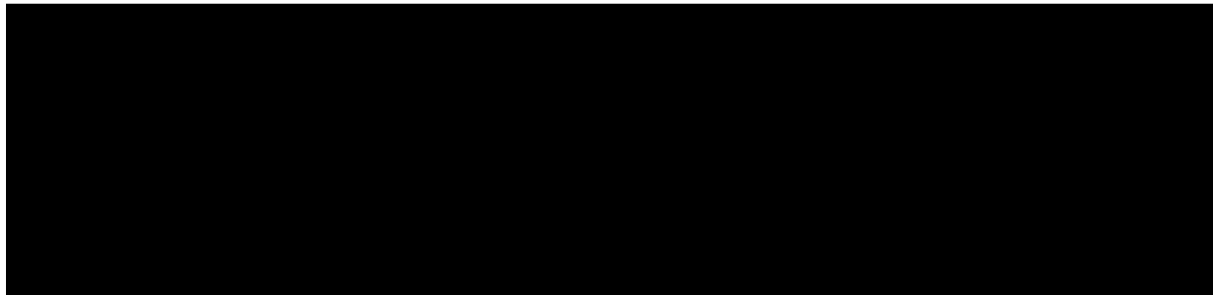
25X1A

STATUS: OPERATIONAL

REMARKS:

APPROXIMATELY 100 OF THE 110 LAUNCH SITES WERE OBSERVED. NO NEW MISSILE ACTIVITY WAS OBSERVED.

25X1D



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SOVIET UNION
DEPLOYED STRATEGIC SSM FACILITIES

25X1D KREMOVO MRBM COMPLEX 25X1A [REDACTED] 25X1D

STATUS: UNKNOWN

REMARKS:
NO ELEMENTS OF THE COMPLEX WERE VISIBLE. NO SILO CONSTRUCTION
WAS OBSERVED IN THE VISIBLE PORTION OF THE SEARCH AREA.

25X1D [REDACTED] 25X1D

25X1D LEBEDIN IRBM COMPLEX NAC [REDACTED] 25X1A

REMARKS:
ONLY LAUNCH SITE 3 WAS VISIBLE. FOUR LAUNCHERS WERE ON THE
PADS. NO SILO CONSTRUCTION WAS OBSERVED.

25X1D [REDACTED] 25X1D

25X1D NOVOSYSOYEVKA IRBM COMPLEX 25X1A [REDACTED] 25X1A

STATUS: UNKNOWN

REMARKS:
NO COMPONENTS OF THE COMPLEX WERE COVERED. NO SILO
CONSTRUCTION WAS OBSERVED IN THE VISIBLE PORTION OF THE SEARCH
AREA.

25X1D [REDACTED]

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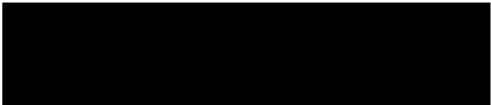
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SOVIET UNION
DEPLOYED STRATEGIC SSM FACILITIES

25X1D

25X1D

OSTROG MRBM COMPLEX
NAC



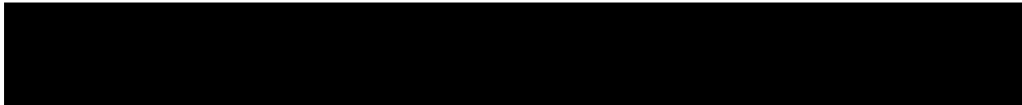
25X1A

STATUS: OPERATIONAL

REMARKS:

ALL COMPONENTS OF COMPLEX WERE OBSERVED. EXERCISES WERE IN PROGRESS ON ONE LAUNCH PAD AT EACH LAUNCH SITE. THE NORMAL COMPLEMENT OF ERECTORS AND OXIDIZER AND FUEL TRANSPORTERS WAS PRESENT AT EACH SITE. NO SILO CONSTRUCTION WAS OBSERVED.

25X1D



25X1D

25X1D

PERM ICBM COMPLEX

25X1A



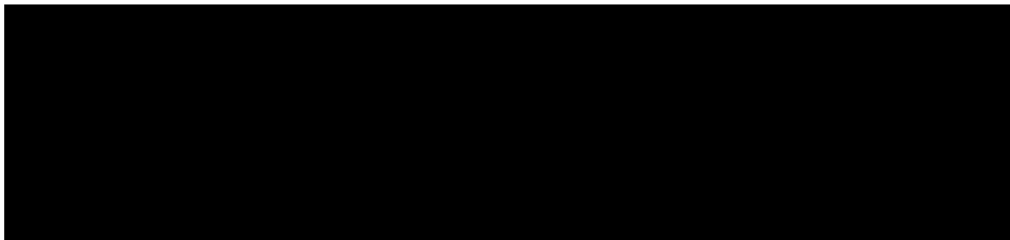
25X1A

STATUS: OPERATIONAL

REMARKS:

ALL KNOWN COMPONENTS OF THE COMPLEX WERE OBSERVED. NO NEW MISSILE-RELATED ACTIVITY WAS OBSERVED IN THE 50-NM SEARCH AREA.

25X1D



25X1D

25X1D

POLOTSK MRBM COMPLEX

25X1A



25X1A

STATUS: UNKNOWN

REMARKS:

NO COMPONENTS OF THE COMPLEX WERE COVERED. NO SILO CONSTRUCTION WAS OBSERVED IN THE VISIBLE PORTION OF THE SEARCH AREA.

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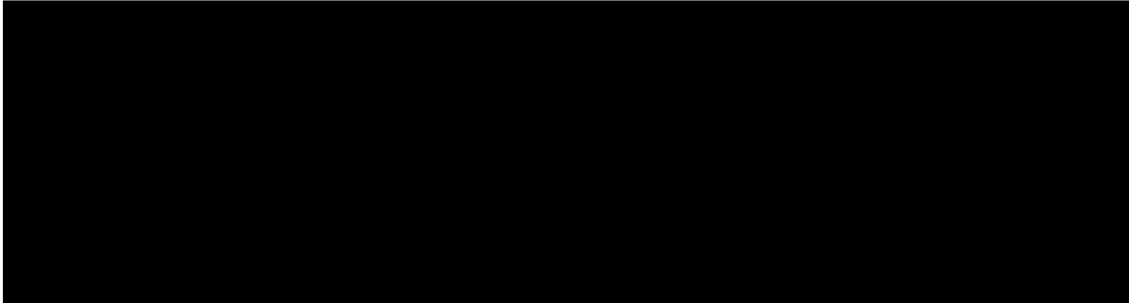
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1111-1

SOVIET UNION
DEPLOYED STRATEGIC SSM FACILITIES

25X1D

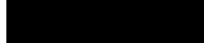
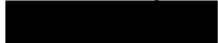


25X1D

25X1D

SHADRINSK ICBM COMPLEX

25X1A



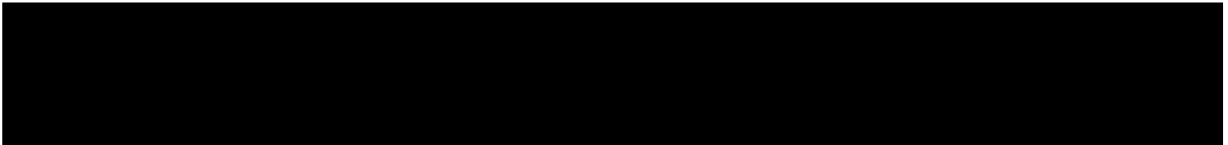
25X1A

STATUS: OPERATIONAL

REMARKS:

ALL KNOWN COMPONENTS OF THE COMPLEX WERE OBSERVED. NO NEW MISSILE ACTIVITY WAS OBSERVED.

25X1D



25X1D

SIMFEROPOL MRBM COMPLEX

25X1A



25X1A

STATUS: UNKNOWN

REMARKS:

NO COMPONENTS OF THE COMPLEX WERE COVERED. NO SILO CONSTRUCTION WAS OBSERVED IN THE VISIBLE PORTION OF THE SEARCH AREA.

25X1D



25X1D

TATISHCHEVO ICBM COMPLEX 25X1A



25X1D

STATUS: OPERATIONAL

25X1A

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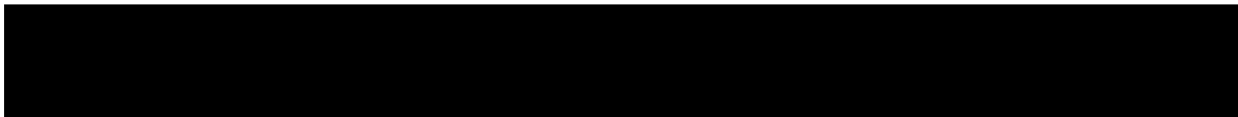
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SOVIET UNION
DEPLOYED STRATEGIC SSM FACILITIES

REMARKS:
APPROXIMATELY 20 OF THE 120 LAUNCH SITES WERE OBSERVED. NO NEW
MISSILE ACTIVITY WAS OBSERVED.

25X1D



25X1D

TEYKOVO ICBM COMPLEX

25X1D



25X1A

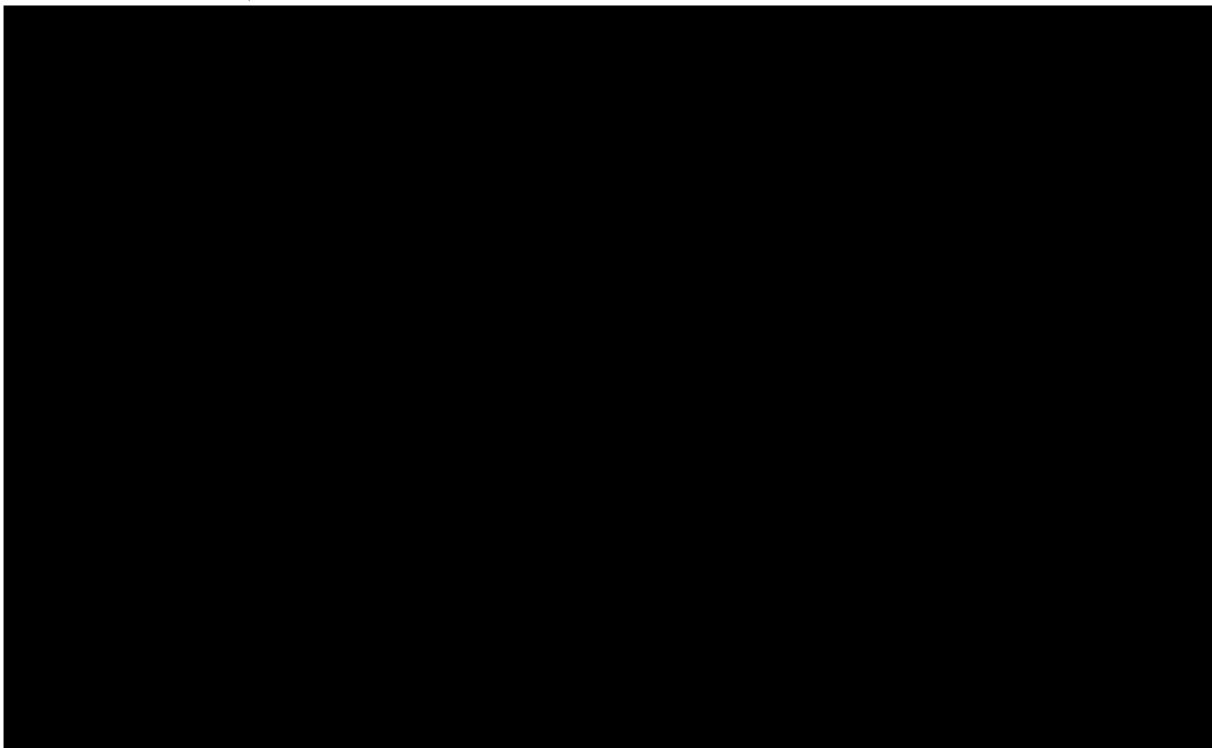


25X1A

STATUS: OPERATIONAL

REMARKS:
MOST OF THE SS-7 AND SS-11 LAUNCH SITES, THE COMPLEX SUPPORT
FACILITY, THE RAIL-TO-ROAD TRANSFER POINT, AND THE HEADQUARTERS
COMMAND AND CONTROL FACILITY WERE OBSERVED. NO NEW MISSILE
ACTIVITY WAS OBSERVED.

25X1D



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SOVIET UNION
DEPLOYED STRATEGIC SSM FACILITIES

25X1D

TYUMEN ICBM COMPLEX

25X1A

25X1D

25X1A

STATUS: OPERATIONAL

REMARKS:

LAUNCH SITE 2 AND THE RAIL-TO-ROAD TRANSFER POINT WERE TOTALLY OBSERVED, AND THE HEADQUARTERS COMMAND AND CONTROL FACILITY AND THE COMPLEX SUPPORT FACILITY WERE PARTIALLY OBSERVED. NO NEW MISSILE ACTIVITY WAS IDENTIFIED.

25X1D

[REDACTED]

25X1D

25X1D

UZHUR ICBM COMPLEX

25X1A

[REDACTED]

25X1A

STATUS: OPERATIONAL

REMARKS:

MOST OF THE KNOWN COMPONENTS OF THE COMPLEX WERE OBSERVED. TWO SS-9 LAUNCH SITES WERE NEWLY IDENTIFIED, 60J AT 55-27N 090-04E AND 61J AT 55-25N 090-10E. BOTH WERE IN AN EARLY STAGE OF CONSTRUCTION. THESE SITES COMPLETE THE J GROUP. THEY WERE NOT PRESENT IN [REDACTED] AND WERE FIRST SEEN IN [REDACTED]. NO OTHER NEW MISSILE ACTIVITY WAS OBSERVED.

25X1D

25X1D

PHOTOGRAPHIC REFERENCES FOR THE NEW SITES --

25X1D

LS 60J -- 97 [REDACTED]
LS 61J -- 97 [REDACTED]

25X1D

[REDACTED]

25X1D

VERKHNYAYA SALDA ICBM COMPLEX

[REDACTED]

25X1D

[REDACTED]

25X1A

[REDACTED]

25X1A

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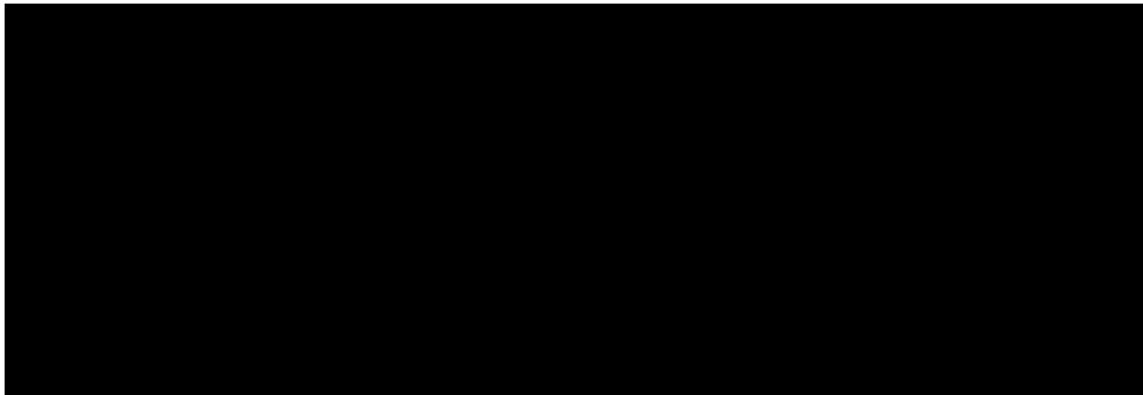
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SOVIET UNION
DEPLOYED STRATEGIC SSM FACILITIES

STATUS: OPERATIONAL

REMARKS:

ALL COMPONENTS OF THE COMPLEX WERE OBSERVED. NO NEW MISSILE
ACTIVITY WAS OBSERVED.



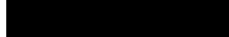
25X1D

YEDROVO ICBM COMPLEX

25X1A

25X1D

25X1D



25X1A

STATUS: OPERATIONAL

REMARKS:

ALL EIGHT SS-7 LAUNCH SITES, 96 OF THE 111 SS-11 LAUNCH SITES,
THE HEADQUARTERS COMMAND AND CONTROL FACILITY, THE COMPLEX
SUPPORT FACILITIES, THE RAIL-TO-ROAD TRANSFER POINT, AND THE
TRAINING SITE WERE OBSERVED. THE TOTAL OF SS-11 SITES INCLUDES
THREE NEWLY IDENTIFIED SITES, 136T, 137T, AND 135R. TO DATE, A
TOTAL OF NINE LAUNCH SITES HAVE BEEN IDENTIFIED IN LAUNCH GROUP
T. LAUNCH SITE 135R COMPLETES GROUP R, WHICH WAS OBSERVED TO
BE COMPLETE. SITE 116R IS NOT A VALID SITE AND HAS BEEN
DROPPED FROM NPIC LISTINGS. LAUNCH SITES 129T, 130T, 132T,
133T, 134T, 136T, AND 137T WERE OBSERVED TO BE IN THE LATE
STAGE OF CONSTRUCTION.

DATA FOR THE NEW SITES --

LAUNCH SITE	GEOGRAPHIC COORDINATES	CONST STAGE	NOT PRESENT	FIRST SEEN	
135R					25X1A
136T					25X1D
137T					

PHOTOGRAPHIC REFERENCES FOR THE NEW SITES --

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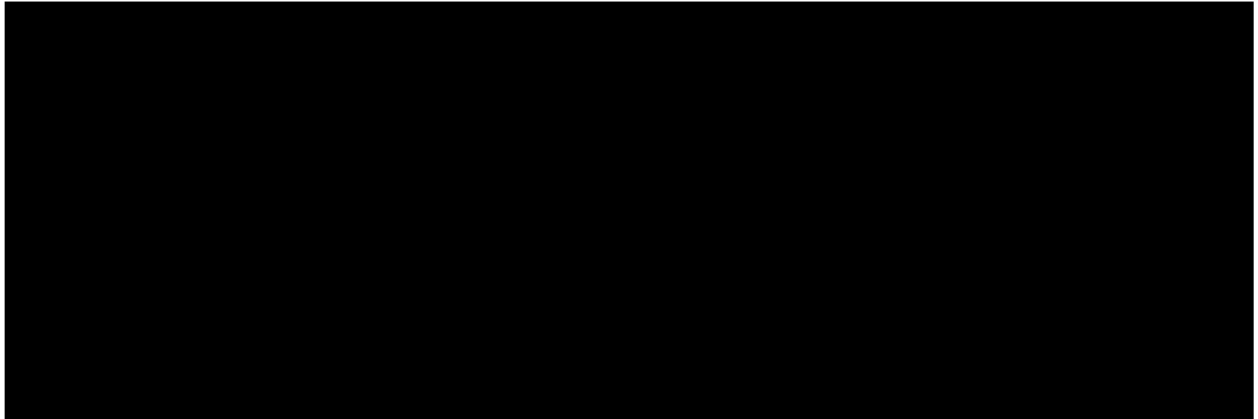
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SOVIET UNION
DEPLOYED STRATEGIC SSM FACILITIES

LS 135R -- 68
LS 136T -- 5
LS 137T -- 5



25X1D

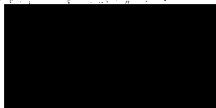


25X1D

YOSHKAR-OLA ICBM COMPLEX

25X1A

25X1D



25X1D

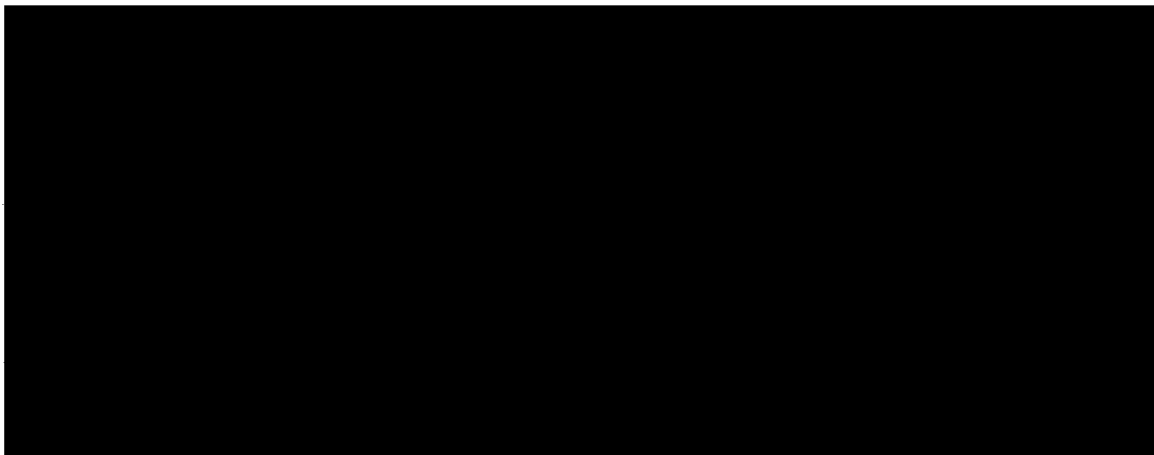


25X1A

STATUS: OPERATIONAL

REMARKS:

APPROXIMATELY 40 OF THE KNOWN 65 SS-13 LAUNCH SITES AND ONE SS-7 LAUNCH SITE WERE AT LEAST PARTIALLY OBSERVED. NO NEW MISSILE ACTIVITY WAS OBSERVED.



25X1D

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SOVIET UNION
DEPLOYED STRATEGIC SSM FACILITIES

YURYA ICBM COMPLEX

25X1A

25X1D

[REDACTED]

25X1D

[REDACTED]

[REDACTED]

25X1A

STATUS: OPERATIONAL

REMARKS:

THREE OF THE SS-7 LAUNCH SITES WERE OBSERVED. NO NEW MISSILE
ACTIVITY WAS OBSERVED.

25X1D

[REDACTED]

25X1D

ZHANGIZ-TOBE ICBM COMPLEX 25X1A

[REDACTED]

25X1D

[REDACTED]

[REDACTED]

25X1A

STATUS: OPERATIONAL

REMARKS:

TWENTY-THREE SS-9 LAUNCH SITES WERE OBSERVED. NO NEW MISSILE
ACTIVITY WAS OBSERVED.

25X1D

[REDACTED]

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TOP SECRET RUFF

TCS-20334/70 - IPIR 2
1111-1

SOVIET UNION
DEPLOYED STRATEGIC SSM FACILITIES

25X1D

ZHITOMIR MRBM COMPLEX
NAC

25X1D

25X1A

STATUS: OPERATIONAL

REMARKS:
ALL ELEMENTS OF THE COMPLEX WERE OBSERVED. LAUNCH SITE 1
REMAINED UNOCCUPIED. ERECTORS AND FUEL AND OXIDIZER
TRANSPORTERS WERE PRESENT AT BOTH LAUNCH SITES 2 AND 3. A
MISSILE ON A TRANSPORTER WAS ALIGNED WITH THE ERECTOR ON THE
EAST-CENTRAL LAUNCH PAD AT LAUNCH SITE 3, AND A MISSILE ON A
TRANSPORTER WAS IN FRONT OF ONE READY BUILDING AT LAUNCH SITE
2. NO SILO CONSTRUCTION WAS OBSERVED.

25X1D

25X1D

ZHMERINKA MRBM COMPLEX
NAC

25X1D

25X1A

STATUS: OPERATIONAL

REMARKS:
LAUNCH SITES 1, 2, AND 3 WERE PARTIALLY OBSERVED, AND FIXED
FIELD SITES 1 AND 2 WERE TOTALLY OBSERVED. PROBABLE ERECTORS
WERE ON THE LAUNCH PADS AT LAUNCH SITES 1 AND 2. EIGHT
OXIDIZERS WERE VISIBLE AT LAUNCH SITE 2. NO SILO CONSTRUCTION
WAS OBSERVED.

25X1D

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AGENT KEYHOLE
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SOVIET UNION
MISSILE RANGES

SIGNIFICANT RESULTS

25X1D

TYURATAM MISSILE TEST CENTER

25X1D

[REDACTED]

25X1A

STATUS: OPERATIONAL

REMARKS:

COMPLETE COVERAGE WAS OBTAINED OF THE TYURATAM MISSILE TEST CENTER EXCEPT FOR LAUNCH COMPLEX B, LAUNCH GROUP I, AND THE SUPPORT FACILITIES ALONG THE MAIN NORTH-SOUTH COMPLEX ROAD, WHICH WERE PARTIALLY COVERED.

AT LAUNCH COMPLEX C, A POSSIBLE MISSILE OR THE LONG LIGHT-TONED UNIDENTIFIED VEHICLE PREVIOUSLY OBSERVED AT COMPLEX C WAS POSITIONED ADJACENT TO THE PAD AT C3. AT LAUNCH COMPLEX G, AN SS-9 AIRFRAME, PROBABLY AN SL-11 LAUNCH VEHICLE, WAS IN A HORIZONTAL POSITION ON LAUNCH PAD G1-B. AT LAUNCH SITE G3-G4, THE GANTRY WAS POSITIONED JUST TO THE REAR OF THE PAD AT G3,

25X1B

[REDACTED]

LAUNCH VEHICLE. AT LAUNCH SITE G5-G6, THE GANTRY WAS FORWARD ON PAD G6. AT LAUNCH COMPLEX J, BOTH TRANSPORTER ERECTORS WERE PARKED IN FRONT OF THE VEHICLE ASSEMBLY BUILDING. IN LAUNCH GROUP L, A MISSILE LOADING EXERCISE WAS OBSERVED AT LAUNCH SITE L7 AND VEHICLE ACTIVITY WAS OBSERVED AT LAUNCH SITES L4 AND L9.

NO OTHER MISSILE ACTIVITY WAS OBSERVED.

25X1D

[REDACTED]

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25X2

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SOVIET UNION
INDUSTRY

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SIGNIFICANT RESULTS

25X1D

RAMENSKOYE FLIGHT TEST CENTER

25X1D

NAC

STATUS: OPERATIONAL

25X1A

REMARKS:

A CANVAS-COVERED AIRCRAFT WAS LOCATED BETWEEN THE TWO TOWERS
USED FOR HOVER AND DROP TESTS IN THE TEST/DERELICT AREA. A
CANVAS-COVERED PROBABLE FISHBED WAS SEEN IN THIS POSITION ON

25X1D

ASSOCIATED OBJECTS:

25X1D

--- TUPOLEV AREA

1 BEAR	1 PROB CRUSTY
1 BLINDER	2 CAMEL
3 FIDDLER	2 COOKPOT
1 CARELESS	1 RAM-A
3 CRUSTY	

25X1D

--- EAST PARKING AREA

2 KAZ-A	1 FIDDLER
2 BLINDER	1 CARELESS
10 BADGER	3 COOKPOT
3 PROB FOXBAT	

25X1D

--- SUKHOY AREA
15 SMALL DELTA/SWEPT

25X1D

--- ADJACENT AREA

2 PROB BEAGLE	1 PROB CAT/CUB
2 COOKER/CAMEL	1 COOT

25X1D

--- MIKOYAN AREA

6 FOXBAT
4 SMALL DELTA/SWEPT (AT
LEAST)

25X1D

--- ADJACENT AREA

3 PROB BEAGLE	1 SMALL STRAIGHT-WING
2 SMALL DELTA/SWEPT	

25X1D

--- YAKOVLEV AREA

3 BREWER/FIREBAR	3 CODLING
3 FIREBAR/FLASHLIGHT	7 SMALL STRAIGHT-WING

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SOVIET UNION
INDUSTRY

25X1D [REDACTED] -- ILYUSHIN AREA
1 BEAR
1 CAMEL
1 CLASSIC
4 COOT

2 PROB MAY
5 SMALL SWEEP-WING
1 HOMER

25X1D [REDACTED] -- CROSSOVER AREA
35 SMALL DELTA/SEPT (AT
LEAST)

3 LIGHT STRAIGHT-WING

25X1D [REDACTED] -- MYASISHCHEV AREA
1 BOUNDER
2 BISON

1 COOT
1 COOT FUSELAGE

25X1D [REDACTED] -- MIL AREA
8 SMALL HELICOPTERS (AT
LEAST)

25X1D [REDACTED] -- TRANSIENT PARKING AREA
2 BREWER/FIREBAR
5 CAMEL
1 CODLING
7 CAT/CUB
3 COOT

1 COKE
1 CRATE
1 CAB
1 MANDRAKE
2 HOOK/HARKE

25X1D [REDACTED]

Attachments

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25X2

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TOP SECRET