

**NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER**

# OAK

## PHOTOGRAPHIC INTERPRETATION REPORT

### **KH-4 MISSION IIII**

### **IPIR NUMBER 3**

### **MISSION IIII-I OAK PART III**

**23-29 JULY 1970**

**Handle via  
Talent-Keyhole  
Channels Only**

**TOP SECRET**

**TCS-20335/70  
AUGUST 1970  
COPY NO 117**

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**OAK-156/70**

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TARGET CATEGORIES  
AND  
ASSOCIATED NTP FUNCTIONAL AREAS (CODES)

- |  |   |
|--|---|
| 1. STRATEGIC SSM<br>Deployed Strategic SSM Facilities (A)  | 7. GROUND<br>Ground Force Facilities (G)  |
| 2. MISSILE RANGES<br>Missile Ranges: Strategic SSM/Space Facilities (P)<br>Missile Ranges: Air-Launched Missile Facilities (Q)<br>Missile Ranges: Naval-Launched Missile Facilities (R)<br>Missile Ranges: Tactical SSM Facilities (S)<br>Missile Ranges: SAM/AMM Facilities (T) | 8. TACTICAL SSM<br>Deployed Tactical SSM Facilities (H)   |
| 3. AIR DEFENSE MISSILES<br>Deployed AMM Facilities (B)<br>Deployed SAM Facilities (D)  | 9. LOGISTICS<br>Military Logistics Facilities (K)   |
| 4. ELECTRONICS/COMMUNICATIONS<br>Deployed Communication/Electronic/Radar Facilities (C)  | 10. NUCLEAR ENERGY<br>Atomic Energy Facilities (O)  |
| 5. AIR<br>Air Base Facilities (E)  | 11. CBR<br>CBR Facilities (V)   |
| 6. NAVAL<br>Naval Base Facilities (F)  | 12. INDUSTRY<br>Strategic Weapons Industrial Facilities (J)<br>General Purpose Weapons Industrial Facilities (L)<br>Non-Military Industrial Facilities (N)<br>Communication/Electronic/Radar R&D Facilities (U) |
|  | 13. MISCELLANEOUS<br>Non-Military Logistics Facilities (M)<br>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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KH-4 MISSION 1111-1

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PREFACE

PREFACE

THIS IS THE THIRD AND FINAL 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. AT THE SARY-SHAGAN MISSILE TEST CENTER, SIGNIFICANT CONSTRUCTION PROGRESS WAS OBSERVED AT LAUNCH COMPLEX F. THIS CONSTRUCTION INCLUDED PAVING WORK ON THE ROAD SERVICING ONE OR BOTH OF THE TWO POSSIBLE LAUNCH POSITIONS, REVETTING OF A BUILDING ASSOCIATED WITH THESE LAUNCH POSITIONS, AND NEW CONSTRUCTION AT BOTH ENDS OF THE T-SHAPED ROAD.

GROUND FORCE ACTIVITY

25X1D 2. TRACKED VEHICLES WERE OBSERVED FOR THE FIRST TIME ON  
██████████ IN THE NEW AREA AT ULAN UDE BARRACKS AL-3.  
25X1D CONSTRUCTION WAS CONTINUING IN THIS NEW AREA WHICH WAS FIRST  
OBSERVED IN ██████████ AND IDENTIFIED AS A REGIMENTAL-SIZE  
BARRACKS FACILITY. ULAN UDE IS IN THE TRANSBAIKAL MILITARY  
25X1D DISTRICT, 100 NAUTICAL MILES (NM) FROM THE USSR-MONGOLIA  
BORDER. APPROXIMATELY 40 TRACKED VEHICLES WERE PRESENT IN THE  
NEW AREA ALONG WITH AT LEAST 200 OTHER VEHICLES AND PIECES OF  
EQUIPMENT. THE HIGHEST PREVIOUS COUNT OBSERVED IN THAT AREA  
WAS 138 VEHICLES IN ██████████

AIR ACTIVITY

25X1D 3. FIVE PROBABLE FLOGGER VARIABLE-WING FIGHTER AIRCRAFT  
WERE OBSERVED AT LIPETSK AIRFIELD WEST ON ██████████ THIS 25X1D  
IS THE FIRST TIME PROBABLE FLOGGER HAVE BEEN SEEN AT THIS FIELD  
WHICH IS AN ADVANCED TACTICAL PILOT TRAINING BASE. THE  
FLOGGER, FIRST SEEN BY WESTERN OBSERVERS AT A 1967 AIR SHOW,  
HAS PREVIOUSLY BEEN IDENTIFIED ON KEYHOLE PHOTOGRAPHY AT  
25X1D AKHTUBINSK FLIGHT TEST CENTER ██████████ AND 25X1D  
AT LUKHOVITSY AIRFIELD ██████████ THE TEST AND FLYAWAY FIELD  
25X1D FOR MOSCOW AIRFRAME PLANT 30. ALSO PRESENT AT LIPETSK AIRFIELD  
WEST ON ██████████ WERE THREE FOXBAT LONG-RANGE INTERCEPTOR  
25X1D AND STRIKE AIRCRAFT. ONLY ONE FOXBAT HAD BEEN SEEN HERE BEFORE  
ON ██████████

25X2

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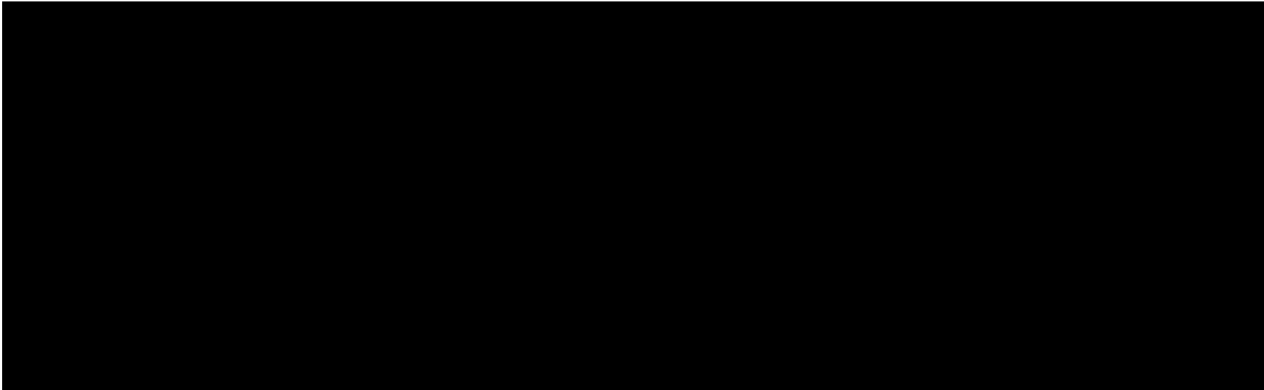
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HIGHLIGHTS

ELECTRONICS ACTIVITY

5. A PROBABLE OVER-THE-HORIZON DETECTION SYSTEM WAS UNDER CONSTRUCTION NEAR NIKOLAYEV. IT CONSISTS OF TWO LARGE ANTENNA ARRAYS POSITIONED 14 NM APART IN A PROBABLE BISTATIC ARRANGEMENT.



25X6

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CHINA, COMMUNIST  
INDUSTRY

OTHER RESULTS-NO APPARENT CHANGE

25X1D

25X1D

HU-HO-HAO-TE SOLID PROPELLANT COMPLEX  
NAC

STATUS: OPERATIONAL

25X1A

25X1D

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25X1A

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UNITED ARAB REPUBLIC  
AIR DEFENSE MISSILES

25X1D



25X1D

AL ISMAILIYAH PROBABLE SA-3 SITE

25X1D



25X1A



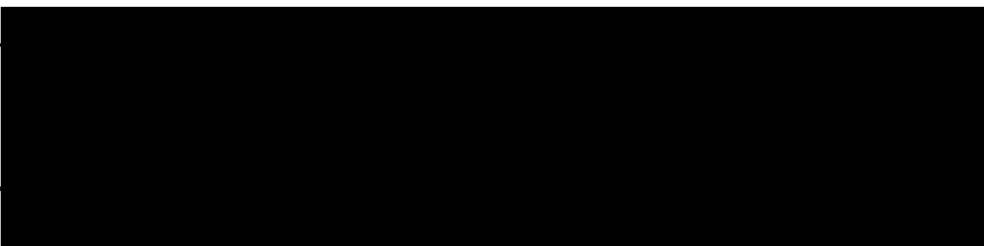
25X1A

STATUS:UNOCCUPIED

REMARKS:

ONE LAUNCH POSITION APPEARED TO HAVE BEEN PARTIALLY RAZED. BOMB CRATERS WERE OBSERVED BETWEEN THE LAUNCH POSITIONS AND THE GUIDANCE AREA. THIS SITE HAS AN SA-2 CONFIGURATION.

25X1D



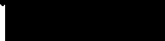
25X1D

AL ISMAILIYAH SAM SITE A25-2

25X1D



25X1A



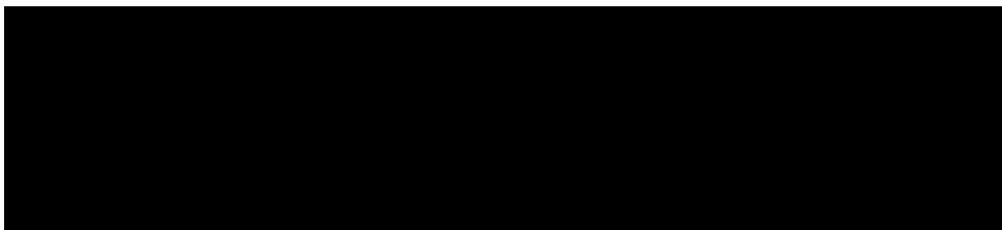
25X1A

STATUS:UNOCCUPIED

REMARKS:

A BOMB CRATER WAS ADJACENT TO ONE OF THE LAUNCH POSITIONS. ONLY FIVE LAUNCH POSITIONS WERE APPARENT.

25X1D



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UNITED ARAB REPUBLIC  
AIR DEFENSE MISSILES

25X1D

AL ISMAILIYAH SAM SITE A28-2  
NAC

25X1D

STATUS: OCCUPIED

25X1A

25X1D

[REDACTED]

25X1D

AL ISMAILIYAH SAM SITE A29-2

25X1D

25X1A

STATUS: OCCUPIED

25X1A

REMARKS:  
THE SITE SHOWED BOMB DAMAGE.

25X1D

[REDACTED]

25X1D

AL ISMAILIYAH SAM SITE B01-2  
NAC

25X1D

STATUS: OCCUPIED

25X1A

25X1D

[REDACTED]

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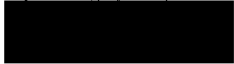
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UNITED ARAB REPUBLIC  
AIR DEFENSE MISSILES

25X1D

AL ISMAILIYAH SAM SITE B19A-2  
NAC

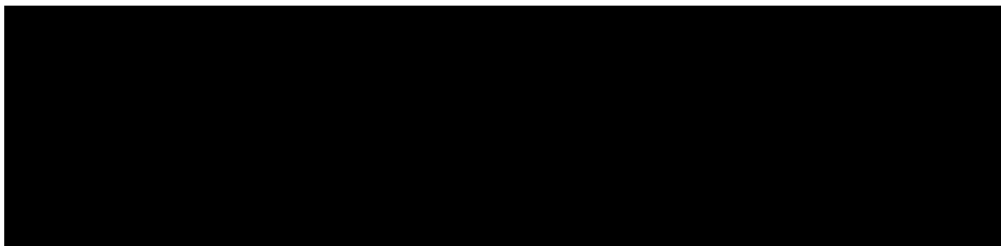
25X1D



25X1A

STATUS: OCCUPIED

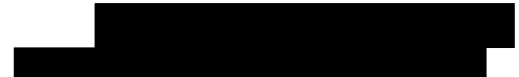
25X1D



25X1D

AL ISMAILIYAH SAM SITE B19-2  
NAC

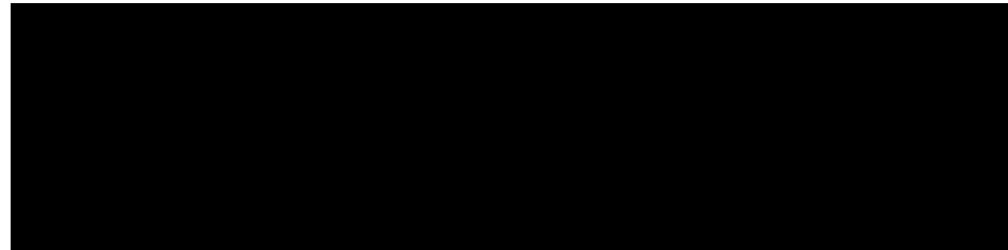
25X1D



25X1A

STATUS: OCCUPIED

25X1D



25X1D

AL ISMAILIYAH SAM SITE B22-2  
NAC

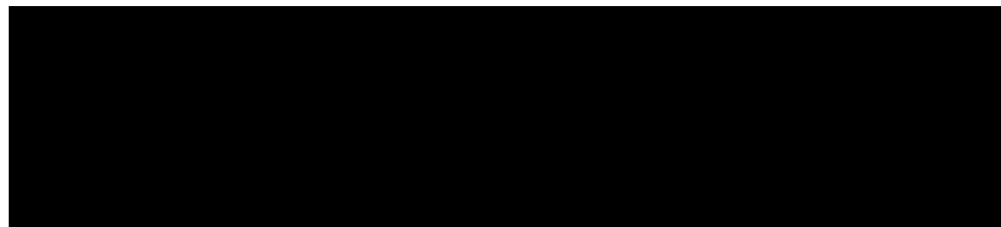
25X1D



25X1A

STATUS: OCCUPIED

25X1D



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UNITED ARAB REPUBLIC  
AIR DEFENSE MISSILES

25X1D

AL ISMAILIYAH SAM SITE B26-2  
NAC

25X1D

STATUS:OCCUPIED

25X1A

25X1D

25X1D

AL ISMAILIYAH SAM SITE B27-3

25X1D

25X1A

STATUS:UNOCCUPIED

25X1A

REMARKS:  
SEVERAL BOMB CRATERS WERE OBSERVED.

25X1D

25X1D

AL ISMAILIYAH SAM SITE C23A-2  
NAC

25X1D

STATUS:OCCUPIED

25X1A

25X1D

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25X1

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UNITED ARAB REPUBLIC  
AIR DEFENSE MISSILES

25X1D

[REDACTED]

25X1D

25X1D

AL QAHIRAH SAM SITE C28B-3

25X1A

[REDACTED]

[REDACTED]

[REDACTED]

25X1A

STATUS:UNOCCUPIED

REMARKS:

THE SA-3 LAUNCH POSITIONS WERE UNOCCUPIED. HOWEVER, POSSIBLE SA-2 EQUIPMENT WAS DEPLOYED OUTSIDE THE SITE.

25X1D

[REDACTED]

25X1D

25X1D

AS SUWAYS PROB SA-3 SITE

25X1A

[REDACTED]

[REDACTED]

[REDACTED]

25X1A

STATUS:UNOCCUPIED

PHYSICAL DESCRIPTION:

34.5 NM WNW OF AS SUWAYS.

THE SITE CONSISTS OF SIX REVETTED LAUNCH POSITIONS AND A BUNKERED GUIDANCE AREA.

25X1D

[REDACTED]

25X1D

25X1D

AS SUWAYS SAM SUPPORT FACILITY  
NAC

[REDACTED]

[REDACTED]

25X1A

STATUS:OPERATIONAL

25X1D

[REDACTED]

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~~TOP SECRET RUFF~~

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UNITED ARAB REPUBLIC  
AIR DEFENSE MISSILES

25X1D

[REDACTED]

25X1D

[REDACTED]

25X1D

BANI SUWAYF SAM SITE A34-3  
[REDACTED] NAC [REDACTED]

STATUS:OCCUPIED

25X1A

25X1D

[REDACTED]

25X1D

25X1D

BILBAYS SAM SITE A19-2  
[REDACTED] NAC [REDACTED]

STATUS:OCCUPIED

25X1A

25X1D

[REDACTED]

25X1D

25X1D

MIT GHAMR SUSPECT SA-3 SITE 1  
[REDACTED] [REDACTED] [REDACTED]

25X1A

25X1A

STATUS:NEGATED

REMARKS:  
NO MISSILE ACTIVITY WAS OBSERVED.

25X1D

[REDACTED]

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25X1

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UNITED ARAB REPUBLIC  
AIR BASE FACILITIES

SIGNIFICANT RESULTS

25X1D

25X1D

AL FAYYUM AIRFIELD  
[REDACTED] NAC

[REDACTED]

STATUS: OPERATIONAL

25X1A

AIR ORDER OF BATTLE:  
1 POSS SMALL  
SWEPT/DELTA-WING

4 POSS SMALL AIRCRAFT

ASSOCIATED OBJECTS:  
1 POSS HELICOPTER FUSELAGE

25X1D

[REDACTED]

25X1D

25X1D

BENI SUEF AIRFIELD

25X1A

[REDACTED]

STATUS: OPERATIONAL

25X1A

REMARKS:  
A PARALLEL TAXIWAY FOR THE NE/SW RUNWAY WAS UNDER CONSTRUCTION.  
THE FIVE CIRCLES THAT WERE REPORTED IN THE DISPERSAL AREA IN  
[REDACTED] HAVE BEEN DUG OUT TO MAKE HOLES IN  
THE TAXIWAY SYSTEM. THIS MAKES A TOTAL OF SIX HOLES IN THE  
TAXIWAY.

25X1D

AIR ORDER OF BATTLE:  
5 BADGER  
3 POSS FISHBED  
6 SWEPT/DELTA-WING  
2 CAT/CUB

3 SMALL STRAIGHT-WING  
5 POSS SMALL AIRCRAFT (AT  
LEAST)  
1 HELICOPTER

25X1D

[REDACTED]

25X1D

25X1D

BILBAYS AIRFIELD  
[REDACTED] NAC

[REDACTED]

25X1A

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UNITED ARAB REPUBLIC  
AIR BASE FACILITIES

STATUS: OPERATIONAL

AIR ORDER OF BATTLE:

25X1D

2 POSS FITTER  
9 SMALL SWEEP/DELTA-WING  
5 POSS SMALL  
SWEEP/DELTA-WING

3 LIGHT STRAIGHT-WING  
6 SMALL STRAIGHT-WING  
4 POSS DUMMY AIRCRAFT

25X1D

5 SMALL SWEEP/DELTA-WING  
3 POSS SMALL AIRCRAFT

2 LIGHT STRAIGHT-WING  
1 SMALL STRAIGHT-WING

25X1D



25X1D

BIRMA AIRFIELD

NAC

25X1D

25X1A

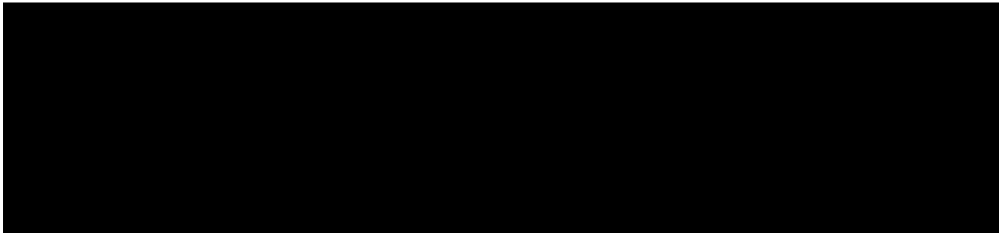
STATUS: OPERATIONAL

AIR ORDER OF BATTLE:

1 FITTER  
10 SMALL SWEEP-WING

3 POSS SMALL SWEEP-WING

25X1D



25X1D

25X1D

CAIRO AIRFIELD WEST

NAC

25X1A

STATUS: OPERATIONAL

AIR ORDER OF BATTLE:

6 BADGER

8 SMALL SWEEP/DELTA-WING

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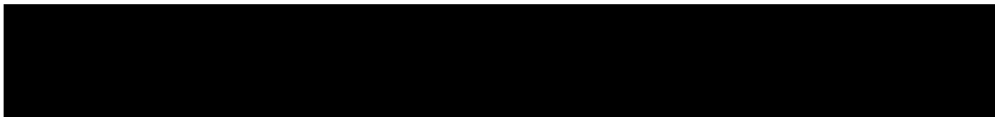
UNITED ARAB REPUBLIC  
AIR BASE FACILITIES

11 PROB BEAGLE  
6 PROB FISHBED  
2 MAIL  
2 CAT/CUB

1 LIGHT STRAIGHT-WING  
4 POSS SMALL AIRCRAFT  
1 POSS DUMMY FISHBED

ASSOCIATED OBJECTS:  
1 DERELICT BADGER

25X1D



25X1D

CAIRO ALMAZA AIRFIELD

25X1A

25X1D



25X1A

STATUS: OPERATIONAL

REMARKS:

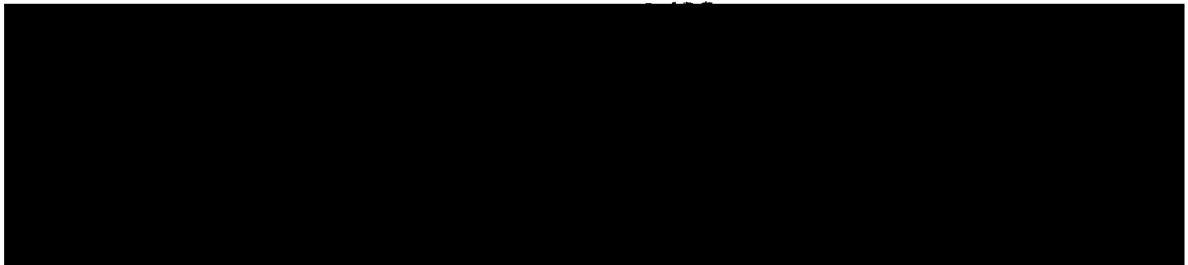
NINETEEN PROBABLY PROTECTIVE STRUCTURES WERE IN FRONT OF 19 HANGARETTES.

AIR ORDER OF BATTLE:

4 SMALL SWEEP/DELTA-WING  
20 LIGHT STRAIGHT-WING  
13 SMALL STRAIGHT-WING  
1 HOOK

6 LIGHT HELICOPTERS  
6 POSS SMALL AIRCRAFT (AT LEAST)  
2 POSS HELICOPTERS

25X1D

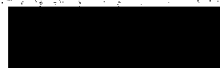


25X1D

HURGHADA AIRFIELD NEW

25X1A

25X1D



25X1A

STATUS: OPERATIONAL

REMARKS:

AT LEAST EIGHT PROBABLY PROTECTIVE STRUCTURES WERE IN FRONT OF AT LEAST EIGHT HANGARETTES.

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UNITED ARAB REPUBLIC  
AIR BASE FACILITIES

25X1D AIR ORDER OF BATTLE:  
[REDACTED]  
4 SMALL SWEEP/DELTA-WING 2 PROB HELICOPTERS

25X1D [REDACTED]  
3 SMALL SWEEP/DELTA-WING

25X1D [REDACTED]

25X1D INCHAS AIRFIELD [REDACTED] 25X1A [REDACTED] 25X1D [REDACTED] 25X1A

STATUS: OPERATIONAL

REMARKS:  
A PARALLEL TAXIWAY FOR THE NW/SE RUNWAY WAS UNDER CONSTRUCTION.

25X1D AIR ORDER OF BATTLE:  
[REDACTED]  
1 POSS FISHBED 7 POSS SMALL AIRCRAFT  
9 SWEEP/DELTA-WING 1 POSS AIRCRAFT  
1 POSS SWEEP/DELTA-WING 5 POSS DUMMY FISHBED

25X1D [REDACTED]  
4 POSS AIRCRAFT

25X1D [REDACTED]

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UNITED ARAB REPUBLIC  
AIR BASE FACILITIES

25X1D

JIIYANKLIS AIRFIELD NEW

25X1A

25X1D

STATUS: OPERATIONAL

25X1A

REMARKS:  
CONSTRUCTION WAS CONTINUING ON THE WNW/ESE RUNWAY.

AIR ORDER OF BATTLE:  
3 PROB BADGER 22 PROB SMALL  
7 SMALL SWEEP/DELTA-WING SWEEP/DELTA-WING

25X1D

25X1D

QUWAYSINA AIRFIELD  
NAC

25X1D

25X1A

STATUS: OPERATIONAL

25X1D

AIR ORDER OF BATTLE:  
8 FAGOT/FRESCO (POSS DUMMY)  
1 POSS SMALL AIRCRAFT (AT  
LEAST)

25X1D

6 SMALL SWEEP/DELTA-WING  
(AT LEAST)

25X1D

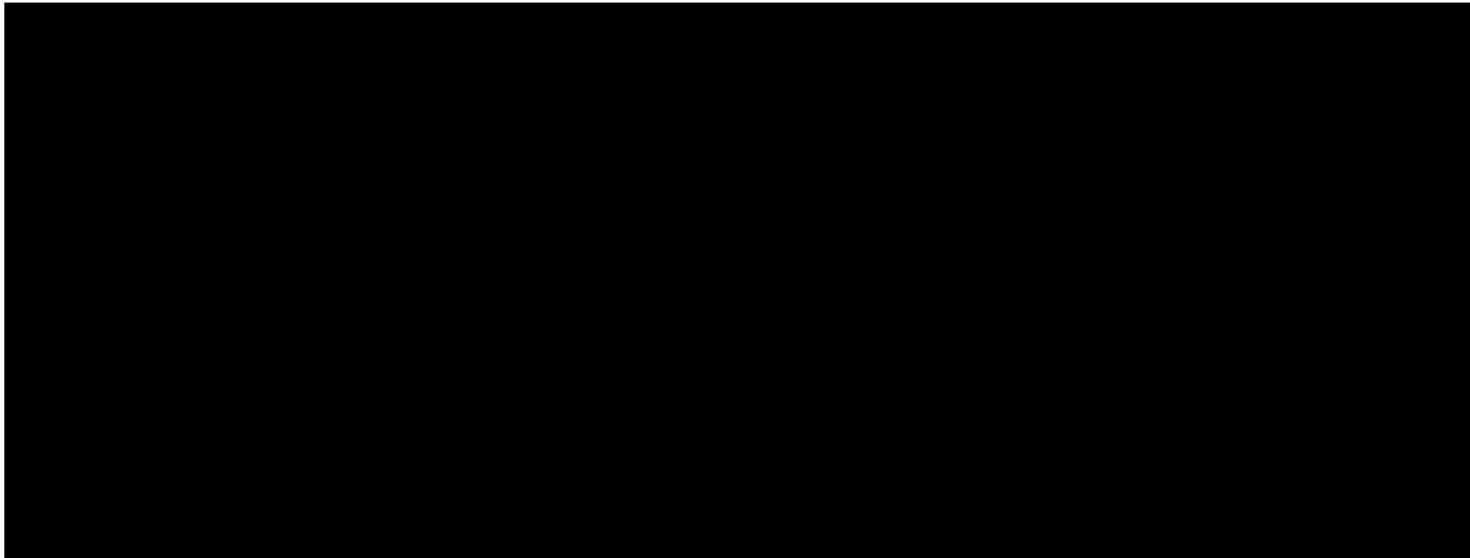
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UNITED ARAB REPUBLIC  
AIR BASE FACILITIES

25X6



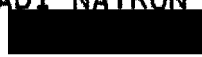
25X1D



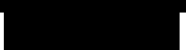
25X1D

25X1D

WADI NATRUN AIRFIELD NORTHEAST



25X1A



25X1A

STATUS: OPERATIONAL

REMARKS:

CONSTRUCTION WAS CONTINUING ON THE HANGARETTES, PERIMETER ROAD,  
VEHICLES SHELTERS, AND LARGE EXCAVATION ADJACENT TO THE NORTH  
END OF THE N/S RUNWAY.

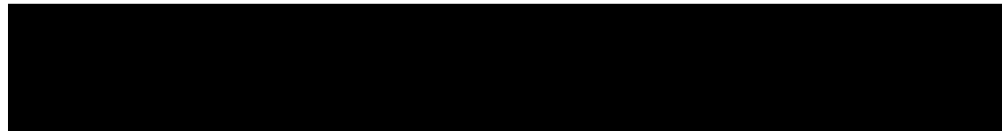
AIR ORDER OF BATTLE:

10 POSS FISHBED

4 SMALL AIRCRAFT

2 POSS FAGOT/FRESCO

25X1D



OTHER RESULTS-NO APPARENT CHANGE

25X1D

25X1D

BILBAYS AIRFIELD 2



NAC



25X1A

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25X1

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TOP SECRET RUFF

TCS-20335/70 - IPIR 3  
KH-4 MISSION 1111-1

UNITED ARAB REPUBLIC  
GROUND FORCE FACILITIES

SIGNIFICANT RESULTS

25X1D

SUEZ CANAL SPECIAL AREA 0708

25X1D

25X1A

STATUS: OCCUPIED

REMARKS:

THE ROAD NORTH FROM AL QANTARAH ON THE EAST SIDE OF THE CANAL WAS SAND BANKED. THREE PROBABLE STRONG POINTS WERE ON THE EAST BANK OF THE CANAL.

GROUND FORCE ORDER OF BATTLE:  
NONE DISCERNIBLE

25X1D

25X1D

SUEZ CANAL SPECIAL AREA 1204

25X1D

25X1A

STATUS: OCCUPIED

REMARKS:

TWO NEWLY IDENTIFIED SA-2 SAM SITES AND ONE SA-3 SAM SITE WERE OBSERVED IN THE SW CORNER OF THE AREA.

GROUND FORCE ORDER OF BATTLE:  
NONE DISCERNIBLE

25X1D



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UNITED ARAB REPUBLIC  
GROUND FORCE FACILITIES

25X1D

SUEZ CANAL SPECIAL AREA 1305

25X1D

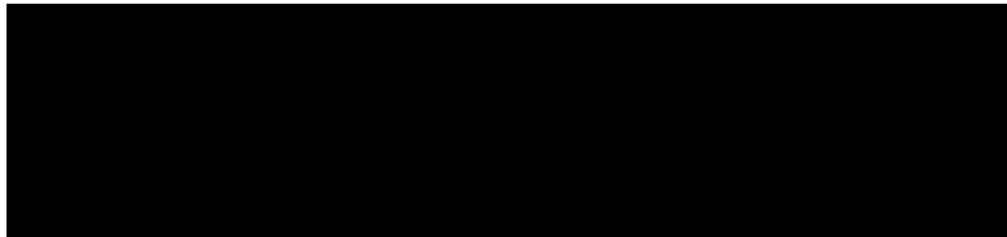
STATUS: OCCUPIED

25X1A

REMARKS:

THREE STRONG POINTS WERE ON THE EAST BANK OF THE CANAL AND AT  
LEAST 40 VEHICLE OR EQUIPMENT REVETMENTS WERE ON THE EASTERN  
SIDE OF THE AREA. NUMEROUS REVETMENTS, AAA POSITIONS, AND  
TRENCHING WERE ON THE WESTERN SIDE OF THE CANAL.

GROUND FORCE ORDER OF BATTLE:  
NONE DISCERNIBLE



25X1D

OTHER RESULTS-NO APPARENT CHANGE

25X1D

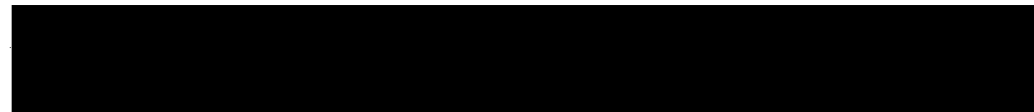
SUEZ CANAL SPECIAL AREA 0704  
NAC

25X1D

STATUS: UNKNOWN

25X1A

GROUND FORCE ORDER OF BATTLE:  
NONE DISCERNIBLE



25X1D

W

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JORDAN  
COMMO/ELEC/RADAR FACILITIES

SIGNIFICANT RESULTS

25X1D

25X1A

TALL AL ASFAR RADAR SEARCH



25X1D

STATUS: UNKNOWN

25X1A

25X1A

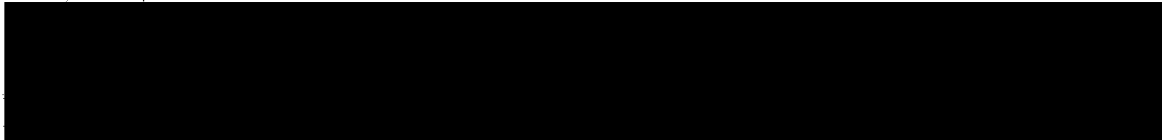
REMARKS:

JABAL UMM AD DARAJ RADAR FACILITY (BE [REDACTED]) AND RIHAB AW  
RADAR FACILITY (BE [REDACTED]) ARE WITHIN THE SEARCH AREA OF  
WHICH APPROXIMATELY 90 PERCENT WAS COVERED. NO OTHER RADAR  
SITES WERE OBSERVED.

ELECTRONIC ORDER OF BATTLE:

- |                                   |                      |
|-----------------------------------|----------------------|
| 1 RANGE AND AZIMUTH RADAR         | 1 PROB HEIGHT FINDER |
| 1 PROB RANGE AND AZIMUTH<br>RADAR | 1 POSS HEIGHT FINDER |

25X1D



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TOP SECRET RUFF

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SYRIA  
AIR BASE FACILITIES

SIGNIFICANT RESULTS

25X1D

DUMAYR AIRFIELD

[REDACTED]

NAC

25X1D

[REDACTED]

STATUS: OPERATIONAL

25X1A

AIR ORDER OF BATTLE:  
2 SMALL SWEEP-WING

2 POSS AIRCRAFT

25X1D

[REDACTED]

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SYRIA  
NAVAL BASE FACILITIES

SIGNIFICANT RESULTS

25X1D

25X1D

TARTUS PORT FACILITIES  
[REDACTED] NAC [REDACTED]

STATUS: OPERATIONAL

25X1A

NAVAL ORDER OF BATTLE:  
2 PROB SMALL COMBATANTS  
2 FREIGHTERS

1 PROB FREIGHTER

25X1D

[REDACTED]

Handle Via  
Talent Hole  
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TOP SECRET RUFF

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SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

SIGNIFICANT RESULTS

25X1D

GRANOV IRBM COMPLEX

STATUS: OPERATIONAL

25X1A

REMARKS:

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

25X1D

25X1D

KARTALY ICBM COMPLEX

STATUS: OPERATIONAL

25X1A

REMARKS:

ALL KNOWN COMPONENTS OF THE COMPLEX WERE OBSERVED, INCLUDING THREE NEWLY IDENTIFIED LAUNCH SITES WHICH COMPLETE THE G GROUP. THESE SITES, DESIGNATED 51G, PROBABLE 52G, AND 53G, WERE IN AN EARLY STAGE OF CONSTRUCTION. AT LAUNCH SITE 42F, A MISSILE LOADING EXERCISE APPEARED TO BE UNDERWAY. A PROBABLE MISSILE WAS PARTIALLY ERECTED OVER THE SILO AND THE STAGE TRANSPORTERS WERE ON THE SILO APRON. NO OTHER MISSILE ACTIVITY WAS OBSERVED.

DATA FOR THE NEW SITES --

| LAUNCH SITE | GEOGRAPHIC COORDINATES | CONST STAGE | NOT PRESENT | FIRST SEEN |
|-------------|------------------------|-------------|-------------|------------|
| 51G         |                        |             |             |            |
| PROB 52G    |                        |             |             |            |
| 53G         |                        |             |             |            |

25X1D

PHOTOGRAPHIC REFERENCES FOR THE NEW SITES --

LS 51G -- 82  
PROB LS 52G -- 82  
LS 53G -- 82

25X1D

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25X1A

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SOVIET UNION  
MISSILE RANGES

SIGNIFICANT RESULTS

25X1D EMBA MISSILE TEST CENTER 48-38-//N 058-03-//E  
[REDACTED] NAC [REDACTED]  
STATUS: OPERATIONAL 25X1A

REMARKS:  
ALL COMPONENTS OF THE TEST CENTER WERE COVERED AND APPEARED ACTIVE. TRAINING EXERCISES WERE IN PROGRESS WEST OF SUPPORT AREA A AND THE LAUNCH COMPLEX.

25X1D [REDACTED] 25X1D

25X1D KAPUSTIN YAR/VLADIMIROVKA MSL TEST CTR [REDACTED]  
[REDACTED]  
STATUS: OPERATIONAL 25X1A

REMARKS:  
ALL LAUNCH COMPLEXES WERE VISIBLE, HOWEVER, COMPLEXES A AND B WERE IDENTIFIABLE ONLY. POSSIBLE VEHICLES OR PIECES OF EQUIPMENT WERE OBSERVED IN LAUNCH AREAS 1C, 2C, 3C, AND 5C. POSSIBLE CONSTRUCTION ACTIVITY WAS AGAIN APPARENT AT LAUNCH SITE 5C-2. ADDITIONAL GROUND SCARRING AND EXCAVATING WERE OBSERVED IN AND AROUND THE LAUNCH SITE.

25X1D [REDACTED] 25X1D

25X1D SARY-SHAGAN MISSILE TEST CENTER [REDACTED]  
[REDACTED] 25X1A

STATUS: OPERATIONAL

REMARKS:  
THE ENTIRE SARY-SHAGAN MISSILE TEST CENTER WAS COVERED BY PARTIAL STEREO PHOTOGRAPHY OF GENERALLY FAIR INTERPRETABILITY.

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KH-4 MISSION 1111-1

SOVIET UNION  
MISSILE RANGES

AT LAUNCH COMPLEX D, THE RADOME SECTION FOR TRY ADD BUILDING A REMAINED ON THE GROUND. NO NEW AREAS OF CONSTRUCTION ACTIVITY WERE OBSERVED AT COMPLEX D.

25X1D

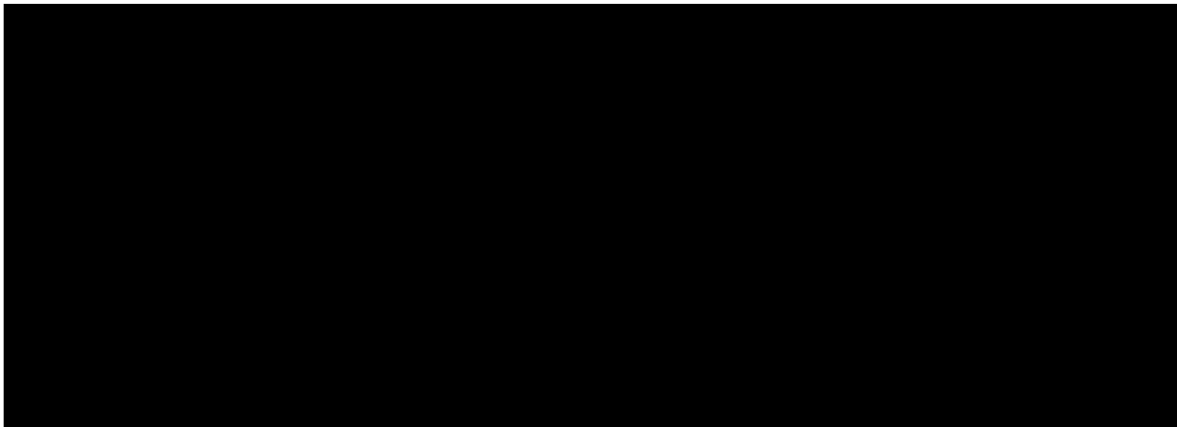
AT LAUNCH COMPLEX F, THE PROBABLE THIRD GALOSH-TYPE LAUNCH POSITION AT LAUNCH SITE 1, REPORTED UNDER CONSTRUCTION AND OCCUPIED BY AN UNIDENTIFIED OBJECT ON [REDACTED] WAS UNOCCUPIED ON [REDACTED] IN THE AREA ADJACENT TO LAUNCH SITE 1, THE TWO POSSIBLE LAUNCH POSITIONS AND THE WIDE-RADIUS-TURN OVAL-SHAPED ROAD SERVING THEM HAD BEEN HARD SURFACED. UNIDENTIFIED CONSTRUCTION ACTIVITY WAS OBSERVED ALONG THE WESTERN SECTION OF THIS SERVICE ROAD. A BUILDING ASSOCIATED WITH ONE OR BOTH OF THE POSSIBLE LAUNCH POSITIONS HAD BEEN COMPLETED AND HEAVILY REVETTED ON AT LEAST THE SIDE FACING ONE OF THE POSSIBLE LAUNCH POSITIONS. AN EARTH-GRADED PAD SERVED BY WIDE-RADIUS ACCESS TURNS AT EACH END WAS UNDER CONSTRUCTION IN A PREVIOUS AREA OF SCARRING ADJACENT TO THE SE SEGMENT OF THE T-SHAPED ROAD. EXTENSIVE NEW GRADING WAS OBSERVED AT THE NW END OF THIS ROAD.

25X1D

NO NEW LAUNCH COMPLEXES OR ASSOCIATED FACILITIES WERE OBSERVED.

(SEE ATTACHMENT)

25X1D





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SOVIET UNION  
AIR DEFENSE MISSILES

SIGNIFICANT RESULTS

25X1D

MOSKVA ABM LAUNCH COMPLEX E05  
NAC

STATUS:OCCUPIED

REMARKS:

GALOSH MISSILE CANISTERS WERE ELEVATED IN LAUNCHER ERECTORS AT LAUNCH POSITIONS 1B2 AND 1C3, TRY ADD 1. NO GALOSH CANISTERS WERE PRESENT AT TRY ADD 2.

25X1D

25X1D

MOSKVA ABM LAUNCH COMPLEX E15

25X1D

25X1A

STATUS:NOT OPERATIONAL

REMARKS:

NO NEW TRACK ACTIVITY OR EVIDENCE OF RENEWED CONSTRUCTION WAS OBSERVED AT THE TRY ADD AREA. IN THE SUPPORT AREA, A BUILDING FRAMEWORK MAY HAVE BEEN UNDER CONSTRUCTION ON THE PREVIOUSLY REPORTED FOUNDATION.

NO MISSILES OR MISSILE-RELATED EQUIPMENT WAS OBSERVED.

25X1D

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SOVIET UNION  
AIR DEFENSE MISSILES

25X1D

MOSKVA ABM LAUNCH COMPLEX E24

25X1D

[REDACTED]

[REDACTED]

25X1A

STATUS: OCCUPIED

25X1D

REMARKS:

ON [REDACTED] GALOSH MISSILE CANISTERS WERE ENGAGED HORIZONTALLY IN THE LAUNCHER ERECTORS AT LAUNCH POSITIONS 1B3 AND 1C2, TRY ADD 1, AND GALOSH CANISTERS WERE IN THE HORIZONTAL POSITION AT LAUNCH POSITIONS 2C1 AND 2C4, TRY ADD 2, ONLY A PORTION OF THE LAUNCH AREA WAS VISIBLE ON [REDACTED] AND THE PRESENCE OF MISSILE CANISTERS COULD NOT BE CONFIRMED.

25X1D

25X1D

[REDACTED]

25X1D

25X1D

MOSKVA ABM LAUNCH COMPLEX E31  
NAC

[REDACTED]

[REDACTED]

25X1A

STATUS: OCCUPIED

25X1D

REMARKS:

ON [REDACTED] A GALOSH MISSILE CANISTER WAS IN THE HORIZONTAL POSITION AT LAUNCH POSITION 1B3, TRY ADD 1, AND GALOSH CANISTERS WERE IN THE HORIZONTAL POSITION AT LAUNCH POSITIONS 2C1 AND 2C4.

25X1D

[REDACTED]

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Talent-KEYHOLE  
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SOVIET UNION  
AIR DEFENSE MISSILES

25X1D

MOSKVA ABM LAUNCH COMPLEX E33  
NAC

25X1D

25X1A

STATUS: OCCUPIED

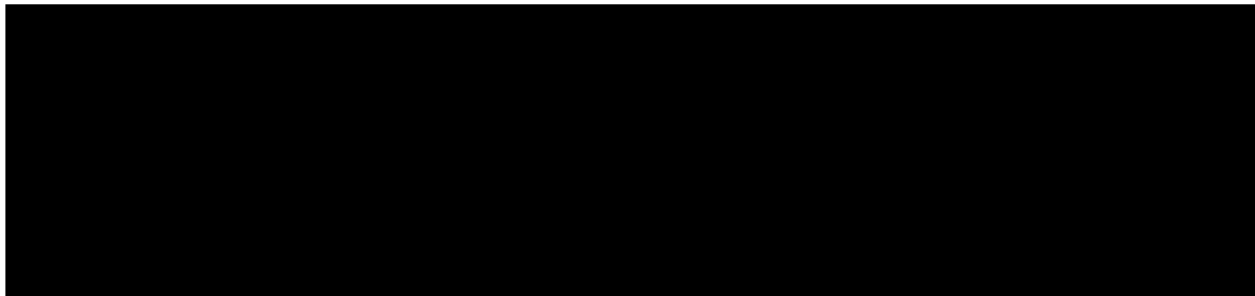
25X1D

REMARKS:

ON [REDACTED] A PROBABLE GALOSH MISSILE CANISTER WAS ELEVATED  
IN THE LAUNCHER ERECTOR AT LAUNCH POSITION 1B3, TRY ADD 1, AND  
A POSSIBLE GALOSH CANISTER WAS AT LAUNCH POSITION 1C4, TRY ADD  
1. ON [REDACTED] ELEVATED GALOSH CANISTERS WERE PRESENT AT THE  
SAME TWO LAUNCH POSITIONS, AND AT LAUNCH POSITION 2B4, TRY ADD  
2.

25X1D

25X1D



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SOVIET UNION  
COMMO/ELEC/RADAR FACILITIES

SIGNIFICANT RESULTS

25X1D

NIKOLAYEV PROBABLE OHD SYSTEM U/C

25X1D

STATUS: UNDER CONSTRUCTION

25X1A

PHYSICAL DESCRIPTION:

9.3 NM NE OF NIKOLAYEV.

A PROBABLE OVER-THE-HORIZON DETECTION SYSTEM IS UNDER CONSTRUCTION NEAR NIKOLAYEV, USSR. THE SYSTEM CONSISTS OF TWO LARGE ANTENNA ARRAYS, APPROXIMATELY 14 NM APART IN AN APPARENT BISTATIC ARRANGEMENT.

25X1D

25X1A ONE ANTENNA ARRAY [REDACTED], ADJACENT TO THE NIKOLAYEV RDO COM RCVR STA [REDACTED] IS THE PROBABLE RECEIVING ARRAY FOR THE SYSTEM BASED ON ITS LARGER SIZE AND ITS PROXIMITY TO THIS RECEIVING FACILITY. THIS ARRAY IS APPROXIMATELY 354 METERS (1,060 FEET) LONG AND 98 METERS (320 FEET) HIGH AND CONTAINS 32 TOWERS WHICH ARE LINEARLY POSITIONED. A LARGE CIRCULAR AREA CONSISTING OF EXCAVATIONS IS IMMEDIATELY NORTH OF THE ANTENNA BUT ITS FUNCTION IS NOT KNOWN.

25X1A THE SECOND ANTENNA ARRAY IS LOCATED AT THE NIKOLAYEV RADCOM A AM BC XMTR STA [REDACTED] AND IS PROBABLY THE TRANSMITTER ARRAY. THIS ARRAY IS APPROXIMATELY 190 METERS (650 FEET) LONG AND 64 METERS (210 FEET) HIGH AND CONTAINS 15 TOWERS WHICH ARE LINEARLY POSITIONED.

25X1D

BOTH ANTENNA ARRAY ORIENTATIONS ARE IDENTICAL, BUT IT CANNOT BE DETERMINED WHETHER THE ARRAYS WILL OPERATE AT [REDACTED] DEGREES.

(SEE ATTACHMENT)

25X1D

[REDACTED]

25X1D

NIKOLAYEV RADCOM A AM BC XMTR STA [REDACTED]

25X1D

STATUS: OPERATIONAL

25X1A

REMARKS:

CONSTRUCTION CONTINUED ON THE FOUR ANTENNA ARRAYS IN THE NEW

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SOVIET UNION  
COMMO/ELEC/RADAR FACILITIES

25X1D

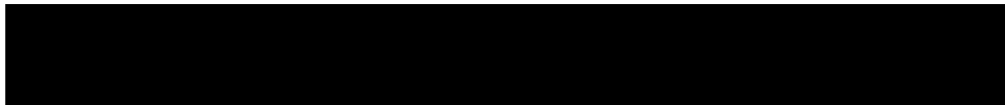
25X1D

25X1D

AREA 1.2 KM SOUTH OF THE ORIGINAL FACILITY. ALL OF THE TOWERS FOR TWO OF THE ARRAYS HAVE BEEN ERECTED. THE ARRAY CONSISTS OF TWO LARGE SELF-SUPPORTING LATTICE STEEL TOWERS, ONE ON EACH END OF THE ARRAY, AND THREE GUYED PROBABLE LATTICE STEEL TOWERS, EVENLY SPACED BETWEEN THE END TOWERS. TWO LARGE STEEL TOWERS AND THREE GUYED TOWERS HAVE BEEN ERECTED FOR THE OTHER ARRAYS. CONSTRUCTION CONTINUED ON THE FEED SYSTEM WHICH RUNS FROM THE L-SHAPED CONTROL BUILDING TO THE NEW ARRAYS. A NEW ANTENNA ARRAY, PREVIOUSLY IDENTIFIED AS A MULTI-STORY BUILDING UNDER CONSTRUCTION, IS LOCATED HALFWAY BETWEEN THE OLD AND THE NEW FACILITY, ALONG THE ROAD JOINING THEM. THE ARRAY IS APPROXIMATELY 198 METERS (650 FEET) LONG AND IS MADE UP OF 15 TOWERS 64 METERS (210 FEET) HIGH. THIS ARRAY IS ORIENTED ON AN AZIMUTH OF [REDACTED] DEGREES. A CONTROL BUILDING IS LOCATED ON THE SW SIDE OF THE ARRAY. LOCATED 14 NM NORTH OF THIS FACILITY AT [REDACTED] IS A SECOND ARRAY, APPROXIMATELY 354 METERS (1060 FEET) LONG WITH 32 TOWERS APPROXIMATELY 98 METERS (320 FEET) HIGH. THIS ARRAY IS ORIENTED ON AN AZIMUTH OF [REDACTED] DEGREES AND A T-SHAPED CONTROL BUILDING IS LOCATED ON THE SW SIDE OF THE ARRAY. UNIDENTIFIED CIRCULAR GROUND SCARRING IS LOCATED ON THE NW END OF THE ARRAY. THIS SCARRING CONSISTS OF FOUR CONCENTRIC CIRCLES OF EXCAVATED HOLES. THESE TWO NEW ARRAYS COMPRISE A PROBABLE OVER-THE-HORIZON DETECTION SYSTEM.

(SEE ATTACHMENT)

25X1D



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SOVIET UNION  
AIR BASE FACILITIES

SIGNIFICANT RESULTS

25X1D ANISOVO GORODISHCHE AIRFIELD  
[REDACTED] NAC [REDACTED] 25X1D

STATUS: OPERATIONAL 25X1A

25X1D AIR ORDER OF BATTLE:  
[REDACTED]  
26 BADGER

25X1D [REDACTED]  
34 BADGER

25X1D [REDACTED]

25X1D LIPETSK AIRFIELD WEST [REDACTED] 25X1D

STATUS: OPERATIONAL 25X1A

25X1D REMARKS:  
THIS IS THE FIRST OBSERVATION OF PROBABLE FLOGGER AT THIS  
FIELD. AN INCREASE OF TWO FOXBAT IS NOTED SINCE THE LAST  
PREVIOUS [REDACTED] WHEN ONE FOXBAT  
WAS OBSERVED HERE FOR THE FIRST TIME. THE ORDER OF BATTLE  
CONSTITUTES THE LARGEST NUMBER OF AIRCRAFT EVER OBSERVED AT  
THIS FIELD.

AIR ORDER OF BATTLE:  
6 BEAGLE (1 POSS)                      2 PROB FITTER  
3 FOXBAT                                    12 FAGOT/FRESCO  
5 PROB FLOGGER                            1 CRATE  
42 FISHBED                                2 CLOD  
4 PROB FISHBED                            1 SMALL STRAIGHT-WING  
33 FIREBAR                                2 HARE  
26 FITTER

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25X1D

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TOP SECRET RUFF

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SOVIET UNION  
GROUND FORCE FACILITIES

SIGNIFICANT RESULTS

25X1D

ULAN UDE ARMY BKS AL-3

25X1D

STATUS: OCCUPIED

25X1A

REMARKS:

25X1D

A NEW UNIT HAD MOVED INTO THE NEW AREA REPORTED UNDER CONSTRUCTION IN [REDACTED] CONSTRUCTION WAS CONTINUING ON FACILITIES IN THE NEW AREA WHICH CONTAINS 11 BARRACKS, EIGHT QUONSET BUILDINGS, ONE PROBABLE VEHICLE STORAGE BUILDING, SEVEN OTHER BUILDINGS, ONE MESSHALL UNDER CONSTRUCTION, TWO OTHER BUILDINGS UNDER CONSTRUCTION, A PARADE FIELD, AND A LARGE MOTOR PARK.

25X1D

GROUND FORCE ORDER OF BATTLE:

[REDACTED] -- MAIN BARRACKS AREA

60 TRACKED VEHICLES  
(APPROXIMATELY)

200 VEHICLES AND PIECES OF  
EQUIPMENT (AT LEAST)

25X1D

[REDACTED] -- NEW AREA

40 TRACKED VEHICLES  
(APPROXIMATELY)

200 VEHICLES AND PIECES OF  
EQUIPMENT (AT LEAST)

25X1D

[REDACTED]



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25X2

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TOP SECRET RUFF

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SOVIET UNION  
INDUSTRY

SIGNIFICANT RESULTS

25X1D

LENINGRAD SHIPYARD ADMIRALTY 194

25X1D

25X1A

STATUS: OPERATIONAL

REMARKS:

25X1D

CONSTRUCTION WAS CONTINUING ON THE BUILDING SE OF POSITION 461 AND ON THE NEW ROAD BRIDGE ACROSS THE FONTANKA CANAL. A POSSIBLE V SSN WAS BETWEEN TWO APL/YR AT POSITION 46 WHERE A V SSN WAS OBSERVED IN [REDACTED] THE VOSTOK FISH FACTORY SHIP REMAINED AT POSITION 45 AND TWO FLOATING DRYDOCKS WERE STILL ON THE BUILDINGWAYS.

NAVAL ORDER OF BATTLE:

- |  |  |
|--|--|
| 1 POSS V SSN AT POSITION 46                  | 50 AND 51                                  |
| 2 APL/YR (1 TYPE-1, 1 TYPE-2) AT POSITION 46 | 1 GERMAN FLOATING DRYDOCK AT POSITION 47   |
| 1 POSS ZEYA YRSN AT POSITION 461             | 1 CARGO BARGE                              |
| 1 VOSTOK FISH FACTORY SHIP AT POSITION 45    | 1 FLOATING CRANE                           |
| 2 FLOATING DRYDOCKS ON WAYS                  | 4 UNIDENTIFIED SMALL VESSELS (1 ON WAY 51) |

25X1D

25X1D

LENINGRAD SHIPYARD SUDOMEKH 196

25X1D

25X1A

STATUS: OPERATIONAL

REMARKS:

THE CONSTRUCTION STATUS OF THE SHOP BUILDING ADDITION WAS UNDETERMINED. THE ALPHA SSN WAS STILL BETWEEN THE TYPE-1 APL/YR AND THE TYPE-2 APL/YR AT POSITION 35, AND CANVAS PANELS COVERED ITS STERN AND A PORTION OF THE FOREDECK. THE PROBABLE REACTOR ACCESS HOUSE OBSERVED ON THE ALPHA IN [REDACTED]

55

25X1D

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KH-4 MISSION 1111-1

SOVIET UNION  
INDUSTRY

25X1D

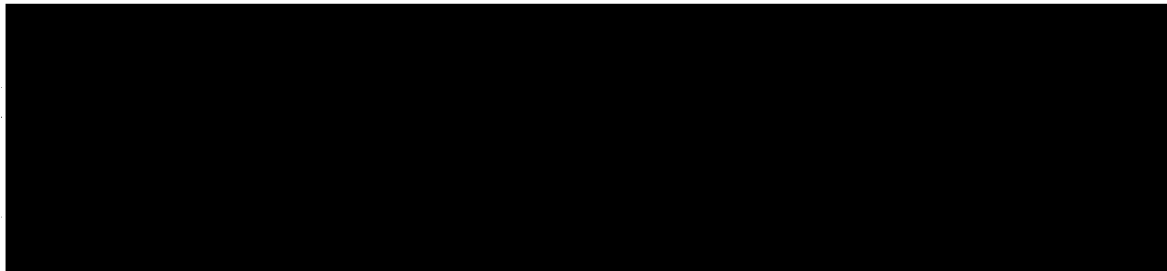
[REDACTED] WAS PROBABLY STILL IN PLACE. A MEDIUM SS, PROBABLY SCAFFOLDED, WAS IN THE F DOCK AT POSITION 30 AND AN EMPTY DROP-STERN TRANSPORTER DOCK WAS OUTBOARD OF THE F DOCK. A MEDIUM SS WAS ALSO BEHIND FLOATING SCREENS AT POSITION 32 WHERE AN F SS WAS OBSERVED IN [REDACTED]. SEVERAL PIECES OF HIGHLY REFLECTIVE PLATE WERE ON THE QUAY AT POSITIONS 29 AND 30.

25X1D

NAVAL ORDER OF BATTLE:

- |  |                             |
|--|-----------------------------|
| 1 A SSN AT POSITION 35                               | 1 RECTANGULAR SUPPORT BARGE |
| 2 MEDIUM SS (1 IN F DOCK, 1 AT POSITION 32)          | 1 POSS CATAMARAN BARGE      |
| 2 APL/YR (1 TYPE-1, 1 TYPE-2) AT POSITION 35         | 1 FREIGHTER                 |
| 1 PROB YR AT POSITION 31                             | 2 CARGO BARGES              |
| 1 DROP-STERN TRANSPORTER DOCK OUTBOARD OF THE F DOCK | 2 FLOATING CRANES           |

25X1D



25X1D

LENINGRAD SHIPYARD ZHDANOV 190

25X1D

STATUS: OPERATIONAL

25X1A

REMARKS:

CONSTRUCTION WAS CONTINUING ON THE BUILDING SW OF THE LARGE FABRICATION BUILDING.

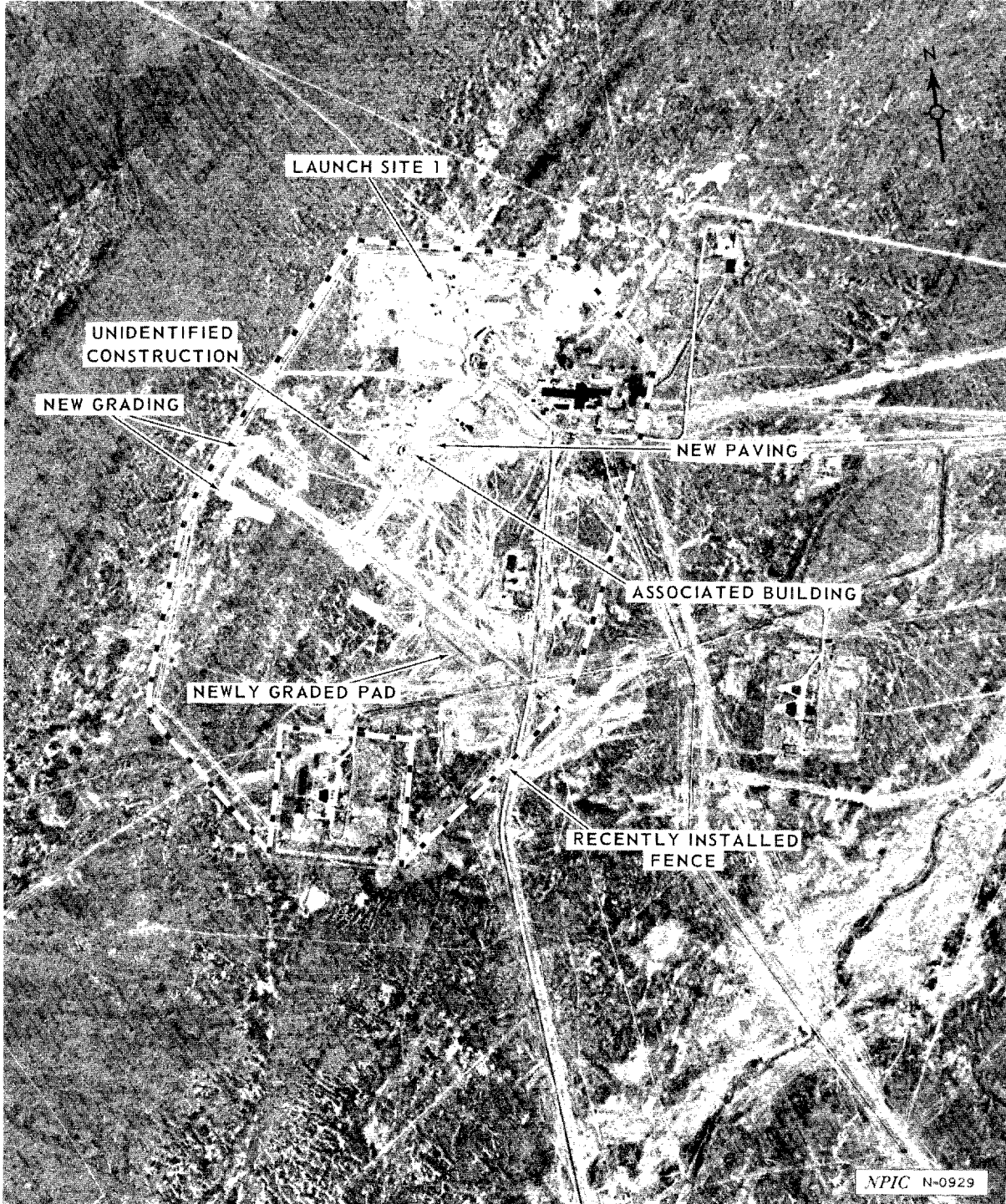
NAVAL ORDER OF BATTLE:

- |  |   |
|--|---|
| 3 KRESTA CLGM AT POSITIONS 54, 55 AND 56       | 3 PYATIDESYATILETIYE CARGO SHIPS (1 ON WAY 64S) |
| 1 PROB KANIN DDG AT POSITION 54                | 1 PROB SECURITY SCREEN CARGO SHIP               |
| 1 PROB KRUPNYY DDGS AT POSITION 58             | 2 FLOATING CRANES                               |
| 1 PROB LARGE COMBATANT HULL ON BUILDINGWAY 64C | 3 UNIDENTIFIED SMALL VESSELS                    |

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25X1D

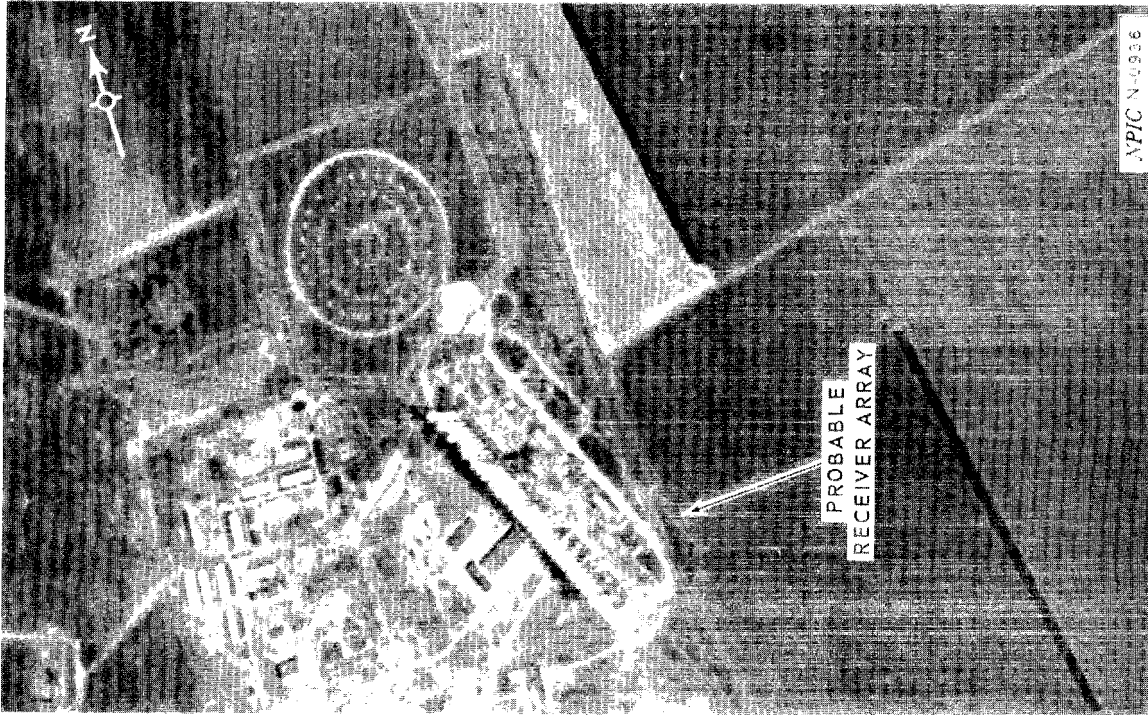
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**Attachments**



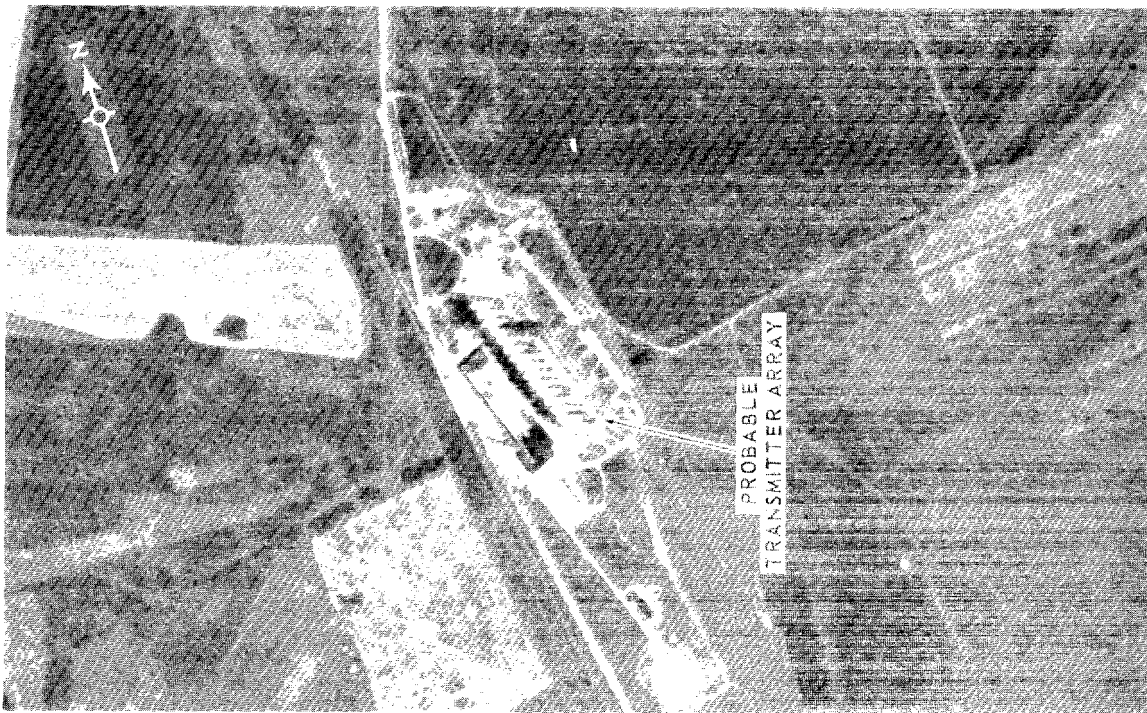
NEW CONSTRUCTION IN THE RECENTLY SECURED AREA OF LAUNCH COMPLEX F, SARY-SHAGAR MIC, USSR

25X1A



25X1A

UNCLASSIFIED PROBABLE OF SYSTEM W/C, URSE





DEPLOYED ICBM COMPLEXES, TYURATAM MTC, AND PLESETSK MSC

| COMPLEX            | SS-7                   | SS-8            | SS-9      | SS-11     | SS-13     | OTHER      | *TOTAL   | LAUNCH GROUPS | LAUNCHERS        |                      |        |   |
|--------------------|------------------------|-----------------|-----------|-----------|-----------|------------|----------|---------------|------------------|----------------------|--------|---|
|                    | TYPE IIA, B & D & IIIA | TYPE IIC & IIIB | TYPE IIIC | TYPE IIID | TYPE IIIE | UNDET TYPE |          |               | NEW THIS MISSION | DROPPED THIS MISSION |        |   |
|                    | SITES                  |                 | LAUNCHERS |           |           |            |          |               | IDENTIFIED       | INCLUDED IN TOTAL    |        |   |
|                    | LAUNCHERS              |                 | LAUNCHERS |           |           |            | COMPLETE |               |                  |                      |        |   |
| ★ ALEYSK           |                        |                 | 30        |           |           |            | 30       | 5             | 4                |                      |        |   |
| ★ DOMBAROVSKIY     |                        |                 | 65        |           |           |            | 65       | 11            | 7                | 3                    |        |   |
| DROVYANAYA         | 6                      | 15              |           | 50        |           |            | 65       | 5             | 5                |                      |        |   |
| GLADKAYA           | 3                      | 7               |           | 60        |           |            | 67       | 6             | 6                |                      |        |   |
| ★ IMENI GASTELLO   |                        |                 | 54        |           |           |            | 54       | 9             | 7                | 1                    |        |   |
| ITATKA             | 3                      | 6               |           |           |           |            | 6        |               |                  |                      |        |   |
| ★ KARTALY          |                        |                 | 42        |           |           |            | 42       | 7             | 5                | 3                    |        |   |
| ★ KOSTROMA         | 7                      | 15              |           | 90(#1)    |           |            | 105(#1)  | 9(#1)         | 8                | (#1)                 |        |   |
| ★ KOZELSK          |                        | 5               | 12        | 110       |           |            | 122      | 11            | 10               |                      |        |   |
| NOVOSIBIRSK        | 5                      | 12              |           |           |           |            | 12       |               |                  |                      |        |   |
| OLOVYANNAYA        | 3                      | 9               |           | 90        |           |            | 99       | 9             | 9                |                      |        |   |
| OMSK               |                        | 1               | 3         |           |           |            | 3        |               |                  |                      |        |   |
| ★ PERM             | 6                      | 13              |           | 80        |           |            | 93       | 8             | 7                |                      |        |   |
| ★ SHADRINSK        | 3                      | 9               |           |           |           |            | 9        |               |                  |                      |        |   |
| SVOBODNY           | 8                      | 17              |           | 60        |           |            | 77       | 6             | 6                |                      |        |   |
| ★ TATISHCHEVO      |                        |                 |           | 120       |           |            | 120      | 12            | 12               |                      |        |   |
| ★ TEYKOVO          | 6                      | 12              |           | 60        |           |            | 92       | 8             | 6                |                      |        |   |
| ★ TYUMEN           |                        | 2               | 4         |           |           |            | 4        |               |                  |                      |        |   |
| ★ UZHUR            |                        |                 | 60        |           |           |            | 60       | 10            | 8                | 2                    |        |   |
| ★ VERKHNYAYA SALDA | 9                      | 20              |           |           |           |            | 20       |               |                  |                      |        |   |
| ★ YEDROVO          | 8                      | 18              |           | 111       |           |            | 129      | 12            | 10               | 3                    |        |   |
| ★ YOSHKAR-OLA      | 6                      | 12              |           |           | 64(#1)    |            | 76(#1)   | 8             | 2                |                      |        |   |
| ★ YURYA            | 11                     | 25              |           |           |           |            | 25       |               |                  |                      |        |   |
| ★ ZHANGIZ-TOBE     |                        |                 | 52        |           |           |            | 52       | 9             | 6                |                      |        |   |
| TOTALS             | 84                     | 190             | 8         | 19        | 303       | 851(#1)    | 64(#1)   | 1427(#2)      | 145(#1)          | 118                  | 12(#1) | 1 |

|                |  |    |  |  |  |
|----------------|--|----|--|--|--|
| ★ TYURATAM MTC | TOTAL LAUNCHERS INCLUDED 17 SSM R&D SPACE LAUNCH POSITIONS | 73 |  |  |  |
| PLESETSK MSC   | TOTAL LAUNCHERS INCLUDES 8SSM R&D SPACE LAUNCH POSITIONS   | 33 |  |  |  |

\*TOTAL DOES NOT INCLUDE THE TRAINING SITES AT THE 17 SINGLE-SILO COMPLEXES NOR THE TYPE IIID LAUNCH SITES AT THE DERAZHNYA MRBM COMPLEX AND THE PERVOMAYSEK IRBM COMPLEX.

★ COVERED THIS MISSION (#) POSSIBLE (NOT INCLUDED IN COUNT) PARENS INDICATE POSSIBLE LAUNCHERS AND ARE NOT INCLUDED IN COUNT

\*\*PLESETSK IS NOW CONSIDERED SOLELY AS A MISSILE AND SPACE CENTER. THE SS-7 AND SS-8 LAUNCHERS ARE NO LONGER COUNTED IN THE TOTALS BY THE DEPLOYMENT WORKING GROUP, GMAIC, AND, CONSEQUENTLY, ARE NO LONGER INCLUDED IN THE DEPLOYMENT CHART.



Table 2. SOVIET MRBM AND IRBM DEPLOYMENT

| GEOGRAPHIC AREA | SOFT MRBM LAUNCH SITES | SOFT IRBM LAUNCH SITES | HARD MRBM LAUNCH SITES | HARD IRBM LAUNCH SITES | TOTAL LAUNCH SITES | TOTAL LAUNCH POSITIONS |
|-----------------|------------------------|------------------------|------------------------|------------------------|--------------------|------------------------|
| WESTERN         | 101                    | 10*                    | 18                     | 10                     | 139                | 544**                  |
| CAUCASUS        | 3                      |                        | 2                      | 3                      | 8                  | 29                     |
| CENTRAL ASIA    | 2                      | 1                      | 1                      | 3                      | 7                  | 25                     |
| FAR EASTERN     | 6                      | 1                      |                        | 1                      | 8                  | 35                     |
| TOTALS          | 112                    | 12                     | 21                     | 17                     | 162                | 633**                  |

Totals do not include 103 fixed field-type sites with total of 385 launch positions and one launch facility at Sovetskaya Gavan

\*One has only 2 pads

\*\*Totals do not include the 80 inactive launch positions at Gvardeysk, Simferopol, Barano-Orenburgskoye, Balta, Uman (2 sites), Paplaka, Mukachevo, Derazhnya (2 sites), Ugolnyy, Zhitomir (1 site) and Kamenets Podolskiy Complexes

Table 3. TYPE IIID LAUNCH SITES AT MR/IRBM COMPLEXES

| COMPLEX     | SITES * | LAUNCH GROUPS |          | LAUNCHERS        |                      |
|-------------|---------|---------------|----------|------------------|----------------------|
|             |         | IDENTIFIED    | COMPLETE | NEW THIS MISSION | DROPPED THIS MISSION |
| * DERAZHNYA | 60      | 6             | 3        | 8                |                      |
| PERVOMAYSK  | 55      | 6             | 1        |                  |                      |
| Totals*     | 115     | 12            | 4        | 8                |                      |

\*Totals do not include training sites

Parens indicate possible site and are not included in count

★ Covered this mission

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TOP SECRET

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TOP SECRET