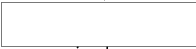


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NPIC/R-880/64
October 1964



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PHOTOGRAPHIC INTERPRETATION REPORT

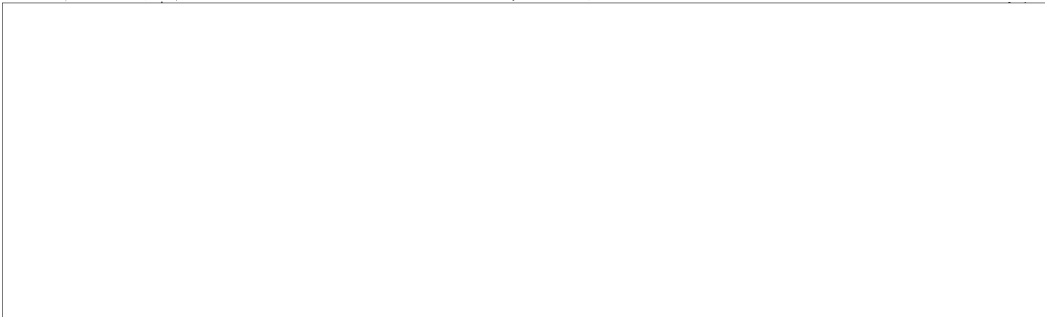
**OAK - PART I
MISSION 4011
24-27 SEPTEMBER 1964**



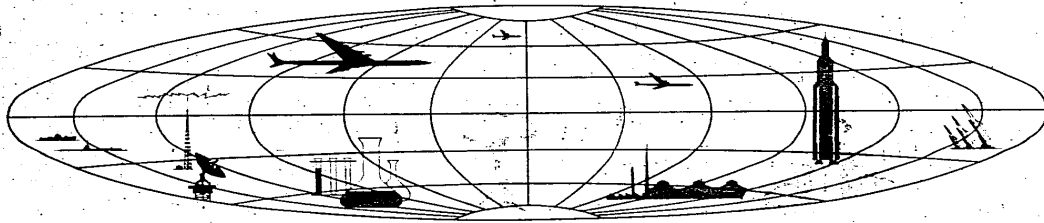
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GROUP 1
Excluded from automatic
downgrading and declassification

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TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64

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25X1

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MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64

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ZSA1OAK-PART I
MISSION 4011PREFACE

THIS IS THE FIRST OF AN ESTIMATED TWO DAILY OAK REPORTS BASED ON MISSION 4011 AND DEALING WITH THE HIGHEST-PRIORITY INTELLIGENCE ITEMS APPEARING IN THE COMOR TARGET LIST. THIS REPORT, COVERING THE OAK REPORTING PERIOD 0800 TO 1500, 2 OCTOBER 1964, PRESENTS INFORMATION ONLY ON THOSE COMOR TARGETS OBSERVED ON THE PHOTOGRAPHY.

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

SELECTED PHOTOGRAPHIC REFERENCES FOR EACH TARGET OBSERVED AND REPORTED FOLLOW THE DESCRIPTION OF THE TARGET. PASS NUMBERS ARE SUFFIXED WITH EITHER AN A FOR ASCENDING (SOUTH-TO-NORTH) OR D FOR DESCENDING (NORTH-TO-SOUTH). FRAMES AND INDEX NUMBERS ARE INDICATED BY THE LETTERS FR. WHEN MORE THAN ONE FRAME/INDEX NUMBER IS LISTED, STEREO COVERAGE IS INDICATED. X AND Y COORDINATES ARE LISTED FOR THE BEST FRAME OF PHOTOGRAPHY. SYMBOLS INDICATING CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON THE PHOTOGRAPHY ARE AS FOLLOWS -- C (CLEAR), SC (SCATTERED CLOUDS), HC (HEAVY CLOUDS), H (HAZE), CS (CLOUD SHADOW), SD (SEMIDARKNESS), O (OBLIQUITY), S (SNOW), PQ (POOR IMAGE QUALITY).

OAK RECIPIENTS ARE CAUTIONED THAT THE INITIAL SCAN OF PHOTOGRAPHY FROM MISSION 4011 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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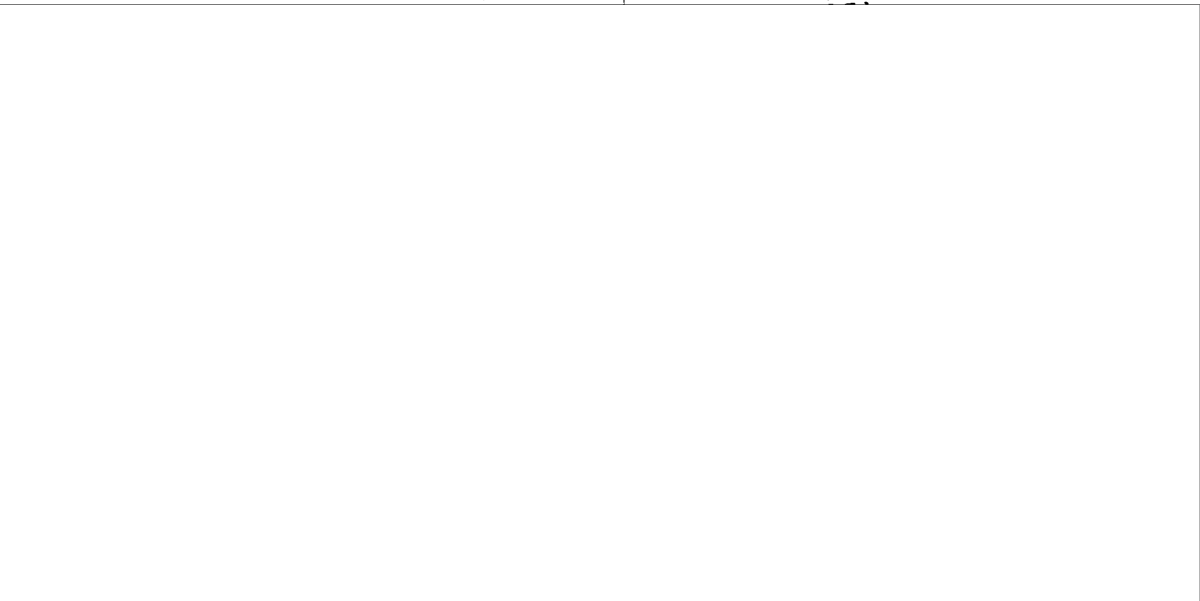
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HIGHLIGHTS

THE OVERALL PHOTOGRAPHIC QUALITY OF MISSION 4011 IS FAIR. IMAGERY IS SOFT IN APPEARANCE AND THE PHOTOGRAPHY IN GENERAL IS OF LOW CONTRAST. QUALITY ENLARGEMENTS CANNOT BE MADE MUCH BEYOND 20 DIAMETERS, AS COMPARED TO 50 DIAMETERS AND ABOVE ON SOME PREVIOUS MISSIONS.

1. ZHANGIZ-TOBE ICBM COMPLEX [REDACTED] THREE NEW LAUNCH AREAS (C, D, AND E) ARE IDENTIFIED.



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TOP SECRET CHESS RUFF

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5. TYURATAM INSTRUMENTATION SITE [REDACTED]
SITE CONSISTS OF A PROBABLE INSTRUMENTATION/COMMUNICATIONS AREA.
A PROBABLE CONTROL AND SUPPORT AREA LOCATED IMMEDIATELY EAST
CONTAINS, AMONG OTHERS, TWO BUILDINGS WITH POSSIBLE DOMES.

6. MYS ZHELANIYA TALL KING RADAR [REDACTED]
A TWIN TALL KING RADAR SITE IS IDENTIFIED AT MYS ZHELANIYA.

7. AMDERMA TALL KING RADAR [REDACTED]
A POSSIBLE TALL KING RADAR SITE IS IDENTIFIED AT AMDERMA.

STATUS OF COMOR TARGET READOUT

A TOTAL OF 120 COMOR TARGETS WERE OBSERVED IN THE CURRENT REPORTING
PERIOD AND ARE COVERED BY THIS REPORT.

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25X1
25X1

MISSILES

[REDACTED] DROVYANAYA ICBM LAUNCH AREA A (SITE 1) UR 5125N 11300E

25X1

LAUNCH AREA COVERED BY GOOD-QUALITY
NON-STEREO PHOTOGRAPHY.

NO SIGNIFICANT CHANGE [REDACTED]
AND NO NEW CONSTRUCTION APPARENT.

25X1

AT LEAST 15 VEHICLES/PIECES OF EQUIPMENT OBSERVED.



25X1

[REDACTED] DROVYANAYA ICBM LAUNCH AREA B (SITE 2) UR 5125N 11304E

25X1

ONLY THE RIM FACILITY IS VISIBLE. IT SHOWS
NO APPARENT CHANGE [REDACTED]

25X1
25X1

[REDACTED] DROVYANAYA ICBM LAUNCH AREA D (SITE 3) UR 5120N 11301E

25X1

LAUNCH SITE COVERED BY NON-STEREO PHOTOGRAPHY.

NO SIGNIFICANT CHANGES OBSERVED [REDACTED]

25X1
25X1

NO NEW CONSTRUCTION OBSERVED.



25X1

[REDACTED] DROVYANAYA ICBM LAUNCH AREA E (SITE 5) UR 5122N 11250E

25X1

IDENTIFICATION ONLY.



25X1

[REDACTED] DROVYANAYA ICBM LAUNCH AREA F (SITE 6) UR 5120N 11254E

25X1

SITE COVERED BY GOOD-QUALITY STEREO PHOTOGRAPHY.
IT APPEARS TO BE IN THE LATE STAGE OF CONSTRUCTION.



25X1

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THE SITE HAS BEEN BACKFILLED. TWO MISSILE READY BUILDINGS UNDER CONSTRUCTION WITHIN THE SITE ARE CONNECTED TO THE LOOP ROAD BY SHORT ACCESS ROADS.

CONSTRUCTION ACTIVITY CONTINUES IN THE AREA.

NOVOSIBIRSK ICBM LAUNCH AREA A (SITE 2) UR 5519N 08309E IDENTIFICATION ONLY.

ZHANGIZ-TOBE ICBM COMPLEX UR 4912N 08110E

NEWLY IDENTIFIED LAUNCH AREA C, PREVIOUSLY CARRIED AS AN UNIDENTIFIED AREA, IS LOCATED 3.3 NM WSW OF THE COMPLEX SUPPORT FACILITY AT 49-11N 081-06E. CONSTRUCTION ACTIVITY WAS OBSERVABLE HERE AS EARLY JUN 64. THE SITE CAN BE NEGATED FEB 64. SITE IS NOW IN A MID-STAGE OF CONSTRUCTION. IT CONTAINS A SILO UNDER CONSTRUCTION WITHIN AN EXCAVATION.

NEWLY IDENTIFIED LAUNCH AREA D IS 7.3 NM SW OF THE COMPLEX SUPPORT FACILITY AT 49-07N 081-52E. IT CAN BE NEGATED JUN 64. THE SITE IS IN A MID-STAGE OF CONSTRUCTION AND CONSISTS OF A SILO UNDER CONSTRUCTION WITHIN A U-SHAPED EXCAVATION.

NEWLY IDENTIFIED LAUNCH AREA E IS 11.1 NM WEST OF THE COMPLEX SUPPORT FACILITY AT 49-12N 080-53E. THE SITE CAN BE NEGATED JUN 64. THE SITE IS NOW IN AN EARLY STAGE OF CONSTRUCTION. ACTIVITY IS DISCERNIBLE WITHIN THE U-SHAPED EXCAVATION.

(ATTACHMENTS 1-3)

TOP SECRET CHESS RUFF

25X1

25X1

25X1

25X1

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25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

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25X1
25X1

[REDACTED]

25X1

[REDACTED] ZHANGIZ-TOBE ICBM LAUNCH AREA A (SITE 1) UR 4911N 08100E

25X1

LAUNCH AREA HAS PROGRESSED TO A MID-STAGE OF CONSTRUCTION SINCE [REDACTED] JUN 64.

25X1

A PROBABLE CONSTRUCTION CRANE IS WITHIN THE U-SHAPED EXCAVATION.

(ATTACHMENT 4)

[REDACTED]

25X1

[REDACTED] ZHANGIZ-TOBE ICBM LAUNCH AREA B (SITE 2) UR 4915N 08059E

25X1

LAUNCH AREA HAS PROGRESSED TO A MID-STAGE OF CONSTRUCTION SINCE [REDACTED] JUN 64.

25X1

A SILO IS UNDER CONSTRUCTION WITHIN U-SHAPED EXCAVATION. SCATTERED CLOUDS PREVENT STEREO ANALYSIS.

(ATTACHMENT 5)

[REDACTED]

25X1

[REDACTED] ZHANGIZ-TOBE ICBM SUPPORT FACILITY UR 4912N 08110E

25X1

ABOUT 35 BUILDINGS HAVE BEEN ADDED TO THE COMPLEX SUPPORT FACILITY SINCE [REDACTED] JUN 64. THE CONSTRUCTION ACTIVITY PROBABLY RELATED TO THE COMPLEX SUPPORT FACILITY AND ABOUT 3,000 FT EAST OF IT IS NOT COVERED.

25X1

(ATTACHMENT 6)

[REDACTED]

25X1

[REDACTED]

25X1

TOP SECRET CHESS RUFF

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25X1
25X1

[REDACTED] BARANO-ORENBURGSKOYE MRBM LAUNCH SITE UR 4419N 13130E

IDENTIFICATION ONLY.

25X1

25X1

[REDACTED] LUTSK MRBM LAUNCH SITE 2 UR 5050N 02503E

25X1

NO NEW CONSTRUCTION WITHIN LAUNCH SITE SINCE [REDACTED] JUN 64.

25X1

AN ERECTOR IS ON ONE PAD AND MISSILE STANDS ARE ON THE REMAINING 3.

VEHICLES ARE PARKED ON THE APRON BETWEEN 2 GARAGES IN THE TECHNICAL SECTION AND ON AN APRON [REDACTED]

25X1

25X1

[REDACTED] LUTSK MRBM LAUNCH SITE 1 UR 5046N 02504E

25X1

NO NEW CONSTRUCTION IS EVIDENT AT LAUNCH SITE SINCE [REDACTED] JUL 63.

25X1

NO ERECTORS OBSERVED ON THE PADS. HOWEVER, EACH HAS A PROBABLE MISSILE STAND.

TWO PROBABLE VEHICLES ARE PARKED ON THE APRONS IN FRONT OF THE GARAGES IN THE TECHNICAL SECTION. A POSSIBLE MISSILE TRANSPORTER IS OBSERVED ON A ROAD LEADING TO ONE OF THE 2 PARALLEL BUILDINGS IN [REDACTED]

25X1

25X1

[REDACTED] BAYRAM-ALI IRBM LAUNCH SITE UR 3746N 06212E

25X1

NO APPARENT CHANGE SINCE [REDACTED] SEP 64.

25X1

NO ACTIVITY OBSERVED.

25X1

25X1

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25X1



BOLSHAYA KAMENKA IRBM LAUNCH SITE UR 5145N 04541E

25X1

NO APPARENT CHANGE SINCE [REDACTED] SEP 64.

25X1

THE LAUNCH SITE AND SITE SUPPORT FACILITY REMAIN INCOMPLETE.

NO VEHICLES DISCERNIBLE IN THE LAUNCH AREA.



25X1



SARY-SHAGAN POSS INSTRUMENTATION SITE 14 UR 4707N 06910E

25X1

SITE IS COVERED BY GOOD-QUALITY STEREO PHOTOGRAPHY. IT CONSISTS OF AN OPERATIONS AND SUPPORT AREA, AN INTERFEROMETER WITH 1,000 FT CROSS ARMS, AND 2 GRADED-EARTH AIRSTRIPS (6,200 X 420 FT ENE/WSW AND 3,000 X 280 FT NW/SE). THE OPERATIONS AND SUPPORT AREA CONTAINS 19 BUILDINGS, INCLUDING A BUILDING APPROXIMATELY 220 X 130 FT WITHIN A SECURED AREA AND A POSSIBLE RADAR MOUND AND 4 ADDITIONAL BUILDINGS JUST OUTSIDE THE SECURED AREA. DETAILS OF THE ROOF CONFIGURATION OF THE LARGE BUILDING ARE NOT DISCERNIBLE BECAUSE OF POOR IMAGE QUALITY. AT LEAST 6 VEHICLES ARE NOTED AT THE SITE.

THE INTERFEROMETER APPEARS COMPLETE WITH ELEMENTS EMPLACED, EXCEPT FOR MINOR CONSTRUCTION OBSERVED AT THE CENTER OF THE SITE. SINCE

[REDACTED] JUN 64, BOTH AIRSTRIPS HAVE RECEIVED ADDITIONAL PREPARATION. HOWEVER, THE SHORTER STRIP STILL APPEARS UNSERVICEABLE. TWO LANDING TEES ARE NOTED AT THE ENE/WSW STRIP.

25X1



25X1



GORKIY ARMT PLT NOVOYE SORMOVO/STALIN 92 UR 5620N 04354E

25X1

IDENTIFICATION ONLY.



25X1



25X1

TOP SECRET CHESS RUFF

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25X1
25X1



UFA AIRCRAFT ENGINE PLANT B-26 UR 5447N 05604E

25X1

NO INDICATIONS OF MISSILE-RELATED OR OTHER ACTIVITY AT THIS PLANT. RAIL SPUR SERVING THE ASSEMBLY BUILDING AT WEST END OF INSTALLATION IS APPARENTLY BEING REMOVED. SMALL AMOUNT OF GROUND SCARRING/PILED EARTH IS EVIDENT NEAR CENTER OF PLANT AREA.



25X1



STERLITAMAK STATIC TEST FACILITY UR 5341N 05558E

25X1

NO APPARENT CHANGE SINCE [REDACTED] SEP 64.

25X1

THE SECOND TEST CELL REPORTED AS NEARLY COMPLETED NOW APPEARS TO BE A COMPLETED SECONDARY OR STANDBY FACILITY.

NO TEST ACTIVITY, MISSILE COMPONENTS, OR EQUIPMENT OBSERVED.



25X1



MIKHAYLOVKA SENSITIVE OPERATIONS COMPLEX UR 4849N 03217E

25X1

NO APPARENT CHANGE SINCE [REDACTED] SEP 64.

25X1

THE 12 LONG RAILROAD CARS OBSERVED [REDACTED], SEP 64, ARE STILL PRESENT.

25X1



25X1

25X1



GUBA SAYDA PROB NAVAL MISSILE STORAGE UR 6915N 03320E

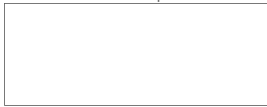
25X1

NO APPARENT CHANGE SINCE [REDACTED] JUN 64, IN CLOUD-FREE AREAS.

25X1



25X1



25X1

TOP SECRET CHESS RUFF

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25X1

[REDACTED] GUBA SAYDA SUBMARINE BASE UR 6915N 03321E

25X1

VESSELS -- 9 SS WITH APPROXIMATELY 280 FT LOA
VISIBLE, 2 AUXILIARIES, AND 3 UNIDENTIFIED OBJECTS.

PHOTOGRAPHIC QUALITY PRECLUDES DETERMINATION OF
MISSILE LAUNCHING CONFIGURATION.

[REDACTED]

25X1

[REDACTED] VLADIMIR SUBMARINE BASE UR 4355N 13528E
IDENTIFICATION ONLY.

25X1

[REDACTED]

25X1

[REDACTED] ANTIPINSKOYE SAM ACTIVITY UR 5254N 11332E
NO APPARENT CHANGE SINCE [REDACTED] SEP 64.

25X1

25X1

25X1

[REDACTED] OLENEGORSK SUSP AMM ASSOCIATED ACTIVITY UR 6806N 03355E
IDENTIFICATION ONLY.

25X1

[REDACTED]

25X1

[REDACTED] DJAKARTA SAM SITE TJILINTJING A06-2 ID 0605S 10656E
IDENTIFICATION ONLY.

25X1

[REDACTED]

25X1

[REDACTED] OLENEGORSK SAM SITE B11-0 UR 6804N 03408E

25X1

THIS IS A COMPLETED CATEGORY I SA-0 SITE. LAUNCH
POSITIONS APPEAR OCCUPIED AND ARE PROBABLY CANVAS
COVERED. THREE HOLD POSITIONS ARE PROBABLY
CANVAS COVERED. APPROXIMATELY 20 MISCELLANEOUS
VEHICLES/VANS ARE PARKED ADJACENT TO A BUILDING

[REDACTED]

25X1

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WHICH IS PART OF THE ON-SITE SUPPORT JUST SOUTH OF THE SITE. THREE PROBABLE BUILDINGS, 4 PROBABLE TENTS, AND 2 PARALLEL ROWS OF CANVAS-COVERED POSSIBLE VEHICLES/VANS MAKE UP THE REST OF THE ON-SITE SUPPORT. DETAILS OF THE CENTRAL GUIDANCE AREA ARE NOT DISCERNIBLE. THREE UNIDENTIFIED VEHICLES/VANS ARE PARKED JUST EAST OF THE CONTROL/GUIDANCE AREA.

[REDACTED]

SEVERODVINSK SAM SITE B02-3 UR 6446N 03959E

IDENTIFICATION ONLY.

[REDACTED]

TYURATAM MSL TEST CENTER SAM SITE B21A-2 UR 4542N 06320E

IDENTIFICATION ONLY.

[REDACTED]

MOSCOW SAM SITE C16-1 UR 5522N 03758E

TWO U-SHAPED REVETMENTS HAVE BEEN CONSTRUCTED ON ONE OF THE RIB ROADS ON THE EAST SIDE OF THE LAUNCH AREA SINCE [REDACTED], JUN 64. THE FIRST EVIDENCE OF REVETMENT CONSTRUCTION WAS OBSERVED ON [REDACTED] JUN 64.

AT LEAST 6 PROBABLE MISSILES OBSERVED ON THE RIB ROADS WITHIN THE LAUNCH AREA. DENSE VEGETATION PRECLUDES THE IDENTIFICATION OF ADDITIONAL EQUIPMENT.

[REDACTED]

KALININGRAD SAM SITE B02-2 UR 5453N 02033E

SITE IS OCCUPIED WITH PROBABLE MISSILE LAUNCHERS. CENTRAL GUIDANCE AREA IS OCCUPIED.

[REDACTED]

25X1

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25X1

25X1

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TOP SECRET CHESS RUFF

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25X1

PRESENCE OR ABSENCE OF MISSILES AND IDENTIFICATION OF GUIDANCE EQUIPMENT CANNOT BE DETERMINED DUE TO POOR IMAGE QUALITY.

APPROXIMATELY 4 BUILDINGS LOCATED IMMEDIATELY NE OF THE SITE PROBABLY SERVE AS SITE SUPPORT.

25X1

AL ISKANDARIYAH SAM SITE B05-2 EG 3118N 03003E

25X1

SITE IS POSSIBLY OCCUPIED.

NO EQUIPMENT OBSERVED.

A SAM SUPPORT FACILITY IS LOCATED ADJACENT TO THE SAM SITE AND HAS NO EQUIPMENT DISCERNIBLE.

25X1

MURMANSK SUSPECT SAM SITE C02-3 UR 6923N 03328E

25X1

IDENTIFICATION ONLY.

25X1

25X1

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25X1
25X1

AIR FACILITIES

THE TERM LARGE FIGHTER IN AIRFIELD REPORTS REFERS TO AIRCRAFT LARGER THAN FARMER. THE TERM SMALL FIGHTER REFERS TO AIRCRAFT IN THE FAGOT-FARMER SIZE RANGE.

[REDACTED] BARANOVICHI AIRFIELD UR 5306N 02603E

NO APPARENT CHANGE SINCE [REDACTED] APR 63.

AIRCRAFT -- 8 BLINDER (3 IN LOADING AREA, 3 ON HARDSTANDS, AND 2 IN MAINTENANCE AREA), 20 BADGER (12 ON PARKING RAMP, 6 ON HARDSTANDS OFF TAXIWAY, 2 IN MAINTENANCE AREA), ONE BEAGLE IN SECURED STORAGE AREA NORTH OF AIRFIELD, AND 14 PROBABLE FAGOT/FRESCO, 21 PROBABLE DELTA-WING FIGHTERS, 2 POSSIBLE DELTA-WING FIGHTERS, AND 6 LARGE SWEEP-WING FIGHTERS ON SW PARKING RAMP.

25X1
25X1

[REDACTED] KALININGRAD/PROVEREN AIRFIELD UR 5446N 02025E

NO APPARENT CHANGE SINCE [REDACTED] JUN 64.

AIRCRAFT -- 14 BLINDER (13 ON WEST PARKING RAMP AND ONE ON LINK TAXIWAY), 23 PROBABLE BLINDER ON EAST PARKING RAMP, 3 BADGER ON WEST PARKING RAMP AND LINK TAXIWAY, 2 CAT/CUB ON LINK TAXIWAY, AND ONE POSSIBLE SMALL STRAIGHT-WING NEAR WEST END OF WEST PARKING RAMP.

25X1
25X1
25X1

[REDACTED] SEVEROMORSK AIRFIELD UR 6901N 03325E

ONLY NORTHERN TIP OF RUNWAY COVERED.

AIRCRAFT -- NONE OBSERVED.

25X1
25X1

25X1

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RAMENSKOYE AIRCRAFT EXPERIMENTAL PLANT UR 5535N 03807E

AIRCRAFT -- ONE BOUNDER, 6 BISON, 7 LARGE HELICOPTERS, AND 9 PROBABLE LARGE HELICOPTERS IN PARKING AREA WEST OF RUNWAY. ONE BISON ON TAXIWAY WEST OF THE AIRFIELD. THREE BADGER/CAMEL, 8 SMALL SWEEP-WING FIGHTERS, ONE PROBABLE COOKPOT, ONE POSSIBLE COKE, ONE CAB, 2 CRATE, 5 MEDIUM 4-ENGINE STRAIGHT-WING, 2 LIGHT STRAIGHT-WING, 2 LARGE HELICOPTERS, AND 9 POSSIBLE SMALL HELICOPTERS ON PARKING APRON AND ADJACENT FIELD WEST OF MAIN RUNWAY. FOUR PROBABLE BEAGLE, 2 POSSIBLE FIGHTERS, ONE POSSIBLE TU-134, 2 CLASSIC, 10 COOT, AND ONE COOKPOT ON NORTHERN SECTION OF MAIN PARKING APRON. THREE BEAGLE, ONE PROBABLE BEAGLE, 23 SMALL SWEEP-WING FIGHTERS, 2 COOT, 2 CAB, 3 LIGHT STRAIGHT-WING, 14 SMALL POSSIBLE AIRCRAFT, AND 5 SMALL UNIDENTIFIED AIRCRAFT ON CENTRAL SECTION OF MAIN PARKING APRON. THREE BLINDER, ONE BEAR, 4 BADGER/CAMEL/COOKPOT, 7 BADGER/CAMEL, ONE BEAGLE, ONE DERELICT PROBABLE BULL, 4 FIDDLER, ONE POSSIBLE COOKPOT, AND ONE CLEAT ON SOUTHERN SECTION OF MAIN PARKING APRON. THREE BLINDER, 11 BADGER/CAMEL, 27 LARGE FIGHTERS, AND 8 SMALL FIGHTERS ON CENTRAL PARKING APRONS WEST OF MAIN PARKING APRON.

KRASNOVODSK AIRFIELD UR 4004N 05300E

AIRCRAFT -- 5 BEAGLE, 29 LARGE SWEEP-WING FIGHTERS, 2 PROBABLE LARGE SWEEP-WING FIGHTERS, 52 SMALL SWEEP-WING FIGHTERS, 3 PROBABLE SMALL SWEEP-WING FIGHTERS, 2 PROBABLE COOT, 9 CAB, ONE LIGHT STRAIGHT-WING, AND 14 SMALL STRAIGHT-WING.

NO NEW ELECTRONICS FACILITIES OBSERVED.

WONSAN AIRFIELD KN 3909N 12729E

NO RADAR OR COMMUNICATIONS SITE OBSERVED.

25X1

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AIRCRAFT -- 22 FAGOT/FRESCO AND 33 POSSIBLE FAGOT/FRESCO.

AFRIKANDA AIRFIELD UR 6727N 03247E

NO ELECTRONICS OR COMMUNICATIONS FACILITIES OBSERVED.

AIRCRAFT -- 18 SMALL SWEPT-WING FIGHTERS, 4 PROBABLE SMALL SWEPT-WING FIGHTERS, AND ONE PROBABLE CRATE.

MARIENGF AIRFIELD UR 5452N 02011E

NO APPARENT CHANGE SINCE SEP 61, ON 65 PERCENT OF AIRFIELD COVERED BY PHOTOGRAPHY.

AIRCRAFT -- 20 BEAGLE ON HARDSTANDS, 2 BEAGLE IN MAINTENANCE AREA, ONE CAT/CUB ON SW ALERT RAMP, ONE POSSIBLE SMALL UNIDENTIFIED ON SW HARDSTAND NEXT TO SW ALERT RAMP.

GABROVNITSA AIRFIELD BU 4333N 02316E

NO ELECTRONIC OR COMMUNICATIONS FACILITIES OBSERVED.

AIRCRAFT -- ONE POSSIBLE LIGHT STRAIGHT-WING ON EAST HARDSTAND.

WARSAW/BOERNEROWO AIRFIELD PO 5216N 02055E

ILS SYSTEM LOCATED ON WEST APPROACH TO E/W RUNWAY.

AIRCRAFT -- 12 PROBABLE FAGOT/FRESCO, 3 POSSIBLE FAGOT/FRESCO, 13 SMALL STRAIGHT-WING, ONE SMALL SWEPT-WING, ONE LIGHT STRAIGHT-WING, 3 HOUND, AND

25X1

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TOP SECRET CHESS RUFF

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2 POSSIBLE HARE.

[REDACTED]

KU-CHE AIRFIELD CH 4144N 08259E

NO APPARENT CHANGE SINCE [REDACTED] AUG 63.

AIRCRAFT -- NONE.

NO NEW CONSTRUCTION OBSERVED.

[REDACTED]

MONCHEGORSK AIRFIELD UR 6758N 03301E

IDENTIFICATION ONLY.

NO AIRCRAFT OBSERVED.

[REDACTED]

PETROZAVODSK AIRFIELD NORTHWEST UR 6153N 03408E

NO ELECTRONICS OR COMMUNICATIONS FACILITIES OBSERVED.
FIFTY PERCENT OF AIRFIELD CLOUD COVERED.

AIRCRAFT -- 2 LARGE SWEEP-WING FIGHTERS, 6 SMALL
SWEEP-WING FIGHTERS, AND 8 SMALL PROBABLE SWEEP-WING
FIGHTERS.

[REDACTED]

YEFREMOV AIRFIELD UR 5308N 03813E

AIRCRAFT -- 49 LARGE SWEEP-WING FIGHTERS, 4
POSSIBLE LARGE SWEEP-WING FIGHTERS, ONE CAT/CUB,
ONE CAB, 12 SMALL STRAIGHT-WING, 2 POSSIBLE SMALL
STRAIGHT-WING, AND AT LEAST 11 SMALL UNIDENTIFIED
AIRCRAFT.

A POSSIBLE GCA UNIT IS LOCATED BETWEEN THE

TOP SECRET CHESS RUFF

[REDACTED]

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64

TAXIWAY AND RUNWAY.

SUKHUMI/DRANDA AIRFIELD UR 4252N 04107E

NO ELECTRONIC OR COMMUNICATIONS FACILITIES OBSERVED.
TROOP LOADING AREA CANNOT BE IDENTIFIED.

SIX ROWS OF UNIDENTIFIED EQUIPMENT OBSERVED JUST
NORTH OF AIRFIELD. NO AIRCRAFT IDENTIFIABLE IN
LOADING AREA.

AIRCRAFT -- ONE PROBABLE CAMEL, 3 LIGHT STRAIGHT-
WING, AND 2 SMALL STRAIGHT-WING.

25X1

25X1

25X1

25X1

25X1

**Nuclear
Energy**

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**Naval
Activity/
Ports**

TOP SECRET CHESS RUFF

MISSION 40W, 24-27 SEPTEMBER 1964

NPIC/R-880/64

25X1

NAVAL ACTIVITY/PORTS

[REDACTED] CHAN-CHIANG NAVAL BASE CH 2112N 11025E

NO APPARENT CHANGE TO FACILITIES SINCE MAR 63.

VESSELS -- 2 MERCHANT VESSELS, ONE UNIDENTIFIED VESSEL AT WHARF, AND NUMEROUS SMALL CRAFT.

25X1

[REDACTED] TANDJUNGPRIOK PORT FACILITIES ID 0606S 10652E

NO APPARENT CHANGE TO FACILITIES SINCE JUN 63.

VESSELS -- ONE SVERDLOV-CLASS CL, 2 POSSIBLE SKORYY-CLASS DD, AT LEAST 11 MINOR NAVAL SURFACE VESSELS, APPROXIMATELY 55 OCEAN-GOING MERCHANT VESSELS IN HARBOR, AND 12 MERCHANT VESSELS IN ROAD.

25X1

[REDACTED] LIEPAJA NAVAL BASE AND SHIPYARD UR 5633N 02102E

BOTH GRAVING DOCKS OCCUPIED.

NO SUBMARINE PENS OBSERVED.

VESSELS -- ONE PROBABLE F/Z-CLASS SS, 6 PROBABLE W/R-CLASS SS (ONE MOORED IN OUTER HARBOR), 2 PROBABLE SHCH-IV-CLASS SS, ONE PROBABLE SS OUTBOARD OF AUXILIARY, ONE UNIDENTIFIED OBJECT ALONGSIDE WHARF, ONE SVERDLOV-CLASS CL, 3 DD (ONE IN GRAVING DOCK), 2 DE, 4 AUXILIARIES, AND NUMEROUS MINOR CRAFT.

25X1

[REDACTED] AL ISKANDARIYAH PORT FACILITIES EG 3111N 02952E

VESSELS -- 4 DD, ONE POSSIBLE PF, 2 POSSIBLE SS, 4 PROBABLE W-CLASS SS, AND AT LEAST 25 MINOR SURFACE COMBATANTS.

25X1

25X1

25X1

25X1

25X1

25X1

**Biological/
Chemical
Warfare**

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**Electronics/
Communications**

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/69

25X1

ELECTRONICS/COMMUNICATIONS

[REDACTED] TYURATAM INSTRUMENTATION SITE UR 5014N 06510E

25X1

SITE IS LOCATED 6 NM NW OF AMANGELDY. THE INTERFEROMETER AND MOST OF THE LANDING STRIP ARE OBSCURED BY CLOUD COVER.

CONTROL AND SUPPORT AREA IS PARTIALLY CLOUD COVERED. APPROXIMATELY 16 BUILDINGS OBSERVED.

NO CONSTRUCTION ACTIVITY, ANTENNAS, OR VEHICLES OBSERVED.

[REDACTED]

25X1

[REDACTED] BEKDASH INSTRUMENTATION SITE UR 4131N 05234E

25X1

NO INSTRUMENTATION FACILITY OBSERVED.

[REDACTED]

25X1

[REDACTED] TYURATAM INSTRUMENTATION SITE UR 4655N 06325E

25X1

SITE CONSISTS OF A PROBABLE INSTRUMENTATION/ COMMUNICATIONS AREA CONTAINING 6 OR 7 UNIDENTIFIED OBJECTS AND A SQUARE BUILDING. A PROBABLE CONTROL AND SUPPORT AREA LOCATED IMMEDIATELY EAST CONTAINS 23 BUILDINGS, 2 OF WHICH SUPPORT POSSIBLE DOMES. A SMALL UNIMPROVED AIRSTRIP IS LOCATED APPROXIMATELY ONE NM EAST OF THE CONTROL AND SUPPORT AREA. THERE IS EXTENSIVE TRACK ACTIVITY IN THE AREA, POSSIBLY SERVING SMALL INSTRUMENTATION POSITIONS WHICH CANNOT BE IDENTIFIED BECAUSE OF POOR IMAGE QUALITY. NO ANTENNAS OR VEHICLES CAN BE FIRMLY IDENTIFIED AND THERE APPEARS TO BE NO CONSTRUCTION ACTIVITY IN THE AREA.

[REDACTED]

25X1

[REDACTED] TYURATAM INSTRUMENTATION SITE UR 4810N 06833E

25X1

SITE IS LOCATED 6 NM NORTH OF TEREKTY AND

[REDACTED]

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64

CONSISTS OF AN INTERFEROMETER, A SUPPORT AND CONTROL AREA, A SMALL PROBABLE COMMUNICATIONS SITE, AND A RECENTLY EXPANDED LANDING FIELD. ORIENTATION OF THE INTERFEROMETER LEGS IS APPROXIMATELY 45 DEGREES OFF THE CARDINAL DIRECTION. THE SUPPORT AND CONTROL AREA CONTAINS 27 BUILDINGS, SEVERAL PROBABLE VEHICLES, 2 BURIED TANKS, AND AN ATHLETIC FIELD. IT HAS NOT CHANGED SIGNIFICANTLY SINCE APR 63. THE SMALL PROBABLE COMMUNICATIONS SITE IS LOCATED APPROXIMATELY 2,000 FT SOUTH OF THE SUPPORT AND CONTROL AREA AND CONSISTS OF A SQUARE BUILDING, 2 SMALL UNIDENTIFIED OBJECTS, AND 5 VEHICLES/VANS PARKED IN A LINE. NO MASTS OR ANTENNAS OBSERVED. AN ADDITIONAL LANDING STRIP HAS BEEN ADDED SINCE APR 63 AND THE OLD LANDING STRIP HAS BEEN EXTENDED SLIGHTLY. A PROBABLE SMALL AIRCRAFT PARKING AREA IS LOCATED OFF THE NW END OF THE NEW STRIP.

[REDACTED]

[REDACTED] EMBA MISSILE TRACKING FACILITY UR 4836N 05809E
IDENTIFICATION ONLY.

[REDACTED]

[REDACTED] NIZHNIYE KRESTY SUSP TROPOSCATTER SITE UR 6928N 16121E
NO ANTENNA OBSERVED IN THIS AREA.

[REDACTED]

[REDACTED] NES, RADAR SITE UR 6636N 04440E
IDENTIFICATION ONLY.

[REDACTED]

[REDACTED] MYS ZHELANIYA TALL KING RADAR UR 7655N 06825E
A TWIN TALL KING RADAR SITE IS LOCATED 1.5 NM SW

[REDACTED]

25X1
23A1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64

[REDACTED]

OF ZHELANIYA AIRFIELD AT 76-55-30N 068-25-00E. EACH RADAR HAS AN OPERATIONS BUILDING, GENERATOR BUILDING, AND ADJACENT IMMEDIATE SUPPORT BUILDING. NO HORIZONTAL TANKS OBSERVED. A SUPPORT AREA .5 NM EAST OF THE SITE CONTAINS 8 SUPPORT BUILDINGS. IMMEDIATELY WEST OF THE SUPPORT AREA IS A COMMUNICATIONS FACILITY WITH 5 OR 6 STICK MASTS.

[REDACTED]

[REDACTED] MYS KARASEVEY TALL KING RADAR UR 7110N 06655E

NO TALL KING SITE OBSERVED IN CLOUD-FREE AREAS.

[REDACTED]

[REDACTED] AMDERMA TALL KING RADAR UR 6945N 06121E

POSSIBLE TALL KING RADAR IS LOCATED 4.5 NM WEST OF AMDERMA AIRFIELD AT 69-45-50N 061-21-30E.

FACILITY CONSISTS OF ONE CONTROL BUILDING, A GENERATOR BUILDING, A GROUP OF HORIZONTAL STORAGE TANKS, AND 2 SUPPORT BUILDINGS.

NO OTHER ELECTRONIC INSTALLATIONS AND NO SUPPORT FOR THE POSSIBLE TALL KING OBSERVED.

[REDACTED]

[REDACTED] TALDOM AREA HF RADIO TRANSMITTING STA UR 5644N 03736E

SECURED AREA CONTAINS 4 UNUSUALLY CONFIGURED ANTENNA ARRAYS. THREE OF THE ARRAYS HAVE 9 STEEL TOWERS EACH, ARRANGED IN A CRESCENT PATTERN. THE FOURTH IS CONSIDERABLY LARGER AND HAS 13 STEEL TOWERS ARRANGED IN THE SAME PATTERN. EACH ANTENNA HAS A PROBABLE FEED TOWER WITH A BOOM-LIKE STRUCTURE AT THE TOP LOCATED ON THE INWARD SIDE OF THE ARC OF TOWERS. AT THREE OF THE 4 ANTENNAS THIS PROBABLE FEED IS APPARENTLY MOVABLE ON A GANTRY RAIL-TYPE ARRANGEMENT. EACH ANTENNA HAS A

TOP SECRET CHESS RUFF

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64

UNIQUE CONTROL-TYPE BUILDING. IN ADDITION TO THOSE ANTENNA ARRANGEMENTS THE FOLLOWING FACILITIES ARE OBSERVED -- 6 CONTROL BUILDINGS, (3 WITH ADJACENT COOLING PONDS), 2 UNIDENTIFIED RECTANGULAR PROBABLE ANTENNA REFLECTORS, 3 SELF-SUPPORTING STEEL TOWERS (EACH WITH A BOOM-LIKE STRUCTURE AT THE TOP), 11 RHOMBIC ANTENNA PATTERNS, ONE PROBABLE VERTICAL RADIATOR, AND SUPPORT FACILITIES (INCLUDING A RESERVOIR).

NIKOLAYEV AREA, COMMUNICATIONS SITE UR 4649N 03212E

THE PREVIOUSLY REPORTED CURTAIN ARRAYS ALONG 2 SIDES OF THE FENCED AREA ARE IN 2 GROUPS -- ONE OF 3 ARRAYS AND ONE OF 2 ARRAYS.

THERE ARE FOUR PAIRS OF DAY/NIGHT RHOMBIC ANTENNAS UNDER CONSTRUCTION OUTSIDE THE FENCED LIMITS OF THE SITE, IN ADDITION TO THE PREVIOUSLY REPORTED PAIR OF DAY/NIGHT RHOMBIC ANTENNAS.

NO CHANGE IN OTHER FACILITIES SINCE JUN 64.

25X1

25X1

25X1

25X1

25X1

25X1

**Military
Activity**

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64

MILITARY ACTIVITY

[REDACTED] CHANG-CHI ARMY BARRACKS SOUTH CH 2343N 11652E

AREA APPEARS ACTIVE.

NO VEHICLES/PIECES OF EQUIPMENT OBSERVED.

[REDACTED]

[REDACTED] GYA PROB MILITARY STOR AREA TI 3006N 09509E

AREA APPEARS ACTIVE. IT APPEARS TO BE A SUPPLY AREA ALONG THE MAIN, ALL-WEATHER, 2-LANE, PROBABLY GRAVEL-SURFACED HIGHWAY.

[REDACTED]

[REDACTED] LEI-PEI AREA, MILITARY AREAS CH 2122N 11016E

NO APPARENT CHANGE SINCE JUN 64 IN AREAS A, B, AND D. AREA C IS NOT COVERED.

SCATTERED CLOUDS AND POOR IMAGE QUALITY PRECLUDE OBSERVATION OF VEHICLES/EQUIPMENT.

[REDACTED]

[REDACTED] HU-HO-HAO-TE HQ INNER MONGOLIA MD CH 4050N 11140E

SMALL, SECURED, POSSIBLE MILITARY INSTALLATION OBSERVED AT 40-50-50N 111-40-10E CONTAINS 20 BARRACKS-TYPE BUILDINGS.

NO OTHER MILITARY ACTIVITY AND NO VEHICLES/EQUIPMENT OBSERVED.

[REDACTED]

[REDACTED] BARANDVICH I ARMY BARRACKS EAST UR 5307N 02602E

AREA APPEARS OCCUPIED AND IN USE.

25X1
25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64

NO TANKS OBSERVED.

[REDACTED]

BAYRAM-ALI ARMY BARRACKS SOUTHEAST UR 3737N 06210E

INSTALLATION IS ACTIVE AND CONTAINS APPROXIMATELY
50 UNIDENTIFIED VEHICLES/PIECES OF EQUIPMENT.

[REDACTED]

KALININGRAD BARRACKS OBERTEICH SOUTHWEST UR 5443N 02030E

AREA APPEARS ACTIVE, BUT CANNOT BE CONFIRMED OR
NEGATED AS A MILITARY AREA.

NO TANKS OBSERVED.

[REDACTED]

ORENBURG AAA BARRACKS EAST UR 5146N 05507E

INSTALLATION IS ACTIVE.

APPROXIMATELY 80 UNIDENTIFIED VEHICLES/PIECES OF
EQUIPMENT OBSERVED.

[REDACTED]

KALININGRAD ARMY BARRACKS BALLIT UR 5445N 02030E

AREA IS ACTIVE AND OCCUPIED.

NO TANKS OBSERVED.

[REDACTED]

KALININGRAD ARMY BARRACKS NORTHWEST UR 5444N 02027E

AREA APPEARS OCCUPIED.

[REDACTED]

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64

25X1

ONE ROW OF UNIDENTIFIED VEHICLES/EQUIPMENT OBSERVED.

[REDACTED]

25X1

KALININGRAD ARMY BARRACKS NORTHEAST UR 5443N 02031E

25X1

AREA IS OCCUPIED AND ACTIVE.

APPROXIMATELY 10 UNIDENTIFIED VEHICLES/EQUIPMENT OBSERVED.

[REDACTED]

25X1

KALININGRAD ARMY BARRACKS SOUTHWEST UR 5441N 02028E

25X1

AREA IS OCCUPIED.

NO TANKS OBSERVED.

[REDACTED]

25X1

KALININGRAD ARMY BARRACKS PONART UR 5440N 02028E

25X1

AREA APPEARS OCCUPIED.

ONE ROW OF UNIDENTIFIED VEHICLES/EQUIPMENT OBSERVED.

[REDACTED]

25X1

KALININGRAD ARMY BARRACKS KUMMERAU UR 5444N 02032E

25X1

AREA IS ACTIVE AND OCCUPIED.

NO TANKS OBSERVED.

[REDACTED]

25X1

KALININGRAD ARMY BARRACKS ROTHENSTEIN UR 5444N 02032E

25X1

AREA IS ACTIVE AND OCCUPIED.

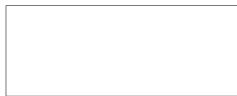
[REDACTED]

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64



THREE ROWS OF UNIDENTIFIED VEHICLES/EQUIPMENT OBSERVED.



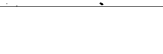
KALININGRAD ARMY BARRACKS SHARLOTTENBURG UR 5444N 02027E
AREA IS OCCUPIED AND PROBABLY ACTIVE.

NO TANKS OBSERVED.



TAMBOV ARMY BARRACKS SOUTH UR 5240N 04128E
BARRACKS AND DEPOT APPEAR OCCUPIED AND ACTIVE.

EIGHT ROWS OF UNIDENTIFIED VEHICLES/EQUIPMENT OBSERVED.



ULAN-UDE BARRACKS AND HQ 71ST TANK DIV UR 5154N 10731E
AREA IS OCCUPIED.

NUMEROUS VEHICLES/PIECES OF EQUIPMENT OBSERVED THROUGHOUT THE AREA.



KEMEROVO MILITARY BARRACKS PRAVOI TOM UR 5523N 08559E
AREA APPEARS ACTIVE.

NO EVIDENCE OF ANY ARMOR OBSERVED.



25X1
25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64

25X1

[REDACTED] YUZHNO-SAKHALINSK ARMY BARRACKS NE UR 4659N 14245E

25X1

AREA APPEARS OCCUPIED.

APPROXIMATELY 40 UNIDENTIFIED VEHICLES/PIECES OF EQUIPMENT ARE OBSERVED.

[REDACTED]

25X1

[REDACTED] YUZHNO-SAKHALINSK BKS BOLSHAYA YELAN UR 4655N 14244E

25X1

POOR IMAGE QUALITY AND HEAVY CLOUDS PRECLUDE DETERMINATION OF OCCUPANCY.

NO TANKS OBSERVED.

[REDACTED]

25X1

[REDACTED] YUZHNO-SAKHALINSK BKS KHRISTOFOROVKA UR 4653N 14246E

25X1

HEAVY CLOUDS AND POOR IMAGE QUALITY PRECLUDE DETERMINATION OF OCCUPANCY.

NO TANKS OBSERVED.

[REDACTED]

25X1

[REDACTED] LIEPAJA ARMY DEPOT KARA OSTA UR 5633N 02103E

25X1

AREA APPEARS OCCUPIED AND ACTIVE.

NO TANKS OBSERVED.

[REDACTED]

25X1

[REDACTED] LIEPAJA ARMY BARRACKS NORTH UR 5633N 02101E

25X1

AREA APPEARS OCCUPIED AND ACTIVE.

NO TANKS OBSERVED.

[REDACTED]

25X1

[REDACTED]

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64

25X1
25X1



LIEPAJA BARRACKS NORTH UR 5634N 02101E
AREA APPEARS OCCUPIED AND ACTIVE.
NO TANKS OBSERVED.

25X1



25X1



LIEPAJA HQ 51ST GUARDS MTZ RIFLE DIV UR 5631N 02100E
NO MILITARY INSTALLATION OBSERVED AT THIS LOCATION.

25X1



25X1



SEVERO-KURILSK ARMY BARRACKS WEST UR 5041N 15607E
POOR IMAGE QUALITY PRECLUDES DETERMINATION OF STATUS.
NO TANKS OBSERVED.

25X1



25X1



SEVERO-KURILSK ARMY BARRACKS SOUTH UR 5040N 15608E
POOR IMAGE QUALITY PRECLUDES CONFIRMATION OF THIS
AREA AS A MILITARY INSTALLATION.

25X1

AREA IS ADJACENT TO PORT FACILITIES. AN OPEN-
STORAGE/EQUIPMENT AREA WITH AN UNDETERMINED NUMBER
OF UNIDENTIFIED OBJECTS IS OBSERVED IN THE NE PART
OF THE INSTALLATION.



25X1



SUKHUMI ARMY BARRACKS SOUTHEAST UR 4259N 04102E
THIS AREA CANNOT BE CONFIRMED AS A MILITARY
INSTALLATION. IT MAY BE A SCHOOL OR RESORT AREA.
NO VEHICLES OR EQUIPMENT OBSERVED.

25X1



25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64

25X1

[REDACTED]

25X1

[REDACTED] KALININGRAD MILITARY TRAINING AREA UR 5445N 02017E
AREA IS OCCUPIED.

25X1

LACK OF TRACKS INDICATES NO RECENT VEHICLE ACTIVITY.

[REDACTED]

25X1

[REDACTED] MI-TU ARMY BARRACKS CH 2521N 10028E
INSTALLATION APPEARS ACTIVE.
NO VEHICLES/EQUIPMENT OBSERVED.

25X1

[REDACTED]

25X1

[REDACTED] LIN-TSANG ARMY BKS AND HQ 40TH INF DIV NE CH 2353N 10005E
INSTALLATION APPEARS ACTIVE.
NO VEHICLES/EQUIPMENT OBSERVED.

25X1

[REDACTED]

25X1

[REDACTED] CHAN-CHIANG AREA, MILITARY INSTALLATION CH 2116N 11019E
INSTALLATION APPEARS ACTIVE.
POOR IMAGE QUALITY PRECLUDES OBSERVATION OF VEHICLES/
EQUIPMENT.

25X1

[REDACTED]

25X1

[REDACTED] YUZHNO-SAKHALINSK ARMY SUP DPO 1 PUG UR 4658N 14244E
NO TANKS OBSERVED.
POOR IMAGE QUALITY PRECLUDES IDENTIFICATION OF

25X1

[REDACTED]

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64

ACTIVITY.

[Redacted]

YUZHNO-SAKHALINSK ARMY SUP DPO 2 PUG UR 4657N 14243E

NO TANKS OR OTHER EQUIPMENT OBSERVED.

POOR IMAGE QUALITY AND CLOUD SHADOW PRECLUDE IDENTIFICATION OF ACTIVITY.

[Redacted]

ULAN-UDE ARMY SUPPLY DPO UDA RIVER SOUTH UR 5149N 10741E

APPROXIMATELY 25 PERCENT OF WESTERN EDGE OF ARMY SUPPLY DEPOT COVERED.

NO EQUIPMENT/VEHICLES OR UNUSUAL ACTIVITY OBSERVED.

[Redacted]

ULAN-UDE ARMY SUPPLY DEPOT UR 5149N 10736E

AREA IS APPROXIMATELY 90 PERCENT VISIBLE THROUGH SCATTERED CLOUDS.

NO INDICATIONS OF ANY NEW CONSTRUCTION OBSERVED.

NUMEROUS PILES OF UNIDENTIFIED MATERIALS IN OPEN STORAGE OBSERVED WITHIN THE AREA, BUT NO TANKS, WEAPONS, OR VEHICLES CAN BE IDENTIFIED.

[Redacted]

NAGYATAD ARMY BARRACKS 2 HU 4611N 01721E

NO MILITARY INSTALLATION OBSERVED AT THESE COORDINATES.

[Redacted]

[Redacted]

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64

25X1

[REDACTED] NAGYATAD HEADQUARTERS BARRACKS 3 HU 4613N 01720E

AREA APPEARS ACTIVE AND OCCUPIED.

NUMEROUS VEHICLES/PIECES OF EQUIPMENT OBSERVED,
BUT POOR IMAGE QUALITY PRECLUDES IDENTIFICATION.

25X1

25X1

[REDACTED] TAPOLCA ARMY BARRACKS 1 HU 4653N 01723E

INSTALLATION APPEARS ACTIVE AND OCCUPIED.

UNIDENTIFIED VEHICLES/PIECES OF EQUIPMENT ARE
PARKED IN THE AREA.

25X1

25X1

[REDACTED] TAPOLCA ARMY BARRACKS 2 ODOROGD HU 4657N 01726E

AREA IS ACTIVE AND OCCUPIED.

NO TANKS OBSERVED.

25X1

25X1

[REDACTED] WARSAW ARMY SUPPLY DPD SLUZEWIEC SW PO 5210N 02059E

AREA APPEARS OCCUPIED.

NO TANKS OBSERVED.

25X1

25X1

[REDACTED] WARSAW ARMY BARRACKS WYGLEDOW PO 5211N 02058E

AREA IS OCCUPIED.

APPROXIMATELY 200 UNIDENTIFIED VEHICLES/PIECES OF

25X1

25X1

25X1



TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964



NPIC/R-880/64

25X1

EQUIPMENT PARKED IN AREA.



25X1



WARSAW HQ WARSAW MILITARY DISTRICT PO 5216N 02100E

25X1

AREA APPEARS OCCUPIED.

NO TANKS OBSERVED.



25X1



25X1

Complexes

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64

COMPLEXES

PITU PETROLEUM PRODUCT STORAGE ID 0202N 12817E

THREE LARGE, POSSIBLY ABANDONED STORAGE TANKS ARE
LOCATED IN A WOODED AREA 1.3 NM WEST OF PITU AIRFIELD.

25X1

25X1

25X1

TOP SECRET CHESS RUFF

25X1

Attachments

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64
ATTACHMENT 1

25X1



NPIC J-4398 (10/64)

LAUNCH AREA C, ZHANGIZ-TOBE ICBM COMPLEX, USSR

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64
ATTACHMENT 2

25X1



NPIC J-4399 (10/64)

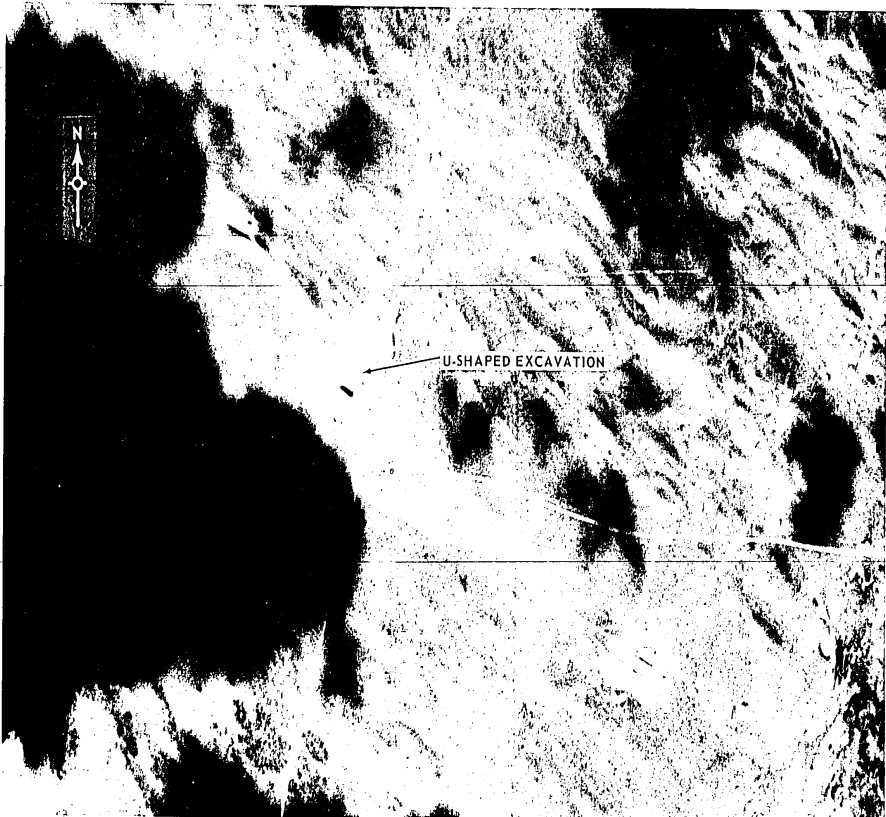
LAUNCH AREA D, ZHANGIZ-TOBE ICBM COMPLEX, USSR

TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF



TOP SECRET CHESS RUFF
MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64
ATTACHMENT 3

25X1

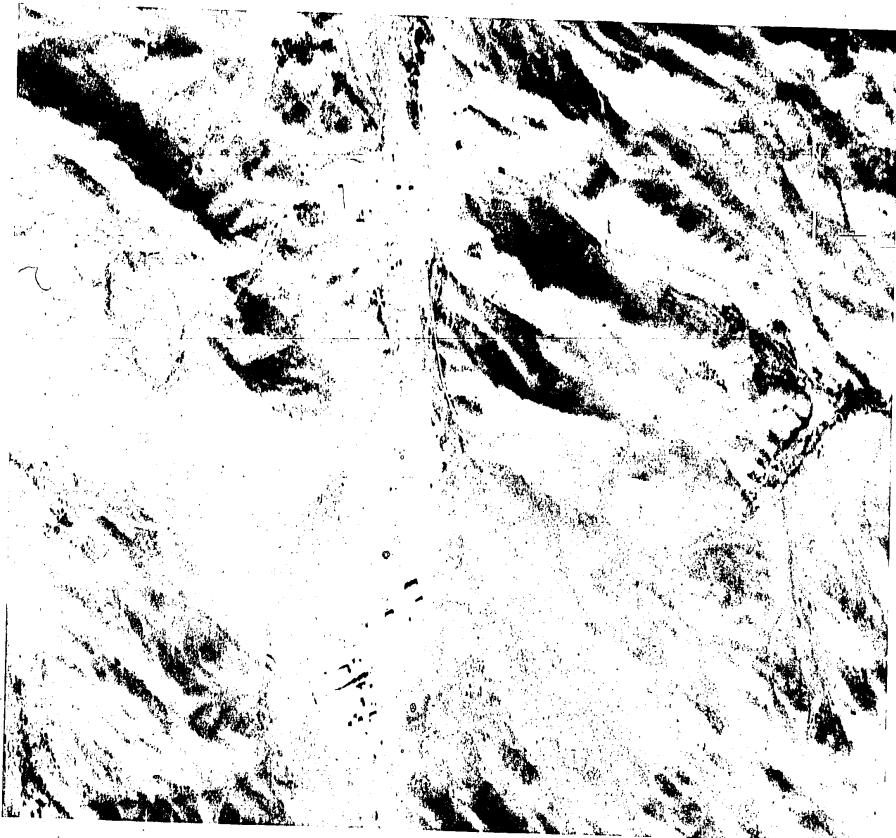
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LAUNCH AREA E, ZHANGIZ-TOBE ICBM COMPLEX, USSR

NPIC J-4400 (10/64)

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TOP SECRET CHESS RUFF



LAUNCH AREA A, ZHANGIZ-TOBE ICBM COMPLEX, USSR

NPIC J-4396 (10/64)

TOP SECRET CHESS RUFF
MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64
ATTACHMENT 4

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MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-880/64
ATTACHMENT 5

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NPIC J-4397 (10/64)

LAUNCH AREA B, ZHANGIZ-TOBE ICBM COMPLEX, USSR

TOP SECRET CHESS RUFF

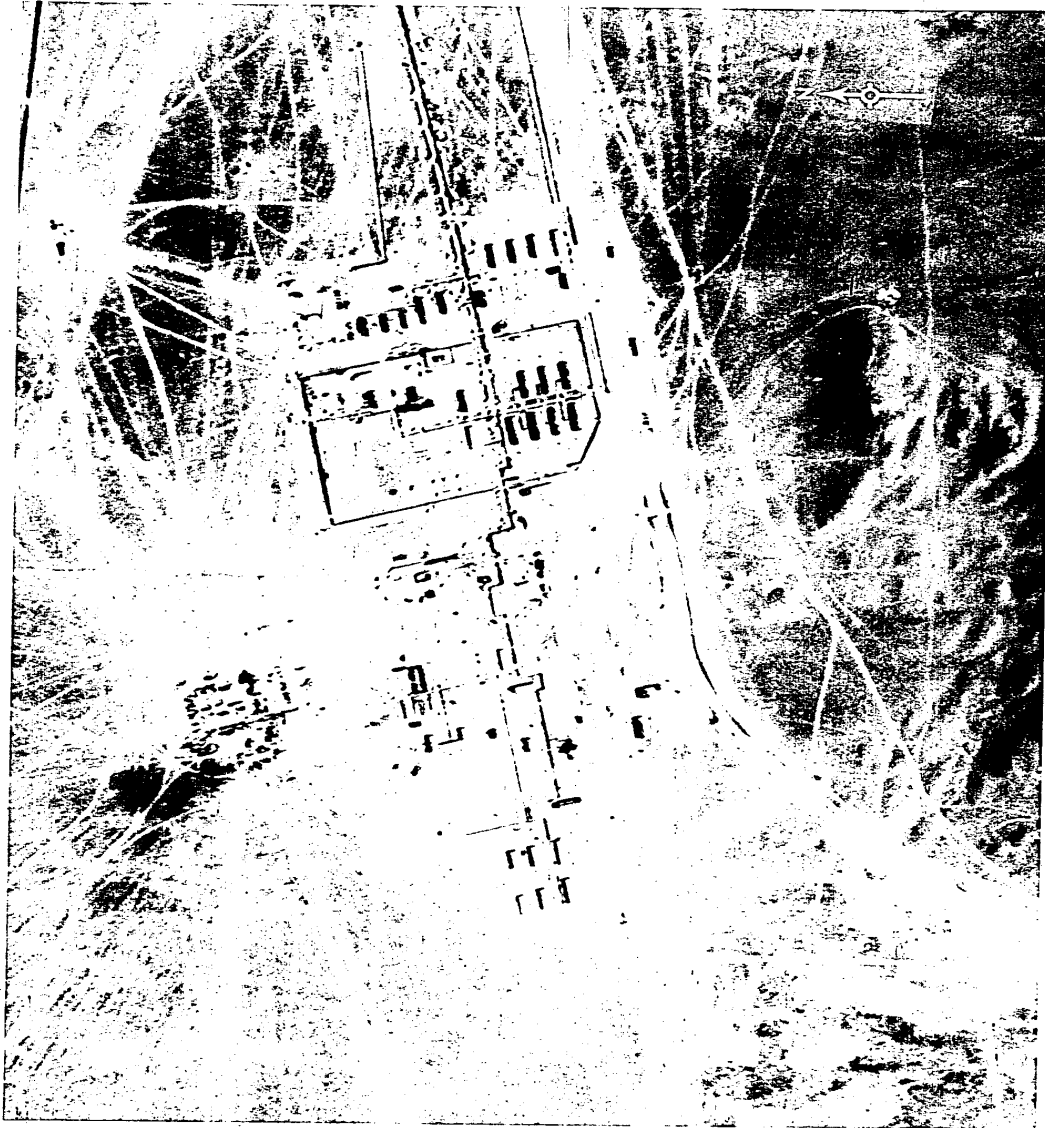
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COMPLEX SUPPORT FACILITY, ZHANGIZ-TOBE ICBM COMPLEX, USSR

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OAK-PART II

MISSION 4011

PREFACE

THIS IS THE SECOND AND LAST DAILY OAK REPORT ON MISSION 4011 DEALING WITH THE HIGHEST PRIORITY INTELLIGENCE ITEMS APPEARING IN THE COMOR TARGET LIST. THIS REPORT, COVERING THE OAK REPORTING PERIOD FROM 1500 HOURS 2 OCTOBER 1964 TO 1500 HOURS, 3 OCTOBER 1964, PRESENTS INFORMATION ONLY ON THOSE COMOR TARGETS OBSERVED ON THE PHOTOGRAPHY. COMOR TARGETS OBSERVED ON MISSION 4011 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 AND INDEX NUMBERS ARE INDICATED BY THE LETTERS FR. WHEN MORE THAN ONE FRAME/INDEX NUMBER IS LISTED, STEREO COVERAGE IS INDICATED. X AND Y COORDINATES ARE LISTED FOR THE BEST FRAME OF PHOTOGRAPHY. SYMBOLS INDICATING CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON THE PHOTOGRAPHY ARE AS FOLLOWS -- C (CLEAR), SC (SCATTERED CLOUDS), HC (HEAVY CLOUDS), H (HAZE), CS (CLOUD SHADOW), SD (SEMIDARKNESS), O (OBLIQUITY), S (SNOW), PQ (POOR IMAGE QUALITY).

OAK RECIPIENTS ARE CAUTIONED THAT THE INITIAL SCAN OF PHOTOGRAPHY FROM MISSION 4011 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

THE OVERALL PHOTOGRAPHIC QUALITY OF MISSION 4011 IS FAIR. IMAGERY IS SOFT IN APPEARANCE AND THE PHOTOGRAPHY IN GENERAL IS OF LOW CONTRAST. QUALITY ENLARGEMENTS CANNOT BE MADE MUCH BEYOND 20 DIAMETERS, AS COMPARED TO 50 DIAMETERS AND ABOVE ON SOME PREVIOUS MISSIONS.

1. SHADRINSK ICBM LAUNCH AREA A [REDACTED]
TWO LINEAR OBJECTS MEASURING 90 FT AND 70 FT ARE LOCATED ON THE LOOP ROAD. 25X1
2. ALEYSK ICBM COMPLEX [REDACTED]
ENTIRE COMPLEX COVERED BY CLEAR PHOTOGRAPHY. SILO CORING IS PRESENT AT THE BASE OF A U-SHAPED PATTERN AT LAUNCH AREAS C (SITE 3), D (SITE 4), E (SITE 5), AND F. SILO CORING IS NO LONGER VISIBLE AT A AND B (SITES 1 AND 2). THE SIGNATURE OF THE SINGLE SILO IN MID-STAGE OF CONSTRUCTION IS A U-SHAPED EXCAVATION WITH A SQUARE WHITE AREA TO THE EAST AND A RECTANGULAR WHITE AREA TO THE WEST. 25X1
3. KAPUSTIN YAR LAUNCH COMPLEX A [REDACTED]
A PROBABLE MISSILE EXERCISE APPEARS TO BE UNDERWAY, WITH A MISSILE ERECTED AT THE SOUTHERN LAUNCH PAD. 25X1
4. KAPUSTIN YAR LAUNCH COMPLEX B [REDACTED]
A NEW BIVOUAC/TRAINING AREA IS LOCATED APPROXIMATELY 2.3 NM WEST OF LAUNCH COMPLEX B. 25X1
5. KAPUSTIN YAR LAUNCH COMPLEX C [REDACTED]
LAUNCH AREA 1C (SITE 7) -- THE TWO PADS UNDER CONSTRUCTION ARE APPROXIMATELY 90 FT SQUARE AND A RAIL SPUR APPEARS TO TERMINATE AT THE CENTER OF EACH. 25X1

LAUNCH AREA 2C (SITE 6) -- THERE IS ACTIVITY ON BOTH PADS. THE SOUTHERN LAUNCH PAD CONTAINS A PROBABLE TRANSPORTER BACKED UP TO A PROBABLE ERECTOR.

LAUNCH AREA 4C (SITE 4) -- LAUNCH SITE 4C1 -- THE NEW RAIL LINE IS BEING CONTINUED TO THE LAUNCH SITE. A NEW SQUARE EXCAVATION IS LOCATED 200 FT SOUTH OF THE WESTERN REAR SILO.

LAUNCH AREA 5C (SITE 2) -- LAUNCH SITE 5C1 -- ACTIVITY IS EVIDENT ON BOTH PADS. TWO POSSIBLE TRANSPORTERS OBSERVED ON LOOP ROAD.

PROBABLE MISSILE ASSEMBLY AND CHECKOUT AREA -- WESTERN SECURITY

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FENCES EXTENDED TO INCLUDE ABOUT 40 PERCENT MORE AREA. NEW BUILDINGS UNDER CONSTRUCTION.

6. KAPUSTIN YAR LAUNCH COMPLEX E (SITE 3) AN UNIDENTIFIED OBJECT OBSERVED IN ONE CORNER OF THE PAD AT LAUNCH COMPLEX E. A NEW AREA IS UNDER CONSTRUCTION APPROXIMATELY 2.5 NM NNE OF LAUNCH COMPLEX E. A NEW BIVOUAC/TRAINING AREA IS OBSERVED APPROXIMATELY 2 NM WEST OF LAUNCH COMPLEX E.

7. SARY-SHAGAN SITE 13 THE PITCH OF THE TWO LINEAR BUILDINGS AT THE CENTRAL HEN HOUSE-TYPE STRUCTURE APPEARS TO DIFFER. THESE BUILDINGS APPEAR TO BE PARALLEL.

8. CHEREPOVETS SUSPECT AMM/SAM LAUNCH COMPLEX U/C NO SIGNIFICANT PROGRESS APPARENT AT SUSPECT LAUNCH SITES. AN EAST-WEST ROAD EXTENDING WESTWARD FROM A POINT NW OF THE SUPPORT AREA IS BEING IMPROVED AND EXTENDED TO THE WEST.

9. KANDALAKSHA SAM SITE (MISSILE BONUS) SA-2 SAM SITE IS UNDER CONSTRUCTION.

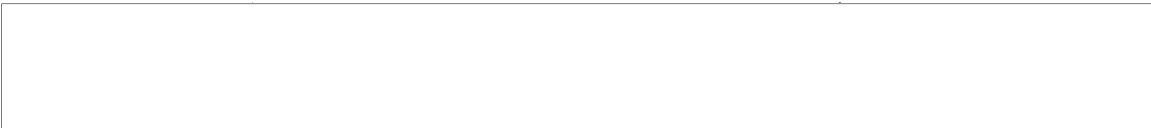
10. KANDALAKSHA SAM TRAINING AREA (MISSILE BONUS) NEWLY IDENTIFIED SAM TRAINING AREA CONSISTS OF TWO OCCUPIED SAM TRAINING SITES AND OTHER ASSOCIATED FACILITIES.

11. MAGADAN POSSIBLE SAM SITE (MISSILE BONUS) A NEWLY IDENTIFIED POSSIBLE SA-3 SAM SITE IS UNDER CONSTRUCTION.

12. KEMEROVO STATIC TEST FACILITY (MISSILE BONUS) A SECURED STATIC TEST FACILITY IN A LATE STAGE OF CONSTRUCTION IS LOCATED 5 NM NW OF KEMEROVO.

13. PITU AIRFIELD AIRFIELD CONSISTS OF TWO PARALLEL 8,000 FT RUNWAYS. TWO BADGER AIRCRAFT OBSERVED.

14. LODEYNOYE POLE AIRFIELD TWENTY-THREE PROBABLE FISHBED/FISHPOT AND 21 SMALL SWEEP-WING FIGHTERS OBSERVED.



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16. MYS MELOVOY PROBABLE NUCLEAR DESALINIZATION PLANT [REDACTED]
THE IRREGULAR STRUCTURE OF THE DESALINIZATION BUILDING IS PROBABLY COMPLETE. LOCATION OF A REACTOR BUILDING CANNOT BE DETERMINED.

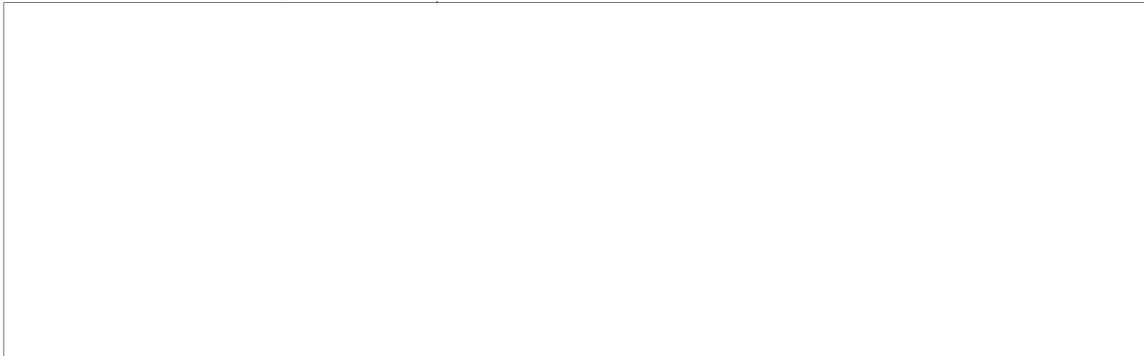
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17. SURABAJA NAVAL BASE AND SHIPYARD [REDACTED]
NAVAL VESSELS INCLUDE 3 PROBABLE SMALL SS, 2 POSSIBLE SS, 4 DD, 4 DE, 3 AUXILIARIES, AND NUMEROUS SMALLER CRAFT.

25X1

18. AL LADHIQIYAH NAVAL BASE AL MINA AL BAYDAH (NAVAL BONUS)
VESSELS -- 3 KOMAR-CLASS PGMG AND 3 POSSIBLE PT BOATS.

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STATUS OF COMOR TARGET READOUT

A TOTAL OF 239 COMOR TARGETS WERE OBSERVED IN THE OAK REPORTING PERIOD AND ARE COVERED IN PART I AND PART II.

TABULAR SUMMARY

A RECAPITULATION OF SIGNIFICANT ACTIVITY IS PRESENTED IN THE FOLLOWING 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		
	A	B	C	D	E	F	G	H	I	J	K	L	M	N					
Alrysk	⊙	⊙	⊙	⊙	⊙	⊙											6	6	
Dambanovskiy	M	M	E	E	E												5	5	
Drovyannaya	⊙	C	C	⊙	L	⊙											3	3	
Gladkaya	C	C		M	E												2	10	
Iatka	C	C	C														3	6	
Kartaly	E	E	E														3 (1†)	3 (1†)	
Kostroma	C	C	C	C	C	C	C	M									6	2	
Kozelsk	C	C		C	C	L											3	2	
Novosibirsk	⊙	C	L	C	C				⊙								3	2	
Obovannaya	C	L	L	M													9	15	
Omsk	C																1	3	
Perm	C	C	C	C	C	L											5	1	
Plesetsk*	C	C	C	C	C	E	E										11	1	
Shadrinsk	⊙	⊙	⊙														3	9	
Subodnyy	C	C	C	C	C	L	C										7	1	
Teykovo	C	C	C	C	C	C											6	12	
Tyumen	C		C														2	4	
Uzhar	M	M	M	M	E												6	6	
Vekhnaya Salda	C	C	C	C	C	C	C	C									7	2	
Yedrovo	C	C	C	C	C	C	C	M	C								6	3	
Yoshkar-Ola	C	C	C	C	C	C											6	12	
Yurya	C	C	C	C	C	C	C	C	C	C	L						8	3	
Zhangiz-Tobe	⊙	⊙	⊙	⊙	⊙												5	5	
Construction Status (C-complete, L-late, M-mid, E-early)																Deployment Total	75	60 (1†)	268 (1†)
Tyuratam MTC	⊙	⊙	C	L	C	C	M	C	⊙	⊙	M						10		
Grand Total																88	60 (1†)	303 (1†)	

*Includes Launch Points I-IV, complete ** Carried as Launch Group † Possible

There are 31 deployed single silo sites with 31 launch positions. At Tyuratam there are five single silo sites with eight launch positions.

□ Newly identified
⊙ Covered by current mission

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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	4	1	5	12	43
Far Eastern	11	1		2	14	54
Totals	137	16	21	21	195	759

Totals do not include 60 fixed field-type sites with total of 223 clearings and one launch facility at Sovetskaya Gavan.

Table 3. SAM and AMM Deployment

	Country													Totals	
	USSR	Albania	Bulgaria	Czechoslovakia	Hungary	Poland	Rumania	Yugoslavia	China	North Korea	Indonesia	Egypt	Cuba		India
SA-0	13														13
SA-1	56														56
SA-2	929	1	19	22	16	30	16	3	12	2	4	13	24	1	1139
SA-3	96				1										99
SAM support facilities	153	1	3	5	3	6	4	1	1	3	6				220
Probable AMM complexes	3														3
AMM/SAM complexes	2***														2

*Does not include 4 alternate sites ***Includes 1 suspect complex.
 **Does not include 22 abandoned sites. † Possible

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Table 2. AIRCRAFT ACTIVITY
Previous Significant Aircraft Count

Airfield	List Coverage	Observed this Mission														TOTALS		
		BYON	DE W	BADGER	BADGER	BADGER	WANDER	MULLOW	FIDDLER	FIDDLER	FIDDLER	FIDDLER	FIDDLER	FIDDLER	FIDDLER			
Altabinsk Vladimirovka	Jun 64																	
Belaya	Aug 64	2	26															
Arady Leninka	Apr 64		17															
Anisno Gorodische	Apr 64		27															
Arkhangelsk Kholm*	Feb 64																	
Artem North	Feb 64																	
Baranovichi*	Sep 64		48															
Borzya NW	Sep 64		22	6														
Borzya SW	Sep 64		6															
Belaya Tserlov	Sep 64	6	61														26	
Bobruysk*	Sep 64		52															
Chernovo-Glinskoye	Sep 64		11															
Bykhov*	Sep 64		26															
Chepelovka*	Sep 64	17	171															
Dolon*	Sep 64	32																
Donetsk Lake	Dec 63	48 B	11															
Engels*	Aug 64	24				142												
Gomel Pribytki	Sep 64		2															
Kalinin*	Jun 64		16	26														
Kaliningrad Proyeren	Sep 64		3															
Komomolsk Pli 126	Jun 64		9	27														
Kazan A. C. Pli 22	Sep 64		7	20			201							3	14	232		
Mal' Yavr	Jul 64		6														40	
Melitopol	Mar 64		37															
Minsk Marchulische*	Aug 64		6															
Mozorod	Sep 64					(NO AIRCRAFT)												
Moscow Ramenskoye	Sep 64		33															
Mozdok*	Aug 64	1	23**	7	1		32											
Nezhin	Sep 64					(NO AIRCRAFT)												
Nikolayev Kulskenino	Dec 63		25														40***	
Okt'yabskoye	Dec 63		40															
Olenegorsk	Jun 64																31	
Ozelsa Southwest*	Sep 64		10															
Ostrov Gorokhovka	Aug 64		33															
Petropavlovsk Yelizovo	Mar 64		201															
Poltava*	Jun 64		53*															
Priluki*	Sep 64		27															
Romanovka West	Apr 64		20															
Ryazan Dyagilevo	Sep 64	22 B	22														5	
Saki	Sep 64		22	5														
Sarabuz	Mar 64		16															
Severomorsk	Mar 64		2															
Sialuis*	Sep 64	15 B	2															
Solt'y*	Aug 64		21															
Spassk Dalniy East	Sep 64		22															
Stuy*	Jun 64		11															
Tafu	Jul 64		29															
Ukraina*	Sep 64	1 B	1															
Ussuriysk Vozdvizhenka*	Sep 64	41																
Zhitomir Skomorokhi*	Sep 64		6															
TOTALS	1010-2	22	89	92	113	1	5	14	3	34	19	2	1711	7	1	100**	51*	1
		26 B	B															

*NUCLEAR WEAPONS STORAGE POSSIBLE
 †PROBABLE **BADGER CAMEL ***PLUS 4 BADGER CAMEL COOKPOT

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MISSILES

[redacted] TYURATAM LAUNCH COMPLEX A (SITES 1, 15) UR 4555N 06320E
NO SIGNIFICANT CHANGE SINCE [redacted] SEP 64.

[redacted] TYURATAM LNCH COMPLEX B (SITES 2, 16, 17) UR 4559N 06333E
NON-STEREO COVERAGE INDICATES NO SIGNIFICANT CHANGE
SINCE [redacted] SEP 64.

LAUNCH AREA B3 (SITE 17) IS IDENTIFICATION ONLY.

[redacted] TYURATAM LAUNCH COMPLEX I (SITE 14) UR 4555N 06326E
STEREO COVERAGE REVEALS NO SIGNIFICANT CHANGE
SINCE [redacted] SEP 64.

[redacted] TYURATAM COMPLEX J UR 4554N 06316E
NO SIGNIFICANT CHANGE SINCE [redacted] SEP 64.
AT LEAST 17 VEHICLES/PIECES OF EQUIPMENT OBSERVED
ON THE AREA OF SCARRING AND TRACK ACTIVITY 3,000
FT NE OF THE TERMINUS OF THE COMPLEX MAIN ROAD.

[redacted] TYURATAM MAIN SUPPORT BASE UR 4538N 06317E
NON-STEREO COVERAGE REVEALS NO SIGNIFICANT CHANGE
SINCE [redacted] SEP 64.

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SHADRINSK ICBM LAUNCH AREA A (SITE 1) UR 5608N 06351E

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LAUNCH AREA COVERED BY FAIR-QUALITY STEREO PHOTOGRAPHY.

ALL THREE SILO DOORS ARE IN THE OPEN POSITION, WITH AN UNIDENTIFIED OBJECT CASTING A SHADOW FROM IN FRONT OF THE RIGHT AND CENTER SILOS. TWO LINEAR OBJECTS MEASURING 90 FT AND 70 FT ARE LOCATED ON THE LOOP ROAD. THE LONGER OF THESE OBJECTS GIVES A STRONG INDICATION OF HAVING A POINTED OR TAPERED END.



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SHADRINSK ICBM LAUNCH AREA B (SITE 2) UR 5609N 06402E

25X1

LAUNCH AREA COVERED BY FAIR-QUALITY STEREO PHOTOGRAPHY. NO SIGNIFICANT CHANGES OBSERVED SINCE



25X1



SHADRINSK ICBM LAUNCH AREA C (SITE 3) UR 5606N 06356E

25X1

LAUNCH AREA IS COVERED BY FAIR-QUALITY STEREO PHOTOGRAPHY. CONSTRUCTION CONTINUES AND SITE REMAINS IN LATE STAGE OF CONSTRUCTION. SILO DOORS ARE IN PLACE AND OPEN.



25X1



ALEYSK ICBM COMPLEX UR 5229N 08243E

25X1

LAUNCH AREA E (SITE 5), IN A MID-STAGE OF CONSTRUCTION, IS COVERED BY FAIR-QUALITY STEREO PHOTOGRAPHY. A SILO CORING IS PRESENT WITHIN A U-SHAPED EXCAVATION. A SMALL SQUARE WHITE AREA IS PRESENT ON THE EAST SIDE AND THREE SMALL BUILDINGS ARE NEARBY. A SECURITY FENCE ENCLOSES THE SITE.

SITE SUPPORT FACILITY, LOCATED APPROXIMATELY ONE NM SOUTH ON THE OUTSKIRTS OF A SMALL TOWN, CONSISTS OF



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2 LARGE BUILDINGS AND SEVERAL SMALL STRUCTURES.

LAUNCH AREA F, IN A MID-STAGE OF CONSTRUCTION, IS COVERED BY FAIR-QUALITY STEREO PHOTOGRAPHY. A SILO CORING IS VISIBLE WITHIN A U-SHAPED EXCAVATION. A SMALL SQUARE AREA IS PRESENT ON THE EAST SIDE AND A RECTANGULAR AREA ON THE WEST. TWO SMALL BUILDINGS ARE NEARBY. A SECURITY FENCE ENCLOSES THE AREA. THE SITE SUPPORT FACILITY IS LOCATED APPROXIMATELY ONE NM SE AND CONSISTS OF 2 LARGE AND 2 SMALL BUILDINGS.

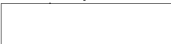
(ATTACHMENT 5-7)



ALEYSK ICBM LAUNCH AREA A (SITE 1) UR 5228N 08236E

LAUNCH AREA, COVERED BY POOR-QUALITY STEREO PHOTOGRAPHY, IS IN A MID-STAGE OF CONSTRUCTION, WITH AN UNIDENTIFIED OBJECT EXTENDING TO THE CENTER OF A ROUGHLY U-SHAPED EXCAVATION. THREE RATHER LARGE AND 3 SMALL BUILDINGS ARE IMMEDIATELY SOUTH OF THE SITE AND A LARGE SPOIL PILE ADJOINS THE EXCAVATION ON THE SW. A SMALL SQUARE WHITE AREA IS ADJACENT ON THE EAST SIDE AND A RECTANGULAR WHITE AREA ON THE WEST. A SITE SUPPORT FACILITY LOCATED APPROXIMATELY ONE NM EAST CONSISTS OF 2 LARGE AND 2 SMALL BUILDINGS.

(ATTACHMENT 1)



ALEYSK ICBM LAUNCH AREA B (SITE 2) UR 5230N 08240E

LAUNCH AREA IS COVERED BY FAIR-QUALITY STEREO PHOTOGRAPHY. LOCATED WITHIN A PROBABLE BOARD FENCE IS A U-SHAPED EXCAVATION WITH A SMALL SQUARE WHITE AREA TO THE EAST, A WHITE RECTANGULAR AREA TO THE WEST, AND 4 MEDIUM AND FOUR SMALL BUILDINGS. NO SILO CORING OBSERVED, ALTHOUGH IT WAS PLAINLY SEEN ON [REDACTED] JUL 64.



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SITE SUPPORT FACILITY IS LOCATED JUST OUTSIDE THE FENCE AND CONSISTS OF 2 LARGE BUILDINGS (ONE UNDER CONSTRUCTION) AND FOUR SMALL STRUCTURES.

(ATTACHMENT 2)

ALEYSK ICBM LAUNCH AREA C (SITE 3) UR 5233N 08245E

LAUNCH AREA, COVERED BY FAIR-QUALITY STEREO PHOTOGRAPHY, IS IN A MID-STAGE OF CONSTRUCTION AND CONSISTS OF A SILO CORING WITHIN A U-SHAPED EXCAVATION. THERE IS A WHITE RECTANGULAR AREA TO THE WEST AND A SMALL NEARLY SQUARE WHITE AREA TO THE EAST. A SECURITY FENCE IS UNDER CONSTRUCTION. THERE ARE SEVERAL VERY SMALL POSSIBLE STRUCTURES NEARBY. A SITE SUPPORT FACILITY IS LOCATED ABOUT .5 NM NW AND CONTAINS 3 LARGE AND 8 SMALLER STRUCTURES.

(ATTACHMENT 3)

ALEYSK ICBM LAUNCH AREA D (SITE 4) UR 5232N 08234E

LAUNCH AREA IS COVERED BY FAIR-QUALITY STEREO PHOTOGRAPHY. A SECURITY FENCE SURROUNDS THE SITE, WHICH IS IN A MID-STAGE OF CONSTRUCTION. A SILO CORING IS VISIBLE WITHIN A U-SHAPED EXCAVATION. IRREGULAR WHITE AREAS ARE PRESENT ON THE EAST AND WEST SIDES. THERE ARE TWO SMALL STRUCTURES NEARBY. A SITE SUPPORT FACILITY IS LOCATED APPROXIMATELY .5 NM WEST AND CONSISTS OF 2 LARGE AND 8 SMALLER BUILDINGS.

(ATTACHMENT 4)

25X1

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64

[REDACTED] KAPUSTIN YAR LAUNCH COMPLEX A UR 4842N 04615E

LAUNCH FACILITIES SHOW NO APPARENT CHANGE SINCE [REDACTED] APR 64. A PROBABLE MISSILE EXERCISE IS UNDERWAY AT THE SOUTHERN LAUNCH PAD OF COMPLEX A. THE MISSILE APPEARS TO BE ERECTED. TWO OR THREE VEHICLES ARE ON THE WESTERN EDGE OF THE PAD AND APPROXIMATELY SIX VEHICLES ARE NEAR THE WESTERN SIDE OF THE PAD. POOR IMAGE QUALITY PRECLUDES IDENTIFICATION OF VEHICLES AND MISSILE TYPES. THERE IS ALSO A POSSIBLE MISSILE TRANSPORTER ON THE NORTHERN LAUNCH PAD. THE NORTHERN EARTH-RAMP STRUCTURE DOES NOT APPEAR ACTIVE, ALTHOUGH THERE ARE THREE UNIDENTIFIED OBJECTS AT THE TOP OF THE STRUCTURE. THE SOUTHERN EARTH-RAMPED STRUCTURE IS INACTIVE. IN THE HOUSING AND SUPPORT AREA THE LARGE MULTISTORY BUILDING THAT WAS UNDER CONSTRUCTION ON [REDACTED] APR 64, HAS BEEN COMPLETED AND THE FOUNDATION AND PART OF THE WALLS OF ANOTHER STRUCTURE HAVE BEEN ERECTED. APPROXIMATELY 25 VEHICLES ARE VISIBLE IN THIS AREA. THE SECURED AREA CONTAINING THE LARGE MISSILE ASSEMBLY AND CHECKOUT BUILDING IS ACTIVE AND CONTAINS APPROXIMATELY 10 VEHICLES. THE NEARBY SAM SITE IS OCCUPIED AND APPROXIMATELY 15 VEHICLES ARE IN THE ADJACENT PARKING AREA. AN ATHLETIC FIELD IS VISIBLE BETWEEN THE SAM SITE AND HOUSING AND SUPPORT AREA. NO CHANGES ARE EVIDENT IN THE SAM SUPPORT AND HOUSING AREA. SEVERAL UNIDENTIFIABLE VEHICLES ARE VISIBLE IN THE AREA.

TROOP TRAINING AREA LOCATED APPROXIMATELY 3 NM SSW OF LAUNCH COMPLEX E AND 1.5 NM NW OF LAUNCH COMPLEX A -- WALLS ARE UP ON LARGE BUILDING IN THE SW CORNER OF BUILDING AREA. ONLY THE FOUNDATION WAS VISIBLE ON [REDACTED] APR 64, AND WALL CONSTRUCTION HAD NOT YET BEGUN ON [REDACTED] JUN 64. CONSTRUCTION APPEARS TO BE COMPLETE ON 3 SMALL BUILDINGS IN SW CORNER OF BUILDING AREA WHICH WERE UNDER CONSTRUCTION ON [REDACTED] JUN 64.

THE MOTOR POOL UNDER CONSTRUCTION ON [REDACTED] JUN 64, NOW APPEARS COMPLETE AND SECURED. NO NEW BUILDINGS HAVE BEEN ADDED SINCE [REDACTED] JUN 64. APPROXIMATELY 50 VEHICLES ARE PARKED IN THIS AREA. THE OLD MOTOR POOL IMMEDIATELY NORTH OF THE NEW MOTOR POOL CONTAINS APPROXIMATELY 40 VEHICLES,

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[REDACTED]

BUT MOST OF THOSE PRESENT ON [REDACTED] APR 64, HAVE PROBABLY BEEN TRANSFERRED TO THE NEW MOTOR POOL AREA. ALL OTHER VEHICLE PARKING APPEARS TO HAVE BEEN TRANSFERRED TO THE OLD TENT CAMP AREA, WHICH EXTENDED NORTH FROM THE BUILDING AREA. THIS AREA HAS BEEN CONVERTED TO A VEHICLE PARK AND CONTAINS APPROXIMATELY 200 VEHICLES PARKED IN TWO LONG ROWS.

(ATTACHMENT 8)

[REDACTED]

[REDACTED] KAPUSTIN YAR LAUNCH COMPLEX B UR 4841N 04616E

NO APPARENT CHANGE SINCE [REDACTED] APR 64, IN LAUNCH OR SUPPORT FACILITIES. ELEVEN LARGE AND 4 SMALL VEHICLES ARE PRESENT ON THE PARKING APRON IN THE SUPPORT AREA AND AT LEAST 15 LARGE AND 6 SMALL OBJECTS, POSSIBLY CRATES, ARE ALSO PRESENT IN THE SUPPORT AREA.

A BIVOUAC AREA JUST SW OF THE COMPLEX SUPPORT AREA CONTAINS 4 LARGE TENTS, 13 PERSONNEL TENTS, AND TWO POSSIBLE MISSILE-READY TENTS. THREE PROBABLE MISSILE TRANSPORTERS AND APPROXIMATELY 15 SMALL VEHICLES ARE PARKED IN THE AREA.

A SECOND BIVOUAC AREA CONTAINS APPROXIMATELY 30 PERSONNEL TENTS, 2 LARGE TENTS, AND 4 LARGE AND 12 SMALLER VEHICLES. ADJACENT TO THIS AREA IS A PROBABLE TRAINING AREA CONSISTING OF TWO DRIVE-UNDER STRUCTURES LOCATED IN THE CENTER OF TWO LONG NARROW SCARS WHICH FORM A VEE PATTERN.

A NEW BIVOUAC/TRAINING AREA LOCATED APPROXIMATELY 2.3 NM WEST OF LAUNCH COMPLEX CONSISTS OF 4 SECTIONS, EACH ENCLOSED BY A FIREBREAK. THE LARGEST SECTION CONTAINS 2 PROBABLE BUILDINGS, 5 SQUAD-TYPE TENTS, APPROXIMATELY 50 PERSONNEL TENTS, AND APPROXIMATELY 6 SMALL VEHICLES. ADJACENT TO THIS AREA ARE 12 PERSONNEL TENTS, ONE PROBABLE BUILDING, ONE PROBABLE MISSILE TRANSPORTER, AND 7 SMALLER VEHICLES. THE MOTOR POOL, THE SECOND

TOP SECRET CHESS RUFF

25X1
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TOP SECRET CHESS RUFF

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LARGEST SECTION, CONTAINS 5 MISSILE TRANSPORTERS, 4 LONG VEHICLES, AND APPROXIMATELY 40 SMALLER VEHICLES. ONE PROBABLE BUILDING IS ADJACENT TO THE TWO REMAINING SECTIONS. ONE SECTION CONTAINS ONE TENT AND 8 VEHICLES AND THE OTHER CONTAINS 5 VEHICLES.

(ATTACHMENT 9)

[REDACTED] KAPUSTIN YAR LNCH CMLX C (SITES 2, 4-9) UR 4836N 04616E

LAUNCH 1C (SITE 7) -- THE TWO PADS AT LAUNCH AREA 1C ARE STILL UNDER CONSTRUCTION. THE PADS ARE APPROXIMATELY 90 FT SQUARE AND A RAIL SPUR APPEARS TO TERMINATE AT THE CENTER OF EACH. A NEW FENCE LINE HAS BEEN CONSTRUCTED TO INCLUDE THE ENTIRE 1C LAUNCH AREA, INCLUDING THE TWO PADS UNDER CONSTRUCTION. THE RAIL-SERVED LAUNCHER HAS BEEN REMOVED FROM THE OLD LAUNCH PAD. THERE ARE 5 PIECES OF UNIDENTIFIED EQUIPMENT ON THIS PAD AND TWO NEW BUILDINGS HAVE BEEN COMPLETED WEST OF IT. THERE ARE TWO VEHICLES ON THE ACCESS ROAD TO THE SITE AND AN UNIDENTIFIED OBJECT IS ON THE RAIL LINE OUTSIDE THE LAUNCH AREA FENCE LINE.

FINAL CHECKOUT AREA 1C -- NO APPARENT CHANGE IN PERMANENT FACILITIES SINCE [REDACTED] JUN 64. THERE ARE TWO VEHICLES PARKED ON THE ROAD IN THE CHECKOUT AREA.

LAUNCH AREA 2C (SITE 6) -- THE PERMANENT FACILITIES AT LAUNCH AREA 2C REMAIN UNCHANGED SINCE [REDACTED] JUN 64. THERE IS ACTIVITY ON BOTH PADS AND A VEHICLE CONVOY IS ON THE ACCESS ROAD IMMEDIATELY OUTSIDE THE LAUNCH AREA. THE CONVOY INCLUDES 10 VEHICLES OF VARIOUS SIZES -- THE TWO LONGEST MEASURING APPROXIMATELY 55 FT. THE SOUTHERN LAUNCH PAD CONTAINS A PROBABLE TRANSPORTER BACKED UP TO A PROBABLE ERECTOR. THE TOTAL LENGTH OF BOTH VEHICLES IS 130 FT. ANOTHER SMALL VEHICLE IS IN MOTION ON THE PAD. THE NORTHERN PAD CONTAINS 3 VEHICLES APPROXIMATELY 65 FT LONG AND

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TOP SECRET CHESS RUFF

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AN UNIDENTIFIED PIECE OF EQUIPMENT. THERE IS A VEHICLE APPROXIMATELY 65 FT LONG IN FRONT OF THE NORTHERN VEHICLE STALL AND APPROXIMATELY 7 ADDITIONAL VEHICLES IN THE IMMEDIATE AREA. POOR IMAGE QUALITY PRECLUDES ADDITIONAL VEHICLE IDENTIFICATION.

LAUNCH AREA 3C (SITE 5) -- THERE IS NO ACTIVITY ON THE LAUNCH PADS AT LAUNCH AREA 3C. HOWEVER, APPROXIMATELY 20 VEHICLES ARE GROUPED AROUND ONE OF THE 3 MOCK-UP MISSILES LOCATED WEST OF THE LAUNCH PAD. THE VEHICLES CANNOT BE IDENTIFIED DUE TO POOR IMAGE QUALITY.

FINAL CHECKOUT AREA 3C -- IN THE NW SECTION OF FINAL CHECKOUT AREA 3C IS ONE NEW BUILDING APPROXIMATELY 90 X 30 FT WHICH WAS NOT PRESENT ON [REDACTED] APR 64. THERE IS A PROBABLE PRIME MOVER WITH TRAILER APPROXIMATELY 55 FT LONG PARKED ON A HARDSTAND IN FRONT OF ONE OF THE SUPPORT BUILDINGS. THERE ARE NO OTHER CHANGES OR ACTIVITY APPARENT IN THIS SUPPORT AREA.

LAUNCH AREA 4C (SITE 4) -- 4C1 HARD MRBM LAUNCH SITE -- ACTIVITY AND NEW CONSTRUCTION ARE NOTED AT LAUNCH SITE SINCE [REDACTED] THE NEW RAIL LINE BRANCHING OFF THE LINE SERVING LAUNCH AREA 1C IS BEING CONTINUED TO THE LAUNCH SITE. THE RAIL BED TERMINATES IN A FORK JUST EAST OF THE WESTERN REAR SILO. A NEW SQUARE EXCAVATION LOCATED APPROXIMATELY 200 FT SOUTH OF THE WESTERN REAR SILO CONTAINS A ROW OF 4 LINEAR OBJECTS AND A CIRCULAR HOLE OR REVETMENT. A LARGE STRUCTURE IS OBSERVED BETWEEN THE EXCAVATION AND THE SITE ACCESS ROAD. THE TALL STRUCTURE FORMERLY POSITIONED OVER THE EASTERN FORWARD SILO HAS BEEN MOVED NORTH TO THE SILO COVER. A CRANE IS DISCERNIBLE NEAR THE EASTERN REAR SILO AND AN UNIDENTIFIED VEHICLE IS AT THE EASTERN FORWARD SILO. APPROXIMATELY 10 VEHICLES ARE PARKED IN TWO ROWS EAST OF THE LAUNCH SILOS.

4C2 HARD IRBM LAUNCH SITE -- NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED] APR 64. SIX UNIDENTIFIED VEHICLES ARE PARKED ON THE

23

TOP SECRET CHESS RUFF

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

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SITE LOOP ROAD AND ONE NEXT TO THE CLOSED WESTERN FORWARD SILO.

4C SUPPORT AREA -- DISMANTLING OF BUILDINGS CONTINUES. APPROXIMATELY 8 BUILDINGS HAVE BEEN DISMANTLED SINCE [REDACTED] APR 64.

LAUNCH AREA 5C (SITE 2) -- LAUNCH SITE 5C1 -- NO APPARENT CHANGE IN THE LAUNCH SITE FACILITIES SINCE [REDACTED] JUN 64. ACTIVITY IS EVIDENT ON BOTH OF THE ELONGATED PADS. THREE UNIDENTIFIED VEHICLES ARE ON THE NORTHERN PAD AND ONE IS PARKED IN THE CENTER OF THE SOUTHERN PAD. TWO POSSIBLE TRANSPORTERS AND 3 UNIDENTIFIED VEHICLES ARE OBSERVED ON THE LOOP ROAD, 5 UNIDENTIFIED VEHICLES ARE ON A PARKING APRON, AND ONE IS PARKED ON A ROAD EXTENDING EAST FROM THE NORTHERN PAD.

LAUNCH SITE 5C2 -- NONE OF THE BUILDINGS ARE COMPLETE AND THE PADS REQUIRE ADDITIONAL WORK. NO VEHICLES ARE OBSERVED WITHIN THE LAUNCH SITE.

NORTH SUPPORT AREA -- THE ADDITION OF 3 BUILDINGS APPROXIMATELY 800 FT WEST OF THE MAIN BUILDING AREA IS THE ONLY SIGNIFICANT CHANGE IN THIS AREA.

SOUTH SUPPORT AREA -- THE TWO BUILDINGS REPORTED UNDER CONSTRUCTION [REDACTED] APR 64, NOW APPEAR TO BE COMPLETE. NO OTHER SIGNIFICANT CHANGES ARE APPARENT.

OPERATIONS CONTROL CENTER -- NEW CONSTRUCTION OF UNDETERMINED TYPE IS UNDERWAY JUST SOUTH OF THE ROAD AT LAUNCH COMPLEX C OPERATIONS CONTROL CENTER.

FINAL ASSEMBLY AND CHECKOUT AREA -- NO APPARENT CHANGE IN PERMANENT FACILITIES SINCE [REDACTED] APR 64. SEVEN RAIL CARS AND APPROXIMATELY 20 VEHICLES ARE LOCATED WITHIN THE SECURED AREA.

PROBABLE MISSILE ASSEMBLY AND CHECKOUT AREA -- THE RAIL-SERVED PROBABLE MISSILE ASSEMBLY AND CHECKOUT AREA APPROXIMATELY 5.5 NW OF THE LAUNCH COMPLEX C

25X1
25X1

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25X1

25X1

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FINAL ASSEMBLY AND CHECKOUT AREA SHOWS NEW ACTIVITY. THE WESTERN SECURITY FENCES HAVE BEEN EXTENDED WEST SINCE [REDACTED] JUN 64, TO INCLUDE APPROXIMATELY 40 PERCENT MORE AREA. IN THE SW SECTION OF THIS AREA THERE ARE THREE POSSIBLE 175 X 55 FT DRIVE-THROUGH BUILDINGS UNDER CONSTRUCTION. APPROXIMATELY 1,500 FT NORTH IS ANOTHER NEW BUILDING, MEASURING APPROXIMATELY 110 X 50 FT, WHICH WILL PROBABLY BE RAIL ENTERED. IN THE SOUTHERN PORTION OF THE ORIGINAL AREA A RAIL-SERVED PROBABLE DRIVE-IN BUILDING MEASURING APPROXIMATELY 90 X 35 FEET HAS BEEN CONSTRUCTED SINCE [REDACTED] JUN 64.

UNIDENTIFIED FACILITY -- THE UNIDENTIFIED FACILITY APPROXIMATELY 4.5 NM NORTH OF THE LARGE MISSILE ASSEMBLY AND CHECKOUT BUILDING SHOWS NO APPARENT CHANGE IN EXISTING FACILITIES SINCE

[REDACTED] JUN 64. THE LARGEST BUILDING IN THIS AREA NOW APPEARS TO HAVE A LARGE STEP IN THE ROOF LINE AT THE FRONT OF THE BUILDING. THE APRON AT THE REAR OF THIS BUILDING HAS BEEN EXTENDED UP TO THE DOUBLE RAIL SPUR THAT TERMINATES AT THE BUILDING. THE INTERNAL ROAD NETWORK OF THE INSTALLATION HAS BEEN SLIGHTLY EXPANDED AND IMPROVED. NO RAILROAD EQUIPMENT IS VISIBLE IN THE AREA AND ONLY A FEW VEHICLES ARE PRESENT; NONE OF WHICH ARE IDENTIFIABLE.

WARHEAD HANDLING AND CHECKOUT AREA WEST -- NO APPARENT CHANGE IN THE PERMANENT FACILITIES FROM [REDACTED] MAR 64. AREA CONTAINS APPROXIMATELY 13 RAIL CARS AND APPROXIMATELY 20 VEHICLES.

WARHEAD HANDLING AND CHECKOUT AREA EAST -- NO APPARENT CHANGE IN PERMANENT FACILITIES FROM [REDACTED] MAR 64. AREA CONTAINS AN UNIDENTIFIED VEHICLE APPROXIMATELY 80 FT LONG AND 3 OTHER SMALLER VEHICLES.

SSM BIVOUAC AREA -- ONLY SLIGHT CHANGE HAS TAKEN PLACE IN THE AREA SINCE [REDACTED] APR 64. THREE OF THE TRAINING AREAS ARE ACTIVE AND 7 OF THE PREVIOUSLY REPORTED BUILDINGS UNDER CONSTRUCTION ARE NOW COMPLETE. APPROXIMATELY 40 VEHICLES ARE

25

TOP SECRET CHESH RUFF

REV 1
25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

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AIR FACILITIES

THE TERM LARGE FIGHTER IN AIRFIELD REPORTS REFERS TO AIRCRAFT LARGER THAN FARMER. THE TERM SMALL FIGHTER REFERS TO AIRCRAFT IN THE FAGOT-FARMER SIZE RANGE.

[REDACTED] OSTROV GREEM-BELL AIRFIELD UR 8113N 06427E

AIRFIELD SUPPORT CONSISTS OF 8 SMALL BUILDINGS LOCATED ON THE EAST SIDE OF THE RUNWAY. RUNWAY IS SERVICEABLE WITH UNDETERMINED SURFACE.

AIRCRAFT -- [REDACTED] -- ONE POSSIBLE MEDIUM
SWEPT-WING. [REDACTED] -- ONE PROBABLE MEDIUM
SWEPT-WING.

[REDACTED]
[REDACTED]
[REDACTED] MOZDOK AIRFIELD UR 4347N 04436E

CONSTRUCTION CONTINUES ON RUNWAY AND TAXIWAYS.

NO AIRCRAFT OR ASM OBSERVED.

[REDACTED]
[REDACTED]
[REDACTED] PITU AIRFIELD ID 0202N 12819E

TWO PARALLEL 8,000 X 140 FT E/W PACKED ROCK RUNWAYS. BOTH APPEAR SERVICEABLE. SOUTH RUNWAY PROBABLY USED AS PARKING APRON AND TAXIWAY. TWO SUPPORT BUILDINGS OBSERVED JUST SOUTH OF RUNWAYS.

AIRCRAFT -- 2 BADGER, ONE LIGHT STRAIGHT-WING, AND 3 SMALL POSSIBLE AIRCRAFT.

[REDACTED]
[REDACTED]
[REDACTED] PRILUKI AIRFIELD UR 5034N 03219E

NO APPARENT CHANGE IN FACILITIES SINCE

25X1
25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

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25X1

LOCATED IN THE MOTOR POOL AND APPROXIMATELY 20 OTHER VEHICLES ARE LOCATED IN AN AREA IMMEDIATELY SOUTH OF THE MOTOR POOL. POOR IMAGE QUALITY PRECLUDES IDENTIFICATION OF VEHICLE TYPES. APPROXIMATELY 4 LARGE AND 2 SMALL TENTS REMAIN IN THE SOUTHERN SECTION OF THE AREA.

RANGEHEAD INTERFEROMETER SITE -- NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED] APR 64. AN ATHLETIC FIELD HAS BEEN ADDED ADJACENT TO THE SITE.

25X1

25X1



[REDACTED] KAPUSTIN YAR LAUNCH COMPLEX E (SITE 3) UR 4846N 04618E

25X1

SINCE [REDACTED] JUN 64, NEW SCARRING HAS

25X1

25X1

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APPEARED NORTH OF THE PAD AND PARALLEL TO THE SOUTHERN LOOP ACCESS ROAD. NEW FIREBREAKS HAVE BEEN EXTENDED THROUGH THE OLD FENCE-LINE TO INCLUDE TWO TRENCHES EXTENDING IN A GENERALLY SOUTHERN DIRECTION. ON THE NORTHERN CORNER OF THE PAD IS AN UNIDENTIFIED PIECE OR PIECES OF EQUIPMENT.

A NEW AREA IS UNDER CONSTRUCTION APPROXIMATELY 2.5 NM NNE OF LAUNCH COMPLEX E. THIS AREA IS ROAD SERVED BY A CONTINUATION OF THE ROAD SERVING LAUNCH COMPLEX E. THERE WAS NO EVIDENCE OF THIS NEW AREA OR SERVICE ROAD ON [REDACTED] JUN 64. THIS NEW AREA IS RECTANGULAR AND MEASURES APPROXIMATELY 735 X 620 FT. IT IS SECURED BY A SINGLE FENCE AND HAS TWO SECURITY BUILDINGS AT THE ENTRANCE. THE FENCE IS BROKEN NEAR THE NORTHERN CORNER FOR ACCESS TO A BORROW PIT. A RAISED STRUCTURE APPROXIMATELY 35 FT SQUARE NEAR THE CENTER OF THE AREA IS SURROUNDED BY A LOOP ROAD. A CIRCULAR REVETMENT IS ADJACENT TO THE WESTERN SIDE AND A LINEAR REVETMENT IS ADJACENT TO THE EASTERN SIDE OF THE LOOP ROAD.

A BIVOUAC/TRAINING AREA, NEW SINCE [REDACTED] JUN 64, IS OBSERVED APPROXIMATELY 2 NM WEST OF LAUNCH AREA E. THE AREA CONSISTS OF TWO RECTANGULAR SECTIONS, BOTH SURROUNDED BY FIREBREAKS. ONE SECTION CONTAINS 68 SMALL TENTS, 5 LARGE TENTS, AND APPROXIMATELY 10 VEHICLES. THE OTHER SECTION IS A MOTOR POOL AREA CONTAINING 19 LARGE VEHICLES, 27 SMALL VEHICLES, AND FOUR POSSIBLE SMALL TENTS. A DRIVE-THROUGH REVETMENT IS LOCATED ADJACENT TO THIS SECTION. POOR IMAGE QUALITY PRECLUDES VEHICLE IDENTIFICATION. THREE UNIDENTIFIED OBJECTS, POSSIBLY VEHICLES, ARE PARKED ON A SMALL CLEARED STRIP A SHORT DISTANCE FROM THE AREA. A SMALL TENT AND 3 POSSIBLE VEHICLES ARE LOCATED IN A LOOP ROAD PATTERN A SHORT DISTANCE FROM THE TENT AREA. EXTENSIVE VEHICULAR TRACKING IS EVIDENT IN THE SURROUNDING AREA.

(ATTACHMENTS 16-18)

[REDACTED] (62-10 LAUNCH COMPLEX E) (67-8 AREA NNE OF COMPLEX E) (67-8 AREA NNE OF COMPLEX E) (61-15 BIVOUAC/TRAINING AREA) C, PQ

25X1

25X1

25X1

25X1

25X1
25X1

25X1

TOP SECRET CHESS RUFF

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SARY-SHAGAN SITE 13 UR 4636N 07432E

SITE COVERED BY POOR IMAGE QUALITY STEREO PHOTOGRAPHY. NO SIGNIFICANT PROGRESS IS NOTED IN THE BUILDING TRIAD AREA AND THE THREE DUAL HEN HOUSE-TYPE STRUCTURES SINCE [REDACTED], SEP 64. NO CHANGE OBSERVED SINCE [REDACTED] SEP 64, IN THE PROBABLE FENCE WHICH SURROUNDS THE AREA OF THE TRIAD AND THE THREE DUAL HEN HOUSE-TYPE STRUCTURES AND EXTENDS BEYOND THE NORTHERN STRUCTURE FOR 2,500 FT -- A DISTANCE SUFFICIENT TO ACCOMMODATE A FOURTH SUCH STRUCTURE. TO DATE, NO INDICATIONS CAN BE FOUND OF A FOURTH STRUCTURE. NUMEROUS SCARS AND DITCHES ARE NOTED, SOME OF WHICH EXTEND UP TO OR CLOSE TO THE THREE TRIAD BUILDINGS AND THE THREE HEN HOUSE-TYPE STRUCTURES. SOME OF THESE ARE PROBABLY WATER AND POWER LINES. THE PITCHES OF THE TWO LINEAR BUILDINGS AT THE CENTRAL STRUCTURE APPEAR TO DIFFER. THESE BUILDINGS APPEAR TO BE PARALLEL. FOOTINGS OR EXCAVATIONS FOR FOOTINGS ARE NOTED IN BOTH LINEAR EXCAVATIONS OF THE NORTHERN STRUCTURE. SINCE [REDACTED] JUL 64, ONE NEW BUILDING AND ONE BUILDING FOUNDATION HAVE BEEN ADDED IN BOTH THE CENTRAL AND THE NORTHERN SUPPORT AREAS. NUMEROUS VEHICLES/PIECES OF EQUIPMENT ARE OBSERVED JUST EAST OF THE CENTRAL AND SOUTH HEN HOUSE-TYPE STRUCTURES AND JUST EAST OF THE NORTHERN SUPPORT AREA. ADDITIONAL STORAGE HAS APPEARED SINCE [REDACTED] SEP 64, IN THE STORAGE AREA JUST WEST OF THE CENTRAL STRUCTURE. TWO NEW BUILDINGS (115 X 35 FT AND 80 X 60 FT) AND FOUNDATIONS FOR AT LEAST TWO ADDITIONAL BUILDINGS CAN BE SEEN IN THE AREA APPROXIMATELY 3,700 FEET NNW OF THE NORTHERN STRUCTURE.

VORONEZH ROCKET TEST FACILITY UR 5134N 03908E

NO SIGNIFICANT CHANGE SINCE [REDACTED] SEP 64. CONSTRUCTION CONTINUES AT THE TWO ROAD-SERVED VERTICAL TEST STANDS. THE OLDER STAND IS IN THE FINAL STAGES OF CONSTRUCTION WITH GRADING CONTINUING IN THE BLAST DEFLECTOR. THE NEWER STAND

TOP SECRET CHESS RUFF

25X1
25X1

25X1

25X1
25X125X1
25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

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25X1
25X1

IS APPARENTLY IN A MID-STAGE OF CONSTRUCTION. IT APPEARS TO HAVE A HARDENED HORIZONTAL BLAST DEFLECTOR RATHER THAN AN EXCAVATED ONE, AND SOMEWHAT RESEMBLES A STRUCTURE IN A NEW AREA OF CONSTRUCTION AT ZAGORSK ROCKET ENGINE TEST FACILITY. NUMEROUS INTERCONNECTING PIPELINES, AREAS OF CONSTRUCTION ACTIVITY, AND UNIDENTIFIED PIECES OF EQUIPMENT ARE SCATTERED THROUGHOUT THE FACILITY.



25X1

[REDACTED] UFA STATIC TEST FACILITY UR 5459N 05604E
NO NEW FACILITIES OBSERVED SINCE [REDACTED] JUN 64.

25X1

25X1

THERE ARE NO TEST STANDS AT THIS FACILITY. HOWEVER, A TEST BUILDING SIMILAR TO THOSE AT VERKHNYAYA SALDA STATIC TEST FACILITY AND VORONEZH ROCKET TEST FACILITY HAS 3 SMALL WINGS ON ITS NORTH SIDE. THE TWO AT THE OUTER ENDS ARE PROBABLY TEST CELLS AND THE CENTER WING MAY HOUSE THE CONTROL EQUIPMENT. A CONCRETE BLAST APRON, SLIGHTLY WIDER THAN THE TEST BUILDING, EXTENDS ALONG THE NORTH SIDE OF THE TEST BUILDING.

NO MISSILE COMPONENTS OR TRANSPORT/HANDLING EQUIPMENT OBSERVED.



25X1

[REDACTED] BIYSK STATIC TEST FACILITY UR 5229N 08507E
NO APPARENT CHANGE SINCE [REDACTED] JUL 64.

25X1

25X1

NO MISSILE COMPONENT, HANDLING-AND-TRANSPORT EQUIPMENT, OR TEST ACTIVITY OBSERVED.



25X1

[REDACTED] SEVERODVINSK NAVAL BASE AND SHIPYARD 402 UR 6434N 03949E
HEAVY CLOUDS AND HAZE PRECLUDE DETAILED ANALYSIS. AT LEAST 6 UNIDENTIFIED OBJECTS AT WHARVES, PIER,

25X1



25X1

TOP SECRET CHESS RUFF

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AND IN FLOATING DRYDOCK WITHIN THE FLOODED BASIN AT POINTS PREVIOUSLY OCCUPIED BY SUBMARINES.

[REDACTED]

[REDACTED] KALININGRAD SUSP NAVAL MISSILE STORAGE UR 5450N 02028E

POSSIBLE STORAGE AND HANDLING AREA CONTAINS 7 CENTRAL DRIVE-IN BUILDINGS, 2 DRIVE-THROUGH BUILDINGS, AND 2 OTHER BUILDINGS. AREA IS SECURED AND APPEARS COMPLETE.

PROBABLE EXPLOSIVES STORAGE AREA CONTAINS 5 EARTH-MOUNDED STORAGE BUILDINGS IN SEPARATE CLEARING IN WOODS, ONE DRIVE-IN BUILDING, ONE DRIVE-THROUGH BUILDING, AND NUMEROUS ROAD TURNOFFS, THE AREA IS DOUBLE FENCED, BUT CLEARING ALONG FENCE LINES ON [REDACTED] DEC 63, IS NOW OVERGROWN. NO ADDITIONAL CONSTRUCTION SINCE [REDACTED] DEC 63.

[REDACTED]

[REDACTED] KALININGRAD PORT FACILITIES EAST UR 5442N 02029E

KALININGRAD PORT FACILITIES EAST -- AREA PRIMARILY OCCUPIED BY A RAIL YARD. PORT AREA HAS BARGES AND TIMBER RAFTS. NO SHIPYARD FACILITIES OR MAJOR NAVAL VESSELS OBSERVED.

KALININGRAD PORT FACILITIES -- 3 DOCKS WITH QUAYED SHORELINES ON EACH SIDE, POL STORAGE, AND AT LEAST 20 LARGER WAREHOUSES, TRANSIT SHEDS, AND OTHER BUILDINGS. NO SHIPYARD FACILITIES OR MAJOR NAVAL VESSELS OBSERVED.

KALININGRAD SHIPYARD STATE 820 -- LANDING FACILITIES CONSIST PRIMARILY OF QUAYED SHORELINE/ WHARVES, 5 FLOATING DRYDOCKS (2 OCCUPIED), APPROXIMATELY 30 LARGE SHOP-TYPE BUILDINGS, AND NUMEROUS SMALLER BUILDINGS. NO EVIDENCE OF SHIPS BEING CONVERTED TO MISSILE USE.

VESSELS -- 14 DD AND MINOR COMBAT VESSELS.

[REDACTED]

25X1

25X1

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25X1

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25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64



CHEREPOVETS SUSP AMM/SAM LNCH COMPLEX U/C UR 5906N 03810E

COMPLEX COVERED BY FAIR-QUALITY CLOUD-FREE STEREO PHOTOGRAPHY. THE SUSPECT LAUNCH SITES REMAIN IN A VERY EARLY CONSTRUCTION STAGE, WITH NO SIGNIFICANT PROGRESS APPARENT SINCE [REDACTED] JUL 64. NO MISSILES, MISSILE-RELATED EQUIPMENT, OR ASSOCIATED ELECTRONIC/COMMUNICATIONS FACILITIES OBSERVED. PERIMETER DITCHES BORDER EACH SITE. A GRADED AREA WITH ADJACENT PILES OF EARTH/AGGREGATE EXTENDS ALONG THE SOUTHERN EDGE OF THE WESTERMOST SITE. THREE BUILDINGS POSITIONED ALONG THE EAST/WEST ROAD JUST NORTH OF THE SITES, ALTHOUGH NOT CLEARLY DISCERNIBLE ON EARLIER PHOTOGRAPHY, WERE PROBABLY PRESENT IN JUN 64. NUMEROUS POSSIBLE VEHICLES ARE LOCATED IN THE SUPPORT AREA 0.5 NM NW OF THE SITES. A POSSIBLE RAIL SPUR CONSTRUCTED SINCE SEP 63 SERVES THIS SUPPORT AREA. AN EAST/WEST ROAD EXTENDING WESTWARD FROM A POINT NW OF THE SUPPORT AREA IS BEING IMPROVED AND EXTENDED TO THE WEST. THIS ACTIVITY IS NEW SINCE [REDACTED] JUL 64. THIS ROAD BYPASSES THE TOWN OF IRDOMATKA TO THE NORTH. BARRACKS-TYPE BUILDINGS IN ONE AREA, AND PROBABLY MORE PERMANENT HOUSING IN ANOTHER AREA, ARE UNDER CONSTRUCTION NEAR THE WESTERN TERMINUS OF THE NEW ROAD CONSTRUCTION. ASSOCIATION OF THIS NEW CONSTRUCTION ACTIVITY WITH THE SUSPECT AMM/SAM LAUNCH COMPLEX IS UNDETERMINED.

(ATTACHMENT 19)



BONUS 1 MAGADAN POSS SAM SITE UR 5934N 15044E

A NEWLY IDENTIFIED POSSIBLE SA-3 SAM SITE OF UNDETERMINED CONFIGURATION IS UNDER CONSTRUCTION 2.5 NM NW OF MAGADAN AT 59-34-30N 150-44-20E.



25X1
25X1

25X1

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25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64

BONUS 2 KANDALAKSHA SAM SITE UR 6708N 03211E

SA-2 SAM SITE UNDER CONSTRUCTION CONTAINS SIX REVETTED POSITIONS. CONFIGURATION IS UNDETERMINED.

BONUS 3 KANDALAKSHA SAM TRAINING AREA UR 6711N 03222E

NEWLY IDENTIFIED SAM TRAINING AREA CONSISTS OF TWO OCCUPIED, REVETTED, SIX-POSITION SAM TRAINING SITES. SUPPORT FACILITY CONSISTS OF TWO DRIVE-THROUGH BUILDINGS, TWO REVETTED BUILDINGS, SIX VEHICLE STORAGE BUILDINGS, A REVETTED POSSIBLE HARDSTAND WITH AN UNDETERMINED NUMBER OF PIECES OF UNIDENTIFIED EQUIPMENT, AND APPROXIMATELY 20 OTHER BUILDINGS.

(ATTACHMENT 20)

BONUS 4 KEMEROVO STATIC TEST FACILITY UR 5526N 08557E

A SECURED STATIC TEST FACILITY IN THE LATE STAGES OF CONSTRUCTION IS LOCATED 5 NM NW OF KEMEROVO, JUST NW OF AND CONNECTED BY ROAD AND RAIL TO KEMEROVO AMMUNITION LOADING AND EXPLOSIVES PLANT RAKETA 392. THE FACILITY IS SIMILAR TO THE KRASNOYARSK STATIC TEST FACILITY AND CONTAINS ONE HORIZONTAL TEST CELL UNDER CONSTRUCTION, A LARGE L-SHAPED BLAST DEFLECTOR, A REVETTED BUILDING, A POSSIBLE H-SHAPED BUILDING IN THE EARLY STAGES OF CONSTRUCTION, AN UNIDENTIFIED STRUCTURE, AND 5 SMALL SUPPORT BUILDINGS. A STEAM LINE LEADS TO THE KEMEROVO THERMAL POWER PLANT NW.

(ATTACHMENT 21)

25X1
25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64

[Redacted]

[Redacted]

[Redacted]

AIRCRAFT -- 5 BADGER.

[Redacted]

[Redacted]

ANADYR/LENINKA AIRFIELD UR 6442N 17742E

MAJORITY OF AIRFIELD IS CLOUD COVERED.

AIRCRAFT ON ONE PARKING APRON VISIBLE -- 3 PROBABLE BADGER, 26 SMALL POSSIBLE SWEEP-WING, AND ONE LIGHT STRAIGHT-WING.

[Redacted]

[Redacted]

ABDULRACHMAN SALEH AIRFIELD ID 0755S 11242E

NO APPARENT CHANGE SINCE [Redacted] APR 64, IN VISIBLE PORTIONS.

AIRCRAFT -- 3 PROBABLE CRATE AND ONE POSSIBLE LIGHT TRANSPORT.

[Redacted]

[Redacted]

HASANUDDIN AIRFIELD ID 0503S 11932E

AIRFIELD 3.2 NM SSW OF MAROS HAS 5,800 X 185 FT NW/SE BLACKTOP RUNWAY, SERVICEABLE, AND 5,700 X 190 FT ENE/WSW BLACKTOP RUNWAY, PROBABLY UNSERVICEABLE AND USED AS TAXIWAY AND PARKING RAMP.

FACILITIES INCLUDE A PROBABLE GCA LOCATED IN THE TRIANGLE FORMED BY THE TWO RUNWAYS AND THE MAIN PARKING APRON.

AIRCRAFT -- 8 POSSIBLE BEAGLE, 7 SMALL SWEEP-WING FIGHTERS, AND ONE CAB.

[Redacted]

[Redacted]

25X1

25X1

25X1

25X1

25X1

25X1

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25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64



[REDACTED] KAZAN AIRFRAME PLANT GORBUNOV 22 UR 5552N 04907E

ONLY EAST END OF 4,500 X 300 FT NNE/SSW RUNWAY COVERED.

AIRCRAFT -- ONE LIGHT STRAIGHT-WING TRANSPORT.



[REDACTED] GORKIY/SOROMOVO AIRFIELD UR 5619N 04348E

AIRFIELD OBSERVED THROUGH HEAVY HAZE. ONLY OUTLINE OF RUNWAY, TAXIWAY, AND PARKING APRONS VISIBLE.

AIRCRAFT -- ONE LIGHT STRAIGHT-WING AND APPROXIMATELY 15 POSSIBLE AIRCRAFT.



[REDACTED] GORKIY AIRFRAME PLANT ORDZHONIKIDZE 21 UR 5620N 04352E

IDENTIFICATION ONLY.



[REDACTED] AN-TUNG AIRFIELD CH 4001N 12417E.

NO APPARENT CHANGE SINCE MAY 63.



25X1
25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1



TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964



NPIC/R-881/64

AIRCRAFT -- NONE OBSERVED.



CHAN-CHIANG AIRFIELD CH 2113N 11020E

NO NEW CONSTRUCTION OBSERVED.

AIRCRAFT -- NONE OBSERVED.



KU-SHAN-TZU AIRFIELD CH 4201N 12544E

NO APPARENT CHANGE SINCE [REDACTED] NOV 61.

AIRCRAFT -- 24 SMALL SWEEP-WING.



HUAI-TE AIRFIELD CH 4332N 12447E

NO APPARENT CHANGE SINCE [REDACTED] JUL 64.

AIRCRAFT -- 17 BEAGLE AND ONE LIGHT STRAIGHT-WING.



LIEN-CHENG AIRFIELD CH 2540N 11645E

NO APPARENT CHANGE SINCE [REDACTED] DEC 61.

AIRCRAFT -- 14 FAGOT/FRESCO.



LIU-HO AIRFIELD CH 4216N 12542E

NO APPARENT CHANGE SINCE [REDACTED] JUL 64.

AIRCRAFT -- NONE OBSERVED.



25X1

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25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64

[Redacted]

[Redacted]

[Redacted]

[Redacted] NEN-CHIANG AIRFIELD NORTH CH 4914N 12521E

CLEAR, GOOD-QUALITY STEREO COVERAGE.

NO APPARENT CHANGE SINCE [Redacted] JUN 64.

AIRCRAFT -- ONE SHADOW OF CAB AFTER TAKE OFF
VISIBLE AT SW END OF NE/SW RUNWAY.

[Redacted]

[Redacted] UIJU AIRFIELD KN 4009N 12430E

AIRFIELD COMPLETELY COVERED BY CLEAR, POOR-QUALITY
PHOTOGRAPHY. NO APPARENT CHANGE SINCE
[Redacted] APR 63.

AIRCRAFT -- 59 PROBABLE BEAGLE.

[Redacted]

[Redacted] AMAHAI AIRFIELD ID 0321S 12854E

AIRFIELD PROBABLY UNSERVICEABLE.

AIRCRAFT -- NONE OBSERVED.

[Redacted]

[Redacted] PENFUI AIRFIELD ID 1010S 12339E

NO APPARENT CHANGE IN FACILITIES SINCE APR 64.

AIRCRAFT -- NONE OBSERVED.

[Redacted]

[Redacted]

25X1
25X1

25X1

25X1

25X1

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25X1

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25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64

25X1

HABBANIYAH AIRFIELD IQ 3322N 04334E

25X1

NO APPARENT CHANGE SINCE [REDACTED] DEC 62.
HABBANIYAH PLATEAU AIRFIELD IS NOT COVERED.

25X1

AIRCRAFT -- NONE OBSERVED.

25X1

DAYR AZ ZAWR AIRFIELD SOUTH SY 3517N 04011E

25X1

AIRFIELD APPEARS ABANDONED. POSSIBLE BARRIERS
OBSERVED ACROSS RUNWAY.

AIRCRAFT -- NONE OBSERVED.

25X1

HAI-LA-ERH AIRFIELD SOUTHWEST CH 4909N 11941E

25X1

NO APPARENT CHANGE SINCE [REDACTED] NOV 62.

25X1

AIRCRAFT -- NONE OBSERVED.

25X1

BUDAPEST/TOKOL AIRFIELD HU 4721N 01859E

25X1

NO ELECTRONICS OR COMMUNICATIONS FACILITIES OBSERVED.

AIRCRAFT -- APPROXIMATELY 14 SMALL SWEEP-WING,
APPROXIMATELY 19 POSSIBLE SMALL DELTA-WING,
5 CRATE/COACH, AND ONE CAB.

25X1

BUREVESTNIK AIRFIELD UR 4454N 14738E

25X1

NO ELECTRONIC OR COMMUNICATIONS FACILITIES
OBSERVED.

AIRCRAFT -- 41 FAGOT/FRESCO AND ONE LIGHT

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64

STRAIGHT-WING.

[REDACTED]

[REDACTED] KOKAYTY AIRFIELD UR 3737N 06731E

POSSIBLE ILS IS LOCATED APPROXIMATELY 2,700 FEET FROM THE NNE END OF THE RUNWAY.

AIRCRAFT -- ONE BEAGLE AND 45 SMALL SWEEP-WING FIGHTERS.

[REDACTED]

[REDACTED] PREZE AIRFIELD AL 4125N 01944E

NO ELECTRONIC OR COMMUNICATIONS FACILITIES OBSERVED.

AIRCRAFT -- 3 POSSIBLE AIRCRAFT.

[REDACTED]

[REDACTED] WARSAW/DKECIE AIRFIELD PO 5211N 02058E

NO APPARENT CHANGE SINCE [REDACTED] JUN 64.

AIRCRAFT -- 8 CAB, 8 CRATE/COACH, 5 PROBABLE CRATE/COACH, 3 LIGHT STRAIGHT-WING, AND 4 MEDIUM STRAIGHT-WING.

[REDACTED]

[REDACTED] POWIDZ AIRFIELD PO 5223N 01751E

IDENTIFICATION ONLY.

[REDACTED]

[REDACTED] ASHKHABAD AIRFIELD NORTHWEST UR 3758N 05821E

AIRCRAFT -- 6 COOT, 4 CRATE, 4 CAB, 6 SMALL SINGLE

[REDACTED]

25X1
25X1

25X1

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25X1

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TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64

PISTON ENGINE, 5 LIGHT HELICOPTERS, AND 2 UNIDENTIFIED POSSIBLE HELICOPTERS.

POSSIBLE GCA/ILS OBSERVED BETWEEN RUNWAY AND TAXIWAY.

NIKOLAYEV/KULBAKINO AIRFIELD UR 4656N 03205E

NO APPARENT CHANGE FROM [REDACTED] DEC 61. A PROBABLE GCA FACILITY IS LOCATED BETWEEN THE RUNWAY AND THE MAIN PARKING APRON.

AIRCRAFT -- 51 BADGER AND 3 CAB.

ORENBURG AIRFIELD SOUTHWEST UR 5143N 05504E

NO APPARENT CHANGE SINCE [REDACTED] JUL 64.

AIRCRAFT -- 25 BEAGLE, 87 SMALL SWEEP-WING FIGHTER, ONE CRATE, AND ONE PROBABLE CAB.

LODEYNOYE POLE AIRFIELD UR 6042N 03333E

NO APPARENT CHANGE SINCE [REDACTED] SEP 63.

AIRCRAFT -- 23 PROBABLE FISHBED/FISHPOT, 21 SMALL SWEEP-WING FIGHTER, AND ONE SMALL STRAIGHT-WING.

RAS BANAS AIRFIELD EG 2358N 03528E

8,300 X 150 FT NW/SE BLACKTOP RUNWAY WITH A PARALLEL TAXIWAY CONNECTED AT EACH END BY A SEMICIRCULAR TAXIWAY CONTAINING 4 HARDSTANDS. FOUR HARDSTANDS LOCATED NORTH OF TAXIWAY.

25X1
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TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64

25X1
25X1

IMMEDIATELY SE OF THE RUNWAY ARE 2 LONG NARROW BUILDINGS AND 6 OTHER SMALLER BUILDINGS. APPROXIMATELY 5,000 FT SE OF THE RUNWAY IS A SUPPORT AREA CONTAINING 16 LONG NARROW BUILDINGS. THERE ARE AT LEAST 9 SMALL BUILDINGS SCATTERED THROUGHOUT THE IMMEDIATE AREA.

AIRCRAFT -- NONE OBSERVED.

25X1

25X1

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TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64

NAVAL ACTIVITY/PORTS

SURABAJA NAVAL BASE AND SHIPYARD ID Ø712S 11244E

NAVAL FACILITIES INCLUDE A NAVAL BASIN WITH 2 MOLES, 7 PIERS, AND A COVERED OFF-SHORE WHARF. A SHIPYARD AND COMMERCIAL BASIN TO THE WEST CONTAIN 3 MOLES, ONE LARGE PIER, ONE SHIP REPAIR FACILITY, AND POL STORAGE.

VESSELS -- IN NAVAL BASE -- 3 PROBABLE SMALL SS, 2 POSSIBLE SS, 4 DD, 4 DE, 4 FLOATING DRY DOCKS (TWO OCCUPIED BY UNIDENTIFIED OBJECTS), 3 AUXILIARIES, AND NUMEROUS SMALLER SURFACE CRAFT. IN SHIPYARD -- 2 FLOATING DRY DOCKS AND NUMEROUS MERCHANT SHIPS.

POOR QUALITY PHOTOGRAPHY PRECLUDES MORE DETAILED INTERPRETATION OF FACILITIES AND VESSELS.

BITUNG PORT FACILITIES ID Ø126N 12512E

FACILITIES CONSIST OF AN OFF-SHORE WHARF, PROBABLY CONCRETE, APPROXIMATELY 1,000 FT LONG, AND CONNECTED BY 11 CROSSOVERS TO 4 LARGE WAREHOUSES.

VESSELS -- NO NAVAL VESSELS OR SUBMARINES PRESENT, TWO COASTAL MERCHANT VESSELS ALONGSIDE WHARF, TWO MERCHANT VESSELS ANCHORED IN STRAIT JUST EAST OF PORT AREA.

MAKASAR PORT FACILITIES ID Ø5Ø7S 11924E

FACILITIES INCLUDE 2 QUAYED AREAS WITH 13 LARGE WAREHOUSE-TYPE BUILDINGS, A SMALL BOAT BASIN, AND A POL STORAGE AREA.

VESSELS -- 12 MERCHANT SHIPS OF VARIOUS SIZES MOORED TO QUAYS.

25X1
25X1

25X1

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25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64



MAGADAN SHIP REPAIR YARD UR 5932N 15046E

NO APPARENT CHANGE IN FACILITIES SINCE
APR 64.

VESSELS -- 10 UNIDENTIFIED.



GORKIY SHIP REPAIR YARD 25 OKT UR 5617N 04357E

IDENTIFICATION ONLY.



KERCH NVL BASE & SHPYD KAMYSH BURUN 532 UR 4516N 03625E

NO APPARENT CHANGE IN FACILITIES SINCE
AUG 62.

VESSELS -- NO MAJOR NAVAL VESSELS, 2 MERCHANT
VESSELS, AND AT LEAST 15 MINOR CRAFT OBSERVED.



WONSAN PORT FACILITIES KN 3910N 12726E

NO APPARENT CHANGE IN FACILITIES SINCE MAY 63.

VESSELS -- NO SIGNIFICANT NAVAL CRAFT OR MERCHANT
VESSELS IN PORT AREA. NUMEROUS SMALL CRAFT PRESENT.



BELAWAN PORT FACILITIES ID 0347N 09842E

FACILITIES INCLUDE ONE 6,000 FT RAIL-SERVED QUAY
WITH APPROXIMATELY 16 LARGE SUPPORT BUILDINGS ALONG
FACE. A POL STORAGE AREA WITH 9 LARGE AND 3 SMALL



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TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64

25X1

TANKS IS TO THE SOUTH. A SECOND PDL AREA WITH 36 TANKS IS LOCATED IN MIDDLE OF QUAY. SMALL BOAT HARBOR IS LOCATED TO NE.

VESSELS -- 4 LARGE MERCHANT SHIPS AND APPROXIMATELY 9 MISCELLANEOUS VESSELS MOORED TO QUAY OR UNDERWAY IN HARBOR APPROACHES.

25X1

L LADHIQIYAH PORT FACILITIES SY 3531N 03547E
VESSELS -- 2 PROBABLE PATROL CRAFT.

25X1

BONUS AL LADHIQIYAH NAV BASE AL MINA AL BAYDAH SY 3536N 03546E
VESSELS -- 3 KOMAR² CLASS PGMG AND 3 POSSIBLE PT BOATS.

25X1

25X1

25X1

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TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64

ELECTRONICS/COMMUNICATIONS

[REDACTED] ORENBURG ELECTRONICS FACILITY UR 5143N 05458E

NO APPARENT CHANGE SINCE [REDACTED] JUL 64.

EASTERNMOST RADAR MOUND IS OCCUPIED, BUT POOR IMAGE QUALITY PRECLUDES FIRM IDENTIFICATION.

[REDACTED] TYURATAM RADIO STATION 2 UR 4536N 06316E

FACILITY IS LOCATED IMMEDIATELY SW OF THE BASE SUPPORT FACILITY AND CONSISTS OF A SQUARE SECURED ANTENNA FIELD CONTAINING A CENTRAL CONTROL BUILDING AROUND WHICH ARE FANNED AT LEAST 6 RHOMBIC ANTENNAS, 4 FISHBONE RECEIVING ANTENNAS, AND A POSSIBLE HORIZONTAL DIPOLE ANTENNA. NO MEASUREMENTS ARE POSSIBLE. THERE ARE APPROXIMATELY 7 SUPPORT BUILDINGS LOCATED AT OR NEAR THE ENTRANCE TO THE SITE.

[REDACTED] TYURATAM RADIO STATION 3 UR 4538N 06320E

PROBABLE TRANSMITTER STATION LOCATED IN THE EASTERN PORTION OF THE SUPPORT BASE CONSISTS OF A PROBABLE TRANSMITTER BUILDING AND COOLING POND. NO ANTENNAS OBSERVED.

25X1
25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64

MILITARY ACTIVITY

[REDACTED] HSIA-TA-CHEN SHAN RADAR UNIT CH 2827N 12153E

NO RADAR OR MILITARY ACTIVITY OBSERVED.

[REDACTED] JIH-TU ARMY BARRACKS NORTH TI 3327N 07942E

THREE ASSOCIATED WALLED AREAS CONTAIN APPROXIMATELY 15 BUILDINGS, APPROXIMATELY 50 TENTS OR HUTS, AND SEVERAL VEHICLES/PIECES OF EQUIPMENT.

[REDACTED] PU-LAN ARMY BARRACKS TI 3015N 08110E

AREA CONSISTS OF AT LEAST 3 WALLED AREAS CONTAINING AT LEAST 20 BUILDINGS. NO SUPPLIES, VEHICLES, ORDNANCE, OR POL STORAGE OBSERVED.

[REDACTED] AT TUR QUARANTINE BARRACKS EG 2814N 03337E

POOR IMAGE QUALITY PRECLUDES DETERMINATION OF ACTIVITY.

NO TANKS/VEHICLES OBSERVED.

[REDACTED] UIJU MILITARY INSTALLATION KN 4011N 12432E

ONLY 3 BUILDINGS OF THE INSTALLATION OBSERVED. NOT ENOUGH OF THE INSTALLATION IS OBSERVED TO DETERMINE IF IT IS MILITARY.

NO VEHICLES/EQUIPMENT OBSERVED.

25X1
25X1

25X1

25X1

25X1

25X1

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TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPJC/R-881/64



25X1
25X1

[REDACTED] SOMGUL AREA MILITARY AREAS CH 3612N 07845E

AREA CONTAINS AN ESTIMATED 20-25 BUILDINGS OR TENTS.
POOR IMAGE QUALITY PRECLUDES FURTHER INTERPRETATION.



25X1

25X1

[REDACTED] ASHKHABAD ARMY BARRACKS SOUTHEAST UR 3755N 05822E

AREA OCCUPIED.

NO TANKS OBSERVED.



25X1

25X1

[REDACTED] ASHKHABAD ARMY BARRACKS NO 1 UR 3756N 05821E

AREA IS OCCUPIED.

NO TANKS OBSERVED.



25X1

25X1

[REDACTED] ASHKHABAD ARMY BARRACKS 2 UR 3755N 05823E

THIS AREA APPEARS TO BE INCORPORATED IN ASHKHABAD
ARMY BARRACKS SE [REDACTED].



25X1

25X1

[REDACTED] NIKOLAYEV ARMY BARRACKS NORTHEAST UR 4658N 03201E

AREA APPEARS OCCUPIED AND ACTIVE.

NO TANKS OBSERVED.



25X1

25X1



25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64



NIKOLAYEV ARMY BARRACKS EAST UR 4657N 03201E

AREA APPEARS OCCUPIED AND ACTIVE.

APPROXIMATELY 50 UNIDENTIFIED VEHICLES/PIECES OF EQUIPMENT OBSERVED.



NIZHNEUDINSK ARMY BARRACKS UR 5454N 09903E

AREA ON NE EDGE OF NIZHNEUDINSK AT 54-54-55N 099-03-55E APPEARS OCCUPIED.

NO TANKS OBSERVED.



OSH ARMY BARRACKS WEST UR 4031N 07245E

AREA IS OCCUPIED AND ALL PORTIONS APPEAR TO BE IN USE.

APPROXIMATELY 20 VEHICLES/PIECES OF EQUIPMENT PARKED THROUGHOUT THE AREA.



KANDALAKSHA ARMY BARRACKS NORTH UR 6711N 03226E

INSTALLATION APPEARS TO BE CIVILIAN HOUSING. MILITARY INSTALLATION LOCATED AT 67-11N 032-20E APPEARS ACTIVE AND OCCUPIED. APPROXIMATELY 100 UNIDENTIFIED VEHICLES/PIECES OF EQUIPMENT ARE PARKED IN TWO AREAS. POOR IMAGE QUALITY PRECLUDES IDENTIFICATION.



VORONEZH ARMY BKS AND TRAINING CENTER S UR 5138N 03910E

INSTALLATION APPEARS ACTIVE.



25X1
25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64



REV4
25X1

APPROXIMATELY 20 UNIDENTIFIED VEHICLES/PIECES OF EQUIPMENT OBSERVED.



25X1



YUZHNO-SAKHALINSK BARRACKS LISTVENICHNOYE UR 4652N 14246E

25X1

IDENTIFICATION ONLY.



25X1



LUGANSK ARMY BARRACKS NORTHWEST UR 4835N 03916E

25X1

HEAVY CLOUDS AND POOR IMAGE QUALITY PRECLUDE DETERMINATION OF OCCUPANCY.

NO TANKS OBSERVED.



25X1



PETROZAVODSK ARMY BARRACKS NORTHWEST UR 6148N 03417E

25X1

AREA 25 PERCENT CLOUD COVERED. VISIBLE PORTION APPEARS TO BE INDUSTRIAL IN NATURE.

NO TANKS OBSERVED.



25X1



PETROZAVODSK ARMY BARRACKS SOUTH UR 6146N 03421E

25X1

AREA IS 75 PERCENT CLOUD COVERED. THE VISIBLE PORTION APPEARS TO BE INDUSTRIAL IN NATURE.



25X1



PETROZAVODSK ARMY BARRACKS & RR STN S UR 6147N 03419E

25X1

INSTALLATION APPEARS OCCUPIED.

NO TANKS OBSERVED.



25X1

TOP SECRET CHESS RUFF

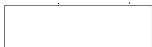
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SAMARKAND ARMY BARRACKS DZHUMUSHKABAD UR 3940N 06655E

NO BARRACKS AREA OBSERVED AT 39-40-50N 066-55-00E.
AN ACTIVE MILITARY BARRACKS INSTALLATION IS
OBSERVED AT 39-41-10N 066-53-10E. THE AREA
CONTAINS APPROXIMATELY 100 UNIDENTIFIED VEHICLES/
PIECES OF EQUIPMENT.



SAMARKAND ARMY BARRACKS SOUTHWEST UR 3938N 06657E

NO MILITARY ACTIVITY OBSERVED AT THESE COORDINATES.



LUGANSK ORDNANCE PARK NORTHWEST UR 4835N 03914E

NO MILITARY INSTALLATION OBSERVED AT THESE
COORDINATES.



DRUZHBA ARMY BARRACKS UR 4513N 08230E

AREA APPEARS ACTIVE AND OCCUPIED.

NUMEROUS VEHICLES/PIECES OF EQUIPMENT OBSERVED.



PETROZAVODSK QM DEPOT PEREVALKA N UR 6148N 03419E

VISIBLE PORTION APPEARS OCCUPIED. NO TANKS OBSERVED.



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SOFIA HQS MIN OF DEFENSE BU 4241N 02319E

NUMEROUS MULTISTORY BUILDINGS OBSERVED, BUT
SOFIA HEADQUARTERS MINISTRY OF DEFENSE CANNOT BE
IDENTIFIED.



25X11

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25X1

COMPLEXES



KUEI-LIN COMPLEX CH 2516N 11017E

NO INDICATION OF THE LEVEL OF ACTIVITY AT THE MINOR INDUSTRIAL FACILITIES IN THE COMPLEX. NO MAJOR ADDITIONS SINCE DEC 62. SEVERAL SMALL GROUPS OF BARRACKS/WAREHOUSES ARE LOCATED 2-3 NM WEST OF THE CITY. THE AIRFIELDS AND THE MILITARY INSTALLATION LOCATED NEAR THE EASTERNMOST AIRFIELD ARE NOT COVERED. ROAD AND RAILROAD FACILITIES REMAIN, BUT HIGHWAY BRIDGE APPROXIMATELY 8 NM NORTH OF TOWN IS GONE. COMPLEX IS COVERED BY FAIR-QUALITY, MEDIUM-SCALE PHOTOGRAPHY.



25X1



WEN-SHAN COMPLEX CH 2322N 10415E

IDENTIFICATION ONLY.



25X1

25X1



JIH-TU COMPLEX TI 3327N 07942E

ONE LARGE AND A SMALL WALLED MILITARY AREA OBSERVED. THE LARGE MILITARY AREA CONTAINS ONE LARGE CARAVANSARY CONSISTING OF 4 WINGS IN A SQUARE AND A LARGE BUILDING WITHIN THE SQUARE. THERE ARE 31 MULTI-PERSONNEL TENTS AND APPROXIMATELY 30 UNIDENTIFIED VEHICLES NEARBY. ONE SMALL WALLED AREA CONTAINS AN ADMINISTRATION BUILDING AND 6 LONG NARROW POSSIBLE BARRACKS. THE OTHER SMALL AREA CONTAINS ONE BUILDING AND A TALL POSSIBLE OR BUILDING. NO OTHER MILITARY ACTIVITY NOTED.



25X1



SINUJU COMPLEX KN 4006N 12424E

GOOD-QUALITY PHOTOGRAPHY REVEALS A TEXTILE PLANT, A POSSIBLE SYNTHETIC FIBER PLANT, A CEMENT/LIME PLANT, AND AN UNIDENTIFIED HEAT

25X1



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TOP SECRET CHESS RUFF

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PROCESSING PLANT AS THE MAJOR INDUSTRIAL COMPONENTS OF THE COMPLEX. OPEN STORAGE OF MATERIALS INDICATES THE CEMENT/LIME PLANT IS ACTIVE. THE STATUS OF THE OTHER PLANTS CANNOT BE DETERMINED. NO MILITARY ACTIVITY IS NOTED IN THE AREA OTHER THAN UIJU AIRFIELD. TRANSPORTATION FACILITIES CONSIST OF A MARSHALLING YARD, UIJU AIRFIELD, AND APPROXIMATELY 2,000 FT OF QUAY AREA ON THE YALU RIVER.

[Redacted]

HUN-CHUN COMPLEX CH 4252N 13021E

APPARENTLY NO MAJOR INDUSTRIAL, MILITARY, OR TRANSPORTATION FACILITIES IN OR AROUND HUN-CHUN. THE TWO AIRFIELDS WEST OF TOWN ARE ABANDONED. THERE IS ONE SMALL POSSIBLE LIGHT INDUSTRIAL FACILITY AT THE EAST END OF THE TOWN AND THE WHOLE AREA HAS ONLY A SECONDARY ROAD SYSTEM. OBSERVATIONS MADE FROM POOR-QUALITY, MEDIUM-SCALE PHOTOGRAPHY.

[Redacted]

DJAKARTA COMPLEX ID 0610S 10650E

NINETY-FIVE PERCENT OF DJAKARTA NOT COVERED. ONLY PORT FACILITY OF TANDJUNGPRIOK, 2 RAILROAD YARDS, AND BREAKWATER AT EXTREME NORTH TIP OF DJAKARTA ARE VISIBLE.

[Redacted]

MALANG COMPLEX ID 0759S 11238E

COMPLEX IS ONLY PARTIALLY COVERED. NO INDUSTRY OR MILITARY ACTIVITY OBSERVED.

[Redacted]

[Redacted]

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TOP SECRET CHESS RUFF

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[REDACTED] MEDAN COMPLEX ID 0335N 09840E

AREA APPROXIMATELY 30 PERCENT CLOUD COVERED. THIS APPEARS TO BE AN AGRICULTURAL CITY WITH NO MAJOR INDUSTRY NOTED IN THE CLOUD-FREE AREAS. HARD-SURFACED CIVIL/MILITARY AIRFIELDS HAS 3 BEAGLE, 2 BADGER/CAMEL, ONE CAT/CUB, 3 POSSIBLE SMALL SWEEP-WING, AND ONE SMALL STRAIGHT-WING AIRCRAFT.

NO OTHER MILITARY INSTALLATIONS NOTED.

[REDACTED] SURABAJA COMPLEX ID 0715S 11245E

NO APPARENT CHANGE SINCE [REDACTED] APR 63.

[REDACTED] CHONGJIN AREA, MILITARY INSTALLATION KN 4146N 12946E IDENTIFICATION ONLY.

[REDACTED] KRASNOVODSK COMPLEX UR 4000N 05300E

MAJOR INDUSTRIAL COMPONENTS CONSIST OF OIL REFINING, STORAGE, AND SHIPPING FACILITIES SERVED BY WATER, ROAD, AND RAIL. THERE ARE TWO RAIL YARDS, ONE IN KRASNOVODSK, THE OTHER AT UFRA. TWO PIERS AT UFRA APPEAR TO BE UNDERGOING MODIFICATION. A PARTIALLY COMPLETED SHIP CANAL LEADING TO THE KRASNOVODSK REFINERY SUGGESTS THAT PIERS AND OTHER SHIPPING FACILITIES WILL BE BUILT THERE. FOUR CARGO SHIPS, TWO TANKERS, AND NUMEROUS SMALL CRAFT ARE TIED UP AT THE PIERS OF THE TWO CITIES. NO INDUSTRIAL SMOKE IS VISIBLE. THE KRASNOVODSK AIRFIELD IS THE ONLY EVIDENT MILITARY FACILITY. OBSERVATIONS MADE ON MEDIUM SCALE, FAIR-QUALITY, NON-STEREO PHOTOGRAPHY.

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TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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[REDACTED] MEDAN PETROLEUM PRODUCT STORAGE GROUP UG ID 0336N 09840E

AREA CONSISTS OF 3 SMALL TANKS, 2 WAREHOUSES,
AND OPEN STORAGE. NO CONSTRUCTION OBSERVED.

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25X1

[REDACTED] TOMSK COMPLEX UR 5630N 08456E

COMPLEX IS 30 PERCENT CLOUD COVERED. SOUTHERN PART
IS VISIBLE ON FAIR-QUALITY PHOTOGRAPHY.
NO SIGNIFICANT NEW CONSTRUCTION OR CHANGES TO MAJOR
FACILITIES SINCE [REDACTED] APR 63, OBSERVED.
SMOKE AND STEAM OBSERVED AT THERMAL POWER PLANT
TETS 2.

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TOP SECRET CHESS RUFF

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OTHER ACTIVITY

NYANDOMA SENSITIVE OPERATIONS COMPLEX UR 6139N 04015E

25X1

OPERATIONS AREA AND SECTION OF OPERATIONS SUPPORT RAIL FACILITY WHERE FAGOT AIRCRAFT WERE OBSERVED ON [REDACTED] APR 64, ARE CLOUD COVERED. ROLLING STOCK IS STILL PRESENT IN RAIL FACILITY. FIVE LARGE MULTISTORY BARRACKS AND A MESS HALL ARE COMPLETED AND 3 LARGE BARRACKS ARE UNDER CONSTRUCTION IN THE MAIN HOUSING AREA.

25X1

LIU-HO U/I TUNNELING OPERATION CH 4212N 12543E

25X1

25X1

AN APPARENTLY NARROW GAUGE RAIL SPUR LEADS FROM THE ENTRANCE OF THE SOUTH TUNNELING OPERATION APPROXIMATELY 3 NM NW TO SPOIL/ORE PILES AT THE ITUNG RIVER. A RAIL SPUR BRANCHES OUT NEAR THE SW END OF THE LIU HO AIRFIELD RUNWAY AND GOES AROUND THE NW AND NORTH SIDES OF THE AIRFIELD TO A LOADING AREA BY THE MAIN RAIL LINE AT A POINT ABOUT ONE NM NE OF LIU HO.

PROBABLE MINING MACHINERY IS LOCATED AT THE ENTRANCE TO THE SOUTH TUNNEL AND 2 NEW TUNNELS ARE APPARENTLY BEING STARTED, ONE TO THE NORTH AND ANOTHER TO THE SOUTH. NEW BARRACKS FOR WORKERS ARE LOCATED NEARBY.

A PROBABLE RAIL BED, PROBABLY FOR A SPUR FROM THE NARROW GAUGE LINE, IS BEING CONSTRUCTED TO THE ENTRANCE OF THE SW TUNNELING OPERATION. A NEW TUNNEL IS POSSIBLY BEING STARTED IMMEDIATELY TO THE NORTH.

NO SECURITY IS EVIDENT AT EITHER OF THE LOCATIONS.

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25X1

TOP SECRET CHESS RUFF

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INDEX OF COMOR TARGETS

THIS SECTION CONTAINS A COMPOSITE LIST, BY COMOR TARGET NUMBER, OF ALL TARGETS WHICH COULD BE ADEQUATELY IDENTIFIED DURING THE SCAN OF MISSION 4011.

COMOR	INSTALLATION NAME	CTY	COORDINATES
	TYURATAM LAUNCH COMPLEX A (SITES 1, 15)	UR	4555N 06320E II
	TYURATAM LNCH COMPLEX B (SITES 2, 16, 17)	UR	4559N 06333E II
	TYURATAM LAUNCH COMPLEX I (SITE 14)	UR	4555N 06326E II
	TYURATAM COMPLEX J	UR	4554N 06316E II
	TYURATAM MAIN SUPPORT BASE	UR	4538N 06317E II
	DROVYANAYA ICBM LAUNCH AREA A (SITE 1)	UR	5125N 11300E I
	DROVYANAYA ICBM LAUNCH AREA B (SITE 2)	UR	5125N 11304E I
	DROVYANAYA ICBM LAUNCH AREA D (SITE 3)	UR	5120N 11301E I
	DROVYANAYA ICBM LAUNCH AREA E (SITE 5)	UR	5122N 11250E I
	DROVYANAYA ICBM LAUNCH AREA F (SITE 6)	UR	5120N 11254E I
	SHADRINSK ICBM LAUNCH AREA A (SITE 1)	UR	5608N 06351E II
	SHADRINSK ICBM LAUNCH AREA B (SITE 2)	UR	5609N 06402E II
	SHADRINSK ICBM LAUNCH AREA C (SITE 3)	UR	5606N 06356E II
	NOVOSIBIRSK ICBM LAUNCH AREA A (SITE 2)	UR	5519N 08309E I
	ZHANGIZ-TOBE ICBM COMPLEX	UR	4912N 08110E I
	ZHANGIZ-TOBE ICBM LAUNCH AREA A (SITE 1)	UR	4911N 08100E I
	ZHANGIZ-TOBE ICBM LAUNCH AREA B (SITE 2)	UR	4915N 08059E I
	ZHANGIZ-TOBE ICBM SUPPORT FACILITY	UR	4912N 08110E I
	ALEYSK ICBM COMPLEX	UR	5229N 08243E II
	ALEYSK ICBM LAUNCH AREA A (SITE 1)	UR	5228N 08236E II
	ALEYSK ICBM LAUNCH AREA B (SITE 2)	UR	5230N 08240E II
	ALEYSK ICBM LAUNCH AREA C (SITE 3)	UR	5233N 08245E II
	ALEYSK ICBM LAUNCH AREA D (SITE 4)	UR	5232N 08234E II
	BARANO-ORENBURGSKOYE MRBM LAUNCH SITE	UR	4419N 13130E I
	LUTSK MRBM LAUNCH SITE 2	UR	5050N 02503E I
	LUTSK MRBM LAUNCH SITE 1	UR	5046N 02504E I
	BAYRAM-ALI IRBM LAUNCH SITE	UR	3746N 06212E I
	BOLSHAYA KAMENKA IRBM LAUNCH SITE	UR	5145N 04541E I
	KAPUSTIN YAR LAUNCH COMPLEX A	UR	4842N 04615E II
	KAPUSTIN YAR LAUNCH COMPLEX B	UR	4841N 04616E II
	KAPUSTIN YAR LNCH CMLX C (SITES 2, 4-9)	UR	4836N 04616E II
	KAPUSTIN YAR LAUNCH COMPLEX E (SITE 3)	UR	4846N 04618E II
	SARY-SHAGAN SITE 13	UR	4636N 07432E II
	SARY-SHAGAN POSS INSTRUMENTATION SITE 14	UR	4707N 06910E I
	GORKIY ARMT PLT NOVOYE SORMOVO/STALIN 92	UR	5620N 04354E I
	UFA AIRCRAFT ENGINE PLANT B-26	UR	5447N 05604E I

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VORONEZH ROCKET TEST FACILITY	UR 5134N 03908E	II
STERLITAMAK STATIC TEST FACILITY	UR 5341N 05558E	I
UFA STATIC TEST FACILITY	UR 5459N 05604E	II
BIYSK STATIC TEST FACILITY	UR 5229N 08507E	II
MIKHAYLOVKA SENSITIVE OPERATIONS COMPLEX	UR 4849N 03217E	I
SEVERODVINSK NAVAL BASE AND SHIPYARD 402	UR 6434N 03949E	II
GUBA SAYDA PROB NAVAL MISSILE STORAGE	UR 6915N 03320E	I
GUBA SAYDA SUBMARINE BASE	UR 6915N 03321E	I
VLADIMIR SUBMARINE BASE	UR 4355N 13528E	I
KALININGRAD SUSP NAVAL MISSILE STORAGE	UR 5450N 02028E	II
KALININGRAD PORT FACILITIES EAST	UR 5442N 02029E	II
ANTIPINSKOYE SAM ACTIVITY	UR 5254N 11332E	I
OLENEGORSK SUSP AMM ASSOCIATED ACTIVITY	UR 6806N 03355E	I
CHEREPOVETS SUSP AMM/SAM LNCH COMPLEX U/C	UR 5906N 03810E	II
DJAKARTA SAM SITE TJILINTJING A06 2	ID 0605S 10656E	I
OLENEGORSK SAM SITE B11-0	UR 6804N 03408E	I
SEVERODVINSK SAM SITE B02-3	UR 6446N 03959E	I
TYURATAM MSL TEST CENTER SAM SITE B21A-2	UR 4542N 06320E	I
MOSCOW SAM SITE C16-1	UR 5522N 03758E	I
KALININGRAD SAM SITE B02-2	UR 5453N 02033E	I
AL ISKANDARIYAH SAM SITE B05-2	EG 3118N 03003E	I
MURMANSK SUSPECT SAM SITE C02-3	UR 6923N 03328E	I
BARANOVICHI AIRFIELD	UR 5306N 02603E	I
OSTROV GREEN-BELL AIRFIELD	UR 8113N 06427E	II
MOZDOK AIRFIELD	UR 4347N 04436E	II
PITU AIRFIELD	ID 0202N 12819E	II
KALININGRAD/PROVEREN AIRFIELD	UR 5446N 02025E	I
PRILUKI AIRFIELD	UR 5034N 03219E	II
ANADYR/LENINKA AIRFIELD	UR 6442N 17742E	II
ABDULRACHMAN SALEH AIRFIELD	ID 0755S 11242E	II
HASANUDDIN AIRFIELD	ID 0503S 11932E	II
RAMAT DAVID AIRFIELD	IS 3239N 03510E	II
SEVEROMORSK AIRFIELD	UR 6901N 03325E	I
KAZAN AIRFRAME PLANT GORBUNOV 22	UR 5552N 04907E	II
RAMENSKOYE AIRCRAFT EXPERIMENTAL PLANT	UR 5535N 03807E	I
GORKIY AIRFRAME PLANT ORDZHONIKIDZE 21	UR 5620N 04352E	II
GORKIY/SOROMOVO AIRFIELD	UR 5619N 04348E	II
KRASNOVODSK AIRFIELD	UR 4004N 05300E	I
AN-TUNG AIRFIELD	CH 4001N 12417E	II
CHAN-CHIANG AIRFIELD	CH 2113N 11020E	II
KU-SHAN-TZU AIRFIELD	CH 4201N 12544E	II
HUAI-TE AIRFIELD	CH 4332N 12447E	II
LIEN-CHENG AIRFIELD	CH 2540N 11645E	II
LIU-HO AIRFIELD	CH 4216N 12542E	II
NEN-CHIANG AIRFIELD NORTH	CH 4914N 12521E	II
UIJU AIRFIELD	KN 4009N 12430E	II

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WONSAN AIRFIELD	KN 3909N 12729E	I
AMAHAI AIRFIELD	ID 0321S 12854E	II
PENFUI AIRFIELD	ID 1010S 12339E	II
HABBANIYAH AIRFIELD	IQ 3322N 04334E	II
DAYR AZ ZAWR AIRFIELD SOUTH	SY 3517N 04011E	II
AFRIKANDA AIRFIELD	UR 6727N 03247E	I
MARIENGF AIRFIELD	UR 5452N 02011E	I
HAI-LA-ERH AIRFIELD SOUTHWEST	CH 4909N 11941E	II
GABROVNITSA AIRFIELD	BU 4333N 02316E	I
BUDAPEST/TOKOL AIRFIELD	HU 4721N 01859E	II
BUREVESTNIK AIRFIELD	UR 4454N 14738E	II
WARSAW/BOERNEROWO AIRFIELD	PO 5216N 02055E	I
KU-CHE AIRFIELD	CH 4144N 08259E	I
MONCHEGORSK AIRFIELD	UR 6758N 03301E	I
KOKAYTY AIRFIELD	UR 3737N 06731E	II
PREZE AIRFIELD	AL 4125N 01944E	II
WARSAW/OKECIE AIRFIELD	PO 5211N 02058E	II
POWIDZ AIRFIELD	PO 5223N 01751E	II
PETROZAVODSK AIRFIELD NORTHWEST	UR 6153N 03408E	I
YEFREMOV AIRFIELD	UR 5308N 03813E	I
ASHKHABAD AIRFIELD NORTHWEST	UR 3758N 05821E	II
SUKHUMI/DRANDA AIRFIELD	UR 4252N 04107E	I
NIKOLAYEV/KULBAKINO AIRFIELD	UR 4656N 03205E	II
ORENBURG AIRFIELD SOUTHWEST	UR 5143N 05504E	II
LODEYNOYE POLE AIRFIELD	UR 6042N 03333E	II
RAS BANAS AIRFIELD	EG 2358N 03528E	II

KERCH/BAGEROVO AIRFIELD	UR 4524N 03616E	I
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CHAN-CHIANG NAVAL BASE	CH 2112N 11025E	I
TANDJUNGPRIOK PORT FACILITIES	ID 0606S 10652E	I
SURABAJA NAVAL BASE AND SHIPYARD	ID 0712S 11244E	II
BITUNG PORT FACILITIES	ID 0126N 12512E	II
MAKASAR PORT FACILITIES	ID 0507S 11924E	II
LIEPAJA NAVAL BASE AND SHIPYARD	UR 5633N 02102E	I
MAGADAN SHIP REPAIR YARD	UR 5932N 15046E	II
GORKIY SHIP REPAIR YARD 25 OKT	UR 5617N 04357E	II
KERCH NVL BASE & SHPYD KAMYSH BURUN 532	UR 4516N 03625E	II

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WONSAN PORT FACILITIES	KN 3910N 12726E	II
BELAWAN PORT FACILITIES	ID 0347N 09842E	II
AL LADHIQIYAH PORT FACILITIES	SY 3531N 03547E	II
AL ISKANDARIYAH PORT FACILITIES	EG 3111N 02952E	I

TYURATAM INSTRUMENTATION SITE	UR 5014N 06510E	I
BEKDASH INSTRUMENTATION SITE	UR 4131N 05234E	I
ORENBURG ELECTRONICS FACILITY	UR 5143N 05458E	II
TYURATAM INSTRUMENTATION SITE	UR 4655N 06325E	I
TYURATAM INSTRUMENTATION SITE	UR 4810N 06833E	I
TYURATAM RADIO STATION 2	UR 4536N 06316E	II
TYURATAM RADIO STATION 3	UR 4538N 06320E	II
EMBA MISSILE TRACKING FACILITY	UR 4836N 05809E	I
NIZHNIYE KRESTY SUSP TROPOSCATTER SITE	UR 6928N 16121E	I
NES RADAR SITE	UR 6636N 04440E	I
MYS ZHELANIYA TALL KING RADAR	UR 7655N 06825E	I
MYS KARASEVEY TALL KING RADAR	UR 7110N 06655E	I
AMDERMA TALL KING RADAR	UR 6945N 06121E	I
TALDOM AREA HF RADIO TRANSMITTING STATION	UR 5644N 03736E	I
NIKOLAYEV AREA COMMUNICATIONS SITE	UR 4649N 03212E	I
CHANG-CHI ARMY BARRACKS SOUTH	CH 2343N 11652E	I
HSIA-TA-CHEN SHAN RADAR UNIT	CH 2827N 12153E	II
JIH-TU ARMY BARRACKS NORTH	TI 3327N 07942E	II
PU-LAN ARMY BARRACKS	TI 3015N 08110E	II
GYA PROBABLE MILITARY STOR AREA	TI 3006N 09509E	I
AT TUR QUARANTINE BARRACKS	EG 2814N 03337E	II
LEI-PEI AREA MILITARY AREAS	CH 2122N 11016E	I
UIJU MILITARY INSTALLATION	KN 4011N 12432E	II
HU-HO-HAO-TE HQ INNER MONGOLIA MD	CH 4050N 11140E	I
SOMGUL AREA MILITARY AREAS	CH 3612N 07845E	II
ASHKHABAD ARMY BARRACKS SOUTHEAST	UR 3755N 05822E	II
ASHKHABAD ARMY BARRACKS NO 1	UR 3756N 05821E	II
ASHKHABAD ARMY BARRACKS 2	UR 3755N 05823E	II
BARANOVICHI ARMY BARRACKS EAST	UR 5307N 02602E	I
BAYRAM-ALI ARMY BARRACKS SOUTHEAST	UR 3737N 06210E	I
KALININGRAD BARRACKS OBERTEICH SOUTHWEST	UR 5443N 02030E	I
NIKOLAYEV ARMY BARRACKS NORTHEAST	UR 4658N 03201E	II
NIKOLAYEV ARMY BARRACKS EAST	UR 4657N 03201E	II
NIZHNEUDINSK ARMY BARRACKS	UR 5454N 09903E	II
ORENBURG AAA BARRACKS EAST	UR 5146N 05507E	I

TOP SECRET CHESS RUFF

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DSH ARMY BARRACKS WEST	UR	4031N	07245E	II
KALININGRAD ARMY BARRACKS BALLIT	UR	5445N	02030E	I
KALININGRAD ARMY BARRACKS NORTHWEST	UR	5444N	02027E	I
KALININGRAD ARMY BARRACKS NORTHEAST	UR	5443N	02031E	I
KALININGRAD ARMY BARRACKS SOUTHWEST	UR	5441N	02028E	I
KALININGRAD ARMY BARRACKS PONART	UR	5440N	02028E	I
KALININGRAD ARMY BARRACKS KUMMERAU	UR	5444N	02032E	I
KALININGRAD ARMY BARRACKS ROTHENSTEIN	UR	5444N	02032E	I
KALININGRAD ARMY BARRACKS SHARLOTTENBURG	UR	5444N	02027E	I
TAMBOV ARMY BARRACKS SOUTH	UR	5240N	04128E	I
ULAN-UDE BARRACKS AND HQ 71ST TANK DIV	UR	5154N	10731E	I
KANDALAKSHA ARMY BARRACKS NORTH	UR	6711N	03226E	II
KEMEROVO MILITARY BARRACKS PRAVOI TOM	UR	5523N	08559E	I
VORONEZH ARMY BKS AND TRAINING CENTER S	UR	5138N	03910E	II
YUZHNO-SAKHALINSK ARMY BARRACKS NE	UR	4659N	14245E	I
YUZHNO-SAKHALINSK BKS BOLSHAYA YELAN	UR	4655N	14244E	I
YUZHNO-SAKHALINSK BKS KHRISTOFOROVKA	UR	4653N	14246E	I
YUZHNO-SAKHALINSK BARRACKS LISTVENICHNOYE	UR	4652N	14246E	II
LIELAJA ARMY DEPOT KARA OSTA	UR	5633N	02103E	I
LIELAJA ARMY BARRACKS NORTH	UR	5633N	02101E	I
LIELAJA BARRACKS NORTH	UR	5634N	02101E	I
LIELAJA HQ 51ST GUARDS MTZ RIFLE DIV	UR	5631N	02100E	I
LUGANSK ARMY BARRACKS NORTHWEST	UR	4835N	03916E	II
PETROZAVODSK ARMY BARRACKS NORTHWEST	UR	6148N	03417E	II
PETROZAVODSK ARMY BARRACKS SOUTH	UR	6146N	03421E	II
PETROZAVODSK ARMY BARRACKS & RR STN S	UR	6147N	03419E	II
SAMARKAND ARMY BARRACKS DZHUMUSHKABAD	UR	3940N	06655E	II
SAMARKAND ARMY BARRACKS SOUTHWEST	UR	3938N	06657E	II
SEVERO-KURILSK ARMY BARRACKS WEST	UR	5041N	15607E	I
SEVERO-KURILSK ARMY BARRACKS SOUTH	UR	5040N	15608E	I
SUKHUMI ARMY BARRACKS SOUTHEAST	UR	4259N	04102E	I
KALININGRAD MILITARY TRAINING AREA	UR	5445N	02017E	I
LUGANSK ORDNANCE PARK NORTHWEST	UR	4835N	03914E	II
MI-TU ARMY BARRACKS	CH	2521N	10028E	I
LIN-TSANG ARMY BKS AND HQ 40TH INF DIV	NECH	2353N	10005E	I
CHAN-CHIANG AREA MILITARY INSTALLATION	CH	2116N	11019E	I
DRUZHBA ARMY BARRACKS	UR	4513N	08230E	II
PETROZAVODSK QM DEPOT PEREVALKA N	UR	6148N	03419E	II
YUZHNO-SAKHALINSK ARMY SUP DPO 1 PUG	UR	4658N	14244E	I
YUZHNO-SAKHALINSK ARMY SUP DPO 2 PUG	UR	4657N	14243E	I
ULAN-UDE ARMY SUPPLY DPO UDA RIVER SOUTH	UR	5149N	10741E	I
ULAN-UDE ARMY SUPPLY DEPOT	UR	5149N	10736E	I
SOFIA HQS MIN OF DEFENSE	BU	4241N	02319E	II
NAGYATAD ARMY BARRACKS 2	HU	4611N	01721E	I
NAGYATAD HEADQUARTERS BARRACKS 3	HU	4613N	01720E	I
TAPOLCA ARMY BARRACKS 1	HU	4653N	01723E	I

TOP SECRET CHESS RUFF

25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64

TAPOLCA ARMY BARRACKS 2 ODOROGD	HU 4657N 01726E I
WARSAW ARMY SUPPLY DPO SLUZEWIEC SW	PO 5210N 02059E I
WARSAW ARMY BARRACKS WYGLEDOW	PO 5211N 02058E I
WARSAW HQ WARSAW MILITARY DISTRICT	PO 5216N 02100E I
KUEI-LIN COMPLEX	CH 2516N 11017E II
WEN-SHAN COMPLEX	CH 2322N 10415E II
JIH-TU COMPLEX	TI 3327N 07942E II
SINUIJU COMPLEX	KN 4006N 12424E II
HUN-CHUN COMPLEX	CH 4252N 13021E II
DJAKARTA COMPLEX	ID 0610S 10650E II
MALANG COMPLEX	ID 0759S 11238E II
MEDAN COMPLEX	ID 0335N 09840E II
SURABAJA COMPLEX	ID 0715S 11245E II
CHONGJIN AREA, MILITARY INSTALLATION	KN 4146N 12946E II
KRASNOVODSK COMPLEX	UR 4000N 05300E II
MEDAN PETROLEUM PRODUCT STORAGE GROUP UG	ID 0336N 09840E II
PITU PETROLEUM PRODUCT STORAGE	ID 0202N 12817E I
TOMSK COMPLEX	UR 5630N 08456E II
NYANDOMA SENSITIVE OPERATIONS COMPLEX	UR 6139N 04015E II
LIU-HU U/I TUNNELING OPERATION	CH 4212N 12543E II

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25X1

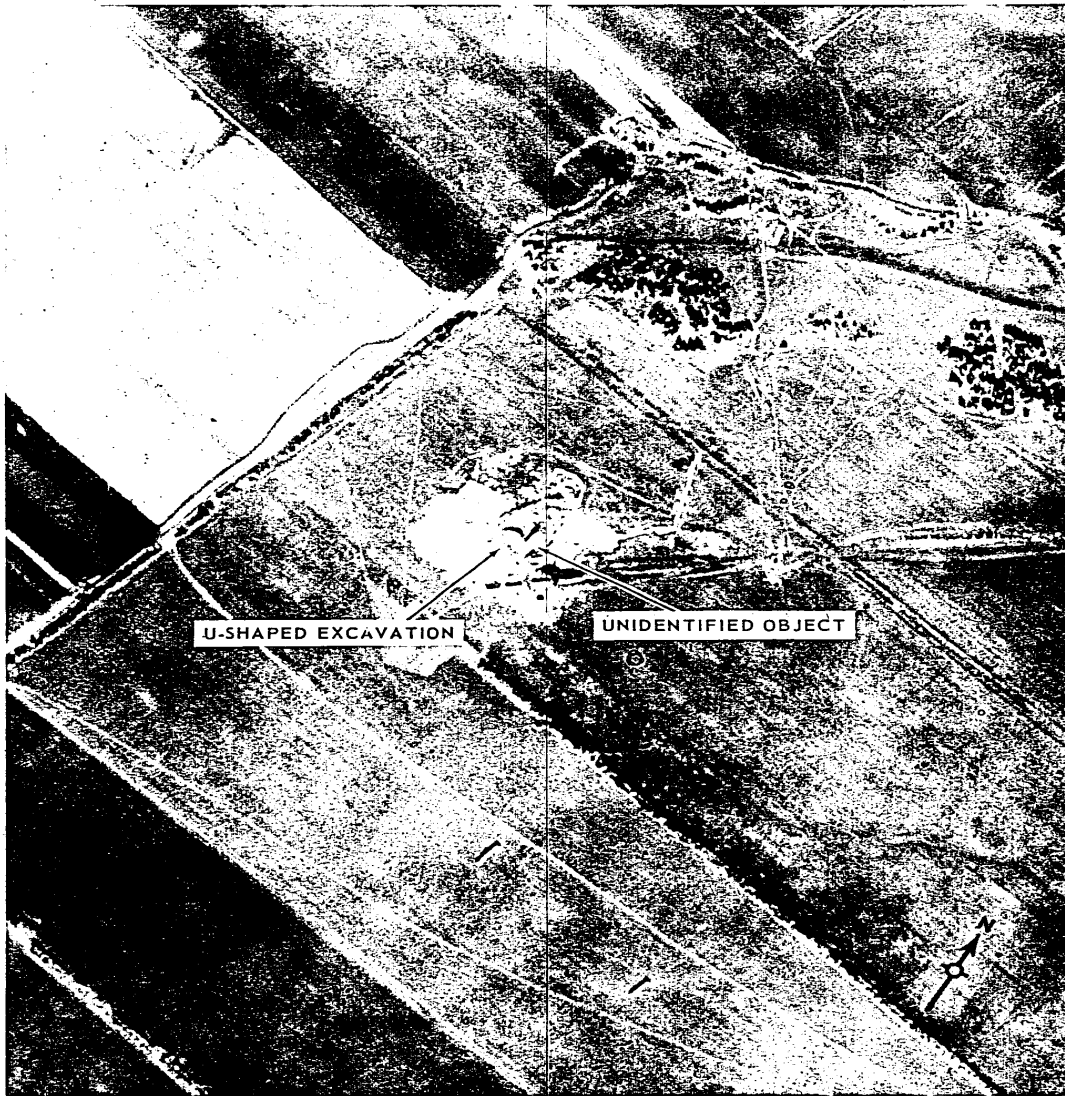
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MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64
ATTACHMENT 1

25X1



U-SHAPED EXCAVATION

UNIDENTIFIED OBJECT

LAUNCH AREA A, ALEYSK ICBM COMPLEX, USSR

NPIC J-4412 (10/64)

25X1

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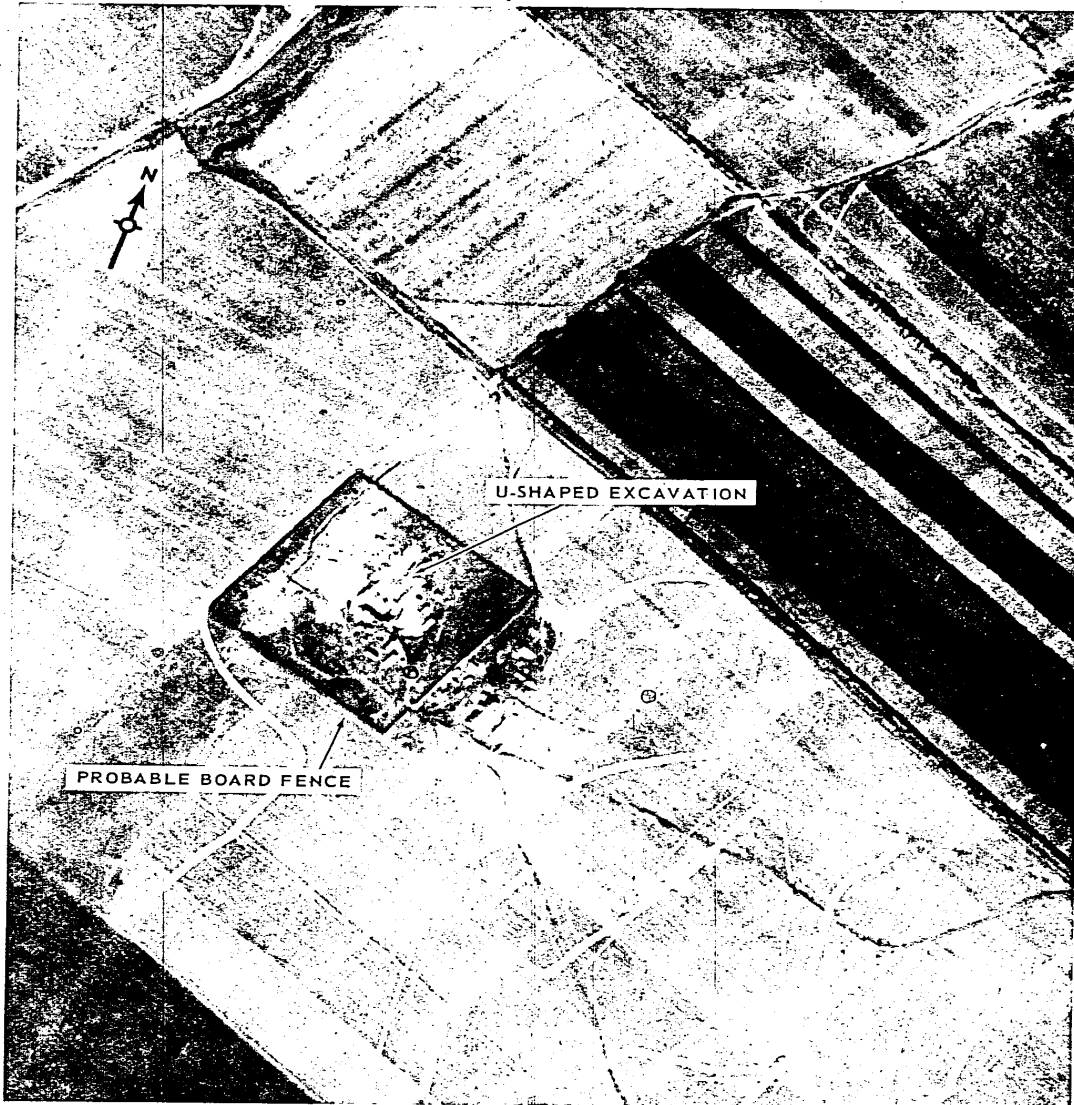
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MISSION-4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64
ATTACHMENT 2

25X1

25X1



LAUNCH AREA B, ALEYSK ICBM COMPLEX, USSR

NPIC J-4413 (10/64)

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64
ATTACHMENT 3

25X1
25X1



LAUNCH AREA C, ALEYSK ICBM COMPLEX, USSR

NPIC J-4414 (10/64)

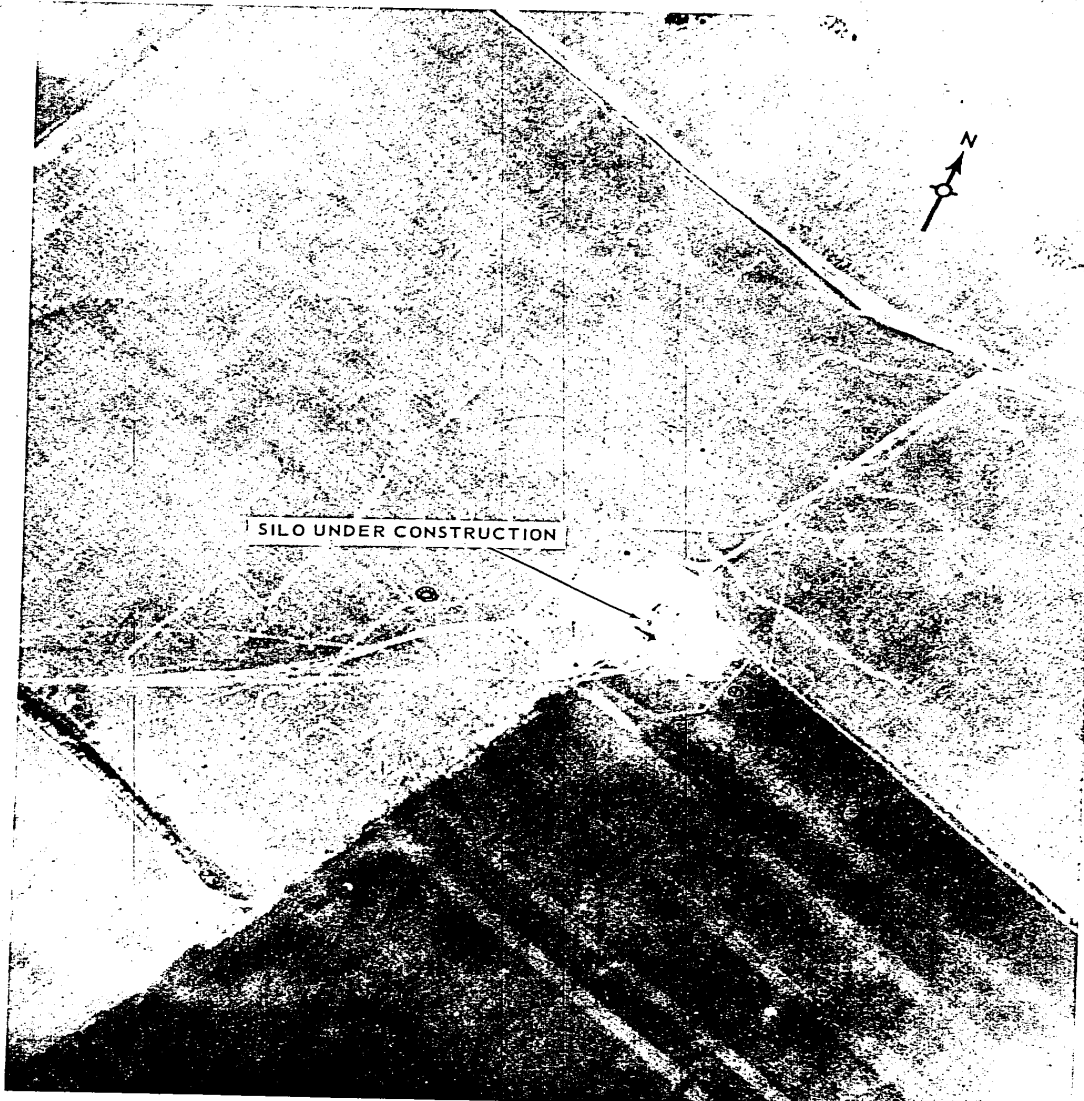
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64
ATTACHMENT 4



LAUNCH AREA D, ALEYSK ICBM COMPLEX, USSR

NPIC J-4415 (10/64)

TOP SECRET CHESS RUFF

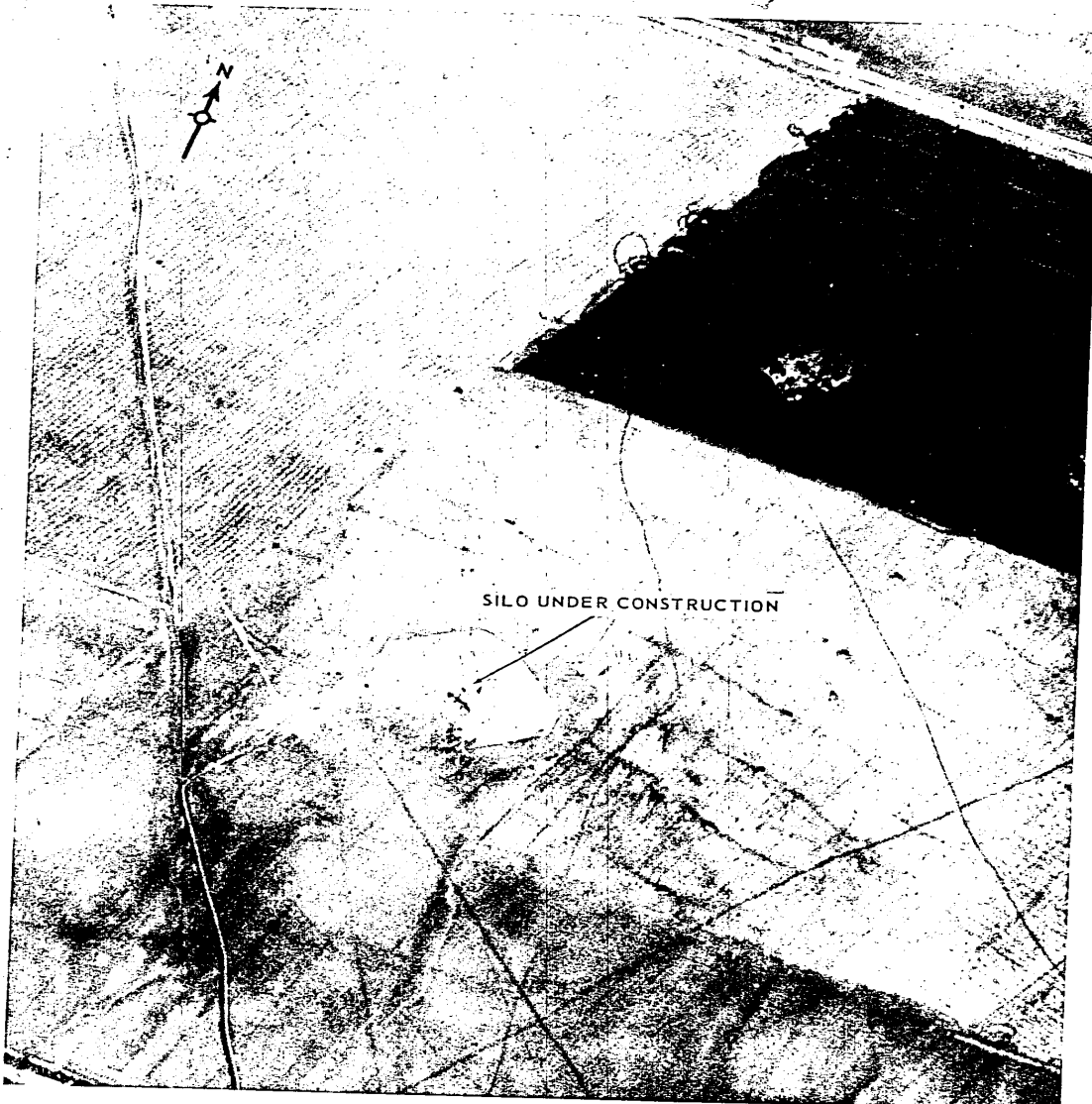
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TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64
ATTACHMENT 5



LAUNCH AREA E, ALEYSK ICBM COMPLEX, USSR

NPIC J-4416 (10/64)

TOP SECRET CHESS RUFF

25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64
ATTACHMENT 6



LAUNCH AREA F, ALEYSK ICBM COMPLEX, USSR

NPIC J-4417 (110/64)

TOP SECRET CHESS RUFF

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25X1

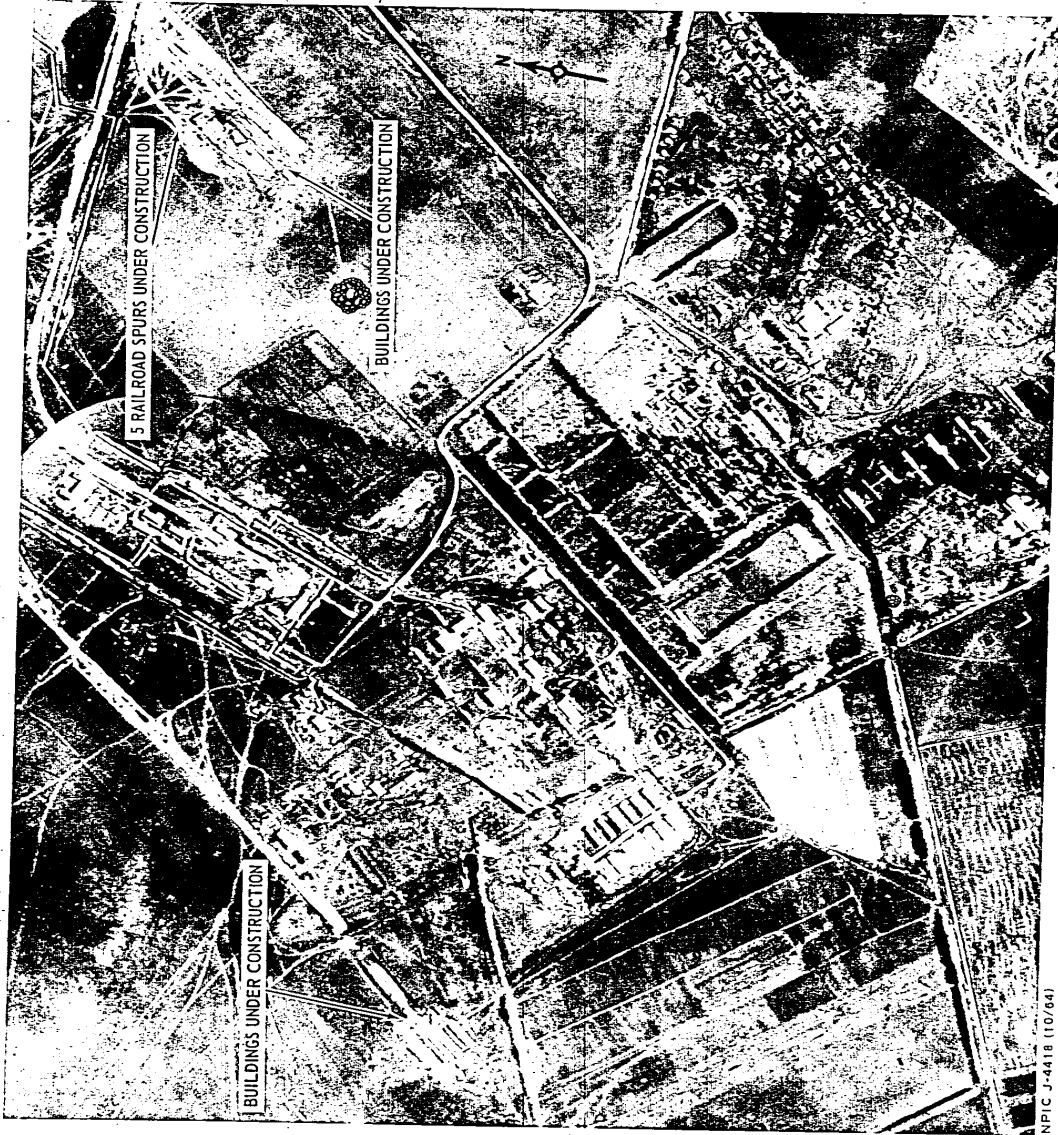
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TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64
ATTACHMENT 7

25X1
25X1



TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64
ATTACHMENT 8

25X1



PROBABLE MISSILE EXERCISE

NPIC J-4419 (110/64)

LAUNCH COMPLEX A, KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR

TOP SECRET CHESS RUFF

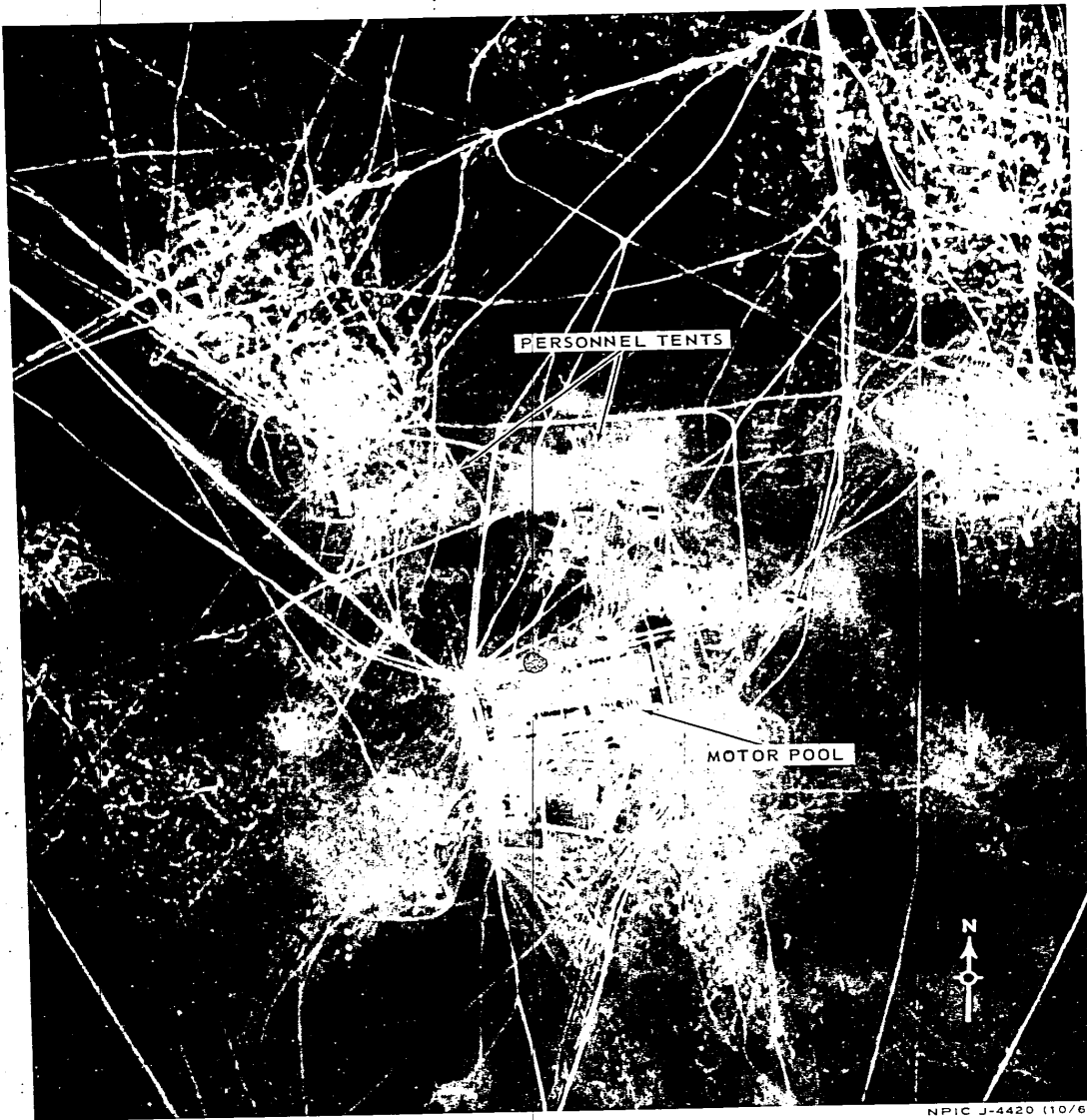
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TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64
ATTACHMENT 9

25X1



NPIC J-4420 (110/64)

NEW BIVOUAC/TRAINING AREA WEST OF LAUNCH COMPLEX B, KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR

TOP SECRET CHESS RUFF

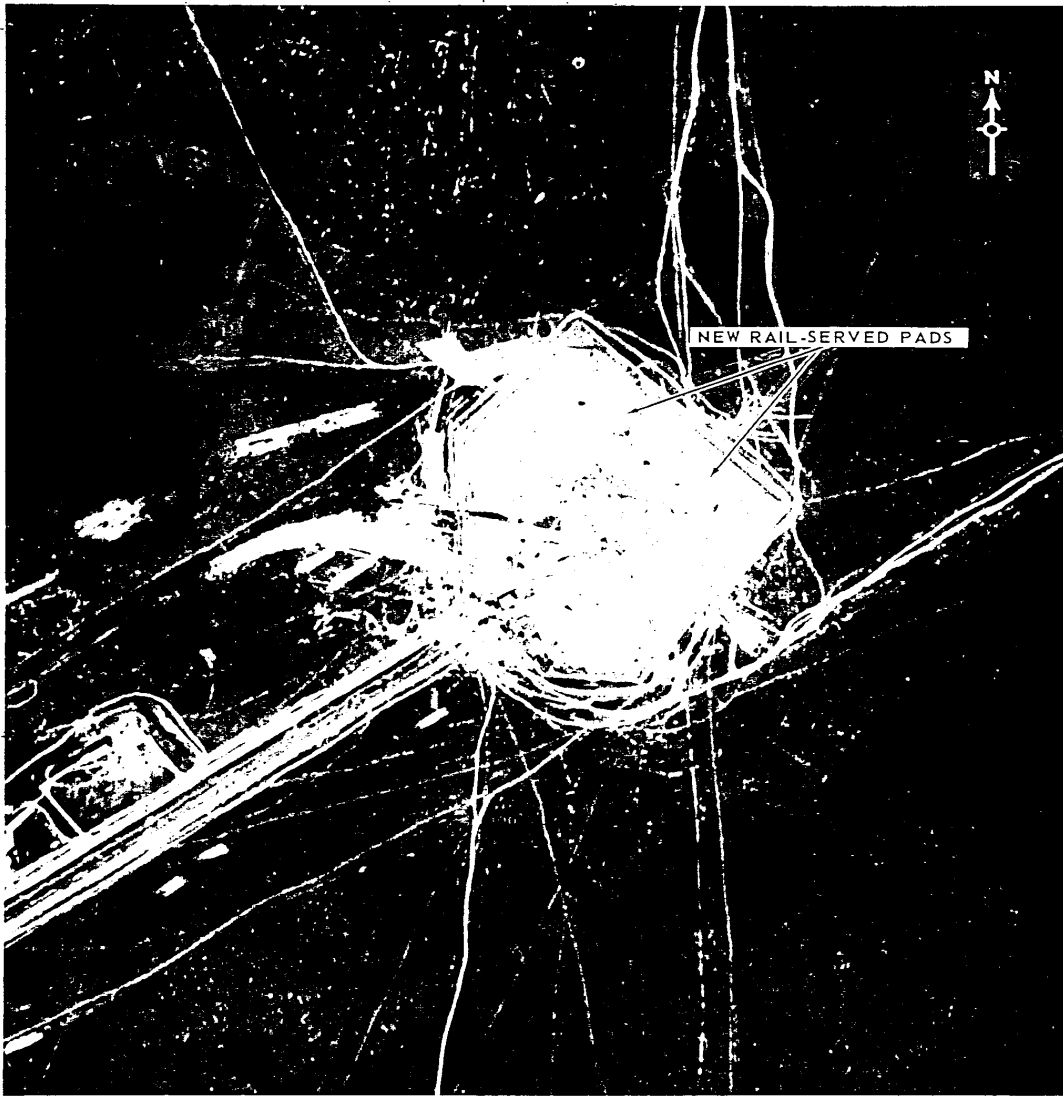
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TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64
ATTACHMENT 10

25X1



NPIC J-4421 (10/64)
LAUNCH AREA 1C, KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

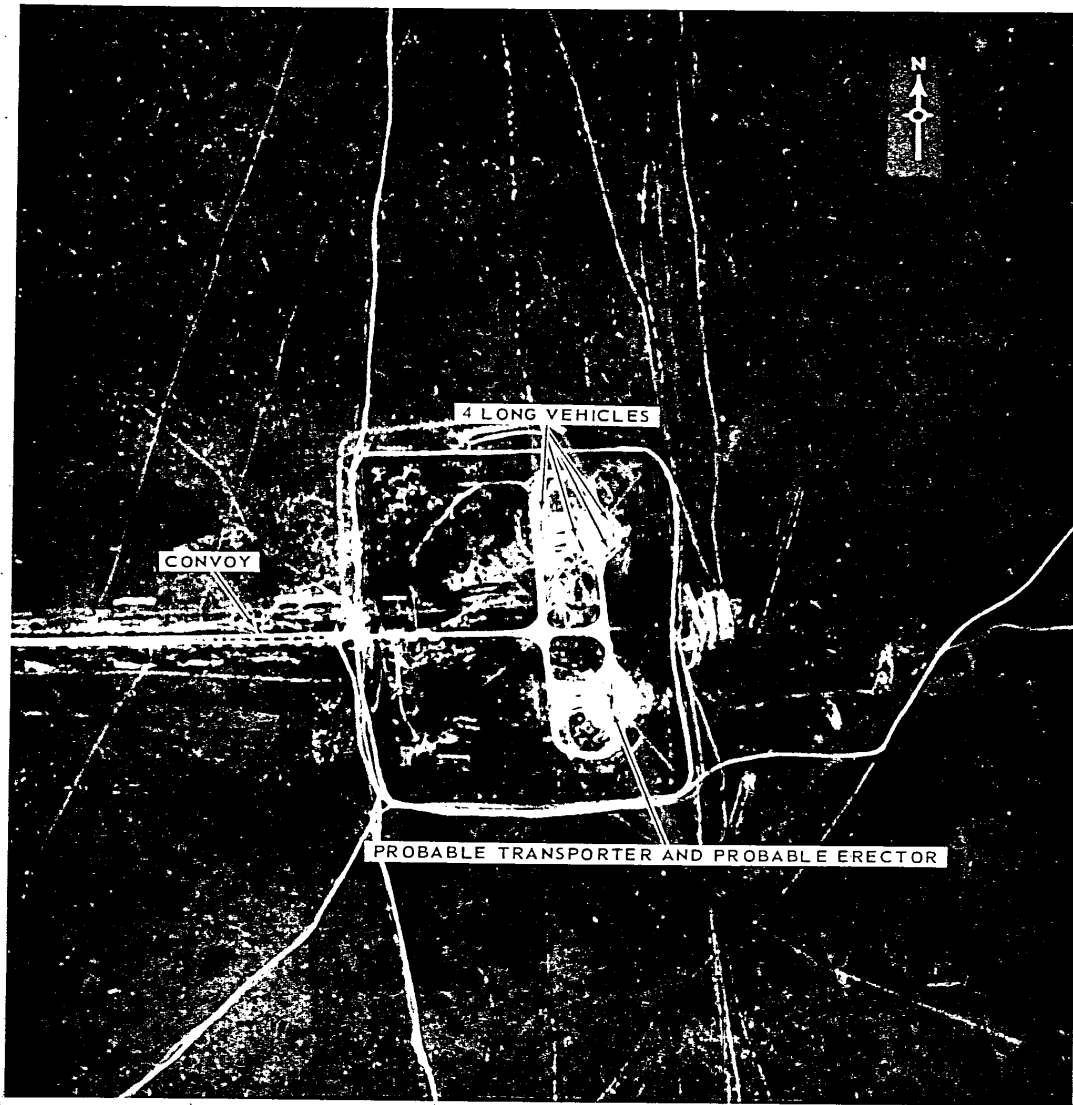
MISSION 4011, 24-27 SEPTEMBER 1964



NPIC/R-881/64
ATTACHMENT 11

25X1

25X1



LAUNCH AREA 2C, KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR

NPIC J-4422 (10/64)

TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964.

NPIC/R-881/64
ATTACHMENT 12

25X1
25X1



LAUNCH AREA 3C, KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR

NPIC J-4423 (10/64)

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64
ATTACHMENT 13

25X1
25X1



LAUNCH AREA 4C, KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR

NPIC J-4424 (10/64)

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

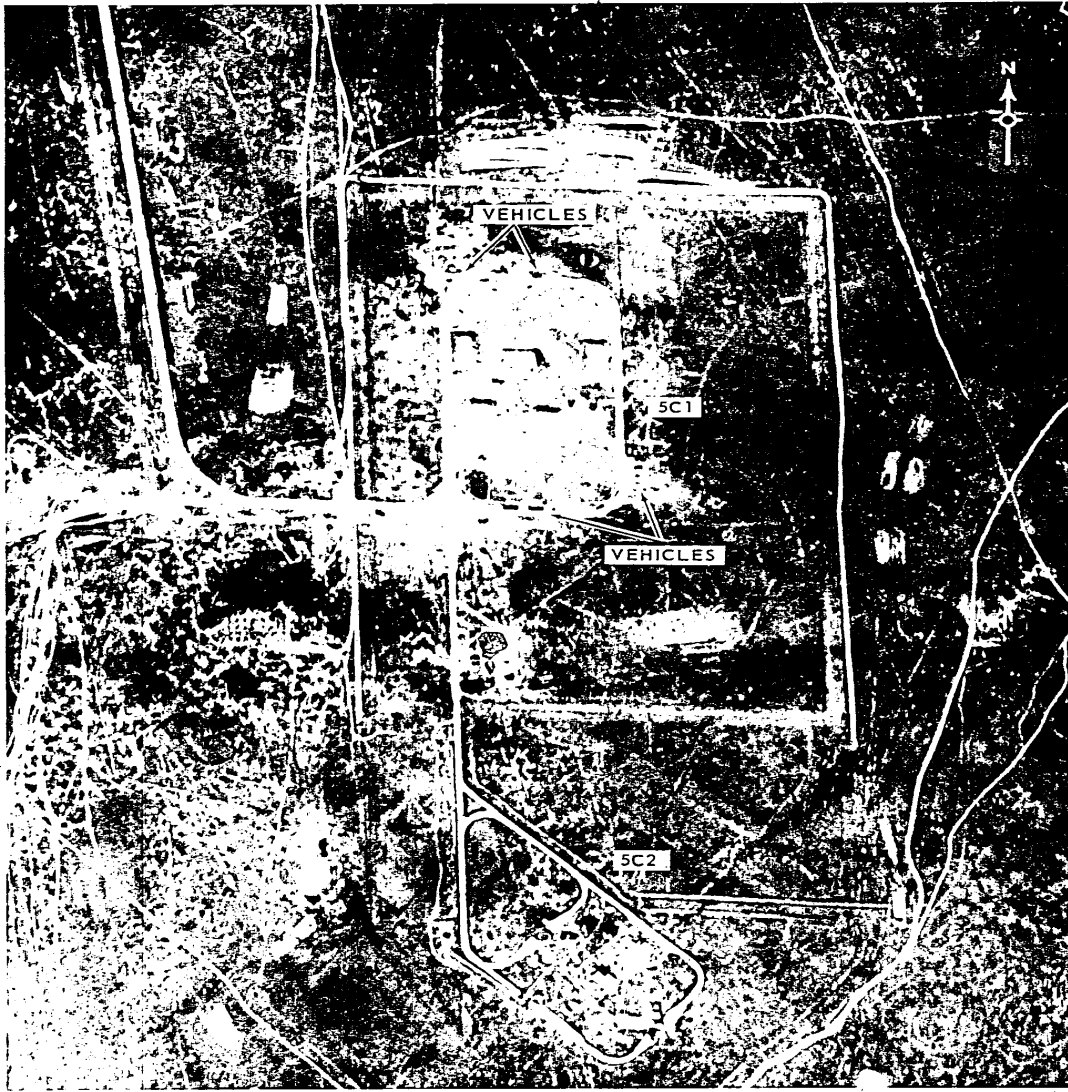
MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64

ATTACHMENT 14



25X1
25X1



LAUNCH AREA 5C, KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR

NPIC J-4425 (10/64)



25X1

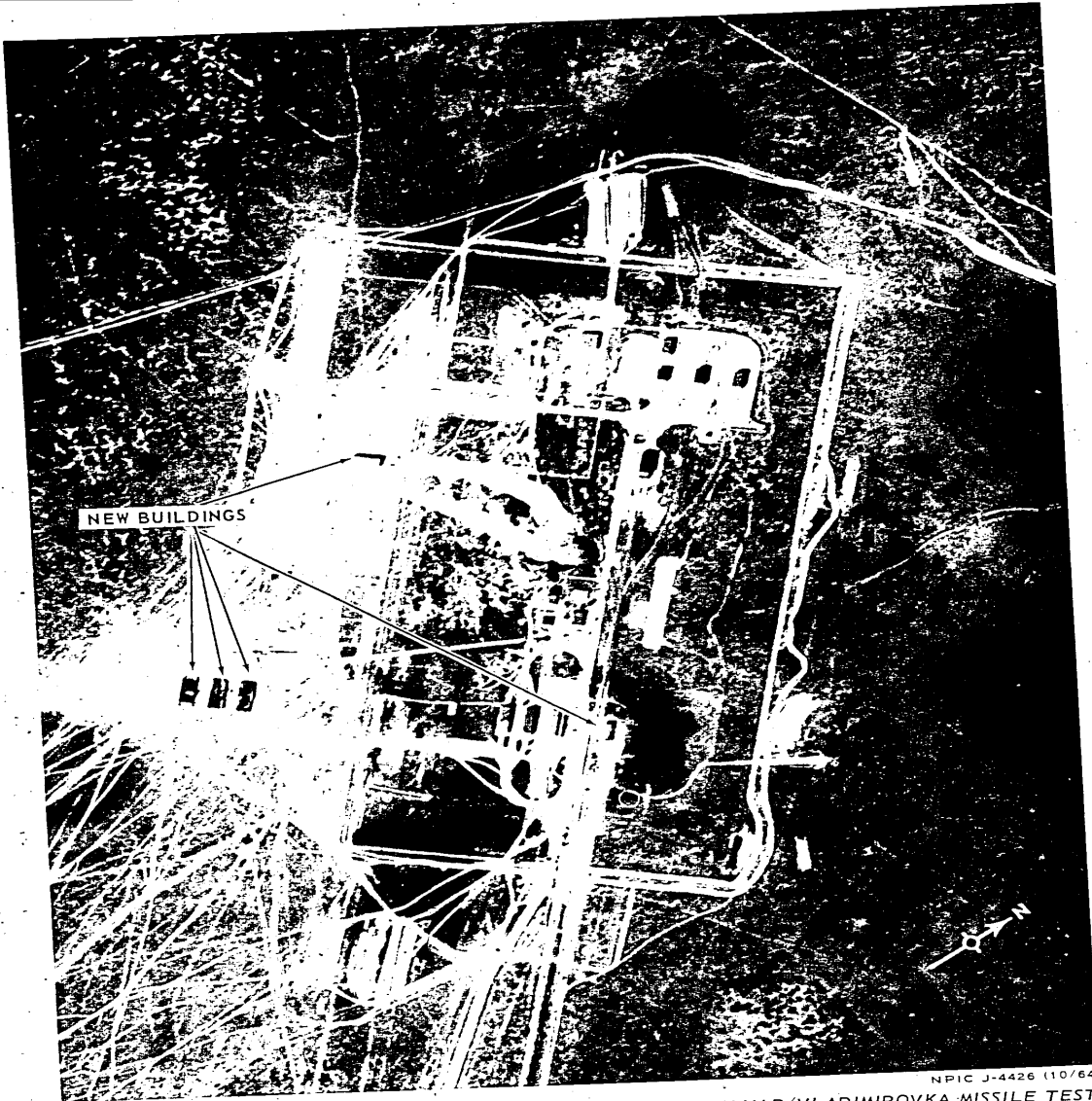
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64
ATTACHMENT 15

25X1
25X1



PROBABLE MISSILE ASSEMBLY AND CHECKOUT AREA, KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR

NPIC J-4426 (10/64)

TOP SECRET CHESS RUFF

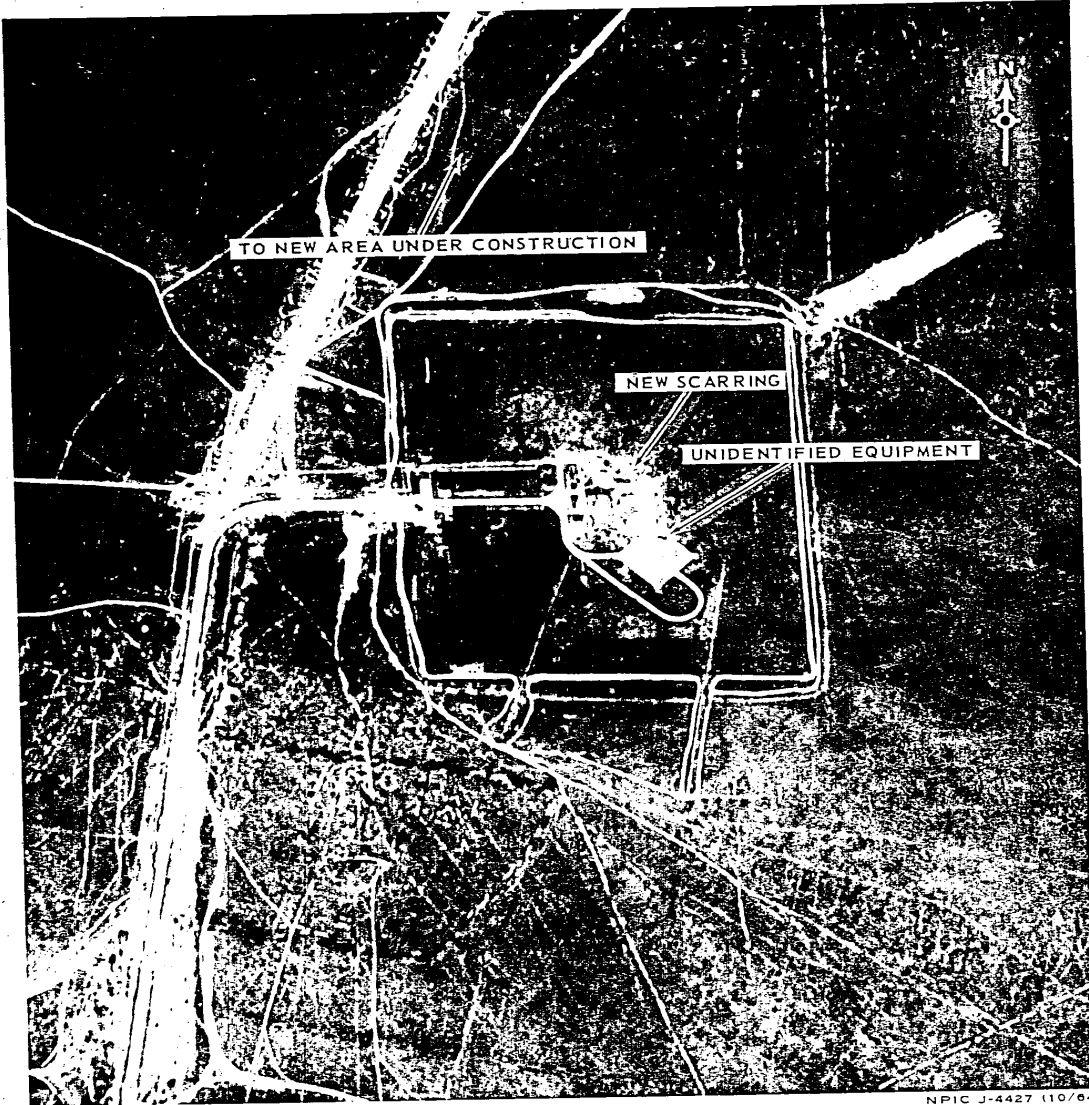
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TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64
ATTACHMENT 16

25X1



LAUNCH COMPLEX E, KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR

NPIC J-4427 (10/64)

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64

ATTACHMENT 17

25X1



TO LAUNCH COMPLEX E

NPIC J-4428 (10/64)

NEW AREA UNDER CONSTRUCTION NNE OF LAUNCH COMPLEX E, KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR

25X1

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64
ATTACHMENT 18

25X1
25X1



NEW BIVOUAC/TRAINING AREA WEST OF LAUNCH COMPLEX E, KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR

NPIC J-4429 (10/64)

TOP SECRET CHESS RUFF

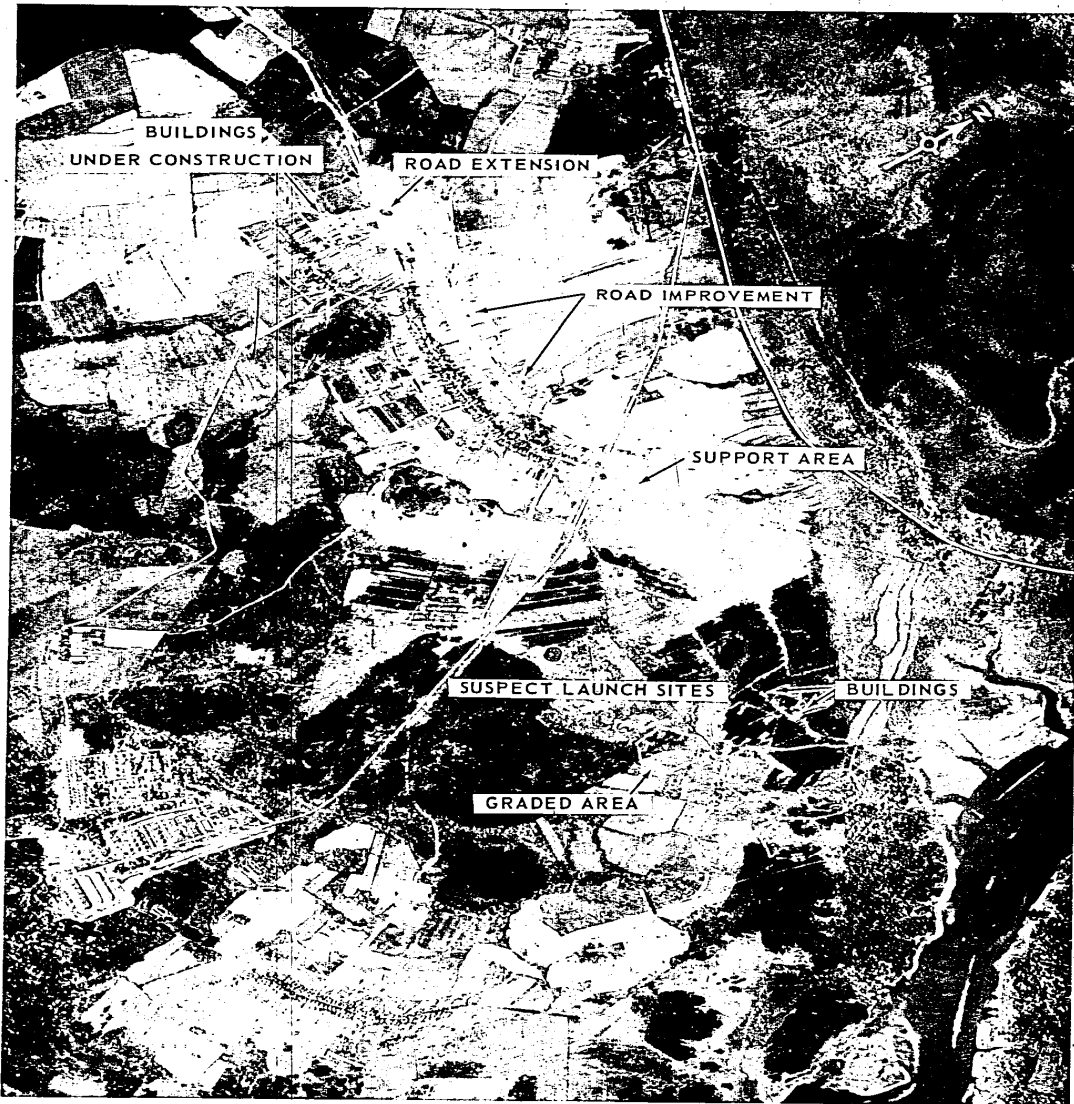
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TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64
ATTACHMENT 19

25X1
20X1



NPIC-J-4430 (10/64)

SUSPECT AMM/SAM LAUNCH COMPLEX UNDER CONSTRUCTION, CHEREPOVETS, USSR

25X1

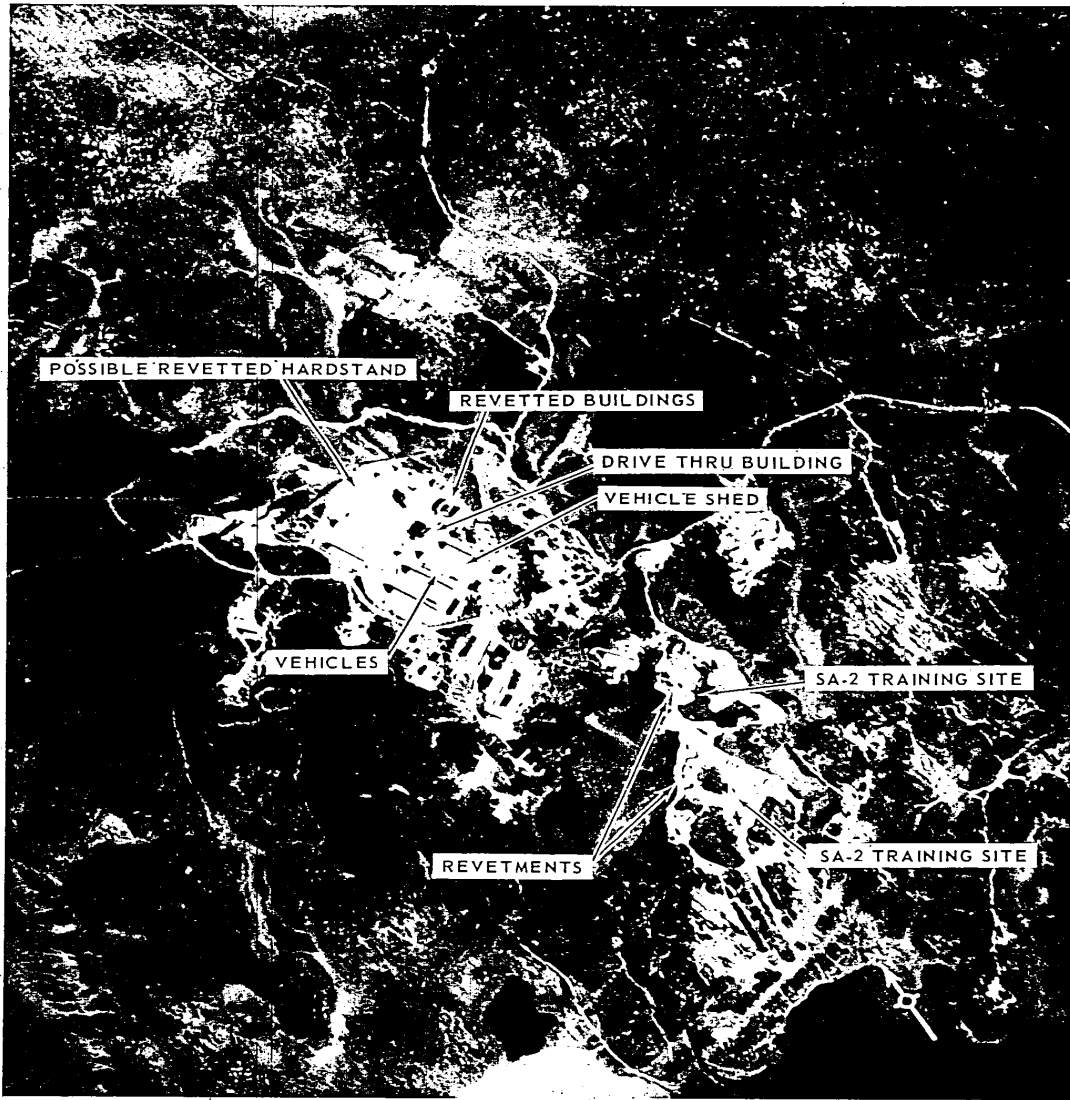
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64
ATTACHMENT 20

25X1
29A1



KANDALAKSHA SAM TRAINING AREA, USSR

NPIC J-4431 (10/64)

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

MISSION 4011, 24-27 SEPTEMBER 1964

NPIC/R-881/64

ATTACHMENT 2 I

25X1
25X1



NPIC J-4432 (10/64)

STATIC TEST FACILITY, KEMEROVO, USSR

25X1

TOP SECRET CHESS RUFF

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