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HR70-14

COPY NO. 56

I. THE OVER-ALL QUALITY OF THE PHOTOGRAPHY IS EXCELLENT. HEAVY CLOUD COVER TO COMPLETE OVERCAST WAS ENCOUNTERED AT BOTH THE BEGINNING AND END OF THE TRACK. HOWEVER, MOST OF THE MAJOR TARGET AREAS, EXCEPT THOSE IN THE CAUCASUS, WERE CLOUD FREE.

II. THIS PRELIMINARY REPORT COVERS ITEMS OF MILITARY SIGNIFICANCE IN RESPONSE TO REQUIREMENTS LEVIED BY THE INTELLIGENCE COMMUNITY.

III. SUMMARY

8005 PROVIDES EXCELLENT PHOTOGRAPHIC COVERAGE OF A CRITICAL PORTION OF THE VOLGA RIVER AND PLAIN. INVALUABLE INFORMATION IS RECORDED FOR DETAILED ANALYSIS OF THE DEVELOPMENT AND EXPANSION OF THE KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER DURING THE PERIOD OF OVER 28 MONTHS SINCE THE PREVIOUS TALENT COVER. A WIDE SWATH OF THE VOLGA PLAIN FROM NORTH OF KUYBYSHEV TO STALINGRAD IS PHOTOGRAPHED FOR THE ENLIGHTENMENT OF WESTERN OBSERVERS FOR THE FIRST TIME SINCE WORLD WAR II.

8005 ADDS SIXTEEN HEXAGON SURFACE-TO-AIR MISSILE SITES TO THE GROWING LIST OF SUCH SITES NOW KNOWN TO EXIST IN THE USSR. EXCELLENT COVERAGE IS PROVIDED OF A MAJOR CHEMICAL WARFARE PROVING GROUND, AN ADDITIONAL TYPE II SPECIAL WEAPONS STORAGE SITE, AN ADDITIONAL M-TYPE STORAGE SITE, MANY LARGE INDUSTRIAL COMPLEXES, AND RAIL, CANAL, RIVER, AND ROAD TRANSPORTATION NETS.

COVERAGE IS ALSO OBTAINED OF SOME 31 AIRFIELDS. THREE OF THESE, ONE OF WHICH IS UNDER CONSTRUCTION, ARE MAJOR NEW FIELDS. THE REMAINING 28 INCLUDE 11 MAJOR FIELDS, 8 MINOR FIELDS AND LANDING AREAS, 3 ABANDONED FIELDS, AND 6 ON WHICH DETAILED INTERPRETATION IS NOT POSSIBLE. A TOTAL OF 1243 AIRCRAFT WAS OBSERVED, INCLUDING 290 BOMBERS, 539 FIGHTERS, 132 TRANSPORTS, 85 LIAISON, 139 TRAINERS, 57 HELICOPTERS, AND 1 GLIDER.

BOMBER AIRCRAFT INCLUDE 37 BISON, 18 BEAR, 62 BADGER, 38 BULL, AND

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135 BEAGLE.

FIGHTER AIRCRAFT INCLUDE 2 FISHPOT/FISHBED, 31 FARMER, 32 FLASHLIGHT,  
AND 462 FAGOT/FRESCO.

A. GUIDED MISSILES

1. KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER

THE KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER WAS COVERED BY EXCELLENT QUALITY PHOTOGRAPHY. OVER-ALL THE CENTER IS CHARACTERIZED BY EXTENSIVE TROOP TRAINING ACTIVITY AND BY AN EXPANSION, SINCE 1957, OF EVERY MAJOR LAUNCH COMPLEX. A TOTAL OF 243 AIRCRAFT ARE FOUND AT VLADIMIROVKA/AKHTUBA AND KAPUSTIN YAR AIRFIELDS. NO MAJOR DOWN RANGE INSTRUMENTATION OR IMPACT AREAS WERE IDENTIFIED.

SAM FACILITIES

THE SAM LAUNCH COMPLEX HAS BEEN EXPANDED TO THE SOUTH AND IS CHARACTERIZED BY EXTENSIVE TROOP TRAINING ACTIVITY. LAUNCH AREA SOUTH, UNDER CONSTRUCTION IN 1957, INCLUDES TWO FIXED FAN-SHAPED HEXAGONAL-TYPE SITES, EACH WITH THREE TO FOUR COMPLETED EARTHEN REVETMENTS. IN ADDITION, 10 THREE-LAUNCHER TROOP TRAINING SITES, 7 OF WHICH ARE OCCUPIED, ARE LOCATED NEARBY. A LARGE UNOCCUPIED BIVOUAC AREA, CAPABLE OF BILLETING APPROXIMATELY 2,000 TROOPS, IS LOCATED JUST TO THE REAR OF THESE SITES.

A NEW-TYPE SAM LAUNCH AREA CONTAINING TWO PROTOTYPE SITES, EACH WITH FOUR LAUNCH POINTS, HAS BEEN CONSTRUCTED SOUTH OF THE TROOP TRAINING SITES. THIS

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AREA HAS AN ASSOCIATED GUIDANCE OR INSTRUMENTATION SITE POSITIONED TO THE REAR.

THE R&D HERRINGBONE LAUNCH AREA LOCATED TO THE NORTH HAS UNDERGONE NO MAJOR CHANGES. HOWEVER, QUALITY OF PHOTOGRAPHY HAS ENABLED THE IDENTIFICATION OF TWO R&D HEXAGON SITES ONE OF WHICH APPEARS ABANDONED. THE ACTIVE SITE, WHICH HAS NOT BEEN HARDENED, INCLUDES SIX OCCUPIED FIRING POSITIONS AND THE CHARACTERISTIC GUIDANCE EQUIPMENT.

AT LEAST 40 MISSILES ARE LOCATED IN THE PROTOTYPE HERRINGBONE LAUNCH AREA. JUST NORTH OF THE RAIL SUPPORTED SAM ASSEMBLY COMPLEX, THERE ARE HUNDREDS OF VEHICLES AND PIECES OF EQUIPMENT PARKED IN A LARGE FENCED AREA PREVIOUSLY THOUGHT TO BE A POSSIBLE TEST CELL FACILITY.

#### SSM FACILITIES

A NEW LAUNCH COMPLEX HAS BEEN CONSTRUCTED AND EACH OF THE THREE MAJOR LAUNCH COMPLEXES (ZONES 7, 8 AND 9) HAS BEEN EXPANDED. THE BRANCH RAIL LINE SERVING ZONE 18 HAS BEEN EXTENDED TO SERVICE A NEW SUPPORT AREA UNDER CONSTRUCTION AT ZONE 9. IN ADDITION A LARGE BIVOUAC AREA IS LOCATED TO THE REAR OF ZONE 9.

THE NEW LAUNCH COMPLEX IS LOCATED APPROXIMATELY 4.5 NM NORTH-NORTHEAST OF ZONE 7. IT CONSISTS OF A SINGLE LAUNCH PAD, ABOUT 200 FEET SQUARE, AND ASSOCIATED SUPPORT FACILITIES ALL LOCATED WITHIN A DOUBLE WIRE FENCE. A SMALL SUPPORT AREA CONTAINING 37 TENTS AND 4 BUILDINGS IS LOCATED NEARBY.

ZONE 7 IS BEING EXPANDED TO INCLUDE TWO NEW RAISED LAUNCH PLATFORMS, EACH 30 FEET HIGH AND SERVED BY TWO

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RAMPS. THE PLATFORMS ARE ABOUT 100 FEET SQUARE AND HOLES APPROXIMATELY 20 FEET IN DIAMETER ARE POSITIONED NEAR THEIR CENTERS.

ZONE 8 HAS A NEW LAUNCH AREA WHICH CONSISTS OF TWO LAUNCH POINTS. THERE APPEARS TO BE A VARIETY OF COMPLEX EQUIPMENT AND/OR STRUCTURES INCLUDING A VERTICAL LAUNCHING TOWER AND THREE INCLINED LAUNCHING RAILS WITHIN THE ZONE.

ZONE 9 HAS A LAUNCH AREA UNDER CONSTRUCTION IN AN AREA LYING BETWEEN THE TWO EXISTING LAUNCH AREAS WHICH WILL CONSIST OF TWO LAUNCH POINTS. IN ADDITION THERE IS A NEW RAIL-SERVED SUPPORT FACILITY UNDER CONSTRUCTION ABOUT FOUR MILES TO THE REAR. THIS FACILITY WILL BE SERVED BY THE EXTENSION OF THE BRANCH RAIL LINE FROM ZONE 18.

A LARGE TROOP BIVOUAC AREA IS LOCATED TO THE REAR OF ZONE 9. THIS AREA IS SUB-DIVIDED INTO SIX UNIT AREAS AND IS CAPABLE OF BILLETING ABOUT 6,000 TROOPS.

#### VLADIMIROVKA FACILITIES

ZONE 10 HAS BEEN EXPANDED TO INCLUDE TWO NEW LAUNCH AREAS, BOTH OF WHICH ARE ROAD SERVED. ONE OF THESE IS ESSENTIALLY COMPLETE AND THE OTHER IS IN AN EARLY STAGE OF CONSTRUCTION. THE RAIL-SERVED LAUNCH AREA IS COMPLETE. CONSTRUCTION AT THE ADJOINING LAUNCH AREA IS STILL INCOMPLETE, HAVING PROGRESSED VERY LITTLE SINCE THE 1957 COVERAGE.

A NEW GUIDANCE/INSTRUMENTATION FACILITY HAS BEEN POSITIONED 5,000 FEET TO THE REAR OF ZONE 10. THIS FACILITY CONSISTS OF TWO FENCED SITES, 26,400 FEET APART, WHICH ARE CONNECTED BY A CABLE LINE.

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ZONE 12 IS NOW COMPLETE AND HAS MARKED SIMILARITIES TO AN ASSEMBLY AND CHECKOUT FACILITY IN THE RANGEHEAD AT THE TYURA TAM MISSILE LAUNCHING COMPLEX.

THREE TROOP TRAINING LAUNCH SITES ARE LOCATED IN THE REGION BETWEEN ZONES 11 AND 12 WITH AN ASSOCIATED POSSIBLE BARRACKS AREA UNDER CONSTRUCTION NEARBY. A FIELD EXERCISE IS UNDER WAY IN ONE OF THE LAUNCH SITES AND INCLUDES AN ERECTED MISSILE ABOUT 55 FEET LONG  AND SEVERAL SERVICING VEHICLES INCLUDING TWO PROBABLE LIQUID PROPELLANT TRUCKS. THE DIMENSIONS OF THE MISSILE ARE SIMILAR TO THOSE OF THE KOROLOV LIQUID-FUELED BALLISTIC MISSILE WHICH WAS REPORTED BY GERMAN REPATRIATES TO BE UNDER DEVELOPMENT IN 1949 AND TO HAVE A RANGE IN THE ORDER OF 350 NAUTICAL MILES.

A NEW MISSILE SUPPORT AREA SECURED BY A DOUBLE WIRE FENCE HAS BEEN CONSTRUCTED JUST NORTHWEST OF ZONE 12. NUMEROUS VEHICLES AND PIECES OF EQUIPMENT, ARRANGED IN THREE DISTINCT GROUPINGS, ARE PARKED OUTSIDE THE FENCE. THIS AREA IS PROBABLY ASSOCIATED WITH THE TROOP TRAINING LAUNCH SITES.

ZONE 13, AN AIRBORNE MISSILE ASSEMBLY AND LOADING COMPLEX, IS CHARACTERIZED BY THE PRESENCE OF A LARGE NUMBER OF AIRCRAFT INCLUDING 2 BEARS, 2 BADGERS, 1 BEAGLE, 13 FARMERS, 4 FLASHLIGHTS, 1 FAGOT, 1 COLT, AND 2 FISHBED/FISHPOTS.

ZONE 14, A MISSILE PRODUCTION COMPLEX, EVIDENCES EXTENSIVE EXPANSION. THERE IS A LARGE TWO-SECTION STEEL-FRAME BUILDING 85 FEET HIGH IN AN EARLY STAGE OF CONSTRUCTION. ONE SECTION MEASURES 400 BY 225 FEET AND THE OTHER, WHICH WILL BE RAIL-SERVED MEASURES 400

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BY 80 FEET. OTHER SUPPORT BUILDINGS ARE ALSO UNDER CONSTRUCTION IN THE COMPLEX.

SUMMARY

THE FOLLOWING MAJOR POINTS ARE HIGHLIGHTED

1. SINCE SEPTEMBER 1957, THE KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER HAS UNDERGONE CONSIDERABLE EXPANSION BY THE ENLARGEMENT OF EXISTING FACILITIES AND BY THE ADDITION OF MANY NEW ONES. THIS FACTOR CLEARLY INDICATES THAT THE CENTER CONTINUES TO BE A MAJOR SOVIET MISSILE FLIGHT TEST FACILITY.
2. THE SAM COMPLEX APPEARS TO BE THE MAIN SOVIET CENTER FOR SURFACE-TO-AIR MISSILE FLIGHT TESTING, TROOP TRAINING, AND POSSIBLY, UNIT EQUIPMENT OUTFITTING. THE TWO NEW PROTOTYPE SITES IDENTIFIED IN THIS MISSION MAY WELL CONSTITUTE THE NEXT GENERATION SAM SYSTEM OR AN IMPROVEMENT OF A PRESENT SYSTEM.
3. THE NUMBER OF BALLISTIC AND CRUISE MISSILE LAUNCH POINTS HAS DOUBLED SINCE SEPTEMBER 1957. FOR EXAMPLE, THE CENTER NOW INCLUDES FIVE MAJOR LAUNCH COMPLEXES WITH 18 FIXED LAUNCH POINTS (5 UNDER CONSTRUCTION) AS CONTRASTED WITH FOUR COMPLEXES AND 9 FIXED LAUNCH POINTS (ONE UNDER CONSTRUCTION) IN 1957. IN ADDITION, THE CENTER NOW ALSO INCLUDES THREE TROOP TRAINING LAUNCH SITES FOR LARGE ROAD-MOBILE BALLISTIC MISSILES. THIS INCREASE, COUPLED WITH THE INCREASED NUMBER OF SUPPORT FACILITIES AND THE PRESENCE OF A LARGE NEW ASSOCIATED TROOP BIVOUAG AREA CAPABLE OF QUARTERING 6,000 TROOPS, INDICATES AN EXPANDED FLIGHT TESTING AND TROOP TRAINING PROGRAM AT THE CENTER.

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2. HEXAGON SAM SITES

A TOTAL OF SIXTEEN HEXAGON SURFACE-TO-AIR MISSILE (SAM) SITES HAVE BEEN IDENTIFIED IN THE KUYBYSHEV, SARATOV, AND STALINGRAD AREAS. TWELVE SITES ARE POSITIONED AROUND KUYBYSHEV, FIVE OF THESE HAVE AN IMMEDIATE OPERATIONAL CAPABILITY, FOR ANOTHER THREE CONSTRUCTION HAS BEEN COMPLETED, AND THE REMAINING FOUR ARE IN VARYING STAGES OF CONSTRUCTION. ONLY ONE SITE WAS LOCATED NEAR SARATOV AND CONSTRUCTION HAS BEEN COMPLETED AT THIS SITE BUT NO EQUIPMENT INSTALLED. THREE SITES ARE POSITIONED AROUND STALINGRAD AND ALL HAVE AN IMMEDIATE OPERATIONAL CAPABILITY.

A FENCED SECOND-ECHELON SUPPORT FACILITY IS LOCATED NEAR THE LENIN HYDROELECTRIC STATION AND DAM 30NM NW OF KUYBYSHEV. THIS FACILITY CONTAINS 24 CANVAS-COVERED MISSILES ON TRANSPORTERS, 6 PROBABLE LAUNCHERS, 25 GENERAL-PURPOSE VEHICLES, TWO MOBILE CRANES, TWO LARGE AND ONE SMALL REVETTED BUILDINGS, AND ONE LARGE DRIVE-THROUGH BUILDING.

A TOTAL OF 74 MISSILES, 54 LAUNCHERS, AND FIVE FRUIT SET RADARS HAVE BEEN IDENTIFIED AT THE SAM SITES AND SECOND ECHELON SUPPORT FACILITY.

A TABULATION OF THESE 16 SITES IS PRESENTED IN THE FOLLOWING TABLE (NEXT PAGE).

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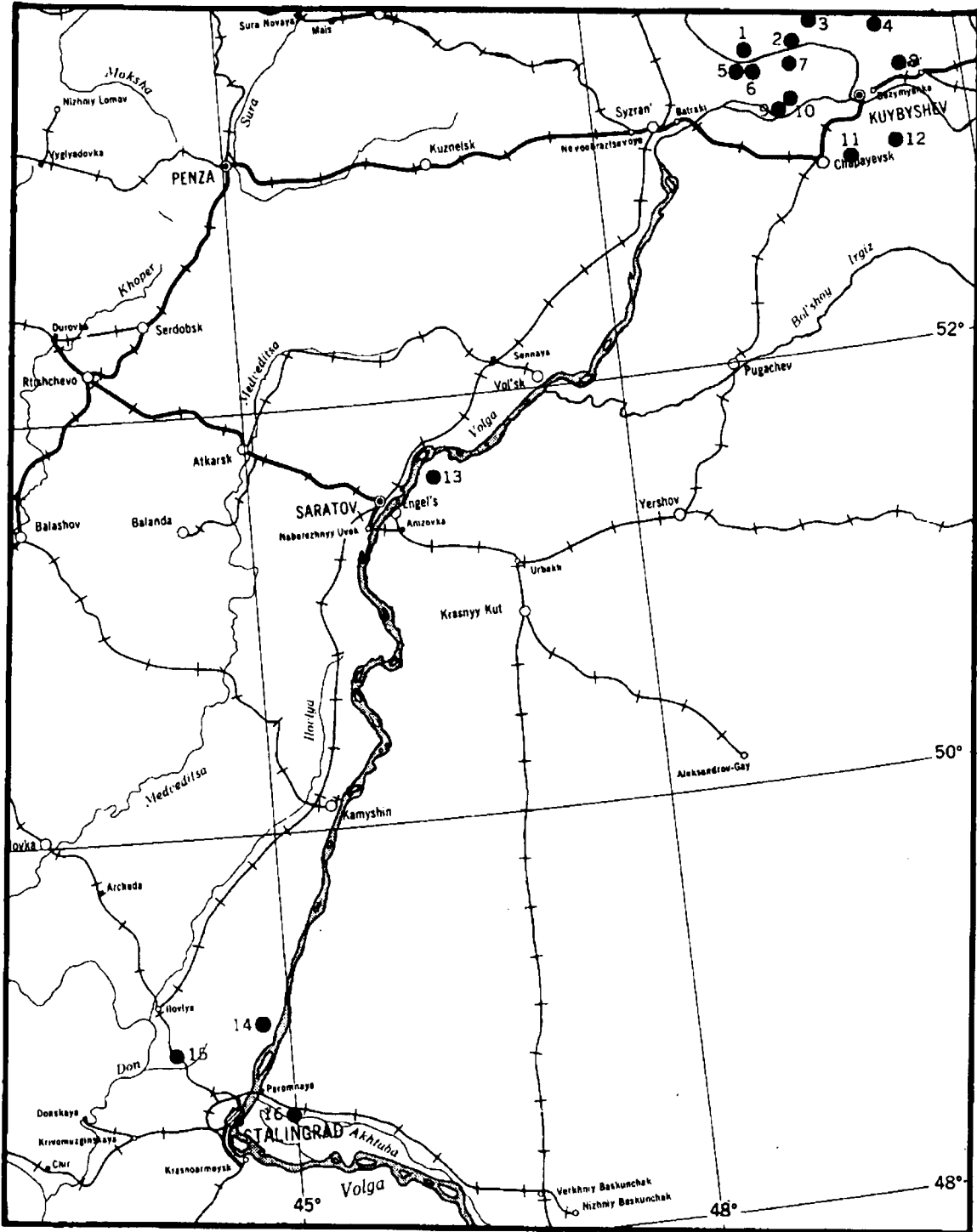
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TABULATION OF HEXAGON SAM SITES\*  
IN THE KUYBYSHEV, SARATOV, AND STALINGRAD AREAS

SITE NO.	DIST & DIR FROM CITY	COORD	STATUS OF CONSTRUCT	LAUNCHERS	MISSILES	GUIDANCE
<u>KUYBYSHEV</u>						
1	32NM NW	5229N 4923E	COMPLETE	6	7	FRUIT SET 10 POSS VEHS
2	26NM NW	5331N 4941E	COMPLETE	6	6	PROB RADAR 10 VEHICLES
3	28NM NNW	5337N 4948E	U/C			
4	22.5NM NNE	5332N 5017E	COMPLETE	6	6	10 VEHICLES
5	32NM WNW	5322N 4916E	U/C			
6	30NM WNW	5321N 4922E	COMPLETE	6	7	10 VEHICLES
7	23NM NW	5323N 4938E	COMPLETE			
8	17NM ENE	5318N 5034E	COMPLETE			
9	25NM W	5309N 4931E	U/C			
10	23NM W	5312N 4935E	POSS SITE U/C			
11	12NM SSW	5259N 5002E	COMPLETE	6	5 POSS	10 POSS VEHS
12	16NM SE	5302N 5029E	COMPLETE			
<u>SARATOV</u>						
13	19NM ENE	5136N 4629E	COMPLETE			
<u>STALINGRAD</u>						
14	15NM NNE	4859N 4440E	COMPLETE	6	6	FRUIT SET 10 POSS VEHS
15	11NM NW	4851N 4421E	COMPLETE	6	6	FRUIT SET 10 VEHICLES
16	15NM E	4843N 4455E	COMPLETE	6	7	FRUIT SET 10 VEHICLES

\* LOCATION MAP ON FOLLOWING PAGE

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LOCATION OF HEXAGON TYPE SAM SITES, MISSION 8005 B.



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E. AIRFIELDS

1. KRASNOGVARDEYSKOYE AIRFIELD

39 49 N - 67 17 E

OBLIQUITY AND DISTANCE PRECLUDE DETAILED  
INTERPRETATION

2. SAMARKAND AIRFIELD

39 41 N - 66 59 E

OBLIQUITY AND DISTANCE PRECLUDE DETAILED  
INTERPRETATION

3. NEW MAJOR AIRFIELD 1 NM S OF KARSHI

38 50 N - 65 45 E

AIRCRAFT OBSERVED CLOUD COVER  
PRECLUDES INTERPRETATION

7,500 FT. CONCRETE RUNWAY - CLOUDS PRECLUDE WIDTH  
DETERMINATION

4. KARSHI SOUTHEAST AIRFIELD

38 52 N - 65 55 E

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AIRCRAFT OBSERVED 29 BEAGLE (PROBABLE)  
24 FAGOT/FRESCO, 2 CAB (POSSIBLE),  
8,000 X 200 FT. CONCRETE RUNWAY

5. NEW AIRFIELD 2 NM W OF URALSK  
51 12 N - 51 19 E

AIRCRAFT OBSERVED 2 BULL, 133 MOOSE, 1 MARE  
(PROBABLE)  
SOD LANDING AREA - SNOW COVER PRECLUDES IDENTI-  
FICATION OF AREA BOUNDARIES

6. URALSK AIRFIELD  
51 14 N - 51 23 E

AIRCRAFT OBSERVED 12 U/I SINGLE ENGINE  
3,500 X 240 FT. BLACKTOP RUNWAY

7. KINEL - CHERKASSY AIRFIELD  
53 28 N - 51 34 E

AIRCRAFT OBSERVED OBLIQUITY AND DISTANCE PRE-  
CLUDE DETAILED INTERPRETATION  
8,000 (APPROX.) X 250 FT. SURFACED RUNWAY

8. BOBROVKA AIRFIELD  
53 09 N - 50 42 E

AIRCRAFT OBSERVED 48 FAGOT/FRESCO, 2 CAB, 5  
CREEK (PROBABLE)  
6,400 X 200 FT. BLACKTOP RUNWAY

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9. KUYBYSHEV/KRYAZH AIRFIELD  
53 07 N - 50 06 E

AIRCRAFT OBSERVED 5 CAB, 6 COLT, 2 CRATE, 22  
CREEK-TYPE  
5,500 X 5,000 FT. SOD LANDING AREA

10. KUYBYSHEV/SMYSHLAYEVKA AIRFIELD  
53 14 N - 50 22 E

AIRCRAFT OBSERVED 14 CAB, 2 COLT, 10 CRATE,  
3 MAX (PROBABLE), 3 U/I TRAINERS  
3,300 X 120 FT. BLACKTOP RUNWAY

11. KUYBYSHEV/BEZMYANKA AIRFIELD  
53 13 N - 50 19 E

AIRCRAFT OBSERVED 15 BEAR, 23 BADGER, 6 CAB,  
3 CLEAT, 1 CRATE, 2 CREEK

NOTE - SPARE HORIZONTAL TAIL ASSEMBLIES ON  
GROUND NEAR BEAR AIRCRAFT MAY INDICATE  
MODIFICATION OF BEAR TO TU-114D HIGH SPEED  
TRANSPORT AIRCRAFT

9,200 X 295 FT BLACKTOP RUNWAY.

TWO PREVIOUSLY REPORTED CONCRETE RUNWAYS NOW  
UTILIZED AS TAXIWAY/PARKING APRONS.

12. CHAPAYEVSK AIRFIELD  
52 56 N - 49 37 E

NO AIRCRAFT OBSERVED  
SNOW COVER PRECLUDES RUNWAY DETERMINATION

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13. NEW MAJOR AIRFIELD U/C 5 NM N OF BOLSHAYA  
TSAREVSHCHINA  
53 31 N - 49 57 E

NO AIRCRAFT OBSERVED  
6,600 X 250 FT BLACKTOP RUNWAY U/C

14. BEZENCHUK AIRFIELD  
52 58 N - 49 24 E

AIRCRAFT OBSERVED 58 FAGOT/FRESCO  
SNOW COVER PRECLUDES RUNWAY DETERMINATION

15. SYZRAN NORTHEAST AIRFIELD  
53 14 N - 48 34 E

AIRCRAFT OBSERVED 63 FAGOT/FRESCO, 60 PROBABLE  
FAGOT/FRESCO, 1 COLT (PROBABLE), 4 CREEK  
(PROBABLE)  
6,000 X 150 FT PACKED EARTH RUNWAY

16. REPYEVKA AIRFIELD  
53 11 N - 48 03 E

NO AIRCRAFT OBSERVED  
6,000 X 600 FT PACKED EARTH RUNWAY

17. RYABINA AIRFIELD  
52 55 N - 48 17 E

NO AIRCRAFT OBSERVED  
SNOW COVER PRECLUDES RUNWAY DETERMINATION

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18. VOLSK AIRFIELD

52 02 N - 47 20 E

AIRCRAFT OBSERVED 2 BEAGLE, 4 FAGOT/FRESCO,  
1 FARMER (POSSIBLE), 2 CABS, 3 COLTS, 1 CRATE,  
3 HOUNDS  
SNOW COVER PRECLUDES RUNWAY DETERMINATION

19. BARANOVKA AIRFIELD

52 08 N - 46 58 E

AIRCRAFT OBSERVED 5 BEAGLE, 45 FAGOT/FRESCO,  
2 HOUNDS  
6,600 X 200 FT CONCRETE RUNWAY,  
8,000 X 200 FT SOD RUNWAY

20. SARATOV SOUTH AIRFIELD

51 28 N - 45 57 E

AIRCRAFT OBSERVED 25 FLASHLIGHT (POSSIBLE C  
MODEL), 3 CAB, 1 CREEK  
6,000 X 240 FT CONCRETE RUNWAY, 4,200 X 240 FT  
SOD RUNWAY

21. SARATOV WEST AIRFIELD

51 32 N - 45 51 E

AIRCRAFT OBSERVED 65 FAGOT/FRESCO, 2 UNIDENTI-  
FIED LIAISON TYPE  
6,200 X 270 FT CONCRETE RUNWAY, 3,300 X 270 FT  
CONCRETE RUNWAY

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22. SARATOV AIRFIELD  
51 33 N - 46 03 E

AIRCRAFT OBSERVED 15 CAB, 4 COLT, 25 CREEK  
6,000 X 360 FT BLACK TOP RUNWAY

23. ENGELS AIRFIELD  
51 29 N - 46 14 E

AIRCRAFT OBSERVED 37 BISON, 1 BEAR, 20 BADGER,  
9 BULL, 7 BEAGLE, 17 FAGOT, 4 FARMER, 3 CAB,  
1 COLT, 1 CRATE, 1 CREEK, 31 HARE, 7 HOUND.  
11,200 X 250 FT CONCRETE RUNWAY  
TYPE II SPECIAL WEAPONS STORAGE AREA, M-TYPE STOR-  
AGE AREA, AND SPECIAL WEAPONS LOADING FACILITY.

24. NEW MAJOR AIRFIELD, 10.5 NM NW OF KAMYSHIN  
50 14 N - 45 11 E

AIRCRAFT OBSERVED 2 BULL, 59 BEAGLE, 1 COLT,  
1 CREEK.  
8,500 X 270 FT HARD SURFACED RUNWAY, 10,000 X 340  
FT SOD RUNWAY.

25. STALINGRAD/BEKETOVSKAYA AIRFIELD  
48 33 N - 44 24 E

AIRCRAFT OBSERVED 2 UNIDENTIFIED TRANSPORT TYPE.  
6,000 (ESTIMATED) X 200 FT HARD SURFACED RUNWAY

26. STALINGRAD/GUMRAK AIRFIELD  
48 47 N - 44 21 E

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AIRCRAFT OBSERVED 5 CAB, 5 COLT, 8 CRATE,  
 9 CREEK (POSSIBLE)  
 6,500 X 240 FT CONCRETE AND SOD RUNWAY  
 (3,300 FT CONCRETE); 6,400 X 310 FT SOD RUNWAY.

27. KAPUSTIN YAR AIRFIELD

48 40 N - 45 43 E

AIRCRAFT OBSERVED 6 CAB, 4 COLT, 2 CRATE,  
 11 CREEK, 8 HOUNDS.  
 3,500 X 2,500 FT SOD LANDING AREA.

28. VLADIMIROVKA/AKHTUBA AIRFIELD

48 18 N - 46 09 E

AIRCRAFT OBSERVED 2 BEAR, 19 BADGER, 25 BULL,  
 33 BEAGLE, 78 FAGOT/FRESCO (38 FAGOT, 24  
 FRESCO, 16 UNDETERMINED), 26 FARMER, 7 FLASH-  
 LIGHT, 2 FISHBED/FISHPOT, 3 CAB, 4 COLT, 5  
 CRATE, 2 CREEK, 6 HOUND  
 8,200 X 260 FT. CONCRETE RUNWAY  
 9,700 X 535 FT. PACKED EARTH RUNWAY  
 12,000 X 240 FT GRADED EARTH RUNWAY

29. THREE PREVIOUSLY REPORTED AIRFIELDS  
 NOW ABANDONED

MAYTUGA AIRFIELD  
 52 59 N - 49 18 E

SYZRAN AIRFIELD  
 53 10 N - 48 31 E

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STALINGRAD SOUTHWEST AIRFIELD  
48 40 N - 44 20 E

30. FOUR PREVIOUSLY REPORTED AIRFIELDS COULD  
NOT BE CONFIRMED

ZHIGULEVSK AIRFIELD  
53 24 N - 49 28 E

PECHERSKOYE AIRFIELD  
53 15 N - 48 53 E

BALAKOVO AIRFIELD  
52 02 N - 47 51 E

BEZMYANNAYA AIRFIELD  
51 20 N - 46 26 E

F. MAJOR INSTALLATIONS AND AREAS

1. URALSK (51 13 N, 51 22 E)

THE URALSK AREA IS COVERED BY EXCELLENT PHOTOGRAPHY AND INCLUDES SUCH INSTALLATIONS AS THE URALSK TORPEDO PLANT 231, POL, & EXTENSIVE RAILYARD & INDUSTRIAL FACILITIES. OTHER ITEMS NOTED INCLUDE A POSSIBLE FIX-FOUR DF INSTALLATION ONE NM NE OF THE CITY, A POSSIBLE MICRO-WAVE TOWER 3 NM E OF THE CITY, A POSSIBLE FISHBONE ANTENNA AT NOVAYA ZHIZN, AND A NEW ROAD OR RAILROAD UNDER CONSTRUCTION RUNNING TO THE EAST.

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2. KRASNAYA GLINKA (53 20 N, 50 13 E)

THIS AREA, WELL COVERED BY PHOTOGRAPHY, INCLUDES AIRCRAFT ENGINE EXPERIMENTAL PLANT 2. PHOTOGRAPHY SHOWS THE ENGINE TEST CELLS AT THE SOUTH END OF THE PLANT, AND DISCLOSES THAT THE PLANT IS CURRENTLY UNDERGOING EXPANSION.

3. STAVROPOL (53 31 N, 49 24 E)

THE INDUSTRIAL COMPLEX OF STAVROPOL AND THE LENIN STATION AND DAM ARE COVERED BY EXCELLENT PHOTOGRAPHY. STAVROPOL HAS BEEN REPORTED AS A NEW AND RAPIDLY GROWING INDUSTRIAL CENTER WITH HUGE PLANTS BEING BUILT FOR THE PRODUCTION OF SYNTHETIC RUBBER, MERCURY-ARC RECTIFIERS, MACHINERY, ETC. • 8055 PHOTOGRAPHY DISCLOSES A LARGE INDUSTRIAL COMPLEX UNDER CONSTRUCTION INCLUDING A POSSIBLE CHEMICAL PLANT, HEAVY INDUSTRY WITH LARGE FABRICATION AND ASSEMBLY-TYPE BUILDINGS, TWO LARGE COOLING TOWERS, ETC.

4. KUYBYSHEV (53 12 N, 50 06 E)

THE KUYBYSHEV COMPLEX IS COMPLETELY COVERED BY PHOTOGRAPHY INCLUDING EXTENSIVE INDUSTRIAL AREAS, COMMUNICATIONS, RAIL AND RIVER TRANSPORT WITH ASSOCIATED FACILITIES, AND MILITARY INSTALLATIONS. AMONG THE MANY INSTALLATIONS NOTED WERE THE FOLLOWING

- KUYBYSHEV PETROLEUM REFINERIES 2 AND 3
- AIRCRAFT ENGINE PLANT (FRUNZE) 24
- STALIN AIRFRAME PLANT 1
- AIRFRAME PLANT 18

A COMMUNICATIONS CENTER (38 LATTICE TOWERS, THREE TRANSMITTER/RECEIVER BUILDINGS)

A COMMUNICATIONS CENTER (FIVE FISHBONE ANTENNAS, THREE SINGLE RHOMBIC ANTENNAS, AND ADDITIONAL MASTS)

NOVO SEMEYKINO RADIO STATION

5. KURUMOCH STORAGE AREA (53 29 N, 50 02 E)

A LARGE STORAGE AREA, UNIDENTIFIED AS TO MATERIAL STORED, MEASURING APPROXIMATELY 10,500 X 2,600 FEET. IN ADDITION TO ADMINISTRATION AND HOUSING, THIS FACILITY CONTAINS WIDELY SEPARATED ROWS OF SMALL UNIDENTIFIED OBJECTS IN STORAGE, WITH NO EVIDENCE OF REVETMENTS OR OTHER BLAST PROTECTION. THE STORAGE AREA IS LIGHTLY SECURED AND APPEARS TO HAVE ROWS OF WHAT MAY BE LIGHTENING ARRESTORS AND/OR LIGHT POLES.

6. KURUMOCH UNIDENTIFIED INSTALLATION  
(53 29 N, 50 02 E)

AN UNIDENTIFIED FENCED INSTALLATION, APPROXIMATELY 4,400 FEET SQUARE, UNDER CONSTRUCTION IN HILLY, WOODED TERRAIN. THE FACILITY INCLUDES SEVERAL PAIRS OF BURIED TANKS WITH CONNECTING DITCHES, AND UNDER CONSTRUCTION WITHIN A LARGE EXCAVATION IN THE HILLSIDE, A BUILDING, 90 BY 80 FEET, BRACKETED BY TALL LATTICE TOWERS OR CRANES. SERVED BY ROAD, WITH A RAIL SPUR UNDER CONSTRUCTION.

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7. CHAPAYEVSK (52 58 N, 49 44 E)

CHAPAYEVSK EXPLOSIVES AND MUNITIONS LOADING PLANT (COMBINE 15 AND 309) SHOWS APPROXIMATELY A ONE-THIRD INCREASE IN FACILITIES, AND A MARKED INCREASE IN SECURITY, SINCE THE LAST COVERAGE IN 1942 (GX PHOTOGRAPHY). APPROXIMATELY TWO NM SE OF THIS PLANT THERE IS NOW A HEAVILY SECURED EXPLOSIVES STORAGE AREA CONTAINING 38 REVETTED BUILDINGS.

A TROOP MANEUVER AREA IS LOCATED FOUR NM S OF CHAPAYEVSK. THIS AREA CONTAINS SOME NINE TOWERS, AND MAY ALSO SERVE AS A MUNITIONS PROVING GROUND.

8. VOLSK MILITARY GARRISON (52 05 N, 47 20 E)

A FENCED MILITARY GARRISON AREA LOCATED TWO NM NW OF VOLSK. THE INSTALLATION CONTAINS FIVE LARGE BARRACKS-TYPE BUILDINGS, THREE UNOCCUPIED TENT AREAS CONTAIN A TOTAL OF APPROXIMATELY 250 10 BY 10 FOOT TENT PLATFORMS, THREE MOTOR POOLS CONTAINING SOME 215 MISCELLANEOUS VEHICLES AND 16 UNIDENTIFIED TANKS. THERE APPEARS TO BE LITTLE RECENT TRAINING ACTIVITY ALTHOUGH BOTH ARMORED AND INFANTRY TRAINING ARE INDICATED.

9. SARATOV COMPLEX (51 31 N, 46 00 E)

THE IMPORTANT INDUSTRIAL COMPLEX OF SARATOV WAS WELL COVERED BY PHOTOGRAPHY. INCLUDED IN THE COVERAGE WAS AIRFRAME PLANT 292 WITH ITS FLY AWAY FIELD SARATOV SOUTH, NEW OIL FIELDS NORTH OF THE CITY AND THE INCREASED HOUSING THAT HAS BEEN ADDED BOTH NORTH AND SOUTH OF THE CITY.

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10. BOMBING RANGE (51 10 N, 46 20 E)

A LARGE BOMBING RANGE, INCLUDING TARGET AIRCRAFT, CIRCULAR, RECTANGULAR AND TRIANGULAR TARGETS, REVETMENTS, BUNKERS AND SUPPORT AREA IS LOCATED NEAR THE REPORTED LOCATION OF ZHUKOUKA AIRFIELD. (A/F POSITION AS REPORTED ON SAC SERIES 200 CHARTS).

11. POL, ENGELS A/F.

SOUTH OF ENGELS AIRFIELD IS LOCATED A WIRE SECURED POL TANK STORAGE AREA THAT IS BOTH RAIL & ROAD SERVED. WITHIN THE AREA ARE 57 CYLINDRICAL TANKS AND FIVE BURIED TANKS.

12. STALINGRAD (48 42 N, 44 30 E)

THE CITY IS COVERED BY PHOTOGRAPHY RANGING IN QUALITY FROM FAIR TO POOR. THE STALINGRAD TRACTOR PLANT WZERBENSKIY 264, STALINGRAD ORDNANCE & MUNITIONS PLANT, STALINGRAD STEEL PLANT AND OTHERS ARE COVERED BY EITHER VERTICAL OR OBLIQUE PHOTOGRAPHY.

THE STALINGRAD HYDRO ELECTRIC PLANT AND DAM ARE WELL COVERED BY VERTICAL AND OBLIQUE PHOTOGRAPHY, AND EXTENSIVE CONSTRUCTION ACTIVITY CAN BE SEEN.

13. AMMUNITION DEPOT NEAR STALINGRAD  
(48 54N, 44 17 E)

APPROXIMATELY 14 NM NORTHWEST OF STALINGRAD IS AN AMMUNITION STORAGE DEPOT, RAIL SERVED & CONTAINING 50 STORAGE BUILDINGS.

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14. DZHERZHINSK (48 48 N, 44 35 E)

THIS CITY, JUST NORTH OF STALINGRAD, WAS COVERED BY OBLIQUE PHOTOGRAPHY.

G. OTHER INSTALLATIONS

1. MAYDA DZHABU (39 28 N, 65 50 E)

LOCATED 6 NM NORTHWEST OF MAYDA DZHABU IS A PROBABLE BURIED DOUBLE PIPELINE RUNNING SW TO NE. THIS IS INDICATED BY TWO PARALLEL GROUND SCARS APPROXIMATELY 10 FEET WIDE, APPROXIMATELY 110 FEET APART, AND WITH POSSIBLE SERVICE FACILITY.

2. VOLGA RIVER, SOUTH OF SARATOV (51 30 N, 45 57 E)

NUMEROUS TOWNS AND SMALL VILLAGES AT LOW POINTS ON THE BANKS OF THE VOLGA HAVE BEEN MOVED SHORT DISTANCES INLAND TO HIGHER GROUND IN PREPARATION FOR THE RISE OF WATER THAT IS RESULTING FROM THE CONSTRUCTION OF THE HYDRO ELECTRIC PLANT AT STALINGRAD. SPECIFIC EXAMPLE OKTYABRSKOYE (51 01 N, 46 02 E)

3. VOLGA RIVER AND CANALS

WINTER FREEZE HAS STOPPED ALL BOAT TRAFFIC ON THE VOLGA RIVER AND CANALS IN THE AREAS OBSERVED.