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PHOTOGRAPHIC INTERPRETATION REPORT



COMMUNICATIONS ANTENNA
COMPONENTS ASSOCIATED
WITH SOVIET SA-5
SAM COMPLEXES

[Redacted]

FEBRUARY 1970

COPY 118

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INSTALLATION OR ACTIVITY NAME Communications Antenna Components Associated With Soviet SA-5 SAM Complexes				COUNTRY UR	
UTM COORDINATES NA	GEOGRAPHIC COORDINATES See Below	BE NUMBER See Below	COMIREX NO. See Below	NIETB NO. See Below	
MAP REFERENCE ACIC. US Air Target Charts, Series 200					

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NEGATION DATE (if required) NA	
REQUIREMENT D-180-69	NPIC PROJECT 250596

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INTRODUCTION

Associated communications antenna components have been identified at 16 of the 76 known Soviet SA-5 SAM complexes. The 16 complexes contain identifiable associated communications antenna components which include communications masts, very high frequency (VHF) FORK REST antennas, and a mast-mounted dual R-400 microwave antenna.

The manner in which the SA-5 SAM system is integrated within the overall air defense command and control structure is not fully understood. An analysis of available photography can neither confirm nor deny any relationship between the SA-5 SAM system and the Ministry of Communications common carrier and radio relay networks.

This report identifies and locates the various types of communications antenna components associated with the 16 complexes. Annotated photographs of components at representative complexes are included.

BASIC DESCRIPTION

The 76 Soviet SA-5 SAM complexes were observed on all available KEYHOLE photography from February 1962 through November 1969, from which 16 complexes were found to contain identifiable associated communications antenna components.

Eleven of the complexes each contain at least one communications mast (Figure 1) of an undetermined type and frequency. The masts at each complex are located either adjacent to the guidance radar control bunker or at the associated air warning radar facility, or, in some cases, at both. Five of the complexes contain VHF FORK REST antennas (Figures 2 and 3), located either in the launch areas or at the associated air warning radar facilities. The Tyuratam complex contains a mast-mounted dual R-400 microwave antenna located in the launch area.

The Sevastopol SA-5 Complex A21-5 (44-31-25N 033-28-35E, [redacted]) has a probable cable trench that can be traced to two high frequency (HF) communications facilities, a VHF facility, and a TWIN DISH troposcatter facility (Figure 4). However, the association between these communications facilities and the Sevastopol SA-5 SAM complex cannot be firmly established from available photography.

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No identifiable differences between those complexes located in urban areas and those located in rural areas were apparent on available photography.

Location and identification data on associated communications antenna components at the 16 SA-5 SAM complexes are tabulated below:

- VOLGOGRAD SA-5 SAM COMPLEX C21-5 (Figure 1) [redacted]
48-21-24N 044-17-40E, [redacted]
Launch Area: no antenna components identified
Air Warning Radar Facility: probable communications mast

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2. PLESETSK SA-5 SAM COMPLEX DO4-5 (Figure 2) [redacted]
 63-12-35N 041-09-38E, [redacted]
 Launch Area: VHF FORK REST antenna;
 probable communications mast (not shown)
 Air Warning Radar Facility: VHF FORK REST antenna (not shown)

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3. NEYA SA-5 SAM COMPLEX A35-5 (Figure 3) [redacted]
 58-22-24N 043-49-19E, [redacted]
 Launch Area: 2 VHF FORK REST Antennas
 Air Warning Radar Facility: 2 VHF FORK REST Antennas

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4. BABAYEVO SA-5 SAM COMPLEX C30-5 [redacted]
 59-32-53N 035-21-10E, [redacted]
 Launch Area: no antenna components identified
 Air Warning Radar Facility: probable communications mast

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5. BAKU SA-5 SAM COMPLEX C10-5 [redacted]
 40-21-18N 050-20-23E, [redacted]
 Launch Area: no antenna components identified
 Air Warning Radar Facility: 2 probable VHF FORK REST antennas

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6. CHELYABINSK SA-5 SAM COMPLEX B05-5 [redacted]
 55-23-33N 061-49-30E, [redacted]
 Launch Area: no antenna components identified
 Air Warning Radar Facility: probable communications mast

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7. CHEREPOVETS SA-5 SAM COMPLEX A11-5 [redacted]
 59-06-19N 038-10-17E, [redacted]
 Launch Area: no antenna components identified
 Air Warning Radar Facility: probable communications mast

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8. KALININGRAD SA-5 SAM COMPLEX B10-5 [redacted]
 54-41-03N 021-00-37E, [redacted]
 Launch Area: no antenna components identified
 Air Warning Radar Facility: VHF FORK REST antenna

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9. KAPUSTIN YAR SA-5 SAM COMPLEX A18-5 [redacted]
 48-32-15N 046-02-27E, [redacted]
 Launch Area: no antenna components identified
 Air Warning Radar Facility: probable communications mast

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10. KHABAROVSK SAM COMPLEX B08-5 [redacted]
 48-32-18N 135-32-29E, [redacted]
 Launch Area: no antenna components identified
 Air Warning Radar Facility: probable communications mast

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11. KOSTROMA SA-5 SAM COMPLEX DO4-5 [redacted]
 58-13-20N 041-37-55E, [redacted]
 Launch Area: no antenna components identified
 Air Warning Radar Facility: probable communications mast

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12. NIZHNIY TAGIL SA-5 SAM COMPLEX DO7-5 [redacted]
 58-06-06N 060-53-59E, [redacted]
 Launch Area: probable communications mast
 Air Warning Radar Facility: probable communications mast

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13. SEVERODINSK SA-5 SAM COMPLEX A13-5 [redacted]
 64-30-10N 040-02-28E, [redacted]
 Launch Area: no antenna components identified
 Air Warning Radar Facility: probable communications mast

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14. TALLINN SA-5 SAM COMPLEX B28-5 [redacted]
 59-24-28N 024-19-51E, [redacted]
 Launch Area: no antenna components identified
 Air Warning Radar Facility: VHF FORK REST antenna

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- 15. TAPA SA-5 SAM COMPLEX A32-5 
 - 59-17-10N 025-54-58E, 
 - Launch Area: probable communications mast
 - Air Warning Radar Facility: no antenna components identified

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- 16. TYURATAM SA-5 SAM COMPLEX B23-5 
 - 45-46-57N 063-12-28E, 
 - Launch Area: mast-mounted dual R-400 microwave antenna

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