PHOTOGRAPHIC INTERPRETATEON

10879



INTRODUCTION TO THE KRUG INSTALLATION SERIES

OCTOBER 1965

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11 PAGES

GROUP 1 EXCLUDED FROM AUTOMATIC DOWNGRADING AND DECLASSIFICATION

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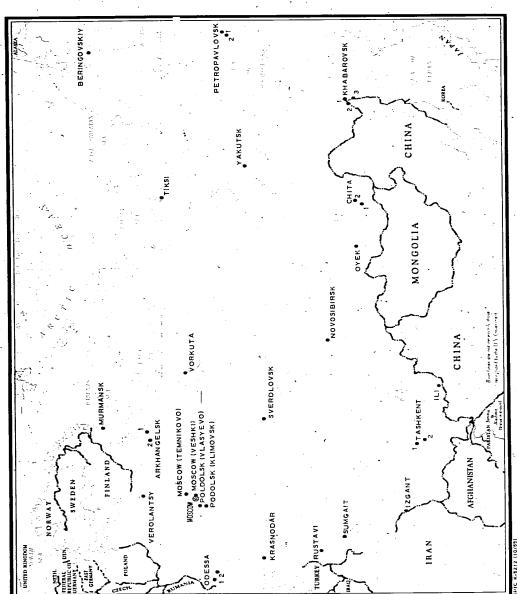


FIGURE 1. LOCATIONS OF KRUG INSTALLATIONS, USSR.

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		25X1D
25X1D	This report introduces an NPIC series on Soviet-type KRUG high-frequency direction-finding (HF DF) antenna array installations. The series will consist of short but detailed individual reports using a standard format, covering all 31 installations containing KRUG antenna arrays which have been identified on photography (Figure 1), and all additional KRUG installations identified on future photographic missions. Each report will be based on the best of the latest photographic coverage available. It is proposed that when significant changes are identified on photography, superseding reports will be issued.	Technical Characteristics Frequency 2 - 20 mcs
25X1D		Range
		Each report will include basic data on the installation, set in boxes at the top; a brief but comprehensive photographic interpretation of the installation; and an annotated photograph from the referenced mission. Notes on the items included in the basic-data boxes are given below:
	Capabilities of the KRUG Antenna	Installation Name. Installations will be carried by Target Data Inventory (TDI) or Bombing Encyclopedia (BE) names unless these
	The KRUG array is a versatile antenna system that can be adapted to perform a variety of functions. A partial listing of these reported functions 1/ includes:	conflict with NPIC usage. Geographic Coordinates. Coordinates will be given in degrees, minutes, and seconds as plotted by NPIC on the referenced map or chart, usually the Series 200 US Air Target Chart. NPIC Target Number and BE Number. Each of these is unique to the installation and con-
		sists of the WAC number plus identifying digits.
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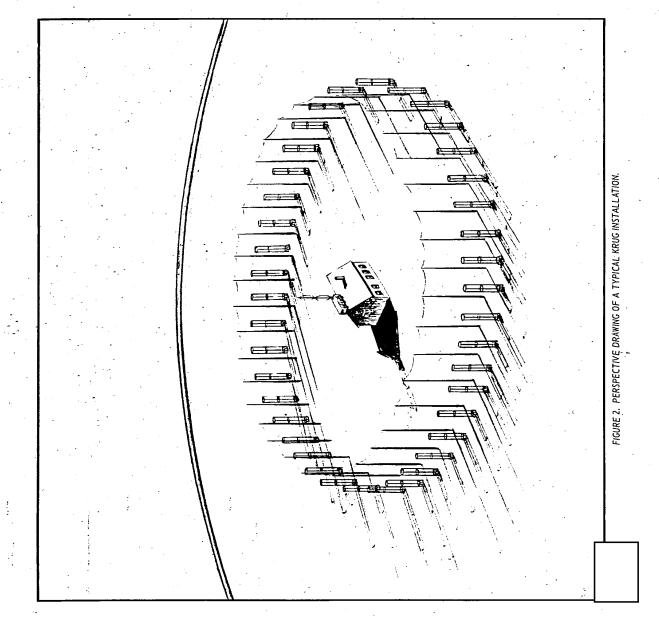


FIGURE 3. DIMENSIONAL DRAWING OF A TYPICAL KRUG INSTALLATION.

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25X1D

Photography. This box contains full photographic references for the coverage on which the report is based.

AD Area. This box contains a tag identifying the air defense (AD) area in which the installation is located. The tag is based on a system devised by NSA which divides the USSR as shown in Figures 4 through 7.

The first element of the tag, the letter F, indicates an electronic installation. The second element, also a letter, indicates the air defense district in which the installation is situated, as follows:

Letter	District
M	Leningrad
K	Western
Ū	Moscow
P.	Southwestern
F	Baku
W	Sverdlovsk
Ν .	Tashkent
Y	Northern
D	Trans-Siberian
E	Far Eastern

These districts have in turn been divided into zones as indicated by the first digit in the tag, and further subdivisions are indicated by the second digit.

Only a 2-letter country indicator will be used in the box when installations lie outside the USSR.

References. This box contains data on the map or chart used for plotting the location of the installation and a citation of this introductory report.

Requirement. This box contains the requester's requirement number.

Descriptive Information. In addition to the items covered in the boxes at the head of the report, as much description of the installation as possible will be given. The subject headings in this section were selected after detailed evaluation of a number of individual facilities to ensure a comprehensive profile of any given facility. These headings will always occur in the same order; when any particular category does not apply to a given situation, it will be This omission indicates only nonomitted. applicability; negative information, such as the absence of security measures or the lack of activity, will be noted when observed. The information that will be included under some of these headings is explained below; the other headings are self-explanatory but are included to indicate their place in the standard order of entries and also to suggest the broad scope of photographic interpretation that will be accomplished for each facility. All measurements must be considered approximate.

____ Location. The distance and direction from the town the installation was named for.

Function. Status.

Activity.

Cuppont (

Support Components. The buildings and structures in the immediate vicinity of the operational components will be listed here. Usually they will not be annotated on the photograph.

Security.

Vegetation & Terrain.

Support Facilities. This entry describes a separate support facility other than the support components situated in the immediate vicinity of the operational elements of the installation and already described above.

Associated Facilities.
Unusual Features.

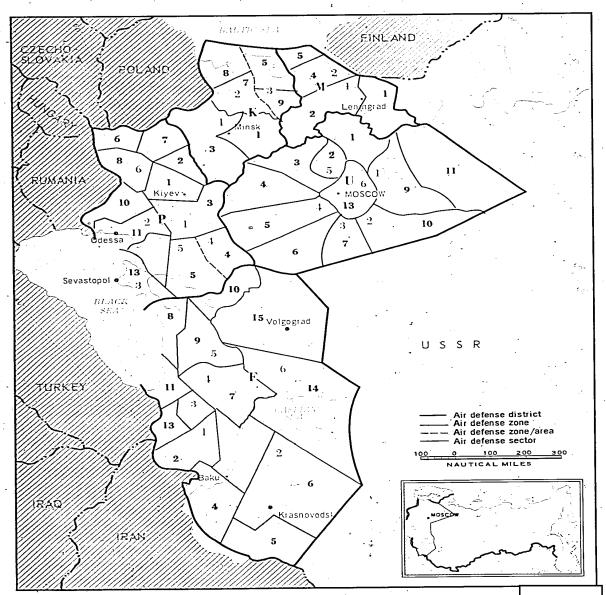


FIGURE 4. WESTERN AIR DEFENSE AREAS, USSR.

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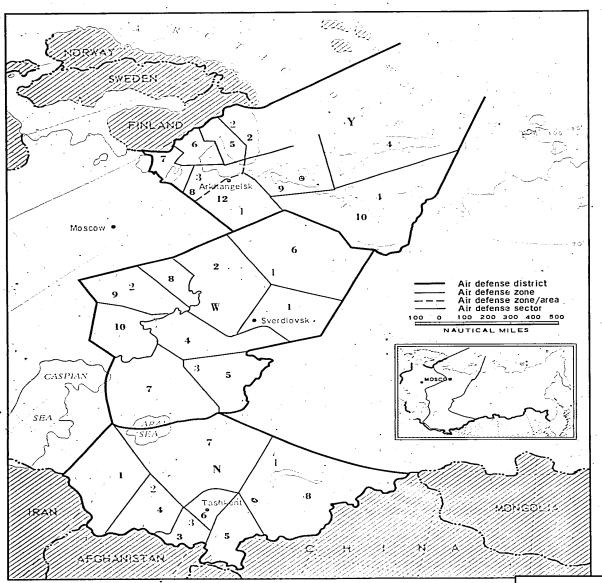


FIGURE 5. SVERDLOVSK, TASHKENT, AND NORTHERN AIR DEFENSE AREAS, USSR.

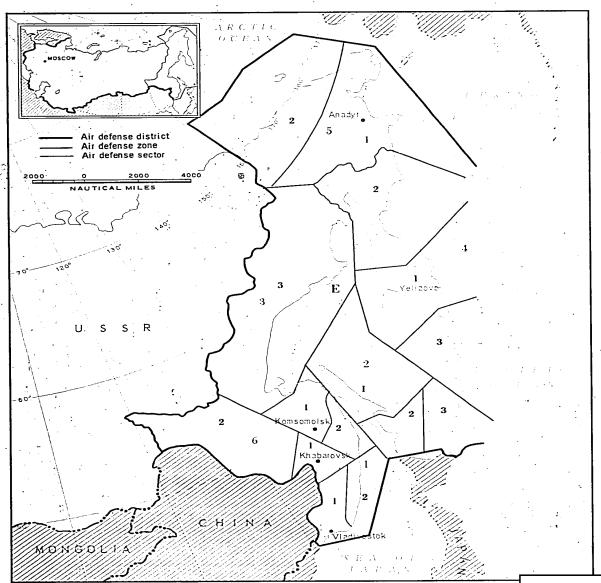


FIGURE 7. FAR EASTERN AIR DEFENSE AREA, USSR.

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	REFER	ENCES		
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1. North American Air Defense Co hilities Significantly." NORAL	ommand, "Possible Tran O Weekly Intelligence Re	sportable KRUG Could In riew, 49/64, 4 Dec 64, p	p 2-4	F-ing Capa-
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