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IMAGERY ANALYSIS DIVISION

SOVIET-TYPE SAM INSTALLATIONS OF THE WORLD

AUGUST 1965

CENTRAL INTELLIGENCE AGENCY
PHOTOGRAPHIC INTELLIGENCE REPORT

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PREFACE

This report is prepared in response to CIA requirements C-RR4-82,056 through C-RR4-82,064. It presents locational and other pertinent information on all Soviet-type surface-to-air missile (SAM) installations, and updates the existing series of reports on this subject. 1-8/ Installations included are SAM launch sites (SA-1, SA-2, SA-3, and SA-0), antimissile-missile activities, SAM support facilities, SAM R & D and training facilities, and un-

identified installations, possibly SAM related. The information is presented by World Aeronautical Chart (WAC), and within each WAC by SAM defense area, as determined from photography and collateral sources. When the defense function of an installation cannot be determined, this is so indicated. Where no installations have been identified in a WAC area, that WAC has been omitted.

INTRODUCTION

This report presents information on Soviet-type SAM installations throughout the world and identified on photography. The cutoff date for this information is [redacted]. In order to facilitate the recognition of additions to and deletions of SAM installations from the previous series of reports, 1-8/ new installations are shown in blue in the text, and installations which are no longer valid have blue lines drawn through them. New items are shown in blue on the graphics, and invalid ones have a blue "X" printed over them. The letter designating the SAM defense area on the table is repeated on the graphic for easier reference.

All photography referenced in the text is TOP SECRET [redacted] or TOP SECRET [redacted] except as otherwise cited beside the specific photo reference. [redacted] information has frequently been used as background material in determining the composition and functions of the various SAM defense areas.

Diagrams of the configurations of the common types of SAM installations are presented in Figure 1. Figure 2 shows all the WAC areas, except Cuba, which are covered in this report, and Figure 3 shows Cuba. The specific WACs which are covered are shaded in red. Information for each WAC is shown in a table which gives detailed data; it faces a map which indicates the location and type of each SAM installation. Because of the volume

of data for several of the tables, the corresponding figures have been repeated for easier reference.

Explanations of the columnar headings used in the tables are as follows:

Item--Given in numerical sequence for each WAC, with numbers assigned to installations arbitrarily, and keyed to the accompanying WAC.

Name, Site Designator, BE Number--In accordance with the TDI. Absence of any of this information indicates that it was not available at the time of publication.

Coordinates--Given in degrees, minutes, and seconds, and plotted from Series 200 US Air Target Charts unless otherwise indicated in the next column.

Country & Map References--BE country codes used. Map reference is to the US Air Target Chart sheet number (scale 1:200,000) unless otherwise indicated.

Type & Configuration--Indicates the type of SAM installation and its configuration as illustrated in Figure 1.

Mission & Date First Appears--Gives the number and date of the mission on which the installation was first sighted, and the classification of the photo reference if other than TOP SECRET [redacted] or TOP SECRET [redacted].

Mission & Date Installation Negated--Refers to the latest [redacted] photography on which it has been established that construction of the installation had not been started. Absence of any notation indicates that this information could not be determined. Classification of the photo reference is indicated if it is other than TOP SECRET [redacted] or TOP SECRET [redacted].

Remarks--Covers items of special or unusual interest.

*Included at the end of this report are a listing by WACs of additions and changes to installations in the body of this report from [redacted] and summaries, by WAC and by country, of all Soviet-type SAM installations identified on photography [redacted]

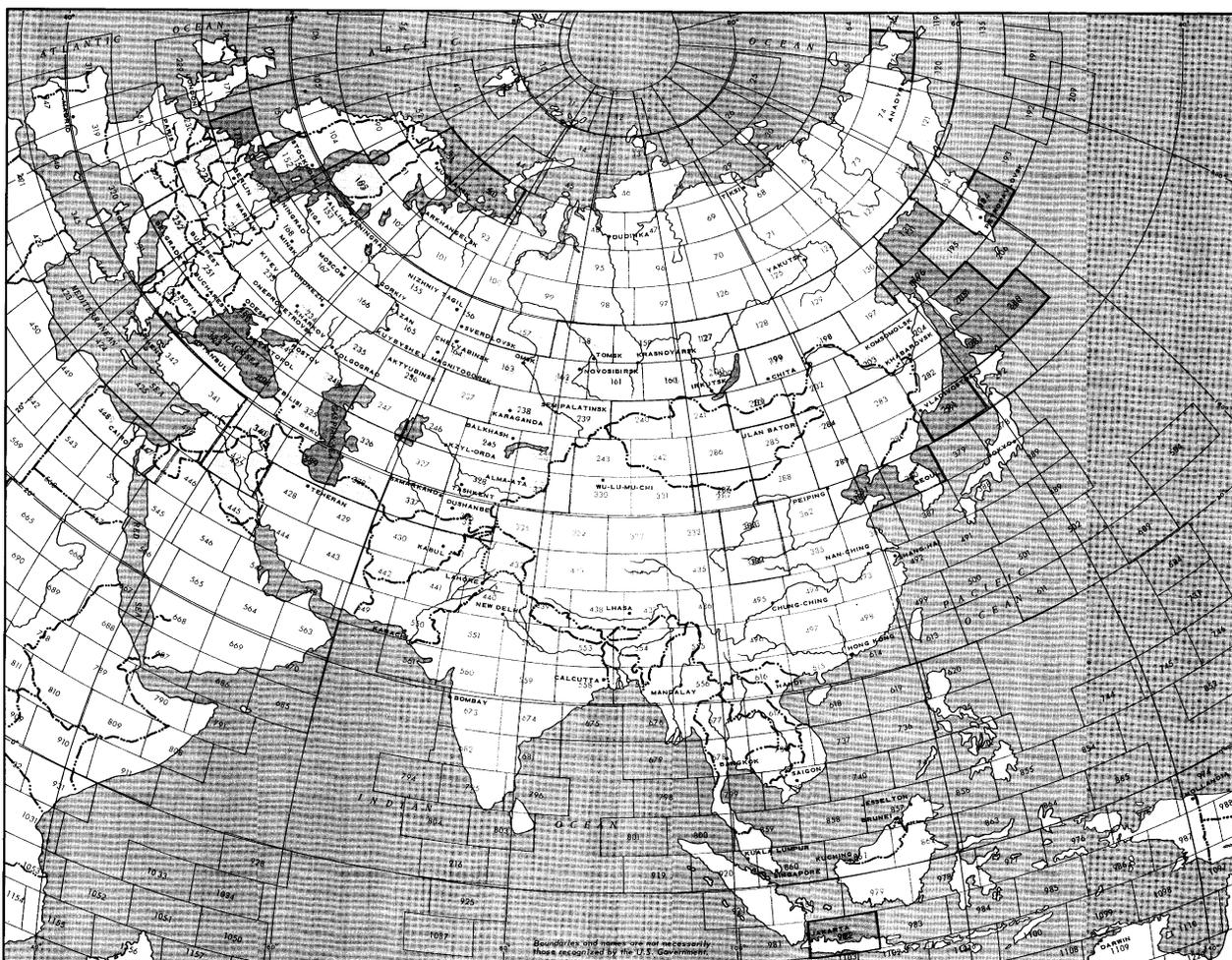


FIGURE 2. WORLD AERONAUTICAL CHARTS OF THE EASTERN HEMISPHERE, SHOWING AREAS COVERED IN THIS REPORT.

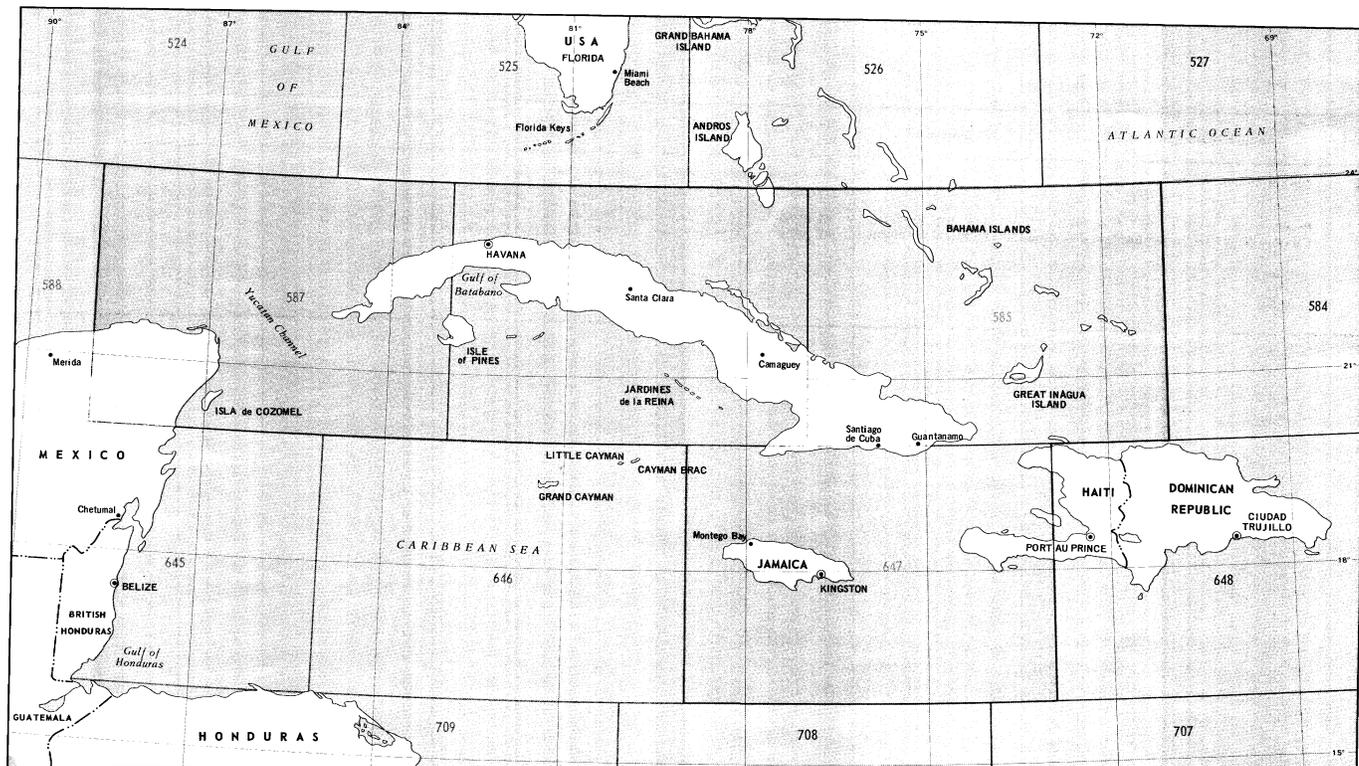


FIGURE 3. WORLD AERONAUTICAL CHARTS OF CUBA, SHOWING AREAS COVERED IN THIS REPORT.

Table 1. SAM Installations on WAC 50

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
▲	Novaya Zemlya SAM Defenses (probably in defense of main operating base [redacted])		[redacted] may possibly have some R & D role [redacted]				
1	Belushya Guba SAM Site A36-2, [redacted]	71-41-05N 52-19-25E	UR 050-4	SA-2, probable fan	[redacted]		
2	Belushya Guba SAM Support Facility, [redacted]	71-36-05N 52-23-30E	UR 050-4	Type II (square)			
3	Belushya Guba SAM Site A08-2, [redacted]	71-33-40N 52-31-00E	UR 050-4	SA-2, configuration undetermined			
4	Belushya Guba SAM Site A12-2, [redacted]	71-31-50N 52-23-15E	UR 050-4	SA-2, configuration undetermined			

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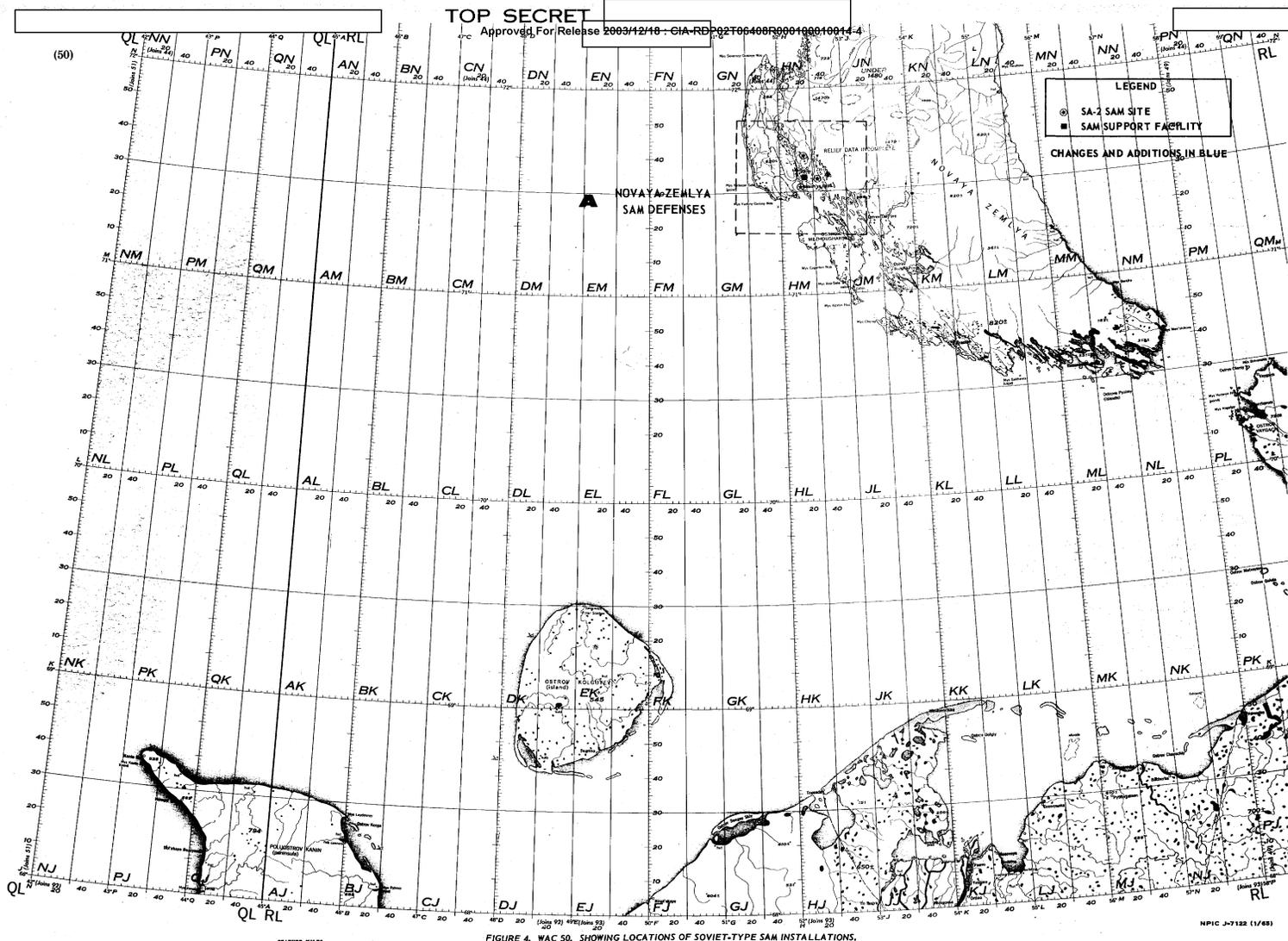


FIGURE 4. WAC 50, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

NPIC J-7122 (1/68)

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WORLD AERONAUTICAL CHART

KOLGUYEV ISLAND (50)

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Table 2. SAM Installations on WAC 51

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
A Pechonga SAM Defenses (in defense of Pechonga, a small complex containing Air Defense Sector Headquarters and Pechonga Naval Base)							
30	Pechonga SAM Site B21-2, [redacted]	69-24-30N 30-59-30E	UR 051-17	SA-2, link	[redacted]		
31	Pechonga Probable SAM Site	69-31-50N 31-09-20E	UR 051-17	SA-2, configuration undetermined			
B Motovskiy Bay SAM Defenses (in defense of Litsa Bay Naval Base, Naval Missile Storage Area, and Naval Facilities in the Motovskiy Bay Area)							
1	Pechonga SAM Site D08-2, [redacted]	69-49-30N 33-03-20E	UR 051-18	SA-2, probable link	[redacted]		
2	Pechonga SAM Site B10-2, [redacted]	69-31-30N 31-57-15E	UR 051-17	SA-2, probable link			
3	Pechonga SAM Site D07-2, [redacted]	69-46-00N 32-36-30E	UR 051-13	SA-2, fan			
4	Pechonga SAM Support Facility, [redacted]	69-44-50N 32-06-30E	UR 051-12	Type II (square)			
5	Pechonga SAM Site B06-2, [redacted]	69-44-00N 31-49-30E	UR 051-12	SA-2, link			
32	Pechonga SAM Support Facility 2, [redacted]	69-42-30N 33-02-30E	UR 051-13	Type I (rectangular)			
C Murmansk SAM Defenses (in defense of Murmansk complex including naval bases and airfields)							
6	Murmansk SAM Support Facility, [redacted]	69-02-20N 33-14-30E	UR 051-18	Type I (rectangle)			
7	Murmansk SAM Support Facility, [redacted]	68-50-00N 33-08-00E	UR 051-18	Type II (square)			
8	Murmansk SAM Site C32-2, [redacted]	69-15-52N 32-19-30E	UR 051-17	SA-2, link			
9	Murmansk SAM Site B33-2, [redacted]	69-06-45N 32-48-10E	UR 051-18	SA-2, probable link			Strongly resembles Murmansk B10-0, an SA-0 SAM Site.
10	Murmansk SAM Site B23-2, [redacted]	68-50-20N 32-46-00E	UR 051-18	SA-2, star			This site, although carried as an SA-3, has 5 definite positions and a faint sixth position, all probably unrevetted, located along a circular road. It closely resembles those unrevetted SA-2 sites which were previously identified as Category 2, SA-0 SAM sites.
11	Murmansk SAM Site B17-2, [redacted]	68-46-30N 33-11-20E	UR 051-23	SA-2, link			
12	Murmansk SAM Site B10-0, [redacted]	68-56-00N 33-41-00E	UR 051-18	SA-0, category I			
13	Murmansk SAM Site B08-3, [redacted]	69-00-50N 33-39-30E	UR 051-18	SA-3, configuration A			
34	Murmansk SAM Site A04-3, [redacted]	69-03-58N 33-18-23E	UR 051-18	SA-3, configuration undetermined	[redacted]		

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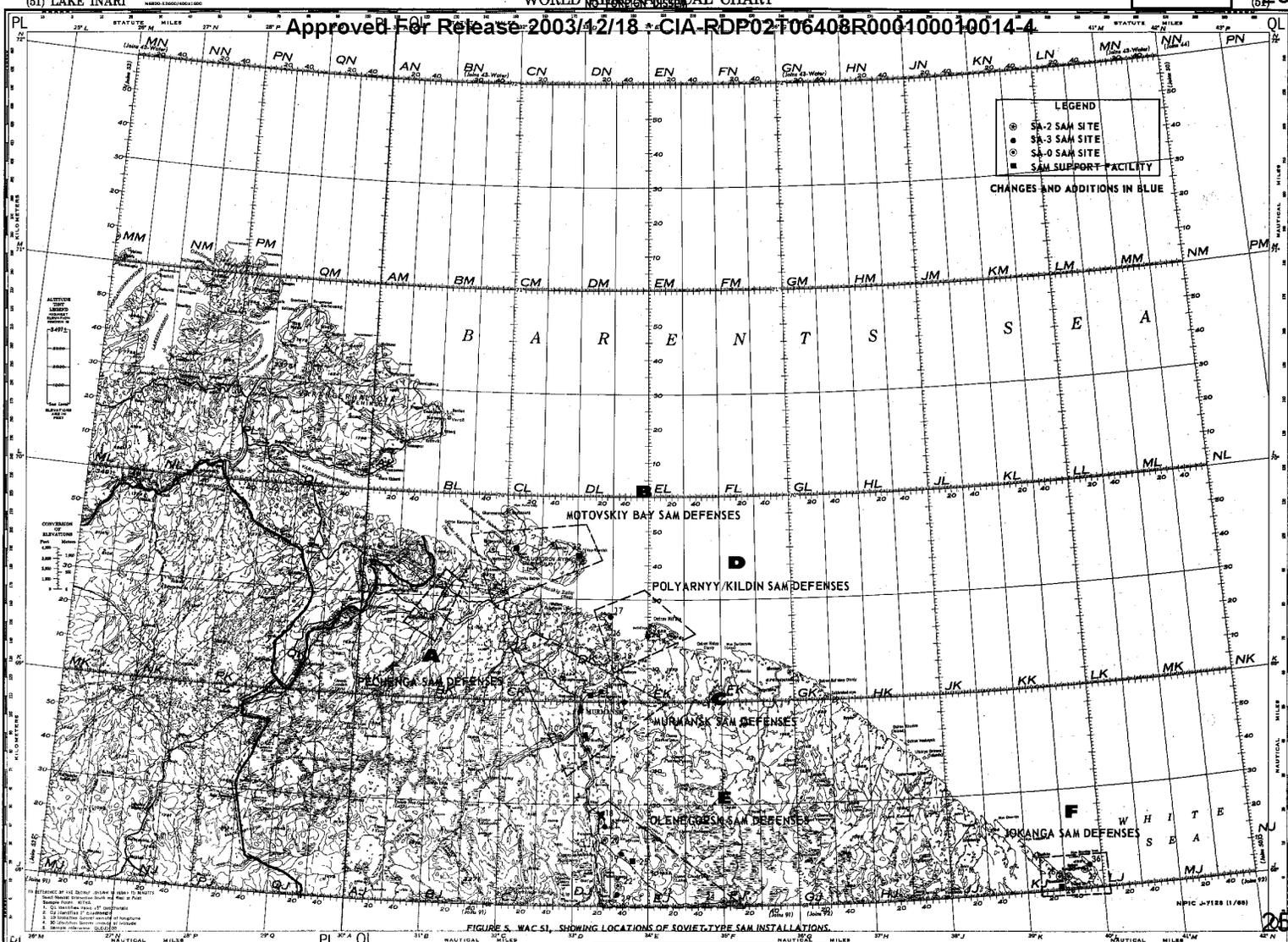
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Table 2. SAM Installations on WAC 51 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated ‡	Remarks
D Polyarnyy/Kildin SAM Defenses (in defense of naval facilities at mouth of Kolskiy Gulf and on Kildin Island)							
14	Murmansk SAM Site D05-2, [redacted]	69-20-10N 34-16-10E	UR 051-18	SA-2, link			Has a small, secured support facility adjacent to the site. NPIC has targeted this as a separate SAM Support Facility, Type 1A.
15	Murmansk SAM Site B04-2, [redacted]	69-14-15N 33-35-00E	UR 051-18	SA-2, link			A small support facility, located just west of this site, has been targeted as a separate SAM Support Facility, Type 1A by NPIC.
16	Murmansk SAM Site C02-2, [redacted]	69-22-50N 33-28-30E	UR 051-18	SA-2, fan			
17	Murmansk SAM Site C02-3, [redacted]	69-23-55N 33-30-00E	UR 051-18	SA-3, configuration undetermined			
33	Murmansk SAM Site D05-3, [redacted]	69-20-45N 34-00-00E	UR 051-18	SA-3, configuration G			
E Olenegorsk SAM Defenses (in defense of Taybola IRBM Complex, Olenya Airfields, and [redacted])							
18	Olenegorsk SAM Site B01-2, [redacted]	68-07-00N 33-25-00E	UR 051-23	SA-2, configuration C			This site was deleted as an SA-3 site on photography as a microwave station. It has been identified
19	Olenegorsk SAM Site B05-3, [redacted]	68-15-20N 33-38-20E	UR 051-23	SA-3, configuration C			Small unidentified facility located just east of this site. Unvetted site.
20	Olenegorsk SAM Site B02-2, [redacted]	68-20-50N 33-26-30E	UR 051-23	SA-2, link			
21	Olenegorsk SAM Site B03-3, [redacted]	68-23-10N 33-27-00E	UR 051-23	SA-3, configuration C			
22	Olenegorsk SAM Site A11-2, [redacted]	68-06-30N 33-25-30E	UR 051-23	SA-2, link			
23	Olenegorsk SAM Site B11-0, [redacted]	68-04-30N 34-08-00E	UR 051-23	SA-0, category I			
24	Olenegorsk SAM Site [redacted]	68-01-00N 35-00-00E	UR 051-23	SA-2, configuration undetermined			
25	Olenegorsk SAM Support Facility, [redacted]	68-13-00N 33-49-50E	UR 051-23	Type I (rectangular)			
29	Olenegorsk SAM Site A11-3, [redacted]	68-05-30N 33-39-20E	UR 0153-23	SA-3, configuration C			
F Iokanga SAM Defenses (in defense of alternate submarine base)							
26	Iokanga SAM Site A33-2, [redacted]	68-04-40N 39-31-28E	UR 051-25	SA-2, link			Unvetted site.
27	Iokanga SAM Site A03-2, [redacted]	68-07-05N 39-47-50E	UR 051-25	SA-2, configuration undetermined			
28	Iokanga SAM Support Facility [redacted]	68-03-00N 39-31-00E	UR 051-25	Type II (square)			A site configuration cannot be seen on Mission [redacted] however, activity is present in the site area. A site configuration cannot be seen on Mission [redacted] however, the road leading to the site is visible.
35	Iokanga Probable SAM Site A31-2, [redacted]	68-03-00N 39-31-43E	UR 051-25	SA-2, configuration undetermined			
36	Iokanga SAM Site A03-3, [redacted]	68-07-35N 39-48-00E	UR 051-25	SA-3, configuration undetermined			

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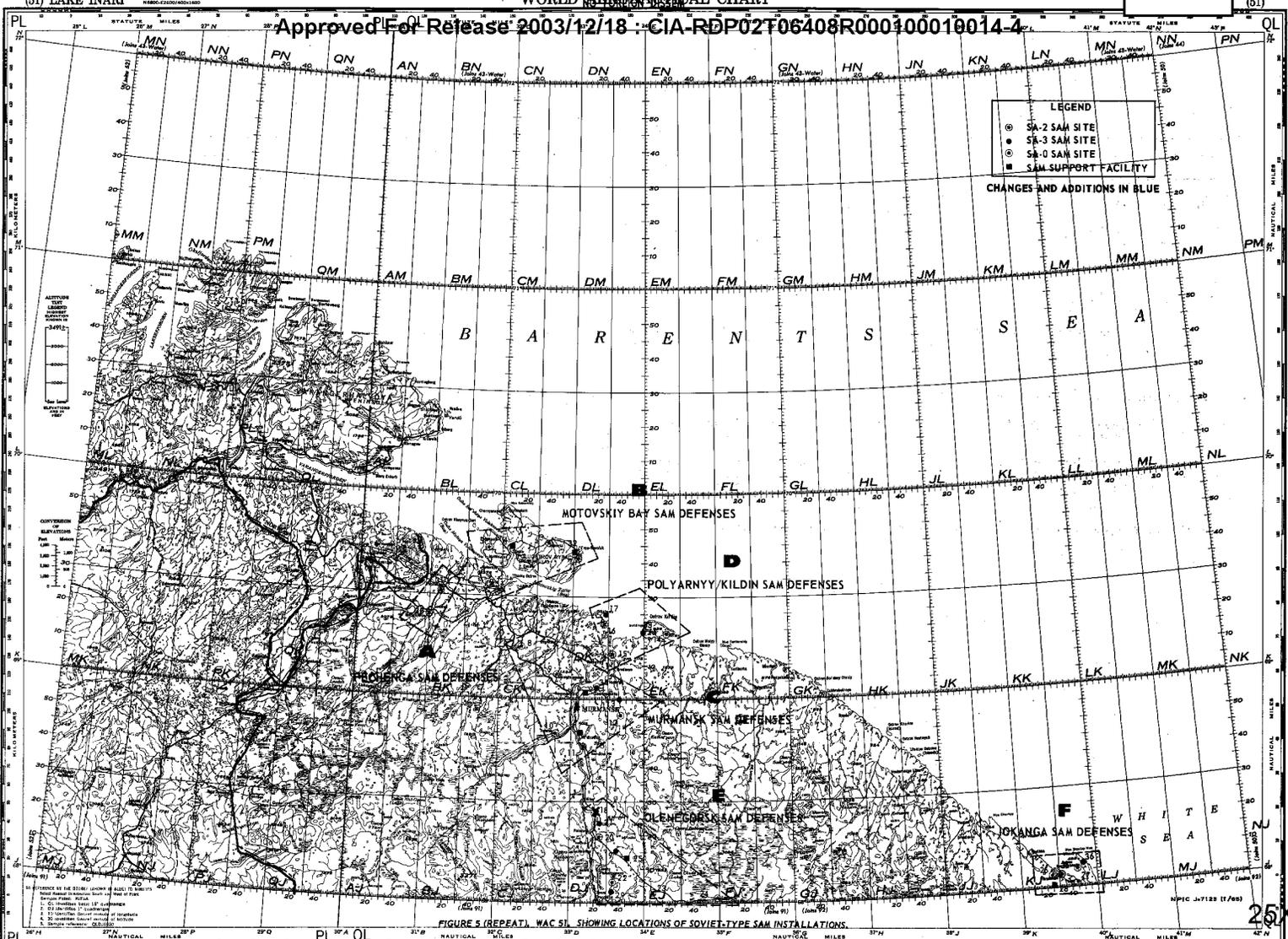
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Table 3. SAM Installations on WAC 75

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
A Ugolnyy SAM Defenses (in defense of [redacted] and MRBM Complex, and Anadyr Leninka Airfield)							
1	Ugolnyy MRBM Complex SAM Site B29-2, [redacted]	64-46-40N 177-26-00E	UR 075-16	SA-2, star	[redacted]		
2	Ugolnyy MRBM Complex SAM Site A18-2, [redacted]	64-37-25N 178-00-30E	UR 075-22	SA-2, probable fan	[redacted]		
3	Anadyr SAM Support Facility [redacted]	64-48-20N 177-45-45E	UR 075-18	Type II (square)	[redacted]		
4	Ugolnyy MRBM Complex SAM Site A25-2, [redacted]	64-43-00N 177-35-30E	UR 075-21	SA-2, configuration undetermined	[redacted]		
5	Ugolnyy SAM Site A36-2, [redacted]	64-55-00N 177-55-00E	UR 075-17	SA-2, configuration undetermined	[redacted]		
B Provideniya SAM Defenses (in defense of Provideniya/Urelik Area, important military area opposite Alaska, including port facilities, a large military airfield, and early warning radar posts)							
6	Provideniya SAM Site A24-2, [redacted]	64-22-30N 173-26-40W	UR 075-25	SA-2, fan	[redacted]		
7	Provideniya SAM Site [redacted]	64-22-30N 173-11-00W	UR 075-25	SA-2, configuration undetermined	[redacted]		
8	Provideniya SAM Support Facility [redacted]	64-26-30N 173-02-30W	UR 075-25	Type II (square)	[redacted]		
9	Provideniya SAM Site B15-2, [redacted]	64-18-10N 173-58-55W	UR 075-25	SA-2, fan	[redacted]		
10	Provideniya SAM Site B07-2, [redacted]	64-31-30N 173-42-00W	UR 075-25	SA-2, configuration undetermined	[redacted]		

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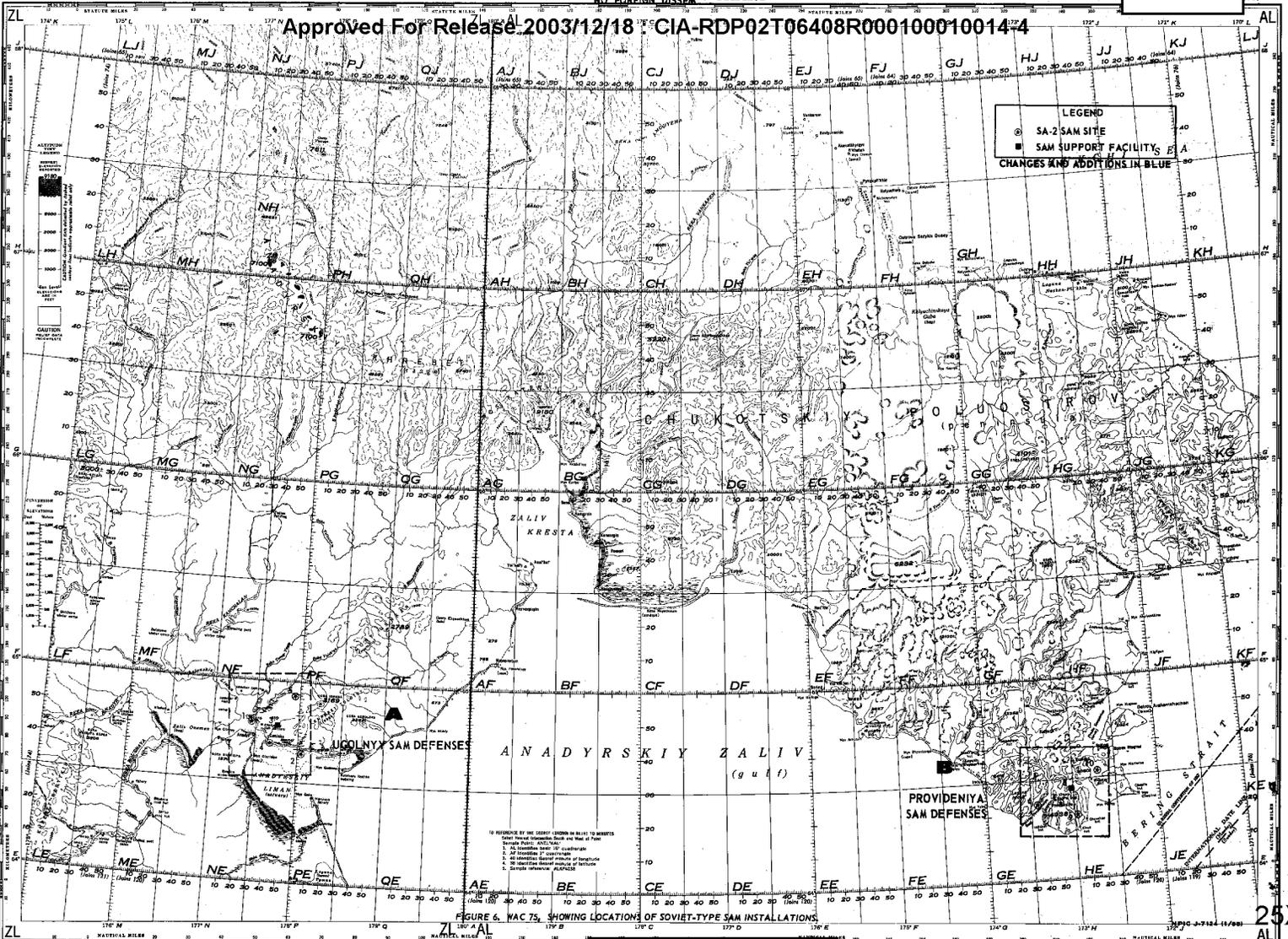
TOP SECRET WORLD AREA MAPS

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(75) ANADYRSKIY GULF

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LEGEND

- SA-2 SAM SITE
- SAM SUPPORT FACILITIES

CHANGES AND ADDITIONS IN BLUE

FIGURE 6. WAC 75. SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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ANADYRSKIY GULF (75)

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Table 4. SAM Installations on WAC 91

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
▲ Belomorsk SAM Defenses (probably in defense of Belomorsk IRBM Complex, and town complex)							
1	Belomorsk SAM Site B25-2, [redacted]	84-26-05N 34-24-25E	UR 091-25	SA-2, link	[redacted]		
2	Belomorsk SAM Site A05-2, [redacted]	84-34-00N 34-51-40E	UR-091-25	SA-2, link			
■ Kandalaksha SAM Defenses (in defense of Kandalaksha Area, major rail and port center on the White Sea, alumina and aluminum plant)							
3	Kandalaksha SAM Site A80-2, [redacted]	87-12-45N 32-07-00E	UR 091-4	SA-2, configuration undetermined	[redacted]		This site is in the early stages of construction on [redacted]
4	Kandalaksha SAM Site A26-2, [redacted]	87-08-30N 32-11-00E	UR 091-9	SA-2, configuration undetermined			This site is in the early stages of construction on [redacted]
5	Kandalaksha SAM Training Area A82-2, [redacted]	87-11-20N 32-22-30E	UR 091-9	See remarks			This training area consists of 2 SA-2 sites, each having 6 launch positions, and a SAM Support Facility. Configuration of the 3 installations cannot be determined due to irregular terrain. All 3 installations are complete.

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(91) MT. KHBINY

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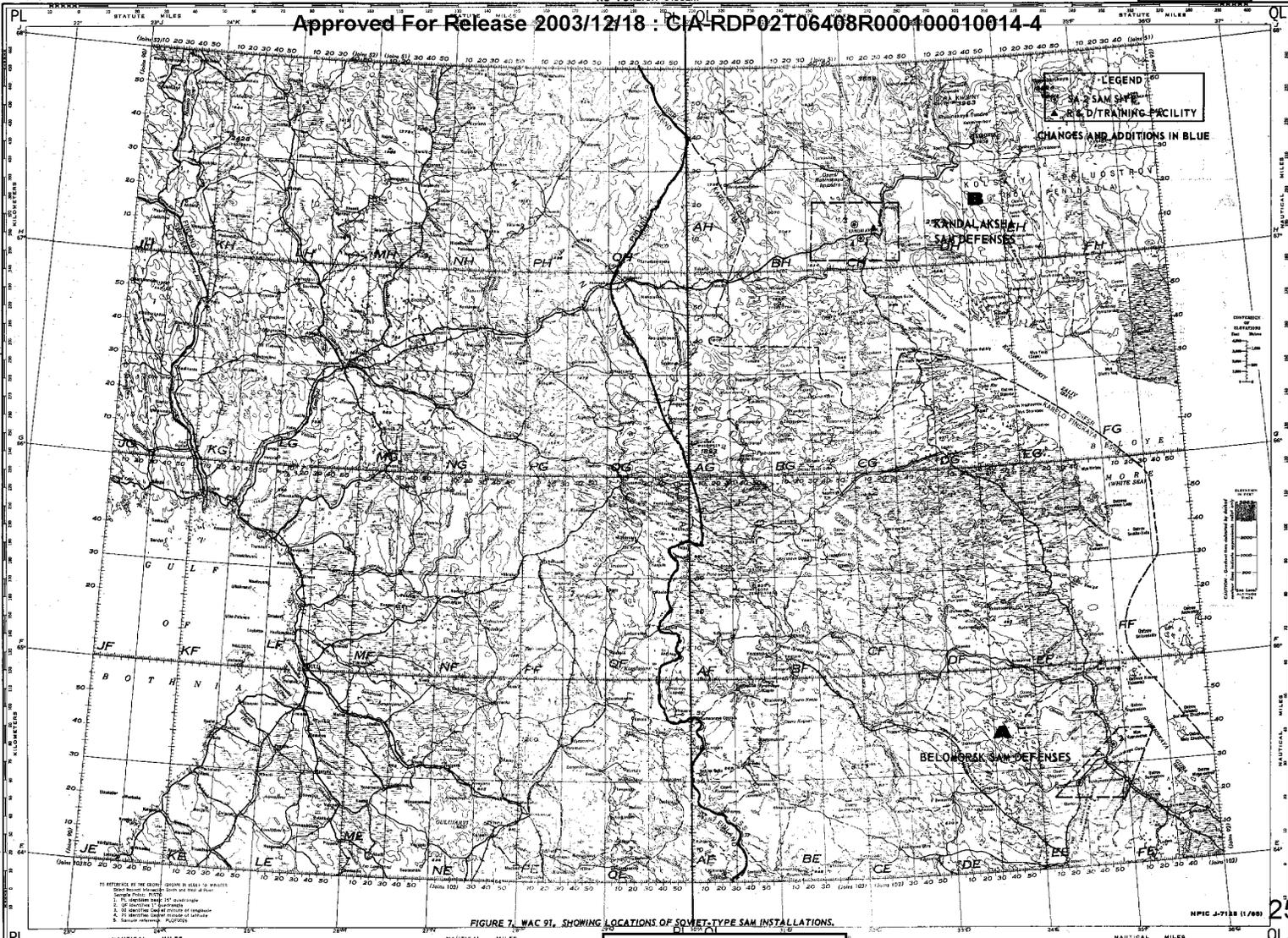


FIGURE 7, WAC 91, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

NPIC J-7138 (1/68)

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MT. KHBINY (91)

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Table 6. SAM Installations on WAC 98

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
▲ Arkhangelsk/Severodvinsk SAM Defenses (in defense of the city complexes and port facilities; the naval facilities at Severodvinsk and Arkhangelsk; and Arkhangelsk/Kholm Airfield. Headquarters of Northern Fleet Missile Test Complex is at Severodvinsk)							
1	Severodvinsk SAM Site B28-2,	64-25-20N 39-25-00E	UR 092-22	SA-2, fan			
2	Severodvinsk SAM Site A27-2,	64-32-40N 39-30-20E	UR 092-22	SA-3, configuration undetermined			
3	Severodvinsk SAM Site A20-2,	64-28-00N 39-43-30E	UR 092-22	SA-2, fan			
4	Severodvinsk SAM Support Facility,	64-27-00N 39-49-30E	UR 092-22	Type I (rectangle)			
5	Severodvinsk SAM Site A36-2,	64-38-40N 39-49-50E	UR 092-22	SA-2, daisy			
6	Severodvinsk SAM Site B02-2,	64-45-35N 39-57-55E	UR 092-22	SA-2, daisy			Small, fenced support facility connected with this site which probably also supports Severodvinsk SAM Site B02-3. NPIC has targeted this as a separate SAM Support Facility, Type IA.
7	Severodvinsk SAM Site B02-3,	64-46-10N 39-59-00E	UR 092-22	SA-3, configuration undetermined			
8	Arkhangelsk SAM Site B22-2,	64-24-00N 40-18-10E	UR 092-22	SA-2, fan			
9	Arkhangelsk SAM Site B22A-2,	64-23-20N 40-18-40E	UR 092-22	SA-2, fan			
10	Arkhangelsk SAM Site B36-2,	64-48-00N 40-27-00E	UR 092-22	SA-2, fan			Small, fenced support facility associated with site. NPIC has targeted this as a separate SAM Support Facility, Type IA.
11	Arkhangelsk SAM Support Facility,	64-31-25N 40-43-50E	UR 092-22	Type II (square)			
12	Arkhangelsk SAM Site B13-2,	64-24-30N 41-01-00E	UR 092-22	SA-2, fan			
13	Severodvinsk SAM Site A01-2,	64-28-10N 39-51-05E	UR 092-22	SA-3, configuration undetermined			
14	Severodvinsk SAM Site A20-3,	64-27-00N 39-45-10E	UR 092-22	SA-3, configuration undetermined			
15	Arkhangelsk SAM Site A07-2,	64-35-48N 40-46-29E	UR 092-22	SA-2, configuration undetermined			

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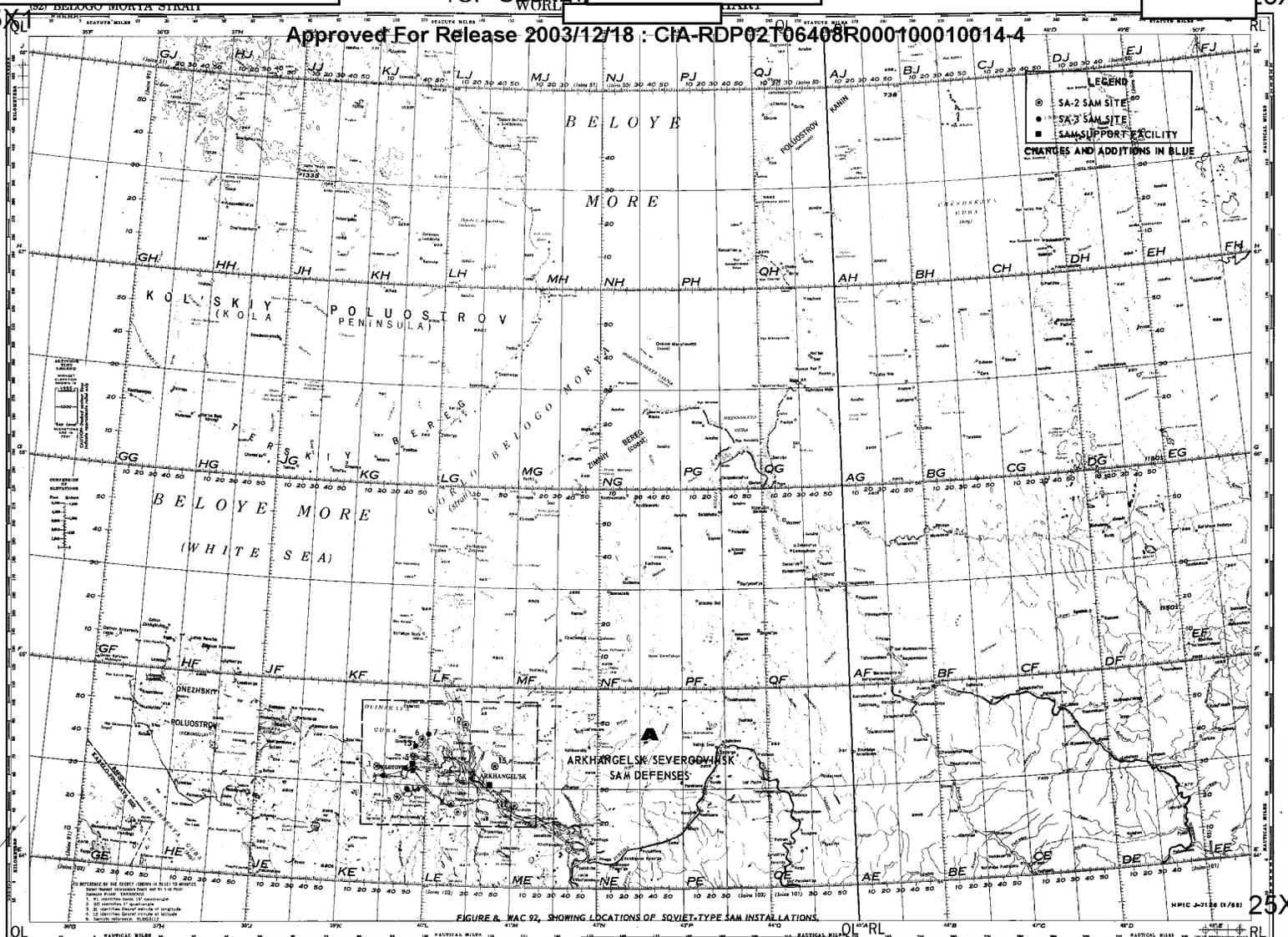


FIGURE A WAC 92, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

NPIC 2-7158 (1/68)

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Table 6. SAM Installations on WAC 108

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks	
A USSR Northwestern Border Sam Defenses (in defense of the northwestern border of the USSR, and specifically, the Petrozavodsk city complex)								
1	Volkhov SAM Site A01-2, [redacted]	60-05-10N 32-20-35E	UR 0102-21	SA-2, link			[redacted]	
2	Volkhov SAM Site C04-2, [redacted]	60-19-00N 32-54-20E	UR 0102-21	SA-2, configuration undetermined				
3	Lodeynoye Pole SAM Site A25-2, [redacted]	60-40-31N 33-21-09E	UR 0102-21	SA-2, link				
19.	Podporozhye SAM Site B08-2, [redacted]	61-05-29N 34-21-43E	UR 0102-16	SA-2, link				
20.	Podporozhye SAM Site A30-2, [redacted]	60-56-25N 34-01-15E	UR 0102-16	SA-2, fan				
4	Petrozavodsk SAM Site B30-2, [redacted]	61-51-30N 33-54-00E	UR 0102-11	SA-2, fan				
5	Petrozavodsk SAM Support Facility, [redacted]	61-48-45N 34-04-30E	UR 0102-11	Type II (square)				
6	Petrozavodsk SAM Site A28-2, [redacted]	61-47-50N 34-09-00E	UR 0102-11	SA-2, daisy				
7	Petrozavodsk SAM Site B13-2, [redacted]	61-34-50N 34-42-00E	UR 0102-17	SA-2, link				
8	Petrozavodsk SAM Site B01-2, [redacted]	61-59-20N 34-24-20E	UR 0102-11	SA-2, daisy				
B Plesetsk ICBM Complex SAM Defenses (in defense of Plesetsk ICBM Complex)								
9	Plesetsk ICBM Complex SAM Site C24-2, [redacted]	62-44-30N 40-01-20E	UR 0102-9	SA-2, fan			This site is immediately north of Plesetsk ICBM Complex SAM Site B36-2. It was previously carried as a Category 2 SA-0 SAM Site.	
10	Plesetsk ICBM Complex SAM Site B99-2, [redacted]	62-58-30N 40-08-30E	UR 0102-9	SA-2, fan				
11	Plesetsk ICBM Complex SAM Site A32-3, [redacted]	63-01-10N 40-22-00E	UR 0102-9	SA-3, configuration F				
12	Plesetsk ICBM Complex SAM Site B38A-2, [redacted]	63-11-00N 40-33-30E	UR 0102-9	SA-2, unrevetted				
13	Plesetsk ICBM Complex SAM Site B36-2, [redacted]	63-10-50N 40-34-05E	UR 0102-9	SA-2, probable daisy				
14	Plesetsk ICBM Complex SAM Site B06-2, [redacted]	63-06-10N 41-06-30E	UR 0102-9	SA-2, possible link				
15	Plesetsk ICBM Complex SAM Site B08A-2, [redacted]	63-05-55N 41-06-15E	UR 0102-9	SA-2, unrevetted				This site is immediately south of Plesetsk ICBM Complex SAM Site B06-2. It was previously carried as a Category 2 SA-0 SAM Site. This installation was deleted as a SAM Site on photography of [redacted]. The site area has been abandoned and can no longer be distinguished.
16	Plesetsk ICBM Complex SAM Support Facility, [redacted]	62-49-25N 40-40-30E	UR 0102-9	Type I (rectangular)				
17	Plesetsk ICBM Complex SAM Site B17-2, [redacted]	62-43-35N 40-46-40E	UR 0102-9	SA-2, daisy				
18	Plesetsk ICBM Complex SAM Site B12-2, [redacted]	62-49-50N 41-08-00E	UR 0102-9	SA-2, chevron				
21.	Plesetsk ICBM Complex SAM Site B03-3, [redacted]	63-03-00N 40-42-15E	UR 0102-9	SA-3, configuration A				
22.	Plesetsk ICBM Complex SAM Site B06-3, [redacted]	63-04-20N 41-05-00E	UR 0102-9	SA-3, configuration F				
23.	Plesetsk ICBM Complex Probable SA-3 SAM Site, [redacted]	62-57-50N 40-51-30E	UR 0102-9	SA-3, configuration A				

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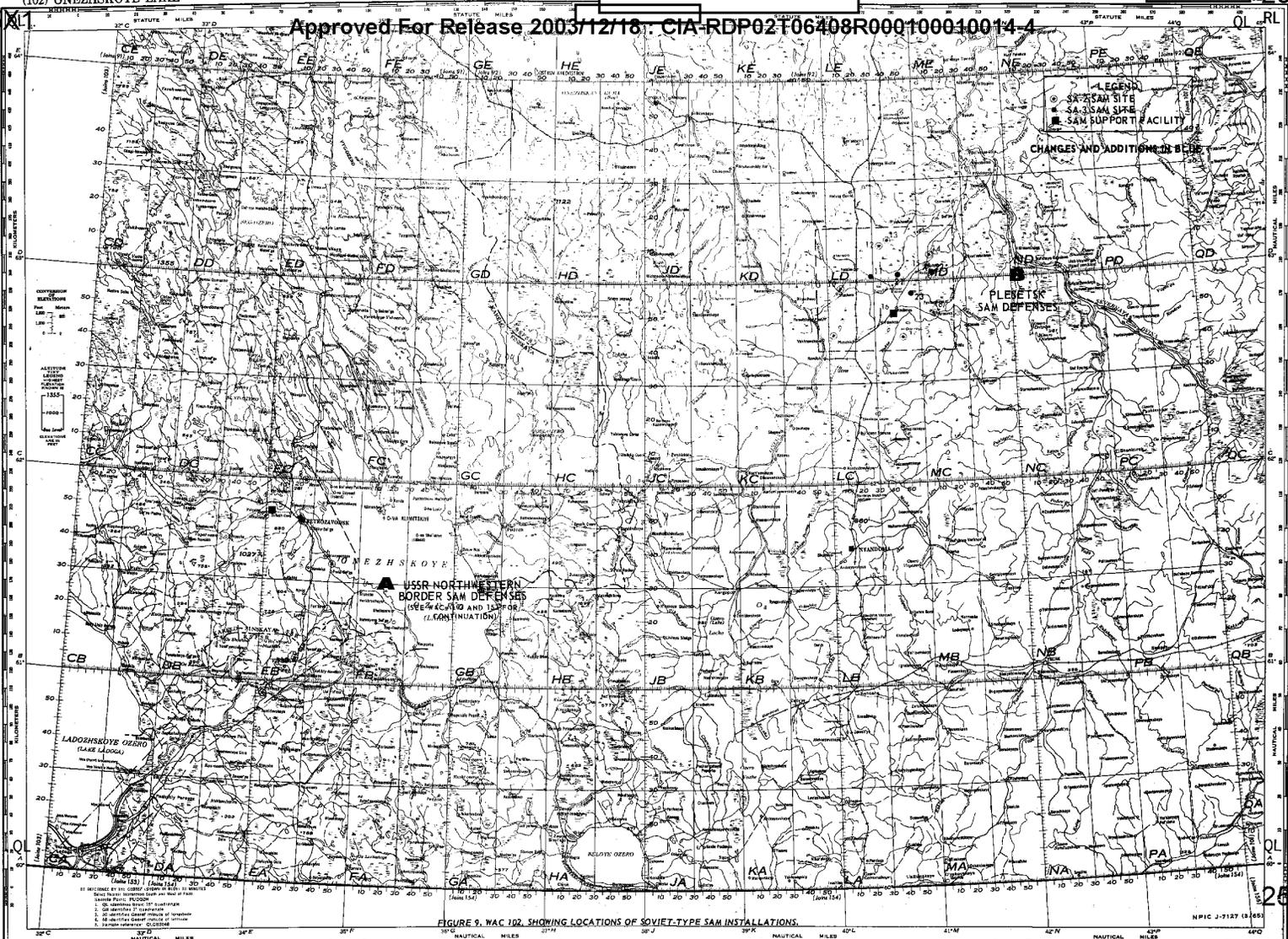
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Table 7. SAM Installations on WAC 103

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
A USSR Northwestern Border SAM Defenses (in defense of the northwestern border of the USSR and Leningrad, second largest city in the USSR; major shipbuilding and naval facilities; airfields; and defense research, development, and production facilities)							
1	Leningrad SAM Site B99-3, [redacted]	60-01-20N 29-41-30E	UR 0103-25	SA-3, configuration G			Construction at this complex was suspended early in 1962, following a probable change in concept, probably based on a decision to modify radically the associated electronic facilities. The original concept was a probable dual-function AMM/SAM defensive system. The major change in electronic facilities possibly indicates a switch to primary emphasis on a long range SAM role against air-breathing vehicles. Since this is not a unanimous conclusion of the intelligence community, and because the original AMM role cannot be ruled out, the complex is being carried as an AMM/SAM installation.
2	Leningrad SAM Site B99-2, [redacted]	60-01-30N 29-41-45E	UR 0103-25	SA-2, fan			
3	Leningrad SAM Site D30-2, [redacted]	60-10-00N 29-22-55E	UR 0103-24	SA-2, fan			
4	Leningrad SAM Site D30-3, [redacted]	60-10-00N 29-23-10E	UR 0103-24	SA-3, configuration G			
5	Leningrad SAM Site D31-2, [redacted]	60-12-55N 29-29-55E	UR 0103-24	SA-2, chevron			
6	Leningrad SAM Site C31-2, [redacted]	60-14-90N 29-34-55E	UR 0103-24	SA-2, fan			
7	Leningrad SAM Site C31-3, [redacted]	60-14-00N 29-34-45E	UR 0103-24	SA-3, category G			
8	Leningrad SAM Site C32A-1, [redacted]	60-14-15N 29-40-00N	UR 0103-25	SA-2, fan			
9	Leningrad SAM Site C32-2, [redacted]	60-15-45N 29-42-20E	UR 0103-25	SA-2, fan			
10	Leningrad SAM Site C33-2, [redacted]	60-17-05N 29-43-40E	UR 0103-25	SA-2, chevron			
11	Leningrad SAM Site C33A-1, [redacted]	60-18-50N 29-48-45E	UR 0103-25	SA-2, fan			
12	Leningrad SAM Site D32-3, [redacted]	60-20-10N 29-37-30E	UR 0103-25	SA-3, configuration G			
13	Leningrad SAM Site C34-2, [redacted]	60-20-15N 29-53-55E	UR 0103-25	SA-2, chevron			
14	Leningrad NW Probable AMM Launch Complex D34, [redacted]	60-27-15N 29-44-00E	UR 0103-25	See remarks			
15	Leningrad SAM Site D34-3, [redacted]	60-27-20N 29-44-00E	UR 0103-25	SA-3, configuration J			This SA-3 site is located within the security fence which surrounds Probable AMM Complex D34.
16	Leningrad SAM Site D35-3, [redacted]	60-28-00N 29-57-20E	UR 0103-25	SA-3, configuration J			
17	Leningrad SAM Site C36-3, [redacted]	60-23-00N 30-09-30E	UR 0103-25	SA-3, configuration J			
18	Leningrad SAM Site C35-2, [redacted]	60-21-30N 30-06-40E	UR 0103-25	SA-2, fan			
19	Leningrad SAM Assembly and Support Facility No 1, 0103-00606 [redacted]	60-23-20N 30-11-10E	UR 0103-25	Missile assembly & storage facility			
20	Leningrad SAM Site C36-2, [redacted]	60-21-00N 30-16-05E	UR 0103-25	SA-2, chevron			
21	Leningrad SAM Site C01-3, [redacted]	60-24-20N 30-34-00E	UR 0103-25	SA-3, configuration J			
22	Leningrad SAM Site C01-2, [redacted]	60-20-00N 30-27-05E	UR 0103-25	SA-2, chevron			
23	Leningrad SAM Site C02-2, [redacted]	60-18-50N 30-36-50E	UR 0103-25	SA-2, fan			
24	Leningrad SAM Site C02-3, [redacted]	60-18-50N 30-37-00E	UR 0103-25	SA-3, configuration J			
25	Leningrad SAM Site C04-3, [redacted]	60-14-55N 30-53-20E	UR 0103-25	SA-3, configuration J			
26	Leningrad SAM Site C04-2, [redacted]	60-15-30N 30-52-35E	UR 0103-25	SA-2, fan			
27	Leningrad SAM Site C05-2, [redacted]	60-12-15N 30-54-40E	UR 0103-25	SA-2, chevron			
28	Leningrad NE Probable AMM Launch Complex B05, [redacted]	60-06-20N 30-44-45E	UR 0103-25	See remarks			
29	Leningrad SAM Site C06-3, [redacted]	60-07-40N 31-00-10E	UR 0103-25	SA-3, configuration J			This site could possibly serve as a training facility associated with the SA-2 and possible AMM training sites at C06. Consists of two SA-2 sites and a possible AMM training site (the latter first appeared in [redacted]). This is one of four such facilities at Leningrad.
30	Leningrad SAM Training Facility C06, [redacted]	60-07-10N 30-59-20E	UR 0103-25	Training facility			
31	Leningrad SAM Assembly and Support Facility No 2, [redacted]	60-03-00N 31-09-30E	UR 0103-25	Missile assembly & storage facility			
32	Leningrad SAM Site C08-2, [redacted]	60-01-20N 31-02-45E	UR 0103-25	SA-2, fan			
33	Leningrad SAM Site B36-2, [redacted]	60-27-15N 30-13-40E	UR 0103-25	SA-2, possible link			
34	Leningrad SAM Site C01A-2, [redacted]	60-21-35N 30-21-10E	UR 0103-25	SA-2, configuration undetermined			
35	Leningrad SAM Site C04A-2, [redacted]	60-18-00N 30-51-40E	UR 0103-25	SA-2, configuration undetermined			

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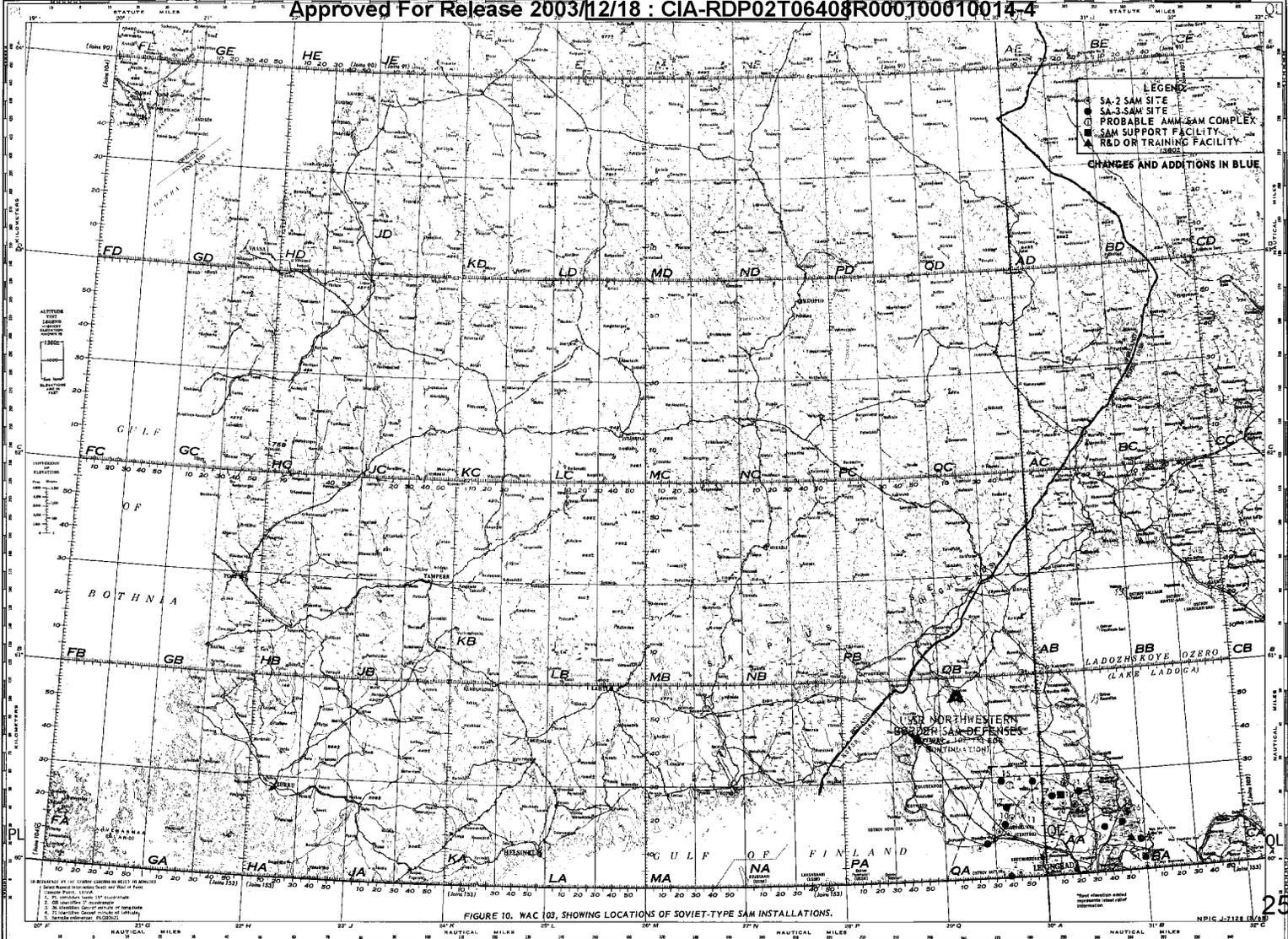


FIGURE 10. WAC 103, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 8. SAM Installations on WAC 127

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
A Bratsk Dam SAM Defenses (in defense of Bratsk hydroelectric dam)							
1	Bratsk Dam SAM Site B31-2, [redacted]	56-14-00N 101-27-00E	UR 0127-22	SA-2, link	[redacted]		
2	Bratsk Dam SAM Site B31A-2, [redacted]	56-12-50N 101-30-45E	UR 0127-22	SA-2, unrevetted			This site was previously carried as a category 2 SA-0 SAM site.
3	Bratsk Dam SAM Support Facility, [redacted]	56-17-20N 101-40-00E	UR 0127-22	Type I (rectangular)			
4	Bratsk Dam SAM Site C35-2, [redacted]	56-30-00N 101-35-10E	UR 0127-22	SA-2, probable link			
5	Bratsk Dam SAM Site A05-2, [redacted]	56-10-00N 101-55-15E	UR 0127-22	SA-2, link			
6	Bratsk Dam SAM Site C03-2, [redacted]	56-26-50N 102-05-30E	UR 0127-22	SA-2, link			
7	Bratsk Dam SAM Site C03A-2, [redacted]	56-24-40N 102-05-30E	UR 0127-22	See remarks			This site, formerly called a category 2 SA-0 SAM site, consists of at least 5 probable positions (unrevetted) located along an irregular road pattern.

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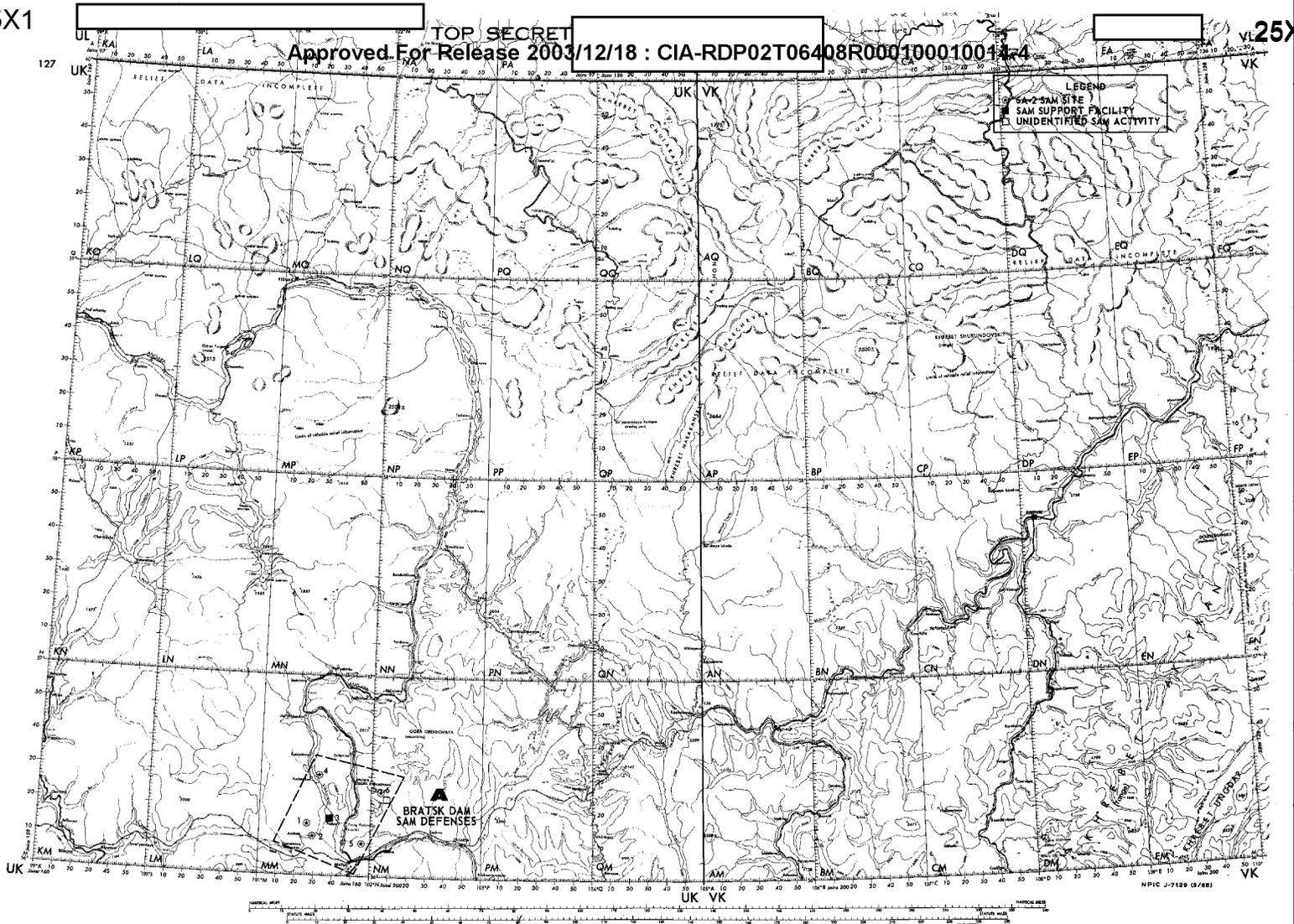


FIGURE 11. WAC 127, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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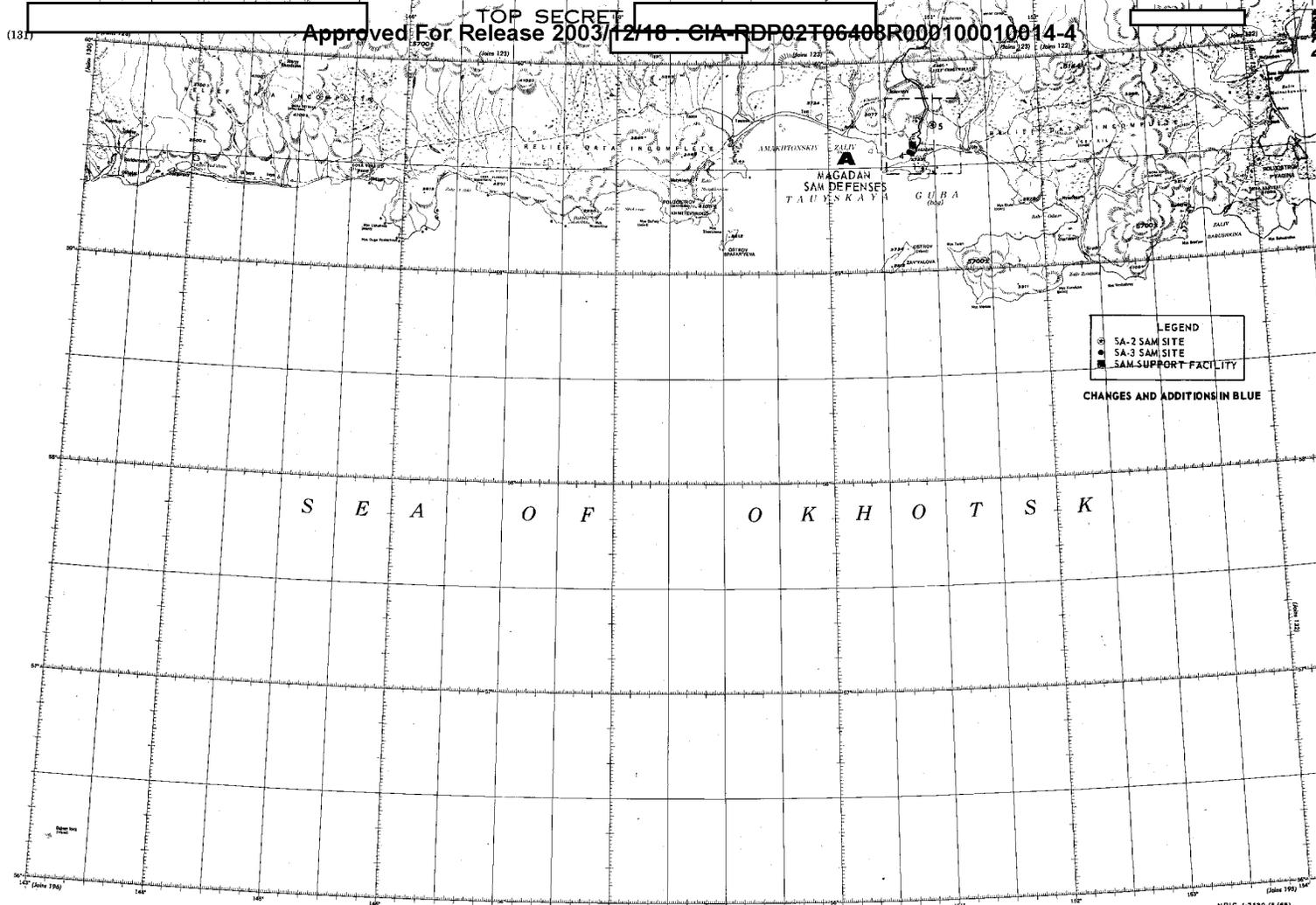
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Table 9. SAM Installations on WAC 131

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated‡	Remarks
A Magadan SAM Defenses (in defense of Magadan complex and port)							
1	Magadan SAM Site B02-2, [redacted]	59-43-31N 150-52-10E	UR 0131-4	SA-2, chevron	[redacted]		
2	Magadan SAM Support Facility, [redacted]	59-38-10N 150-48-30E	UR 0131-4	Type II (square)			
3	Magadan SAM Site A13-2, [redacted]	59-30-30N 150-55-30E	UR 0131-4	SA-2, link			
4	Magadan Possible SA-3 SAM Site	59-34-30N 150-44-20E	UR 0131-4	SA-3, configuration undetermined			
5	Magadan SAM Site B04-2, [redacted]	59-42-45N 150-59-12E	UR 0131-4	SA-2, modified chevron			

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Table 10. SAM Installations on WAC 152

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated ‡	Remarks
A USSR Northwestern Border SAM Defenses (in defense of the northwestern border of the USSR, and small town complexes at Liepaja and Ventspils)							
1	Ventspils SAM Site A23-2, [redacted]	57-22-35N 21-31-40E	UR 0152-20	SA-2, link	[redacted]		
2	Liepaja SAM Site C02-3, [redacted]	56-53-10N 21-10-00E	UR 0152-20	SA-3, configuration F			
3	Liepaja SAM Site C02-3, [redacted]	56-53-00N 21-10-15E	UR 0152-20	SA-2, link			
4	Liepaja SAM Site A01-2, [redacted]	56-35-20N 21-01-10E	UR 0152-25	SA-2, link			
5	Liepaja SAM Site A36-3, [redacted]	56-33-30N 21-00-05E	UR 0152-25	SA-3, configuration G			
6	Liepaja SAM Support Facility, [redacted]	56-31-30N 21-06-10E	UR 0152-25	Type II (square)			
7	Liepaja SAM Site A19-3, [redacted]	56-27-30N 21-00-20E	UR 0152-25	SA-3, configuration F			
8	Palanga SAM Site B01-3, [redacted]	56-08-52N 21-08-45E	UR 0152-25	SA-3, configuration F			
B Nigrande SAM Defenses (in defense of Nigrande IRBM Complex)							
9	Liepaja SAM Site D11-2, [redacted]	56-25-10N 21-54-55E	UR 0152-25	SA-2, link			

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Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears†	Mission & Date Installation Negated†	Remarks
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NOTE: Installations whose defense role cannot be determined, and which are not located within the limits of a SAM defense area, are found under subheading J. "Defense Role Undetermined".

USSR Northwestern Border SAM Defenses (in defense of the northwestern border of the USSR, and the following specific targets: Risti MRBM Complex; Paldiski Naval Base; Haapsalu town Complex; Tallinn town Complex and Naval Base; Rakvere MRBM Complex; Moloskovitsy MRBM Complex; and Leningrad, second largest city in the USSR, which contains major shipbuilding and naval facilities, airfields, and defense research, development, and production facilities)

1	Kuressaare SAM Site C22-2	57-55-55N 22-04-10E	UR 0153-11	SA-2, link			
2	Kuressaare SAM Site A32-2	58-19-05N 22-19-00E	UR 0153-11	SA-2, link			
3	Kuressaare SAM Site B07-0	58-22-20N 22-54-05E	UR 0153-11	SA-0, category 1			
4	Haapsalu SAM Site C21-2	58-36-30N 23-11-00E	UR 0153-6	SA-2, link			
5	Haapsalu SAM Site A26-2	58-55-50N 23-26-35E	UR 0153-6	SA-2, link			
6	Tallinn SAM Site B27-2	59-21-50N 24-06-50E	UR 0153-1	SA-2, link			
7	Tallinn SAM Site A30-2	59-27-00N 24-26-15E	UR 0153-2	SA-2, link			
8	Tallinn SAM Site A22-2	59-20-10N 24-37-10E	UR 0153-2	SA-2, fan			
9	Tallinn SAM Support Facility	59-20-50N 24-47-10E	UR 0153-2	Type I (rectangular)			
10	Tallinn SAM Site A02-2	59-39-10N 24-52-30E	UR 0153-2	SA-2, link			
11	Tallinn SAM Site C09-2	59-27-20N 25-29-20E	UR 0153-2	SA-2, link			
12	Tapa SAM Site A21-2	59-11-20N 25-54-25E	UR 0153-7	SA-2, link			
13	Rakvere MRBM Complex SAM Site B35-2	59-23-50N 26-18-20E	UR 0153-2	SA-2, link			
14	Rakvere MRBM Complex SAM Site B06-2	59-21-50N 26-54-10E	UR 0153-3	SA-2, star			
15	Narva SAM Site A34-2	59-26-10N 28-08-40E	UR 0153-3	SA-2, link			
16	Moloskovitsy MRBM Complex SAM Support Facility I	59-32-10N 28-47-55E	UR 0153-4	Type II (square)			
17	Moloskovitsy MRBM Complex SAM Site A22-2	59-23-10N 29-00-00E	UR 0153-4	SA-2, link			
18	Moloskovitsy MRBM Complex SAM Site B29-2	59-32-40N 28-47-40E	UR 0153-4	SA-2, link			
19	Moloskovitsy MRBM Complex SAM Site B35-0	59-39-25N 29-02-10E	UR 0153-4	SA-0, category 1			
20	Leningrad SAM Site D28-3	59-57-50N 29-17-10E	UR 0153-4	SA-3, configuration G			
21	Leningrad SAM Site D28-2	59-57-50N 29-17-25E	UR 0153-4	SA-2, chevron			
22	Leningrad SAM Site C27-2	59-53-40N 29-26-10E	UR 0153-4	SA-2, fan			
23	Leningrad SAM Site D25-3	59-43-20N 29-17-10E	UR 0153-4	SA-3, configuration J			
24	Leningrad SAM Site C26-3	59-49-30N 29-23-30E	UR 0153-4	SA-3, configuration J			
25	Leningrad SW Probable AMM Launch Complex D25	59-43-00N 29-18-20E	UR 0153-4	See remarks			
26	Leningrad SAM Site C26-2	59-47-15N 29-32-10E	UR 0153-4	SA-2, chevron			
27	Leningrad SAM Site C25-2	59-46-30N 29-34-00E	UR 0153-4	SA-2, fan			
28	Leningrad SAM Site D24-3	59-37-30N 29-28-00E	UR 0153-4	SA-3, configuration J			
29	Leningrad SAM Site C23-2	59-36-50N 29-39-50E	UR 0153-4	SA-2, chevron			
30	Leningrad SAM Site C24-2	59-40-50N 29-37-55E	UR 0153-4	SA-2, fan			
31	Leningrad SAM Site C23-3	59-34-50N 29-43-50E	UR 0153-4	SA-3, configuration J			
32	Leningrad SAM Site C22-2	59-32-25N 29-46-10E	UR 0153-4	SA-2, fan			
33	Leningrad SAM Site C21A	59-32-40N 29-57-30E	UR 0153-4	SA-2, fan			
34	Leningrad SAM Assembly and Support Facility No 4	59-31-20N 29-55-10E	UR 0153-4	Missile assembly & storage facility			
35	Leningrad SAM Site C21-3	59-30-30N 29-56-00E	UR 0153-4	SA-3, configuration J			
36	Leningrad SAM Site C21-2	59-30-50N 29-56-00E	UR 0153-4	SA-2, fan			
37	Leningrad SAM Site C20-2	59-30-20N 30-06-20E	UR 0153-4	SA-2, chevron			
38	Leningrad SAM Site C19-2	59-30-05N 30-14-30E	UR 0153-4	SA-2, fan			
39	Leningrad SAM Site C18-2	59-31-10N 30-25-05E	UR 0153-4	SA-2, chevron			
40	Leningrad SAM Site C17-2	59-32-00N 30-30-55E	UR 0153-4	SA-2, fan			

Construction at this complex was suspended early in 1963, following a probable change in concept, probably based on a decision to modify radically the associated electronic facilities. This modification program is currently being implemented at the NW and NE complexes, where the major change in electronic facilities possibly indicates a switch with primary emphasis on a long-range SAM role against air-breathing vehicles. This modification program has not yet been initiated at this complex. As this is not a unanimous conclusion of the intelligence community, and because the original AMM role cannot be ruled out, the complex is being carried as an AMM/SAM installation.

Believed to be a probable training facility, because of its location with respect to adjacent building area, and its orientation. This is 1 of 4 such facilities located at Leningrad.

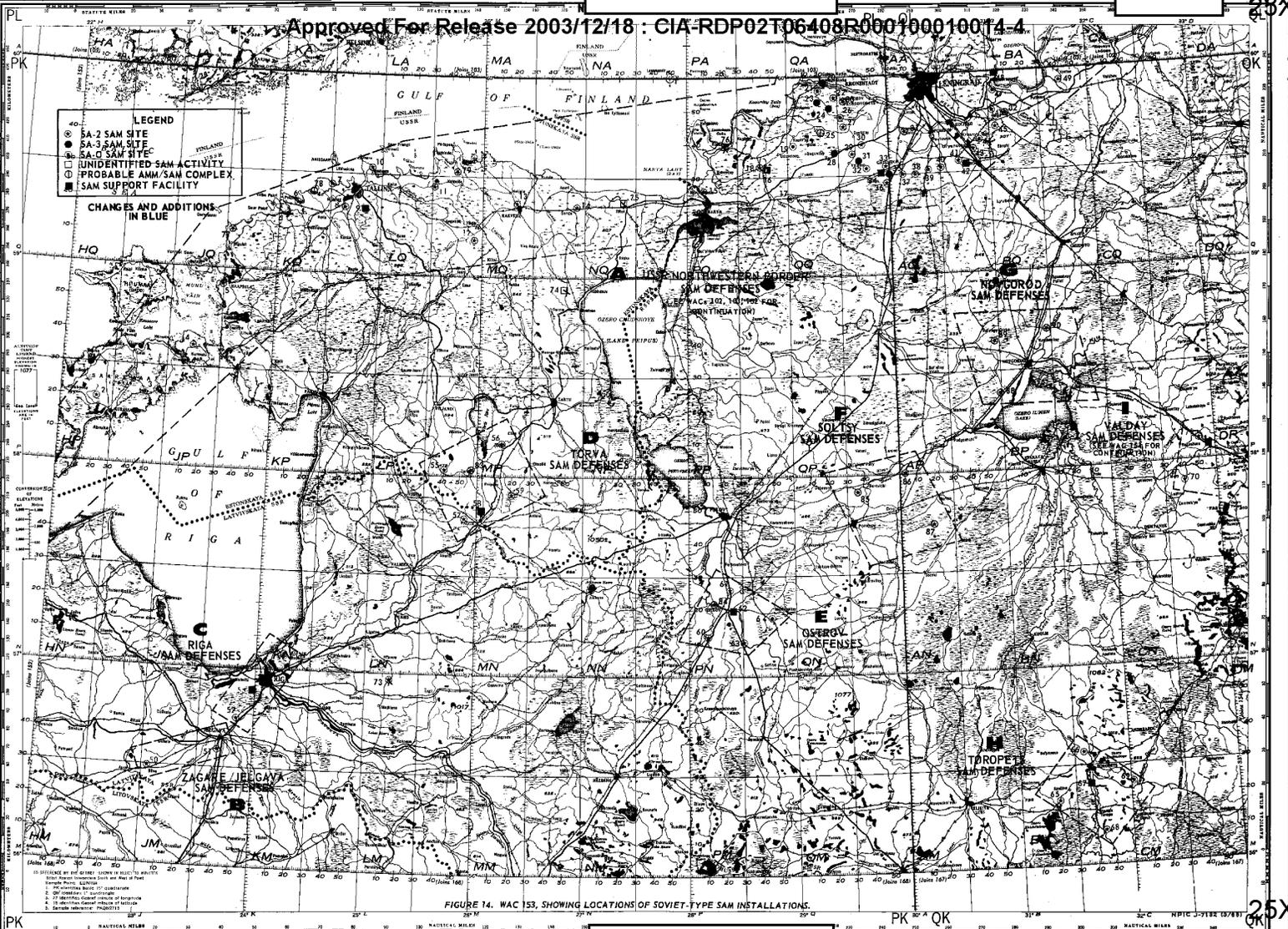
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Table 11. SAM Installations on WAC 153 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks	
41	Leningrad SAM Site C16-2	59-33-50N 30-41-45E	UR 0153-4	SA-2, chevron			This is 1 of 4 such facilities located at Leningrad.	
42	Leningrad SAM Assembly and Support Facility No 3	59-34-50N 30-44-00E	UR 0153-4	Missile assembly and storage facility				
43	Leningrad SAM Site C15-2	59-36-50N 30-49-30E	UR 0153-5	SA-2, fan				
44	Leningrad SAM Site C14-2	59-39-35N 30-52-10E	UR 0153-5	SA-2, chevron				
45	Leningrad SAM Site C13-2	59-43-40N 31-04-00E	UR 0153-5	SA-2, fan				
46	Leningrad SAM Site C11-2	59-49-25N 31-02-40E	UR 0153-5	SA-2, chevron				
47	Leningrad SAM Site C10-2	59-54-45N 31-02-00E	UR 0153-5	SA-2, fan				
48	Leningrad SAM Site C06-3	59-59-40N 31-04-30E	UR 0153-5	SA-3, configuration J			This complex, along with a similar complex near Chorepovets, USSR, forms the beginning of a probable long-range SAM defense system.	
49	Volkhov SAM Site B28-2	59-56-45N 31-43-50E	UR 0153-5	SA-2, link				
77	Haapsalu SAM Site B36-2	59-12-30N 23-31-10E	UR 0153-1	SA-2, configuration undetermined				
78	Tallinn SAM/AMM Launch Complex	59-24-25N 24-19-30E	UR 0153-2	See remarks				
79	Tallinn SAM Site D08-2	59-31-30N 25-45-30E	UR 0153-2	SA-2, link			This site consists of 5 unrevetted launch positions and a central guidance area. It is probably a training site.	
80	Leningrad SAM Site	59-52-15N 29-34-40E	UR 0153-4	SA-2, see remarks				
81	Leningrad SAM Site A21-2	59-42-40N 30-06-15E	UR 0153-4	SA-2, configuration undetermined				
82	Leningrad SAM Site C11A-2	59-47-05N 31-07-20E	UR 0153-5	SA-2, star				
B Zagare/Jelgava MRBM Complexes SAM Defenses (probably in defense of Zagare MRBM Complex and Jelgava MRBM Complex)								
50	Jelgava SAM Site C25-2	56-29-20N 23-02-40E	UR 0153-21	SA-2, link			One large circular revetment of unknown function is associated with this site.	
51	Jelgava SAM Site A22-2	56-34-50N 23-39-15E	UR 0153-21	SA-2, star				
C Riga SAM Defenses (in defense of Riga)								
52	Jelgava SAM Site A03-2	56-45-00N 23-49-30E	UR 0153-21	SA-2, link				
53	Riga SAM Support Facility	56-54-32N 23-56-00E	UR 0153-16	Type I (rectangular)				
54	Riga SAM Site B03-2	57-05-40N 24-13-00E	UR 0153-17	SA-2, link				
D Torva MRBM Complex SAM Defenses (in defense of Torva MRBM Complex)								
55	Torva MRBM Complex SAM Site B30-2	58-02-30N 25-39-20E	UR 0153-12A	SA-2, link			One large circular revetment of unknown function is associated with this site.	
56	Torva MRBM Complex SAM Site B02-2	58-10-05N 26-12-55E	UR 0153-12	SA-2, link				
57	Torva MRBM Complex SAM Site B22-2	57-47-42N 25-52-00E	UR 0153-12	SA-2, link				
58	Torva MRBM Complex SAM Support Facility	57-50-40N 26-02-30E	UR 0153-12	Type I (rectangular)				
59	Torva MRBM Complex SAM Site A12-2	57-54-30N 26-19-25E	UR 0153-12	SA-2, link				
83	Torva MRBM Complex SAM Site A32-2	58-02-10N 25-57-10E	UR 0153-12	SA-2, configuration undetermined				
E Ostrov/Gorokhovka Airfield SAM Defenses (in defense of Ostrov/Gorokhovka Airfield)								
60	Ostrov SAM Site A22-2	57-12-45N 28-10-10E	UR 0153-18	SA-2, fan			One large circular revetment of unknown function is associated with this site.	
61	Ostrov SAM Site A01-2	57-38-00N 28-01-00E	UR 0153-18	SA-2, fan				
62	Ostrov SAM Support Facility	57-19-20N 28-28-30E	UR 0153-18	Type I (rectangular)				
63	Ostrov SAM Site B15-2	57-10-05N 28-29-55E	UR 0153-18	SA-2, fan				
64	Ostrov SAM Site B11-0	57-17-05N 28-46-25E	UR 0153-19	SA-0, category I				
84	Ostrov SAM Site A31-2	57-22-50N 28-13-20E	UR 0153-18	SA-2, star				
F Soltsey SAM Defenses (in defense of Soltsey Airfield, a primary long-range bomber base, and a nuclear weapons storage site)								
85	Soltsey SAM Site B24-2	57-55-30N 29-36-50E	UR 0153-14	SA-2, possible star			One large circular revetment of unknown function is associated with this site.	
86	Soltsey SAM Site C25-2	58-00-40N 30-02-20E	UR 0153-14	SA-2, link				
87	Soltsey SAM Site C19-2	57-44-00N 30-17-58E	UR 0153-14	SA-2, star				
G Novgorod SAM Defenses (in defense of Novgorod Complex; light industry, rail and river port facilities, several military installations, and Krechevitsy Airfield)								
88	Novgorod SAM Site B23-2	58-23-05N 30-50-20E	UR 0153-15	SA-2, fan				

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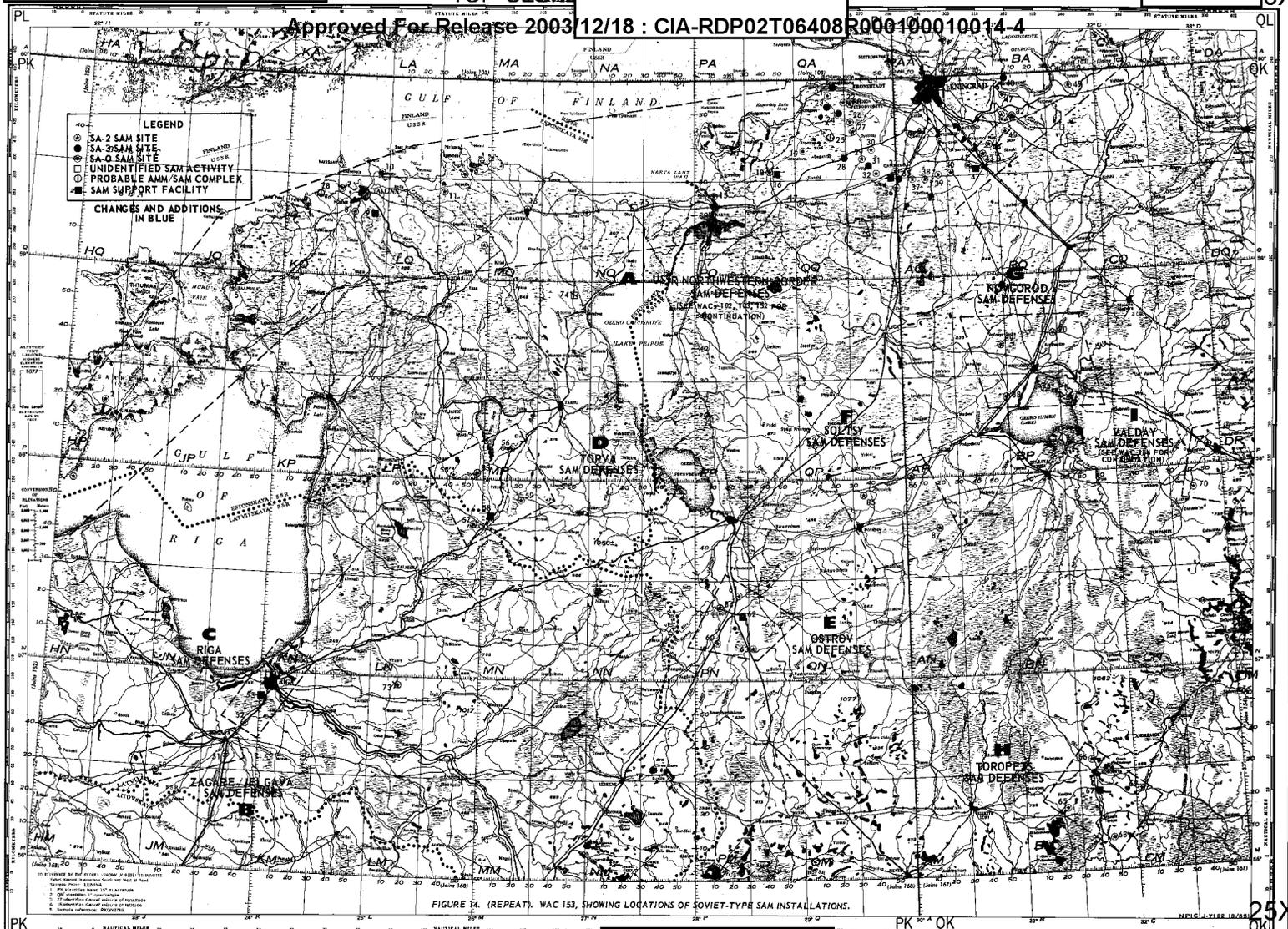
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GULF OF RIGA (153)

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Table 11. SAM Installations on WAC 163 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated ‡	Remarks
89	Novgorod SAM Site B31-2, [redacted]	58-38-00N 30-57-30E	UR 0153-10	SA-2, fan	[redacted]	[redacted]	
90	Novgorod SAM Site B04-2, [redacted]	58-41-30N 31-27-15E	UR 0153-10	SA-2, fan	[redacted]	[redacted]	
91	Novgorod SAM Site B12-2, [redacted]	58-24-40N 31-42-59E	UR 0153-10	SA-2, fan	[redacted]	[redacted]	
■ Toropets Regional Military Storage Installation SAM Defenses (in defense of Toropets Regional Military Storage Installation)							
65	Toropets SAM Site B28-2, [redacted]	56-19-40N 31-20-40E	UR 0153-25	SA-2, link	[redacted]	[redacted]	
66	Toropets SAM Site A34-2, [redacted]	56-33-00N 31-35-40E	UR 0153-25	SA-2, link	[redacted]	[redacted]	
67	Toropets SAM Support Facility, [redacted]	56-24-50N 31-38-15E	UR 0153-25	Type II (square)	[redacted]	[redacted]	
68	Toropets SAM Site B18-2, [redacted]	56-10-41N 31-44-00E	UR 0153-25	SA-2, link	[redacted]	[redacted]	
69	Toropets SAM Site B12-2, [redacted]	56-24-00N 32-01-10E	UR 0153-25	SA-2, link	[redacted]	[redacted]	
[redacted]							
■ Defense Role Undetermined							
73	Melita SAM Site A11-2, [redacted]	56-36-00N 26-12-10E	UR 0150-11	SA-2, configuration undetermined	[redacted]	[redacted]	This site has seldom been seen, and the photography was of poor quality. This installation was deleted as a SAM site on photography of [redacted] since it was no longer visible. This installation has been deleted as a suspect SAM site. It has been identified as a radar site.
74	Melita Suspect SAM Site, 0150	56-36-20N 26-11-20E	UR 0150-8	Type unknown, H-shaped	[redacted]	[redacted]	This installation has been deleted as a suspect SAM site. It has been identified as a radar site.
75	Iskud Suspect SAM Site, 0150	56-30-00N 27-21-00E	UR 0150-3	Type unknown, H-shaped	[redacted]	[redacted]	This installation has been deleted as a suspect SAM site. It has been identified as a radar site.
76	Narva Suspect SAM Site, 0150	56-36-00N 26-21-10E	UR 0150-8	Type unknown, H-shaped	[redacted]	[redacted]	This installation has been deleted as a suspect SAM site. It has been identified as a radar site.

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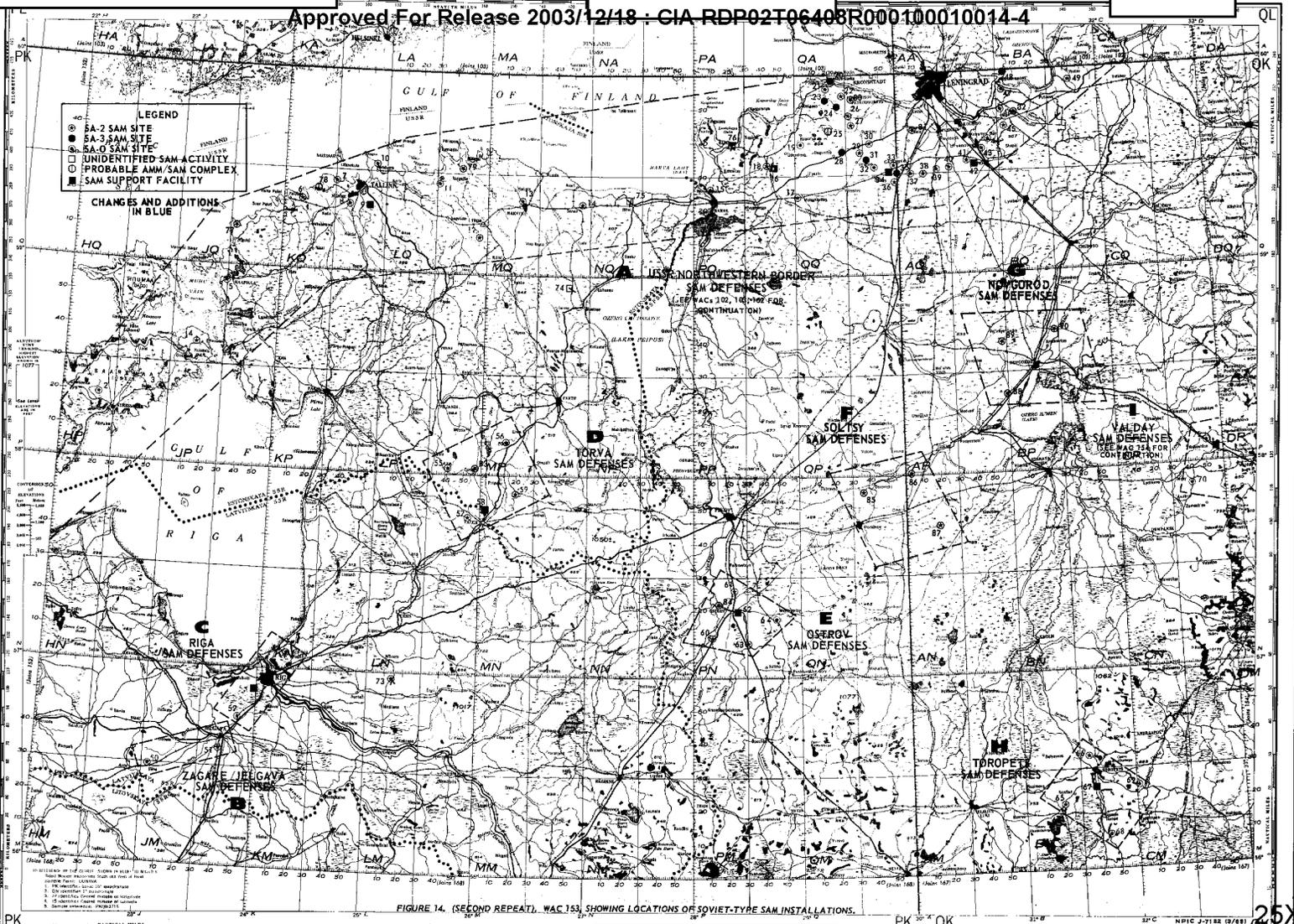
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GULF OF RIGA (153)

Table 12. SAM Installations on WAC 154

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
A Valday SAM Defenses [redacted]							
1	Yedrovo ICBM Complex SAM Site A26-2, [redacted]	57-50-05N 83-11-00E	UR 0154-11	SA-2, link			[redacted]
2	Yedrovo ICBM Complex SAM Site B34-2, [redacted]	58-02-50N 83-18-00E	UR 0154-11	SA-2, star			
B Rzhev SAM Defenses (in defense of Rzhev: air defense zone headquarters, and a large military airfield)							
63	Rzhev SAM Site B34-2, [redacted]	56-31-00N 84-04-40E	UR 0154-21	SA-2, link			[redacted]
64	Rzhev SAM Site B27-2, [redacted]	56-13-40N 83-53-43E	UR 0154-21	SA-2, configuration undetermined			
65	Rzhev SAM Site B16-2, [redacted]	56-01-26N 84-29-00E	UR 0154-21	SA-2, configuration undetermined			
66	Rzhev SAM Site B07-2, [redacted]	56-28-25N 84-47-30E	UR 0184-21	SA-2, link			
C Kalinin SAM Defenses (in defense of Kalinin: [redacted] large military airfield, important rail, industrial, and military center)							
67	Kalinin SAM Site B24-2, [redacted]	56-39-55N 85-28-20E	UR 0154-22	SA-2, link			[redacted]
68	Kalinin SAM Site B31-2, [redacted]	57-00-55N 85-27-50E	UR 0154-17	SA-2, configuration undetermined			
69	Kalinin SAM Site B02-2, [redacted]	57-09-40N 86-06-50E	UR 0154-17	SA-2, probable link			
70	Kalinin SAM Site B12-2, [redacted]	56-44-10N 86-17-15E	UR 0154-22	SA-2, link			
D Cherepovets SAM Defenses (in defense of Cherepovets: river port, transportation center, and large metallurgical combine)							
3	Cherepovets SAM Site B33-2, [redacted]	59-18-10N 37-38-55E	UR 0154-8	SA-2, link			[redacted]
4	Cherepovets SAM Support Facility, [redacted]	59-07-30N 38-02-00E	UR 0154-8	Type II (square)			
5	Cherepovets SAM Site A15-2, [redacted]	59-00-00N 38-08-05E	UR 0154-8	SA-2, link			
77	Cherepovets SAM Site B03-2, [redacted]	59-19-20N 38-07-10E	UR 0154-3	SA-2, configuration undetermined			
78	Cherepovets AMM/SAM Launch Complex, [redacted]	59-06-30N 38-10-00E	UR 0154-8	See remarks			
This complex, along with a similar complex near Tallinn, forms the beginning of a probable long range SAM system.							
E Rybinsk SAM Defenses (in defense of Rybinsk: shipbuilding and aircraft engine production, second largest hydroelectric power plant in USSR)							
6	Rybinsk SAM Site B01-2, [redacted]	58-15-00N 38-51-00E	UR 0154-13	SA-2, link			[redacted]
7	Rybinsk SAM Site B29-2, [redacted]	58-06-40N 38-25-40E	UR 0154-13	SA-2, link			
8	Rybinsk SAM Support Facility, [redacted]	58-02-45N 38-43-30E	UR 0154-13	Type I (rectangular)			
9	Rybinsk SAM Site B23-2, [redacted]	57-53-30N 38-39-30E	UR 0154-13	SA-2, link			
10	Rybinsk SAM Site A13-2, [redacted]	57-58-20N 39-04-10E	UR 0154-13	SA-2, link			
F Moscow SAM Defenses (in defense of Soviet capital--largest city in USSR: major military, industrial, and research center)							
11	Moscow SAM Site E29-3, [redacted]	56-01-10N 36-19-20E	UR 0154-22	SA-3, configuration F			[redacted]
12	Moscow SAM Site E30-1, [redacted]	56-01-10N 36-20-45E	UR 0154-22	SA-1, herringbone			
13	Moscow SA-3 SAM Training Facility, [redacted]	56-00-15N 36-26-05E	UR 0154-22	SA-3, configuration C	Small-format photog-		
The proximity of the launch site to surrounding buildings indicates that this is a training facility.							
14	Moscow SAM Site E31-1, [redacted]	56-07-57N 36-29-38E	UR 0154-22	SA-1, herringbone			[redacted]
15	Moscow SAM Site E29-1, [redacted]	56-15-20N 36-37-52E	UR 0154-22	SA-1, herringbone			
16	Moscow SAM Site E32-3, [redacted]	56-16-05N 36-38-00E	UR 0154-22	SA-3, configuration G			
17	Moscow SAM Site E33-3, [redacted]	56-21-40N 36-46-40E	UR 0154-22	SA-3, configuration F			

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Table 12. SAM Installations on WAC 154 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks	
F Moscow SAM Defenses (continued)								
18	Moscow SAM Site E33-1, [redacted]	56-20-00N 36-48-27E	UR 0154-22	SA-1, herringbone			This is 1 of the 4 SA-1 sites at Moscow which shows possible AMM associated activity.	
19	Moscow SAM Site E34-3, [redacted]	56-25-35N 36-58-40E	UR 0154-22	SA-3, configuration F				
20	Moscow SAM Site E34-1, [redacted]	56-24-06N 37-00-32E	UR 0154-22	SA-1, herringbone				
21	Moscow SAM Site E35-3, [redacted]	56-27-21N 37-10-08E	UR 0154-22	SA-3, configuration F				
22	Moscow SAM Site E35-1, [redacted]	56-26-16N 37-10-43E	UR 0154-22	SA-1, herringbone				
23	Moscow SAM Site E36-1, [redacted]	56-28-56N 37-28-28E	UR 0154-22	SA-1, herringbone				
24	Moscow SAM Site E01-1, [redacted]	56-28-50N 37-41-40E	UR 0154-22	SA-1, herringbone				
25	Moscow SAM Site E02-1, [redacted]	56-28-20N 37-57-45E	UR 0154-22	SA-1, herringbone				
26	Moscow SAM Site E03-1, [redacted]	56-22-28N 38-11-26E	UR 0154-22	SA-1, herringbone				
27	Moscow SAM Site E04-1, [redacted]	56-20-07N 38-28-20E	UR 0154-22	SA-1, herringbone				
28	Moscow SAM Site E05-1, [redacted]	56-14-35N 38-35-05E	UR 0154-22	SA-1, herringbone				This is 1 of the 4 SA-1 sites at Moscow which shows possible AMM associated activity.
29	Moscow SAM Site E06-1, [redacted]	56-07-17N 38-48-14E	UR 0154-22	SA-1, herringbone				
30	Moscow SAM Site E07-1, [redacted]	56-01-07N 38-50-56E	UR 0154-22	SA-1, herringbone				
31	Moscow SAM Site C31-1, [redacted]	56-02-37N 37-00-38E	UR 0154-22	SA-1, herringbone				
32	Moscow SAM Site C32-1, [redacted]	56-07-44N 37-11-40E	UR 0157-22	SA-1, herringbone				
33	Moscow SAM Site C35-1, [redacted]	56-09-35N 37-23-13E	UR 0154-22	SA-1, herringbone				
34	Moscow SAM Storage Site 7, [redacted]	56-07-00N 37-29-00E	UR 0154-22	Missile assembly and storage plant			This is 1 of the 7 such facilities deployed around Moscow. It was formerly named Chernaya SAM storage site.	
35	Moscow SAM Site C36-1, [redacted]	56-12-37N 37-36-13E	UR 0154-22	SA-1, herringbone			This site has a secured storage/support facility located in conjunction with it which consists of 9 large buildings.	
36	Moscow SAM Site C02-1, [redacted]	56-10-00N 37-49-16E	UR 0154-22	SA-1, herringbone			The launch revetments of this site are square, a departure from the normal configuration associated with the SA-2 system. The launch revetments of this site are square, a departure from the normal configuration associated with the SA-2 system.	
37	Moscow SAM Site C04-1, [redacted]	56-06-14N 38-00-46E	UR 0154-22	SA-1, herringbone				
38	Moscow SAM Site C05-1, [redacted]	56-01-08N 38-10-58E	UR 0154-22	SA-1, herringbone				
71	Moscow SAM Site E31-3, [redacted]	56-05-40N 36-31-50E	UR 0154-22	SA-3, configuration G				
72	Moscow SAM Site C34-2, [redacted]	56-06-10N 37-20-35E	UR 0154-22	SA-2, configuration undetermined				
73	Moscow SAM Site C03-2, [redacted]	56-07-25N 37-53-20E	UR 0154-22	SA-2, configuration undetermined				
74	Moscow SAM Site E36-3, [redacted]	56-29-10N 37-26-20E	UR 0154-22	SA-3, configuration F				
75	Moscow SAM Site E01-3, [redacted]	56-29-10N 37-42-40E	UR 0154-22	SA-3, probable configuration F				
76	Moscow SAM Site E02-3, [redacted]	56-28-00N 37-56-20E	UR 0154-22	SA-3, configuration F				
77	Moscow SAM Site E03-3, [redacted]	56-28-00N 37-56-20E	UR 0154-22	SA-3, configuration F				
G Teukovo ICBM Complex SAM Defenses (in defense of Teukovo ICBM Complex)								
39	Teukovo ICBM Complex SAM Site B29-2, [redacted]	57-00-30N 39-57-20E	UR 0154-19	SA-2, link			[redacted]	
40	Ivanovo SAM Site B30-2, [redacted]	57-09-15N 40-26-25E	UR 0154-19	SA-2, link				
41	Ivanovo SAM Site C29-2, [redacted]	56-45-55N 40-25-00E	UR 0154-24	SA-2, link				
42	Ivanovo SAM Support Facility, [redacted]	57-01-00N 40-50-40E	UR 0154-19	Type II (square)				
43	Ivanovo SAM Site A29-2, [redacted]	57-01-00N 40-58-10E	UR 0154-19	SA-2, link				
H Yaroslavl SAM Defenses (in defense of Yaroslavl-obl原因: motor vehicle plant-YaAZ, rubber and asbestos combine, POL refineries, and ammunition plant)								
44	Yaroslavl SAM Site B21-2, [redacted]	57-23-10N 39-42-10E	UR 0154-19	SA-2, link			[redacted]	
45	Yaroslavl SAM Site B10-2, [redacted]	57-33-40N 40-14-45E	UR 0154-19	SA-2, link				
46	Yaroslavl SAM Support Facility, [redacted]	57-33-05N 39-50-15E	UR 0154-19	Type I (rectangular)				
47	Yaroslavl SAM Site B80-2, [redacted]	57-40-47N 39-33-38E	UR 0154-13	SA-2, link				
48	Yaroslavl SAM Site B02-2, [redacted]	57-47-45N 39-57-30E	UR 0154-14	SA-2, link				
49	Yaroslavl SAM Site B03-2, [redacted]	57-47-45N 39-57-30E	UR 0154-14	SA-2, link				

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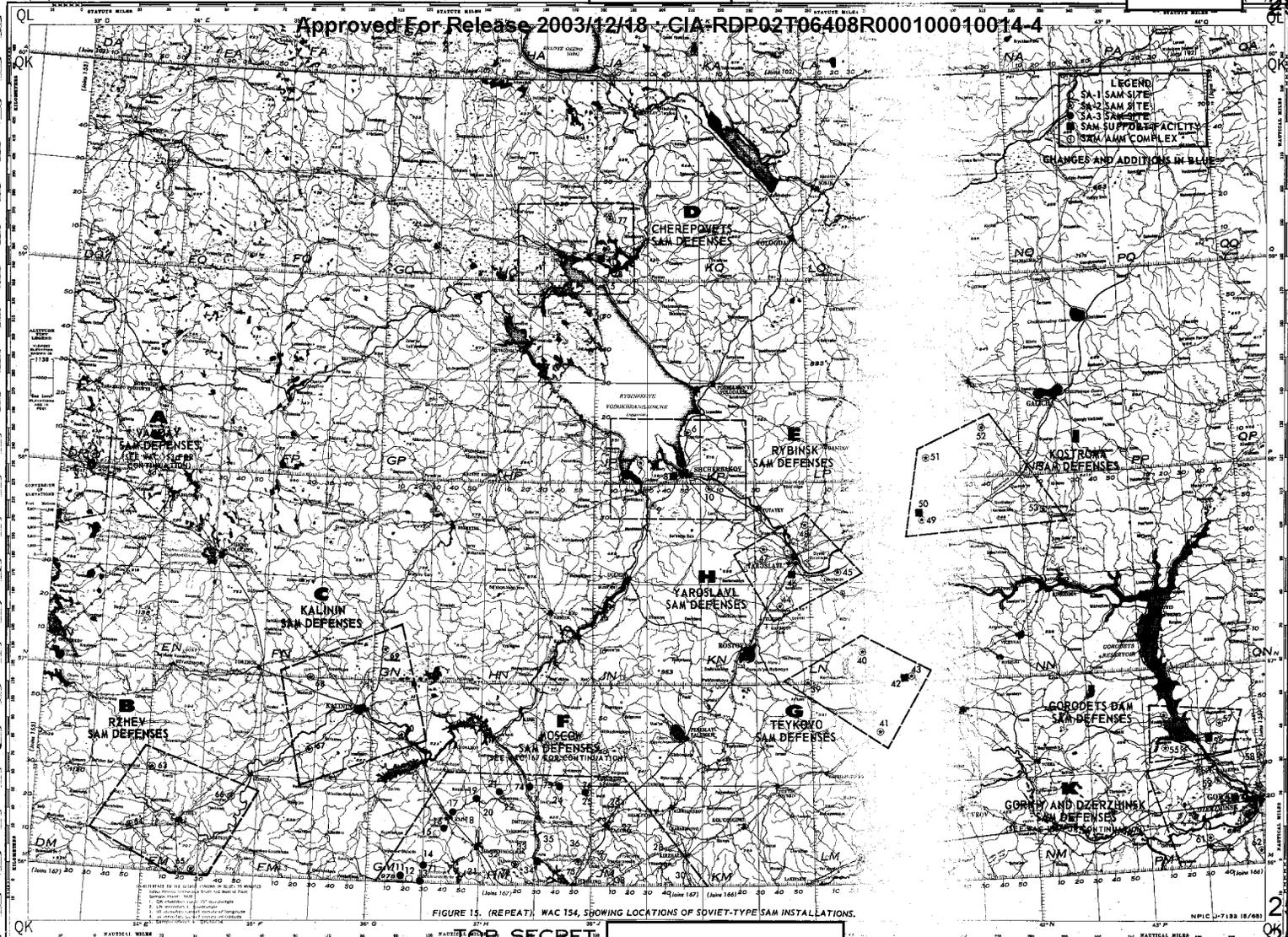


FIGURE 15. (REPEAT), WAC 154, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 12. SAM Installations on WAC 164 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated ‡	Remarks
■ Kostroma ICBM Complex SAM Defenses (in defense of Kostroma ICBM Complex)							
49	Kostroma ICBM Complex SAM Site B21-2, [redacted]	57-48-35N 41-08-05E	UR 0154-14	SA-2, link			[redacted]
50	Kostroma SAM Support Facility, [redacted]	57-49-00N 41-02-30E	UR 0154-14	Type II (square)			
51	Kostroma ICBM Complex SAM Site A32-2, [redacted]	58-06-30N 41-05-30E	UR 0154-14	SA-2, link			
52	Kostroma ICBM Complex SAM Site B05-2, [redacted]	58-14-10N 41-38-35E	UR 0154-14	SA-2, link			
53	Kineshma SAM Site C01-2, [redacted]	57-49-30N 42-11-40E	UR 0154-15	SA-2, link			
■ Gorodets Dam SAM Defenses (in defense of Gorodets dam and hydroelectric power plant)							
54	Gorkiy SAM Site D32-2, [redacted]	56-46-00N 43-09-00E	UR 0154-25	SA-2, link			[redacted]
55	Gorkiy SAM Site D31-2, [redacted]	56-35-00N 43-09-20E	UR 0154-25	SA-2, link			
56	Gorkiy SAM Support Facility 2, [redacted]	56-38-30N 43-32-00E	UR 0154-25	Type I (rectangular)			
57	Gorkiy SAM Site C35-2, [redacted]	56-42-00N 43-39-30E	UR 0154-25	SA-2, link			
■ Gorkiy and Dzerzhinsk SAM Defenses (in defense of Gorkiy and Dzerzhinsk area—largest chemical center in USSR: motor vehicle plant-Gaz, POL refineries, jet aircraft plants, heavy equipment, armaments, and steel production)							
58	Gorkiy SAM Site B01-2, [redacted]	56-31-40N 44-00-00E	UR 0154-25	SA-2, link			[redacted]
59	Gorkiy SAM Site B31-2, [redacted]	56-25-30N 43-36-30E	UR 0154-25	SA-2, link			
60	Gorkiy SAM Support Facility 1, [redacted]	56-19-00N 43-44-00E	UR 0154-25	Type I (rectangular)			
61	Gorkiy SAM Site B24-2, [redacted]	56-08-30N 43-30-45E	UR 0154-25	SA-2, link			
62	Gorkiy SAM Site B18-2, [redacted]	56-03-45N 43-37-45E	UR 0154-25	SA-2, link			

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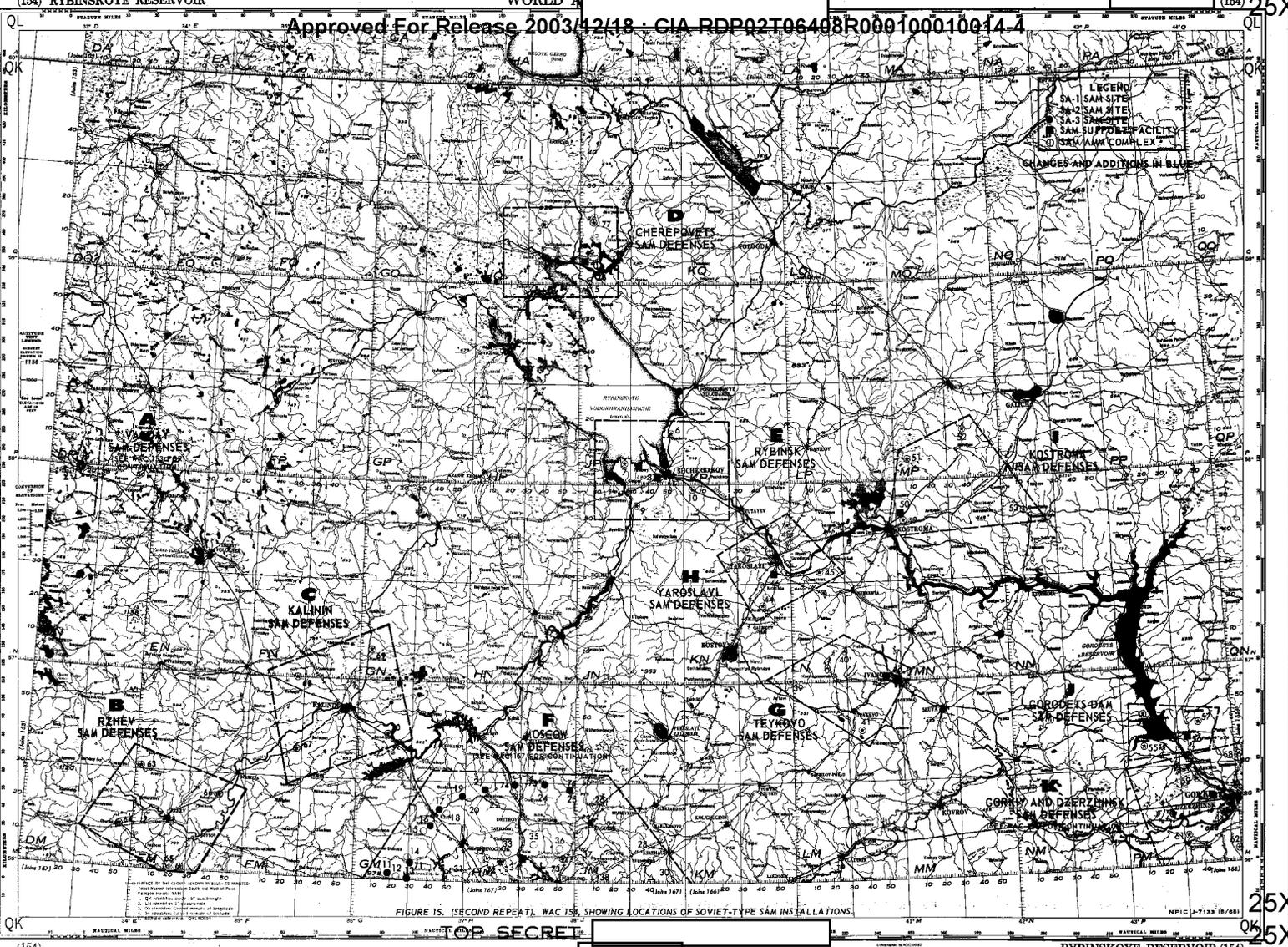


FIGURE 15. (SECOND REPEAT). WAC 15K, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 13. SAM Installations on WAC 155

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated ‡	Remarks
A Gorkiy and Dzerzhinsk SAM Defenses (in defense of Gorkiy and Dzerzhinsk area--largest chemical center in USSR: motor vehicle plant-Gaz, POL refineries, jet aircraft plants, heavy equipment, armaments, and steel production)							
1	Gorkiy SAM Site B11-2, [redacted]	56-16-15N 44-18-10E	UR 0155-21	SA-2, link			
B Yoshkar-Ola ICBM Complex SAM Defenses (in defense of Yoshkar-Ola ICBM Complex)							
2	Yoshkar-Ola ICBM Complex SAM Site C13-2, [redacted]	56-24-50N 48-46-40E	UR 0155-23	SA-2, link			
3	Yoshkar-Ola ICBM Complex SAM Site B18-0, [redacted]	56-23-00N 48-14-00E	UR 0155-22	SA-0, category I			
4	Yoshkar-Ola ICBM Complex SAM Site B27-2, [redacted]	56-33-00N 47-50-00E	UR 0155-22	SA-2, link			
5	Yoshkar-Ola ICBM Complex SAM Support Facility, [redacted]	56-39-40N 47-59-10E	UR 0155-22	Type II (square)			
6	Yoshkar-Ola ICBM Complex SAM Site B35-0, [redacted]	56-44-20N 48-06-00E	UR 0155-22	SA-0, category I			
7	Yoshkar-Ola ICBM Complex SAM Site C08-2, [redacted]	56-46-10N 48-36-00E	UR 0155-23	SA-2, star			
8	Yoshkar-Ola ICBM Complex SAM Site D06-2, [redacted]	56-55-10N 49-14-26E	UR 0155-18	SA-2, link			This site is slightly removed from ICBM launch complex, and may represent the first indication of a barrier defense stretching between Yoshkar-Ola and Kirov. This facility was not associated with surface-to-air missiles until [redacted] photography from [redacted]. On this high-resolution photography, SAM equipment could be identified within the area.
29	Surok SAM Assembly and Storage Area, [redacted]	56-28-00N 48-09-00E	UR 0155-22	Missile assembly and storage facility			
C Kazan SAM Defenses (in defense of Kazan: aircraft parts, engines, and airframes; optical equipment, explosives, synthetic rubber, and chemical production)							
9	Kazan SAM Site B01-2, [redacted]	56-03-45N 49-11-30E	UR 0155-23	SA-2, star			
D Yurya ICBM Complex/Kirov SAM Defenses (in defense of Yurya ICBM Complex and Kirov: tire, railroad crane, aircraft parts, and agricultural equipment production; and metallurgical plants)							
10	Yurya ICBM Complex SAM Site B28-2, [redacted]	59-15-00N 48-58-00E	UR 0155-3	SA-2, link			
11	Yurya ICBM Complex SAM Site B04-2, [redacted]	59-20-00N 49-45-00E	UR 0155-3	SA-2, star			
12	Yurya ICBM Complex SAM Support Facility, [redacted]	59-10-10N 49-25-00E	UR 0155-6	Type II (square)			
13	Yurya ICBM Complex SAM Site B23-2, [redacted]	59-55-30N 49-03-55E	UR 0155-8	SA-2, star			
14	Yurya ICBM Complex SAM Site B12-2, [redacted]	59-05-55N 49-56-40E	UR 0155-8	SA-2, star			
15	Kirov SAM Support Facility, [redacted]	58-32-20N 49-35-00E	UR 0155-8	Type II (square)			
16	Kirov SAM Site B17-2, [redacted]	58-21-15N 49-46-55E	UR 0155-13	SA-2, star			
17	Kirov SAM Site C07-2, [redacted]	58-46-50N 50-24-00E	UR 0155-8	SA-2, star			
E Kirov to Glazov SAM Defenses (probable beginning of a barrier defense between Kirov and Glazov)							
18	Kirov SAM Site D12-2, [redacted]	58-24-20N 50-38-50E	UR 0155-9	SA-2, star			
F Glazov SAM Defenses (in defense of second largest Soviet atomic energy fuel materials plant)							
19	Glazov SAM Site B28-2, [redacted]	58-10-10N 52-10-40E	UR 0155-14	SA-2, star			This site, carried by NPIC as a category I SA-0, does not display the configuration of a category I SA-0, but of a star configuration SA-2 SAM site.
20	Glazov SAM Site B01-2, [redacted]	58-18-30N 52-43-15E	UR 0155-14	SA-2, star			
21	Glazov SAM Support Facility, [redacted]	58-06-25N 52-40-35E	UR 0155-14	Type I (rectangular)			
22	Glazov SAM Site A09-2, [redacted]	58-09-05N 53-00-00E	UR 0155-15	SA-2, star			
G Glazov to Perm SAM Defenses (barrier defense between Glazov and Perm)							
23	Glazov SAM Site D10-2, [redacted]	58-02-30N 53-47-50E	UR 0155-15	SA-2, link			
24	Vereshchagino SAM Site A25-2, [redacted]	58-03-30N 54-34-30E	UR 0155-15	SA-2, link			
H Izhevsk SAM Defenses (in defense of large arms and machine equipment plant)							
25	Izhevsk SAM Site B01-2, [redacted]	57-04-31N 53-13-02E	UR 0155-20	SA-2, unrevetted			
26	Izhevsk SAM Site B36-2, [redacted]	57-02-10N 53-09-02E	UR 0155-20	SA-2, link			
27	Izhevsk SAM Site A30-2, [redacted]	56-54-50N 52-57-00E	UR 0155-20	SA-2, link			
28	Izhevsk SAM Support Facility, [redacted]	56-45-42N 53-23-15E	UR 0155-20	Type I (rectangular)			No service road pattern is visible at this site.

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Table 14. SAM Installations on WAC 156

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
Note - Installations whose defensive role cannot be determined and which are not located within the limits of a SAM defense area are found under subheading J-"Defensive Role Undetermined".							
A Berezniki SAM Defenses (in defense of Berezniki: large synthetic-ammonia, magnesium, and basic chemical plants)							
1	Berezniki SAM Site B03-2, [redacted]	59-41-50N 57-00-55E	UR 0156-1	SA-2, link			
2	Berezniki SAM Support Facility, [redacted]	59-23-05N 56-52-00E	UR 0156-1	Type II (square)			
3	Berezniki SAM Site A19-2, [redacted]	59-14-55N 56-44-15E	UR 0156-1	SA-2, link			
B Perm to Glazov SAM Defenses (barrier defense between Perm and Glazov)							
4	Perm SAM Site D27-2, [redacted]	58-00-00N 55-15-00E	UR 0156-11	SA-2, star			
C Perm SAM Defenses (in defense of Perm ICBM Complex and Perm: armaments and munitions combine, aircraft engine and assembly plants, chemical production, and missile static test facilities)							
5	Perm SAM Site B32-2, [redacted]	58-11-30N 56-01-50E	UR 0156-11	SA-2, link			
6	Perm SAM Site B01-2, [redacted]	58-18-50N 56-21-50E	UR 0156-11	SA-2, link			
7	Perm SAM Support Facility, [redacted]	58-02-00N 56-23-00E	UR 0156-11	Type I (rectangular)			
8	Perm SAM Site B10-2, [redacted]	58-01-00N 56-44-30E	UR 0156-11	SA-2, star			
D Perm to Nizhny Tagil SAM Defenses (barrier defense between Perm and Nizhny Tagil)							
9	Lysva SAM Site A25-2, [redacted]	58-02-00N 57-31-40E	UR 0156-12	SA-2, probable link			
10	Nizhny Tagil SAM Site D28-2, [redacted]	57-57-45N 58-59-30E	UR 0156-12	SA-2, probable star			
11	Nizhny Tagil SAM Site B27-2, [redacted]	57-52-45N 58-33-15E	UR 0156-13	SA-2, star			
E Nizhnyaya Tura AE Complex SAM Defenses (in defense of Nizhnyaya Tura AE Complex: [redacted])							
12	Nizhnyaya Tura SAM Site B36-2, [redacted]	58-48-00N 59-47-00E	UR 0156-8	SA-2, star			
13	Nizhnyaya Tura SAM Site B28-2, [redacted]	58-38-00N 59-29-00E	UR 0156-8	SA-2, link			
14	Nizhnyaya Tura SAM Support Facility, [redacted]	58-40-25N 59-33-20E	UR 0156-8	Type I (rectangular)			
15	Nizhnyaya Tura SAM Site B08-2, [redacted]	58-40-00N 60-09-00E	UR 0156-8	SA-2, star			
16	Nizhnyaya Tura SAM Site B21-2, [redacted]	58-27-40N 59-39-40E	UR 0156-8	SA-2, star			
F Nizhny Tagil/Verkhnyaya Salda ICBM Complex SAM Defenses (in defense of Verkhnyaya Salda ICBM Complex and Nizhnyaya Salda steel plant; railroad freight car, armored combat vehicles, ingot steel, pig iron, and coke production at Nizhny Tagil; and Verkhnyaya Salda aircraft parts plant)							
17	Verkhnyaya Salda ICBM Complex SAM Site D03-2, [redacted]	58-43-15N 61-08-35E	UR 0156-8	SA-2, star			
18	Verkhnyaya Salda ICBM Complex SAM Site B33-2, [redacted]	58-20-50N 60-15-20E	UR 0156-13	SA-2, star			
19	Nizhny Tagil SAM Site B36-2, [redacted]	58-05-45N 59-55-15E	UR 0156-13	SA-2, star			
20	Nizhny Tagil SAM Support Facility, [redacted]	57-52-05N 60-02-40E	UR 0156-13	Type I (rectangular)			
21	Nizhny Tagil SAM Site C13-2, [redacted]	57-43-10N 60-31-30E	UR 0156-13	SA-2, star			
22	Verkhnyaya Salda ICBM Complex SAM Site B12-2, [redacted]	58-04-20N 61-01-20E	UR 0156-13	SA-2, star			
G Sverdlovsk/Verkh-Neyvinskiy SAM Defenses (in defense of [redacted] Sverdlovsk heavy equipment, armaments, turbines, radio and television, [redacted])							
23	Verkh-Neyvinskiy SAM Site B24-2, [redacted]	57-08-45N 59-48-55E	UR 0156-18	SA-2, link			
24	Verkh-Neyvinskiy SAM Site A32-2, [redacted]	57-21-30N 58-54-55E	UR 0156-18	SA-2, link			
25	Verkh-Neyvinskiy SAM Support Facility, [redacted]	57-16-50N 60-04-00E	UR 0156-18	Type I (rectangular)			
26	Verkh-Neyvinskiy SAM Site B04-2, [redacted]	57-26-25N 60-20-05E	UR 0156-18	SA-2, link			
27	Verkh-Neyvinskiy SAM Site B09-2, [redacted]	57-15-30N 60-41-15E	UR 0156-18	SA-2, link			
28	Sverdlovsk SAM Site B05-2, [redacted]	57-01-15N 60-23-40E	UR 0156-18	SA-2, link			
29	Sverdlovsk SAM Site A01-2, [redacted]	56-57-20N 60-28-30E	UR 0156-18	SA-2, star			
30	Sverdlovsk SAM Support Facility, [redacted]	56-52-45N 60-49-15E	UR 0156-18	Type I (rectangular)			
31	Sverdlovsk SAM Site B13-2, [redacted]	56-43-40N 60-57-05E	UR 0156-23	SA-2, link			
32	Sverdlovsk SAM Site B22-2, [redacted]	56-41-00N 60-29-15E	UR 0156-23	SA-2, link			
33	Sverdlovsk SAM Site B28-2, [redacted]	56-51-55N 60-14-40E	UR 0156-18	SA-2, link			
42	Sverdlovsk SAM Site B05A-2, [redacted]	56-59-15N 60-51-30E	UR 0156-18	SA-2, link			

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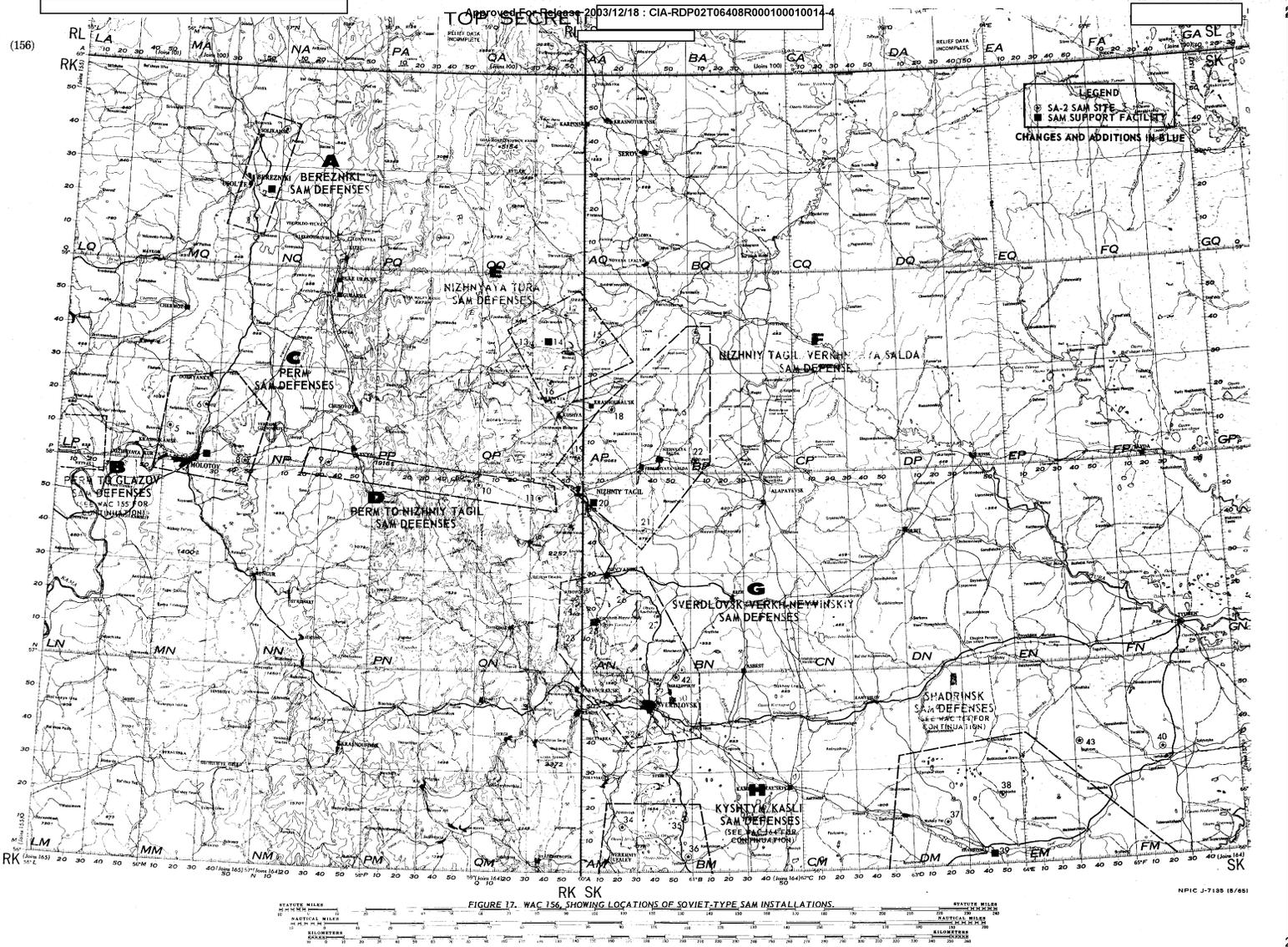


FIGURE 17. WAC 156, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 14. SAM Installations on WAC 158 (Continued)

Item	Name, Site-Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
■ Kyshtym/Kasli SAM Defenses (in defense of Kasli Atomic Energy Research Institute and Kyshtym Atomic Energy Complex: plutonium production)							
34	Sverdlovsk SAM Site D20-2, [redacted]	56-14-45N 60-20-00E	UR 0156-23	SA-2, star			This site is under construction and has not yet assumed a configuration.
35	Sverdlovsk SAM Site D17-2, [redacted]	56-16-50N 60-54-30E	UR 0156-23	SA-2, link			
36	Kasli SAM Site B08-2, [redacted]	56-05-05N 60-56-30E	UR 0156-23	SA-2, configuration undetermined			
■ Shadrinsk ICBM Complex SAM Defenses (in defense of Shadrinsk ICBM Complex)							
37	Shadrinsk SAM Site B31-2, [redacted]	56-13-00N 63-17-00E	UR 0156-24	SA-2, link			This is the only site identified thus far in the vicinity of the Tyumen ICBM Complex. It probably represents the beginning of a defensive pattern which will surround the ICBM complex.
38	Shadrinsk SAM Site B02-2, [redacted]	56-21-16N 63-47-15E	UR 0156-24	SA-2, link			
39	Shadrinsk SAM Support Facility, [redacted]	56-03-05N 63-41-50E	UR 0156-25	Type II (square)			
■ Defensive Role Undetermined							
40	Tyumen ICBM Complex SAM Site C22-2, [redacted]	56-32-00N 65-16-30E	UR 0156-25	SA-2, link			Large missile assembly and storage facility is similar to those near Moscow and Zhitomir. It probably provides support for the entire central Urals area, rather than for any one defense complex.
41	Sverdlovsk SAM Storage Site 2, [redacted]	56-50-00N 59-25-00E	UR 0156-18	Missile assembly & storage facility			
43	Shatrovo SAM Site A32-2, [redacted]	56-36-30N 64-31-00E	UR 0156-25	SA-2, star			

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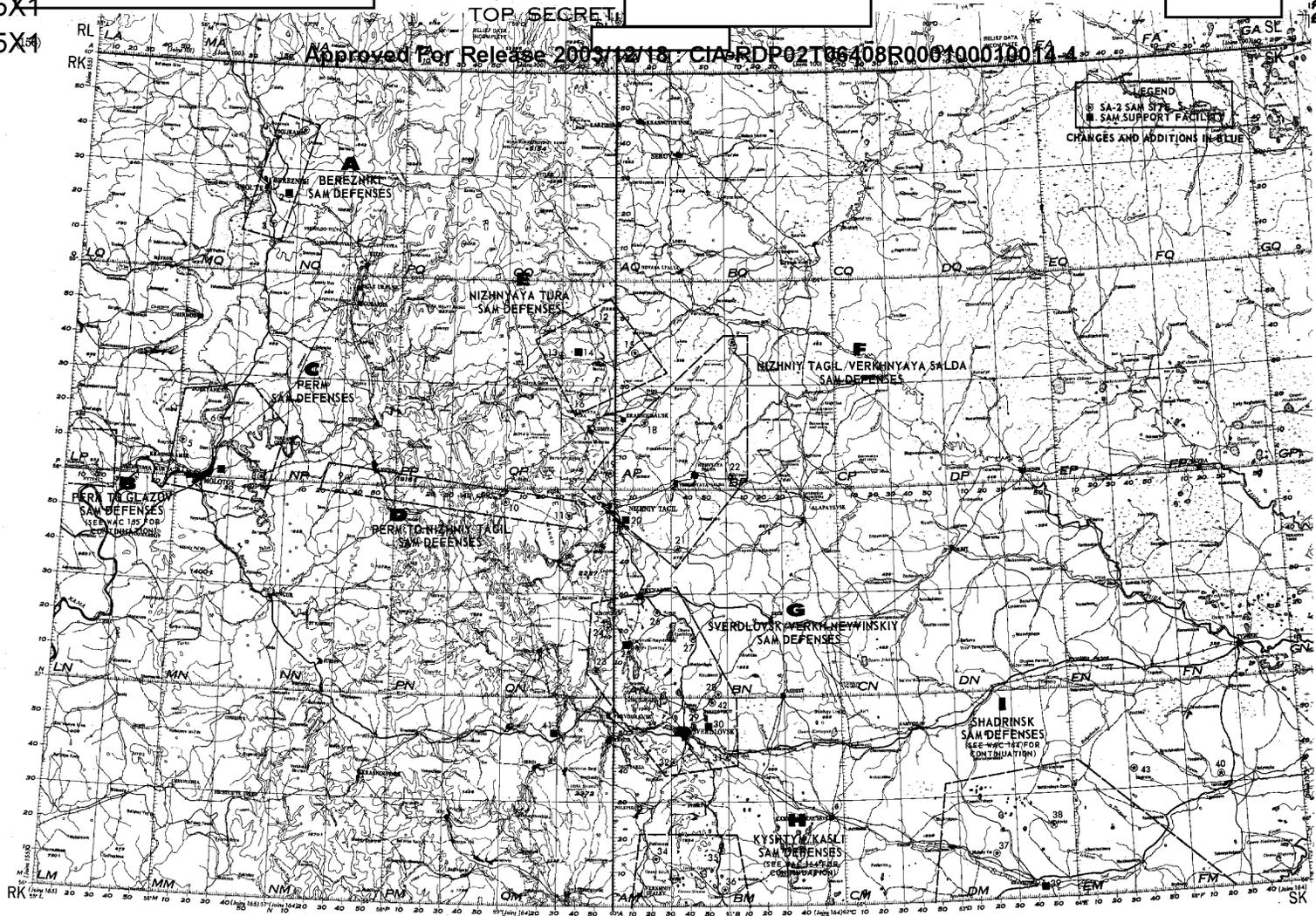


FIGURE 17. (REPEAT), WAC 156, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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MT. KONZHAKOVSKIY (156)

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Table 15. SAM Installations on WAC 168

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negotiated	Remarks
▲ Tomak SAM Defenses (in defense of Tomak Atomic Energy Complex, and Bearing Plant 5)							
	Tomak SAM Site B09-8	55-02-30N 84-37-80E	UR 0158-84	SA-2, probable star			
	Tomak SAM Site B33-2	55-41-10N 84-44-05E	UR 0158-84	SA-2, link			
	Tomak SAM Site B02-2	55-45-08N 85-05-05E	UR 0158-84	SA-2, link			
	Tomak SAM Site A02-2	55-59-30N 85-00-80E	UR 0158-84	SA-2, link			
	Tomak SAM Support Facility	55-55-00N 84-55-30E	UR 0158-84	Type I (rectangular)			

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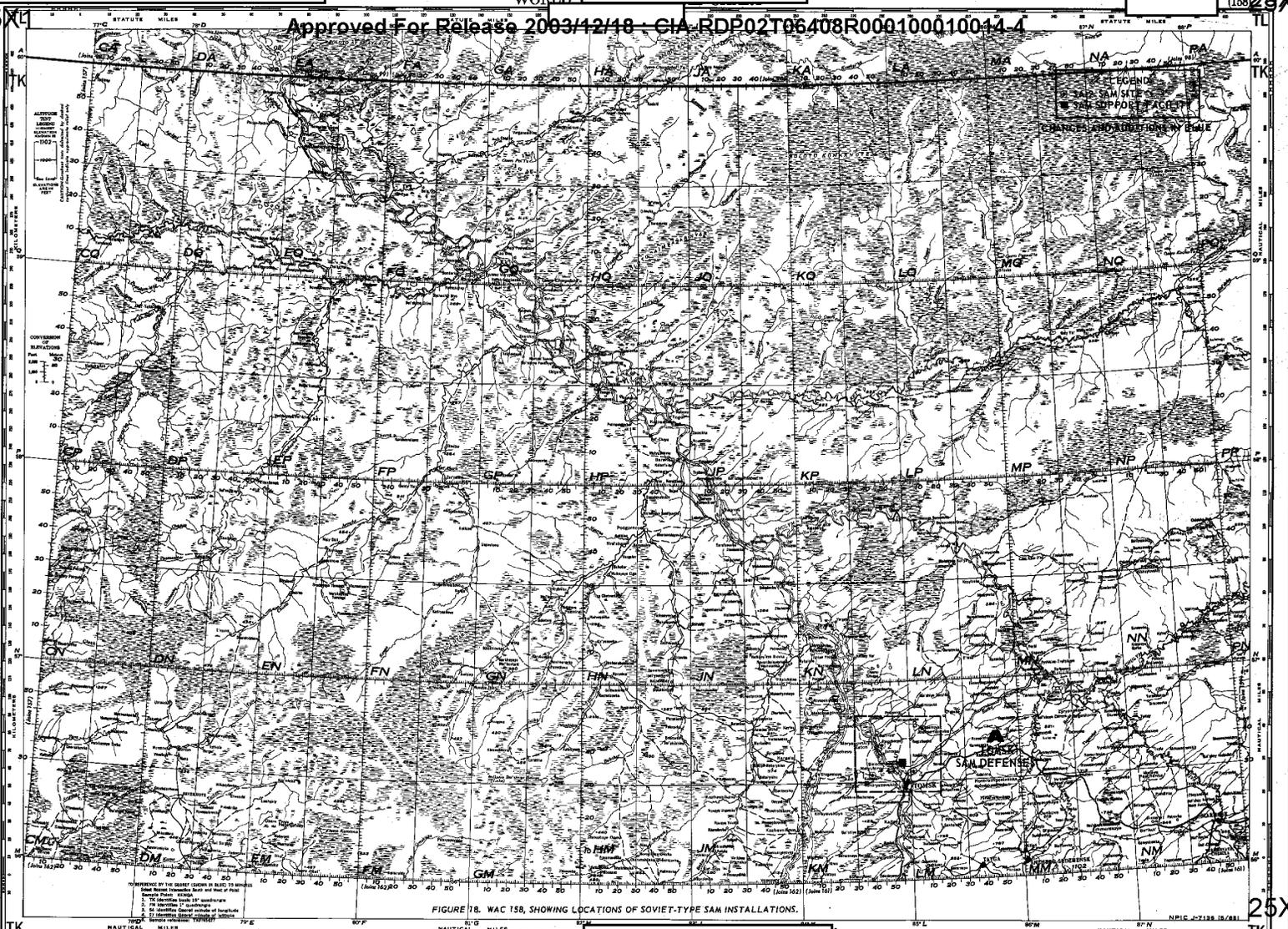


FIGURE 18. WAC 158, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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CHULYM RIVER (158)

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Table 16. SAM Installations on WAC 159

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
A Nazarovo SAM Defenses (in defense of Nazarovo Thermal Power Plant GRES)							
1	Nazarovo SAM Support Facility, [redacted]	56-11-15N 90-25-30E	UR 0159-22	Type II (square)	[redacted]		
2	Nazarovo SAM Site B04-2, [redacted]	56-10-10N 90-39-30E	UR 0159-22	SA-2, link	[redacted]		
B Krasnoyarsk/Dodonovo SAM Defenses (in defense of Dodonovo Atomic Energy Complex, [redacted] synthetic rubber, steel, heavy equipment, chemical, and explosives production at Krasnoyarsk; and missile static test facility at Krasnoyarsk)							
3	Gladkaya ICBM Complex SAM Site B17-2, [redacted]	56-09-55N 92-34-50E	UR 0159-23	SA-2, link	[redacted]		
4	Krasnoyarsk SAM Support Facility 2, [redacted]	56-10-40N 92-58-30E	UR 0159-23	Type II (square)	[redacted]		
5	Krasnoyarsk SAM Support Facility 1, [redacted]	56-09-00N 93-21-30E	UR 0159-23	Type I (rectangular)	[redacted]		
6	Krasnoyarsk SAM Site C08-2, [redacted]	56-09-45N 93-32-15E	UR 0159-23	SA-2, link	[redacted]		
7	Krasnoyarsk SAM Site B02-2, [redacted]	56-18-30N 92-39-30E	UR 0159-23	SA-2, link	[redacted]		
8	Krasnoyarsk SAM Site D03-2, [redacted]	56-30-45N 93-21-50E	UR 0159-23	SA-2, link	[redacted]		
9	Krasnoyarsk SAM Site D06-2, [redacted]	56-20-00N 93-46-30E	UR 0159-23	SA-2, link	[redacted]		

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LEGEND
 ○ SA-2 SAM SITE
 ■ SAM SUPPORT FACILITY

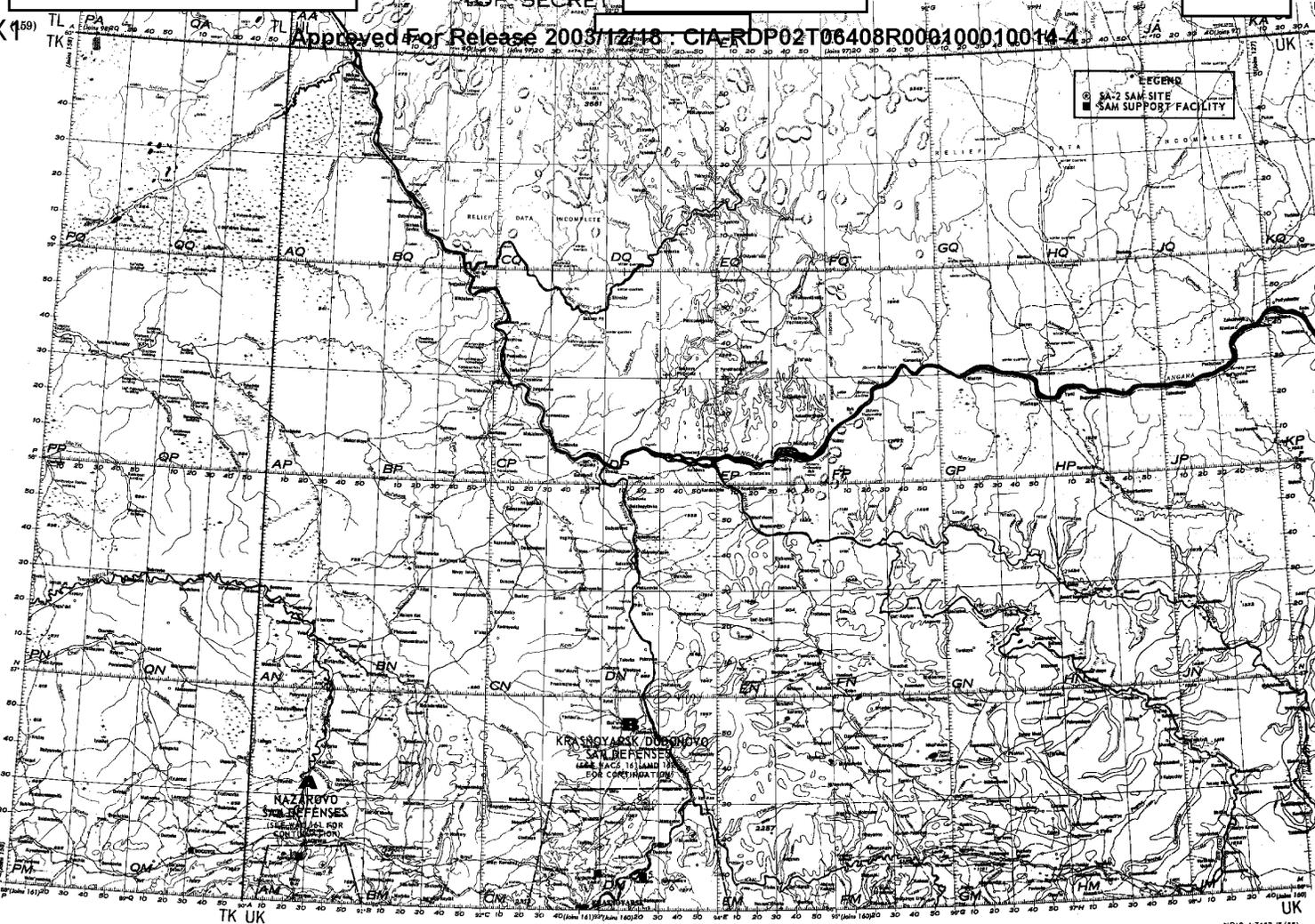


FIGURE 19. WAC 159, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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ANGARA RIVER (159)

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Table 17. SAM Installations on WAC 160

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated†	Remarks
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▲ Krasnoyarsk/Dodonovo SAM Defenses [redacted] arms, synthetic rubber, steel, heavy equipment, [redacted] and explosives production at Krasnoyarsk; missile static test facility at Krasnoyarsk)

1	Krasnoyarsk SAM Site B13-2, [redacted]	55-50-20N 93-15-00E	UR 0160-1	SA-2, link	[redacted]		
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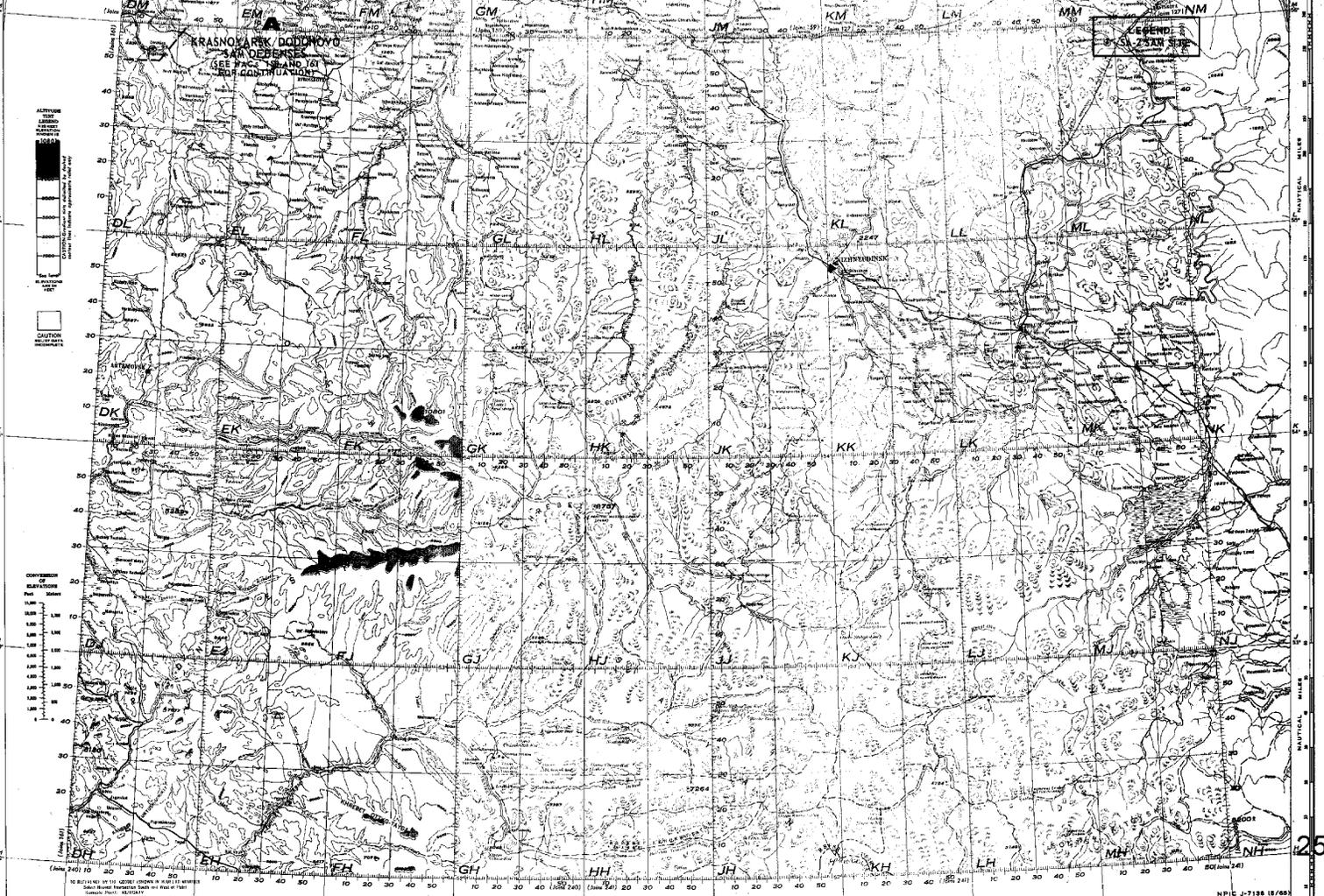
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(160) MUSTAG PASS

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MONGOLIA-CHINA

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Table 18. SAM Installations on WAC 161

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated‡	Remarks
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Note - Installations whose defensive role cannot be determined and which are not located within the limits of a SAM defense area are found under subheading G- "Defensive Role Undetermined".

A Barnaul SAM Defenses (in defense of major industrial center: heavy machinery, equipment, and machine parts production, railroad car manufacturing and repair)

1 Barnaul SAM Site B11-2, [redacted] 53-18-20N 84-07-56E UR 0161-16 SA-2, link [redacted]

B Kemerovo SAM Defenses (in defense of important coal and chemical production in Kuznetsk Basin: coke, nitro, and ammunition plants)

2 Kemerovo SAM Site B32-2, [redacted] 55-31-04N 85-43-20E UR 0161-1 SA-2, link [redacted]

3 Kemerovo SAM Site B03-2, [redacted] 55-33-10N 86-14-00E UR 0161-2 SA-2, probable link [redacted]

4 Kemerovo SAM Support Facility, [redacted] 55-17-40N 86-03-00E UR 0161-2 Type II (square) [redacted]

5 Kemerovo SAM Site B15-2, [redacted] 55-13-29N 86-12-35E UR 0161-2 SA-2, link [redacted]

C Belovo SAM Defenses (in defense of Belovo town complex, the strategic significance of which is presently unknown)

14 Belovo SAM Site A23-2, [redacted] 54-20-30N 86-10-05E UR 0161-12 SA-2, configuration undetermined [redacted]

15 Belovo SAM Site A11-2, [redacted] 54-23-00N 86-34-20E UR 0161-12 SA-2, configuration undetermined [redacted]

D Novokuznetsk SAM Defenses (in defense of second largest metallurgical center in USSR: ferroalloy, steel, coke, aluminum, steel products production)

6 Novokuznetsk SAM Site B34-2, [redacted] 53-59-00N 86-58-00E UR 0161-12 SA-2, link [redacted]

7 Novokuznetsk SAM Site B06-2, [redacted] 53-54-00N 87-32-40E UR 0161-12 SA-2, probable link [redacted]

8 Novokuznetsk SAM Support Facility, [redacted] 53-43-00N 87-00-00E UR 0161-12 Type II (square) [redacted]

9 Novokuznetsk SAM Site B27-2, [redacted] 53-43-00N 86-42-46E UR 0161-12 SA-2, link [redacted]

16 Novokuznetsk SAM Site B19-2, [redacted] 53-34-30N 87-07-00E UR 0161-17 SA-2, configuration undetermined [redacted]

E Nazarovo SAM Defenses (in defense of Nazarovo Thermal Power Plant GRES)

10 Nazarovo SAM Site B26-2, [redacted] 55-57-55N 90-01-50E UR 0161-4 SA-2, star [redacted]

11 Nazarovo SAM Site B16-2, [redacted] 55-52-00N 90-33-10E UR 0161-4 SA-2, probable link [redacted]

F Krasnoyarsk/Dodonovo SAM Defenses (in defense of Dodonovo Atomic Energy Complex and explosives production at Krasnoyarsk; missile static test facility at Krasnoyarsk) arms, synthetic rubber, steel, heavy equipment, chemical,

12 Krasnoyarsk SAM Site B25-2, [redacted] 55-54-40N 92-26-40E UR 0161-5 SA-2, link [redacted]

G Defensive Role Undetermined

13 Leningrad-Kuznetskiy SAM Site A07-0, [redacted] 54-20-05N 86-00-01E UR 0161-7 SA-2, configuration undetermined [redacted]

This site was unreacted when seen on Mission [redacted] It is not visible in second quality aerial [redacted] covered photography of [redacted] This site was no longer visible on [redacted] quality photography of [redacted]

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(161) ABAKANSKIY MOUNTAINS

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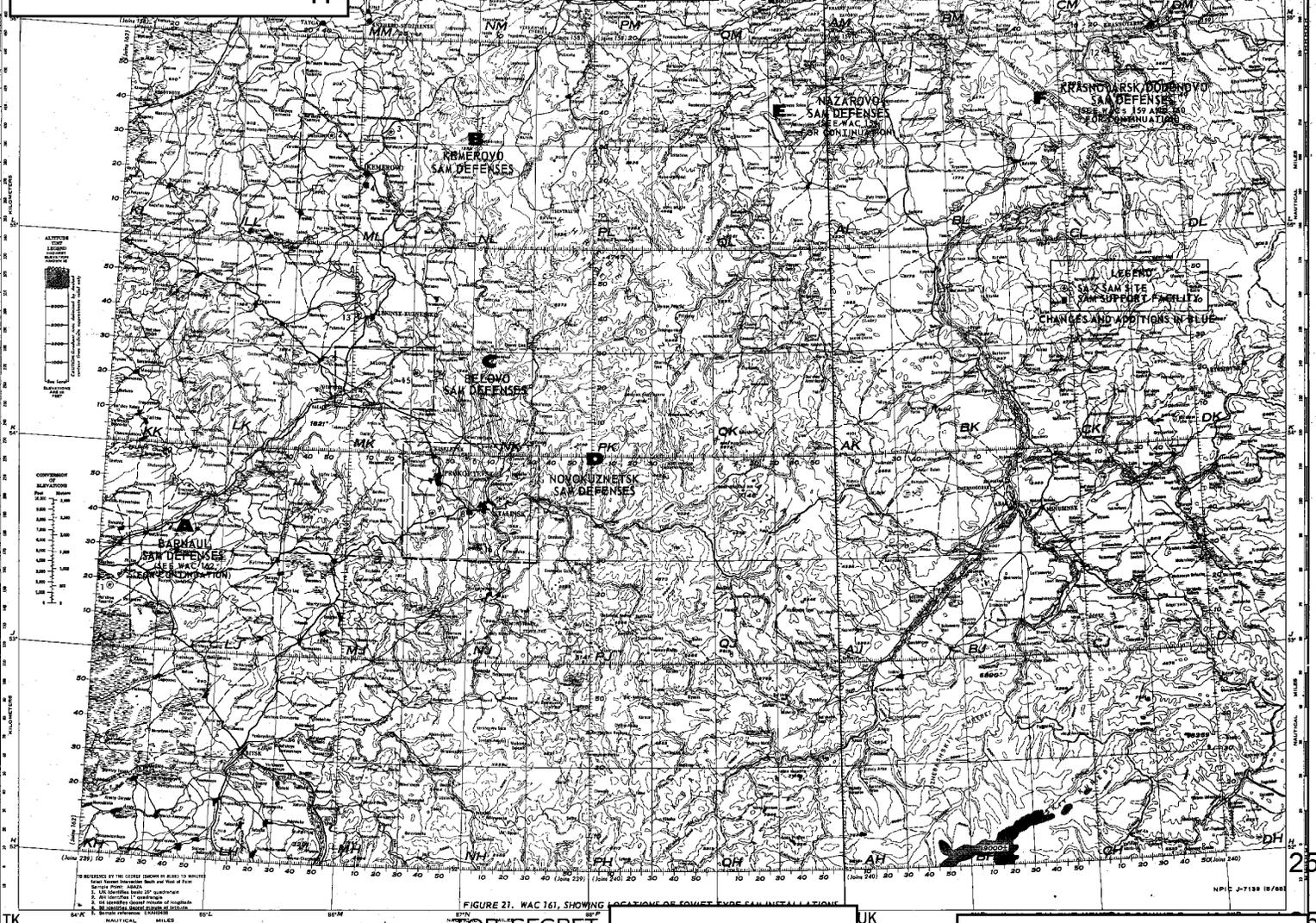


FIGURE 21. WAC 161, SHOWING LOCATIONS OF SHORT RANGE SAM INSTALLATIONS

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ABAKANSKIY MOUNTAINS (161)
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Table 19. SAM Installations on WAC 162

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated†	Remarks
A Novosibirsk SAM Defenses (in defense of major industrial, transportation, and communications center: arms, ammunition, steel, light metals, vehicle and aircraft assembly, machine tool and heavy equipment, uranium feed materials; ICBM launch complex)							
1	Novosibirsk SAM Site B01-2, [redacted]	55-16-30N 82-59-30E	UR 0162-10	SA-2, link	[redacted]		
2	Novosibirsk SAM Site B28-2, [redacted]	55-02-50N 82-37-07E	UR 0162-10	SA-2, link			
3	Novosibirsk SAM Support Facility, [redacted]	55-06-00N 82-50-55E	UR 0162-10	Type I (rectangular)			
4	Novosibirsk SAM Site A33-2, [redacted]	55-05-15N 82-51-20E	UR 0162-10	SA-2, probable fan			
5	Novosibirsk SAM Site B06-2, [redacted]	55-04-20N 83-16-10E	UR 0162-10	SA-2, link			
6	Novosibirsk SAM Site A17-2, [redacted]	54-54-15N 83-00-10E	UR 0162-10	SA-2, link			
B Barnaul SAM Defenses (in defense of major industrial center: heavy machinery, equipment, and machine parts production; railroad car manufacturing and repair)							
7	Barnaul SAM Site B28-2, [redacted]	53-21-00N 83-27-30E	UR 0162-20	SA-2, star	[redacted]		
8	Barnaul SAM Support Facility, [redacted]	53-18-50N 83-38-45E	UR 0162-20	Type II (square)			
9	Barnaul SAM Site B20A-2, [redacted]	53-11-10N 83-43-06E	UR 0162-20	SA-2, probable link			
10	Barnaul SAM Site B20-2, [redacted]	53-08-40N 83-41-05E	UR 0162-20	SA-2, star			

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25X1 (162) LAKE CHANY

(162) 25X1

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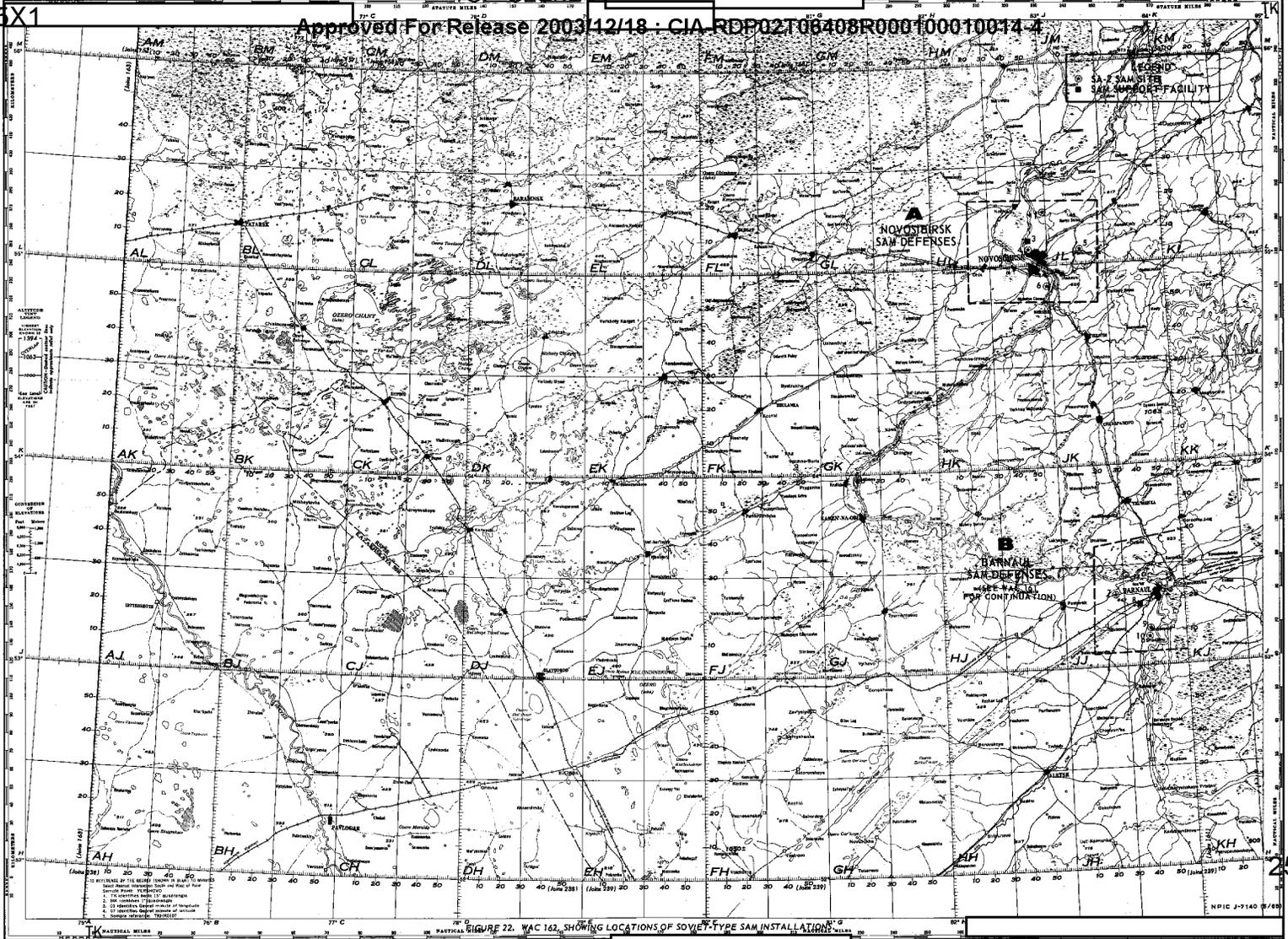


FIGURE 22. WAC 142, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS

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LAKE CHANY (162)

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Table 20. SAM Installations on WAC 163

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated†	Remarks
▲ Omsk SAM Defenses (in defense of major industrial and transportation center: aircraft engines, parts, airframe production; tires, armored vehicles and rubber production)							
1	Omsk SAM Site B34-2,	55-07-20N 73-17-10E	UR 0163-10	SA-2, link			
2	Omsk SAM Site B28-2,	54-55-10N 73-01-30E	UR 0163-9	SA-2, link			
3	Omsk SAM Site B17-2,	54-46-00N 73-28-20E	UR 0163-10	SA-2, link			
4	Omsk SAM Site A13-2,	54-54-10N 73-32-25E	UR 0163-10	SA-2, star			
5	Omsk SAM Support Facility,	54-59-45N 73-32-05E	UR 0163-10	Type 1 (rectangular)			
6	Omsk SAM Site B09-2,	54-59-35N 73-41-30E	UR 0163-10	SA-2, link			

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(163) LAKE TEKE

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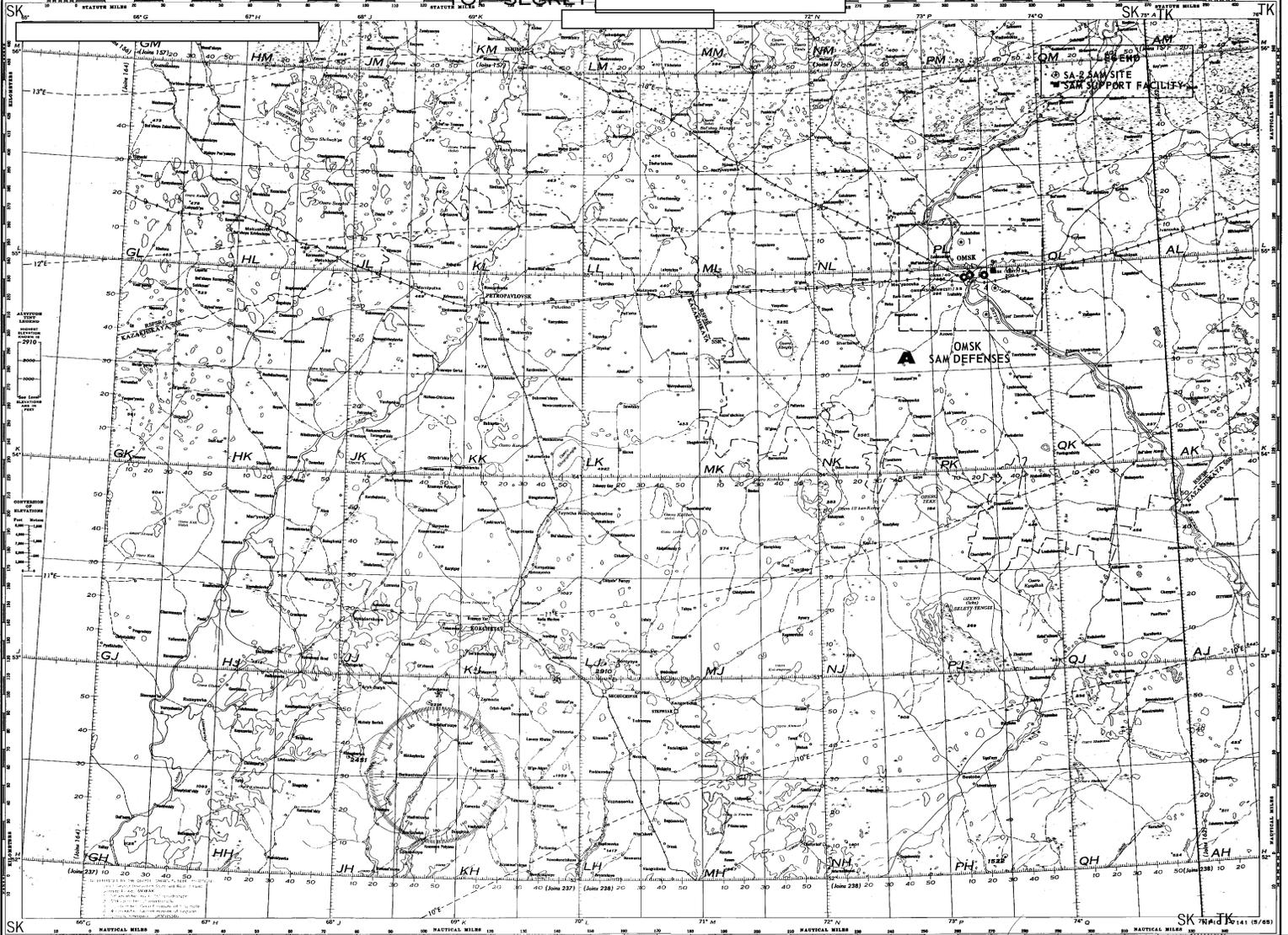


FIGURE 23. WAC 163, SHOWING

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Table 21. SAM Installations on WAC 164

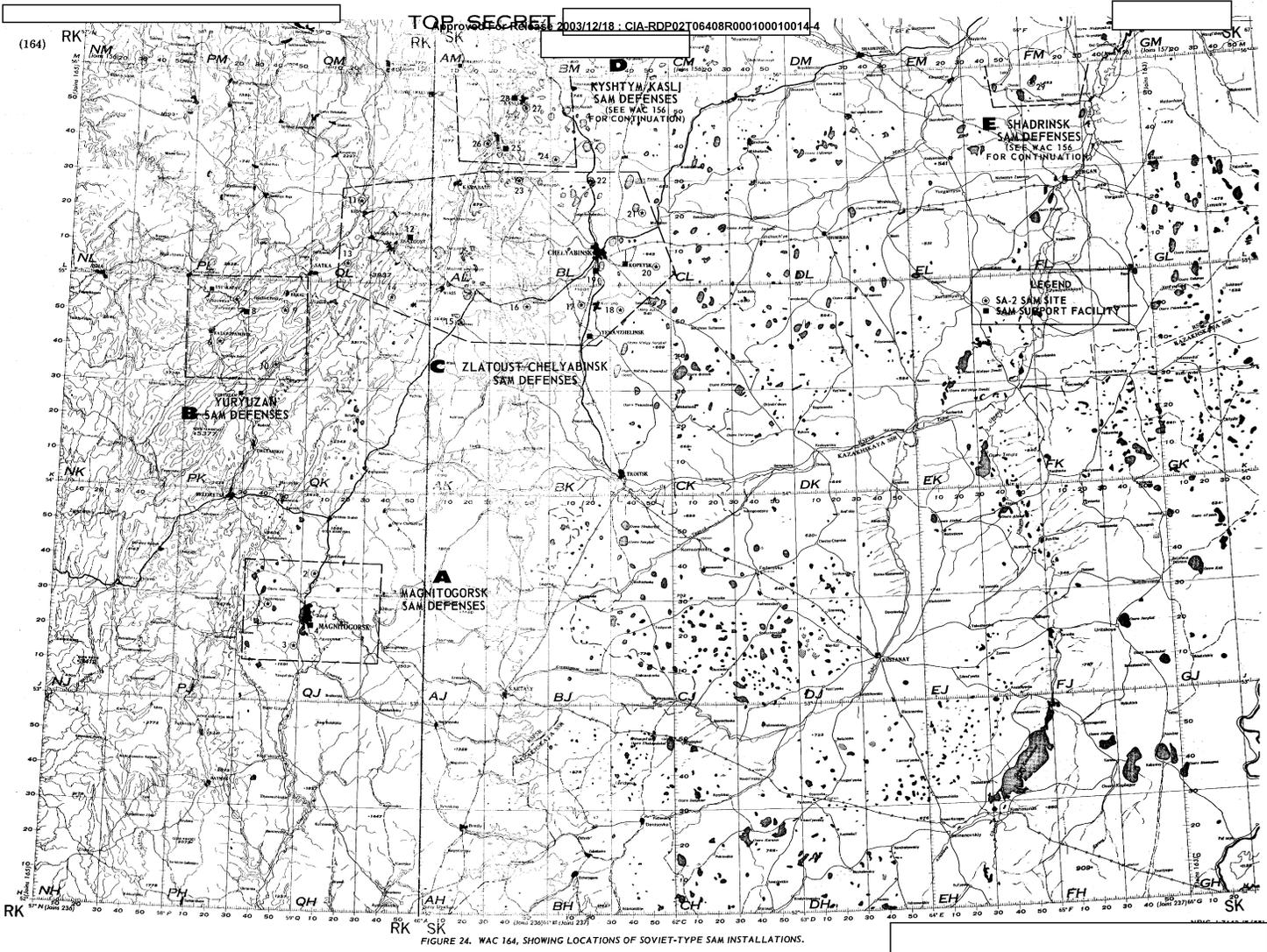
Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated‡	Remarks
A Magnitogorsk SAM Defenses (in defense of largest metallurgical combine in the USSR)							
1	Magnitogorsk SAM Site B29-2,	53-27-00N 58-46-30E	UR 0164-16	SA-2, link			
2	Magnitogorsk SAM Site B02-2,	53-36-50N 59-06-05E	UR 0164-17	SA-2, star			
3	Magnitogorsk SAM Site B21-2,	53-15-00N 58-58-30E	UR 0164-17	SA-2, star			
4	Magnitogorsk SAM Support Facility,	53-21-00N 59-04-00E	UR 0164-17	Type I (rectangular)			
5	Magnitogorsk SAM Site B11-2,	53-29-09N 59-20-39E	UR 0164-17	SA-2, star			
C Zlatoust/Chelyabinsk SAM Defenses (in defense of major central Ural Mountains industrial area: arms, metals, machinery, chemicals and precision instruments production at Chelyabinsk; steel, abrasives, armaments, instruments production, and probably SS-1 assembly at Zlatoust; light industry at Miass; these SAM defenses adjoin the Kasli/Kyshtym SAM defenses which provide protection on the north side of this area)							
11	Zlatoust SAM Site B33-2,	55-24-50N 59-25-20E	UR 0164-2	SA-2, star			
12	Zlatoust SAM Support Facility,	55-13-00N 59-44-00E	UR 0164-2	Type I (rectangular)			
13	Zlatoust SAM Site B25-2,	55-05-50N 59-18-30E	UR 0164-7	SA-2, star			
14	Zlatoust SAM Site B18-2,	54-58-30N 59-41-00E	UR 0164-7	SA-2, star			
15	Miass SAM Site B15-2,	54-49-40N 60-15-00E	UR 0164-7	SA-2, star			This site overlaps an unoccupied, unimproved site. It appears that the site was moved slightly before it was improved and finished.
16	Miass SAM Site C11-2,	54-53-10N 60-48-20E	UR 0164-8	SA-2, star			
17	Chelyabinsk SAM Site B20-2,	54-54-50N 61-16-30E	UR 0164-8	SA-2, star			
18	Chelyabinsk SAM Site B17-2,	54-53-10N 61-34-40E	UR 0164-8	SA-2, link			
19	Chelyabinsk SAM Support Facility,	55-04-10N 61-22-40E	UR 0164-8	Type I (rectangular)			
20	Chelyabinsk SAM Site B11-2,	55-05-30N 61-52-40E	UR 0164-8	SA-2, star			
21	Chelyabinsk SAM Site B05-2,	55-21-10N 61-46-00E	UR 0164-3	SA-2, star			
22	Chelyabinsk SAM Site C36-2,	55-30-40N 61-20-00E	UR 0164-3	SA-2, link			
23	Kyshtym SAM Site B16-2,	55-30-00N 60-43-10E	UR 0164-3	SA-2, link			
D Kyshtym/Kasli SAM Defenses Institute and Kyshtym Atomic Energy Complex: plutonium production)							
24	Kyshtym SAM Site B19-2,	55-25-50N 61-09-40E	UR 0164-3	SA-2, star			
25	Kyshtym SAM Support Facility,	55-38-50N 60-38-26E	UR 0164-3	Type I (rectangular)			
26	Kyshtym SAM Site A23-2,	55-40-20N 60-28-40E	UR 0164-2	SA-2, link			
27	Kyshtym SAM Site B05-2,	55-50-20N 60-47-55E	UR 0164-3	SA-2, link			The perimeter road at this site has an irregular pattern.
28	Kasli SAM Support Facility,	55-53-30N 60-41-45E	UR 0164-3	Type I (rectangular)			
E Shadrinsk SAM Defenses (in defense of Shadrinsk ICBM Complex)							
29	Kurgan SAM Site C35-2,	55-54-20N 65-05-20E	UR 0164-5	SA-2, star			

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URAL-TAU RANGE (164)

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Table 22. SAM Installations on WAC 165

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
A Kazan SAM Defenses (in defense of Kazan: production center for aircraft parts, engines and airframes, optical equipment, explosives, synthetic rubber, and chemicals)							
1	Kazan SAM Site B30-2	55-58-30N 48-48-10E	UR 0185-1	SA-2, link			
2	Kazan SAM Site A19-2	55-41-00N 49-06-30E	UR 0185-1	SA-2, star			
3	Kazan SAM Support Facility	55-48-00N 49-13-00E	UR 0185-1	Type I (rectangular)			
4	Kazan SAM Site B08-2	55-49-05N 49-27-10E	UR 0185-1	SA-2, star			
B Ulyanovsk SAM Defenses (in defense of Uaz Automobile Plant; ammunition, machine tool, aircraft instruments, and POL production; nuclear power plant)							
5	Ulyanovsk SAM Site B27-0	54-18-00N 48-01-10E	UR 0185-11	SA-0, category I			A perimeter road around the launch area has been added and the entire launch area is encircled by a revetment on photography of [redacted]
6	Ulyanovsk SAM Site B08-0	54-29-50N 48-44-30E	UR 0185-11	SA-0, category I			A revetment can be seen around the entire launch area on photography of [redacted]
32	Ulyanovsk SAM Support Facility	54-23-18N 48-20-25E	UR 0185-11	Type II (square)			
C Kuybyshev/Zhigulevsk Dam SAM Defenses (in defense of a strategic dam and hydroelectric power plant at Zhigulevsk and the industrial complex at Kuybyshev; reported alternate capital of USSR; missile and aircraft test and production; arms, bearings, tools, optics, POL, and vehicle parts)							
7	Kuybyshev SAM Site D32-2	53-38-00N 49-20-40E	UR 0185-11	SA-2, configuration undetermined			This is an alternate site. The positions are revetted; however, no service road configuration is visible.
8	Kuybyshev SAM Site C34-2	53-37-20N 49-48-55E	UR 0185-12	SA-2, configuration undetermined			This is an alternate site. The positions are revetted; however, no service road configuration is visible.
9	Kuybyshev SAM Site D31-2	53-31-45N 49-20-50E	UR 0185-16	SA-2, star			Between [redacted] a revetment was built almost completely around this SAM site.
10	Kuybyshev SAM Support Facility 2	53-30-25N 49-31-35E	UR 0185-16	Type I (rectangular)			
11	Kuybyshev SAM Site C32-2	53-31-55N 49-39-10E	UR 0185-17	SA-2, star			This is an alternate site. The positions are revetted; however, no service road configuration is visible.
12	Kuybyshev SAM Site D29-2	53-23-15N 49-15-40E	UR 0185-16	SA-2, configuration undetermined			
13	Kuybyshev SAM Site C29-2	53-21-15N 49-25-00E	UR 0185-16	SA-2, star			
14	Kuybyshev SAM Site C31-2	53-23-23N 49-38-20E	UR 0185-16	SA-2, star			
15	Kuybyshev SAM Site C02-2	53-31-20N 50-16-05E	UR 0185-17	SA-2, star			
16	Kuybyshev SAM Support Facility 1	53-17-10N 50-17-20E	UR 0185-17	Type I (rectangular)			This is a modified rectangular support facility.
17	Kuybyshev SAM Site B07-2	53-18-25N 50-34-20E	UR 0185-17	SA-2, star			
18	Kuybyshev SAM Site C27-2	53-09-45N 49-29-35E	UR 0185-16	SA-2, configuration undetermined			This is an alternate site. The positions are revetted; however, no service road configuration is visible.
19	Kuybyshev SAM Site	52-56-15N 49-36-40E	UR 0185-16	SA-2, configuration undetermined			This is an alternate site. The positions are revetted; however, no service road configuration is visible.
20	Kuybyshev SAM Site B20-2	52-59-10N 50-00-50E	UR 0185-17	SA-2, star			
21	Kuybyshev SAM Site B13-2	53-02-10N 50-29-00E	UR 0185-17	SA-2, star			
D Balakovo SAM Defenses							
22	Balakovo SAM Site B06-0	52-10-40N 48-05-40E	UR 0185-21	SA-0, category I			
E Ufa SAM Defenses (in defense of aircraft engine, POL, chemicals production; large transportation center; suspect missile static test facility)							
23	Ufa SAM Site C08-2	55-05-50N 56-19-00E	UR 0185-10	SA-2, link			
24	Ufa SAM Site B31-2	54-52-25N 55-36-00E	UR 0185-10	SA-2, link			
25	Ufa SAM Support Facility	54-43-25N 55-46-20E	UR 0185-10	Type II (square)			
26	Ufa SAM Site C24-2	54-31-20N 55-24-20E	UR 0185-10	SA-2, link			
27	Ufa SAM Site B17-2	54-30-45N 56-02-00E	UR 0185-10	SA-2, link			
F Sterlitamak SAM Defenses (in defense of cement, chemicals, explosives, and machine tool production facilities; static test facility)							
28	Sterlitamak SAM Site C35-2	53-58-30N 55-50-40E	UR 0185-15	SA-2, link			
29	Sterlitamak SAM Support Facility	53-39-25N 55-49-55E	UR 0185-15	Type II (square)			
30	Sterlitamak SAM Site C24-2	53-24-05N 55-25-15E	UR 0185-20	SA-2, probable link			
31	Sterlitamak SAM Site C19-2	53-08-15N 55-50-45E	UR 0185-20	SA-2, star			

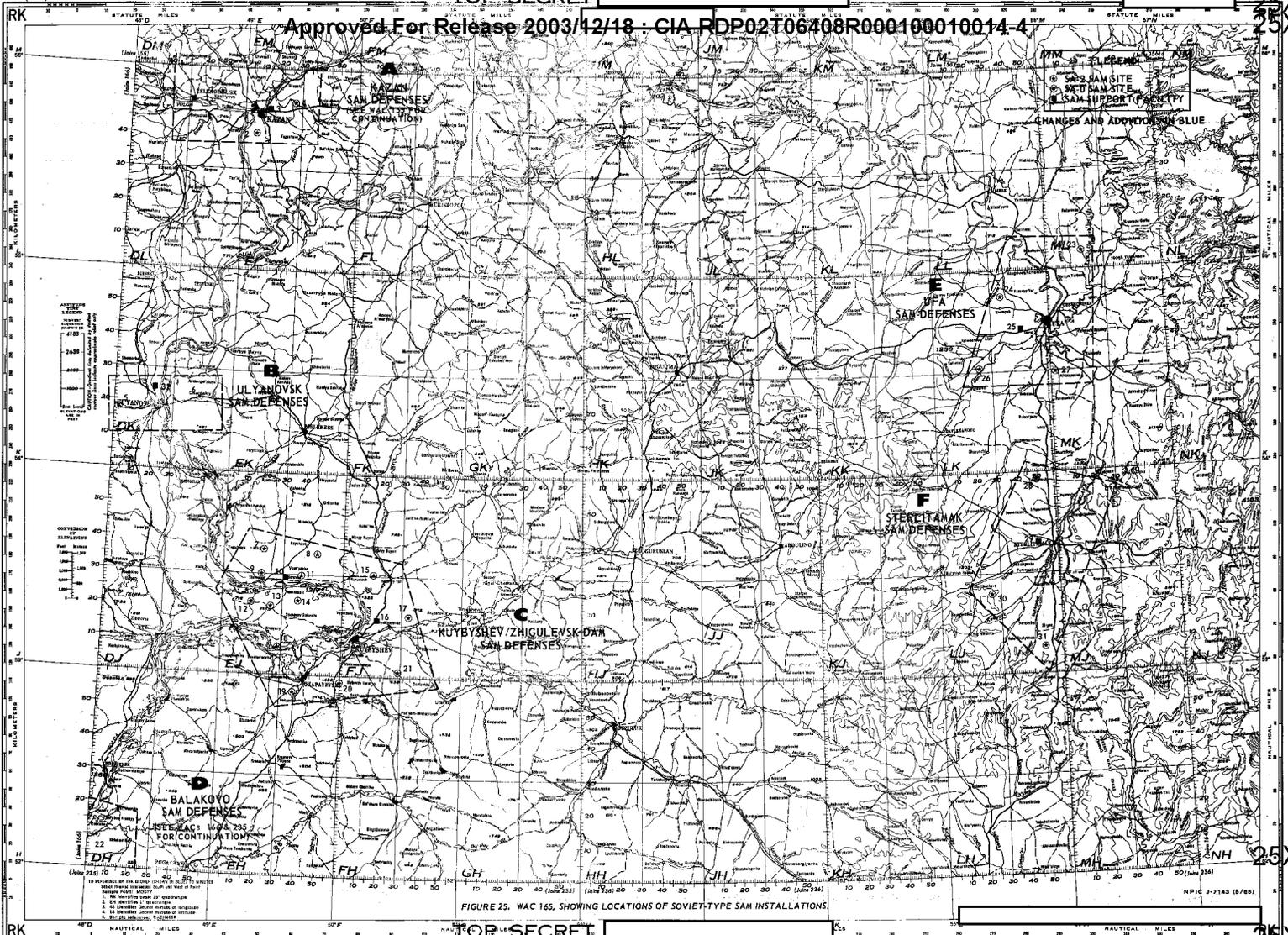
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BELAYA RIVER (165)

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Table 23. SAM Installations on WAC 186

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
Note - Installations whose defensive role cannot be determined and which are not located within the limits of a SAM defense area are found under subheading G - "Defensive Role Undetermined".							
A Ryazan SAM Defenses (in defense of Ryazan: large complex containing extensive rail facilities, metal fabrication plants, and a large military airfield.)							
25	Ryazan SAM Site B32-2, [redacted]	54-48-00N 39-22-50E	UR 0166-6	SA-2, configuration undetermined			[redacted]
26	Ryazan SAM Site B03-2, [redacted]	54-48-10N 39-53-20E	UR 0166-6	SA-2, configuration undetermined			
27	Ryazan SAM Site B28-2, [redacted]	54-26-30N 39-23-10E	UR 0166-6	SA-2, configuration undetermined			
28	Ryazan SAM Site B14-2, [redacted]	54-27-00N 39-59-40E	UR 0166-6	SA-2, configuration undetermined			
B Tambov SAM Defenses (in defense of Tambov Regional Military Storage Installation)							
1	Tambov SAM Site A25-2, [redacted]	52-40-00N 41-17-20E	UR 0166-22	SA-2, link			No internal road configuration is visible.
2	Tambov SAM Site C21-2, [redacted]	52-22-50N 41-12-00E	UR 0166-22	SA-2, configuration undetermined			
3	Tambov SAM Support Facility, [redacted]	52-26-28N 41-28-15E	UR 0166-22	Type II (square)			No internal road configuration is visible.
4	Tambov SAM Site B13-2, [redacted]	52-33-20N 41-48-20E	UR 0166-22	SA-2, configuration undetermined			
5	Tambov SAM Site C17-2, [redacted]	52-17-30N 41-38-30E	UR 0166-22	SA-2, link			
C Sarova Nuclear Weapons Research and Development Center SAM Defenses							
6	Sarova SAM Site B33-2, [redacted]	55-05-00N 43-10-30E	UR 0166-8	SA-2, link			No internal road configuration is visible.
7	Sarova SAM Site B24-2, [redacted]	54-49-00N 43-01-00E	UR 0166-8	SA-2, link			
8	Sarova SAM Site A24-2, [redacted]	54-50-48N 43-07-20E	UR 0166-8	SA-2, configuration undetermined			
9	Sarova SAM Support Facility, [redacted]	54-55-10N 43-15-35E	UR 0166-8	Type I (rectangular)			
10	Sarova SAM Site A35-2, [redacted]	54-58-00N 43-18-45E	UR 0166-8	SA-2, link			
11	Sarova SAM Site B08-2, [redacted]	55-02-00N 43-34-00E	UR 0166-8	SA-2, link			
12	Sarova SAM Site B17-2, [redacted]	54-45-00N 43-19-00E	UR 0166-8	SA-2, configuration undetermined			
13	Gorkiy SAM Site C21-2, [redacted]	55-49-10N 43-34-40E	UR 0166-3	SA-2, link			
14	Gorkiy SAM Site C17-2, [redacted]	55-50-00N 44-10-00E	UR 0166-3	SA-2, link			
15	Arzamas SAM Support Facility, [redacted]	55-44-40N 43-53-35E	UR 0166-3	Type II (square)			
16	Arzamas SAM Site B34-2, [redacted]	55-33-30N 43-39-40E	UR 0166-3	SA-2, link			
17	Arzamas SAM Site B05-2, [redacted]	55-33-30N 44-09-00E	UR 0166-3	SA-2, link			
E Penza SAM Defenses (in defense of armament, machinery, instrument, computer, and ammunition production; POL storage; and transportation facilities)							
18	Penza SAM Site B01-9, [redacted]	53-23-35N 45-04-00E	UR 0166-19	SA-2, star			As seen on [redacted] a revetment was being placed around the entire site. A perimeter road around the launch area was visible on photography of [redacted]. Now the configuration of this site closely compares to that of a SA-2, star.
19	Penza SAM Site B26-0, [redacted]	53-08-15N 44-41-45E	UR 0166-19	SA-0, category I			
20	Penza SAM Support Facility, [redacted]	53-12-00N 44-56-30E	UR 0166-19	Type I (rectangular)			A revetment completely surrounds this site, including the missile-hold revetments.
21	Penza SAM Site B08-0, [redacted]	53-16-40N 45-31-00E	UR 0166-19	SA-0, category I			
22	Penza SAM Site B16-2, [redacted]	53-01-25N 45-10-40E	UR 0166-19	SA-2, star			
F Balakovo SAM Defenses							
23	Balakovo SAM Support Facility [redacted]	52-00-25N 47-48-40E	UR 0166-25	Type I (rectangular)			
G Defensive Role Undetermined							
24	Orehovo-Zuyevo SAM Site B09-3, [redacted]	55-49-30N 39-22-40E	UR 0166-1	SA-3, configuration undetermined			

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Table 24. SAM Installations on WAC 167

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
A Orsha SAM Defenses (in defense of long-range bomber base, strategic railroad facilities, and military training and storage facilities)							
1	Orsha SAM Site A04-2, [redacted]	54-34-15N 30-29-25E	UR 0167-6	SA-2, star			
2	Orsha SAM Support Facility, [redacted]	54-29-00N 30-25-40E	UR 0167-6	Type II (square)			
3	Orsha SAM Site B16-2, [redacted]	54-19-00N 30-33-00E	UR 0167-11	SA-2, star			
81	Orsha SAM Training Site A17-2, [redacted]	54-28-40N 30-24-40E	UR 0167-6	SA-2, configuration undetermined			This site is adjacent to the south side of the Orsha SAM Support Facility. Six unvetted launch positions are located around a rectangular service road.
B Gomel SAM Defenses (in defense of long-range bomber base, MRBM complex, machine tool and agricultural machinery production, and transportation facilities)							
4	Gomel SAM Site B25-2, [redacted]	52-21-00N 30-41-16E	UR 0167-21	SA-2, link			
5	Gomel SAM Site A33-2, [redacted]	52-32-50N 30-52-55E	UR 0167-21	SA-2, probable link			
6	Gomel SAM Support Facility, [redacted]	52-25-20N 30-55-20E	UR 0167-21	Type I (rectangular)			
7	Gomel SAM Site B18-2, [redacted]	52-18-05N 31-09-55E	UR 0167-21	SA-2, link			
8	Gomel SAM Site A15-2, [redacted]	52-18-00N 31-08-00E	UR 0167-21	SA-2, link			
C Smolensk SAM Defenses (in defense of the Smolensk town complex: rail facilities, a large airfield, and minor industries)							
72	Smolensk SAM Site A24-2, [redacted]	54-44-15N 31-55-40E	UR 0167-7	SA-2, modified link			The perimeter road of this SAM site is more rectangular than circular. At the time of the previous report, <u>5</u> the defense role of this site was undetermined.
82	Smolensk SAM Site A33-2, [redacted]	54-51-30N 31-57-10E	UR 0167-7	SA-2, configuration undetermined			
D Bryansk SAM Defenses (in defense of Bryansk complex, air-defense zone headquarters, and minor industrial plants)							
9	Bryansk SAM Site B29-2, [redacted]	53-19-40N 33-56-20E	UR 0167-18	SA-2, link			
10	Bryansk SAM Site B23-2, [redacted]	53-08-40N 34-01-40E	UR 0167-18	SA-2, link			
11	Bryansk SAM Site B01-2, [redacted]	53-28-45N 34-22-00E	UR 0167-18	SA-2, link			
12	Bryansk SAM Support Facility, [redacted]	53-21-15N 34-17-50E	UR 0167-18	Type II (square)			
13	Bryansk SAM Site A13-2, [redacted]	53-11-08N 34-34-15E	UR 0167-18	SA-2, link			
E Vyazma SAM Defenses (in defense of the Vyazma town complex: rail facilities, a large military airfield, and minor industries)							
83	Vyazma SAM Site B28-2, [redacted]	55-12-55N 33-52-00E	UR 0167-3	SA-2, link			
84	Vyazma SAM Site B36-2, [redacted]	55-28-06N 34-15-33E	UR 0167-3	SA-2, link			
85	Vyazma SAM Site B05-2, [redacted]	55-23-40N 34-38-30E	UR 0167-3	SA-2, link			
86	Vyazma SAM Site B16-2, [redacted]	55-00-40N 34-26-05E	UR 0167-3	SA-2, link			
F Moscow SAM Defenses (in defense of Soviet capital—largest city in USSR: major military, industrial, and research center)							
14	Moscow SAM Site E28-2, [redacted]	55-52-20N 36-16-40E	UR 0167-4	SA-3, configuration F			
15	Moscow SAM Site E26-1, [redacted]	55-52-24N 36-17-58E	UR 0167-4	SA-1, herringbone			
16	Moscow SAM Site E27-3, [redacted]	55-44-30N 36-14-30E	UR 0167-4	SA-3, configuration G			
17	Moscow SAM Site E27-1, [redacted]	55-44-23N 36-16-03E	UR 0167-4	SA-1, herringbone			
18	Moscow SAM Site E26-3, [redacted]	55-38-40N 36-19-00E	UR 0167-4	SA-3, configuration G			
19	Moscow SAM Site E26-1, [redacted]	55-36-41N 36-19-26E	UR 0167-4	SA-1, herringbone			
20	Moscow SAM Site E25-1, [redacted]	55-27-46N 36-24-24E	UR 0167-4	SA-1, herringbone			
21	Moscow SAM Site E24-1, [redacted]	55-21-04N 36-29-27E	UR 0167-4	SA-1, herringbone			This is one of the 4 SA-1 sites at Moscow which shows possible AMM-associated activity.
22	Moscow SAM Site E23-1, [redacted]	55-14-45N 36-38-18E	UR 0167-4	SA-1, herringbone			
23	Moscow SAM Site E22-1, [redacted]	55-09-06N 36-50-42E	UR 0167-9	SA-1, herringbone			
24	Moscow SAM Site E21-1, [redacted]	55-04-10N 37-01-20E	UR 0167-9	SA-1, herringbone			
25	Moscow SAM Site E20-1, [redacted]	55-00-34N 37-14-09E	UR 0167-10	SA-1, herringbone			
26	Moscow SAM Site E19-1, [redacted]	55-00-30N 37-29-32E	UR 0167-10	SA-1, herringbone			
27	Moscow SAM Site E18-1, [redacted]	55-01-10N 37-42-20E	UR 0167-10	SA-1, herringbone			
28	Moscow SAM Site E17-1, [redacted]	55-02-53N 37-55-42E	UR 0167-10	SA-1, herringbone			
29	Moscow SAM Site E16-1, [redacted]	55-05-24N 38-10-43E	UR 0167-10	SA-1, herringbone			
30	Moscow SAM Site E15-1, [redacted]	55-09-50N 38-22-17E	UR 0167-10	SA-1, herringbone			This is one of the 4 SA-1 sites at Moscow which show possible AMM-associated activity.
31	Moscow SAM Site E14-1, [redacted]	55-15-81N 38-32-00E	UR 0167-5	SA-1, herringbone			

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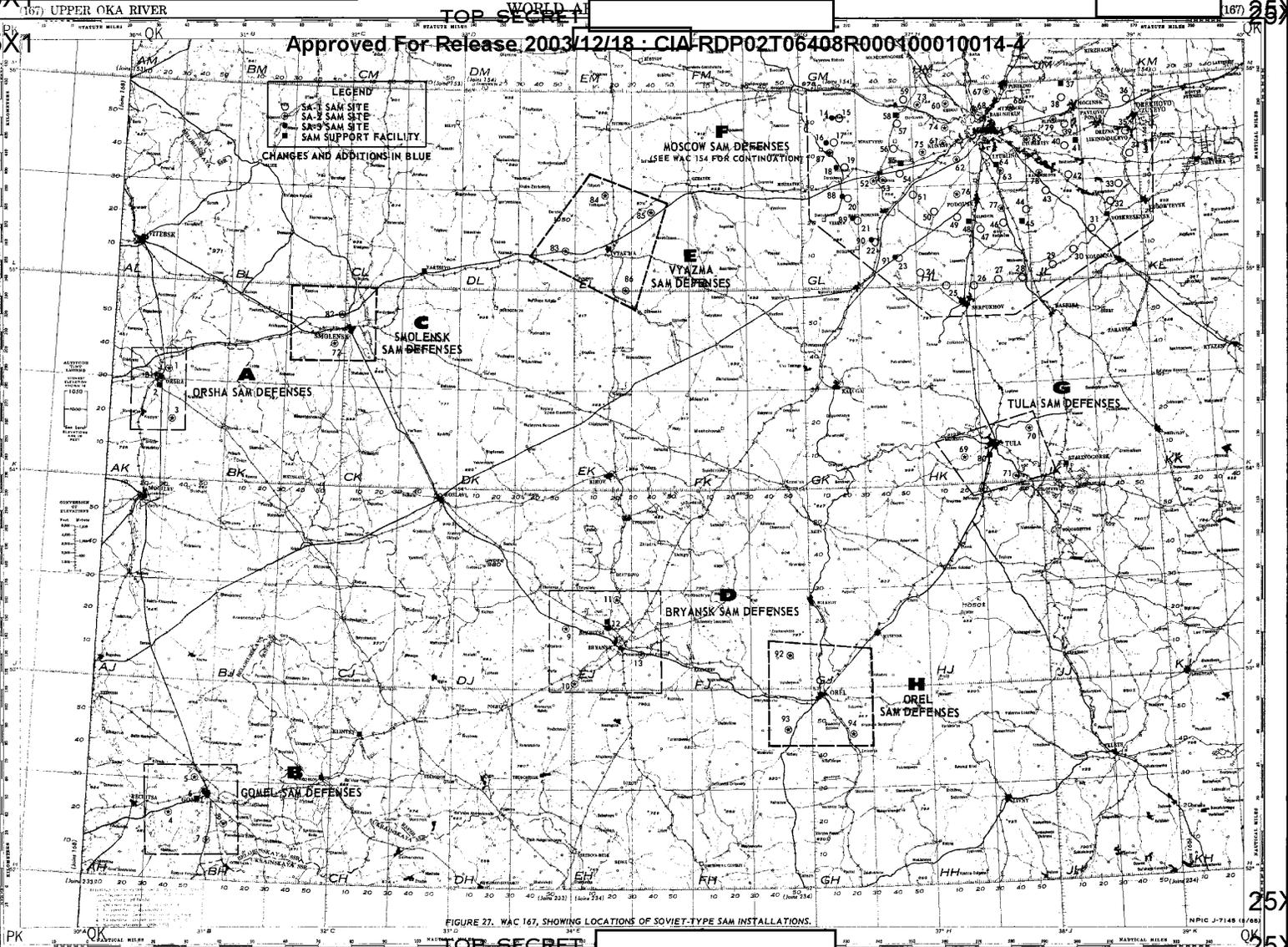
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FIGURE 27. WAC 167, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 24. SAM Installations on WAC 167 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
25X1 32	Moscow SAM Site E13-1, [redacted]	55-28-37N 38-48-32E	UR 0167-5	SA-1, herringbone			This is 1 of 7 such facilities deployed around Moscow. This facility was previously named Makarovo SAM Storage Site.
33	Moscow SAM Site E12-1, [redacted]	55-28-32N 38-49-47E	UR 0167-5	SA-1, herringbone			
34	Moscow SAM Site E10-1, [redacted]	55-37-12N 38-55-31E	UR 0167-5	SA-1, herringbone			
35	Moscow SAM Site E10A-1, [redacted]	55-44-13N 38-54-54E	UR 0167-5	SA-1, herringbone			
36	Moscow SAM Site E08-1, [redacted]	55-53-19N 38-54-49E	UR 0167-5	SA-1, herringbone			
37	Moscow SAM Storage Site [redacted]	55-59-45N 38-20-30E	UR 0167-5	Missile assembly and storage plant			
25X1 38	Moscow SAM Site C07-1, [redacted]	55-55-13N 38-20-28E	UR 0167-5	SA-1, herringbone			
39	Moscow SAM Site C09-1, [redacted]	55-47-38N 38-21-40E	UR 0167-5	SA-1, herringbone			
40	Moscow SAM Site C10-1, [redacted]	55-40-17N 38-21-59E	UR 0167-5	SA-1, herringbone			
41	Moscow SAM Storage Site [redacted]	55-41-30N 38-27-46E	UR 0167-5	Missile assembly and storage plant			
42	Moscow SAM Site C12-1, [redacted]	55-32-10N 38-22-40E	UR 0167-5	SA-1, herringbone			
43	Moscow SAM Site C14-1, [redacted]	55-27-48N 38-09-01E	UR 0167-5	SA-1, herringbone			
44	Moscow SAM Site C18-1, [redacted]	55-22-12N 37-58-51E	UR 0167-5	SA-1, herringbone			
45	Moscow SAM Storage Site [redacted]	55-19-20N 37-54-50E	UR 0167-5	Missile assembly and storage plant			This is 1 of 7 such facilities deployed around Moscow. This facility was previously named Belyye Stolby SAM Storage Site.
46	Moscow SAM Site C17-1, [redacted]	55-18-43N 37-48-05E	UR 0167-5	SA-1, herringbone			
47	Moscow SAM Site C19-1, [redacted]	55-17-08N 37-34-35E	UR 0167-5	SA-1, herringbone			
48	Moscow SAM Storage Site [redacted]	55-19-40N 37-27-05E	UR 0167-5	Missile assembly and storage plant			
49	Moscow SAM Site C20-1, [redacted]	55-20-15N 37-22-07E	UR 0167-5	SA-1, herringbone			
50	Moscow SAM Site C22-1, [redacted]	55-22-57N 37-10-39E	UR 0167-4	SA-1, herringbone			
51	Moscow SAM Site C24-1, [redacted]	55-27-33N 36-59-25E	UR 0167-4	SA-1, herringbone			
52	Moscow SAM Site D25A-2, [redacted]	55-33-00N 36-40-50E	UR 0167-4	SA-2, unrevetted			This site, and Moscow SAM Site D25A-2, are possibly used for SAM training.
53	Moscow SAM Site D25-2, [redacted]	55-33-10N 36-41-10E	UR 0167-4	SA-2, link			
54	Moscow SAM Site C25-1, [redacted]	55-34-35N 36-52-31E	UR 0167-4	SA-1, herringbone			
55	Moscow SAM Storage Site [redacted]	55-37-50N 36-53-10E	UR 0167-4	Missile assembly and storage plant			
56	Moscow SAM Site C27-1, [redacted]	55-41-01N 36-48-55E	UR 0167-4	SA-1, herringbone			
57	Moscow SAM Site C28-1, [redacted]	55-49-17N 36-32-03E	UR 0167-4	SA-1, herringbone			
58	Moscow SAM Storage Site [redacted]	55-51-30N 36-51-40E	UR 0167-4	Missile assembly and storage plant			
59	Moscow SAM Site C30-1, [redacted]	55-56-32N 36-55-05E	UR 0167-4	SA-1, herringbone			
60	Moscow SAM Site B31-2, [redacted]	55-54-10N 37-18-45E	UR 0167-5	SA-2, link			
61	Moscow SAM Site B26-2, [redacted]	55-42-15N 37-16-47E	UR 0167-5	SA-2, fan			
62	Moscow SAM Site B22-2, [redacted]	55-37-30N 37-25-00E	UR 0167-5	SA-2, fan			
63	Moscow SAM Site B16-2, [redacted]	55-34-20N 37-47-00E	UR 0167-5	SA-2, link			
64	Moscow SAM Support Facility 1, [redacted]	55-35-50N 37-44-00E	UR 0167-5	Type 1 (rectangular)			[redacted] this site was apparently being camouflaged by the use of additional roads and buildings to break up the normal SA-2 site signature. This facility was previously named Biryulevo SAM Support Facility.
25X1 65	Moscow SAM Site B11-2, [redacted]	55-42-00N 38-00-00E	UR 0167-5	SA-2, link			
25X1 66	Moscow SAM Site B08-2, [redacted]	55-52-30N 37-53-30E	UR 0167-5	SA-2, link			
67	Moscow SAM Site B01-2, [redacted]	55-57-50N 37-40-10E	UR 0167-5	SA-2, link			

[redacted] This site has disappeared. When seen on [redacted] large buildings, primary apartment-type dwellings, were being constructed in this area.

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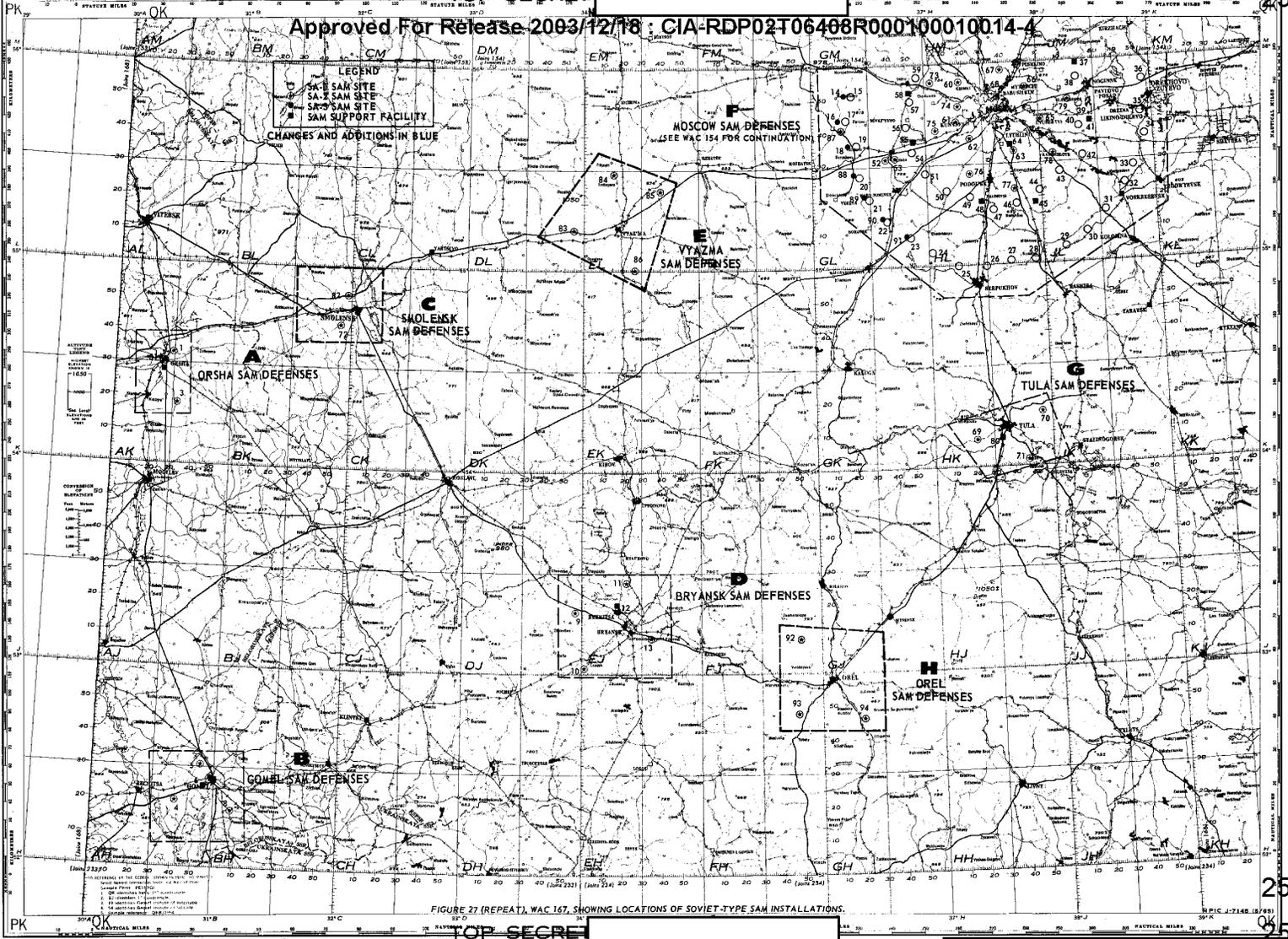


FIGURE 27 (REPEAT), WAC 167, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 24. SAM Installations on WAC 107 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
73	Moscow SAM Site C30-2, [redacted]	55-54-10N 37-09-25E	UR 0167-4	SA-2, configuration undetermined	[redacted]	[redacted]	[redacted]
74	Moscow SAM Site B29-2, [redacted]	55-47-50N 37-16-00E	UR 0167-5	SA-2, configuration undetermined			
75	Moscow SAM Site B26A-2, [redacted]	55-40-50N 37-05-40E	UR 0167-4	SA-2, configuration undetermined			
76	Moscow SAM Site B21-2, [redacted]	55-27-30N 37-28-00E	UR 0167-5	SA-2, configuration undetermined			
77	Moscow SAM Site C17-2, [redacted]	55-32-30N 37-46-30E	UR 0167-5	SA-2, configuration undetermined			
78	Moscow SAM Site C13-2, [redacted]	55-32-22N 38-06-10E	UR 0167-5	SA-2, configuration undetermined			
79	Moscow SAM Site C08-2, [redacted]	55-48-50N 38-15-00E	UR 0167-5	SA-2, configuration undetermined			
87	Moscow SAM Training Site E27-2, [redacted]	55-41-10N 36-14-10E	UR 0167-4	SA-2, star	[redacted]	[redacted]	A large barracks area is associated with this site.
88	Moscow SAM Site E25-3, [redacted]	55-27-55N 36-29-00E	UR 0167-4	SA-2, configuration G			
89	Moscow SAM Site E24-3, [redacted]	55-20-50N 36-27-30E	UR 0167-4	SA-2, configuration G			
90	Moscow SAM Site E23-3, [redacted]	55-14-20N 36-38-00E	UR 0167-4	SA-2, configuration G			
91	Moscow SAM Site E22-3, [redacted]	55-09-00N 36-48-00E	UR 0167-4	SA-2, configuration G			
G Tula SAM Defenses (in defense of small-arms, ammunition, machinery, and pig-iron plants; three large power plants; and headquarters of airborne division)							
69	Tula SAM Site A25-2, [redacted]	54-08-10N 37-21-30E	UR 0167-15	SA-2, configuration undetermined	[redacted]	[redacted]	[redacted]
70	Tula SAM Site B06-2, [redacted]	54-17-30N 37-54-30E	UR 0167-15	SA-2, link			
71	Tula SAM Site B15-2, [redacted]	54-02-50N 37-47-20E	UR 0167-15	SA-2, link			
80	Tula SAM Support Facility, [redacted]	54-09-05N 37-34-20E	UR 0167-15	Type I (rectangular)			
H Orel SAM Defenses (in defense of the Orel town complex: a military airfield and extensive rail, industrial, and storage facilities)							
92	Orel SAM Site B33-2, [redacted]	53-10-25N 35-50-30E	UR 0167-19	SA-2, link	[redacted]	[redacted]	[redacted]
93	Orel SAM Site B23-2, [redacted]	52-47-50N 35-48-00E	UR 0167-24	SA-2, link			
94	Orel SAM Site B14-2, [redacted]	52-47-20N 36-19-00E	UR 0167-24	SA-2, probable link			

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167 UPPER OKA RIVER

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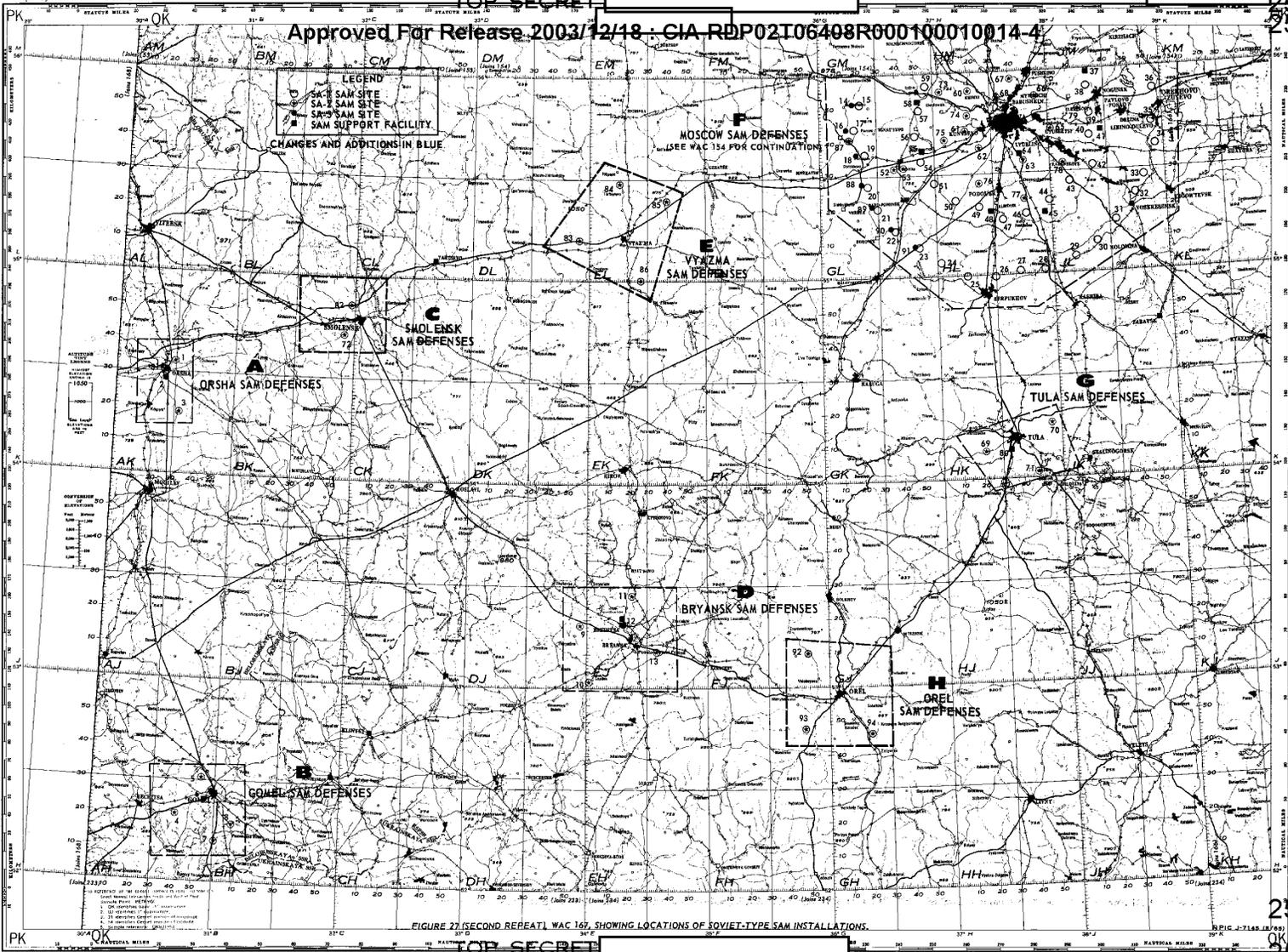


FIGURE 27 (SECOND REPEAT) WAC 167, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 25. SAM Installations on WAC 168

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
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NOTE: It is probable that the Soviets have attempted to create a zone defense in the USSR portion of this area, since many of the sites on the Soviet side of the border do not fall into obvious defense patterns. An attempt has been made to group these sites into logical complexes; however, it is recognized that the arrangement presented here is only one of several possible solutions. Those sites whose defensive role cannot be determined and which are not located within the limits of a SAM defense area are found under subheading R-4 "Defensive Role Undetermined".

A Kaliningrad SAM Defenses (in defense of strategic rail and water transportation routes; military supply depots, training bases, and garrisons; shipbuilding and railroad stock manufacturing; and MRBM complexes)

1	Polosk SAM Site A17A-3, [redacted]	54-50-40N 21-06-40E	UR 0168-6	SA-3, configuration undetermined			[redacted]
2	Polosk SAM Site A17-3, [redacted]	54-50-20N 21-06-45E	UR 0168-6	SA-3, configuration F			
3	Kaliningrad SAM Site C08-2, [redacted]	54-50-10N 21-07-20E	UR 0168-6	SA-2, star			
4	Kaliningrad SAM Site C11-3, [redacted]	54-38-00N 21-03-00E	UR 0168-6	SA-3, configuration G			
5	Kaliningrad SAM Support Fac [redacted]	54-38-50N 21-05-58E	UR 0168-6	Type I (rectangular)			
85	Kaliningrad SAM Site C14-2, [redacted]	54-25-30N 21-00-00E	UR 0168-6	SA-2, star			

This installation has been negated as a SA-3 Site. [redacted] 3 of the 4 revetted launch positions were being graded over; however, the site configuration remains.

This site is precisely on the meridian between 2 WACs and at various times in the past, it has been carried on both. Previously, it was carried as item 36 on WAC 169, [redacted]

B USSR Western Border SAM Defenses (in defense of the western border of the USSR; Klaipeda--principal port of Lithuanian SSR with commercial and naval port facilities; Sovetsk; Kaunas--major transportation center; Chernyakhovsk--major rail transportation, military center, and MRBM deployment area; Grodno--large military training and supply base; Shchuchin Airfield [redacted] Pruzhany MRBM Complex; and Brest--strategic rail transloading point, service and repair facility, and military center)

6	Palanga SAM Site A09-3, [redacted]	55-58-51N 21-06-00E	UR 0168-1	SA-3, configuration F			[redacted]
7	Palanga SAM Site A03-2, [redacted]	55-58-45N 21-06-30E	UR 0168-1	SA-2, link			
8	Klaipeda SAM Site A17-3, [redacted]	55-37-45N 21-10-30E	UR 0168-1	SA-3, configuration G			
9	Klaipeda SAM Site A17-2, [redacted]	55-37-30N 21-10-20E	UR 0168-1	SA-2, star			
10	Sovetsk SAM Site B32-3, [redacted]	55-17-45N 21-30-10E	UR 0168-1	SA-3, configuration F			
11	Sovetsk SAM Site B32-2, [redacted]	55-17-21N 21-30-30E	UR 0168-1	SA-2, link			
12	Sovetsk MRBM Complex SAM Site B01-3, [redacted]	55-09-55N 21-33-50E	UR 0168-6	SA-3, configuration G			
13	Sovetsk MRBM Complex SAM Site A06-3, [redacted]	55-00-40N 21-38-00E	UR 0168-6	SA-3, configuration F			
14	Sovetsk SAM Support Facility, [redacted]	55-08-45N 21-55-00E	UR 0168-6	Type II (square)			
15	Neman SAM Site A24-3, [redacted]	55-01-25N 21-59-50E	UR 0168-6	SA-3, configuration F			
16	Chernyakhovsk SAM Site B21-3, [redacted]	54-20-15N 21-35-30E	UR 0168-11	SA-3, probable configuration F			
17	Chernyakhovsk SAM Site B21-2, [redacted]	54-20-20N 21-36-18E	UR 0168-11	SA-2, link			
18	Chernyakhovsk SAM Site B16-2, [redacted]	54-24-50N 22-02-10E	UR 0168-6	SA-2, star			
19	Ozarsk SAM Site A10-3, [redacted]	54-24-35N 22-02-26E	UR 0168-6	SA-3, configuration F			
20	Chernyakhovsk SAM Site A30-2, [redacted]	54-38-50N 22-43-05E	UR 0168-6	SA-2, star			
21	Marijampole SAM Site A16-2, [redacted]	54-29-00N 23-23-00E	UR 0168-7	SA-2, link			
22	Grodno SAM Site A29-2, [redacted]	53-42-40N 23-39-00E	UR 0168-12	SA-2, probable link			
23	Lida MRBM Complex SAM Site C29-3, [redacted]	53-59-55N 24-48-13E	UR 0168-13	SA-3, configuration F			
24	Lida MRBM Complex SAM Site C29-2, [redacted]	53-58-45N 24-48-20E	UR 0168-13	SA-2, link			
25	Shchuchin SAM Support Facility, [redacted]	53-35-00N 24-59-00E	UR 0168-18	Type II (square)			
26	Shchuchin SAM Site A26-2, [redacted]	53-35-30N 24-36-00E	UR 0168-18	SA-2, link			
27	Shchuchin SAM Site A27-3, [redacted]	53-35-45N 24-37-30E	UR 0168-18	SA-3, configuration F			
28	Volkovsk SAM Site A34-3, [redacted]	53-18-10N 24-21-30E	UR 0168-17	SA-3, configuration F			
29	Volkovsk SAM Site A34-2, [redacted]	53-18-00N 24-22-20E	UR 0168-17	SA-2, link			
30	Volkovsk SAM Site A36-3, [redacted]	53-10-10N 24-28-00E	UR 0168-17	SA-3, configuration undetermined			
31	Volkovsk SAM Site B19-3, [redacted]	52-55-20N 24-25-00E	UR 0168-17	SA-3, configuration F			
32	Volkovsk SAM Site B19-2, [redacted]	52-55-35N 24-25-20E	UR 0168-17	SA-2, link			
33	Pruzhany MRBM Complex SAM Site B06-3, [redacted]	52-40-00N 24-28-20E	UR 0168-22	SA-3, configuration F			

This facility was previously named Ragnit SAM Site A24-3.

This site has 2 additional large revetments of unknown function associated with it.

This site has 2 additional large revetments of unknown function associated with it.

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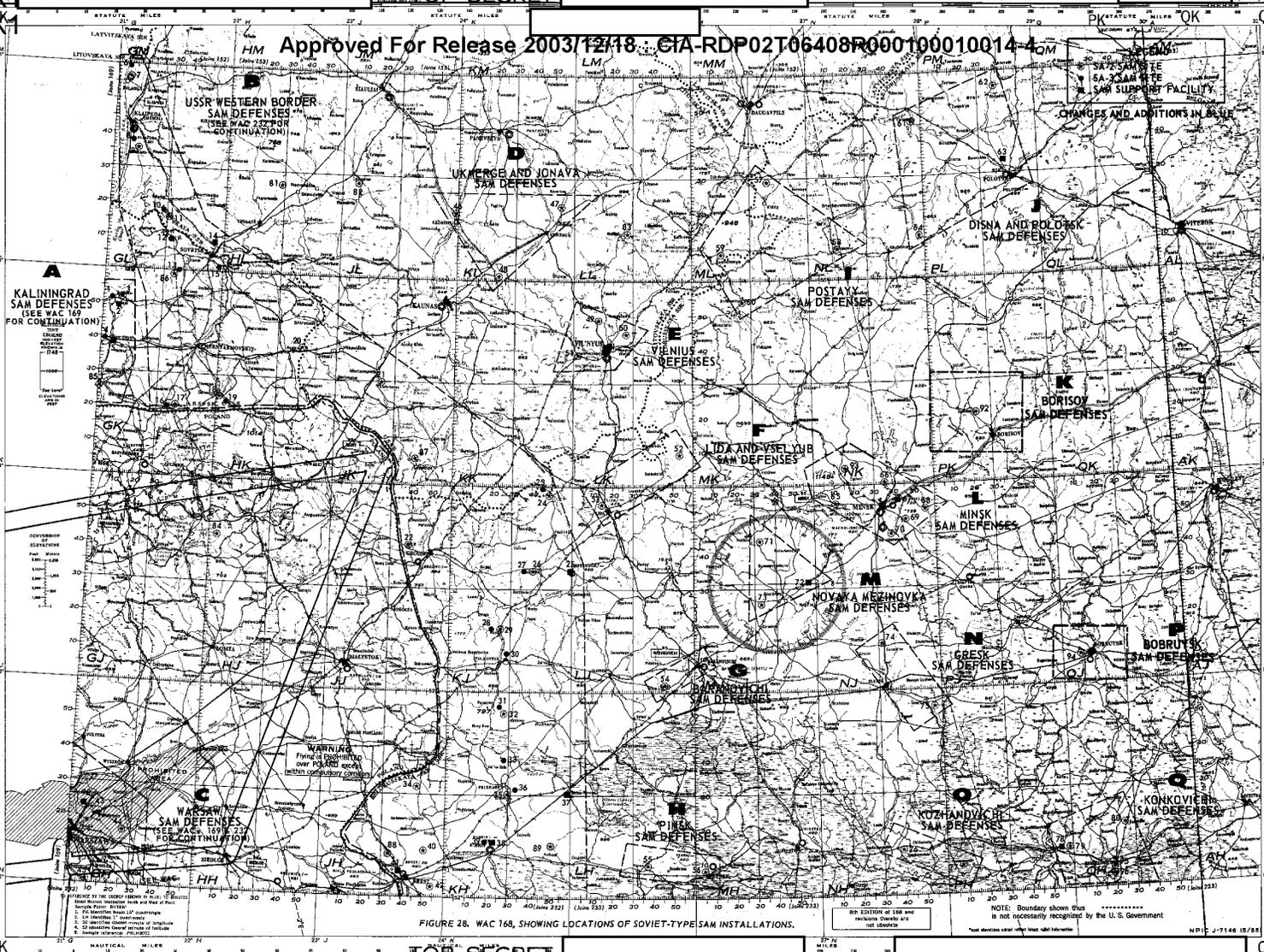


FIGURE 28. WAC 168, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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NEMAN RIVER (168)
POLAND-USSR

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Table 25. SAM Installations on WAC 168 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
34	Pruzhan SAM Site C27-2, [redacted]	52-32-55N 23-46-20E	UR 0168-22	SA-2, link			This site has 2 additional large revetments of unknown function associated with it.
35	Pruzhan MRBM Complex SAM Site B10-2, [redacted]	52-30-00N 24-30-15E	UR 0168-22	SA-2, link			
36	Pruzhan MRBM Complex SAM Site B10-3, [redacted]	52-31-20N 24-31-00E	UR 0168-22	SA-3, configuration F			This SAM site has an unrevetted site adjacent to it.
37	Bereza SAM Support Facility, [redacted]	52-30-35N 24-58-40E	UR 0168-22	Type I (rectangular)			
38	Pruzhan SAM Support Facility, [redacted]	52-16-40N 24-20-50E	UR 0168-22	Type II (square)			This site has 2 additional large revetments of unknown function associated with it.
39	Pruzhan MRBM Complex SAM Site B16-3, [redacted]	52-16-10N 24-20-00E	UR 0168-22	SA-3, configuration F			
40	Brest SAM Site A03-2, [redacted]	52-13-40N 23-49-30E	UR 0168-22	SA-3, link			This site has 2 additional large revetments of unknown function associated with it.
41	Brest SAM Support Facility, [redacted]	52-07-30N 23-37-20E	UR 0168-22	Type I (rectangular)			
42	Brest SAM Site A11-2, [redacted]	52-03-10N 23-53-20E	UR 0168-22	SA-3, link			
86	Sovetsk MRBM Complex SAM Site A07-2, [redacted]	55-00-20N 21-38-00E	UR 0168-6	SA-2, link			
87	Grodno SAM Site C35-2, [redacted]	54-07-40N 23-40-00E	UR 0168-12	SA-2, link			This site has 2 additional large revetments of unknown function associated with it.
88	Brest SAM Site A33-2, [redacted]	52-13-05N 23-32-20E	UR 0168-22	SA-2, configuration undetermined			
89	Bereza SAM Site B20-2, [redacted]	52-15-00N 24-50-40E	UR 0168-22	SA-2, configuration undetermined			
C Warsaw (Poland) SAM Defenses (in defense of the Polish capital: industrial, military, and governmental control center of Poland)							
43	Warsaw SAM Site B04-2, [redacted]	52-22-50N 21-11-00E	PO 0168-31	SA-2, fan			This site has 2 additional large revetments of unknown function associated with it.
44	Warsaw SAM Site B09-2, [redacted]	52-16-25N 21-38-00E	PO 0168-21	SA-2, fan			
45	Warsaw SAM Site B18-2, [redacted]	52-01-20N 21-10-10E	PO 0168-21	SA-2, fan			
90	Warsaw SAM Support Facility 2, [redacted]	52-22-50N 21-05-45E	UR 0168-21	Type I (rectangular)			
D Ukmerge and Jonava MRBM Complexes SAM Defenses (in defense of Ukmerge and Jonava MRBM Complexes)							
46	Kedainiai SAM Site A01-2, [redacted]	55-19-30N 23-59-10E	UR 0168-2	SA-2, link			This site has 2 additional large revetments of unknown function associated with it.
47	Ukmerge SAM Site A04-2, [redacted]	55-21-20N 24-53-00E	UR 0168-2	SA-2, star			
48	Jonava SAM Site A15-2, [redacted]	55-01-45N 24-21-05E	UR 0168-7	SA-2, star			
E Vilnius SAM Defenses (in defense of Vilnius, capital of Lithuanian SSR: major military and rail facilities, Radio Plant 535)							
49	Vilnius SAM Site A24-2, [redacted]	54-48-50N 25-12-30E	UR 0168-8	SA-2, link			This site has 2 additional large revetments of unknown function associated with it.
50	Vilnius SAM Site A08-2, [redacted]	54-44-10N 25-28-50E	UR 0168-8	SA-2, link			
51	Vilnius SAM Site A26-2, [redacted]	54-38-00N 25-02-00E	UR 0168-8	SA-2, link			
91	Vilnius SAM Support Facility, [redacted]	54-39-20N 25-15-00E	UR 0168-8	Type undetermined (irregular)			
F Lida and Vselub MRBM Complexes SAM Defenses (in defense of Lida and Vselub MRBM Complexes)							
52	Vselub MRBM Complex SAM Site C02-2, [redacted]	54-09-10N 25-53-40E	UR 0168-13	SA-2, link			This site has 1 additional large revetment of unknown function associated with it.
53	Lida MRBM Complex SAM Site A29-2, [redacted]	53-54-00N 25-14-10E	UR 0168-13	SA-2, link			
G Baranovich SAM Defenses (in defense of long-range bomber base [redacted] and military facilities)							
54	Baranovich SAM Site B24-2, [redacted]	53-01-50N 25-45-10E	UR 0168-13	SA-2, fan			
H Pinsk MRBM Complex SAM Defenses (in defense of Pinsk MRBM Complex)							
55	Pinsk MRBM Complex SAM Site A25-2, [redacted]	52-09-30N 25-36-20E	UR 0168-23	SA-2, link			This site has 2 additional large revetments of unknown function associated with it.
56	Pinsk MRBM Complex SAM Site B11-2, [redacted]	52-07-40N 26-03-20E	UR 0168-23	SA-2, link			

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Table 25. SAM Installations on WAC 168 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated?	Remarks
I Postavy MRBM Complex SAM Defenses (in defense of Postavy MRBM Complex)							
57	Postavy MRBM Complex SAM Site B34-2, [REDACTED]	55-28-00N 26-40-50E	UR 0168-4	SA-2, link			[REDACTED]
58	Postavy MRBM Complex SAM Site B10-2, [REDACTED]	55-08-00N 27-14-00E	UR 0168-9	SA-2, link			
59	Postavy MRBM Complex SAM Site C27-2, [REDACTED]	55-07-00N 26-14-00E	UR 0168-8	SA-2, link			
60	Postavy MRBM Complex SAM Site C22-2, [REDACTED]	54-54-20N 26-36-40E	UR 0168-9	SA-2, fan			
	[REDACTED]						
J Disna and Polotsk MRBM Complexes SAM Defenses (in defense of Disna and Polotsk MRBM Complexes)							
61	Disna SAM Site A21-2, [REDACTED]	55-45-40N 27-55-50E	UR 0168-14	SA-2, link			[REDACTED]
62	Borkovichi MRBM Complex SAM Site B08-2, [REDACTED]	55-54-20N 26-38-20E	UR 0168-5	SA-2, link			
63	Polotsk SAM Support Facility, [REDACTED]	55-32-35N 28-42-30E	UR 0168-5	Type II (square)			
64	Polotsk SAM Site D24-2, [REDACTED]	55-12-38N 27-58-35E	UR 0168-4	SA-2, link			
K Borisov SAM Defenses (in defense of Borisov: extensive military installations, transportation center, rail yards and shops, and light industry)							
92	Borisov SAM Site A34-2, [REDACTED]	54-20-00N 28-22-30E	UR 0168-15	SA-2, configuration undetermined			[REDACTED]
L Minsk SAM Defenses (in defense of major industrial and military center: radio, machine and tool, tractor, auto, bearing plants and minor industries; Minsk/Machulishche long-range bomber base [REDACTED])							
65	Minsk SAM Site B26-2, [REDACTED]	53-54-50N 27-10-45E	UR 0168-14	SA-2, link			[REDACTED]
66	Minsk SAM Site A01-2, [REDACTED]	54-00-55N 27-34-25E	UR 0168-14	SA-2, link			
67	Minsk SAM Support Facility, [REDACTED]	53-54-50N 27-40-40E	UR 0168-14	Type I (rectangular)			
68	Minsk SAM Site B10-2, [REDACTED]	53-52-40N 27-55-10E	UR 0168-14	SA-2, link			
69	Minsk SAM Site A12-2, [REDACTED]	53-49-50N 27-45-10E	UR 0168-14	SA-2, link			
70	Minsk SAM Site A17-2, [REDACTED]	53-45-50N 27-38-00E	UR 0168-14	SA-2, link			
93	Minsk SAM Site B32-2, [REDACTED]	54-05-00N 27-15-30E	UR 0168-14	SA-2, link			
	[REDACTED]						
M Novaya Mezinovka SAM Defenses (in defense of Novaya Mezinovka Regional Military Storage Installation)							
71	Minsk SAM Site D28-2, [REDACTED]	53-43-30N 26-33-45E	UR 0168-14	SA-2, fan			This facility was previously named Novaya Mezinovka SAM Support Facility.
72	Baranovichi SAM Support Facility, [REDACTED]	53-31-40N 26-56-40E	UR 0168-19	Type II (square)			
73	Baranovichi SAM Site C05-2, [REDACTED]	53-25-40N 26-33-40E	UR 0168-14	SA-2, link			
N Gresk MRBM Complex SAM Defenses (in defense of Gresk MRBM Complex)							
74	Slutek SAM Site B38-2, [REDACTED]	53-13-30N 27-31-00E	UR 0168-19	SA-2, link			This site is located in a military training area.
75	Urechye SAM Site A13-2, [REDACTED]	52-55-40N 27-55-15E	UR 0168-19	SA-2, link			
O Kozhanovichi MRBM Complex SAM Defenses (in defense of Kozhanovichi MRBM Complex)							
76	Kozhanovichi SAM Site A28-2, [REDACTED]	52-13-20N 27-38-30E	UR 0168-24	SA-2, link			[REDACTED]
77	Kozhanovichi SAM Site B13-2, [REDACTED]	52-07-00N 28-06-10E	UR 0168-24	SA-2, link			
P Bobruysk SAM Defenses [REDACTED] a large military airfield, rail yards and shops, and numerous light industries)							
94	Bobruysk SAM Site A27-2, [REDACTED]	53-06-10N 29-08-40E	UR 0168-20	SA-2, configuration undetermined			[REDACTED]

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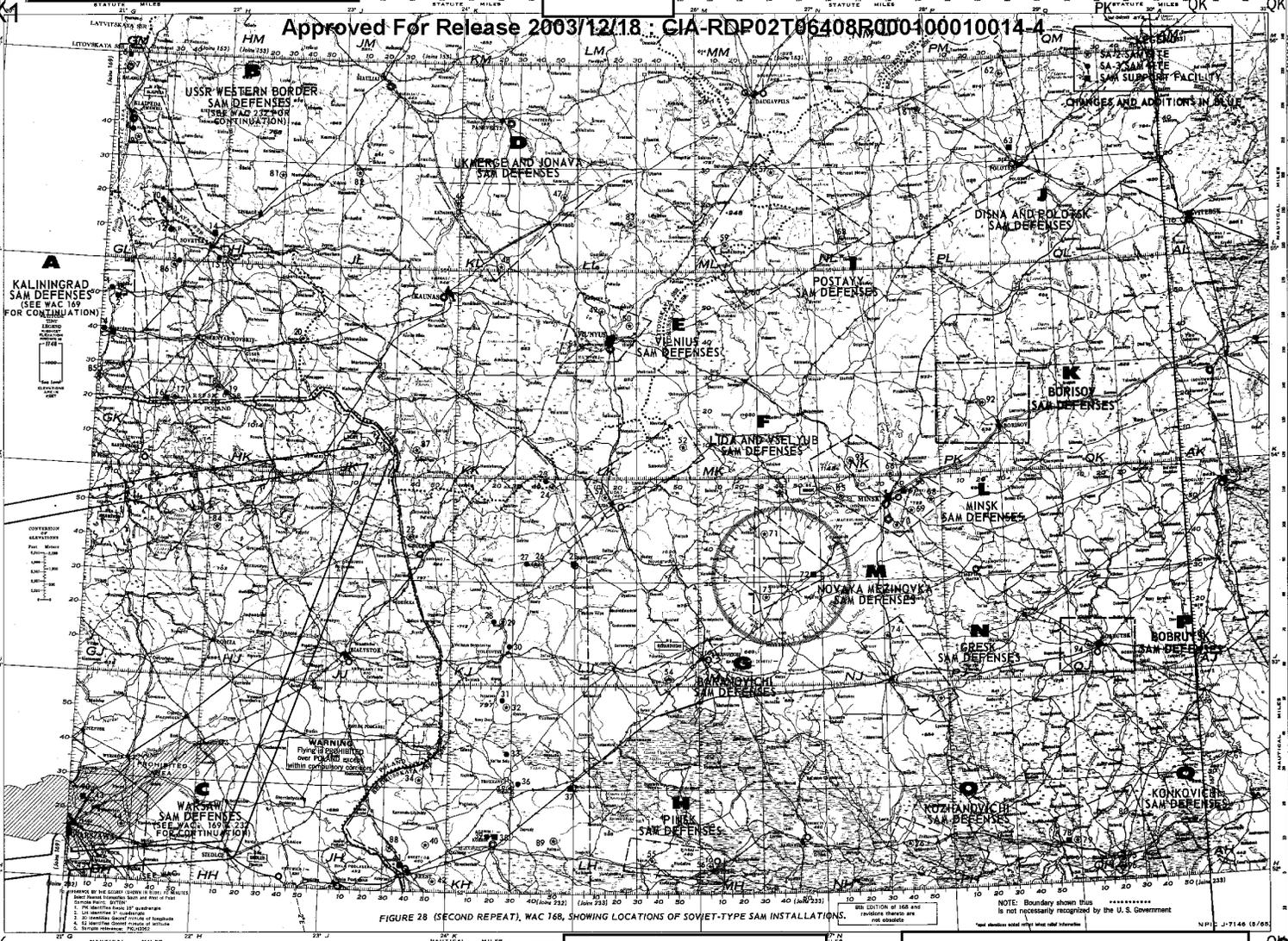


FIGURE 28 (SECOND REPEAT), WAC 168, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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NEMAN RIVER (168)
POLAND-USSR

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Table 25. SAM Installations on WAC 168 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
Q Konkovichi SAM Defenses (in defense of Konkovichi MRBM Complex)							
78	Kalinkovichi SAM Support Facility	52-11-20N 28-55-20E	UR 0168-25	Type II (square)			
79	Kalinkovichi SAM Site B29-2,	52-11-45N 28-57-40E	UR 0168-25	SA-2, link			
80	Kalinkovichi SAM Site A02-2,	52-17-00N 29-24-30E	UR 0168-25	SA-2, link			
95	Kalinkovichi SAM Site A16-2,	52-06-40N 29-20-00E	UR 0168-25	SA-2, configuration undetermined			
96	Kalinkovichi SAM Site A17-2,	52-06-30N 29-19-50E	UR 0168-25	SA-2, configuration undetermined			This is a probable training site.
R Defensive Role Undetermined							
81	Taurage SAM Site B04-2,	52-26-00N 22-22-55E	UR 0168-1	SA-2, link			
82	Raseiniai SAM Site A01-	55-27-30N 23-08-30E	UR 0168-2	SA-2, link			
83	Vilnius SAM Site D02-2,	55-13-15N 25-27-00E	UR 0168-3	SA-2, link			
84	Orzysz SAM Site A14-2,	53-43-45N 22-04-25E	PO 0168-11	SA-2, link			This is a probable training site.

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Table 26. SAM Installations on WAC 169 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
C Kolobrzeg SAM Defenses (in defense of Kolobrzeg, a town complex on the Baltic Sea; a large military airfield, military barracks areas, and port facilities)							
45	Kolobrzeg Possible SAM Site	54-11-45N 15-39-40E	PO 0169-13	SA-2, configuration undetermined			
D Gdynia/Gdansk (Poland) SAM Defenses (in defense of the ports of Gdynia and Gdansk. These sites may represent the beginning of a barrier defense along the Baltic coast of Poland)							
20	Gdansk SAM Site C34-2	54-41-45N 18-25-00E	PO 0169-9	SA-2, probable fan			
21	Gdansk SAM Site B03-2	54-37-00N 18-48-40E	PO 0169-9	SA-2, fan			
22	Gdansk SAM Site A11-2	54-21-20N 18-49-00E	PO 0169-14	SA-2, fan			
46	Gdansk SAM Site B31-2	54-53-10N 18-10-10E	PO 0169-9	SA-2, fan			
47	Gdansk SAM Support Facility	54-31-30N 18-17-00E	PO 0169-9	Type II (square)			
48	Gdansk SAM Site B29-2	54-16-00N 18-19-30E	PO 0169-14	SA-2, fan			
E Poznan SAM Defenses (in Defense of Poznan: a major industrial center including production facilities for machine tools, batteries, rubber products, chemicals, and heavy equipment; rail shops and a rail car repair plant; and 2 large military airfields)							
49	Poznan SAM Site B33-2	52-34-30N 16-44-00E	PO 0169-23	SA-2, fan			
50	Poznan SAM Site B35-2	52-20-00N 16-39-15E	PO 0169-23	SA-2, fan			
51	Poznan Possible SA-8 Site	52-19-59N 16-39-15E	PO 0169-23	SA-8, see remarks			Four possible SA-8 launch revetments are immediately south of the perimeter service road of Poznan SAM Site B25-2. No configuration can be determined for their arrangement, however.
52	Poznan SAM Site A16-2	52-15-05N 17-02-10E	PO 0169-23	SA-2, configuration undetermined			
53	Poznan SAM Support Facility	52-29-50N 16-58-10E	PO 0169-23	Probable Type II (square)			
54	Poznan SAM Site A03-2	52-32-00N 17-02-10E	PO 0169-23	SA-2, fan			
F Kaliningrad SAM Defenses (in defense of strategic rail and water transportation routes; military supply depots, training bases, and garrisons; shipbuilding and railroad stock manufacturing; and MRBM complexes.)							
23	Kaliningrad SAM Site C32-3	54-56-10N 20-02-35E	UR 0169-10	SA-3, probable configuration I			
24	Kaliningrad SAM Site B30-2	54-50-00N 20-03-00E	UR 0169-10	SA-2, link			
25	Kaliningrad SAM Support Facility	54-44-48N 20-04-15E	UR 0169-10	Type I (rectangular)			
26	Kaliningrad SAM Site B28-2	54-43-58N 19-58-00E	UR 0169-10	SA-2, link			
27	Kaliningrad SAM Site C27-3	54-39-50N 19-54-00E	UR 0169-10	SA-3, configuration F			
28	Kaliningrad SAM Site C26-2	54-34-55N 19-49-30E	UR 0169-10	SA-2, link			
29	Kaliningrad SAM Site B02-3	54-53-45N 20-33-40E	UR 0169-10	SA-3, configuration G			
30	Kaliningrad SAM Site B02-2	54-53-20N 20-33-25E	UR 0169-10	SA-2, star			
31	Kaliningrad SAM Site A06-2	54-44-20N 20-32-30E	UR 0169-10	SA-2, configuration undetermined			This is a possible training site.
32	Kaliningrad SAM Site A12-2	54-40-45N 20-38-45E	UR 0169-10	SA-2, link			
33	Kaliningrad SAM Site B21-2	54-32-35N 20-19-02E	UR 0169-10	SA-2, link			
34	Kaliningrad SAM Site B21-3	54-27-25N 20-16-30E	UR 0169-10	SA-3, probable configuration F			
35	Kaliningrad SAM Site C13-3	54-28-25N 20-59-59E	UR 0169-10	SA-3, probable configuration F			
36	Kaliningrad SAM Site C11-3	54-26-30N 21-02-30E	UR 0169-10	SA-3, probable configuration F			This site is precisely on the meridian between 2 WACs and at various times in the past it has been carried on both. Presently it is item 85 on WAC 168.
55	Kaliningrad SAM Support Facility 3	54-44-10N 20-32-35E	UR 0169-10	Type I (rectangular)			This facility is adjacent to Kaliningrad SAM Site A06-2, and may be related to the possible training function of this site.

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Table 26. SAM Installations on WAC 169 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears†	Mission & Date Installation Negated†	Remarks
<p>Warsaw (Poland) SAM Defenses (in defense of Polish capital; industrial, military, and governmental control center of Poland)</p>							
37	Warsaw SAM Site C35-2, [redacted]	52-35-10N 20-51-00E	PO 0169-25	SA-2, fan	[redacted]		
38	Warsaw SAM Site B31-2, [redacted]	52-21-45N 20-44-00E	PO 0169-25	SA-2, fan			
39	Warsaw SAM Site C27-2, [redacted]	52-12-10N 20-21-50E	PO 0169-25	SA-2, fan			
40	Warsaw SAM Site B23-2, [redacted]	52-06-30N 20-48-25E	PO 0169-25	SA-2, fan			
41	Warsaw SAM Support Facility, [redacted]	52-04-15N 20-40-40E	PO 0169-25	Type I (rectangular)	[redacted]		On [redacted] there were 6 warehouse-type buildings adjacent to the eastern side of this facility. [redacted] revealed that the 6 buildings had been replaced by 2 larger buildings, both served by a common apron. A loop turn-around had been added.

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Table 28. SAM Installations on WAC 194

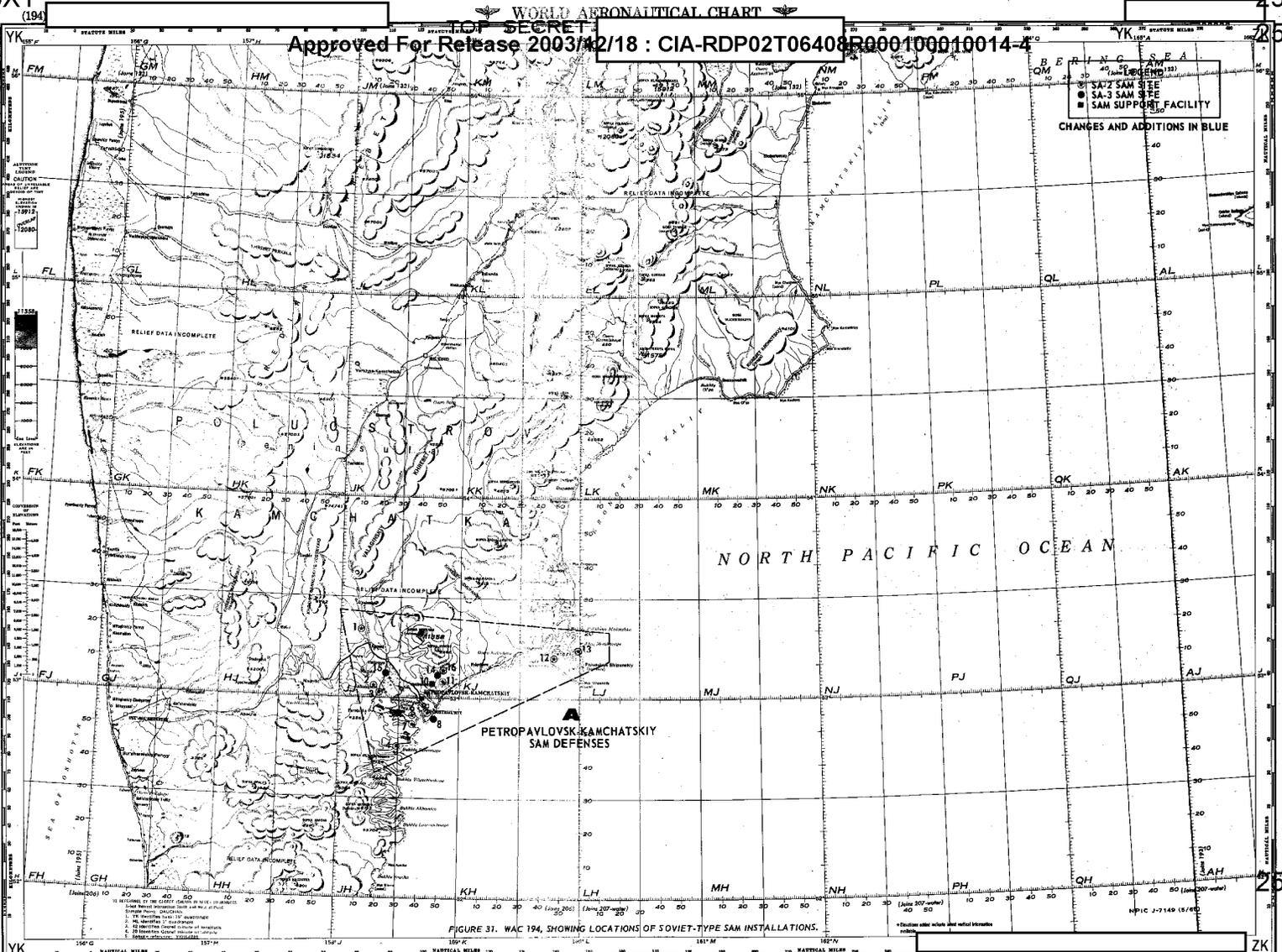
Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
▲ Petropavlovsk-Kamchatskiy SAM Defenses (in defense of major submarine base, ship repair yards, government and military control headquarters)							
1	Petropavlovsk-Kamchatskiy SAM Site C82-2, [redacted]	53-20-00N 158-10-40E	UR 0194-17	SA-2, configuration undetermined	[redacted]	[redacted]	This unvetted site is collocated with Petropavlovsk SAM Site B28-2. It was previously carried as a Category 2, SA-0 SAM Site.
2	Petropavlovsk-Kamchatskiy SAM Site B28A-2, [redacted]	53-02-40N 158-18-00E	UR 0194-17	SA-2, configuration undetermined			
3	Petropavlovsk-Kamchatskiy SAM Site B28-2, [redacted]	53-02-45N 158-18-20E	UR 0194-17	SA-2, star			
4	Petropavlovsk-Kamchatskiy SAM Site B21-2, [redacted]	52-45-28N 158-29-00E	UR 0194-22	SA-2, configuration undetermined			
5	Petropavlovsk-Kamchatskiy SAM Site [redacted]	52-55-15N 158-30-10E	UR 0194-17	SA-2, configuration undetermined			
6	Petropavlovsk-Kamchatskiy SAM Site A20-2, [redacted]	52-54-20N 158-37-30E	UR 0194-17	SA-2, probable link			
7	Petropavlovsk-Kamchatskiy SAM Site A20A-2, [redacted]	52-52-40N 158-37-00E	UR 0194-17	SA-2, link			
8	Petropavlovsk-Kamchatskiy SAM Site A18-3, [redacted]	52-55-10N 158-45-20E	UR 0194-17	SA-2, configuration undetermined			
9	Petropavlovsk-Kamchatskiy SAM Site A18-2, [redacted]	52-55-20N 158-45-20E	UR 0194-17	SA-2, star			
10	Petropavlovsk-Kamchatskiy SAM Support Facility [redacted]	53-04-00N 158-48-00E	UR 0194-17	Type I (rectangular)			
11	Petropavlovsk-Kamchatskiy SAM Site A06-2, [redacted]	53-05-45N 158-51-30E	UR 0194-17	SA-2, star			
12	Mys Shipunskiy SAM Site B81-2, [redacted]	53-12-48N 159-46-30E	UR 0194-18	SA-2, configuration undetermined			
13	Mys Shipunskiy SAM Site A86-2, [redacted]	52-14-55N 159-59-58E	UR 0194-18	SA-2, configuration undetermined			
14	Petropavlovsk-Kamchatskiy SAM Site A08-3, [redacted]	53-05-40N 158-51-25E	UR 0194-17	SA-2, configuration undetermined			
15	Petropavlovsk-Kamchatskiy SAM Site B30-3, [redacted]	53-08-25N 158-28-05E	UR 0194-17	SA-2, configuration C			
16	Petropavlovsk-Kamchatskiy SAM Site B07-2, [redacted]	53-07-10N 158-32-00E	UR 0194-17	SA-2, configuration undetermined			

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KRONOTSKIY GULF (194)
RAJAP, USSR.

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Table 29. SAM Installations on WAC 196

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
<p>Note - Installations whose defensive role cannot be determined and which are not located within the limits of a SAM defense area are found under subheading B - "Defensive Role Undetermined."</p>							
<p>A Nikolayevsk-Na-Amuro SAM Defenses (in defense of Nikolayevsk-Na-Amuro: major shipbuilding and repair center, and port facilities)</p>							
1	Nikolayevsk SAM Site A02-2, [redacted]	53-10-10N 140-44-45E	UR 0196-17	SA-2, link	[redacted]		
2	Nikolayevsk SAM Support Fac [redacted]	53-07-26N 140-52-16E	UR 0196-17	Type II (square)	[redacted]		
3	Nikolayevsk SAM Site B11-2, [redacted]	53-08-10N 141-14-00E	UR 0196-17	SA-2, link	[redacted]		
4	Nikolayevsk SAM Site C14-2, [redacted]	52-50-52N 141-13-30E	UR 0196-17	SA-2, link	[redacted]		
<p>B Defensive Role Undetermined</p>							
5	Okha SAM Site A08-2 [redacted]	58-36-00N 143-02-00E	UR 0196-18	SA-2, fan	[redacted]		

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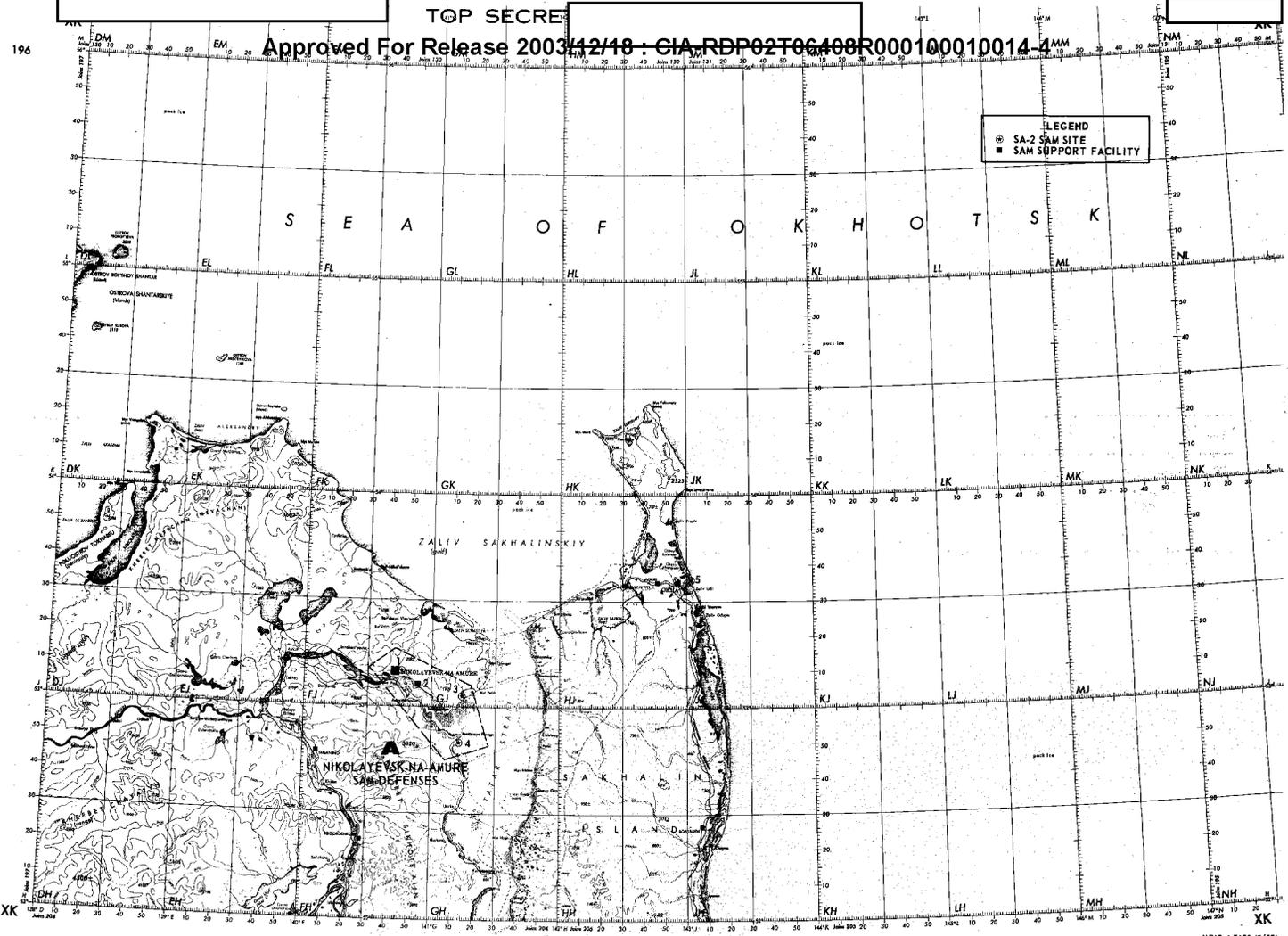
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SAKHALINSKIY GULF
LEFAR, USSR
196

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Table 30. SAM Installations on WAC 198

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
1	Svobodnyy ICBM Complex SAM Site B01-2, [redacted]	52-07-30N 128-17-00E	UR 0198-25	SA-2, configuration undetermined	[redacted]		

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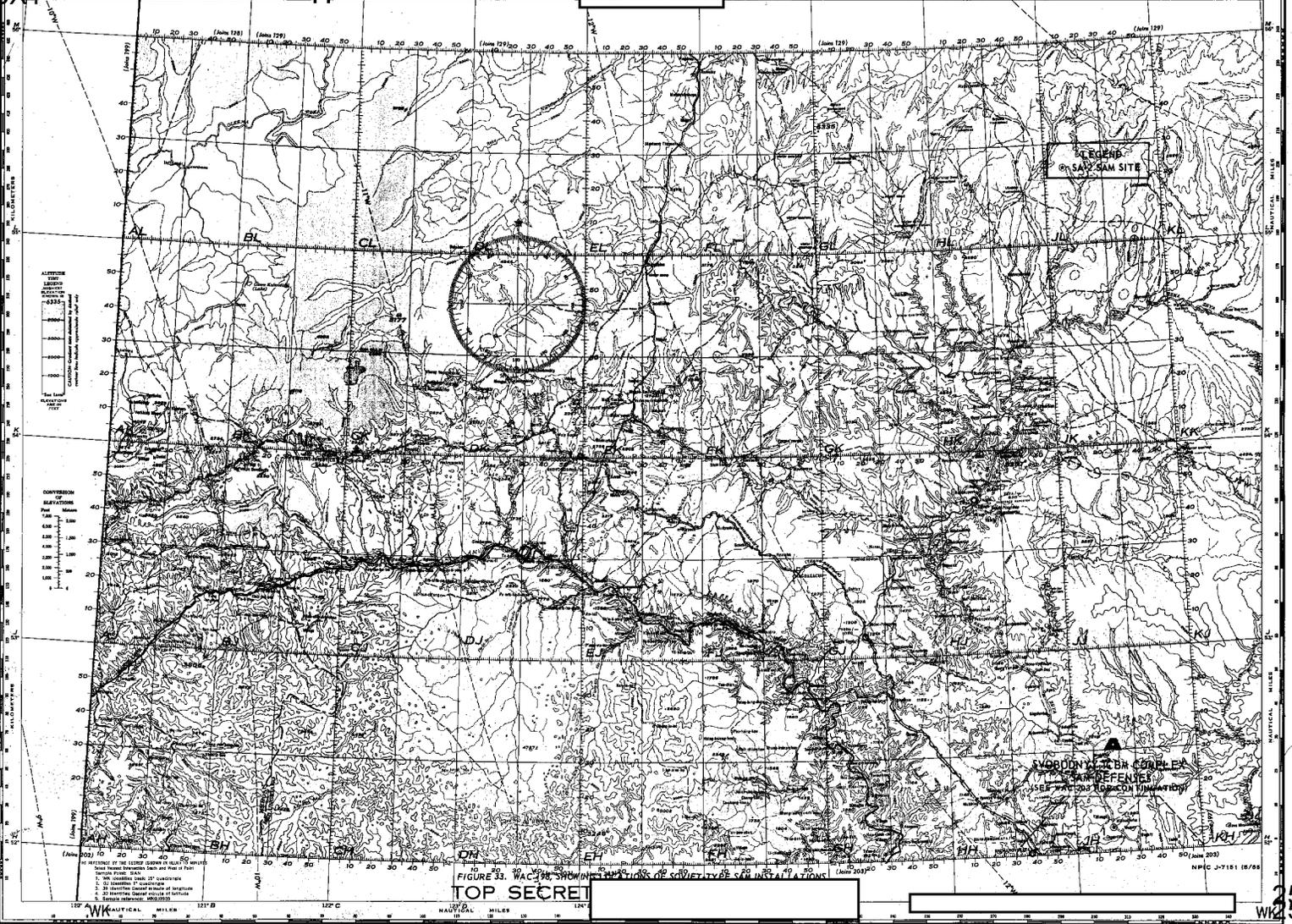


FIGURE 33. WAC 396 SHOWING LOCATIONS OF SOMETIMELY SENSITIVE INSTALLATIONS

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Table 31. SAM Installations on WAC 199

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
A Chita SAM Defenses (in defense of Chita: population center, government and military control center)							
1	Chita SAM Support Facility, [redacted]	53-04-18N 118-30-00E	UR 0199-22	Type II (square)			
2	Chita SAM Site B02-2, [redacted]	52-12-50N 118-32-40E	UR 0199-22	SA-2, link			
B Unidentified Surface-to-Air Type Missile Activity							
3	Antipinskoye SAM-type Activity	52-53-00N 118-32-00E	UR AMS N508, Sheet NN49-12, Edition 1-AMS	Unidentified, generally circular			This unidentified activity actually began to appear at the time of [redacted] although the supporting area was present on [redacted]. The activity consists of three cleared areas, which on later coverage, [redacted] contained SAM launch sites of an unknown type, and the support area located several miles to the west of the cleared areas. This may be an B & D facility.

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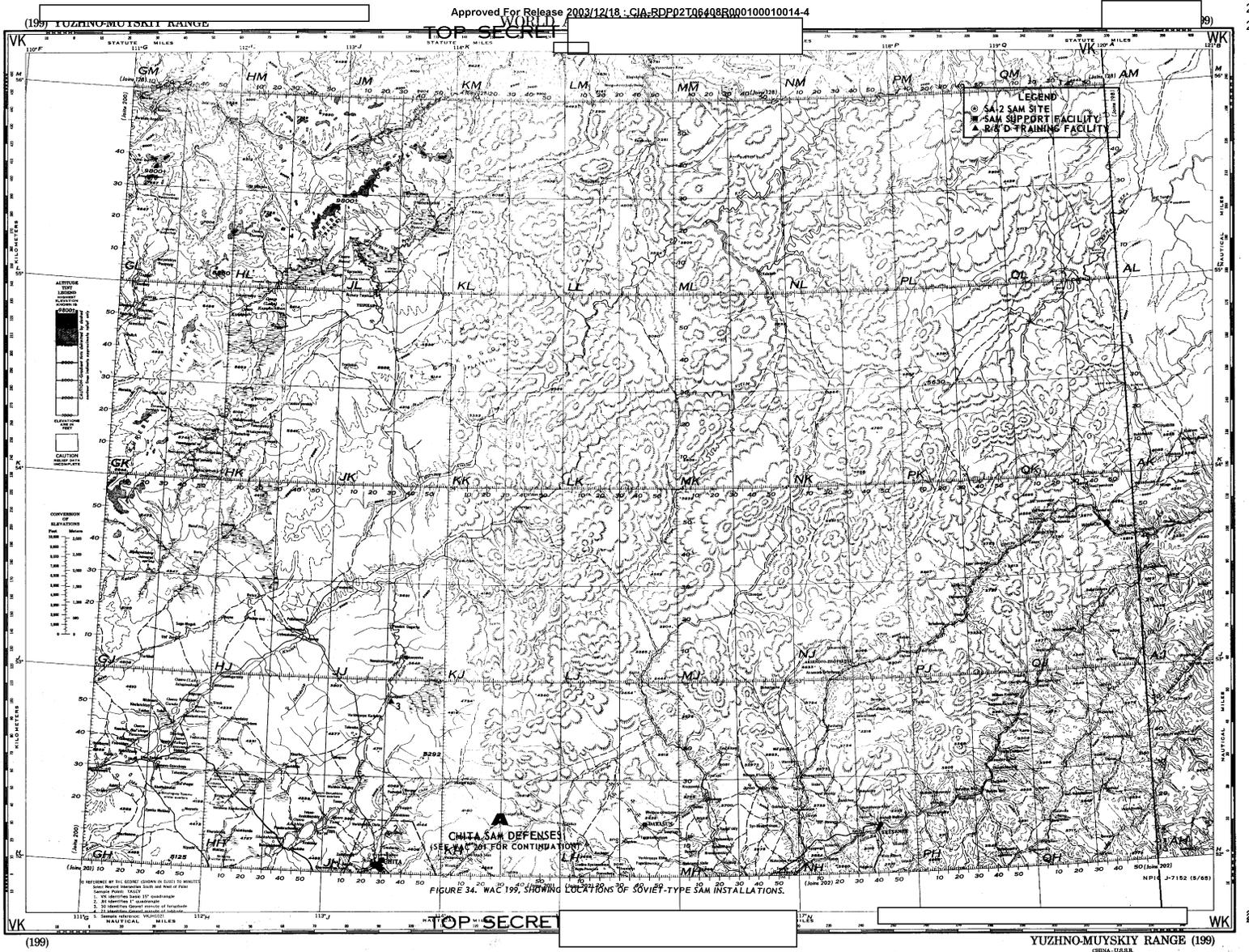


Table 32. SAM Installations on WAC 200

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated†	Remarks
A Chermkhovo SAM Defenses (in defense of Belaya Airfield--medium bomber base)							
1	Chermkhovo SAM Site C10-2, [redacted]	53-07-15N 103-49-00E	UR 0200-16	SA-2, link	[redacted]		
2	Chermkhovo SAM Site B18-2, [redacted]	52-49-45N 103-07-30E	UR 0200-16	SA-2, link			
B Irkutsk/Angarsk SAM Defenses (in defense of Irkutsk: population center, government control center, air defense headquarters, and power facilities; and Angarsk: POL refineries, POL storage, and power facilities)							
3	Angarsk SAM Site B36-2, [redacted]	52-48-40N 103-51-20E	UR 0200-17	SA-2, link	[redacted]		
4	Angarsk SAM Site B32-2, [redacted]	52-41-30N 103-26-50E	UR 0200-21	SA-2, link			
5	Angarsk SAM Site B36-2, [redacted]	52-27-50N 103-30-50E	UR 0200-21	SA-2, link			
6	Irkutsk SAM Site B26-2, [redacted]	52-10-00N 103-41-00E	UR 0200-21	SA-2, link			
7	Irkutsk SAM Site B23-2, [redacted]	52-04-10N 103-58-50E	UR 0200-22	SA-2, link			
8	Irkutsk SAM Site B19-2, [redacted]	52-02-15N 104-14-15E	UR 0200-22	SA-2, link			
9	Irkutsk SAM Site B13-2, [redacted]	52-10-20N 104-33-00E	UR 0200-22	SA-2, link			
10	Irkutsk SAM Site A18-2, [redacted]	52-09-50N 104-18-50E	UR 0200-22	SA-2, fan			
11	Irkutsk SAM Support Facility 2, [redacted]	52-14-20N 104-13-10E	UR 0200-22	Type I (rectangular)			
12	Irkutsk SAM Site A05-2, [redacted]	52-22-10N 104-27-00E	UR 0200-22	SA-2, link			
13	Irkutsk SAM Site B02-2, [redacted]	52-33-45N 104-23-30E	UR 0200-22	SA-2, probable link			
14	Irkutsk SAM Site B35-2, [redacted]	52-33-40N 104-11-45E	UR 0200-22	SA-2, link			
15	Angarsk SAM Support Facility, [redacted]	52-32-50N 104-04-20E	UR 0200-22	Type I (rectangular)			
16	Irkutsk SAM Support Facility 1, [redacted]	52-24-25N 103-59-10E	UR 0200-22	Type I (rectangular)			

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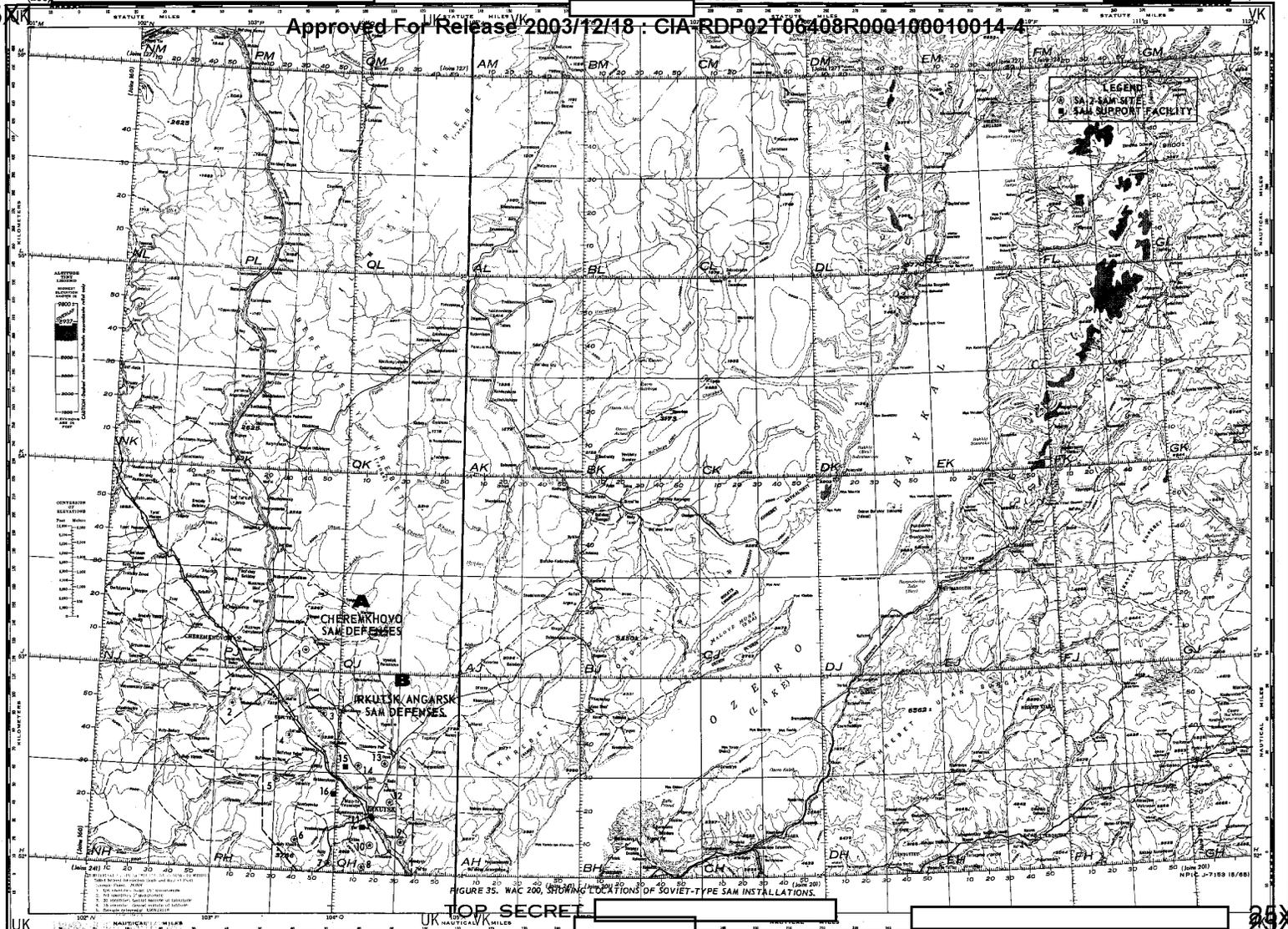


FIGURE 35. WAC 200. SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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LAKE BAYKAL (200)
R.A.F.R. USSR

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Table 33. SAM Installations on WAC 201

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
A Ulan-Ude SAM Defenses (in defense of Ulan-Ude: industrial, rail, and communications center, aircraft assembly plant, population center, government control center)							
1	Ulan-Ude SAM Site B24-2, [redacted]	51-43-30N 107-23-00E	UR 0201-1	SA-2, link	[redacted]		
2	Ulan-Ude SAM Site A35-2, [redacted]	51-54-20N 107-33-45E	UR 0201-1	SA-2, probable link			
3	Ulan-Ude SAM Support Facility, [redacted]	51-47-35N 107-39-40E	UR 0201-1	Type II (square)			
4	Ulan-Ude SAM Site C08-2, [redacted]	51-56-10N 108-11-30E	UR 0201-2	SA-2, probable link			
5	Ulan-Ude SAM Site B18-2, [redacted]	51-43-10N 107-53-40E	UR 0201-3	SA-2, configuration undetermined			
6	Ulan-Ude SAM Site B14-2, [redacted]	51-55-00N 113-41-00E	UR 0201-5	SA-2, star			
B Chita SAM Defenses (in defense of Chita: population center, government and military control center)							
C Drovyanaya ICBM Complex SAM Defenses (in defense of Drovyanaya ICBM Complex)							
8	Drovyanaya ICBM Complex SAM Site C26-2, [redacted]	51-22-35N 113-26-05E	UR 0201-4	SA-2, link			
7	Drovyanaya ICBM Complex SAM Site B14-2, [redacted]	51-17-30N 113-22-00E	UR 0201-5	SA-2, link			
D Defensive Role Undetermined							
9	Kyakhta SAM Site A19-2, [redacted]	50-20-10N 108-26-50E	UR 0201-11	SA-2, configuration undetermined			

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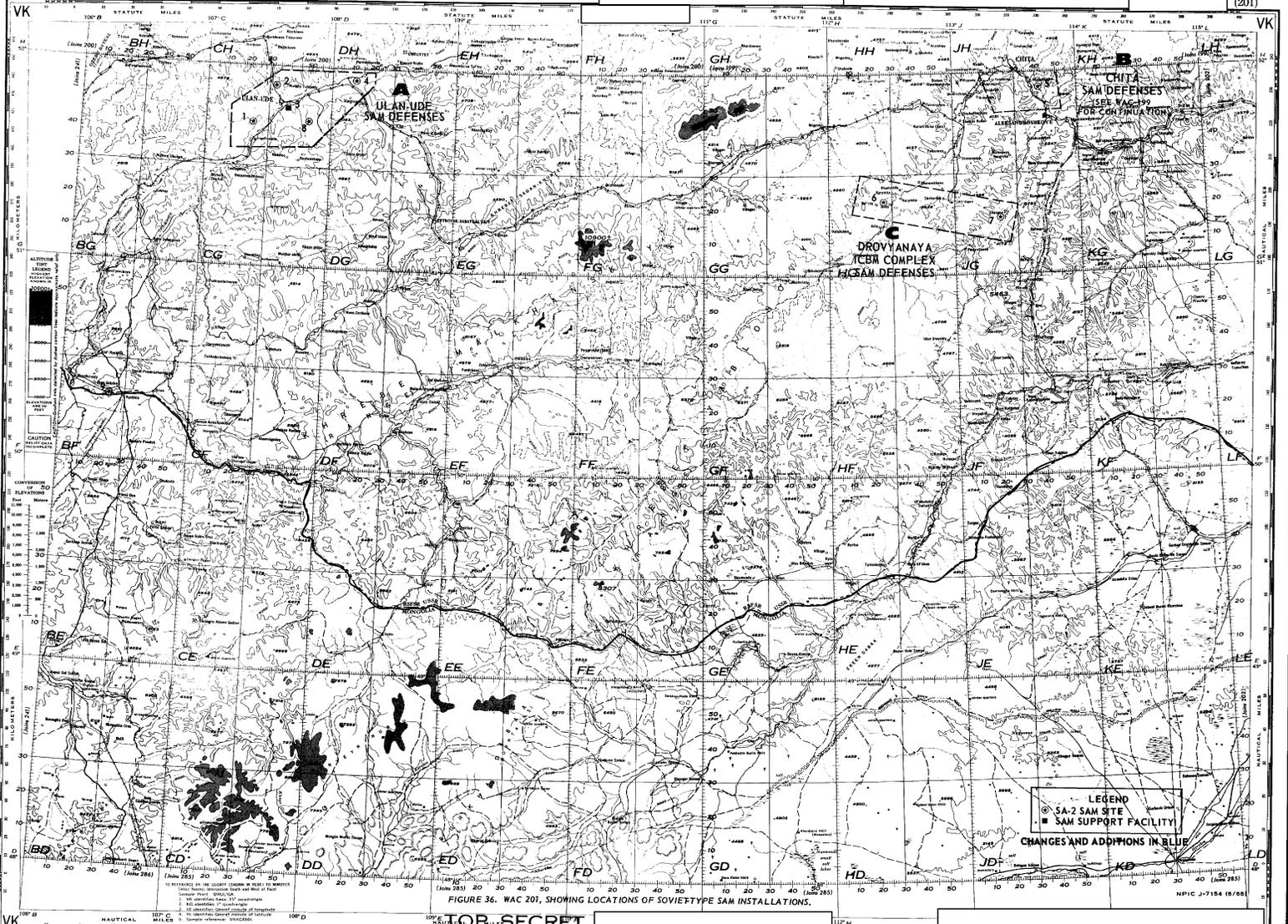
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INGODA RIVER (201)
MONGOLIA - U.S.S.R.

Table 34. SAM Installations on WAC 208

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
▲ Olovyannaya ICBM Complex SAM Defenses (in defense of Olovyannaya ICBM Complex)							
1	Olovyannaya SAM Site C03-2, [redacted]	51-18-30N 115-54-45E	UR 0202-1	SA-2, link			This is an unrevetted site.
2	Olovyannaya SAM Site B17-2, [redacted]	50-46-00N 115-41-30E	UR 0202-6	SA-2, probable link			
3	Khadabulak SAM Site A26-2, [redacted]	50-43-25N 115-58-40E	UR 0202-6	SA-2, configuration undetermined			
4	Khadabulak SAM Site A27-2, [redacted]	50-43-30N 116-04-20E	UR 0202-6	SA-2, configuration undetermined			
5	Khadabulak SAM Support Facility, [redacted]	50-43-00N 116-07-00E	UR 0202-6	Type II (square)			
6	Khadabulak SAM Site A07-2, [redacted]	50-46-00N 116-18-20E	UR 0202-6	SA-2, link			
7	Olovyannaya ICBM Complex SAM Site C07-2, [redacted]	51-08-20N 116-21-00E	UR 0202-6	SA-2, probable link			
8	Olovyannaya ICBM Complex SAM Site B08A-2, [redacted]	51-03-10N 116-20-40E	UR 0202-6	SA-2, configuration undetermined			

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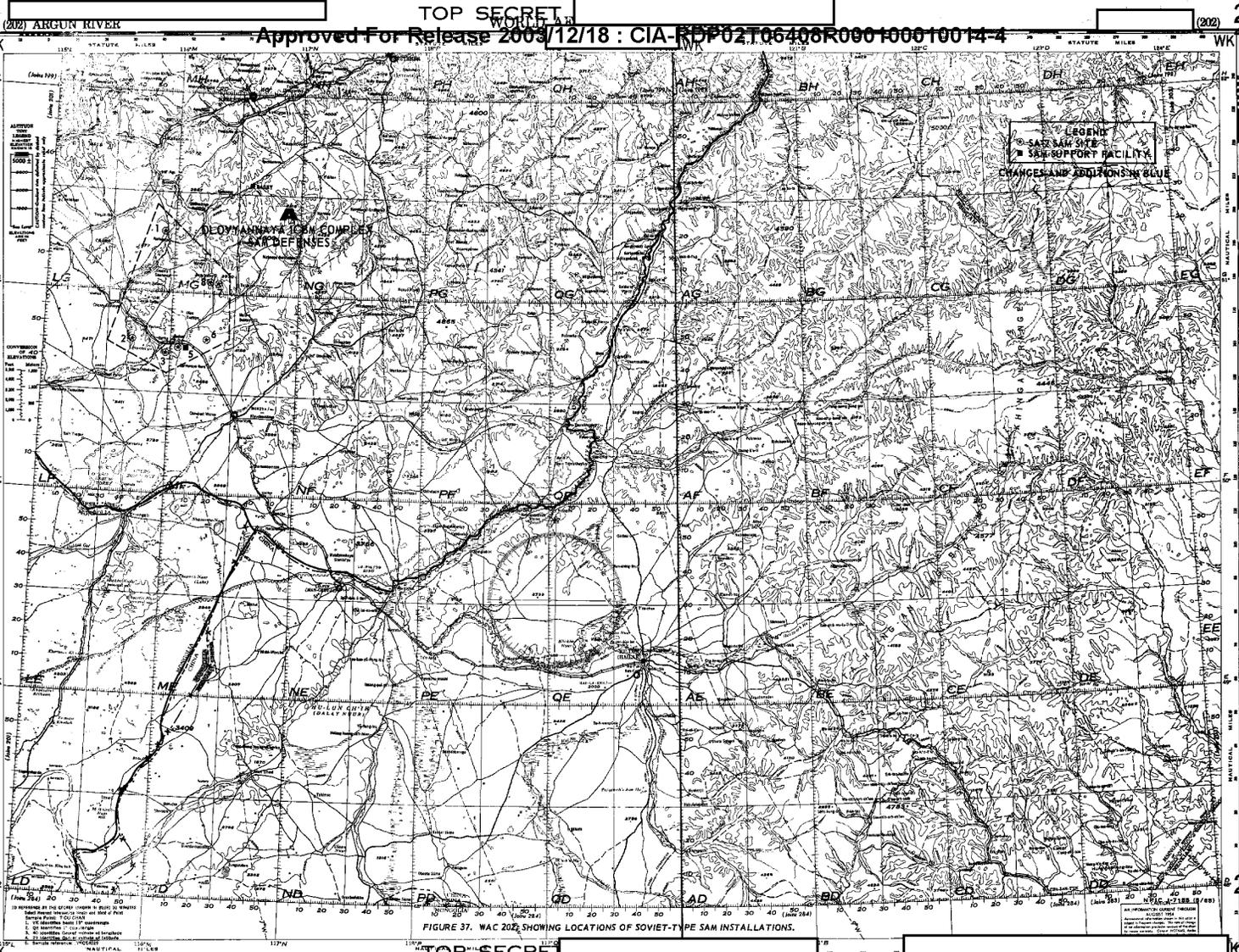
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Table 35. SAM Installations on WAC 203

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated†	Remarks
A Svbodnyy ICBM Complex SAM Defenses (in defense of Svbodnyy ICBM Complex)*							
1	Svbodnyy ICBM Complex SAM Site C29-2, [redacted]	51-58-00N 127-41-10E	UR 0203-3	SA-2, probable link			[redacted]
2	Svbodnyy ICBM Complex SAM Site B09-2, [redacted]	51-58-45N 128-45-05E	UR 0203-3	SA-2, skull			
B Malaya Sazanka SAM Defenses							
3	Malaya Sazanka SAM Site C38-2, [redacted]	51-30-20N 127-45-10E	UR 0203-3	SA-2, daisy			[redacted]
4	Malaya Sazanka SAM Site B38-2, [redacted]	51-28-40N 128-03-30E	UR 0203-3	SA-2, skull			
5	Malaya Sazanka SAM Site B28-2, [redacted]	51-13-40N 127-39-50E	UR 0203-2	SA-2, link			
6	Malaya Sazanka SAM Support Facility, [redacted]	51-15-10N 128-03-20E	UR 0203-3	Type I (rectangular)			
7	Malaya Sazanka SAM Site B23-2, [redacted]	51-01-50N 127-48-40E	UR 0203-3	SA-2, link			
16	Malaya Sazanka SAM Site A03-2, [redacted]	51-19-00N 128-09-20E	UR 0203-3	SA-2, fan			
C Ukraina Airfield SAM Defenses (in defense of Ukraina Airfield--heavy bomber base [redacted])							
8	Ukraina SAM Site C36-2, [redacted]	51-25-20N 128-29-00E	UR 0203-3	SA-2, fan			[redacted]
9	Ukraina SAM Support Facility, [redacted]	51-04-10N 128-20-20E	UR 0203-3	Type I (rectangular)			
10	Ukraina SAM Site B23-2, [redacted]	50-58-15N 128-18-05E	UR 0203-3	SA-2, skull			
11	Ukraina SAM Site B15-2, [redacted]	50-55-00N 128-43-40E	UR 0203-3	SA-2, fan			
12	Ukraina SAM Site B08-2, [redacted]	51-10-30N 128-52-00E	UR 0203-3	SA-2, fan			
D Birobidzhan SAM Defenses (defensive role has not been determined)							
13	Birobidzhan SAM Site C31-2, [redacted]	48-59-30N 132-27-10E	UR 0203-20	SA-2, probable link			[redacted]
14	Birobidzhan SAM Site A15-2, [redacted]	48-44-00N 132-58-00E	UR 0203-25	SA-2, link			
15	Birobidzhan SAM Support Facility	48-43-35N 132-58-20E	UR 0203-25	Type II (square)			

*Some elements of all three defense complexes are mutually supporting.

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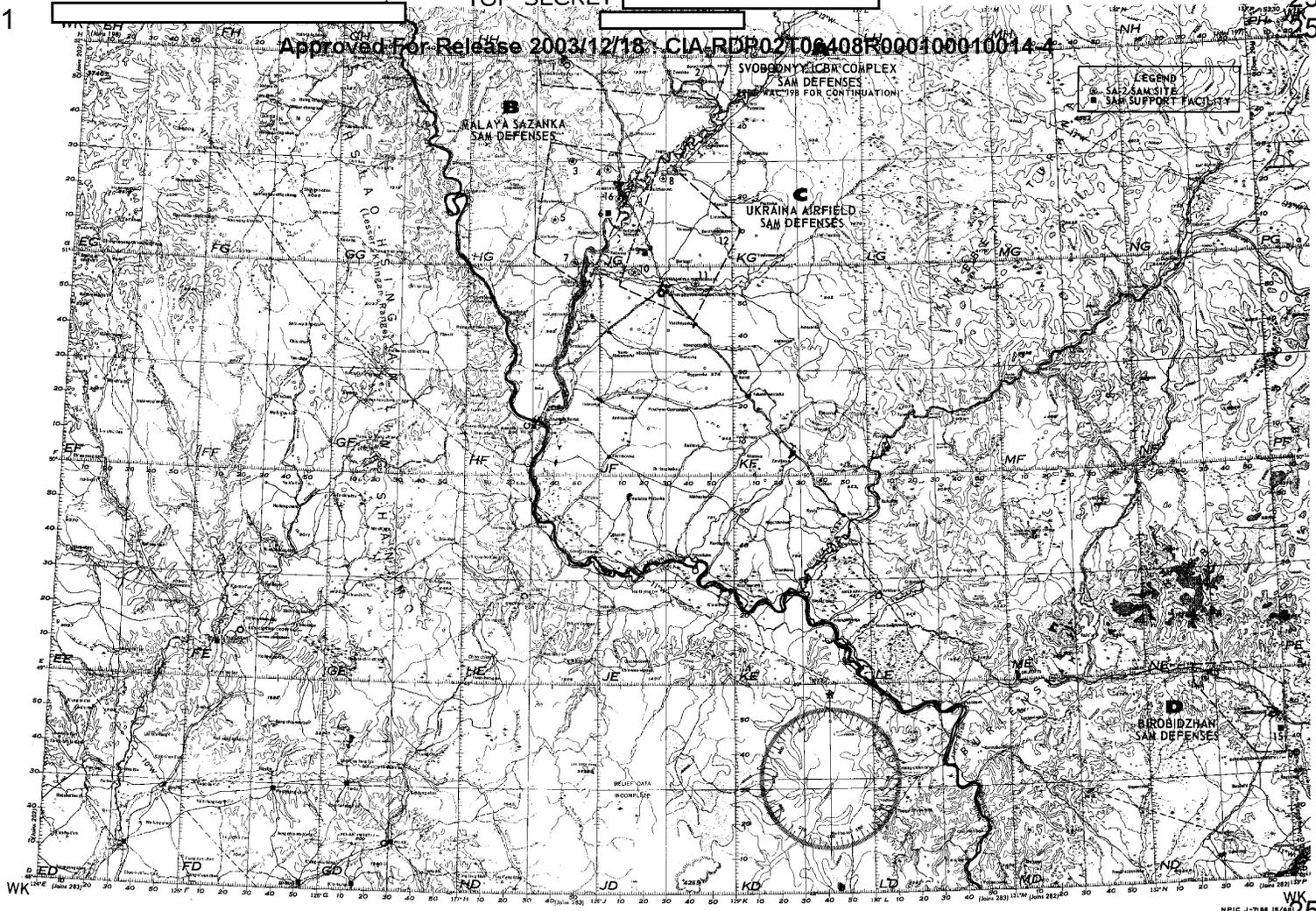
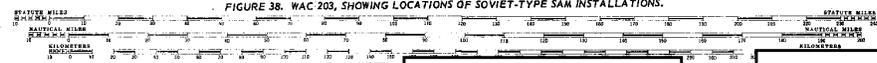


FIGURE 38. WAC 203, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.



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AMUR RIVER (203)
CHINA-U.S.S.R.

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Table 36. SAM Installations on WAC 204.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated‡	Remarks
A Khabarovsk SAM Defenses (in defense of Khabarovsk: industrial center, seaport, fighter and seaplane bases, shipyards, naval base [redacted] and headquarters for Soviet Far East Air Force)							
1	Khabarovsk SAM Site B19-2, [redacted]	48-10-45N 135-08-15E	UR 0204-22	SA-2, skull	[redacted]		
2	Khabarovsk SAM Site B24-2, [redacted]	48-19-20N 134-52-00E	UR 0204-22	SA-2, skull	[redacted]		
3	Khabarovsk SAM Support Facility, [redacted]	48-22-40N 135-09-00E	UR 0204-22	Type I (rectangular)	[redacted]		
4	Khabarovsk SAM Site A26-2, [redacted]	48-35-30N 135-09-00E	UR 0204-22	SA-2, skull	[redacted]		
5	Khabarovsk SAM Site B09-2, [redacted]	48-29-10N 135-29-35E	UR 0204-22	SA-2, skull	[redacted]		
B Komsomolsk SAM Defenses (in defense of Komsomolsk: major shipyard, aircraft plant, iron and steel plant, and air defense headquarters)							
6	Komsomolsk SAM Site B21-2, [redacted]	50-23-20N 136-54-50E	UR 0204-13	SA-2, probable link	[redacted]		
7	Komsomolsk SAM Site B22-2, [redacted]	50-25-00N 136-53-30E	UR 0204-5	SA-2, probable link	[redacted]		
8	Komsomolsk SAM Support Facility, [redacted]	50-23-30N 136-53-50E	UR 0204-5	Type I (rectangular)	[redacted]		
9	Komsomolsk SAM Site A33-2, [redacted]	50-41-20N 136-53-10E	UR 0204-5	SA-2, probable link	[redacted]		
10	Komsomolsk SAM Site B04-2, [redacted]	50-43-20N 137-11-30E	UR 0204-5	SA-2, probable fan	[redacted]		
11	Komsomolsk SAM Site B14-2, [redacted]	50-24-00N 137-22-00E	UR 0204-5	SA-2, probable link	[redacted]		
17	Komsomolsk SAM Site B18A-2, [redacted]	50-24-00N 137-26-50E	UR 0204-5	SA-2, configuration undetermined	[redacted]		
C Sovetskaya Gavan SAM Defenses (in defense of Sovetskaya Gavan: MRBM complex, large naval base, shipbuilding and repair facilities for Soviet Pacific fleet, port facilities, submarine base, and air defense headquarters)							
12	Sovetskaya Gavan SAM Site A01-2, [redacted]	49-10-50N 140-19-00E	UR 0204-20	SA-2, link	[redacted]		
13	Sovetskaya Gavan SAM Site A13-2, [redacted]	48-59-10N 140-22-40E	UR 0204-20	SA-2, link	[redacted]		
14	Sovetskaya Gavan SAM Support Facility, [redacted]	48-56-25N 140-12-20E	UR 0204-19	Type II (square)	[redacted]		
15	Sovetskaya Gavan SAM Site A25-2, [redacted]	48-56-30N 140-03-20E	UR 0204-20	SA-2, star	[redacted]		
16	Sovetskaya Gavan SAM Site B19-2, [redacted]	48-49-00N 140-13-45E	UR 0204-20	SA-2, link	[redacted]		

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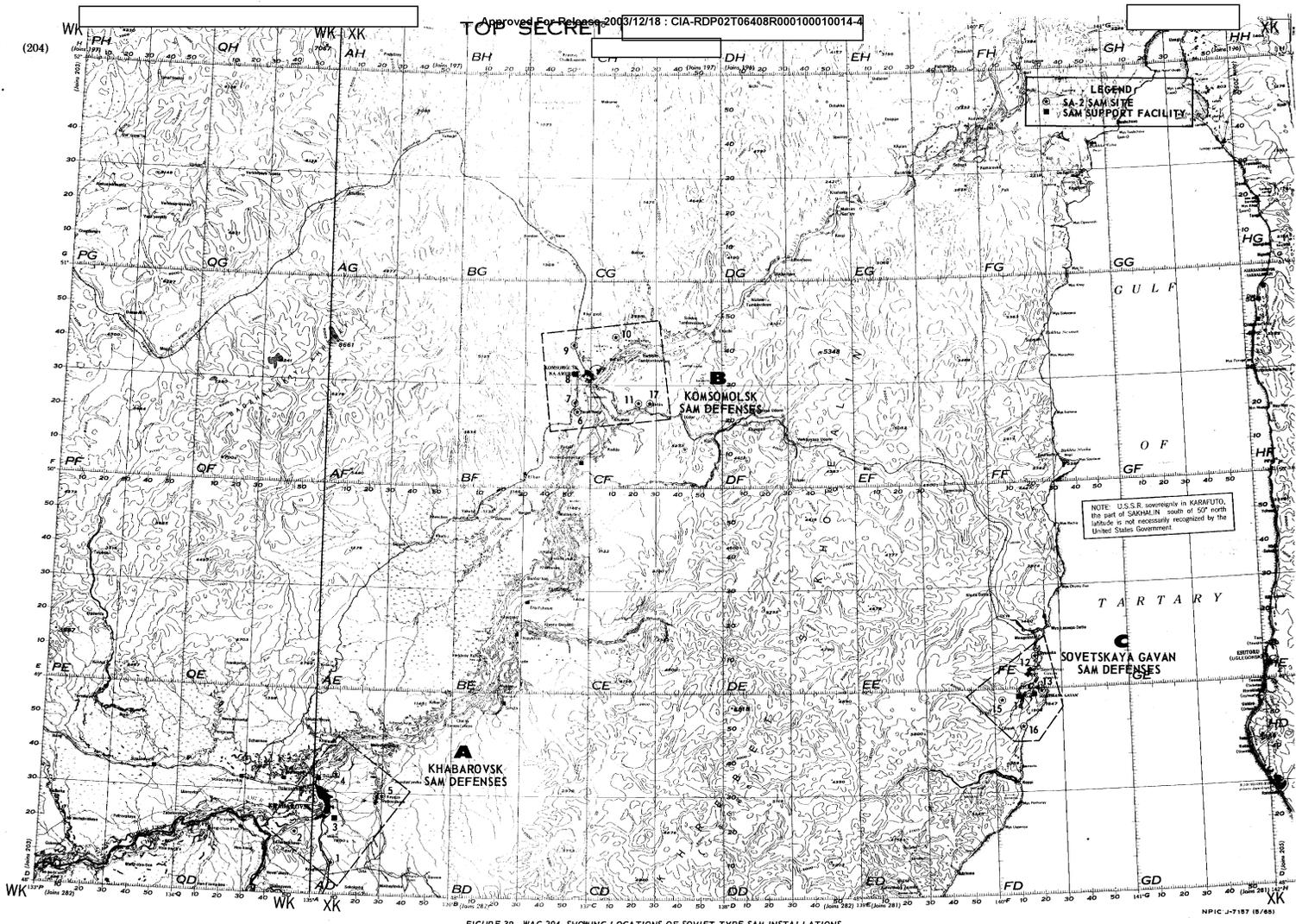
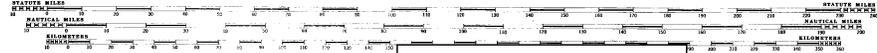


FIGURE 39. WAC 204, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.



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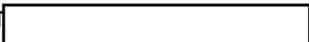
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Table 37. SAM Installations on WAC 205

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated ‡	Remarks
▲ Poronaysk SAM Defenses (defensive role has not been determined)							
1	Poronaysk SAM Site B32-2, [redacted]	49-24-25N 142-52-00E	UR 0205-16	SA-2, star	[redacted]		
2	Poronaysk SAM Site A22-2, [redacted]	49-06-35N 142-37-15E	UR 0205-16	SA-2, configuration undetermined	[redacted]		
3	Poronaysk SAM Site A20-2, [redacted]	49-16-40N 142-54-50E	UR 0205-16	SA-2, link	[redacted]		

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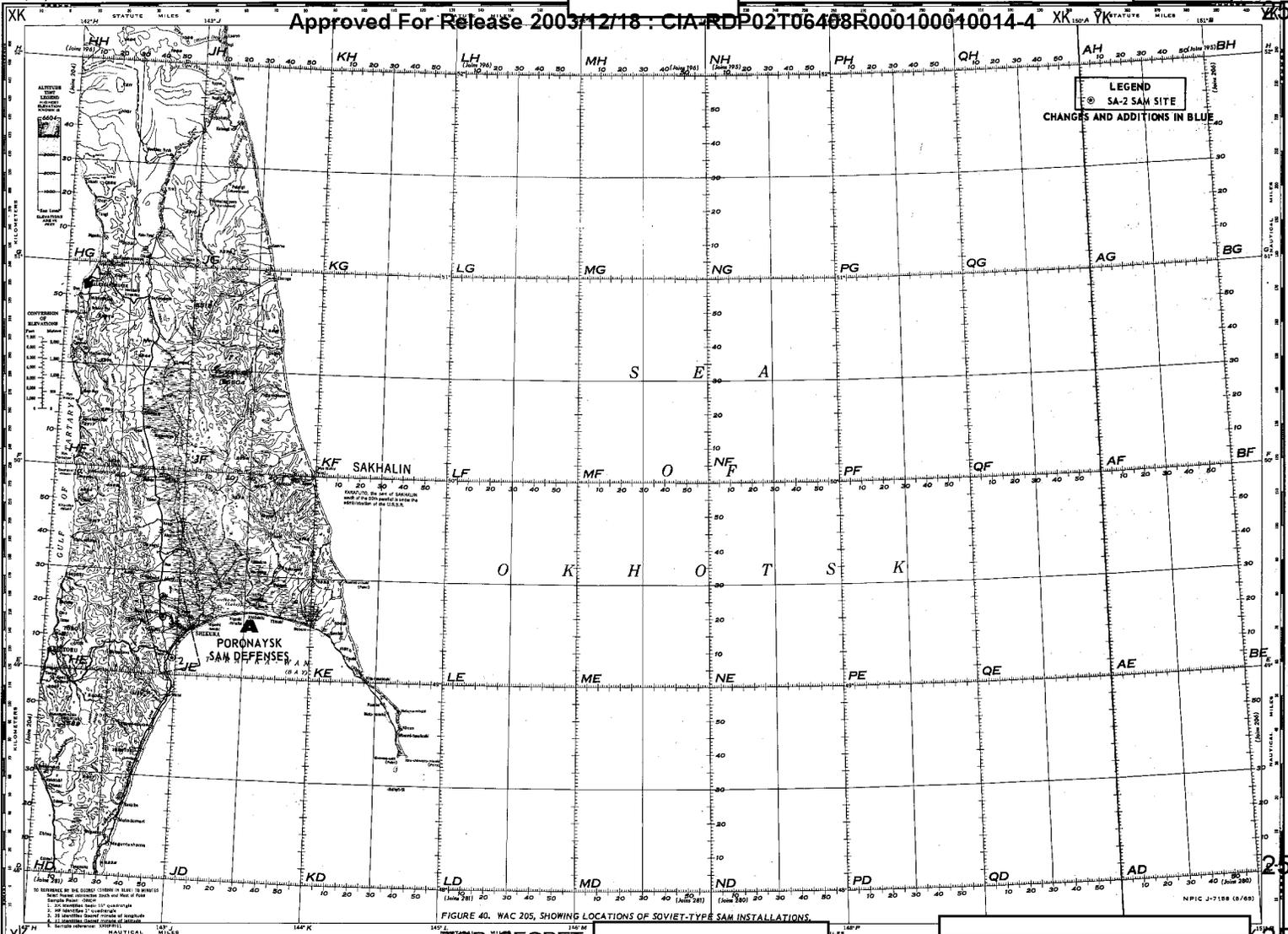
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TARAIIKA BAY (205) KAPAL-GARA

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Table 38. SAM Installations on WAC 231 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
D Czechoslovakian Western Border SAM Defenses (in defense of the western border of Czechoslovakia)							
12	Karlovy Vary SAM Site A11-2, [redacted]	50-13-00N 13-04-00E	CZ 0231-14	SA-2, configuration undetermined			[redacted]
13	Pizen SAM Site A21-2, [redacted]	49-36-20N 13-16-45E	CZ 0231-14	SA-2, probable link			
33	Pizen probable SAM Site	49-33-52N 13-41-30E	CZ 0231-19	SA-2, configuration undetermined			
E Prague (Czechoslovakia) SAM Defenses (in defense of Prague, capital of Czechoslovakia; governmental, industrial, and military center of Czechoslovakia)							
14	Prague SAM Site B29-2, [redacted]	50-10-25N 13-58-15E	CZ 0231-14	SA-2, fan			[redacted] This site is unrevetted.
15	Prague SAM Site C34-2, [redacted]	50-23-30N 14-12-00E	CZ 0231-14	SA-2, probable fan			
16	Prague SAM Site B03-2, [redacted]	50-20-20N 14-37-55E	CZ 0231-15	SA-2, probable fan			
17	Prague SAM Site C06-2, [redacted]	50-16-55N 14-58-55E	CZ 0231-15	SA-2, configuration undetermined			
18	Prague SAM Site B11-2, [redacted]	50-01-35N 14-51-20E	CZ 0231-15	SA-2, fan			
19	Prague SAM Site B16-2, [redacted]	49-52-00N 14-37-45E	CZ 0231-15	SA-2, probable fan			
20	Prague SAM Site B21-2, [redacted]	49-46-45N 14-13-50E	CZ 0231-15	SA-2, fan			
21	Prague SAM Site B25-2, [redacted]	49-58-00N 14-00-45E	CZ 0231-14	SA-2, fan			
22	Prague SAM Support Facility 2, [redacted]	50-01-20N 14-03-15E	CZ 0231-14	Type I (rectangular)			
34	Prague SAM Support Facility 1, [redacted]	50-13-28N 14-42-40E	CZ 0231-15	Type II (square)			
F Aslau (Poland) SAM Defenses (in defense of Aslau Airfield: a major Soviet airbase in Poland)							
23	Boleslawiec SAM Site A07-2, [redacted]	51-18-20N 15-44-55E	PO 0231-5	SA-2, link			[redacted]
35	Boleslawiec SAM Site B34-2, [redacted]	51-27-05N 15-23-07E	PO 0231-5	SA-2, configuration undetermined			

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Table 30. SAM Installations on WAC 232

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated?	Remarks
Note - Installations whose defensive role is unknown, and which do not fall within the confines of a SAM defense area are found under subheading J - "Defensive Role Undetermined."							
A Liegnitz (Poland) SAM Defenses (probably in defense of Liegnitz Airfield)							
1	Liegnitz SAM Site A28-2, [redacted]	51-11-50N 16-08-30E	PO 0232-6	SA-2, probable star			
B Brno (Czechoslovakia) SAM Defenses (in defense of major electronic, heavy industry, transportation, and military facilities)							
2	Brno SAM Site B35-2, [redacted]	49-23-30N 16-30-15E	CZ 0232-16	SA-2, configuration undetermined			
3	Brno SAM Site B26-2, [redacted]	49-09-25N 16-15-00E	CZ 0232-16	SA-2, configuration undetermined			
4	Brno SAM Support Facility, [redacted]	49-07-35N 16-24-00E	CZ 0232-16	Type I (rectangular)			This facility has been incorporated into an existing explosives storage area. It resembles the Type I facility more than the Type II.
5	Brno SAM Site B19-2, [redacted]	48-37-10N 16-35-15E	CZ 0232-16	SA-2, daisy			
6	Brno SAM Site B12-2, [redacted]	49-05-00N 16-57-35E	CZ 0232-16	SA-2, configuration undetermined			
C Bratislava (Czechoslovakia) SAM Defenses (in defense of major military center with important industrial facilities, including POL, explosives, wire and cable, and electrical engineering products)							
7	Bratislava SAM Support Facility, [redacted]	48-16-25N 17-19-30E	CZ 0232-21	Type I (rectangular)			
64	Bratislava SAM Site B35-2, [redacted]	48-20-05N 17-03-22E	CZ 0232-21	SA-2, fan			
D Ostrava (Czechoslovakia) SAM Defenses (in defense of important coal and iron ore mining, industrial center, metallurgical plants, chemical plant, and coke plant)							
8	Ostrava SAM Site B09-2, [redacted]	49-52-00N 18-35-30E	CZ 0232-12	SA-2, fan			
9	Ostrava SAM Site A16-2, [redacted]	49-41-10N 18-24-20E	CZ 0232-12	SA-2, fan			
10	Ostrava SAM Support Facility, [redacted]	49-39-30N 18-20-00E	CZ 0232-12	Type I (rectangular)			
11	Ostrava SAM Site B22-2, [redacted]	49-38-00N 18-02-30E	CZ 0232-12	SA-2, fan			
12	Ostrava SAM Site B26-2, [redacted]	49-47-00N 17-55-00E	CZ 0232-12	SA-2, fan			
13	Ostrava SAM Site B32-2, [redacted]	49-59-30N 18-00-00E	CZ 0232-12	SA-2, fan			
E Upper Silesian Basin (Poland) SAM Defenses (in defense of most important industrial complex in Poland)							
14	Chorzow SAM Site C28-2, [redacted]	50-11-20N 18-16-10E	PO 0232-13	SA-2, fan			
15	Chorzow SAM Site C29-2, [redacted]	50-27-00N 18-17-40E	PO 0232-7	SA-2, fan			
16	Chorzow SAM Support Facility 1, [redacted]	50-25-40N 18-32-30E	PO 0232-7	Type I (rectangular)			
17	Chorzow SAM Site C33-2, [redacted]	50-37-45N 18-37-30E	PO 0232-7	SA-2, fan			
18	Chorzow SAM Site B01-2, [redacted]	50-33-40N 19-01-05E	PO 0232-7	SA-2, fan			
19	Chorzow SAM Site B06-2, [redacted]	50-27-50N 19-21-54E	PO 0232-7	SA-2, fan			
20	Chorzow SAM Site C10-2, [redacted]	50-15-00N 19-30-00E	PO 0232-12	SA-2, fan			
21	Chorzow SAM Site B14-2, [redacted]	50-05-30N 19-16-40E	PO 0232-12	SA-2, fan			
22	Chorzow SAM Site B19-2, [redacted]	50-02-10N 19-54-40E	PO 0232-12	SA-2, fan			
53	Chorzow SAM Support Facility 2, [redacted]	50-16-21N 19-31-23E	PO 0232-12	Type undetermined			
F Miskolc (Hungary) SAM Defenses (in defense of major Hungarian iron and steel producing area, heavy industrial complex, and major transportation facilities)							
23	Miskolc SAM Site B04-2, [redacted]	48-14-00N 20-56-20E	HU 0232-23	SA-2, daisy			
24	Miskolc SAM Support Facility, [redacted]	48-01-30N 20-45-40E	HU 0232-23	Type I (rectangular)			
56	Miskolc SAM Site B30-2, [redacted]	48-15-10N 20-51-00E	HU 0232-23	SA-2, fan			
G Warsaw (Poland) SAM Defenses (in defense of Polish capital: industrial, military, and governmental control center of Poland)							
25	Warsaw SAM Site C19-2, [redacted]	51-54-00N 20-55-00E	PO 0232-3	SA-2, link			
H Mukachevo/Uzhgorod SAM Defenses (in defense of Mukachevo and Uzhgorod MRBM Complexes)							
36	Mukachevo SAM Site B29-2, [redacted]	48-31-10N 22-21-40E	UR 0232-24	SA-2, star			
37	Mukachevo SAM Site B24-2, [redacted]	48-15-00N 22-24-00E	UR 0232-24	SA-2, star			
38	Mukachevo SAM Support Facility, [redacted]	48-21-00N 22-42-40E	UR 0232-24	Type II (square)			
29	Mukachevo SAM Site B19-2, [redacted]	48-07-30N 22-39-50E	UR 0232-24	SA-2, star			

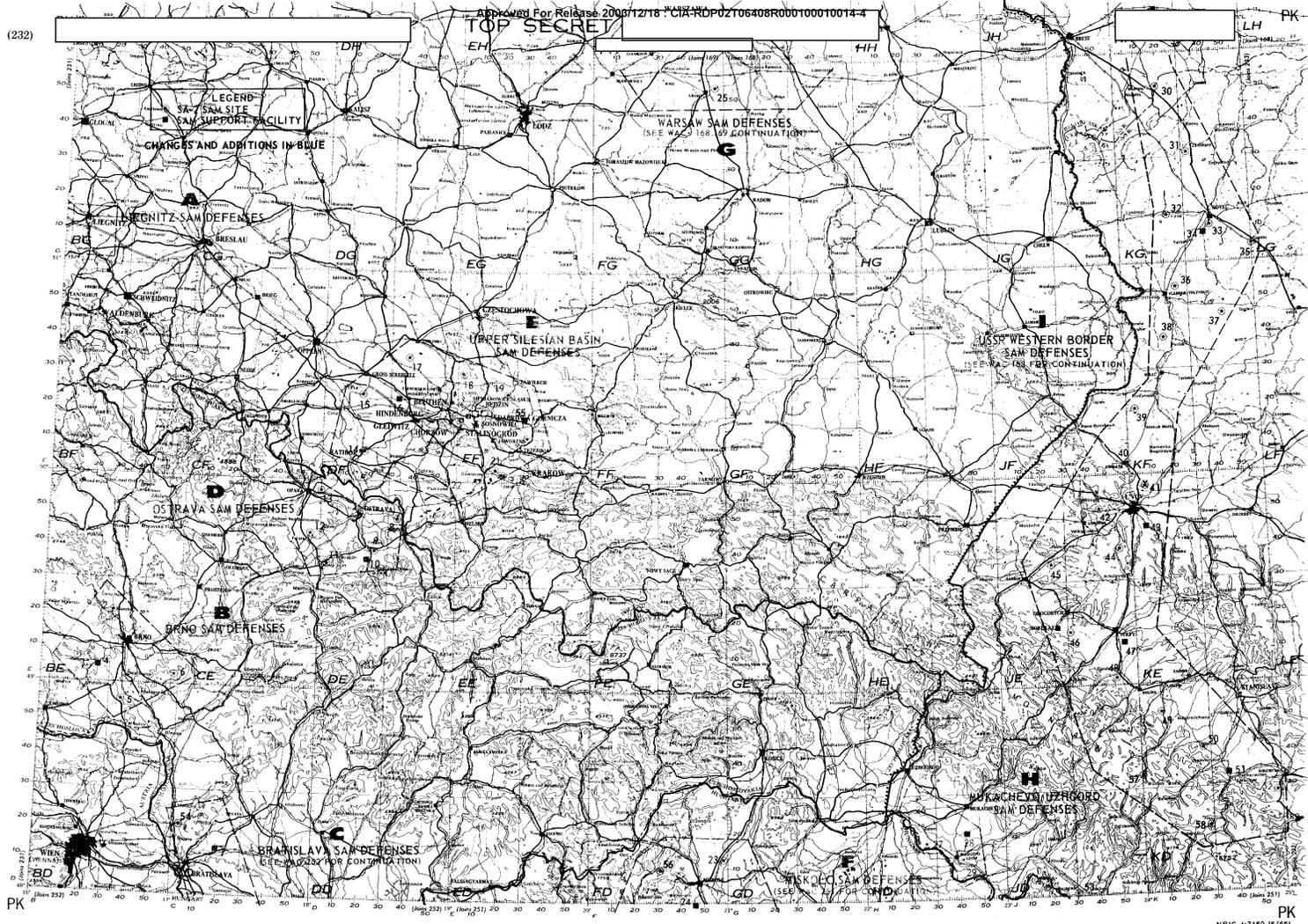
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FIGURE 42. WAC 232, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 39. SAM Installations on WAC 232 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks	
■ USSR Western Border SAM Defenses (in defense of western border of USSR and Sokol, Drogobych, Dolina, and Nadvornaya MRBM Complexes)								
80	Brest SAM Site C13-2, [redacted]	51-51-00N 24-19-30E	UR 0232-5	SA-2, link			Only 5 launch revetments are visible at this site. The proximity of this site to surrounding buildings suggests that it may be a training site.	
31	Kovel SAM Site C35-2, [redacted]	51-32-50N 24-32-50E	UR 0232-5	SA-2, star				
32	Kovel SAM Site B29-2, [redacted]	51-15-50N 24-22-30E	UR 0232-5	SA-2, star				
33	Kovel SAM Site A24-2, [redacted]	51-12-00N 24-41-00E	UR 0232-5	SA-2, fan				
34	Kovel SAM Support Facility, [redacted]	51-10-20N 24-38-20E	UR 0232-10	Type II (square)			<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> [redacted] </div> This site was negated.	
35	Kovel SAM Site B13-2, [redacted]	51-06-45N 24-59-00E	UR 0232-10	SA-2, star				
36	Vladimir Volynskiy SAM Site A04-2, [redacted]	50-55-10N 24-28-50E	UR 0232-10	SA-2, star				
37	Lutsk MRBM Complex SAM Site B27-2, [redacted]	50-47-15N 24-44-20E	UR 0232-10	SA-2, link				
38	Sokol SAM Site B01-2, [redacted]	50-40-30N 24-17-05E	UR 0232-10	SA-2, star				
39	Sokol MRBM Complex SAM Site B26-2, [redacted]	50-21-15N 24-02-55E	UR 0232-15	SA-2, star				
40	Lvov SAM Site B36-2, [redacted]	50-05-05N 23-58-35E	UR 0232-15	SA-2, star				
42	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]		[redacted]
43	Lvov SAM Site B29-2, [redacted]	49-52-30N 23-45-40E	UR 0232-15	SA-2, link				
44	Lvov SAM Support Facility, [redacted]	49-47-10N 24-05-20E	UR 0232-15	Type I (rectangular)				
45	Lvov SAM Site B21-2, [redacted]	49-41-01N 23-53-26E	UR 0232-15	SA-2, star				
46	Drogobych SAM Site B33-2, [redacted]	49-37-20N 23-23-41E	UR 0232-15	SA-2, star				
47	Drogobych SAM Site A19-2, [redacted]	49-17-30N 23-30-00E	UR 0232-20	SA-2, star				
48	Styry SAM Support Facility, [redacted]	49-14-30N 23-53-10E	UR 0232-20	Type II (square)				
49	Dolina MRBM Complex SAM Site B18-2, [redacted]	49-04-50N 23-50-30E	UR 0232-20	SA-2, star				
50	Ivano Frankovsk SAM Site B23-2, [redacted]	48-43-20N 24-36-00E	UR 0232-25	SA-2, star				
51	Ivano Frankovsk SAM Support Facility, [redacted]	48-35-25N 24-36-10E	UR 0232-25	Type II (square)				
52	Ivano Frankovsk SAM Site C16-2, [redacted]	48-30-50N 24-57-35E	UR 0232-25	SA-2, star				
57	Mukachevo SAM Site B06-2, [redacted]	48-33-30N 23-00-00E	UR 0232-24	SA-2, configuration undetermined				
56	Nadvornaya MRBM Complex SAM Site C21-2, [redacted]	48-19-18N 24-28-40E	UR 0232-25	SA-2, fan				
■ Defensive Role Undetermined								
53	Khust SAM Site B14-2, [redacted]	48-03-50N 23-29-41E	UR 0232-25	SA-2, link			This site may be used as a training site, because of its proximity to a barracks area. The configuration of this site has been altered somewhat to fit the surrounding terrain.	

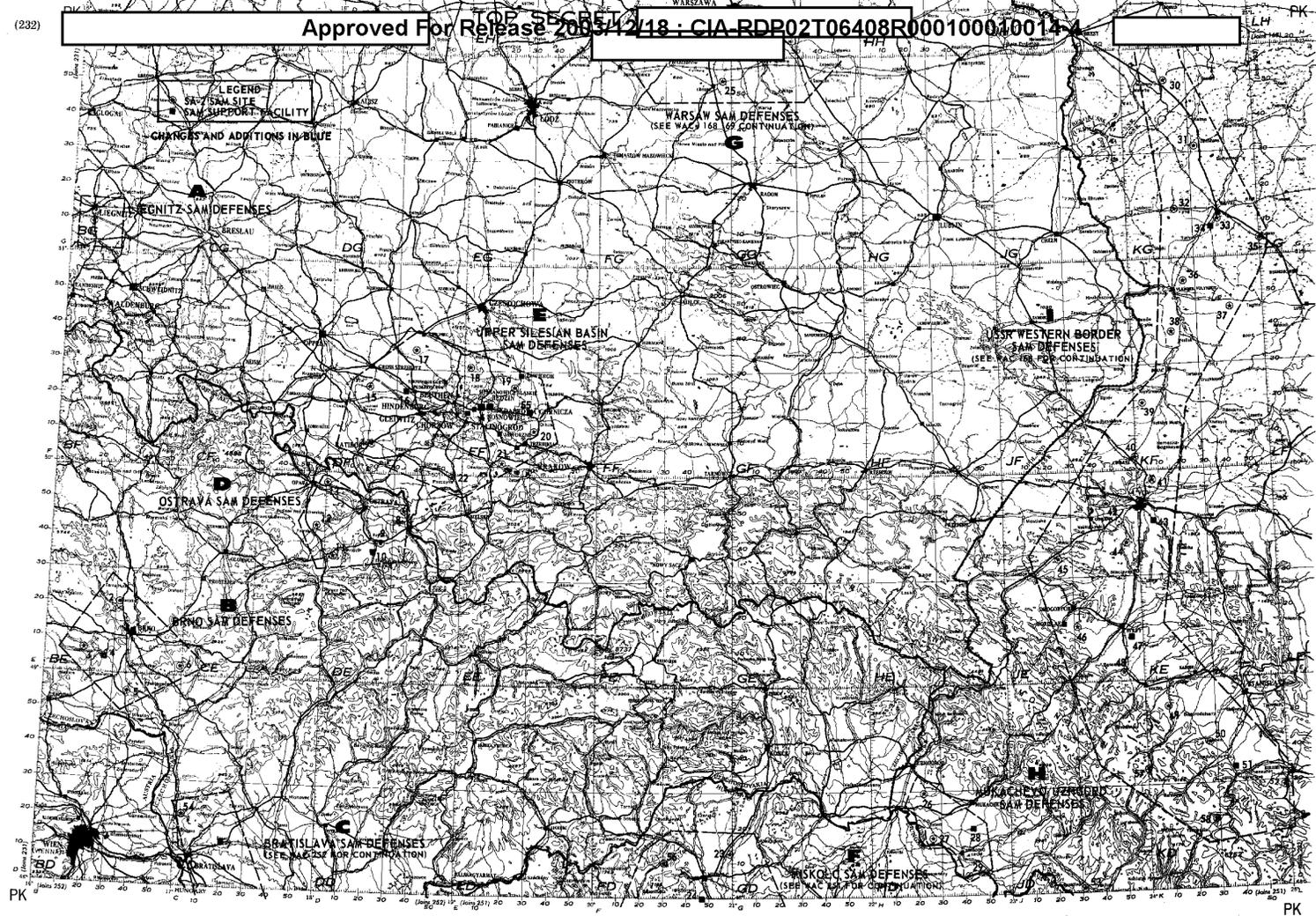
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Table 10. SAM Installations on WAC 233

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
Note - Installations whose defensive role is unknown, and which do not fall within the confines of a SAM defense are found under subheading S - "Defensive Role Undetermined"							
A Lutsk SAM Defenses (in defense of Lutsk and Kivertay MRBM Complexes)*							
1	Kivertay MRBM Launch Complex SAM Site A01-2, [redacted]	51-04-15N 25-34-20E	UR 0283-6	SA-2, star			
2	Lutsk MRBM Complex SAM Site A08-2, [redacted]	50-49-50N 25-13-40E	UR 0283-6	SA-2, probable star			This site has no associated support buildings, and appears abandoned.
3	Lutsk SAM Support Facility, [redacted]	50-45-50N 25-09-00E	UR 0283-6	Type II (square)			
56	Lutsk MRBM Complex SAM Site, [redacted]	50-37-20N 25-00-40E	UR 0283-6	SA-2, configuration undetermined			
B Rovno SAM Defenses (in defense of Rovno: several minor industries; military barracks areas, supply depot, and maneuver area; and the largest flax combine in Europe.)							
53	Rovno SAM Site B07-2, [redacted]	50-44-45N 26-34-45E	UR 0283-6	SA-2, star			This site is located in a military training area and appears to be a training site.
57	Rovno SAM Site B25-2, [redacted]	50-32-25N 25-53-10E	UR 0283-6	SA-2, star			
58	Rovno SAM Site B04-2, [redacted]	50-49-53N 26-28-40E	UR 0283-6	SA-2, configuration undetermined			
59	Rovno SAM Site B11-2, [redacted]	50-32-35N 26-35-20E	UR 0283-6	SA-2, star			
C Brody SAM Defenses (in defense of Brody MRBM Complex)							
4	Brody MRBM Complex SAM Site B18-2, [redacted]	50-08-40N 26-06-00E	UR 0283-11	SA-2, star			
D Nadvornaya SAM Defenses (in defense of Nadvornaya MRBM Complex)*							
5	Ivano Frankovsk SAM Site B12-2, [redacted]	48-49-00N 25-06-50E	UR 0283-16	SA-2, star			
E Kamenets - Podolskiy/Borshchev SAM Defenses (in defense of Kamenets - Podolskiy and Borshchev MRBM Complexes)							
6	Chortkov SAM Site B38-2, [redacted]	49-12-35N 25-44-55E	UR 0283-16	SA-2, configuration undetermined			
7	Chernovtsy SAM Support Facility, [redacted]	48-46-00N 26-02-00E	UR 0283-21	Type II (square)			
8	Chernovtsy SAM Site C01-2, [redacted]	48-39-00N 26-01-00E	UR 0283-21	SA-2, star			
9	Kamenets-Podolskiy SAM Site A30-2, [redacted]	48-44-50N 26-25-30E	UR 0283-21	SA-2, star			
10	Kamenets-Podolskiy MRBM Complex SAM Site A27-2, [redacted]	48-52-40N 26-48-30E	UR 0283-17	SA-2, star			
F Yelisk SAM Defenses (in defense of Yelisk MRBM Complex)							
11	Konkovich MRBM Complex SAM Site C19-2, [redacted]	51-51-20N 28-33-10E	UR 0283-2	SA-2, link			
12	Yelisk MRBM Complex SAM Site A10-2, [redacted]	51-43-45N 29-25-30E	UR 0283-3	SA-2, link			
G Belokorovich/Usovo SAM Defenses (in defense of Belokorovich, Korosten and Usovo MRBM Complexes)							
13	Ovruch SAM Site B99-2, [redacted]	51-24-05N 28-24-00E	UR 0283-2	SA-2, star			
14	Belokorovich MRBM Complex SAM Site B27-2, [redacted]	51-09-20N 27-43-40E	UR 0283-7	SA-2, star			
15	Korosten SAM Support Facility, [redacted]	51-01-30N 28-33-30E	UR 0283-7	Type II (square)			
16	Korosten SAM Site C26-2, [redacted]	50-51-30N 28-00-20E	UR 0283-7	SA-2, star			
H Ostrog SAM Defenses (in defense of Ostrog MRBM Complex)							
17	Ostrog MRBM Complex SAM Site B15-2, [redacted]	50-07-30N 26-52-05E	UR 0283-12	SA-2, configuration undetermined			This site is unrevetted, and no service road configuration is visible.
18	Ostrog MRBM Complex SAM Site B19-2, [redacted]	50-09-55N 27-06-35E	UR 0283-12	SA-2, link			
I Zhitomir/Berdichev SAM Defenses (in defense of Zhitomir MRBM Complex and Berdichev regional military storage installation)							
19	Zhitomir SAM Site A31-2, [redacted]	50-16-30N 28-37-15E	UR 0283-13	SA-2, fan			The location of this site relative to surrounding buildings suggests that it might be a training site.
20	Zhitomir SAM Site A30-2, [redacted]	50-19-40N 28-39-20E	UR 0283-13	SA-2, probable star			
21	Berdichev SAM Site C27-2, [redacted]	49-53-00N 27-39-00E	UR 0283-12	SA-2, star			
22	Berdichev SAM Support Facility, [redacted]	49-50-17N 28-24-07E	UR 0283-12	Type II (square)			
23	Berdichev SAM Site B23-2, [redacted]	49-46-15N 28-23-40E	UR 0283-12	SA-2, star			

*The defense of these installations is complemented by some elements of the USSR western border SAM defenses.

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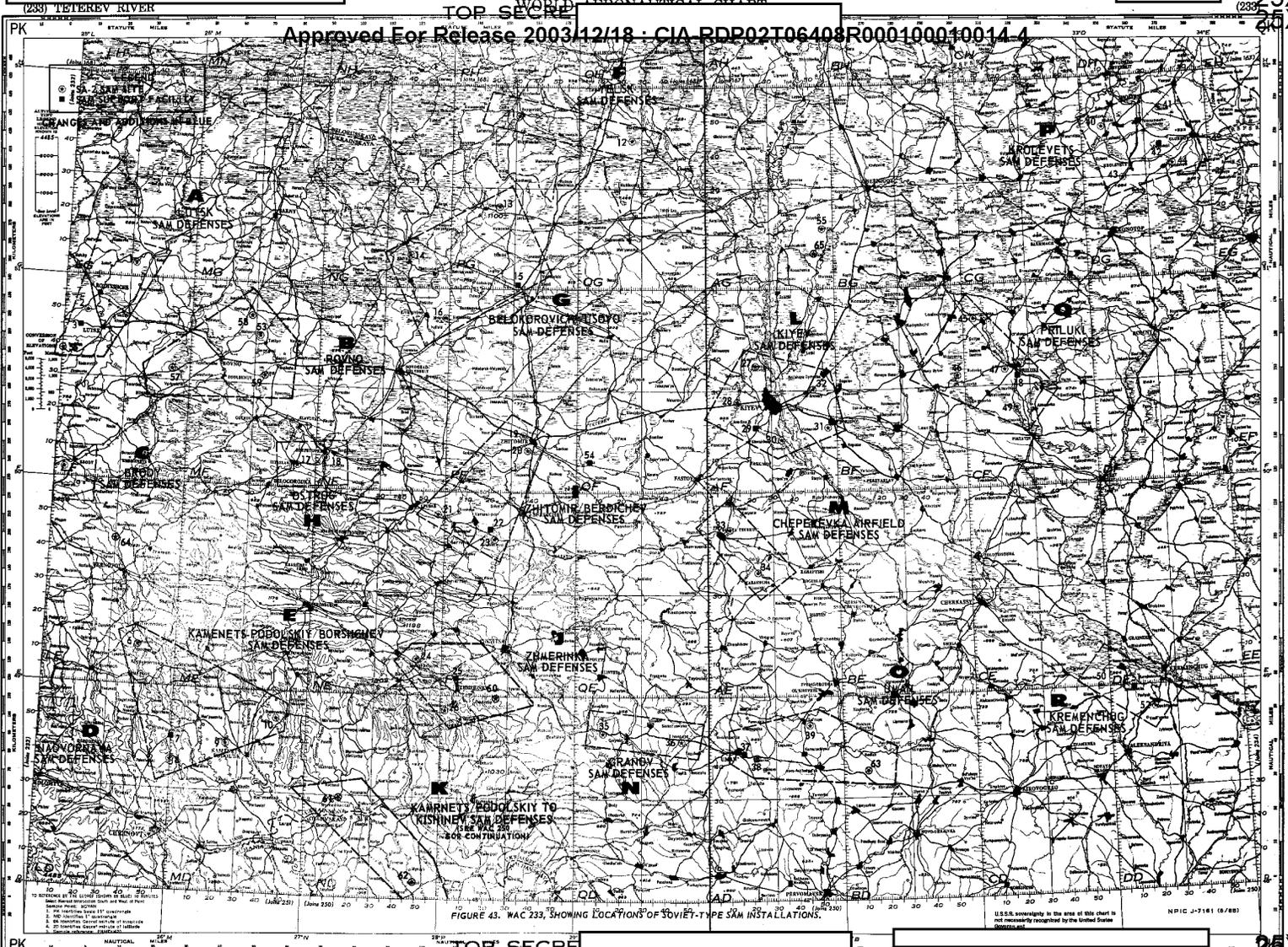


FIGURE 43. WAC 233, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

U.S.S.R. sovereignty in the area of this chart is not necessarily recognized by the United States.
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Table 40. SAM Installations on WAC 233 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
J Zherinka SAM Defenses (in defense of Zherinka MRBM Complex)							
24	Zherinka MRBM Complex SAM Site B28-2, [redacted]	49-10-10N 27-49-00E	UR 0288-17	SA-2, star			[redacted]
25	Zherinka SAM Support Facility, [redacted]	49-05-45N 28-08-15E	UR 0288-17	Type II (square)			
28	Zherinka SAM Site A19-2, [redacted]	48-58-00N 28-03-00E	UR 0288-17	SA-2, star			
60	Zherinka SAM Site B14-2, [redacted]	48-58-20N 28-24-50E	UR 0288-17	SA-2, star			
K Kamenets - Podolskiy to Kishinev SAM Defenses (in defense of the southwestern border of the USSR between Kamenets - Podolskiy and Kishinev)							
61	Mogilev-Podolskiy SAM Site C28-2, [redacted]	48-29-30N 27-15-15E	UR 0288-22	SA-2, configuration undetermined			[redacted]
62	Mogilev-Podolskiy SAM Site C18-2, [redacted]	48-04-50N 27-48-50E	UR 0288-22	SA-2, configuration undetermined			[redacted]
L Kiyev SAM Defenses (in defense of third-largest city in USSR--capital of Ukrainian SSR: major industrial production center for armaments, ammunition, drugs, chemicals, railroad rolling stock, tools, aircraft, rubber products and machinery)							
27	Kiyev SAM Site B35-2, [redacted]	50-37-15N 30-24-30E	UR 0288-9	SA-2, star			[redacted]
28	Kiyev SAM Site A26-2, [redacted]	50-28-00N 30-15-30E	UR 0288-9	SA-2, star			[redacted]
29	Kiyev SAM Support Facility, [redacted]	50-19-30N 30-24-30E	UR 0288-8	Type I (rectangular)			[redacted]
30	Kiyev SAM Site B16-2, [redacted]	50-15-35N 30-26-15E	UR 0288-9	SA-2, star			[redacted]
31	Kiyev SAM Site B12-2, [redacted]	50-18-35N 30-58-15E	UR 0288-9	SA-2, star			[redacted]
32	Kiyev SAM Site B08-2, [redacted]	50-30-10N 30-51-25E	UR 0288-9	SA-2, configuration undetermined			[redacted]
M Chepelevka Airfield SAM Defenses (in defense of Chepelevka Long Range Air Arm Airfield)							
33	Bolaya Tserkov SAM Site A07-2, [redacted]	49-49-40N 30-11-30E	UR 0288-18	SA-2, star			
34	Bolaya Tserkov SAM Site B14-2, [redacted]	49-56-00N 30-24-00E	UR 0288-18	SA-2, star			
N Granov SAM Defenses (in defense of Granov IRBM Complex)							
35	Granov IRBM Complex SAM Site B25-2, [redacted]	48-49-10N 29-49-10E	UR 0288-18	SA-2, star			[redacted]
36	Granov IRBM Complex SAM Site B12-2, [redacted]	48-47-05N 29-49-10E	UR 0288-23	SA-2, star			[redacted]
O Uman SAM Defenses (in defense of Uman MRBM Complex)							
37	Uman SAM Support Facility, [redacted]	48-43-20N 30-17-20E	UR 0288-23	Type II (square)			
38	Uman MRBM Complex SAM Site B20-2, [redacted]	48-42-15N 30-22-25E	UR 0288-23	SA-2, link			
39	Tainoye SAM Site A12-2, [redacted]	48-51-35N 30-46-00E	UR 0288-19	SA-2, link			
63	Tainoye SAM Site C13-2, [redacted]	48-37-40N 31-10-20E	UR 0288-24	SA-2, configuration undetermined			
P Krolevets SAM Defenses (in defense of Krolevets IRBM Complex)							
40	Krolevets SAM Site B38-2, [redacted]	51-44-40N 33-11-30E	UR 0288-5	SA-2, link			
41	Krolevets SAM Site B04-2, [redacted]	51-49-00N 33-38-25E	UR 0288-5	SA-2, link			
42	Krolevets SAM Support Facility, [redacted]	51-38-50N 33-41-30E	UR 0288-5	Type II (square)			
43	Krolevets SAM Site A21-2, [redacted]	51-29-45N 33-20-35E	UR 0288-5	SA-2, link			
44	Krolevets SAM Site B09-2, [redacted]	51-33-10N 33-44-40E	UR 0288-5	SA-2, probable link			

An unvetted star-configuration ground pattern is adjacent to this site.

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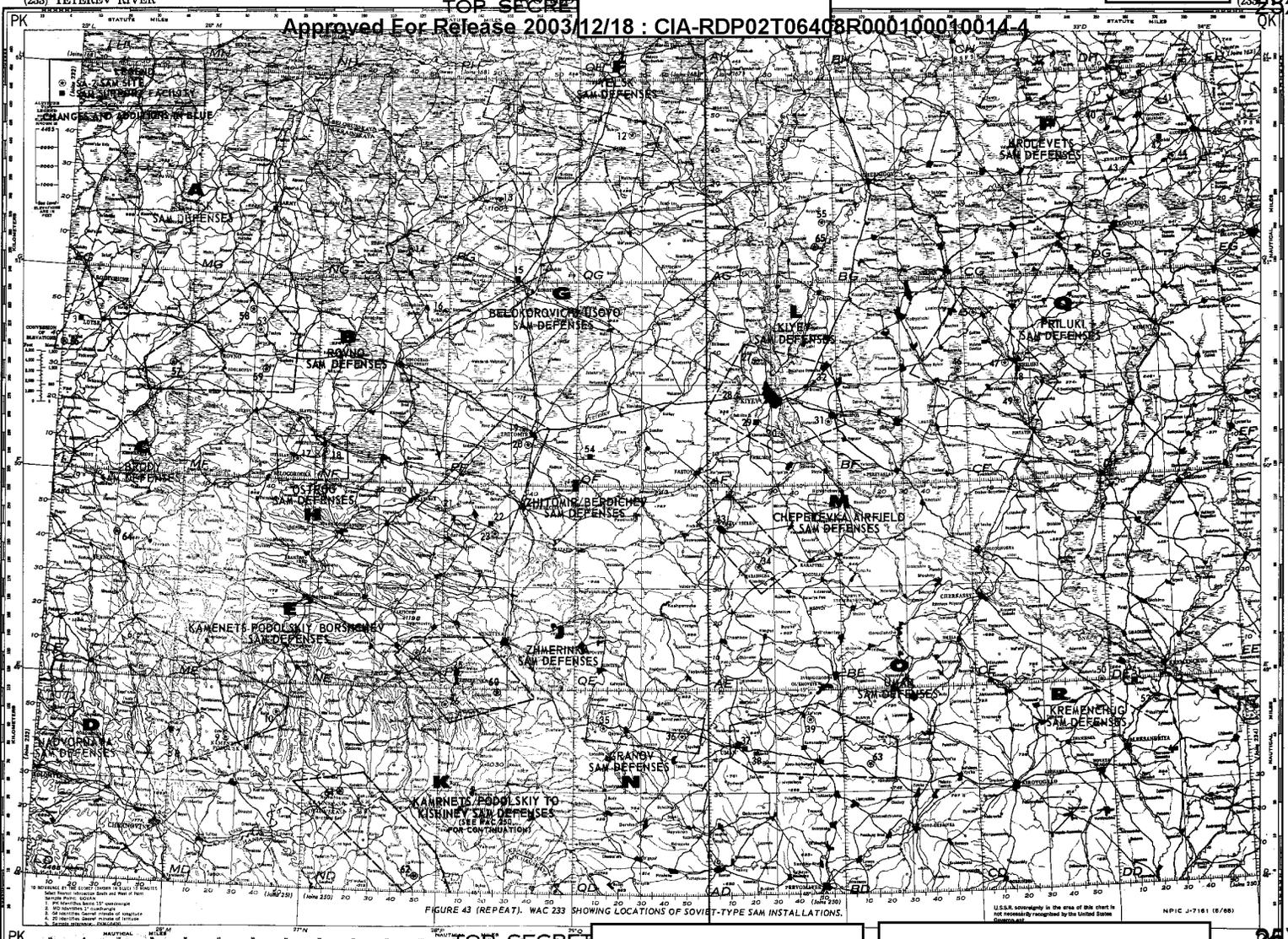


FIGURE 43 (REPEAT). WAC 233 SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 40. SAM Installations on WAC 233 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated†	Remarks
Q Priluki SAM Defenses (in defense of Priluki Long Range Air Arm Airfield)							
45	Priluki SAM Site B33-2, [redacted]	50-49-00N 32-06-00E	UR 0233-9	SA-2, configuration undetermined	[redacted]		
46	Priluki SAM Site B28-2, [redacted]	50-32-00N 31-59-55E	UR 0233-9	SA-2, star			
47	Priluki SAM Site A25-2, [redacted]	50-34-55N 32-20-55E	UR 0233-10	SA-2, probable link			
48	Priluki SAM Support Facility, [redacted]	50-32-50N 32-25-30E	UR 0233-10	Type II (square)			
49	Priluki SAM Site B18-2, [redacted]	50-23-45N 32-25-30E	UR 0233-15	SA-2, star			
R Kremenchug SAM Defenses (in defense of Kremenchug Dam and Power Plant)							
50	Kremenchug SAM Site B36-2, [redacted]	49-00-56N 32-57-45E	UR 0233-21	SA-2, star	[redacted]		This installation is similar to those found at Moscow and Druzhinino. Rather than supporting any one complex, it probably serves this entire region. This site is located in a military training area and appears to be a training site.
51	Kremenchug SAM Support Facility, [redacted]	48-59-35N 32-12-30E	UR 0233-21	Type I (rectangular)			
52	Kremenchug SAM Site B19-2, [redacted]	48-53-40N 32-21-30E	UR 0233-20	SA-2, star			
S Defensive Role Undetermined							
54	Zhitomir SAM Storage Site, [redacted]	50-10-00N 29-05-00E	UR 0233-13	Missile assembly and storage facility			
55	Chernigov SAM Site B29-2, [redacted]	51-17-00N 30-56-10E	UR 0233-4	SA-2, star			
64	Ternopol SAM Site B35-2, [redacted]	49-42-40N 25-30-30E	UR 0233-11	SA-2, configuration undetermined			
65	Chernigov SAM Site B20-2, [redacted]	51-09-10N 30-51-00E	UR 0233-9	SA-2, link			

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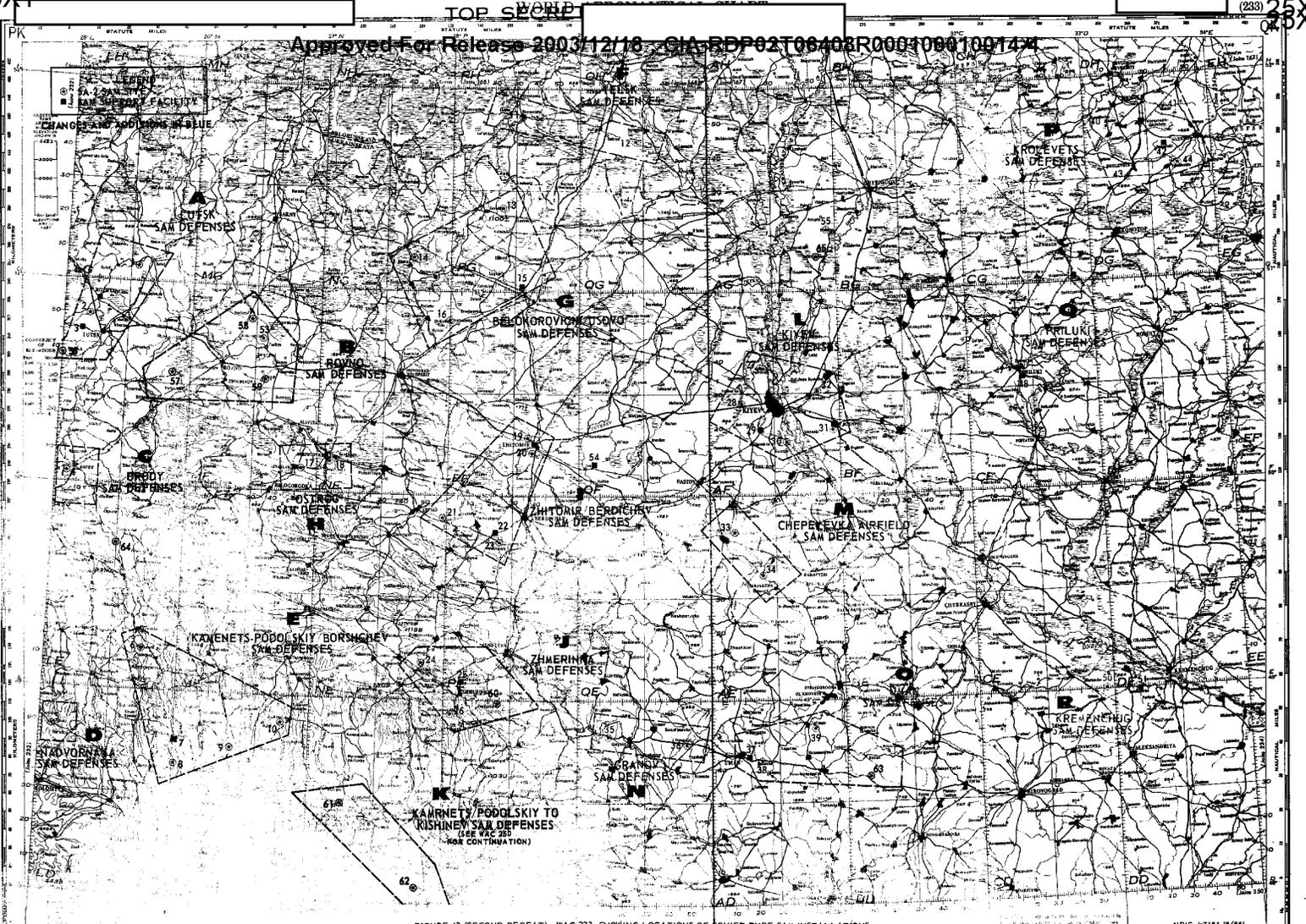


FIGURE 43 (SECOND REPEAT). WAC 233, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 41. SAM Installations on WAC 234

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
<p>Note - Installations whose defensive role is unknown, and which do not fall within the confines of a SAM defense area are found under subheading H - "Defensive Role Undetermined."</p>							
<p>A Poltava SAM Defenses (in defense of Soviet Long Range Air Arm Base; Hq 13th Heavy Bomber Air Division with Type II, modified, [REDACTED] and railroad facilities)</p>							
1	Poltava SAM Site B29-2, [REDACTED]	49-39-38N 34-08-20E	UR 0234-11	SA-2, star	[REDACTED]		
2	Poltava SAM Site B21-2, [REDACTED]	49-24-30N 34-23-40E	UR 0234-16	SA-2, star	[REDACTED]		
3	Poltava SAM Support Facility, [REDACTED]	49-29-45N 34-31-30E	UR 0234-16	Type II (square)	[REDACTED]		
4	Poltava SAM Site A19-2, [REDACTED]	49-30-00N 34-31-20E	UR 0234-16	SA-2, star	[REDACTED]		
<p>B Dneprodzerzhinsk/Dnepropetrovsk SAM Defenses (in defense of strategic industrial area comprising the heavy industry complexes at Dneprodzerzhinsk: iron, coke, railroad car, synthetic ammonia, and coke chemical plants; Dnepropetrovsk: steel, locomotive, heavy equipment, and coke chemical plants; rolling mills, railroad facilities, power plant, and Dnepropetrovsk Missile Development and Production Center, DMDC)</p>							
5	Verkhovtsevo SAM Site A01-2, [REDACTED]	48-32-55N 34-14-45E	UR 0234-12	SA-2, star	[REDACTED]		
6	Dnepropetrovsk SAM Site C25-2, [REDACTED]	48-17-36N 34-24-52E	UR 0234-21	SA-2, probable star	[REDACTED]		
7	Dnepropetrovsk SAM Site B34-2, [REDACTED]	48-21-30N 34-48-44E	UR 0234-21	SA-2, link	[REDACTED]		
8	Dnepropetrovsk SAM Support Facility, [REDACTED]	48-23-40N 34-58-55E	UR 0234-21	Type I (rectangular)	[REDACTED]		
9	Dnepropetrovsk SAM Site B17-2, [REDACTED]	48-17-06N 35-06-02E	UR 0234-21	SA-2, link	[REDACTED]		
10	Dnepropetrovsk SAM Site B11-2, [REDACTED]	48-22-22N 35-26-44E	UR 0234-21	SA-2, star	[REDACTED]		
11	Dnepropetrovsk SAM Site B07-2, [REDACTED]	48-36-30N 35-25-00E	UR 0234-21	SA-2, star	[REDACTED]		
28	Dnepropetrovsk SAM Support Facility 2, [REDACTED]	48-23-30N 34-47-30E	UR 0234-21	Type II (square)	[REDACTED]		
<p>C Kursk SAM Defenses (in defense of Kursk: strategic railroad junction and yards, battery plant 111, and synthetic rubber plant)</p>							
12	Kursk SAM Site B33-2, [REDACTED]	51-50-10N 35-59-40E	UR 0234-2	SA-2, configuration undetermined	[REDACTED]		
13	Kursk SAM Site B11-2, [REDACTED]	51-40-25N 36-35-20E	UR 0234-2	SA-2, configuration undetermined	[REDACTED]		
29	Kursk SAM Site B90-2, [REDACTED]	51-32-30N 36-05-30E	UR 0234-2	SA-2, link	[REDACTED]		
30	Kursk SAM Support Facility, [REDACTED]	51-45-30N 36-18-45E	UR 0234-2	Type II (square)	[REDACTED]		
31	Kursk SAM Site B05-2, [REDACTED]	51-55-30N 36-38-30E	UR 0234-2	SA-2, link	[REDACTED]		
<p>D Kharkov SAM Defenses (in defense of Kharkov: one of the USSR's largest cities with heavy and electrical machinery, tank and locomotive, tractor, bearings, tools, coke chemical, and aircraft assembly plants; headquarters of southern railroad system of USSR; Ukrainian Physicotechnical Institute at Kharkov; and major military air facilities)</p>							
14	Kharkov SAM Site A01-2, [REDACTED]	50-07-42N 36-18-25E	UR 0234-12	SA-2, star	[REDACTED]		
15	Kharkov SAM Site B28-2, [REDACTED]	50-00-06N 35-55-00E	UR 0234-12	SA-2, star	[REDACTED]		
16	Kharkov SAM Site A20-2, [REDACTED]	49-50-40N 36-10-55E	UR 0234-12	SA-2, star	[REDACTED]		
17	Kharkov SAM Support Facility, [REDACTED]	49-56-40N 36-28-50E	UR 0234-12	Type II (square)	[REDACTED]		
18	Kharkov SAM Site B13-2, [REDACTED]	49-53-15N 36-31-00E	UR 0234-12	SA-2, star	[REDACTED]		
<p>E Kramatorsk SAM Defenses (in defense of Kramatorsk industrial complex with the metallurgical plant Kuybyshev, and machine and tool plants)*</p>							
19	Kramatorsk SAM Site B25-2, [REDACTED]	48-38-00N 37-18-00E	UR 0234-22	SA-2, link	[REDACTED]		
20	Kramatorsk SAM Site B17-2, [REDACTED]	48-22-10N 37-38-10E	UR 0234-22	SA-2, star	[REDACTED]		
22	Kramatorsk SAM Support Facility, [REDACTED]	48-44-00N 37-35-30E	UR 0234-22	Type II (square)	[REDACTED]		
<p>F Voronezh SAM Defenses (in defense of Voronezh: nuclear power station, aircraft engine and airframe assembly, radio equipment, railroad car, and machinery production)</p>							
21	Voronezh SAM Site B01-2, [REDACTED]	51-51-30N 39-14-00E	UR 0234-3	SA-2, link	[REDACTED]		
22	Voronezh SAM Support Facility, [REDACTED]	51-33-30N 39-08-00E	UR 0234-3	Type II (square)	[REDACTED]		
23	Voronezh SAM Site B10-2, [REDACTED]	51-38-40N 39-30-10E	UR 0234-4	SA-2, link	[REDACTED]		
24	Voronezh SAM Site B17-2, [REDACTED]	51-26-15N 39-17-30E	UR 0234-3	SA-2, link	[REDACTED]		
23	Voronezh SAM Site B27-2, [REDACTED]	51-38-30N 38-55-00E	UR 0234-3	SA-2, link	[REDACTED]		

*These SAM defenses also afford some protection for the highly strategic Donets Basin, principal coal-producing basin of southern USSR, including industrial complexes of Donetsk, Yomakhyovo, Makeyevka, Lugansk, and Gorkovka.
 †Classification of all photo references on this page is TOP SECRET [REDACTED] TOP SECRET [REDACTED] less otherwise indicated following an individual reference.

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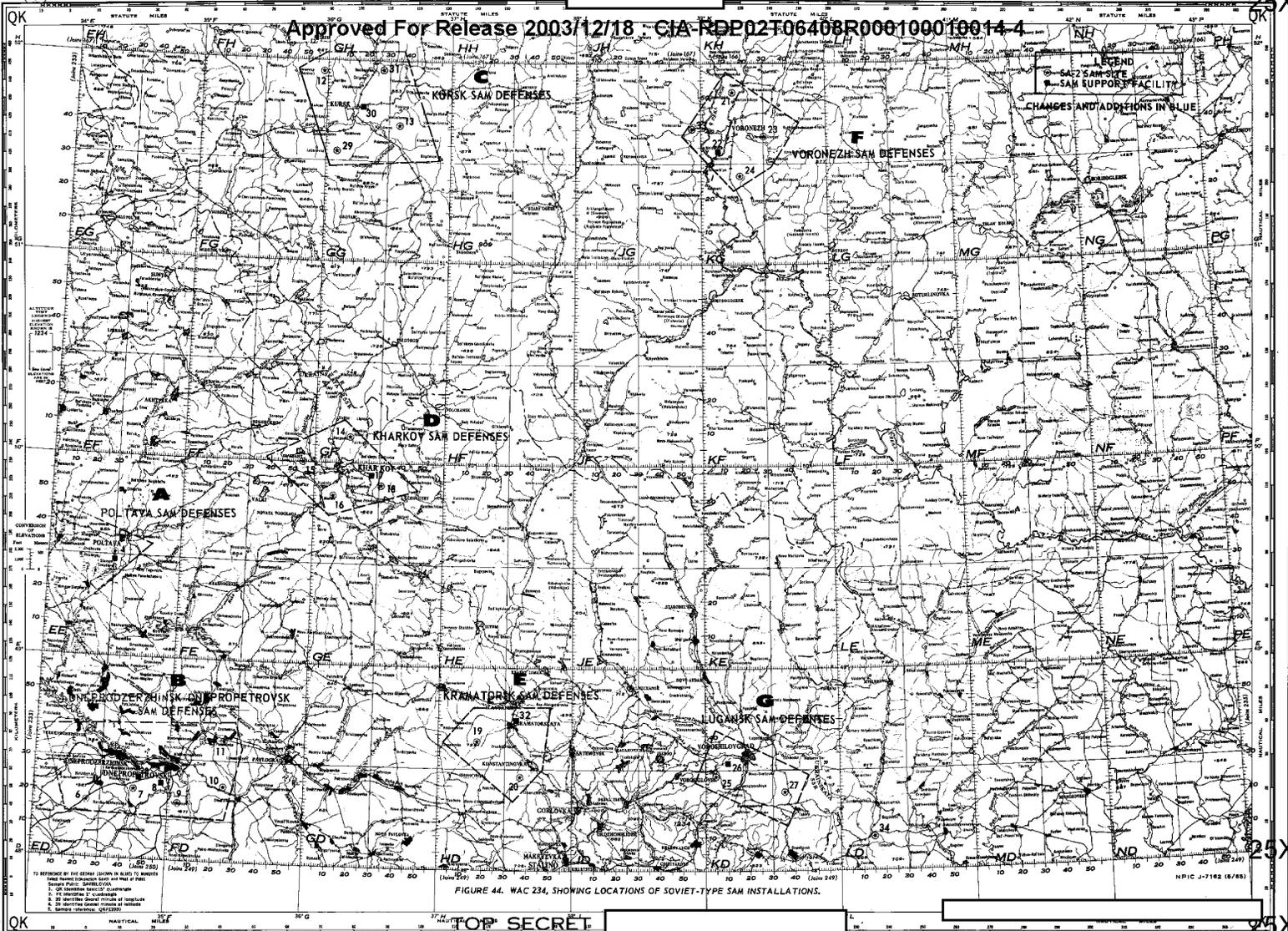
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OSKOL RIVER (234)

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Table 41. SAM Installations on WAC 234 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
G Lugansk SAM Defenses (in defense of Lugansk heavy industrial complex: major locomotive manufacturing plant, machine and munitions plant, extensive railroad facilities, and power plants)*							
25	Lugansk SAM Site B24-2, [redacted]	48-29-25N 39-05-00E	UR 0284-23	SA-2, star	[redacted]		
26	Lugansk Possible SAM Support Facility	48-29-15N 39-10-30E	UR 0284-23	Type II (square)			
27	Lugansk SAM Site B14-2, [redacted]	48-24-10N 39-36-00E	UR 0284-24	SA-2, star			
H Defensive Role Undetermined							
34	Kamensk-Shakhtinskiy SAM Site A18-2, [redacted]	48-10-30N 40-14-30E	UR 0284-24	SA-2, configuration undetermined			Although the defensive role of this site cannot be determined, its location would permit its participation in the defense of the Donets Basin Area.

*These SAM defenses also afford some protection for the highly strategic Donets Basin, principal coal-producing basin of southern USSR, including industrial complexes of Donetsk, Yenakiyev, Makeyovka, Lugansk, and Gorlovka.

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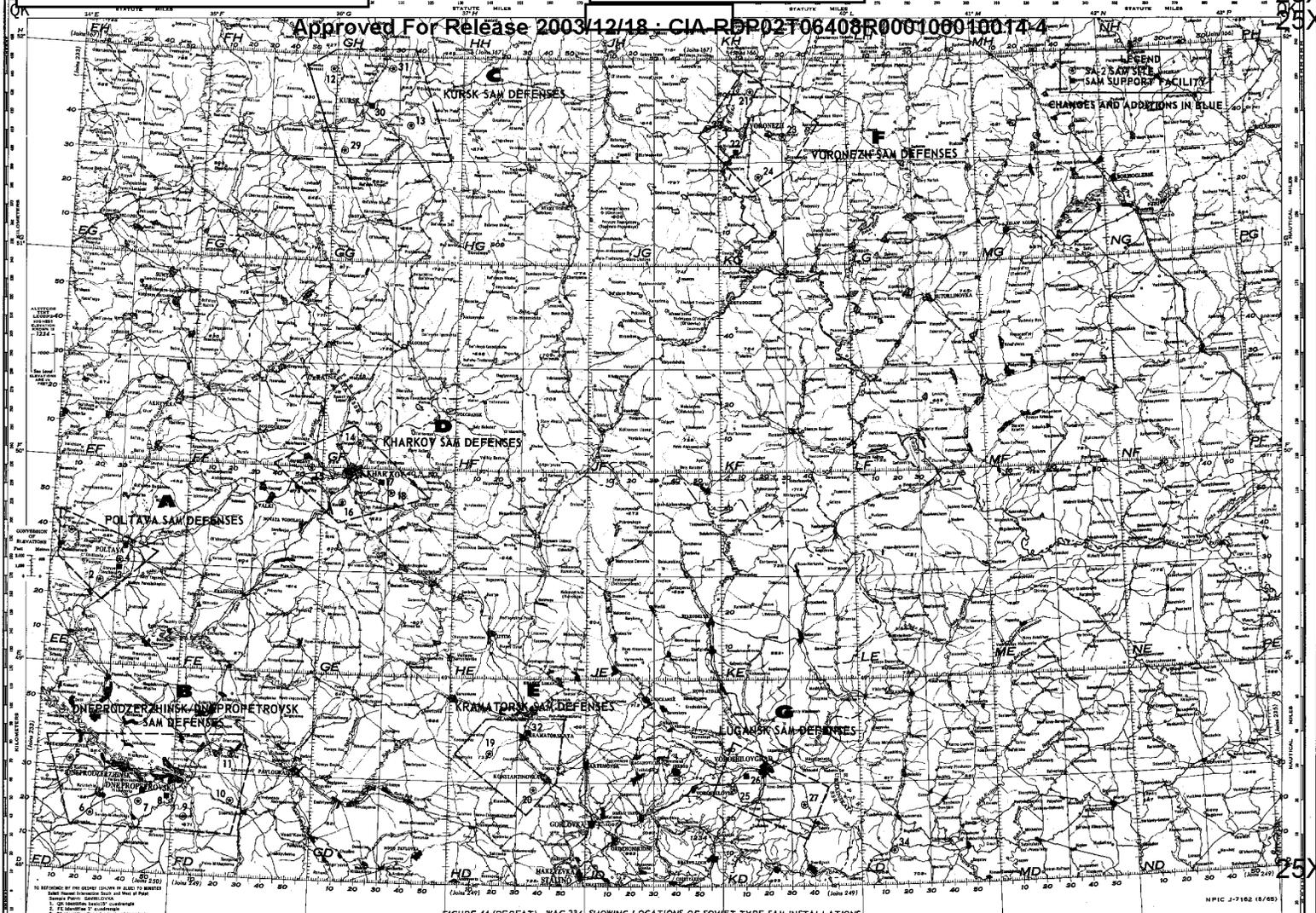


FIGURE 44 (REPEAT). WAC 234. SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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OSKOL RIVER (234)

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Table 42. SAM Installations on WAC 235

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks	
Balakovo SAM Defenses								
1	Volsk SAM Site A17-2	51-54-30N 47-26-30E	UR 0235-3	SA-0, category 1				
2	Balakovo SAM Site A13-2	51-56-10N 47-59-50E	UR 0235-3	SA-0, category 1				
Saratov/Engels SAM Defenses (in defense of Soviet Long Range Air Arm Base at Engels: POL refining and storage facilities, power plants, railroad locomotive repairs, railroad car manufacturing, and strategic rail facilities; production facilities for electrical equipment, aircraft parts, gears, chemicals, munitions, metal products, and short-range SSMs and SAMs)								
3	Saratov SAM Site B08-2	51-36-30N 46-28-15E	UR 0235-2	SA-2, star			When seen on Mission [redacted] this site did not display the configuration of an SA-0 site, although the dimensions place it in that category.	
4	Saratov SAM Support Facility	51-24-40N 46-10-00E	UR 0235-2	Type I (rectangular)				
5	Saratov SAM Site B18-2	51-20-00N 46-01-15E	UR 0235-2	SA-2, star				
6	Saratov SAM Site C13-2	51-21-45N 46-28-30E	UR 0235-2	SA-2, link				
27	Saratov SAM Site A81-2	51-43-20N 45-47-30E	UR 0235-2	SA-2, star				
Kamyshin SAM Defenses (in defense of Kamyshin: railroad facilities, POL storage, and light industry)								
7	Kamyshin SAM Site A04-2	50-18-30N 45-33-20E	UR 0235-12	SA-2, star				When seen on Mission [redacted] this site did not display the configuration of an SA-0 site, although the dimensions place it in that category.
8	Kamyshin SAM Support Facility	50-03-00N 45-21-30E	UR 0235-12	Type II (square)				
9	Kamyshin SAM Site B21-2	49-50-45N 45-15-30E	UR 0235-12	SA-2, star				
Volgograd SAM Defenses (in defense of Volgograd: major supplier of military equipment-tanks, guns, explosives, ammunition, small arms, transportation facilities, POL refining and storage facilities, and power plants; and production of chemicals, steel, aluminum, tractors, and oil-rigging equipment)								
10	Volgograd SAM Site C05-2	49-01-00N 44-59-00E	UR 0235-17	SA-2, daisy			When seen on Mission [redacted] this site did not display the configuration of an SA-0 site, although the dimensions place it in that category.	
11	Volgograd SAM Site B03-2	48-57-50N 44-39-30E	UR 0235-16	SA-2, daisy				
12	Volgograd SAM Support Facility 1	48-52-30N 44-38-25E	UR 0235-16	Type I (rectangular)				
13	Volgograd SAM Site B33-2	48-51-43N 44-19-05E	UR 0235-16	SA-2, fan				
14	Volgograd SAM Site B27-2	48-40-15N 44-10-00E	UR 0235-21	SA-2, daisy				
15	Volgograd SAM Site B21-2	48-37-00N 44-18-45E	UR 0235-21	SA-2, fan				
16	Volgograd SAM Support Facility 2	48-26-20N 44-30-05E	UR 0235-21	Type I (rectangular)				
17	Volgograd SAM Site C17-2	48-17-00N 44-28-00E	UR 0235-21	SA-2, daisy				
18	Volgograd SAM Site B15-2	48-26-50N 44-49-20E	UR 0235-22	SA-2, link				
19	Volgograd SAM Site B09-2	48-42-20N 44-55-10E	UR 0235-22	SA-2, link				
Kapustin Yar/Vladimirovka SAM Defenses (in defense of Kapustin Yar/Vladimirovka Missile Test Center-KY/Vlad MTC--and Vladimirovka Advanced Weapons and Research Complex--VAWARC: R & D facilities for SAM, MRBM, IRBM, ASM, and cruise missile systems)								
21	KY/Vlad MTC SAM Site B30-2	48-47-00N 45-44-00E	UR 0235-22	SA-2, star			This former site area was unoccupied and completely overgrown when seen on [redacted]	
22	KY/Vlad MTC SAM Site B21-2	48-33-00N 45-53-20E	UR 0235-22	SA-2, star				
23	Akhhtubinsk SAM Site A03-2	48-21-55N 46-13-05E	UR 0235-22	SA-2, star				
24	Akhhtubinsk SAM Site A04-2	48-24-05N 46-15-40E	UR 0235-22	SA-2, probable star				
25	KY/Vlad MTC SAM Site B09-2	48-42-05N 46-16-00E	UR 0235-22	SA-2, star				
26	KY/Vlad MTC SAM Launch Complex	48-48-00N 45-45-00E	UR 0235-22	SAM R & D and training center				
28	KY/Vlad MTC SAM Site C30-3	48-49-14N 45-30-15E	UR 0235-17	SA-3, configuration A				
29	KY/Vlad MTC SAM Site D31-3	48-45-20N 45-16-30E	UR 0235-22	SA-3, configuration A				
30	KY/Vlad MTC SAM Site B31-3	48-49-40N 45-38-15E	UR 0235-17	SA-3, configuration A				

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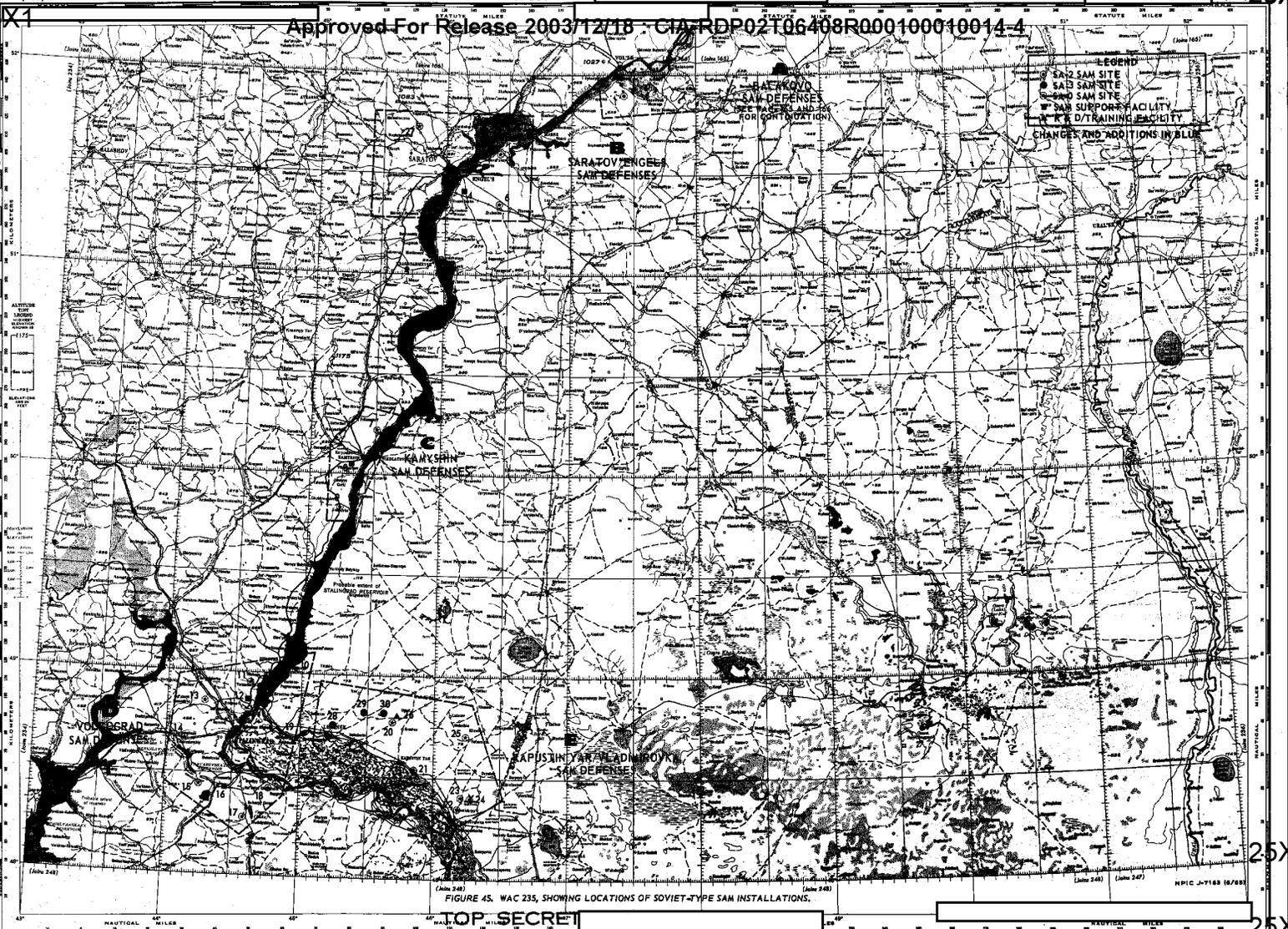
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Table 43. SAM Installations on WAC 236

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
A Orenburg SAM Defenses (in defense of major transportation, industrial, and military complex in southern Urals region; locomotive, vehicle, and tractor parts; ammunition, tools, machinery, and airframes)							
1	Orenburg SAM Site A25-2, [redacted]	51-45-00N 54-56-25E	UR 0286-2	SA-2, configuration undetermined			Although the Orenburg area appears to have strategic significance, this is the only SAM site identified thus far in the area, and it appears to be a training site.
B Aktyubinsk IRBM Complex SAM Defenses (in defense of Aktyubinsk IRBM Complex)							
2	Aktyubinsk SAM Site E28-2, [redacted]	49-48-50N 56-28-30E	UR 0286-13	SA-2, configuration undetermined			The launch positions at this site are revetted, but no service road configuration is visible. There are no site support buildings.
3	Aktyubinsk SAM Site C28-2, [redacted]	49-52-40N 56-52-30E	UR 0286-13	SA-2, configuration undetermined			
4	Aktyubinsk SAM Site D20-2, [redacted]	49-45-00N 57-00-00E	UR 0286-13	SA-2, configuration undetermined			
5	Aktyubinsk SAM Site C17-2, [redacted]	49-53-25N 57-24-50E	UR 0286-13	SA-2, star			
6	Aktyubinsk SAM Support Facility, [redacted]	49-55-00N 57-25-00E	UR 0286-14	Type II (square)			
14	Aktyubinsk SAM Site C11-2, [redacted]	50-09-00N 57-52-50E	UR 0286-14	SA-2, configuration undetermined			
C Orsk SAM Defenses (in defense of Orsk: nickel combine, POL refining and storage facilities, heavy machinery plant; and metallurgical combine at Novo Troitsk)							
7	Orsk SAM Site C28-2, [redacted]	50-46-30N 57-37-10E	UR 0286-9	SA-2, probable star			This site is unrevetted.
8	Orsk SAM Site B20-2, [redacted]	50-57-30N 58-25-00E	UR 0286-9	SA-2, star			
9	Orsk SAM Site B20A-2, [redacted]	50-57-30N 58-25-05E	UR 0286-9	SA-2, configuration undetermined			
10	Orsk SAM Site B15-2, [redacted]	51-00-10N 58-50-35E	UR 0286-9	SA-2, probable star			This site is unrevetted.
11	Orsk SAM Site B16A-2, [redacted]	51-00-12N 58-50-33E	UR 0286-9	SA-2, configuration undetermined			
12	Orsk SAM Site C10-2, [redacted]	51-14-30N 59-06-45E	UR 0286-4	SA-2, probable star			
13	Orsk SAM Support Facility, [redacted]	51-24-00N 58-02-30E	UR 0286-4	Type II (square)			

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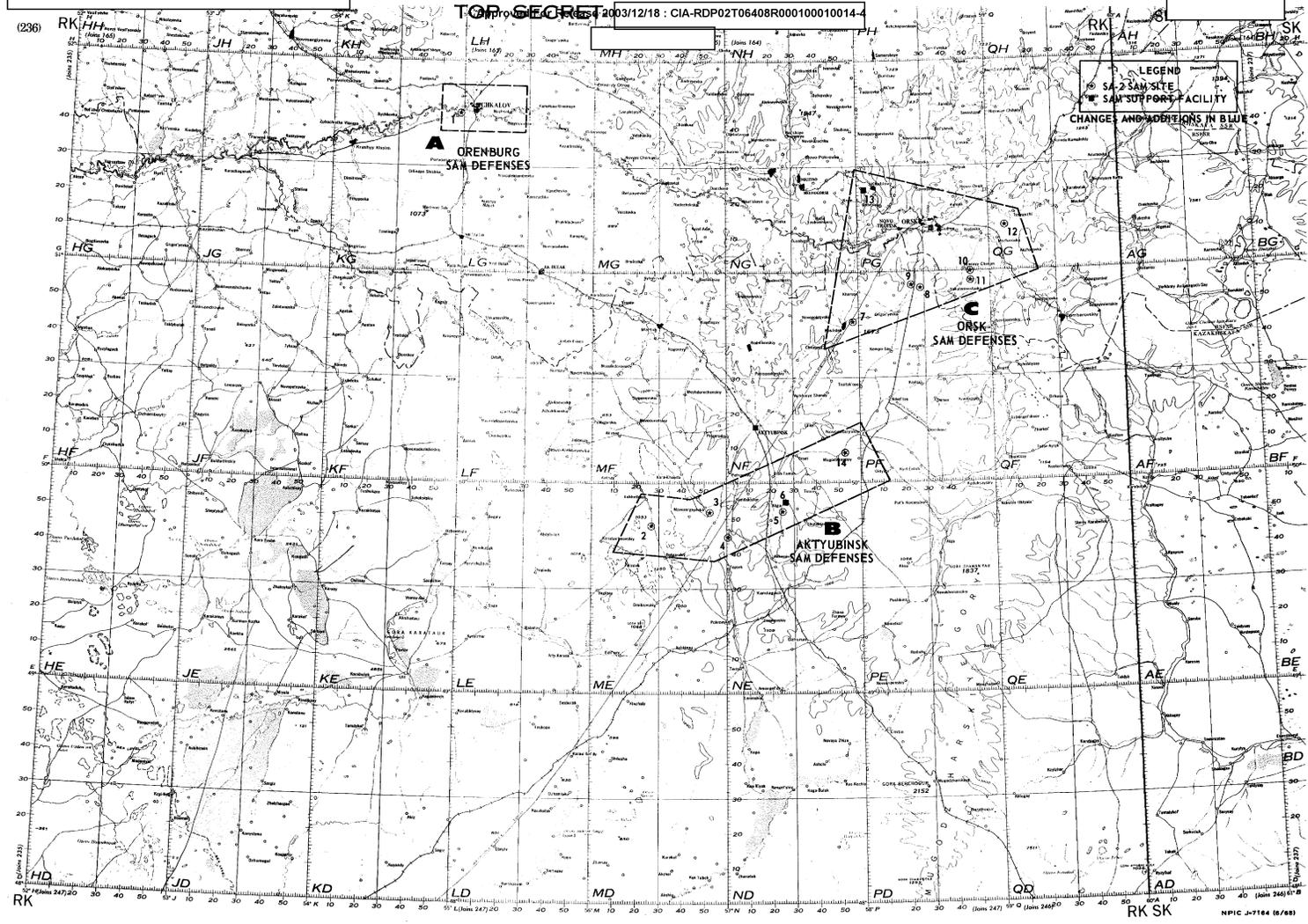
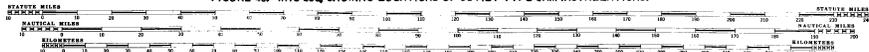


FIGURE 46. WAC 236, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.



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ILEK RIVER (236)

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Table 44. SAM Installations on WAC 238

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated ‡	Remarks
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Note - Installations whose defensive role cannot be determined and which are not located within the limits of a SAM Defense area are found under subheading C-"Defensive Role Undetermined."

Dolon Airfield SAM Defenses (in defense of Soviet Long Range Air Arm Base)

1	Dolon SAM Site B30-2	50-36-50N 78-87-10E	UR 0288-10	SA-2, link			
2	Dolon SAM Site C27-2	50-27-00N 78-34-00E	UR 0288-10	SA-2, link			

C Defensive Role Undetermined

4	Dolon SAM Site D28A-2	50-34-45N 78-11-40E	UR 0288-10	SA-2, configuration undetermined			This site is unrevetted.
5	Dolon SAM Site D28-2	50-34-45N 78-11-00E	UR 0288-10	SA-2, probable link			

ified activity has been deleted as a defensive installation. A similar installation has been identified near Ili, USSR. The Ili installation is associated with a Krug and communications/receiving station. Therefore, this unidentified activity is considered electronic.

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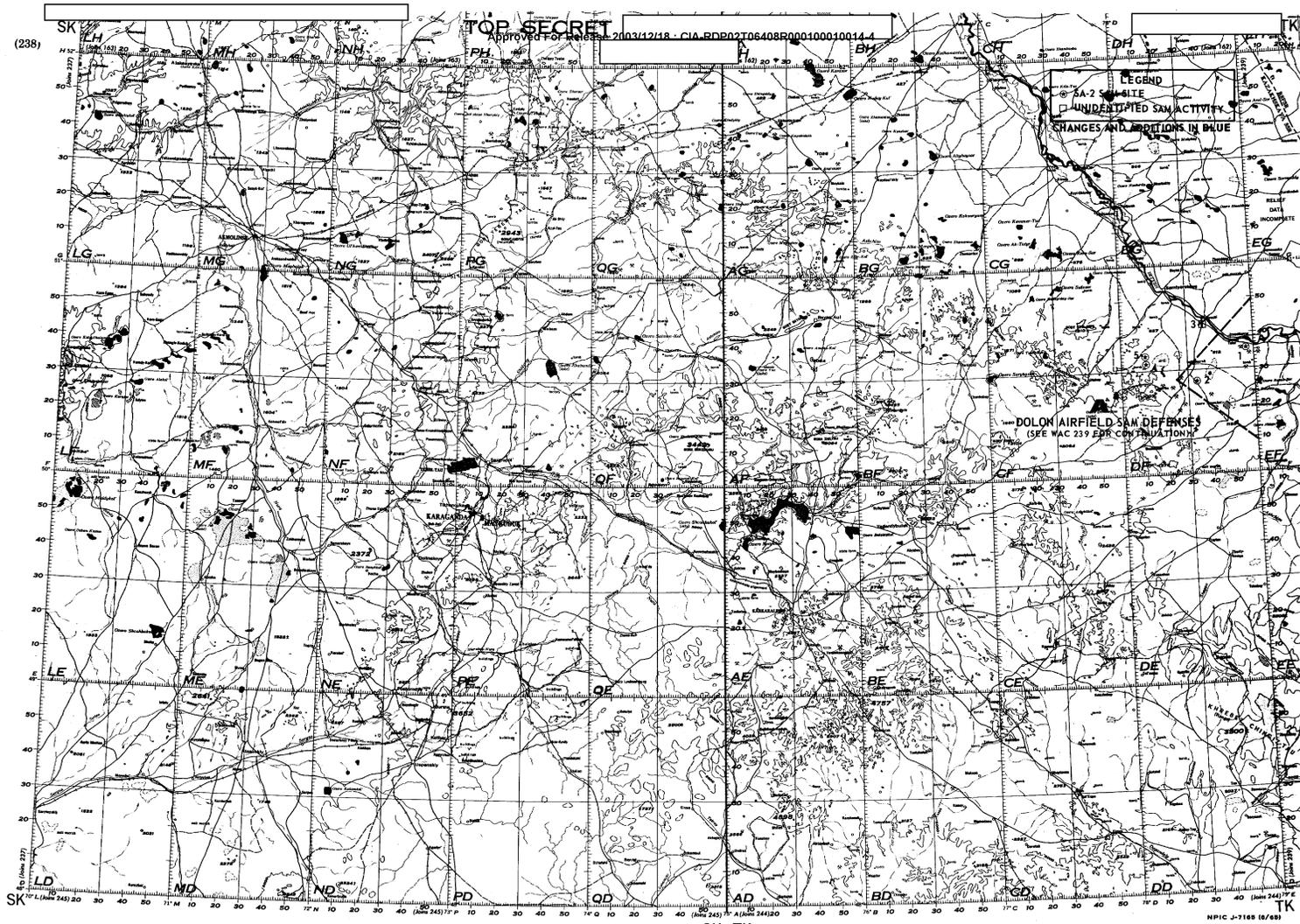


FIGURE 47. WAC 238, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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NURA RIVER (238)
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Table 46. SAM Installations on WAC 239

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks	
A Dolon Airfield SAM Defenses (in defense of Soviet Long Range Air Arm Base [redacted])								
1	Dolon SAM Site B22-2, [redacted]	50-28-59N 79-02-10E	UR 0239-11	SA-2, link			[redacted]	
2	Dolon SAM Site A15-2, [redacted]	50-28-10N 79-21-30E	UR 0239-11	SA-2, link				
3	Dolon SAM Support Facility, [redacted]	50-27-10N 79-13-30E	UR 0239-6	Type I (rectangular)				
4	Dolon SAM Site A04-2, [redacted]	50-27-30N 79-19-40E	UR 0239-6	SA-2, probable link				
B Rubtsovsk Area SAM Defenses (probably in defense of Central Asian border of USSR and Rubtsovsk tractor plant and power plant)								
5	Rubtsovsk SAM Site B30-2, [redacted]	51-33-10N 80-49-05E	UR 0239-2	SA-2, link			[redacted]	
6	Rubtsovsk SAM Support Facility, [redacted]	51-29-00N 81-06-30E	UR 0239-2	Type II (square)				
7	Rubtsovsk SAM Site B20-2, [redacted]	51-20-15N 81-08-00E	UR 0239-2	SA-2, link				
8	Rubtsovsk SAM Site A09-2, [redacted]	51-31-30N 81-26-10E	UR 0239-2	SA-2, configuration undetermined				
C USSR Central Asian Border Defenses (in defense of the Central Asian border of the USSR)								
9	Ayaguz SAM Site B03-2, [redacted]	48-10-00N 80-30-00E	UR AMS Series 1301 Sheet NM-44, 2d ed, Mar 58	SA-2, link				
14	Ayaguz SAM Site A86-2, [redacted]	48-04-55N 80-22-00E	UR ONC E-6	SA-2, configuration undetermined				
D Zyrnyaovsk SAM Defenses (defense role undetermined)								
10	Ust Kamenogorsk SAM Site C15-2, [redacted]	49-36-05N 88-03-25E	UR 0239-13	SA-2, configuration undetermined				
11	Zyrnyaovsk SAM Site C28-2, [redacted]	49-44-20N 88-36-15E	UR 0239-13	SA-2, link				
12	Ust Kamenogorsk SAM Support Facility, [redacted]	49-40-40N 88-13-50E	UR 0239-13	Type II (square)				

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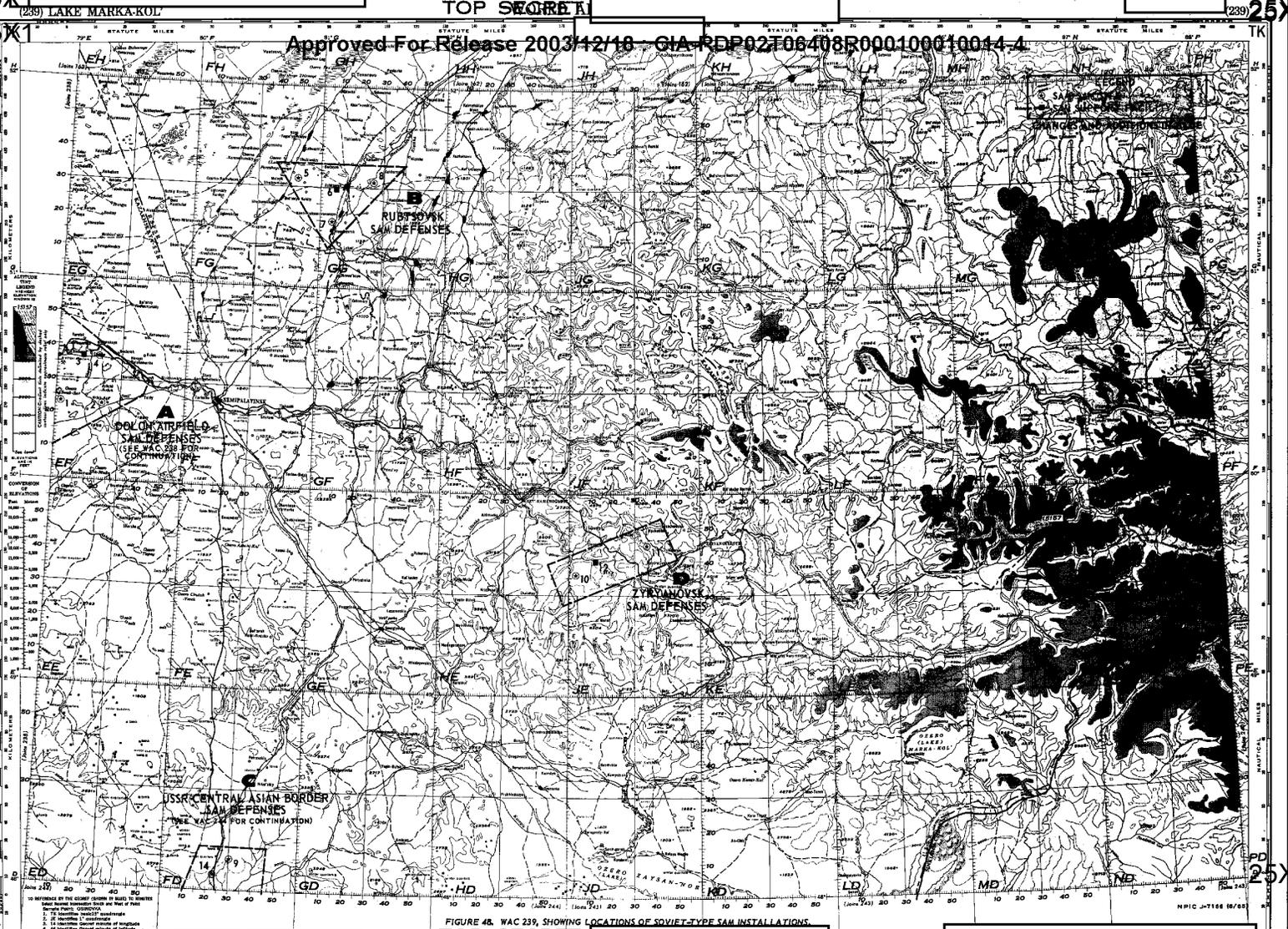


FIGURE 4B. WAC 239, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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ORINA-MONGOLIA-U.S.S.R.

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Table 46. SAM Installations on WAC 244

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated ‡	Remarks
▲ USSR Central Asian Border SAM Defenses (in defense of the central Asian border of the USSR)							
25X1	1 Sary Ozek SAM Site B24-2, [redacted]	44-11-15N 77-37-10E	UR 0244-22	SA-2, link	[redacted]	[redacted]	Also defends Sary Ozek IRBM Complex. A secured vehicle park is one nm east [redacted]. [redacted] It contained 20 missile transporters, 15 transporter-trailers, 6 prime movers, 2 loaded missile transporters, and numerous canisters. The installation is similar to several SAM assembly areas seen in Cuba.
25X1	2 Sary Ozek SAM Site A15-2, [redacted]	44-21-00N 78-00-00E	UR 0244-22	SA-2, link	[redacted]	[redacted]	
	3 Sary Ozek SAM Site B39-2, [redacted]	44-28-05N 77-31-35E	UR 0244-22	SA-2, probable link	[redacted]	[redacted]	
	4 Sary Ozek SAM Site B36-2, [redacted]	44-37-00N 77-57-50E	UR 0244-22	SA-2, link	[redacted]	[redacted]	
25X1	5 Sary Ozek SAM Support Facility, [redacted]	44-37-30N 77-57-30E	UR 0244-22	Type II (square)	[redacted]	[redacted]	
25X1	6 Ush-Tohe SAM Site B19-2, [redacted]	44-59-05N 77-56-10E	UR 0244-17	SA-2, link	[redacted]	[redacted]	This unrevetted site is collocated with Aktogay SAM Site B02-2. It was previously carried as a Category 2 SA-0 SAM Site.
25X1	7 Ush-Tohe SAM Site A02-2, [redacted]	45-23-40N 78-01-45E	UR 0244-17	SA-2, link	[redacted]	[redacted]	
	8 Ush-Tohe SAM Site D06-2, [redacted]	45-04-10N 78-33-40E	UR 0244-18	SA-2, link	[redacted]	[redacted]	
25X1	9 Lepsey SAM Site C21-2, [redacted]	45-59-40N 78-43-15E	UR 0244-13	SA-2, link	[redacted]	[redacted]	
25X1	10 Lepsey SAM Site A05-2, [redacted]	46-14-55N 78-57-10E	UR 0244-13	SA-2, link	[redacted]	[redacted]	
25X1	11 Akhalyk SAM Site A10-2, [redacted]	46-34-45N 79-16-00E	UR 0244-8	SA-2, link	[redacted]	[redacted]	
	12 Aktogay SAM Site A19-2, [redacted]	46-49-05N 79-36-50E	UR 0244-8	SA-2, configuration undetermined	[redacted]	[redacted]	
25X1	13 Aktogay SAM Site B02-2, [redacted]	47-09-45N 79-43-05E	UR 0244-8	SA-2, link	[redacted]	[redacted]	
	14 Aktogay SAM Site B02B-2, [redacted]	47-09-40N 79-43-30E	UR 0244-8	SA-2, configuration undetermined	[redacted]	[redacted]	
	15 Aktogay SAM Site B02A-2, [redacted]	47-10-55N 79-42-55E	UR 0244-8	SA-2, link	[redacted]	[redacted]	
	16 Ayaguz SAM Site A19-2, [redacted]	47-47-30N 80-23-30E	UR 0244-4	SA-2, link	[redacted]	[redacted]	

25X1 †Classification of all photo references on this page is TOP SECRET [redacted] TOP SECRET [redacted] unless otherwise indicated following an individual reference.

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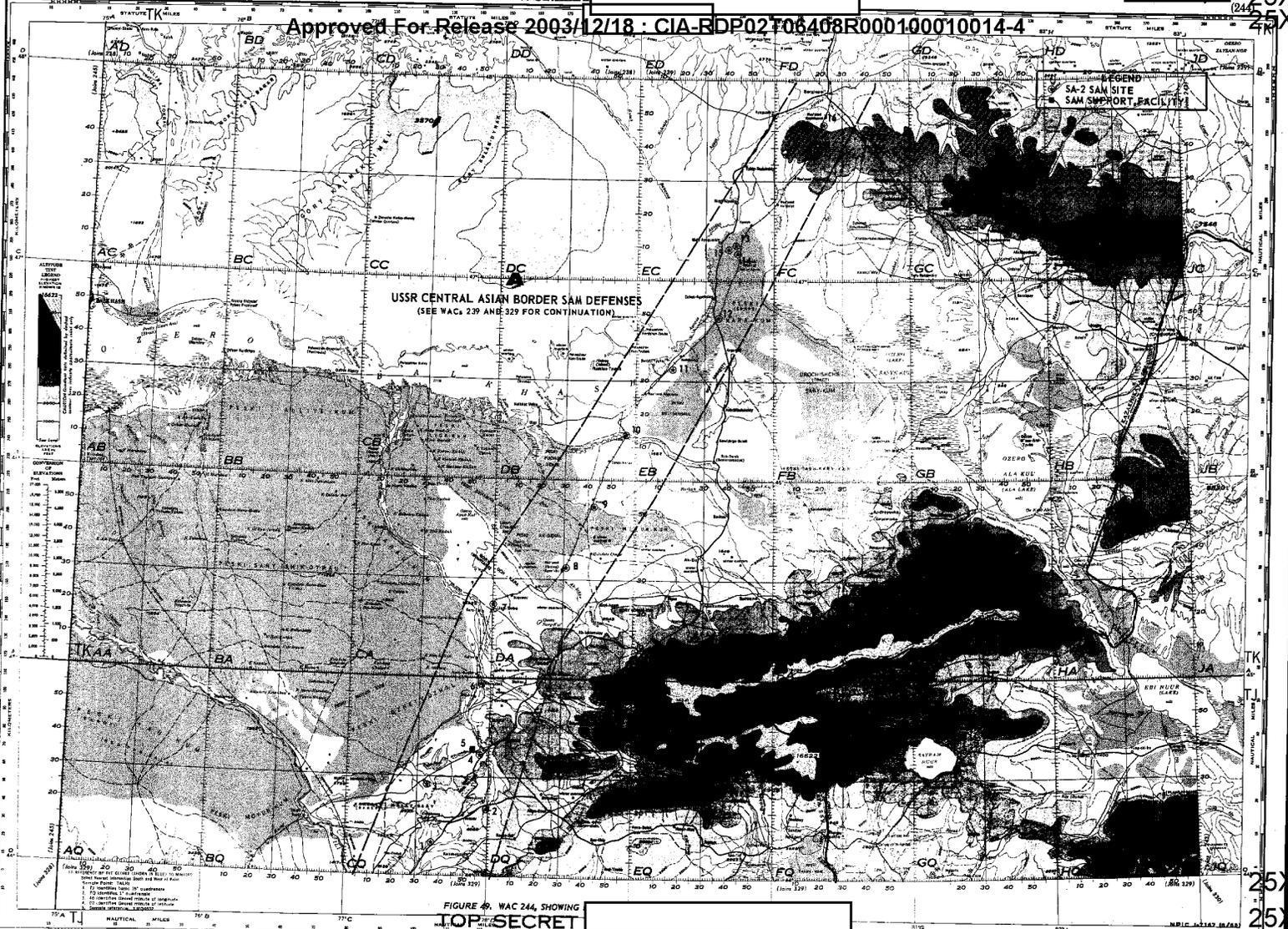
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USSR CENTRAL ASIAN BORDER SAM DEFENSES
(SEE WAC 239 AND 329 FOR CONTINUATION)

LEGEND

- SA-2 SAM SITE
- SAM SUPPORT FACILITY

FIGURE 49. WAC 244, SHOWING

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ALA LAKE (244)
CHINA-USSR

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Table 17. SAM Installations on WAC 245

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
A Sary-Shagan SAM Defenses (in defense of Sary-Shagan Antimissile Test Center--SSATC. Rather than forming an actual defense complex, these sites consist of a group of point defenses required by the extensive area covered by the Sary-Shagan facilities)							
1	SSATC SAM Site B21-2	45-59-30N 72-31-40E	UR 0245-14	SA-2, star	[REDACTED]		This site is located at Launch Complex B, Sary-Shagan. This site is located at Launch Complex A, Sary-Shagan. This facility is located at the Support Base, Sary-Shagan. This site is located at the Support Base, Sary-Shagan. This site is located near Instrumentation Site 1 and the Film Flam station, Sary-Shagan. The entire test center is apparently engaged in AMM-related activity, but Launch Complex A is the most likely AMM launch area.
2	SSATC SAM Site B04-2	46-22-10N 72-51-30E	UR 0245-14	SA-2, star			
3	SSATC SAM Support Facility	46-08-10N 73-28-00E	UR 0245-15	Type II (square)			
4	SSATC SAM Site A26-2	46-05-15N 73-31-10E	UR 0245-15	SA-2, star			
5	SSATC SAM Site B19-2	45-48-00N 73-35-45E	UR 0245-15	SA-2, star			
6	SSATC, Launch Complex A,	46-23-00N 72-52-00E	UR 0245-14	See remarks			
B Operational Role Undetermined							
7	SSATC SAM Training Center,	45-25-00N 78-20-00E	UR 0245-19	SAM training center			This training center has at least three, and probably five, launch sites. The associated facilities do not appear adequate to support a large, sustained effort.

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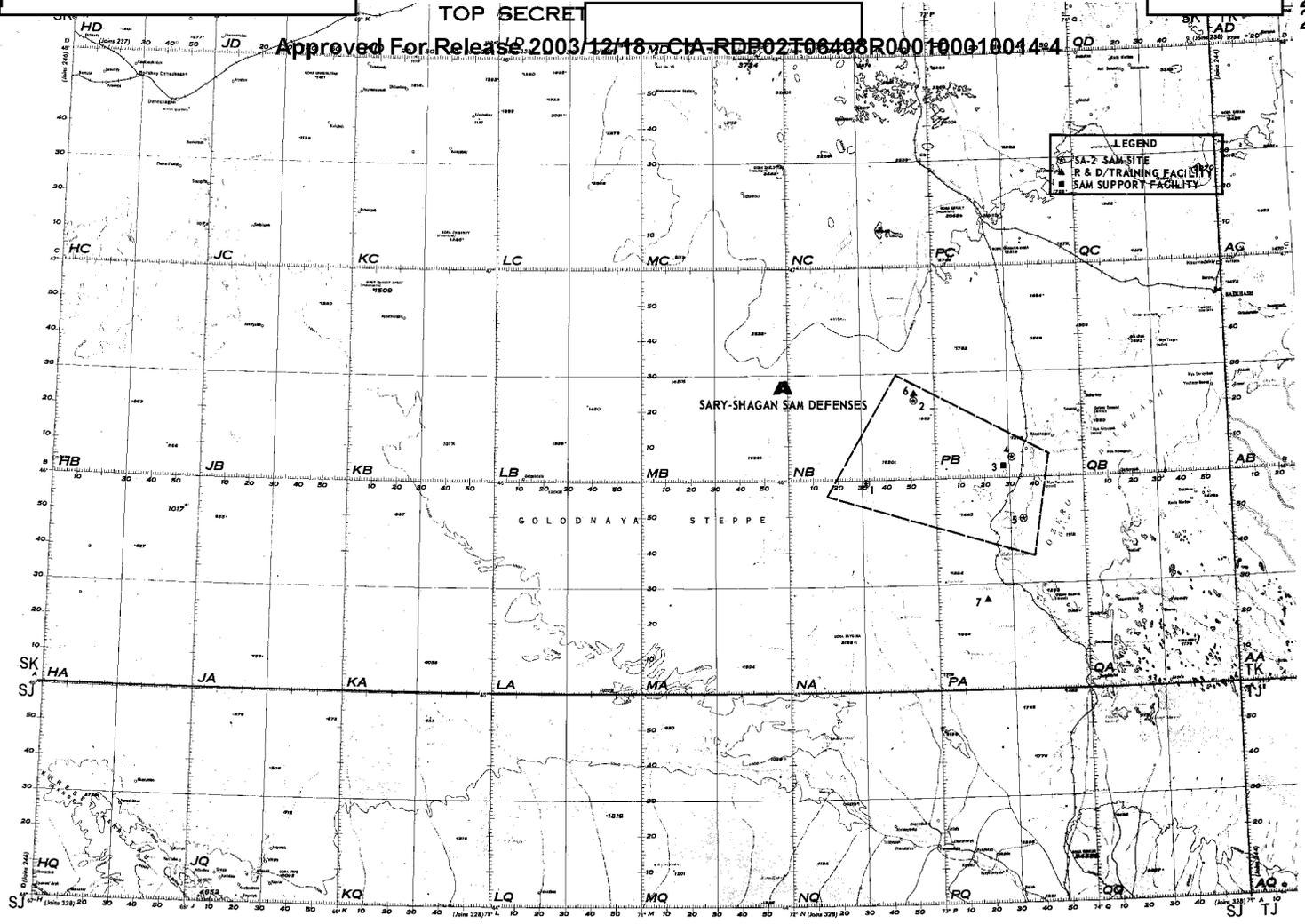


FIGURE 50. WAC 245, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 48. SAM Installations on WAC 246

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
A Tyuratam SAM Defenses (in defense of Tyuratam Missile Test Center--TTMTC: Soviet ICBM and space research and development center)							
1	TTMTC SAM Site B26-2	45-51-45N 63-02-20E	UR 0246-13	SA-2, configuration undetermined			
2	TTMTC SAM Site B26A-2	45-51-40N 63-03-30E	UR 0246-13	SA-2, configuration undetermined			This unrevetted site was previously carried as a category 2 SA-0 SAM Site.
3	TTMTC SAM Site B26B-2	45-51-35N 63-02-50E	UR 0246-13	SA-2, configuration undetermined			This unrevetted site was previously carried as a category 2 SA-0 SAM Site.
4	TTMTC SAM Site B32-2	46-04-10N 63-14-30E	UR 0246-13	SA-2, configuration undetermined			
5	TTMTC SAM Site B32A-2	46-08-55N 63-14-10E	UR 0246-13	SA-2, configuration undetermined			This unrevetted site was previously carried as a category 2 SA-0 SAM Site.
6	TTMTC SAM Site B32B-2	46-04-00N 63-15-00E	UR 0246-13	SA-2, configuration undetermined			This site is unrevetted.
7	TTMTC SAM Site B03-2	46-09-40N 63-36-30E	UR 0246-13	SA-2, configuration undetermined			
8	TTMTC SAM Site B03A-2	46-09-20N 63-36-50E	UR 0246-13	SA-2, configuration undetermined			This unrevetted site was previously carried as a category 2 SA-0 SAM Site.
9	TTMTC SAM Site B06-2	46-00-30N 63-55-10E	UR 0246-14	SA-2, configuration undetermined			
10	TTMTC SAM Site B06A-2	46-00-20N 63-54-40E	UR 0246-14	SA-2, configuration undetermined			This unrevetted site was previously carried as a category 2 SA-0 SAM Site.
11	TTMTC SAM Site B06B-2	46-00-00N 63-54-30E	UR 0246-14	SA-2, configuration undetermined			This unrevetted site was previously carried as a category 2 SA-0 SAM Site.
12	TTMTC SAM Site B13-2	45-48-50N 63-43-35E	UR 0246-13	SA-2, configuration undetermined			
13	TTMTC SAM Site B13A-2	45-48-25N 63-44-15E	UR 0246-13	SA-2, configuration undetermined			This unrevetted site was previously carried as a category 2 SA-0 SAM Site.
14	TTMTC SAM Site B13B-2	45-48-48N 63-44-50E	UR 0246-13	SA-2, configuration undetermined			This unrevetted site was previously carried as a category 2 SA-0 SAM Site.
15	TTMTC SAM Site B21-2	45-42-40N 63-20-20E	UR 0246-13	SA-2, configuration undetermined			
16	TTMTC SAM Site B21A-2	45-42-50N 63-20-20E	UR 0246-13	SA-2, configuration undetermined			This unrevetted site was previously carried as a category 2 SA-0 SAM Site.
17	TTMTC SAM Support Facility	45-53-30N 63-25-50E	UR 0246-13	Type I (rectangular)			
18	TTMTC SAM Site B26C-2	45-51-40N 63-03-00E	UR 0246-13	SA-2, configuration undetermined			
19	TTMTC SAM Site B26D-2	45-52-10N 63-01-50E	UR 0246-13	SA-2, configuration undetermined			

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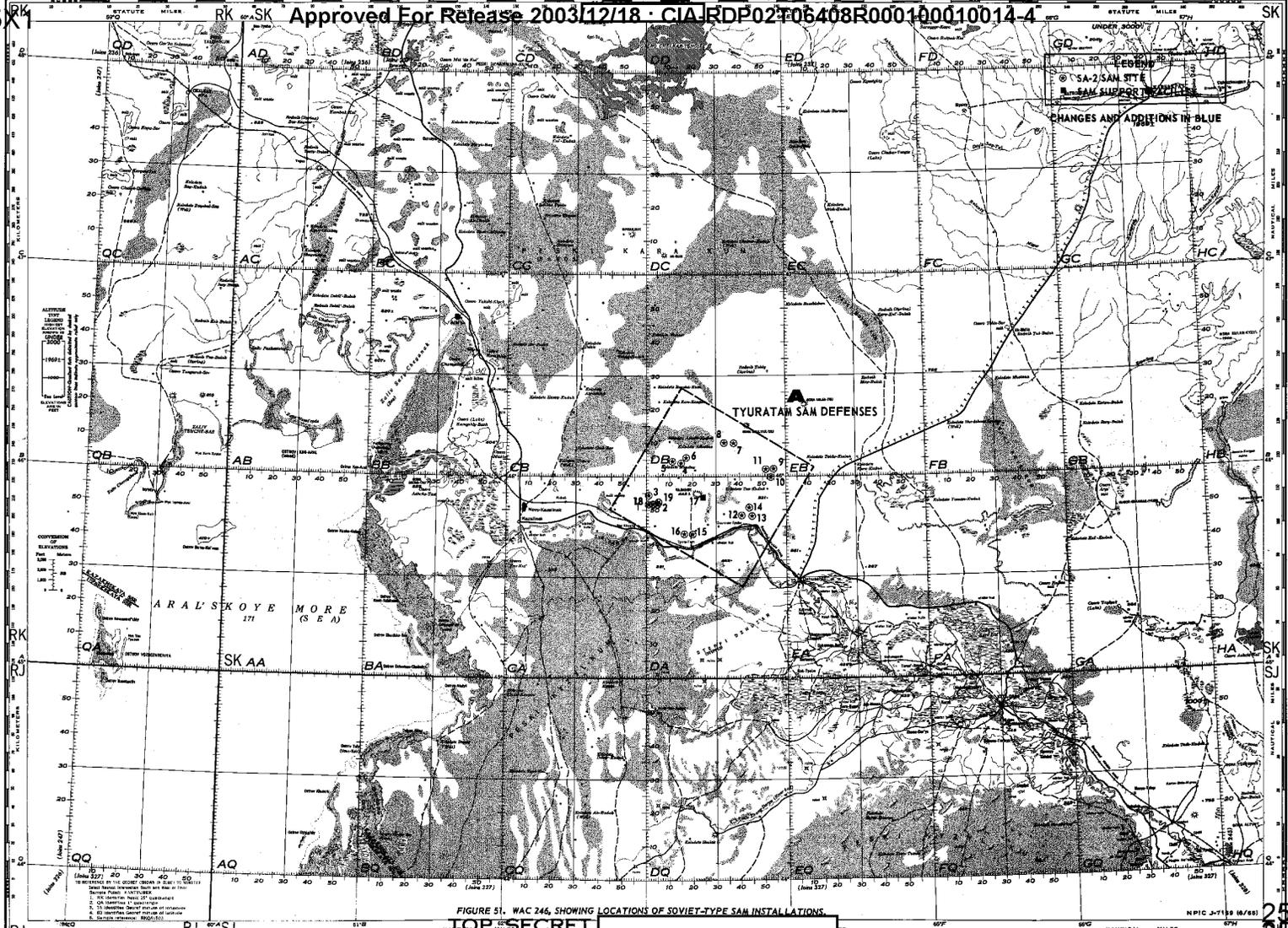


FIGURE 51. WAC 246, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 49. SAM Installations on WAC 248

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
A Astrakhan SAM Defenses (in defense of major Caspian Sea port with shipyards, strategic transportation, and POL storage facilities)							
1	Astrakhan SAM Support Facility, [redacted]	46-26-00N 47-56-20E	UR 0248-9	Type II (square)	[redacted]		
2	Astrakhan SAM Site A34-2, [redacted]	46-26-08N 47-57-10E	UR 0248-9	SA-2, link			
3	Astrakhan SAM Site A14-2, [redacted]	46-14-50N 48-11-02E	UR 0248-14	SA-2, link			
B Kordon SAM Training Center (no defense role--fulfills a training function only)							
4	Kordon SAM Training Center, [redacted]	47-24-00N 48-08-00E	UR PCL 248B	See remarks			The facilities at this installation consist of 9 SA-2 sites (5 fans, 1 link, 1 probable link, 2 undetermined), a Type I (rectangular) SAM support facility, a landing strip, and a housing and support area. The installation probably handles the largest portion of the Soviet SAM training program. Collateral reports indicate that Eastern European officers have undergone training in SA-2 systems here.

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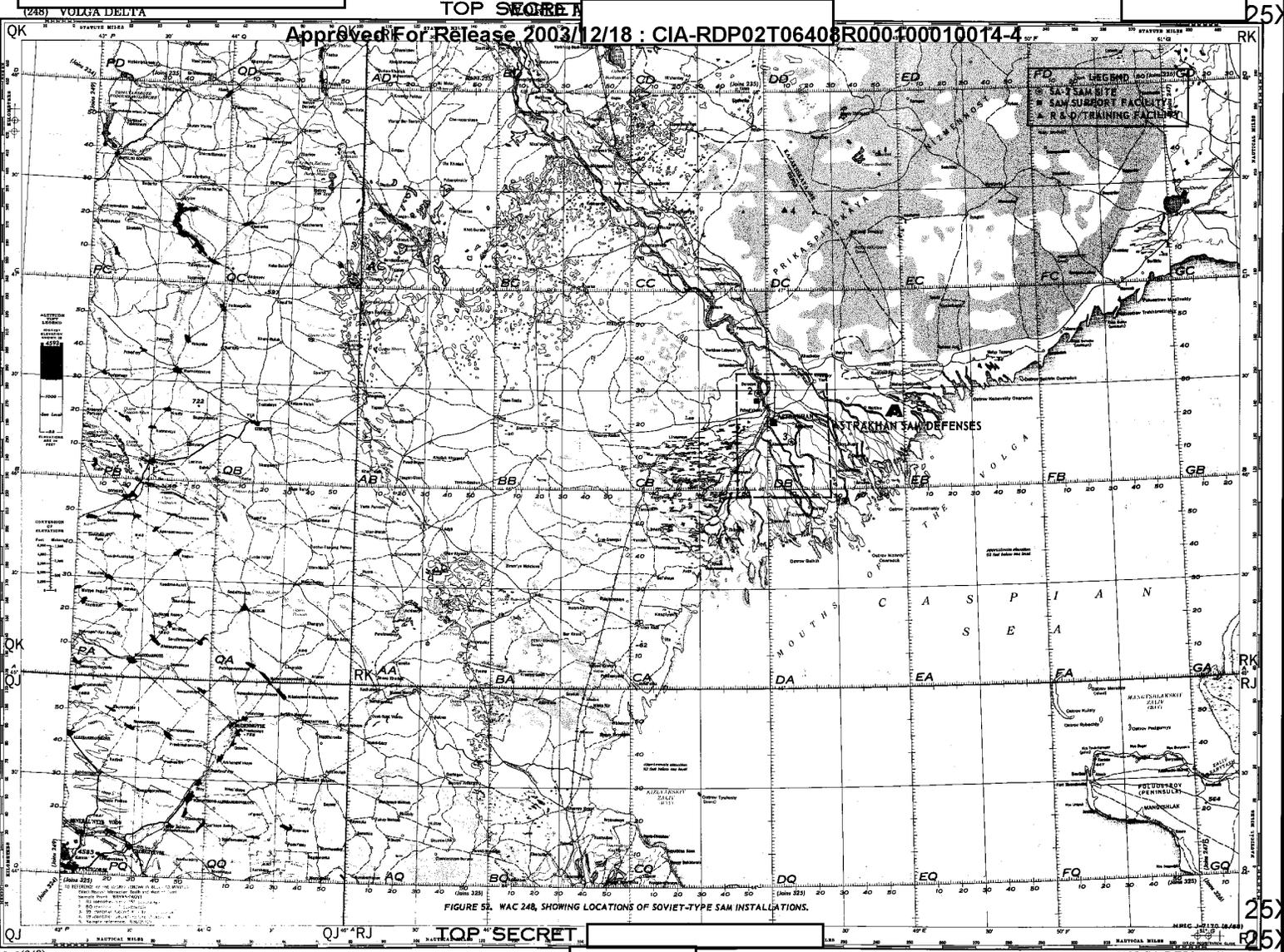
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25X

VOLGA DELTA (248)

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Table 50. SAM installations on WAC 249

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
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Note - Installations whose defensive role cannot be determined and which are not located within the limits of a SAM defense area are found under subheading J - "Defensive Role Undetermined."

A Zaporozhye SAM Defenses (in defense of Zaporozhye: a major industrial complex which includes an alumina plant, an aluminum plant, a large steel plant, and an aircraft engine plant)

25X1	1	Zaporozhye SAM Site B08-2, [redacted]	47-52-25N 35-24-30E	UR 0249-1	SA-2, star		
25X1	2	Zaporozhye SAM Support Facility, [redacted]	47-44-40N 35-15-50E	UR 0249-1	Type II (square)		
25X1	3	Zaporozhye SAM Site B10-2, [redacted]	47-36-35N 35-18-15E	UR 0249-1	SA-2, star		

B Berydansk SAM Defenses (in defense of Berydansk)

25X1	4	Berydansk SAM Site A30-2, [redacted]	46-47-20N 36-41-45E	UR 0249-7	SA-2, star		
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C Zhdanov SAM Defenses (in defense of Zhdanov: a major industrial and port complex on the Azov Sea)*

25X1	5	Zhdanov SAM Site B28-2, [redacted]	46-58-10N 37-20-00E	UR 0249-7	SA-2, star		
25X1	6	Zhdanov SAM Site B36-2, [redacted]	47-18-43N 37-31-40E	UR 0249-2	SA-2, star		
25X1	7	Zhdanov SAM Site B09-2, [redacted]	47-07-45N 37-54-00E	UR 0249-7	SA-2, star		
25X1	81	Zhdanov SAM Support Facility, [redacted]	47-08-40N 37-27-10E	UR 0249-7	Type II (square)		

D Donetsk SAM Defenses (in defense of Donetsk: a large industrial complex which includes an ammunition plant, a coke-chemical plant, and an iron and steel plant)

25X1	8	Donetsk SAM Site B23-2, [redacted]	47-47-00N 37-34-20E	UR 0249-2	SA-2, star		
25X1	9	Donetsk SAM Support Facility, [redacted]	47-53-00N 37-47-15E	UR 0249-2	Type I (rectangular)		
25X1	10	Donetsk SAM Site B16-2, [redacted]	47-45-30N 37-59-45E	UR 0249-2	SA-2, star		

E Taganrog SAM Defenses (in defense of Taganrog: industrial production--airframes, munitions, metallurgy; and transportation center)*

25X1	11	Taganrog SAM Site A04-2, [redacted]	47-19-10N 39-00-30E	UR 0249-8	SA-2, star		
25X1	32	Taganrog SAM Site B28-2, [redacted]	47-10-20N 38-38-40E	UR 0249-8	SA-2, star		

F Rostov SAM Defenses (in defense of Rostov--a major industrial production center: aircraft assembly and machinery, POL storage, port and rail facilities)

25X1	12	Rostov SAM Site B29-2, [redacted]	47-17-25N 39-26-50E	UR 0249-8	SA-2, link		
25X1	13	Rostov SAM Support Facility, [redacted]	47-17-30N 39-40-30E	UR 0249-8	Type I (rectangular)		
25X1	14	Rostov SAM Site A06-2, [redacted]	47-18-00N 39-52-05E	UR 0249-4	SA-2, star		
25X1	15	Rostov SAM Site B16-2, [redacted]	47-01-55N 39-53-45E	UR 0249-9	SA-2, link		
25X1	16	Rostov SAM Site B21-2, [redacted]	47-05-15N 39-36-35E	UR 0249-8	SA-2, star		

25X1	38	Rostov SAM Site B23-2, [redacted]	47-02-50N 39-26-30E	UR 0249-8	SA-2, configuration undetermined		
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G USSR Southern Border SAM Defenses (in defense of the southern border of the USSR; major naval base and POL storage at Feodosiya; naval POL storage, and rail facilities at Novorossiysk and Tuapse; air defense sector and fighter division headquarters at Krymsk; iron, steel, coke-chemical plants, POL storage, major air base with special weapons storage, air defense sector headquarters, and naval facilities at Kerch)

25X1	17	Feodosiya SAM Site B24-2, [redacted]	44-49-40N 35-02-15E	UR 0249-16	SA-2, star		
25X1	18	Feodosiya SAM Site A16-2, [redacted]	45-00-40N 35-23-50E	UR 0249-16	SA-2, star		
25X1	19	Feodosiya SAM Site C08-2, [redacted]	45-13-40N 35-52-05E	UR 0249-16	SA-2, star		
25X1	20	Kerch SAM Site B20-2, [redacted]	45-07-50N 36-21-00E	UR 0249-16	SA-2, star		
25X1	21	Anapa SAM Site C33-2, [redacted]	45-10-10N 37-01-39E	UR 0249-17	SA-2, configuration undetermined		

*These sites may represent part of the secondary barrier defense of the southern border of the USSR.

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FIGURE 53. WAC 249, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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SEA OF AZOV (249)

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Table 50. SAM Installations on WAC 249 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
25X1 22	Anapa SAM Site A07-2, [redacted]	44-54-20N 37-28-30E	UR 0249-17	SA-2, star			
25X1 23	Novorossiysk SAM Site A18-2, [redacted]	44-40-10N 37-47-00E	UR 0249-22	SA-2, star			
25X1 24	Novorossiysk SAM Support Facility, [redacted]	44-40-15N 37-46-45E	UR 0249-22	Type II (square)			
25X1 25	Novorossiysk SAM Site B18-2, [redacted]	44-32-20N 36-06-30E	UR 0249-22	SA-2, star			
25X1 26	Tuapse SAM Site C31-2, [redacted]	44-18-50N 38-48-00E	UR 0249-23	SA-2, star			
25X1 27	Tuapse SAM Site A28-2, [redacted]	44-05-50N 39-02-40E	UR 0249-23	SA-2 (see remarks)			This site is on the summit of a narrow ridge. It displays no configuration; the service roads merely follow the contours of the ridge.
25X1 34	Feodosiya SAM Support Facility, [redacted]	45-05-00N 35-11-50E	UR 0249-16	Type II (square)			
25X1 35	Feodosiya SAM Site B09-2	45-08-40N 35-50-10E	UR 0249-16	SA-2, configuration undetermined			
	■ Maykop MRBM Complex SAM Defenses (in defense of Maykop MRBM Complex)						
25X1 28	Maykop MRBM Complex SAM Site B23-2, [redacted]	44-20-30N 39-41-10E	UR 0249-23	SA-2, star			
25X1 29	Maykop MRBM Complex SAM Site A13-2, [redacted]	44-23-40N 40-09-10E	UR 0249-24	SA-2, star			
25X1 36	Maykop MRBM Complex SAM Site C80-2, [redacted]	44-37-40N 39-29-45E	UR 0249-23	SA-2, star			
	■ USSR Southern Border Secondary SAM Defenses (the sites form part of a secondary barrier defense of the southern border of the USSR between the Sea of Azov and the Caspian Sea)						
25X1 30	Pyatigorsk SAM Site C31-2, [redacted]	44-19-20N 42-32-00E	UR 0249-25	SA-2, star			
25X1 37	Yeysk Probable SAM Support Facility, [redacted]	46-37-40N 38-15-30E	UR 0249-8	Type II (square)			
25X1 38	Yeysk SAM Site A19-2, [redacted]	46-37-40N 38-15-30E	UR 0249-8	SA-2, star			
25X1 39	Kushchevskaya SAM Site B27-2, [redacted]	46-33-40N 39-22-30E	UR 0249-8	SA-2, configuration undetermined			
25X1 40	Kushchevskaya SAM Site C21-2, [redacted]	46-11-20N 39-25-10E	UR 0249-13	SA-2, configuration undetermined			
25X1 41	Kropotkin SAM Site B24-2, [redacted]	45-18-20N 40-17-30E	UR 0249-19	SA-2, configuration undetermined			
25X1 42	Armavir SAM Site A29-2, [redacted]	45-00-40N 41-00-30E	UR 0249-19	SA-2, configuration undetermined			
25X1 43	Nevinnomyssk SAM Site B21-2, [redacted]	44-26-50N 41-49-10E	UR 0249-25	SA-2, configuration undetermined			
	J Defensive Role Undetermined						
25X1 44	Melitopol SAM Site D06-2, [redacted]	47-06-50N 35-59-00E	UR 0249-16	SA-2, configuration undetermined			

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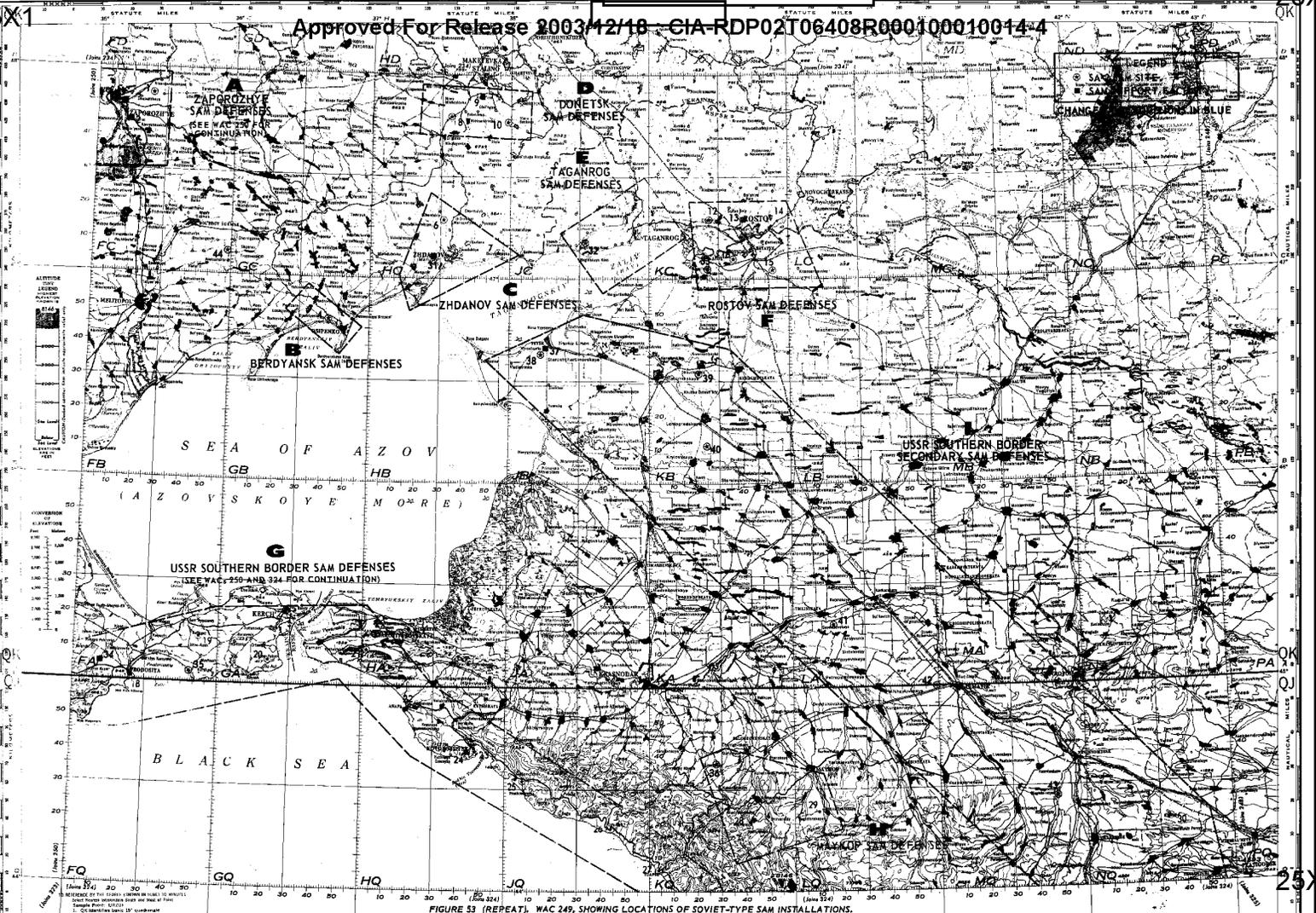


FIGURE 53 (REPEAT), WAC 249, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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SEA OF AZOV (249)

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Table 51. SAM Installations on WAC 850

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated‡	Remarks
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Note - Installations whose defense roles cannot be determined and which are not located within the limits of a SAM Defense area are found under subheading O - "Defensive Role Undetermined."

A Kishinev to Kamenets - Podolskiy SAM Defenses (in defense of the southwestern border of the USSR between Kishinev and Kamenets-Podolskiy)

1	Kishinev SAM Site B33-2, [redacted]	47-11-00N 28-38-20E	UR 0250-7	SA-2, link			
2	Kishinev SAM Site B22-2, [redacted]	46-49-20N 28-38-13E	UR 0250-7	SA-2, star			
3	Kishinev SAM Support Facility, [redacted]	46-57-30N 28-52-30E	UR 0250-7	Type II (square)			
4	Kishinev SAM Site B18-2, [redacted]	46-55-00N 29-04-00E	UR 0250-7	SA-2, star			
54	Beltsy SAM Site B12-2, [redacted]	47-39-30N 28-15-40E	UR 0250-1	SA-2, configuration undetermined			

B Balta SAM Defenses (in defense of Balta regional military storage installation [redacted] and Balta MRBM Complex)

5	Balta MRBM Complex SAM Site A17-2, [redacted]	47-56-50N 29-36-20E	UR 0250-2	SA-2, configuration undetermined			
6	Kotovsk SAM Site A11-2, [redacted]	47-44-20N 29-37-30E	UR 0250-2	SA-2, star			
7	Balta SAM Support Facility, [redacted]	47-44-45N 29-57-30E	UR 0250-2	Type II (square)			
8	Kotovsk SAM Site B11-2, [redacted]	47-41-10N 30-00-00E	UR 0250-2	SA-2, star			

C Pervomaysk SAM Defenses (in defense of Pervomaysk IRBM Complex)

9	Pervomaysk SAM Site B21-2, [redacted]	47-49-20N 30-41-05E	UR 0250-3	SA-2, star			
10	Pervomaysk SAM Site B14-2, [redacted]	47-50-10N 31-11-00E	UR 0250-3	SA-2, star			

D Belgorod-Dnestrovskiy SAM Defenses (in defense of Belgorod-Dnestrovskiy)*

11	Belgorod-Dnestrovskiy SAM Site B25-2, [redacted]	46-07-25N 30-04-10E	UR 0250-12	SA-2, star			
12	Belgorod-Dnestrovskiy SAM Support Facility, [redacted]	46-07-30N 30-04-10E	UR 0250-12	Type II (square)			

E Odessa SAM Defenses (in defense of Odessa--major industrial and military center and important Black Sea port; shipyard; mining and agricultural machinery production; POL refinery; vehicle assembly plants; Odessa military district and air defense sector headquarters)

13	Odessa SAM Site A28-2, [redacted]	46-28-42N 30-29-30E	UR 0250-8	SA-2, star			
14	Odessa SAM Support Facility, [redacted]	46-32-00N 30-39-00E	UR 0250-8	Type I (rectangular)			
15	Odessa SAM Site B35-2, [redacted]	46-39-25N 30-40-10E	UR 0250-8	SA-2, star			
16	Odessa SAM Site A05-2, [redacted]	46-33-34N 30-59-10E	UR 0250-8	SA-2, fan			
17	Odessa SAM Site A05-3, [redacted]	46-34-40N 30-59-00E	UR 0250-8	SA-3, configuration F			
18	Odessa SAM Site A19-2, [redacted]	46-22-15N 30-44-15E	UR 0250-8	SA-2, star			
19	Odessa SAM Site A19-3, [redacted]	46-21-55N 30-42-40E	UR 0250-13	SA-3, configuration F			
55	Odessa SAM Site A28-3, [redacted]	46-29-00N 30-29-40E	UR 0250-8	SA-3, configuration G			
56	Odessa SAM Site B35-3, [redacted]	46-39-25N 30-40-20E	UR 0250-8	SA-3, configuration G			
57	Odessa SAM Site B20-2, [redacted]	46-17-00N 30-38-20E	UR 0250-13	SA-2, configuration undetermined			

F Nikolayev SAM Defenses (in defense of Nikolayev, a major port of the Black Sea area; two major shipyards and a light jet bomber base)*

20	Nikolayev SAM Site B27-2, [redacted]	46-56-55N 31-44-35E	UR 0250-9	SA-2, star			
21	Nikolayev SAM Site B35-2, [redacted]	47-07-50N 31-55-00E	UR 0250-9	SA-2, star			
22	Nikolayev SAM Support Facility, [redacted]	46-59-00N 32-09-00E	UR 0250-9	Type I (rectangular)			
23	Nikolayev SAM Site B09-2, [redacted]	46-58-00N 32-15-30E	UR 0250-9	SA-2, star			
24	Nikolayev SAM Site A19-2, [redacted]	46-48-15N 31-58-00E	UR 0250-9	SA-2, star			

G Krivoy Rog SAM Defenses (in defense of Krivoy Rog, center of the Krivoy Rog iron-ore range, and large industrial complex: large metallurgical plant and numerous heavy industries; air base for fighters and light bombers)

25	Krivoy Rog SAM Site B26-2, [redacted]	47-50-05N 33-01-30E	UR 0250-4	SA-2, star			
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*Although these sites are grouped in defense of specific targets, they provide sufficient overlapping coverage to act as the southern border defense between Simferopol and the Rumanian border area. The obvious southern border begins with the Simferopol SAM sites and proceeds eastward.

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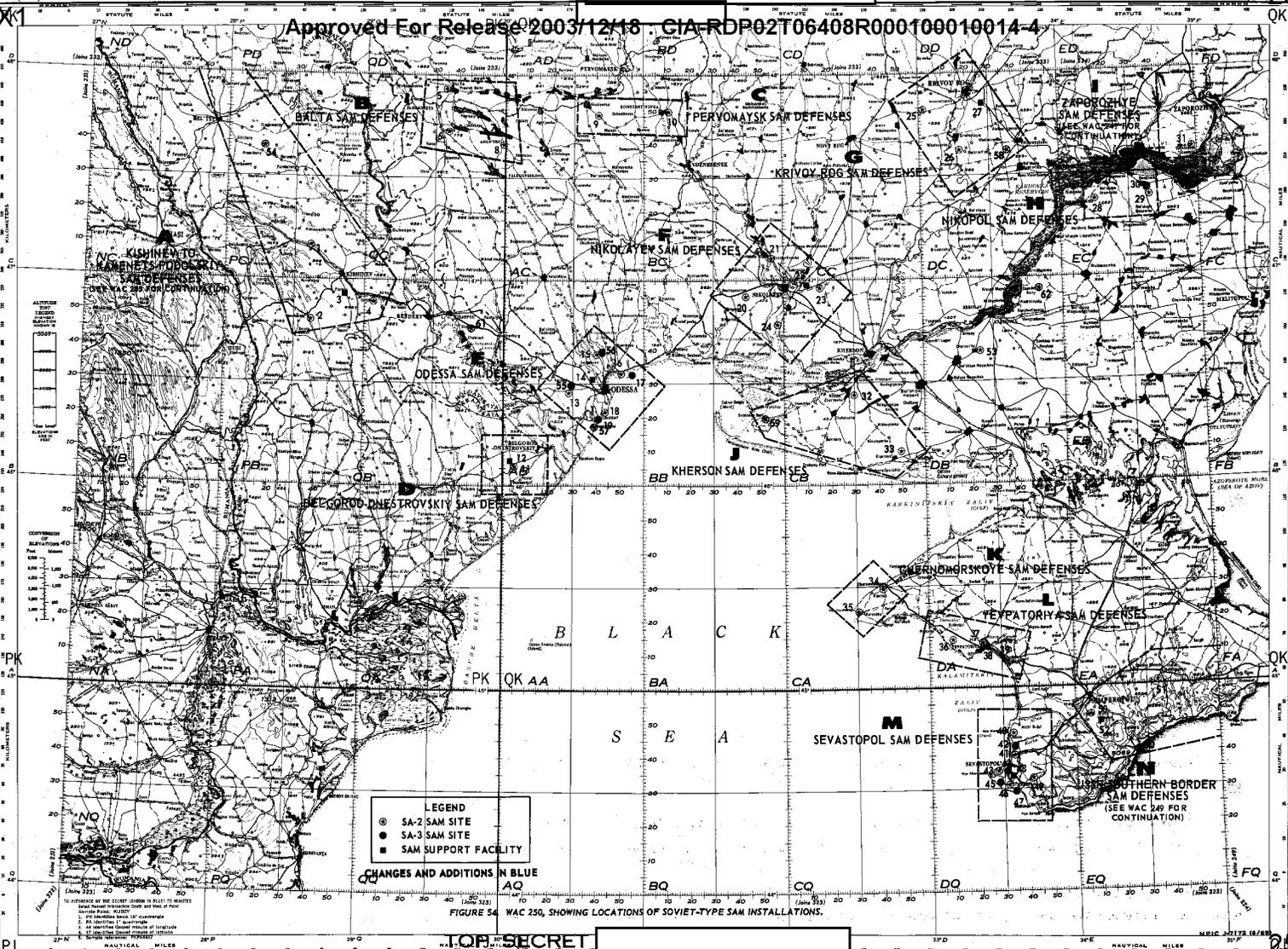
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Table 51. SAM Installations on WAC 250 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated ‡	Remarks
26	Krivoy Rog SAM Site B19-2, [redacted]	47-38-45N 33-17-50E	UR 0250-4	SA-2, link	[redacted]	[redacted]	[redacted]
27	Krivoy Rog SAM Support Facility, [redacted]	47-51-00N 33-28-30E	UR 0250-5	Type II (square)	[redacted]	[redacted]	[redacted]
28	Krivoy Rog SAM Site B16-2, [redacted]	47-37-10N 33-38-40E	UR 0250-5	SA-2, configuration undetermined	[redacted]	[redacted]	[redacted]
H Nikopol SAM Defenses (in defense of Nikopol: transportation and industrial center--pipe production and machine building)							
28	Nikopol SAM Site B22-2, [redacted]	47-23-15N 34-13-30E	UR 0250-5	SA-2, star	[redacted]	[redacted]	[redacted]
29	Nikopol SAM Site B14-2, [redacted]	47-24-15N 34-38-30E	UR 0250-5	SA-2, star	[redacted]	[redacted]	[redacted]
30	Nikopol SAM Support Facility, [redacted]	47-24-25N 34-38-10E	UR 0250-5	Type II (square)	[redacted]	[redacted]	[redacted]
J Zaporozhye SAM Defenses (in defense of Zaporozhye, a major industrial complex: an alumina plant, an aluminum plant, a large steel plant, and an aircraft engine plant)							
31	Zaporozhye SAM Site B21-2, [redacted]	47-36-20N 34-59-38E	UR 0250-5	SA-2, star	[redacted]	[redacted]	[redacted]
K Kherson SAM Defenses (in defense of Kherson, a large industrial complex: agricultural machinery production, POL refinery, shipyard)*							
32	Kherson SAM Site B21-2, [redacted]	46-27-15N 32-29-30E	UR 0250-9	SA-2, star	[redacted]	[redacted]	[redacted]
33	Kherson SAM Site C17-2, [redacted]	46-10-20N 32-50-20E	UR 0250-14	SA-2, star	[redacted]	[redacted]	[redacted]
34	Kherson SAM Site D24-2, [redacted]	46-20-10N 31-52-30E	UR 0250-14	SA-2, configuration undetermined	[redacted]	[redacted]	[redacted]
K Chernomorskoye SAM Defenses (in defense of Chernomorskoye and Krasnoselskoye cruise missile launch sites)*							
34	Chernomorskoye SAM Site A28-2, [redacted]	45-30-48N 32-40-50E	UR 0250-19	SA-2, star	[redacted]	[redacted]	[redacted]
35	Chernomorskoye SAM Site B24-2, [redacted]	45-23-15N 32-29-25E	UR 0250-19	SA-2, star	[redacted]	[redacted]	[redacted]
L Yevpatoriya SAM Defenses (in defense of Yevpatoriya: minor port complex, rail facilities, POL storage, and a space tracking facility)*							
36	Yevpatoriya SAM Site B30-2, [redacted]	45-15-40N 33-09-00E	UR 0250-19	SA-2, star	[redacted]	[redacted]	[redacted]
37	Yevpatoriya SAM Site A02-2, [redacted]	45-13-10N 33-29-30E	UR 0250-19	SA-2, probable star	[redacted]	[redacted]	[redacted]
38	Yevpatoriya SAM Support Facility, [redacted]	45-17-30N 33-28-00E	UR 0250-19	Type II (square)	[redacted]	[redacted]	[redacted]
39	Saki SAM Site A28-2, [redacted]	45-08-10N 33-31-40E	UR 0250-20	SA-2, star	[redacted]	[redacted]	[redacted]
M Sevastopol SAM Defenses (in defense of Sevastopol--major military and industrial center: Headquarters Black Sea Fleet, three naval bases, ship repair facilities, and torpedo boat pens; ammunition, mine, torpedo, and POL storage facilities; submarine base and cruise missile site at Balaklava, cruise missile site at Sevastopol, and jet fighter bases; chemical, machinery, armaments, and munitions production)*							
40	Sevastopol SAM Site B01-2, [redacted]	44-47-00N 33-32-45E	UR 0250-25	SA-2, star	[redacted]	[redacted]	[redacted]
41	Sevastopol SAM Site A01-2, [redacted]	44-41-55N 33-35-25E	UR 0250-25	SA-2, star	[redacted]	[redacted]	[redacted]
42	Sevastopol SAM Site A01-3, [redacted]	44-42-25N 33-28-10E	UR 0250-25	SA-2, configuration F	[redacted]	[redacted]	[redacted]
43	Sevastopol SAM Site A27-2, [redacted]	44-35-30N 33-25-45E	UR 0250-25	SA-2, star	[redacted]	[redacted]	[redacted]
44	Sevastopol SAM Site A27-3, [redacted]	44-35-15N 33-25-50E	UR 0250-25	SA-2, configuration F	[redacted]	[redacted]	[redacted]
45	Sevastopol SAM Site A23-3, [redacted]	44-32-30N 33-26-00E	UR 0250-25	SA-2, probable configuration F	[redacted]	[redacted]	[redacted]
46	Sevastopol SAM Site A19-2, [redacted]	44-31-25N 33-31-00E	UR 0250-25	SA-2, star	[redacted]	[redacted]	[redacted]
47	Sevastopol SAM Site A17-2, [redacted]	44-30-00N 33-34-10E	UR 0250-25	SA-2, configuration F	[redacted]	[redacted]	[redacted]
48	Sevastopol SAM Support Facility, [redacted]	44-34-15N 33-32-55E	UR 0250-25	Type I (rectangular)	[redacted]	[redacted]	[redacted]
49	Sevastopol SAM Site A11-2, [redacted]	44-34-15N 33-41-00E	UR 0250-25	SA-2, star	[redacted]	[redacted]	[redacted]
N USSR Southern Border SAM Defenses (in defense of the southern border of the USSR and specific targets, including Simferopol MRBM Complex; Simferopol area complex--2 jet fighter airfields, military camps, and a space tracking and communication facility; [redacted])							
50	Simferopol SAM Site A19-2, [redacted]	44-52-35N 34-05-25E	UR 0250-20	SA-2, star	[redacted]	[redacted]	[redacted]
51	Simferopol SAM Site C08-2, [redacted]	45-01-55N 34-34-00E	UR 0250-20	SA-2, star	[redacted]	[redacted]	[redacted]
52	Simferopol SAM Support Facility, [redacted]	44-50-00N 34-09-00E	UR 0250-20	Type II (square)	[redacted]	[redacted]	[redacted]
60	Simferopol SAM Site C14-2, [redacted]	44-41-30N 34-25-40E	UR 0250-25	SA-2, configuration irregular	[redacted]	[redacted]	[redacted]
O Defensive Role Undetermined							
53	Kherson SAM Site D09-2, [redacted]	46-39-00N 33-23-55E	UR 0250-9	SA-2, star	[redacted]	[redacted]	[redacted]
61	Tiraspol SAM Site A13-2, [redacted]	46-46-60N 29-45-05E	UR 0250-7	SA-2, configuration undetermined	[redacted]	[redacted]	[redacted]
62	Kakhovka SAM Site B06-2, [redacted]	46-37-40N 33-49-15E	UR 0250-10	SA-2, configuration undetermined	[redacted]	[redacted]	[redacted]

*Although these sites are grouped in defense of specific targets, they provide sufficient overlapping coverage to act as the southern border defense between Simferopol and the Rumanian border area. The obvious southern border defense begins with the Simferopol SAM sites and proceeds eastward.

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Table 52. SAM Installations on WAC 251

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks	
A Budapest (Hungary) SAM Defenses (in defense of Budapest--capital of Hungary, and Headquarters of Soviet Forces Hungary: numerous Hungarian and Soviet military installations, major river port and rail center, important industrial complex, including the largest shipyard in Hungary)								
1	Budapest SAM Site B05-2, [redacted]	47-39-58N 19-22-55E	HU 0251-1	SA-2, fan				
2	Budapest SAM Support Facility 1, [redacted]	47-32-13N 19-20-25E	HU 0251-1	Type I (rectangular)				
3	Budapest SAM Site B12-2, [redacted]	47-23-45N 19-25-53E	HU 0251-1	SA-2, fan				
4	Budapest SAM Site C16-2, [redacted]	47-04-32N 19-26-52E	HU 0251-6	SA-2, fan				
21	Budapest SAM Site C36-2, [redacted]	47-50-10N 19-03-10E	HU 0251-1	SA-2, fan				
22	Budapest SAM Site D18-2, [redacted]	46-54-19N 19-13-21E	HU 0251-6	SA-2, fan				
B Miskolc (Hungary) SAM Defenses (in defense of Miskolc: major Hungarian iron- and steel-producing area and heavy industrial complex with major transportation facilities)								
5	Miskolc SAM Site B23-2, [redacted]	47-55-30N 20-32-40E	HU 0251-1	SA-2, fan				
6	Miskolc SAM Site B15-2, [redacted]	47-56-20N 20-55-30E	HU 0251-2	SA-2, fan				
C Simeria (Romania) SAM Defenses (in defense of Simeria: large metallurgical combine, and large iron and machinery works)								
7	Simeria SAM Site B30-2, [redacted]	45-57-15N 22-43-58E	RU 0251-13	SA-2, configuration undetermined				
8	Simeria SAM Site A11-2, [redacted]	45-49-50N 23-11-00E	RU 0251-13	SA-2, fan				
9	Simeria SAM Site B20-2, [redacted]	45-32-40N 22-54-20E	RU 0251-13	SA-2, fan				
23	Simeria SAM Site C25-2, [redacted]	45-40-00N 22-31-00E	RU 0251-13	SA-2, configuration irregular				
24	Simeria Probable SAM Support Facility, [redacted]	45-43-57N 22-54-43E	RU 0251-13	Configuration irregular				
D Ploesti/Bucharest (Romania) SAM Defenses (in defense of Bucharest, capital of Romania, and Ploesti: Bucharest--aircraft and railroad equipment industries, military and commercial center; Ploesti--large industrial and petroleum refining center)								
10	Ploesti SAM Support Facility, [redacted]	45-03-45N 25-49-00E	RU 0251-20	Type I (rectangular)				
11	Ploesti SAM Site B27-2, [redacted]	44-56-15N 25-36-30E	RU 0251-20	SA-2 (see remarks)				
12	Bucharest SAM Site C31-2, [redacted]	44-39-00N 25-38-00E	RU 0251-25	SA-2, fan			The service roads at this site consist of a series of parallel roads, a configuration peculiar to Rumania.	
13	Bucharest SAM Site C27-2, [redacted]	44-23-10N 25-37-45E	RU 0251-25	SA-2, fan				
14	Bucharest SAM Site B23-2, [redacted]	44-11-50N 25-48-30E	RU 0251-25	SA-2, fan				
15	Bucharest SAM Site B19-2, [redacted]	44-07-30N 26-03-45E	RU 0251-25	SA-2, fan				
16	Bucharest SAM Site B15-2, [redacted]	44-11-50N 26-20-40E	RU 0251-25	SA-2 (see remarks)				
17	Bucharest SAM Site B11-2, [redacted]	44-21-12N 26-32-25E	RU 0251-25	SA-2 (see remarks)				
18	Bucharest SAM Site C07-2, [redacted]	44-36-10N 26-36-00E	RU 0251-25	SA-2 (see remarks)				
19	Ploesti SAM Site C10-2, [redacted]	44-55-50N 26-30-00E	RU 0251-20	SA-2, fan				
20	Bucharest SAM Support Facility, [redacted]	44-39-00N 26-13-45E	RU 0251-25	Type II (square)				
25	Ploesti Probable SAM Site B31-2, [redacted]	45-10-25N 25-44-15E	RU 0251-20	SA-2, configuration irregular				
26	Ploesti SAM Site B03-2, [redacted]	45-09-25N 26-10-45E	RU 0251-20	SA-2, configuration irregular				
E Belgrade (Yugoslavia) SAM Defenses (in defense of Belgrade, capital city of Yugoslavia; a major rail and water transportation center, an important industrial complex including large and small industries)								
27	Belgrade SAM Site B30-2, [redacted]	44-56-00N 20-15-00E	YU 0251-16	SA-2, star				
28	Belgrade SAM Site B24-2, [redacted]	44-40-15N 20-10-30E	YU 0251-21	SA-2, star				
29	Belgrade Possible SAM Support Facility, [redacted]	44-41-00N 20-24-00E	YU 0251-21	Type II (square)				
30	Belgrade SAM Site C13-2, [redacted]	44-38-40N 20-55-20E	YU 0251-22	SA-2, link				
F Brasov (Romania) SAM Defenses (in defense of Brasov; a major transportation and industrial center; and military barracks and storage areas)								
31	Brasov SAM Site B02-2, [redacted]	45-51-20N 25-40-00E	RU 0251-15	SA-2, fan				
32	Brasov SAM Site A25-2, [redacted]	45-35-40N 25-24-30E	RU 0251-20	SA-2, configuration irregular				
33	Brasov SAM Site B09-2, [redacted]	45-39-20N 25-56-50E	RU 0251-15	SA-2, fan				

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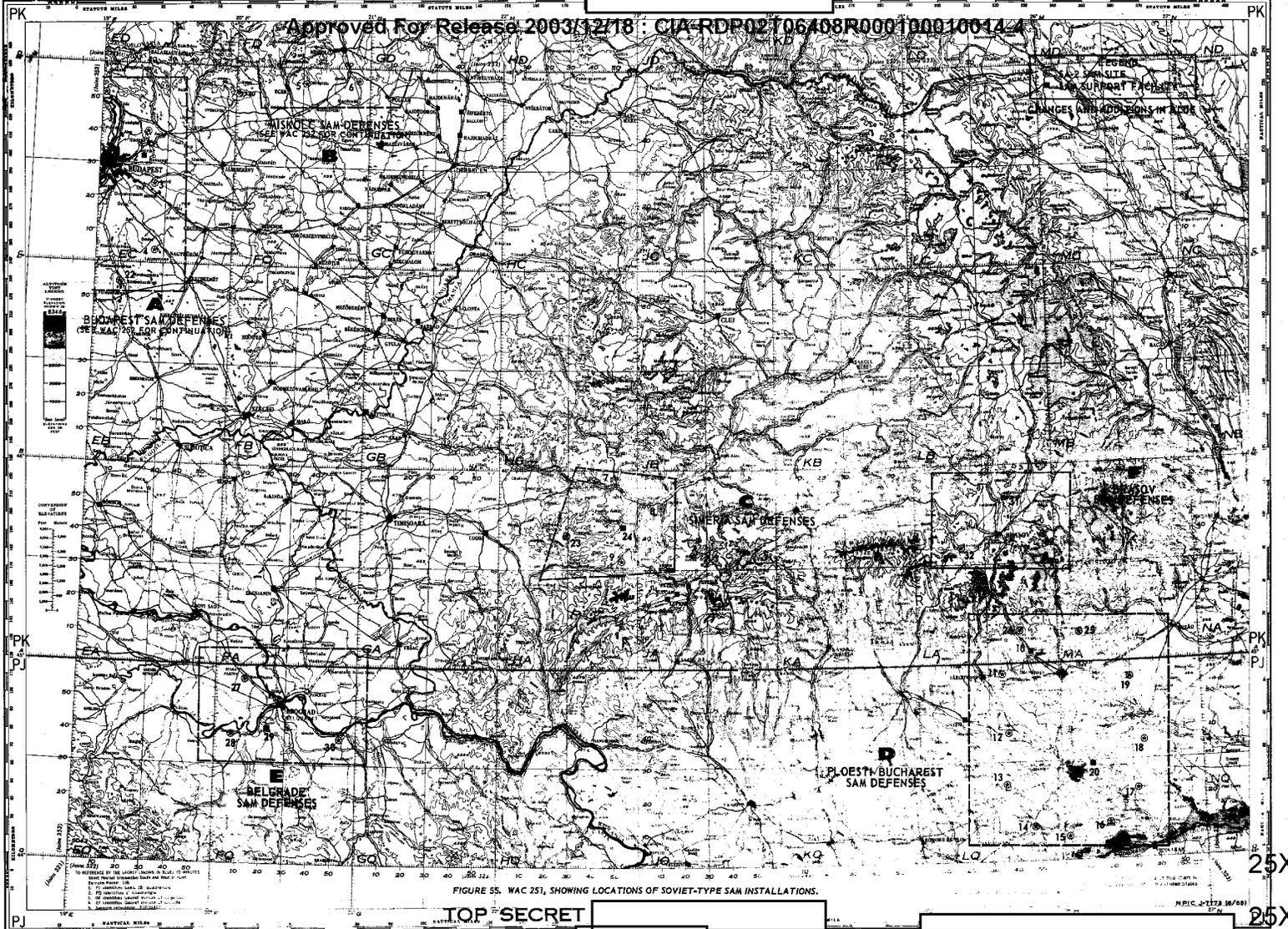


FIGURE 55. WAC 251, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 53. SAM Installations on WAC 858

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
Note - Installations whose defensive roles cannot be determined and which are not located within the limits of a SAM Defense area found under subheading C - "Defensive Role Undetermined."							
A Bratislava (Czechoslovakia) SAM Defenses (in defense of major military center with important industrial facilities, including POL, explosives, wire and cable, and electrical engineering products)							
1	Bratislava SAM Site B14-2, [redacted]	47-59-15N 17-26-00E	CZ 0252-5	SA-2, fan	[redacted]		
B Budapest (Hungary) SAM Defenses (in defense of Budapest--capital of Hungary, and Headquarters of Soviet Forces Hungary: numerous Hungarian and Soviet military installations, major river port and rail center, important industrial complex, including the largest shipyard in Hungary)							
2	Budapest SAM Site B31-2, [redacted]	47-39-56N 18-44-48E	HU 0252-5	SA-2, fan	[redacted]		
3	Budapest SAM Site C26-2, [redacted]	47-24-10N 18-33-40E	HU 0252-5	SA-2, fan			
4	Budapest SAM Site D24-2, [redacted]	47-08-47N 18-28-40E	HU 0252-5	SA-2, fan			
5	Dunafoldvar SAM Site B30-2, [redacted]	46-54-00N 18-35-03E	HU 0252-10	SA-2, fan			
6	Dunafoldvar SAM Site A19-2, [redacted]	46-44-00N 18-54-30E	HU 0252-10	SA-2, fan			
7	Budapest SAM Support Facility 2, [redacted]	47-08-15N 18-29-40E	HU 0252-10	Type I (rectangular)			
C Defensive Role Undetermined							
8	Veszprem SAM Site A01-2, [redacted]	47-04-45N 17-58-48E	HU 0252-10	SA-2, configuration undetermined			
9	Kaposzar SAM Site B08-2, [redacted]	46-33-45N 17-56-30E	HU 0252-10	SA-2, star			

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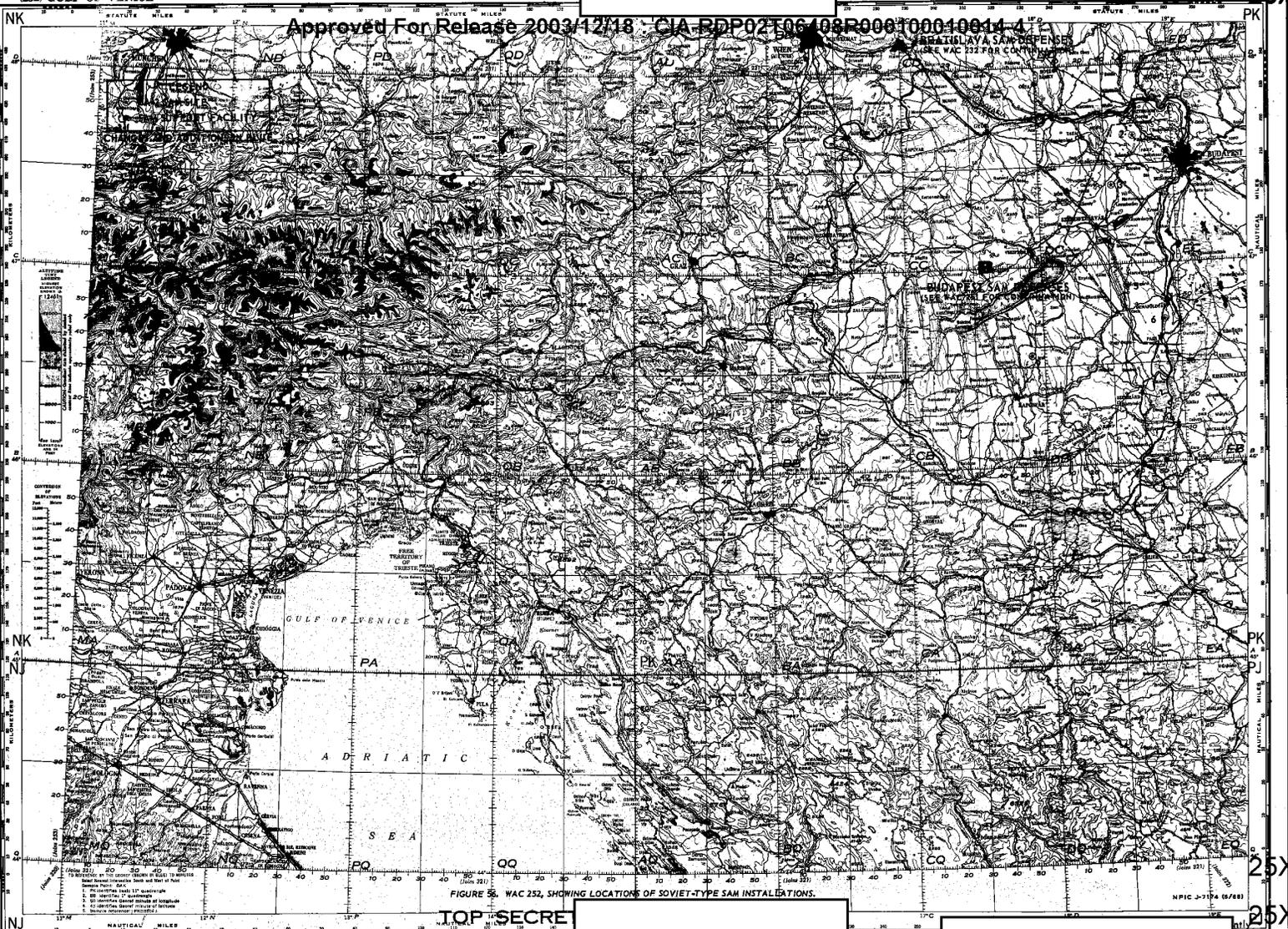
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Table 54. SAM Installations on WAC 280.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated†	Remarks
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Note - Installations whose defensive role cannot be determined and which are not located within the limits of a SAM defense area are found under subheading A - "Defensive Role Undetermined."

A Defensive Role Undetermined

1	Burevestnik SAM Site	45-08-00N 147-44-30E	UR 0280-16	SA-9, configuration undetermined	[Redacted]		
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Table 55. SAM Installations on WAC 281.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears +	Mission & Date Installation Negated+	Remarks
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Note - Installations whose defensive role cannot be determined and which are not located within the limits of a SAM defense area are found under subheading B - "Defensive Role Undetermined."

A Yuzhno-Sakhalinsk SAM Defenses (in defense of Yuzhno-Sakhalinsk: military center--headquarters of Far East Military District, military installations, and four military airfields; small industrial center--facilities for production of explosives, alcohol, and oxygen; and Korsakov--major port of Sakhalin Island, naval base, and military airfield)

1	Yuzhno-Sakhalinsk SAM Support Facility,	46-52-30N 142-46-30E	UR 0281-8A	Type II (square)			
2	Yuzhno-Sakhalinsk SAM Site A10-2,	46-57-00N 142-54-59E	UR 0281-8	SA-2, configuration undetermined			
3	Yuzhno-Sakhalinsk SAM Site B12-2,	46-50-45N 143-10-05E	UR 0281-8	SA-2, link			
4	Korsakov SAM Site B10-2,	46-36-50N 143-06-50E	UR 0281-8A	SA-2, link			
5	Korsakov SAM Site A11-2,	46-37-20N 142-45-50E	UR 0281-8A	SA-2, link			

B Defensive Role Undetermined

6	Dalnaya SAM Site A36-2,	48-55-15N 142-04-30E	UR 0231-12A	SA-2, link			
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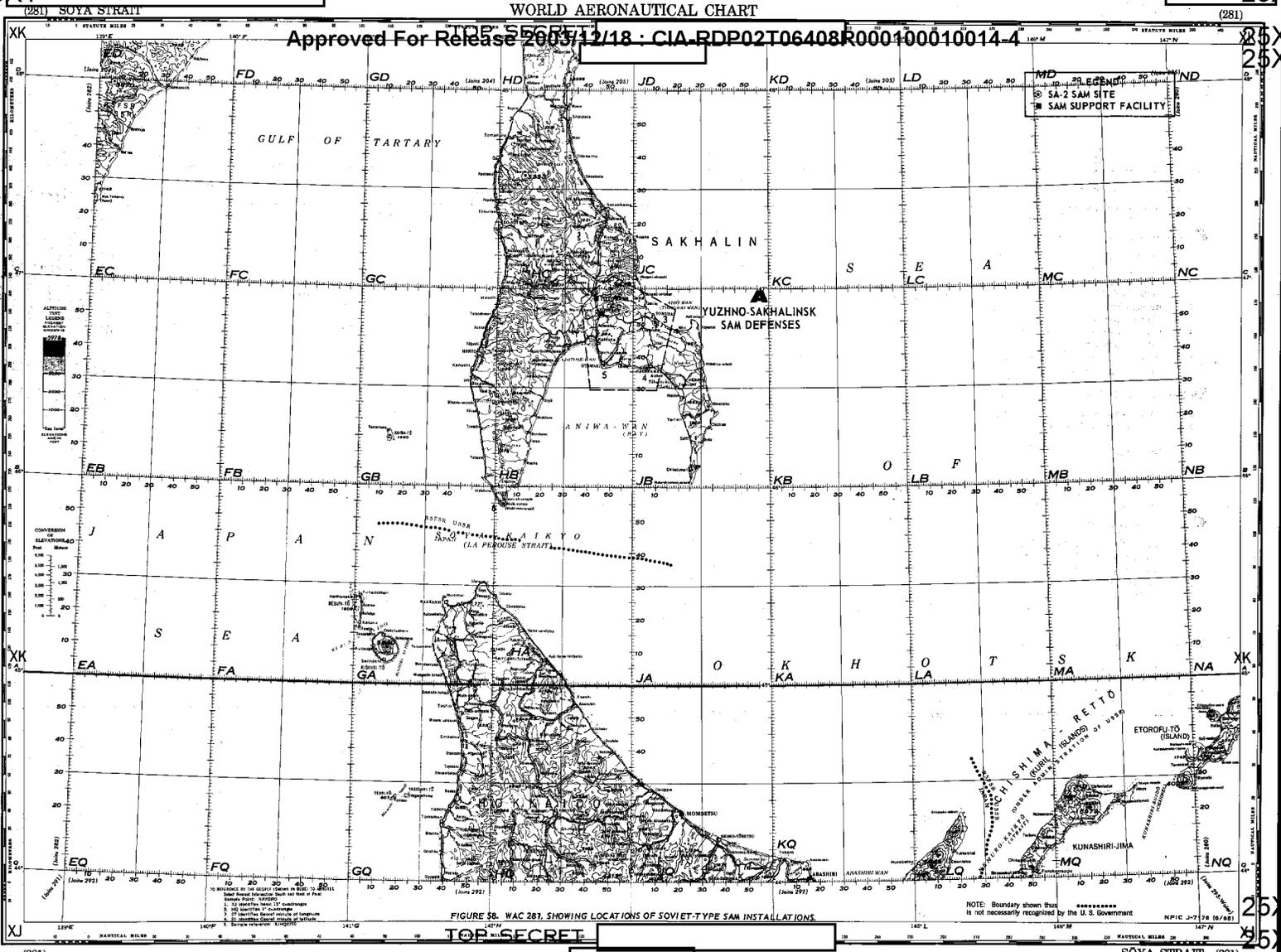
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Table 56. SAM Installations on WAC 282.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks	
Note - Installations whose defensive role cannot be determined and which are not located within the limits of a SAM defense area are found under subheading D - "Defensive Role Undetermined."								
A Barano-Orenburgskoye SAM Defenses (in defense of Barano-Orenburgskoye MRBM Complex, and Golenki Airfield)								
1	Barano-Orenburgskoye MRBM Complex SAM Site A34-2, [redacted]	44-26-15N 131-22-40E	UR 0282-21	SA-2, star			[redacted]	
2	Barano-Orenburgskoye SAM Support Facility, [redacted]	44-27-00N 131-22-35E	UR 0282-21	Type II (square)				
3	Barano-Orenburgskoye MRBM Complex SAM Site B08-2, [redacted]	44-27-40N 131-35-30E	UR 0282-21	SA-2, skull				
4	Barano-Orenburgskoye MRBM Complex SAM Site B19-2, [redacted]	44-02-40N 131-24-15E	UR 0282-21	SA-2, star				
5	Barano-Orenburgskoye MRBM Complex SAM Site B13-2, [redacted]	44-10-05N 131-45-00E	UR 0282-21	SA-2, skull				
B Kremovo SAM Defenses (in defense of Kremovo MRBM Complex and Golenki Airfield)								
6	Chernigovka SAM Site B25-2, [redacted]	44-12-30N 132-11-00E	UR 0282-21	SA-2, skull			[redacted]	
7	Ussuriysk SAM Site B04-3, [redacted]	44-00-55N 132-11-50E	UR 0282-21	SA-3, configuration F				
8	Ussuriysk SAM Site C07-3, [redacted]	44-02-10N 132-30-00E	UR 0282-21	SA-3, configuration A				
9	Chernigovka SAM Site A20-2, [redacted]	44-10-50N 132-30-00E	UR 0282-21	SA-2, star				
14	Chernigovka SAM Site B25-3, [redacted]	44-11-10N 132-09-20E	UR 0282-21	SA-3, configuration F				
15	Chernigovka SAM Site B20-3, [redacted]	44-09-30N 132-29-55E	UR 0282-21	SA-3, configuration F				
C Novosyoyevka SAM Defenses (in defense of Novosyoyevka IRBM Complex)								
10	Chernyshevka SAM Site A26-2, [redacted]	44-10-50N 133-05-10E	UR 0282-22	SA-2, skull				
11	Chernyshevka SAM Support Facility, [redacted]	44-12-00N 133-10-10E	UR 0282-21	Type II (square)				
12	Dostoyevka SAM Site A03-2, [redacted]	44-21-30N 133-30-40E	UR 0282-22	SA-2, skull				
13	Novosyoyevka IRBM Complex SAM Site C09-2, [redacted]	44-10-50N 133-57-00E	UR 0282-22	SA-2, skull				
16	Chernyshevka SAM Site A14-2, [redacted]	44-11-40N 133-09-55E	UR 0282-22	SA-2, probable chevron				
D Defensive Role Undetermined								
17	Velikaya Kema SAM Site A28-2, [redacted]	45-21-30N 137-04-20E	UR 0282-19	SA-2, configuration undetermined				
18	Velikaya Kema SAM Site A 06-2, [redacted]	45-29-30N 137-14-40E	UR 0282-19	SA-2, configuration undetermined				

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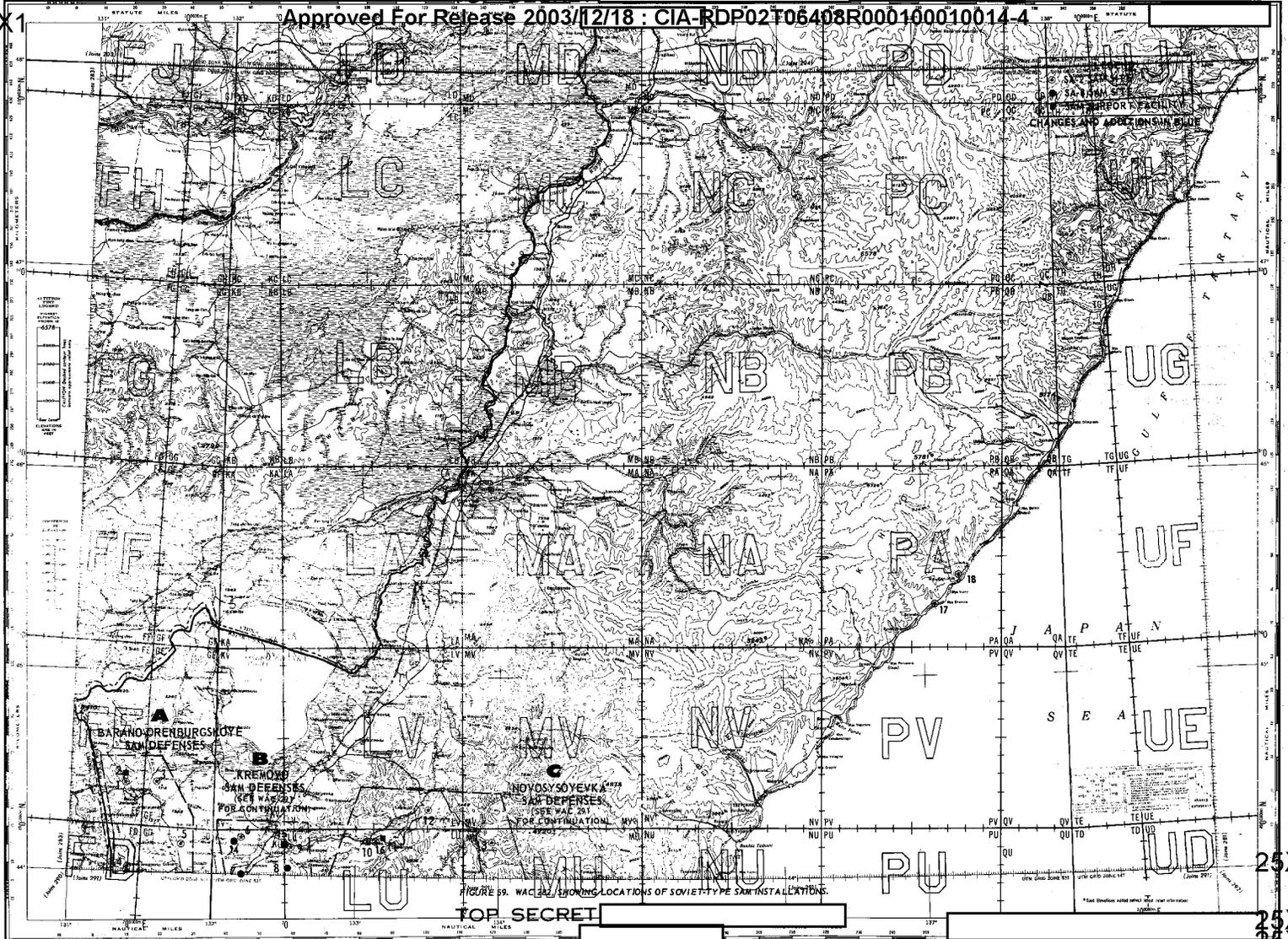


FIGURE 59. WAC 051 SHOWS LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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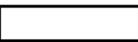
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Table 57. SAM Installations on WAC 284.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated‡	Remarks
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Note - Installations whose defensive role cannot be determined and which are not located within the limits of a SAM defense area are found under subheading A - "Defensive Role Undetermined."

A Defensive Role Undetermined

1	Barinocusumu Possible SAM Site	44-50-00N 117-14-15E	CHAMS Series L500, Sheet NL 50-11 (U)	Possible SA-2, configuration undetermined			
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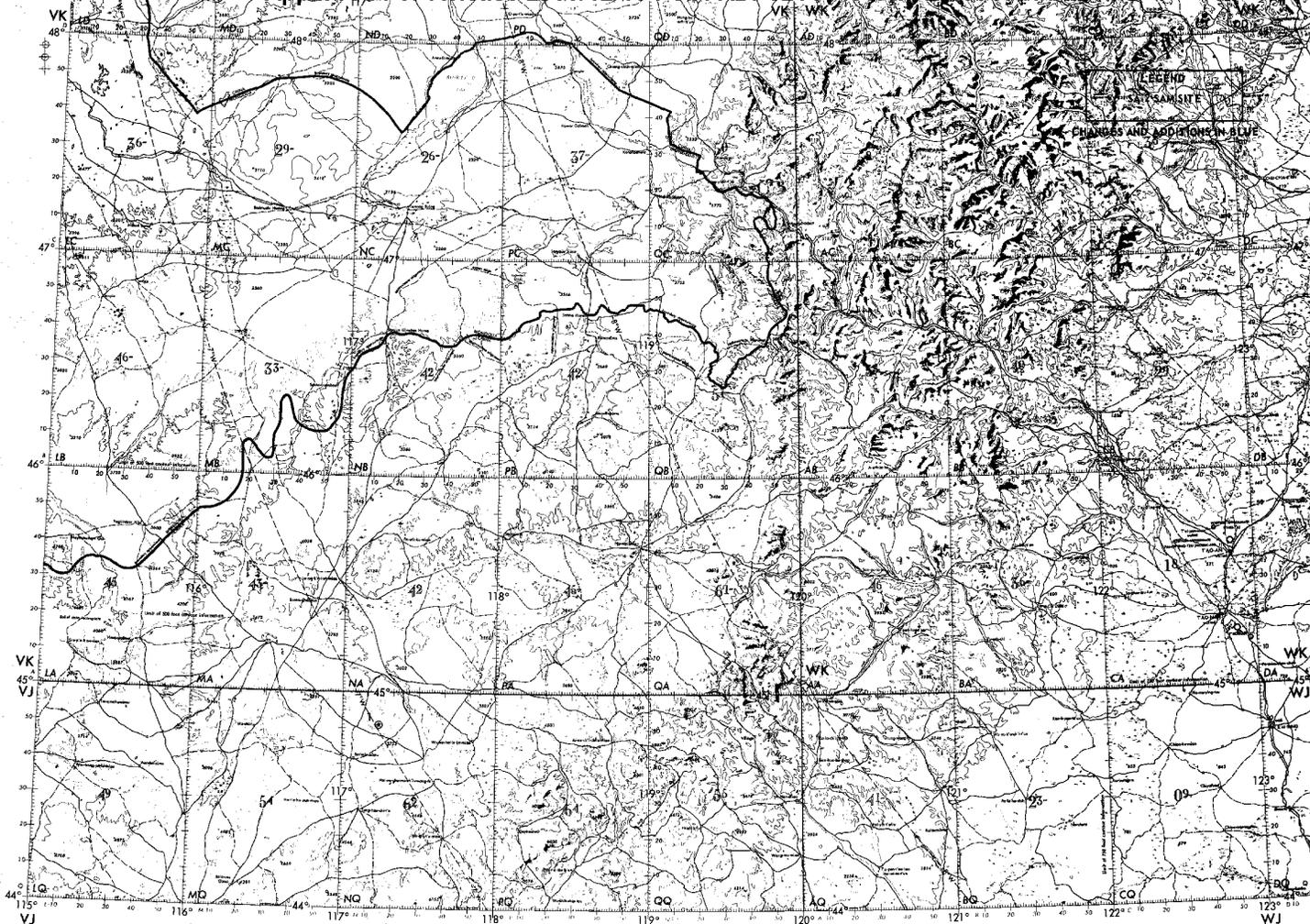


FIGURE 60. WAC 284, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

NPIC J-7178 (8/88)

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USAF OPERATIONAL NAVIGATION CHART

SUTK LAKE
CHINA, HONKONG
ONC 284

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Table 58. SAM Installations on WAC 287.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
A Shuang-cheng-tzu (China) SAM Defenses (in defense of Shuang-cheng-tzu Missile Test Center, R & D facility for SSMs, SAMs, AAMs, and ASMs)							
1	Shuang-cheng-tzu Missile Test Center SAM Site CO2-3, [redacted]	41-06-30N 100-20-02E	CHAMS ESPA NK 47A	SA-2, star	[redacted]		
2	Shuang-cheng-tzu Missile Test Center SAM Launch Complex	41-04-08N 100-30-00E	CHAMS ESPA NK 47A	See remarks	[redacted]		SAM Launch Complex consists of two fan-type SAM sites.

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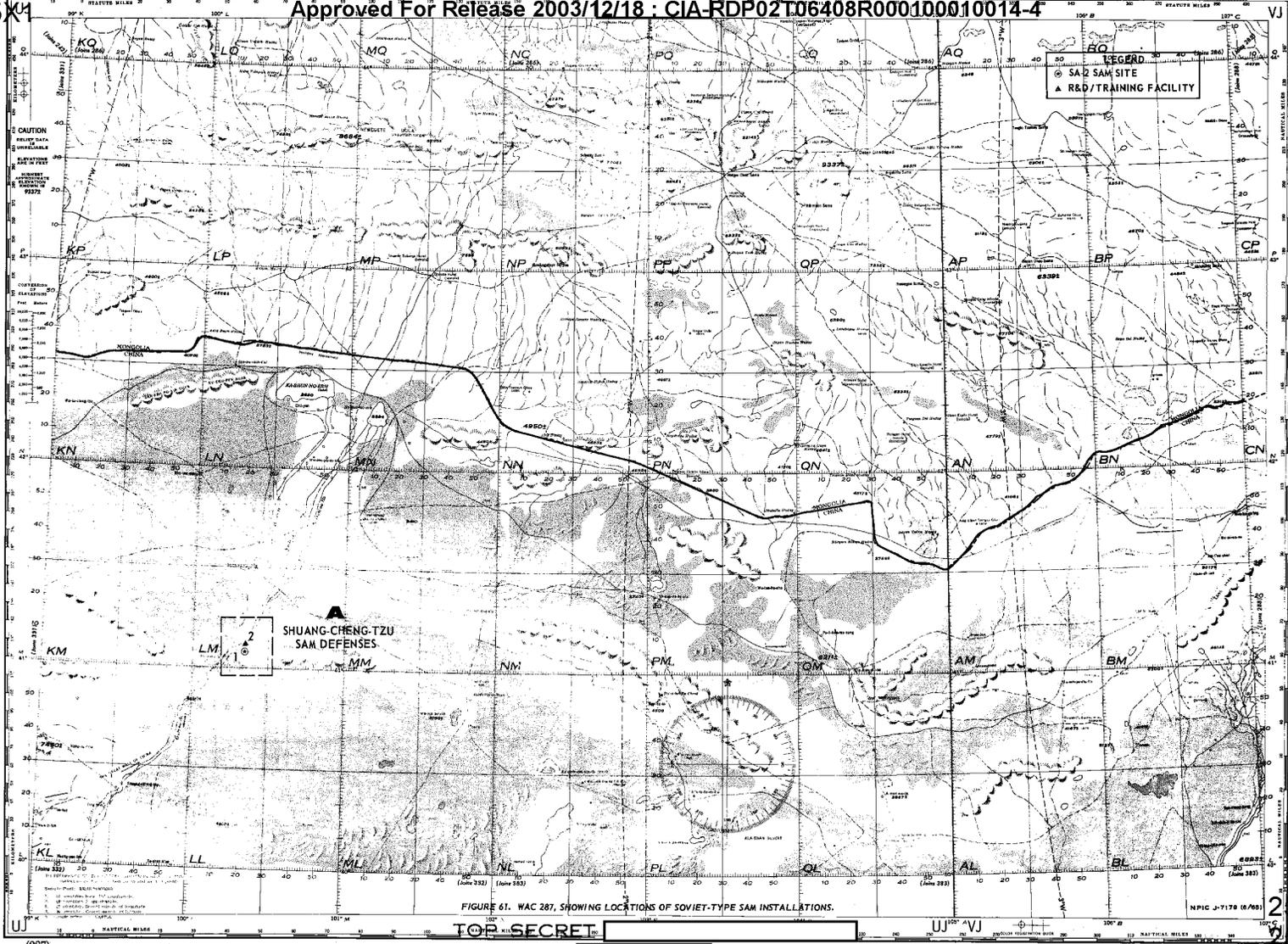


FIGURE 61. WAC 287, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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KA-SHUN LAKE (287)

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Table 69. SAM Installations on WAC 289.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated†	Remarks
1	Peiping SAM Site B35-2, [redacted]	40-09-20N 116-16-25E	CH 0289-21	SA-2, link	[redacted]		
2	Peiping SAM Site B06-2, [redacted]	40-05-20N 116-42-30E	CH 0289-22	SA-2, star			

▲ Peiping (China) SAM Defenses (in defense of Peiping, capital of Communist China: military center--military airfields, atomic research institute, missile research and development center, numerous military installations--and industrial center--steel plants, chemical works, ordnance plants, and foundries)

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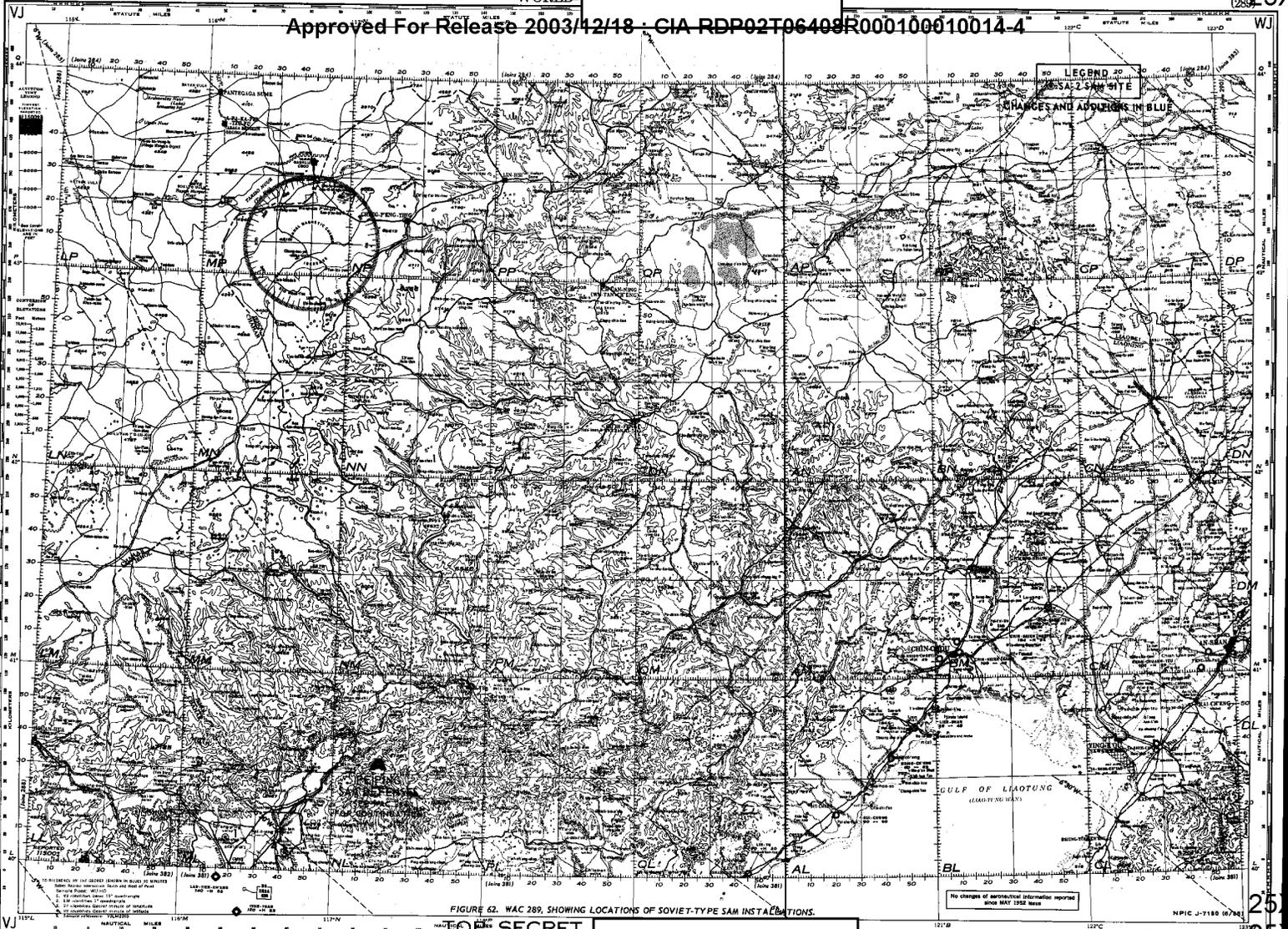
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Table 60. SAM Installations on WAC 291.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A Ussuriysk SAM Defenses (in defense of Ussuriysk: industrial--locomotive and car repair shops; and military center--ammo storage, POL storage, and 11 military airfields within 20-nautical-mile radius of Ussuriysk)							
1	Ussuriysk SAM Site B16-2, [redacted]	43-35-05N 131-58-52E	UR 0291-1	SA-2, probable link			[redacted]
2	Ussuriysk SAM Support Facility, [redacted]	43-51-46N 132-02-10E	UR 0291-1	Type II (square)			
3	Ussuriysk SAM Site A04-2, [redacted]	43-53-28N 132-03-00E	UR 0291-1	SA-2, star			
33	Ussuriysk SAM Site A04-2, [redacted]	43-52-15N 132-02-15E	UR 0291-1	SA-2, configuration undetermined			
B Kremovo SAM Defenses (in defense of Kremovo MRBM Complex and Golenki Airfield)							
4	Ussuriysk SAM Site B08-2, [redacted]	43-50-10N 132-16-50E	UR 0291-1	SA-3, configuration B			[redacted]
5	Ussuriysk SAM Site C08-2, [redacted]	43-54-30N 132-26-20E	UR 0291-1	SA-2, chevron			
C Vladivostok/Nakhodka SAM Defenses (in defense of Vladivostok, largest and most important military center and naval base in the Soviet Far East, and Nakhodka--major naval base)							
6	Vladivostok SAM Site D28-2, [redacted]	43-49-45N 131-17-00E	UR 0291-6	SA-2, link			[redacted]
7	Vladivostok SAM Site B28-2, [redacted]	43-02-25N 131-33-00E	UR 0291-6	SA-2, configuration F			
8	Vladivostok SAM Site B27-2, [redacted]	43-03-55N 131-35-40E	UR 0291-6	SA-2, link			
9	Vladivostok SAM Site A24-2, [redacted]	43-02-45N 131-49-40E	UR 0291-6	SA-2, probable link			
10	Vladivostok SAM Support Facility 1, [redacted]	43-01-10N 131-47-20E	UR 0291-6	Type I (rectangular)			
11	Vladivostok SAM Site A23-2, [redacted]	43-00-15N 131-47-40E	UR 0291-6	SA-2, fan			
12	Vladivostok SAM Site A23-2, [redacted]	42-58-55N 131-48-10E	UR 0291-6	SA-2, configuration F			
13	Vladivostok SAM Site A19-2, [redacted]	42-58-30N 131-54-50E	UR 0291-6	SA-2, configuration F			
14	Vladivostok SAM Site A19-2, [redacted]	42-58-50N 131-55-15E	UR 0291-6	SA-2, fan			
15	Vladivostok SAM Site A07-2, [redacted]	43-07-40N 132-02-20E	UR 0291-6	SA-2, configuration F			
16	Vladivostok SAM Site B08-2, [redacted]	43-10-10N 132-20-20E	UR 0291-6	SA-2, fan			
17	Vladivostok SAM Site C11-2, [redacted]	43-00-50N 132-25-40E	UR 0291-6	SA-2, chevron			
18	Vladivostok SAM Support Facility 2, [redacted]	43-00-55N 132-26-20E	UR 0291-6	Type I (rectangular)			
19	Nakhodka SAM Site B29-2, [redacted]	42-54-40N 132-30-45E	UR 0291-6	SA-2, link			
20	Vladivostok SAM Site C13-2, [redacted]	42-52-00N 132-20-00E	UR 0291-6	SA-2, fan			
21	Vladivostok SAM Site C14-2, [redacted]	42-45-25N 132-21-05E	UR 0291-6	SA-2, link			
22	Nakhodka SAM Site A28-2, [redacted]	42-50-30N 132-46-20E	UR 0291-7	SA-2, link			
23	Nakhodka SAM Site B15-2, [redacted]	42-42-15N 133-02-45E	UR 0291-7	SA-2, fan			
24	Nakhodka SAM Site B15A-2, [redacted]	42-42-20N 133-01-45E	UR 0291-7	SA-2, fan			
34	Vladivostok SAM Site B30-2, [redacted]	43-12-40N 131-32-10E	UR 0291-1	SA-2, configuration undetermined			
35	Artem Possible SAM Support Facility, [redacted]	43-23-10N 132-05-10E	UR 0291-1	Configuration irregular			
D Suchan SAM Defenses (in defense of Suchan MRBM Complex)							
25	Kiyevka SAM Site A22-2, [redacted]	42-52-50N 133-40-00E	UR 0291-7	SA-2, star			[redacted]
26	Nakhodka SAM Support Facility, [redacted]	42-54-30N 133-05-50E	UR 0291-7	Type II (square)			
27	Nakhodka SAM Site B07-2, [redacted]	42-55-30N 133-06-30E	UR 0291-7	SA-2, link			
28	Suchan MRBM Complex SAM Site B01-2, [redacted]	43-17-25N 133-20-00E	UR 0291-2	SA-2, skull			
E Novosyoyevka SAM Defenses (in defense of Novosyoyevka IRBM Complex)							
29	Novosyoyevka IRBM Complex SAM Site C21-2, [redacted]	43-50-30N 133-18-00E	UR 0291-2	SA-2, fan			[redacted]
F Olga SAM Defenses (in defense of Olga Bay Submarine Base, Olga Air Defense Sector Headquarters, and Vladimira submarine base and naval facility)							
30	Olga SAM Support Facility 1, [redacted]	43-46-50N 135-19-50E	UR 0291-3	Type II (square)			[redacted]
31	Olga SAM Site A05-2, [redacted]	43-47-35N 135-21-00E	UR 0291-3	SA-2, fan			
32	Olga SAM Site B04-2, [redacted]	43-58-50N 135-31-00E	UR 0291-3	SA-2, configuration irregular			
36	Olga SAM Site B06-2, [redacted]	43-51-00N 135-29-50E	UR 0291-3	SA-2, configuration undetermined			

Proximity to buildings and Petrovka SAM Support Facility suggests a training role for this site.

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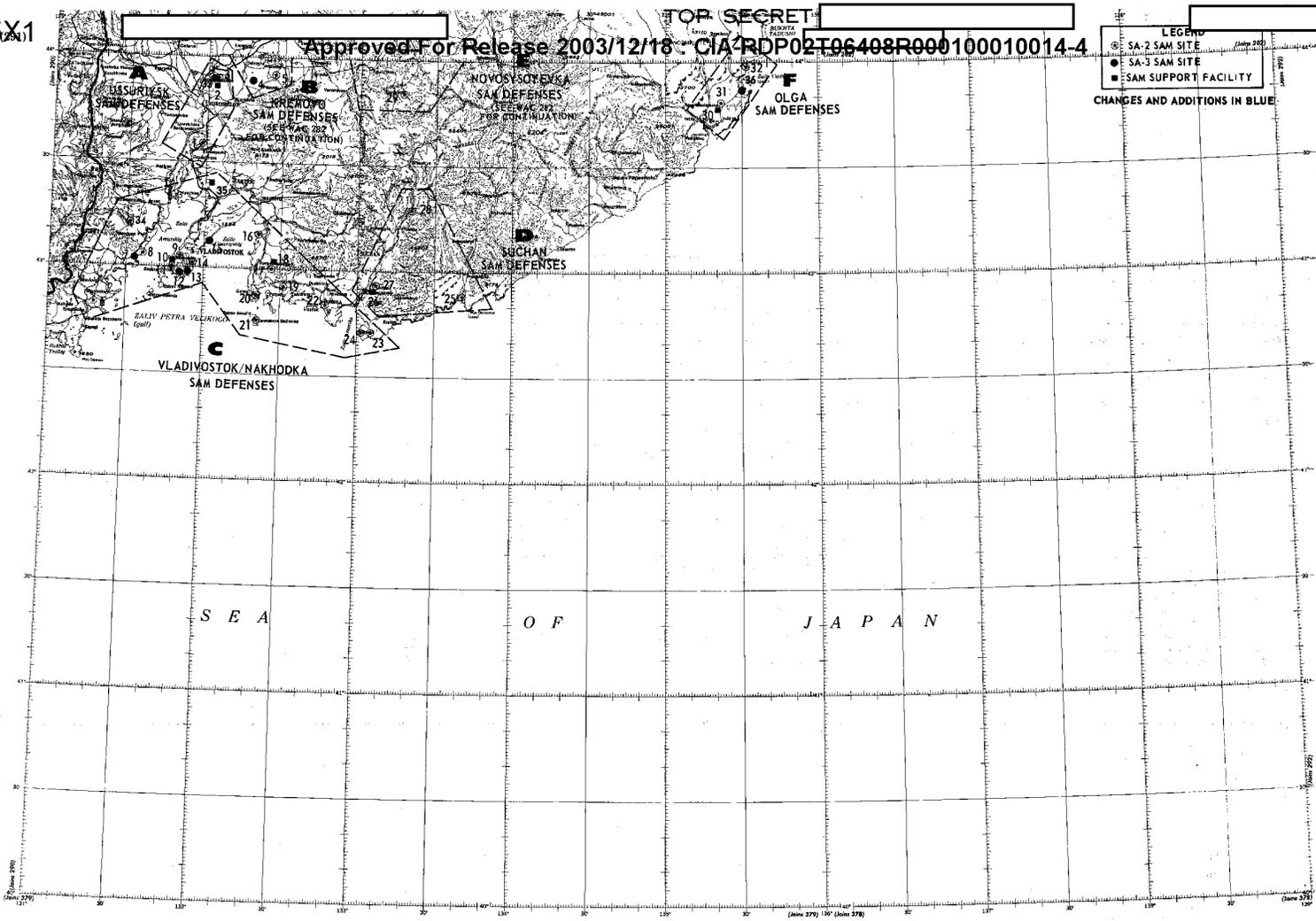
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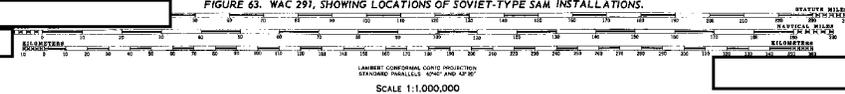


LEGEND

- SA-2 SAM SITE (Date 282)
- SA-3 SAM SITE
- SAM SUPPORT FACILITY

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FIGURE 63. WAC 291, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.



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Table 61. SAM Installations on WAC 322.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
A Tirane (Albania) SAM Defenses (in defense of Tirane, capital of Albania, and an important military center)							
1	Tirane SAM Site B29-2	41-22-08N 19-31-42E	AL 0322-16	SA-2, link			
2	Tirane SAM Support Facility,	41-16-10N 19-42-55E	AL 0322-16	Type I (rectangular)			
B Sofia to Burgas (Bulgaria) SAM Defenses (in defense of the southern border of Bulgaria: Sofia, capital of Bulgaria, major transportation and industrial production center—machinery, carbide, chemical, and electrical equipment; iron and steel plant at Dimitrovo; Plovdiv, important transportation and military center, including two military airfields; Burgas, Black Sea port and naval base)							
3	Sofia SAM Site B33-2,	42-56-30N 23-06-00E	BU 0322-8	SA-2, fan			
4	Sofia SAM Site C24-2,	42-25-05N 22-47-30E	BU 0322-8	SA-2, fan			
5	Stanke Dimitrov SAM Site A25-2,	42-13-15N 23-58-50E	BU 0322-13	SA-2, fan			
6	Sofia SAM Site C21-2,	42-21-00N 23-07-00E	BU 0322-13	SA-2, fan			
7	Sofia SAM Site B17-2,	42-24-00N 23-26-00E	BU 0322-8	SA-2, fan			
8	Sofia SAM Site B12-2,	42-35-00N 23-43-00E	BU 0322-8	SA-2, fan			
9	Sofia SAM Site D13-2,	42-23-10N 23-59-00E	BU 0322-14	SA-2, fan			
10	Plovdiv SAM Site B30-2,	42-14-10N 24-26-50E	BU 0322-14	SA-2, fan			
11	Plovdiv SAM Site B22-2,	41-55-60N 24-37-40E	BU 0322-14	SA-2, fan			
12	Plovdiv SAM Support Facility,	42-04-20N 24-51-80E	BU 0322-14	Type II (square)			
13	Plovdiv SAM Site B12-2,	42-02-10N 23-06-35E	BU 0322-14	SA-2, fan			
14	Khaskovo SAM Site A23-2,	41-53-05N 23-30-10E	BU 0322-15	SA-2, fan			
15	Kharmali SAM Site A28-2,	41-36-50N 23-50-30E	BU 0322-15	SA-2, fan			
16	Elkhovo SAM Site A27-2,	42-10-40N 26-26-40E	BU 0322-15	SA-2, link			
17	Elkhovo SAM Site B08-2,	42-30-00N 26-47-20E	BU 0322-15	SA-2, fan			
18	Sofia SAM Site C 26-2,	42-42-10N 22-46-16E	BU 0322-8	SA-2, probable fan			
19	Sofia SAM Support Facility	42-33-30N 22-57-30E	BU 0322-8	Configuration irregular			

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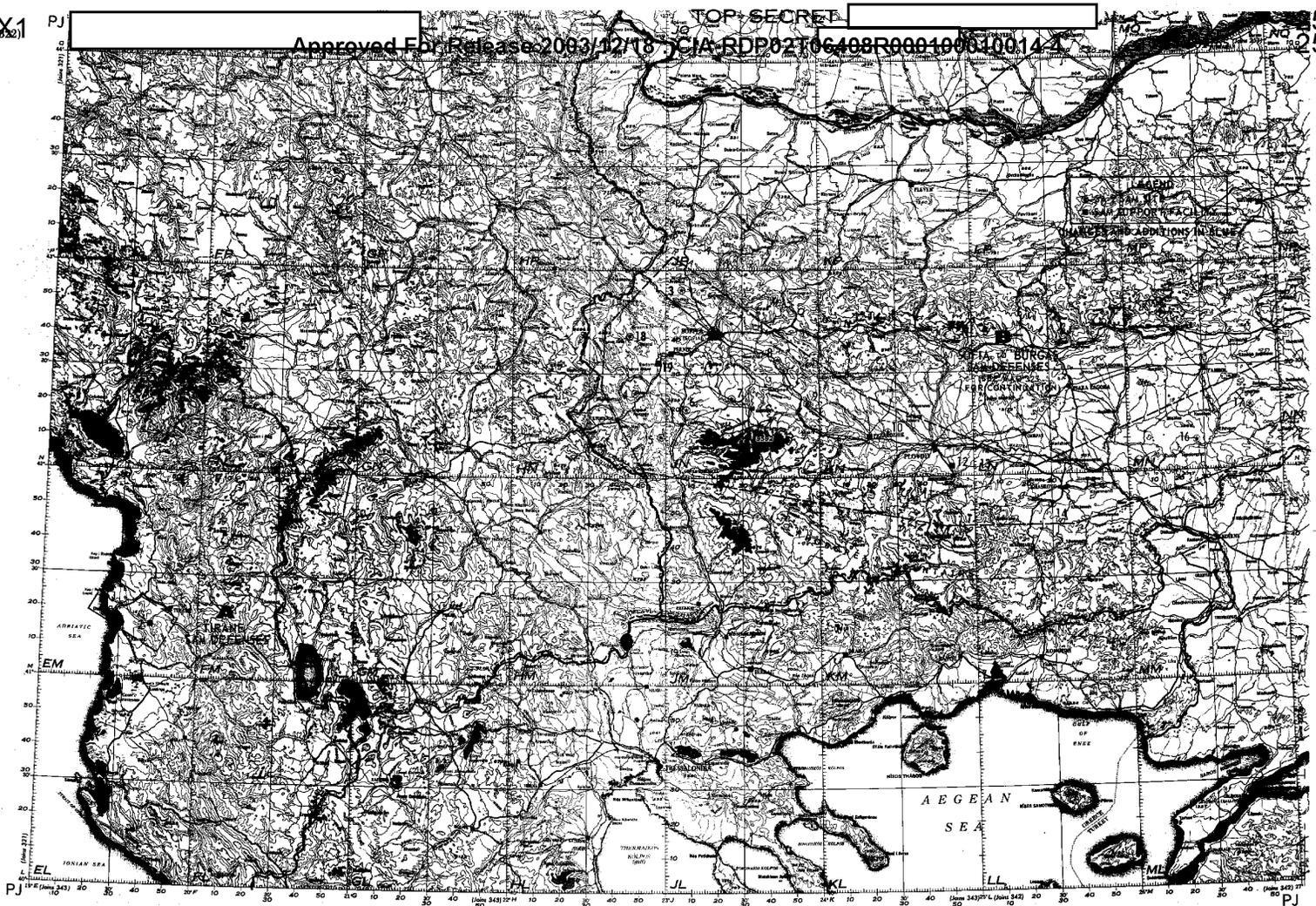
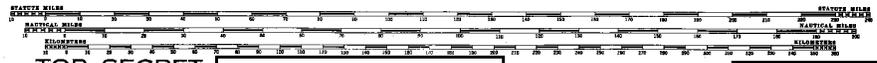


FIGURE 64. WAC 322, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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BALKAN MOUNTAINS (322)
ALBANIA-BULGARIA-GREECE-ROMANIA-TURKEY-YUGOSLAVIA

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Table 62. SAM Installations on WAC 323.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated ‡	Remarks
A Sofia to Burgas (Bulgaria) SAM Defenses (in defense of the southern border of Bulgaria: Sofia, capital of Bulgaria, major transportation and industrial production center—machinery, carbide, chemical, and electrical equipment; iron and steel plant at Dimitrovo; Plovdiv, important transportation and military center, including two military airfields; Burgas, Black Sea port and naval base)							
1	Burgas SAM Site B22-2, [redacted]	42-20-40N 27-18-10E	BU 0823-11	SA-2, link	[redacted]		
2	Burgas SAM Site B18-2, [redacted]	42-22-40N 27-41-50E	BU 0823-11	SA-2, link	[redacted]		
6	Burgas SAM Support Facility, [redacted]	42-26-55N 27-09-00E	BU 0823-8	Configuration irregular	[redacted]		
B Varna (Bulgaria) SAM Defenses (in defense of Varna, major Bulgarian port on the Black Sea: Varna Naval Base and shipyards, Headquarters Bulgarian Black Sea fleet)							
3	Varna SAM Sites B19-2, [redacted]	43-01-45N 27-52-30E	BU 0323-6	SA-2, fan	[redacted]		
4	Varna SAM Support Facility, [redacted]	43-19-30N 27-46-20E	BU 0323-1	Type II (square)	[redacted]		
5	Varna SAM Site A05-2, [redacted]	43-19-50N 28-03-15E	BU 0323-1	SA-2, fan	[redacted]		

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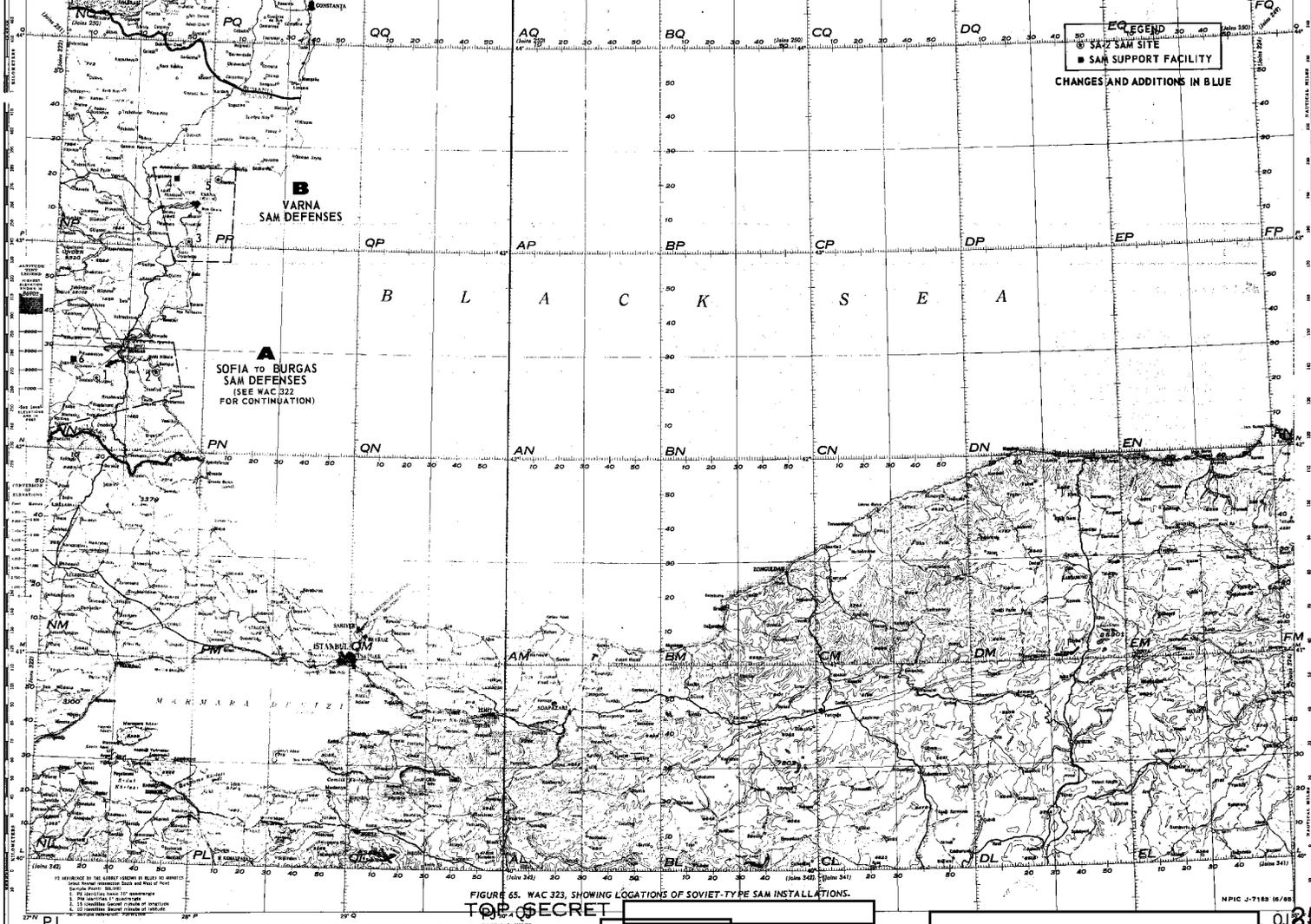


FIGURE 65. WAC 323, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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NPIC J-7185 (6/88)

MARMARA SEA (323)
BULGARIA-BOSNIA-TURKEY

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Table 63. SAM Installations on WAC 324.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated ‡	Remarks
A USSR Southern Border SAM Defenses (in defense of the southern border of the USSR, and Sukhumi, a port on the Black Sea with port facilities, seaplane base, and government control center; Gudauta Airfield; Ochamchire Naval Base; Poti, a major port on the Black Sea; Poti Naval Base, and seaplane base; and Kutaisi, a military and light industrial complex containing a motor vehicle plant and military airfield)							
1	Sochi SAM Site A38-2, [redacted]	43-39-50N 39-38-45E	UR 0324-3	SA-2, link	[redacted]	[redacted]	[redacted]
2	Adler SAM Site A11-2, [redacted]	43-23-40N 40-02-00E	UR 0324-4	SA-2, link	[redacted]	[redacted]	[redacted]
3	Gudauta SAM Site B29-2, [redacted]	43-10-00N 40-19-30E	UR 0324-9	SA-2, fan	[redacted]	[redacted]	[redacted]
4	Gudauta SAM Support Facility, [redacted]	43-06-20N 40-36-30E	UR 0324-9	Type II (square)	[redacted]	[redacted]	[redacted]
5	Gudauta SAM Site A11-2, [redacted]	43-05-30N 40-42-30E	UR 0324-9	SA-2, fan	[redacted]	[redacted]	[redacted]
6	Sukhumi SAM Site A15-2, [redacted]	42-56-15N 41-05-00E	UR 0324-9	SA-2, fan	[redacted]	[redacted]	[redacted]
7	Ochamchire SAM Site A08-2, [redacted]	42-42-40N 41-21-20E	UR 0324-10	SA-2, fan	[redacted]	[redacted]	[redacted]
8	Poti SAM Site B35-2, [redacted]	42-22-50N 41-35-20E	UR 0324-15	SA-2, fan	[redacted]	[redacted]	[redacted]
9	Poti SAM Site A35-2, [redacted]	42-12-00N 41-39-30E	UR 0324-15	SA-2, link	[redacted]	[redacted]	[redacted]
10	Poti SAM Support Facility, [redacted]	42-14-00N 41-46-30E	UR 0324-15	Type I (rectangular)	[redacted]	[redacted]	[redacted]
11	Poti SAM Site B07-2, [redacted]	42-13-30N 41-53-40E	UR 0324-15	SA-2, link	[redacted]	[redacted]	[redacted]
12	Poti SAM Site A15-2, [redacted]	42-01-50N 41-45-40E	UR 0324-15	SA-2, link	[redacted]	[redacted]	[redacted]
13	Kutaisi SAM Site A26-2, [redacted]	42-12-40N 42-31-10E	UR 0324-15	SA-2, link	[redacted]	[redacted]	[redacted]
14	Kutaisi SAM Site B11-2, [redacted]	42-12-50N 42-59-10E	UR 0324-15	SA-2, link	[redacted]	[redacted]	[redacted]
16	Batumi SAM Site A24-2, [redacted]	41-37-45N 41-36-00E	UR 0324-15	SA-2, link	[redacted]	[redacted]	[redacted]
B USSR Southern Border Probable Secondary SAM Defenses (this site forms part of a probable secondary barrier stretching between the Black and Caspian Seas)							
15	Pyatigorsk SAM Site A25-2, [redacted]	43-59-11N 42-55-40E	UR 0324-5	SA-2, star	[redacted]	[redacted]	[redacted]

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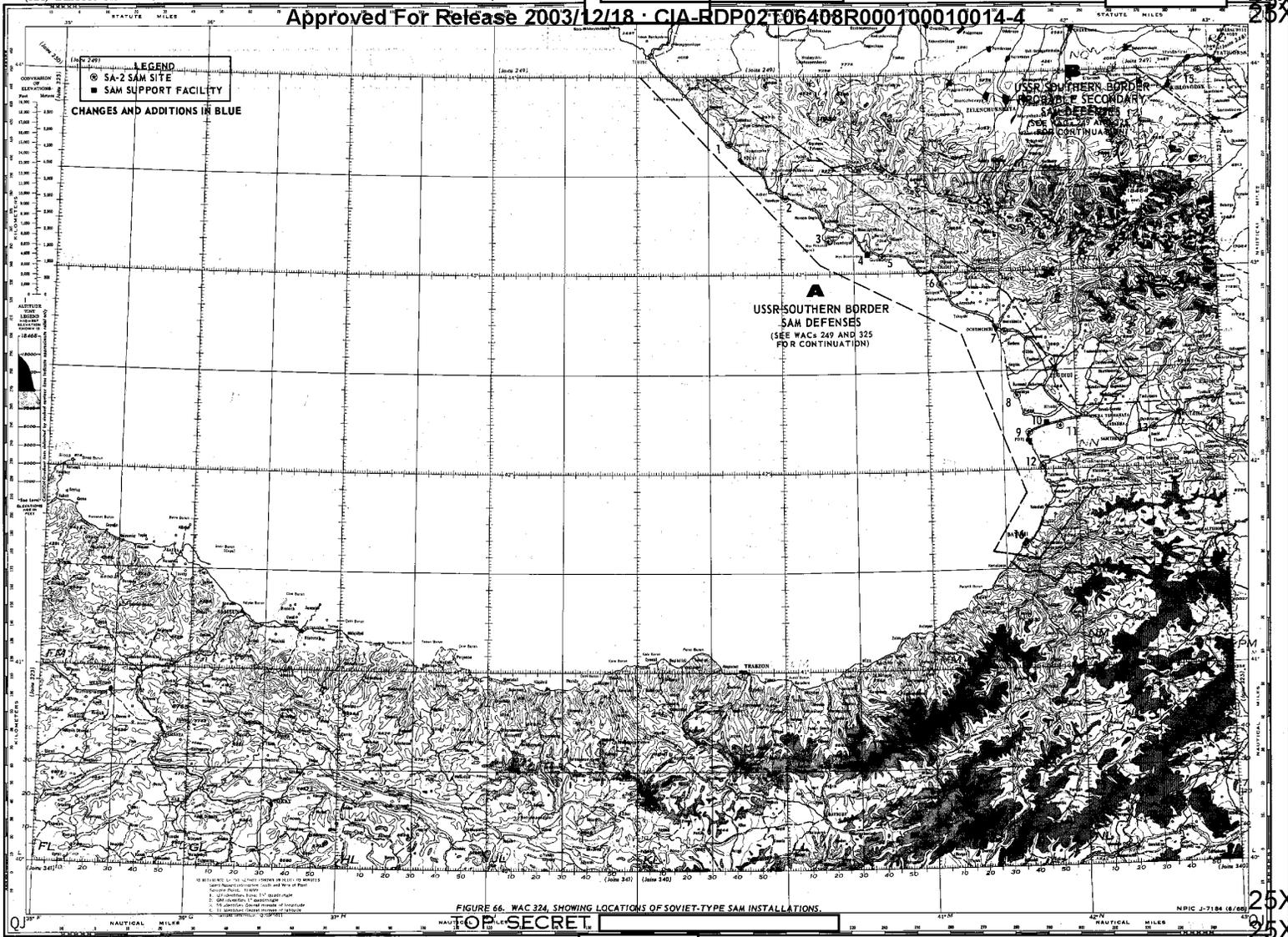
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Table 64. SAM Installations on WAC 325.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
▲ USSR Southern Border Probable Secondary SAM Defenses (These sites form a probable secondary barrier in defense of the southern border of the USSR, and also defend Nalchik, minor complex containing several explosives-storage areas; Ordzhonikidze, ore processing plants and POL storage; Groznyy, major POL complex including airfields, POL refineries and POL production equipment plants; Groznyy MRBM Complex; Gollu IRBM Complex; Makhachkala Caspian Sea port containing POL storage and transshipment facilities, ship equipment plant, munitions plant)							
1	Nalchik SAM Site B33-2, [redacted]	43-40-30N 43-24-30E	UR 0325-1	SA-2, star			[redacted]
2	Nalchik SAM Support Facility, [redacted]	43-32-00N 43-37-00E	UR 0325-1	Type II (square)			
3	Nalchik SAM Site A17-2, [redacted]	43-19-20N 43-40-26E	UR 0325-1	SA-2, star			
4	Ordzhonikidze SAM Site B31-2, [redacted]	43-08-18N 44-27-20E	UR 0325-6	SA-2, star			
5	Ordzhonikidze SAM Site A08-2, [redacted]	43-04-30N 44-46-00E	UR 0325-7	SA-2, star			
6	Ordzhonikidzevskaya SAM Support Facility, [redacted]	43-19-00N 45-02-20E	UR 0325-2	Type II (square)			
7	Groznyy SAM Site B26-2, [redacted]	43-12-05N 45-15-00E	UR 0325-2	SA-2, configuration undetermined			
8	Groznyy SAM Site B29-2, [redacted]	43-06-50N 45-29-10E	UR 0325-7	SA-2, link			
9	Groznyy SAM Support Facility, [redacted]	43-14-40N 45-25-30E	UR 0325-2	Type II (square)			
10	Groznyy SAM Site A05-2, [redacted]	43-24-50N 45-47-40E	UR 0325-2	SA-2, link			
11	Khasavyurt SAM Site A28-2, [redacted]	43-18-00N 46-26-10E	UR 0325-3	SA-2, star			
12	Makhachkala SAM Site B28-2, [redacted]	42-44-10N 47-14-30E	UR 0325-8	SA-2, fan			
13	Makhachkala SAM Support Facility, [redacted]	42-56-10N 47-29-40E	UR 0325-8	Type II (square)			
14	Makhachkala SAM Site A14-2, [redacted]	42-56-00N 47-34-00E	UR 0325-8	SA-2, star			
15	Makhachkala SAM Site C15-2, [redacted]	42-32-40N 47-51-10E	UR 0325-9	SA-2, star			
54	Nalchik SAM Site C14-2, [redacted]	43-12-00N 44-04-30E	UR 0325-6	SA-2, star			
■ USSR Southern Border SAM Defenses (in defense of the southern border of the USSR, and the following specific targets: Tbilisi, capital of the Georgian SSR, Trans-Caucasian Military District Headquarters, [redacted] airframes and machine tool plants; Kirovabad, minor complex containing POL storage facilities; Mingechaur Dam; Kyurdamir Airfield; Baku, major Caspian Sea port-extensive port facilities, shipyard, naval base, and industrial complex-numerous POL refineries, POL storage areas, POL production equipment plants)							
16	Gori SAM Site B08-2, [redacted]	42-02-00N 44-21-40E	UR 0325-11	SA-2, link			[redacted]
17	Tbilisi SAM Site A32-2, [redacted]	41-47-00N 45-43-00E	UR 0325-12	SA-2, link			
18	Tbilisi SAM Site B24-2, [redacted]	41-35-00N 44-36-00E	UR 0325-17	SA-2, link			
19	Tbilisi SAM Site B15-2, [redacted]	41-31-30N 44-55-00E	UR 0325-12	SA-2, link			
20	Tbilisi SAM Support Facility, [redacted]	41-37-05N 44-52-56E	UR 0325-12	Type I (rectangular)			
21	Tbilisi SAM Site B08-2, [redacted]	41-46-30N 45-02-30E	UR 0325-12	SA-2, link			
22	Tsiteli-Tskaro SAM Site A25-2, [redacted]	41-26-45N 46-03-00E	UR 0325-17	SA-2, see remarks			
28	Tsiteli-Tskaro SAM Site A10-2, [redacted]	41-27-20N 46-18-40E	UR 0325-18	SA-2, configuration undetermined			
24	Kirovabad SAM Site A10-2, [redacted]	40-40-00N 46-28-30E	UR 0325-23	SA-2, configuration undetermined			
25	Kirovabad SAM Site A18-2, [redacted]	40-36-40N 46-23-30E	UR 0325-23	SA-2, link			
26	Mingechaur SAM Site B27-2, [redacted]	40-45-00N 46-43-53E	UR 0325-23	SA-2, star			
27	Mingechaur SAM Site B09-2, [redacted]	40-57-10N 47-01-20E	UR 0325-18	SA-2, star			
28	Mingechaur SAM Support Facility, [redacted]	40-45-10N 47-00-00E	UR 0325-23	Type I (rectangular)			
29	Mingechaur SAM Site B00-2, [redacted]	40-34-10N 46-50-40E	UR 0325-23	SA-2, star			
30	Mingechaur SAM Site B11-2, [redacted]	40-42-10N 47-15-00E	UR 0325-23	SA-2, star			
31	Mingechaur SAM Site C12-2, [redacted]	40-32-42N 47-38-00E	UR 0325-23	SA-2, configuration undetermined			
32	Kyurdamir SAM Site A02-2, [redacted]	40-23-00N 46-09-30E	UR 0325-24	SA-2, configuration undetermined			

Site No 22 has a star configuration within a modified link configuration. The ring road is oversized. An unimproved site, consisting of a circular road and nonreveted launch positions, is located approximately one nautical mile northeast of this site at 41-27-45N 46-04-15E. This unimproved site was first seen on [redacted] and can be negated on Mission [redacted]

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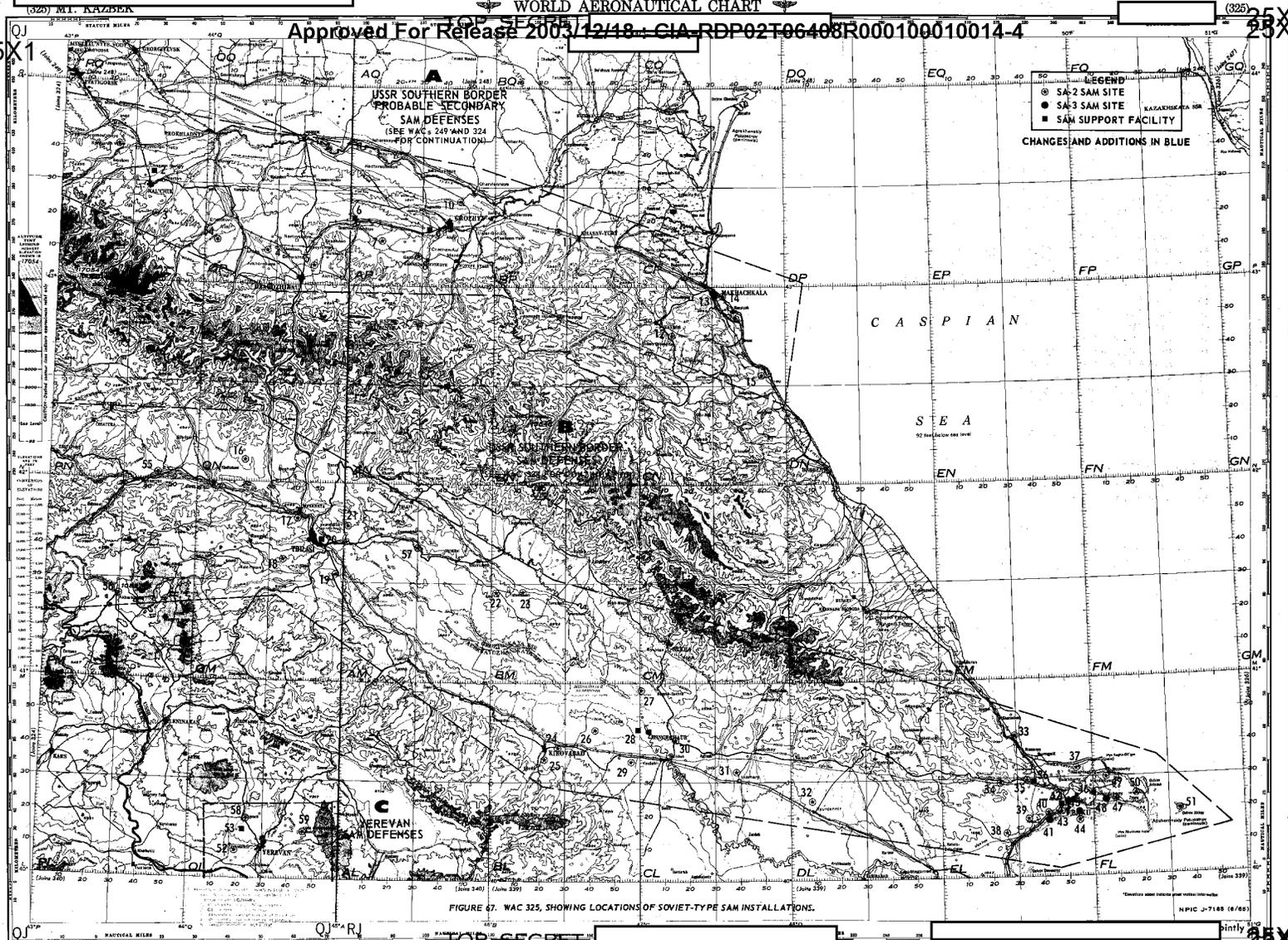


FIGURE 47. WAC 325, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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MT. KAZBEK (325)
TURKEY-USSR

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Table 64. SAM Installations on WAC 385 (continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
B USSR Southern Border SAM Defenses (continued)							
33	Baku SAM Site C33-2, [redacted]	40-42-50N 49-30-30E	UR 0325-25	SA-2, link			[redacted]
34	Baku SAM Site C29-2, [redacted]	40-38-40N 49-24-40E	UR 0325-25	SA-2, star			
35	Baku SAM Site B30-2, [redacted]	40-29-00N 49-35-00E	UR 0325-25	SA-2, link			
36	Baku SAM Support Facility 3, [redacted]	40-29-05N 49-36-10E	UR 0325-25	Type II (square)			
37	Baku SAM Site B02-2, [redacted]	40-32-40N 49-54-30E	UR 0325-25	SA-2, fan			
38	Baku SAM Site C25-2, [redacted]	40-18-50N 49-26-25E	UR 0325-25	SA-2, fan			
39	Baku SAM Site B25-2, [redacted]	40-17-00N 49-35-10E	UR 0325-25	SA-2, link			
40	Baku SAM Site A29-2, [redacted]	40-16-45N 49-43-25E	UR 0325-25	SA-2, link			
41	Baku SAM Site A28-3, [redacted]	40-16-12N 49-48-30E	UR 0325-25	SA-2, configuration F			
42	Baku SAM Support Facility 2, [redacted]	40-20-30N 49-47-20E	UR 0325-25	Type I (rectangular)			
43	Baku SAM Site A22-2, [redacted]	40-19-50N 49-48-35E	UR 0325-25	SA-2, fan			
44	Baku SAM Site A16-2, [redacted]	40-17-35N 49-54-45E	UR 0325-25	SA-2, fan			
45	Baku SAM Site A16-3, [redacted]	40-17-55N 49-54-45E	UR 0325-25	SA-3, configuration F			
46	Baku SAM Support Facility 1, [redacted]	40-24-00N 50-01-10E	UR 0325-25	Type I (rectangular)			
47	Baku SAM Site B10-2, [redacted]	40-22-30N 50-07-40E	UR 0325-25	SA-2, prob link			
48	Baku SAM Site B10-3, [redacted]	40-22-30N 50-07-00E	UR 0325-25	SA-3, configuration F			
49	Baku SAM Site B06-2, [redacted]	40-22-40N 50-06-00E	UR 0325-25	SA-2, star			
50	Baku SAM Site B09-2, [redacted]	40-24-00N 50-18-00E	UR 0325-25	SA-2, daisy			
51	Baku SAM Site D10-2, [redacted]	40-19-20N 50-85-30E	UR 0325-25	SA-2, probable link			
53	Gori SAM Site B99-2, [redacted]	43-02-20N 43-42-50E	UR 0325-11	SA-2, link			
56	Akhalkalaki SAM Site [redacted]	41-25-30N 43-25-00E	UR 0325-16	SA-2, configuration undetermined			
57	Tbilisi SAM Site D10-2, [redacted]	41-40-20N 45-29-00E	UR 0325-12	SA-2, configuration undetermined			
C Yerevan SAM Defenses (in defense of Yerevan, major industrial complex including synthetic rubber, chemical, electrical machinery, and aluminum production)							
52	Yerevan SAM Site A25-2, [redacted]	40-06-55N 44-19-57E	UR 0325-21	SA-2, link			[redacted]
58	Yerevan SAM Support Facility [redacted]	40-12-55N 44-22-48E	UR 0325-21	Type I (rectangular)			
58	Yerevan SAM Site B33-2, [redacted]	40-18-50N 44-21-50E	UR 0325-21	SA-2, possible star			
59	Yerevan SAM Site B07-2, [redacted]	40-14-50N 44-43-50E	UR 0325-22	SA-2, link			

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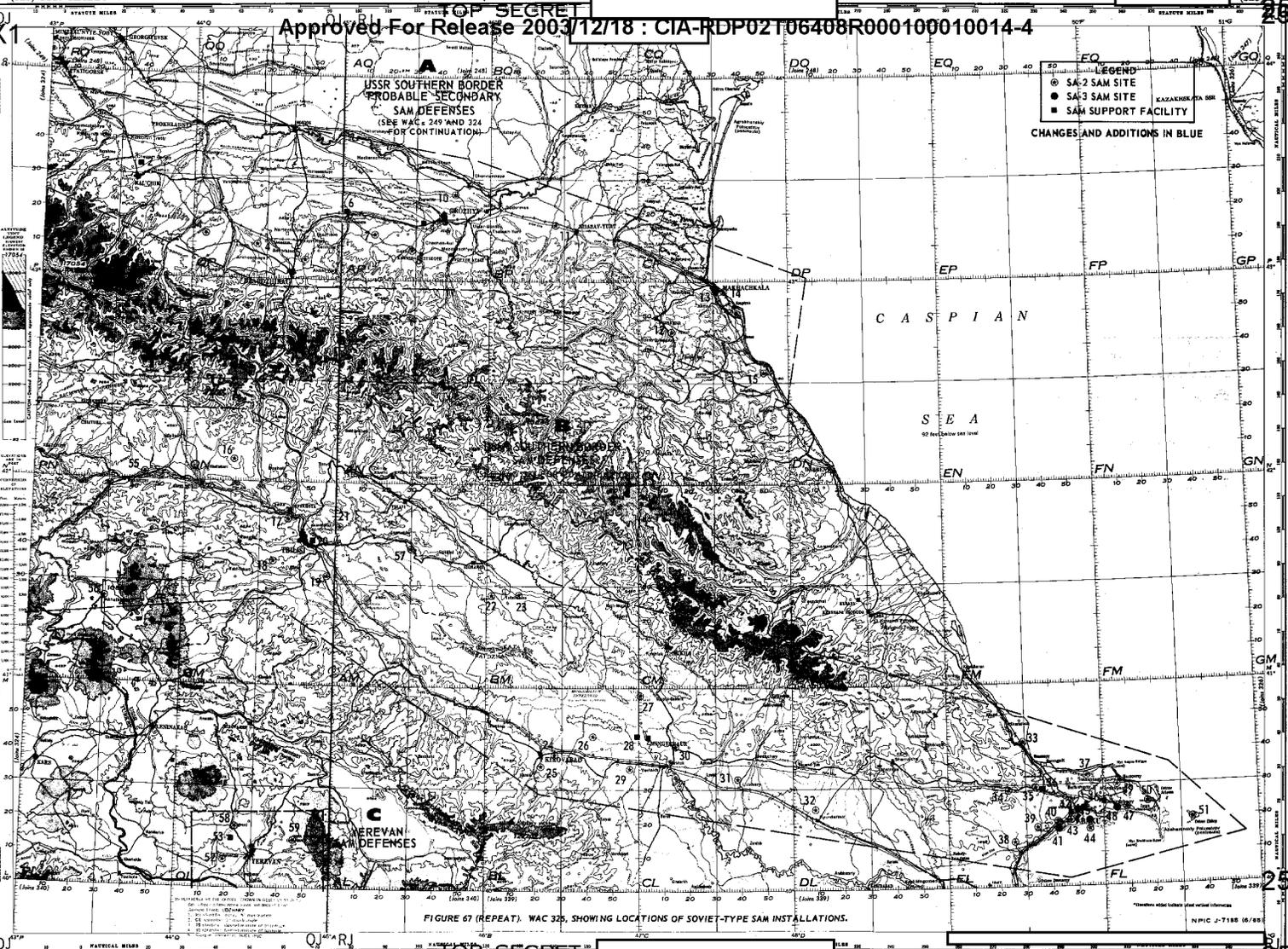


FIGURE 67 (REPEAT): WAC 325, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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MT. KAZBEK (325) TURKEY-USSR

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Table 65. SAM Installations on WAC 286.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
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▲ Central Asian Border SAM Defenses (in defense of Central Asian border of USSR, and in defense of Krasnovodsk, largest seaport on the east coast of the Caspian Sea and major petroleum center with extensive POL storage facilities)

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1	Krasnovodsk SAM Site A28-2, [redacted]	40-01-00N 52-48-30E	UR 0326-22	SA-2, daisy	[redacted]		
2	Krasnovodsk SAM Site B01-2, [redacted]	40-13-15N 53-01-50E	UR 0326-22	SA-2, link	[redacted]		

25X1 †Classification of all photo references on this page is TOP SECRET [redacted] TOP SECRET [redacted] unless otherwise indicated following an individual reference.

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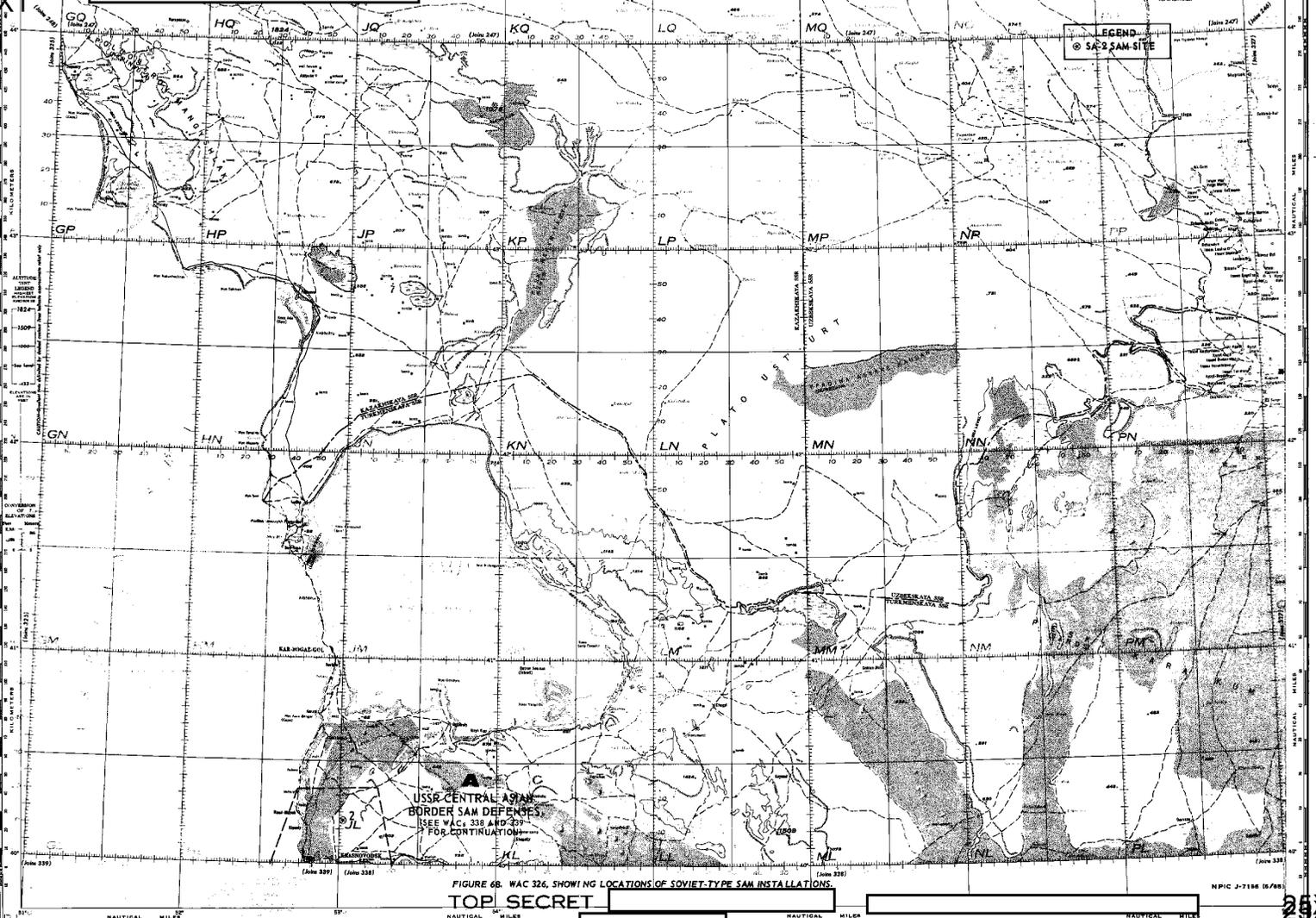


FIGURE 68. WAC 326, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 66. SAM Installations on WAC 328.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated†	Remarks																																																																																																																																																																																																								
▲ USSR Central Asian Border SAM Defenses (in defense of the central Asian border of the USSR, and specific targets: Tashkent, capital of Uzbek SSR, Headquarters Turkestan Military District, transportation center and industrial center-aircraft assembly, textile production; Chirchik, Air Defense Sector Headquarters, electrochemical combine; Chimkent, lead smelting and refining plants, chemical plants; Dzhambul, Lugovoy Airfield, jet fighter and bomber base, and a superphosphate plant; Frunze, motor vehicle assembly plant, agricultural machinery plant,								1	Slavyanka SAM Site A21-2	40-39-00N 68-32-30E	UR 0328-21	SA-2, link				2	Tashkent SAM Site D23-2	40-37-40N 68-46-00E	UR 0328-17	SA-2, link				3	Tashkent SAM Site B22-2	41-10-20N 69-08-20E	UR 0328-17	SA-2, link				4	Tashkent SAM Site B15-2	41-08-10N 69-25-40E	UR 0328-17	SA-2, link				5	Tashkent SAM Support Facility	41-20-20N 69-24-50E	UR 0328-17	Type I (rectangular)				6	Tashkent SAM Site A06-2	41-25-28N 69-26-50E	UR 0328-17	SA-2, link				7	Tashkent SAM Site A33-2	41-24-10N 69-10-50E	UR 0328-17	SA-2, link				8	Leninskoye SAM Site A07-2	41-46-20N 69-25-00E	UR 0328-12	SA-2, link				9	Chimkent SAM Site B21-2	42-08-05N 69-31-10E	UR 0328-12	SA-2, link				10	Chimkent SAM Support Facility	42-30-20N 69-37-40E	UR 0328-12	Type II (square)				11	Chimkent SAM Site B06-2	42-21-43N 69-54-03E	UR 0328-12	SA-2, link				12	Burnoye SAM Site C27-2	42-35-03N 70-16-45E	UR 0328-8	SA-2, configuration irregular				13	Burnoye SAM Site A38-2	42-42-10N 70-45-00E	UR 0328-8	SA-2, link				14	Dzhambul SAM Site A25-2	42-50-20N 71-13-30E	UR 0328-8	SA-2, link				15	Dzhambul SAM Site B07-2	43-00-00N 71-38-35E	UR 0328-8	SA-2, link				16	Lugovoy SAM Site C28-2	43-00-40N 72-04-50E	UR 0328-9	SA-2, link				17	Lugovoy SAM Site A29-2	43-00-20N 72-31-10E	UR 0328-9	SA-2, link				18	Lugovoy SAM Site B08-2	43-06-30N 72-02-10E	UR 0328-9	SA-2, link				19	Karabaly SAM Site B29-2	42-54-00N 72-31-20E	UR 0328-10	SA-2, link				20	Frunze SAM Site C28-2	42-55-50N 74-02-45E	UR 0328-10	SA-2, link				21	Frunze SAM Support Facility	42-53-10N 74-26-00E	UR 0328-10	Type II (square)				22	Frunze SAM Site A33-2	42-56-25N 74-29-42E	UR 0328-10	SA-2, link				23	Frunze SAM Site B07-2	42-58-10N 72-51-20E	UR 0328-10	SA-2, link				24	Dzhizak SAM Site A14-2	40-05-10N 67-49-50E	UR 0328-21	SA-2, configuration undetermined				25	Slavyanka SAM Site B22-2	40-32-00N 68-24-00E	UR 0328-21	SA-2, link			
1	Slavyanka SAM Site A21-2	40-39-00N 68-32-30E	UR 0328-21	SA-2, link																																																																																																																																																																																																											
2	Tashkent SAM Site D23-2	40-37-40N 68-46-00E	UR 0328-17	SA-2, link																																																																																																																																																																																																											
3	Tashkent SAM Site B22-2	41-10-20N 69-08-20E	UR 0328-17	SA-2, link																																																																																																																																																																																																											
4	Tashkent SAM Site B15-2	41-08-10N 69-25-40E	UR 0328-17	SA-2, link																																																																																																																																																																																																											
5	Tashkent SAM Support Facility	41-20-20N 69-24-50E	UR 0328-17	Type I (rectangular)																																																																																																																																																																																																											
6	Tashkent SAM Site A06-2	41-25-28N 69-26-50E	UR 0328-17	SA-2, link																																																																																																																																																																																																											
7	Tashkent SAM Site A33-2	41-24-10N 69-10-50E	UR 0328-17	SA-2, link																																																																																																																																																																																																											
8	Leninskoye SAM Site A07-2	41-46-20N 69-25-00E	UR 0328-12	SA-2, link																																																																																																																																																																																																											
9	Chimkent SAM Site B21-2	42-08-05N 69-31-10E	UR 0328-12	SA-2, link																																																																																																																																																																																																											
10	Chimkent SAM Support Facility	42-30-20N 69-37-40E	UR 0328-12	Type II (square)																																																																																																																																																																																																											
11	Chimkent SAM Site B06-2	42-21-43N 69-54-03E	UR 0328-12	SA-2, link																																																																																																																																																																																																											
12	Burnoye SAM Site C27-2	42-35-03N 70-16-45E	UR 0328-8	SA-2, configuration irregular																																																																																																																																																																																																											
13	Burnoye SAM Site A38-2	42-42-10N 70-45-00E	UR 0328-8	SA-2, link																																																																																																																																																																																																											
14	Dzhambul SAM Site A25-2	42-50-20N 71-13-30E	UR 0328-8	SA-2, link																																																																																																																																																																																																											
15	Dzhambul SAM Site B07-2	43-00-00N 71-38-35E	UR 0328-8	SA-2, link																																																																																																																																																																																																											
16	Lugovoy SAM Site C28-2	43-00-40N 72-04-50E	UR 0328-9	SA-2, link																																																																																																																																																																																																											
17	Lugovoy SAM Site A29-2	43-00-20N 72-31-10E	UR 0328-9	SA-2, link																																																																																																																																																																																																											
18	Lugovoy SAM Site B08-2	43-06-30N 72-02-10E	UR 0328-9	SA-2, link																																																																																																																																																																																																											
19	Karabaly SAM Site B29-2	42-54-00N 72-31-20E	UR 0328-10	SA-2, link																																																																																																																																																																																																											
20	Frunze SAM Site C28-2	42-55-50N 74-02-45E	UR 0328-10	SA-2, link																																																																																																																																																																																																											
21	Frunze SAM Support Facility	42-53-10N 74-26-00E	UR 0328-10	Type II (square)																																																																																																																																																																																																											
22	Frunze SAM Site A33-2	42-56-25N 74-29-42E	UR 0328-10	SA-2, link																																																																																																																																																																																																											
23	Frunze SAM Site B07-2	42-58-10N 72-51-20E	UR 0328-10	SA-2, link																																																																																																																																																																																																											
24	Dzhizak SAM Site A14-2	40-05-10N 67-49-50E	UR 0328-21	SA-2, configuration undetermined																																																																																																																																																																																																											
25	Slavyanka SAM Site B22-2	40-32-00N 68-24-00E	UR 0328-21	SA-2, link																																																																																																																																																																																																											

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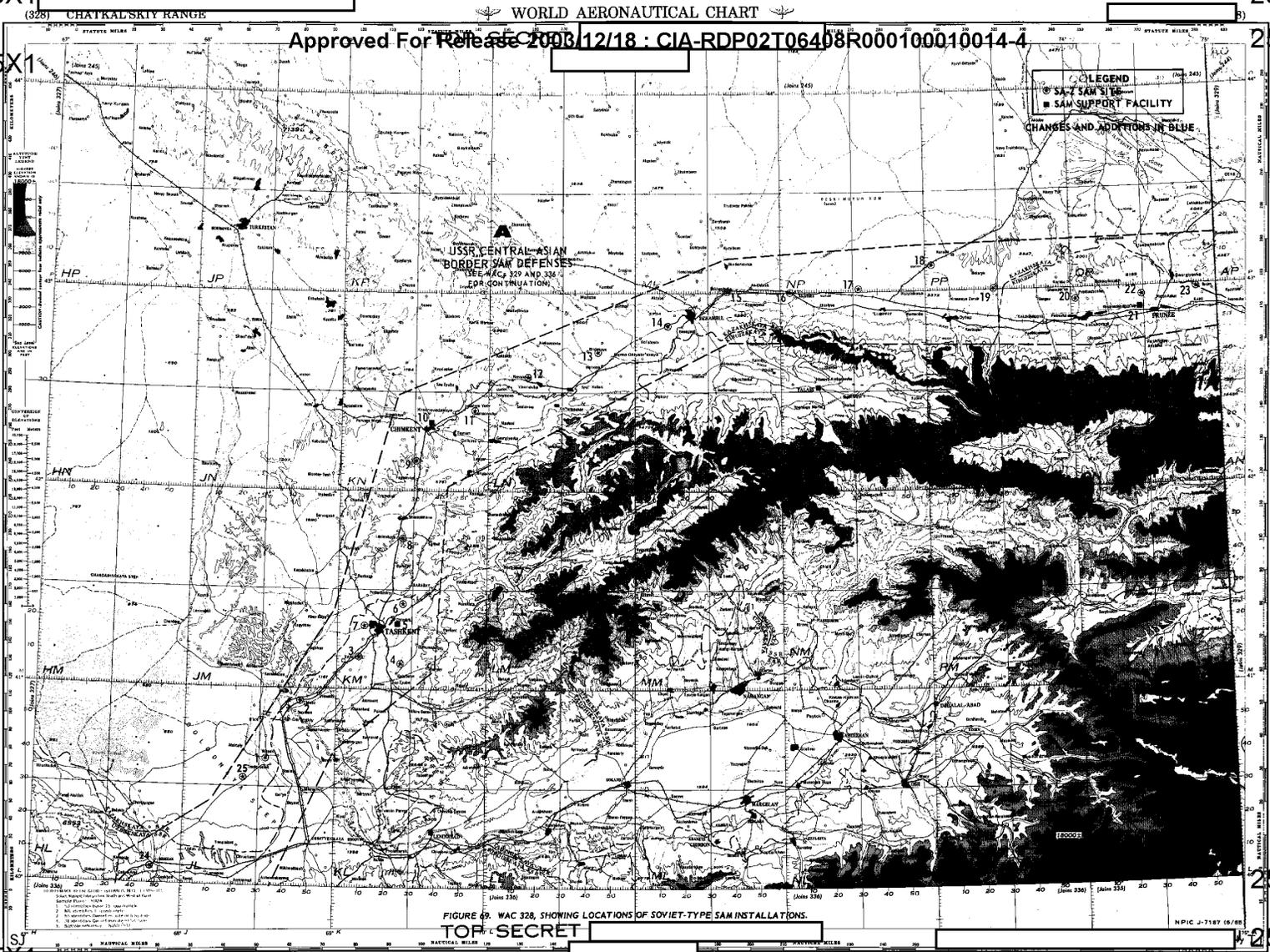
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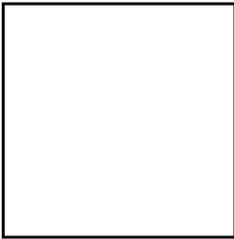
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CHATKALSKIY RANGE (328)

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Table 67. SAM Installations on WAC 329.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated	Remarks
▲ USSR Central Asian Border SAM Defenses (in defense of the Central Asian Border of the USSR, and specific targets: Alma-Ata, capital of Kazakh SSR, Air Defense Sector Headquarters, and industrial center-rail repair facilities, machine tool plant, heavy machinery production and munitions production)							
1	Otar SAM Site A13-2,	43-31-40N 75-13-00E	UR 0329-1	SA-2, link			 <p>Located 0.5 nautical mile north-northwest of the support facility at 43-23-45N 78-54-25E is a secured motor pool area containing probable SAM-related equipment. It was first seen on [redacted] and was not present on [redacted]</p>
2	Otar SAM Site B09-2,	43-33-20N 75-35-15E	UR 0329-1	SA-2, configuration undetermined			
3	Otar SAM Site D11-2,	43-20-00N 76-01-00E	UR 0329-1	SA-2, link			
4	Alma-Ata SAM Site B31-2,	43-23-00N 76-35-50E	UR 0329-2	SA-2, link			
5	Alma-Ata SAM Support Facility,	43-22-20N 76-54-30E	UR 0329-2	Type II (square)			
6	Alma-Ata SAM Site A03-2,	43-23-50N 77-01-19E	UR 0329-2	SA-2, link			
7	Alma-Ata SAM Site C08-2,	43-40-43N 77-08-50E	UR 0329-2	SA-2, link			
8	Ili SAM Site A38-2,	43-55-30N 77-11-00E	UR 0329-2	SA-2, link			

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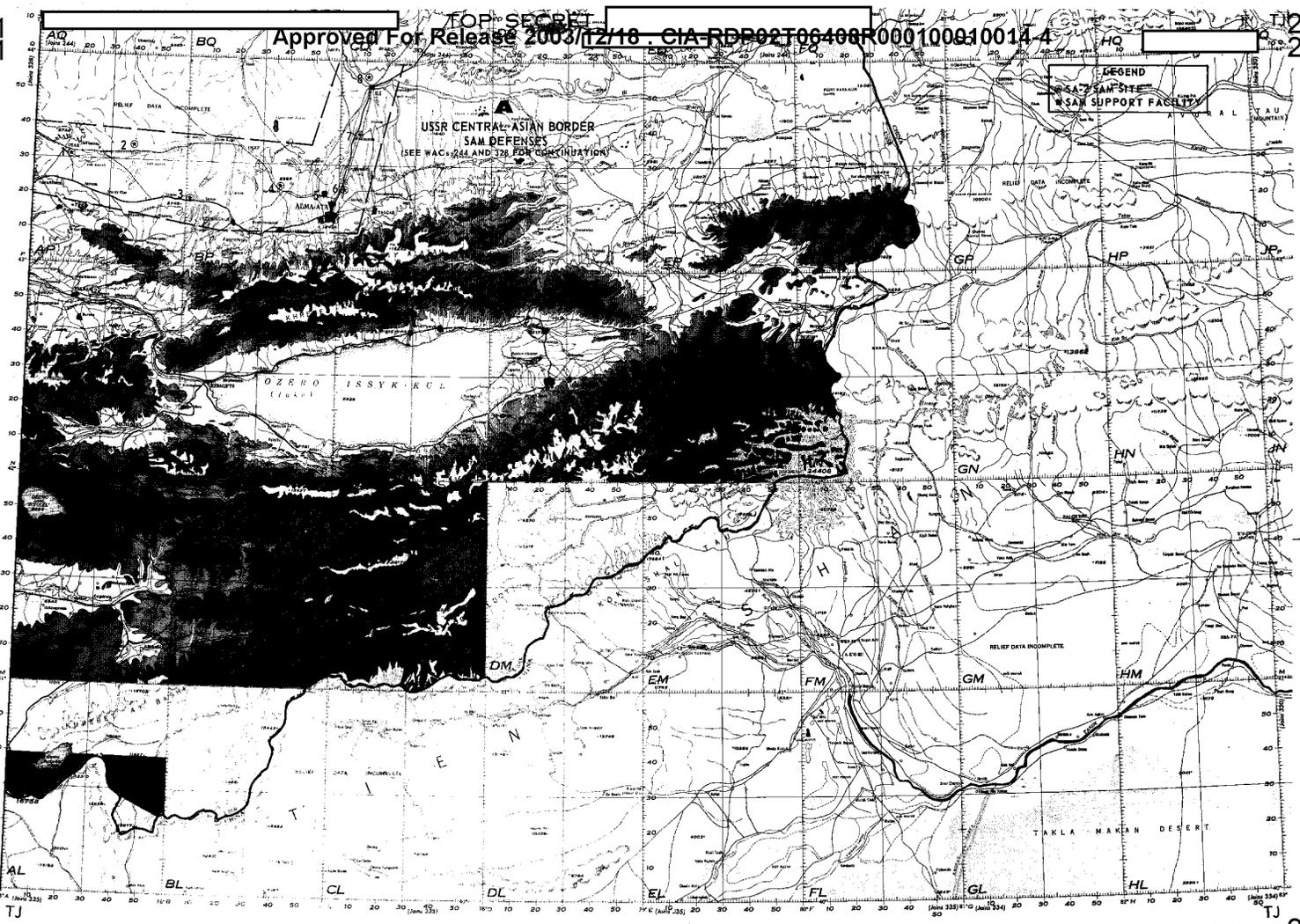


FIGURE 70. WAC 329, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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T'BIEN RANGE (329)

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Table 68. SAM Installations on WAC 336

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
A USSR Central Asian Border SAM Defenses (in defense of the central Asian border of the USSR and Samarkand: a minor complex containing light industry)							
1	Samarkand SAM Site A10-2, [redacted]	39-44-20N 67-08-49E	UR 0336-1	SA-2, probable link	[redacted]		
2	Samarkand SAM Support Facility, [redacted]	39-44-10N 67-07-00E	UR 0336-1	Type II (square)			
4	Samarkand SAM Site C07-2, [redacted]	39-50-46N 67-30-30E	UR 0336-1	SA-2, configuration undetermined			
B Dushanbe SAM Defenses (in defense of Dushanbe, capital of Tadzhik SSR: air defense sector headquarters, government control center; light and heavy industry including a tractor plant and a textile plant; Gissar Airfield-large military airfield)							
3	Dushanbe SAM Site A27-2, [redacted]	38-33-00N 68-38-00E	UR 0336-7	SA-2, configuration undetermined	[redacted]		
5	Dushanbe SAM Site A08-2, [redacted]	38-35-35N 68-56-20E	UR 0336-7	SA-2, link	[redacted]		

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(336) PAMIR KNOT

WORLD AERONAUTICAL CHART

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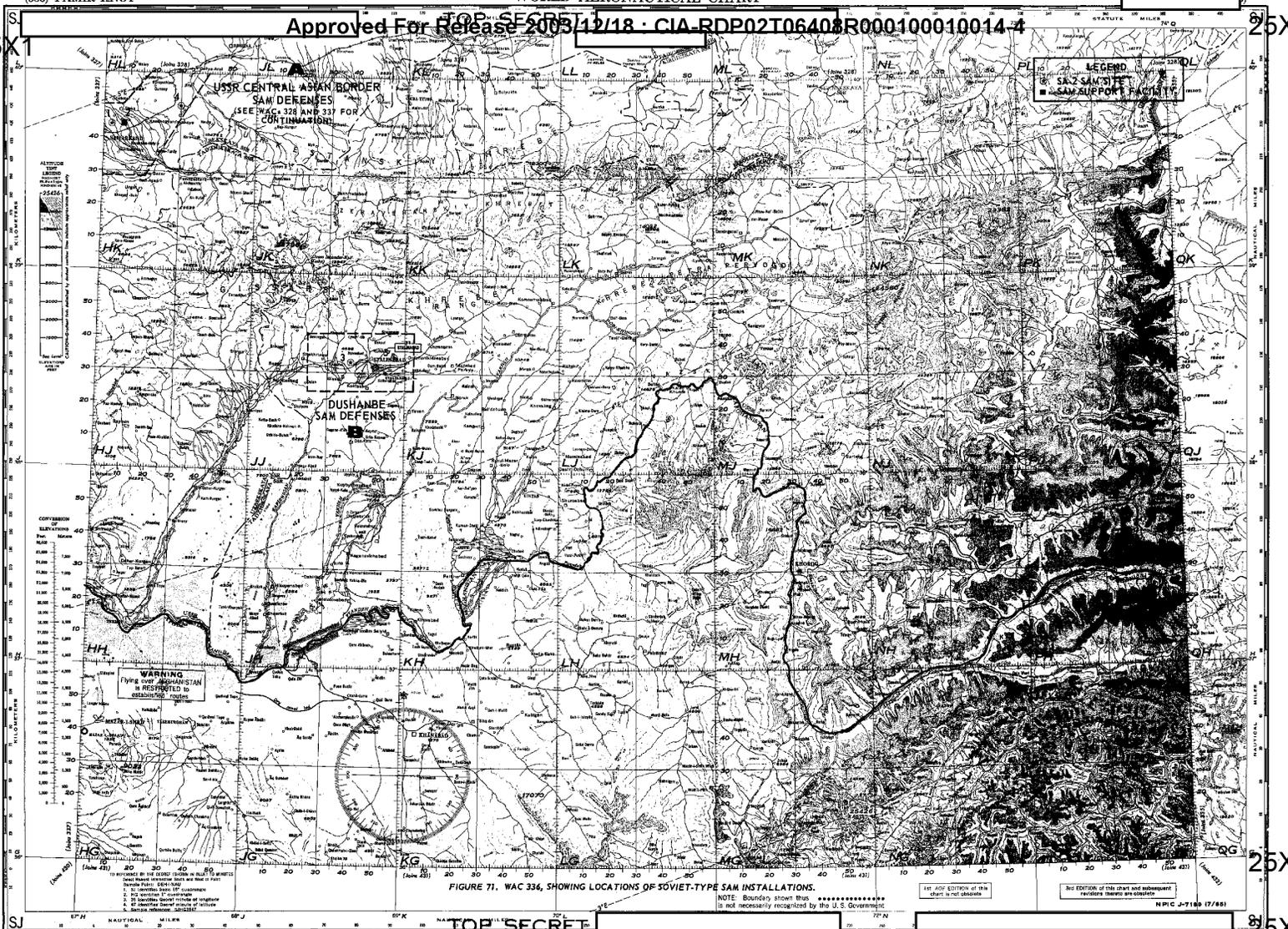


FIGURE 71. WAC 336, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

NOTE: Boundary shown thus [dashed line] is not necessarily recognized by the U.S. Government.

1st EDITION of this chart is not observed
2nd EDITION of this chart and subsequent revisions thereon are obsolete
NPIC J-7189 (7/85)

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PAMIR KNOT (336)
AFGHANISTAN - UZBEKISTAN - TAJIKISTAN - U.S.S.R.
JAMBU AND EASTERN

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Table 69. SAM Installations on WAC 337

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated†	Remarks
A USSR Central Asian Border SAM Defenses (in defense of the central Asian border of the USSR, and specific targets: Mary, several military airfields and POL storage; Bayram-Ali IRBM Complex; Chardzhou, agricultural, transportation, and light industrial center; Kurgancha MRBM Complex)							
1	Tedzhen SAM Site C24-2, [redacted]	37-11-36N 60-03-10E	UR 0337-16	SA-2, configuration undetermined	[redacted]		
2	Tedzhen SAM Site A15-2, [redacted]	37-19-45N 60-32-45E	UR 0337-16	SA-2, configuration undetermined			
3	Tedzhen SAM Site C02-2, [redacted]	37-29-20N 61-01-05E	UR 0337-16	SA-2, configuration undetermined			
4	Mary SAM Site B24-2, [redacted]	37-27-00N 61-38-30E	UR 0337-18	SA-2, configuration undetermined			
5	Bayram-Ali SAM Site B21-2, [redacted]	37-28-25N 62-01-40E	UR 0337-17	SA-2, configuration undetermined			
6	Mary SAM Support Facility, [redacted]	37-28-40N 62-01-10E	UR 0337-17	Type II (square)			
7	Bayram-Ali SAM Site B09-2, [redacted]	37-37-30N 62-28-50E	UR 0337-12	SA-2, configuration undetermined			
8	Bayram-Ali SAM Site D05-2, [redacted]	37-58-20N 62-40-00E	UR 0337-12	SA-2, configuration undetermined			
9	Chardzhou SAM Site B20-2, [redacted]	38-54-40N 68-29-40E	UR 0337-8	SA-2, link			
10	Chardzhou SAM Site B13-2, [redacted]	38-58-40N 68-45-20E	UR 0337-8	SA-2, link			
11	Chardzhou SAM Support Facility, [redacted]	39-03-30N 68-34-00E	UR 0337-8	Type II (square)			
12	Chardzhou SAM Site B30-2, [redacted]	39-08-00N 68-27-50E	UR 0337-8	SA-2, link			
13	Bukhara SAM Site C25-2, [redacted]	39-35-00N 64-00-28E	UR 0337-3	SA-2, probable link			
14	Bukhara SAM Site A19-2, [redacted]	39-41-20N 64-24-16E	UR 0337-4	SA-2, link			
15	Kurgancha MRBM SAM Site B25-2, [redacted]	39-30-40N 65-46-20E	UR 0337-5	SA-2, link			
16	Kurgancha MRBM SAM Site B16-2, [redacted]	39-30-00N 66-06-30E	UR 0337-5	SA-2, link			
17	Kurgancha MRBM SAM Site B04-2, [redacted]	39-47-40N 66-06-00E	UR 0337-5	SA-2, link			
18	Samarkand SAM Site B28-2, [redacted]	39-40-00N 66-36-00E	UR 0337-5	SA-2, link			
19	Bukhara SAM Site C14-2, [redacted]	39-26-20N 64-48-00E	UR 0337-4	SA-2, configuration undetermined		One long building in the support area is visible on [redacted] however, the site cannot be identified.	
20	Bukhara SAM Site E13-2, [redacted]	39-20-10N 65-10-30E	UR 0337-4	SA-2, configuration undetermined		The site access road is visible on [redacted]	
21	Chardzhou SAM Site A03-2, [redacted]	39-12-00N 68-39-00E	UR 0337-8	SA-2, daisy		[redacted] although the site cannot be identified.	

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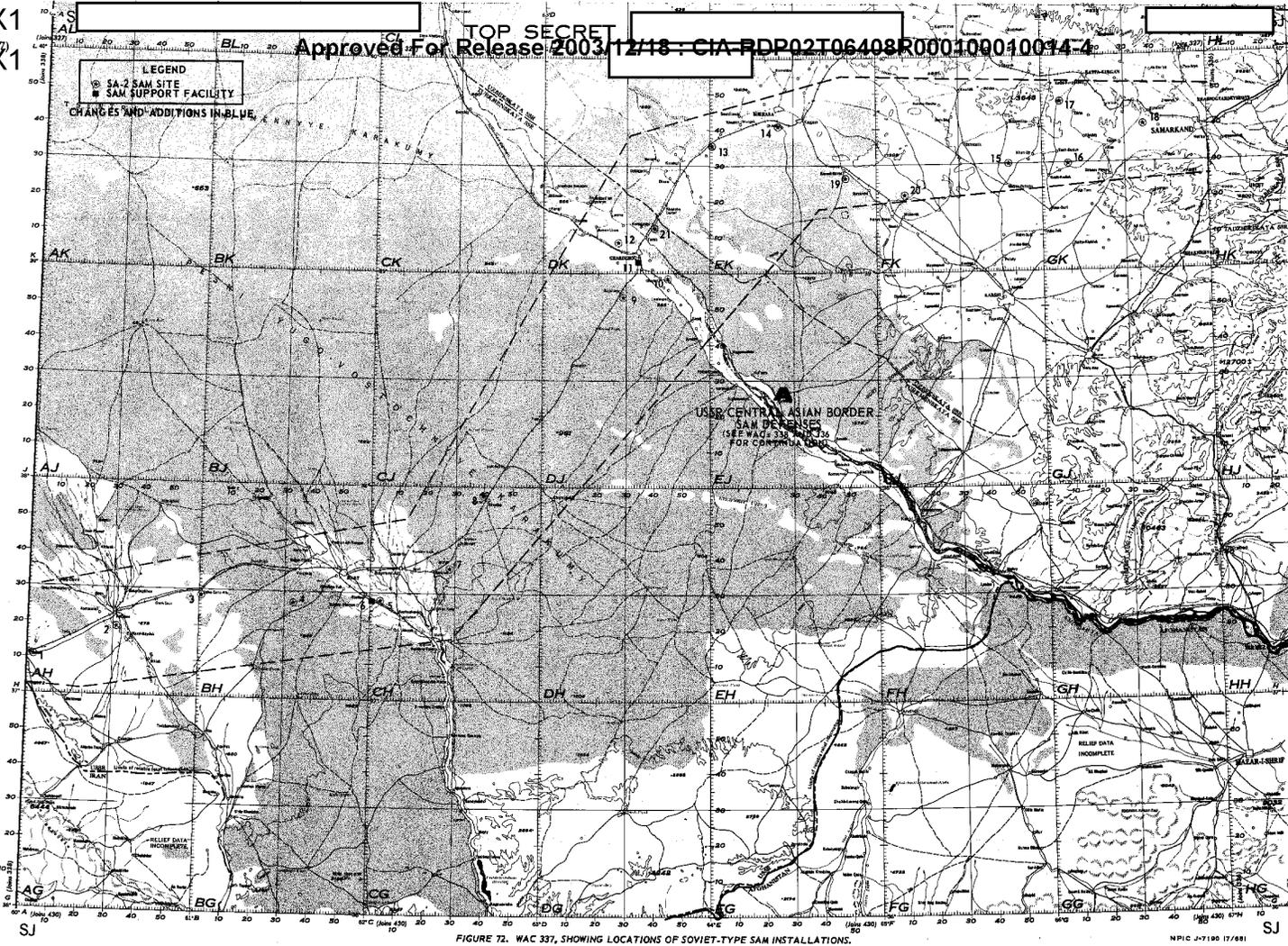


FIGURE 72. WAC 337, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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Table 71. SAM Installations on WAC 339

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears†	Mission & Date Installation Negated†	Remarks
A Ali Bayramly SAM Defenses (in defense of Salyany air defense sector headquarters and the central Asian border of USSR)							
1	Ali Bayramly SAM Site A17-2, [redacted]	39-49-30N 48-58-00E	UR 0339-3	SA-2, fan	[redacted]		
B USSR Central Asian Border SAM Defenses (in defense of the central Asian border of the USSR, and specific targets: Krasnovodsk, Black Sea port containing extensive petroleum refining and storage facilities; Nebit Dag Airfield and Dzhebel Airfield, medium bomber bases; [redacted] Kizyl-Arvat Airfield, jet fighter base; Ashkhabad, capital of Turkmen SSR, large complex containing several major military installations, [redacted] and several military airfields)							
2	Krasnovodsk SAM Site A20-9, [redacted]	39-53-00N 59-56-00E	UR 0339-5	SA-2, fan	[redacted]		
3	Krasnovodsk SAM Support Facility, [redacted]	39-59-10N 59-57-25E	UR 0339-5	Type II (square)	[redacted]		

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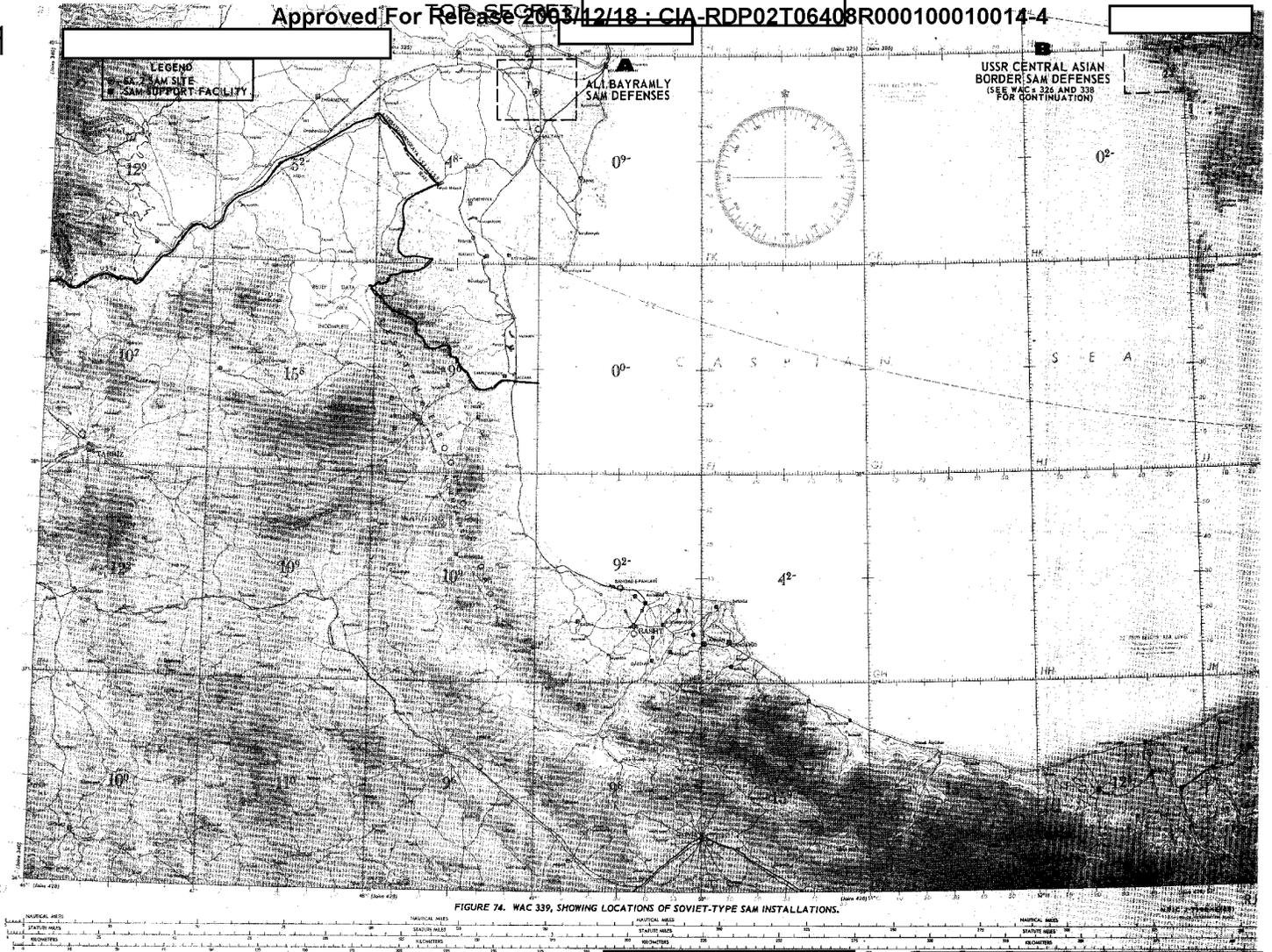
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25X

Table 78. SAM Installations on WAC 350

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
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▲ Yerevan SAM Defenses (in defense of Yerevan: major industrial complex including synthetic rubber, chemical, electrical machinery, and aluminum production)

1	Yerevan SAM Site B16-2, [Redacted]	39-59-00N 44-37-00E	UR 0340-5	SA-2, probable link	[Redacted]		
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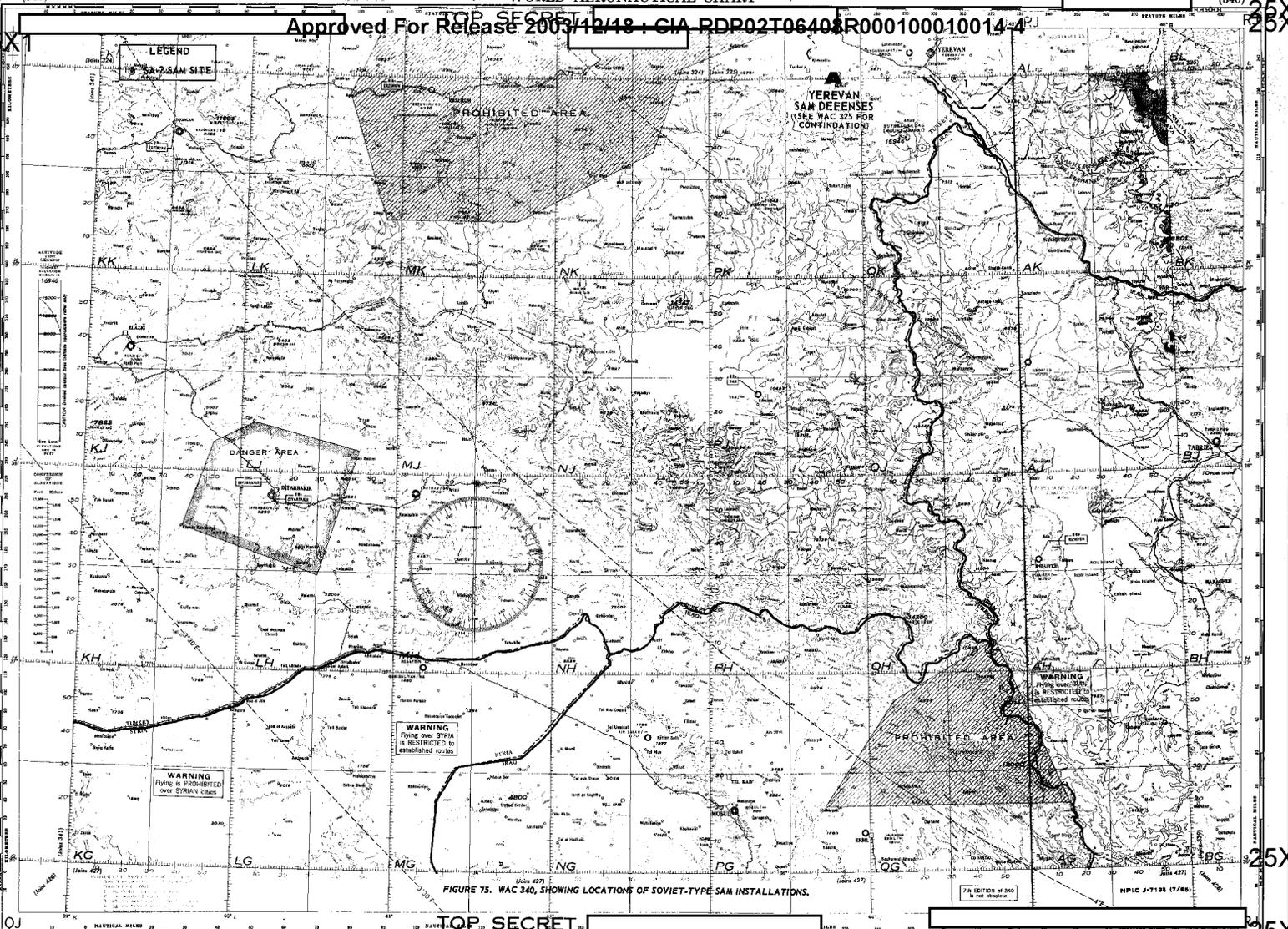


FIGURE 75. WAC 340, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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LAKE VAN (340)
IRAN-IRAQ-SYRIA-TURKEY-U.S.S.R.

25X1 [redacted]
25X1 [redacted]

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Table 73. SAM Installations on WAC 380

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated ‡	Remarks
A Pyongyang (North Korea) SAM Defense (in defense of Pyongyang, the capital of North Korea; major industrial and transportation center including iron and steel mills, railroad yards, and several civil and military airfields; Nampo Naval Base and shipyards may also be included within this defense area)							
1	Pyongyang SAM Site B29-2, [redacted]	38-48-00N 125-27-50E	KN 0380-7	SA-2, link	[redacted]		This installation is not a typical SAM support facility. It consisted, on [redacted] of groups of SAM equipment parked in open storage areas.
2	Pyongyang Probable SAM Assembly Area, [redacted]	38-51-10N 125-49-50E	KN 0380-8	See remarks			
3	Pyongyang SAM Site B17-2, [redacted]	38-45-10N 125-51-00E	KN 0380-8	SA-2, link			

25X1
25X1

25X1
25X1

25X1

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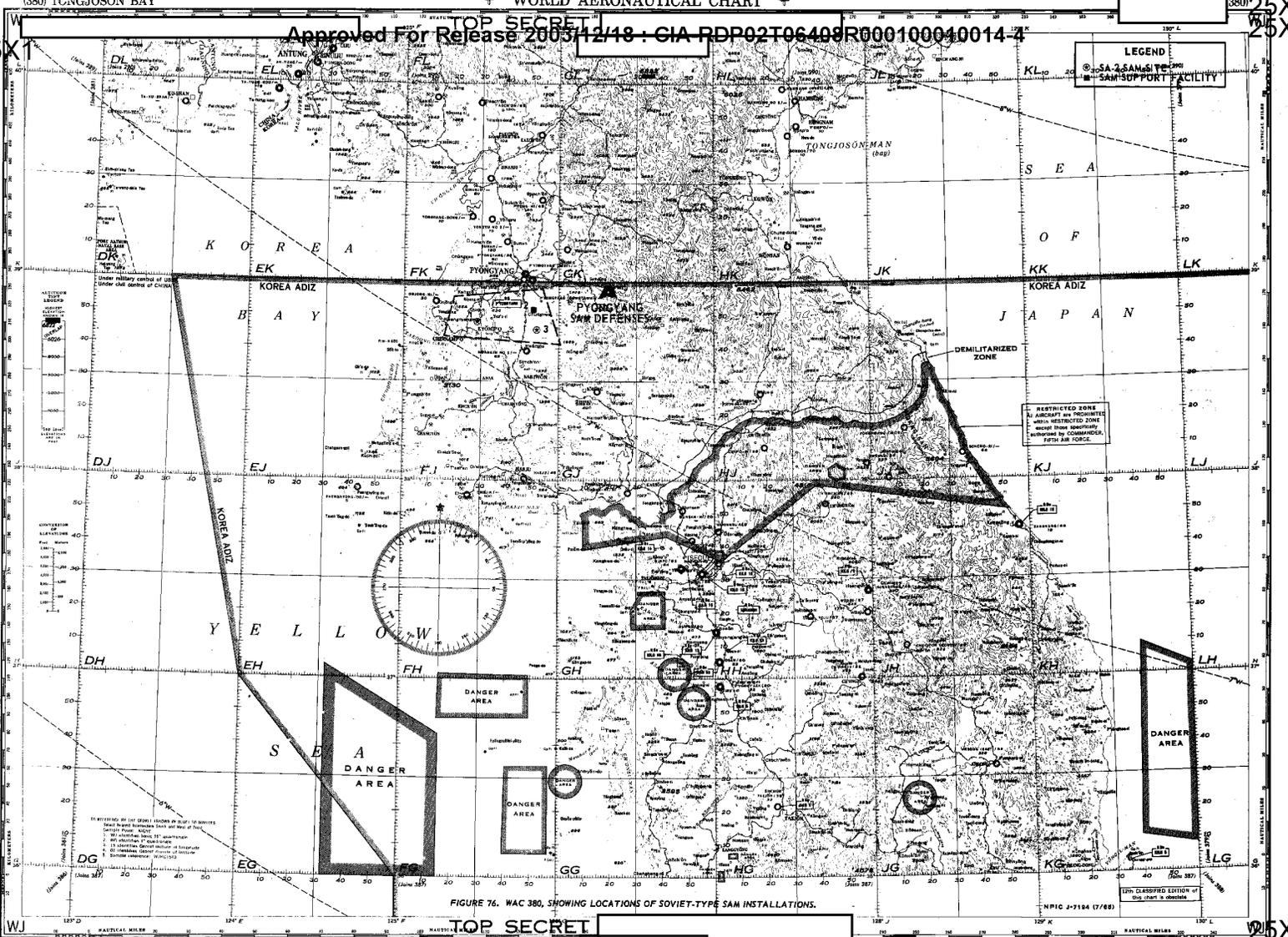


FIGURE 76. WAC 380, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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WJOSON BAY (380)
CHINA, KOREA

25X1 [redacted]
25X1 [redacted]

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[redacted]

25X

Table 74. SAM Installations on WAC 381

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears†	Mission & Date Installation Negated‡	Remarks
A Peiping (China) SAM Defenses (in defense of Peiping, the capital of Communist China: major industrial and transportation center containing numerous light and heavy industries, several military airfields and encampments, a nuclear research institute, and a rocket development center)							
1	Peiping SAM Site B26-2, [redacted]	39-51-30N 116-09-00E	CH 0381-1	SA-2, link	[redacted]		
2	Peiping SAM Site B19-2, [redacted]	39-39-20N 116-23-30E	CH 0381-1	SA-2, star			
3	Peiping SAM Site C18-2, [redacted]	39-34-00N 116-24-40E	CH 0381-1	SA-2, link			
4	Peiping SAM Site B12-2, [redacted]	39-47-58N 116-41-35E	CH 0381-1	SA-2, link			
5	Peiping SAM Site C14-2, [redacted]	39-35-10N 116-45-50E	CH 0381-1	SA-2, star			
6	Peiping SAM Site C14-2, [redacted]	39-35-10N 116-45-50E	CH 0381-1	SA-2, star			
B Te-hsien (China) SAM Site (in defense of Ku-cheng Airfield--a large military airfield)							
5	Te-hsien SAM Site A30-2, [redacted]	37-30-20N 116-07-35E	CH 0381-16	SA-2, configuration undetermined			This SAM site appears to have only 5 launch positions located on a circular road.

25X1

25X

25X1

25X1

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381 SHANTUNG PENINSULA

VJ

25X1

25X

VJ

25X1

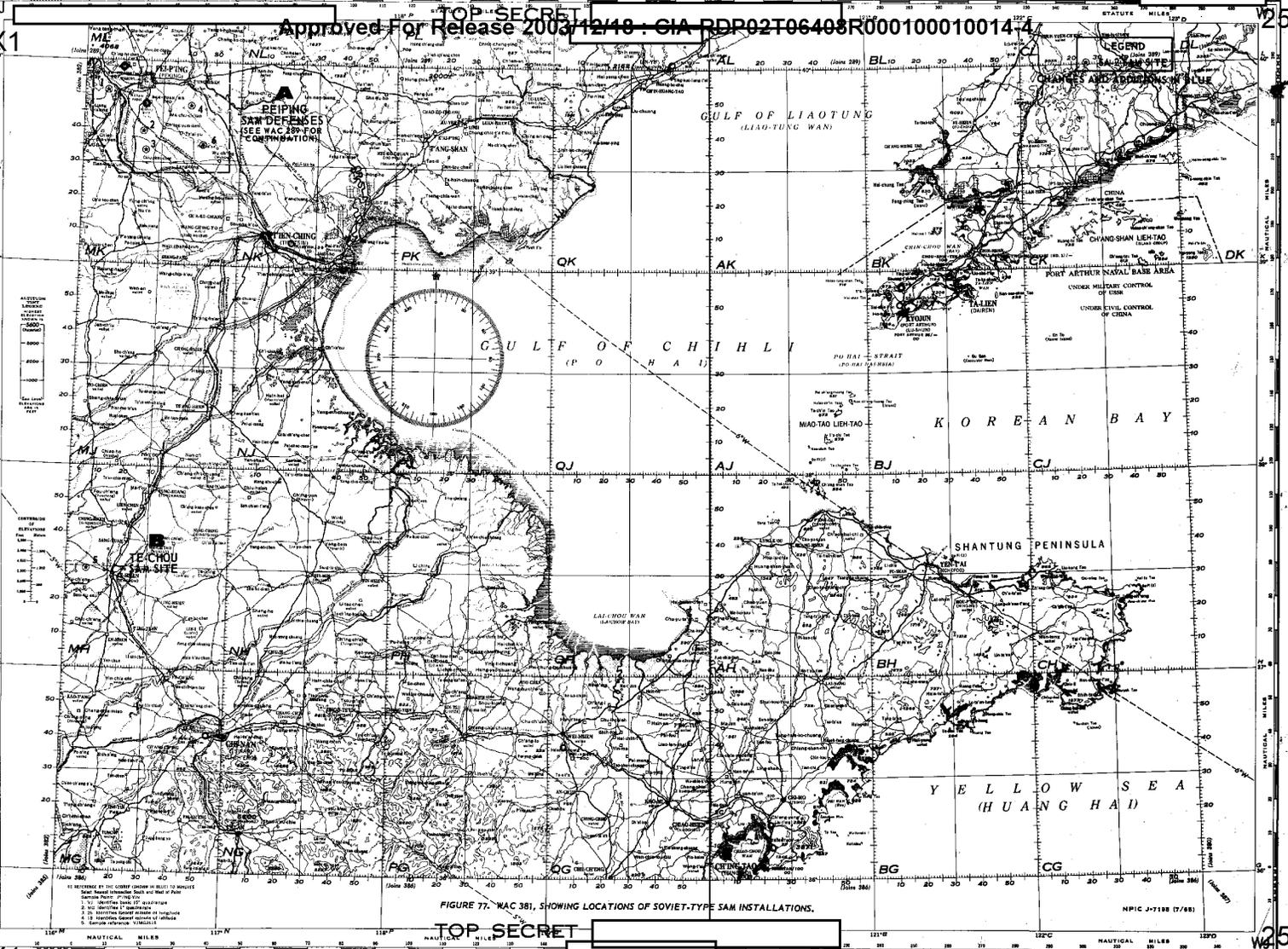


FIGURE 77. WAC 381, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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381 SHANTUNG PENINSULA

VJ

25X1

25X

VJ

25X1

SHANTUNG PENINSULA (381)

INDIA KWANFUNG

25X1

25X1

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Table 75. SAM Installations on WAC 383

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
1	Chung-wei SAM Site C02-2	37-54N 105-17E	CH 0883-18	SA-2, configuration undetermined			Due to lack of map details, this site has not been plotted to seconds.

▲ Chung-wei SAM Site (defensive role undetermined)

25X1

25X1

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25X1
25X1

(383)
25X
25X

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LEGEND
SA-2 SAM SITE

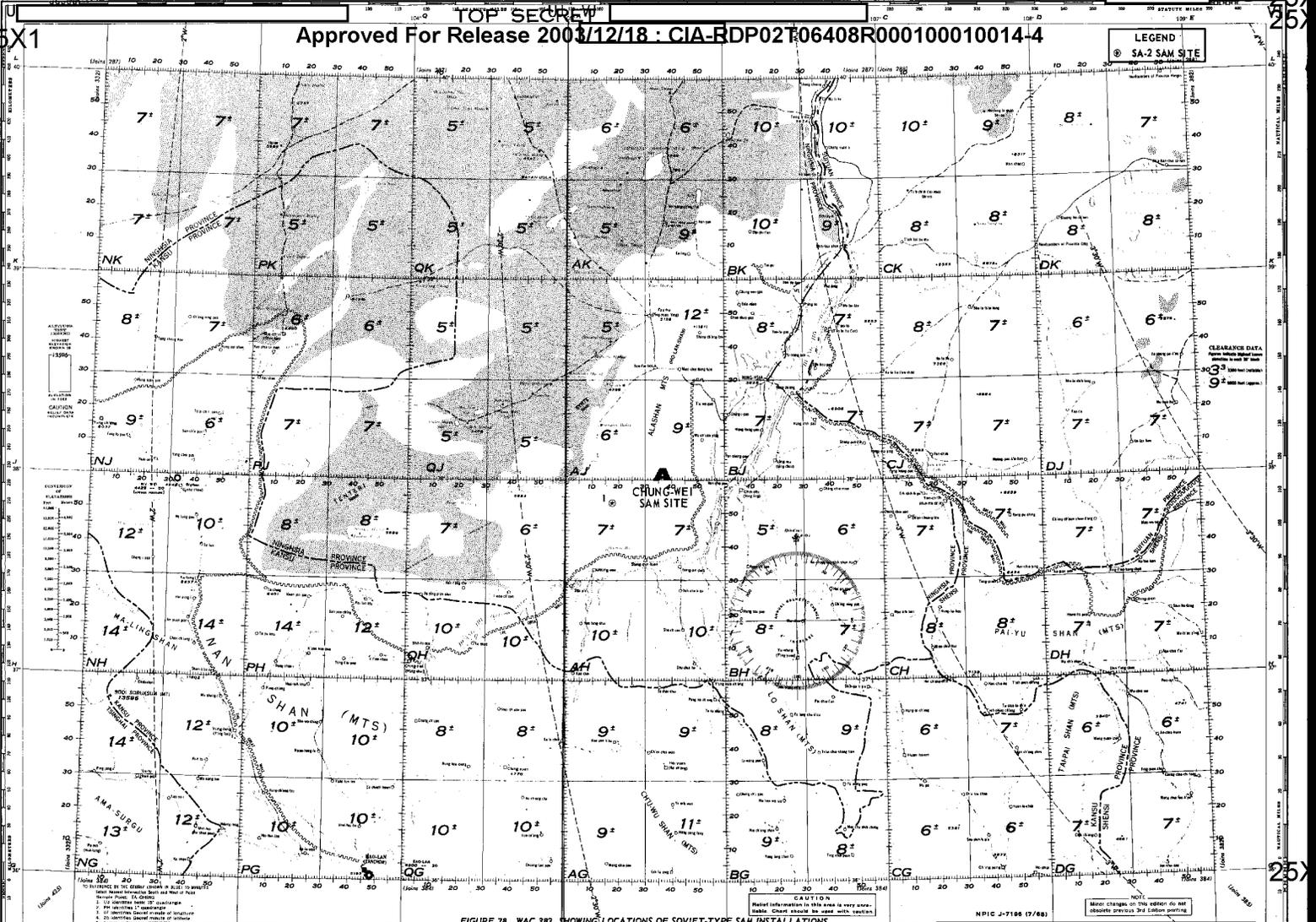


FIGURE 78. WAC 383. SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS

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25X1

(383)
25X

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ALASHAN MOUNTAINS (383)
CHINA

25X1
25X1

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Table 76. SAM Installations on WAC 384

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
25X1	A Feng-hsiang SAM Site (defensive role undetermined)	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
25X1	B Hsi-an SAM Defenses (in defense of Hsi-an)	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	This installation was deleted as a SAM site on [redacted]
25X1	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	This installation was deleted as a SAM site on [redacted]
25X1	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	This installation was deleted as a SAM site on [redacted]
25X1	4 Hsi-an SAM Site, [redacted]	34-40-40N 108-59-50E	CH 0384-10	SA-2, configuration undetermined	[redacted]	[redacted]	This SAM site originally consisted of just 3 launch positions. When seen on [redacted] an additional three launch positions were being added.

25X1

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25X1

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25X1 (384) WEI RIVER

WORLD AERONAUTICAL CHART

(384) 25X1

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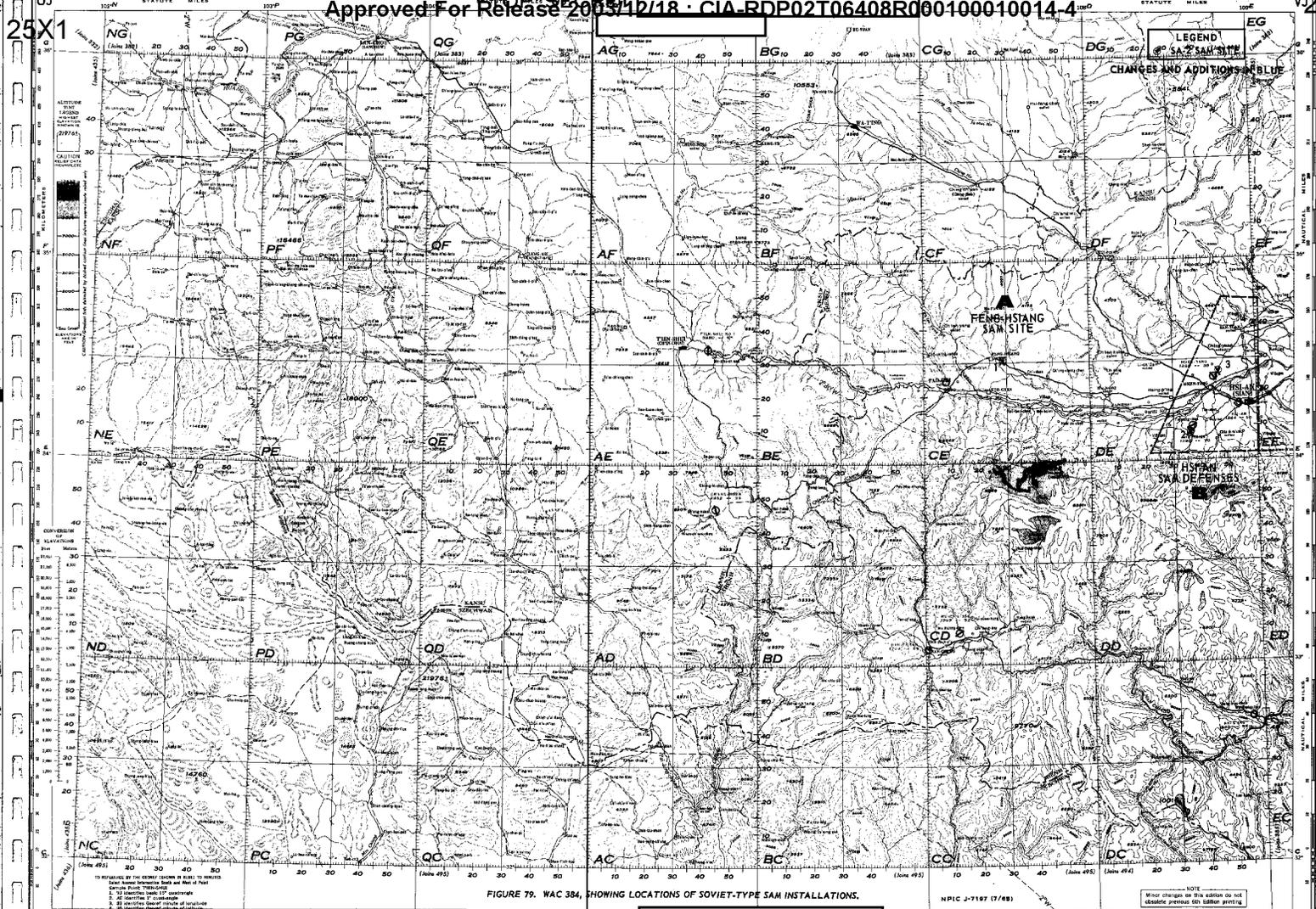


FIGURE 79. WAC 384, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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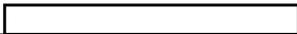
(384) WEI RIVER (384) 25X1

25X1

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25X

Table 77. SAM Installations on WAC 427

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated†	Remarks
▲ Baghdad SAM Site (see remarks)							
1	Abu Ghuragh SAM Site	33-19-00N 44-13-00E	IQ 427-19	SA-2, see remarks			This site consists of a paved square perimeter road and 7 paved aprons--6 for the launch positions and one for the guidance area. On the most recent photography available, the site had been dismantled, and the equipment was parked nearby, in a travel position.

25X

25X1

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25X1

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25X

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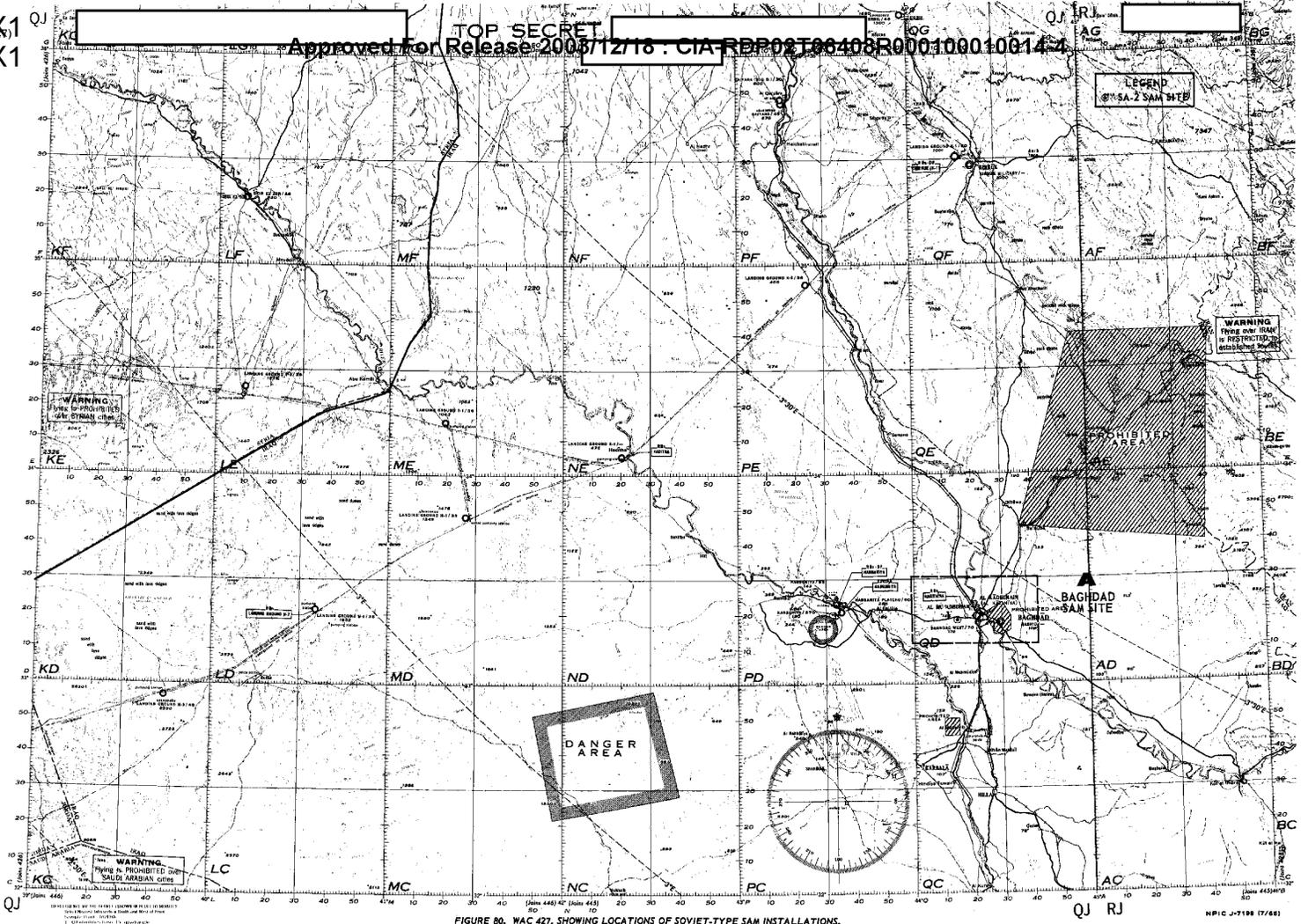
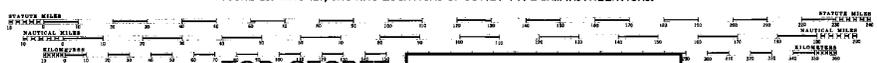


FIGURE 80. WAC 427, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.



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TIGRIS RIVER (427)
DRAWN: IRAQ - JORDAN - SOUTH ARABIAN STATES

25X
25X

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Table 78. SAM Installations on WAC 447

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks			
A Al Iskandariyah (Egypt) SAM Defenses (in defense of Al Iskandariyah, second largest city in Egypt; contains numerous military installations, including the naval base which serves as headquarters for the Egyptian Navy; shipyard, port facilities, industrial installations, and POL storage areas)										
1	Al Iskandariyah SAM Site B05-2, [redacted]	31-18-40N 30-08-30E	EG 0447-1	SA-2, configuration undetermined	[redacted]					
2	Al Iskandariyah SAM Support Facility, [redacted]	31-18-40N 30-08-35E	EG 0447-1	Type II (square)	[redacted]					
B Cairo (Egypt) SAM Defenses (in defense of Cairo, the capital city of Egypt, large complex containing military and industrial installations, several large airfields, POL refining and storage facilities, and rail facilities)										
3	Cairo SAM Site C27-2, [redacted]	30-02-50N 30-50-05E	EG 0447-11	SA-2, link	[redacted]	[redacted]	This facility consists of 2 SA-2 sites of undetermined configuration, and one probable SA-2 site.			
4	Cairo SAM Site Alt B27-2	30-02-45N 30-52-20E	EG 0447-11	SA-2, configuration undetermined						
5	Cairo SAM Site Alt B27-2	30-02-00N 30-52-50E	EG 0447-11	SA-2, configuration undetermined						
6	Cairo SAM Site B21-2, [redacted]	30-01-50N 30-53-20E	EG 0447-11	SA-2, link						
7	Dahshur SAM Training Facility, [redacted]	29-48-15N 31-06-00E	EG 0447-11, 12	See remarks						
8	Cairo SAM Site B21-2, [redacted]	29-48-00N 31-09-00E	EG 0447-11	SA-2, link						
9	Cairo SAM Site Alt B21-2	29-48-00N 31-09-10E	EG 0447-11	SA-2, configuration undetermined						
10	Cairo SAM Site Alt B21-2	29-47-40N 31-09-00E	EG 0447-11	SA-2, configuration undetermined						
11	Cairo SAM Site B17-2, [redacted]	29-45-00N 31-21-00E	EG 0447-12	SA-2, link						
12	Cairo Alternate SAM Site	29-44-10N 31-21-35E	EG 0447-12	SA-2, configuration undetermined						
13	Cairo Alternate SAM Site	29-44-05N 31-22-10E	EG 0447-12	SA-2, configuration undetermined						
14	Cairo SAM Support Facility, [redacted]	30-04-10N 31-22-30E	EG 0447-12	Type II (square)						
15	Cairo SAM Site E09-2, [redacted]	30-04-25N 31-31-45E	EG 0447-12	SA-2, configuration undetermined						
16	Cairo SAM Site B09A-2, [redacted]	30-05-15N 31-36-20E	EG 0447-12	SA-2, configuration undetermined						
17	Cairo SAM Site B04-2, [redacted]	30-20-50N 31-28-40E	EG 0447-12	SA-2, link						
18	Cairo SAM Site B33-2, [redacted]	30-17-25N 31-07-10E	EG 0447-12	SA-2, link						
C As Suways (Egypt) SAM Defenses (in defense of the Suez Canal and As Suways; a large complex containing port facilities, shipyards, POL refineries and storage, a naval base, and several military installations)										
19	As Suways SAM Site B22-2, [redacted]	29-43-20N 32-20-45E	EG 0447-12	SA-2, configuration undetermined				[redacted]		
20	As Suways SAM Support Facility, [redacted]	29-59-55N 32-31-30E	EG 0447-13	Type II (square)	[redacted]					
21	As Suways SAM Site B15-2, [redacted]	29-48-10N 32-42-30E	EG 0447-13	SA-2, link	[redacted]					

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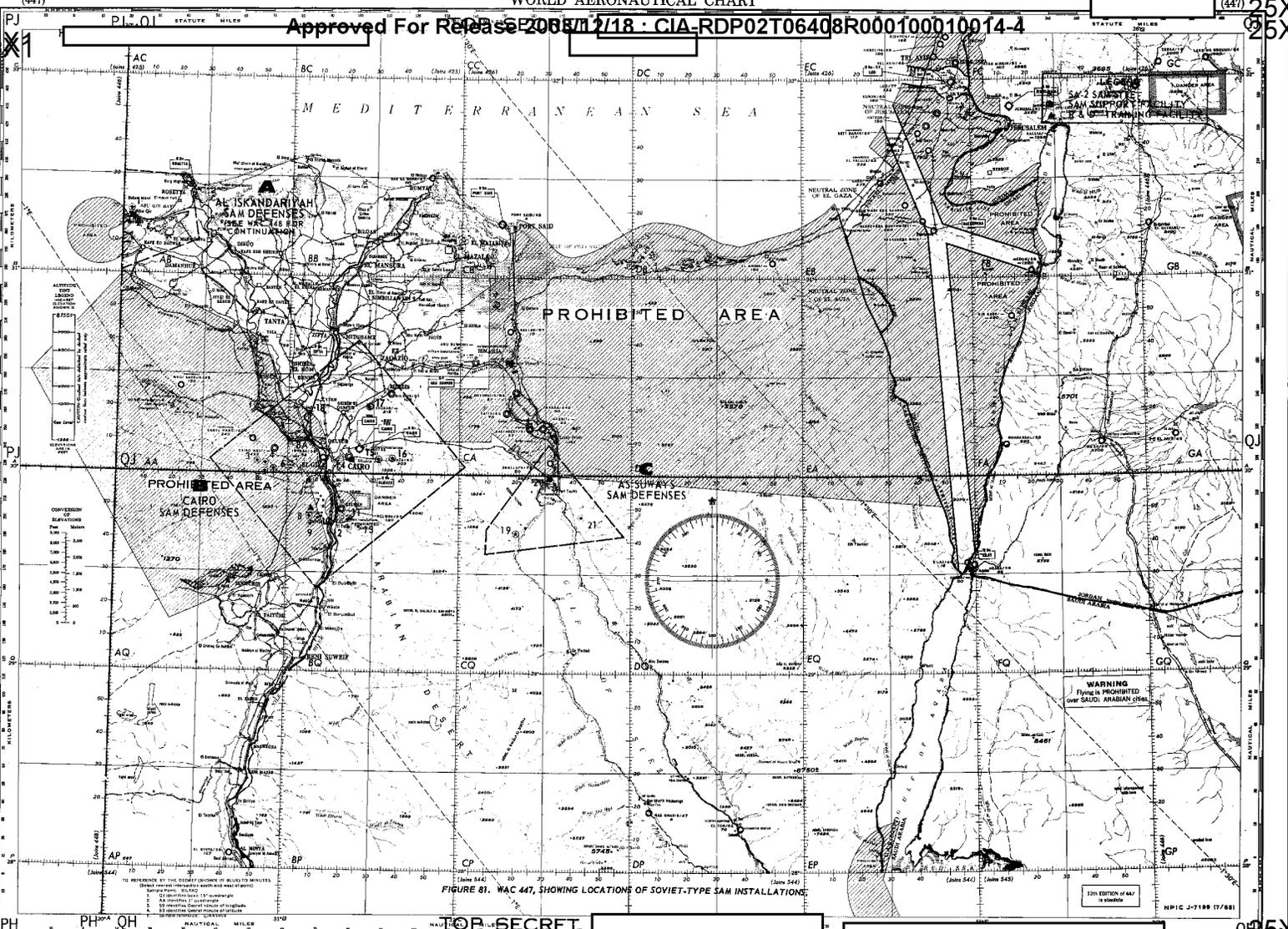


FIGURE 81. WAC 447, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS

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SUEZ CANAL (447)

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IRAN, JORDAN, SAUDI ARABIA, UNITED ARAB EMIRATES

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Table 79. SAM Installations on WAC 448

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
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▲ Al Iskandariyah (Egypt) SAM Defenses (in defense of Al Iskandariyah, second largest city in Egypt; contains numerous military installations, including the naval base which serves as headquarters for the Egyptian Navy; shipyard, port facilities, industrial installations and POL storage areas)

1	Al Iskandariyah SAM Site B24-2 [Redacted]	31-05-10N 29-43-20E	EG 0448-10	SA-2, probable fan	[Redacted]		
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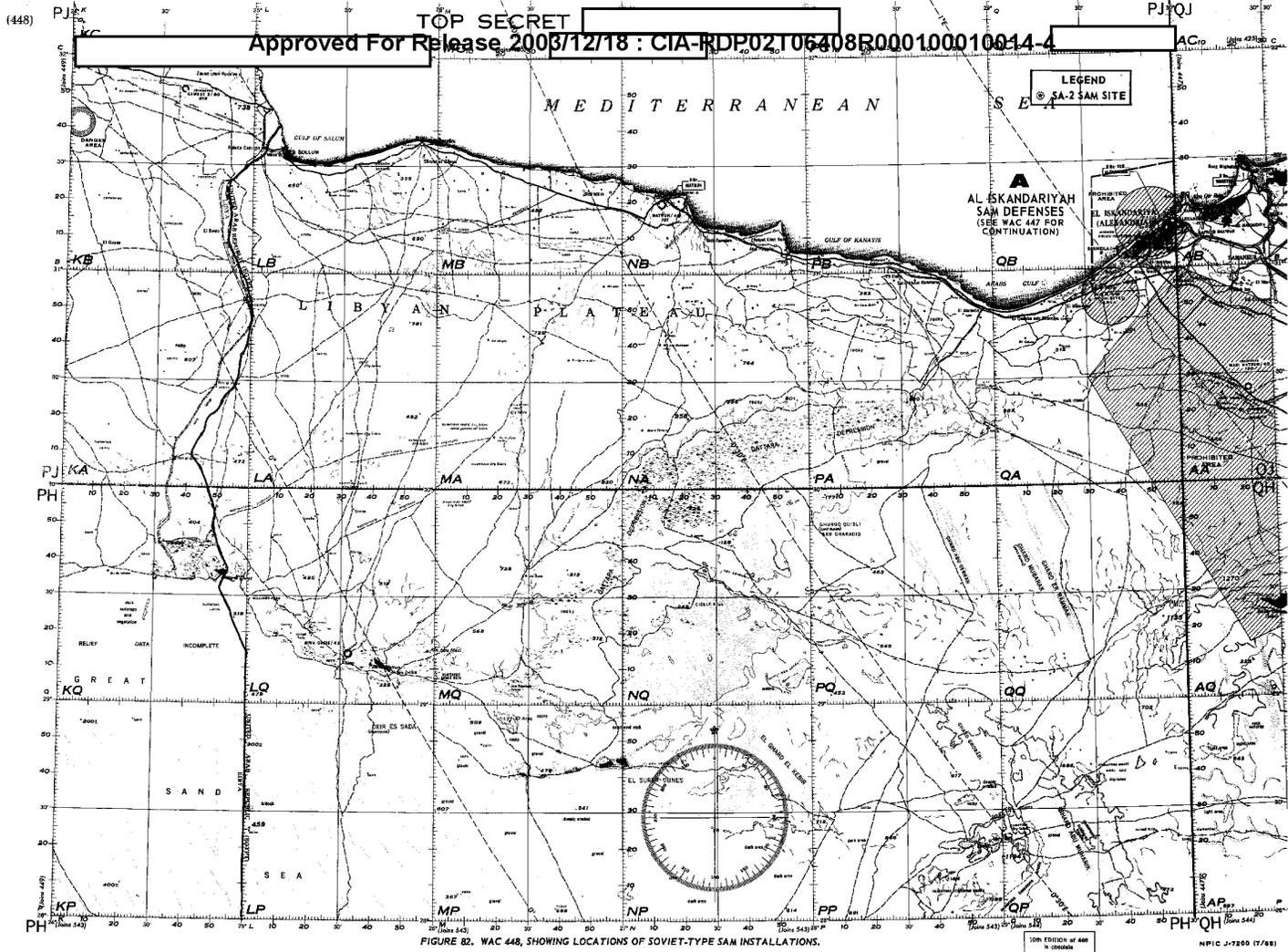
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LIBYAN PLATEAU (448)
LIBYA-UNITED ARAB REPUBLIC

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Table 80. SAM Installations on WAC 585

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears†	Mission & Date Installation Negated†	Remarks
▲ Cuban SAM Defenses (with the exception of the Havana and Santa Clara areas, the SAM sites in Cuba cannot easily be grouped into defense complexes. The original SAM deployment in Cuba constituted a well-defined perimeter defense of the complete island. More recently, the deployment pattern has been changed, and now the general rule seems to be the defense of critical targets by a single site. Most of the abandoned sites in Cuba can be attributed to this change in emphasis).							
1	Victoria de las Tunas SAM Assembly Area, [redacted]	21-04-40N 77-00-00W	CU 0585-16	See remarks			This is not a standard SAM support facility. It consists of equipment stacked in the open, and several buildings randomly arranged. This site has been abandoned.
2	Chapurra SAM Site [redacted]	21-07-20N 76-26-20W	CU 0585-16	SA-2, star			
3	Holguin SAM Site B27-2, [redacted]	20-52-32N 76-27-20W	CU 0585-16	SA-2, link			This site is in defense of Holguin Airfield and several military installations in the area.
4	Los Angeles SAM Site A06-2, [redacted]	21-00-40N 75-41-43W	CU 0585-18	SA-2, probable star			This site is probably in defense of the Banes Naval Installation, Hq Eastern Naval District and the Banes Cruise-Missile Installation.
5	Preston SAM Site A17-2 [redacted]	20-44-17N 75-38-55W	CU 0585-22	SA-2, star			This site may be in defense of the copper and zinc complex at Nicaro.
6	Manzanillo SAM Site [redacted]	20-18-07N 75-25-05W	CU 0585-22	SA-2, configuration			This site is no longer considered a SAM target.
7	Orgullo SAM Site [redacted]	20-24-00N 74-28-00W	CU 0585-24	SA-2, configuration			This site is no longer considered a SAM target.
8	Santiago de Cuba SAM Assembly Area, [redacted]	20-03-10N 75-53-20W	CU 0585-21	See remarks			This is not a standard SAM support facility. It consists of equipment parked in the open around a random assortment of buildings.
9	Maldonado SAM Site A18-2, [redacted]	20-12-25N 75-28-45W	CU 0585-22	SA-2, star			This site is in defense of numerous military installations in the area. It is also quite close to the U.S. Naval Base at Guantanamo Bay.
10	Palmar SAM Site [redacted]	20-06-00N 75-20-15W	CU 0585-22	SA-2, configuration			This site is no longer considered a SAM target.

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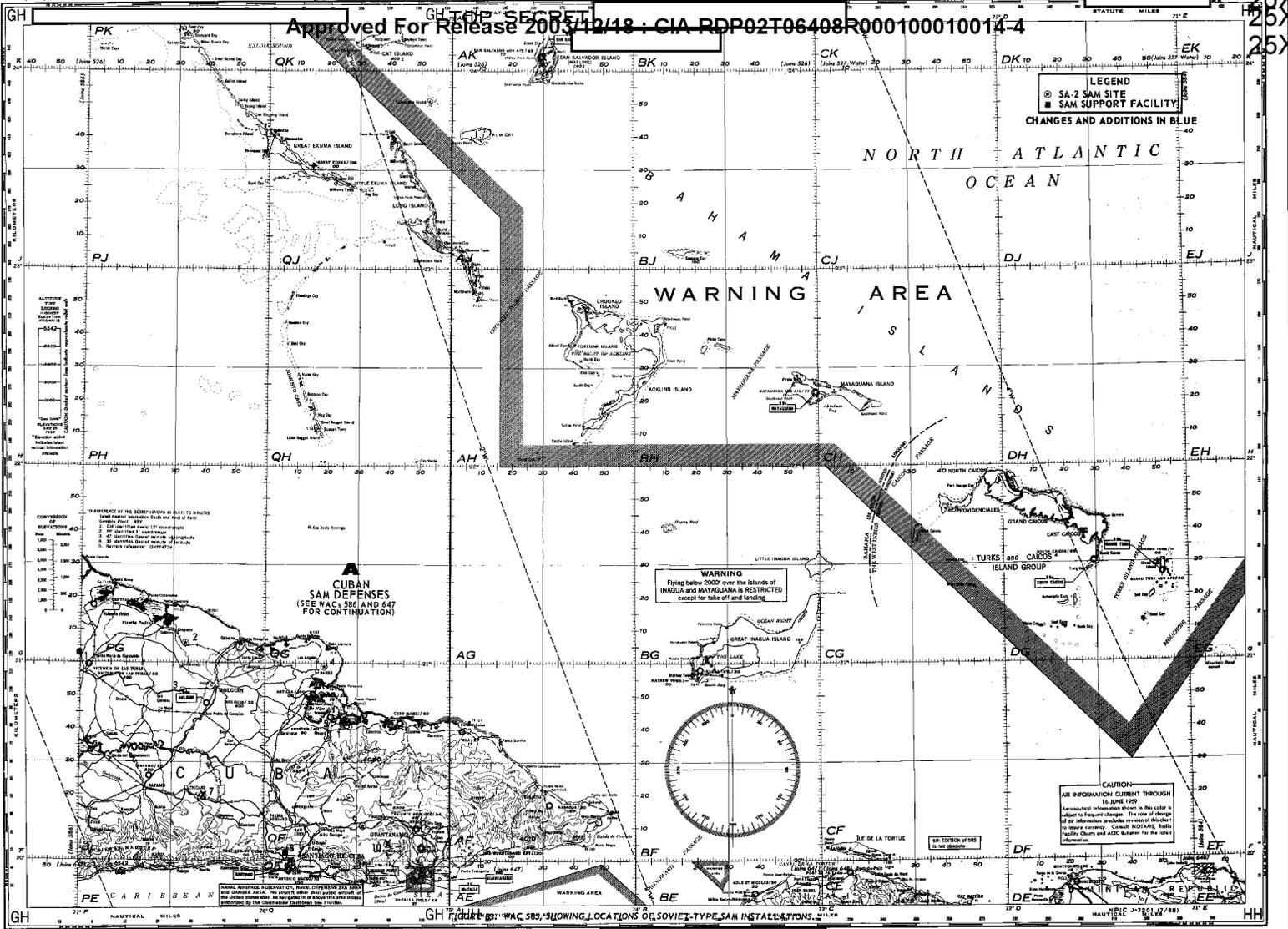
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GREAT INAGUA ISLAND (585)

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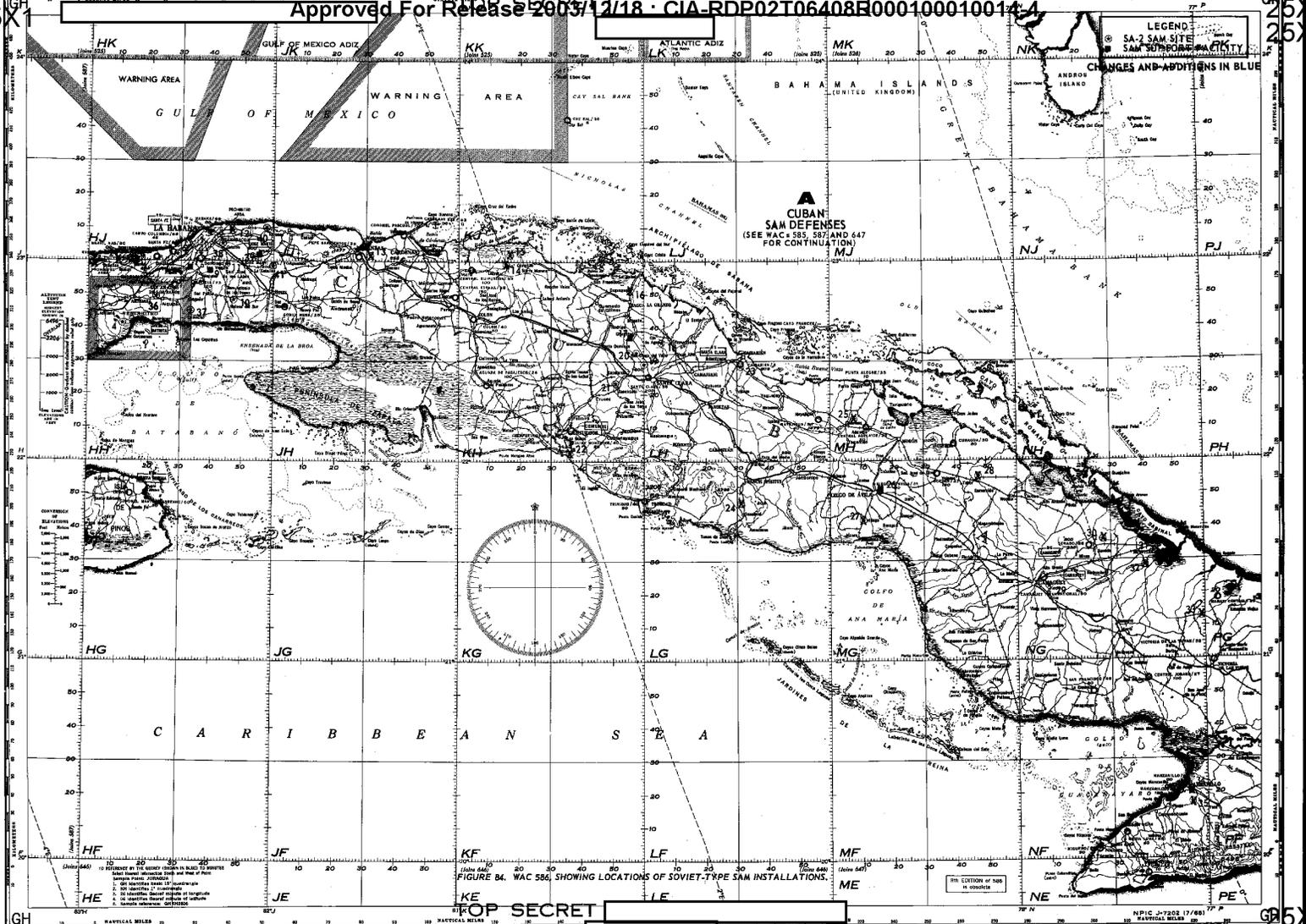


FIGURE 84. WAC 586, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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GULF OF GUACANAYABO (586)

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Table 81. SAM Installations on WAC 586 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
25X1	[Redacted]	21-51-50N 76-14-05W	CU 0586-14	SA-2, configuration undetermined			This was not a standard SAM support facility. It consisted of equipment parked in the open. Immediately adjacent to Manatillo SAM Site. This was immediately abandoned. This facility is no longer considered a SAM target.
25X1	[Redacted]	21-42-18N 76-52-31W	CU 0586-14	SA-2, configuration undetermined			This site has been abandoned. This site is no longer considered a SAM target.
25X1	[Redacted]	21-52-16N 76-52-16W	CU 0586-14	SA-2, configuration undetermined			This site has been abandoned. This site is no longer considered a SAM target.
25X1	Camaguey SAM Site A10-2	21-22-55N 77-50-10W	CU 0586-20	SA-2, configuration undetermined			This site is in defense of Camaguey Airfield and several military installations in the area. This site has been abandoned. This site is no longer considered a SAM target.
25X1	[Redacted]	21-02-00N 77-50-04W	CU 0586-15	SA-2, configuration undetermined			This site has been abandoned. This site is no longer considered a SAM target.
25X1	Nuevitas SAM Site 2,	21-32-50N 77-17-48W	CU 0586-20	SA-2, configuration undetermined			This site is in defense of the Nuevitas port facilities and military installations in the Camaguey area. This site has been abandoned. This site is no longer considered a SAM target.
25X1	[Redacted]	21-30-16N 77-20-15W	CU 0586-20	SA-2, configuration undetermined			This site has been abandoned. This site is no longer considered a SAM target.
25X1	[Redacted]	21-19-16N 77-23-15W	CU 0586-20	SA-2, configuration undetermined			This site has been abandoned. This site is no longer considered a SAM target.
25X1	[Redacted]	20-10-15N 77-05-05W	CU 0586-07	SA-2, configuration undetermined			This was not a standard SAM support facility. It consisted of equipment parked in the open. Immediately adjacent to Manatillo SAM Site. This was immediately abandoned. This facility is no longer considered a SAM target.
25X1	[Redacted]	20-10-20N 77-02-08W	CU 0586-05	SA-2, configuration undetermined			This site has been abandoned. This site is no longer considered a SAM target.
25X1	Alquizar SAM Site A30-2	22-49-26N 82-38-36W	CU 0586-6	SA-2, possible link			
25X1	La Cachimba SAM Site A12-2	22-45-06N 82-27-18W	CU 0586-6	SA-2, probable link			
25X1	Guanabacoa SAM Site A14-2,	23-05-36N 82-16-02W	CU 0586-6	SA-2, configuration undetermined			
25X1	Tapaste SAM Assembly Area	23-01-42N 82-04-56W	CU 0586-6	See remarks			This is not a standard SAM support facility. It consists of several buildings and SAM-type equipment which is stored in the open.
25X1	Campo Florido SAM Site A07-2,	23-09-16N 82-02-14W	CU 0586-6	SA-2, star			
25X1	La Catalina SAM Site A34-2	22-58-17N 82-00-07W	CU 0586-6	SA-2, star			

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Table 82. SAM Installations on WAC 587

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
<p>▲ Cuban SAM Defenses (with the exception of the Havana and Santa Clara areas, the SAM sites in Cuba cannot easily be grouped into defense complexes. The original SAM deployment in Cuba constituted a well-defined perimeter defense of the complete island. More recently, the deployment pattern has been changed, and now the general rule seems to be the defense of critical targets by a single site. Most of the abandoned sites in Cuba can be attributed to this change in emphasis).</p>							
1	Santa Lucia SAM Site	22 14 50N 82 52 43W	CY 0582 40	SA-2, SA-3, SA-4	1962		This site has been abandoned. This site is no longer considered a SAM target.
2	Santa Lucia-Northern SAM Site	22 16 40N 82 42 50W	CY 0582 40	SA-2, SA-3, SA-4	1962		This site has been abandoned. This site is no longer considered a SAM target.
3	Santa Lucia-Southern SAM Site	22 16 05N 82 47 00W	CY 0582 40	SA-2, SA-3, SA-4	1962		This site has been abandoned. This site is no longer considered a SAM target.
4	San Juan del Rio SAM Assembly Area	22 36 00N 82 32 43W	CY 0582 40	SA-2, SA-3, SA-4	1962		This is not a SAM support facility, but consists of several SAM support equipment located in the open. This facility is no longer considered a SAM target.
5	La Coloma SAM Site	22 18 27N 82 34 50W	CY 0582 40	SA-2, SA-3, SA-4	1962		This site is possibly a former of Santa Lucia-Northern. This site is no longer considered a SAM target.
6	La Coloma SAM Site	22 18 40N 82 32 25W	CY 0582 40	SA-2, SA-3, SA-4	1962		This site has been abandoned. This site is no longer considered a SAM target.
7	San Juan del Rio SAM Site	22 36 00N 82 32 43W	CY 0582 40	SA-2, SA-3, SA-4	1962		This site has been abandoned. This site is no longer considered a SAM target.

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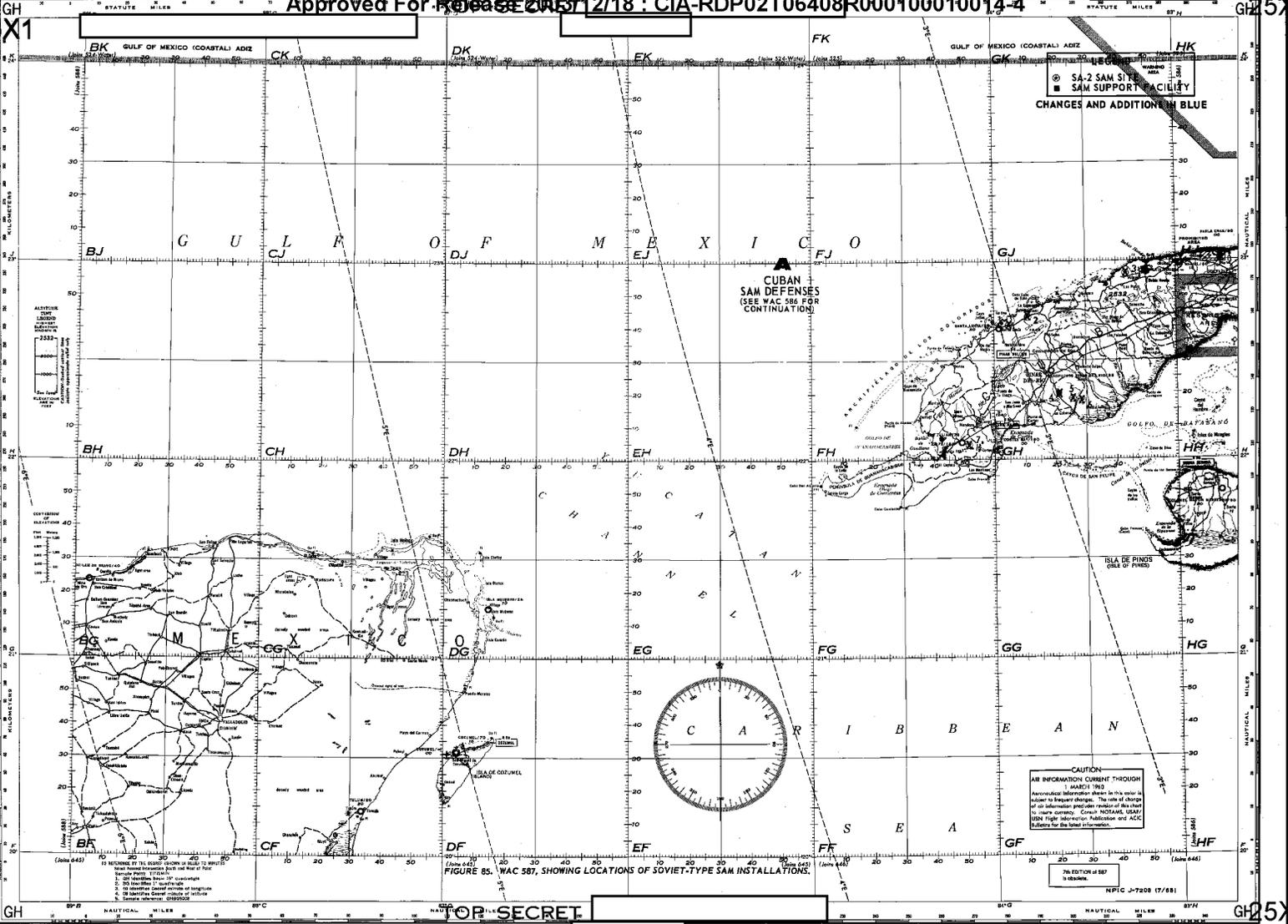
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Table 83. SAM Installations on WAC 647

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
<p>A Cuban SAM Defenses (with the exception of the Havana and Santa Clara areas, the SAM sites in Cuba cannot easily be grouped into defense complexes. The original SAM deployment in Cuba constituted a well-defined perimeter defense of the complete island. More recently, the deployment pattern has been changed, and now the general rule seems to be the defense of critical targets by a single site. Most of the abandoned sites in Cuba can be attributed to this change in emphasis)</p>							
1	Santiago de Cuba SAM Site A28-2, [redacted]	19-59-20N 75-50-58W	CU 0647-3	SA-2, link	[redacted]		This site is in defense of Santiago de Cuba: port facilities, naval base, POL refineries and storage, and several military installations.

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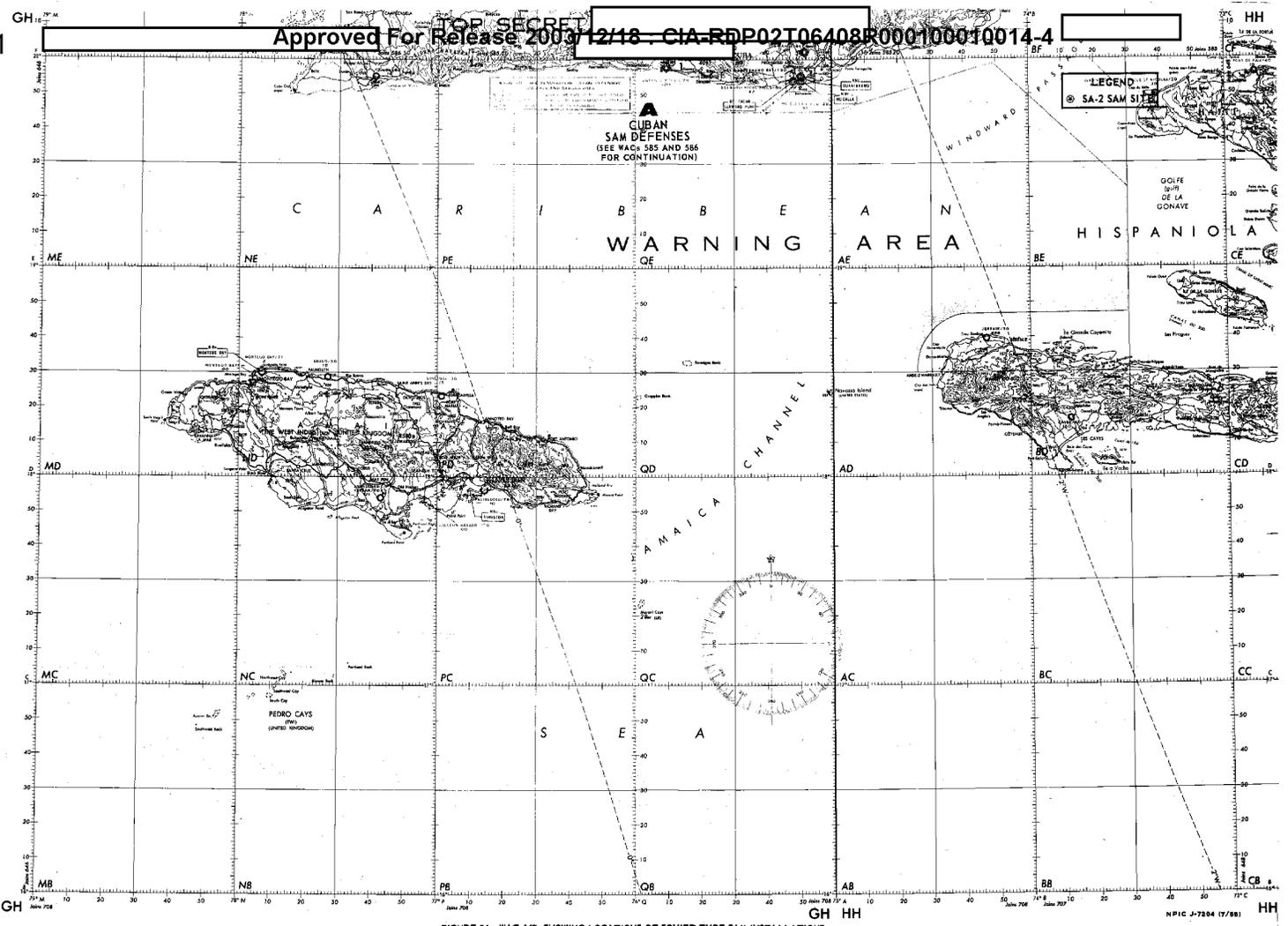
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Table 84. SAM Installations on WAC 982

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears†	Mission & Date Installation Negated†	Remarks
A Djakarta (Indonesia) SAM Defenses (in defense of Djakarta, capital and largest city of Indonesia, and of the port city of Tanjungpriok)							
1	Djakarta SAM Site Kampung Melaju B29-2, [redacted]	06-08-20S 106-36-10E	ID AMS:T503 Sheet SB 48-12	SA-2, link	[redacted]		
2	Djakarta SAM Site Tjilintjing A06-2, [redacted]	06-05-45S 106-56-40E	ID AMS:T503 Sheet SB 48-12	SA-2, configuration undetermined			
3	Djakarta SAM Site Tjilodong B17-2, [redacted]	06-25-55S 106-50-10E	ID AMS:T503 Sheet SB 48-12	SA-2, link			
B Kalidjati SAM Training Area (This site probably has no operational function; it appears to serve a training function only)							
4	Kalidjati Missile Training Center, [redacted]	06-32-52S 107-39-33E	ID AMS:T503 Sheet SB 48-12	SA-2, undetermined			

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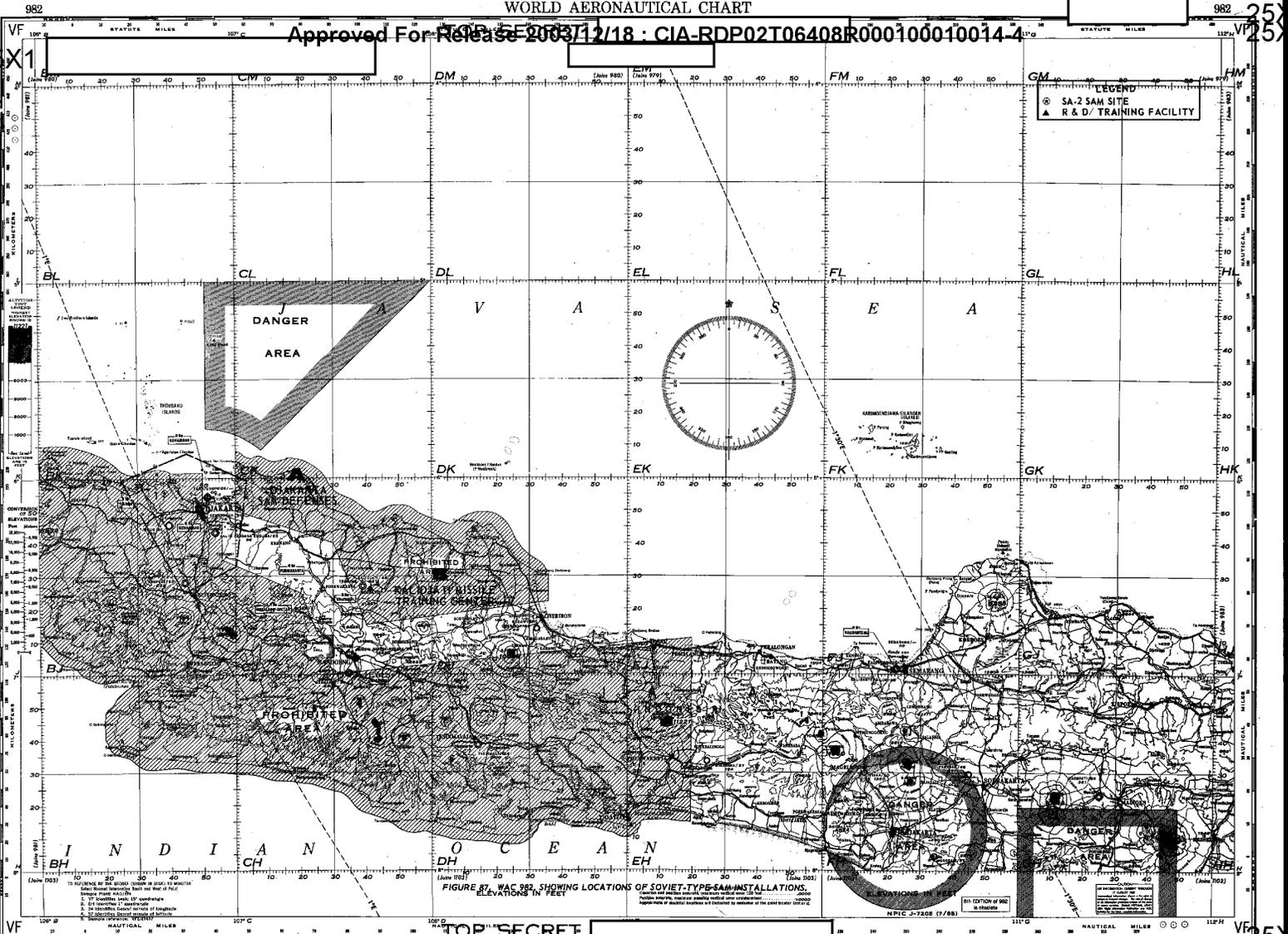


FIGURE 87. WAC 982 SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS, ELEVATIONS IN FEET

NPIC J-7208 (7/88)

8th EDITION of 982
14 AUGUST 1988

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SLAMET MOUNTAIN 982

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ADDENDUM

A listing by WACs of additions and changes to the installations above

WAC	Country	Installation Name and Designator	BE Number	Coordinates	Remarks
48	USSR	Norilsk SAM Support Facility		69-21-50N 88-11-00E	
48	USSR	Norilsk SAM Site B10-2		69-18-30N 88-42-35E	
48	USSR	Norilsk SAM Site B35-2		69-33-37N 88-01-01E	
50	USSR	Belushya Guba SAM Site A32-2		71-37-45N 52-00-00E	
50	USSR	Belushya Guba SA-2 SAM Site		71-28-00N 52-26-40E	
51	USSR	Murmansk Possible SAM Site B11-3		68-53-20N 33-41-25E	
51	USSR	Olenegorsk SAM Site C11-3		68-03-30N 34-13-30E	
51	USSR	Pechenga SAM Support Facility 2, Type IA		69-42-30N 33-02-30E	See page 6, item 32. This support facility has been reclassified from Type I to Type IA. It is collocated with Pechenga SAM Site D08-2.
91	USSR	Kandalaksha SAM Site B26-2		67-07-30N 31-49-40E	
91	USSR	Bolomorsk SAM Site B25-2		64-26-05N 34-24-25E	See page 12, item 1. This site was deleted on the basis of photography of [redacted]
92	USSR	Iokanga SAM Site A26-2		67-59-30N 39-32-30E	
102	USSR	Plesetsk ICBM Complex SAM Site A08-3		62-57-50N 40-51-30E	See page 16, item 23. The name of this site is changed, and the designator and BE number are added.
108	USSR	Sortavala Possible SA-2 SAM Site		61-42-10N 30-38-20E	
108	USSR	Leningrad SAM Site C02A-2		60-21-35N 30-33-00E	
127	USSR	Bratsk SAM Site C03A-2		56-24-40N 102-06-30E	See page 20, item 7. This site was deleted as an SA-2 site on the basis of photography [redacted]
153	USSR	Kurossaare SAM Site B02-2		58-35-25N 22-35-30E	
153	USSR	Leningrad SAM Site C27A-2		59-32-45N 30-31-15E	
153	USSR	Leningrad SAM Site D24-2		59-37-40N 29-30-30E	
153	USSR	Leningrad SA-2 SAM Site		59-32-15N 29-34-40E	This is a probable training facility.
153	USSR	Moloskovitsy MRBM Complex SAM Support Facility, Type IA		59-32-10N 28-47-55E	See page 26, item 16. This support facility has been reclassified from Type II to Type IA. It is collocated with Moloskovitsy MRBM Complex SAM Site B29-2.
153	USSR	Moloskovitsy MRBM Complex SAM Support Facility, Type IA		59-23-10N 28-59-50E	This Type IA SAM support facility is collocated with Moloskovitsy SAM Site A32-2 (page 26, item 17).
154	USSR	Kalinin SAM Site B25-3		55-45-10N 35-34-07E	
156	USSR	Kasli SAM Site B04-2		56-06-20N 60-59-10E	
161	USSR	Leninsk-Kuznetckiy SAM Site A10-2		54-38-55N 86-19-00E	
161	USSR	Biysk SA-2 SAM Site		52-27-50N 84-53-00E	
162	USSR	Barnaul SAM Site B20A-2		53-10-50N 88-41-58E	See page 52, item 9. This site was deleted as an SA-2 site on the basis of photography [redacted]
165	USSR	Sterlitamak SAM Site E17-2		52-58-20N 56-18-00E	
168	USSR	Sialiai SAM Site A27-2		55-55-28N 23-06-50E	

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WAC	Country	Installation Name and Designator	BE Number	Coordinates	Remarks
200	USSR	Ulan-Ude SAM Site C01-2		52-09-52N 107-39-00E	
204	USSR	Khabarovsk SAM Site B18-2		48-12-10N 135-11-10E	
204	USSR	Khabarovsk SAM Site A01-2		48-33-50N 135-09-25E	
204	USSR	Komsomolsk SAM Site B13A-2		50-24-00N 137-26-50E	See page 100, item 17. This site was deleted as an SA-2 site on the basis of photography
205	USSR	Smirnykh SAM Site A31-2		49-44-50N 142-49-10E	
281	Czechoslovakia	Chomutov SAM Site A31-2		50-31-00N 13-16-20E	
281	Czechoslovakia	Pizen SAM Site B30-2		49-51-10N 13-05-10E	
281	Czechoslovakia	Pizen SAM Support Facility, Type I		49-57-30N 13-26-55E	
283	USSR	Usovo MRBM Complex SAM Site B30-2		51-24-00N 27-51-50E	
284	USSR	Morozovsk SAM Site C25-2		48-08-50N 41-15-00E	
284	USSR	Zaporozhye SAM Site B34-2		46-08-03N 34-58-29E	
286	USSR	Orenburg Possible SAM Support Facility		51-59-20N 55-19-40E	
248	USSR	Astrakhan SAM Site B23-2		46-11-10N 47-47-47E	
248	USSR	Sasyktau Missile-Launch Facility		47-32-00N 49-26-00E	This is an unidentified-type, remote missile-launch facility. Its configuration resembles a portion of an SA-1 launch site. See NPIC/ [redacted] Sasyktau Missile-Launch Facility, USSR, Jun 65 (TOP SECRET [redacted])
249	USSR	Korenovsk SAM Site B36-2		45-40-00N 39-26-00E	
249	USSR	Kropotkin SAM Site B32-2		45-38-11N 40-14-22E	
249	USSR	Armavir SAM Site C18-2		44-32-50N 41-12-25E	
249	USSR	Armavir SAM Site D23-2		44-36-16N 40-38-21E	
249	USSR	Kamensk-Shakhtinskiy SAM Site D14-2		47-48-10N 40-41-05E	
250	USSR	Balta MRBM Complex SAM Site A17-2		47-56-50N 29-36-30E	See page 142, item 5. This site was deleted on the basis of photography of [redacted]
250	USSR	Odesa SAM Site D08-2		46-39-20N 31-34-10E	
250	USSR	Odesa SAM Site D06-2		46-48-40N 31-22-10E	
280	USSR	Burevestnik SAM Site A27-2		44-55-20N 147-34-40E	
281	USSR	Yuzhno-Sakhalinsk SAM Site B01-2		47-05-20N 142-44-40E	
281	USSR	Yuzhno-Sakhalinsk Probable SA-2 SAM Site		47-14-56N 142-41-05E	
282	USSR	Barano-Orenburgskoye MRBM Complex SA-2 SAM Site		44-13-35N 131-43-15E	
287	China	Shuang-cheng-tzu Missile Test Center Possible SA-2 SAM Site		40-44-30N 100-03-00E	

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WAC	Country	Installation Name and Designator	BE Number	Coordinates	Remarks
288	China	Pao-tou SAM Site C12-2		40-22-10N 110-20-50E	
288	China	Pao-tou SAM Site E10-2		40-25-30N 110-59-00E	
288	China	Pao-tou SAM Site A02-2		40-45-20N 110-04-30E	
322	Albania	Tirane SA-2 SAM Site		41-12-30N 19-45-30E	
325	USSR	Baku SAM Site A13-2		40-18-50N 49-59-55E	
325	USSR	Baku SAM Site A15-2		40-17-50N 49-56-10E	
325	USSR	Tsiteli Tskaro SAM Support Facility, Type IA		41-26-55N 46-02-45E	This type IA support facility is collocated with Tsiteli Tskaro SAM Site A25-2 (page 170, item 22).
325	USSR	Baku SA-3 SAM Site		40-17-30N 50-21-30E	
325	USSR	Baku SA-2 SAM Site		40-22-00N 49-33-30E	
336	USSR	Kulyab SAM Site A06-2		37-55-20N 69-47-45E	Site is adjacent to a barracks area and is a probable training facility.
338	USSR	Nebit Dag SAM Site D22-2		39-57-28N 53-50-41E	
383	China	Lan-chou SAM Site B29-2		36-08-32N 103-23-30E	
440	India	Chandigarh SA-2 SAM Site		30-24-40N 76-26-00E	
440	India	Chandigarh SAM Site A01-2		30-48-15N 76-44-50E	
440	India	Chandigarh SAM Site A11-2		30-24-15N 76-54-30E	
440	India	Chandigarh SAM Site C16-2		30-16-45N 77-00-35E	
440	India	Chandigarh SAM Support Facility		30-40-00N 76-49-30E	
447	Egypt	Bur Said SAM Site A13-2		31-14-00N 32-19-00E	
447	Egypt	Bur Said SAM Site A30-2		31-16-35N 32-14-20E	
447	Egypt	Al Ismailiyah SAM Site B09-2		30-28-30N 32-30-20E	
447	Egypt	Al Ismailiyah SAM Site B19-2		30-28-20N 32-15-30E	
447	Egypt	Al Ismailiyah SAM Site B01-2		30-46-20N 32-18-00E	
447	Egypt	As Suways SAM Site C01-2		30-19-40N 32-33-00E	
447	Egypt	As Suways SAM Site A34-2		30-00-20N 32-31-50E	
447	Egypt	As Suways SAM Site B06-2		30-04-10N 32-44-20E	
447	Egypt	As Suways SAM Site B35-2		30-11-40N 32-28-10E	
544	Egypt	Aswan SAM Site B07-2		24-10-46N 33-05-15E	
544	Egypt	Aswan SAM Site B33-2		24-15-00N 32-46-30E	
544	Egypt	Aswan SAM Support Facility		24-03-36N 32-53-10E	
586	Cuba	El Cano Probable SAM Training Area		23-03-27N 82-29-00W	
615	China	Chan-chiang Possible SA-2 SAM Site		21-28-50N 110-11-35E	
616	Viet Nam	Hanoi SAM Site A29-2		21-04-20N 105-41-00E	
616	Viet Nam	Hanoi SAM Site B12-2		20-56-54N 106-04-09E	
616	Viet Nam	Hanoi SAM Site B17-2		20-47-00N 105-54-38E	
616	Viet Nam	Hanoi SAM Site B21-2		20-51-54N 105-45-18E	
982	Indonesia	Djakarta SAM Site B11-2		06-15-30S 107-01-40E	
982	Indonesia	Djakarta SAM Site, Pakulonan, B25-2		06-14-50S 106-39-00E	
982	Indonesia	Djakarta SAM Support Facility		06-17-43S 106-54-51E	

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3. CIA. PIR-7/64, *Soviet-Type SAM Installations, WACs 154, 155, 156, 158, and 159*, Mar 64 (TOP SECRET [Redacted])
4. CIA. PIR-8/64, *Soviet-Type SAM Installations, WACs 160, 161, 162, 163, 164, 165, and 166*, Mar 64 (TOP SECRET [Redacted])
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