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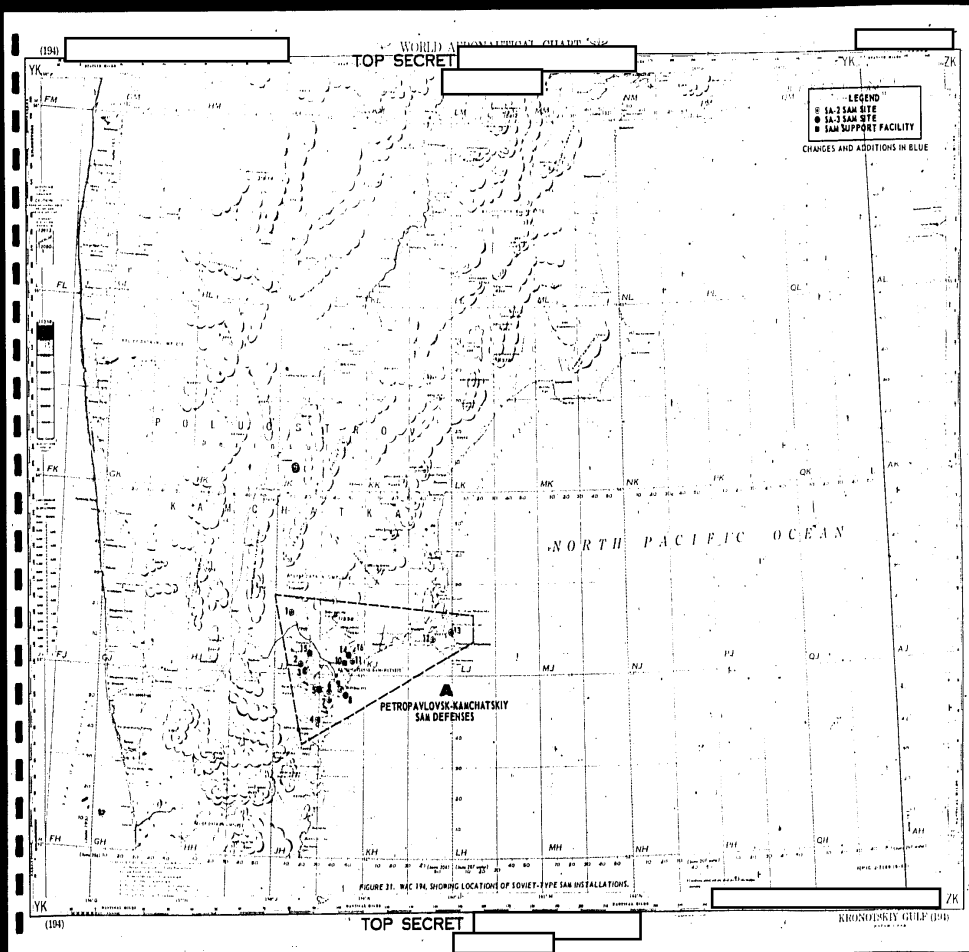
Table 28. SAM Installations on WAC IS1

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Missing & Date Installation Negated	Remarks
A Petropavlovsk-Kamchatskiy SAM Defenses (in defense of major submarine base, ship repair yards, government and military control headquarters)							
1	Petropavlovsk-Kamchatskiy SAM Site C22-2, [redacted] 25X1	53-20-00N 158-10-40E	UR 0104-17	SA-2, configuration undetermined			25X1 This unvetted site is collocated with Petropavlovsk SAM Site-B28-2. It was previously carried as a Category 2, SA-2 SAM Site.
2	Petropavlovsk-Kamchatskiy SAM Site B28A-2, [redacted] 25X1	53-02-40N 158-18-00E	UR 0104-17	SA-2, configuration undetermined			
3	Petropavlovsk-Kamchatskiy SAM Site B28-2, [redacted] 25X1	53-02-45N 158-18-20E	UR 0104-17	SA-2, star			
4	Petropavlovsk-Kamchatskiy SAM Site B21-2, [redacted] 25X1	52-45-28N 158-29-00E	UR 0104-22	SA-2, configuration undetermined			
5	Petropavlovsk-Kamchatskiy SAM Site [redacted] 25X1	52-55-15N 158-10-10E	UR 0104-17	SA-2, configuration undetermined			
6	Petropavlovsk-Kamchatskiy SAM Site A20-2, [redacted] 25X1	52-54-20N 158-07-40E	UR 0104-17	SA-2, probable link			
7	Petropavlovsk-Kamchatskiy SAM Site A20A-2, [redacted] 25X1	52-52-40N 158-07-00E	UR 0104-17	SA-2, link			
8	Petropavlovsk-Kamchatskiy SAM Site A18-3, [redacted] 25X1	52-55-40N 158-43-20E	UR 0104-17	SA-2, configuration undetermined			
9	Petropavlovsk-Kamchatskiy SAM Site A18-2, [redacted] 25X1	52-55-20N 158-43-20E	UR 0104-17	SA-2, star			
10	Petropavlovsk-Kamchatskiy SAM Support Facility [redacted] 25X1	53-04-00N 158-16-00E	UR 0104-17	Type 1 (rectangular)			
11	Petropavlovsk-Kamchatskiy SAM Site A06-2, [redacted] 25X1	53-05-45N 158-51-40E	UR 0104-17	SA-2, star			
12	Mys Shipovskiy SAM Site B31-2, [redacted]	53-12-45N 158-48-40E	UR 0104-18	SA-2, configuration undetermined			
13	Mys Shipovskiy SAM Site A28-2, [redacted]	53-14-35N 158-59-34E	UR 0104-18	SA-2, configuration undetermined			
14	Petropavlovsk-Kamchatskiy SAM Site A06-3, [redacted] 25X1	53-05-40N 158-51-20E	UR 0104-17	SA-2, configuration undetermined			
15	Petropavlovsk-Kamchatskiy SAM Site B30-1, [redacted] 25X1	53-08-25N 158-23-00E	UR 0104-17	SA-2, configuration undetermined			
16	Petropavlovsk-Kamchatskiy SAM Site B12-2, [redacted] 25X1	53-07-30N 158-24-00E	UR 0104-17	SA-2, configuration undetermined			

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Table 23. SAM Installations on JCRC

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-Sa-Amuro SAM Defense (in defense of Nikolayevsk-Sa-Amuro: major shipbuilding and repair center, and port facilities)</p>							
1	Nikolayevsk SAM Site A02-1	53-10-10N 140-44-43E	UR 0106-17	SA-2, link			25X1
2	Nikolayevsk SAM Support Facility	53-07-53N 140-52-13E	UR 0106-17	Type II (square)			
3	Nikolayevsk SAM Site B11-2	53-03-10N 141-14-00E	UR 0106-17	SA-2, link			
4	Nikolayevsk SAM Site C14-2	52-50-32N 141-13-30E	UR 0106-17	SA-2, link			
<p>B Defensive Role Undetermined 25X1</p>							
5	Oaha SAM Site A06-2	53-36-00N 143-02-00E	UR 0106-19	SA-2, link			

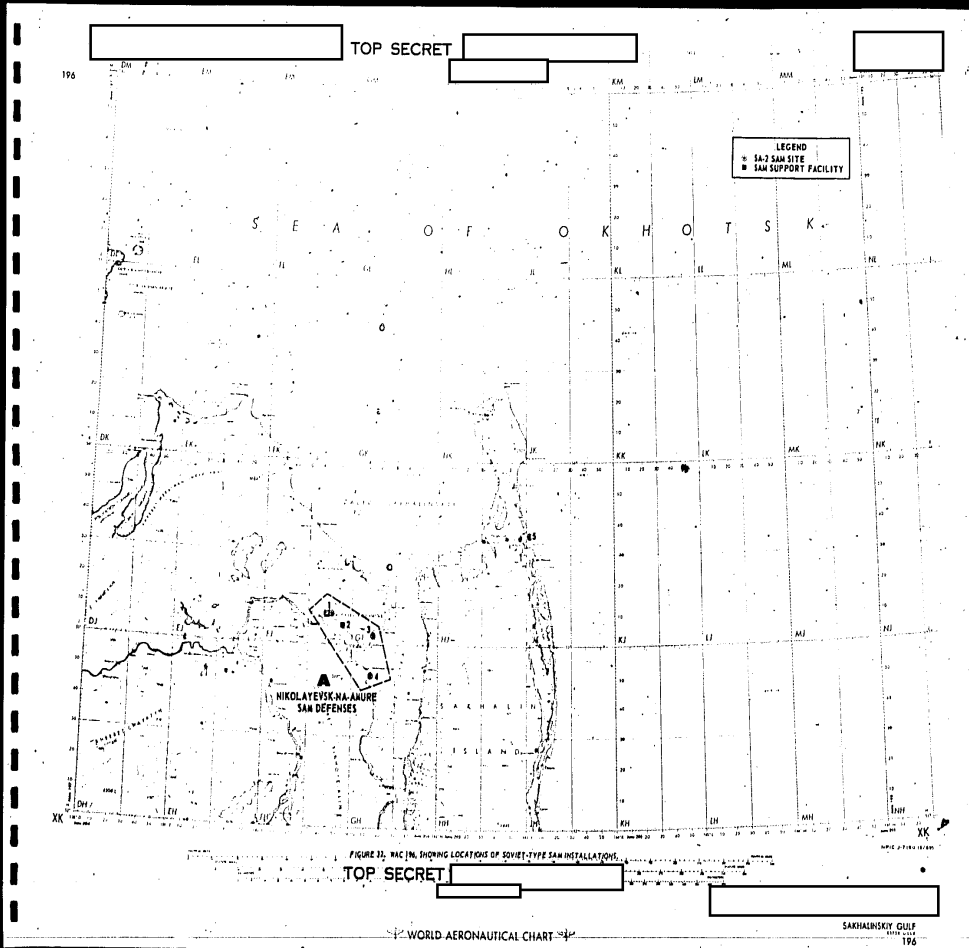
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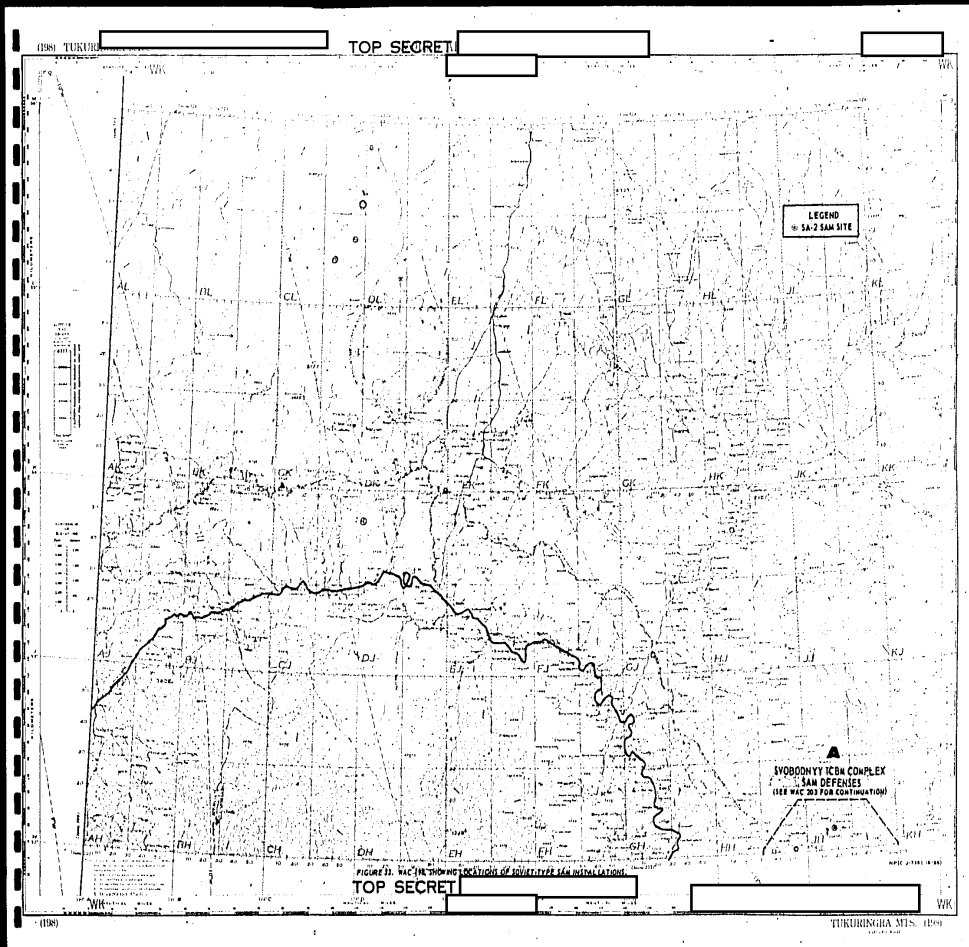
Table 35. SAM Installations on SAC 188

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appraised	Mission & Date Installation Negated	Remarks
▲ Evrobodyy ICBM Complex SAM Defenses (in defense of Evrobodyy ICBM Complex)							25X1
1	Evrobodyy ICBM Complex SAM Site B01-2	53-07-50N 128-17-00E	UR 0188-25	SA-2, configuration undetermined			25X1

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Table 31. SAM Installations on WAC 199

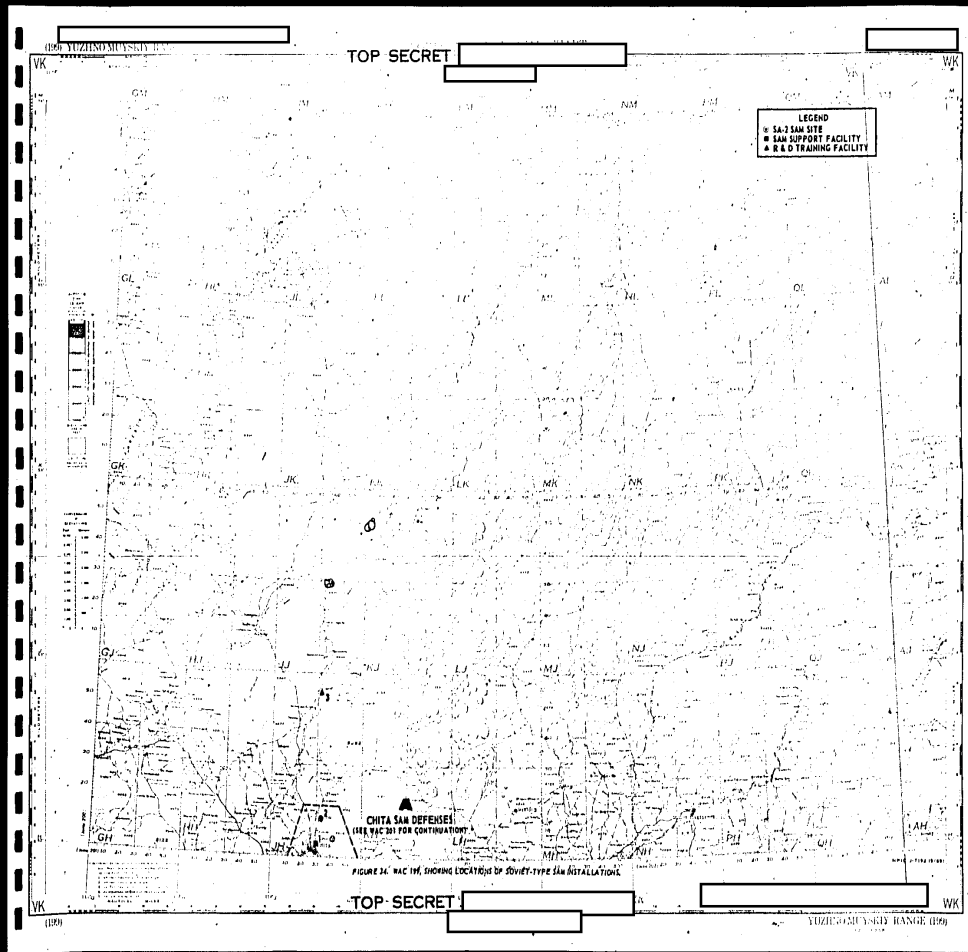
Item	Name, Site Designator, & DE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Requested	Remarks
A Chile SAM Defense (in defense of Chile: population center, government and military coastal center)							
1	Chile SAM Support Facility, [redacted]	33-04-18N 118-30-00E	UR 0189-23	Type II (square)			
2	Chile SAM Site B02-2, [redacted]	33-10-30N 118-32-40E	UR 0189-23	SA-2, link			
B Unidentified Surface-to-Air Type Missile Activity							
3	Antipinsky SAM-type Activity	32-45-00N 118-32-00E	UR AMS NS03, Sheet NN48-15, Edition 1-AMS	Unidentified, generally cir- cular			This unidentified activity actually began to appear at the time of [redacted] although the support 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 R & D facility.

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Table 22. SAM Installations on WAC 100

Item	Name, Site Designation, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A. Cherenkhovo SAM Defenses (in defense of Belaya Airfield--medium Jumbo base)							
1	Cherenkhovo SAM Site C10-2	53-07-15N 103-43-00E	UR 0200-14	SA-2, link			25X1
2	Cherenkhovo SAM Site B19-2	52-49-15N 103-07-30E	UR 0200-14	SA-2, link			
B. Jakarta/Angarak SAM Defenses (in defense of Jakarta: population center, government control center, air defense headquarters, and power facilities; and Angarak: gaseous diffusion plant, PUL, refineries, PUL storage, and power facilities)							
3	Angarak SAM Site B35-2	02-46-40N 103-51-00E	UR 0200-17	SA-2, link			
4	Angarak SAM Site B32-2	02-41-30N 103-36-00E	UR 0200-21	SA-2, link			
5	Angarak SAM Site B28-2	02-37-30N 103-30-00E	UR 0200-21	SA-2, link			25X1
6	Jakarta SAM Site B26-2	02-10-00N 103-41-00E	UR 0200-21	SA-2, link			
7	Jakarta SAM Site B23-2	02-06-10N 103-36-00E	UR 0200-22	SA-2, link			
8	Jakarta SAM Site B19-2	02-02-15N 104-14-13E	UR 0200-22	SA-2, link			
9	Jakarta SAM Site B18-2	02-10-20N 104-33-00E	UR 0200-22	SA-2, link			
10	Jakarta SAM Site A18-2	02-09-30N 104-19-30E	UR 0200-22	SA-2, link			
11	Jakarta SAM Support Facility 2	02-14-20N 104-18-10E	UR 0200-22	Type I (rectangular)			
12	Jakarta SAM Site A05-2	02-23-10N 104-27-00E	UR 0200-22	SA-2, link			
13	Jakarta SAM Site B02-2	02-35-45N 104-23-20E	UR 0200-22	SA-2, probable link			
14	Jakarta SAM Site B3-2	02-33-10N 104-11-00E	UR 0200-22	SA-2, link			
15	Angarak SAM Support Facility	02-32-30N 104-01-30E	UR 0200-22	Type I (rectangular)			
16	Jakarta SAM Support Facility	02-24-25N 103-59-10E	UR 0200-22	Type I (rectangular)			

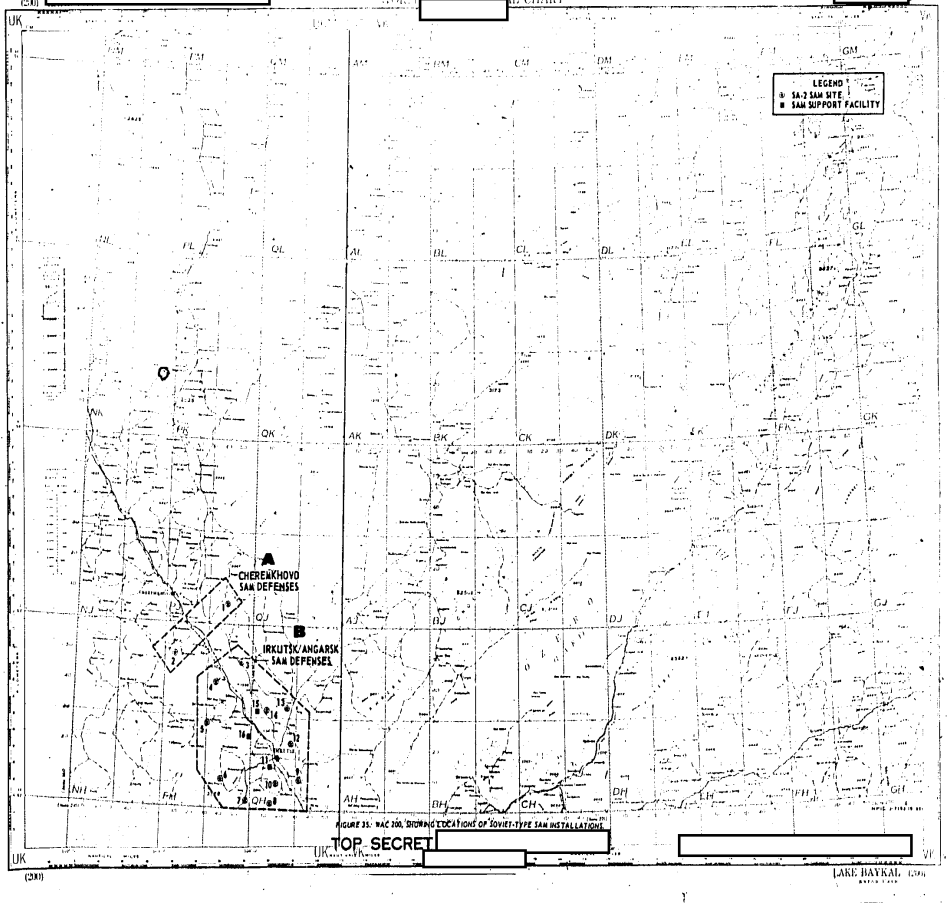
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Table 35. SAM Installations on RAC 201

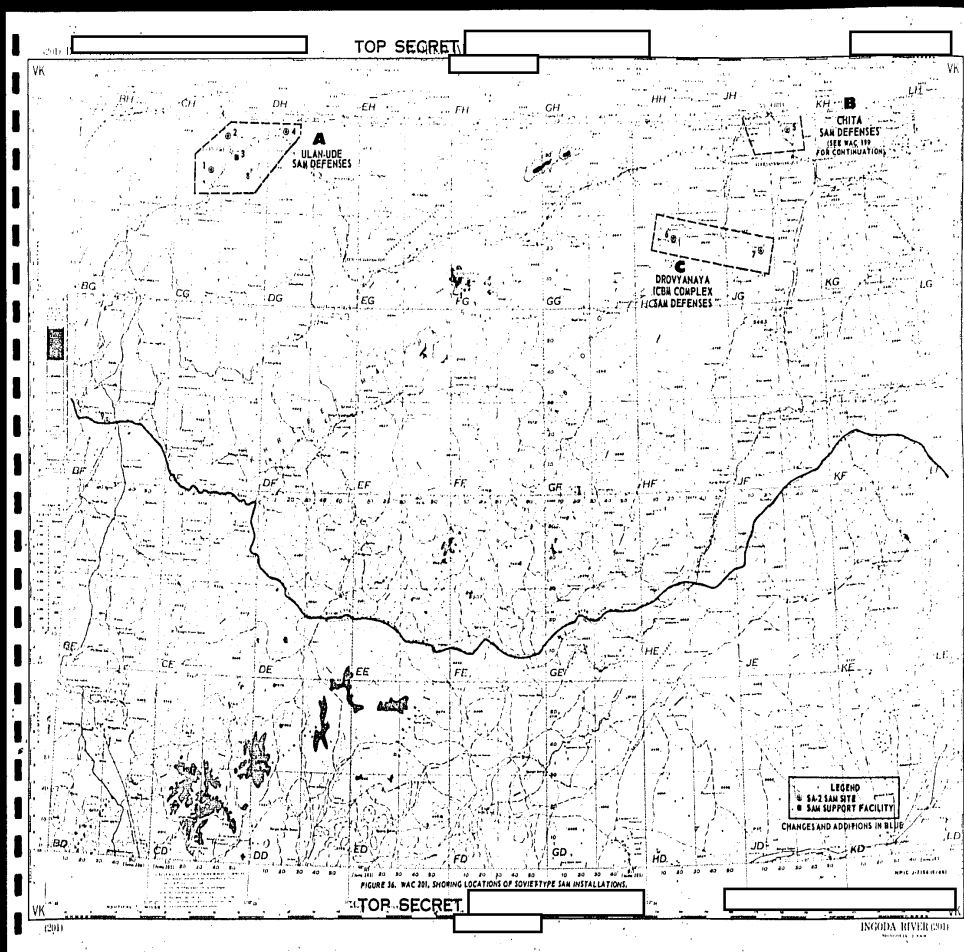
Item	Name, Site Designator, & HE No	Coordinates	County & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Negated	Remarks
A Ulan-Ude SAM Defense (in defense of Ulan-Ude: industrial, rail, and communications center, aircraft assembly plant, population center, government control center)							
1	Ulan-Ude SAM Site B14-2	51-45-30N 107-25-00E	UR 0201-1	SA-2, link	[Redacted]	[Redacted]	25X1
2	Ulan-Ude SAM Site A15-2	51-54-20N 107-25-45E	UR 0201-1	SA-2, probable link			
3	Ulan-Ude SAM Support Facility	51-47-55N 107-29-40E	UR 0201-1	Type II (square)			
4	Ulan-Ude SAM Site C08-2	51-56-10N 108-11-50E	UR 0201-2	SA-2, probable link			
5	Ulan-Ude SAM Site B13-2	51-45-10N 107-53-40E	UR 0201-2	SA-2, configuration undetermined			
B Chita SAM Defense (in defense of Chita: population center, government and military control center)							
6	Chita SAM Site B14-2	51-55-00N 113-41-00E	UR 0201-5	SA-2, star			
C Dvoynaya ICBM Complex SAM Defense (in defense of Dvoynaya ICBM Complex)							
7	Dvoynaya ICBM Complex SAM Site C08-2	51-22-35N 112-28-05E	UR 0201-4	SA-2, link			
8	Dvoynaya ICBM Complex SAM Site B14-2	51-17-50N 113-22-00E	UR 0201-5	SA-2, link			
D Defensive Role Undetermined							
9	Kyalta SAM Site A19-2	50-20-10N 106-26-50E	UR 0201-11	SA-2, configuration undetermined			

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Table 21. SAM Installations on WAC 202

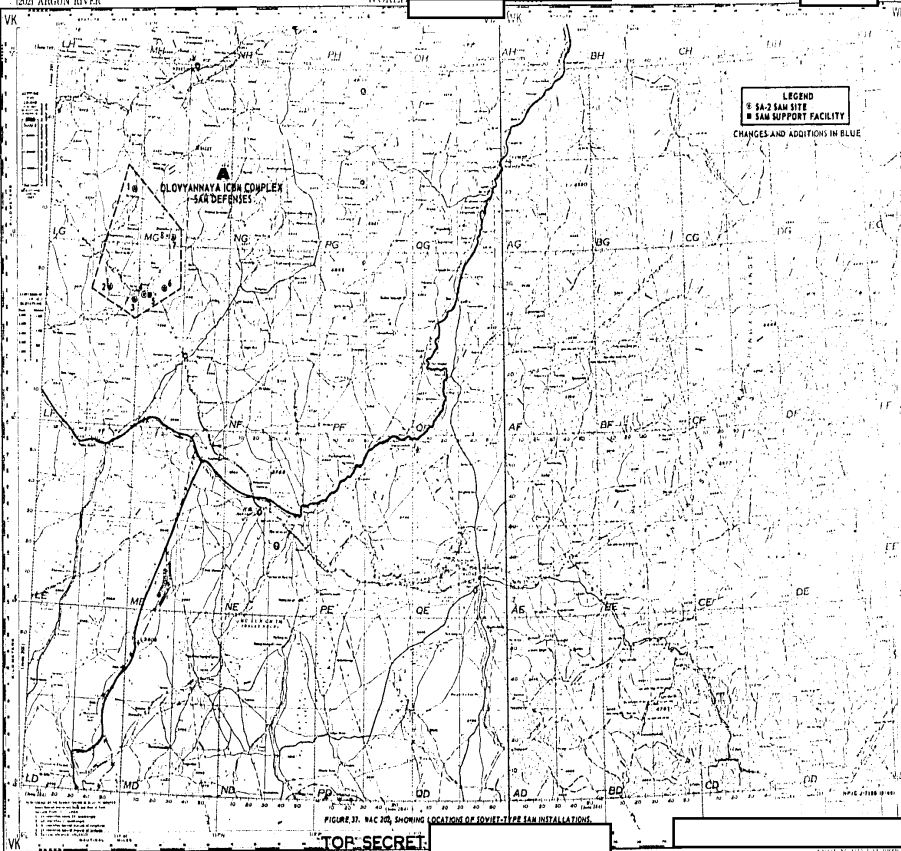
Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appare 1	Mission & Date Installation Negated	Remarks
A Oloyanaya ICBM Complex SAM Defenses (in defense of Oloyanaya ICBM Complex)							
25X1	1 Oloyanaya SAM Site C03-2	51-18-30N 115-34-45E	UR 0202-4	SA-2, link	[Redacted]	[Redacted]	25X1
25X1	2 Oloyanaya SAM Site B17-1	50-46-00N 115-41-00E	UR 0202-4	SA-2, probable link			
25X1	3 Khadabulak SAM Site A26-2	50-49-25N 115-38-40E	UR 0202-4	SA-2, configuration undetermined			
25X1	4 Khadabulak SAM Site A27-2	50-43-30N 116-01-20E	UR 0202-4	SA-2, configuration undetermined			
25X1	5 Khadabulak SAM Support Facility	50-41-00N 116-07-00E	UR 0202-4	Type II (square)			
25X1	6 Khadabulak SAM Site A27-2	50-46-00N 116-18-20E	UR 0202-4	SA-2, link			
25X1	7 Oloyanaya ICBM Complex SAM Site C07-2	51-05-25N 116-21-00E	UR 0202-4	SA-2, probable link			
25X1	8 Oloyanaya ICBM Complex SAM Site D15A-2	50-53-30N 116-28-40E	UR 0202-4	S-2, configuration undetermined			

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Table 15. SAM Installations on WAC 503

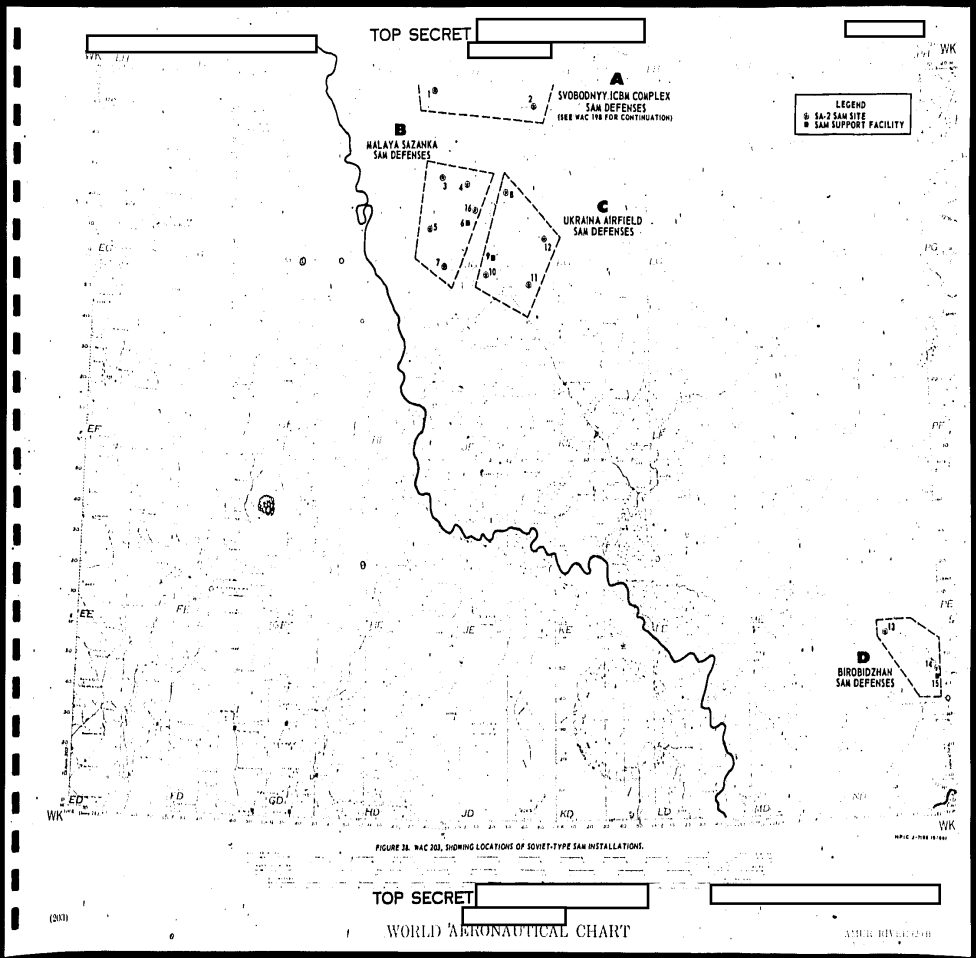
Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appare	Mission & Date Installation Negated	Remarks
A Suboddy ICBM Complex SAM Defenses (in defense of Suboddy ICBM Complex)*							
1	Suboddy ICBM Complex SAM Site C20-2	51-56-00N 127-41-10E	UR 0205-3	SA-2, probable link			
2	Suboddy ICBM Complex SAM Site B09-2	51-55-48N 129-41-05E	UR 0205-3	SA-2, null			
D Bimbidzhan SAM Defenses (defensive role has not been determined)							
13	Bimbidzhan SAM Site C31-2	48-58-30N 152-27-10E	UR 0205-20	SA-2, probable link			
14	Bimbidzhan SAM Site A15-2	48-44-00N 152-56-00E	UR 0205-23	SA-2, link			
15	Bimbidzhan SAM Support Facility	48-43-35N 152-56-20E	UR 0205-23	Type II (square)			

*None elements of all three defense complexes are mutually supporting.
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Table 20. SAM Installations on WAC 201

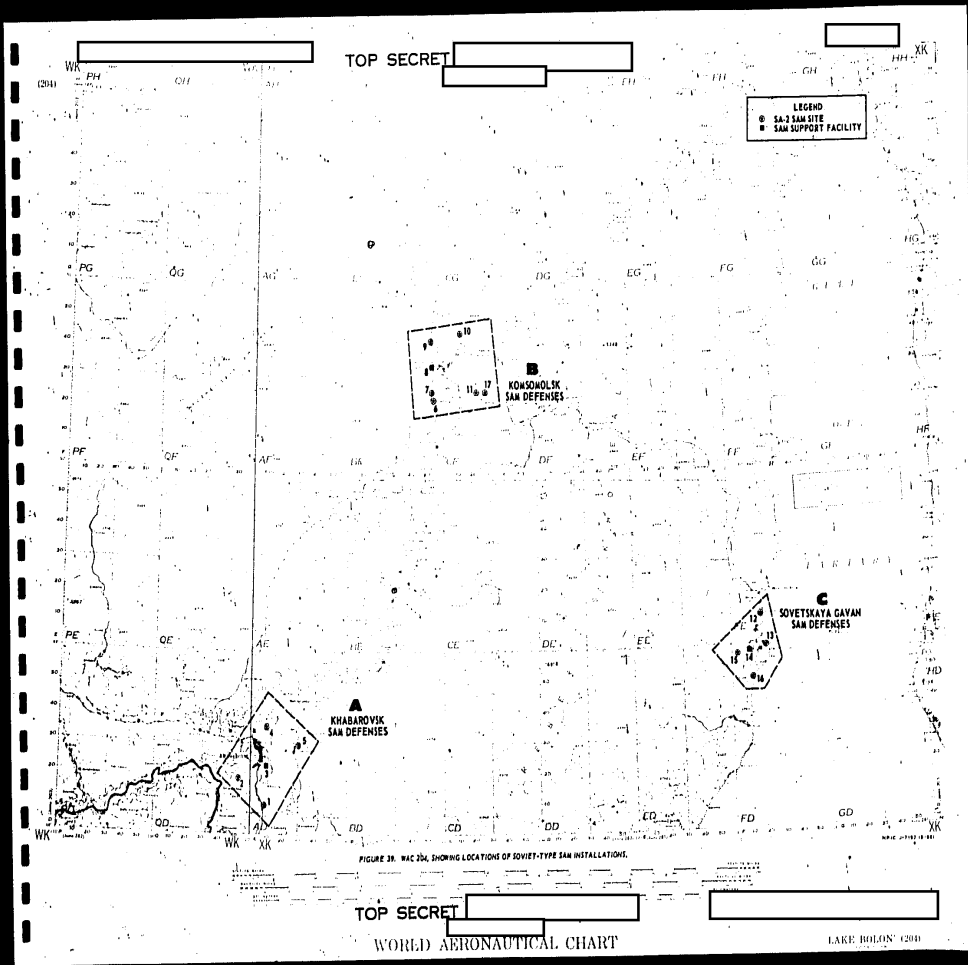
Item	Name, Site Designator, & DE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A Khabarovsk SAM Defenses (in defense of Khabarovsk: industrial center, airport, fighter and seaplane bases, shipyards, naval base, [redacted] and headquarters for Soviet Far East Air Force)							
25X1	1 Khabarovsk SAM Site B16-2	[redacted]	48-16-43N 135-06-15E	UR 0201-22	SA-2, skull		[redacted]
25X1	2 Khabarovsk SAM Site B16-2	[redacted]	48-18-20N 134-52-00E	UR 0201-22	SA-2, skull		
25X1	3 Khabarovsk SAM Support Facility	[redacted]	48-22-40N 135-00-00E	UR 0201-22	Type I (rectangular)		
25X1	4 Khabarovsk SAM Site A16-2	[redacted]	48-35-30N 135-00-00E	UR 0201-22	SA-2, skull		
25X1	5 Khabarovsk SAM Site B19-2	[redacted]	48-29-10N 135-20-45E	UR 0201-22	SA-2, skull		
B Komsomolsk SAM Defenses (in defense of Komsomolsk: major shipyard, aircraft plant, iron and steel plant, and air defenses)							
25X1	6 Komsomolsk SAM Site B21-2	[redacted]	50-25-20N 138-34-50E	UR 0201-18	SA-2, probable link		[redacted]
25X1	7 Komsomolsk SAM Site B22-2	[redacted]	50-25-00N 138-53-30E	UR 0201-18	SA-2, probable link		
25X1	8 Komsomolsk SAM Support Facility	[redacted]	50-53-20N 138-55-20E	UR 0201-18	Type I (rectangular)		
25X1	9 Komsomolsk SAM Site A33-2	[redacted]	50-41-20N 138-53-10E	UR 0201-18	SA-2, probable link		
25X1	10 Komsomolsk SAM Site B01-2	[redacted]	50-43-20N 137-11-30E	UR 0201-18	SA-2, probable link		
25X1	11 Komsomolsk SAM Site B14-2	[redacted]	50-24-00N 137-20-00E	UR 0201-18	SA-2, probable link		
25X1	12 Komsomolsk SAM Site B14A-2	[redacted]	50-24-00N 137-20-50E	UR 0201-18	SA-2, configuration undetermined		
C Sovetskaya Gavan SAM Defenses (in defense of Sovetskaya Gavan: MHRU complex, large naval base, shipbuilding and repair port facilities, submarine base, and air defense headquarters)							
25X1	12 Sovetskaya Gavan SAM Site A01-2	[redacted]	48-10-50N 140-18-00E	UR 0201-20	SA-2, link		[redacted]
25X1	13 Sovetskaya Gavan SAM Site A13-2	[redacted]	48-59-10N 140-22-40E	UR 0201-20	SA-2, link		
25X1	14 Sovetskaya Gavan SAM Support Facility	[redacted]	48-56-23N 140-12-20E	UR 0201-19	Type II (square)		
25X1	15 Sovetskaya Gavan SAM Site A25-2	[redacted]	48-58-30N 140-05-20E	UR 0201-20	SA-2, star		
25X1	16 Sovetskaya Gavan SAM Site B19-2	[redacted]	48-49-00N 140-15-45E	UR 0201-20	SA-2, link		
25X1	17 Sovetskaya Gavan SAM Site B19-2	[redacted]	48-49-00N 140-15-45E	UR 0201-20	SA-2, link		

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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
▲ Poronayk SAM Defense (defensive rule has not been determined)							
1	Poronayk SAM Site B35-2	49-34-25N 143-32-00E	UR 0205-16	SA-2, star			25X1
2	Poronayk SAM Site A25-2	49-06-45N 142-57-16E	UR 0205-16	SA-2, reconfiguration undetermined			
3	Poronayk SAM Site A30-2	49-16-40N 142-54-50E	UR 0205-16	SA-2, link			

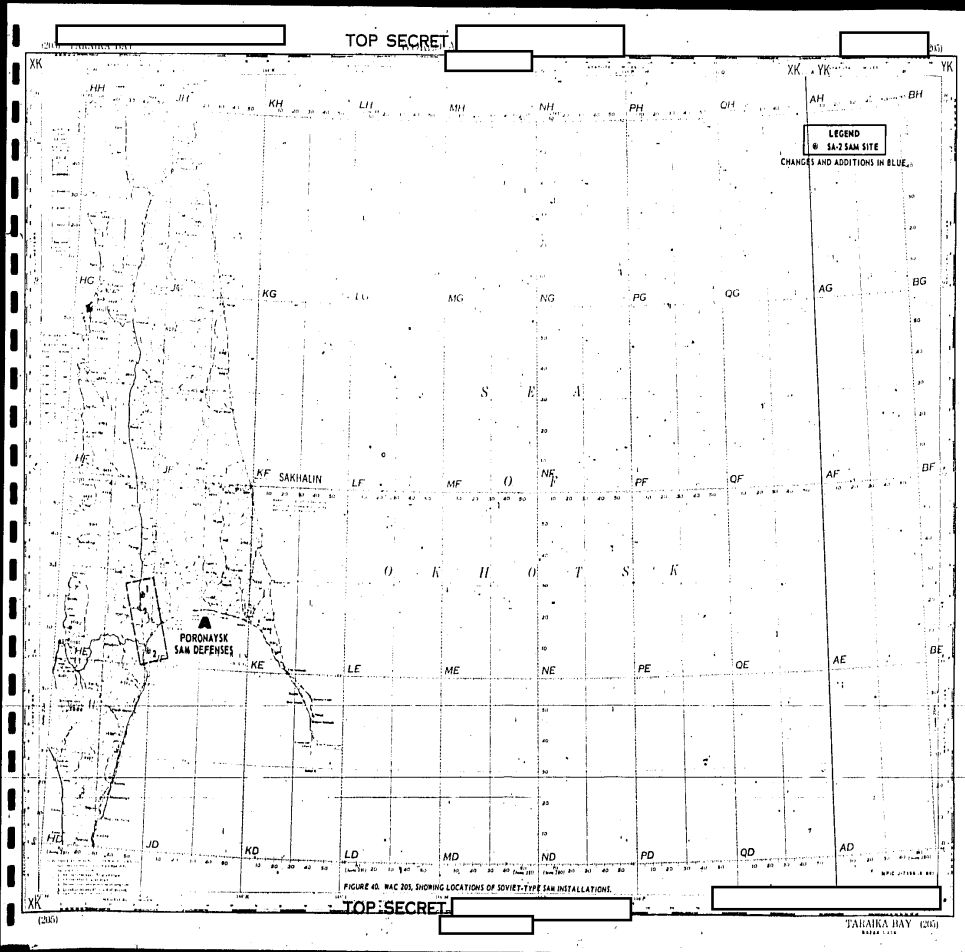
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Table 58. SAM Installations on WAC III (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	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	50-13-00N 13-04-00E	CZ 0231-14	SA-2, configuration undetermined			
13	Pilsen SAM Site A21-2	49-38-20N 13-18-45E	CZ 0231-14	SA-2, probable link			
23	Pilsen probable SAM Site	49-33-52N 13-41-50E	CZ 0231-14	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	50-10-25N 13-36-15E	CZ 0231-14	SA-2, fan			
15	Prague SAM Site C34-2	50-23-30N 14-12-00E	CZ 0231-14	SA-2, probable fan			
16	Prague SAM Site B08-2	50-20-20N 14-07-55E	CZ 0231-15	SA-2, probable fan			
17	Prague SAM Site C06-2	50-16-55N 14-38-55E	CZ 0231-15	SA-2, configuration undetermined			
18	Prague SAM Site B11-2	50-01-55N 14-41-00E	CZ 0231-15	SA-2, fan			
19	Prague SAM Site B16-2	49-52-50N 14-21-45E	CZ 0231-15	SA-2, probable fan			
20	Prague SAM Site B21-2	49-46-45N 14-18-00E	CZ 0231-15	SA-2, fan			
21	Prague SAM Site B23-2	49-38-00N 14-00-45E	CZ 0231-14	SA-2, fan			
22	Prague SAM Support Facility 7	50-01-00N 14-03-15E	CZ 0231-14	Type I (rectangular)			
34	Prague SAM Support Facility 1	50-12-25N 14-43-40E	CZ 0231-15	Type II (square)			
F Aslax (Poland) SAM Defenses (in defense of Aslax Airfield; a major Soviet airbase in Poland)							
24	Boleslawiec SAM Site A07-2	51-18-20N 15-44-55E	PO 0231-5	SA-2, link			
35	Boleslawiec SAM Site B31-2	51-27-05N 15-25-07E	PO 0231-5	SA-2, configuration undetermined			

G Defensive Role Undetermined

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Table 35. SAM Installations on WNU 718

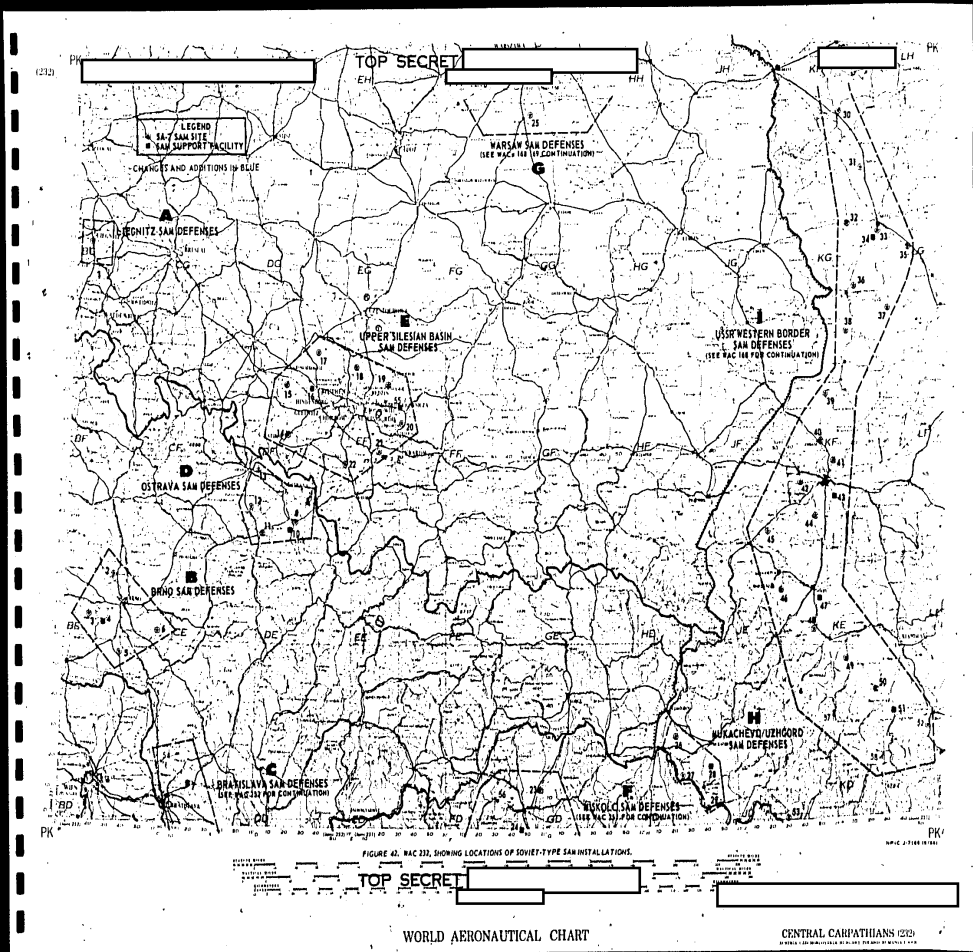
Item	Name, Site Designator, & DE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
Note - Installations whose defensive role is unknown, and which do not fall within the confines of a SAM defense area are found under subheading J - "Defensive Role Undetermined."							
25X1	A Liegnitz (Poland) SAM Defenses (probably in defense of Liegnitz Airfield)						
	1 Liegnitz SAM Site A23-2	51-11-50N 16-08-30E	PO 0235-6	SA-2, probable star			25X1
	B Brno (Czechoslovakia) SAM Defenses (in defense of major electronic, heavy industry, transportation, and military facilities)						
25X1	2 Brno SAM Site B35-2	49-23-30N 16-30-15E	CZ 0232-16	SA-2, configuration undetermined			
25X1	3 Brno SAM Site B20-2	49-09-25N 16-15-00E	CZ 0232-16	SA-2, configuration undetermined			This facility has been incorporated into an existing explosives storage area. It resembles the Type I facility more than the Type II.
	4 Brno SAM Support Facility	49-07-35N 16-24-00E	CZ 0232-16	Type I (rectangular)			
25X1	5 Brno SAM Site B19-2	48-57-10N 16-35-15E	CZ 0232-16	SA-2, diary			
	6 Brno SAM Site B12-2	49-05-00N 16-51-25E	CZ 0232-16	SA-2, configuration undetermined			
	C Bratislava (Czechoslovakia) SAM Defenses (in defense of major military center with important industrial facilities, including PUL, explosives, wire and cable, and electrical engineering products)						
25X1	7 Bratislava SAM Support Facility	48-18-25N 17-19-30E	CZ 0232-21	Type I (rectangular)			25X1
25X1	8 Bratislava SAM Site B32-2	48-20-05N 17-03-25E	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)						
25X1	9 Ostrava SAM Site B09-2	49-34-00N 18-35-30E	CZ 0232-12	SA-2, fan			25X1
25X1	10 Ostrava SAM Site A16-2	49-41-10N 18-24-20E	CZ 0232-12	SA-2, fan			
25X1	11 Ostrava SAM Site B22-2	49-38-00N 18-20-00E	CZ 0232-12	Type I (rectangular)			
25X1	12 Ostrava SAM Site B06-2	49-38-00N 18-02-30E	CZ 0232-12	SA-2, fan			
	13 Ostrava SAM Site B32-2	49-41-00N 17-55-00E	CZ 0232-12	SA-2, fan			
	14 Ostrava SAM Site B32-2	49-40-30N 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)						
25X1	14 Chorzow SAM Site C28-2	50-11-00N 18-18-10E	PO 0232-12	SA-2, fan			
25X1	15 Chorzow SAM Site C29-2	50-27-00N 18-17-40E	PO 0232-7	SA-2, fan			
25X1	16 Chorzow SAM Support Facility 1	50-23-40N 18-03-30E	PO 0232-7	Type I (rectangular)			
25X1	17 Chorzow SAM Site C25-2	50-37-45N 18-37-30E	PO 0232-7	SA-2, fan			
25X1	18 Chorzow SAM Site B01-2	50-43-40N 18-01-45E	PO 0232-7	SA-2, fan			
25X1	19 Chorzow SAM Site B06-2	50-27-00N 18-21-54E	PO 0232-7	SA-2, fan			
25X1	20 Chorzow SAM Site C10-2	50-15-00N 18-30-00E	PO 0232-12	SA-2, fan			
25X1	21 Chorzow SAM Site B14-2	50-05-00N 18-18-40E	PO 0232-12	SA-2, fan			
25X1	22 Chorzow SAM Site B19-2	50-02-10N 18-34-00E	PO 0232-12	SA-2, fan			
25X1	23 Chorzow SAM Support Facility 2	50-16-21N 18-31-25E	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)						
25X1	23 Miskolc SAM Site B01-2	48-14-00N 20-56-20E	HU 0232-23	SA-2, diary			
25X1	24 Miskolc SAM Support Facility	48-01-20N 20-43-40E	HU 0232-23	Type I (rectangular)			25X1
25X1	25 Miskolc SAM Site B03-2	48-15-18N 20-51-40E	HU 0232-23	SA-2, fan			
	G Warsaw (Poland) SAM Defenses (in defense of Polish capital, industrial, military, and governmental control center of Poland)						
25X1	25 Warsaw SAM Site C12-2	51-34-00N 20-35-00E	PO 0232-3	SA-2, link			
	H Mikashevo (Ukrainian) SAM Defenses (in defense of Mikashevo and Ukhgord MRBM Complexes)						
25X1	26 Mikashevo SAM Site B20-2	48-31-10N 22-31-00E	UR 0232-24	SA-2, star			
25X1	27 Mikashevo SAM Site B21-2	48-18-00N 22-24-00E	UR 0232-24	SA-2, star			
25X1	28 Mikashevo SAM Support Facility	48-21-00N 22-42-00E	UR 0232-24	Type II (square)			
25X1	29 Mikashevo SAM Site B18-2	48-07-00N 22-35-00E	UR 0232-24	SA-2, star			

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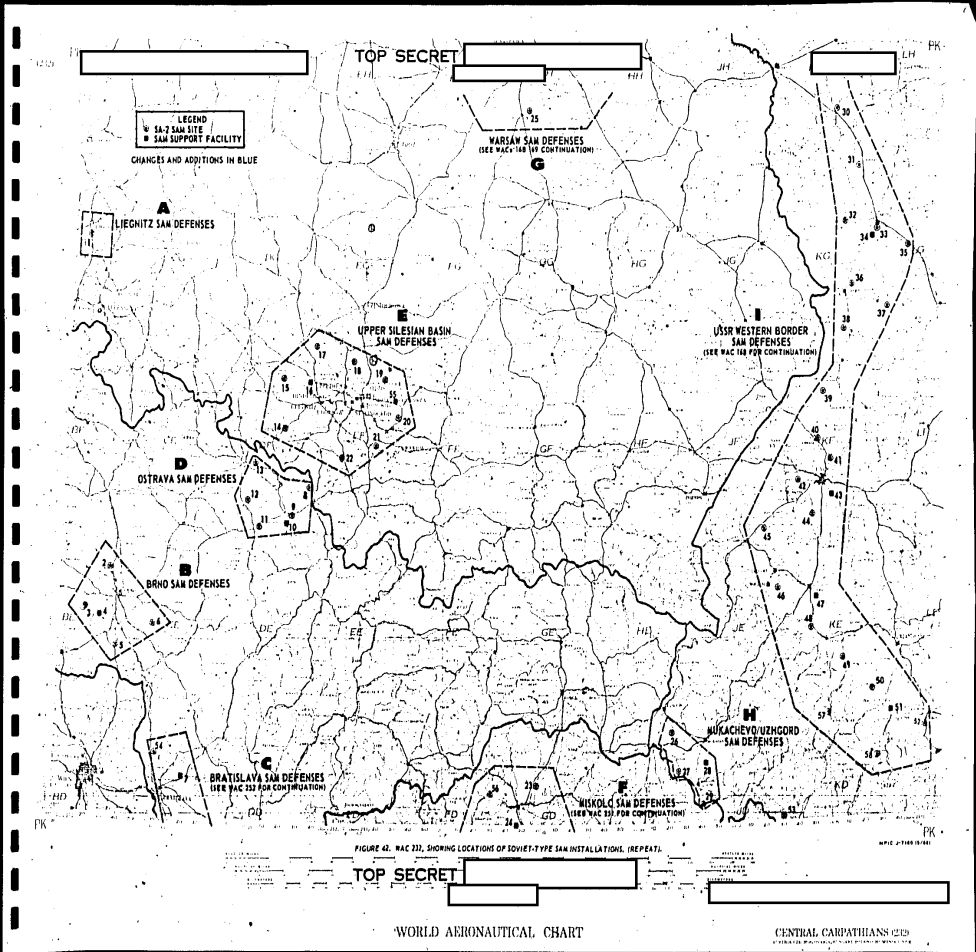
Table 22. SAM Installations on WAC 222 (Continued)

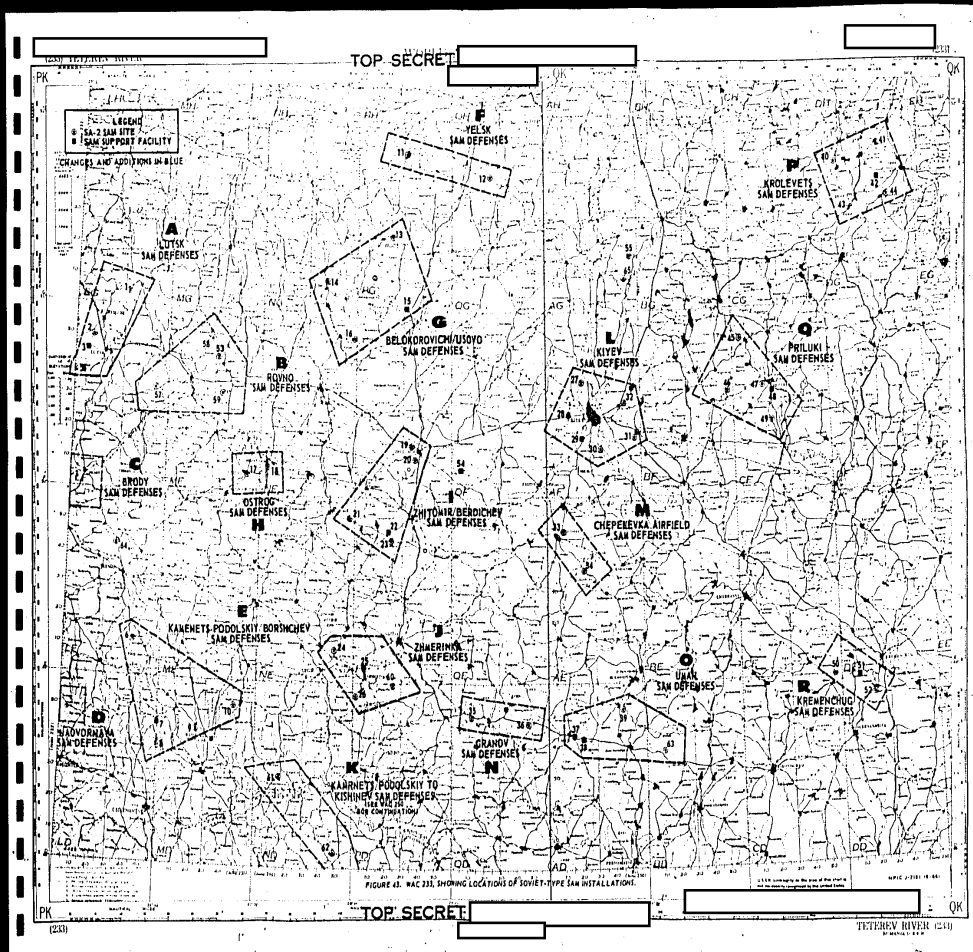
Item	Name, Site Designator, & DE No	Coordinates	Country & Map Ref	Type & Configuration	Historic & Date First Appeared	Mission & Date Installation Negotiated	Remarks
USSR Western Border SAM Defenses (in defense of western border of USSR and Sakal, Drogbych, Dolina, and Nadvornaya MRBM Complexes)							
25X1	30	Brest SAM Site C13-2	51-51-00N 24-19-30E	UR 0232-5	SA-2, link		
	31	Kovel SAM Site C23-2	51-32-50N 24-32-30E	UR 0232-5	SA-2, star		
	32	Kovel SAM Site B29-2	51-13-50N 24-22-00E	UR 0232-5	SA-2, star		
	33	Kovel SAM Site A24-2	51-12-00N 24-41-00E	UR 0232-5	SA-2, fan		
25X1	34	Kovel SAM Support Facility	51-10-20N 24-38-30E	UR 0232-10	Type II (square)		
25X1	35	Kovel SAM Site B13-2	51-06-45N 24-59-00E	UR 0232-10	SA-2, star		
25X1	36	Vladimir Volyevskiy SAM Site A04-2	50-55-10N 24-23-50E	UR 0232-10	SA-2, star		
25X1	37	Lutsk MRBM Complex SAM Site B27	50-41-15N 24-14-30E	UR 0232-10	SA-2, link		
25X1	38	Sokal SAM Site B09-2	50-40-30N 24-17-00E	UR 0232-10	SA-2, star		
25X1	39	Sokal MRBM Complex SAM Site B26-2	50-31-15N 24-02-35E	UR 0232-15	SA-2, star		
25X1	40	Lvov SAM Site B34-2	50-05-03N 23-58-25E	UR 0232-15	SA-2, star		
	41	Lvov SAM Site A29-2	49-44-00N 24-00-00E	UR 0232-15	SA-2, star		This site may never have been completed. On [Redacted] consisted of at least two launch revolvers and a portion of a star configuration road pattern. This site was reported on [Redacted]
25X1	42	Lvov SAM Site B29-2	49-45-20N 24-45-00E	UR 0232-15	SA-2, link		
25X1	43	Lvov SAM Support Facility	49-41-10N 24-05-20E	UR 0232-15	Type I (rectangular)		
25X1	44	Lvov SAM Site B23-2	49-41-01N 24-55-28E	UR 0232-15	SA-2, star		
25X1	45	Drogbych SAM Site B33-2	49-37-20N 23-20-41E	UR 0232-15	SA-2, star		
25X1	46	Drogbych SAM Site A19-2	49-17-50N 23-30-00E	UR 0232-20	Type II (square)		
25X1	47	Stroy SAM Support Facility	49-14-30N 23-55-10E	UR 0232-20	Type II (square)		
25X1	48	Stroy SAM Site B16-2	49-04-50N 23-30-30E	UR 0232-20	SA-2, star		
25X1	49	Dolina MRBM Complex SAM Site B18-2	48-54-10N 24-08-30E	UR 0232-20	SA-2, star		
25X1	50	Ivano Frankovsk SAM Site B25-2	48-43-20N 24-28-00E	UR 0232-25	SA-2, star		
25X1	51	Ivano Frankovsk SAM Support Facility	48-43-25N 24-34-10E	UR 0232-25	Type II (square)		
25X1	52	Ivano Frankovsk SAM Site C16-2	48-30-50N 24-27-33E	UR 0232-25	SA-2, star		
25X1	53	Nikarshon SAM Site B06-2	48-23-50N 23-00-00E	UR 0232-24	SA-2, configuration undetermined		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.
25X1	54	Nadvornaya MRBM Complex SAM Site C21-2	48-18-18N 23-23-40E	UR 0232-25	SA-2, fan		
	55	Defensive Role Undetermined					
	55	Khat SAM Site B14-2	48-05-50N 23-29-41E	UR 0232-25	SA-2, link		

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Table 26. SAM Installations on WAC 233 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Urgated	Remarks
J Zheretka SAM Defenses (in defense of Zheretka MBHM Complex)							
24	Zheretka MBHM Complex SAM Site B29-2	49-19-10N 27-49-00E	UR 0233-17	SA-2, star			25X1
25	Zheretka SAM Support Facility	49-05-43N 29-09-15E	UR 0233-17	Type II (square)			
26	Zheretka SAM Site A18-2	48-58-00N 28-03-00E	UR 0233-17	SA-2, star			
27	Zheretka SAM Site B13-2	48-58-00N 28-21-00E	UR 0233-17	SA-2, star			
K Karavets - Podol'skiy SAM Defenses (in defense of the south-western border of the USSR between Karavets - Podol'skiy and Kirovets)							
61	Mykolaj-Podol'skiy SAM Site C12-2	48-29-30N 27-43-15E	UR 0233-22	SA-2, configuration undetermined			25X1
62	Mykolaj-Podol'skiy SAM Site C19-2	48-01-30N 27-46-50E	UR 0233-22	SA-2, configuration undetermined			
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	50-37-15N 30-21-30E	UR 0233-9	SA-2, star			25X1
28	Kiyev SAM Site A36-2	50-20-00N 30-18-00E	UR 0233-9	SA-2, star			
29	Kiyev SAM Support Facility	50-19-30N 30-34-30E	UR 0233-9	Type I (rectangular)			
30	Kiyev SAM Site B16-2	50-15-32N 30-30-15E	UR 0233-9	SA-2, star			
31	Kiyev SAM Site B12-2	50-18-32N 30-58-15E	UR 0233-9	SA-2, star			25X1
32	Kiyev SAM Site B09-2	50-30-10N 30-51-25E	UR 0233-9	SA-2, configuration undetermined			
M Chepelivka Airfield SAM Defenses (in defense of Chepelivka Long Range Air Arm Airfield)							
33	Bol'sha Trotska SAM Site A12-2	49-49-10N 29-11-30E	UR 0233-13	SA-2, star			25X1
34	Bol'sha Trotska SAM Site B14-2	49-36-00N 29-21-00E	UR 0233-13	SA-2, star			
N Granov SAM Defenses (in defense of Granov MBHM Complex)							
35	Granov MBHM Complex SAM Site B25-2	48-19-10N 29-19-10E	UR 0233-18	SA-2, star			25X1
36	Granov MBHM Complex SAM Site B12-2	48-47-00N 29-19-10E	UR 0233-23	SA-2, star			
O Uman SAM Defenses (in defense of Uman MBHM Complex)							
37	Uman SAM Support Facility	48-43-20N 30-17-20E	UR 0233-23	Type II (square)			25X1
38	Uman MBHM Complex SAM Site B29-2	48-42-15N 30-22-50E	UR 0233-23	SA-2, link			
39	Uman SAM Site A13-2	48-51-32N 30-16-00E	UR 0233-19	SA-2, link			25X1
40	Uman SAM Site C13-2	48-57-45N 31-10-20E	UR 0233-19	SA-2, configuration undetermined			
P Kirovets SAM Defenses (in defense of Kirovets MBHM Complex)							
40	Kirovets SAM Site B35-2	51-44-40N 33-11-30E	UR 0233-3	SA-2, link			25X1
41	Kirovets SAM Site B10-2	51-49-00N 33-08-25E	UR 0233-3	SA-2, link			
42	Kirovets SAM Support Facility	51-56-50N 33-41-30E	UR 0233-3	Type II (square)			
43	Kirovets SAM Site A21-2	51-29-15N 33-09-55E	UR 0233-3	SA-2, link			
44	Kirovets SAM Site B09-2	51-33-10N 33-44-40E	UR 0233-3	SA-2, probable link			

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

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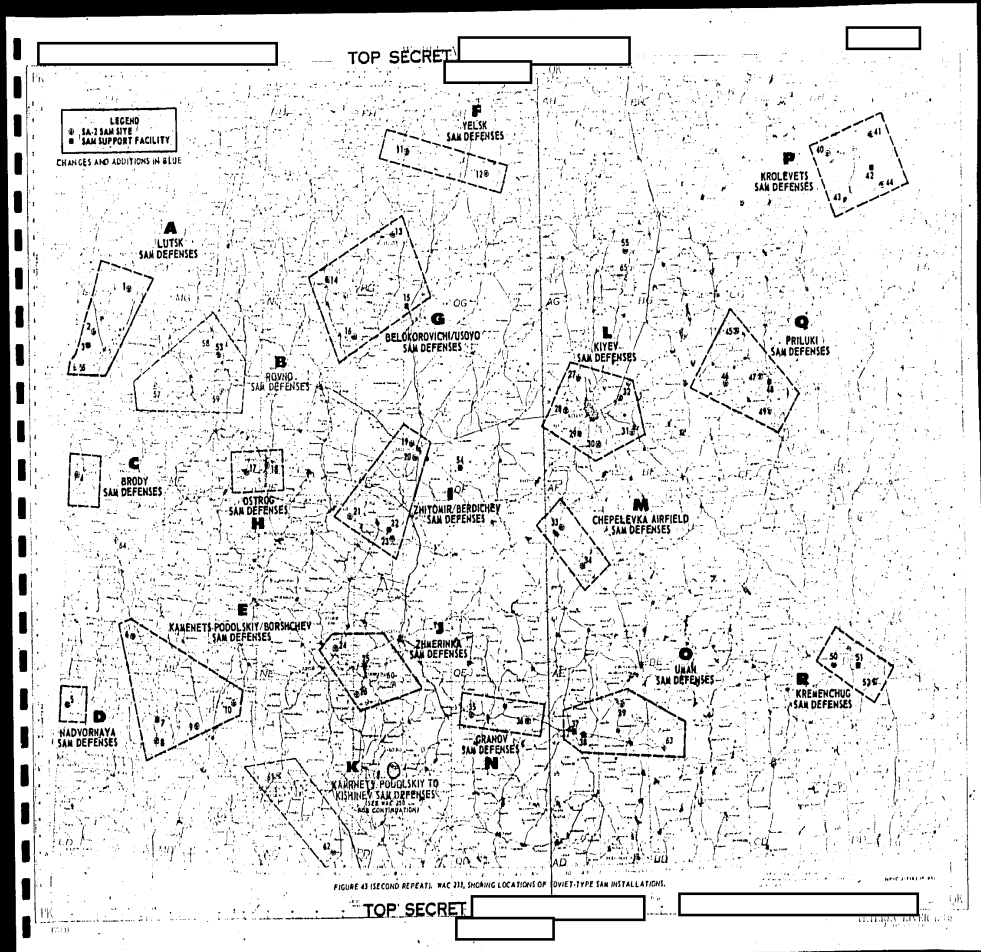
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Table 10. SAM Installations on SAC 233 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Negated	Remarks
	Priluki SAM Defenses (in defense of Priluki Long Range Air Am Airfield)						
25X1	45 Priluki SAM Site B25-2	50-19-00N 32-06-00E	UR 0233-9	SA-2, configuration undetermined			25X1
	46 Priluki SAM Site B25-2	50-19-00N 32-09-33E	UR 0233-9	SA-2, star			
25X1	47 Priluki SAM Site A25-2	50-14-55N 32-28-33E	UR 0233-10	SA-2, probable link			
	48 Priluki SAM Support Facility	50-32-50N 32-25-00E	UR 0233-10	Type II (square)			
25X1	49 Priluki SAM Site B16-2	50-28-45N 32-25-30E	UR 0233-15	SA-2, star			
	Kremenchug SAM Defenses (in defense of Kremenchug Dam and Power Plant)						
25X1	50 Kremenchug SAM Site B26-2	49-00-55N 32-57-43E	UR 0233-21	SA-2, star			
25X1	51 Kremenchug SAM Support Facility	48-58-35N 33-12-30E	UR 0233-21	Type I (rectangular)			
25X1	52 Kremenchug SAM Site B16-2	48-53-40N 33-21-30E	UR 0233-20	SA-2, star			
	Defensive Role Undetermined						
25X1	53 Zhitomir SAM Storage Site	50-10-00N 29-03-00E	UR 0233-13	Missile assembly and storage facility			This installation is similar to those found at Moscow and Dushkino. 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.
	55 Chernigov SAM Site B25-2	51-17-00N 30-04-10E	UR 0233-4	SA-2, star			
25X1	61 Ternopol SAM Site B35-2	49-42-40N 29-30-20E	UR 0233-11	SA-2, configuration undetermined			
	63 Chernigov SAM Site B25-2	51-08-10N 30-31-00E	UR 0233-9	SA-2, link			

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Table II. SAM Installations on R/C 214

Item	Name, Site Designator, & BR No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appare ¹	Mission & Date Installation Negot ¹	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, Bq 13th Heavy Bomber Air Division with Type II, modified, [redacted] and [redacted] railroad facilities)</p>							
25X1	1	Poltava SAM Site B29-2	[redacted]	49-58-55N 34-08-20E	UR 0231-11	Sv2, star	25X9
25X1	2	Poltava SAM Site B21-2	[redacted]	49-24-00N 34-22-40E	UR 0231-16	Sv2, star	25X1
25X1	3	Poltava SAM Support Facility	[redacted]	49-29-45N 34-31-30E	UR 0231-16	Type II (square)	
	4	Poltava SAM Site A18-2	[redacted]	49-36-00N 34-31-20E	UR 0231-16	Sv2, star	
<p>B. Dnepropetrovsk/Dnepropetrovsk SAM Defenses (in defense of strategic industrial area comprising the heavy industry complex at Dnepropetrovsk: iron, coke, railroad car, synthetic ammonia, and coke-chemical plants; uranium concentration and railroad facilities; Dnepropetrovsk steel, locomotive, heavy equipment, and coke-chemical plants; rolling mills, railroad facilities, power plant, and Dnepropetrovsk Missile Development and Production Plant, DMDPC)</p>							
25X1	5	Verkhovne SAM Site B11-2	[redacted]	48-32-55N 34-14-45E	UR 0231-12	Sv2, star	
25X1	6	Dnepropetrovsk SAM Site C22-2	[redacted]	48-17-38N 34-24-23E	UR 0231-21	Sv2, probable star	
25X1	7	Dnepropetrovsk SAM Site B13-2	[redacted]	48-01-50N 34-04-40E	UR 0231-21	Sv2, link	25X1
	8	Dnepropetrovsk SAM Support Facility	[redacted]	48-23-40N 34-08-35E	UR 0231-21	Type I (rectangular)	
25X1	9	Dnepropetrovsk SAM Site B11-2	[redacted]	48-17-08N 35-06-03E	UR 0231-21	Sv2, link	
25X1	10	Dnepropetrovsk SAM Site B11-2	[redacted]	48-29-23N 35-29-44E	UR 0231-21	Sv2, star	
25X1	11	Dnepropetrovsk SAM Site B07-2	[redacted]	48-36-20N 35-25-00E	UR 0231-21	Sv2, star	
	12	Dnepropetrovsk SAM Support Facility	[redacted]	48-25-30N 34-17-30E	UR 0231-21	Type II (square)	
<p>C. Kursk SAM Defenses (in defense of Kursk: strategic railroad junction and yards, battery plant III, and synthetic rubber plant)</p>							
25X1	13	Kursk SAM Site B33-2	[redacted]	51-58-10N 35-59-00E	UR 0231-2	Sv2, configuration undetermined	25X1
25X1	14	Kursk SAM Site B11-2	[redacted]	51-49-25N 36-35-20E	UR 0231-2	Sv2, configuration undetermined	
25X1	15	Kursk SAM Site B20-2	[redacted]	51-32-30N 36-05-30E	UR 0231-2	Sv2, link	
	16	Kursk SAM Support Facility	[redacted]	51-15-30N 36-18-15E	UR 0231-2	Type II (square)	
	17	Kursk SAM Site B11-2	[redacted]	51-55-20N 36-28-00E	UR 0231-2	Sv2, link	
<p>D. Kharkov SAM Defenses (in defense of Kharkov: one of the USSR's largest cities with heavy and chemical machinery, tank and locomotive, tractor, bearings, tools, coke chemical, and aircraft assembly plants; headquarters of southern railroad system of USSR; Ukrainian Physicochemical Institute at Kharkov; and major military air facilities)</p>							
25X1	18	Kharkov SAM Site A01-2	[redacted]	50-07-42N 36-18-22E	UR 0231-12	Sv2, star	
25X1	19	Kharkov SAM Site B29-2	[redacted]	50-06-52N 36-33-00E	UR 0231-12	Sv2, star	25X1
	20	Kharkov SAM Site A29-2	[redacted]	49-58-40N 36-18-35E	UR 0231-12	Sv2, star	
25X1	21	Kharkov SAM Support Facility	[redacted]	49-54-40N 36-28-20E	UR 0231-12	Type II (square)	
	22	Kharkov SAM Site B11-2	[redacted]	49-55-15N 36-31-00E	UR 0231-12	Sv2, star	
<p>E. Krivoye SAM Defenses (in defense of Krivoye industrial complex with the metallurgical plant Kyslyv-shov, and machine and tool plants)</p>							
25X1	23	Krivoye SAM Site B25-2	[redacted]	48-58-00N 37-18-00E	UR 0231-22	Sv2, link	25X1
25X1	24	Krivoye SAM Site B17-2	[redacted]	48-38-10N 37-38-10E	UR 0231-23	Sv2, star	
	25	Krivoye SAM Support Facility	[redacted]	48-44-00N 37-33-00E	UR 0231-22	Type II (square)	
<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>							
25X1	26	Voronezh SAM Site B01-2	[redacted]	51-51-50N 39-14-00E	UR 0231-3	Sv2, link	
25X1	27	Voronezh SAM Support Facility	[redacted]	51-35-30N 39-08-00E	UR 0231-3	Type II (square)	25X1
	28	Voronezh SAM Site B10-2	[redacted]	51-54-00N 39-09-00E	UR 0231-4	Sv2, link	
25X1	29	Voronezh SAM Site B17-2	[redacted]	51-29-18N 39-17-50E	UR 0231-3	Sv2, link	
	30	Voronezh SAM Site B27-2	[redacted]	51-58-30N 38-58-00E	UR 0231-3	Sv2, link	

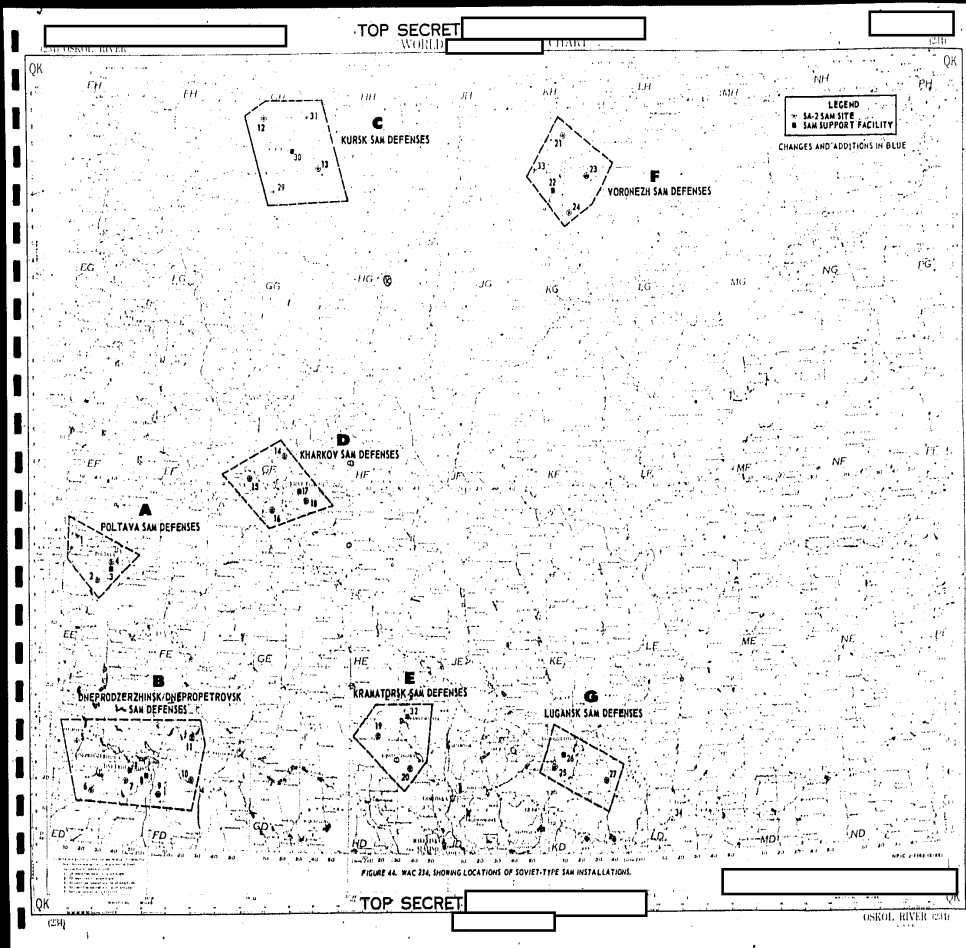
¹These SAM defenses also afford some protection for the highly strategic Donets Basin, principal coal-producing basin of southern USSR, including industrial complexes of Donetsk, Yuzovka, Makarivka, Lugansk, and Gorkala.

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Table 11. SAM Installations on WAC 214 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
G Logansk SAM Defenses (in defense of Logansk heavy industrial complex: major locomotive manufacturing plant, machine and munitions plant, extensive railroad facilities, and power plant)*							
25	Logansk SAM Site B11-2	49-20-00N 39-00-00E	UR 0214-23	SA-2, star			25X1
26	Logansk Possible SAM Site [redacted]	49-20-15N 39-00-00E	UR 0214-23	Type II (square)			
27	Logansk SAM Site B11-2	49-21-00N 39-35-00E	UR 0214-24	SA-2, star			
H Defensive Role Undetermined							
25X1	Kuznetsovskiy SAM Site V19-2	18-30-00N 10-11-00E	UR 0214-21	SA-2, configuration undetermined			Although the defensive role of this site cannot be determined, its location would preclude its participation in the defense of the Donetsk Basin Area.

*These SAM defenses also afford some protection to the highly strategic Donets Basin, principal coal-producing basin of southern USSR, including industrial complexes of Donetsk, Yuzkiyev, Makeyevka, Logansk, and Gletolka.

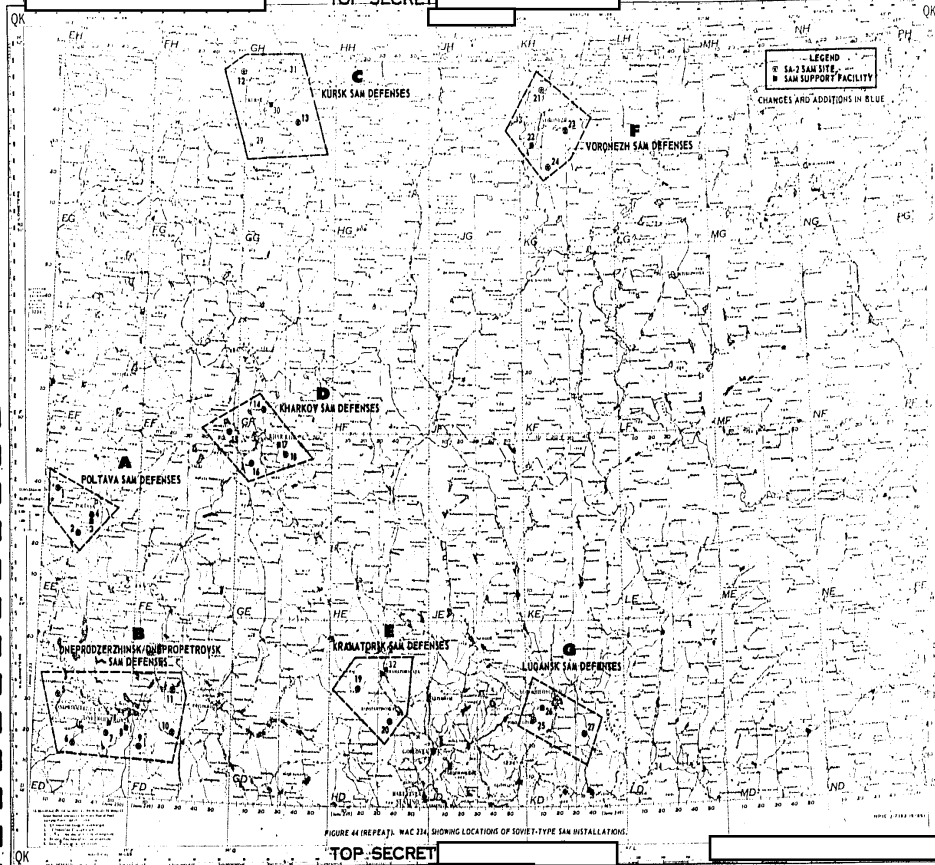
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Table 12. SAM Installations on WAC 215

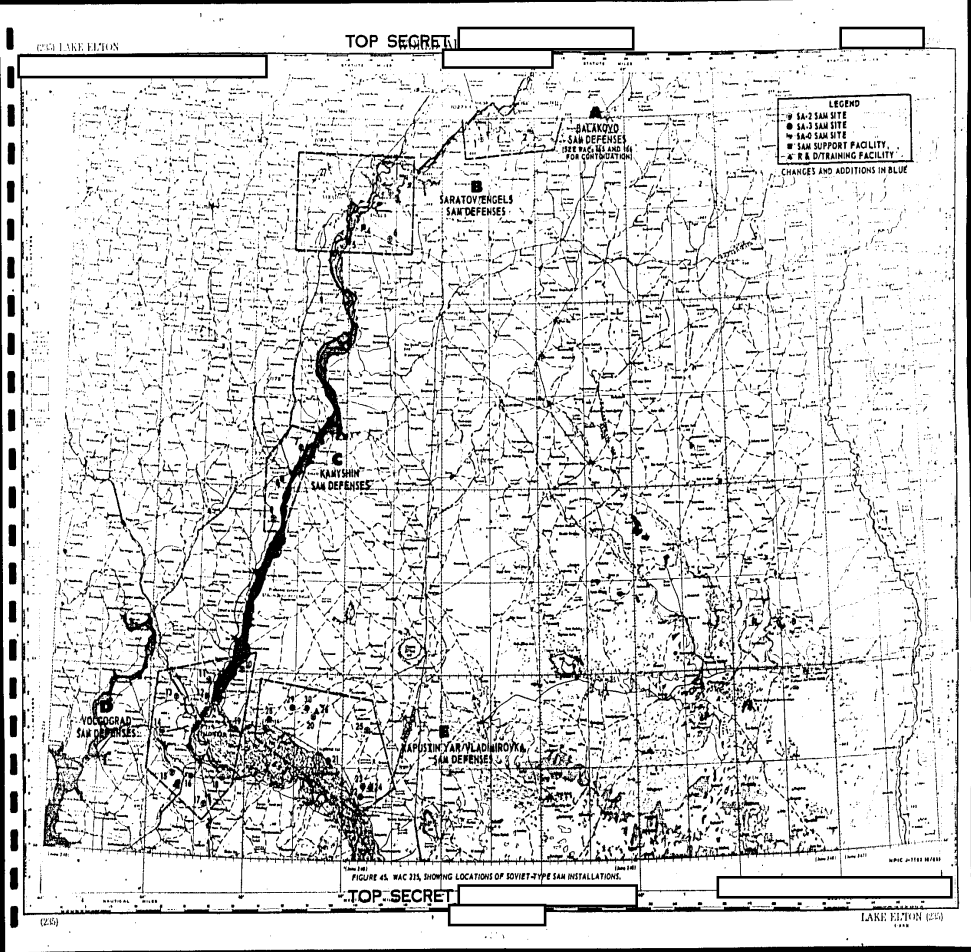
Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
25X1 25X9							
A Balakovo SAM Defense (in defense of Soviet Long Range Air Arm Base at Engels: PUL refueling and storage facilities, power plants, railroad locomotive repairs, railroad car manufacturing, and strategic rail facilities; production facilities for electrical equipment, aircraft parts, guns, chemicals, munitions, metal products, and short-range SSMs and SAMs)							
1	Volk SAM Site A11-0	51-54-30N 47-26-30E	UR 0235-3	SA-0, category 1			25X1
2	Balakovo SAM Site A1	51-56-10N 47-59-30E	UR 0235-3	SA-0, category 1			25X1 When seen on [redacted] this site did not display the configuration of an SA-0 site, although the dimensions place it in that category.
B Saratov/Engels SAM Defense (in defense of Soviet Long Range Air Arm Base at Engels: PUL refueling and storage facilities, power plants, railroad locomotive repairs, railroad car manufacturing, and strategic rail facilities; production facilities for electrical equipment, aircraft parts, guns, chemicals, munitions, metal products, and short-range SSMs and SAMs)							
3	Saratov SAM Site B06-0	51-36-30N 46-28-15E	UR 0235-2	SA-2, star			25X1
4	Saratov SAM Support Facility	51-24-40N 46-10-00E	UR 0235-2	Type I (rectangular)			25X1
5	Saratov SAM Site B15-0	51-30-00N 46-01-15E	UR 0235-2	SA-2, star			25X1
6	Saratov SAM Site C15-0	51-31-45N 46-28-30E	UR 0235-2	SA-2, link			25X1
7	Saratov SAM Site V13-0	51-43-30N 45-17-30E	UR 0235-2	SA-2, star			25X1
C Kamyshin SAM Defense (in defense of Kamyshin: railroad facilities, PUL storage, and light industry)							
7	Kamyshin SAM Site A01-0	50-13-30N 45-33-30E	UR 0235-12	SA-2, star			25X9
8	Kamyshin SAM Support Facility	50-03-30N 45-21-30E	UR 0235-12	Type II (square)			25X1
9	Kamyshin SAM Site B21-0	49-50-45N 45-15-30E	UR 0235-12	SA-2, star			25X1
D Volgograd SAM Defense (in defense of Volgograd: major supplier of military equipment--tanks, guns, explosives, ammunition, small arms, and transportation facilities, PUL refueling and storage facilities, and power plants; and production of chemicals, steel, aluminum, tractors, and oil-rigging equipment)							
10	Volgograd SAM Site C05-0	49-01-00N 44-50-00E	UR 0235-17	SA-2, dairy			25X1
11	Volgograd SAM Site B03-0	48-37-30N 44-30-30E	UR 0235-16	SA-2, dairy			25X1
12	Volgograd SAM Support Facility	48-52-30N 44-30-30E	UR 0235-16	Type I (rectangular)			25X1
13	Volgograd SAM Site B03-0	48-51-45N 44-19-05E	UR 0235-16	SA-2, fan			25X1
14	Volgograd SAM Site B27-0	48-10-15N 44-10-00E	UR 0235-21	SA-2, dairy			25X1
15	Volgograd SAM Site B21-0	48-27-00N 44-16-15E	UR 0235-21	SA-2, fan			25X1
16	Volgograd SAM Support Facility	48-28-30N 44-30-00E	UR 0235-21	Type I (rectangular)			25X1
17	Volgograd SAM Site C17-0	48-17-00N 44-38-00E	UR 0235-21	SA-2, dairy			25X1
18	Volgograd SAM Site B13-0	48-26-30N 44-40-30E	UR 0235-22	SA-2, link			25X1
19	Volgograd SAM Site B09-0	48-42-30N 44-33-10E	UR 0235-22	SA-2, link			25X1
E Kapustin Yar/Vladimirovka SAM Defense (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)							
20	KY/Vlad MTC SAM Site B50-0	48-17-00N 45-14-00E	UR 0235-22	SA-2, star			25X1
21	KY/Vlad MTC SAM Site B12-0	48-03-00N 45-25-00E	UR 0235-22	SA-2, star			25X1
22	Abkhazinka SAM Site A03-0	48-21-55N 46-13-00E	UR 0235-22	SA-2, star			25X1
23	Abkhazinka SAM Site A04-0	48-24-00N 46-13-00E	UR 0235-22	SA-2, probable star			25X1
24	Abkhazinka SAM Site A06-0	48-04-00N 46-13-00E	UR 0235-22	SA-2, configuration undetermined			25X1 This unactivated site is adjacent to SAM Site A04-0. It was formerly carried as a Category 3 SA-0 SAM site. This former site area was unactivated and completely overgrown when work on [redacted] began.
F KY/Vlad MTC SAM Site B09-0							
25	KY/Vlad MTC SAM Site B09-0	48-42-00N 46-16-00E	UR 0235-20	SA-2, star			25X1
26	KY/Vlad MTC SAM Launch Complex	48-48-00N 45-43-00E	UR 0235-20	SAM R & D and training center			25X1
27	KY/Vlad MTC SAM Site C30-0	48-18-15N 45-30-15E	UR 0235-17	SA-3, configuration A			25X1
28	KY/Vlad MTC SAM Site D11-0	48-12-30N 45-16-30E	UR 0235-22	SA-2, configuration A			25X1
29	KY/Vlad MTC SAM Site B11-0	48-19-10N 45-26-15E	UR 0235-17	SA-3, configuration A			25X1

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Table 11. SAM Installations on WAC 230

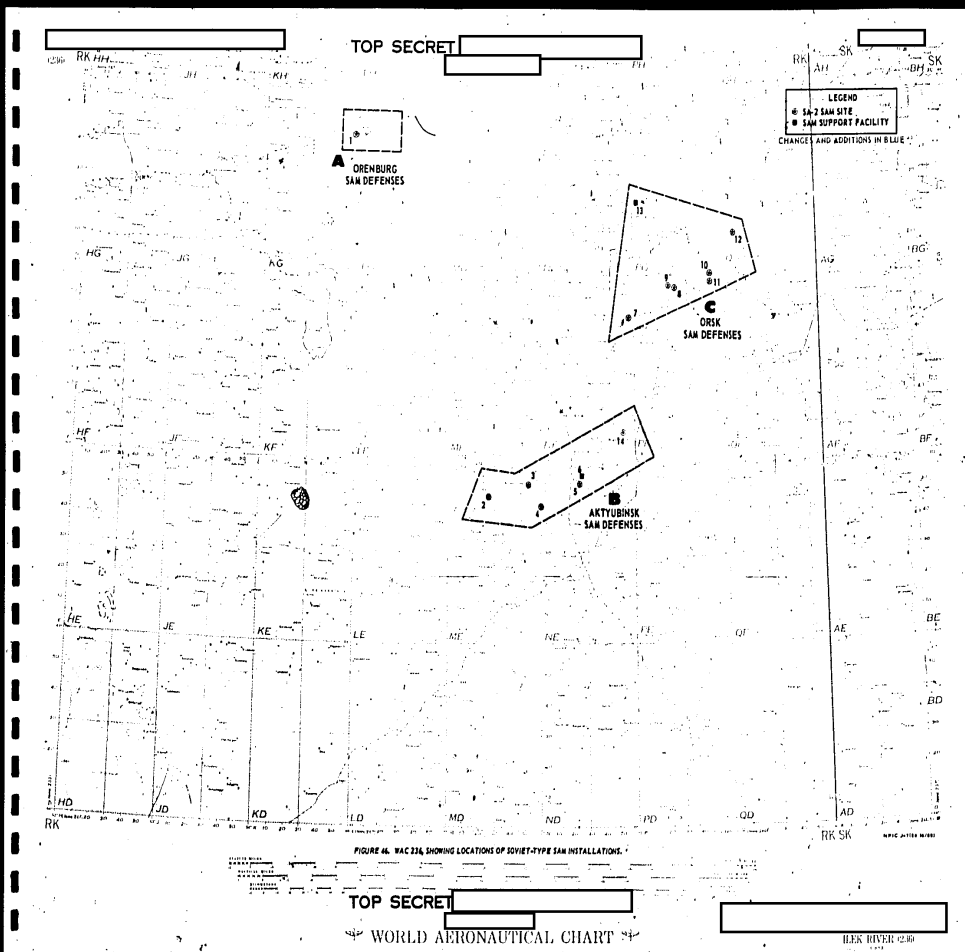
Item	Name, Site Designator, & BE No.	Coordinates	Country & Map Ref.	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A Orenburg SAM Defenses (in defense of major transportation, industrial, and military complexes in southern Ural region: locomotive, vehicle, and tractor parts; ammunition, tools, machinery, and airframes)							
1	Orenburg SAM Site A25-2	51-45-00N 54-58-25E	UR 0258-2	SA-2, configuration undetermined			25X1 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 E23-2	49-46-50N 56-38-50E	UR 0258-13	SA-2, configuration undetermined			25X1 The launch positions at this site are reversed, but no service road configuration is visible. There are no site support buildings.
3	Aktyubinsk SAM Site C23-2	49-52-40N 56-39-50E	UR 0258-13	SA-2, configuration undetermined			
4	Aktyubinsk SAM Site D20-2	49-45-00N 57-00-00E	UR 0258-13	SA-2, configuration undetermined			
5	Aktyubinsk SAM Site C17-2	49-55-20N 57-24-30E	UR 0258-13	SA-2, star			
6	Aktyubinsk SAM Support Facility	49-55-00N 57-25-00E	UR 0258-14	Type II (square)			
14	Aktyubinsk SAM Site C11-2	50-09-00N 57-52-50E	UR 0258-14	SA-2, configuration undetermined			25X1
C Orsk SAM Defenses (in defense of Orsk: nickel combine, PUL refining and storage facilities, heavy machinery plant, and metallurgical combine at Novo Trutsk)							
7	Orsk SAM Site C25-2	50-46-30N 57-07-10E	UR 0258-9	SA-2, probable star			25X1 This site is unactivated.
8	Orsk SAM Site B29-2	50-57-30N 56-25-00E	UR 0258-9	SA-2, star			
9	Orsk SAM Site B20A-2	50-57-30N 56-25-00E	UR 0258-9	SA-2, configuration undetermined			
10	Orsk SAM Site B15-2	51-00-10N 56-56-35E	UR 0258-9	SA-2, probable star			25X1 This site is unactivated.
11	Orsk SAM Site B15A-2	51-00-10N 56-56-35E	UR 0258-9	SA-2, configuration undetermined			
12	Orsk SAM Site C10-2	51-14-20N 59-06-40E	UR 0258-4	SA-2, probable star			
13	Orsk SAM Support Facility	51-24-00N 59-09-30E	UR 0258-4	Type II (square)			

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Table 4: SAM Installations on WAC 238

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Apparent	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."

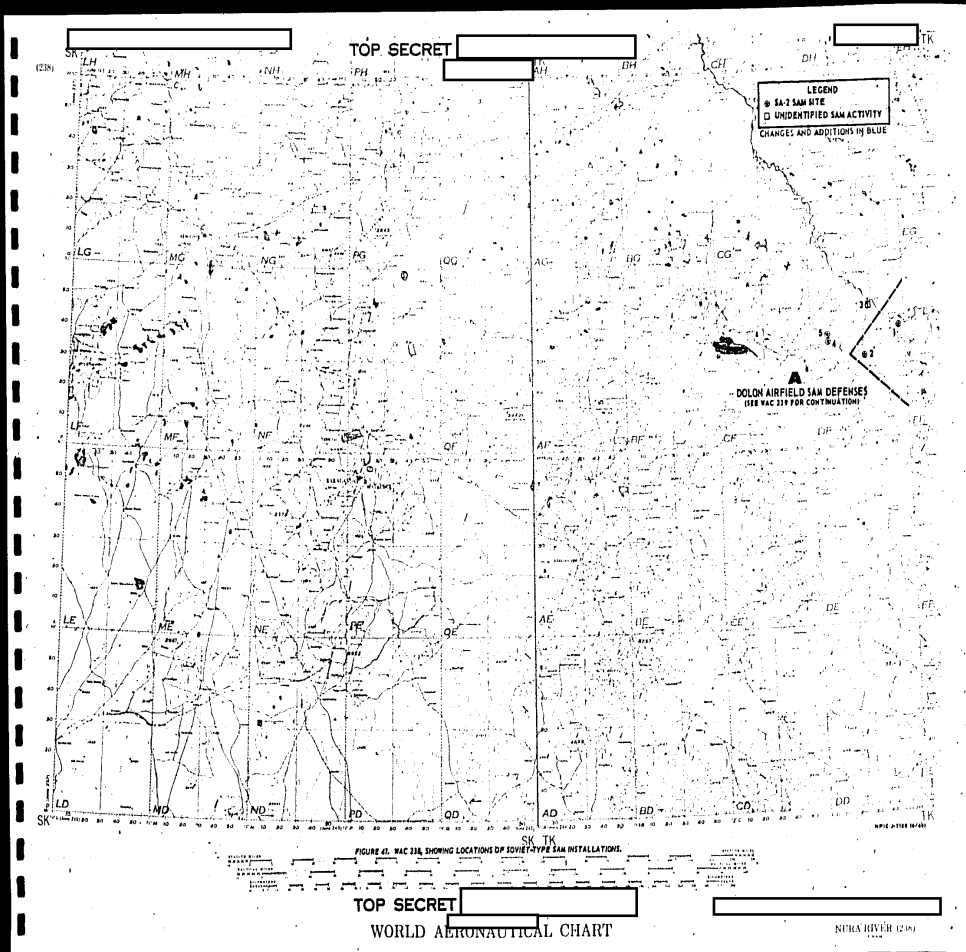
	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
3	Competition Undersized Activity	10-48-16N 76-41-00E	UR 0238-10	Configuration undetermined; site name [Redacted]	[Redacted]	[Redacted]	[Redacted]
C	Defensive Role Undetermined	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
4	Defcon SAM Site D284-2	50-54-43N 76-11-40E	UR 0238-10	SA-2, configuration undetermined	[Redacted]	[Redacted]	[Redacted]
5	Defcon SAM Site D28-2	50-54-43N 76-11-00E	UR 0238-10	SA-2, probable link	[Redacted]	[Redacted]	[Redacted]

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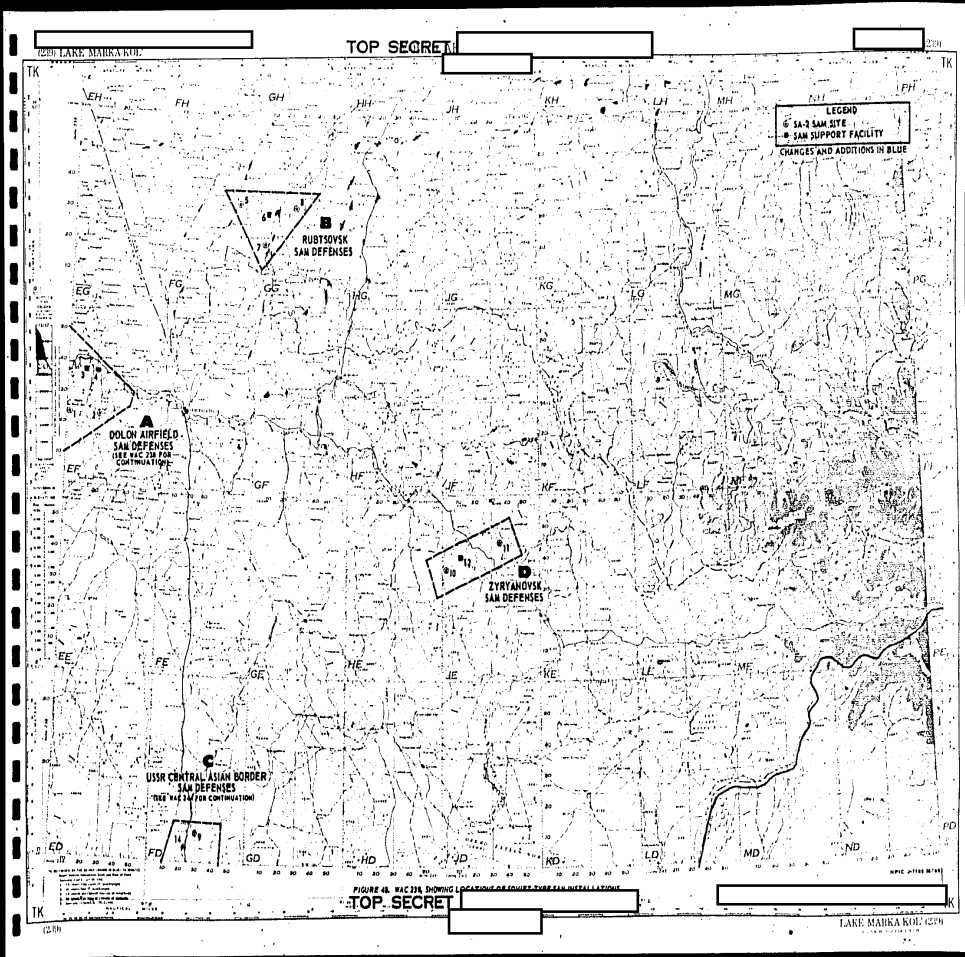
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Table 40. SAM Installations on WAO #11

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Negated	Remarks
A USSR Central Asian Border SAM Defenses (in defense of the central Asian border of the USSR)							
1	Sary Ozek SAM Site D212-2	[REDACTED]	44-11-15N 77-37-10E	UR 0214-22 SA-2, link	[REDACTED]	[REDACTED]	<p>Also defends Sary Ozek IRBM Complex. Also defends Sary Ozek IRBM Complex. Also defends Sary Ozek IRBM Complex. Also defends Sary Ozek IRBM Complex. A secured vehicle [REDACTED] it contained 20 missile transporters, 13 transporter-trailers, 6 prime movers, 2 loaded missile transporters, and numerous canisters. The installation is similar to several SAM assembly areas seen in Cuba.</p>
2	Sary Ozek SAM Site A18-2	[REDACTED]	44-21-00N 78-09-00E	UR 0214-22 SA-2, link	[REDACTED]	[REDACTED]	
3	Sary Ozek SAM Site D28-2	[REDACTED]	44-26-05N 77-01-53E	UR 0214-22 SA-2, probable link	[REDACTED]	[REDACTED]	
4	Sary Ozek SAM Site D34-2	[REDACTED]	44-37-00N 77-57-30E	UR 0214-22 SA-2, link	[REDACTED]	[REDACTED]	
5	Sary Ozek SAM Support Facility	[REDACTED]	44-37-30N 77-57-30E	UR 0214-22 Type II (request)	[REDACTED]	[REDACTED]	
6	Ush-Tobe SAM Site D18-2	[REDACTED]	44-58-58N 77-56-10E	UR 0214-17 SA-2, link	[REDACTED]	[REDACTED]	<p>This unactivated site is collocated with Atkogyay SAM Site B02-2. It was previously carried as a Category 2 SA-0 SAM Site.</p>
7	Ush-Tobe SAM Site A02-2	[REDACTED]	43-23-40N 78-01-45E	UR 0214-17 SA-2, link	[REDACTED]	[REDACTED]	
8	Ush-Tobe SAM Site D06-2	[REDACTED]	43-34-10N 78-02-40E	UR 0214-18 SA-2, link	[REDACTED]	[REDACTED]	
9	Lopyy SAM Site C21-2	[REDACTED]	43-25-40N 78-49-15E	UR 0214-13 SA-2, link	[REDACTED]	[REDACTED]	
10	Lopyy SAM Site A05-2	[REDACTED]	46-14-45N 78-37-10E	UR 0214-13 SA-2, link	[REDACTED]	[REDACTED]	
11	Abkhaly SAM Site A10-2	[REDACTED]	46-31-45N 79-18-00E	UR 0214-8 SA-2, link	[REDACTED]	[REDACTED]	
12	Atkogyay SAM Site A19-2	[REDACTED]	46-49-05N 79-35-50E	UR 0214-8 SA-2, configuration undetermined	[REDACTED]	[REDACTED]	
13	Atkogyay SAM Site B02-2	[REDACTED]	47-08-45N 79-44-05E	UR 0214-8 SA-2, link	[REDACTED]	[REDACTED]	
14	Atkogyay SAM Site B02B-2	[REDACTED]	47-09-40N 79-49-30E	UR 0214-8 SA-2, configuration undetermined	[REDACTED]	[REDACTED]	
15	Atkogyay SAM Site B02A-2	[REDACTED]	47-10-55N 79-49-55E	UR 0214-8 SA-2, link	[REDACTED]	[REDACTED]	
16	Ayagar SAM Site A19-2	[REDACTED]	47-47-30N 80-29-30E	UR 0214-4 SA-2, link	[REDACTED]	[REDACTED]	

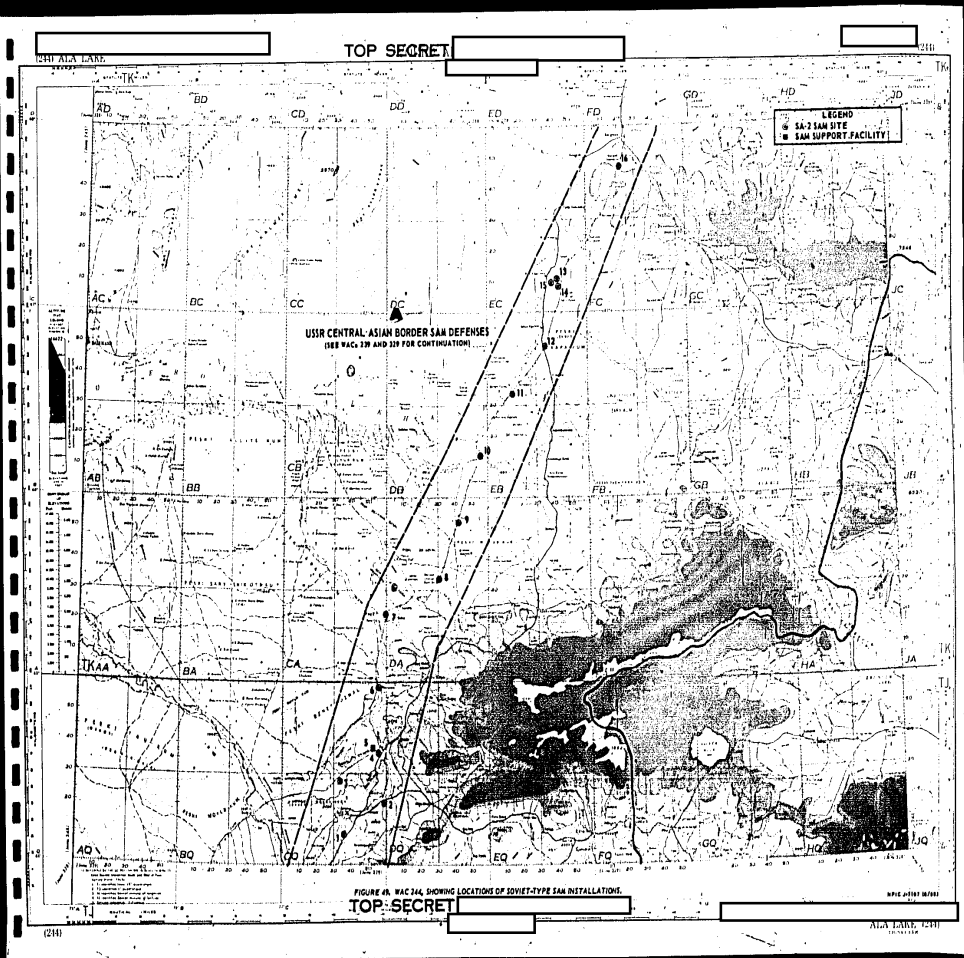
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Table 47. SAM Installations on PAC ILS

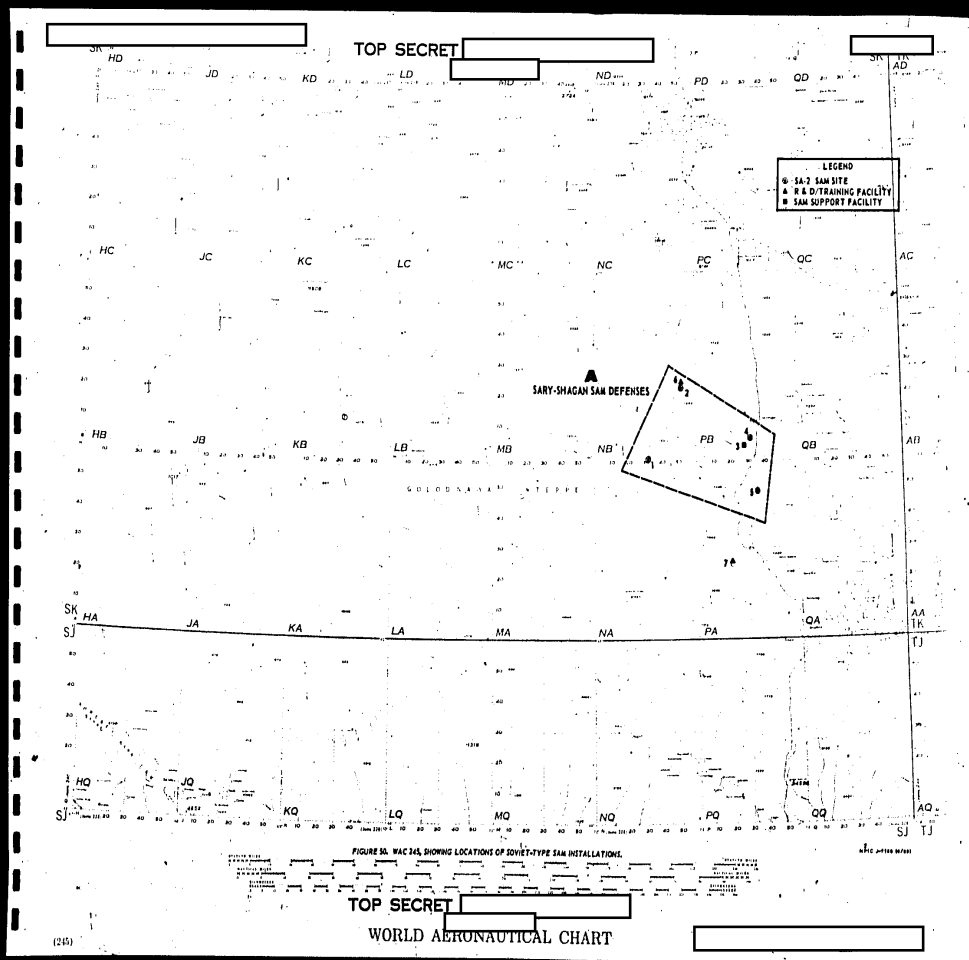
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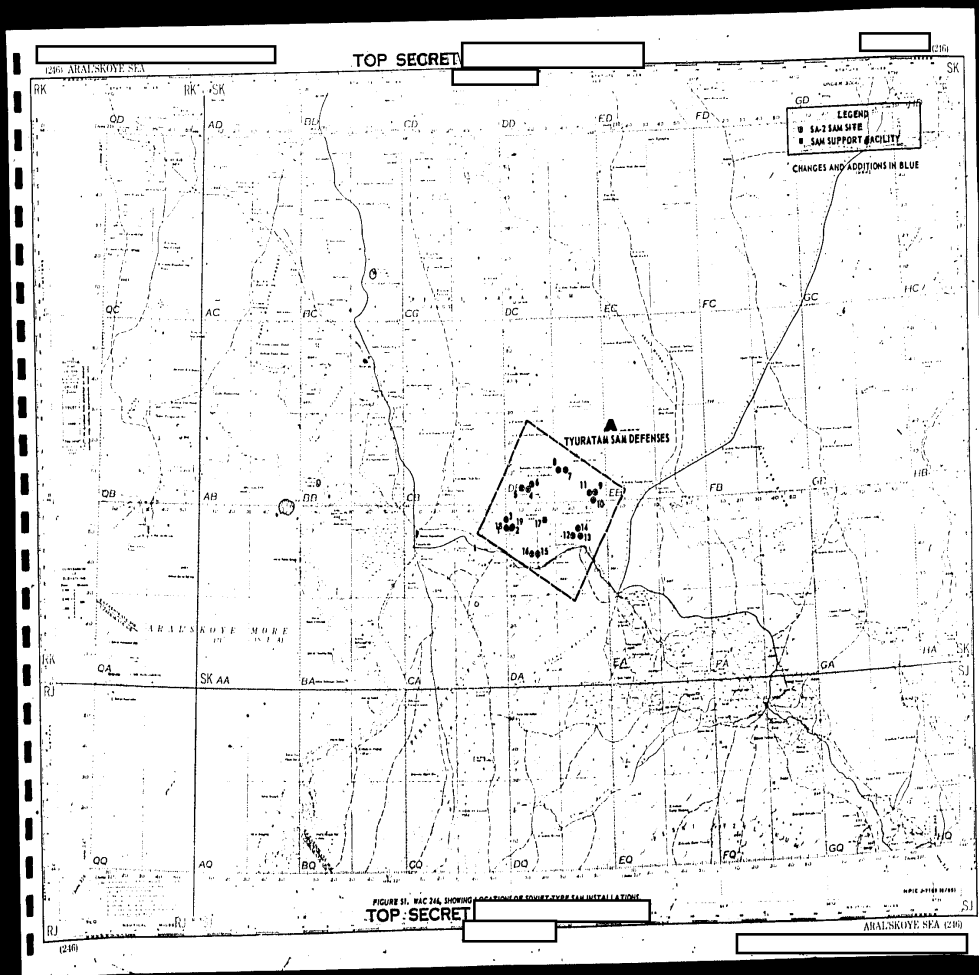
Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appearance	Mission & Date Installation Negated	Remarks
A Sary-Shagan SAM Defenses (in defense of Sary-Shagan Antimissile Test Center--SSATC. (Rather than forming an actual defense complex, these sites consist of a group of point defenses required by the extensive area covered by the Sary-Shagan facilities)							
1	SSATC SAM Site B11-3 25X1	45-59-30N 73-31-40E	UR 0245-14	SA-3, star			This site is located at Launch Complex D, 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 Film 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 D14-3 25X1	46-23-10N 73-31-30E	UR 0245-14	SA-3, star			
3	SSATC SAM Support Facility 25X1	46-03-10N 73-28-00E	UR 0245-15	Type II (square)			
4	SSATC SAM Site A55-3 25X1	46-03-15N 73-31-10E	UR 0245-15	SA-3, star			
5	SSATC SAM Site B18-3 25X1	45-48-00N 73-33-45E	UR 0245-15	SA-3, star			
6	SSATC, Launch Complex A 25X1	46-23-00N 73-32-00E	UR 0245-14	See remarks			
B Operational Role Undetermined 25X1							
7	SSATC SAM Training Center 25X1	45-53-00N 73-30-00E	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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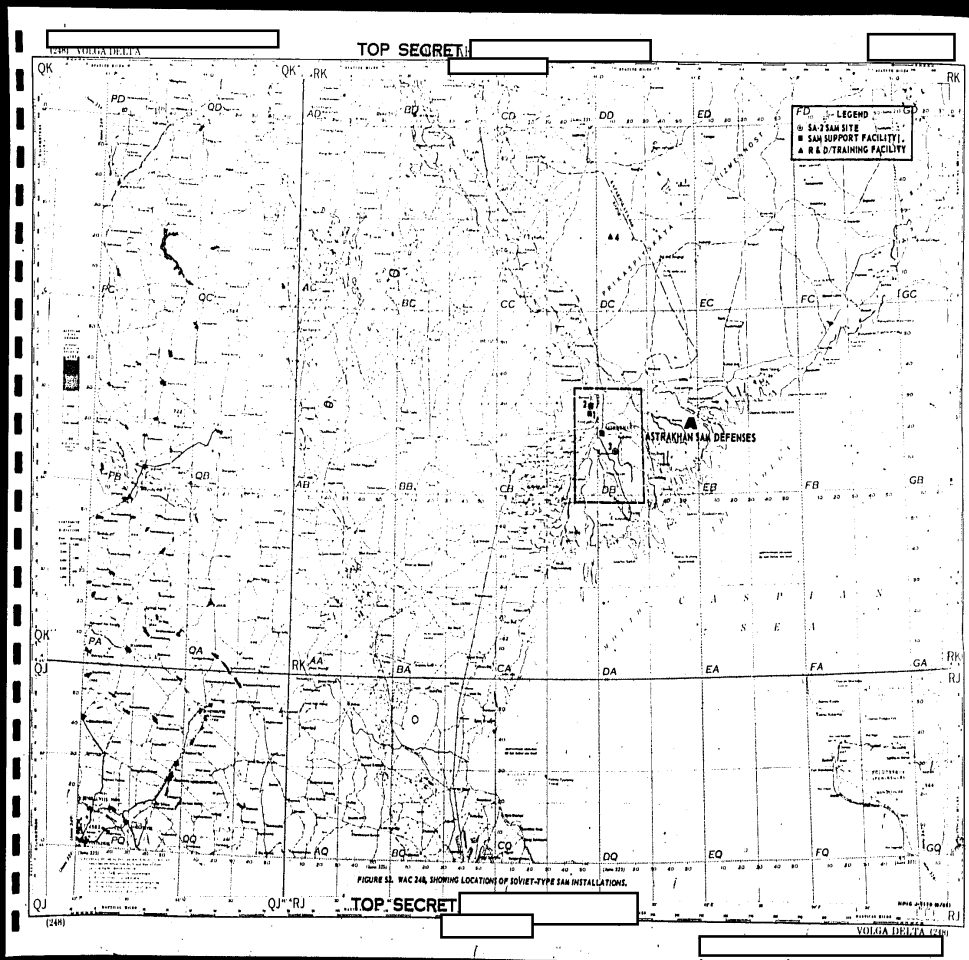
Table 19. SAM Installations on WAC #18

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Suggested	Remarks
25X1							
A Astrakhan SAM Defense (in defense of major Caspian Sea port with shipyards, strategic transportation, and POL storage facilities)							
1	Astrakhan SAM Support Facility	46-26-00N 47-06-00E	UR 0216-9	Type II (square)			
2	Astrakhan SAM Site A51-2	46-26-00N 47-37-10E	UR 0216-9	SA-2, link			
3	Astrakhan SAM Site A11-2	46-14-30N 46-11-02E	UR 0216-14	SA-2, link			25X1
B Kirov SAM Training Center (no defense role--fulfills a training function only)							
4	Kirov SAM Training Center	47-21-00N 46-06-00E	UR PCL 816B	See remarks			The facilities at this installation consist of 9 SA-2 sites (3 fans, 1 link, 1 probable link, 2 undetermined), a Type I (rectangular) SAM support facility, a landing site, 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.
25X1							

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Table 50. SAM Installations on WAC 210

Item	Name, Site Designator, & DE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
<i>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 2 - "Defensive Role Undetermined."</i>							
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)							
1	Zaporozhye SAM Site B10-2	[REDACTED]	41-52-33N 35-21-50E	UR 0210-1	SA-2, star		[REDACTED]
2	Zaporozhye SAM Support Facility	[REDACTED]	41-44-40N 35-15-50E	UR 0210-1	Type II (square)		[REDACTED]
3	Zaporozhye SAM Site B10-4	[REDACTED]	41-58-35N 35-18-15E	UR 0210-1	SA-2, star		[REDACTED]
B Berdyansk SAM Defenses (in defense of Berdyansk)							
4	Berdyansk SAM Site A20-2	[REDACTED]	48-41-30N 36-41-45E	UR 0210-7	SA-2, star		[REDACTED]
C Zhdanov SAM Defenses (in defense of Zhdanov: a major industrial and port complex on the Azov Sea)							
5	Zhdanov SAM Site B23-2	[REDACTED]	46-56-10N 37-20-00E	UR 0210-7	SA-2, star		[REDACTED]
6	Zhdanov SAM Site B36-2	[REDACTED]	47-16-45N 37-31-40E	UR 0210-2	SA-2, star		[REDACTED]
7	Zhdanov SAM Site B09-2	[REDACTED]	47-01-45N 37-51-00E	UR 0210-7	SA-2, star		[REDACTED]
8	Zhdanov SAM Support Facility	[REDACTED]	47-06-40N 37-27-10E	UR 0210-7	Type II (square)		[REDACTED]
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)							
9	Donetsk SAM Site B22-2	[REDACTED]	47-47-00N 37-31-20E	UR 0210-2	SA-2, star		[REDACTED]
10	Donetsk SAM Support Facility	[REDACTED]	47-55-00N 37-47-15E	UR 0210-2	Type I (rectangular)		[REDACTED]
11	Donetsk SAM Site B16-2	[REDACTED]	47-48-30N 37-30-45E	UR 0210-2	SA-2, star		[REDACTED]
E Taganrog SAM Defenses (in defense of Taganrog: industrial production-airframes, munitions, metallurgy; and transportation center)							
12	Taganrog SAM Site A01-2	[REDACTED]	47-10-10N 39-00-20E	UR 0210-3	SA-2, star		[REDACTED]
13	Taganrog SAM Site B25-2	[REDACTED]	47-10-20N 38-53-40E	UR 0210-8	SA-2, star		[REDACTED]
F Rostov SAM Defenses (in defense of Rostov-a major industrial production center: aircraft assembly and machinery, POL storage, port and rail facilities)							
14	Rostov SAM Site B29-2	[REDACTED]	47-17-35N 39-28-50E	UR 0210-3	SA-2, link		[REDACTED]
15	Rostov SAM Support Facility	[REDACTED]	47-17-30N 39-48-20E	UR 0210-3	Type I (rectangular)		[REDACTED]
16	Rostov SAM Site A02-2	[REDACTED]	47-18-00N 39-52-05E	UR 0210-4	SA-2, star		[REDACTED]
17	Rostov SAM Site B18-2	[REDACTED]	47-01-55N 39-53-15E	UR 0210-3	SA-2, link		[REDACTED]
18	Rostov SAM Site B21-2	[REDACTED]	47-05-15N 39-36-35E	UR 0210-3	SA-2, star		[REDACTED]
19	Rostov SAM Site B24-2	[REDACTED]	47-02-00N 39-28-30E	UR 0210-8	SA-2, configuration undetermined		[REDACTED]
G USSR Southern Border SAM Defenses (in defense of the southern border of the USSR: major naval base and POL storage at Foodiyya; naval POL storage, and rail facilities at Novorossiysk and Tuapse; air defense sector and fighter division headquarters at Krymski; iron, steel, coke-chemical plants, POL storage, major air base with special weapons storage, air defense sector headquarters, and naval facilities at Kerch)							
20	Foodiyya SAM Site B24-2	[REDACTED]	44-49-40N 35-03-15E	UR 0210-16	SA-2, star		[REDACTED]
21	Foodiyya SAM Site A16-2	[REDACTED]	45-00-40N 35-29-50E	UR 0210-16	SA-2, star		[REDACTED]
22	Foodiyya SAM Site C02-2	[REDACTED]	45-18-40N 35-52-05E	UR 0210-16	SA-2, star		[REDACTED]
23	Kerch SAM Site B20-2	[REDACTED]	45-07-00N 36-31-00E	UR 0210-16	SA-2, star		[REDACTED]
24	Anapa SAM Site C03-2	[REDACTED]	43-10-10N 37-01-40E	UR 0210-17	SA-2, configuration undetermined		[REDACTED]

*These sites may represent part of the secondary barrier defense of the southern border of the USSR.
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Table 50. SAM Installations on WAC 510 (Continued)

Item	Name, Site Designation, & IRE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
22	Anapa SAM Site A07-0	44-54-20N 37-03-20E	UR 0210-17	SA-2, star			25X1
23	Novoselsk SAM Site A10-2	44-40-10N 37-47-00E	UR 0210-22	SA-2, star			
24	Novoselsk SAM Support Facility	44-40-15N 37-46-45E	UR 0210-22	Type II (square)			
25	Novoselsk SAM Site B13-2	44-52-20N 38-06-00E	UR 0210-22	SA-2, star			
26	Tupape SAM Site C25-2	44-18-50N 38-45-00E	UR 0210-23	SA-2, star			
27	Tupape SAM Site A29-2	44-05-50N 38-02-00E	UR 0210-23	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.
31	Frudchya SAM Support Facility	45-05-00N 35-11-10E	UR 0210-10	Type II (square)			25X1
35	Frudchya SAM Site B09-2	45-03-40N 35-30-10E	UR 0210-16	SA-2, configuration undetermined			
Maykop MRBM Complex SAM Defenses (in defense of Maykop MRBM Complex)							
28	Maykop MRBM Complex SAM Site B19-4	44-50-50N 39-41-10E	UR 0210-25	SA-2, star			25X1
29	Maykop MRBM Complex SAM Site A13-2	44-23-40N 40-00-10E	UR 0210-24	SA-2, star			
36	Maykop MRBM Complex SAM Site C30-2	44-37-40N 39-29-45E	UR 0210-25	SA-2, star			
Yevlakh SAM Site C19-2							
Yevlakh SAM Site A18-2							
Yevlakh SAM Site B17-2							
Yevlakh SAM Site C17-2							
Yevlakh SAM Site B14-2							
Armasir SAM Site A29-2							
Novoselsk SAM Site B13-2							
Defensive Role Undetermined							
41	Melipol SAM Site D06-2	47-06-50N 33-59-00E	UR 0210-10	SA-2, configuration undetermined			25X1

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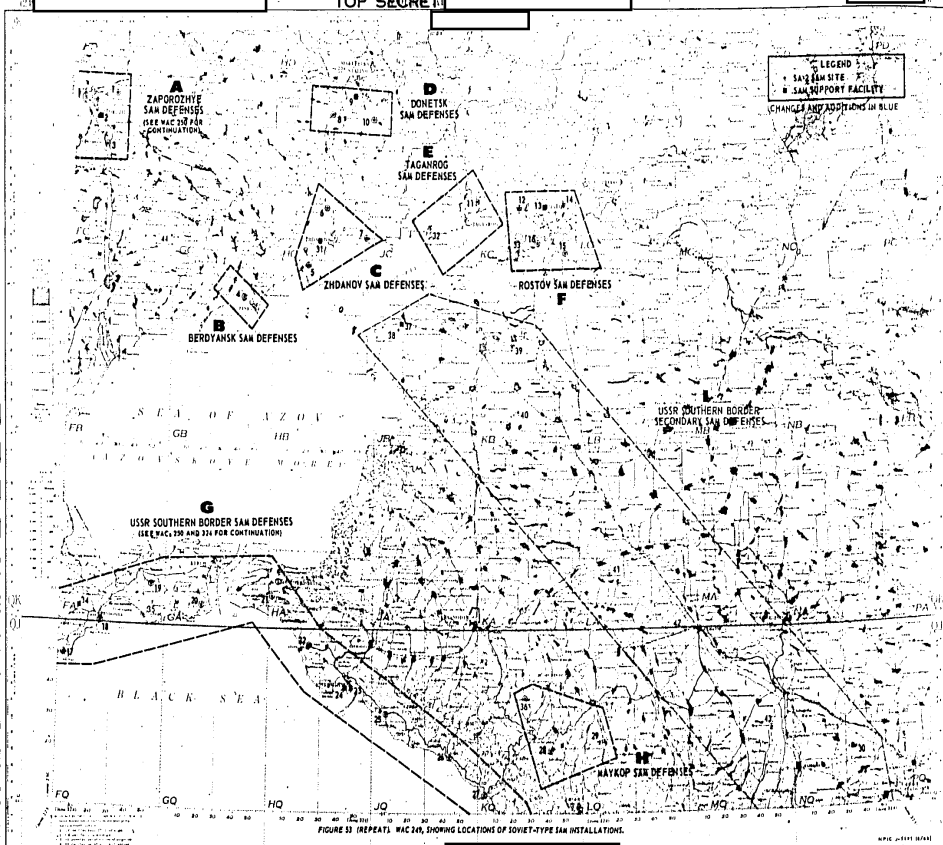


FIGURE 53 (REPEATS PAC 240, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS)

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Table 51. SSM Installations on WAC 250

Item	Name, Site Designator, & DE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Suggested	Remarks
<p>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."</p> <p>A Odessa SAM Defenses (in defense of the southern border of the USSR between Kishinev and Rumania-Polod-ly)</p>							
25X1	1 Kishinev SAM Site B19-2	47-11-00N 29-38-20E	UR 0250-7	SA-2, link			25X1
25X1	2 Kishinev SAM Site B22-2	46-49-20N 29-36-13E	UR 0250-7	SA-2, star			
25X1	3 Kishinev SAM Support Facility	46-57-30N 29-52-30E	UR 0250-7	Type II (square)			
25X1	4 Kishinev SAM Site B18-2	46-54-00N 29-04-00E	UR 0250-7	SA-2, star			
25X1	5 Kishinev SAM Site B15-2	47-09-00N 29-52-00E	UR 0250-1	SA-2, configuration undetermined			
<p>B Baltia SAM Defenses (in defense of Baltia regional military storage installation at [redacted])</p>							
25X1	6 Baltia Military Complex SAM Site B17-2	47-56-50N 29-36-20E	UR 0250-2	SA-2, configuration undetermined			25X1
25X1	7 Baltia SAM Support Facility	47-44-00N 29-37-30E	UR 0250-2	SA-2, star			
25X1	8 Kotovsk SAM Site B11-2	47-41-00N 30-00-00E	UR 0250-2	SA-2, star			
<p>C Pervomayak SAM Defenses (in defense of Pervomayak RBM Complex)</p>							
25X1	9 Pervomayak SAM Site B21-2	47-49-00N 30-41-00E	UR 0250-4	SA-2, star			25X1-
25X1	10 Pervomayak SAM Site B14-2	47-50-10N 31-11-00E	UR 0250-4	SA-2, star			
<p>D Belgorod-Dnestrovskiy SAM Defenses (in defense of Belgorod-Dnestrovskiy)</p>							
25X1	11 Belgorod-Dnestrovskiy SAM Site B13-2	48-07-25N 30-04-10E	UR 0250-12	SA-2, star			25X1
25X1	12 Belgorod-Dnestrovskiy SAM Support Facility	48-07-30N 30-04-10E	UR 0250-12	Type II (square)			
<p>E Odessa SAM Defenses (in defense of Odessa-major industrial and military center and important Black Sea port; shipyards; mining and agricultural machinery production; POL refinery; vehicle assembly plants; Odessa military district and air defense sector headquarters)</p>							
25X1	13 Odessa SAM Site A28-2	46-28-42N 30-29-30E	UR 0250-4	SA-2, star			25X1
25X1	14 Odessa SAM Support Facility	46-32-00N 30-29-00E	UR 0250-4	Type I (rectangular)			
25X1	15 Odessa SAM Site B13-2	46-39-20N 30-40-10E	UR 0250-4	SA-2, star			
25X1	16 Odessa SAM Site A26-2	46-33-41N 30-53-10E	UR 0250-4	SA-2, fan			
25X1	17 Odessa SAM Site A10-2	46-34-40N 30-33-00E	UR 0250-4	SA-2, configuration F			
25X1	18 Odessa SAM Site A19-2	46-29-13N 30-14-15E	UR 0250-4	SA-2, star			
25X1	19 Odessa SAM Site A18-2	46-21-55N 30-42-40E	UR 0250-13	SA-2, configuration F			
25X1	20 Odessa SAM Site A25-2	46-29-00N 30-29-10E	UR 0250-4	SA-2, configuration G			
25X1	21 Odessa SAM Site B16-2	46-33-25N 30-48-20E	UR 0250-4	SA-2, configuration G			
25X1	22 Odessa SAM Site B10-2	46-17-00N 30-38-20E	UR 0250-13	SA-2, configuration undetermined			
<p>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)</p>							
25X1	23 Nikolayev SAM Site B17-2	46-36-55N 31-14-35E	UR 0250-8	SA-2, star			25X1
25X1	24 Nikolayev SAM Site B15-2	46-07-00N 31-05-00E	UR 0250-8	SA-2, star			
25X1	25 Nikolayev SAM Support Facility	46-38-00N 31-09-00E	UR 0250-8	Type I (rectangular)			
25X1	26 Nikolayev SAM Site B19-2	46-38-00N 31-15-30E	UR 0250-8	SA-2, star			
25X1	27 Nikolayev SAM Site A16-2	46-48-15N 31-48-00E	UR 0250-9	SA-2, star			
<p>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)</p>							
25X1	28 Krivoy Rog SAM Site B24-2	47-50-00N 33-01-00E	UR 0250-4	SA-2, star			25X1

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

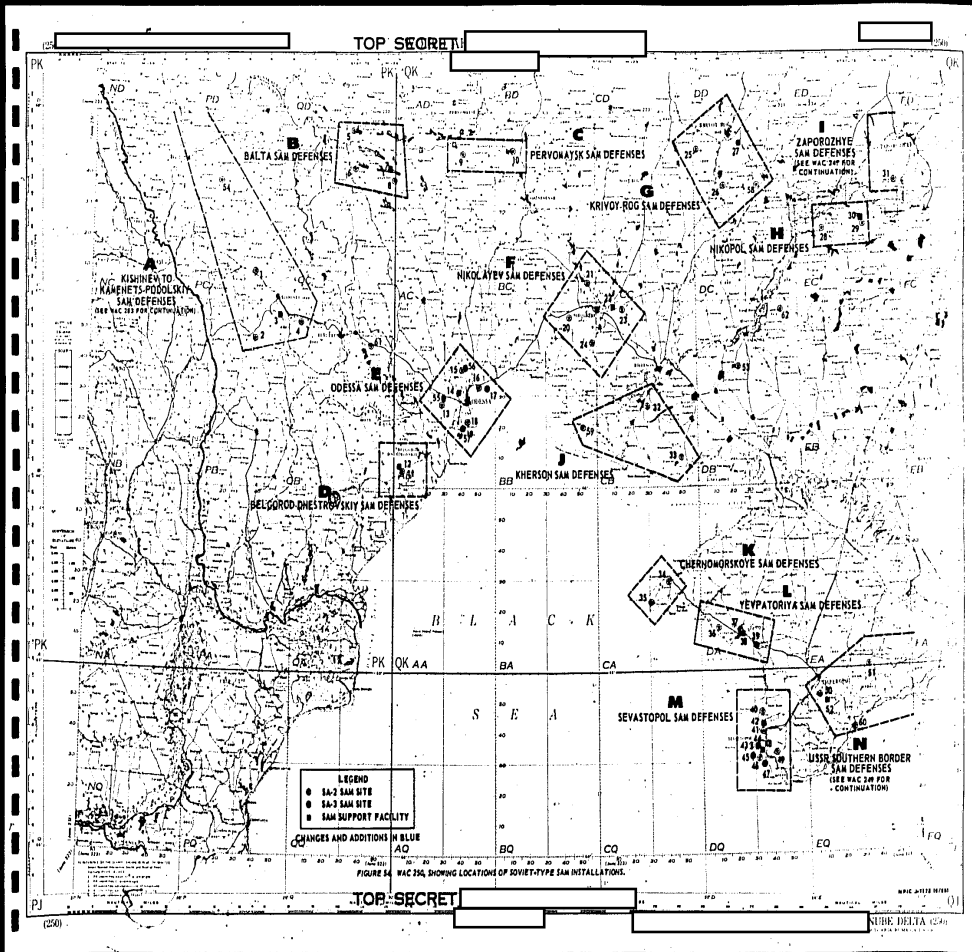
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Table 31. SAM Installations on WAC 250 (Continued)

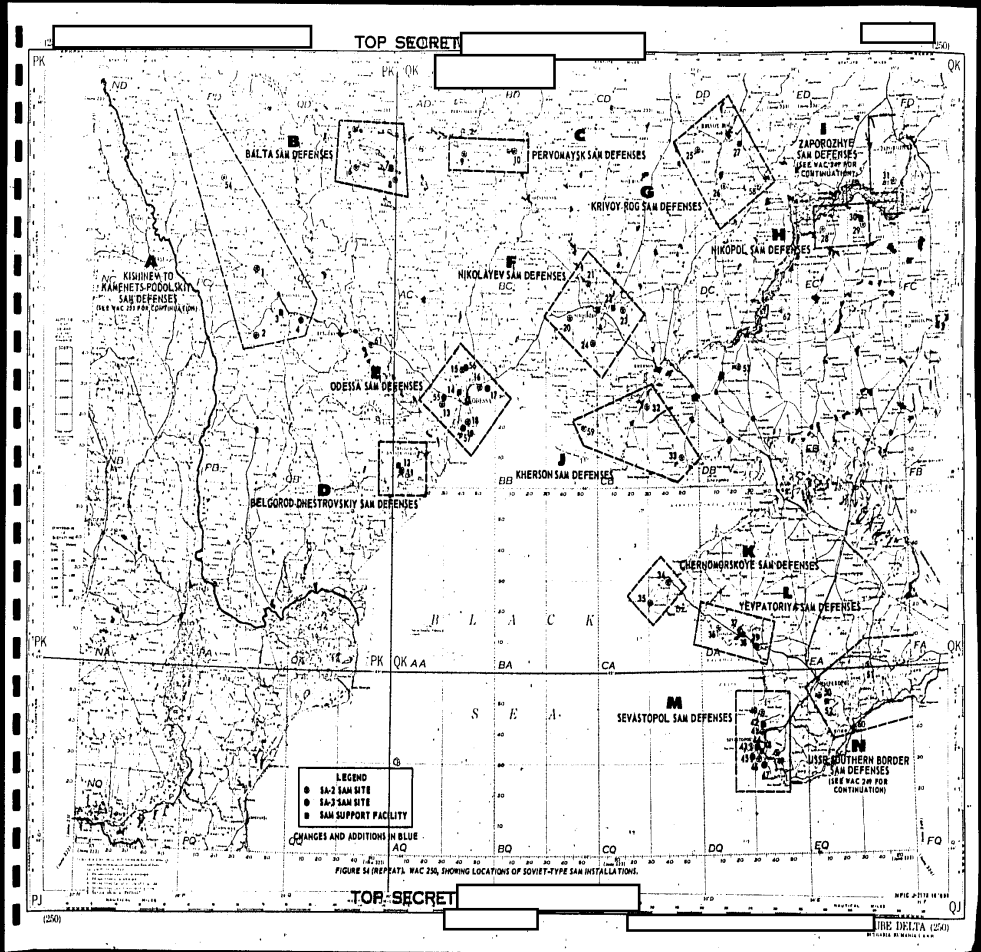
Item	Name, Site Designator, & BE No	Coordinates	County & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
25X1	26 Krivoy Bog SAM Site B19-2	47-26-45N 33-17-50E	UR 0250-4	SA-2, link			
25X1	27 Krivoy Bog SAM Support Facility	47-31-00N 33-26-50E	UR 0250-5	Type II (square)			
25X1	28 Krivoy Bog SAM Site B18-2	47-37-10N 33-33-40E	UR 0250-5	SA-2, configuration undetermined			25X1
Nikopol SAM Defenses (in defense of Nikopol; transportation and industrial center—pipe production and machine building)							
25X1	29 Nikopol SAM Site B22-2	47-23-15N 31-13-30E	UR 0250-5	SA-2, star			
25X1	29 Nikopol SAM Site B11-2	47-21-15N 31-28-20E	UR 0250-5	SA-2, star			
25X1	30 Nikopol SAM Support Facility	47-21-25N 31-38-10E	UR 0250-5	Type II (square)			
Zapozhkye SAM Defenses (in defense of Zapozhkye, a major industrial complex; an alumina plant, an aluminum plant, a large steel plant, and an aircraft engine plant)							
25X1	31 Zapozhkye SAM Site B21-2	47-38-20N 31-09-30E	UR 0250-5	SA-2, star			25X1
Kherson SAM Defenses (in defense of Kherson, a large industrial complex; agricultural machine production, PUL refinery, shipping)							
25X1	32 Kherson SAM Site B21-2	46-27-15N 32-28-30E	UR 0250-9	SA-2, star			25X1
25X1	33 Kherson SAM Site C17-2	46-29-20N 32-30-30E	UR 0250-11	SA-2, star			
25X1	34 Kherson SAM Site D24-2	46-28-10N 31-42-30E	UR 0250-14	SA-2, configuration undetermined			
Chernomorsk SAM Defenses (in defense of Chernomorskaya and Krasnodol'skoye cruise missile launch sites)*							
25X1	34 Chernomorsk SAM Site A29-2	45-29-14N 32-09-30E	UR 0250-10	SA-2, star			25X1
25X1	35 Chernomorsk SAM Site B24-2	45-23-15N 32-29-25E	UR 0250-10	SA-2, star			
Yevpatorya SAM Defenses (in defense of Yevpatorya; minor port complex, rail facilities, PUL storage, and a space tracking facility)*							
25X1	36 Yevpatorya SAM Site B30-2	45-15-10N 33-09-00E	UR 0250-10	SA-2, star			
25X1	37 Yevpatorya SAM Site U02-2	45-13-10N 33-22-30E	UR 0250-10	SA-2, probable star			25X1
25X1	38 Yevpatorya SAM Support Facility	45-17-50N 33-23-00E	UR 0250-10	Type II (square)			
25X1	39 Sakh SAM Site A29-2	45-08-10N 33-31-00E	UR 0250-20	SA-2, star			
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 PUL 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)*							
25X1	40 Sevastopol SAM Site B01-2	44-47-00N 33-32-45E	UR 0250-25	SA-2, star			
25X1	41 Sevastopol SAM Site A01-2	44-41-55N 33-33-23E	UR 0250-25	SA-2, star			25X1
25X1	42 Sevastopol SAM Site A03-2	44-42-25N 33-33-10E	UR 0250-25	SA-2, configuration F			
25X1	43 Sevastopol SAM Site A27-2	44-36-30N 33-29-43E	UR 0250-25	SA-2, star			
25X1	44 Sevastopol SAM Site A27-3	44-35-15N 33-35-30E	UR 0250-25	SA-3, configuration F			
25X1	45 Sevastopol SAM Site A23-2	44-32-30N 33-28-00E	UR 0250-25	SA-3, probable configuration F			
25X1	46 Sevastopol SAM Site A19-2	44-31-35N 33-31-00E	UR 0250-25	SA-2, star			
25X1	47 Sevastopol SAM Site A17-2	44-30-00N 33-31-10E	UR 0250-25	SA-3, configuration F			
25X1	48 Sevastopol SAM Support Facility	44-34-15N 33-22-33E	UR 0250-25	Type II (rectangle)			
25X1	49 Sevastopol SAM Site A15-2	44-34-15N 33-41-00E	UR 0250-25	SA-2, star			
USSR Southern Border SAM Defenses (in defense of the southern border of the USSR and specific targets, including Sinfropol MBBM Complex; Sinfropol area complex—jet fighter airfields, military camps, and a space tracking and communication facility; and Sarabuz airfield special weapons storage site)							
25X1	50 Sinfropol SAM Site A19-2	44-32-55N 34-03-23E	UR 0250-20	SA-2, star			
25X1	51 Sinfropol SAM Site C08-2	43-01-55N 34-31-00E	UR 0250-20	SA-2, star			
25X1	52 Sinfropol SAM Support Facility	44-30-00N 34-09-00E	UR 0250-20	Type II (square)			
25X1	53 Sinfropol SAM Site C14-2	44-41-55N 34-34-40E	UR 0250-25	SA-2, configuration irregular			25X1
Defensive Bole Undetermined							
25X1	54 Kherson SAM Site D08-2	46-30-00N 33-39-45E	UR 0250-9	SA-2, star			
25X1	55 Tiraspol SAM Site A19-2	46-48-30N 33-49-00E	UR 0250-7	SA-2, configuration undetermined			
25X1	56 Kakhovka SAM Site D06-2	46-37-40N 33-48-15E	UR 0250-10	SA-2, configuration undetermined			

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

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Table 22. SAM Installations on WAC 251

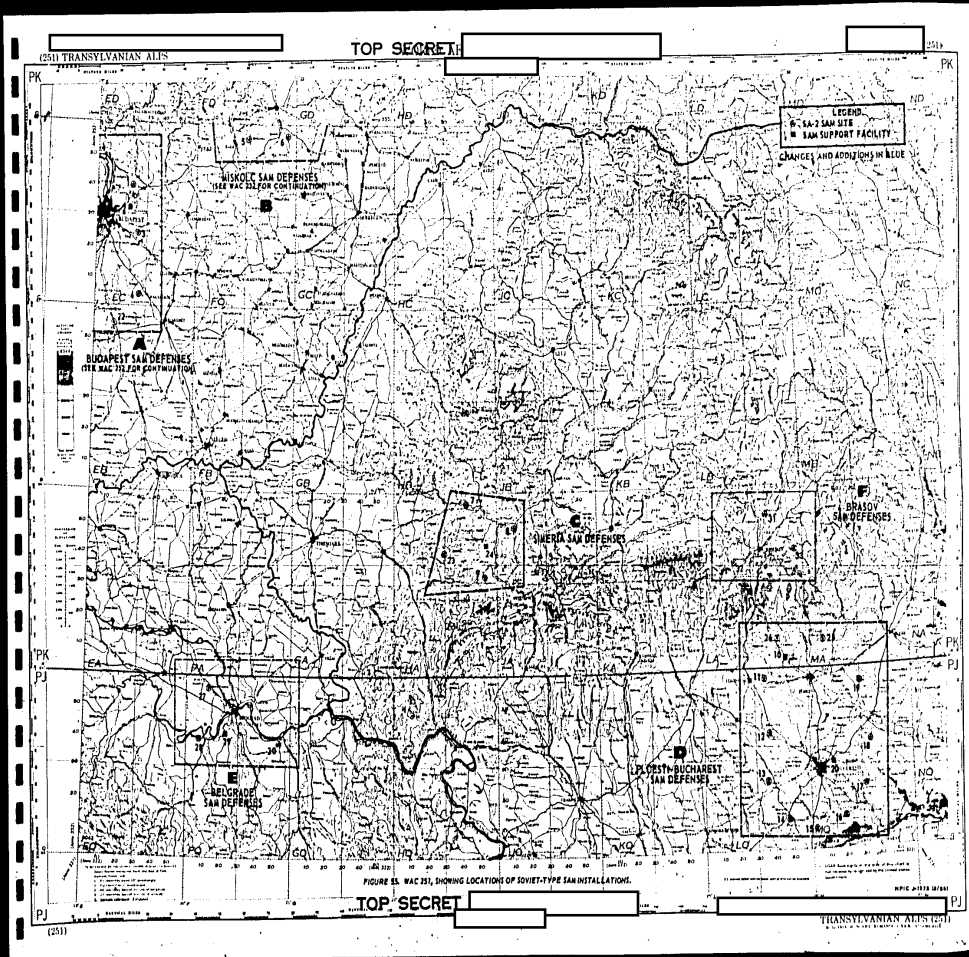
Item	Name, Site Designator, & DE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Requested	Remarks
A Budapest (Hungary) SAM Defenses (in defense of Budapest-capital of Hungary, and headquarters of Soviet Forces Hungary; numerous Hungarian and Soviet military installations, major river port and rail center, important industrial complex, including the largest shipyard in Hungary)							
25X1	1 Budapest SAM Site B05-2	47-30-54N 18-22-55E	HU 0251-1	SA-2, fan			
25X1	2 Budapest SAM Support Facility 1	47-32-12N 18-20-25E	HU 0251-1	Type I (rectangular)			
25X1	3 Budapest SAM Site B12-2	47-33-43N 18-25-53E	HU 0251-1	SA-2, fan			25X1
4	Budapest SAM Site C16-2	47-01-22N 18-26-52E	HU 0251-4	SA-2, fan			
21	Budapest SAM Site C18-2	47-30-40N 18-03-10E	HU 0251-1	SA-2, fan			
22	Budapest SAM Site D18-2	46-51-12N 18-13-21E	HU 0251-4	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)							
25X1	3 Miskolc SAM Site B23-2	47-55-42N 20-52-40E	HU 0251-1	SA-2, fan			
4	Miskolc SAM Site B15-2	47-56-20N 20-53-30E	HU 0251-0	SA-2, fan			
C Simeria (Romania) SAM Defenses (in defense of Simeria; large metallurgical combine, and large iron and machinery works)							
25X1	7 Simeria SAM Site B32-2	45-47-13N 22-45-56E	RU 0251-13	SA-2, configuration undetermined			25X1
8	Simeria SAM Site A11-2	45-48-50N 22-11-00E	RU 0251-13	SA-2, fan			
9	Simeria SAM Site B29-2	45-32-40N 22-34-20E	RU 0251-13	SA-2, fan			
20	Simeria SAM Site C25-2	45-40-00N 22-31-00E	RU 0251-13	SA-2, configuration irregular			
25X1	24 Simeria Probable SAM Support Facility	45-47-37N 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)							
25X1	10 Ploesti SAM Support Facility	45-03-41N 24-49-00E	RU 0251-20	Type I (rectangular)			
11	Ploesti SAM Site B25-2	44-54-13N 25-38-50E	RU 0251-20	SA-2 (see remarks)			The service roads at this site consist of a series of parallel roads, a configuration peculiar to Romania.
25X1	12 Bucharest SAM Site C31-2	44-39-00N 25-34-00E	RU 0251-25	SA-2, fan "			
13	Bucharest SAM Site C27-2	44-29-10N 25-31-43E	RU 0251-25	SA-2, fan			
14	Bucharest SAM Site B25-2	44-11-50N 25-45-30E	RU 0251-25	SA-2, fan			
15	Bucharest SAM Site B10-2	44-07-30N 25-03-43E	RU 0251-25	SA-2, fan			
16	Bucharest SAM Site B14-2	44-11-50N 25-20-40E	RU 0251-25	SA-2 (see remarks)			The service roads at this site consist of a series of parallel roads, a configuration peculiar to Romania.
17	Bucharest SAM Site B11-2	44-21-12N 24-32-25E	RU 0251-25	SA-2 (see remarks)			The service roads at this site consist of a series of parallel roads, a configuration peculiar to Romania.
18	Bucharest SAM Site C07-2	44-56-10N 24-34-00E	RU 0251-20	SA-2 (see remarks)			The service roads at this site consist of a series of parallel roads, a configuration peculiar to Romania.
25X1	19 Ploesti SAM Site C10-2	44-55-50N 25-30-00E	RU 0251-20	SA-2, fan			
25X1	20 Bucharest SAM Support Facility	44-29-00N 26-13-45E	RU 0251-25	Type II (square)			
25X1	25 Ploesti Probable SAM Site B31-2	45-10-25N 25-44-13E	RU 0251-20	SA-2, configuration irregular			
26	Ploesti SAM Site B03-2	45-09-25N 26-10-45E	HU 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)							
25X1	27 Belgrade SAM Site B30-2	44-38-00N 20-14-00E	YU 0251-16	SA-2, star			
28	Belgrade SAM Site B24-2	44-10-10N 20-10-30E	YU 0251-21	SA-2, star			
25X1	29 Belgrade Possible SAM Support Facility	44-41-00N 20-41-00E	YU 0251-21	Type II (square)			25X1
30	Belgrade SAM Site C18-2	44-34-40N 20-35-20E	YU 0251-22	SA-2, disk			
F Brasov (Romania) SAM Defenses (in defense of Brasov; a major transportation and industrial center; and military barracks and storage areas)							
25X1	31 Brasov SAM Site B02-2	45-31-20N 25-10-00E	RU 0251-15	SA-2, fan			
32	Brasov SAM Site A15-2	45-35-40N 25-21-30E	RU 0251-20	SA-2, configuration irregular			
25X1	33 Brasov SAM Site B09-2	45-39-20N 25-36-50E	RU 0251-15	SA-2, fan			25X1

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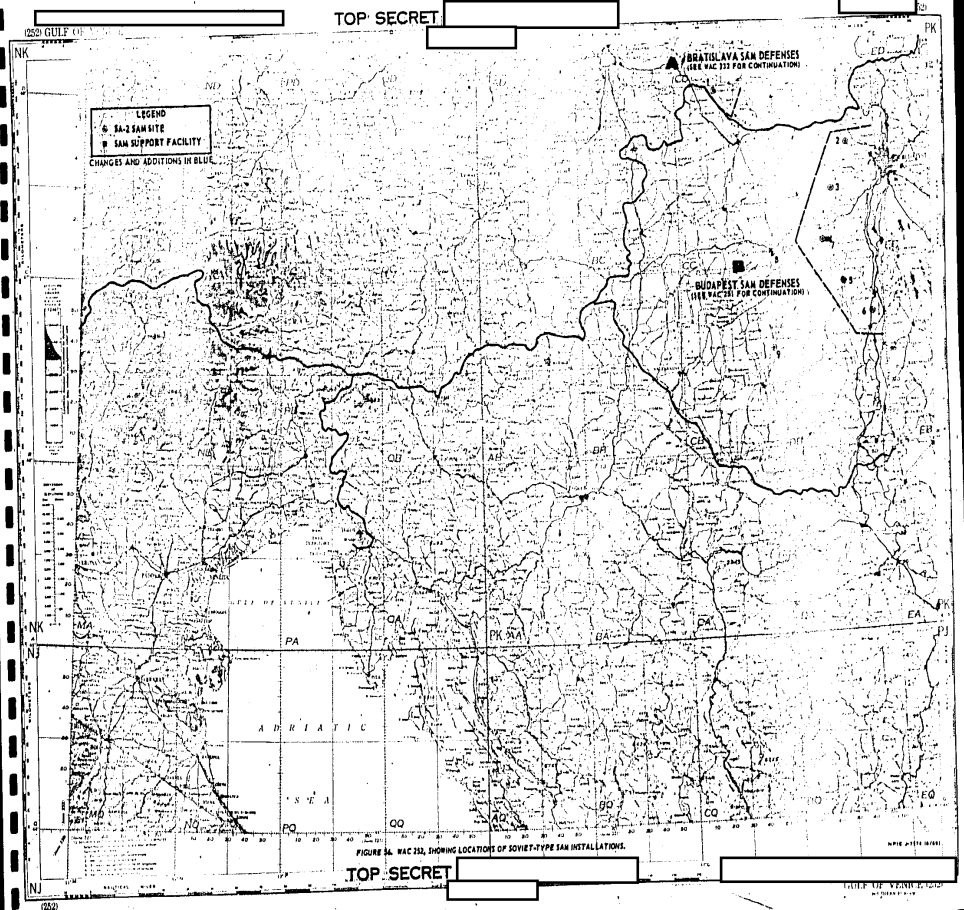
Table 53. SAM Installations on WAO 502

Item	Name, Site Designator, & DE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Negated	Remarks
<p>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."</p>							
<p>A Bratislava (Czechoslovakia) SAM Defenses (in defense of major military center with important industrial facilities, including PDL, explosives, wire and cable, and electrical engineering products)</p>							
1	Bratislava SAM Site B14-2, [redacted]	47-58-15N 17-28-00E	C2 0202-5	SA-2, fan	[redacted]	[redacted]	25X1
<p>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)</p>							
2	Budapest SAM Site B31-2, [redacted]	47-38-38N 18-44-18E	HU 0258-8	SA-2, fan	[redacted]	[redacted]	25X1
3	Budapest SAM Site C28-2, [redacted]	47-24-10N 18-33-06E	HU 0238-8	SA-2, fan	[redacted]	[redacted]	
4	Budapest SAM Site D24-2, [redacted]	47-50-47N 18-28-02E	HU 0259-8	SA-2, fan	[redacted]	[redacted]	
5	Dunaoldvar SAM Site B30-2, [redacted]	46-54-00N 18-38-03E	HU 0258-10	SA-2, fan	[redacted]	[redacted]	
6	Dunaoldvar SAM Site A19-2, [redacted]	46-44-00N 18-54-30E	HU 0258-10	SA-2, fan	[redacted]	[redacted]	
7	Budapest SAM Support Facility 2, [redacted]	47-09-15N 18-29-40E	HU 0252-10	Type 1 (rectangular)	[redacted]	[redacted]	
<p>C Defensive Role Undetermined</p>							
8	Vezegyes SAM Site A01-2, [redacted]	47-01-45N 17-58-48E	HU 0252-10	SA-2, configuration undetermined	[redacted]	[redacted]	25X1
9	Kaposvar SAM Site B03-2, [redacted]	46-33-43N 17-58-30E	HU 0252-10	SA-2, star	[redacted]	[redacted]	25X1

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Table 51. SAM Installations on WAC 150.

Item	Name, Site Designator, & DE No	Coordinates	County & 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. Base-rank SAM Site

Location: 11B-1130E

IR 025036

*V2 configuration undetermined *

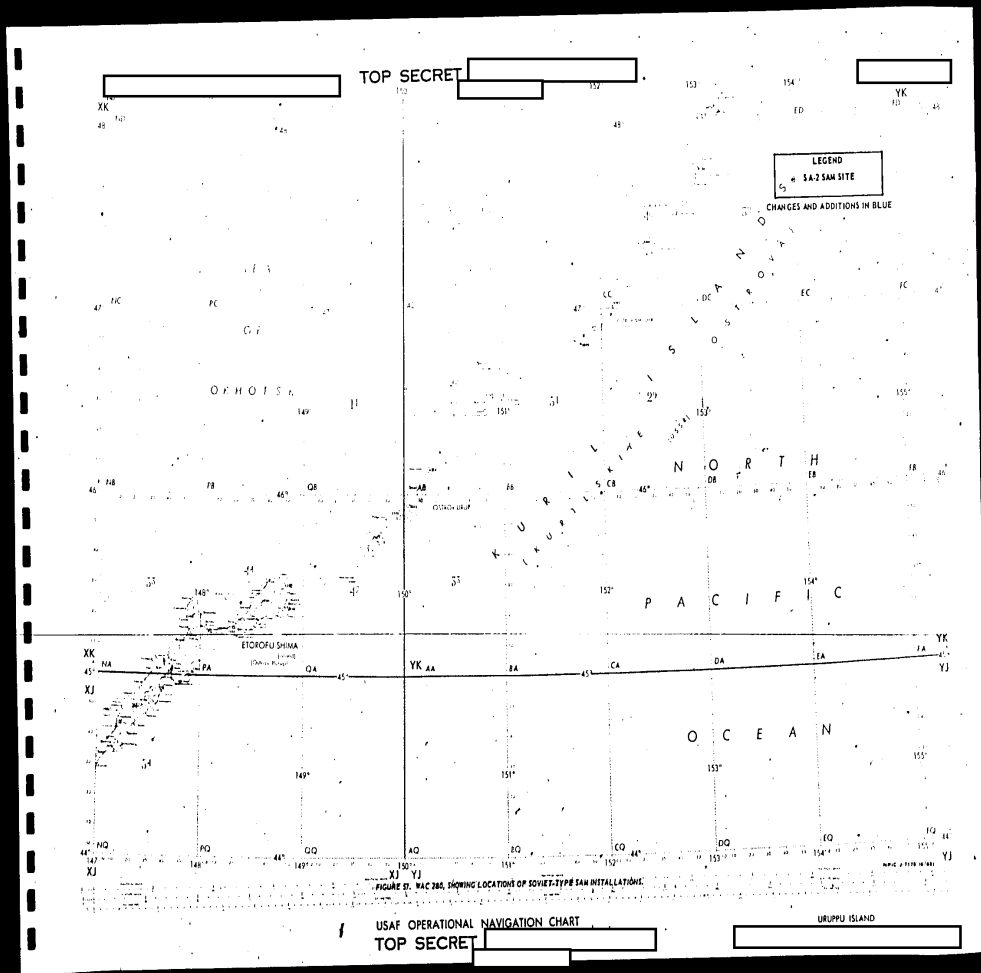
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Table 15. SAM Installations on SAC III.

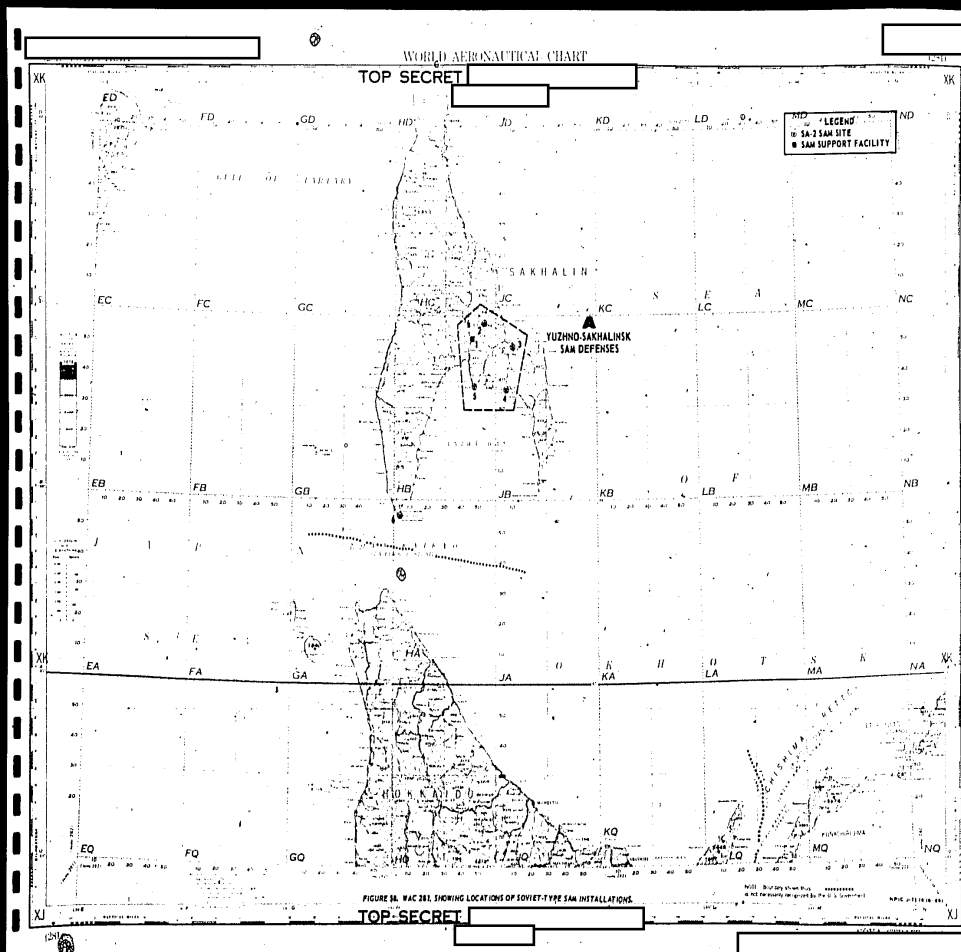
Item	Name, Site Designator, & DE No.	Coordinates	Country & Map Ref.	Type & Configuration	Mission & Date First Appears	Version & Date Installation Negated	Remarks
<p>Note - Installations whose defensive role cannot be determined and which are not located within the limits of a SAM defense area are found under subheading B - "Defensive Role Undetermined."</p>							
<p>A 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 centers-facilities for production of explosives, alcohol, and oxygen; and Korakin-najpe part of Sakhalin Island, naval base, and military airfield)</p>							
1	Yuzhno-Sakhalinsk SAM Support Facility	46-52-00N 142-46-50E	UR 0281-8A	Type II (square)			25X1
2	Yuzhno-Sakhalinsk SAM Site A10-2	46-57-00N 142-54-50E	UR 0281-8	SA-2, configuration undetermined			
3	Yuzhno-Sakhalinsk SAM Site B12-2	46-56-45N 143-10-00E	UR 0281-8	SA-2, link			
4	Korakin SAM Site B10-2	46-56-50N 143-06-50E	UR 0281-8A	SA-2, link			
5	Korakin SAM Site A11-2	46-57-20N 142-48-50E	UR 0281-8A	SA-2, link			
<p>B Defensive Role Undetermined</p>							
6	Dobryayn SAM Site A16-2	45-55-45N 142-01-30E	UR 0231-12A	SA-2, link			

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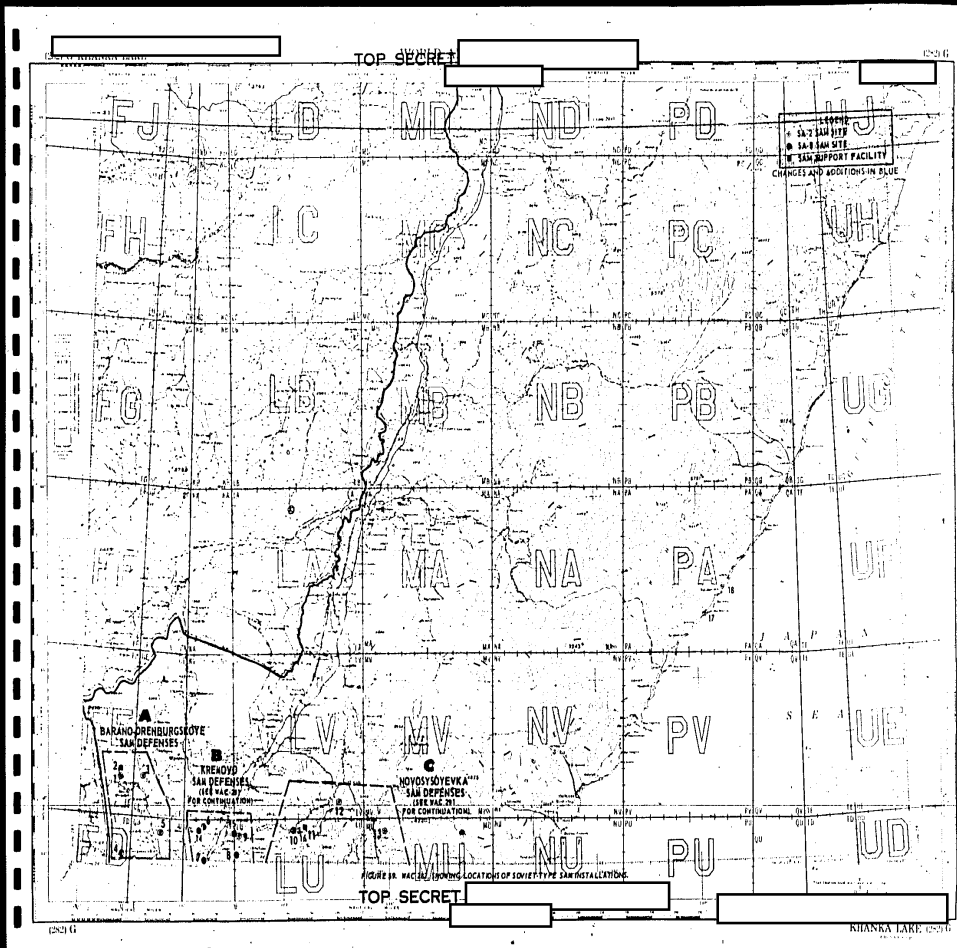
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Table 56. SAM Installations on WAC 122.

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-Drenburgskoye SAM Defenses (in defense of Barano-Drenburgskoye MIRM Complex, and Golitski Airfield) 25X1								
1	Barano-Drenburgskoye MIRM Complex SAM Site A3-2	44-26-15N 131-22-40E	UR 0262-21	SA-2, star			25X1	
2	Barano-Drenburgskoye SAM Support Facility	44-27-00N 131-22-35E	UR 0262-21	Type II (square)				
3	Barano-Drenburgskoye MIRM Complex SAM Site B10-2	44-27-00N 131-25-30E	UR 0262-21	SA-2, skull				
4	Barano-Drenburgskoye MIRM Complex SAM Site B19-2	44-02-40N 131-24-15E	UR 0262-21	SA-2, star				
5	Barano-Drenburgskoye MIRM Complex SAM Site B19-2	44-10-03N 131-45-00E	UR 0262-21	SA-2, skull				
B Kremenu SAM Defenses (in defense of Kremenu MIRM Complex and Golitski Airfield)								
6	Chernigovka SAM Site B352-2	44-12-30N 133-11-00E	UR 0262-21	SA-2, skull			25X1	
7	Usatyivka SAM Site B364-2	44-08-55N 132-41-50E	UR 0262-21	SA-3, configuration F				
8	Usatyivka SAM Site C07-3	44-02-10N 132-50-00E	UR 0262-21	SA-3, configuration A				
9	Chernigovka SAM Site A05-2	44-10-50N 132-50-00E	UR 0262-21	SA-2, star			25X1	
11	Chernigovka SAM Site B25-2	44-11-11N 132-59-21E	UR 0262-21	SA-3, configuration F				
15	Chernigovka SAM Site B352-2	44-02-30N 132-39-35E	UR 0262-21	SA-3, configuration F				
C Novosvyetlisk SAM Defenses (in defense of Novosvyetlisk MIRM Complex)								
10	Chernigovka SAM Site A24-2	44-10-50N 133-05-10E	UR 0262-22	SA-2, skull			25X1	
11	Chernigovka SAM Support Facility	44-12-00N 133-10-10E	UR 0262-21	Type II (square)				
12	Dostyevka SAM Site A03-2	44-21-30N 133-30-40E	UR 0262-22	SA-2, skull				
13	Novosvyetlisk MIRM Complex SAM Site C09-2	44-10-50N 133-57-00E	UR 0262-23	SA-2, skull				
16	Chernigovka SAM Site A14-2	44-11-40N 133-02-55E	UR 0262-22	SA-2, probable chrome			25X1	
D Defensive Role Undetermined								
17	Vokhova Koma SAM Site A26-2	45-21-50N 137-04-20E	UR 0262-19	SA-2, configuration undetermined				
18	Vokhova Koma SAM Site A16-2	45-20-30N 137-14-40E	UR 0262-19	SA-2, configuration undetermined			25X1	

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Table 27. SAM Installations on VAC 251.

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 listed under subheading A - "Defensive Role Undetermined."</p> <p>A Defensive Role Undetermined</p>							
1	Barratocosa Possible SAM site	11-5040N 117-1141E	CHAM Series E200, Street NI 200 H (A)	Possible S-122 configuration undetermined			

25X1

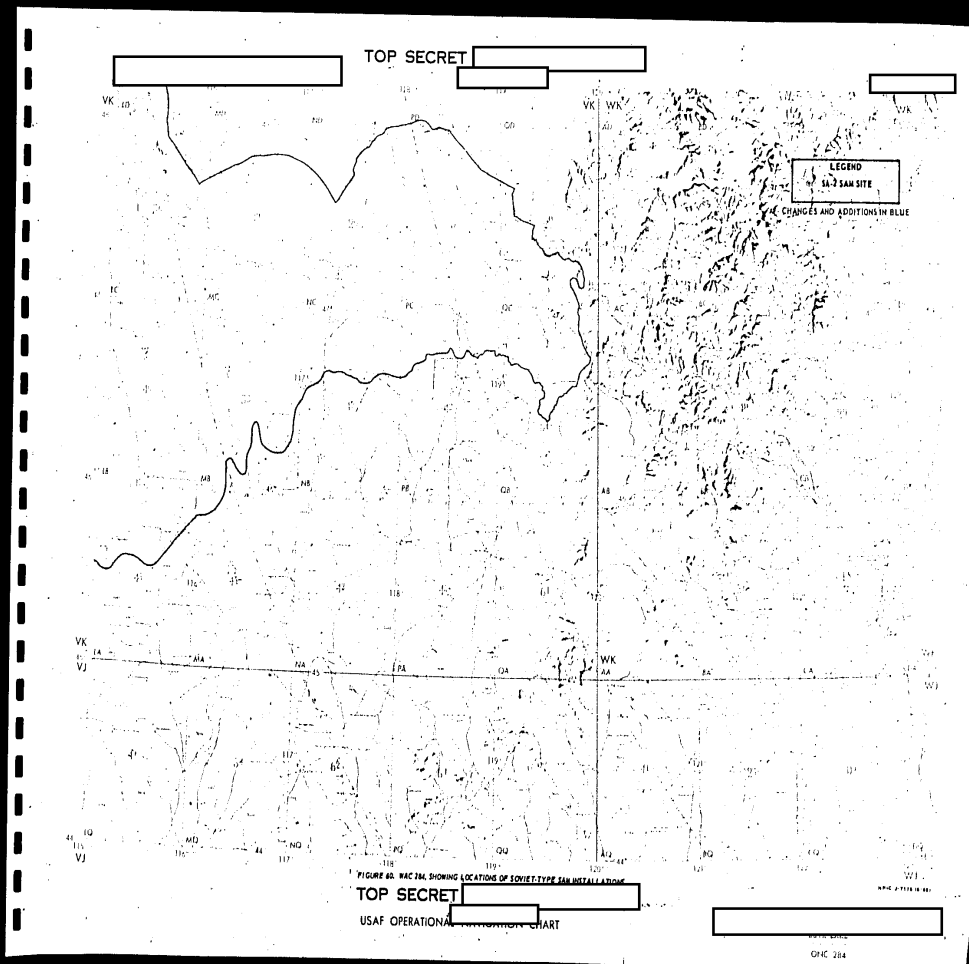
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Table 88. SAM Installations on WAC 801.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
▲ Shuangchengta (China) SAM Defenses (in defense of Shuangchengta Missile Test Center, R & D facility for SSMs, SAMs, AAMs, and ASMs)							
1	Shuangchengta Missile Test Center SAM Site C020 [Redacted] 25X1	41-06-30N 100-29-00E	CHINA ESPA NK ITA	SA-3, etc	[Redacted]		25X1
2	Shuangchengta Missile Test Center SAM Launch Complex 25X1	41-01-08N 100-30-00E	CHINA ESPA NK ITA	See remarks			SAM Launch Complex consists of two (two) SAM sites.

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