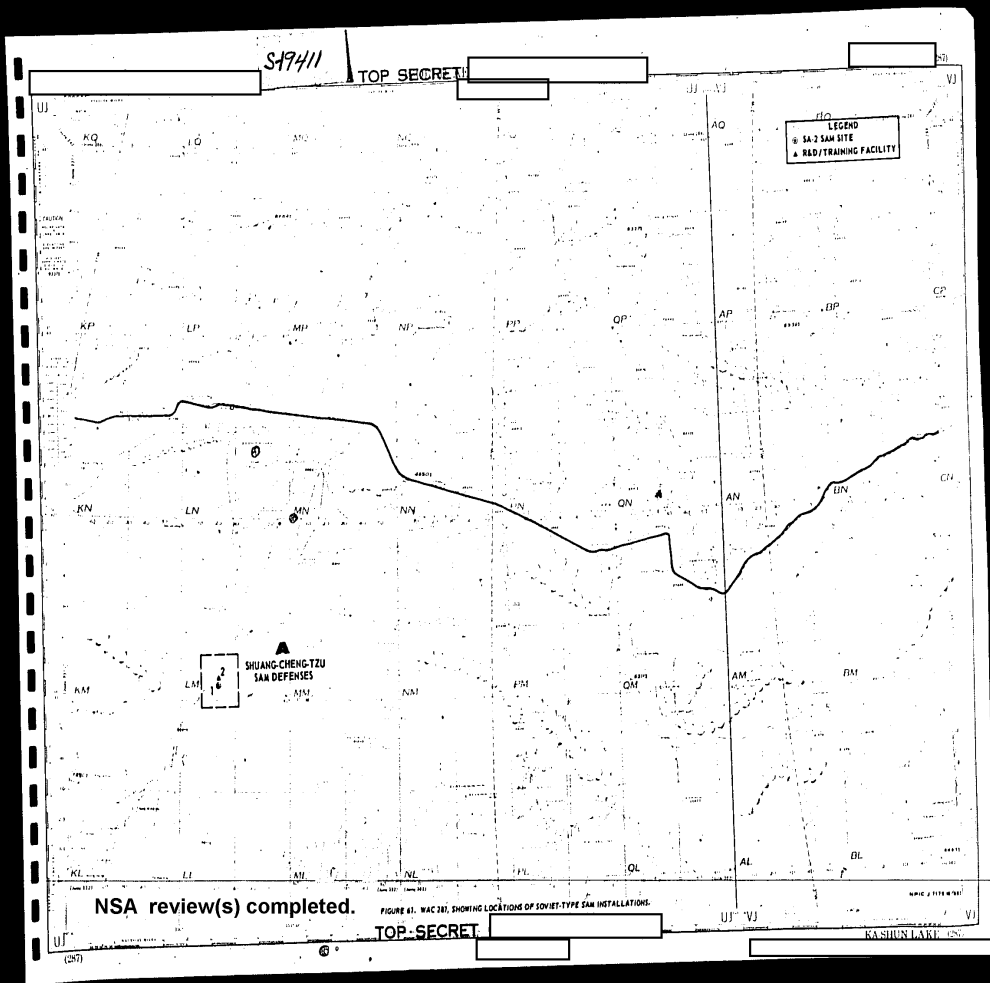


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NSA review(s) completed.

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

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Table 55. SAM Installations on WAC 255.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Missing & Date First Apparent	Mission & Date Installation Negated	Remarks
▲ 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 factories)							
1	Peiping SAM Site B15-4	40-09-20N 116-18-25E	CH 028421	SA-2, Hawk			25X1D
2	Peiping SAM Site B06-4	40-05-20N 116-12-30E	CH 028422	SA-2, Star			

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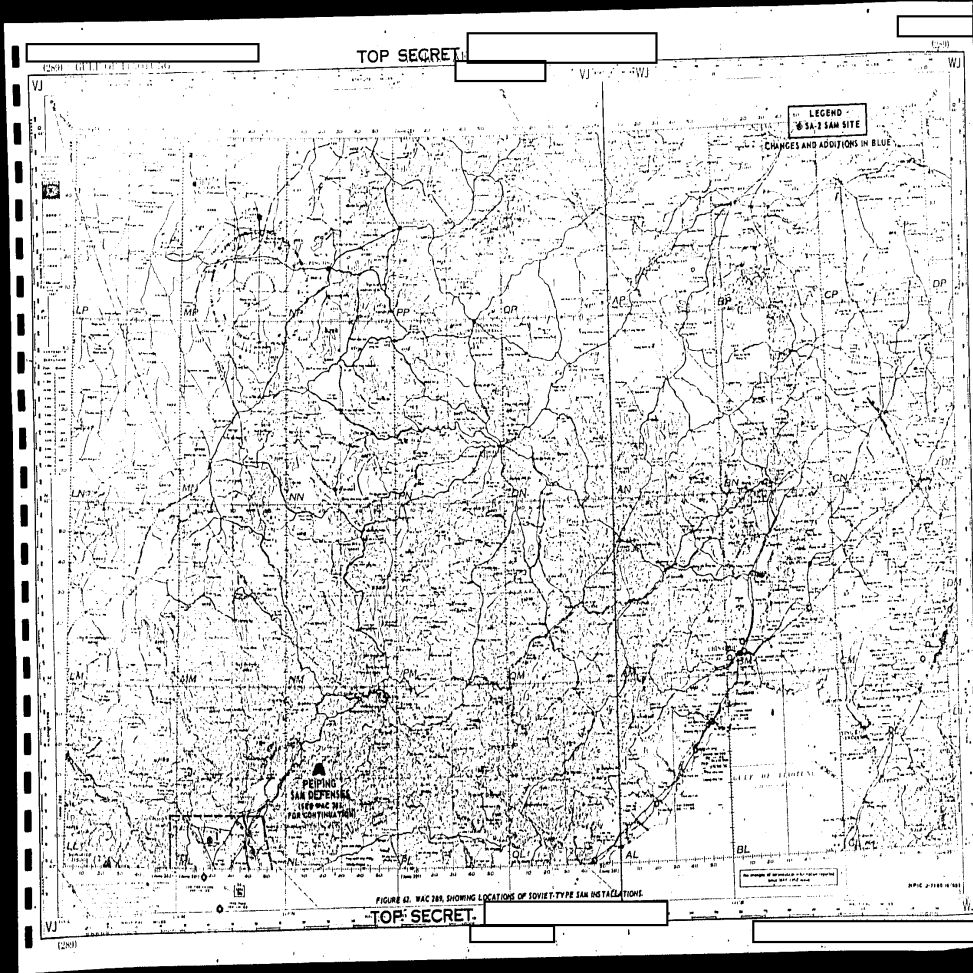
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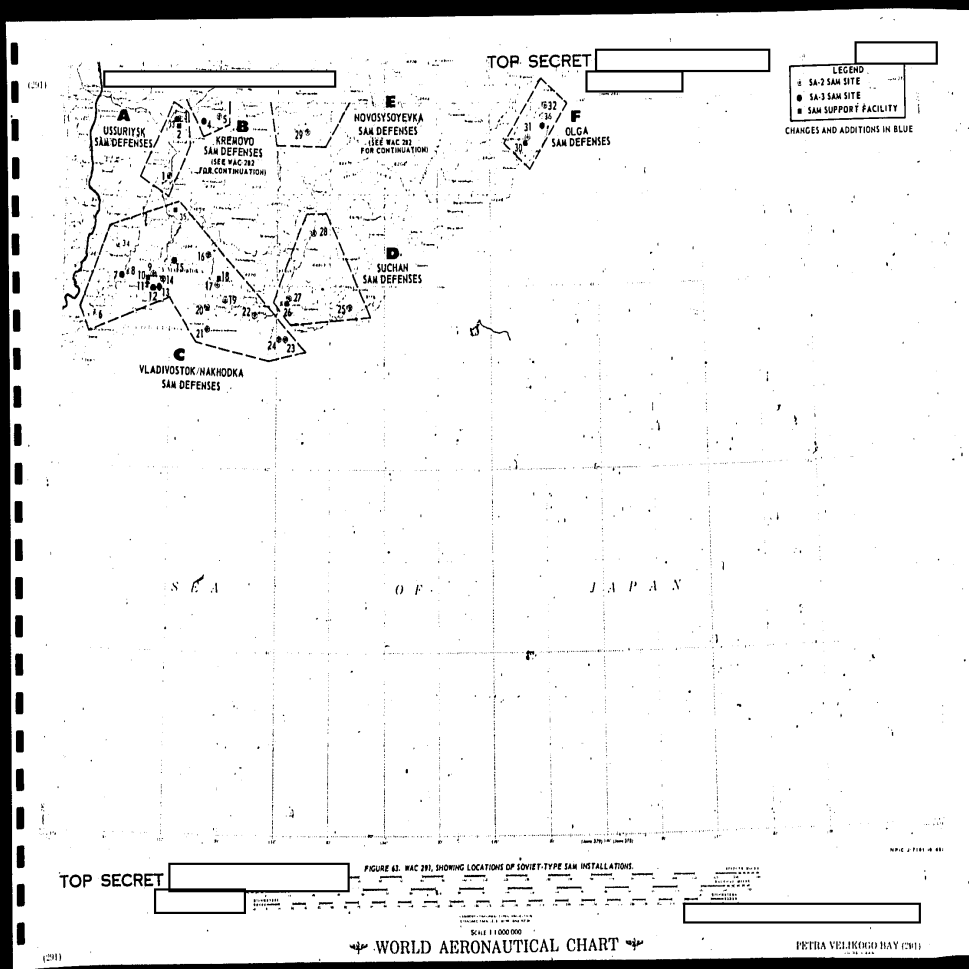
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Table 69. SAM Installations on WAC 291.

Item	Name, Site Designator, & BQ 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-ferrous and car repair shops; and military center-ammo storage, PDL storage, and 11 military airfields within 20-nautical-mile radius of Ussuriysk)								
25X1A	Ussuriysk SAM Site B10-2	43-32-45N 131-36-35E	UR 0291-4	SV-2, probable link	UR 0291-4		25X1D	
25X1A	Ussuriysk SAM Support Facility	43-51-45N 132-03-10E	UR 0291-1	Type II (square)	UR 0291-1			
25X1A	Ussuriysk SAM Site A01-2	43-53-25S 132-03-00E	UR 0291-1	SV-2, star	UR 0291-1			
25X1A	Ussuriysk SAM Site A01-3	43-53-15N 132-03-14E	UR 0291-1	SV-3, configuration undetermined	UR 0291-1			
B. Kromovo SAM Defenses (in defense of Kromovo MRBM Complex and Golonki Airfield)								
25X1A	Ussuriysk SAM Site B09-2	43-50-10N 132-16-50E	UR 0291-1	SA-2, configuration B	UR 0291-1			
25X1A	Ussuriysk SAM Site C06-2	43-54-30N 132-29-20E	UR 0291-1	SA-2, chevron	UR 0291-1			
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-majors naval base)								
25X1A	Vladivostok SAM Site D25-2	43-49-45N 131-17-00E	UR 0291-4	SA-2, link	UR 0291-4		25X1D	
25X1A	Vladivostok SAM Site B26-2	43-02-25N 131-53-00E	UR 0291-4	SA-3, configuration F	UR 0291-4			
25X1A	Vladivostok SAM Site D27-2	43-03-55N 131-53-40E	UR 0291-4	SA-2, link	UR 0291-4			
25X1A	Vladivostok SAM Site A24-2	43-02-45N 131-49-40E	UR 0291-4	SA-2, probable link	UR 0291-4			
25X1A	Vladivostok SAM Support Facility 1	43-01-10N 131-47-20E	UR 0291-4	Type I (rectangular)	UR 0291-4			
25X1A	Vladivostok SAM Site A25-2	43-00-15N 131-47-40E	UR 0291-4	SV-2, fan	UR 0291-4			
25X1A	Vladivostok SAM Site A22-2	42-58-35N 131-46-10E	UR 0291-4	SA-3, configuration F	UR 0291-4			
25X1A	Vladivostok SAM Site A19-2	42-58-20N 131-54-50E	UR 0291-4	SA-3, configuration F	UR 0291-4			
25X1A	Vladivostok SAM Site A19-3	42-58-50N 131-55-15E	UR 0291-4	SV-2, fan	UR 0291-4			
25X1A	Vladivostok SAM Site A07-2	43-07-40N 132-02-20E	UR 0291-4	SA-3, configuration F	UR 0291-4			
25X1A	Vladivostok SAM Site B08-2	43-10-10N 132-29-20E	UR 0291-4	SA-2, fan	UR 0291-4			
25X1A	Vladivostok SAM Site C11-2	43-00-50N 132-29-40E	UR 0291-4	SA-2, chevron	UR 0291-4			
25X1A	Vladivostok SAM Support Facility 2	43-00-55N 132-29-20E	UR 0291-4	Type I (rectangular)	UR 0291-4			
25X1A	Nakhodka SAM Site B19-2	43-54-40N 132-35-43E	UR 0291-4	SA-2, link	UR 0291-4			
25X1A	Vladivostok SAM Site C13-2	43-52-50N 132-29-00E	UR 0291-4	SV-2, fan	UR 0291-4			
25X1A	Vladivostok SAM Site C14-2	43-48-25N 132-21-05E	UR 0291-4	SA-2, link	UR 0291-4			
25X1A	Nakhodka SAM Site A26-2	43-50-50N 132-46-20E	UR 0291-7	SA-2, link	UR 0291-7			
25X1A	Nakhodka SAM Site B19-2	43-45-15N 133-02-45E	UR 0291-7	SV-2, fan	UR 0291-7			
25X1A	Nakhodka SAM Site B18-2	43-42-50N 133-01-45E	UR 0291-7	SA-2, fan	UR 0291-7			
25X1A	Vladivostok SAM Site B30-2	43-12-10N 131-52-10E	UR 0291-1	SA-2, configuration undetermined	UR 0291-1			
25X1A	Avrova Possible SAM Support Facility	43-21-30N 131-03-10E	UR 0291-1	Configuration irregular	UR 0291-1			
D. Surban SAM Defenses (in defense of Surban MRBM Complex)								
25X1A	Ryevka SAM Site A22-2	42-52-50N 133-40-00E	UR 0291-7	SA-2, star	UR 0291-7			25X1D
25X1A	Nakhodka SAM Support Facility	43-54-30N 133-05-20E	UR 0291-7	Type II (square)	UR 0291-7			
25X1A	Nakhodka SAM Site B07-2	43-53-20N 133-06-30E	UR 0291-7	SA-2, link	UR 0291-7			
25X1A	Surban MRBM Complex SAM Site B01-2	43-17-25N 133-20-00E	UR 0291-8	SA-2, skull	UR 0291-8			
E. Novosayevskaya SAM Defense (in defense of Novosayevskaya IRBM Complex)								
25X1A	Novosayevskaya IRBM Complex SAM Site C21-2	43-50-50N 133-16-00E	UR 0291-2	SA-2, fan	UR 0291-2			
F. Olga SAM Defenses (in defense of Olga Bay Submarine Base, Olga Air Defense Sector Headquarters, and Vladimira submarine base and naval facility)								
25X1A	Olga SAM Support Facility 1	43-48-30N 145-19-50E	UR 0291-3	Type II (square)	UR 0291-3		25X1D	
25X1A	Olga SAM Site A05-2	43-43-45N 145-21-00E	UR 0291-3	SA-2, fan	UR 0291-3			
25X1A	Olga SAM Site B04-2	43-58-00V 145-51-00E	UR 0291-3	SA-2, configuration irregular	UR 0291-3			
25X1A	Olga SAM Site B03-2	43-51-00N 145-29-50E	UR 0291-3	SA-3, configuration undetermined	UR 0291-3			

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Table 61. SAM Installations on WAC 30E.

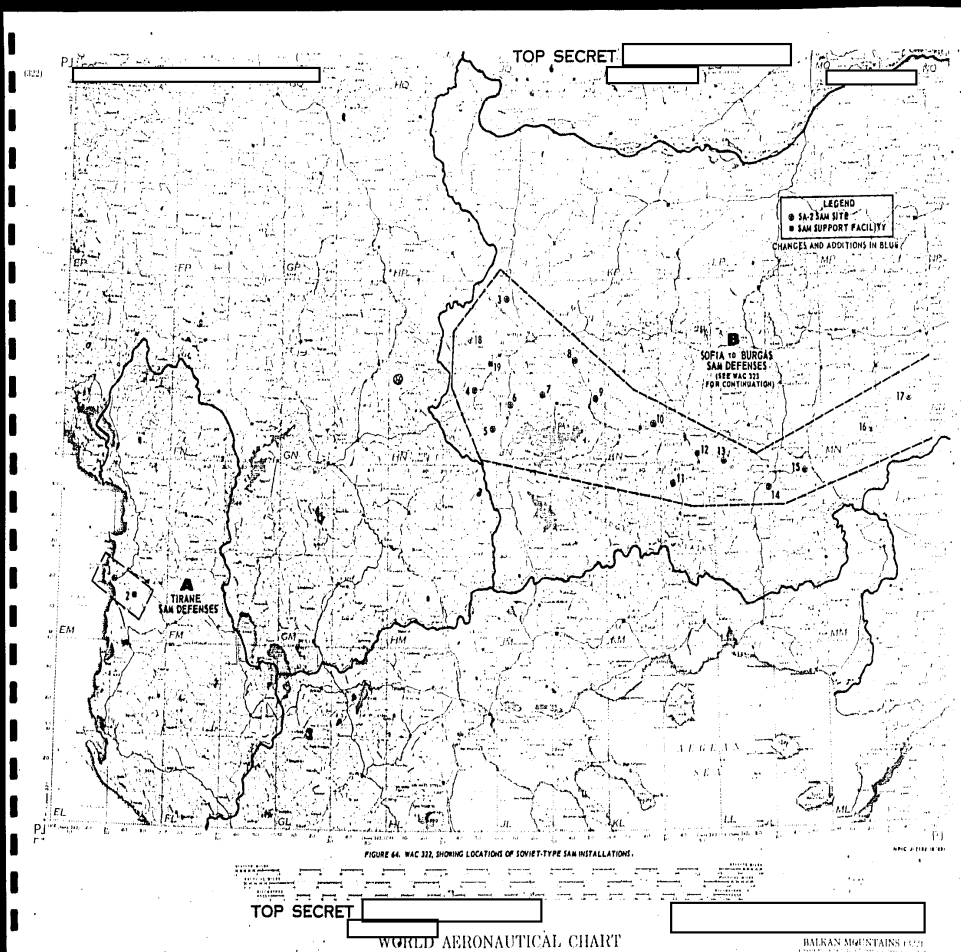
Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date Fins. Apprs'd	Mission & Date Installation Negated	Remarks
A Tirane (Albania) SAM Defenses (in defense of Tirane, capital of Albania, and \odot important military center)							
1	Tirane SAM Site B29-2, 25X1A	41-22-06N 19-31-42E	AL 0322-16	SA-2, link			25X1D
2	Tirane SAM Support Facility, 25X1A	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, radio, 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)							
25X1A	Sofia SAM Site B23-2	42-36-20N 23-06-00E	BU 0322-16	SA-2, fan			25X1D
25X1A	Sofia SAM Site C24-2	42-29-00N 22-47-30E	BU 0322-16	SA-2, fan			
25X1A	Stavko Dimitroff SAM Site A25-2	42-18-13N 22-58-50E	BU 0322-16	SA-2, fan			
25X1A	Sofia SAM Site C21-2	42-21-00N 23-07-00E	BU 0322-16	SA-2, fan			
25X1A	Sofia SAM Site B17-2	42-21-40N 22-29-00E	BU 0322-16	SA-2, fan			
25X1A	Sofia SAM Site B12-2	42-35-00N 22-43-00E	BU 0322-16	SA-2, fan			
25X1A	Sofia SAM Site D13-2	42-23-10N 22-59-00E	BU 0322-16	SA-2, fan			
25X1A	Plovdiv SAM Site B20-2	42-11-10N 24-06-20E	BU 0322-16	SA-2, fan			
25X1A	Plovdiv SAM Site B22-2	41-55-30N 24-37-40E	BU 0322-16	SA-2, fan			
25X1A	Plovdiv SAM Support Facility	42-01-20N 24-51-30E	BU 0322-16	Type II (square)			
25X1A	Plovdiv SAM Site B12-2	42-02-10N 24-40-35E	BU 0322-16	SA-2, fan			
25X1A	Khanovo SAM Site A27-2	41-53-45N 25-30-10E	BU 0322-16	SA-2, fan			
25X1A	Khanovo SAM Site A35-2	41-58-50N 25-30-50E	BU 0322-16	SA-2, fan			
25X1A	Elkhovo SAM Site A27-2	42-10-40N 26-26-40E	BU 0322-16	SA-2, link			
25X1A	Elkhovo SAM Site B04-2	42-20-00N 26-47-20E	BU 0322-16	SA-2, fan			
25X1A	Sofia SAM Site C 28-2	42-42-10N 22-10-15E	BU 0322-16	SA-2, probable fan			
25X1A	Sofia SAM Support Facility	42-33-30N 22-57-30E	BU 0322-16	Configuration irregular			

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Table 01. SAM Installations on WAC 301.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Negated	Remarks
A Sofia to Burgas (Bulgaria) SAM Defense (in defense of the southern border of Bulgaria; Sofia, capital of Bulgaria, major transportation and industrial production center—machinery, textiles, chemical, and electrical equipment; iron and steel plant at Dimitovgrad; Plovdiv, important transportation and military center, including two military airfields; Burgas, Black Sea port and naval base)							
1	Burgas SAM Site B25-2	42-20-40N 27-18-10E	BU 0323-11	SA-2, link			25X1D
2	Burgas SAM Site B13-5	42-22-40N 27-41-50E	BU 0323-11	SA-2, link			25X1A
6	Burgas SAM Support Facility	42-26-05N 27-09-00E	BU 0323-06	Configuration irregular			25X1A
B Varna (Bulgaria) SAM Defense (in defense of Varna, major Bulgarian port on the Black Sea; Varna Naval Base and Shipyards, Headquarters Bulgarian Black Sea Fleet)							
3	Varna SAM Site B19-2	43-01-45N 27-52-30E	BU 0323-06	SA-2, fan			25X1D
4	Varna SAM Support Facility	43-19-30N 27-46-20E	BU 0323-11	Type II (square)			25X1A
5	Varna SAM Site A03-2	43-19-30N 28-03-15E	BU 0323-11	SA-2, fan			25X1A

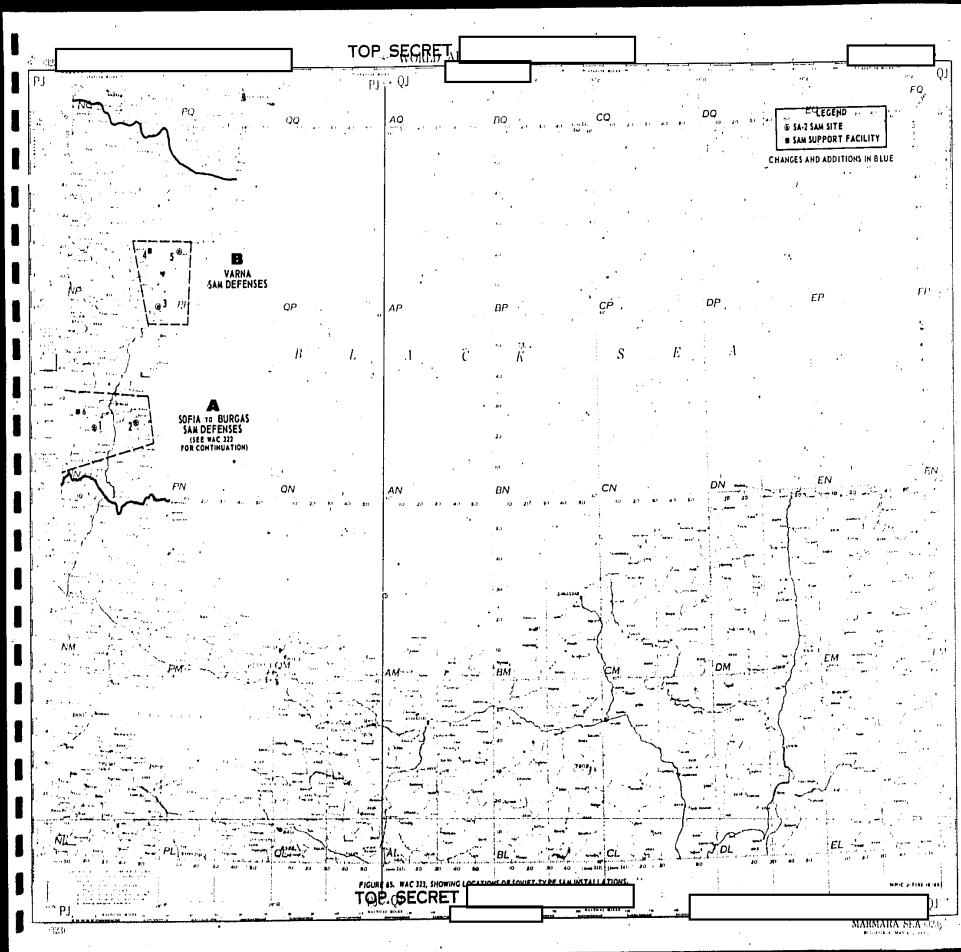
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Table 65. SAM Installations on WAC 311.

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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▲ 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; Ochanchite 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)

25X1A	Sochi SAM Site A33-2	[redacted]	43-52-50N 39-38-45E	UR 0324-3	SA-2, link		
25X1A	Adjar SAM Site A11-2	[redacted]	43-25-40N 40-02-00E	UR 0324-4	SA-2, link		
25X1A	Gudauta SAM Site B29-2	[redacted]	43-10-00N 40-19-00E	UR 0324-9	SA-2, fan		
25X1A	Gudauta SAM Support Facility	[redacted]	43-08-30N 40-36-30E	UR 0324-9	Type II (square)		
25X1A	Sukhumi SAM Site A11-2	[redacted]	43-03-30N 40-42-30E	UR 0324-9	SA-2, fan		
25X1A	Sukhumi SAM Site A15-2	[redacted]	42-56-15N 41-03-00E	UR 0324-9	SA-2, fan		
25X1A	Ochanchite SAM Site A22-2	[redacted]	42-42-40N 41-01-00E	UR 0324-10	SA-2, fan		
25X1A	Poti SAM Site A32-2	[redacted]	42-22-50N 41-35-20E	UR 0324-15	SA-2, fan		
25X1A	Poti SAM Site A35-2	[redacted]	42-12-00N 41-09-30E	UR 0324-15	SA-2, link		
25X1A	Poti SAM Support Facility	[redacted]	42-14-00N 41-06-00E	UR 0324-15	Type I (rectangular)		
25X1A	Poti SAM Site D07-2	[redacted]	42-15-30N 41-35-40E	UR 0324-15	SA-2, link		
25X1A	Poti SAM Site A15-2	[redacted]	42-01-50N 41-43-40E	UR 0324-15	SA-2, link		
25X1A	Kutaisi SAM Site A28-2	[redacted]	42-12-40N 42-31-10E	UR 0324-15	SA-2, link		
25X1A	Kutaisi SAM Site B11-2	[redacted]	42-12-30N 42-30-00E	UR 0324-15	SA-2, link		
25X1A	Batumi SAM Site A21-2	[redacted]	41-07-45N 41-24-00E	UR 0324-15	SA-2, link		

25X1D

■ USSR Southern Border Probable Secondary SAM Defenses (this site forms part of a probable secondary barrier stretching between the Black and Caspian Seas)

25X1A	Pyatigorsk SAM Site A25-2	[redacted]	43-50-11N 42-45-40E	UR 0324-5	SA-2, star		
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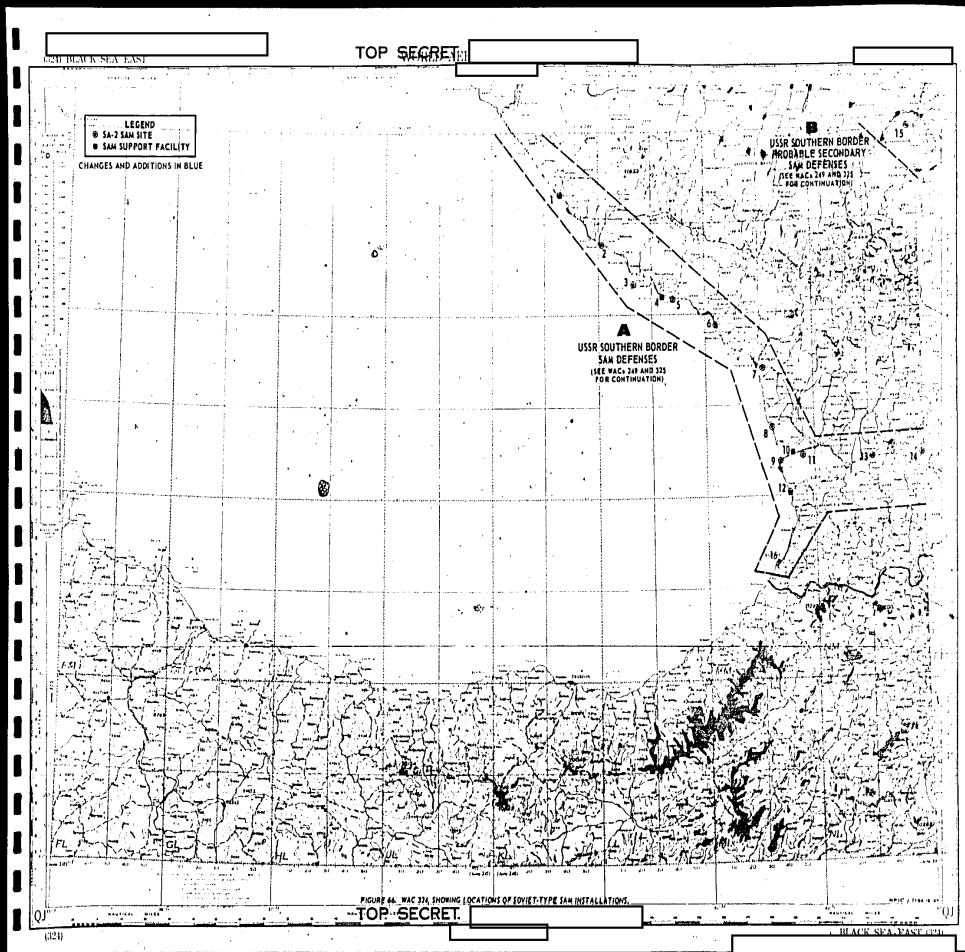
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Table G1. SAM Installations on WAC 325.

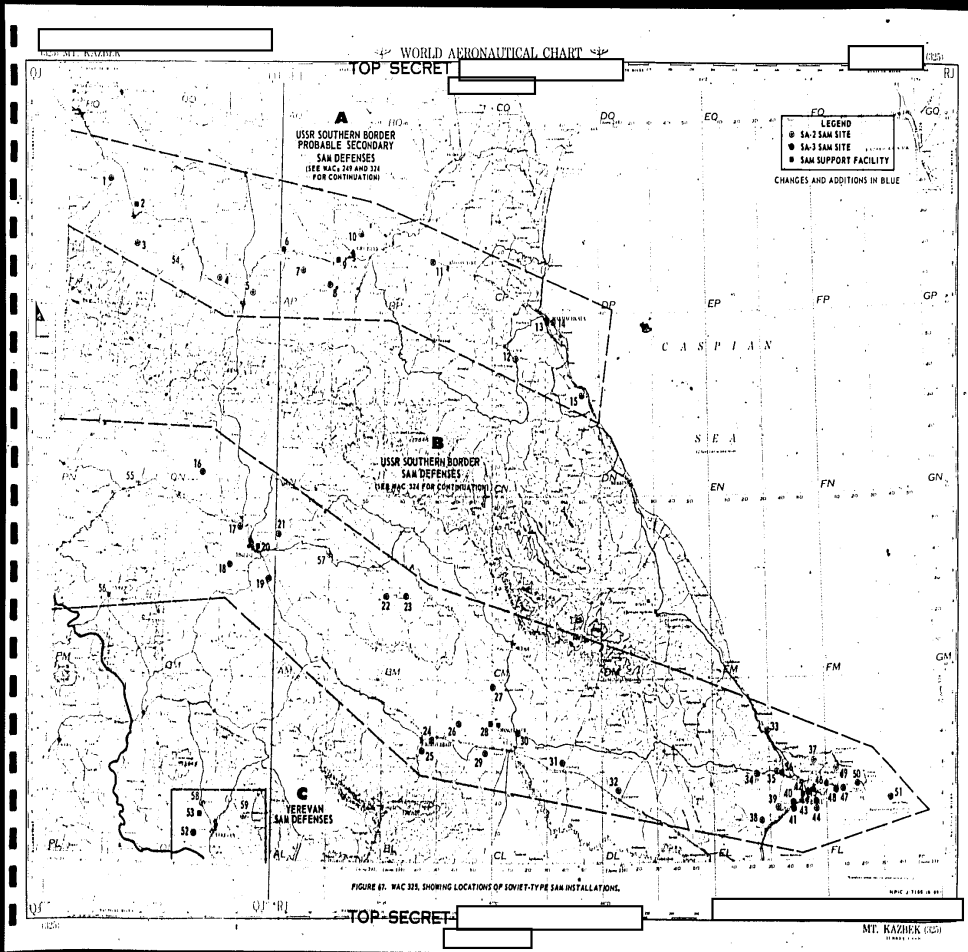
Item	Name, Site Designator, & BE No.	Coordinates	Country & Map Ref.	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
USSR Southern Border Probable Secondary SAM Defenses (These sites form a probable secondary barrier in defense of the southern border of the USSR, and also defend Nalchik, minor complex containing several explosive-storage areas; Ordzhonikidze, ore processing plants and POL storage; Gruzny, major POL complex including airfields, POL refineries and POL production equipment plants; Gruzny URMU Complex; Tbilisi HEMU Complex; Makhachkala Caspian Sea port containing POL storage and transshipment facilities, ship equipment plant, munitions plant)							
25X1A	Nalchik SAM Site B33-2	43-40-30N 43-24-30E	UR 0325-1	SA-2, star			
25X1A	Nalchik SAM Support Facility	43-42-00N 43-37-00E	UR 0325-1	Type II (square)			
25X1A	Nalchik SAM Site A17-2	43-18-20N 43-40-20E	UR 0325-1	SA-2, star			
25X1A	Ordzhonikidze SAM Site B31-2	43-08-18N 43-27-20E	UR 0325-6	SA-2, star			
25X1A	Ordzhonikidze SAM Site A05-2	43-04-30N 44-16-00E	UR 0325-7	SA-2, star			
25X1A	Ordzhonikidze-Says SAM Support Facility	43-18-00N 43-02-20E	UR 0325-2	Type II (square)			
25X1A	Gruzny SAM Site B20-2	43-12-02N 43-15-00E	UR 0325-2	SA-2, configuration undetermined			
25X1A	Gruzny SAM Site B22-2	43-06-00N 43-09-10E	UR 0325-7	SA-2, link			
25X1A	Gruzny SAM Support Facility	43-14-10N 43-35-20E	UR 0325-2	Type II (square)			
25X1A	Gruzny SAM Site A07-2	43-21-50N 43-47-00E	UR 0325-2	SA-2, link			
25X1A	Kharayurt SAM Site A26-2	43-16-00N 48-36-10E	UR 0325-2	SA-2, star			
25X1A	Makhachkala SAM Site B23-2	43-44-10N 47-14-20E	UR 0325-2	SA-2, fan			
25X1A	Makhachkala SAM Support Facility	43-46-10N 47-35-10E	UR 0325-8	Type II (square)			
25X1A	Makhachkala SAM Site B16-2	43-26-00N 47-34-00E	UR 0325-8	SA-2, star			
25X1A	Makhachkala SAM Site C15-2	43-42-40N 47-51-10E	UR 0325-9	SA-2, star			
25X1A	Makhachkala SAM Site A11-2	43-12-00N 47-01-00E	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] refineries and machine tool plants; Kirovabad, minor complex containing POL storage facilities; Mingechar Dam; Kyurdamir Airfield; Baku, major Caspian Sea port-extensive port facilities, shipping, naval base, and industrial complex-numerous POL refineries, POL storage areas, POL production equipment plants)							
25X1A	Gor SAM Site B08-2	43-02-00N 41-31-00E	UR 0325-11	SA-2, link			
25X1A	Tbilisi SAM Site B32-2	41-15-00N 44-42-00E	UR 0325-12	SA-2, link			
25X1A	Tbilisi SAM Site B24-2	41-33-00N 44-36-00E	UR 0325-17	SA-2, link			
25X1A	Tbilisi SAM Site B15-2	41-31-30N 44-58-00E	UR 0325-12	SA-2, link			
25X1A	Tbilisi SAM Support Facility	41-37-02N 44-30-00E	UR 0325-13	Type I (rectangular)			
25X1A	Tbilisi SAM Site B09-2	41-16-30N 44-02-00E	UR 0325-12	SA-2, link			
25X1A	Tbilisi Takran SAM Site A21-2	41-28-42N 46-03-00E	UR 0325-17	SA-2, see remarks			Site No 22 has a star configuration within a modified link configuration. The ring road is omitted. An unimproved site, consisting of a circular road and non-rotated launch positions, is located approximately one nautical mile northeast of this site at 41-27-45N 46-01-13E. This unimproved site was first seen on [redacted]
25X1A	Tbilisi-Takran SAM Site A10-2	41-07-20N 44-13-40E	UR 0325-16	SA-2, configuration undetermined			
25X1A	Kirovabad SAM Site A10-2	40-40-00N 48-38-40E	UR 0325-23	SA-2, configuration undetermined			
25X1A	Kirovabad SAM Site A18-2	40-38-40N 48-23-00E	UR 0325-23	SA-2, link			
25X1A	Mingechar SAM Site B27-2	40-48-00N 46-43-00E	UR 0325-23	SA-2, star			
25X1A	Mingechar SAM Site B36-2	40-37-10N 47-01-20E	UR 0325-18	SA-2, star			
25X1A	Mingechar SAM Support Facility	40-48-10N 47-00-00E	UR 0325-23	Type I (rectangular)			
25X1A	Mingechar SAM Site B20-2	40-44-10N 46-49-00E	UR 0325-23	SA-2, star			
25X1A	Mingechar SAM Site B11-2	40-43-10N 47-15-00E	UR 0325-23	SA-2, star			
25X1A	Mingechar SAM Site C18-2	40-32-42N 47-38-00E	UR 0325-23	SA-2, configuration undetermined			
25X1A	Kyurdamir SAM Site A03-2	40-03-00N 48-00-00E	UR 0325-24	SA-2, configuration undetermined			

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Table 62. SAM Installations on R.17-255 (continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Negated	Remarks
B USSR Southern Border SAM Defenses (continued)							
37	Baku SAM Site C20-2	40-42-50N 40-20-30E		SA-2, link	UR 0325-25		
38	Baku SAM Site C29-2	40-28-40N 40-24-40E		SA-2, star	UR 0325-25		
39	Baku SAM Site B30-2	40-29-00N 40-35-00E		SA-2, link	UR 0325-25		
40	Baku SAM Support Facility 5	40-29-05N 40-30-10E		Type I (rectangle)	UR 0325-25		
38	Baku SAM Site B02-2	40-24-10N 40-34-30E		SA-2, fan	UR 0325-25		
39	Baku SAM Site C25-2	40-15-50N 40-20-25E		SA-2, fan	UR 0325-25		
39	Baku SAM Site B25-2	40-17-00N 40-35-10E		SA-2, link	UR 0325-25		
40	Baku SAM Site A23-2	40-16-45N 40-45-25E		SA-2, link	UR 0325-25		
41	Baku SAM Site A23-2	40-16-12N 40-45-30E		SA-3, configuration F	UR 0325-25		
42	Baku SAM Support Facility 2	40-20-30N 40-41-20E		Type I (rectangle)	UR 0325-25		
43	Baku SAM Site A25-2	40-16-00N 40-40-35E		SA-2, fan	UR 0325-25		
44	Baku SAM Site A19-2	40-17-31N 40-54-45E		SA-2, fan	UR 0325-25		
44	Baku SAM Site A18-2	40-17-31N 40-54-45E		SA-3, configuration F	UR 0325-25		
47	Baku SAM Support Facility 1	40-24-00N 50-01-10E		Type I (rectangle)	UR 0325-25		
47	Baku SAM Site B10-2	40-22-00N 50-07-00E		SA-2, peak link	UR 0325-25		
48	Baku SAM Site B10-2	40-22-30N 50-07-00E		SA-3, configuration F	UR 0325-25		
49	Baku SAM Site B06-2	40-20-40N 50-06-00E		SA-2, star	UR 0325-25		
50	Baku SAM Site B09-2	40-24-00N 50-16-00E		SA-2, diary	UR 0325-25		
51	Baku SAM Site D10-2	40-19-20N 50-50-30E		SA-2, probable link	UR 0325-25		
55	Gori SAM Site B29-2	43-05-20N 45-42-50E		SA-2, link	UR 0325-11		
56	Mashakalaki SAM Site	41-25-50N 45-28-00E		SA-2, configuration undetermined	UR 0325-16		
57	Thlis SAM Site B10-2	41-40-20N 45-29-00E		SA-2, configuration undetermined	UR 0325-12		
C Yerevan SAM Defenses (in defense of Yerevan, major industrial complex including synthetic rubber, chemical, electrical machinery, and aluminum production)							
25X1A	Yerevan SAM Site A25-2	40-08-35N 44-19-37E		SA-2, link	UR 0325-21		
25X1A	Yerevan SAM Support Facility	40-19-35N 44-25-45E		Type I (rectangle)	UR 0325-21		
25X1A	Yerevan SAM Site B13-2	40-18-20N 44-01-50E		SA-2, possible star	UR 0325-21		
25X1A	Yerevan SAM Site B07-2	40-14-50N 44-13-50E		SA-2, link	UR 0325-22		

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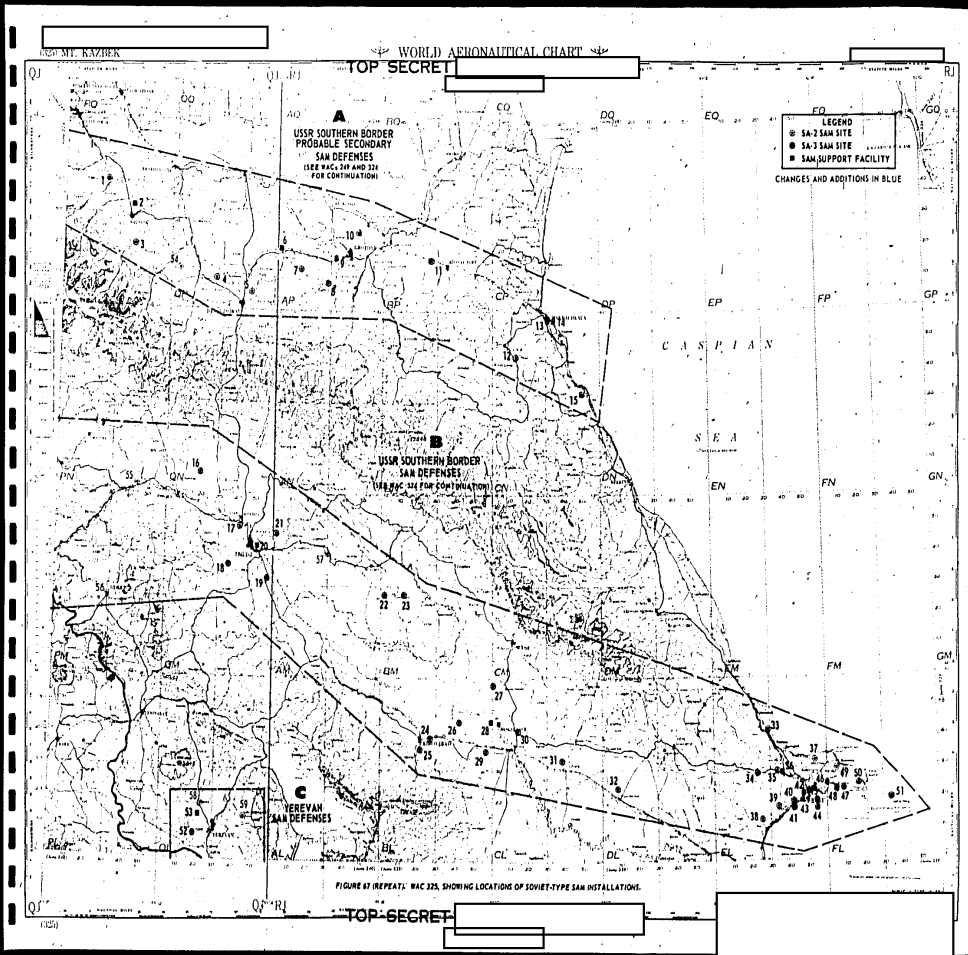
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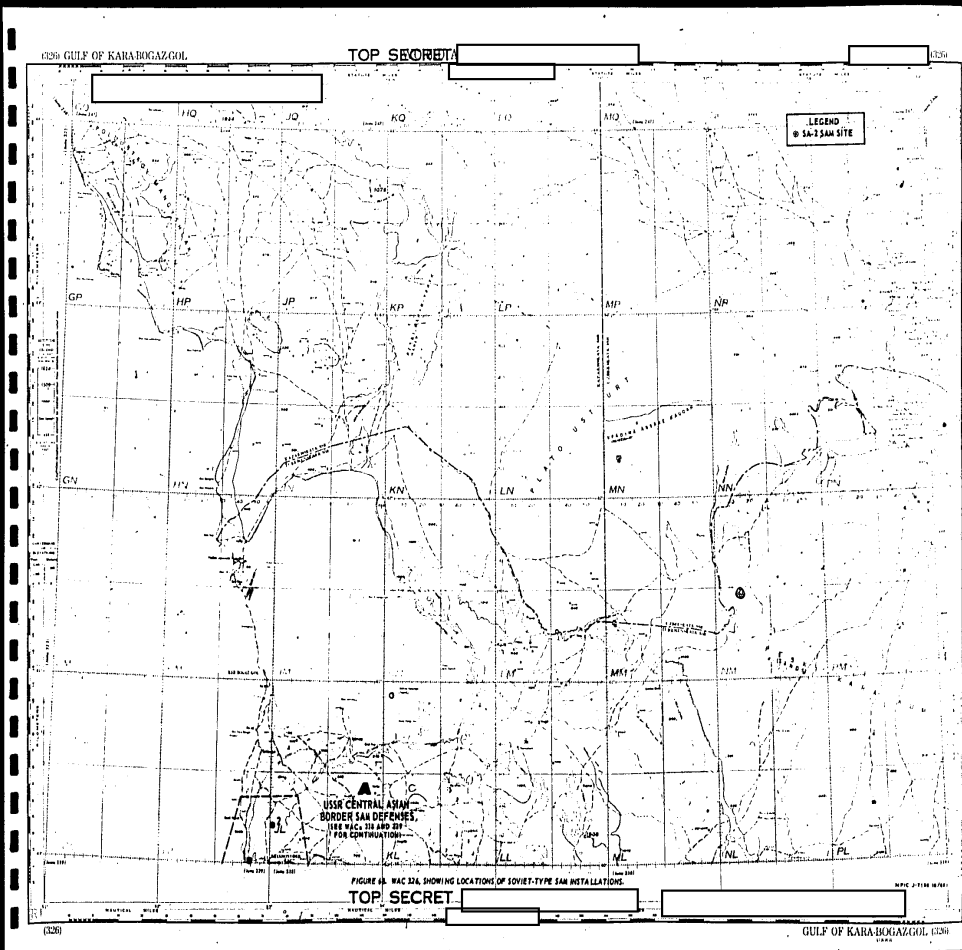
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Table 01. SAM Installations on RAC 310.

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Acquired	Mission & Date Installation Acquired	Remarks
A Central Asian Border SAM Defense (in defense of Central Asian border of USSR, and in defense of Krasnodar, largest export on the east coast of the Caspian Sea and major petroleum center with extensive FUL storage facilities)							
1	Krasnodar SAM Site A29-2	40-01-00N 42-16-30E	UR 0220-22	SA-2, daily			25X1D
2	Krasnodar SAM Site B01-2	40-13-15N 45-01-30E	UR 0220-22	SA-2, link			

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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 Acquired	Mission & Date Installation Acquired	Remarks
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A UNSR Central Asian Border SAM Defenses (in defense of the central Asian border of the UNSR, and specific targets: Tashkent, capital of Uzbek SSR, Headquarters Turkestan Military District, transportation center and industrial center-aircraft assembly, missile production; Chirchik, Air Defense Sector Headquarters, electronic/optical complex; Chirchik, lead smelting and refining plant, chemical plant; Bukhara, Legation Airfield, jet fighter and bomber base, and a superphosphate plant; Fozdar, motor vehicle assembly plant, agricultural machinery plant.

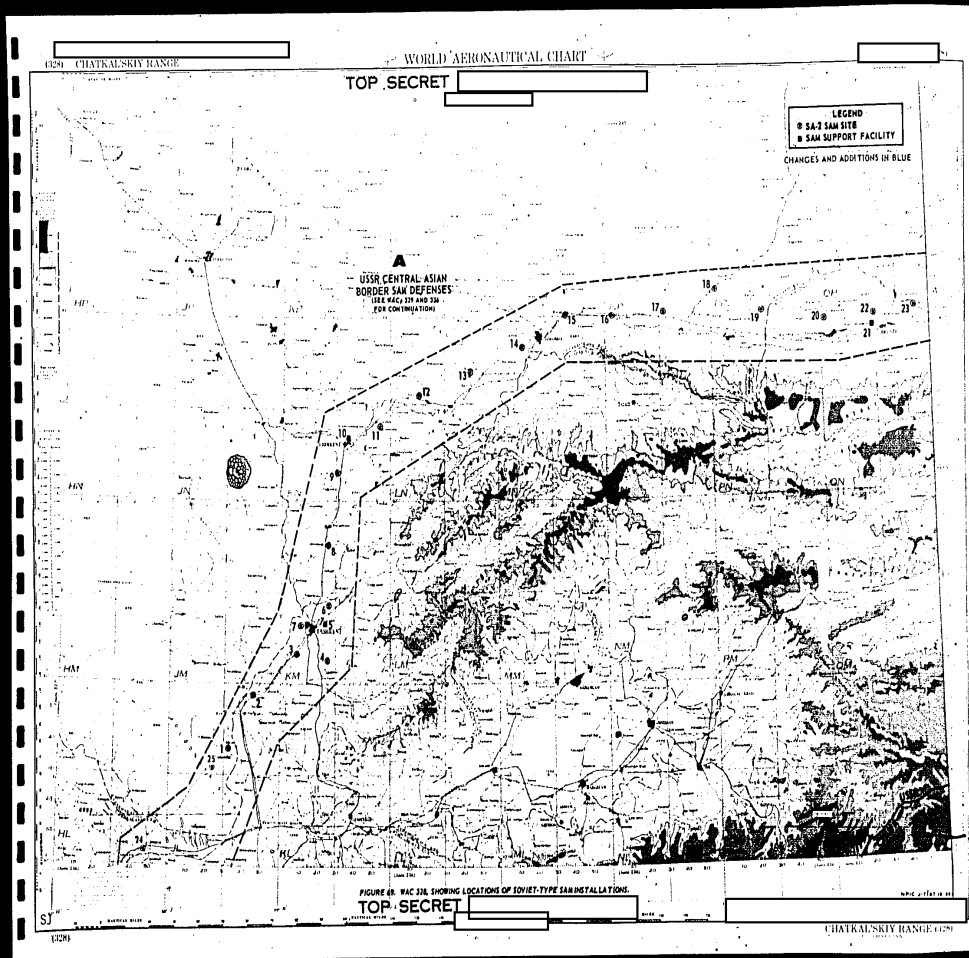
1	Slavyanka SAM Site A21-2	40-30-00N 66-42-30E	UR 0228-21	SA-2, link			
2	Tashkent SAM Site D235-2	40-57-10N 66-16-00E	UR 0228-17	SA-2, link			
3	Tashkent SAM Site D222-2	41-00-20N 69-06-30E	UR 0228-17	SA-2, link			
4	Tashkent SAM Site B15-2	41-00-30N 69-25-40E	UR 0228-17	SA-2, link			
5	Tashkent SAM Support Facility	41-20-20N 69-24-50E	UR 0228-17	Type I (rectangular)			
6	Tashkent SAM Site A06-2	41-25-20N 69-26-50E	UR 0228-17	SA-2, link			
7	Tashkent SAM Site A33-2	41-21-10N 69-16-50E	UR 0228-17	SA-2, link			
8	Leninsky SAM Site A07-2	41-46-20N 69-25-00E	UR 0228-12	SA-2, link			
9	Chirchik SAM Site B23-2	42-09-00N 69-31-10E	UR 0228-12	SA-2, link			
10	Chirchik SAM Support Facility	42-20-20N 69-37-30E	UR 0228-12	Type II (square)			
11	Chirchik SAM Site B06-2	42-21-45N 69-34-05E	UR 0228-12	SA-2, link			
12	Burnoye SAM Site C27-2	42-33-45N 70-16-45E	UR 0228-8	SA-2, configuration irregular			
13	Burnoye SAM Site A36-2	42-36-10N 70-15-00E	UR 0228-8	SA-2, link			
14	Dushanba SAM Site A25-2	42-50-20N 71-11-30E	UR 0228-8	SA-2, link			
15	Dushanba SAM Site B07-2	43-00-60N 71-38-35E	UR 0228-8	SA-2, link			
16	Lagovoy SAM Site C28-2	43-00-10N 72-04-50E	UR 0228-9	SA-2, link			
17	Lagovoy SAM Site A29-2	43-00-20N 72-01-10E	UR 0228-9	SA-2, link			
18	Lagovoy SAM Site B08-2	43-06-20N 73-05-10E	UR 0228-9	SA-2, link			
19	Karabaly SAM Site B29-2	42-54-00N 73-31-20E	UR 0228-10	SA-2, link			
20	Frans SAM Site C26-2	42-55-50N 74-02-45E	UR 0228-10	SA-2, link			
21	Frans SAM Support Facility	42-55-10N 74-08-40E	UR 0228-10	Type II (square)			
22	Frans SAM Site A35-2	42-58-25N 74-28-42E	UR 0228-10	SA-2, link			
23	Frans SAM Site B07-2	42-58-10N 72-51-20E	UR 0228-10	SA-2, link			
24	Dzhirgatal SAM Site A11-2	40-05-10N 67-10-50E	UR 0228-21	SA-2, configuration undetermined			
25	Slavyanka SAM Site B22-2	40-31-00N 66-24-00E	UR 0228-21	SA-2, link			

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Table 07. SAM Installations on WAC 389.

Item	Name, Site Designator, & DE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Negated	Remarks
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▲ UNSR Central Asian Border SAM Defenses (in defense of the Central Asian Border of the UNSR, 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 weapons production)

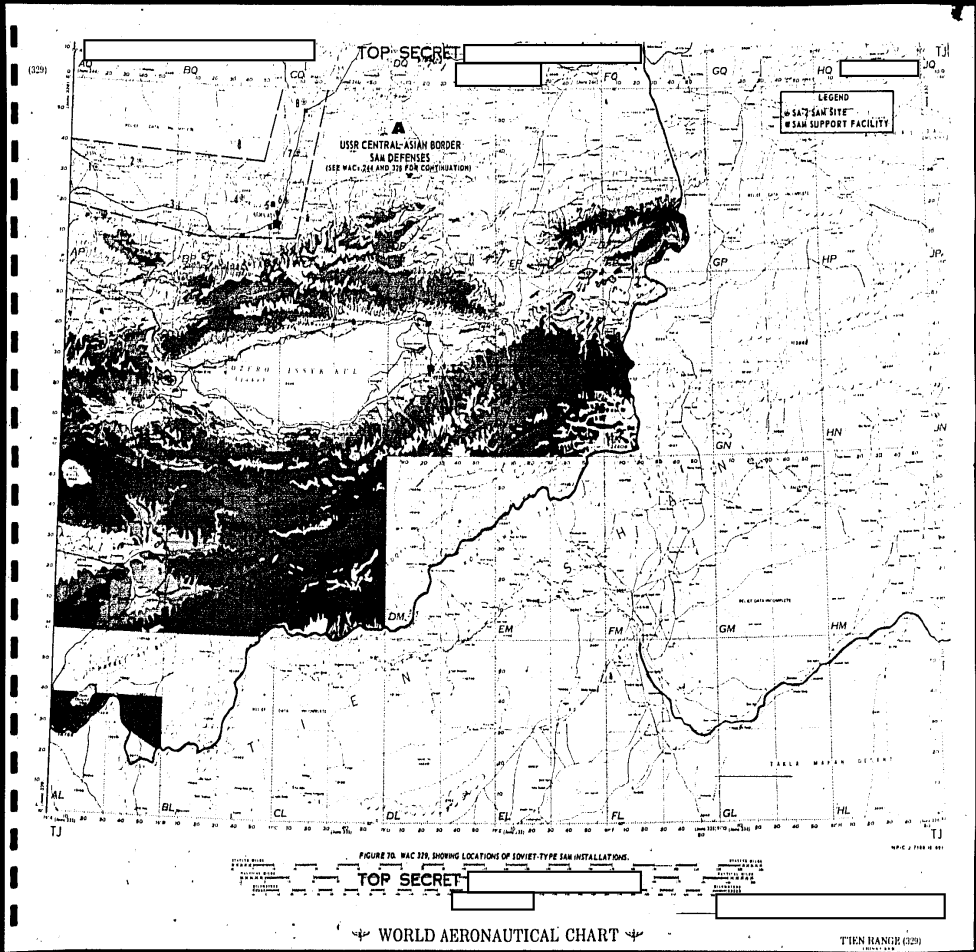
1	Otar SAM Site A15-2	43-51-00N 76-15-00E	UR 0229-1	S&2, link			25X1D
2	Otar SAM Site B09-2	43-35-20N 76-38-15E	UR 0329-1	S&2, configuration undetermined			
25X1A	Otar SAM Site D11-2	43-30-00N 76-01-00E	UR 0329-1	S&2, link			25X1D
25X1A	Alma-Ata SAM Site B31-2	43-20-00N 76-30-00E	UR 0329-2	S&2, link			
	Alma-Ata SAM Support Facility	43-22-20N 76-34-50E	UR 0329-2	Type II (square)			Located 0.5 nautical mile north-northwest of the support facility at 43-22-45N 76-34-25E is a secured motor pool area containing probable SAM-related equipment. It was first seen on [redacted]
8	Alma-Ata SAM Site A03-2	43-20-50N 77-01-19E	UR 0329-2	S&2, link			25X1D
7	Alma-Ata SAM Site C03-2	43-40-00N 77-00-00E	UR 0329-2	S&2, link			
6	IR SAM Site A30-2	43-55-80N 77-11-00E	UR 0329-2	S&2, link			

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Table 68. SAM Installations on WAC-308

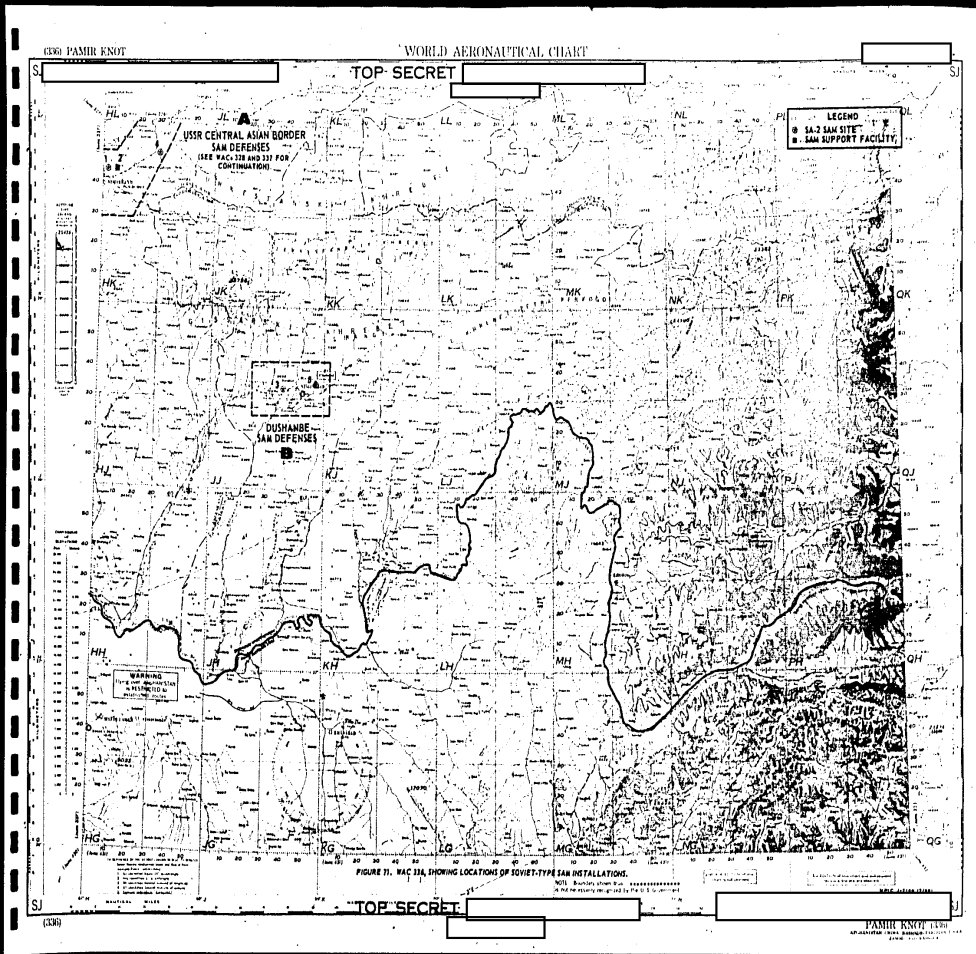
Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears †	Mission & Date Installation Negated †	Remarks
▲ USSR Central Asian Border SAM Defenses (in defense of the central Asian border of the USSR and Samarkand: a minor complex containing light industry)							
25X1A	Samarkand SAM Site A15-2, [redacted]	38-44-20N 67-30-40E	UR 0316-1	SA-2, probable link	[redacted]		25X1D
25X1A	Samarkand SAM Support Facility, [redacted]	38-44-12N 67-07-00E	UR 0316-1	Type II (square)			
25X1A	Samarkand SAM Site C07-2, [redacted]	38-30-41N 67-30-30E	UR 0316-1	SA-2, configuration undetermined			
■ 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)							
25X1A	Dushanbe SAM Site A27-2, [redacted]	38-33-00N 68-38-00E	UR 0316-T	SA-2, configuration undetermined	[redacted]		25X1D
5	Dushanbe SAM Site A06-2, [redacted]	38-32-35N 68-56-20E	UR 0316-T	SA-2, link	[redacted]		

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Table 65. SAM Installations on WAC 337

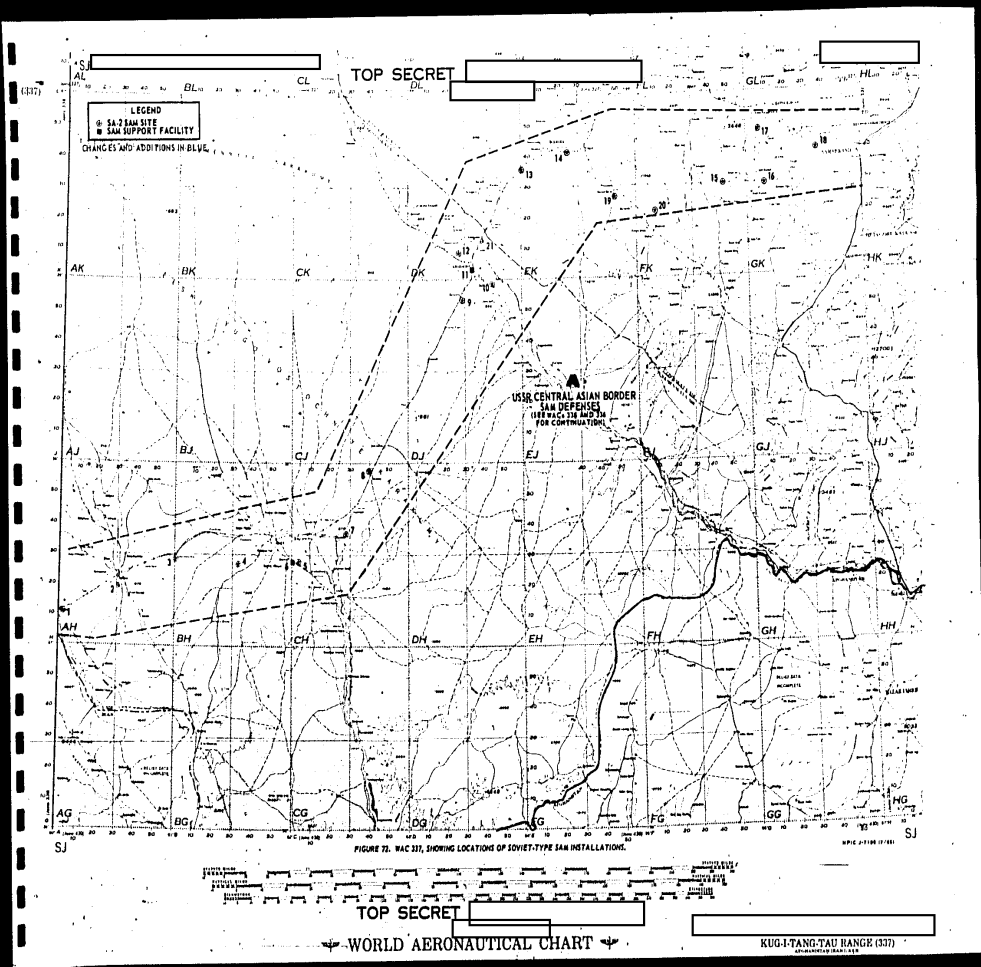
Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A USSR Central Asian Border SAM Defenses (in defense of the central Asian border of the USSR, and specific targets: Mary, several military airfields and POL storage; Bayram-Ali IRBM Complex; Chantshou, agricultural, transportation, and light industrial center; Kurgacha MRBM Complex)							
1	25X1A Toshkov SAM Site C24-2	[REDACTED]	37-11-28N 69-03-10E	UR 0337-16	SA-2, configuration undetermined	[REDACTED]	25X1D
2	Toshkov SAM Site A19-2	[REDACTED]	37-19-45N 69-32-30E	UR 0337-16	SA-2, configuration undetermined	[REDACTED]	
3	Toshkov SAM Site C09-2	[REDACTED]	37-20-20N 61-01-03E	UR 0337-16	SA-2, configuration undetermined	[REDACTED]	
4	May SAM Site B24-2	25X1A [REDACTED]	37-27-00N 61-33-35E	UR 0337-16	SA-2, configuration undetermined	[REDACTED]	
5	Bayram-Ali SAM Site B21-2	[REDACTED]	37-28-25N 62-01-40E	UR 0337-17	SA-2, configuration undetermined	[REDACTED]	
6	May SAM Support Facility	[REDACTED]	37-26-40N 62-01-10E	UR 0337-17	Type II (square)	[REDACTED]	
7	Bayram-Ali SAM Site B09-2	[REDACTED]	37-37-30N 62-28-50E	UR 0337-16	SA-2, configuration undetermined	[REDACTED]	
8	Bayram-Ali SAM Site D03-2	[REDACTED]	37-38-20N 62-40-00E	UR 0337-16	SA-2, configuration undetermined	[REDACTED]	
9	Chantshou SAM Site D20-2	[REDACTED]	35-34-40N 65-29-40E	UR 0337-3	SA-2, link	[REDACTED]	
10	Chantshou SAM Site D18-2	[REDACTED]	35-38-40N 65-45-20E	UR 0337-3	SA-2, link	[REDACTED]	
11	Chantshou SAM Support Facility	[REDACTED]	35-32-00N 65-34-00E	UR 0337-3	Type II (square)	[REDACTED]	
12	Chantshou SAM Site D10-2	[REDACTED]	35-06-00N 65-27-50E	UR 0337-3	SA-2, link	[REDACTED]	
13	Bukhara SAM Site C25-2	[REDACTED]	35-35-00N 64-00-35E	UR 0337-3	SA-2, probable link	[REDACTED]	
14	Bukhara SAM Site A18-2	[REDACTED]	35-41-20N 64-24-15E	UR 0337-4	SA-2, link	[REDACTED]	
15	Kurgacha MRBM SAM Site B23-2	[REDACTED]	35-30-00N 65-46-20E	UR 0337-5	SA-2, link	[REDACTED]	
16	Kurgacha MRBM SAM Site B18-2	[REDACTED]	35-30-00N 66-08-00E	UR 0337-5	SA-2, link	[REDACTED]	
17	Kurgacha MRBM SAM Site B04-2	[REDACTED]	35-47-40N 66-08-00E	UR 0337-5	SA-2, link	[REDACTED]	
18	Samarkand SAM Site B28-2	[REDACTED]	35-40-00N 66-26-00E	UR 0337-5	SA-2, link	[REDACTED]	
19	Bukhara SAM Site C14-2	[REDACTED]	35-28-20N 64-48-00E	UR 0337-4	SA-2, configuration undetermined	[REDACTED]	
20	25X1A 25X1A Bukhara SAM Site E18-2	[REDACTED]	35-20-10N 65-10-30E	UR 0337-4	SA-2, configuration undetermined	[REDACTED]	25X1D One long building in the support area is visible on [REDACTED] however, the site cannot be identified. The alle access road is visible on [REDACTED] although the site cannot be identified.
21	Chantshou SAM Site A03-2	[REDACTED]	35-12-00N 65-29-00E	UR 0337-3	SA-2, data	[REDACTED]	

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Table 70. SAM Installations on WAC 338

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appared	Mission & Date Installation Negated	Remarks
<p>A 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; Nohit Dag Airfield and Babolol Airfield-mission bomber and jet fighter bases; Nohit Airfield, jet fighter base; Ashkhabad, capital of Turkmen SSR, large complex containing several major military installations, and several military airfields)</p>							
25X1A	25X9						
25X1A	Krasnovodsk SAM Site B10-2	39-50-54N 55-17-50E	UR 0336-1	SA-2, fan			
25X1A	Nohit Dag SAM Site B10-4	39-50-20N 54-11-53E	UR 0336-1	SA-2, configuration undetermined			
25X1A	Nohit Dag SAM Support Facility	39-28-00N 54-10-50E	UR 0336-1	Type II (square)			
25X1A	Nohit Dag SAM Site B23-2	39-10-15N 54-09-10E	UR 0336-1	SA-2, fan			
25X1A	Kan Dag SAM Site A22-2	39-11-40N 54-53-43E	UR 0336-7	SA-2, configuration undetermined			
25X1A	Karandak SAM Site A11-2	39-18-30N 55-30-07E	UR 0336-2	SA-2, configuration undetermined			
25X1A	Kizyl-Arvat SAM Site B10-2	39-00-50N 54-35-53E	UR 0336-8	SA-2, configuration undetermined			
25X1A	Kizyl-Arvat SAM Site A33-2	39-02-05N 56-18-00E	UR 0336-8	SA-2, configuration undetermined			
25X1A	Kizyl-Arvat SAM Support Facility	38-57-20N 56-18-10E	UR 0336-8	Type II (square)			
25X1A	Kizyl-Arvat SAM Site B12-2	38-42-10N 56-45-20E	UR 0336-8	SA-2, configuration undetermined			
25X1A	Bakharlov SAM Site C31-2	38-43-05N 57-02-40E	UR 0336-8	SA-2, configuration undetermined			
25X1A	Bakharlov SAM Site A03-2	38-29-00N 57-27-05E	UR 0336-8	SA-2, configuration undetermined			
25X1A	Bakharlov SAM Site B13-2	38-19-25N 57-41-50E	UR 0336-14	SA-2, configuration undetermined			
25X1A	Ashkhabad SAM Site B12-2	38-06-25N 58-09-30E	UR 0336-14	SA-2, configuration undetermined			
25X1A	Ashkhabad SAM Site A03-2	37-59-10N 58-25-30E	UR 0336-14	SA-2, configuration undetermined			
25X1A	Ashkhabad SAM Support Facility	37-56-20N 58-21-10E	UR 0336-14	Type II (square)			
25X1A	Ashkhabad SAM Site C11-2	37-18-25N 58-34-10E	UR 0336-15	SA-2, configuration undetermined			
25X1A	Artyk SAM Site A51-2	37-37-25N 59-18-40E	UR 0336-15	SA-2, configuration undetermined			
25X1A	Kashka SAM Site A01-2	37-22-40N 59-37-30E	UR 0336-20	SA-2, configuration undetermined			
25X1A	Ashkhabad SAM Training Site A26-2	37-55-20N 58-16-25E	UR 0336-14	SA-2, configuration undetermined			
25X1A	Ashkhabad SAM Site A06-2	37-51-40N 58-29-10E	UR 0336-14	SA-2, configuration undetermined			
25X1A	Kashka SAM Support Facility	37-21-40N 59-37-00E	UR 0336-20	Type II (square)			

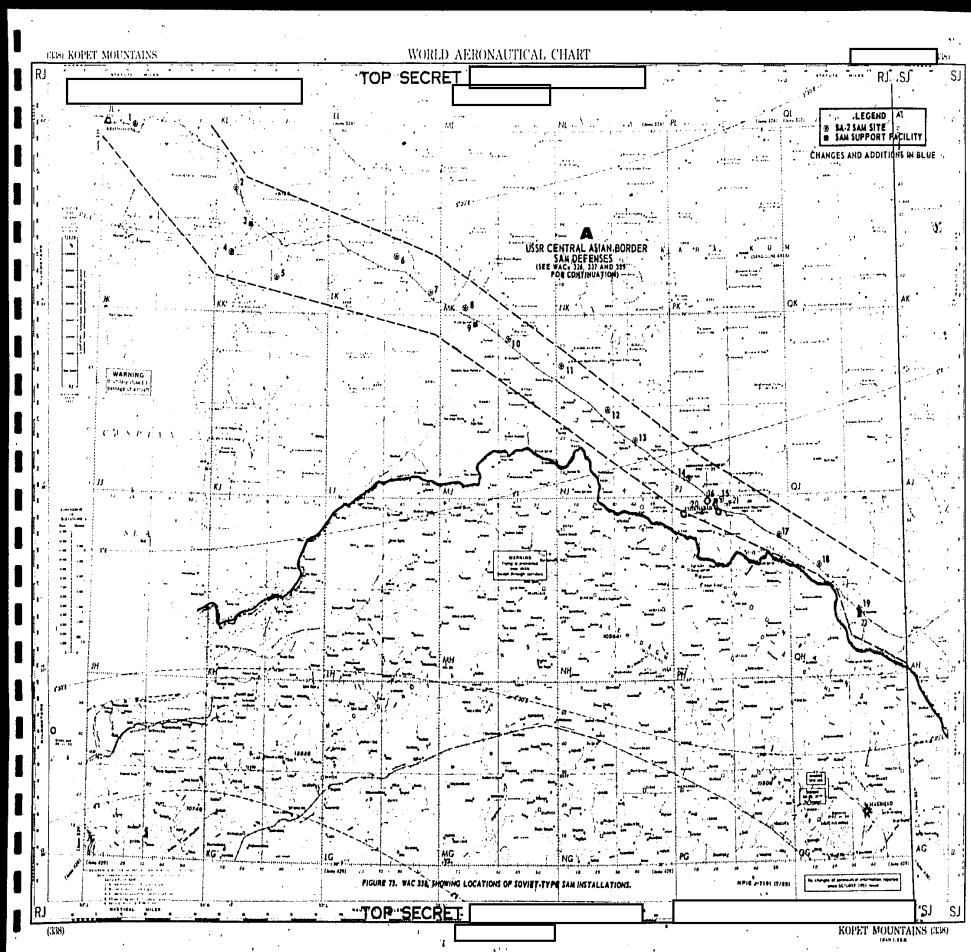
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Table 71. SAM Installations on WAC 339

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Negated	Remarks
1	All Bayramly SAM Defenses (in defense of Saljanty air defense sector headquarters and the central Asian border of USSR)						
	All Bayramly SAM Site A17-2, [redacted]	39-49-30N 48-58-00E	UR 0339-2	S&2, fan			25X1D
2	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; Nohit Dag Airfield and Dabulob Airfield, medium bomber bases; Nohit Dag [redacted] [redacted] Kizyl-Arvat Airfield, jet fighter base; Ashkhabad, capital of Turkmen SSR, large complex containing several major military installations, [redacted] and several military airfields)						
	Krasnovodsk SAM Site A20-2, [redacted]	39-53-00N 52-38-00E	UR 0339-2	S&2, fan			25X1D
	Krasnovodsk SAM Support Facility, [redacted]	39-59-10N 52-57-25E	UR 0339-2	Type II (square)			25X9

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LEGEND
● SA-2 SAM SITE
■ SAM SUPPORT FACILITY

▲ ALL DAY/RAILY SAM DEFENSES

■ USSR CENTRAL ASIAN BORDER SAM DEFENSES
18° WAC 318 AND 319
19° CONTINUATION

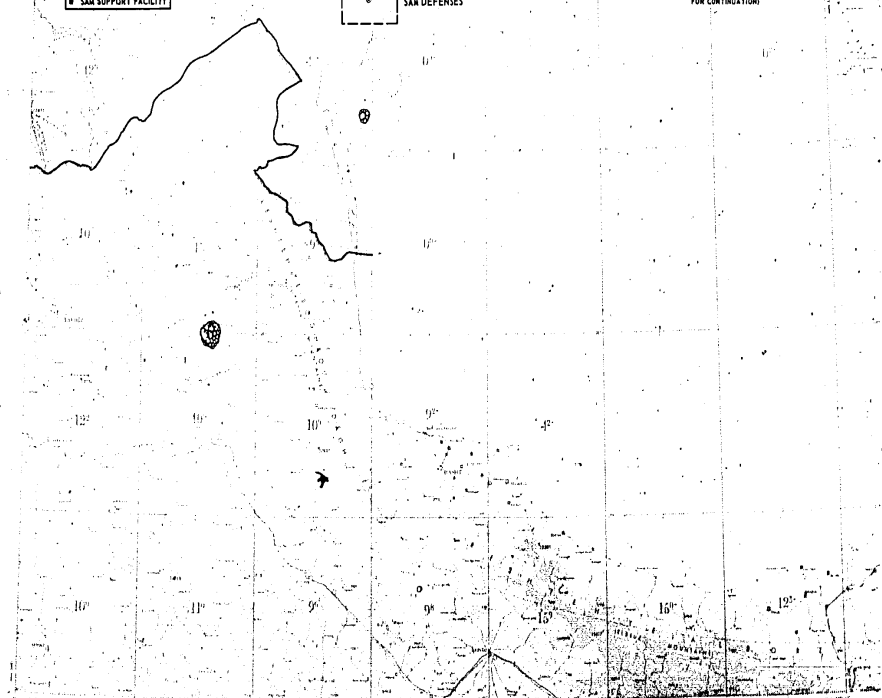


FIGURE 76. WAC 319, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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SARAJAN MOUNTAIN
WAC 319

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Table 72. SAM Installations on WAC 910

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref.	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
1	Yerevan SAM Site B10-2, [redacted]	38-59-00N 44-37-00E	UR 0310-5	SA-2, probable link	[redacted]		

▲ Yerevan SAM Defenses (in defense of Yerevan: major industrial complex including synthetic rubber, chemical, electrical machinery, and aluminum production)

25X1A

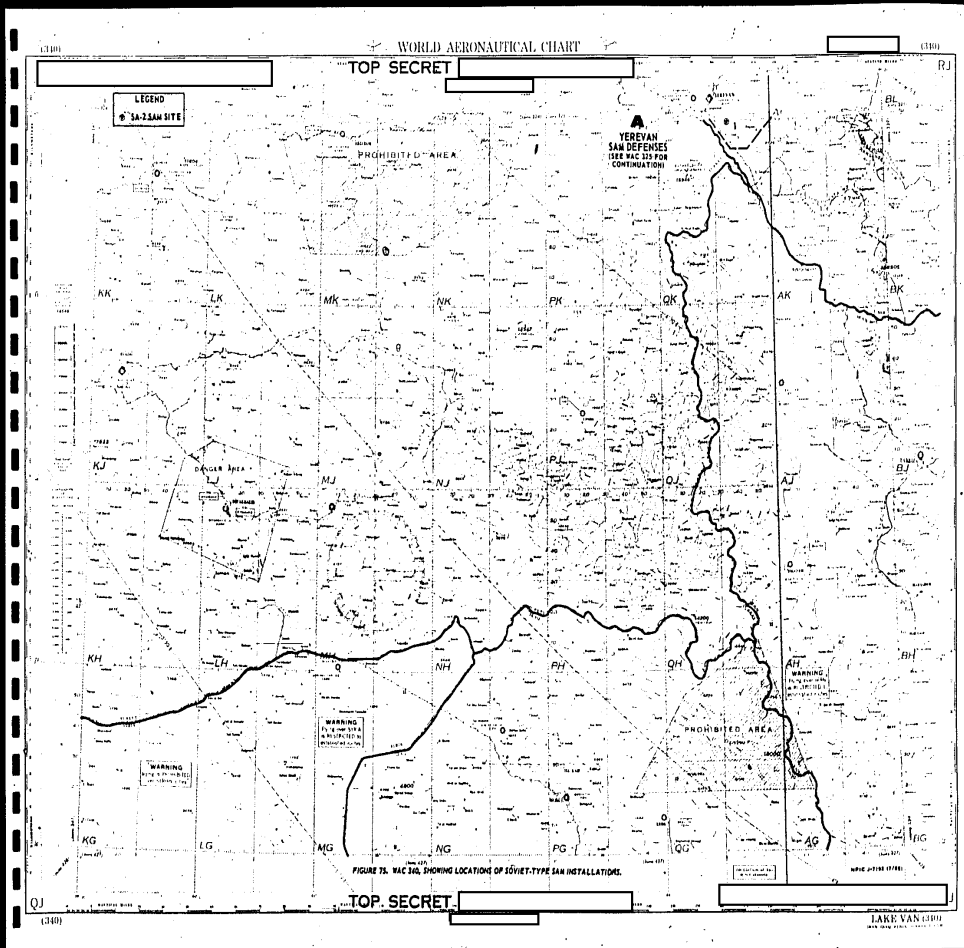
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Table 12. SAM Installations on WAC 280

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation (negated)	Remarks
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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;ampo Naval Base and shipyards may also be included within this defense area)

25X1A

Pyongyang SAM Site B17-2, [redacted] 38-46-00N 125-07-30E KN 0360-7 S1-2, link
 Pyongyang Probable SAM Assembly Area, [redacted] 38-51-10N 123-49-30E KN 0360-8 See remarks

25X1A

25X1D

This installation is not a typical SAM support facility. It consists of [redacted] groups of SAM equipment parked in open storage areas.

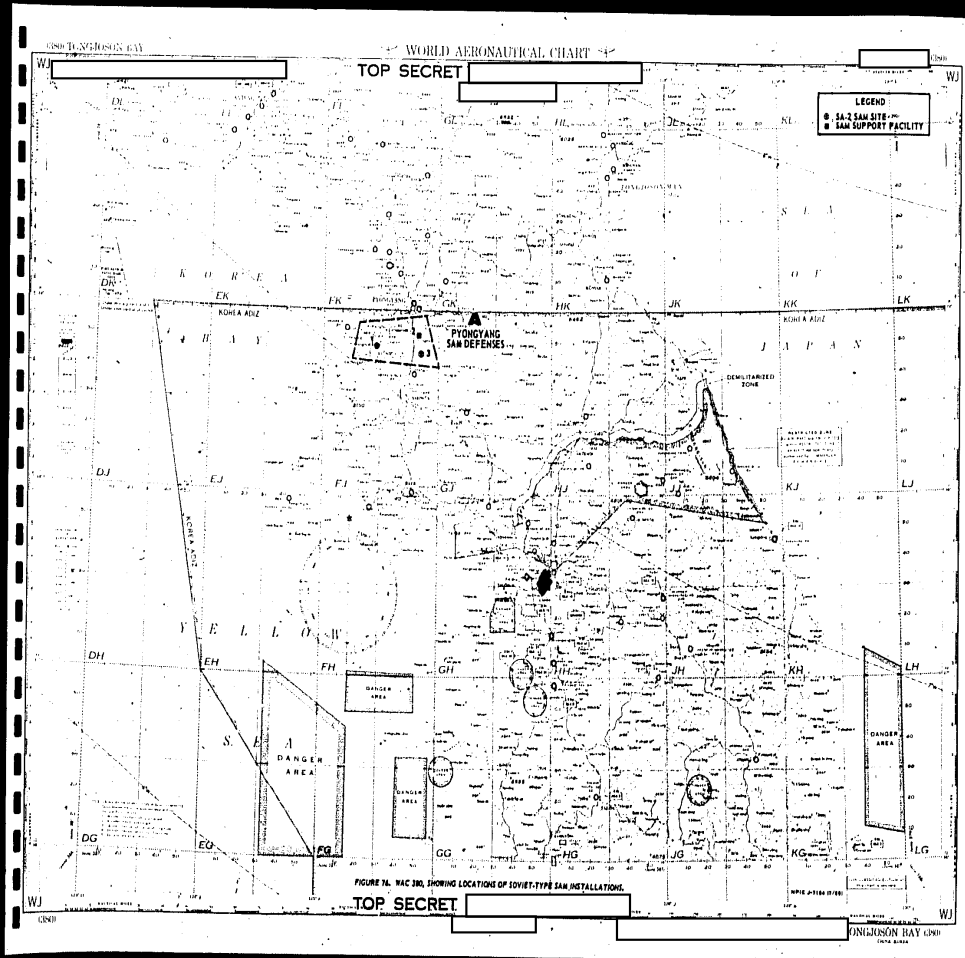
25X1A

Pyongyang SAM Site B17-2, [redacted] 38-45-10N 124-51-00E KN 0360-8 S1-2, link

25X1C

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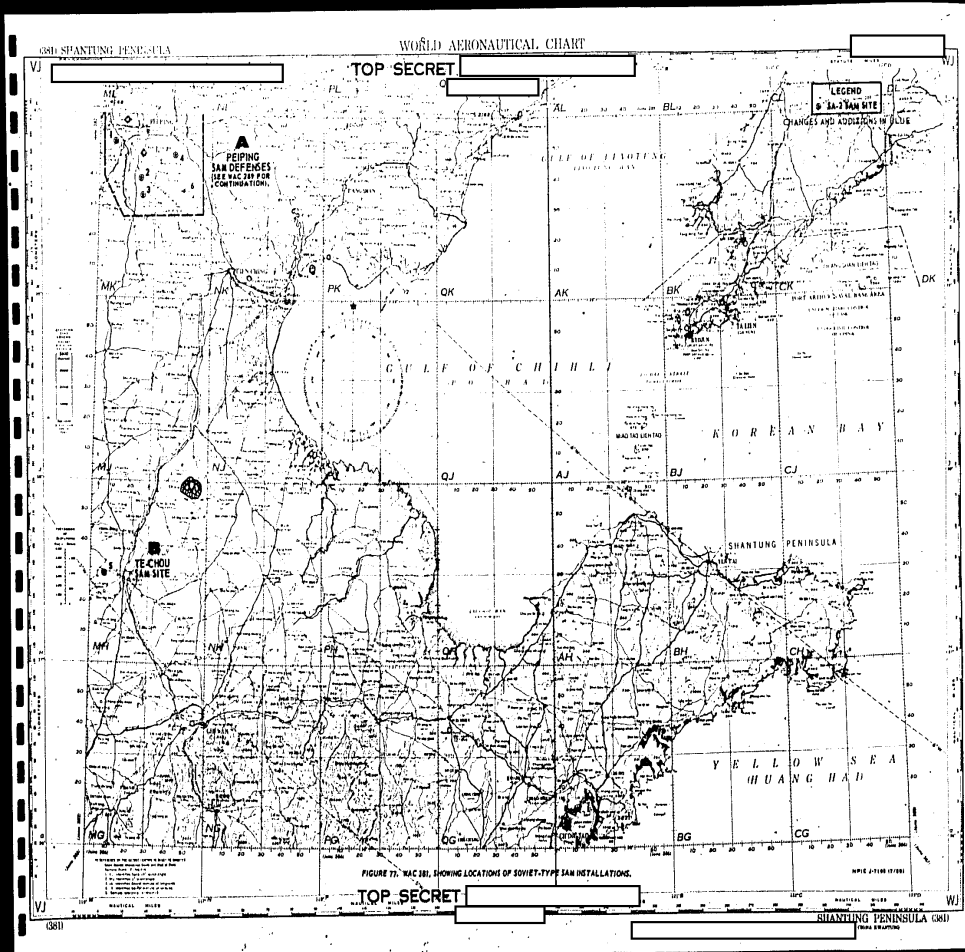
Table 74. SAM Installations on WAC 301

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears ¹	Mission & Date Installation Negated ¹	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)							
25X1A	1 Peiping SAM Site B39-2	39-31-30N 116-09-00E	CH 0351-1	SA-2, link			25X1D
	2 Peiping SAM Site B18-2	39-30-30N 116-05-30E	CH 0351-1	SA-2, star			
	3 Peiping SAM Site C18-2	39-34-00N 116-24-00E	CH 0351-1	SA-2, link			
	4 Peiping SAM Site B12-2	39-47-34N 116-41-35E	CH 0351-1	SA-2, link			
	5 Peiping SAM Site C12-2	39-35-10N 116-45-50E	CH 0351-1	SA-2, star			
B Te-hsien (China) SAM Site (in defense of Kueicheng Airfield—a large military airfield)							
	5 Te-hsien SAM Site A30-9	37-30-30N 116-00E	CH 0341-18	SA-2, configuration undetermined			This SAM site appears to have only 3 launch positions located on a circular road.

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Table 76. SAM Installations on WAC-383

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Negated	Remarks
A	Chung-wai SAM Site (defensive role undetermined)						
1	Chung-wai SAM Site C024, [redacted]	37-54N 103-17E	CH 0385-13	SA-2, configuration undetermined	[redacted]		25X1D Due to lack of map details, this site has not been plotted to records.

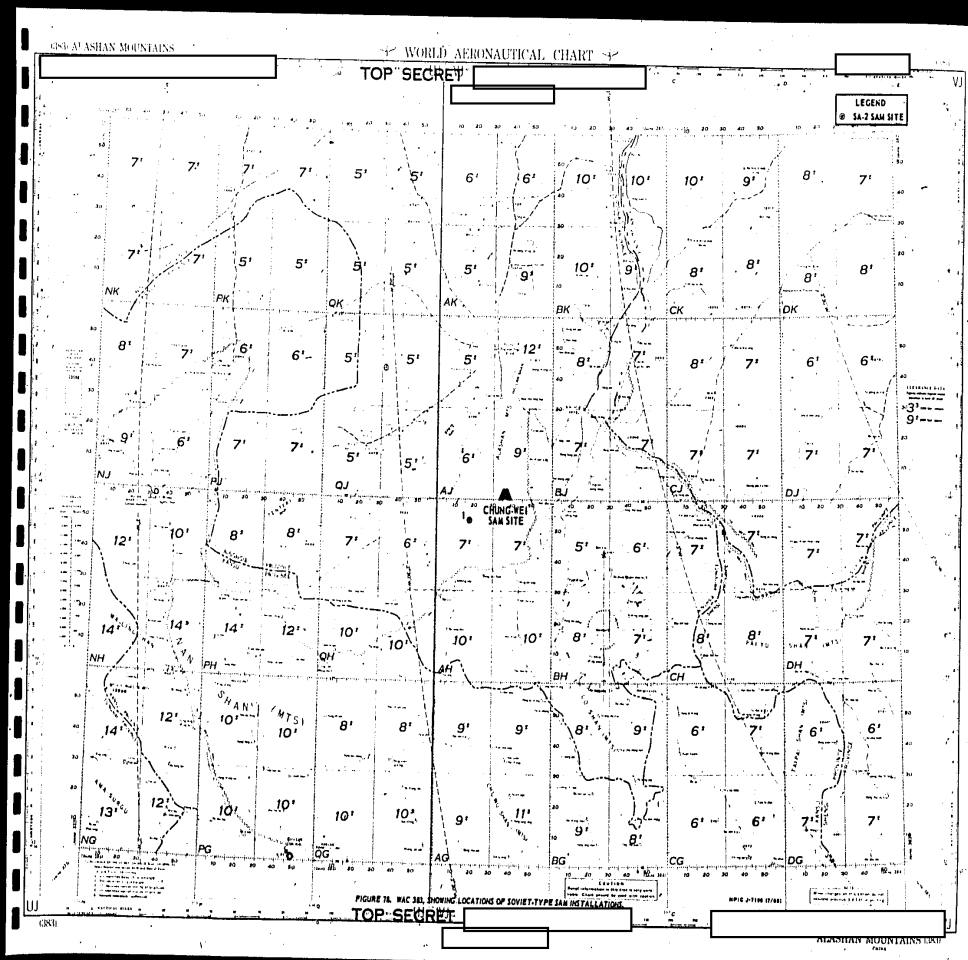
25X1A

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Table 76. SAM Installations on WAC 334

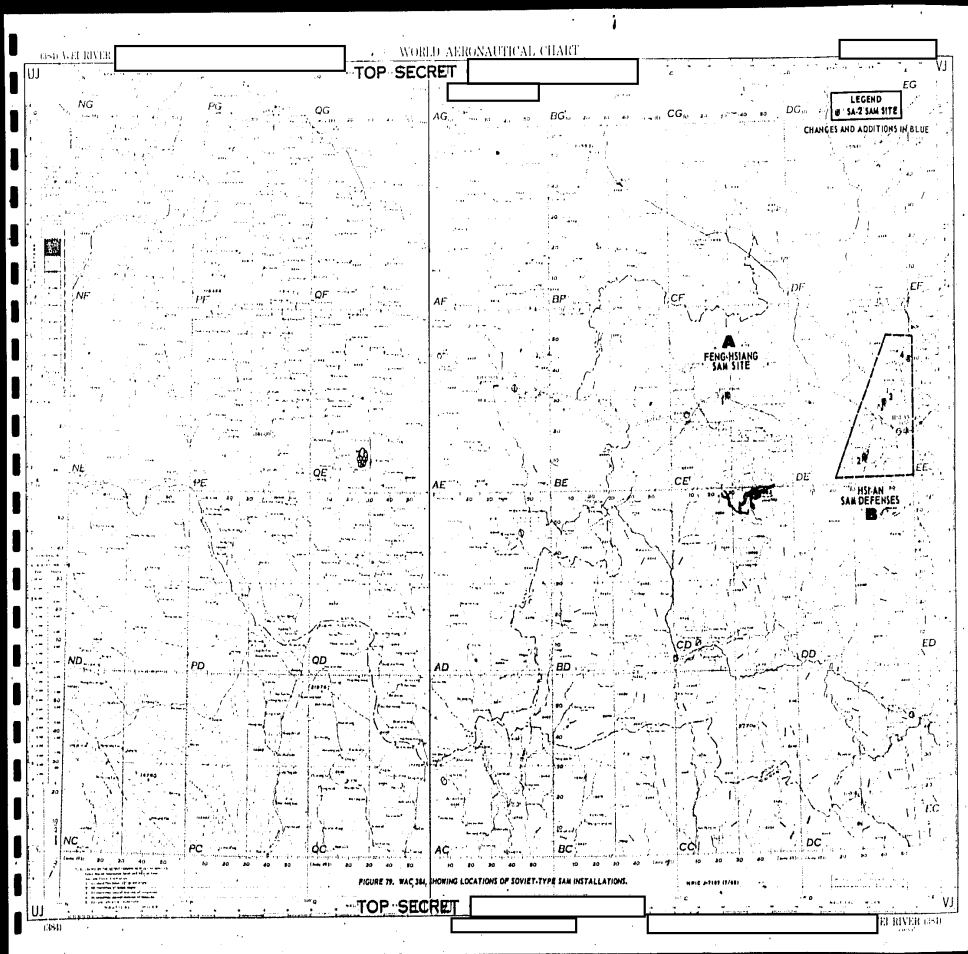
Item	Name, Site Designator, & BE No.	Coordinates	Country & Map Ref.	Type & Configuration	Mission & Date First Appointed	Mission & Date Installation Negated	Remarks
▲	Feng-hsiang SAM Site (defensive only undetermined)						25X1D
1	Feng-hsiang SAM Site A21-9, [redacted]	24-41-30N 107-25-00E	CH 024-9	SA-2, configuration undetermined			25X1A
■	Hsien SAM Defenses (in defense of Hsien)						
2	Hsien SAM Site C24-9, [redacted]	24-09-22N 108-54-30E	CH 024-13	SA-2, configuration undetermined			This installation was deleted in SAM [redacted]
3	Hsien SAM Site B24-9, [redacted]	24-07-30N 108-54-30E	CH 024-10	SA-2, configuration undetermined			This installation was deleted in SAM [redacted]
4	Hsien SAM Site, [redacted]	24-10-40N 108-50-50E	CH 024-10	SA-2, configuration undetermined			This installation was deleted in SAM [redacted]
							This SAM site originally consisted of just 2 launch positions. When seen on [redacted] an additional three launch positions were being added.

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

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Table 77. SAM Installations on WAC 487

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Negated	Remarks
1	Alu Ghraigh SAM Site	33-10-00N 41-15-00E	IQ 427-10	SA-2, see remarks			This site consists of a paved square perimeter road and 7 paved spaces 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.

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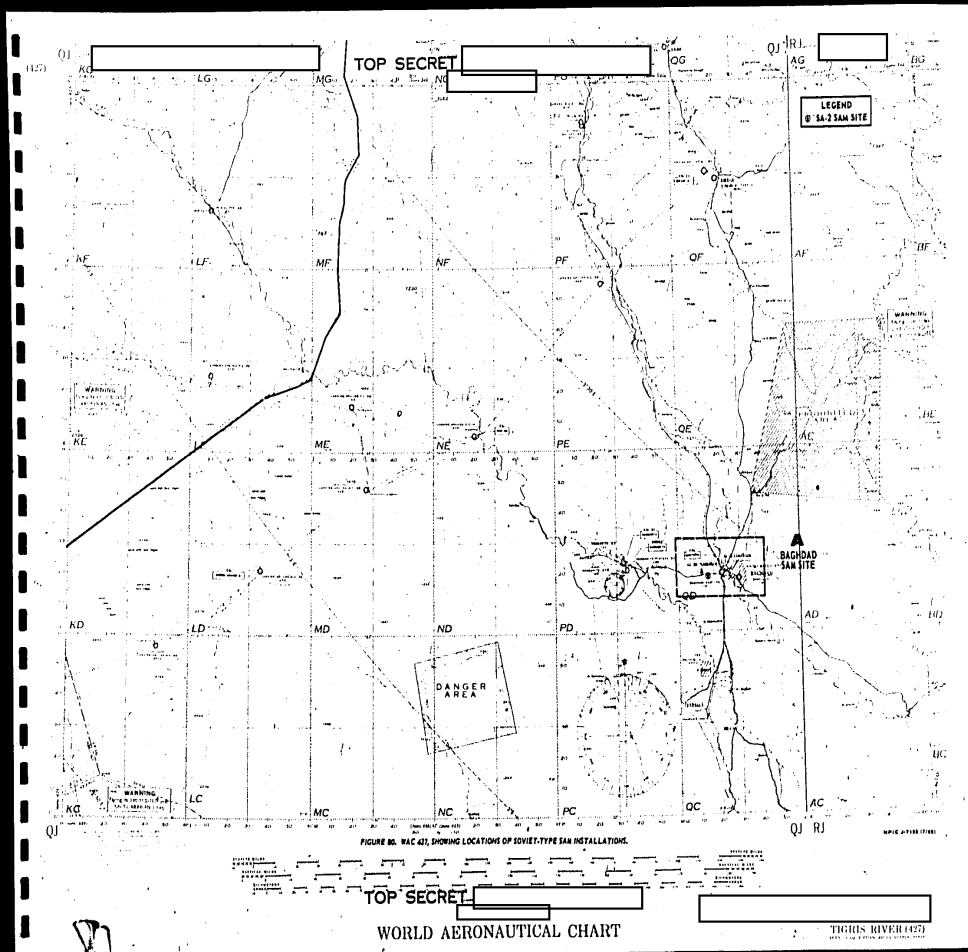
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LEGEND
○ SA-2 SAM SITE

DANGER AREA

BAGHDAD SAM SITE

FIGURE NO. WAC 425, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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WORLD AERONAUTICAL CHART

TIGRIS RIVER (425)
WAC 425 (1961)

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Table 78. SAM Installations on WAC 447

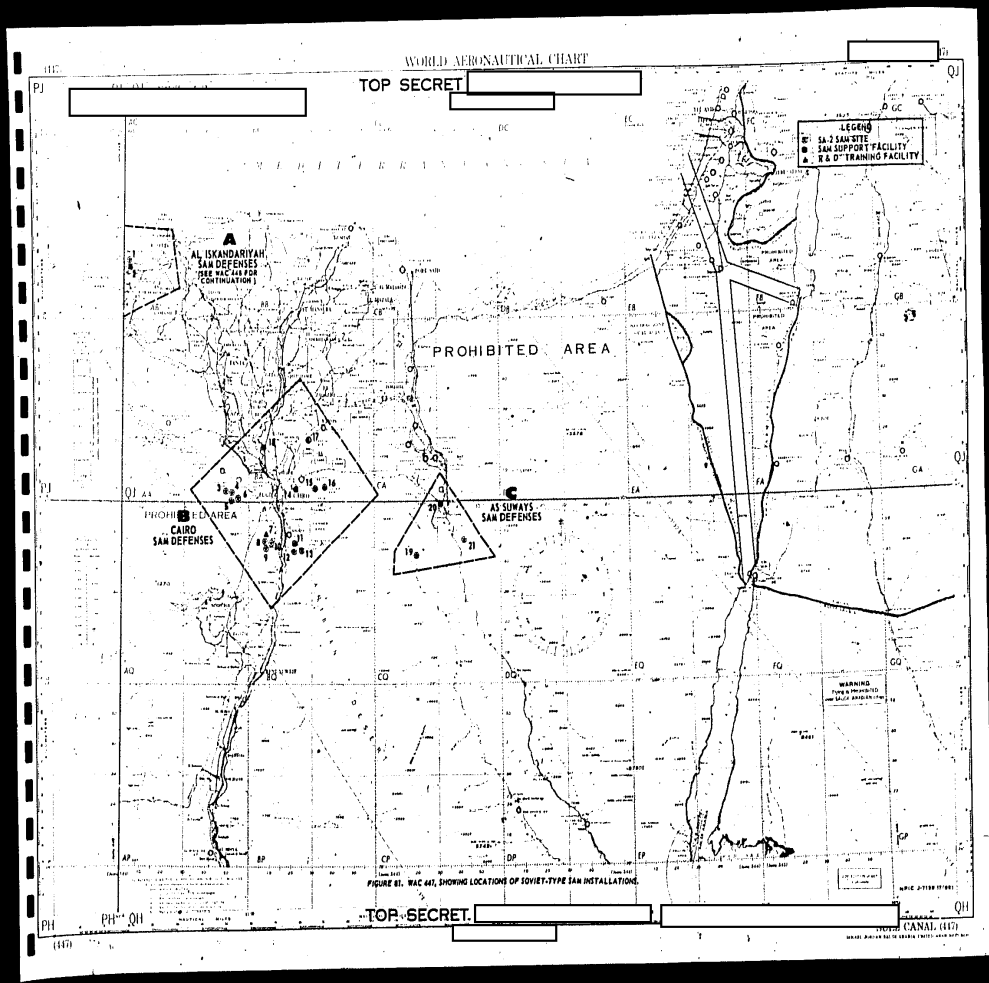
Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appear	Mission & Date Installation Negated	Remarks
A Al Iskandariyah (Egypt) SAM Defenses (in defense of Al Iskandariyah, second largest city in Egypt; contains numerous military installations, including the naval base which serves as headquarters for the Egyptian Navy; shipping, port facilities, industrial installations, and POL storage areas)							
25X1A	Al Iskandariyah SAM Site B03-2	31-18-00N 30-03-20E	EG 0117-4	SA-2, configuration undetermined			25X1D
25X1A	Al Iskandariyah SAM Support Facility	31-18-00N 30-03-20E	EG 0117-4	Type II (square)			
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)							
25X1A	Cairo SAM Site C27-2	30-02-30N 30-30-03E	EG 0117-11	SA-2, link			This facility consists of 2 SA-2 sites of undetermined configuration, and one probable SA-2 site.
25X1A	Cairo SAM Site A1 B27-2	30-02-45N 30-32-20E	EG 0117-11	SA-2, configuration undetermined			
25X1A	Cairo SAM Site A1 B27-2	30-02-00N 30-32-30E	EG 0117-11	SA-2, configuration undetermined			
25X1A	Cairo SAM Site B27-2	30-01-30N 30-35-20E	EG 0117-11	SA-2, link			
25X1A	Dokki SAM Training Facility	29-48-12N 31-08-00E	EG 0117-11	See remarks			
25X1A	Cairo SAM Site B21-2	29-48-00N 31-09-00E	EG 0117-11	SA-2, link			
25X1A	Cairo SAM Site A1 B27-2	29-46-00N 31-09-10E	EG 0117-11	SA-2, configuration undetermined			
25X1A	Cairo SAM Site A1 B31-2	29-47-00N 31-09-00E	EG 0117-11	SA-2, configuration undetermined			
25X1A	Cairo SAM Site B17-2	29-43-00N 31-01-00E	EG 0117-12	SA-2, link			
25X1A	Cairo Alternate SAM Site	29-44-00N 31-01-30E	EG 0117-12	SA-2, configuration undetermined			
25X1A	Cairo Alternate SAM Site	29-44-00N 31-02-10E	EG 0117-12	SA-2, configuration undetermined			
25X1A	Cairo SAM Support Facility	30-04-10N 31-02-30E	EG 0117-12	Type II (square)			
25X1A	Cairo SAM Site E08-2	30-04-25N 31-31-43E	EG 0117-12	SA-2, configuration undetermined			
25X1A	Cairo SAM Site B03A-2	30-03-15N 31-38-20E	EG 0117-12	SA-2, configuration undetermined			
25X1A	Cairo SAM Site B01-2	30-38-30N 31-28-10E	EG 0117-12	SA-2, link			
25X1A	Cairo SAM Site B33-2	30-17-25N 31-07-10E	EG 0117-12	SA-2, link			
C As Suwayy (Egypt) SAM Defenses (in defense of the Suez Canal and As Suwayy; a large complex containing port facilities, shipping, POL refineries and storage, a naval base, and several military installations)							
25X1A	As Suwayy SAM Site B22-2	29-43-20N 32-20-43E	EG 0117-12	SA-2, configuration undetermined			25X1D
25X1A	As Suwayy SAM Support Facility	29-38-32N 32-31-30E	EG 0117-13	Type II (square)			
25X1A	As Suwayy SAM Site B13-2	29-48-10N 32-42-30E	EG 0117-13	SA-2, link			

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Table 72. SAM Installations on WAC 448

Item	Name, Site Designation, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Negated ¹	Remarks
1	Al Iskandariyah (Egypt) SAM Defense (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; airport, post facilities, industrial installations and FUL storage areas)	31-05-10N 29-45-20E	EG 0148-10	SA-2, probable fan			25X1D

25X1A

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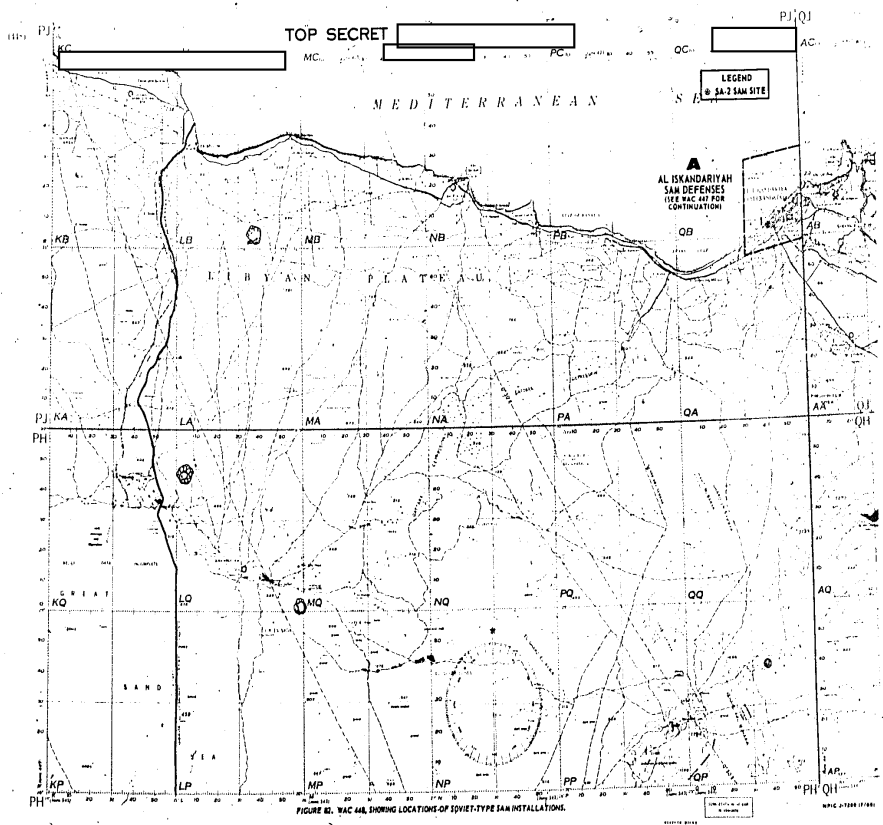


FIGURE 81. PAC AIA, SHOWING LOCATIONS OF SOVIET-TYPE SAM INSTALLATIONS.

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WORLD AERONAUTICAL CHART

LIBYAN PLATEAU (118)

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Table 40. SAM Installations on WAC 688

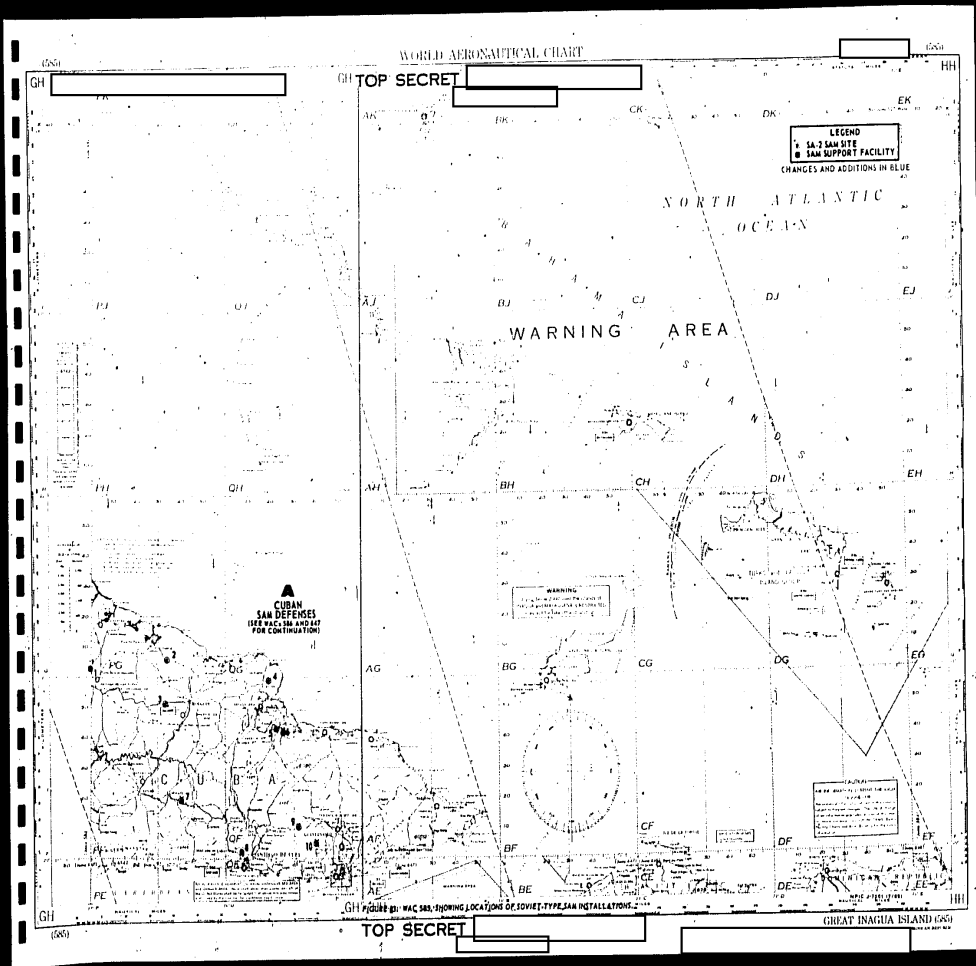
Item	Name, Site Designator, & BE/No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Negated	Remarks
<p>▲ Cuban SAM Defense (with the exception of the Havana and Santa Clara areas, the SAM sites in Cuba cannot easily be grouped into defense 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>							
25X1A	Victoria de las Tinas SAM Assembly Area, [redacted]	21-01-00N 71-00-00W	CU 0545-16	See remarks			<p>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.</p> <p>This site is in defense of Holguin Airfield and several military installations in the area. This site is probably in defense of the Base Naval Installation, Hq Eastern Naval District and the Base Cruise-Missile Installation. This site may be in defense of the copper and zinc complex at Niara.</p> <p>This site has been abandoned. It is no longer considered a SAM site.</p> <p>This site has been abandoned. It is no longer considered a SAM site.</p> <p>This is not a standard SAM support facility. It consists of equipment parked in the open around a random assortment of buildings. 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. This site has been abandoned. It is no longer considered a SAM site.</p>
25X1A	Chaparra SAM Site [redacted]	21-07-20N 70-20-20W	CU 0545-16	SA-2, star	25X1D		
25X1A	Holguin SAM Site B272, [redacted]	20-52-52N 70-27-20W	CU 0545-16	SA-2, tank			
25X1A	Los Angeles SAM Site A064, [redacted]	21-00-00N 75-41-41W	CU 0545-16	SA-2, probable star			
25X1A	Proton SAM Site A112, [redacted]	20-44-17N 75-50-55W	CU 0545-22	SA-2, star			
25X1A	Nicarao SAM Site [redacted]	20-48-07N 76-43-05W	CU 0545-22	SA-2, reconfiguration undetermined			
25X1A	Aljicani SAM Site [redacted]	20-51-00N 76-30-00W	CU 0545-21	SA-2, configuration undetermined			
25X1A	Santiago de Cuba SAM Assembly Area, [redacted]	20-05-10N 75-55-20W	CU 0545-21	See remarks			
25X1A	Maldonado SAM Site A182, [redacted]	20-12-35N 75-26-45W	CU 0545-22	SA-2, star			
25X1A	Cabanas SAM Site [redacted]	20-06-00N 76-30-10W	CU 0545-22	SA-2, reconfiguration undetermined			

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Table 81. SAM Installations on WAC 688

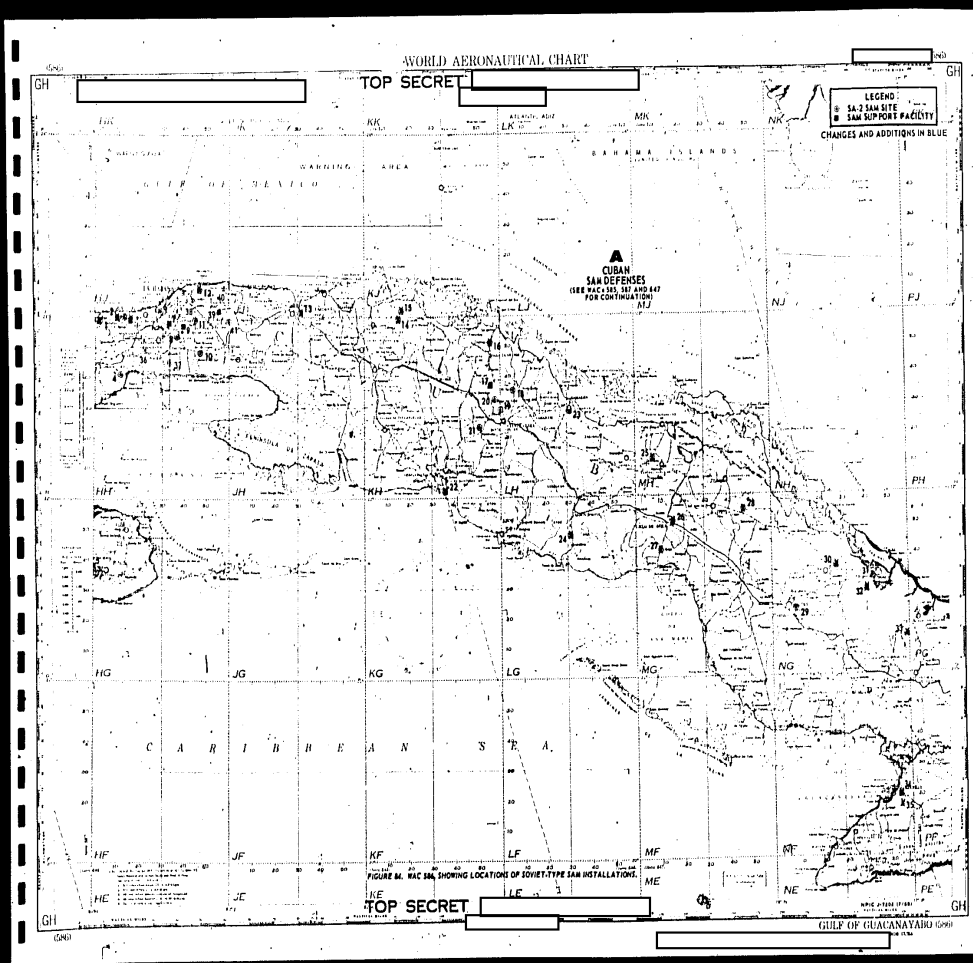
Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Negated	Remarks
1	Cabañas SAM Site, [redacted]	22-26-36N 82-58-48W	CU 0586-4	SA-2, link			This site is in defense of Cabañas Naval Base. This site is no longer considered a SAM target.
2	Mariel SAM Site, [redacted] 25X1A	23-00-55N 82-49-30W	CU 0586-4	SA-2, star			This site is in defense of Mariel Naval Base, airplane station, and Mariel port. The defensive role of this site cannot be determined.
3	Mariel SAM Site 2 A30-2, [redacted] 25X1A	23-00-43N 82-48-50W	CU 0586-4	SA-2, configuration undetermined			
4	Majana SAM Site A27-2, [redacted] 25X1A	23-11-20N 82-40-50W	CU 0586-4	SA-2, configuration undetermined			
5	Siguanea SAM Site A14-2, [redacted] 25X1A	21-37-32N 82-57-53W	CU 0586-11	SA-2, star			This site is in defense of airfield, naval facilities and the transportation site on the Isle of Pines. This site is in defense of Havana.
6	Punta Brava SAM Site A30-2, [redacted] 25X1A	23-01-21N 82-51-53W	CU 0586-4	SA-2, configuration undetermined			
7	Turones SAM Assembly Area, [redacted] 25X1A	22-37-43N 82-37-51W	CU 0586-4	See remarks			This is not a standard SAM support facility.
8	La Sabal SAM Site A04-2, [redacted] 25X1A	22-53-01N 82-34-43W	CU 0586-8	SA-2, star			This site is probably in defense of Havana.
9	Santiago de las Vegas SAM Assembly Area, [redacted] 25X1A	22-37-40N 82-31-30W	CU 0586-4	See remarks			This is not a standard SAM support facility. It consists of several large warehouse-type buildings, and equipment in the open. This site is in defense of Havana.
10	Gara SAM Site A29-2, [redacted] 25X1A	22-48-42N 82-13-43W	CU 0586-4	SA-2, configuration undetermined			This site is probably in defense of Havana.
11	Managua SAM Site A05-2, [redacted] 25X1A	22-30-43N 82-15-55W	CU 0586-4	SA-2, star			
12	Havana SAM Site, [redacted] 25X1A	23-09-58N 82-18-25W	CU 0586-4	SA-2, star			This site is in defense of Havana. This site is no longer considered a SAM target.
13	Matanzas SAM Site, [redacted] 25X1A	23-01-00N 81-59-14W	CU 0586-7	SA-2, link			This site is in defense of Matanzas port and several military installations. This site is no longer considered a SAM target.
14	Delicias SAM Site, [redacted] 25X1A	22-38-41N 80-44-47W	CU 0586-7	SA-2, star			This site has been abandoned. This site is no longer considered a SAM target.
15	Delicias Alternate SAM Site, [redacted] 25X1A	22-01-40N 80-44-40W	CU 0586-7	SA-2, star			This site has been abandoned. This site is no longer considered a SAM target.
16	Mague Infrate SAM Site, [redacted] 25X1A	22-41-10N 80-03-30W	CU 0586-7	SA-2, star			This site has been abandoned. This site is no longer considered a SAM target.
17	Cifuentes SAM Assembly Area, [redacted] 25X1A	22-36-12N 80-03-05W	CU 0586-8	See remarks			This is not a standard SAM support facility.
18	Mata SAM Site A34-2, [redacted] 25X1A	22-35-51N 78-55-42W	CU 0586-8	SA-2, configuration undetermined			This site is in defense of Camillo Cienfuegos Airfield, and several military installations in the area.
19	Santa Clara SAM Site A34-2, [redacted] 25X1A	22-39-00N 80-00-00W	CU 0586-8	SA-2, configuration undetermined			This site is in defense of Camillo Cienfuegos Airfield, and several military installations in the area.
20	San Diego del Valle SAM Site A11-2, [redacted] 25X1A	22-52-12N 80-03-10W	CU 0586-8	SA-2, configuration undetermined			This site is in defense of Camillo Cienfuegos Airfield, and several military installations in the area.
21	Huachulo SAM Site A36-2, [redacted] 25X1A	22-25-45N 80-10-01W	CU 0586-8	SA-2, configuration undetermined			This site has been abandoned. This site is no longer considered a SAM target.
22	Cienfuegos SAM Site, [redacted] 25X1A	22-09-40N 80-04-00W	CU 0586-13	SA-2, link			This site is in defense of the military installation at Remedios. This site has been abandoned. This site is no longer considered a SAM target.
23	Colbarán SAM Site A21-2, [redacted] 25X1A	22-28-15N 79-20-35W	CU 0586-8	SA-2, star			
24	Nacoti Spiritus SAM Site, [redacted] 25X1A	21-47-41N 78-09-00W	CU 0586-13	SA-2, star			This site has been abandoned. This site is no longer considered a SAM target.
25	Chambas SAM Site, [redacted] 25X1A	22-18-20N 78-48-40W	CU 0586-14	SA-2, link			This site has been abandoned. This site is no longer considered a SAM target.

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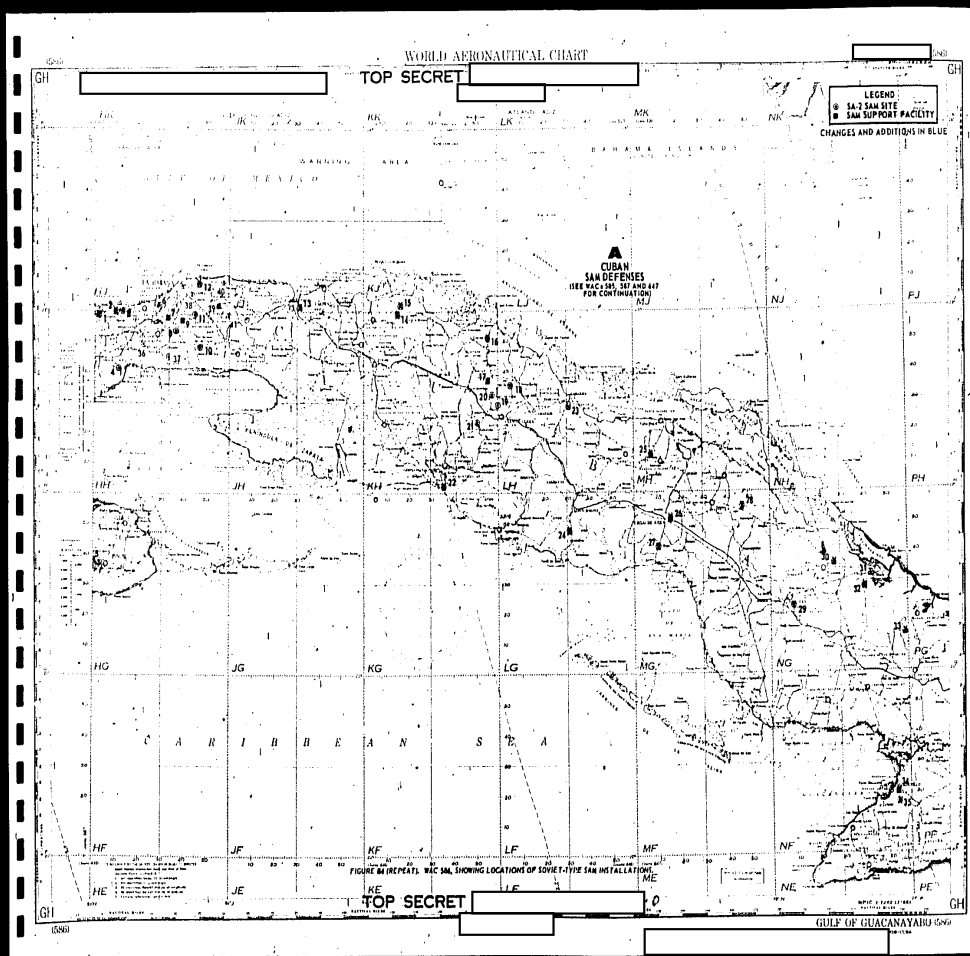
Table B1. SAM Installations on WAC 886 (Continued)

Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears ¹	Mission & Date Installation Negated ¹	Remarks
28	Ciego de Avila SAM Assembly Area, [redacted] 25X1A	21-51-50N 76-44-01W	CU 0586-14	See remarks			This was not a standard SAM support facility. It consisted of equipment stacked in the open. Presently this area is abandoned. This site is no longer considered a SAM target.
29	Ciego de Avila SAM Site, [redacted] 25X1A	21-49-18N 76-50-31W	CU 0586-14	SA-2, star			This site has been abandoned. This site is no longer considered a SAM target.
30	Emeralda SAM Site, [redacted] 25X1A	21-43-48N 76-18-18W	CU 0586-14	SA-2, star			This site has been abandoned. This site is no longer considered a SAM target.
31	Canagary SAM Site A102, [redacted] 25X1A	21-29-55N 77-50-10W	CU 0586-20	SA-2, configuration undetermined			This site is in defense of Canagary Airfield and several military installations in the area. This site has been abandoned. This site is no longer considered a SAM target.
32	Nevalo SAM Site, [redacted] 25X1A	21-36-30N 77-02-11W	CU 0586-19	SA-2, link			This site is in defense of the Navitas port facilities and military installations in the Canagary area. This site has been abandoned. This site is no longer considered a SAM target.
33	Navitas SAM Site 2, [redacted] 25X1A	21-32-50N 77-17-18W	CU 0586-20	SA-2, configuration undetermined			This site has been abandoned. This site is no longer considered a SAM target.
34	Navitas SAM Site, [redacted] 25X1A	21-32-50N 77-17-18W	CU 0586-20	SA-2, configuration undetermined			This site has been abandoned. This site is no longer considered a SAM target.
35	Masanti SAM Site, [redacted] 25X1A	21-18-46N 77-02-13W	CU 0586-20	SA-2, link			This was not a standard SAM support facility. It consisted of equipment parked in the open, immediately adjacent to Masanti SAM Site. This area is now abandoned. The facility is no longer considered a SAM target.
36	Masanti SAM Assembly Area, [redacted] 25X1A	20-18-46N 77-00-05W	CU 0586-25	See remarks			This site has been abandoned. This site is no longer considered a SAM target.
37	Masanti SAM Site, [redacted] 25X1A	20-18-30N 77-00-00W	CU 0586-25	SA-2, star			This site has been abandoned. This site is no longer considered a SAM target.
38	Algarra SAM Site A302, [redacted] 25X1A	22-45-25N 82-58-36W	CU 0586-6	SA-2, possible link			
39	La Cabaña SAM Site A125, [redacted] 25X1A	22-45-00N 82-57-15W	CU 0586-6	SA-2, possible link			
40	Guantanamo SAM Site A102, [redacted] 25X1A	22-40-00N 82-56-00W	CU 0586-6	SA-2, configuration undetermined			
41	Tapasco SAM Site A102, [redacted] 25X1A	22-01-15N 82-01-50W	CU 0586-6	See remarks			This is not a standard SAM support facility. It consisted of several buildings in a SAM target equipment stack is stacked in the open.
42	Carpa Honda SAM Site A072, [redacted] 25X1A	22-00-15N 82-02-10W	CU 0586-6	SA-2, star			
43	La Cabaña SAM Site A102, [redacted] 25X1A	22-45-15N 82-00-00W	CU 0586-6	SA-2, star			

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Table 02. SAM Installations on WAC 587

Item	Name, Site Designation, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Negated	Remarks
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▲ Cuban SAM Debris (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).

25X1A	Miraflores SAM Site	22-41-40N 85-45-40W	CU 0687-10	SA-2, configuration undetermined			This site has been abandoned.
25X1A	Nesta Lerio Alternate SAM Site	22-48-40N 85-49-50W	CU 0687-10	SA-2, star			This site has been abandoned.
25X1A	Bahia Honda SAM Site	22-47-03N 83-17-00W	CU 0687-10	SA-2, Hak			This site has been abandoned.
25X1A	Pinar del Rio SAM Assembly Area	22-01-09N 84-49-18W	CU 0687-15	See remarks			This is not a standard SAM support facility, but consists of several buildings, and equipment stored in the open.
25X1A	La Coloma SAM Site 8	22-19-47N 85-44-40W	CU 0687-15	SA-2, configuration undetermined			This site is possibly in defense of Pinar del Rio military installation.
25X1A	La Coloma SAM Site	22-18-42N 84-52-32W	CU 0687-15	SA-2, star			This site has been abandoned.
25X1A	San Julian Airfield SAM Site	22-04-04N 84-08-45W	CU 0687-15	SA-2, star			This site is deployed in defense of San Julian Airfield. Located approximately 3 km southwest of this site is an unactivated, unimproved site, which first appeared in late 1960s. This site has been abandoned.

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This site has been abandoned.

This site has been abandoned.

This site has been abandoned.

This site is possibly in defense of Pinar del Rio military installation.

This site has been abandoned.

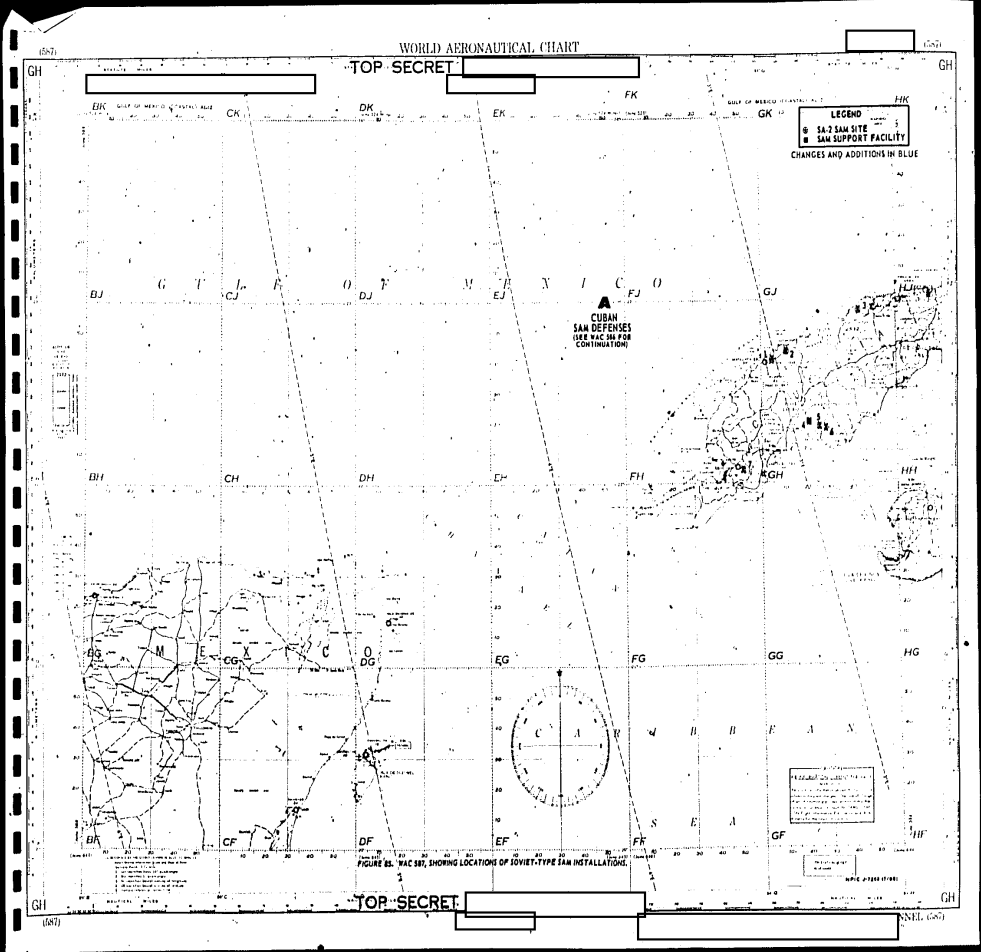
This site is deployed in defense of San Julian Airfield. Located approximately 3 km southwest of this site is an unactivated, unimproved site, which first appeared in late 1960s. This site has been abandoned.

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Table 25. SAM Installations on WAC 047

Item	Name, Site Designator, & HE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appeared	Mission & Date Installation Suggested	Remarks
	Santiago de Cuba SAM Site A25-0	19-59-20N 75-50-56W	CU 0647-3	SA-2, link			This site is in defense of Santiago de Cuba, port facilities, naval base, POL, refinery and storage, and several military installations.

▲ 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.)

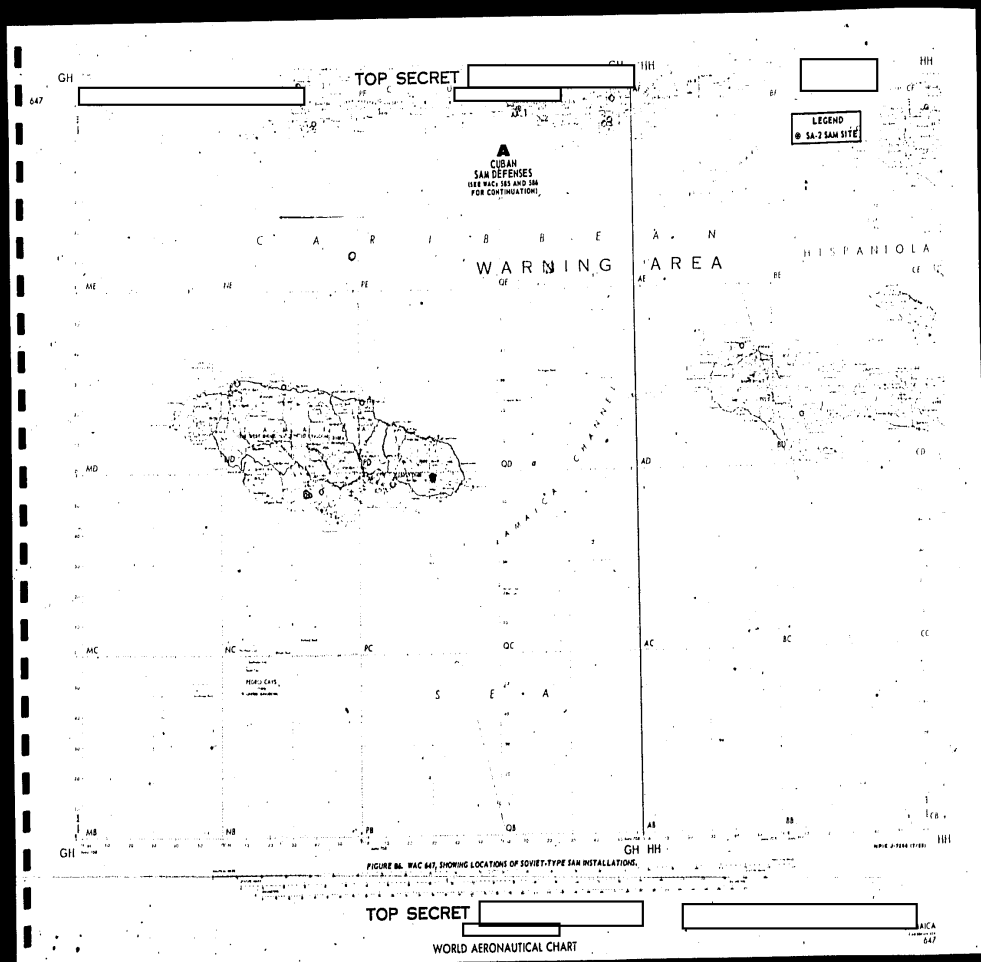
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Table 21. SAM Installations on WAC 251

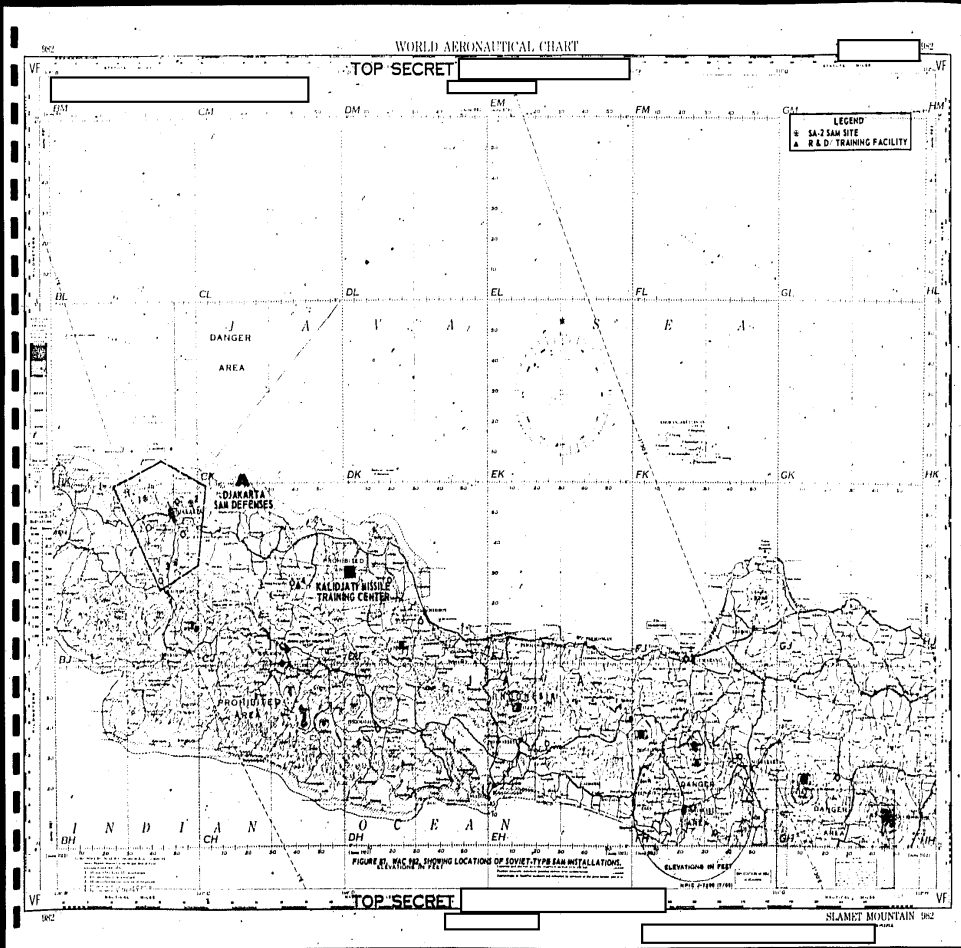
Item	Name, Site Designator, & BE No	Coordinates	Country & Map Ref	Type & Configuration	Mission & Date First Appears	Mission & Date Installation Negated	Remarks
A Djakarta (Indonesia) SAM Defenses (in defense of Djakarta, capital and largest city of Indonesia, and of the port city of Tanjungpriok)							
1	Djakarta SAM Site Kampung Melayu B29-2, [redacted] 25X1A	06-03-208 106-39-10E	ID ANS-T503 Sheet SB 48-12	ID SA-2, link			25X1D
2	Djakarta SAM Site Tjilening A08-2, [redacted] 25X1A	06-03-458 106-36-40E	ID ANS-T503 Sheet SB 48-12	SA-2, configuration undetermined			
3	Djakarta SAM Site Tjilening B17-2, [redacted] 25X1A	06-03-558 106-30-10E	ID ANS-T503 Sheet SB 48-12	ID 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] 25X1A	06-32-528 107-39-35E	ID ANS-T503 Sheet SB 48-12	ID SA-2, undetermined			

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ADDENDUM

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

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WAC	Country	Installation Name and Designator	BE Number	Coordinates	Remarks
48	USSR	Norfolk SAM Support Facility	25X1A	09-21-50N 86-11-00E	
48	USSR	Norfolk SAM Site B10-2		09-19-50N 86-12-31E	
48	USSR	Norfolk SAM Site B35-2		09-22-51N 86-01-01E	
50	USSR	Belarha Guba SAM Site A32-2		71-37-45N 32-00-00E	
50	USSR	Belarha Guba SA-2 SAM Site		71-38-00N 32-28-40E	
51	USSR	Mutaansk Possible SAM Site B11-3		66-15-00N 35-41-03E	
51	USSR	Olesgnok SAM Site C11-3		66-03-20N 34-18-30E	
51	USSR	Pechonga SAM Support Facility 3, Type IA		66-42-30N 33-02-30E	See page 6, item 22. This support facility has been reclassified from Type I to Type IA. It is collocated with Pechonga SAM Site D03-2.
91	USSR	Kandalaksha SAM Site B28-2		67-07-30N 31-49-40E	
91	USSR	Belomorsk SAM Site B25-2		64-26-00N 34-24-23E	See page 12, item 1. This site was deleted on the basis of photography of [redacted]
92	USSR	Iokanga SAM Site A28-2		67-39-30N 39-22-40E	25X1D
102	USSR	Plevetsk RBM Complex SAM Site A08-3		62-37-50N 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	Portavala Possible SA-2 SAM Site		61-49-10N 30-59-30E	
108	USSR	Leisingrad SAM Site C02A-2		60-51-31N 30-43-00E	
127	USSR	Bratsk SAM Site C03A-2		56-24-40N 102-08-40E	See page 20, item 7. This site was deleted as an SA-2 site on the basis of photography [redacted]
133	USSR	Kuznessovo SAM Site B02-2		58-33-23N 32-35-30E	
133	USSR	Leisingrad SAM Site C27A-2		59-32-45N 30-31-13E	
133	USSR	Leisingrad SAM Site D24-2		59-37-40N 30-30-30E	
133	USSR	Leisingrad SA-2 SAM Site		59-32-15N 30-34-00E	
133	USSR	Molokovskiy MRBM Complex SAM Support Facility, Type IA		59-39-10N 38-47-33E	This is a probable training facility. See page 24, item 14. This support facility has been reclassified from Type II to Type IA. It is collocated with Molokovskiy MRBM Complex SAM Site B29-2.
133	USSR	Molokovskiy MRBM Complex SAM Support Facility, Type IA		59-39-10N 38-59-30E	This Type IA SAM support facility is collocated with Molokovskiy SAM Site A22-2 (page 24, item 17).
134	USSR	Kalinin SAM Site B25-3		56-45-18N 35-34-07E	
136	USSR	Kash SAM Site B04-2		56-06-30N 60-39-10E	
161	USSR	Lesinsk-Konstantin SAM Site A10-2		54-38-25N 36-19-00E	
161	USSR	Biysk SA-2 SAM Site		52-27-50N 84-43-00E	
162	USSR	Barsel SAM Site B20A-2		53-10-50N 33-41-08E	See page 22, item 9. This site was deleted as an SA-2 site on the basis of photography [redacted]
163	USSR	Bozhianak SAM Site E17-2		32-56-20N 36-18-00E	
168	USSR	Nisafal SAM Site A27-2		55-43-28N 32-06-00E	25X1D

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WAC	Country	Installation Name and Designator	BE Number	Coordinates	Remarks
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200	UNSR	Ulan-Ude SAM Site C01-2		52-09-52N 107-59-00E	
201	UNSR	Khabarovsk SAM Site B18-2		49-10-10N 135-11-10E	
204	UNSR	Khabarovsk SAM Site A01-2		46-53-50N 135-09-25E	
204	UNSR	Komondok SAM Site B13A-2	25X1A	50-54-00N 137-28-30E	See page 105, item 17. This site was deleted as an SA-2 site on the basis of photography
205	UNSR	Smirnykh SAM Site A31-2		49-44-50N 142-49-10E	25X1D
201	Czechoslovakia	Chomutov SAM Site A31-2		50-51-00N 13-14-20E	

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231	Czechoslovakia	Pleiss SAM Site B30-2		49-31-10N 13-05-10E	25X1D
231	Czechoslovakia	Pleiss SAM Support Facility, Type 1		49-31-30N 13-28-55E	
233	UNSR	Ussvo MRBM Complex SAM Site B30-2		51-21-00N 27-51-50E	
234	UNSR	Murosovsk SAM Site C23-2		46-06-50N 41-19-00E	
234	UNSR	Zaporozhye SAM Site B34-2		46-09-03N 34-46-29E	
236	UNSR	Oreshburg Possible SAM Support Facility		51-38-20N 35-19-40E	
248	UNSR	Astrakhan SAM Site B23-2		46-11-10N 47-47-47E	
248	UNSR	Sayfina Missile-Launch Facility		47-32-00N 49-24-00E	This is an unclassified-type, remote missile-launch facility. Its configuration resembles a portion of an SA-1 launch site. See NPIC [redacted] Sarytsov Missile-Launch Facility, USSR, Jan 65 (TOP SECRET [redacted])
249	UNSR	Korenovsk SAM Site B36-2		45-10-00N 39-28-00E	
249	UNSR	Kropotkin SAM Site B32-2		45-36-11N 40-14-22E	
249	UNSR	Armasir SAM Site C18-2		44-32-30N 41-19-25E	
249	UNSR	Armasir SAM Site D25-2		44-36-10N 40-49-21E	
249	UNSR	Krasnok-Chalkitinsky SAM Site D14-2		47-49-10N 40-41-02E	
250	UNSR	Balia MRBM Complex SAM Site A17-2		47-06-50N 39-56-20E	See page 107, item 3. This site was deleted on the basis of photography of [redacted]
250	UNSR	Odesa SAM Site D06-2		46-28-20N 31-34-10E	25X1D
250	UNSR	Odesa SAM Site D06-2		46-48-00N 31-32-10E	
260	UNSR	Burevestnik SAM Site A27-2		44-35-20N 147-44-40E	
281	UNSR	Yusho-Sakhalinsk SAM Site B01-2		47-03-20N 142-44-40E	
281	UNSR	Yusho-Sakhalinsk Probable SA-2 SAM Site		47-14-55N 142-41-05E	
282	UNSR	Bairao-Oreshburgskoye MRBM Complex SA-2 SAM Site		44-15-30N 131-43-15E	
287	China	Shuang-chang-tzu Missile Test Center Possible SA-2 SAM Site		09-44-30N 100-03-00E	

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ADDENDUM

A listing by WACs of additions and changes to the installations above 1 January through 30 June 1965.

WAC	Country	Installation Name and Designator	BE Number	Coordinates	Remarks
48	USNR	Norlik SAM Support Facility	09-01-50N	89-11-00E	
48	USNR	Norlik SAM Site B10-2	09-18-50N	88-42-35E	
48	USNR	Norlik SAM Site B35-2	09-22-51N	88-01-01E	
50	USNR	Belushya Guba SAM Site A32-2	71-37-45N	92-00-00E	
51	USNR	Belushya Guba SA-2 SAM Site	71-29-00N	92-28-40E	
51	USNR	Murmansk Possible SAM Site B11-3	68-55-50N	38-41-03E	
51	USNR	Olegorsk SAM Site C11-3	68-02-50N	34-18-30E	
51	USNR	Pechenga SAM Support Facility 2, Type 1A	68-42-30N	33-02-30E	See page 6, item 82. This support facility has been reclassified from Type I to Type 1A. It is collocated with Pechenga SAM Site B05-2.
91	USNR	Kandalaksha SAM Site B24-2	67-07-30N	31-49-40E	
91	USNR	Belomorsk SAM Site B12-2	64-28-20N	34-24-25E	See page 12, item 1. This site was deleted on the basis of photography of [redacted]
92	USNR	Iokanga SAM Site A25-2	47-39-30N	38-33-30E	
102	USNR	Plesetsk ICBM Complex SAM Site A06-2	62-37-40N	40-51-30E	See page 14, item 23. The name of this site is changed, and the designator and BE number are added.
103	USNR	Svetlana Possible SA-2 SAM Site	61-42-10N	40-38-30E	
103	USNR	Leningrad SAM Site C02A-2	60-51-45N	30-23-00E	
127	USNR	Bratsk SAM Site C02A-2	56-31-40N	102-05-30E	See page 20, item 7. This site was deleted as an SA-2 site on the basis of photography [redacted]
133	USNR	Kurovskoye SAM Site B02-2	56-32-30N	92-35-30E	
133	USNR	Leningrad SAM Site C12A-2	59-52-45N	30-31-15E	
133	USNR	Leningrad SAM Site D24-2	59-37-40N	39-30-30E	
133	USNR	Leningrad SA-2 SAM Site	59-32-10N	39-24-40E	This is a probable training facility.
133	USNR	Molokovskiy MRBM Complex SAM Support Facility, Type 1A	59-32-10N	39-27-35E	See page 28, item 18. This support facility has been reclassified from Type II to Type 1A. It is collocated with Molokovskiy MRBM Complex SAM Site B29-2.
133	USNR	Molokovskiy MRBM Complex SAM Support Facility, Type 1A	59-29-10N	39-39-30E	This Type 1A SAM support facility is collocated with Molokovskiy SAM Site A22-2 (page 28, item 17).
134	USNR	Kalinin SAM Site B21-2	56-45-10N	33-34-07E	
134	USNR	Kash SAM Site B04-2	56-06-20N	40-59-10E	
141	USNR	Leningrad-Kurovskiy SAM Site A10-2	54-38-45N	36-19-00E	
141	USNR	Byak SA-2 SAM Site	52-37-50N	34-53-00E	
152	USNR	Krasnod SAM Site B04A-2	53-10-30N	32-41-08E	See page 22, item 9. This site was deleted as an SA-2 site on the basis of photography [redacted]
155	USNR	Svetlansk SAM Site X17-2	52-48-20N	36-18-00E	
168	USNR	Sivulal SAM Site A37-2	53-53-25N	33-08-30E	

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WAC	Country	Installation Name and Designator	BE Number	Coordinates	Remarks
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200	USSR	Ulan-Ude SAM Site C01-2		52-09-55N 107-59-00E	
204	USSR	Khabarovsk SAM Site B18-2		48-10-10N 135-11-10E	
204	USSR	Khabarovsk SAM Site A01-2		48-25-00N 135-09-25E	
204	USSR	Komomolsk SAM Site B18A-2		50-24-00N 137-26-30E	See page 100, item 17. This site was deleted as an SA-2 site on the basis of photography
205	USSR	Sevnyak SAM Site A31-2		48-44-40N 142-49-10E	
221	Czechoslovakia	Chomutov SAM Site A81-2		50-51-00N 15-18-20E	

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231	Czechoslovakia	Pizeo SAM Site B30-2		48-51-10N 18-05-10E	
231	Czechoslovakia	Pizeo SAM Support Facility, Type 1		48-51-50N 18-29-50E	
233	USSR	Uvero MRBM Complex SAM Site B30-2		51-24-00N 27-51-50E	
234	USSR	Mosnovsk SAM Site C35-2		48-08-30N 41-15-00E	
234	USSR	Zaporozhye SAM Site B31-2		48-08-02N 34-28-29E	
236	USSR	Orenburg Possible SAM Support Facility		51-59-20N 55-19-40E	
246	USSR	Astakhan SAM Site B23-2		46-11-10N 47-47-47E	
248	USSR	Saykhan Missile-Launch Facility		47-33-00N 49-26-00E	This is an unidentified-type, remote missile-launch facility. Its configuration resembles a portion of an SA-3 launch site. See NFKC [redacted] Saykhan Missile-Launch Facility, USSR, Jan 85 (TOP SECRET [redacted])

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249	USSR	Korenovsk SAM Site B38-2		53-40-00N 38-26-00E	
249	USSR	Kropotkin SAM Site B32-2		45-38-11N 60-14-25E	
249	USSR	Amavir SAM Site C18-2		44-42-50N 41-12-25E	
249	USSR	Amavir SAM Site D13-2		44-28-18N 40-38-21E	
249	USSR	Kanevsk-Sukhobitskiy SAM Site D14-2		47-48-10N 40-41-02E	
250	USSR	Balta MRBM Complex SAM Site A17-2		47-36-50N 28-38-20E	See page 112, item 5. This site was deleted on the basis of photography of [redacted]
250	USSR	Odesa SAM Site D06-2		46-48-00N 31-34-10E	
250	USSR	Odesa SAM Site D06-2		46-48-40N 31-23-10E	
250	USSR	Burevestnik SAM Site A27-2		44-33-20N 147-34-40E	
281	USSR	Yushko-Sakhalinsk SAM Site D01-2		47-05-00N 149-44-40E	
281	USSR	Yushko-Sakhalinsk Probable SA-2 SAM Site		47-14-58N 149-41-00E	
282	USSR	Berazno-Orenburgskoye MRBM Complex RA-2 SAM Site		44-18-33N 181-49-10E	
287	China	Shuang-chong-tze Missile Test Center Possible SA-2 SAM Site		05-44-30N 100-08-00E	

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WAC	Country	Installation Name and Designator	BE Number	Coordinates	Remarks
284	China	Pan-tou SAM Site C12-2	25X1A	40-25-10N 110-30-00E	
285	China	Pan-tou SAM Site E10-2		40-35-30N 110-38-00E	
286	China	Pan-tou SAM Site A02-2		40-45-20N 110-01-30E	
323	Albania	Tirane SA-2 SAM Site		41-12-30N 19-45-30E	
323	USNR	Baku SAM Site A15-2		40-10-30N 48-28-33E	
323	USNR	Baku SAM Site A15-2		40-17-50N 48-36-10E	
323	USNR	Tatoli, Takaro SAM Support Facility, Type IA		41-56-55N 46-02-45E	This type IA support facility is collocated with Tatoli Takaro SAM Site A25-2 (page 170, item 22).
325	USNR	Baku SA-3 SAM Site		40-17-30N 48-31-01E	
325	USNR	Baku SA-2 SAM Site		40-20-00N 48-25-30E	
336	USNR	Kuljab SAM Site A06-2		37-55-20N 69-47-45E	Site is adjacent to a barracks area and is a probable training facility.
338	USNR	Nebit Dag SAM Site D12-2		39-57-00N 53-50-41E	
353	China	Lan-chou SAM Site B29-2		36-08-32N 105-23-30E	
410	India	Chandigarh SA-3 SAM Site		30-31-40N 76-36-00E	
410	India	Chandigarh SAM Site A01-2		30-46-15N 76-41-00E	
410	India	Chandigarh SAM Site A11-2		30-31-15N 76-41-00E	
410	India	Chandigarh SAM Site C16-2		30-18-45N 77-05-45E	
410	India	Chandigarh SAM Support Facility		30-40-00N 76-48-30E	
417	Egypt	Bur Said SAM Site A18-2		31-14-00N 32-19-00E	
417	Egypt	Bur Said SAM Site A30-2		31-18-35N 32-14-00E	
417	Egypt	Al Ismailiyah SAM Site B09-2		30-36-00N 32-00-00E	
417	Egypt	Al Ismailiyah SAM Site B01-2		30-25-20N 32-15-00E	
417	Egypt	Al Ismailiyah SAM Site B01-2		30-46-20N 32-16-00E	
417	Egypt	As Sawayh SAM Site C01-2		30-18-40N 32-25-00E	
417	Egypt	As Sawayh SAM Site A34-2		30-00-00N 32-31-00E	
417	Egypt	As Sawayh SAM Site B06-2		30-04-10N 32-44-00E	
417	Egypt	As Sawayh SAM Site B31-2		30-11-10N 32-28-10E	
514	Egypt	Aswan SAM Site B07-2		24-10-45N 32-05-15E	
514	Egypt	Aswan SAM Site B33-2		24-15-00N 32-46-30E	
514	Egypt	Aswan SAM Support Facility		24-03-35N 32-53-10E	
586	Cuba	El Cano Probable SAM Training Area		23-03-27N 82-29-00W	
615	China	Chao-chiang Possible SA-2 SAM Site		21-28-50N 110-11-30E	
616	Viet Nam	Hanoi SAM Site A29-2		21-01-20N 105-41-00E	
616	Viet Nam	Hanoi SAM Site B12-2		20-26-45N 106-04-00E	
616	Viet Nam	Hanoi SAM Site B17-2		20-17-00N 105-36-15E	
616	Viet Nam	Hanoi SAM Site B21-2		20-31-54N 105-45-18E	
692	Indonesia	Djakarta SAM Site B11-2		06-16-30S 107-01-40E	
692	Indonesia	Djakarta SAM Site, Pakubonan, B29-2		06-14-00S 106-39-00E	
692	Indonesia	Djakarta SAM Support Facility		06-17-45S 106-34-21E	

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SUMMARIES

The information in the following summaries combines the totals from the body of this report and from the addendum immediately above. In assessing these statistics, the following comments may be helpful:

1. The total shown for the SA-2 sites includes the 14 SA-0 sites. Currently it is believed that these SA-0 sites are, in fact, simply enlarged SA-2 sites and should no longer be treated separately.

2. Included within the SAM support facility figures are Type I, Type IA, and Type II facilities; the large missile assembly and storage facilities such as those at Moscow; and the newer missile support facilities such as the one at [redacted].

3. Each installation to which a training role has been assigned is listed under its appropriate heading. These training installations range in size from a

simple, single launch site to the more elaborate, multiple launch sites such as the installation near Kordon, USSR. These single launch sites are only listed with the training areas and are not listed again with the operational sites.

4. The totals shown include all suspect, probable, and confirmed installations of each type.

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Soviet-Type SAM Installations of the World, Totals by Country as of [redacted]

Table with columns: Country, SA-1, SA-2, SA-3, Support Facility, Training Areas, Other. Includes data for Albania, Bulgaria, China, Cuba, Czechoslovakia, Egypt, Hungary, India, Indonesia, Iraq, North Korea, North Vietnam, Poland, Romania, USSR, Yugoslavia, and TOTALS.

Soviet-Type SAM Installations of the World, Totals by WAC as of [redacted]

Table with columns: WAC, SA-1, SA-2, SA-3, Support Facility, Training Areas, Other. Includes data for various WACs (48-199) and specific sites (900-957) with their respective SAM types and facilities.

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REFERENCES

DOCUMENTS

1. CIA. PIR-1/64, Soviet-Type SAM Installations, WACs 89, 91, 93, 95, and 97, Jan 64 (TOP SECRET [redacted])
2. CIA. PIR-2/64, Soviet-Type SAM Installations, WACs 100, 102, 104, 106, and 108, Jan 64 (TOP SECRET [redacted])
3. CIA. PIR-3/64, Soviet-Type SAM Installations, WACs 114, 116, 118, and 120, Mar 64 (TOP SECRET [redacted])
4. CIA. PIR-4/64, Soviet-Type SAM Installations, WACs 126, 128, 130, 132, and 134, Mar 64 (TOP SECRET [redacted])
5. CIA. PIR-11/64, Soviet-Type SAM Installations, WACs 167, 169, and 170, Apr 64 (TOP SECRET [redacted])
6. CIA. PIR-14/64, Soviet-Type SAM Installations, WACs 181, 183, 185 Through 195, and 201 Through 211, May 64 (TOP SECRET [redacted])
7. CIA. PIR-15/64, Soviet-Type SAM Installations, WACs 225, 227, 229, 231, 233, and 235 Through 257, Jun 64 (TOP SECRET [redacted])
8. CIA. PIR-17/64, Soviet-Type SAM Installations, WACs 261, 263, 265, 267, 269, 271, 273 Through 295, and 301, Jul 64 (TOP SECRET [redacted])

REQUIREMENT

CIA. C-RR-482,058-64

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