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PHOTOGRAPHIC INTERPRETATION REPORT

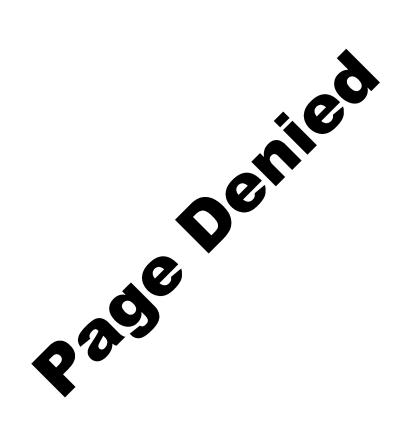
NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

STATUS OF CSA-1 (SAM) SITES CHINA

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JULY 1974 COPY NO 122 8 PAGES PIR-044/74



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	ST	ATUS OF CSA-l	(SAM) SITE	S, CHINA		
		ABS	STRACT			
systems. This construction	report discusses		status, as we	ll as trainin	ployment of CSA-1 (SAg activity and some of Of August 1973	the
	luded are five ph table showing sit		s concepts of	launcher co	vers, or cocoons; a locat	cion
		BASIC D	ESCRIPTION			
Deployment	Status					
areas (Figure type shows 2	 This represent hardened permone of the field 	its a decrease of anent sites, 31 n	eight CSA-1 s onhardened pe	ites since Ju rmanent site	three known SAM trainine 1973. A breakdown es, and six field sites (Taurs, and therefore these	by able
remained fairl of CSA-1 equ	ly constant, althouipment is only	ough the number	of occupied S n, since all C	SAM sites ha	ver the past two years is decreased. This invent training areas, and supp	ory
CSA-1 sites ar		served in training			on the number of occup to March 1974. (The figu	
Battalions at	1972		1973	1974	(Jan-Mar)	
Occupied sites Fraining areas	56 7		56 9		54 11	
Total battalion	s <u>63</u>		65		65	
In addition to Areas A and 1974.		verage of two ba	attalions were		ang-cheng-tzu SAM Laun m January 1972 to Ma	0 = 1 /
		t as yet shown ar has been the pra			ng antiaircraft artillery w he world.	rith
Construction	Activity					
emphasis on l		proving existing			period has been continu improvement has genera	
a.		_			acluding permanent on- isting site (Figure 2).	site
b.	guidance and m support area. Th	issile-hold areas,	improving the kept operatio	revetments,	consists of hardening and improving the on- his renovation by relocat	site
					and improvement of SA clearly defined purpo	

(Continued p. 5)

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FIGURE 1. LOCATION OF DEPLOYED CSA-1 SITES AND TRAINING AREAS

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-						Site Type									Site Type						_			Site Type		4
_	Site Designator & BE No	Geographic Coordinates	Occu- pled	Unoc- cupled	Hard- ened	Perma- nent	Field	Remarks	Item	Site Designator & BE No	Geographic Coordinates	Occu- pied	Unoc- cupied	Hard- ened	Perma- nent	Field	Remarks	Item	Site Designator & BE No	Geographic Coordinates	Occu- pled	Unoc- cupied	Hard- ened	Perma- nent	Field	Remarks
ı	Shen-yang C04-1	42-06-11N 123-41-01E	×		×	×	PROG		23	Pei-ching E-23-1	39-21-58N 115-32-57E	×	_	×	×		Elevator guidance radar; coccons	45	San-yuan E28-1	34-44-36N 108-03-19E	х				×	Occupied for over 4 years; prob associated with San-yuan SAM
	Fu-shun D08-1	42-00-50N 124-36-30E	×		×	×		ļ	24	Pei-ching D20-1	39-22-40N 116-07-49E	×			х		ļ	46	Nan-ching CO1-1	32-27-16N 118-49-30E	×		×	×		Training Area Launcher-hold bunkers
3	Pen-chi B10-1	41-15-39N 124-10-23E	×		×	×		1	25	Tang-ku A36-1	39-07-49N 117-37-26E		x		×		Unoccupied for 2 years	47	Nan-tung C31-1	32-15-17N 120-31-15E	×			×		Collocated with airfield
	An-shan B23-1	41-00-11N 122-48-25E	×			×		I	26	Tang-ku 823-1	38-51-29N 117-26-00E	x			×		1	48	Shang-hai B36-1	31-27-04N 121-28-05E	×			x		
	Lu-ta C04-1	39-19-07N 121-58-01E	×			×		1	27	Chang-chia-kou A15-1	40-41-17N 114-58-48E		×		×		Unoccupied for over 2 years	49	Shang-hai	31-14-50N	×			×		
5	Lu-ta B08-1	38-57-42N 121-53-15E		×			×	Unoccupied for over 2 years	28	Chang-chia-kou 813-1	40-43-05N 115-06-22E	×		×	×		Elevator guidance radar; bunkered missile-hold	50	B09-1 Wu-han	121-44-30E 31-07-08N	×			×		
	Lu-ta C26-1	38-46-55N 121-09-50E	x		×	×		1	29	Hsi-ho-ying A19-1	39-53-46N 114-44-58E	x		×	×		New hardened site ucon (coordinates are for old	51	E32-1 Wu-han	113-36-19E 30-52-09N	×		×	×		
	Ta-chin SAM Site	38-18-38N 120-49-18E	x		x	×		Rail-served launchers; elevator guidance radars; bunkered acquisition	30	Shih-chia-chuang		×		×	×		field deployed site); elevator guidance radar Elevator guidance	52	B03-1 Huang-shih	114-26-21E 30-17-06N	×		×	×		
,	Yen-tai	37-45-51N 120-43-06E	×		×	×		reder	31	C32-1 Shih-chia-chuang		x			×		radar; cocoons Ucon	53	A02A-1 Wu-han	115-08-57E 30-19-22N	×		×	×		
0	D30-1 Lai-yang	37-01-14N	×			×		Occupied for over 4	32	C10-1 Chi-ning	114-55-17E 41-04-30N	×		×	×			54	B20-1 Cheng-tu	114-12-52E 30-59-50N	×			×		
11	A36-1 Chih-cheng	120-41-47E 41-07-28N	×		×	×		years	33	A30-1 Hu-ho-heo-te	112-58-41E 40-41-44N	×		×	×			55	C33-1 Cheng-tu	103-45-32E 30-36-45N		×			×	Unoccupied for over 2
12	B06-1 Cheng-te	116-05-15E 40-53-50N	×		×	×		Elevator guidance radar;	34	C12-1 Pao-tou	112-04-21E 40-31-37N	×			×			56	B26-1 Cheng-tu	103-52-40E 30-13-20N		×	×	×		years Ucon; bunkered bldgs
3	C27A-1 Tang-shan	117-19-15E 40-12-30N	×		×	×		bunkered missile-hold bidgs; cocoon Elevator guidance radar;	35	A11-1 Yu-men	110-07-47E 40-13-08N	×			×			57	D23-1	103-30-30E						in guidance area
4	D36-1 Chang-chia-kou	118-06-54E 40-47-35N	 X		 x	×		ucon	36	A12A Shan-tan	097-11-59E 38-26-36N	×					Poss associated with		Cheng-tu B13-1	30-30-05N 104-18-17E				×		
	D10-1 Pel-ching	115-35-43E 40-27-23N	×		×	•		-	37	C19-1 Kang-cha	101-03-20E 37-17-30N	×					Shan-tan SAM Training Areas A & B Occupied for over 2	58	An-shun B12-1	26-09-15N 106-07-08E		×		×		Ucon
15	D33-1	116-01-10E						Elevator guidance radar; bunkered missile-hold bldgs	38	A22-1 Hai-van	100-06-29E 36-49-10N	 x			×		years	59	Kun-ming C27-1	25-00-47N 102-17-41E					х	
16	Pei-ching C03-1	40-21-10N 116-41-02E	х		×	×		Elevator guidance radar; bunkered missile-hold bldgs; cocoons	39	B25A-1	100-45-44E	×			· ·		Ucon	60	Kun-ming 817-1	24-44-05N 102-47-10E	×			×		Ucon
	Pei-ching E30A-1	40-13-10N 115-25-00E	x		×	×		Elevator guidance radar; bunkered missile-hold bidgs; cocoons	40	F35-1	103-20-21E	×			Ŷ			61	Kuang-chou B28-1	23-08-32N 113-03-16E	×		×	×		
	Pei-ching D28-1	39-58-42N 115-42-40E		×		×		Unoccupied for over 2 years		E04-1	104-13-14E				×		Occupied for over 4 years	62	Kuang-chou B34-1	23-25-22N 113-09-25E	×			×		Collocated with army barracks
19	Pei-ching D08-1	39-59-45N 117-03-38E		×		×		Unoccupied for over 3 years	41	C29-1	36-13-02N 103-12-32E	х		×	×		Bunkered bldgs in guidance area	63	Kusng-chou A08-1	23-09-02N 113-23-57E	×			×		
20	Pei-ching D11-1	39-48-18N 117-02-29E	×			×		I	42	Lan-chou C25A-1	35-54-05N 103-16-21E	×		×	×		Bunkered bldgs in guidance area	64	Lien-chang A21-1	25-38-47N 116-43-10E	×		×	×		
21	Pel-ching C14-1	39-34-24N 116-45-38E		×		x		Unoccupied for over 3 years	43	Lan-chou B12A-1	35-57-21N 104-01-41E		×		×		Unoccupied for over 4 years	65	Nan-chang C14-1	28-20-35N 116-14-40E	×		×	×		
22	Pei-ching C18-1	39-33-39N 116-24-50E		×		×		Unoccupied for over 3	44	Pao-chi B07-1	34-27-15N 107-21-43E	x			×		Occupied for 2 years; support bldgs ucon			Totals	64	11	2R	59	6	65 sites

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- 9. An example of such construction has been the building of launcher covers, or cocoons. These cocoons are generally constructed on site and consist of two elongated halves that are mounted on rails at the launch position and can be moved along the rails toward the launcher until they cover it (Figure 4).
- 10. The construction begins with a framework the same size and shape as the finished cocoon (Figure 5). The type of material used in the finished product is not known, but it is believed to be relatively lightweight; the purpose of the cocoon is probably to protect the CSA-1 launcher from the elements rather than from an enemy attack. There are several reasons that suggest the cocoon is of lightweight construction rather than of the heavy construction that would be expected for a passive defensive measure:
 - a. The Chinese usually park the CSA-1 transporter with the missile (under canvas) at the launch position rather than placing the missile on the launcher. Therefore, covering the launcher with the cocoon would leave the missile unprotected in the event of enemy attack. If the missile were placed on the launcher, the cocoon would not be large enough to cover both the missile and the launcher.
 - b. Based on the dimensions of the cocoon, if concrete blocks and poured concrete were the construction materials, each half of the cocoon would weigh approximately 8 tons. The truck-mounted cranes associated with CSA-1 sites have a lifting capacity of only 5.5 tons and therefore could not be used to position the cocoon at the launch area.
 - c. There is photographic evidence that the cocoons are handled several times before being placed in their final position on the rails. This would suggest relatively light weight and easy handling.

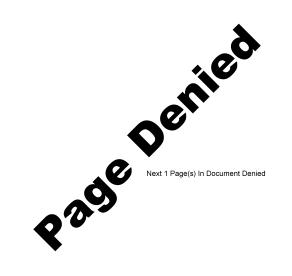
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raining Activity			
11. The three known ince June 1973.	SAM training areas in China (Figure 1) have	shown an increase in activity	
entered around the guida	AM Training Area continue and possibly ten battalions of CSA-1 equipmence radars, indicating two possibilities – a continue modification of the guidance radars or other modification.	oncentrated training program	
13. At Shan-tan SAM he amount of support equ	sipment had increased to the level of early 19	72, which was approximately	•
	occurred after a steady decrease in support equi then the equipment count reached a low of 24		4
14. Shan-tan SAM T	Fraining Area B a live-fire	training area, was occupied	
y three launchers and or which was the first time	ther support equipment (no missiles) that missile equipment had been observed becoment was no longer present		
The equip	pinent was no longer present		
AADS OD CHADTS			25X1
IAPS OR CHARTS US Air Target Chart, Series 2	200, scale 1:200,000		
ELATED DOCUMENTS			
	M Training Areas in China, Mar 68 (TOP SECRET RUF 52/73, CSA-1 SAM Site Displaying New Hardening Cor	·	25X1 25X1
(TOP SECRET RUFF)	26/73, Status of CSA-1 Sites, China, Aug 73 (TOP SEC		25X1 25X1
REQUIREMENT			
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