

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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basic imagery interpretation report

Terekty ASM Impact Area (S)

MISSILE RANGES: AIR LAUNCHED FACILITIES

USSR

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RCA-125X13/83

MAY 1983

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INSTALLATION OR ACTIVITY NAME					COUNTRY
Terekty ASM Impact Area					UR
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NO.	COMIREX NO.	NIETB NO.
39 UUP31885351	48-17-30N 048-33-30E				NA
MAP REFERENCE					
DMAAC, USATC, Series 200, Sheet FPO235-24R, scale 1:200,000					
LATEST IMAGERY USED			NEGATION DATE (If required)		
[Redacted]			NA		

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ABSTRACT

1. (TSR) This is the initial NPIC basic report on Terekty Air-to-Surface Missile (ASM) Impact Area (BE [Redacted]), USSR, and satisfies the basic reporting requirement. It summarizes ASM test activity (based on impact craters) and describes ASM activity at the test facilities and targets in the area from [Redacted] the information cutoff date.

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2. (S/WN) A location map, six annotated photographs, and five tables are included. (Photographs in this report should not be used to derive measurements or azimuths. Locations of the target radars have been changed periodically within each site, as ASM testing occurred and as damaged equipment was replaced.)

INTRODUCTION

3. (S/WN) Terekty ASM Impact Area (Figure 1) is approximately 165 kilometers (km) east of Akhtubinsk/Vladimirovka Airfield [Redacted], USSR, and approximately 400 km west of Makat, USSR. The area (Figure 2) contains six major missile impact areas: Terekty ASM Radar Area A [Redacted] Terekty ASM Radar Area D [Redacted] and four corner reflector target sites (A through D). Terekty ASM Radar Area C [Redacted] a central tracking facility, is also within the impact area.

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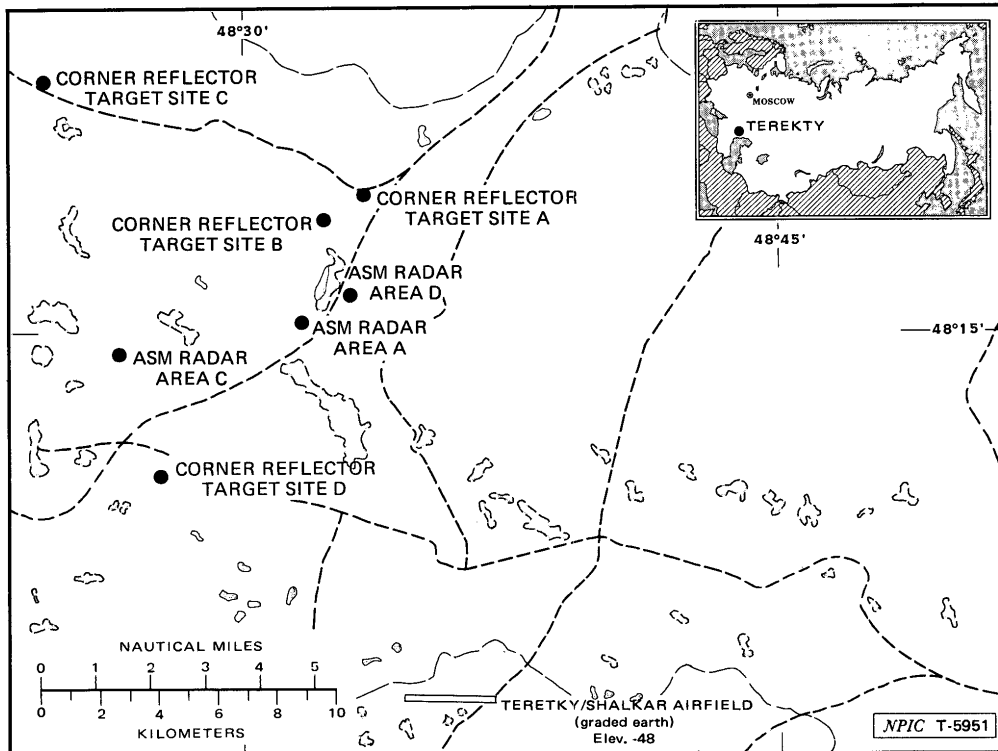


FIGURE 1. TEREKTY ASM IMPACT AREA, USSR

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Table 1.
Terekty ASM Radar Area A

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Crater	Date of Imagery	Target	Crater Diameter (m)	Distance/Azimuth (m/deg)	Remarks
Target Radar Site A (48-14-57N 048-31-29E)					
—	[Redacted]	BAR LOCK	[Redacted]	[Redacted]	Radar prob damaged
A1		BAR LOCK			
A2		BAR LOCK			Craters being filled
—		BAR LOCK			
—		BAR LOCK			
A3		—			
—		BAR LOCK			
A4		—			
—		BAR LOCK			
—		BAR LOCK			
—		BAR LOCK			
—		BAR LOCK			
Target Radar Site B (48-15-00N 048-31-28E)					
—	[Redacted]	BAR LOCK	[Redacted]	[Redacted]	Radar van only
—		—			
—		BAR LOCK			Radar support vehicle only
—		—			
—		BIG BAR			Radar prob damaged
B1		BIG BAR			
B2		BIG BAR			
B3		BIG BAR			
B4		BIG BAR			
—		BIG BAR			
B5		BIG BAR			Craters being filled
B6		BIG BAR and BAR LOCK			
—		BIG BAR and BAR LOCK			
B7		BIG BAR and BAR LOCK			
B8		BIG BAR and BAR LOCK			Radar prob damaged
—		BAR LOCK			
—	BAR LOCK				
—	BAR LOCK				
Target Radar Site C (48-14-53N 048-31-18E)					
—	[Redacted]	BAR LOCK	[Redacted]	[Redacted]	Radar set present
C1		BAR LOCK			
C2		BAR LOCK			Radar van not present
C3		BAR LOCK			
C4		BAR LOCK			
C5		—			
C6		—			
—		BAR LOCK			
—		BAR LOCK			Some craters being filled
—		BAR LOCK			
—		BAR LOCK			
C7		BAR LOCK			
—		BAR LOCK			Support vehicles not present
—		BAR LOCK			
C8		BAR LOCK			
C9		BAR LOCK			
—	BAR LOCK				
—	BAR LOCK				
Target Radar Site D (48-14-48N 048-31-25E)					
—	[Redacted]	BAR LOCK	[Redacted]	[Redacted]	Radar set prob damaged
D1		BAR LOCK			
D2		BAR LOCK			

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Table 1. (cont'd)

Crater	Date of Imagery	Target	Crater Diameter (m)	Distance/Azimuth (m/deg)	Remarks
D3		BAR LOCK			Elements removed from antenna Site abandoned
—		BAR LOCK			
—		BAR LOCK			
Target Radar Site E (48-15-08N 048-31-01E)					
E1		BAR LOCK			Radar prob damaged
E2		BAR LOCK			
E3		BAR LOCK			
E4		BAR LOCK			
E5		BAR LOCK			
E6		BAR LOCK			
—		BAR LOCK			
E7	—			Craters E2-6 being filled	
—	BAR LOCK				
—	—				
Target Radar Site F (48-14-39N 048-31-38E)					
—		BIG BAR			Radar prob damaged
F1		BIG BAR			
F2		BIG BAR			
—		BIG BAR			
F3		BIG BAR			
F4		BIG BAR			
F5		—			
F6		—			
—		BAR LOCK			
—		BAR LOCK			
—	BAR LOCK				

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Table 1A.
Missile Impact Area West of Terekty ASM Radar Area A

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Crater	Date of Imagery	Crater Diameter (m)	Location
1			48-15-28N 048-30-46E
2			48-15-24N 048-30-26E
3			48-15-36N 048-30-25E
4			48-15-29N 048-30-20E
5			48-15-37N 048-30-11E
6			48-15-42N 048-20-14E
7			48-15-42N 048-30-07E
8			48-15-41N 048-30-01E
9			48-15-13N 048-30-51E
10			48-15-11N 048-30-45E
11			48-15-12N 048-30-41E
12			48-15-14N 048-30-36E
13			48-15-29N 048-31-00E
14			48-15-15N 048-30-47E
15			48-15-30N 048-30-37E
16			48-15-22N 048-30-30E
17			48-15-21N 048-30-51E
18			48-15-23N 048-30-01E
19			48-14-53N 048-30-25E
20			48-14-51N 048-30-30E

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Table 2.
Terekty ASM Radar Area D

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Crater	Date of Imagery	Target	Crater Diameter (m)	Distance/Azimuth (m/deg)	Remarks
Target Radar Site A (48-14-58N 048-32-58E)					
—	[Redacted]	—	[Redacted]	[Redacted]	Prob control bunker present; grading in progress
—		THIN SKIN A-Type			Radar on hardstand near bunker
—		THIN SKIN A-Type			No impact craters discernible
A1		THIN SKIN A-Type			
KA2		—			
Target Radar Site B (48-15-02N 048-33-11E)					
—	[Redacted]	THIN SKIN A-Type	—	—	No craters discernible on latest imagery of [Redacted]
Target Radar Site C (48-15-03N 048-32-54E)					
—	[Redacted]	TUB BRICK	[Redacted]	[Redacted]	Two emitters and one generator/power trailer
—		TUB BRICK			No impact craters discernible
C1		TUB BRICK			
C2					
C3					
C4					
—		TUB BRICK			No new impact craters discernible
—		TUB BRICK			No new impact craters discernible
—	TUB BRICK	No new impact craters discernible			
C5	TUB BRICK				
C6					
C7					
C8					
Target Radar Site D (48-15-06N 048-32-46E)					
—	[Redacted]	FLAP WHEEL (poss)	[Redacted]	[Redacted]	First identification of site
D1		FLAP WHEEL (poss)			
D2					
Target Radar Site E (48-15-07N 048-33-00E)					
—	[Redacted]	BAR LOCK	—	—	Antenna-transmitter and vehicles present
					No impact craters discernible on latest imagery of [Redacted]

* Distance/azimuths from northernmost TUB BRICK

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BASIC DESCRIPTION**Terekty ASM Radar Area A**

4. (TSR) Terekty ASM Radar Area (Figure 3)—used to test antiradiation ASM against BAR LOCK and BIG BAR target radars—contains four active and two abandoned target radar sites (A through F), a support area, and a salvage area. An additional impact area with at least 20 widely dispersed impact craters is west of area A. The types of radars, crater mensural data, and the dates on which the craters were first identified are presented in Table 1.

5. (S/WN) Each target radar site consists of a flat area occupied by a BAR LOCK or BIG BAR target radar and one to three support vehicles.

Target Radar Site A

6. (TSR) Target radar site A was operational from [redacted] Four impact craters were observed at site A from 1976 through 1980. Three of the craters were direct hits. Crater diameters ranged from [redacted]

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Target Radar Site B

7. (TSR) The site was active from [redacted] with eight craters being observed from 1977 to 1979. The craters ranged from [redacted] in diameter and were [redacted] meters from the target radars.

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Target Radar Site C

8. (TSR) The site was operational when observed on imagery of [redacted] and remained so through [redacted] Nine craters were observed with diameters ranging from [redacted] All nine craters were within [redacted] of the target radars.

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Target Radar Site D

9. (TSR) The site was operational from [redacted] to mid-1977, when the site was abandoned. Three craters, with diameters ranging from [redacted] were between [redacted] of the target radars.

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Target Radar Site E

10 (TSR) The site was operational when observed on imagery of [redacted] and appeared to be abandoned in December 1980. Seven impact craters, one of which was a direct hit, were identified during the reporting period. The craters ranged from [redacted] in diameter; all were within [redacted] meters of the target radars.

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Target Radar Site F

11. (TSR) The site was operational from [redacted] Six impact craters, two of which were direct hits, were identified from 1978 through 1979. The craters ranged from [redacted] meters in diameter; all were within [redacted] of the target radars.

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Additional Impact Craters

12. (TSR) At least 20 additional impact craters (ten are shown on Figure 3), which may have resulted from missile shortfalls, were discernible in an impact area west of Terekty ASM Radar Area A during the reporting period. Locations, crater sizes, and dates on which the craters were first identified are presented in Table 1A.

Terekty ASM Radar Area D

13. (TSR) Radar area D (Figure 4) was identified on imagery of [redacted] when a probable control bunker was being earth covered. This radar area consists of five target radar sites (A through E). Radars were first observed in August 1978 when one THIN SKIN A-type radar was present at target radar site A and another at target radar site B. Target radar sites C and D are shown on Figure 5. The types of radars, crater mensural data, and the dates on which the craters were first identified are presented in Table 2.

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Corner Reflector Target Sites A Through D

14. (TSR) During this reporting period, panel arrays consisting of panels of at least two different sizes were observed in various arrangements (Figure 6). At least 27 craters were discernible at corner reflector target sites A, B, and C. Mensural data for these sites is contained in Table 3.

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Table 3.
Corner Reflector Target Sites A, B, and C

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Crater	Date of Imagery	Crater Diameter (m)	Distance/Azimuth* (m/deg)	Remarks
Corner Reflector Target Site A (48-17-37N 048-33-18E)				
A1				Five large reflector panels
A2				
A3				
A4				
—				
A5				No new craters discernible
A6				Six large reflector panels
—				
A7				Six large reflector panels; no new craters discernible
A8				Six large inner and ten small outer panels
A9				
A10				
—				
A11				No new craters discernible
A12				
A13				
A14				All panels out of alignment; centerline not determined
A15				
A16				
A17				
—	Site appeared to have been abandoned; no activity on subsequent coverages			
Corner Reflector Target Site B (48-17-10N 048-32-13E)				
B1				Two large and two small reflector panels
—				No new craters discernible; four large and five small reflector panels
B2				Five additional small panels
—				No new craters discernible; site contained two large and nine small panels
B3				Large panel hit; site contained one large and ten small panels
B4				
—				No new craters discernible; site contained one large and eleven small panels
B5				Panels appeared unchanged
—				
—				
Corner Reflector Target Site C (48-19-28N 048-24-31E)				
—				Four large and three small reflector panels
—				No impact craters discernible
C1				
C2				
C3				One small and four large panels
C4				
C5				
—				
—				Eight large and five small panels
—				No new craters discernible; site appeared unchanged

*Distance/azimuth measured from array center point

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REFERENCES

IMAGERY

(S/WN) All available imagery from [redacted] was used in the preparation of this report.

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MAPS OR CHARTS

DMAAC. USATC, Series 200, Sheet FPO235-24R, scale 1:200,000 (SECRET)

REQUIREMENT

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(S) Comments and queries regarding this report are welcome. They may be directed to [redacted] Warsaw Pact Forces Division, Imagery Exploitation Group, NPIC, [redacted]

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