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basic imagery interpretation report

# Activity at Makat and Terekty ASM Impact Areas,

25X1 25X1

MISSILE RANGES: AIR LAUNCHED FACILITIES
RE- Various

BE: Various USSR

**Top Secret** 

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25X1

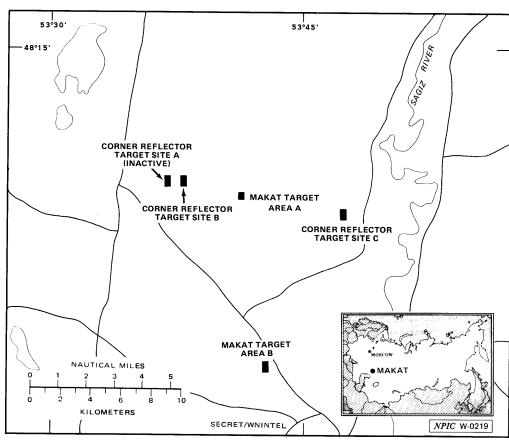


FIGURE 1. MAKAT ASM IMPACT AREA, USSR

25X1

25X1

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		20/(1
radar support equipment at site A between  The FLAP WHEEL and KING PIN were removed from the site by  No impact craters were observed near the ECM radar (Figure 3). (TSR)  8. One impact crater, a probable direct hit, was observed at target radar site C on  A BAR LOCK radar van was in a nearby	vehicle revetment, and one of its antennas was on the ground. Ground scars indicated that this van had been towed from the crater to the revetment. No craters were observed at target radar site D during this period, and target radar site B has been abandoned since mid-1979. Crater diameters, azimuths, and distances from the target radars at sites A and C are given in Table 1. (TSR)	25X1 25X1 25X1 25X1 25X1
		25 <b>X</b> 1

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Table 1. New Impact Craters, Makat Target Area B,

Dist/Az	
•	
fm Target	
(m/dog)	Domarks

25X1

Crater	Negation Date	First Observed	Diam (m)	fm Target (m/deg)	Remarks	
	adar Site A (48- BAR LOCK	02-56N 053-43-20	DE)*			
A24					FLAP WHEEL and KING PIN present since	25X 25X
A25						20/(
A26					FLAP WHEEL and KING PIN gone (removed by	25X
A27					g (,	25/
A28						
A29						
A30						
	adar Site C (48- BAR LOCK	02-52N 053-42-56	SE)*		J	
C7				N/A	Prob direct hit; BAR LOCK towed away	25X

<sup>\*</sup>Keyed to Figure 2

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### Makat Corner Reflector Target Sites A, B and C

#### Terekty ASM Impact Area

10. Terekty ASM Impact Area, approximately 165 km east of Akhtubinsk/Vladimirovka Airfield and 60 km northeast of Terekty, 25X1 contains two target radar areas—Terekty ASM Ra-25X1 dar Area A and Terekty ASM Ra-25**X**1 dar Area D -and three corner reflector target sites (Figure 4).2 Terekty ASM Radar 25X1 , a probable tracking facili-

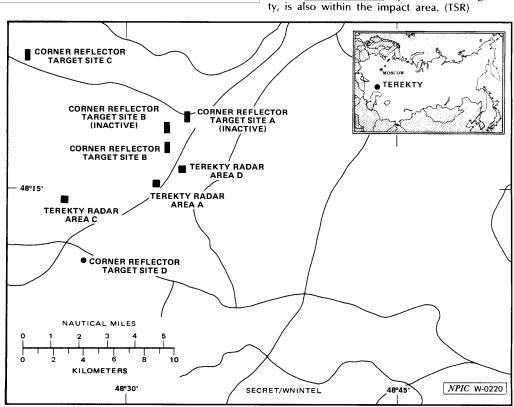


FIGURE 4. TEREKTY ASM IMPACT AREA, USSR

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Terekty ASM Radar Area A

seen. Only two new antiradiation missile impact craters were confirmed, due to limited imagery received during this reporting period. One impact crater, a direct hit, was observed at target radar site B on imagery of At target radar site C, an impact crater was observed on imagery of and the BAR LOCK radar appeared undamaged. Target radar site F was abandoned between Target radar site D and E were abandoned in mid-1977 and December 1980, respectively. Crater diameters, azimuths, and distances from the target radars at sites B and C are given in Table 2. (TSR)

12. Two possible telemetry- or electronics-associated vans have been observed north and west of target radar sites A, B, and C since [Figure 5]. Imagery evidence indicates that the vans may be associated with target radar site C. Vehicle tracks between the vans and the support area indicate that these vans are frequently used, which suggests that the vans may monitor ASM activity. (TSR)

#### Terekty ASM Radar Area D

Terekty ASM Radar Area D

13. At Terekty ASM Radar Area D (Figure 6), all five target radar sites were occupied during the reporting period. However, target radar site D was abandoned between when the probable FLAP WHEEL radar and support equipment previously present were removed; only two probable derelict vehicles remained. Fourteen new impact craters—three of which were on probable target-recognition patterns formed by graded earth—were observed. Crater diameters, azimuths, and distances from the target radars at target radar sites A, C, and E are given in Table 3. (TSR)

14. Since mid-1978, THIN SKIN A-type radar

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vere obseporting rater (A6 ating a react crate upied by nd the c	erved at target period. On o) was next to a near miss. On er (A7) was at th the FLAP WHE damaged FLAP	FLAP WHEEL rac	uring the n impact dar, indi- other im- ously oc- lirect hit, was adja-	tained varying KING PIN rac	e support area near site A has cong g amounts of ECM, TUB BRICK, AND lars as well as operational instrumen- teteorological equipment. (TSR)	25X 25X 25X 25X
Table 2. New Im		Terekty ASM R	adar Area	Α,		25X
Crater	Negation Date	First Observed	Diam (m)	Dist/Az fm Target (m/deg)	Remarks	
9	ndar Site B (48-1 AR LOCK	5-00N 048-31-28	BE)*			
39	, iii Eddii			N/A	Direct hit; BAR LOCK towed away	25X
Farget: B C10 Keyed to This table	AR LOCK  Figure 5 is classified TOP:	14-53N 048-31-18 SECRET RUFF. Terekty ASM R		D,	2 Pos telemetry/electronic vans present	25X 25X
Target: B C10 Keyed to his table Table 3.	AR LOCK  Figure 5 is classified TOP:	SECRET RUFF.		Dist/Az fm Target (m/deg)	**	
Keyed to his table  Table 3.  Crater  Target Ra	Figure 5 is classified TOP:  pact Craters,  Negation Date	Terekty ASM R  First Observed	adar Area Diam (m)	Dist/Az fm Target	present	
Target: B  Capped: B	Figure 5 is classified TOP:  pact Craters,  Negation Date	Terekty ASM R  First Observed	adar Area Diam (m)	Dist/Az fm Target	present	25X
Farget: B C10  Keyed to his table  Fable 3.  New Im  Farget Ra Farget: T A3 A4 A5 A6	Figure 5 is classified TOP:  pact Craters,  Negation Date	Terekty ASM R  First Observed	adar Area Diam (m)	Dist/Az fm Target	Remarks FLAP WHEEL and KING PIN	25X
Farget: B C10  Keyed to chis table  Fable 3.  New Im  Farget: T A3 A4 A5 A6 A7	Figure 5 is classified TOP:  pact Craters,  Negation Date  adar Site A (48-HIN SKIN A-Typ	First Observed	Diam (m)	Dist/Az fm Target	Remarks  FLAP WHEEL and KING PIN radars present.  Near miss.** Prob direct hit; damaged FLAP WHEEL chassis, KING	25X
Keyed to his table  Table 3. New Im  Crater  Target Ra Target: T  A3  A4  A5  A6  A7	Figure 5 is classified TOP:  pact Craters,  Negation Date  adar Site A (48-HIN SKIN A-Typ	Terekty ASM R  First Observed	Diam (m)	Dist/Az fm Target	Remarks  FLAP WHEEL and KING PIN radars present.  Near miss.** Prob direct hit; damaged FLAP WHEEL chassis, KING PIN present.**	25X 25X
Farget: B C10  Keyed to his table  Fable 3.  New Im  Farget Ra Farget: T A3 A4 A5 A6 A7  A8 A9 Farget: T C9	Figure 5 is classified TOP:  Pact Craters,  Negation Date  adar Site A (48-HIN SKIN A-Type)  adar Site C (48-TUB BRICK	First Observed	Diam (m)	Dist/Az fm Target (m/deg)	Remarks  FLAP WHEEL and KING PIN radars present.  Near miss.** Prob direct hit; damaged FLAP WHEEL chassis, KING PIN present.**  Intended target undetermined  2 TUB BRICKs, generator van present; distance from target not determined due to	

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g perio	Terekty Radar d. One was at	nal impact craters Area D during th target radar site TUB BRICK rada	is report- C, which	from the cer	in diameter; they also ranged nterpoint of an array of 12 reflector ged in a single row on a north-south	2
e reportagery of dar site BAR Lo	rting period. The of E. F., resulted fro OCK radar, what with another BA	nis crater was obs Another crater, m a probable dir nich was subsequ AR LOCK. This c	served on at target ect hit on iently re-	axis. By panels appea Crater diame	four of the central red damaged or displaced (Figure 7). ters, azimuths, and distances from the of the array at site B are given in Table	2
st obse	rved on			Terekty Corn	er Reflector Target Site C	2 2
				21. Two	o impact craters, both in ere observed on limited imagery of	2
	ASM Radar Are			corner reflect corner reflect (48-13-28N, cratered site. els, with fou	tor target site C. By the tor had been placed at a new location 048-24-31E), adjacent to the heavily. The array consisted of a row of panir widely spaced panels at opposite	2
ed fron ee gro	n ups of vehicles	Radar Area C was were observed. C YE airport surveil	when On	panels. The fi	array and five closely spaced inner irst crater, observed on imagery of south-	2
		adar was still pre		observed on	renter of the array. No changes were	2 2
				Terekty Corn	er Reflector Target Site D	
		Two BACK NI rea C (48-14-45N	, 048-26-	22. At	least three impact craters were ob-	2
E) prior suppo R)		_ have been in s 1 Radar Area A (I				
20.	Eight ASM imp	r Target Site B act craters were et site B (48-17-0		target consis	from the center- target site. The uniquely configured ted of a single row of nine panels a north-south axis, four FAGOT air-	
e, whic	This site re th was also de	site first identifie placed a heavily o esignated corner n. The craters ran	damaged reflector	frames, and	a cross-shaped pattern formed by rehicle tires—all within two rectangu-	2
ible 4. ew Im		Terektv Cornei	r Reflecto	r Target Site	R	
·						2
ater	Negation Date	First Observed	Diam (m)	Dist/Az fm Target (m/deg)	Remarks	
	eflector Target S SN 048-32-08E)					
	•	Target Panel Array	,			
1 2						2
- 3 <b>1</b>						
5						
5 7						
3					Corner reflector panels damaged and displaced.	
	Figure 7	SECORET DUES				
· table .	is classified TOP S	BECKET RUFF.				
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