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imagery analysis report

Soviet Long-Range Communications in Afghanistan (S)



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## **SOVIET LONG-RANGE COMMUNICATIONS IN AFGHANISTAN (S)**

### INTRODUCTION

1. Imagery from		shows that the Soviets have estab-
lished an extensive con	nmunications network in Afghanistar	n to facilitate long-range command
and control between th	e army-level command elements in k	Cabul, subordinate units throughout
	and authorities in the Soviet Union.	
	en installations in Afghanistan, relianc	
	he Soviets have also combined satellit	
	o ensure reliable contact among mos	
	ployment patterns of equipment use	
	raphs, and one table which lists all kn	
tions facilities in Afghan	istan and equipment present at these	facilities. (S/WN)

## **DESCRIPTION**

- 2. Soviet long-range communications in Afghanistan link regimental and division headquarters with the 40th Army Headquarters in Kabul and with other command authorities in the Soviet Union (Figure 1).¹ These communications nets use PARK DRIVE and WOOD BINE satellite communications sets; TWIN DISH, TWIN PLATE, modified TWIN PLATE, TWIN EAR A, and TWIN EAR fixed mast-mounted troposcatter communications sets; and HF antenna fields (Table 1). Satellite communications systems are also used by all division headquarters as well as 40th Army Headquarters (Figure 2). Additionally, four motorized rifle regiments are equipped with WOOD BINE sets, indicating that these units may act as independent regiments (satellite communications equipment is normally used only by division- and high-level echelons). (S/WN)
- 3. Troposcatter communications equipment is widely used for Soviet long-range communications in Afghanistan. A major TWIN DISH/TWIN PLATE/modified TWIN PLATE troposcatter communications net links Kabul in Afghanistan with Termez—a major Soviet border transshipment point—via Pol-E Khomri (Figure 3), which serves as a troposcatter relay position. A TWIN DISH link also extends between Termez and Kunduz (Qonduz) in Afghanistan. TWIN EAR troposcatter links are also used extensively to join high- and low-level echelon units and to connect these units to the main Kabul-Termez troposcatter net. In addition, a TWIN EAR A and a TWIN EAR fixed mastmounted link connect Kushka, another Soviet border point, via Herat, with Shindand, in western Afghanistan. A TWIN EAR A link also connects Herat and Shindand (Figure 4). The Soviets have also constructed HF antenna fields at installations in the Kabul area. (S/WN)
- 4. The use of various combinations of satellite, troposcatter, and HF communications at most major Soviet deployments provides redundant communications links between these facilities. Some units, however, such as those at Kandahar (Qandahar) and Ghazni, both in Afghanistan, do not appear to have redundant communications links and may utilize tactical communications equipment with relays or existing Afghan equipment for backup communications. (S/WN)

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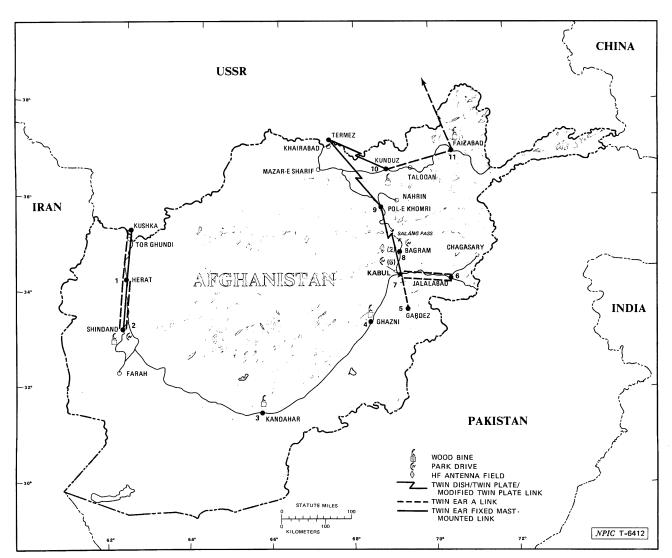


FIGURE 1. SOVIET LONG-RANGE COMMUNICATIONS NETWORKS IN AFGHANISTAN

### **SECRET**

Table 1.
Soviet Long-Range Communications Equipment in Afghanistan

Item	Facility/BE No./ Coordinates	Equipment	Remarks**
1	Herat R-412 Tropo Site 5 34-11-17N 062-13-42E	Three TWIN EAR A; two TWIN EAR fixed mast-mounted	One TWIN EAR A and one TWIN EAR fixed mast-mounted oriented north toward Kushka: two TWIN EAR A and one TWIN EAR fixed mast-mounted oriented south toward
2	Shindand Deployment Area 33-25-10N 062-18-14E	One WOOD BINE;* two TWIN EAR A; one TWIN EAR fixed mast-mounted	Shindand WOOD BINE and TWIN EAR are in the 5th Motorized Rifle Division (MRD) Hq. area. TWIN EAR A and TWIN EAR fixed mast-mounted oriented north toward Herat
	Shindand Airfield	One PARK DRIVE*	PARK DRIVE associated with the Soviet FROGFOOT A squadron
	33-23-25N 062-15-20E		
3	Kandahar Soviet MRR Bivouac	One WOOD BINE*	Existing Afghan HF antenna fields may also be utilized by the Soviets
	31-29-35N 065-52-20E		
4	Ghazni Soviet Military Camp SE  33-29-40N 068-30-00E	One WOOD BINE*	One R-409 radio relay set near the WOOD BINE, in conjunction with a relay site, could be used as a backup communications system
5	Gardez New Airfield	One TWIN EAR A	TWIN EAR A oriented north toward Kabul
	33-36-45N 069-12-21E		
6	Jalalabad Army Camp Soviet Bivouac 3	One WOOD BINE,* two TWIN EAR A	TWIN EAR A oriented west toward Kabul
	34-22-30N 070-35-49E		
7	Kabul Deployment Area SW 34-27-45N 069-05-10E	Four PARK DRIVE,* HF antenna field	The four PARK DRIVE probably support 40th Army Hq.; a fifth PARK DRIVE is sometimes present; HF antenna field consists of two fishbone 2-2-2 and two quadrant antennas; extra troposcatter communications sets stored there
	Kabul Soviet Commo Site 34-33-21N 069-03-13E	Two TWIN DISH sets, two Modified TWIN PLATE sets, two TWIN EAR A	TWIN DISH and modified TWIN PLATE sets oriented north toward Pol-E Khomri; one TWIN EAR A oriented east toward Jalalabad; one TWIN EAR A oriented south toward Gardez
	Kabul Deployment Area NW	HF antenna field	HF antenna field consists of two frequency diverse pairs of double rhombic, eight quadrant, and six probable horizontal dipole
	34-34-28N 069-06-30E		antennas
	Kabul Communications Satellite A Radcom Sta	One PARK DRIVE*	PARK DRIVE have been observed temporarily deployed there several times since 1978
	34-31-48N 069-11-23E		
8	Bagram Soviet Barracks Area	One PARK DRIVE*	PARK DRIVE is associated with 108th MRD Hq.
	34-55-45N 069-15-01E		TO THE PARTY OF TH
9	Pol-E Khomri Sov Deployment Area 35-52-14N 068-47-30E	Four TWIN DISH sets, four modified TWIN PLATE sets, one TWIN PLATE set	Two TWIN DISH sets and three modified TWIN PLATE sets oriented north toward Termez; two TWIN DISH sets, one modified TWIN PLATE set, and one TWIN PLATE set oriented south toward Kabul; equipment on ridgeline 2 nm WNW of the installation at 35-53-00N 068-45-45E
10	Kunduz Airfield 36-39-38N 068-54-33E	One WOOD BINE,* one TWIN DISH set, one TWIN EAR A	WOOD BINE is in the 201st MRD Hq. area; TWIN DISH set oriented NW toward Termez; the TWIN EAR A oriented east toward Faizabad
11	Faizabad Airfield 37-07-05N 070-31-15E	One WOOD BINE,* two TWIN EAR A	One TWIN EAR A oriented west toward Kunduz; one TWIN EAR A oriented north toward the USSR; TWIN EAR are on a hill 3 nm east of the airfield at 37-06-15N 070-34-20E

<sup>\*</sup>The orientation of WOOD BINE and PARK DRIVE SETS could not be accurately determined at these facilities.

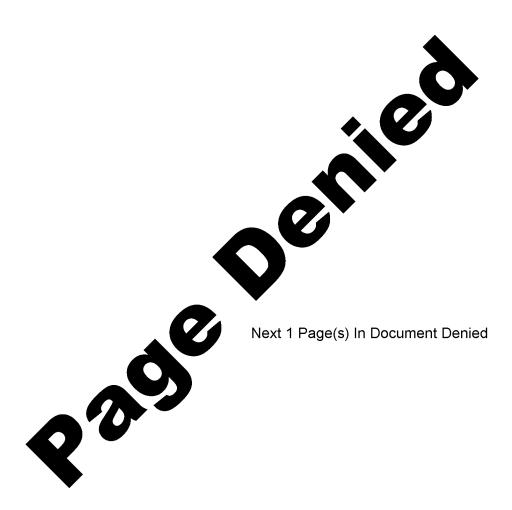
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<sup>\*\*</sup>Unit Designators are taken from Reference Document 1.



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IMAGERY		
All applicable satellite imagery preparation of this report. (S.	acquired from January 1980 through	was used in the
DOCUMENT		
1. DIA. DDB-1100-UR-81, Ground	d Order of Battle: USSR (U), Jan 81 (SECR	RET/NOFORN/WNINTEL*)
*Extracted information is releasable	O	
RELATED DOCUMENTS		
NPIC IAR-0032/82-1, Upgrading	of Communications Network between l	JSSR and Afghanistan, Jun 1982
DIA, DIAIAPPR 57-82, USSR: C 1982 (SECRET/NOFORN/WI	ommand and Control Communications	Below Army Level (U), 25 May
Comments and queries regarding	g this report are welcome. They may be	directed to
	Third World Forces Division, Imagery	Exploitation Group, NPIC,

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