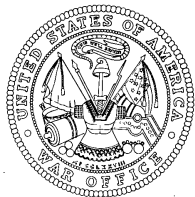


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JOINT PHOTOGRAPHIC INTELLIGENCE REPORT

No. Pages: 50  
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RESTUDY OF ELECTRONIC INSTALLATIONS  
USSR AND EUROPEAN SATELLITES



PIC/JR-13/59  
JUNE 1959

PUBLISHED AND DISSEMINATED BY  
CENTRAL INTELLIGENCE AGENCY  
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**PREFACE**

This Joint Photo Intelligence Report has been prepared by the Army and Navy, under Army chairmanship. It consists of a restudy of all electronic installations appearing on [REDACTED] photography of the USSR and the European Satellites, and has been accomplished because of the intelligence significance of such installations and the fact that they are often related to other military activities. In addition, it was believed that valuable additional information would be derived with improved techniques of exploitation resulting from the use of more sophisticated equipment and the experience gained by photo analysts.

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#### PROCEDURE

This report uses all [REDACTED] missions covering the USSR and the European Satellites flown prior to [REDACTED]. The following procedure was used in its production:

1. A restudy was made of all electronic or suspected electronic installations and some unidentified items extracted from Mission Review Reports or Mission Coverage Summaries, except electronic items clearly related to airfields, AA fire-control radar and electric power facilities (such as transformer substations). However, many of the latter items were checked for possible misinterpretation. For instance, many electronic installations reported at airfields were checked to determine whether they had direct connection with that airfield. Also, many reported transformer stations were checked for possible misinterpretation.
2. After extraction of the electronic or suspected electronic items from the MRR's and the MCS's, each item was checked to determine whether it had been included in other reports. All detailed reports are included, but when detailed reports were not available, no effort was made to include more than one other report which mentioned the item. Therefore, the reports listed should not be considered the only reports covering those items. Also, no attempt was made to evaluate the accuracy or completeness of any report. In addition some detailed electronic reports were found which covered items not listed in the MRR's or MCS's. These items are included in a separate listing at the end of this report.
3. When it was determined that no detailed report had been written on an item, the prints (or duplicate positives) were drawn and the item was examined. If considered of sufficient importance to warrant possible further study, an electronic specialist was called in to examine the item and made a more authoritative interpretation. Nine items, eight of which are in Satellite nations, were found to be worthy of immediate study.
4. The following numerical system was used to evaluate the relative importance of items: 1 - possibly of immediate interest; 2 - probably of future interest; 3 - possibly of future interest; 4 - doubtfully of future interest; 5 - items other than electronics (such as oil derricks, lightning arrestors, etc.) It should be noted that this system is arbitrary and is based on the size, type, and location of the items as well as the potential for future exploitation due to scale and quality of photography.

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MISSION	PRINTS	MRR	PAGE	COORDINATES	WAC	OTHER REPORTS	MRR DESCRIPTION	INTERPRETATION	EVALUATION
			4	50° 42' 17° 23'	232	None	Electronics installation with 3 towers.	Possible radio station with 3 lattice towers, 2 buildings, possible cooling facilities, no security (20 NM WNW of OPPELN, POLAND).	2
			4	46° 23' 23° 53'	251	None	Probable radio station with 5 tapering lattice masts arranged in right angle "V", opening toward NW- OCNA MURESULVI.	MRR description substantially correct. This is possibly a jamming station (20 NM SSE of CLUJ, RUMANIA).	1
			5	44° 14' 28° 36'			Probable radio station, 6 tapering lattice towers, each with a control building, CONSTANTA N.		
			3	46° 11' 21° 18'		AF DPIR 58-14 (2 RTS)	Radio station, 2 tapering lattice towers-ARAD.		
			5	47° 09' 20° 09'		None	Radio station, 1 tapering lattice tower- SZOLNOK, NW	MRR description substantially correct	4
			5	47° 14' 19° 12'	251	None	Possible electronics installation, 2 low masts or towers.	Large open area, 1 control building, 2 towers, 2 sets of 4 scars in square patterns possible "guys" for masts (not visible). Area possibly still under construction- (12 NM SSE of BUDAPEST, HUNGARY).	2
			6	47° 22' 19° 00'		None	Radio station, single mast, double tapering lattice-type tower, NW of SZIGETZENIMIKIOS.	MRR description substantially correct. Radio broadcast.	3
			6	47° 25' 18° 57'	252	None	Radio station, 9 masts, tapering lattice-type, TUSCULARUM N.	Probable curtain array, similar to area near SOFIA (5 NM SW of BUDAPEST, HUNGARY).	1

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			5	53°07' 23°35'		Report in progress (8 buried fuel tanks).	U/I installation, 8 circular objects approximately 90' in diameter.	8 buried fuel tanks	
				53°07' 25°59'		Area covered by ARMY DPTIR-1-57	Radio station, BARANOVICH W	1 tower with apparent rotating object, probably radar. AA with probable fire-controlled radar. No other significant electronics noted.	3
						No electronics included.	Ground radar		
			7	58°08' 30°18'		Area covered	Electronics installation, probably radio navigation	Several beacons are visible, all connected with A/F. Any electronics on these prints are probably connected with SOL'TSY A/F.	4
			10	58°38' 31°20'		None	U/I installation, probably electronics, W of A/F	No significant electronics noted on these prints.	4
			3	59°46' 30°10'		CIA Brief 36-57 (Institute of Aviation Instruments).	U/I installation, possibly electronics.		
			6	59°44' 30°02'		CIA Brief 27-57 (Television Institute).	U/I installation, possibly electronics		
			10	60°05' 29°56'		None	U/I electronics installation, possibly navigational aid (RDF). Between LENINGRAD and SESTRORETSK, USSR.	Probable DF-Fixed 4 or Fixed 8. There is also a circular area resembling a KRUG site nearby, but it is held as doubtful due to its small size.	

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				60°42' 29°47'	103	None	Communications center.	Radar center. Secure area with 2 radar towers (32 NM E of VYBORG, USSR).	2
			2	59°44' 28°30'		Numerous reports cover items in this area- no electronics noted. (Abandoned A/F; Possible torpedo test range).	U/I installation, possibly electronics. Destroyed barracks area with possible electronics site.	4 short towers in approximate square with cable scars leading to center- possible Adcock DF; no electronics noted at abandoned A/F or in destroyed barracks area.	3
			4	59°26' 24°37'		Area covered by ARMY DPIP-13-58; ARMY SPIR-19-58; AF Summary; PI SP 2-57. No electronics reported.	U/I installation, possibly electronics.	One U/I installation with ground scars-no recognizable pattern (probably construction). No evidence of significant electronics.	3
			11	56°56' 24°05'		ARMY PROJECT 25-58 (radio station). Also covered by EW-SJ-58-	RIGA Complex with electronics center.		
			3	56°49' 21°03'		None	Navigation aid (lighthouse).	Single tall tower in secure area with 5 buildings-possible radar.	3
			10	56° 21°		None	3 towers 3000' apart in straight line.	3 lattice towers, no security or other facilities. Not power, probably not communication- possibly navigation aid.	3

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			6	54°14' 15°49'		None	Military installation with possible electronics.	3 buildings and 2 masts	3
			6	54°12' 13°33'		None	Possible electronics or navigation aid.	Short tower on coastal promontory-possible radar or navigation beacon.	4
			11	51°47' 19°28'		None	LODZ Complex with communications facilities.	6 possible short towers, 1 in woods and 5 nearby, near secured area; cleared area with 2 buildings and shadows of possible stick masts; 2 possible towers near multi-storied building. (Scale and quality of this photography make identification of electronics difficult.)	4
			2	51°45' 19°28'			LODZ Complex with electronics industry.		
			2	52°44' 24°53'		None	Possible bombing range. 3 "x"'s in large circles on ground, 9 silhouette aircraft.	MRR description probably correct. No electronics visible.	4
			3	53°38' 27°27'		ARMY SPIR-25-58	Radio station (confirming report).		
			4	53°54' 27°33'		ARMY DPIR-2-57	MINSK Complex with electronics industries.		
			5	54°23' 28°45'		None	U/I installation, possible electronics site.	Small secured area, no visible electronics.	4
			8	55°28' 37°22'		SPIR-64-57 NAVY CIA Alert-5 [redacted] NAVY NI-PX00055	Electronics installation- 2 large concentric circles.		
			8	55°29' 37°21'		[redacted]	U/I installation, possible other electronics.		

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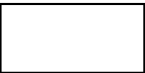
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			2	58° 08' 30° 18'		Also covered 	SOL'TSY A/F with electronics.	All electronics in this area probably connected with A/F.	4
			4	53° 17' 15° 06'		None	Military installation-probably electronics site, 55 buildings, fenced.  Radar site.	No visible electronics. Prints mistakenly reported on MRR as 98-100VV. However, the Stargard Antenna farm was found on these prints, and reported in JB-8-59 (53° 18' 15° 07').	4
			7	54° 15' 19° 45'		None	Probable early warning radar W of DREWSDORF, 1 Giant Wuerzberg Radar & tower.	Possible dish-shaped radar in scar area.	3
			8	52° 09' 15° 24'		None	Possible electronics installation in double-fenced area 550'square.	No visible electronics.	4
			10	51° 45' 12° 51'		None	Radio antenna on hilltop.	One tower, no other visible facilities.	4
			5	46° 55' 18° 07'		None	Radio station, 2 lattice-type masts, transmitter building and other buildings. ZSOFIA.	Radio station, 1 lattice-type mast, transmitter building and other buildings, 2 cooling ponds.	3
			10	47° 01' 19° 49'		None	Possible electronics, single mast E of NAGYKOROS.	Single mast, several buildings, no security visible.	4
			5	47° 10' 19° 50'		None	CEGLED Complex with communications center.	No significant electronics visible in this area.	4
			12	47° 11' 20° 14'		NAVY Sum PI 113	Radio station with single lattice type mast, transmitter building, E of SZOLNOK.		

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			13	47°25' 20°46'		None	Possible electronics W of KUNMADRAS.	Associated with A/F.	4
			6	51°06' 19°43'		None	Possible electronics.	One area with 1 tall mast, no security; possible small radio station. One area with lattice tower with possible dish on top, no security visible; probably not electronics. One area with lattice tower, possible dish on top, no visible security; probably not electronics.	3
			14	50°19' 18°41'		None	Tower, possible radio transmitter-N of GLEWITZ.	1 tower, possible radio transmitter, no buildings noted.	4
			6	45°10' 35°48'		None	Probable radio station N of UZUN-AKAK.....	1 tall lattice tower, probably a well.	4
			7	44°33' 33°35'	250	AF Sum PI SP-2-57 covers this area M13-57(CIA)	Possible electronics site on ridge N of ZOLOTAYA BALKA.	Area 5 NM SW of SEVASTOPOL, under consideration for area electronics	1
			8	44°33' 33°33'	250	AF Sum PI SP-2-57 covers this area M13-57(CIA)	U/I installation NE NIKOLAYEUKA.	See above.	1
			8	44°33' 33°34'	250	AF Sum PI SP-2-57 Covers this area M13-57(CIA)	Naval radio station.	See above.	1
				44°33' 33°29'	250	AF Sum PI SP-2-57 Covers this area M13-57(CIA)	Token Radar N of BESKOVA.	See above.	1
				44°30' 33°29'		See above	Possible electronics installation E. MYS FIOLENT.	See above.	1

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				44°34' 33°30'	250	AF Sum PI SP-2-57 covers this area M13-57(CIA)	U/I installation, possible location of Naval Radio Station.	See above.	1
				45°08' 33°37'		JR 2-57 holds radio trans- mission sta- tion in this area, no coordi- nates given.	U/I installation, 10 build- ings, 1 high tower.	MRR description substantially correct.	4
			13	46°27' 30°37'		None	20 buildings, possible electronics site.	2 possible towers, probably not electronics.	4
			13	46°34' 30°37'		None	U/I circular object SW ODESSA, possible elec- tronics.	Probably agricultural.	4
			14	46°14' 30°12'		None	Possible radio station with 1 tower and 4 buildings-W of TURLACHI.	MRR description substantially correct.	4
			17	48°05' 20°44'		None	U/I electronics instal- lation near MISKOLC.	One tower, possible radar.	4
			17	48°02' 20°49'		None	Electronics site 1 mile E of MISKOLC.	Secured area with one building and diggings in circular pattern, possibly electronics.	4
			3	48°31' 17°43'	232	None	Radio station at VELKOSTOLANY.	Radio station with 3 tall towers, 3 or more rhombics, cooling facilities, and other associated facilities (37 NM NE of BRATISLAVA, CZECHOSLOVAKIA).	1
			8	50°04' 14°26'	231	None	PRAGUE Complex with electronics center.	Possible jamming facility utilizing 7 self-supporting lattice towers. No cooling facilities can be identified	1

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			3	50°14' 13°16'	231	None	U/I objects SW CHOMOTOV arranged symmetrically- 4 large round objects and 13 smaller, connected by large cables or pathways (CZECHOSLOVAKIA).	Unable to identify through photography of collateral. Not missiles, probably not electronics. 4 large objects appear to be circular scar areas with possible buildings in form of "X" or cross. 8 of smaller areas appear to be similar to these. The pathways or cable scars are questionable. Further attempts at identification are being made.	2
			4	43°39' 22°37'		None	Possible small radio station.	Negative. One tall pole part-way down in gully is anchor pole for junction point of power line.	4
			5	43°25' 24°37'		None	PLEVEN Complex with communications center 1 mile N.	Area with 1 building and 1 possible stick mast. No significant electronics visible.	4
			10	43°25' 24°44'	322	None	Radio station with 2 towers.	Standard broadcast, 2 vertical radiators (guyed) (5 NM E of PLEVEN; 75 NM NE SOFIYA, BULGARIA).	1
			10	43°14' 24°53'		None	Possible small radio station.	1 large building, single tall mast.	4
			13	43°12' 27°54'		None	STALIN (VARNA) Target Complex, including communications center.	Cloud cover and obliquity precludes interpretation (communications installations substantiated by collateral).	3
			13	43°23' 28°27'	323	None	Probable electronics installation, earth covered with mast on top.	U/I tower with 2 platforms and/or dishes-possible TV or microwave (Black Sea coast, 26 NM ENE of VARNA, BULGARIA).	2

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[redacted]	[redacted]	[redacted]	16	44° 03' 26° 36'		None	Probable radio station.	1 tower and 1 building.	4
[redacted]	[redacted]	[redacted]	4	42° 42' 23° 19'		SOFIYA Complex currently being covered by area elec- tronics report.	SOFIYZ (SOFIYA) Complex with communications center.		
[redacted]	[redacted]	[redacted]	7	41° 22' 19° 43'		414-X (NAVY) TIRANE radio station. AF Sum PI A-10 (also covered on [redacted])			
[redacted]	[redacted]	[redacted]	6	41° 22' 19° 43'		414-X (NAVY) Probable radio station AF Sum PI NE TIRANE A-10 (also covered on [redacted])			
[redacted]	[redacted]	[redacted]	2	40° 29' 19° 16'		DPIR SP-115 (SAC)	SAZAN ISLAND Sub Base with probable electronics installation on S shore and on N shore.		
[redacted]	[redacted]	[redacted]	3	39° 45' 20° 02'		None	Possible electronics installation.	Small installation, no visible electronics.	4
[redacted]	[redacted]	[redacted]	4	41° 07' 20° 02'		Currently being covered with 2 radar units. on JB-8	Possible TOKEN radar		
[redacted]	[redacted]	[redacted]		69° 34°		[redacted]	Ground radar along cliff of OSTROV KILDIN.		

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				69°14' 33°34'		IPIR 411-X (NAVY) IPIR 390-X (NAVY)	Marine navigation and lighthouse.  Possible navigation wireless station (possible early warning radar).		
			3						
			4				U/I installation, track and buildings, radar masts.		
				69°18' 33°28'		IPIR 388-X (NAVY)	Radar site (TOROS ISLAND).		
			4	69°10' 33°21'		None	Probable radio station.	2 stick masts on top of building. (N of MURMANSK).	3
			5	69°03' 33°38'		None	Probable military training installation with possible electronics.	1 tower on hilltop; possible radar on point-no significant electronics.	4
			6	69° 32°		None	Possible radar.	1 small tower on side of hill- could be anything.	4
			8	69°00' 32°56'	51	None	Electronics installation W of ROSTA, with 11 buildings, mast antennas, "Y" shaped and 2 cable scars (USSR).  Electronics site, equipment not specified.	Probable radio station under construction, 2 cooling ponds, cable scar to power line, crane, ground scars in tripod pattern (probable "guys" for future mast) (4 NM NW of MURMANSK.)	2
				68°55' 33°00'		IPIR 395-X (NAVY)	MURMANSK Communications Center and ground radar.		
			7			DPIR-T-58-4 (ARMY) IPIR 354-X (NAVY)	MURMANSK Radio Station, 1 tall stick mast and several small fenced buildings.		

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			7	68°56' 32°59'		None	Probable electronics site under construction. Electronics installation W of ROSTA.	AA occupied with radar; secure area, 2 buildings, 3 short masts.	4
				68°52' 33°11'	51	None	Probable communications center or electronics site with 18 buildings, 5 fenced areas, 2 tower-type antennas, and 6 whip antennas.	Installation contains 5 or 6 stick masts and 1 possible short lattice tower. (5 NM SE of MURMANSK.)	2
				68°50' 33°07'		DPIR-T-58-4 (AF) calls this a "Military area under construction."	Military installation, probably electronics, with 44 buildings, "odd-shaped tower objects," buried cable scars and subdivided fencing.	Possibly electronics--3 or 4 possible towers, no visible antennas.	3
			6	68°51' 33°01'		DPIR 289 (A)-AF	MURMANSK/KOLA A/F with radio station (5 buildings and 2 masts). Radio equipment, ground-fixed.		
				68°51' 33°01'					
			7	68°47' 32°56'		NAVY DPIR 12-D IPIR 344-X (NAVY) IPIR 391-X (NAVY)	KRUG DF installation, SE MURMASHI, base diameter 820'.		
			8				MURMASHI KRUG installation, 40 masts with cage antennas, buildings.		
			9	68°47' 32°58'			Electronics installation-KRUG HF/DF station with 40 cage antennas and 1 control building.		

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				68° 47' 32° 56'			KRUG DF-MURMASHI		
			8	68° 46' 32° 59'		[redacted] The Krug site is same as above. The 4 other sites are not covered	Communications center and radar installation, 5 sites of DF communications, KRUG-type with rotating radar type device. Others with towers and whip-type bunkers.		
				68° 46' 32° 59'			Communications center, ground radar, KRUG site, and electronics towers with masts.		
				68° 48' 32° 47'		IPIR 391-X (Probable communications station)	Probable radar site with fence.		
			8	68° 29' 33° 12'		NAVY Sum PI 416-X	U/I installation under construction with tower and 22 buildings.		
			9	68° 14' 33° 17'		Report in progress.	Communications center.		
			9	68° 14' 33° 17'			Possible communications center.		
			9	68° 08' 33° 19'		None	Probable communications center under construction, tall lattice antenna, cable scars, 44 buildings, near barracks.	Probable standard broadcast.	3
			12	67° 53' 33° 06'		[redacted] BOLSHYA IMANDRA	Probable communications station with double fence, tower, extensive construction.		

Electronics site, equipment

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				69° 31°		None	Lighthouse and ground radar.  PECHENGA BAY possible radar station, several buildings on point of land.	Possibly correct-no evidence of significant electronics.	4
			15	69°57' 31°56'		None	Probable electronics installation with numerous cable scars in triangular pattern, earth mound with object on top, area still under construction.	Coastal defense site (probably WWII).	4
			12			None	Electronics installation on coast.  Electronics site, equipment not specified.		
			15	69°38' 31°22'		IPIR 366-X (NAVY) ARMY SPIR-4-56	Probable rocket launching site and support electronics installation under construction with antennas and probable radar screens.		
			3	42° 23°		None	Communications center, 5 buildings and 2 antennas.	Installation on mountain top with possible antenna in pit.	4
				42°44' 23°29'		None	U/I large fenced area with probable clusters of antennas indicating possible communications center.	Receiving site utilizing single bay fishbones. (7 NM ENE of SOFIYA, BULGARIA.)	1
			1	42°40' 23°30' (Approx.)	332	None	Possible communications center, 7 buildings, and numerous antennas.	Receiving site utilizing single bay fishbones. (6 NM E of SOFIYA BULGARIA.)	1
			3	42° 23°		None	Possible communications center, 16 buildings fenced.	Same area as [redacted] above.	25X1

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				42°27' 23°46'		AF DPIR-T-57-5	Electronics installation with 8 lattice masts, 2 tall stick masts, numerous small stick masts.		
				42° 23°			Communications center, secured, 5 buildings, and 8 antennas.		
				42°42' 23°37'			Radio station, 8 tapering lattice towers, numerous pole-type masts, and 5 buildings-STOLNIK.		
			5	42°35' 23°42'		AF DPIR-T-57-5	Radio station, single double-tapering lattice mast, 5 buildings.		
			3				Communications center, 5 buildings.		
			7	42°15' 24°43'	322	None	U/I installation, possible electronics site, 6 buildings, pyramidal earth structure with U/I object, NW KLIMENTINA.	U/I object is probably a small radar dish. The radar seems to be within an area that appears to be a headquarters area. No antennas are apparent as would be the case if the area were primarily electronics. (5 NM NNW PLOVDIV, BULGARIA.)	2
			9	41°48' 26°07'	322	None	Small U/I installation, possible electronics site.	Probable Early Warning radar.	2
			3	43°32' 28°36'		PIM-23-59	U/I installation with 32 dispersed probable hard-surfaced stands (circular), some with object in center.	Collateral identifies this installation as part of SHABLA oil fields.	4
			11	44°34' 33°31'	250	AF Sum PI 2-57, CIA M13-57 cover this	Possible electronics 2 NM SE of SEVASTOPOL A/F.	This area is under consideration for a detailed electronics study.	1

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			11	44°32' 33°26'	250	AF Sum PI 2-57, CIA M13- 57 cover this area.	1 tower 3 NM E of SEVASTOPOL A/F.	See Above.	1
			13	45°13' 35°14'		NT-PD0009 (Confirming). Details "not possible due to scale."	Trails and ground scars connecting stands with buildings; probable elec- tronics site with 1 probable Open ADCOCK.		
			13	45°10' 35°32'		None	8 sets of buildings, 3 of which have tall tower-like objects nearby.	Probable oil derricks, VLADISLOVOKA oil field (45°10' 35°25')	4
			14	45°15' 35°15'		HTA 35-57 PIM JB-9-58 HTA/JR-2/57	Possible electronics site with large circular pattern in isolated field; possibly connected with nearby missile site.		
			12	45°12' 35°50'			Possible electronics site 3 miles E of KENEGEZ-circular pattern.		
			2	41°19' 69°26'		IPIR 144-X (NAVY)	KRUG-type DF station.		
			1			SPIR 407 (NAVY) NT-PD0009	Circular antenna array.		
			3	41°18' 69°13'		IPIR 127-X (NAVY)	TASHKENT communications center.		
			3	41°13' 69°09'			Electronics installation with 2 tall masts with cross pieces, several small towers, and 1 building.		

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[redacted]	[redacted]	[redacted]	3	41° 13' 69° 09'			3 antenna arrays-3 masts, 15 lattice towers, double fence.		
[redacted]	[redacted]	[redacted]	3	41° 27' 69° 10'		IPIR 145-X (NAVY)	Electronics installation		
[redacted]	[redacted]	[redacted]	3				Probable electronics installation, elaborate antenna array.		
[redacted]	[redacted]	[redacted]	3	41° 29' 69° 09'		IPIR 146-X (NAVY)	Antenna farm.		
[redacted]	[redacted]	[redacted]	5	44° 30' 66° 16'		[redacted]	U/I installation with 2 adjacent fenced building areas connected by road to tall steel tower.		
[redacted]	[redacted]	[redacted]	11				Possible electronics installation; 1 tower and 2 secured areas.		
[redacted]	[redacted]	[redacted]	4				Two U/I secured installations with road to large lattice tower.		
[redacted]	[redacted]	[redacted]	12	45° 65°		None	Possible communications center, 1 large pole antenna.	Antenna (or smokestack) on top of building. About 10 buildings in area-possible industry or mining. No other evidence of electronics.	4
[redacted]	[redacted]	[redacted]	13	45° 64°		[redacted]	Radio station in secured area, 2 masts.		
[redacted]	[redacted]	[redacted]	8	45° 30' 64° 04'		[redacted]	DZHUSELY A/F with radio station, 9 stick masts.		
[redacted]	[redacted]	[redacted]	12				Radio station in secured area- 10 masts.		

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			13	45° 63°	SPIR-T-57-10 IPIR 3-57 (ARMY) DPIR SP-9-57 (SAC)	Communications station with 80 pole antennas, security fence (TYURA TAM).		
			13	45° 63°	SPIR-T-57-10 DPIR SP-9-57 (SAC) IPIR 3-57 (ARMY)	Communications station, security fence, numerous pole antennas (TYURA TAM).		
			14	45° 62°	[redacted] (Vicinity of TYURA TAM)	1 lattice-type tower.		
			14	45° 62°	None	1 lattice-type tower.	Similar to tower immediately above (vicinity of TYURA TAM).	3
			14	45° 59°	JB-18-58	Communications center with 2 antennas.		
			17	40°17' 71°58'	None	MUYAN-1 extremely tall mast, several small masts.	1 tall mast and 8 small masts (rows of 5 and 3), 3 buildings.	3
			7	39°41' 73°15'	IPIR 140-X (NAVY) Joint Memo 17-58 (SARY-TASH)	Electronics installation.		
			11			Possible electronics installation.		
			3	42°50' 86°40'	None	Settlement of 13 buildings with possible radio tower on one.	MRR description substantially correct.	4
				36° 78°	None	Communications center.	Doubtful-small secure area with no visible electronics.	4

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[redacted]	[redacted]	[redacted]	2	46° 19' 78° 29'		None	Double-fenced area containing 4 buildings and 2 towers.	MRR description substantially correct. [redacted] for further coverage.)	4
[redacted]	[redacted]	[redacted]	2	46° 19' 78° 29'		None	Probable communications center.	Double-fenced area containing 4 buildings and 2 towers.	4
[redacted]	[redacted]	[redacted]	2				Electronics site.		
[redacted]	[redacted]	[redacted]		52° 84°		None	VHF microwave station.	Probable relay-1 tower with road.	3
[redacted]	[redacted]	[redacted]	3	56° 57' 86° 09'		None	U/I fenced industry under construction with probable antenna mast.	Small area with 1 possible mast. No significant electronics.	4
[redacted]	[redacted]	[redacted]		56° 45' 84° 42'		None	Radar.	Possible AA fire-controlled radar.	4
[redacted]	[redacted]	[redacted]	3	56° 25' 84° 25'		None	Broadcast antenna and building.	MRR description substantially correct.	4
[redacted]	[redacted]	[redacted]	4	55° 08' 82° 59'	162	None	New radio communications station.	One area, probably standard broadcast (guyed mast); upper area also transmission, probably HF rhombics (4 NM ENE of NOVOSIBIRSK, USSR).	1
[redacted]	[redacted]	[redacted]		54° 55' 83° 06'		[redacted] (NOVOSIBIRSK Communications Center).	Electronics site.		
[redacted]	[redacted]	[redacted]	5	55° 00' 82° 35'		IPIR 164-X (NAVY) (NOVOSIBIRSK W)	Large communications center.		
[redacted]	[redacted]	[redacted]				B-56-8 (CIA)	Large communications center.		

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							Electronics installation with 39 large lattice towers, numerous small towers and buildings (reported at 54°55'/82°52')		
			2	46°19' 78°29'		None	Probable communications center.	Double-fenced area containing 4 buildings and 2 towers. (See [REDACTED] further coverage.)	4
							Electronics site and radar.		
			8	43°57' 77°35'		IPIR 177-X (NAVY) [REDACTED] APT 53-7 (ARMY) NT-PD0009 (NAVY)	DF communications station.		
							Power generator and DF.		
				43° 77°		None	Electronics site.	Fenced area, 4 buildings, no visible electronics.	4
				43°30' 76°59'		IPIR 153-X B-57-8(CIA) DPIR 3(NAVY)	Large communications installation.		
							ALMA-ATA electronics installation with 26 large lattice towers, numerous small towers, and buildings.		
							Large electronics site.		

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			8	43° 23' 76° 59'		IPIR 153-X (HIF-PIC)	Communications center.  Radio broadcasting station and electronics site.		
				43° 21' 76° 58'		IPIR 153-X (HIF-PIC)	Radio broadcasting station and antennas.  Probable electronics site.		
				43° 22' 77° 01'		PIB B-7-58 (CIA) ARMY PROJECT 52-58 (2 sites)			
				42° 75°		None	Electronics site.	1 lattice-type tower and 5 stick masts-2 buildings.	3
				42° 42' 75° 53'		None	Possible communications center with 3 large and numerous small stick masts, 11 buildings.	Unable to locate this in- stallation. No significant electronics are visible on these prints.	4
			7	55° 00' 73° 13'		None	Probable Open Adcock DF.	OMSK. Possible Adcock-secure area, dirt road, near A/F, 4 buildings or bases in square, 1 in center. Possible antenna visible in center of 1 building. Area possibly under construction.	
			9	49° 52' 73° 08'		PIB 97-57 (CIA)	KARAGANDA electronics installation.		

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							Electronics site.		
			9	46° 55' 75° 15'		None	Communications center.	Storage area with lightning arrestors.	4
			12				VOLFARM with 1 communications area consisting of 9 probable stick masts and 4 control houses.		
				46° 75°			Electronics site.	Probable storage with lightning arrestors.	4
			10	44° 40' 74° 18'		None	Open pit mine with possible communications center.	Possible copper mine. One installation, probable explosives storage, with lightning arrestors.	4
			13	44° 40' 74° 30'			U/I complex 1 communications center consisting of 4 probable stick masts and 3 control houses.		
			11	38° 03' 74° 22'		SPIR-59-57 (ARMY) IPIR 21-57 (ARMY)	Probable communications center.		
			1	50° 27' 77° 43'		SAC DPIR-SP 219	[redacted]		
				50° 77°		None	Possible radio link station.	Secured area with 3 buildings and guard shack. 1 possible tall stick mast, 2 possible very short masts, probably associated with test area above.	4

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			3	50°00' 79°45'		None	Possible electronics	8 small buildings and 1 lattice-type tower.	4
				50°21' 80°15'		None	Radio broadcasting station.	Possibly correct. 1 tower in probable military headquarters area; another possible tower in adjacent area. A/F nearby.	4
			3	38°29' 68°48'		IPIR 215-X (NAVY) JP-11 DPIR 4-D (NAVY)	Large communications installation, S. STALINABAD, 2 buildings, 4 towers, 28 antennas, 45 buildings.		
			22	38°29' 68°48'			27 towers, 4 masts, 2 buildings, KOTASH.		
			1	38°28' 68°49'			Radio station or possible jamming station with 31 buildings, 30 pylon towers, 4 stick masts.		
			22	38°33' 68°48'	336	DPIR 4-D (NAVY) Radio station with 4 masts	STALINABAD radio station.	Area with 4 stick masts, 5 buildings, and pond- possible small radio station. Area with 2 tall stick masts, 2 other possible masts, numerous buildings- probable radio station; 1 tall lattice tower (this is possibly the reported TV tower in N. STALINABAD).	2
			5	40°49' 69°40'		None	ALMALYK (Complex) with 1 very high heavy lattice structure.	Cooling tower under construction.	5

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[redacted]	[redacted]	[redacted]	6	40°36' 69°40'		None	Revetted storage with tall mast-like objects at both ends of 4 buildings.	MRR description substantially correct. Not electronics.	
[redacted]	[redacted]	[redacted]	2	45° 63°		SPIR-T-57-10 IPIR 3-57 (ARMY) DPIR SP-9-57 (SAC)	Guided missile testing complex, large communications center (TYURA TAM).		
[redacted]	[redacted]	[redacted]	4	46° 65°		None	Possible electronics site-scars.	Possible radio relay.	3
[redacted]	[redacted]	[redacted]	9	46°05' 65°15'		IPIR X-248 (NAVY)	U/I installation with short mast and shack in pit.		
[redacted]	[redacted]	[redacted]	10	42°10' 69°54'		None	Possible electronics installation with 3 tall masts, small building.	MRR description substantially correct.	3
[redacted]	[redacted]	[redacted]	13				Possible electronics installation with 3 tall masts in isosceles triangle.		
[redacted]	[redacted]	[redacted]	7	41°19' 69°26'		IPIR 144-X (NAVY) SPIR 407 (NAVY) [redacted]	DF communications station. [redacted]		25X1
[redacted]	[redacted]	[redacted]	5	40°49' 69°40'		None	ALMALYK (Complex) with 1 very high lattice structure.	Cooling tower under construction. [redacted]	5 25X1
[redacted]	[redacted]	[redacted]	12	40°50' 69°31'		None	Explosives storage with 5 tall tower or stack structures.	MRR description substantially correct. Not electronics.	5

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			6	40° 36' 69° 40'		None	Revetted storage with tall mast-like objects at both ends of 4 buildings.	MRR description substantially correct. Not electronics.	5
			35	39° 53°			Possible radio station.		
			6	40° 04' 53° 01'		NAVY IPIR 295-X JM 4-57 AF DPIR-27-57 SIR #1 (CIA)	KRASNOVODSK A/F with GCA, parabolic radar, and 2 U/I radar-type installations.		
			1,2	40° 04' & 40° 02' 53° 06' & 52° 57'			Communications center with 8 buildings and 20 stick-type masts.  Electronics installation with 1 stick mast, 1 lattice mast, and 4 buildings.		
			33	40° 52° & 53°		See above.	2 communication centers with 7 buildings and 20 poles each. Electronics center-large U/I screen. 2 possible radar sites, 1 N of communications center, 1 E of refinery.		
			6	40° 03' 52° 54'		None	Probable radar site NW of KRASNOVODSK, 3 buildings.	MRR description substantially correct.	4
			6	40° 12' 53° 02'			Possible communications installation, N of KRASNOVODSK- 3 possible towers, 3 buildings, power line.		
			33	40° 52°			Probable communications station, 2 towers, 1 quonset.		

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[redacted]	[redacted]	[redacted]	33	40° 52°	[redacted]	[redacted]	Possible communications station, 8 buildings.		
[redacted]	[redacted]	[redacted]	4	46°21' 43°55'	None		2 tall U/I towers, BOGORODSKOYE.	Probably not electronics.	4
[redacted]	[redacted]	[redacted]	20	41° 44°		JB 26-58 [redacted]	TBILISI- 3 probable elec- tronics centers.		
[redacted]	[redacted]	[redacted]	4	41°43' 44°48'			TBILISI- 2 probable communi- cations installations with pole-type antennas.		
[redacted]	[redacted]	[redacted]	24	41° 44°		Currently being covered in ARMY DPIR.	Communications station- 6 towers, 1 building.		
[redacted]	[redacted]	[redacted]	24	41°31' 45°08'		IPIR 259-X (NAVY) JP DPIR in progress.	Communications center with buildings and numerous stick masts.		
[redacted]	[redacted]	[redacted]		41°31' 45°07'			Communications center.		
[redacted]	[redacted]	[redacted]	30	41° 45°			Large fenced communications center-pole antennas- SE of RUSTAVE.		
[redacted]	[redacted]	[redacted]	6	41°21' 45°06'		[redacted]	Probable KRUG electronics site.		
[redacted]	[redacted]	[redacted]	31	41° 45°		[redacted]	KRUG DF 4 miles S of RUSTAVI, communications center.		
[redacted]	[redacted]	[redacted]	27	40° 44°		[redacted]	Communications center, 12 buildings, 2 antennas, double fence, YEREVAN- radio station; YEREVAN- communications center, 1 tower.		

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			6	40° 09' 44° 30'			YEREVAN communications installation center.		
			2	40° 28' 19° 54'		None	KUCOVE Complex with 1 radio station, 2 lattice towers.	MRR description substantially correct.	3
			4	40° 46' 19° 53'			Radio station.		
			3	40° 37' 20° 46'		None	KORCE Complex with radio station.	1 building on hilltop with tower on roof. Possible radar on nearby hill-1 building, 1 circular pad with object in center.	3
			4	40° 46' 19° 53'		None	Radio station.	MRR description substantially correct.	3
			2	40° 28' 19° 54'			KUCOVE Complex with 1 radio station, 2 lattice towers.		
			1	57° 56' 162° 01'		JB 1-57	Possible communications station with 4 small masts; resembles ADCOCK DF.		
			2	57° 55' 162° 02'			Guided missile instrumentation installation.		
			2	57° 162°			Possible communications installation, fence, 3 pole antennas, 20 buildings.		
			3	57° 162°		None	Probable radio station, 3 masts.	Area on small peninsula with several 4 buildings-probably part of fishing village nearby. No visible electronics.	

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MISSION	PRINTS	MRR	PAGE	COORDINATES	WAC	OTHER REPORTS	MRR DESCRIPTION	INTERPRETATION	EVALUATION
			2	57° 10' 161° 27'		SPIR 12-L (NAVY)	Possible missile instrumentation site.		
			2	56° 42' 161° 27'		HTA JR 4-58	Missile instrumentation site.		
			3	57° 13' 162° 45'		None	Electronics installation.	Probable radar site on coast, 4 buildings with possible radar, path leads to another possible radar. Adjacent area has 4 buildings, path leading to possible radar.	3
			2	57° 16' 162° 45'		None	Electronics installation.	Probable radar site, 10-15 buildings, and 2 possible radars.	3
			15	48° 56' 140° 22'		None	Electronics installation, (possibly TOKEN) a top MYS GORA KEKURNAYA; probably used for GCI and EW; appears to be permanent installation with 5 buildings and adjacent facilities.	MRR description substantially correct. Also 1 stick mast.	3
			15	49° 00' 140° 24'		None	SOVETSKAYA GAVAN light house and probable radar on MYS KRASNYY PARTIZAN.	Possible radar- 1 tower, 3 buildings. Possible lighthouse.	4
			15	49° 03' 140° 18'		[redacted]	Electronics installation at SOVETSKAYA GAVAN; two 8-pole Adcock DF stations, 1 larger in diameter, located 2 miles NE of SOVETSKAYA GAVAN/VANINO A/F.		
			15	50° 34' 137° 10'		Entire area currently being covered in joint electronics re-	Searchlight or radar position.		

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[redacted]	[redacted]	[redacted]	5	50°34' 137°04'		JP 7-59	KONSOMOLSK E A/F with possible radio station.		
[redacted]	[redacted]	[redacted]	15	50°35' 137°01'		JP 7-59 [redacted]	Tower in forested area N of BOL'SHAYA SILINSKAYA River.		
[redacted]	[redacted]	[redacted]	15	50°34' 137°02'		JP 7-59 [redacted]	One large lattice-type tower with spherical-shaped object at top.		
[redacted]	[redacted]	[redacted]	15	50°32' 137°04'		JP 7-59	Searchlight positions and probable radar installation adjacent to each other.		
[redacted]	[redacted]	[redacted]	15	50°39' 136°56'		JP 7-59	4 separate antenna farms.		
[redacted]	[redacted]	[redacted]	5	50°40' 136°53'		JP 7-59	Electronics installation with 4 separate antenna systems with fence; 1 with 3 lattice and 17 stick masts; 1 with 13 lattice towers; 1 with 14 lattice towers; 1 with 2 lattice towers.		
[redacted]	[redacted]	[redacted]	16	50°36' 136°56'		JP 7-59	Possible electronics site on top of hill.		
[redacted]	[redacted]	[redacted]	16	50°28' 136°54'		JP 7-59	Probable radio communications station in fenced area with small antenna farm of at least 20 pole-type masts.		
[redacted]	[redacted]	[redacted]	13	51°06' 133°00'	203	None	CHAGDAMYA-possible electronics installation; possible DF site similar to KRUG or ADCOCK.	KRUG doubtful-no evidence of antennas. Extensive trackage in snow, 1 building in woods with radial paths leading from it. (200 NM W of SVOBODNY, USSR.)	2
[redacted]	[redacted]	[redacted]	14	50°38' 128°45'		None	Single lattice-type radio tower 1 mile SE of OZERYANE.	Unable to locate this tower or any significant electronics on these prints.	4

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			14	51°27' 128°08'		None	Possible electronics installation in square fenced area; 3 antennas and 1 centrally located building, several small buildings, adjacent to scar area and RR.	SVOBODNY. MRR description substantially correct. 4 possible stick masts.	4
			14	51°20' 128°00'		SPIR 27-58 (ARMY)	Communications center in secure area 5 miles SW of SVOBODNY-tall lattice mast, numerous small stick masts (20), transmitter building, several small buildings, probable cooling pond under construction.		
			14	50°54' 128°28'		SPIR 27-58 (ARMY)	KUYBYSHEVKA-VOSTOCHNAYA Radio Station- secured area with tall lattice mast, transmitter building, small buildings, 2 cooling ponds.		
			14	49°26' 130°05'		SPIR 27-58 (ARMY)	Communications center in secure area; 2 tall stick masts, several shorter masts, transmitter building.		
			14	49°07' 131°08'		Will probably be covered in forthcoming ARMY DPIR.	Possible radio station in double fenced area with 2 buildings and 2 small masts.	Possibly explosives storage.	4
			14	48°44' 132°47'		[redacted] DPIR 17-D (NAVY)	Radio station in secured area 3 NM SW VIROBIDZHAN- 2 tall lattice masts, transmitter building.		
			16	49°21' 135°22'		NAVY Sum PI 424-X	Unusual target-type configuration in form of cross with arms -400' x 45°.		
			16	48°32' 135°12'		DPIR ELEC- TRONICS No. 7 (USAF) KHABAROVSK	Large fenced electronics area, 4 main buildings, tower or mast, numerous stick-type antennas.		

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			16	48° 35' 134° 07' (Misplot)		AF DPIR No. 7	ADCOCK DF station.	Misplot. Probably should be 48° 35' 135° 07'.	
			17	48° 34' 135° 11'		AF DPIR No. 7	Possible stick mast atop small hill 2 NM N of runway of KHABAROVSK NE A/F No. 2.		
			1	48° 29' 134° 51'		JB 5-58 (48° 28' 134° 49')	Possible SAM site under construction- installation has appearance of modified herringbone pattern, several large buildings.		
			17	48° 32' 135° 03'		AF DPIR No. 7	KHABAROVSK Radio Station with 1 large lattice tower and 2 large buildings.		
			17	48° 31' 135° 05'		AF DPIR No. 7	KHABAROVSK Radio Station, 5 tall lattice towers in line; numerous short stick masts.		
			17	48° 31' 151° 18' (Misplot)		AF DPIR No. 7 DPIR 9-D (48 30' 135 17')	KRUG DF; diameter of outer ring approximately 1000'.		
				48° 31' 135° 18'			KRUG DF 4 NM E of KHABAROVSK A/F No. 2		
				48° 30' 135° 17'			KRUG DF with 40 antennas.		
			17	48° 30' 135° 12'		AP DPIR No. 7	Communications station-irregular-shaped secured area; numerous stick antennas, vertical cylindrical object enclosed by security wall.		

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			18	48° 28' 135° 15'		AF DPIR No. 7	ADCOCK DF.		
			17	48° 29' 135° 08'		AF DPIR No. 7	KHABAROVSK Communications Station- large secured area with numerous short stick masts and buildings.		
			17	48° 28' 135° 07'		AF DPIR No. 7	KHABAROVSK Radio Station- secured area, numerous short stick masts, 10 buildings- S. of larger installation above.		
			18	48° 28' 135° 06'		AF DPIR No. 7	KHABAROVSK Radio Station-secured area with 7 tall stick masts.		
				48° 28' 135° 11'		AF DPIR No. 7	Possible communications station, 1 mile E of KHABAROVSK A/F.		
			18	48° 29' 135° 10'		AF DPIR No. 7	Possible communications station, .5 mile NNE of KHABAROVSK A/F.		
			18	48° 29' 135° 14'		AF DPIR No. 7	Communications station in irregularly shaped fenced area- numerous stick-type antennas, buildings, small walled area.		
			18	48° 28' 135° 18'		AF DPIR No. 7	Communications station with numerous buildings and fence and stick-type antennas; walled area with 2 buildings within fenced area.		
			18	48° 29' 135° 17'		AF DPIR No. 7	Communications station in fenced area with numerous stick-type antennas and buildings.		
			18	48° 28' 135° 21'		AF DPIR No. 7	Probable electronics site- secured area with 10 large and several small buildings and many probable radio masts.		
			19	48° 28' 135° 28'		AF DPIR No. 7	Large fenced antenna farm.		

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[REDACTED]			19	48° 27' 135° 22'		AF DPIR No.7	Large fenced antenna farm.			
			19	48° 27' 135° 23'		AF DPIR No.7	Large fenced antenna farm.			
			19	48° 28' 135° 19'		AF DPIR No.7	U/I walled area-possible electronics installation on S edge of CHERNEYA RECHKA.			
			19	48° 26' 135° 22'		AF DPIR No.7	KRUG DF-diameter of outer ring approximately 1000'. [REDACTED]			
			25					Electronics installation with KRUG HF/DF station with 40 antennas.		
			19	48° 25' 135° 14'		AF DPIR No.7	Communications station-numerous stick-type antennas, some in rows of 6 and 10, enclosed by single security fence.			
		19	48° 24' 135° 15'		AF DPIR No.7 Navy DPIR 9-D	KRUG DF approximately 1 NM E of KHABAROVSK/NEKRASOVKA A/F. [REDACTED]				
		26	48° 23' 135° 1?				KRUG DF with 40 antennas.			

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			2,6	42° 47' 133° 00'	291	None	U/I electronics installation on small peninsula.	Possible DF-interpretation difficult due to scale and quality.	4
			2,6	43° 12' 131° 55'	291	None	Possible electronics site on point W of RR-2 masts in square E of bunker 2 miles N of VTORAYA RECHKA.	MRR description substantially correct.	4
			2,7	43° 49' 131° 57'	291	None	Radio station with 3 buildings and 12 stick masts (VOROSHILOV)	MRR description substantially correct; also cooling pond.	3
			1,5	43° 54' 131° 55'	291	None	VOZDVIZHENKA E A/F-no longer in use, has radio station with 6 buildings and 8 stick masts on abandoned runway.	Building count is 15, also 4 ponds.	3
			2,9	44° 37' 132° 54'	282	DPIR 19-57 (15 KTS) (Radar)	4 U/I installations off either end of runway with 1 building each, joined by cable scars-SPASSK-DAL-NIY E A/F.		
			2,6	42° 58' 131° 30'	291	None	Possible U/I electronics at N end of small island OSTROV KROLICHY. (There is also a lighthouse.)	2 buildings and lighthouse.	4
			2,6	43° 18' 131° 50'	291	None	U/I electronics installation located in center of walled circular area and connected with similar installation 600' W- E DEVYATYY VAL.	No electronics visible.	4
			1,5	43° 55' 131° 56'	291	None	Radio station with 6 stick masts and 11 buildings, 1 mile WNW of N end of VOZ-DVIZHENKA A/F.	6 masts and 1 building.	4

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[redacted]	[redacted]	[redacted]	2,7	44°02' 132°04'	282	DPIR 2-57 (15 RTS)	V-beam radar (CPS-6) 6,000' ENE of center of OSINOVKA A/F with tower, 3 buildings still under construction.	[redacted]	25X1
[redacted]	[redacted]	[redacted]	2,7	44°26' 132°06'	291	DPIR 28-57	U/I probable electronics site 4,000' WNW of center of runway, KHOROL E A/F.		
[redacted]	[redacted]	[redacted]	2,10	44°02' 132°04'	282	DPIR 2-57 (15 RTS)	V-beam radar (CPS-6) 6,000' ENE of center of OSINOVKA A/F with tower, 3 buildings still under construction.	[redacted]	25X1
[redacted]	[redacted]	[redacted]	1,4	47°09' 142°45'	281	ARMY SPIR to be pub- lished.	Possible electronics site under construction 2,500' E of new runway, DOLINSK A/F.	Instrument landing system [redacted]	4 25X1
[redacted]	[redacted]	[redacted]	2,6	48°28' 135°17'	204	AF DPIR Electronics #7.(Talent System)	Probable radio station 8.5 miles E of Khaborovsk with 8 masts and 10 small buildings.	[redacted]	25X1
[redacted]	[redacted]	[redacted]	2,5	51°51' 142°46'	205	Covered in forthcoming ARMY SPIR	Probable radio station with 1 building, 3 lattice masts, 3 U/I structures, and several possible stick masts-fenced.		
[redacted]	[redacted]	[redacted]	2,6	47°10' 142°46'	282	ARMY SPIR to be pub- lished.	Probable electronics site 2,600' E of runway-DOLINSK S A/F.	Instrument landing system. (See [redacted])	25X1
[redacted]	[redacted]	[redacted]	3,7	43°04' 131°56'	291	None	Probable electronics instal- lation adjacent to major torpedo boat base, with 2 probable low frequency masts.	MRR description substantially correct.	4
[redacted]	[redacted]	[redacted]	2,6	44°34' 132°49'	291	DPIR 18-57 (15 RTS)	Probable TOKEN site on small hill 1,600' SW of main parking ramp of SPASSK-DAL-NIY A/F.		

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			1,4	44°30' 134°03'	282	DPIR RT-7-25-6 (FEAF, 548 RTS)	KOKSHAROVKA A/F with electronics site 5,000' ESE of S end of runway, on top of small hill with 5 dug-in revetments at base, 5 near top of hill. Electronics site situated at apex of hill.		
			1,1	62°24'20" 179°07'00"	120	None	Radio, possible weather station, KENUIT, 3 masts, 5 buildings, several small huts.		4
			1,1	64°16'50" 173°16'10"	75	None	Probable search radar located S of PROVIDENIYA/URELEK A/F on coast, probable large rectangular antenna, 1 large and several small buildings.	Unable to locate this installation on these prints.	4
			1,1	71°23'30" 135°16'00"	68	None	KUOYUSTAKH Radio Station (NE edge) with 2 tall masts, 3 shorter masts, 2 small buildings.	3 tall masts, 1 short mast visible, 2 buildings, fenced area.	4
			1,2	71°37'45" 128°51'30"	68	DPIR 58-S/064(BRTS)	Walled area S edge of TIKSI with large U/I tower, 6 large and several small buildings.		
			1,3	71°37'45" 128°51'45"	68	DPIR 58-S/064(BRTS)	Possible weather station 3.5 miles SSE of TIKSI on shore of ZALIV SOVO-12 buildings, small building containing possible weather instruments, 2 small round-topped tanks, and several masts.		
			1,1	71°37'45" 128°51'30"	68	DPIR 58-S/064(BRTS)	Radio station SE edge of TIKSI with tall masts and 2 buildings.		
			1,1	70°59'20" 178°18'00"	65	DPIR SP-38-57 SAC (544 RTS)	WRANGEL ISLAND Radio Station, no change since 1952 report.	[redacted]	25X1

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[redacted]	[redacted]	[redacted]	1,2	68° 46' 40" 161° 21' 00"	66	DPIR A-45 (S)	Town on E bank of Kolyma River 2 miles N of NISHNIYE KRESTY with large radio station NE of town, 4 large and several small masts, 2 large buildings.		
[redacted]	[redacted]	[redacted]	1,3	73° 40' 00" 109° 45' 20"	13	DPIR 38 (AF)	Radio range station and electronics site at MYS KOSISTYY A/F.		
[redacted]	[redacted]	[redacted]	1,2	76° 14' 45" 98° 54' 20"	13	None	Electronics site with 2 buildings, 1 possible cut parabolic antenna, 2 possible parabolic antennas, 2-stick antennas, 1 short tower, 1 tall probable lattice tower.	Area snow-covered. MRR description possibly correct. Detailed interpretation difficult to impossible.	3
[redacted]	[redacted]	[redacted]	1,2	76° 11' 30" 98° 34' 20"	13	None	Electronics site with 4 buildings, 1 with probable YAGI antenna on roof.	MRR description substantially correct.	4
[redacted]	[redacted]	[redacted]	1,2	76° 12' 20" 99° 05' 20"	13	DPIR 58-S-006 (SAC BRYS)	Electronics site adjacent to UST TAJMYR A/F ("A/F probably constructed to support electronics site") with KRUG HF/DF station, 3 possible radars (parabolic, cut parabolic, and YAGI), 4 short and 4 tall stick antennas, 4 buildings.		
[redacted]	[redacted]	[redacted]	1,2	77° 12' 104° 55'	13	AF DPIR 47	Possible electronics site located on tip of land 2,600' W of NE end of runway. Large lattice tower and power lines visible approximately 4,600' E of NE end of runway.		
[redacted]	[redacted]	[redacted]	1,3	69° 54' 176° 20'	65	DPIR SP-62-58 (544 RTS)	Radio station with 4 masts at E end of MYS BILLINGSA.		

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			1,2	70° 58' 30" 178° 29' 00"	65	DPIR SP-38-57 2 (possibly 3) radio masts at SAC (544 RTS) Rogers Bay.			
			1,2	70° 59' 20" 178° 18' 00"	65	DPIR SP-38-57 WRANGEL Island possible radar SAC (544 RTS) site with 3 buildings, 2 very short possible radar towers NE of building and 3 S of building. Also 2 much smaller S of building.			
			1,2	68° 53' 179° 24'	65	SPIR 2-1 (2 May 55) HQ SAC	MYS SHMIDTA A/F with TOKEN radar and radar in lighthouse area.		
			1,2	67° 50' 175° 52'	75	MRIR-2 HQ SAC	MYS VANKAREN village with electronics or radio installation within village.		
			1,2	70° 39' 162° 23'	66	DPIR S/58/041 (8 RTS)	CHETYREKHSTOLBOVY marine radio beacon, with 2 probable radio masts at E end of island- 1 tower (possible radio or lighthouse) at W end of island- various scattered buildings.		
			2,4	64° 43' 177° 44'	75	SPIR 1-5(SAC) DPIR RT55(SAC) (2 radio stations and several unusual U/I objects)			
			1,3	69° 52' 170° 51'	65	None	Numerous U/I tower-like structures, possibly resembling oil derricks, scattered along crest and spurs of ridge, similar to towers in PEVEK Complex (MRIR-TW-8)	Not electronics.	5
			1,3	65° 30' 173° 15'	74	None	Possible radio or RDF on rise 500' W of UST BELSKOYE.	Not electronics.	4

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			1,2	68°45' 161°20'	66	DPIR A-45 (S) DPIR RT55 (S)	Radio station with 7 very tall masts and 3 buildings 1,600'N of NIZHNE KRESTY.	See MSN Sortie 6, prints [redacted]	25X1
			1,2	73°14' 56°43'	44	None	Polar station with 11 buildings, 1 shadow indicating possible electronics site.	MRR description substantially correct.	4
			2,5	71°34'10" 52°20'00"	50	DPIR Target Complex #27 (AF). (Unable to separate individual items.)	Electronics site with 3 tower antennas and 2 buildings- 1 mile N of BWLUSHYA-GUBA.		
			2,4	71°33'40" 52°15'00"	50	See Above	Electronics site with 1 tower antenna and 2 buildings.		
			2,4	71°33' 52°23'	50	See Above	Radar-controlled AA with 1 lattice tower adjacent, 1 mile ESE of BELUSHYA-GUBA.		
			2,4	71°28'50" 52°12'00"	50	See Above	Probable electronics site with 1 mast antenna and 2 buildings.		
			1,3, 4	71°28'20" 52°14'00"	50	See Above	Probable polar station with 7 buildings, 4 small huts with short masts, 7 U/I objects.		
			2,4	71°27'30" 52°15'00"	50	See Above	Electronics site with 1 tower antenna and 1 building.		
			1,3	70°46'30" 54°22'00"	50	None	Polar station with 7 buildings, 1 lattice tower, and 8 stick masts, 4 NM NW of seaplane station.	MRR description substantially correct.	3
			1,3	70°45'30" 54°31'00"	50	None	Electronics site with 1 tower, .5 mile NE of seaplane station.	MRR description substantially correct.	4

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MISSION	PRINTS	MRR	PAGE	COORDINATES	WAC	OTHER REPORTS	MRR DESCRIPTION	INTERPRETATION	EVALUATION
			1,3	70° 43' 40" 54° 32' 00"	50	None	1 lattice-type antenna, 2 U/I radars, 2 miles SE KRASION A/F.	MRR description substantially correct.	2
			1,3	70° 42' 30" 54° 37' 00"	50	None	Electronics site with 1 tower mast and small building 1 mile SE KRASION A/F.	MRR description substantially correct.	4
			1,3	70° 40' 54° 39'	50	None	Electronics site with 3 mast antennas and 1 tower antenna.	MRR description substantially correct. Also 4 parked cargo-type aircraft.	4
			1,3	70° 39' 30" 54° 46' 00"	50	None	Electronics site with 2 lattice-type antennas.	MRR description substantially correct.	4
			1,3	70° 38' 30" 54° 45' 00"	50	None	Electronics site with 3 buildings, 2 lattice-type antennas.	Same installation as that immediately above.	4
			1,3	81° 48' 58° 00'	11	None	OSTROV RUDOLF Polar station with 11 buildings, 2 possible radars, 1 elevated tower-like structure, 3 tall stick masts, 32 stick masts in circle.	[redacted]	25X1
			1,3	81° 18' 30" 60° 30' 00"	11	SAC SP-3-57 (544 RITS) DPIR No. 33 A/F	Electronics site (GOFFMANA Polar Station) with 4 buildings, 1 probable radar installation, possibly GAGE-type and 1 tall stick mast.	[redacted]	25X1
			1,3	80° 46' 46° 50'	11	DPIR 37(AF)	Electronics site with 1 large lattice tower SSW of NAGURSKAYA Polar Station.	[redacted]	25X1
			2,3	80° 47' 30" 47° 00' 00"	11	DPIR 37 (AF)	Electronics site with 2 tower-type antennas 1.7 miles NE of NAGURSKAYA Polar Station.	[redacted]	25X1

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<u>MISSION</u>	<u>PRINTS</u>	<u>MRR</u>	<u>PAGE</u>	<u>COORDINATES</u>	<u>WAC</u>	<u>OTHER REPORTS</u>	<u>MRR DESCRIPTION</u>	<u>INTERPRETATION</u>	<u>EVALUATION</u>
[redacted]	[redacted]	[redacted]	1,3	81°18'30" 60°30'00"	11	SAC SP-3-57 (544 RTS) DPIR No. 33 A/F	Electronics site (GOFFMANA Polar station) with 4 buildings, 1 probable radar installation, possible GAGE-type, and 1 tall stick mast.	[redacted]	25X1
[redacted]	[redacted]	[redacted]	1,3	81°17' 60°20'	11	SAC SP-3-57 (544 RTS)	GORRMANA A/F with lattice tower and stick mast NNE of NW end of runway.		
[redacted]	[redacted]	[redacted]	1		11	None	Electronics site and/or polar station		
[redacted]	[redacted]	[redacted]	1,2	80°46' 46°50'	11	DPIR 37 (AF)	Electronics site with 1 large lattice tower SSW of NAGURSKAYA Polar Station.	[redacted]	25X1
[redacted]	[redacted]	[redacted]	1,2	80°47'30" 47°00'00"	11	DPIR 37 (AF)	Electronics site with 2 tower-type antennas 1.7 miles NE of NAGURSKAYA Polar Station.	[redacted]	25X1
[redacted]	[redacted]	[redacted]	1,2	80°46' 46°55'	11	DPIR 37 (AF)	Electronics site with 1 lattice tower antenna E of NAGURSKAYA Polar Station.		
[redacted]	[redacted]	[redacted]	1,2	80°35' 46°00'	11	None	SEMLYA ALEXANDRA U/I installation with possible radio tower.	1 short tower on snow-covered plain with no trackage or other facilities visible.	4
[redacted]	[redacted]	[redacted]	1,2	80°25' 46°30'	11	None	ZEMLYA GEORGE U/I installation with possible radio tower and 1 building.	MRR description substantially correct, no other facilities visible.	4
[redacted]	[redacted]	[redacted]	1		11	None	Electronics site.		

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<u>MISSION</u>	<u>PRINTS</u>	<u>MRR</u>	<u>PAGE</u>	<u>COORDINATES</u>	<u>WAC</u>	<u>OTHER REPORTS</u>	<u>MRR DESCRIPTION</u>	<u>INTERPRETATION</u>	<u>EVALUATION</u>
			1,2	72°03' 102°32'	47	DPIR #40(A/F) DPIR 58-S/046 (SAC & RTS)	Electronics installation with 3 buildings, 13 stick masts-3.7 miles NE KHATANGA.		
			1,2	72°02' 102°35'	47	DPIR #40(A/F)	Electronics installation with 3 buildings, 2 stick masts-3.5 miles NE KHATANGA.		
			1,3	72°01' 102°32'	47	None	U/I installation, possible electronics site 1.3 miles N of KHATANGA A/F.	2 small buildings and possible radar-probably associated with A/F as ILS installation.	4
			1,2	71°54' 102°03'	47	None	Electronics installation with 1 large lattice tower.	MRR description substantially correct.	4
			1,2	71°57' 102°18'	47	None	Electronics installation with 1 building and 1 large lattice tower.	MRR description substantially correct.	4
			1,2	76°35'10" 97°38'00"	13	None	Probable polar station with 4 buildings and 3 U/I objects.	No visible electronics.	4
			1,2	79°31'15" 91°05'00"	12	None	MYS VKHODNOY Polar Station- 9 buildings, 12 U/I objects; 1 U/I object .5 mile W; 1 U/I object .8 mile NNE; 6 U/I objects just S.	No visible electronics	4
			1,3	59°26'40" 87°58'30"	48	None	Probable electronics site with 1 medium lattice tower; no buildings.	MRR description substantially correct.	3
			1,2	69°20' 88°05'	48	DPIR #23 Target complex USAF (long-range radio station)	NORIL'SK with steel towers from 125' - 150' high	See TW 17 for additional coverage.	

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			1,3	67° 38' 72° 50'	94	DPIR-48(A/F) (Probable marker beacon)	Possible electronics site, 1 possible radar device .6 mile north of north end of MYS KAMENNY A/F runway.		
			2,3	67° 41' 72° 55'	94	DPIR-26(A/F)	Electronics site with 2 lattice (Navigational radio towers 800' apart, northeast range lights.) of NOVYY.		
			2,3	67° 38' 72° 50'	94	DPIR-26(A/F) (Possible radio range station.)	Possible electronics site with lattice tower. (WAC 94 lists a marine light here.)		
			1,2	76° 52' 68° 30'	14	DPIR-S/278 (SAC)	MYS ZHELANIYA electronics site; 4 tall stick masts with building in center of runway; 3 stick masts and 1 lattice tower northeast of east end of runway.		
			1,2	77° 18' 89° 35'	13	PIB SB-6-57 (HTA)	Electronics site north tip of ISACHENKO Island, 1 large lattice tower.		
			1,2	77° 11' 89° 15'	13	PIB SB-6-57 (HTA)	Probable polar station ISACHENKO Island; 6 buildings; 4 stick masts with control building; 6 U/I objects.		
			1,2	77° 11' 89° 18'	13	PIB SB-6-57 (HTA)	Electronics site ISACHENKO Island 1 mile southeast of polar station (lighthouse?)		
			1,3	70° 40' 147° 58'	67	DPIR-36(A/F)	CHOKURDAKH electronics site with numerous stick masts and probable radar installation south of CHOKURDAKH A/F.		

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<u>MISSION</u>	<u>PRINTS</u>	<u>MRR</u>	<u>PAGE</u>	<u>COORDINATES</u>	<u>WAC</u>	<u>OTHER REPORTS</u>	<u>MRR DESCRIPTION</u>	<u>INTERPRETATION</u>	<u>EVALUATION</u>
			1,3	66°10' 150°36'	73	None	Electronics site with 19 buildings, 2 stick masts, 2 lattice towers.	No evidence of masts or towers.	4
			2,4	65°44' 149°47'	73	None	Electronics site with 1 building, 1 medium lattice tower, 1 unidentified object.	Probable oil derrick or similar structure.	4
			2,5	37°53' 58°24'	338	DPIR-8 (USAF) Target Complex ASKHABAD Radio Station.	3 radio towers west of ASKHABAD SW A/F; tallest is guyed vertical tower 450'; 2 others are self-established and 200'.		
			3	42°05' 19°31'	322	None	Radio Station (Reference report #2732.)	No evidence of facilities.	4
			1,5	46°54' 19°45'	251	SPIR-N-53-005 DPIR-58-1 (2RTS) DPIR-SF-7 (SAC)	KECSKMET A/F, U/I electronics site 6,400' NW with 7 masts arranged in "L" pattern and 1 shack; cable scar to A/F.		
			2,16	45°48' 21°19'	251	DPIR-58-16 (2RTS) DPIR-SPT-77-58 (SAC)	TOKEN 2,600' southwest TIMISOARA NE A/F.		
			1,6	46°22'53" 17°54'41"	252	DPIR 58-42 (2RTS)	TASZAR A/F with TOKEN Radar W of main taxiway and probable KNIFE-CREST Radar to E connected by cable scar.		
			3,7,8	57°00'46" 24°08'45"	153	None	RIGA probable aircraft navigation aid NNE side of RIGA tower with octagonal form of cross on top.	MRR substantially correct.	3

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			1,3	69°15' 88°01'	48	None	Probable electronics site with 2 lattice towers 1 mile apart.		
			1,2	73°31' 80°44'	46	None	DIKSON radio range with 4 towers 690' apart, 5 miles from end of DIKSON runway.		
			1,2	73°29' 80°30'	46	None	DIKSON, with numerous towers, masts and transmission lines.		
			2,3	75°42' 91°43'	46	None	Probable polar station with 7 buildings and 2 U/I objects.		
			1,2	76°12' 98°33'	13	None	Probable polar station with 2 buildings and 1 U/I object.		
			1,2	76°12' 138°55'	26	None	Possible radar or electronics installation.		
			2,4	79°28' 76°29'	14	None	OSTROV Polar Station; 11 buildings with 7 stick masts.		
			1,2	79°34' 90°30'	13	None	Polar station; 6 buildings.		
			1,3	81°48' 58°00'	11	None	OSTROV RUDOLF Polar Station with 11 buildings.	Possible DF-type installation. TW 13 on order for better coverage.	
			1,3	81°48' 58°00'	11	None	OSTROV RUDOLF Polar Station, 2 possible radars, 1 elevated tower-like structure, 3 tall stick masts in circular pattern.		
				38°02' 24°25'			Probable electronics installation.		

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IPIR 21-57  
(ARMY)  
SPIR 59-57

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