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(See inside cover)



NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER

# Summary Report

## SIMILARITY BETWEEN ELECTRONICS FACILITIES AT LOURDES, CUBA, AND VICAK, USSR (TSR)



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**DISSEMINATION CONTROL ABBREVIATIONS**

NOFORN-	Not Releasable to Foreign Nationals
NOCONTRACT-	Not Releasable to Contractors or Contractor/Consultants
PROPIN-	Caution-Proprietary Information Involved
USIBONLY-	USIB Departments Only
ORCON-	Dissemination and Extraction of Information Controlled by Originator
REL ...	This Information has been Authorized for Release to ...

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**SIMILARITY BETWEEN ELECTRONICS FACILITIES AT LOURDES, CUBA, AND VICAK, USSR (TSR)**

(TSR) Continuing analysis of the Space-Associated Electronics Facility at Lourdes Military Headquarters Torrens, Cuba [redacted], revealed a similarity between that facility and the operations area at Vicak Space Tracking Facility, USSR [redacted]

(TSR) [redacted] a new 7-meter parabolic dish antenna was first observed at the Space-Associated Electronics Facility at Lourdes [redacted], a second 7-meter parabolic dish antenna was observed at this facility. Each of these antennas was mounted on a separate console, each console composed of three prefabricated shelters or vans. Two 5-meter parabolic-dish antennas which have been at the installation [redacted] were collocated with the above equipment [redacted] (Figure 1), each of the 5-meter dish antennas was observed oriented in azimuth and elevation with one of the 7-meter dish antennas. Next to the 7-meter dishes were two additional prefabricated shelters or vans and two pod-shaped, probable antenna shipping containers. Each of the latter had a centrally located, square-shaped probable antenna mount on top. Components of most of this equipment were first imaged at Lourdes [redacted]

(TSR) Other satellite-associated electronics equipment in the Lourdes area (not depicted on the graphic) included a 12-meter Orbita-type antenna and a 7-meter MARS-type antenna at Lourdes Space Associated Electronics Facility South [redacted] and two [redacted] mobile communications satellite (comsat) antennas at Lourdes Military Camp And Vehicle Park Torrens [redacted]

(TSR) A review of Soviet comsat-related facilities revealed similar equipment at Vicak Space Tracking Facility [redacted] a 7-meter parabolic dish mounted in the same manner as those at Lourdes was first observed. In close proximity to the antenna were a pod-shaped container and a prefabricated shelter or van (Figure 2) similar to those at Lourdes. A 5-meter parabolic dish antenna and a 32-meter parabolic dish antenna (not annotated) were within the operations area. [redacted] all three of these antennas were at the same azimuth and elevation angle.

(TSR) Other satellite-associated electronics equipment at Vicak included a 12-meter comsat-type antenna and a [redacted] comsat-type antenna (not depicted on the graphic).

(S/WNINTEL) A report [redacted] stated that a Soviet site under military control near Ventspils, Latvian Soviet Socialist Republic (SSR), was responsible for intercept of US space vehicle signals including those from Skylab. The space-associated electronics facility at Vicak is 13 nautical miles north-northeast of Ventspils and is the only such facility identified in the Latvian, SSR.

(TSR) To date, no installations have been observed which either possess a similarly mounted 7-meter parabolic dish antenna or employ a 7-meter with a 5-meter parabolic dish antenna. Neither have the previously described probable antenna components been noted at any other installation.

[redacted]

\*CIA. Intelligence Information Report, FIRK-311/01124-77, *An Unidentified Radar and Radio Intercept Battalion, V/Ch 52241, near Ventspils, Aug 77* (CONFIDENTIAL/WNINTEL)

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## List of Conversion Factors by Classification

### UNITS OF LENGTH

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
MILLIMETERS	0.0394	INCHES
CENTIMETERS	0.3937	INCHES
INCHES	25.4000	MILLIMETERS
INCHES	2.5400	CENTIMETERS
FEET	0.3048	METERS
FEET	0.0003	KILOMETERS
YARDS	0.9144	METERS
METERS	3.2808	FEET
METERS	0.0005	MILES(NAUTICAL)
METERS	1.0936	YARDS
KILOMETERS	3280.8400	FEET
KILOMETERS	0.6214	MILES(STATUTE)
KILOMETERS	0.5400	MILES(NAUTICAL)
MILES(STATUTE)	1.6093	KILOMETERS
MILES(NAUTICAL)	6076.1154	FEET
MILES(NAUTICAL)	1.8520	KILOMETERS
MILES(NAUTICAL)	1852.0000	METERS

### UNITS OF MASS

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
KILOGRAMS	2.2046	POUNDS(AVOIR.)
POUNDS(AVOIR.)	0.4536	KILOGRAMS
SHORT TONS	0.9072	METRIC TONS
METRIC TONS	1.1023	SHORT TONS
METRIC TONS	0.9842	LONG TONS
LONG TONS	1.0160	METRIC TONS

### UNITS OF VOLUME

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
LITERS	0.2642	GALLONS
LITERS	0.0063	BARRELS(POL)
LITERS	0.0010	CUBIC METERS
GALLONS	3.7854	LITERS
GALLONS	0.1337	CUBIC FEET
GALLONS	0.0238	BARRELS(POL)
GALLONS	0.0038	CUBIC METERS
BUSHELS	0.0352	CUBIC METERS
CUBIC FEET	7.4805	GALLONS
CUBIC FEET	0.1781	BARRELS(POL)
CUBIC FEET	0.0283	CUBIC METERS
CUBIC YARDS	0.7646	CUBIC METERS
BARRELS(POL)	158.9873	LITERS
BARRELS(POL)	42.0000	GALLONS
BARRELS(POL)	5.6146	CUBIC FEET
BARRELS(POL)	0.1590	CUBIC METERS
CUBIC METERS	1000.0000	LITERS
CUBIC METERS	264.1721	GALLONS
CUBIC METERS	35.3147	CUBIC FEET
CUBIC METERS	28.3776	BUSHELS
CUBIC METERS	6.2898	BARRELS(POL)
CUBIC METERS	1.3080	CUBIC YARDS

### UNITS OF AREA

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
SQUARE CENTIMETERS	0.1550	SQUARE INCHES
SQUARE INCHES	6.4516	SQUARE CENTIMETERS
SQUARE FEET	0.0929	SQUARE METERS
SQUARE YARDS	0.8361	SQUARE METERS
SQUARE METERS	10.7639	SQUARE FEET
SQUARE METERS	1.1960	SQUARE YARDS
SQUARE METERS	1.0000	CENTARES
SQUARE METERS	0.0002	ACRES
SQUARE METERS	0.0001	HECTARES
ACRES	4046.8564	SQUARE METERS
ACRES	0.4047	HECTARES
HECTARES	10000.0000	SQUARE METERS
HECTARES	2.4711	ACRES

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