

PIC/JB-26/61

VITAL RECORDS COPY
COMMUNICATIONS STATION

NEAR BAUTA, CUBA

A communications station near Bauta, Cuba, first observed on photography of [REDACTED] is located at 22-57-00N 82-32-45W, 3 kilometers (1.6 nautical miles) south of Bauta and 26 kilometers (14 nautical miles) southwest of Havana (see Figure 1). The station covers an area of approximately 340 acres. At the time of the latest photography [REDACTED] security provisions included a perimeter fence under construction, five guard towers, and five light weapon positions, four of which were occupied (see Figure 2).

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The station has nine rhombic antennas (four completed and five under construction). Rhombic 3, under construction, will replace No 4. All the rhombics are the four-pole type, except No 1, which is probably a bent rhombic. Rhombics 1-5 are oriented toward Europe and 6-9 toward South America. In the west part of the station area are five stick masts: a group of three and a pair. These masts probably support horizontal antennas. No feed or dissipation lines can be identified with any of the antennas. Antenna data are given in Tables 1 and 2 (item numbers are keyed to Figure 2).

A cross-shaped control building (item a) is centrally located in the station area. It measures 190 by 150 feet and the center section is approximately 40 feet high (see Figure 3). The building is served by an all-weather road and has several adjacent parking areas. The presence of two cooling ponds, 15 feet square, near the building tends to indicate that this is a transmitting station. In addition, sections of the roof of the control building appear to be water-holding basins. A 135-foot self-supporting lattice tower, possibly for local broadcasting and/or microwave relay, borders the northwest corner of the control building.

Other buildings in the area include a security building, (item e), at the entrance, and three buildings (items b, c, and d) which appear to be associated with construction activity. Item b is 40 by 30 feet; c, 25 feet square; and d, 20 by 15 feet.

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Information on the progress of construction at the station [REDACTED] is given in Table 3.

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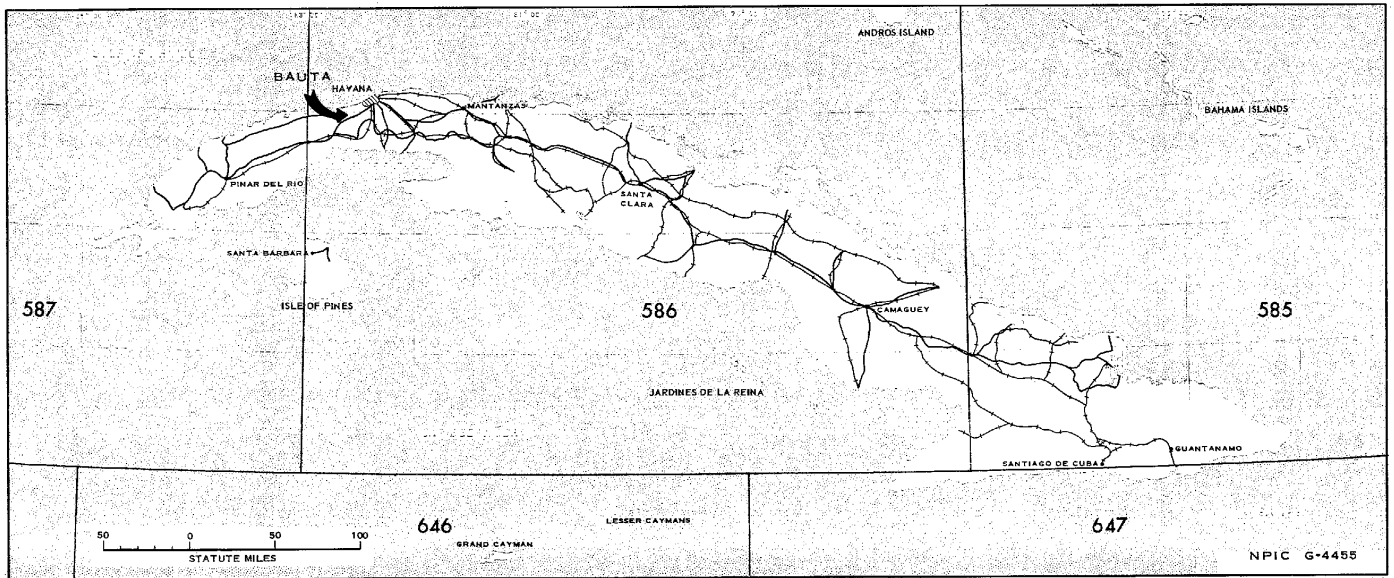


FIGURE 1. MAP SHOWING LOCATION OF COMMUNICATIONS STATION NEAR BAUTA, CUBA.

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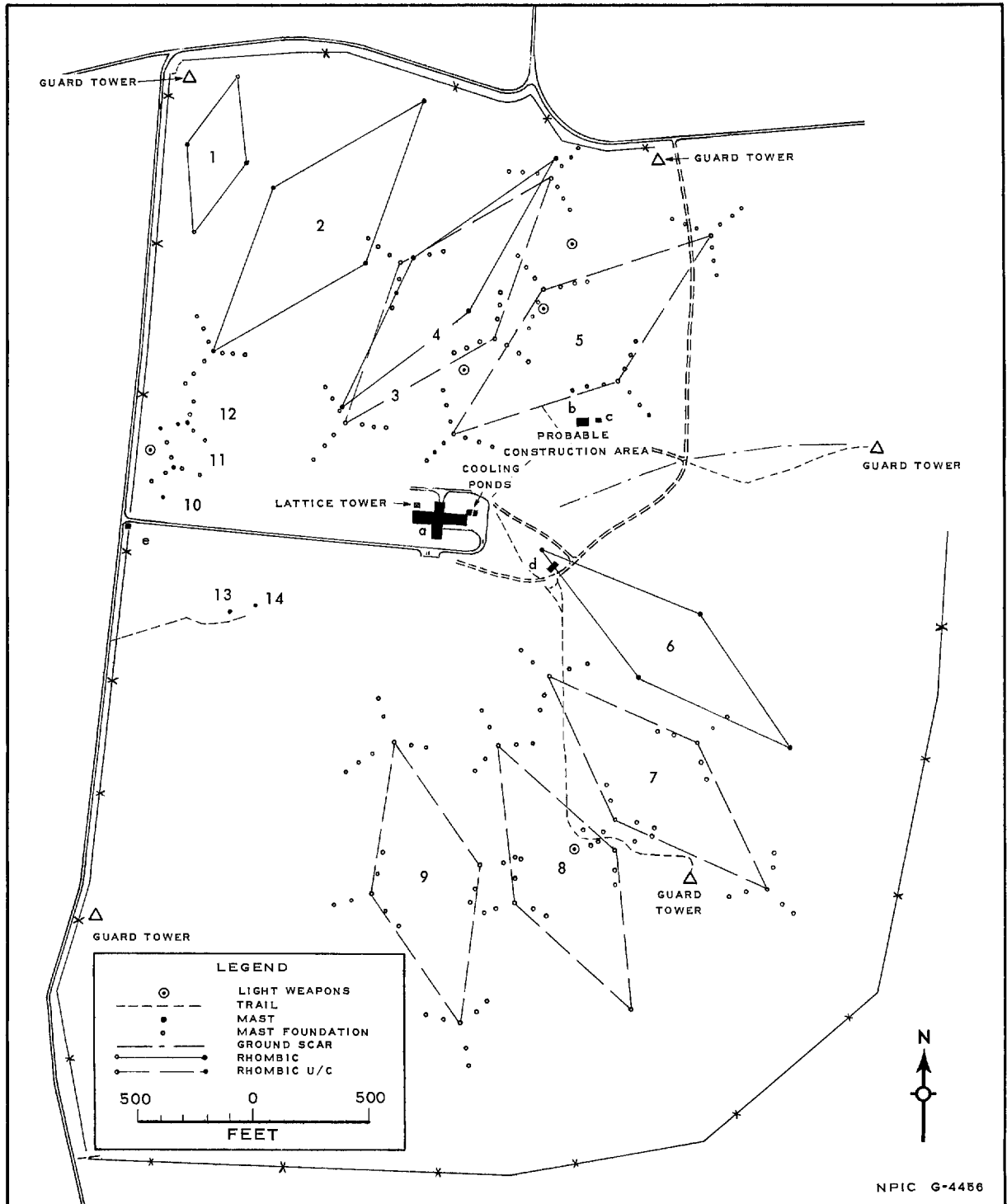


FIGURE 2. LAYOUT AND FACILITIES OF COMMUNICATIONS STATION NEAR BAUTA, CUBA.

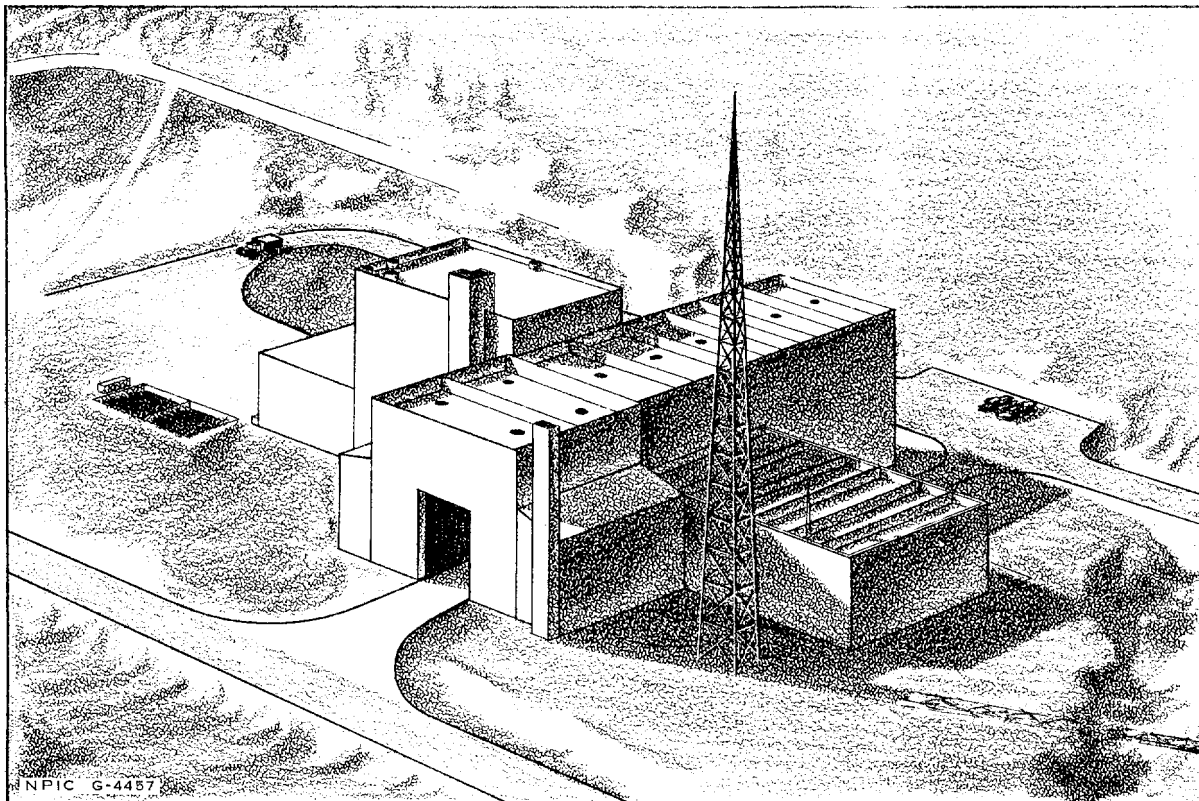


FIGURE 3. CONCEPT OF CONTROL BUILDING.

TABLE 1. DATA ON RHOMBIC ANTENNAS							
Item	Major Axis (ft)	Minor Axis (ft)	Pole Height (ft)	Computed Tilt Angle (°)	Length of One Side (ft)	No of Anchor Bases per Mast	Azimuths (°)
1	700	270	95	69-00	375	-	
2	1,370	500	160	70-00	730	9	
3(u/c)	1,370	500	-	70-00	730	9	
4	1,390	365	120 (side) 110 (end)	75-00	720	3	
5(u/c)	1,370	495	-	70-00	730	9	
6	1,385	375	120	75-00	720	3	
7(u/c)	1,275	465	-	70-00	680	6	
8(u/c)	1,275	470	-	70-00	680	6	
9(u/c)	1,275	470	-	70-00	680	6	

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TABLE 2. DATA ON STICK MASTS			
Item	Height (ft)	Distance Betw Masts (ft)	Azimuths (°)
10	50	140	110/290
11	85	200	110/290
12	85		
13	85		
14	85	120	

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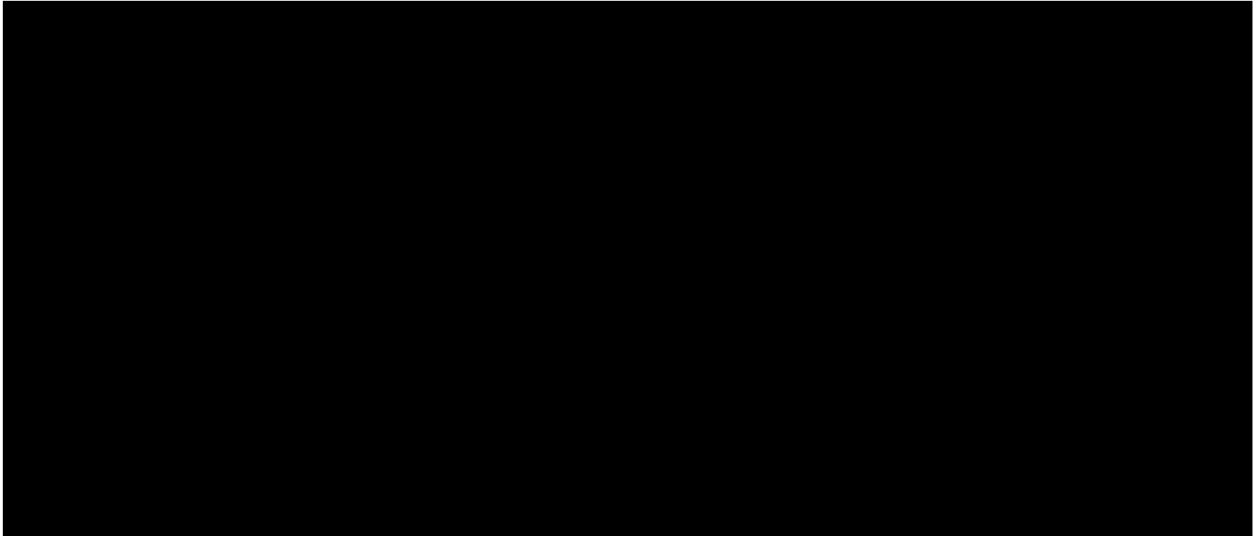
TABLE 3. CONSTRUCTION PROGRESS		
Date	Antennas	Other Features
	Rhombics 4 and 6 appear complete. Footings being emplaced for rhombic 2. Area being cleared for rhombics 5, 7, and 8.	Entrance road and parking areas u/c. Control bldg appears complete. Fence may be extended to include rhombic 5.
	Rhombics 4 and 6 appear complete. Rhombic 2 still u/c; footings not poured. Holes dug for footings for rhombic 1. No further work on rhombics 5, 7, and 8.	Entrance road and parking areas nearly complete. Two cooling ponds u/c near the control bldg. Fence still u/c.
	Rhombic 2 appears complete. Rhombics 3, 5, 7, and 8 u/c. Lattice tower and masts 10, 11, and 12 u/c. Masts 13, and 14 probably complete.	Four guard towers erected; a fifth is u/c. Entrance road and parking areas complete.
	Rhombic 1 appears complete. Rhombics 2, 4, and 6 still up. All bases in for rhombics 5, 7, and 8. Base holes dug for rhombics 3 and 9. Masts 10, 11, and 12 up.	Fence still u/c. Fifth guard tower still u/c. Cooling ponds appear complete.
	No further progress. No indication of expansion.	Fence nearing completion. Five light weapons positions emplaced; four occupied. Cooling ponds completed and filled.

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REFERENCES



MAPS

- AMS. Series E 723, Sheet 3684 I (Guanajay, Cuba), 3d ed, Oct 61, scale 1:50,000 (OUO)
- TAC. US Air Target Mosaic, Series 50, Sheet S 0586-6/6MA, 1st ed, Nov 60, scale 1:50,000 (S)

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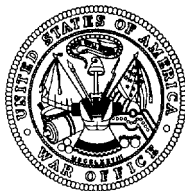
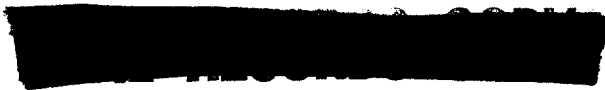
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COMMUNICATIONS STATION NEAR BAUTA, CUBA



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NAVY



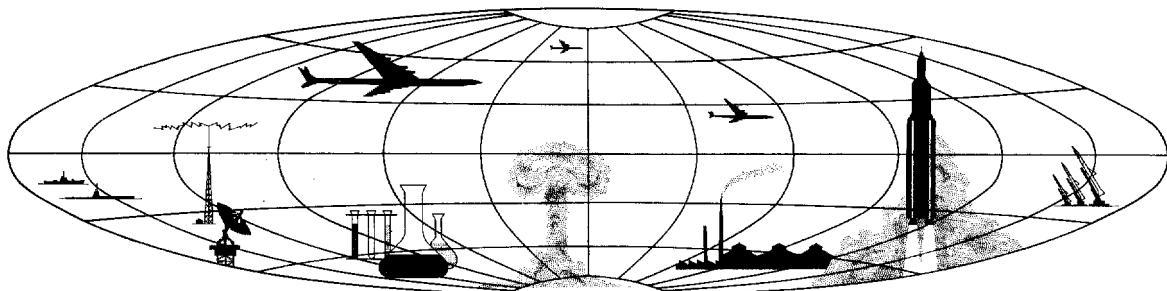
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