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May 1964

PHOTOGRAPHIC INTERPRETATION REPORT

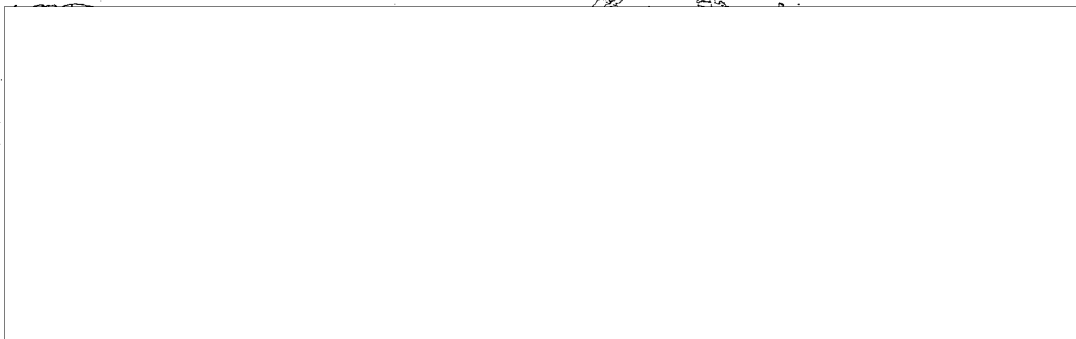
**FISHBONE HIGH-FREQUENCY
COMMUNICATIONS RECEIVING ANTENNA,
KURGANCHA MRBM LAUNCH AREA NO 2,
USSR**



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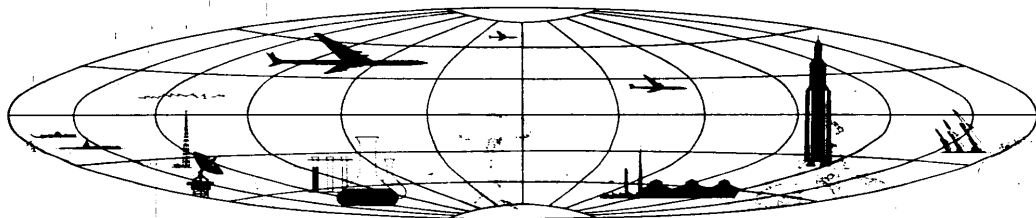


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FISHBONE HIGH-FREQUENCY COMMUNICATIONS RECEIVING ANTENNA, KURGANCHA MRBM LAUNCH AREA NO 2, USSR

INTRODUCTION

This report has been prepared in response to a requirement asked for reexamination of a fishbone high-frequency communications receiving antenna observed on Mission 4006, [redacted] at Kurgancha MRBM Launch Area No 2, which is located 3.3 nautical miles (nm)

south-southwest of Kurgancha (Figure 1).

This requirement also requested information on any other communications facilities serving this MRBM complex, but none were located due to the obliquity and poor quality of the photography.

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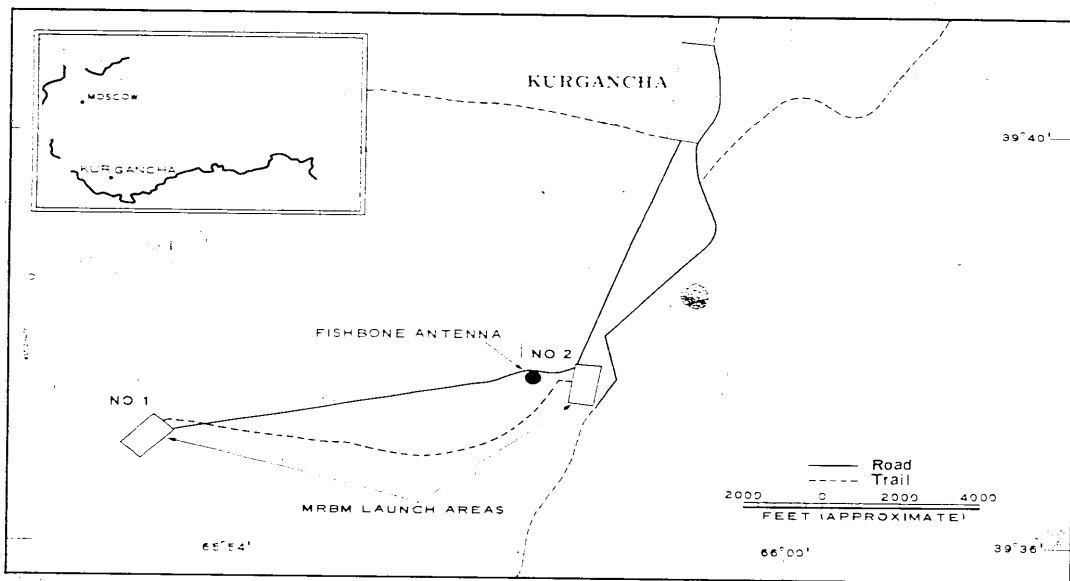


FIGURE 1. LOCATION OF FISHBONE ANTENNA.

DESCRIPTION

Location: Approximately 0.1 nm west of Kurgancha MRBM Launch Area No 2
Coordinates: 39-37N 65-57E

The fishbone antenna has been constructed since September 1963 and is located within a large irregular-shaped secured area measur-

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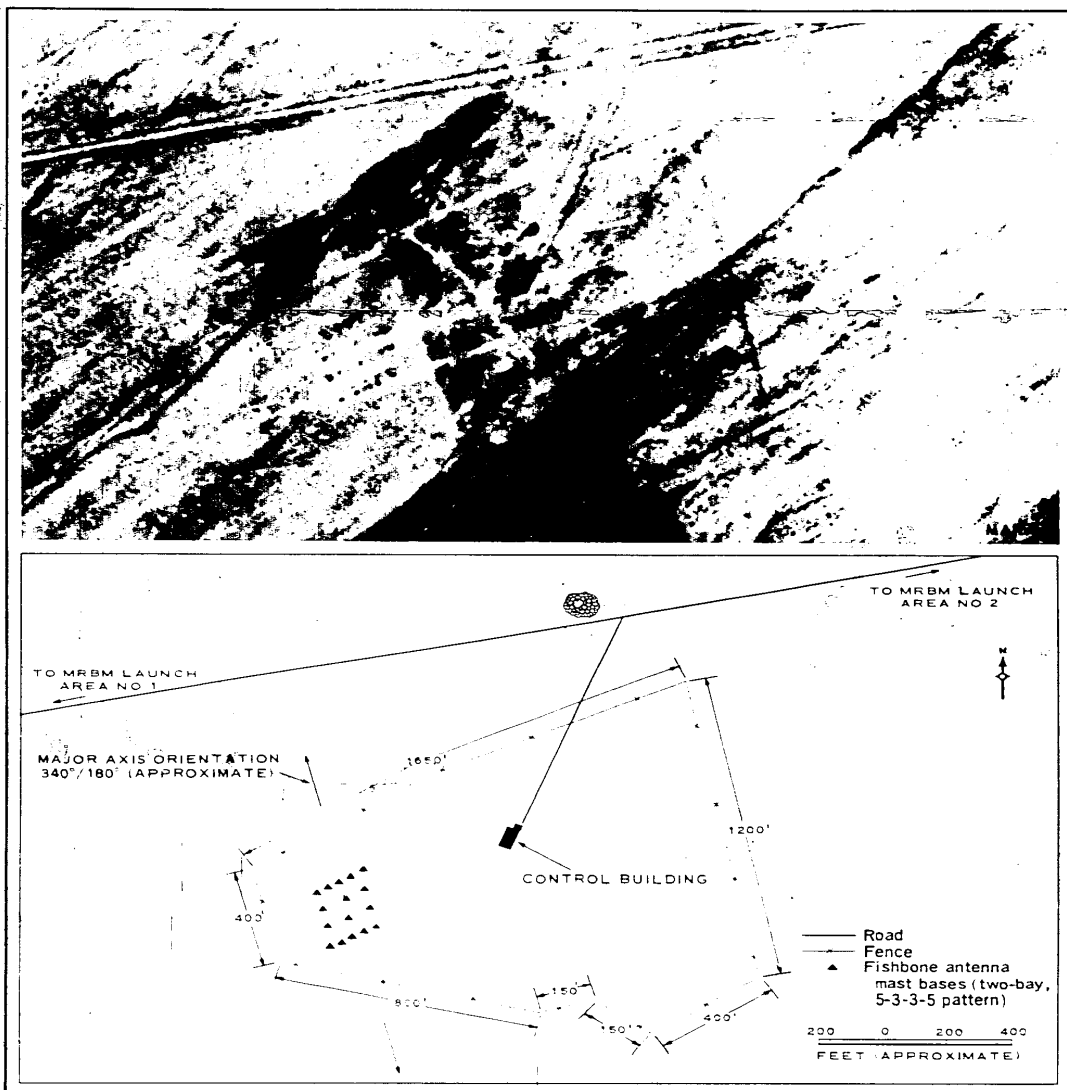


FIGURE 2. LAYOUT OF FISHBONE ANTENNA SITE.

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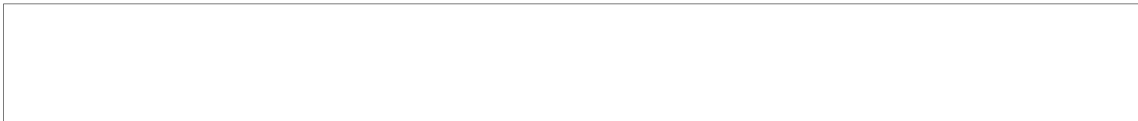
ing approximately 1,650 by 1,200 feet on its north and east sides (Figure 2). The secured area contains one control building. There are indications that the area may also contain other types of antennas, but poor-quality photography and obliquity preclude an accurate analysis of the specific types.

The fishbone antenna is arranged in a two-bay, 5-3-3-5 pattern, and covers an area 263 by 245 feet measured from guy anchor to guy anchor. The fishbone antenna is estimated to have an optimum frequency of 18 megacycles with a usable range of 13 to 22 megacycles.

The major axis orientation is directed toward Murmansk at an angle of approximately 340 degrees on the forward azimuth; the back azimuth does not appear directed toward any particular subscriber.

Correspondence along the great circle bearing with Kurgancha could possibly be associated with Irgiz, Orsk, Ufa, Perm, and Izhevsk, as well as Murmansk. This major axis orientation is subject to reasonable error due to the obliquity of the photography and to the fact that only one bearing could be obtained.

REFERENCES



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MAPS OR CHARTS

ACIC. US Air Target Chart, Series 200, Sheet 0337-5AL, 1st ed, Sep 60, scale 1:200,000 (SECRET)

ACIC. US Air Target Chart, Series 50, Sheet 0337-5 3A, 1st interim ed, May 62, scale 1:50,000 (SECRET)

ACIC. US Air Target Chart, Series 50, Sheet 0337-5 3A, 1st interim ed, May 62, scale 1:50,000 (SECRET)

REQUIREMENT



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