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## Spy Gear of Pueblo Is Highly Technical

The USS Pueblo was a seagoing spy, designed for long-range eavesdropping.

The North Koreans, and perhaps the Russians, have had time to analyze much of the Pueblo's elaborate and highly secret equipment since her capture last January.

While the Navy has not detailed what was lost, the picture above shows much of the ship's equipment for ferret missions:

(1) Those long poles are high frequency antennae for long-range communications. The Pueblo, while listening off North Korea, could keep in touch with Navy commanders in Japan and in Honolulu with this gear. Presumably, the call for help went over this equipment when the Pueblo was boarded "shortly before midnight" (EST) Jan. 22 by armed North Koreans.

(2) Some of the equipment on the rear mast appears to be direction-finding gear used to help more elaborate listening gear focus in on the signals.

(3) This Yagi array named after its inventor is the heart of the ship's eavesdropping system. The antennae are extremely sensitive and could pick up radio communications between military bases in North Korea and between planes in the air and command posts on the ground. Chances are the Pueblo through this eavesdropper was trying to assess the degree and direction of North Korean military activity. The ship was on station at a time there were frequent incidents of North Korean infiltration through the demilitarized zone. It is likely the communi-

cations picked up were recorded on tape for use of intelligence agencies ashore.

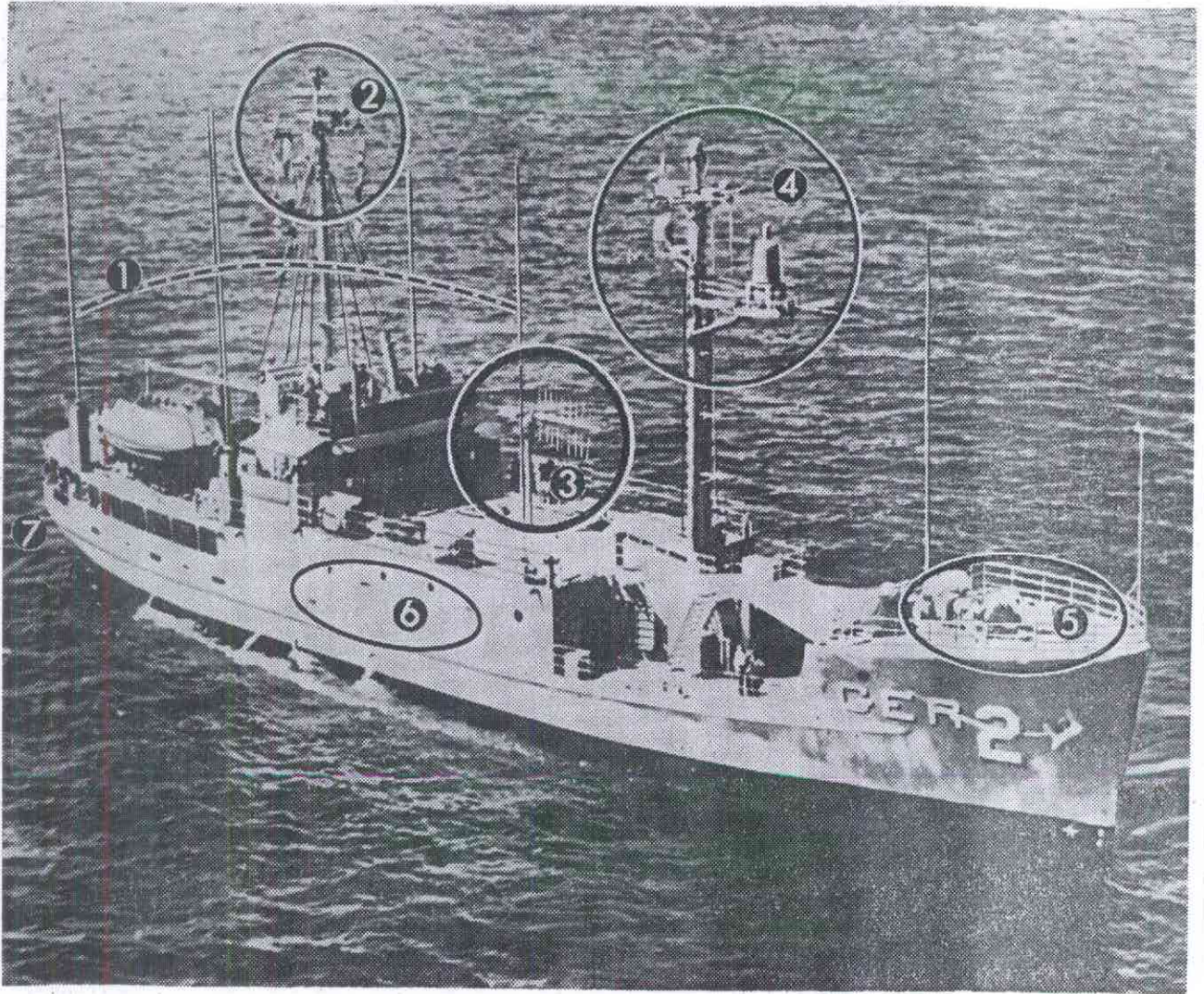
(4) The dome-shaped equipment seems to be additional direction finders. Equipment on the mast also may be capable of bouncing signals off the troposphere for long-range communication.

(5) While they do not show in this photo and presumably were added after the picture was taken, the Navy said two 50 calibre machine guns were located on the bow and two others on the stern. The Naval Court of Inquiry will ask why they were not used. An electronic "ear" like the one on the USS Liberty, the spy ship shot up by Israel in 1967, also might have been added at this location.

(6) Below deck, the Navy had recording and coding equipment. It probably had computers as well. Pueblo crewmen frantically tried to smash this equipment with axes at the last minute, indicating the destruct mechanisms were insufficient. Some of the equipment was heaved overboard; some of it was captured.

(7) The Pueblo most likely was supposed to listen to submarines as well as shore communications. So it is probable the ship dragged a long line of hydrophone devices from behind it, unless the hull had been modified and such equipment built in. Such a line of "underwater microphones" would sink down and relay into tape recorders the distinct noise, or "signature," of Soviet or other submarines passing by.





The USS Pueblo and its spy equipment (details below) in photo taken before capture by North Koreans last January.