Seized Ship Part of Worldwide Intelligence Net 24 JAN 68

By EVERT CLARK Special to The New York Times

WASHINGTON, Jan. 23-The intelligence ship Pueblo was one unit in a vast network of vices that the United States operates on land and sea, in the air and in space.

Engineers who have seen De-technically Engineers who have seen De-reconnically complex world fense Department photographs where radio, radar and satellite of the ship have no doubt that communications play a vital it was trying to pinpoint the role in warfare, "environment" sites of key radio and radar often mean the electronic sur-stations in North Korea, one roundings, rather than more of the world's most likely tangible phenomena. The vessel was also described

Vessels Seek Electronic Data radar has a different purpose on Missile-Guidance Radar Designed by Russians

vironmental-research ship. In a technically complex world

since radar is used not to carry messages but to find a hostile ship, plane, missile or satellite and sometimes to direct a counterweapon toward it.

To listen furtively to an enemy radio and find out what military messages it carries takes time, so a ship that can stay on station or cruise in a limited area is an ideal vehicle. To ferret out new radar fre-quencies takes less time, but

trouble spots. There is some feeling here as a modified auxiliary light that the Pueblo was trying to take down on magnetic tape pertinent—a Navy intelligence-the electronic signatures of So-viet-built antiaircraft and mis-sile-guidance radars. Such signatures are needed so that American engineers can be deterned at the electronic countermeas-tother electronic countermeas-ures to cripple a radar in the electronic warfare, accord to the liberty and the Dura to the the electronic warfare, accord to the liberty and the Dura to the the l

otner electronic countermeas-ures to cripple a radar in the event of combat. Electronic warfare, accord-ing to the experts, has emerged in Vietnam as a necessity for victory in modern war. Pilots Rely on Devices The magazine Aviation Week & Space Technology noted this month, in a study of electronic The magazine Aviation Week energy emitted by the enemy's frequencies. American aircraft and thus reveal its frequencies to simplify and the target and thus reveal its frequency or to frequency and the target and thus reveal its being used. The Defense Department had thus reveal at the target and thus reveal at the target a