

The invention relates to underwater acoustics and can be used for remote monitoring of water spaces in order to find fresh water sources in the sea. The sonar antenna comprises a transmitter antenna, a transmission path, a first frequency divider, a clock generator, the first receiving antenna and the display for representation of information. According to the invention, there are introduced: a first amplifier-restrictor, first phase detector, a voltage drop selector, analog-to-digital converter, a reversible counter, calculator, second receiving antenna, second amplifier-restrictor, zero fixation unit, the second frequency divider, generator with an external control of signal phase, second phase detector, phase shifter $\pi/2$, a third phase detector and a threshold device. The invention provides enhancement of resolution at evaluation of water salinity boundaries with vertical profile of sonar due to provision of possibility of evaluation of scattering properties of the ground.