

Suitable depth of cage aquaculture establishment due to the temperature of water layers in the southern basin of the Caspian Sea

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Abstract

Water temperature sampling was carried out seasonally and in the course of one year, 480 samples were taken from the depths of 5 meters, 10, 20, 50 and 100 meters. Transects from West to east were Astara, Anzali, Sefidrud, Tonekabon, Noshahr, Babolsar, Amirabad and Turkmen, respectively. Regarding the temperature profile of water, it seems that water temperature in summer 5, 10 and 20 meters is not suitable for breeding of salmon. If the breeding system continues continuously throughout the year, the depth of deployment the cage is increased and the cage is transported at a depth of 20 to 30 meters.

Keywords: Cage Aquaculture, Water temperature, Caspian Sea, Depth of water, Thermal layer