Effects of PAHs on Blood Thyroidal Hormones of Liza klunzingeri in the Northern Part of Hormuz Strait (Persian Gulf)

Authors : Fateme Afkhami, Mohsen Ehsanpour, Maryam Ehsanpour, Majid Afkhami

Abstract : This study was conducted to determine the effects of polycyclic aromatic hydrocarbons (PAHs) on thyroidal hormones of Liza klunzingeri and to monitor marine pollution from northern part of Hormuz strait (Persian Gulf). Results showed the highest total PAHs levels (268.56 μ g/kg) were in the fish samples and the lowest are obtained from water samples (3.12 μ g/kg). Also, highest of PAHs levels in fish, sediment and water were found in St3. There was a positive correlation between T3 and T4, with PAHs results. T4 had a significant positive correlation (P<0.05).

Keywords : PAHs, thyroidal hormones, Liza klunzingeri, Hormuz Strait, Persian Gulf

Conference Title : ICFAEST 2014 : International Conference on Fisheries, Aquaculture Economics and Seafood Trade

Conference Location : Barcelona, Spain

Conference Dates : October 27-28, 2014

1