of discussion, the profiles were presumed as follows.

Abstract

In order to develop a bioaccumulation model which predict the levels of hazardous chemicals in food chain of sea area, we carried out the surveys in Tokyo Bay to examine concentrations of coplanar-PCB (Co-PCB), crude fat levels and so on in fish (conger -eel: Conger myriaster and Japanese whiting: Sillago japonica).

From these research data, we could discuss about bioaccumulation profiles of Co-PCB of living fish in Tokyo Bay. As the results

• The bioaccumulation levels of Co-PCB in conger-eel and Japanese whiting are risen with their age, but the level of fat does not affect to the increase of accumulation of age-related Co-PCB.
• In the conger-eel inhabiting Tokyo Bay, the Co-PCB is mainly distributed in that fat.

• The lower fat fish inhabiting Tokyo Bay has higher concentration of Co-PCB in crude fat unit.

• In the conger-eel and Japanese whiting inhabiting Tokyo Bay, the accumulation rates of Co-PCB congenr which have 5 or 6 chlorine atoms are higher than that of Co-PCB congeners which have 4 or 7 chlorine atoms.

Non-ortho PCBs have lower accumulation rate than mono-ortho Co-PCBs.
 In the Co-PCB congeners which have same number of chlorine atoms, a Co-PCB congener which has higher water solubility.

· In the Co-PCB congeners which have same number of chlorine atoms, a Co-PCB congener which has higher water solubility has higher accumulation rate.