**C090-001** Room: C402 Time: May 29 9:06-9:18

Primary production mechanisms of picophytoplankton from the warm water region to the upwelling region in the equatorial Pacific

# Kazuhiko Matsumoto[1], Takeshi Kawano[2]
[1] JAMSTEC, [2] Ocean Res. Dept., JAMSTEC http://www.jamstec.go.jp/

The ocean environment is different from the western warm water region to the central and eastern upwelling region in the equatorial Pacific. Primary productivity has a great difference between the warm water region and the upwelling region, because the vertical profile of nutrients is different at that regions, and then, phytoplankton distribution is also different. It knows that picophytoplankton is a major contributor of biomass and primary productivity at the open ocean including equatorial Pacific, but there is a little detailed observation related to the primary productivity with picophytoplankton from the warm water region to the upwelling region at the equatorial Pacific. In this study, our objective is to clarify the relations with the distribution, biomass and primary productivity of picophytoplankton that is major phytoplankton in this region.