[JJ] Evening Poster | A (Atmospheric and Hydrospheric Sciences) | A-OS Ocean Sciences & Ocean Environment

## [A-OS18]Physical Oceanography (General)

convener:Eitarou Oka(Atmosphere and Ocean Research Institute, The University of Tokyo), Yoshimi Kawai(Research and Development Center for Global Change, Japan Agency for Marine-Earth Science and Technology), Tomoki Tozuka(東京大学大学院理学系研究科地球惑星科学専攻)

Tue. May 22, 2018 5:15 PM - 6:30 PM Poster Hall (International Exhibition Hall7, Makuhari Messe) This session invites presentations on a wide variety of topics related to physical oceanography.

## [AOS18-P03]Analysis of long-term linear trends of the sea surface height around the Korean marginal seas based on quantile regression

Byung-Jun Lim<sup>1</sup>, \*You-Soon Chang<sup>1</sup> (1.Kongju National University) Keywords:Korean marginal seas, sea surface height, quantile regression

This study analyzed the long-term linear trends of the sea surface height around the Korean coasts for the period of 1993~2016 by using quantile regression. In the Yellow seas, there found significant difference about 2~3 mm/year for the linear trend between OLS (ordinary least square) and median(50%) quantile regression, which is affected by extreme event. Each area shows different trend for each quantile. Most areas of the Yellow sea show increasing trend in both low and upper quantile, but significant upward divergence tendency. This implied that increasing trend of upper quantile is higher than that of lower quantile in this area. However, South sea generally shows upward convergence tendency representing that increasing trend of upper quantile is lower than that of lower quantile.