Dynamics of sewage-derived nitrogen in the coastal area of a mega city

\*Mitsuyo Saito<sup>1</sup>, Shin-ichi Onodera<sup>2</sup>, Guangzhe Jin<sup>2</sup>, Masanobu Taniguhchi<sup>3</sup>, Yuta Shimizu<sup>4</sup>

1.Graduate School of Environmental and Life Science, Okayama University, 2.Graduate School of Integrated Arts and Sciences, Hiroshima University, 3.Wakayama University, 4.JSPS PD, NARO/WARC

Water pollution by human activities has been improved by sewage systems in the big cities. However, increase of sewage-derived material load during rainfall events and groundwater inflow to sewage pipes are recognized as new problems in recent years.

In the present study, we aimed to examine the dynamics of sewage-derived nitrogen in the coastal area of Osaka bay.