

博士論文発表会・*Doctoral Thesis Presentation*

MEASUREMENT AND PHOTOCHEMICAL DYNAMICS OF REACTIVE OXYGEN SPECIES AND CHROMOPHORIC DISSOLVED ORGANIC MATTER IN JAPANESE RIVERS

(日本の河川における活性酸素および有色溶存有機物の計測と光化学的動態)

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Three reactive oxygen species (ROS) including hydroxyl radical ($\cdot\text{OH}$), nitric oxide radical ($\text{NO}\cdot$) and singlet oxygen ($^1\text{O}_2$) were investigated across nine rivers in Japan with the aim of identifying their sources and sinks. Using absorption and fluorescence spectroscopic methods, the optical properties of dissolved organic matter (DOM) were also investigated in some of the rivers. Excitation-emission matrices of the DOM were combined with PARAFAC modelling in characterizing their sources and fates. Relationship between the ROS and DOM were discussed.

本発表会は、生物圏科学研究科 及び 統合生命科学研究科 (2019年度入学生を除く) の共同セミナーの対象となります。

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