



ASIA-PACIFIC NETWORK FOR
GLOBAL CHANGE RESEARCH



JAPAN SOCIETY FOR THE PROMOTION OF SCIENCE
日本学術振興会



HIROSHIMA UNIVERSITY

International Workshop of Water Resources and Nutrient Flux Managements in Asian Coastal Cities for SDGs

Organizer: Promising Research Initiatives of Healthy Cycle in Asian Catchments in HU

APN Project (CRRP2019-09MY-Onodera, 2019-2022)

JSPS Project (18H04151, PI: Onodera, 2018-2021)

Osaka Bay Project (010005, 020004, PI: Saito, 2019-2021)

Date: 22 January in 2021

Place: K204, Faculty of Integrated Arts and Sciences, Hiroshima University
and Zoom

Program

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|-------------|---|--|
| 13:00-13:10 | Opening and Objective of WS | Shin-ichi Onodera (Hiroshima Univgersity) |
| 13:15-13:45 | Water resources and nutrient flux in a Chinese megacity, Guangzhou | Jianyao Chen (Sun Yat-Sen University) |
| 13:45-14:00 | Nutrients change in Guangzhou | Manzhi Li and J. Chen (Sun Yat-Sen University) |
| 14:00-14:30 | Water resources and quality change in Tokyo | Takeshi Hayashi (Akita University) |
| 14:40-15:10 | Nutrient flux change in Osaka Bay watershed | Mitsuyo Saito (Okayama University),
Kunyang Wang and Shin-ichi Onodera (Hiroshima University) |
| 15:10-15:40 | Recovery of groundwater contaminated by the Tohoku earthquakes tsunami in 2011 in Sanriku | Ichiro Kawahara (Hiroshima University) |
| 15:40-16:10 | Tsunami in Indonesia, its impact on natural and social resources | Eko Yulianto (Indonesian Institute of Sciences) |
| 16:10-16:25 | General discussion | |
| 16:30-17:10 | Impact of brackish-water aquaculture activity on groundwater vulnerability in coastal alluvial plain: an evaluation to reach sustainability | Anna Rusydi (Hiroshima University, and Indonesian Institute of Sciences) |
| 17:10-17:30 | General discussion and Closing | |

水文科学会 SWAT WG 2020 年度第 3 回 WS

日時 2021 年 1 月 23 日 (土) ~1 月 24 日 (日)

場所 広島大学 学士会館 会議室 1 & 2

会議日程

1 月 23 日 (土)

10:00-10:15 はじめに 小野寺真一 (広島大学)・齋藤光代 (岡山大学)

10:15-12:15 Lecture 1: interpolation and mapping for downscaling to some grid, HRU, and sub-basin
By 清水裕太 (農研機構) Wang, Kunyang (広島大)

Lunch

13:30-15:30 Presentation 1

30min 今村直弘 (森林総研) 山地源流域における蒸発散と地形による影響の検討

30min Wang, Kunyang (広島大) Long-term change of spatial variation in nitrate load

30min 永野裕子 (日林協)・藤井創一郎 地下水涵養量の地質による違い

30min 清水裕太 (農研機構) 栄養塩起源の評価

15:40-17:40 Personal Discussion 1 By the Web with Simizu, Y and in the room with Wang

18:30-20:00 On-line Informal Meeting

1 月 24 日 (日)

8:00-10:00 Personal Discussion 2

10:00-12:00 Lecture 2: extrapolation and prediction for the future under the land use and climate changes
By 清水裕太 (農研機構) Wang, Kunyang (広島大)

Lunch

13:00-14:20 Presentation 2

20min Kimbi, Sharon (広島大) Urbanization effect with landfilling of paddy field and irrigation ponds on groundwater recharge

20min 石原秋太 (岡山大) 水田の都市化にともなう洪水・窒素負荷影響

20min 野仲一成・宮川真央 (日林協) 有明海筑後川・菊池川流域での解析例

20min 山崎正稔 (パスコ)・木下 牧・永野裕子 有明海他流域・常陸太田流域での解析例

14:20-14:50 General Discussion: Publication, Presentation, Next step and plan

14:50-17:00 Personal Discussion 3