Mapping Paddy Rice Distribution and Cropping Intensity in South and Southeast Asia (1995 - 2024) at 30m Resolution

Zizhang Zhao[1,2], Jinwei Dong[2,3*], Geli Zhang[1*], Jilin Yang[4], Xiangming Xiao[5]

1 College of Land Science and Technology, China Agricultural University, Beijing 100193, China

2 Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing 100101, China

3 University of Chinese Academy of Sciences, Beijing 100049, China

4 College of Grassland Science and Technology, China Agricultural University, Beijing 100193, China

5 School of Biological Sciences, University of Oklahoma, Norman, OK 73019, USA

Correspondence to: dongjw@igsnrr.ac.cn; geli.zhang@cau.edu.cn

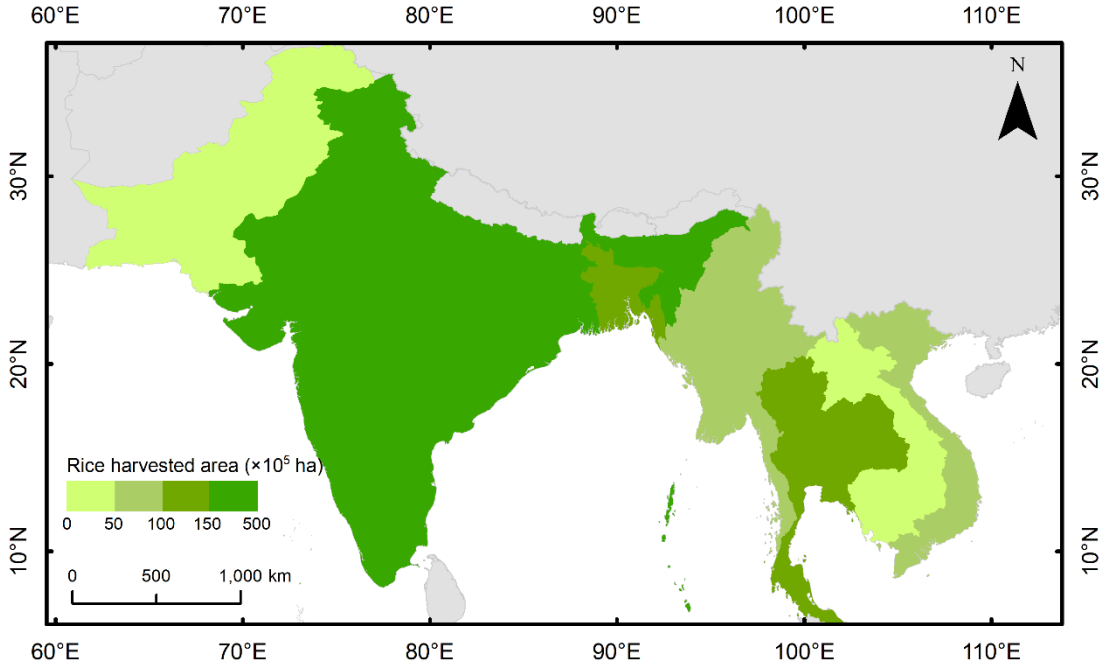

Figure S1. Distribution of rice harvested area in the study region of South and Southeast Asia (unit: $\times 10^4$ ha)

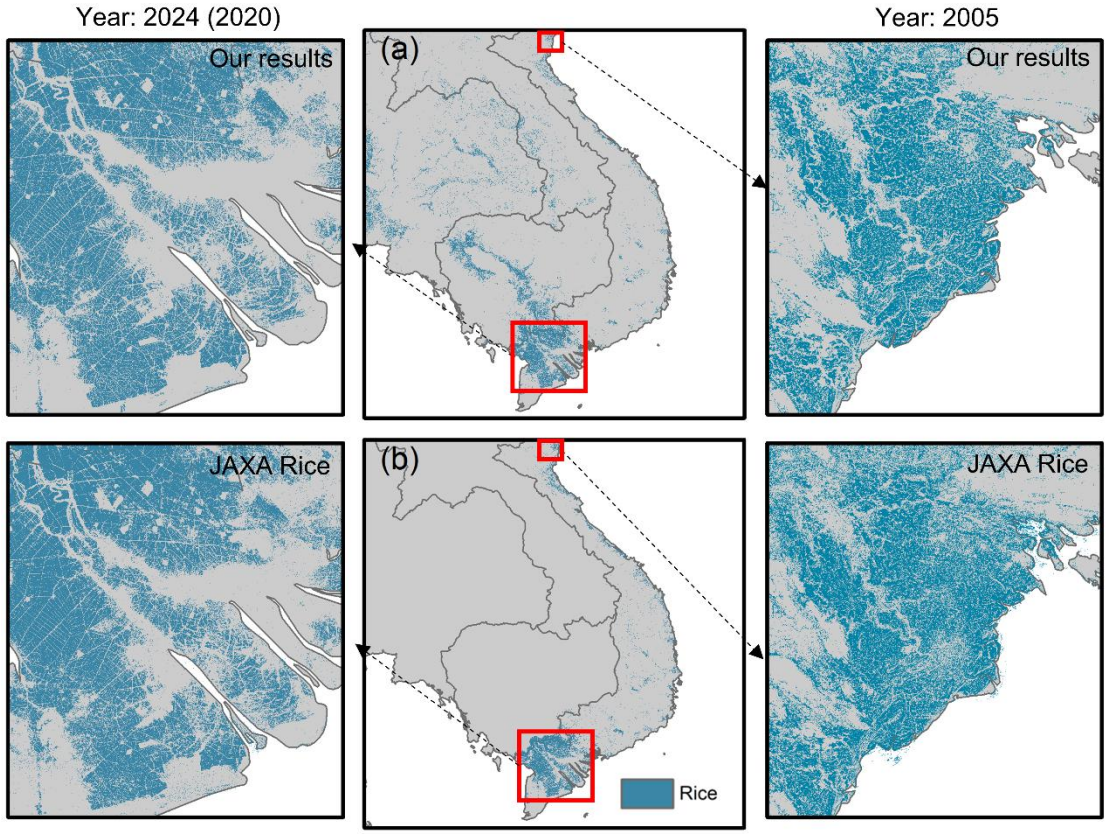

Figure S2. Comparison of rice mapping results between our method and JAXA Rice product in Vietnam for the years 2024 (2020) and 2005, with zoomed-in views of selected regions.

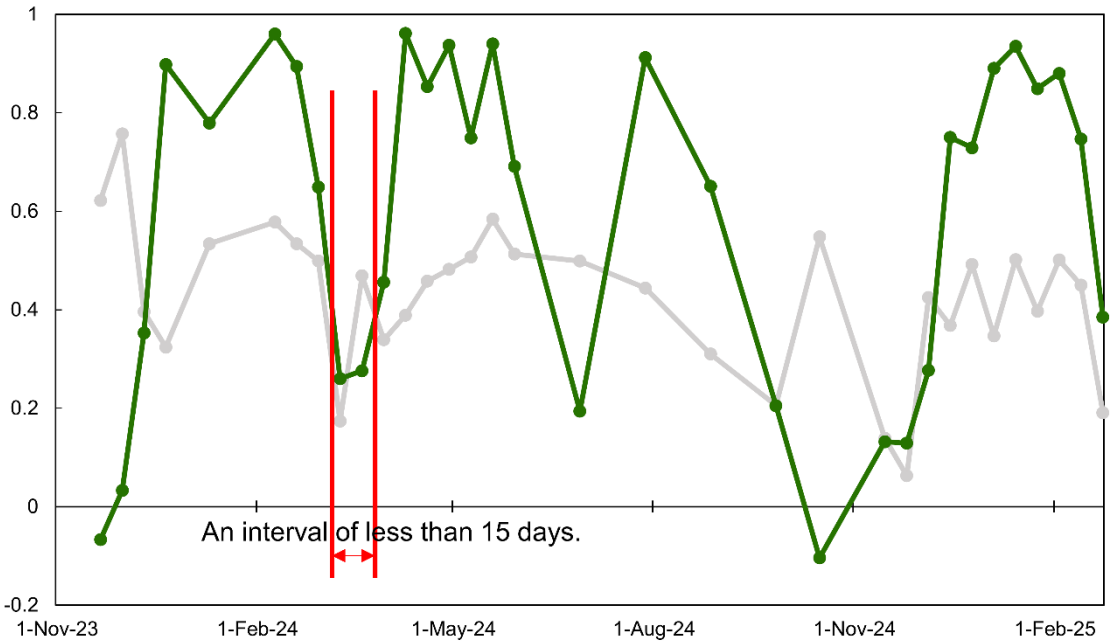

Figure S3. Time series of Land Surface Water Index (LSWI) and Normalized Difference Vegetation Index (NDVI) for a typical rice pixel in the Mekong Delta, Vietnam, from November 2023 to February 2025 with a red vertical line indicating an interval of less than 15 days

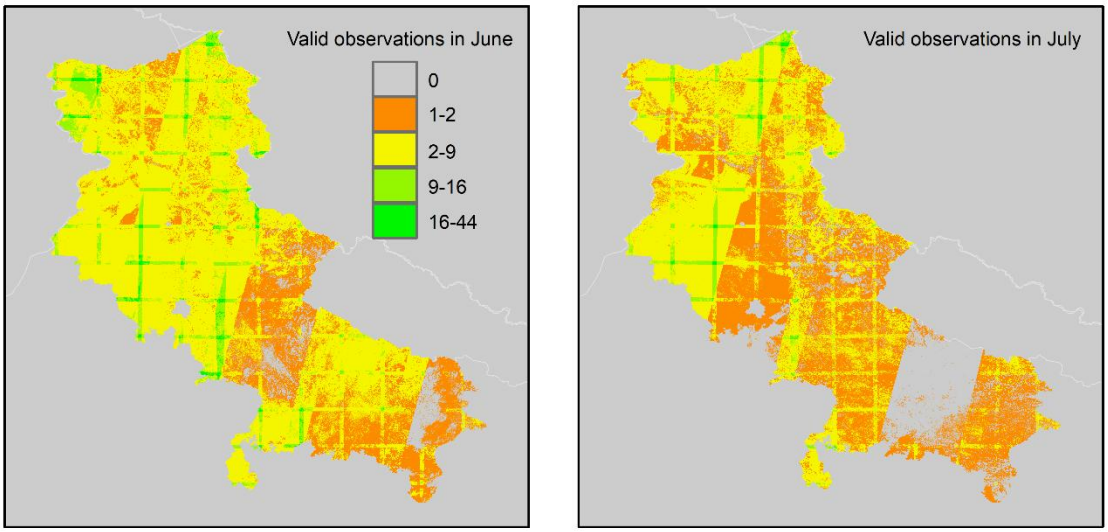

Figure S4. Spatial distribution of valid satellite observations in the Mekong Delta, Vietnam, for June (left) and July (right).