

Figure S1. Data number frequency without (a) and with (b) masking for Ariake Sea from 2002 to 2017.

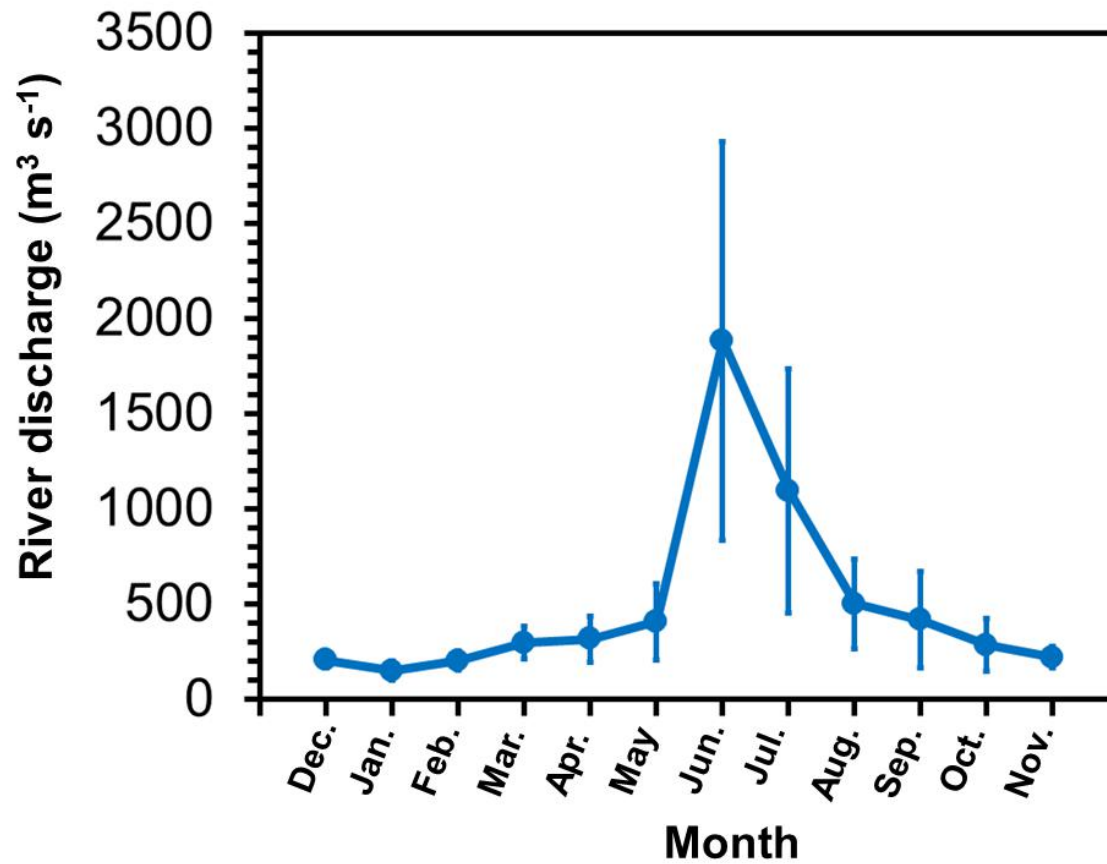


Figure S2. Monthly river discharge from the seven main rivers (Figure 1) to the Ariake Sea.

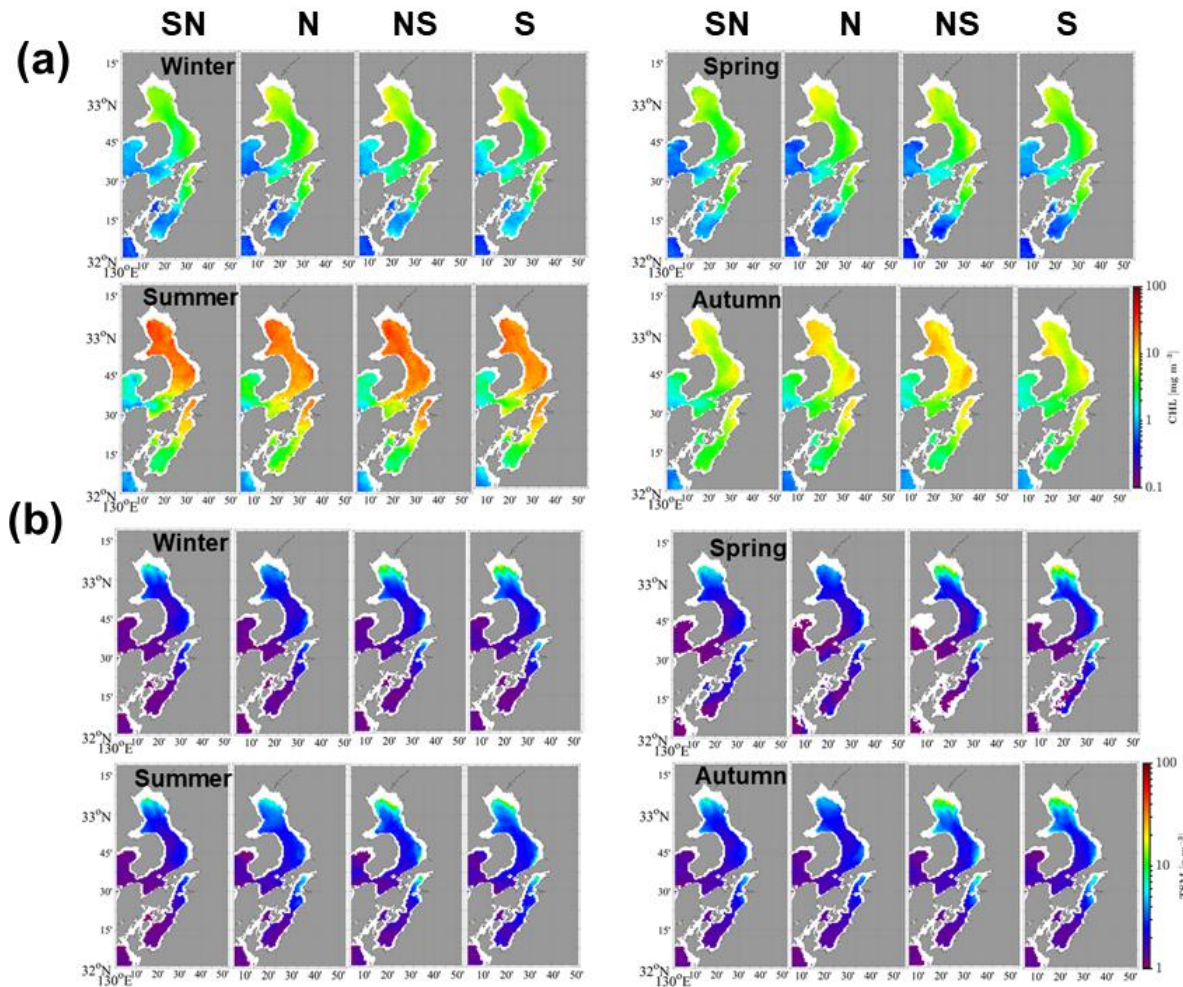


Figure S3. Satellite images of seasonal climatology of Chl-a (a) and TSM (b) over the spring-neap tidal cycle.