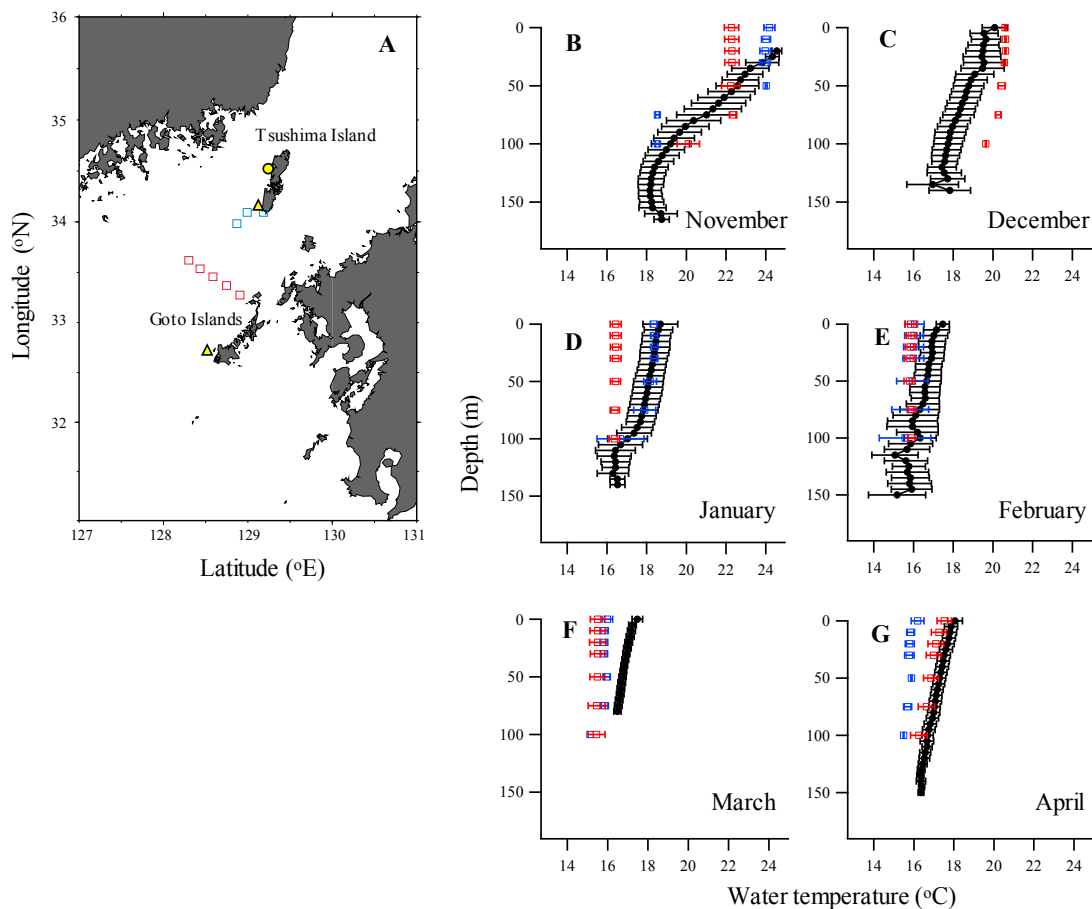


## Diel vertical migration of chub mackerel: preliminary evidence from a biologging study

Tohya Yasuda\*, Naoki Nagano, Hajime Kitano

\*Corresponding author: ytohya@affrc.go.jp

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**Figure S1.** (A) Map of study area. Yellow circle and triangles indicate locations of the release and recapture points, respectively. Open squares indicate the locations of ship observation by the Saga Genkai Fisheries Research Development Center (blue) and the Nagasaki Prefectural Institute of Fisheries (red). (B-G) Monthly depth-temperature profiles of the tagged chub mackerel (black) and vessel observations (red and blue) from November 2016 to April 2017. Mean  $\pm$  s.d. of temperatures at each 5-m depth interval were shown for the tagged fish. Mean  $\pm$  s.d. of temperatures at the depths of 0, 10, 20, 30, 50, 75, and 100 m were shown for ship observations. Note that data on December have a deficit due to bad weather.