Continental river discharge for additional dataset of JRA55-do to drive a global ocean circulation model

*Tatsuo Suzuki[1], Dai Yamazaki[1], Hiroyuki Tsujino[2], Yoshiki Komuro[1], Hideyuki Nakano[2], Shogo Urakawa[2]

1. Japan Agency for Marine-Earth Science and Technology, 2. Meteorological Research Institute, Japan

A dataset of historical daily river discharge into oceans has been created using Global river routing model CaMa-Flood (Yamazaki et al., 2011) forced by runoff data from the land surface component of JRA-55 (Kobayashi et al. 2015). The major continental rivers are well resolved with 0.25-degree horizontal resolution. The total runoff on each drainage basin have some distinctive bias. Therefore, the input runoff data is modified by 5-year low pass filtered multiplicative factors to fit the long time mean and decadal variations of the major continental rivers and total river discharge into the individual basins to the reference dataset of Dai et al. (2009). The model is calculated from 1958 to 2016. The yearly and seasonal variations of major rivers are reasonably represented. This data production is planned to be update following the JRA-55.

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