

Interactive comment on “The Effects of Ocean Surface Waves on Global Forecast in CFS Modeling System v2.0” by Ruizi Shi et al.

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We have a little more to add to the significance of our research. The CFS is a coupled system with wide application and great development potential. The CFS Reanalysis (CFSR) data is widely used in other models, such as providing the initial field for WRF and as the forcing field for WW3. In addition, the NCEP is establishing its own first global scale coupled system, called GFS-Wave (<https://polar.ncep.noaa.gov/waves/wavewatch>), in which the Global Forecast System (GFS; the atmosphere module in CFS system) is one-way coupled with the WW3 global wave model. Our work provides test cases of two-way wave coupling of CFS on weather and sub-seasonal forecast. The impact of two-way wave coupling is clearly shown. The study would be useful for the future development of CFS-wave coupling

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system.

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C2