



EGUsphere, author comment AC3
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Reply on RC3

Arachaporn Anutaliya

Author comment on "Surface circulation in the Gulf of Thailand from remotely sensed observations: seasonal and interannual timescales" by Arachaporn Anutaliya, EGU sphere, <https://doi.org/10.5194/egusphere-2022-495-AC3>, 2022

The paper presented the surface circulation in the Gulf of Thailand from remotely sensed observations. There are many interesting study results presented in this paper. I propose to accept this paper for publication with minor revision.

The comments are

The GoT is influenced by the SCS. More results related to the influence from the SCS should be mentioned or analyzed.

- More discussions regarding the interaction with the SCS is added in both the introduction and results sections.

The uGoT region used in this paper should be clearly defined because it is mentioned differently in the paper.

- The author thanks the reviewer for pointing this out; the text has been updated to be consistent.

CEOF is widely used in the atmospheric and marine scientific research and is also used in the paper, but it is rarely found to be used to study for the GoT. Therefore the CEOF method should be briefly described, although it is well known.

- The author thanks the reviewer for the suggestion. The methodology section is added to describe the complex empirical orthogonal function.

There is an error in Figure 1, please revise.

- The author cannot locate the error and would greatly appreciate it if the reviewer could provide any detail regarding the error.

Please review the references, for example: line 370, Atoms?

- The author apologizes for the wrong information provided. The text has been revised and the reference has been reviewed.

The validations of the results were still unclear. Please describe the results of the main goal clearly.

- This study improves the understanding on the dynamics associated with the GoT circulation that has not been well-studied. It shows the role of wind on modifying both geostrophic and ageostrophic current. In addition, the study provides the variability of the circulation at the interannual timescale. The author tried to emphasize the significance of this study better in both abstract, results, and conclusion sections.