

Interactive comment on “Extraction of spatial-temporal rules from mesoscale eddies in the South China Sea Based on rough set theory” by Y. Du et al.

Y. Du et al.

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Major comments:

1. The rough set theory has been supplemented in description in Section 2.2. Section 2 is named as *Data and method* now and data description has been moved to Section 2.1.
2. Some discussable contents have been separated from Results to Discussion. And the drawback of rough set theory is presented in Discussion. The ways used in previous studies that reviewer mentioned would not be presented because of
C654

none of previous study applies rough set theory in oceanography.

3. This paragraph focuses on the drawback of rough set theory and has been put in Discussion.
4. Maybe we cannot discuss the dynamic mechanism in this paper due to the states of eddy are considered as study object rather than the eddy process. The study of eddy dynamics is our following target and gets in process.

Minor comments:

1. Yes, ‘based on’.
2. 60 nautical miles
3. Indiscernibility
4. D with
5. Were
6. Delete ‘hence’
7. High-resolved data
8. NLOM data doesn’t derive from AVISO data, which would be checked the accuracy by *in situ* observation data.
9. Following Rules 3 and 4.
10. The whole manuscript has been check again. We try our best to correct the possible mistakes that we can find. If still are, please let me know.