

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.

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Specific comments Section 2.1: Please see Line13-22 Page 4.

Section 2.1.2: Please see Line19-23 Page 5.

Section 2.2: Please see Line29-34 Page 5.

Section 2.2: There are 76 eddy processes tracked in this paper, including 58 eddies with 5-and-more typical states and 18 eddies with one typical state. In 58 eddy processes so many states have more than one snap shot, so each eddy process involves more than 5 states.

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Section 3.1: Numerical simulation’s reliability should be proved by in situ data in oceanography, not rough set theory. As long as the accuracy of modeling output is greater than a certain percentage, we are able to recognize the output acceptable.

Section 3.3 Maybe I cannot agree this comment. A rule can be followed as a part of a series of rules by one typical state. Another possibility is that this rule can be followed uniquely by anyone else. Thus it is not appropriate to combine some of them to simplify expression.

Forecast: making forecast by using rough set theory is our going target, no including in this paper, so we think it is not necessary to write it in detail. Hope reviewers’ agreement.

Technical corrections Notation: Three symbol errors have been corrected in manuscript.doc file.

Grammatical and typographical: Pg.1277 lines27-29: It should be “following Rules 4 and 5”. Others have been corrected in manuscript.doc file.

Formatting: The figure captions have been corrected in caption corrections.doc, which was submitted earlier.

Other: ĩAñ Wang G Y, 2001. Rough Set Theory and Knowledge Acquisition. Xi’an: Xi’an Jiaotong University Press. (in Chinese) ĩAñ Yes, it does this meaning. And the sentences have been rewrite for reading more clearly. ĩAñ They have been corrected in manuscript.doc. ĩAñ Maybe it does cold eddy rather than ones that rule certainty=100% or rule coverage >10%.

References It has been corrected.

Please also note the supplement to this comment:

<http://www.ocean-sci-discuss.net/8/C564/2011/osd-8-C564-2011-supplement.zip>

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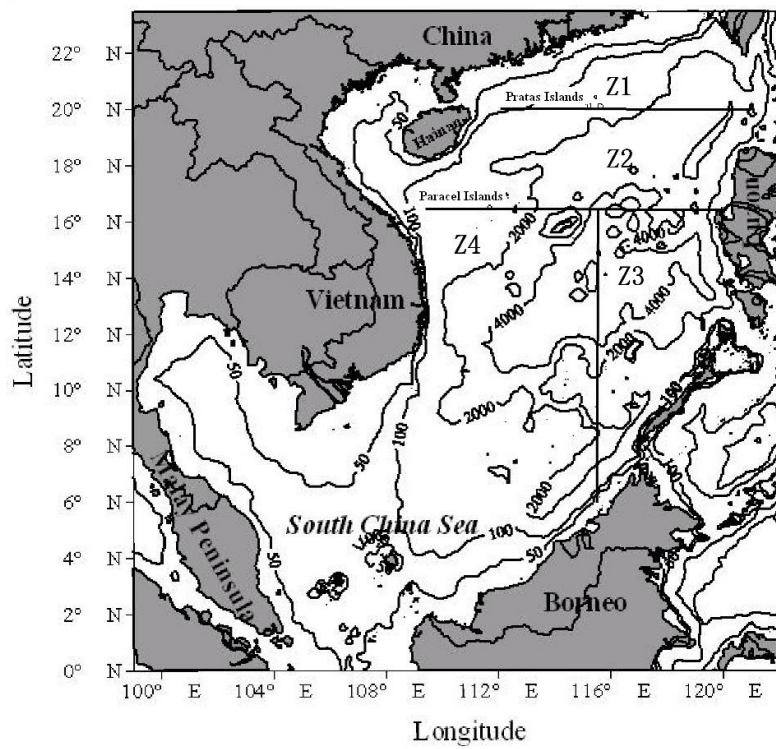


Fig. 1.

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