Ocean Sci. Discuss., https://doi.org/10.5194/os-2018-74-AC1, 2018 © Author(s) 2018. This work is distributed under the Creative Commons Attribution 4.0 License.



OSD

Interactive comment

# Interactive comment on "Could the mesoscale eddies be reproduced and predicted in the northern south China sea: case studies" by Dazhi Xu et al.

Dazhi Xu et al.

xdz@hyyb.org

Received and published: 20 November 2018

General comment: The related studies about the mesoscale eddies in the SCS have amount of achievements, especially owing to the altimeter data widely applied, for understanding the dynamic and the interactions with the environmental current circulations on large scale. The article of "Could the mesoscale eddies be reproduced and predicted in the northern south China sea: case studies" would like focus on two anticyclonic eddies in the northern SCS (NSCS). By helps of a HYCOM-EnOI assimilation system, they found the key of the predictable issues about the eddy generation, evolution and propagation paths can be done well only when the eddy

Printer-friendly version

Discussion paper



Interactive comment

Printer-friendly version

Discussion paper



relate to these two elements. It will be helpful to simple and conclude in Table 2 and 3.

Interactive comment

Printer-friendly version

Discussion paper



raphy. 8:2, 147-161, DOI: 10.1080/1755876X.2015.1087187 Trequier Anne-Marie.

Interactive comment

Printer-friendly version

Discussion paper



AE1/AE2 less than 2 cm? Are they the error or others? And to compare the amplitudes

Interactive comment

Printer-friendly version

Discussion paper



as a surface forcing from Legates and Willmott (1990)." Legates, D.R., Willmott, C.J.,

Interactive comment

1990: Mean seasonal and spatial variability in gauge-corrected, global precipitation. Int. J. Climatology, 10, 111-127. Ans: Thank you! The reference has been corrected in the revised versions. P7, L172: missing the reference of "Han (1984)". Ans: Thank you! The reference has been added in the revised versions. P7, L 183: EnKF as the first place should give the detailed name. Ans: Thank you! The detailed name of EnKF has been added in the revised versions. P9. Section 3.1: The AE2 lifetime was not clearly stated so the first (last) identified date needs be mentioned. Ans: Thank you! The first (last) identified date of AE2 has been added in the revised versions. (P2, line 38, line 43) Table 3: ". . . distance of eddy centers between the observation SLA's . . ." are missing on the content. So double cheek the consistence in caption. Ans: Thank you! The distance of eddy centers for forecast experiments have been added in the revised versions. (in the revised version is table 2) Figure 12: The cyan line is hard to see so change it to be black. The histogram should use the rectangle to present well other than circle and triangle. L631:"The red and green histograms indicated the AE1 amplitudes from observation and prediction respectively." Ans: Thank you! The sentence has been corrected; The circle and triangle have been replaced by the rectangle in the new figure 12 (in the revised version is Fig. 14). Due to the black line has been used to denote AE2, we still use the cyan line denote to AE1 in the revised versions. The wrong order of the references is clear like: P18 L 414 Bleck et al. (2002); P18 L421 Counillon and Bertino (2009); P18 L433 Hamilton et al. (1999); P19 L444 Kara et al. (2002); P20 L475 Rio et al. (2014); P20 L487 Woodruff et al. (1987) Ans: Thank you! The order of the references has been corrected in the revised versions.

Please also note the supplement to this comment: https://www.ocean-sci-discuss.net/os-2018-74/os-2018-74-AC1-supplement.pdf

Interactive comment on Ocean Sci. Discuss., https://doi.org/10.5194/os-2018-74, 2018.

Printer-friendly version

Discussion paper

