

Interactive comment on “Tidal generation of large sub-mesoscale eddy dipoles” by W. Callendar et al.

Anonymous Referee #2

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This paper exhaustively studies the formation of eddy dipoles at Cape St. James in a ROMS model. The mechanism is fascinating - the coalescence of many (7 on average) frictionally generated PV anomalies of both signs into a larger scale dipole. The paper is well-written and suitable for publication as submitted.

A few minor comments: Fig. 1. It might be nice to show where Cape St. James is. Fig. 2. What is density profile? Fig. 3. Is PV integrated to same depth as in Fig. 5? If so, it would be better to move the description from Fig. 5 to here and then note that this definition applies on all subsequent figures.. Fig. 7. 'smaller' should be capitalized.

Interactive comment on Ocean Sci. Discuss., 8, 723, 2011.