RESPONSE

On review of “On modulational instability in a system of jets, waves and eddies off California” by L.M. Ivanov et al.

Thank you very much for your revision of our paper. We indicated our response by red line.

1. “Improve overview of the ocean QZJ ……”
   It was done. See ,p1, ln 28; p2. Ln4; p2., ln 24-31, p3., lm 9-10.

2. “Page 3. I would suggest extending of Connaught et al. (2010)’s results……”
   Done. P. 3, ln 14-22.

3. “Provide more details on how you analyze altimeter observations……..”

   It was done. See, Section 2.

4. “More details should be provided in the Abstract”
   We have revised our Abstract and changed the statement of “The total number of quartets …..”
   See, p.1, ln 15.

5. “lines 25-26, p.98….”

   Done. See, p.2, ln5-7.

6. “After line 25, p. 99……”
   Q is wave steepness. See p. 3, ln 10. The wave steepness cannot be ~2 for weakly nonlinear waves. if $q<1$, then a structure is weakly nonlinear wave, if $q>1$ corresponds to a nonlinear structure. See explanation on p. 2
7. “Explain what is meant by……”
   Done. See p. 4, ln1-2.
8. “Figure 4……..”
   Biannual oscillations in Fig. 4 don’t depict biannual periodicity because those are quadratic values.
9. “Figure 9……..”
   We have revised the legend of Fig. 9 and discussed how we identified two different types of quartets. See, p.17, ln 15-16, ln 21-22.
   Some discussion about different types of quartets has been added. See, p. 17, ln 15-16, ln 21-22.
10. Thank you very much for noted typos.