

Comments to the Author:

Although the paper is not strongly supported by theories, the data are of a certain importance and the paper fulfil the requirements of ESSD. Its weakness is in the Introduction and an improvement is needed. These are some suggestions:

1) Page 2 – lines 24-25. The first sentence of the introduction is not nicely related to the next one. I understand the link, but this link is not really expressed. I suggest two possible solutions: the first is to delete the first sentence; the second is presented in bullet (3).

Reply: We accept the suggestion and have deleted the first sentence.

2) Page 3 – line 14: instead of ‘during swimming, surfing, and snorkelling activities’ I suggest the shorter ‘leisure activities’.

Reply: We accept the suggestion and have revised the contents (marked by blue in the revised manuscript).

3) Page 5 – from line 4: The authors initially have introduced the effects of typhoons on temperature drops, and then present other possible mechanisms, including the intrusion of waters from Kuroshio. This kind of arrangement is creating some confusion and can explain the strong critics of referee 1. My suggestion is: at the beginning of the Introduction give a presentation of various mechanisms that can explain temperature drops (including the Kuroshio) and then start with the authors ideas on the effects of typhoons.

Reply:

We have added a paragraph to present the possible mechanisms that can explain temperature drops in the first section of Introduction, then described the importance of SST drop studies including its influences on marine ecosystem and human’s activities in the ocean. After this first section, we present the previous studies on SST drop after typhoons (Section 2 of Introduction) including the significant cases in South China Sea (Section 3 of Introduction) and NE Taiwan waters (Section 4 of Introduction). In the last section of Introduction, we explain the motivation and objective of this study. I hope this organization helps the readers to understand the contents.

The remaining part of the paper can remain as it is.