To further improve the manuscript presentation, this reviewer gives the following suggestions.

- 1. Change the title to "Statistical features of spatiotemporal distributions of internal waves in the northern South China Sea derived from MODIS imagery by deep learning approach".
- 2. Change the title of Section 3 to "Signature extraction and validation".
- 3. Change the title of Section 4 to "Statistical analysis".
- 4. Change the title of Sub-section 4.3 to "IW silence regions". It is not "new IW findings". See Figure 13a in Zhang et al., 2023, IEEE TGRS.
- 5. Change the caption of Figure 5 to "Statistical histograms of IW pixel number vs the water depth for (a) the whole northern SCS (orange) and (b-e) four regions as shown in Figure 4 (blue)".
- 6. Change the caption of Figure 6 to "Statistical histograms of monthly distributions of IW days for (a) the whole northern SCS (orange) and (b-e) four regions (blue)".
- 7. Change the caption of Figure 7 to "Statistical histograms of IW pixel number vs the lunar day for (a) the whole northern SCS (orange) and (b-e) four regions (blue)".
- 8. Change the caption of Figure 8 to "IW silence regions (black arrows) in (a) Region 2 and Region 1 derived from superimposed IW location".
- 9. Wording and writing need further improvement. Take a sentence from L189 to L191 as an example.

As shown in Figure 4, We classified we divided the detected IW locations into four regions 1 - 4, according to the spatial locations. Region 1 includes which covers the area between from 112.5°E to -114.2°E and from 18.5°N to -20.9°N<sub>a</sub>; Region 2 includes the area between from 114.2°E to -118.1°E and from 19.5°N to -22.2°N<sub>a</sub>; Region 3 includes the area between from 118.1°E to -120.0°E and from 22.0°N to -223.80°N<sub>a</sub>; Region 4 includes the area between and from 118.1°E to -120.5°E and from 19.5°N to -22.0°N, respectively.