

Final Corrections Submitted to Handling Editor

Figure 2 Update:

Figure 2 has been updated to reflect changes in the abbreviations of buoy organizations and network names, as well as a revision to a sea region boundary. These changes are consistent with the manuscript content and do not affect any analyses or conclusions. The previous version was outdated.

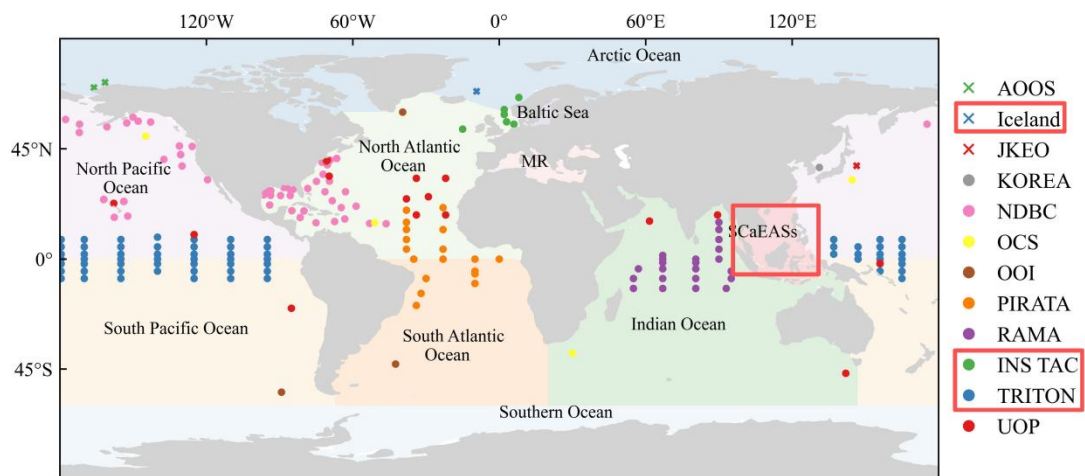


Figure 2 outdated. Geographic locations of 197 buoy sites from 12 organizations or networks involved in this analysis including TAO/TRITON, PIRATA, RAMA, NDBC, TAC, UOP, OOI, AOOS, KOREA, OCS, JKEO and IMO. The boundaries of global land and open oceans were sourced from the Natural Earth dataset (<https://www.naturalearthdata.com/downloads/>, last access: 8 January 2025) and the Global Oceans and Seas dataset (<https://www.marinerregions.org/sources.php>, last access: 8 January 2025), respectively. Abbreviations MR refers to the Mediterranean Region. It should be noted that the Caspian Sea was not included within the boundaries of the open oceans and is shown in white.

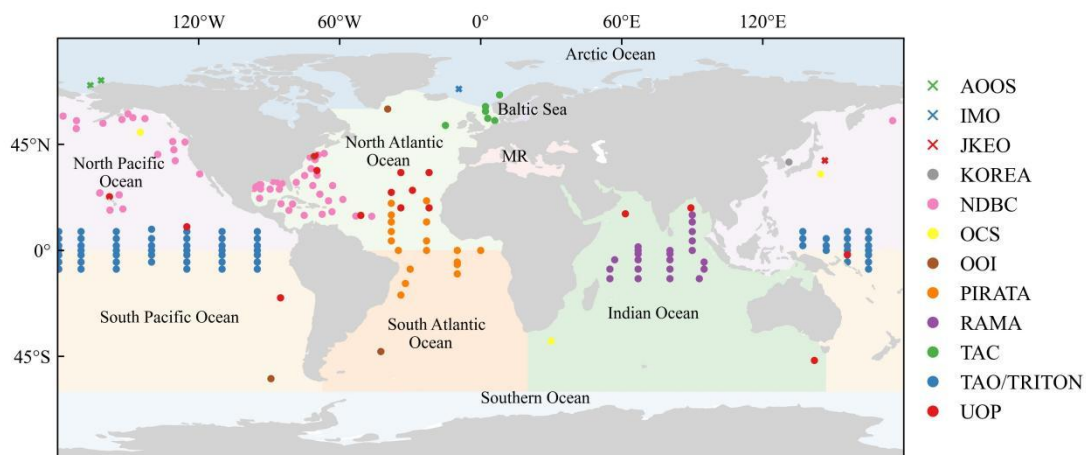


Figure 2 updated. Geographic locations of 197 buoy sites from 12 organizations or networks involved in this analysis including TAO/TRITON, PIRATA, RAMA, NDBC, TAC, UOP, OOI, AOOS, KOREA, OCS, JKEO and IMO. The boundaries of global land and open oceans were sourced from the Natural Earth dataset (<https://www.naturalearthdata.com/downloads/>, last access: 8 January 2025) and the Global Oceans and Seas dataset (<https://www.marinerregions.org/sources.php>, last access: 8 January 2025), respectively. Abbreviations MR refers to the Mediterranean Region. It should be noted that the Caspian Sea was not included within the boundaries of the open oceans and is shown in white.

Sentence revision in Section 2.3.2:

Please replace the sentence on Page 6, lines 19-21:

"The model was constructed consisting of one input layer, three hidden layers, two BatchNormalization layers, and one output layer using the Python TensorFlow library."

with

"The model was constructed using the Python TensorFlow library and consisted of one input layer, three fully connected hidden layers, two Batch Normalization layers applied after the first and second hidden layers, and one output layer."

This revision provides a minor clarification of the model architecture to improve readability and avoid ambiguity.