

Abstract

The present invention provides a ship carbon intensity indicator (CII) level auxiliary decision support system and method. The system comprises an information acquisition module, a data quality monitoring module, a fuel consumption model building module, a level monitoring module, a level prediction module, a level auxiliary decision module, and a human-machine interaction module. The human-machine interaction module is connected to the information acquisition module, the data quality monitoring module, the fuel consumption model building module, the level monitoring module, the level prediction module, and the level auxiliary decision module, respectively. The information acquisition module, the data quality monitoring module, the fuel consumption model building module, the level monitoring module, the level prediction module, and the level auxiliary decision module are connected sequentially. These modules work together synergistically. The present invention can effectively enhance the monitoring and prediction capabilities for a ship's CII value, help prevent violations caused by exceeding the CII level limit, and facilitate the formulation of reasonable ship sailing plans in advance.

[Figure 1]