DECISION SUPPORT SYSTEMS DESIGN OF MERAK – BAKAUHENI ROUTE IN EXTREMES CONDITIONS TO INCREASE SHIP SAFETY FACTOR

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Abstract

The Merak – Bakauheni shipping route is the most crowded crossing lane in Indonesia. However, Merak – Bakauheni’s areas also have constraints like instability weather condition that cause the course of the voyage interrupted. On this research, decision support system program has been made to simulate warning for ships if they got unconducive voyage condition with determining the changeable trajectories caused by disruption streams, wave, and wind rapidity. This program created by using an image map of Merak – Bakauheni cruise line to show the ship’s maneuver motion in these areas. When the system shows some errors because of the ship’s position unsuitable with the weather condition, will be warned and get some decision to follow the new trajectory line assigned, so that the ship could set to point. Of programs made indicates that the program can be run properly, so the ship could respond to the decisions set by the controller.

Keywords: decision support system, Merak – Bakauheni, extreme condition
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