

JTSTB Digests

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Digest of Marine Accident Analyses For prevention of Collision Accidents of Small Vessels —Let's Use AIS—

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1. Preface

From 2008, when JTSTB was established, to 2020, JTSTB investigated and published investigative reports on, 104 collision accidents between vessels (208 vessels involved) that resulted in fatalities or missing persons (hereafter referred to as "collision accidents with fatalities or missing persons"). The number of fatalities and missing persons resulting from these accidents was 127 and 38 respectively, for a total of 165.

Looking at the vessels involved in collision accidents with fatalities or missing persons by vessel type, 95 (45.7%) were fishing vessels, 35 (16.8%) were pleasure boats, and 34 (16.3%) were cargo ships. (See Fig. 1)

Furthermore, looking at the number of vessels involved in collision accidents with fatalities or missing persons by gross tonnage, small vessels (less than 20 tons) accounted for 158 (76.0%) of the total. (See Fig. 2)

In this Digest, we present the results of a questionnaire survey on the effectiveness of AIS (Automatic Identification System) together with the circumstances of accidents and case studies, for the prevention of collision accidents between vessels, especially small vessels, and summarize the key points for the prevention of the accidents.

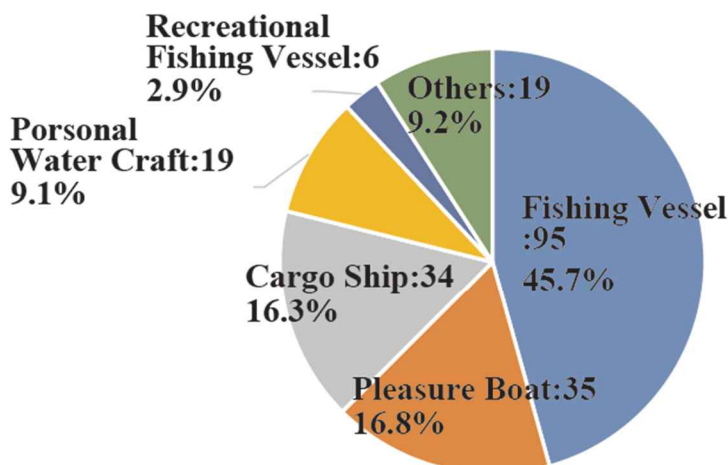


Figure 1 Number of vessels involved in collision accidents with fatalities or missing persons by vessel type

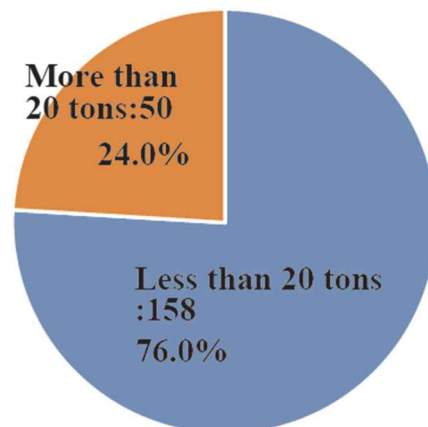


Figure 2 Number of vessels in collision accidents with fatalities or missing persons by gross tonnage