

### Early Detection of Obstacles

#### <Concept>

Use of collected information to assist early detection of obstacles

#### <Roles>

When a ship finds something on the sea, such as driftwood or whales, that may affect navigation, the ship informs shore-based organization of the findings. Shore-based organizations provide such information with other ships to invite attention.

#### <Benefits>

Ships can be aware of danger in advance and review navigation plan if necessary. Shore-based organizations can take appropriate action based on information received, such as removal of driftwood.

### Presentation of recommended routes to avoid danger

#### <Benefits>

Recommended route is determined and displayed based on the latest database concerning location and navigation plan of other ships, and various danger.

