# **Action Plan for prevention**

### dragging anchor

## 1 Before anchoring

- Predict the weather condition
  ※Predict the wind direction at the maximum, and anchor against the wind and wave.
- Extend the anchor cable
- \*Considering other vessels around you, you may extend the anchor cable.
- $\text{%In stormy weather(the wind speed is about 30m/s), the standard length of the anchor cable is$ L(m) = 4d(m)+145 d:depth of water
- •Grasp anchorage limit
- \*Grasp the wind speed of anchorage limit considering the bottom materials and the length of the anchor.
- ※If the wind speed is over anchorage limit,Stand by main engine and bow thruster.Change to two anchoring or use the steadying anchor.
- Adjust draft
  ※To deepen the draft.
- Adjust trim ※Trim by the bow as much as possible.

## 2 Anchor watch

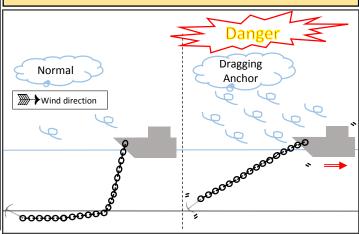
#### • Use the main engine, bow thruster

☆If you're likely to drag anchor, use main engine, bow thruster and turn your bow against the wind and wave.

#### Detect the dragging anchor early

 Observe the anchorage condition carefully with checking the position by GPS, radar and electronic chart in order to detect the dragging anchor early.
 There is a possibility of dragging anchor!

- When a vessel receive wind from one side after a vessel stop the periodic swing motion.
- •When a vessel damage extraordinary impact.
- When the anchor cable is being stretched.



### 3 In case the wind direction changes drastically

Anchor considering the wind direction

XIF the wind direction change drastically after dropping anchor, heave up anchor and drop anchor again against the present wind direction.

### 4 Treatment in the dragging anchor

Strong wind prevents you from heaving up anchor , you should change the anchoring method before the wind gets strong.

- Heave up anchor or drop anchor again
- Change of the anchoring method
  ※Change to two anchoring or use the steadying anchor.
- Heave-to

XIf it's determined to be danger with the anchor, heave up anchor and heave-to.

### JAPAN COAST GUARD

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