

Officer on Watch (OOW) is also in charge of the bridge team, which is there to support him in the navigation process. He is also responsible to ensure that the ship complies with COLREGS and all the orders of the master are followed with utmost safety under all conditions. The three main duties of an officer on watch (OOW) can very broadly, for the sake of understanding only, can be classified under:

Watch keeping

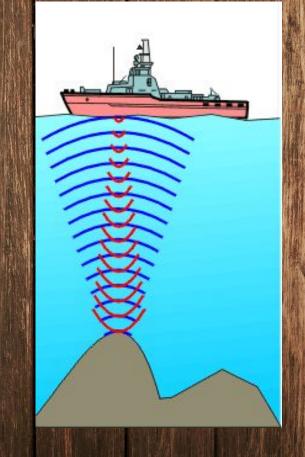


### Compare the compasses



# Check soundings by the echo sounder





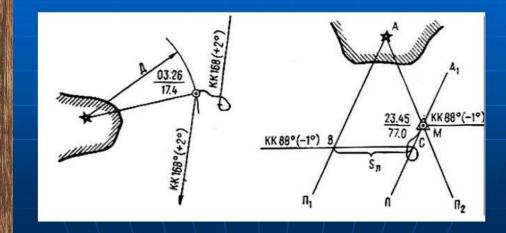
# Ensure that the lookout is alert





### Check the position





## Discussing with the outgoing OOW



## Read log entries



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## Draft

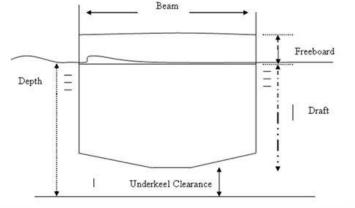
### Draft Overview

#### Shift Draft:

- Ship draft is the vertical distance between the keel and the waterline.
- Draft is used to estimate the weight of cargo on board, by calculating the total displacement of water and applying Archimedes' Principle.
- The current method of draft measurement is to visually inspect the waterline markings on the ship. This process is accurate up to 1"
- By improving draft measurement, the ship weight can be more accurately determined.

#### Design Specifications:

- 1/8<sup>th</sup> inch accuracy
- Economical
- Portable
- Wireless
- Reduce risk to personnel
- Non-permanent mounting





## Gyro and its error



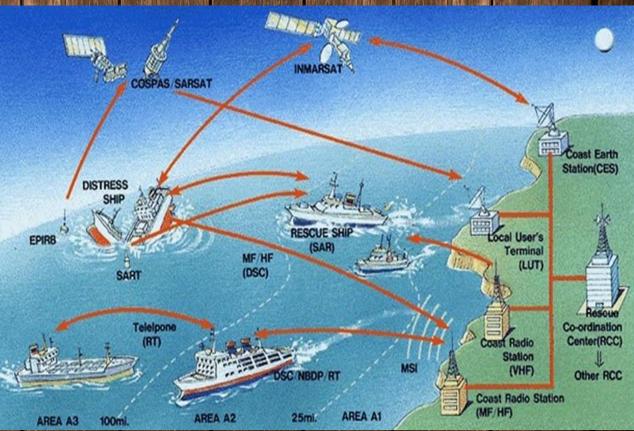
### Gyro Error

- Error the difference between the true bearing and the Gyro reading
- Expressed in degrees East or degrees West Gyro Least, error East Gyro Best, error West

Gyro Bearing + East Error = True Bearing



### GMDSS



### **General rounds of the ship**





### That's all, thanks for watching. В создании участвовали Стуга и Сиротинин

