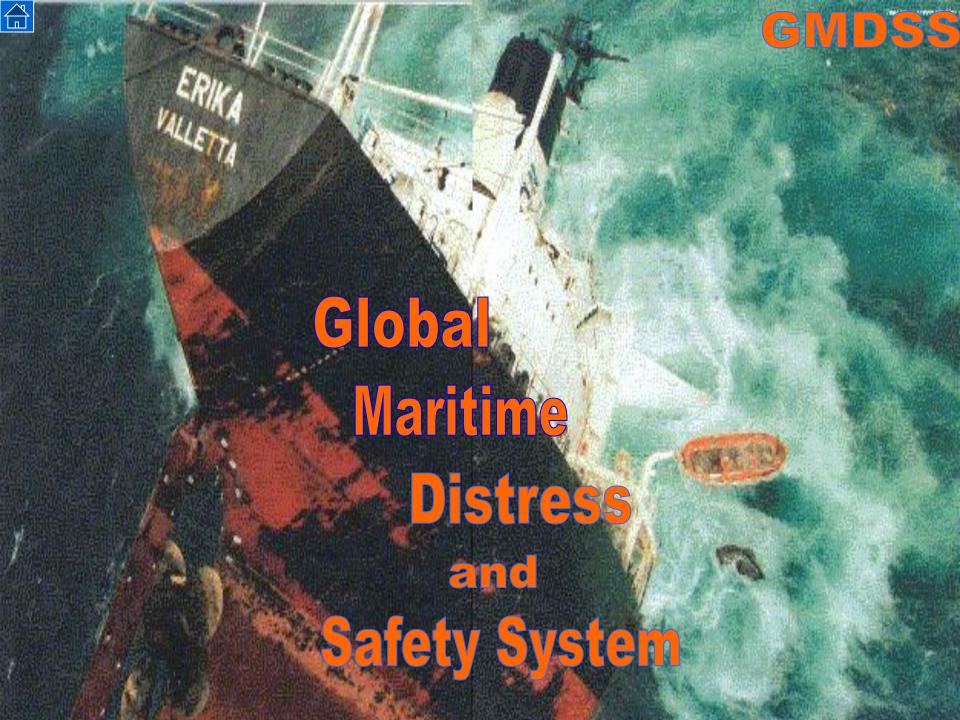




## CONTENTS

- Introduction
- Distress-, Urgency- and Safety communication
- Search & Rescue communication
- Routine communication
- Ship Reporting System (MAREP/POSREP)
- POSREP-practice
- Role plays: Distress-, Urgency- and Safety messages
- Role plays: routine communication



**G.M.D.S.S.** VHF/MF/HF Ch.16 simplex DSC INMARSAT COSPAS/SARSAT IMO SOLAS navtex EGC NAVWNG EPIRB TELEX A1-A2-A3-A4 areas SART SMCP (SMV) IMLP SAR VTS mmsi MID etc. etc.

#### **VHF / DSC - COMMUNICATION**

Non-GMDSS vessels (e.g. small vessels)

**GMDSS** vessels

Announcement & acknowledgement on VHF

Announcement & acknowledgement by Digital Selective Calling (DSC)

Message by conversation on VHF

## Priorities

Distress "Mayday"

Urgency "Pan Pan"

Safety

"SECURITE"

Routine

# . DISTRESS ALERT: "Urgent! There is serious and immediate danger".

. URGENCY MESSAGE: "Urgent!
There is serious danger!"



Ship's radio-room.



. SAFETY MESSAGE:

"Imminent risk for navigation".

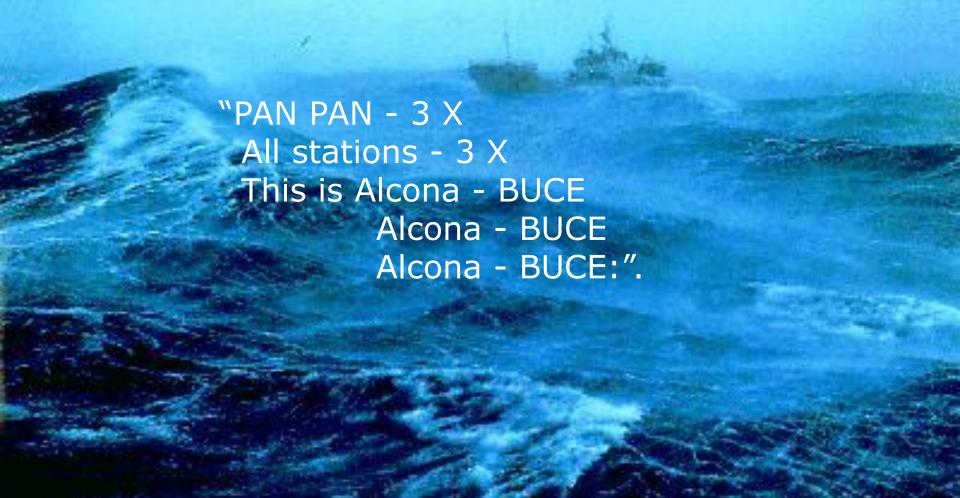
. ROUTINE MESSAGE:

"... to ensure safe navigation".



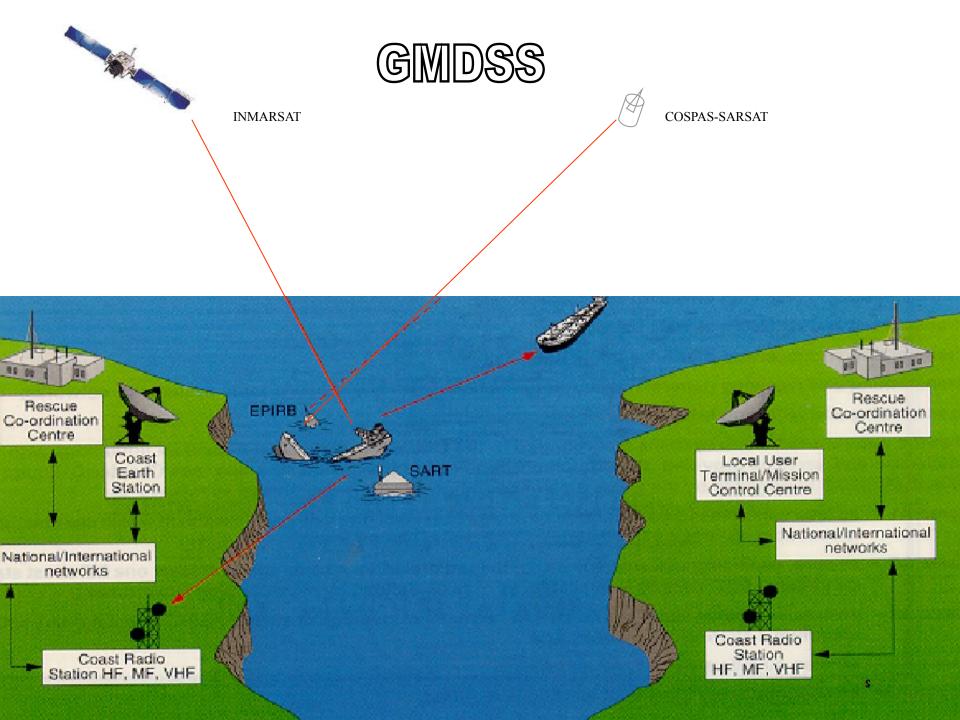


## Urgency message announcement by non-GMDSS vessel:



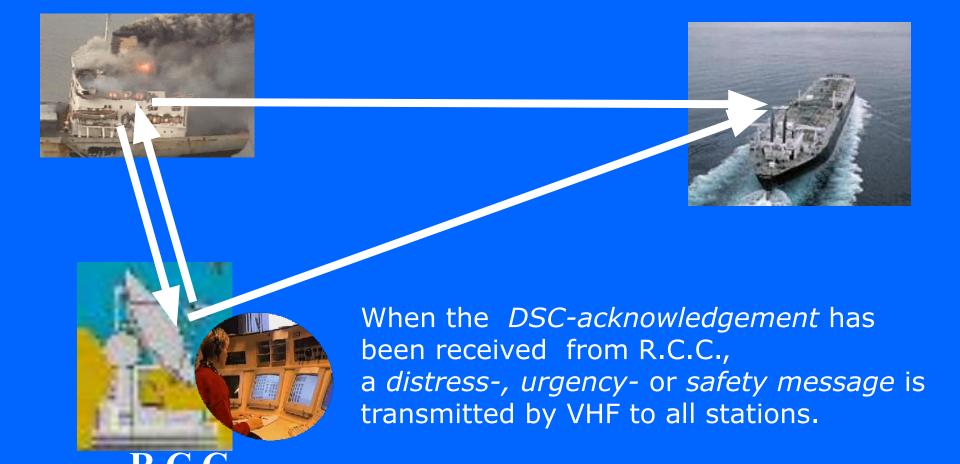
## Safety message announcement by non-GMDSS vessel:

"SECURITE - 3 X
All stations - 3 X
This is Anticosti - V8SH
Anticosti - V8SH
Anticosti - V8SH:".



#### DSC-announcement (GMDSS - vessels).

A <u>Distress Alert</u>, <u>Urgency Message</u> or <u>Safety Message</u> is <u>announced</u> to <u>Rescue Coordination Centre</u> and all vessels in the <u>vicinity</u> through "<u>Digital Selective Calling</u>".



### Received mayday

If the master of a vessel that has received an <u>acknowledgement</u> decides that he is able to assist, he must transmit a *RECEIVED MAYDAY* to the vessel in distress.



Pearl Head - VRSE



Ocean Queen - IRSL



"MAYDAY Pearl Head (3X) - VRSE This is Ocean Queen (3X) - IRSL RECEIVED MAYDAY".

R.C.C.

### Supplementary received-mayday



Pearl Head - VRSE

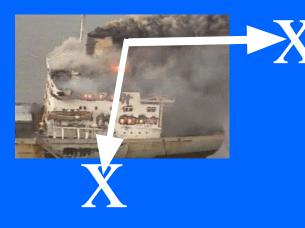


Ocean Queen - IRSL

Any vessel that is "able to assist "
(within "short range" of the distressed vessel)
must transmit a "supplementary received-mayday"
to the vessel in distress.

Any ship, knowing that a vessel in distress is not able to transmit a distress alert, must transmit a distress alert relay.

Pearl Head - VRSE





Ocean Queen -IRSL



R.C.C. Aveiro Radio

Distress relay on VHF ("mayday relay")

## Message on VHF

After announcement by DSC or VHF, communication by conversation begins on VHF.

Distress -, urgency - and safety -messages on VHF must contain:

- The vessel's identification:
  9-digit Maritime Mobile Service Identity-Code
  (MMSI-Code), vessel's name and Call Sign;
- . position of the vessel;
- . the nature of distress or danger;
- . number of persons on board;
- . the assistance that is required;
- . any other important information.

#### when things go wrong.....



### MAYDAY on VHF...



(CLICK)

"Coastal response..."



(CLICK)

#### MAYDAY MAYDAY MAYDAY

This is Pearl Head - Pearl Head - Pearl Head Victor Romeo Sierra Echo two three five - seven eight six - zero zero zero

#### **MAYDAY**

Pearl Head Victor Romeo -- Sierra Echo - two three five - seven eight six - zero zero zero

My position: three eight degrees one zero minutes North / zero one eight degrees one zero minutes East.

I am on fire: fire is in engine room and number-two hold. Vessel is sinking.

Crew must abandon vessel.

I require assistance.

Number of crew on board: one eight; number of injured persons: eight;

number of casualties: two.

Over".



distress message



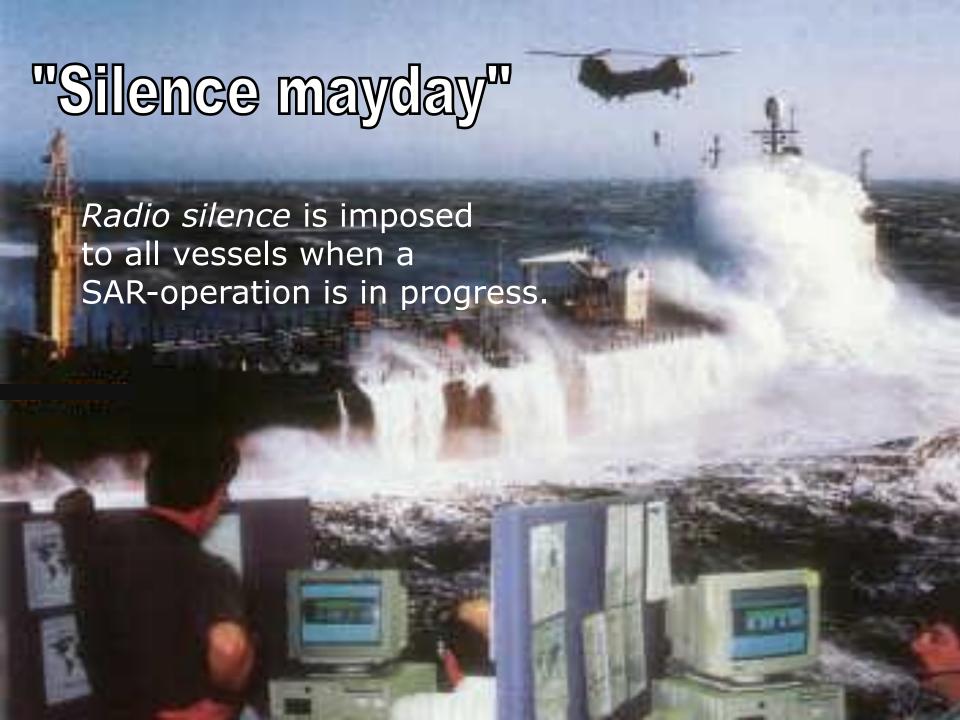
"Securite, securite; all stations, all stations, all stations. This is 426 477 000 - tanker Vermont - CAPK in posn. bearing 259 degr. from Falls Light, distance 1.5 miles;

time: August 6 - 1645 UTC.

Information: Buoy FL-1 in position 259 degrees from Falls Light, distance 2 miles, missing. OUT"









### **Situation Report (SITREP) - short form**

- Priority;	DISTRESS
- Date and Time;	September twelve time: 13.40 UTC;
- From RCC: - To:	San Juan Rescue Co-ordination Centre; All ships in vicinity of position 37 degr. 15 min. N / 016 degr. 10 min. E;
- SAR SITREP number	Search and Rescue Situation Report number one;
<ul> <li>Identity of casualty (Name, call sign, Flagstate)</li> </ul>	211 687 000 Pearl Head-VRSE Bulgarian registration
- Position (Latitude / longitude)	In position 37 degr. 15 min. N / 016 degr. 10 min. E;
- Situation: Message: Date and time;	Distress; September twelve 13.43 hrs. UTC
Nature of Distress;	Pearl Head on fire;
- Number of Persons at risk;	16
- Assistance that is required;	Fire fighting assistance and SAR.
- Co-ordinating Centre:	San Juan Rescue Co-ordination Centre.

## Search and Rescue (SAR)



M.V. Pearl Head in distress.



A Situation Report (SITREP) is transmitted by the *OSC* to inform the SAR-Mission Co-ordinator (*SMC*) at *RCC*.







## Routine communication

ship to coastal station

intership

intraship

### Announcement (by non-GMDSS vessels).

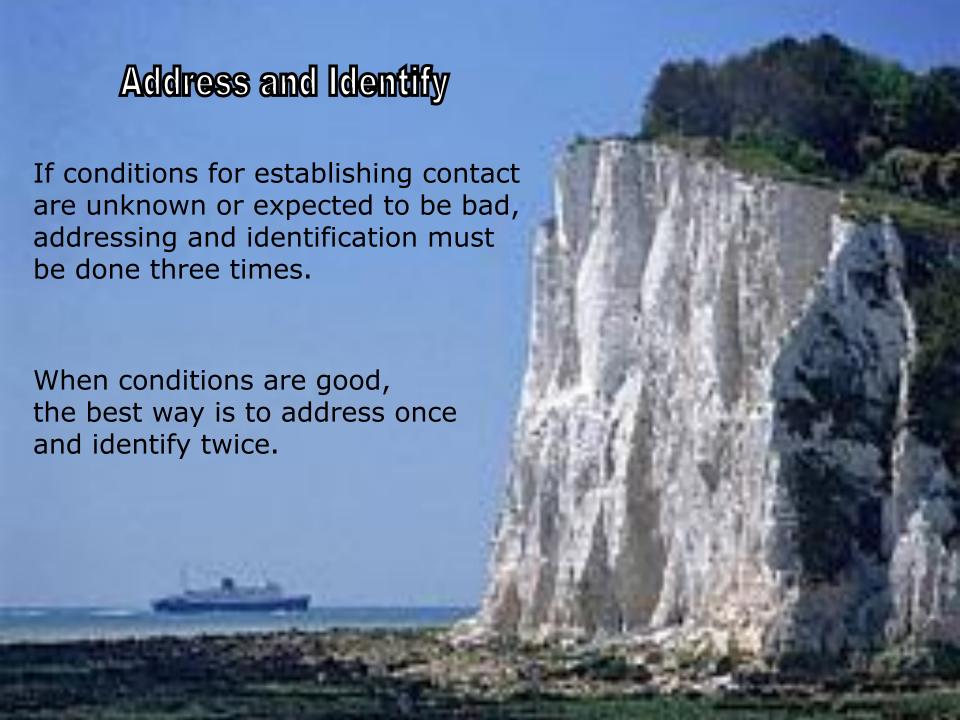
Intership communication and communication between ship and coastal station is announced on VHF.

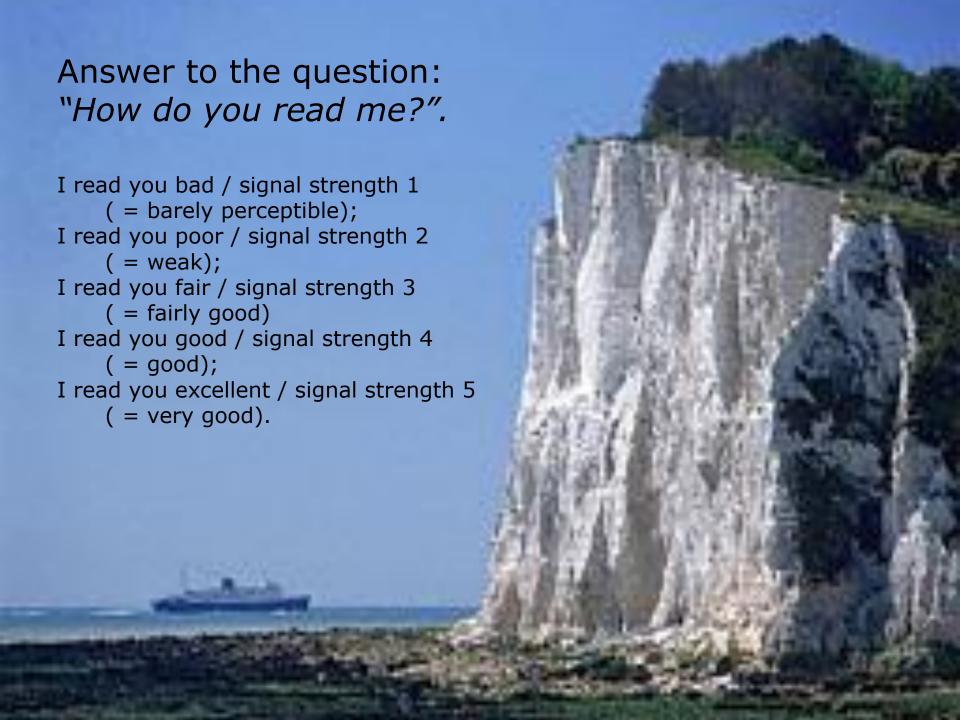


M.V. Anticosti - V8SH



"Address" and "Identify"







### DSC-announcement (GMDSS - vessels).

Intership communication and communication between ship and coastal station is announced through Digital Selective Calling.





When the *DSC-acknowledgement* has been received, communication by VHF will begin.

## communication

### **REMEMBER:**

Always

ADDRESS AND IDENTIFY

after you have heard the word

"OVER".





#### "Mistake .....correction"



"Mistake ..... correction"

is used when incorrect information has been given.

### Repeat

"Repeat" (or "I say again") is used when an *important* message or part of a messages is repeated.

### "Say again"

"Say again" is used when a message or part of a message has not been clearly understood.

### SMCP

In VHF-communication the IMO <u>Standard Marine Communication Phrases</u> must always be used to keep the conversation short.





# IMO Ship Reporting System

Coastal stations often ask for a <u>MARITIME</u> and <u>POSITION REPORT</u> of your ship. For this <u>MAREP / POSREP</u> the <u>Standard Marine Alphabet</u> is used.

#### MAREP / POSREP

<u>ALFA</u>	- VESSEL'S NAME + CALL SIGN;	<u>PAPA</u>	- CARGO
<b>BRAVO</b>	- DAY OF MONTH AND TIME		(TYPE AND QUANTITY);
	(UTC / Z / ZONE / LOCAL TIME);	<u>QUEBEC</u>	- ANY DEFECTS OR
<u>CHARLIE</u>	- POSITION		LIMITATION;
	(LONGITUDE / LATITUDE);	ROMEO	- ANY POLLUTANTS OR
DELTA	- POSITION (AS BEARING AND		DANGEROUS GOODS;
	DISTANCE FROM FIXED POINT.)	; SIERRA	- WEATHER CONDITIONS;
<u>ECHO</u>	- TRUE COURSE;	TANGO	- SHIP'S REPRESENTATIVE
<u>FOXTROT</u>	- SPEED (IN KNOTS);		OR OWNER;
GOLF	- LAST PORT OF DEPARTURE;	UNIFORM	- SIZE AND TYPE OF THE
HOTEL	- TIME AND POINT OF ENTRY	VESSEL;	
	INTO THE SYSTEM;	VICTOR	- MEDICAL PERSONEL;
<u>INDIA</u>	- DESTINATION (+ ETA);	WHISKEY	- NUMBER OF PERSONS ON
JULIET	- DEEP SEA OR LOCAL PILOT		BOARD;
	ON BOARD;	<u>X-RAY</u>	- ANY OTHER USEFUL
KILO	- TIME OF EXIT FROM THE		INFORMATION.
	SYSTEM;	YANKEE	- REQUEST TO RELAY
LIMA	- INTENDED TRACK;		REPORT TO OTHER
<u>MIKE</u>	- VHF-CHANNELS GUARDED;	SYSTEM (E.C	G. AMVER);
NOVEMBER	- TIME OF NEXT REPORT;	ZULU	- END OF REPORT.

OSCAR

- DRAFT;



A "Delta-position" is a bearing and distance-indication from a fixed point. It is *preceded* by the word "bearing".

#### Position:

"Bearing 158 degr. from the Bassurelle, distance 1.5 miles".



### POSREP-practice

- 29 DEGR. 58 MIN. N / 013 DEGR. 12 MIN. E ON MARCH 31 2100 UTC.
- 134 DEGR. FROM BUOY NHR-SE, DISTANCE 6.5 MILES ON JANUARY 13 10.25 LOCAL TIME.
- 159 DEGR. FROM FALLS LIGHT, DISTANCE 2.7 MILES ON MAY 26 1925 ZONE TIME.
- 58 DEGR. 57 MIN. N / 013 DEGR. 5 MIN. W ON JANUARY 31 05.25 UTC.
- 178 DEGR. FROM ROYAL SOVEREIGN LIGHTHOUSE, DISTANCE 2.1 MILES ON AUGUST 5 12.00 UTC.
- 250 DEGR. FROM BUOY CA 4, DISTANCE 12.6 MILES ON DECEMBER 31 0000 UTC.



### Role Plays

Distress,
Urgency and
Safety.

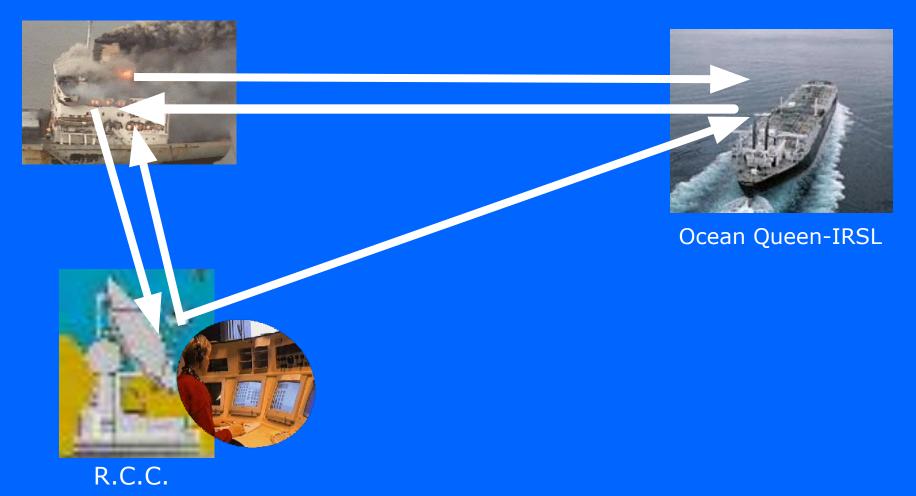
communication:

#### 211 687 000 Pearl Head - VRSE is on fire.



#### "Received Mayday" on VHF after announcement and acknowledgement.

#### Pearl Head-VRSE



#### "Supplementary Received-Mayday" on VHF

(after "Received-Mayday" messages).



Pearl Head - VRSE



Ocean Queen - IRSL

Ocean Queen informs Pearl Head: position 045 degrees from distressed vessel, distance 3 miles – her course: 035 degrees at 12 knots. ETA distress position within 15 minutes.

#### Pearl Head transmits mayday on VHF.

235 786 000 - Pearl Head VRSE in position 38 degrees 10 min. N / 018 degrees 10 min. E; transmits a distress message on VHF. Her engine room and no. 2 hold are on fire. The vessel is sinking. Crew are abandoning ship. Assistance is required. There are 18 crew members on board. Eight of them have been injured two members were killed.



MMSI code 426 477 000 - Tanker Vermont CAPK in posn. 259 degr. from Falls Light, distance 1.5 miles, time: August 6 - 1645 UTC, has detected that buoy FL-1 in position 259 degrees from Falls Light, distance 2 miles, is missing.







PORTISHEAD RADIO



M.V. STELLA MARIS - UB6379







M.V. STELLA MARIS - UB6379

Address & Identify



Diamond Star VYNG



Maas Approach

Maas Approach wants to know

- Diamond Star's present position, course and speed;
- her ETA in position of no. 1 Euro Buoy;
- her draft fore and aft;
- her freeboard and airdraft.



Diamond Star VYNG



Maas Approach

Her position is bearing 045 degrees from no. 1 Euro Buoy at a distance of 12 miles, course 052 degrees true at 7 knots; ETA no. 1 Euro Buoy is 1145 hrs. UTC; draft fore: 5.5 m - draft aft: 6 m. freeboard of 6.8 metres; airdraft of 18.5 metres.

Maas Approach now indicates that Diamond Star may enter traffic lane at 1245 hrs. UTC;

Maas Approach warns for a heavy swell in the fairway;

Diamond Star must maintain present course and reduce her speed to 4 knots.

Vessel astern is going to overtake her to the West.



Diamond Star VYNG

Diamond Star confirms.



Maas Approach

Maas Approach reports that Diamond Star's berth is ready and that she will berth at 1300 hrs. UTC. Request to remain stand by on channel 13.



Diamond Star VYNG





Maas Approach

## Intership VHF-Communication: role-plays

communication

#### Calling unknown vessel

Non-GMDSS vessels (e.g. small vessels)

Announcement & acknowledgement on VHF channel 13 or 16

**GMDSS** vessels



Announcement & acknowledgement by DSC.

Message by conversation on VHF-working channel

#### Calling unknown vessel

#### Announcement on channel 13 or 16:

```
"All vessels (3X)
Calling unknown vessel in position ......
This is ....... (name of the vessel 3X + callsign)
HOW DO YOU READ ME? - OVER"
or in case of an urgent message
"(MESSAGE) ......"
```

Acknowledgement (ch. 13 or 16); message on working channel.

#### Calling unknown vessel

#### Announcement on DSC

With the *Automatic Identification System* (AIS) the MMSI-code of an unknown vessel can be read from the radar display.



Address & Identify on VHF:



Unknown vessel (Great Yarmouth Princess - GBCH) posn. 052 degr. from Bondpier distance 0.5 miles

acknowledges. (message on ch.6.)



Seaborne - IRSL

Seaborne is going to overtake Great Yarmouth Princess on her port side course: 250 degr.;

speed: 8 knots.



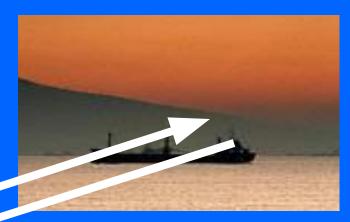
Great Yarmouth Princess - GBCH



Seaborne - IRSL

Great Yarmouth Princess confirms and closes.

Amsteldijk is at anchor 2.5 miles W of Bondpier; Amsteldijk asks unknown ship about her intentions.



Unknown vessel
2 miles N of the breakwater
(Ice Flower OVRR)

.....answers



Amsteldijk - PHSA

that she will stand on.

urgent message

Amsteldijk indicates that Ice Flower is on a collision course. She must alter course to port-side.



Ice Flower - OVRR



Amsteldijk - PHSA

..... confirms and closes.



Amsteldijk requests pilotage.

Address & Identify





Amsteldijk requests pilot service. Her position is 225 degr. from Bassurelle, distance 3 miles.

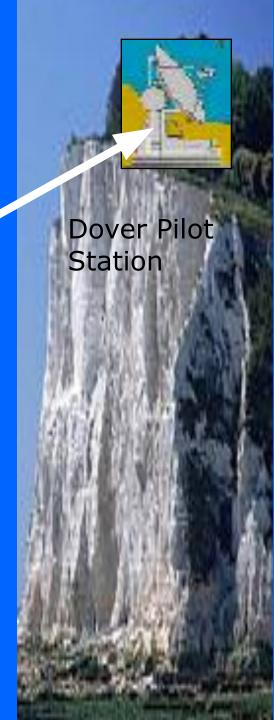




Answers that pilotage has been suspended and will be resumed at 1200 UTC. Pilot boat will reach her at 1345 UTC. She must anchor in her present position.

Amsteldijk confirms and closes.







Pilot-tender

Address & Identify





Pilot-tender

Amsteldijk confirms and closes.

Pilot reports that he is underway (ETA-Amsteldijk: 1400 UTC). Amsteldijk must heave anchor and proceed on course 064 degr. true at 6 kn.; make lee on starboard and rig pilot ladder.





### FINISHED

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