

This Annual Report is posted on our website: www.gov.uk/maib

Marine Accident Investigation Branch First Floor, Spring Place, 105 Commercial Road Southampton, United Kingdom

## MAIB ANNUAL REPORT 2017

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2017 was a typically busy year for the Branch, not only in terms of its investigation workload but also in respect of its effort to promulgate the safety message, build relationships with stakeholders and train its staff. Included in this report is a selection of the diary entries for MAIB staff, which I hope will provide a flavour of the diverse nature of the work they have been involved with during the year.
There were 1232 accidents reported ( 1190 in 2016) and 21 investigations were started (29 in 2016). The decrease in the number of deployments to marine accidents was due to an unusually quiet start to 2017, which saw MAIB inspectors being deployed on only two occasions between January and April.
During May and June there were two further deployments to attend accidents involving UK registered vessels trading in the Arabian Gulf.
Our workload began to increase significantly from 1 July, when the bulk carrier Huayang Endeavour collided with the tanker Seafrontier in the Dover Strait separation scheme. MAIB teams were then deployed on seven occasions up to the end of September and a further nine investigations were launched during the final quarter of 2017. The majority of these accidents occurred in UK waters but my inspectors were also required to deploy overseas to the west coast of the United States (twice), France, South Africa and Australia.
Twenty-six investigation reports, two Safety Digests and one Safety Bulletin were published in 2017. The average time taken to publish our reports was 11.7 months compared with 10.8 months in 2016. However, the period saw the publication of reports on a number of complex investigations. The underlying average for non-complex investigations (i.e. when the Branch does not have to conduct extensive testing, salvage operations or be reliant for its output on the contribution of third parties) was 10.6 months. It remains the collective goal of the Branch to drive down the average time taken to produce its reports to below 10 months.
For the eighth successive year there were no UK merchant vessels of >100gt lost. The overall accident rate for UK merchant vessels $>100 \mathrm{gt} \mathrm{has} \mathrm{fallen} \mathrm{to} 75$ per 1000 vessels from 78 per 1000 vessels in 2016. There was no loss of life within the crews of UK merchant vessels $>100 \mathrm{gt}$ during 2017. Two UK registered small vessels (<100gt), both commercially operated sailing yachts, were lost in 2017. Two small vessels were also lost in 2016.
One foreign flag vessel, a French registered sailing yacht, was lost when trading in UK waters and there were two reported deaths of crew working on foreign flag vessels trading in UK waters.

## RECOMMENDATIONS

Fifty-six recommendations were issued during 2017 to 62 addressees. $98.4 \%$ of the recommendations were accepted. This compares with $90.6 \%$ in 2016.
No recommendations were rejected and one recommendation was partially accepted (Rec.2017/151).
Of the 56 recommendations issued between 2007 and 2016 that were accepted but are still open, 36 ( $64 \%$ ) of these were addressed to the Maritime and Coastguard Agency (MCA). In my last Annual Report I expressed concern at the number of recommendations

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that had not been closed off by the MCA. Since that time, more effort has been made by the Agency to progress commitments made as long ago as 2007. Better dialogue and more focus on the task has delivered a noticeable improvement in the clear-up rate, which I hope will be maintained.

## FISHING SAFETY

Six commercial fishing vessels were lost in 2017 compared with 13 in 2016. The loss rate of fishing vessels is the lowest ever recorded by the MAIB, at $0.11 \%$ of the fleet.

The number of injuries to fishing vessel crew reported to the MAIB in 2017 is also at an alltime low (32).
Five fishermen lost their lives in 2017 compared with nine lives lost in 2016.
From the above statistics it might be reasonable to assume that the safety record of commercially operated fishing vessels is improving. The data collected by the MAIB for boats lost is robust and the number lost each year has certainly been reducing. However, there have been concerns expressed that many of the injuries that fishing vessel crew suffer go unreported. To test this, the MAIB examined personal injury data supplied by one insurance provider, the Scottish Boatowners Mutual Insurance Association, covering the period 2008-2016. The data set contained 113 injuries and fatalities, 98 of which were reportable to the MAIB. The MAIB's data set for the same period held details of all the fatalities (9) but only $13.5 \%$ of the reportable injuries to fishing vessel crew recorded by Scottish Boatowners. This would seem to confirm that many accidents that result in personal injury to fishermen do not get reported to the authorities, and it is tempting to conclude that the safety record of the fishing industry may not be improving at all.
My own discussions with members of the fishermen's associations, the Royal National Lifeboat Institution (RNLI), the Fishing Industry Safety Group (FISG) and the MCA, plus the evidence provided by 176 accidents involving fishing vessels that have been investigated by the MAIB since I joined the Branch in 2004 suggest that the safety record of the UK registered fishing fleet is improving, but very slowly. The glacial nature of the fishing industry's progress towards improved safety has perhaps been the only source of real disappointment for me during my time as the Chief Inspector of Marine Accidents. There are many organisations and individuals who are working hard to educate fishermen on the benefits of, for example, the wearing of Personal Flotation Devices (PFDs) on the open deck, or the basic principles of stability. However, these laudable efforts do not prevent some owners from providing their crews with welfare and working environments that would not be allowed in a UK factory ashore. Excessive working hours, poorly trained crews, inadequate accommodation, dangerous machinery and working practices provide the perfect mix for accidents to occur.
Following a period of consultation, implementation of the International Labour Organization (ILO) Work in Fishing Convention 2007 (ILO 188) into UK Law is expected to be completed by the end of 2018. ILO 188 entitles all fishermen to written terms and conditions of employment (a fisherman's work agreement), decent accommodation and food, medical care, regulated working time, repatriation, social protection and health and safety on board. It also provides minimum standards relating to medical fitness.
ILO 188 standards will apply to all fishermen working on commercial fishing vessels of any size. They apply equally to employed fishermen and non-employed (share) fishermen, removing a legal impediment that has prevented the application of robust Health and Safety legislation to much of the UK registered fleet. In my view, implementation of this legislation cannot come quickly enough.

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## FINANCE

The annual report deals principally with the calendar year 2017. However, for ease of reference, the figures below are for the financial year 2017/18, which ended on 31 March 2018. The MAIB's funding from the Department for Transport is provided on this basis, and this complies with the Government's business planning programme.

| $£ 000$ s | $2017 / 18$ Budget | 2017/18 Outturn |
| ---: | ---: | ---: |
| Costs - Pay | 2803 | 2893 |
| Costs - Non Pay | 1167 | 879 |
| Totals | $\mathbf{3 9 7 0}$ | $\mathbf{3 7 7 2}$ |

The budget allocation for Pay costs assumed that a $5 \%$ saving due to staff churn would be realised. However, the Branch was fully staffed throughout the period and this was largely responsible for the overspend of $£ 90 \mathrm{k}$. However, proceeds from the sale of the salvaged FV Louisa by the Receiver of Wreck, together with reduced operational costs, resulted in an overall underspend against budget of $£ 198 \mathrm{k}$.

## AND FINALLY...

This is my last Annual Report. I will leave the MAIB at the end of June after almost 8 years as Chief Inspector and 14 years with the Branch. It has undoubtedly been one of the happiest and most fulfilling periods of a 47-year career in the maritime industry. The MAIB is considered by many to be one of the leading transport safety investigation bodies in the world. This reputation has been hard won and is entirely due to the commitment, effort and enthusiasm of my amazing team, who have never failed to deliver despite the unrelenting grind of working with death and tragedy. I take this opportunity to thank them all for the hard work and support they have given during my watch and I wish them and my successor good fortune for the future.


## Steve Clinch

Chief Inspector of Marine Accidents

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## PART 1: 2017 OVERVIEW

recreational
engine Non-UK sustained traffic entering powerboats non-commercial shore UK-flagged serious Unintentional North occupational cargo carrier Damage
 rescued Aug O north-east $\quad$ fell Chart potential cranes strait details Cr Sing reported crewman safely passage sinking Merchant ro-ro $\underset{\leftarrow}{\rightleftarrows} \circlearrowleft$ incidents Sea privately Collision Fire $\sum$ east SOUth capsize
 general o 0
 driver


## 2017: OVERVIEW OF CASUALTY REPORTS TO MAIB

In 2017, 1232 accidents (casualties and incidents ${ }^{1}$ ) to UK vessels or in UK coastal waters were reported to the MAIB. These involved 1352 vessels.

42 of these accidents involved only non-commercial vessels, 499 were occupational accidents that did not involve any actual or potential casualty to a vessel.
There were 708 accidents involving 779 commercial vessels that involved actual or potential casualties to vessels. These are broken down in the following overview:

Chart 1: UK accidents - commercial vessels


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[^0]Chart 2: UK merchant vessels of 100 gt or more


Chart 3: UK merchant vessels of under 100gt


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Chart 4: UK fishing vessels


Chart 5: Non-UK commercial vessels - in UK 12 mile waters


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2017: SUMMARY OF INVESTIGATIONS STARTED

| Date of occurrence | Occurrence details |
| :---: | :---: |
| 19 Jan* | Auxiliary boiler explosion on the Japan registered container ship Manhattan Bridge at Felixstowe container terminal resulting in one fatality and one serious injury. <br> *MAIB deployed inspectors to Felixstowe to conduct an initial accident site investigation. Its findings prompted the MAIB to publish a safety bulletin designed to raise awareness of a safety issue that might be linked to the initial boiler flame failures. The Japan Transport Safety Board (JTSB) conducted the full investigation and its report was subsquently published in accordance with the International Maritime Organization's (IMO) Casualty Investigation Code. |
| 3 Mar | The flooding and sinking of the fishing vessel Ocean Way (LK207) approximately 22 nm north-east of Lerwick, Shetland Islands. All five crew were rescued from the sea. |
| 4 May | The UK registered container ship CMA CGM Centaurus contacted the quay while berthing at Jebel Ali, United Arab Emirates. Damage was sustained to the ship, the quay and two shore cranes. |
| 10 Jun | Grounding of the UK registered bulk carrier Ocean Prefect while entering the port Umm Al Qaywayn, United Arab Emirates. |
| 1 Jul | Collision between the bulk carrier Huayang Endeavour and the tanker Seafrontier in the Dover Strait traffic separation scheme. Both vessels were Hong Kong registered. |
| 2 Jul | Collision between two F4 powerboats on Stewartby Lake, Bedfordshire resulting in the capsize of one boat and serious injury to the driver. |
| 17 Jul* | Unintentional releases of the fire suppressant system's $\mathrm{CO}_{2}$ gas into the $\mathrm{CO}_{2}$ room on the ro-ro passenger vessel Red Eagle as it was on passage between Cowes, Isle of Wight and Southampton. <br> *A similiar accident on 8 June 2016 on the UK-flagged ro-ro cargo vessel Eddystone while on passage in the Red Sea has been included in the investigation. |
| 6 Aug | Accident between privately owned recreational craft James 2 and UK registered fishing vessel Vertrouwen (DS11) resulting in the sinking and loss of three lives from James 2, about 1.5 miles south of Shoreham Harbour. |
| 7 Sep | Fire in the port engine space of the 16 m crew transfer vessel Windcat 8 operating in the Lincs Wind Farm in the North Sea off Skegness. |
| 12 Sep | Fire in the forward engine room of the passenger ro-ro ferry Wight Sky as it was on passage between Lymington and Yarmouth, Isle of Wight, resulting in injury to the chief engineer. |

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| Date of occurrence | Occurrence details |
| :---: | :---: |
| 23 Sep | Fatal accident to crew member of the fishing vessel Constant Friend (N83) while alongside at Kilkeel, Northern Ireland. |
| 26 Sep | Capsize of the 9.9 m fishing vessel Solstice (PH199) about 9 miles south of Plymouth harbour with the loss of one life. |
| 8 Oct | Grounding of the Barbados registered general cargo ship Islay Trader off Margate, Kent. |
| 10 Oct | Grounding of the cargo vessel Ruyter on Rathlin Island, Northern Ireland. |
| 30 Oct | Loss overboard of 42 containers from the container ship Ever Smart in the Pacific Ocean, 700 nm east of Japan. |
| 31 Oct | Sailing yacht CV24 grounded during the Clipper Round the World Yacht Race, Western Cape Peninsula, South Africa. The crew were evacuated safely but the yacht could not be salvaged. |
| 6 Nov | Fatality of a crewman who fell overboard from the 8m fishing vessel Enterprise (SH323) in the North Sea off Scarborough, North Yorkshire. |
| 12 Nov | Fatal accident to crew member of the fishing vessel Illustris (B119) while alongside at Royal Quays, North Shields, Tyne and Wear. |
| 18 Nov | Fatal man overboard from the sailing yacht CV30 during the Clipper Round the World Race while racing in the Indian Ocean between Cape Town, South Africa and Fremantle, Australia. |
| 20 Nov | Fatal man overboard from the single-handed creel fishing vessel Varuna (BRD684) south of Applecross, on the west coast of Scotland. |
| 10 Dec | Grounding of the UK-flagged ro-ro passenger ship Pride of Kent in Calais, France. |

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Key - ongoing investigation activity
ODeployable accident occurs \start of draft investigation report's 30 -day consultation period

## $\underset{\sim}{2}$

 Investigation report published

## APRIL

3: Safety Digest $1 / 17$ issued 3: Member of the US Coastguard joins MAIB on a 6 -week secondment
6: Presentation at the Manchester Cruising Association

10: Lecture an marine casualty investigation at the International Maritime Safety Security and Environment Academy, Genoa, Italy

19: Business Plan published

25: Attendance at Inquest, Bristol 25: Presentation at Man Dverboard Prevention and Recavery Workshop, Southampton 25: Visit to MAIB by Group Captain of the Defence Accident Investigation Branch
25-27: Attendance at the Chartered Institute of Ergonomics and Human Factors Annual Conference, Daventry

7-9: MAIB technicians support the Greek Hellenic Bureau for Marine Casualties Investigation in the recovery of data from MV Cabrera's voyage data recorder

22: Presentation for the Ministry of Defence's maritime safety forum, Bristol
22: Attendance at the UK National Disaster Victim Identification Unit's national conference, Landan

27-3 Mar: Attendance at the Investigating Human Performance course, Cranfield University

28: Presentation at the Sunsail Skippers Seminar, Port Solent

8-26: Attendance at Fundamentals of Accident Investigation course, Cranfield University
II: Attendance at FIT test operation ${ }^{2}$ training cuurse, Bristol

15: Meeting to discuss car carrier stability at Southamptan Institute
18: Role of MAIB and case studies for the Nigerian Maritime Safety Administration at Southampton Solent University

25: Meeting on the Rule of the Road at North West Nautical Institute, Fleetwond
26-27: Exhibiting at Skipper Expo Int. Aberdeen

3D: Discussion about MAIB safety concerns at a Trinity House Strategy Day, Londan

## 1: Presentation at the Channe

 Sailing Club, Ashtead4: Presentation and Hoegh पsaka case study at meeting of Solent Sea Rescue Drganisations, Cosport 6: 30th anniversary of the capsize of ro-ro ferry Herald of Free Enterprise with the loss of 193 lives

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## PART 2: RECOMMENDATIONS AND PUBLICATIONS



## INVESTIGATIONS PUBLISHED IN 2017 INCLUDING RECOMMENDATIONS ISSUED

The following pages list the accident investigation reports and safety bulletins published by the MAIB during 2017. Where the MAIB has issued safety recommendations following an investigation, the current status of the recommendation and any applicable comments made by the MAIB accompany the entry*.
Recommendations from previous years that remain open are also included on the following pages.
For details of abbreviations, acronyms and terms used in this section please refer to the Glossary on page 106.
*Status as of 31 March 2018

## BACKGROUND

Recommendations are a key element of MAIB investigations. They are issued to promulgate the lessons from accidents investigated by the MAIB, with the aim of improving the safety of life at sea and the avoidance of future accidents. The issue of a recommendation shall in no case create a presumption of blame or liability.
Following an investigation the MAIB will, normally, make a number of recommendations. These will be contained within the published report but will also be addressed in writing to the individuals or senior executives of organisations concerned. Urgent safety recommendations may also be made in Safety Bulletins that can be published at any stage of an investigation.
Recommendations are made to a variety of addressees who might have been involved in, or have an interest in, the accident. These may range from those organisations which have a wider role in the maritime community such as the Department for Transport (DfT), the MCA or an international organisation, through to commercial operators and vessel owners/operators.
It is required by the Merchant Shipping (Accident Reporting and Investigation) Regulations 2012 that the person or organisation to whom a recommendation is addressed, consider the recommendation, and reply to the Chief Inspector within 30 days on the plans to implement the recommendation or, if it is not going to be implemented, provide an explanation as to why not. The Regulations also require the Chief Inspector "to inform the Secretary of State of those matters" annually, and to make the matters publicly available. This Annual Report to the Secretary of State for Transport fulfils this requirement.

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## RECOMMENDATION RESPONSE STATISTICS 2017

56 recommendations were issued to $\mathbf{6 2}$ addressees in 2017. The percentage of all recommendations that are either accepted and implemented or accepted yet to be implemented is $\mathbf{9 8 . 4 \%}$.

| Year | Total* | Accepted Action |  | Partially Accepted | Rejected | No Response Received |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Implemented | Yet to be Implemented |  |  |  |
| 2017 | 62 | 33 | 28 | 1 | - | - |

*Total number of addressess

## RECOMMENDATION RESPONSE STATISTICS 2007 TO 2016

The chart below shows the number of recommendations issued under the closedloop system that remain outstanding as of May 2018. There are no outstanding recommendations from 2004-2006 and 2011-2012.


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SUMMARY OF 2017 PUBLICATIONS AND RECOMMENDATIONS ISSUED

|  | Vessel name(s) | Category | Publication date (2017) and report number | Page |
| :---: | :---: | :---: | :---: | :---: |
|  | Johanna C | Very Serious Marine Casualty | 12 January (No 1/2017) | 17 |
| $8$ | Toby Wallace | Very Serious Marine Casualty | 1 February (No 2/2017) | 17 |
|  | City of Rotterdam/ Primula Seaways | Serious Marine Casualty | 8 February (No 3/2017) | 19 |
|  | Petunia Seaways/ Peggotty | Very Serious Marine Casualty | 15 February (No 4/2017) | 20 |
| x | King Challenger | Very Serious Marine Casualty | $\begin{aligned} & 2 \text { March } \\ & \text { (No 5/2017) } \end{aligned}$ | 20 |
|  | Uriah Heep | Serious Marine Casualty | 6 April (No 6/2017) | 21 |
|  | CV21 | Very Serious Marine Casualties | $\begin{aligned} & 12 \text { April } \\ & \text { (No } 7 / 2017 \text { ) } \end{aligned}$ | 21 |
|  | Pauline Mary | Very Serious Marine Casualty | 4 May <br> (No 8/2017) | 23 |
|  | Love for Lydia | Very Serious Marine Casualty | 11 May (No 9/2017) | 24 |
|  | Osprey/Osprey II | Serious Marine Casualty | $\begin{aligned} & 18 \text { May } \\ & \text { (No 10/2017) } \end{aligned}$ | 25 |
|  | Royal Iris of the Mersey | Serious Marine Casualty | $\begin{aligned} & 25 \text { May } \\ & \text { (No 11/2017) } \end{aligned}$ | 26 |
|  | Ardent II | Very Serious Marine Casualty | 14 June (No 12/2017) | 27 |
|  | Zarga | Serious Marine Casualty | 15 June (No 13/2017) | 27 |
|  | Surprise | Serious Marine Casualty | $\begin{aligned} & 29 \text { June } \\ & \text { (No } \underline{14 / 2017)} \end{aligned}$ | 27 |
| Sxplisu | Manhattan Bridge | Very Serious Marine Casualty | 30 June - Safety bulletin (No SB1/2017) | 31 |
|  | Sea Harvester | Serious Marine Casualty | 6 July (No $15 / 2017$ ) | 31 |

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| Vessel name(s) |  | Category | Publication date (2017) and report number | Page |
| :---: | :---: | :---: | :---: | :---: |
|  | CMA CGM Simba/ Domingue | Very Serious Marine Casualty | $\begin{aligned} & 19 \text { July } \\ & \text { (No 16/2017) } \end{aligned}$ | 32 |
|  | Louisa | Very Serious Marine Casualty | 27 July <br> (No 17/2017) | 32 |
|  | Vasquez | Very Serious Marine Casualty | 10 August <br> (No 18/2017) | 34 |
|  | Transocean Winner/ ALP Forward | Serious Marine Casualty | 7 September (No 19/2017) | 35 |
|  | Hebrides | Serious Marine Casualty | 14 September (No $20 / 2017$ ) | 36 |
|  | Sunmi/Patrol | Very Serious Marine Casualty | $\begin{aligned} & 12 \text { October } \\ & \text { (No 21/2017) } \end{aligned}$ | 38 |
|  | Formula 4 powerboats | Serious Marime Casualty | $\mathrm{n} / \mathrm{a}$, recommendation issued pre-publication by letter① | 37 |
|  | Muros | Serious Marine Casualty | $\begin{aligned} & 19 \text { October } \\ & \text { (No 22/2017) } \end{aligned}$ | 38 |
|  | CMA CGM Vasco de Gama | Serious Marine Casualty | $\begin{aligned} & 25 \text { October } \\ & \text { (No 23/2017) } \end{aligned}$ | 39 |
|  | Typhoon Clipper/ Alison | Very Serious Marine Casualty | 2 November (No 24/2017) | 40 |
|  | Graig Rotterdam | Very Serious Marine Casualty | 9 November (No 25/2017) | 41 |
|  | CV24 | Very Serious Marine Casualty | $\mathrm{n} / \mathrm{a}$, recommendation issued pre-publication by letter ${ }^{(2)}$ | 42 |
|  | Karissa | Marine Incidents | $\mathrm{n} / \mathrm{a}$, recommendation issued pre-publication by letter ${ }^{(3)}$ | 42 |
| $I$ | Nortrader | Serious Marine Casualty | $\begin{aligned} & 7 \text { December } \\ & \text { (No 26/2017) } \end{aligned}$ | 43 |

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## Johanna C

General cargo vessel

## Report number:

1/2017
Accident date:
11/5/2016
Fatality during cargo operations at Songkhla, Thailand

## Safety lssues

- It was inherently unsafe and unnecessary to stand on top of the cargo while it was being lifted
- The sudden and unexpected movement of the cargo and/or its slings was possibly due to the slings slipping from their intended positions


Due to actions taken by the ship's managers, Carisbrooke Shipping Ltd and MCA, no recommendations were made.

## Toby Wallace

Ocean rowing boat

Report number:
2/2017
Accident date:
14/2/2016

## Fatal man overboard in the North Atlantic Ocean

## Safety Issues

- Rower washed overboard with no tether, lifejacket or PLB worn
- Insufficient safety standards and inadequate pre-race preparation carried out by crew
- Commercially operated ocean rowing boats are not regulated


```
No Recommendation(s) to: British Rowing/
Maritime and Coastguard Agency
```

101 Work together in order to assess the feasibility of developing means by which commercially operated ocean rowing boats can demonstrate equivalent safety standards to those required of other small vessels in commercial use for sport or pleasure.

British Rowing: Appropriate action planned:


## MAIB comment:

## An update from British Rowing has been requested.

MCA: Appropriate action planned:


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## No Recommendation(s) to: <br> British Rowing

102 Liaise with stakeholders to develop and promulgate a best practice guide or a code of practice for ocean rowing, taking into account, inter alia:

- Boat design, construction and stability
- Minimum training requirements
- Minimum equipment requirements
- Onboard procedures
- Shore-based and seaborne support.



## MAIB comment:

An update from British Rowing has been requested.
No Recommendation(s) to: Oceanus Rowing Limited
103 Review its risk assessments for the conduct of future ocean crossings and take measures as necessary to ensure its crews are appropriately fit, trained and competent, and the necessary equipment, training and procedures are in place to reduce the risk of rowers coming to harm to as low as reasonably practicable.

Appropriate action planned:


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## City of Rotterdam/ <br> Primula Seaways

Pure car carrier/ro-ro ferry
Report number:
3/2017
Accident date:
3/12/2015

## Collision on the River Humber

## Safety Issues

- Unforeseen consequence of novel bridge design was relative motion illusion
- Problem known to ship's team but not addressed
- Had bridge team management been effective, accident could have been prevented


104 Propose to the International Association of Classification Societies that Recommendation 95 "Recommendation for the Application of SOLAS Regulation V/15 Bridge Design, Equipment Arrangement and Procedures (BDEAP)" is revised to:

- Improve the definition of conning position(s), taking into account the equipment that is required to be at, viewable from, and convenient to the position.
- Raise the awareness of the dangers of navigating from off-axis windows and the effect of relative motion illusion.

Appropriate action implemented

105 Propose to the International Association of Classification Societies that the status of Recommendation 95 is raised to a Unified Interpretation.

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## Petunia Seaways/Peggotty

Ro-ro freight ferry/historic motor launch
Collision on the River Humber in dense fog

## Safety Issues

- The passage plan was not adequate in the reduced visibility
- The motor launch was not displaying navigational lights, and neither vessel was sounding a fog signal as required by the COLREGS

1) Although the motor launch was showing on radar, it was not noticed by the VTS officer


In view of actions taken by Associated British Ports following this accident, no recommendations were made.

## Report number: <br> 4/2017

Accident date: 19/05/2016

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## Uriah Heep <br> Small passenger ferry <br> Report number: <br> 6/2017 <br> Accident date: <br> 13/5/2016

## Contact with Hythe Pier, near Southampton

## Safety Issues

- Propulsion control failure led to collision with pier
- No injuries sustained as the skipper had alerted the crew and passengers to the impending collision


Following the accident, the Maritime and Coastguard Agency withdrew Uriah Heep's passenger safety certificate and the ferry was sold by its operator. In view of these actions, no recommendations were made.

## CV21

Report number:
7/2017
Commercial racing yacht
Combined report on the investigations of the fatal accident while 122nm west of Porto, Portugal on 4 September 2015 and the fatal person overboard in the mid-Pacific Ocean on 1 April 2016

## Safety Issues

- Watch leader moved into unmarked danger zone
- Ineffective supervision of inexperienced crew


## No Recommendation(s) to: <br> Clipper Ventures plc

107 Review and modify its onboard manning policy and shore-based management procedures so that Clipper yacht skippers are effectively supported and, where appropriate, challenged to ensure that safe working practices are maintained continuously on board. In doing so, it should consider the merits of:

- Manning each yacht with a second employee or contracted 'seafarer' with appropriate competence and a duty to take reasonable care for the health and safety of other persons on board.
- Enhancing shore-based monitoring and scrutiny of onboard health and safety performance.

Appropriate action implemented


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Complete its review of the risks associated with a Clipper yacht MOB and recovery, and its development of appropriate control measures to reduce those risks to as low as reasonably practicable, with particular regard to:

- Ensuring strict adherence to clipping-on procedures
- Reviewing the guardrail arrangements on its yachts to reduce to as low as reasonably practicable the risk of a person falling overboard
- AIS beacon carriage, training and procedures
- Providing training in addition to that delivered on basic sea survival training courses to better prepare its crews for the challenges they could encounter
- Reinforcing the requirement for yacht crews to carry out regular and effective practical MOB recovery drills
- Providing its crews with methods and procedures for reducing sail quickly and safely in extreme weather conditions.


## Appropriate action implemented

## No Recommendation(s) to: Royal Yachting Association (RYA)/ World Sailing/British Marine

109 Work together to develop and promulgate detailed advice on the use and limitations of different rope types commonly used, including HMPE, in order to inform recreational and professional yachtsmen and encourage them to consider carefully the type of rope used for specific tasks on board their vessels.

RYA: Appropriate action planned:
NO DATE GIVEN

World Sailing: Appropriate action implemented


British Marine: Appropriate action planned:

## No <br> Recommendation(s) to:

Marlow Rope Ltd
110 Review the information provided on its data sheets to ensure that the user is informed on the loss of strength caused by splices, hitches or knots when using ropes made with HMPE. In addition, work together with other rope producers to ensure that these limitations are promulgated within the maritime sector.

## Appropriate action implemented

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## Pauline Mary <br> Potting fishing vessel (WY845) <br> Report number: <br> 8/2017 <br> Accident date: <br> 2/9/2016

Fatal man overboard east of Hartlepool

## Safety lssues

- No safe system of work for the deployment of lobster pots
- Crew member was not wearing a lifejacket or carrying a knife
- Inappropriate carriage of passengers during fishing operations
- Delay in using the emergency DSC alert
- Skipper had not carried out risk assessment of fishing method


111 Provide updated guidance on the carriage of passengers or guests on board commercial fishing vessels during operations.


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## Love for Lydia

Motor cruiser

## Report number:

Accident date: Between 7 and 9/6/2016

## Carbon monoxide poisoning on Wroxham Broad resulting in two fatalities

```
Safety Issues
- Petrol engine used to charge batteries while alongside and exhaust fumes entered boat
- Vessel's cockpit and accommodation spaces were inadequately ventilated
- No CO alarm fitted
```



## No Recommendation(s) to:

112 Continue to build on current initiatives by co-ordinating relevant organisations to focus efforts on raising the awareness of the leisure boating community of the dangers of CO and the importance of fitting carbon monoxide alarms. Efforts should be focused on, inter alia:

- Raising awareness of the likely sources of carbon monoxide, including from other boats.
- The dangers of using inappropriate or poorly installed fossil-fuel burning equipment.
- Recognising the early symptoms of carbon monoxide poisoning.
- The importance of ventilation in habitable areas.

Appropriate action implemented

## No Recommendation(s) to:

## British Marine

113 Seek clarification from the Recreational Craft Sectoral Group concerning whether a requirement to install carbon monoxide detection systems falls within the scope of the RCD's essential requirements, particularly requirement 5.1.1.


## No Recommendation(s) to: <br> Boat Safety Scheme

114 Make the installation of carbon monoxide alarms a requirement for recreational craft participating in the Boat Safety Scheme, taking into account, among other things, the:

- Potential risk posed to other boat users by carbon monoxide-rich engine emissions.
- Various sources of carbon monoxide on board recreational craft.


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- Number of recent deaths of recreational boaters caused by carbon monoxide poisoning.
- Relatively low cost of carbon monoxide alarms.

Appropriate action planned:

## 2018 JUNE 30

| Osprey/Osprey \|/ | Report number: | 10/2017 |
| :--- | :--- | ---: |
| RIBs | Accident date: | 19/7/2016 |

## Collision between two rigid inflatable boats resulting in serious injuries to one passenger on Firth of Forth

## Safety lssues

- No method agreed or risk assessment for the 'close pass' manoeuvre
- More passengers than available seats
- Victim seated on tube in a vulnerable position
- Delay in obtaining medical assistance


No Recommendation(s) to: Maritime and Coastguard Agency
115 Include in its forthcoming Recreational Craft Code with respect to commercially operated passenger carrying RIBs:

- A requirement for the certificated maximum number of passengers to be limited to the number of suitable seats designated for passengers.
- Guidance on its interpretation of "suitable" with respect to passenger seating.
- A requirement for passengers not to be seated on a RIB's inflatable tubes unless otherwise authorised by the Certifying Authority and endorsed on the RIB's compliance certificate with specified conditions to be met for a particular activity.



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Royal Iris of the Mersey
Domestic passenger ferry


## Grounding at the approaches to Eastham lock, River Mersey

## Safety Issues

- Navigation by eye was insufficiently accurate in the circumstances
- The vessel was not equipped with an electronic chart display and the paper charts used were not referred to


Due to actions taken by Mersey Ferries Limited, Peel Ports Group Limited and the UK Hydrographic Office, no recommendations were made.

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## Ardent II <br> Trawler <br> Report number: <br> 12/2017 <br> Accident date: 16/8/2016

## Fire while alongside in Port Henry Basin, Peterhead

## Safety Issues

- Lack of electrical equipment inspection and testing
- Fire detection and alarm system needed for sleeping crew

In view of current regulation and guidance, and that the voluntary code of practice for fishing vessels of 24 m registered length and over is intended to become mandatory in 2017, no recommendations were made in this report.

## Zarga <br> LNG carrier <br> Report number: <br> 13/2017

## Failure of a mooring line while alongside the South Hook Liquefied Natural

 Gas terminal, Milford Haven resulting in serious injury to an officer
## Safety Issues

- Elastic pennant on HMPE mooring introduced snap-back hazard
- Jacketed rope construction prevented inspection of load bearing yarns
- Conflict between rope manufacturers' guidance on factors of safety and the ship industry operating guidance



## No Recommendation(s) to:

## Bridon International Ltd

117 Review and enhance its guidance and instructions for the monitoring, maintenance and discard of HMSF mooring ropes, and bring this to the attention of its customers. The revised guidance should emphasise the importance of:

- Deck fitting and rope D:d ratios.
- Applying appropriate safety factors for given applications.
- Understanding the causes of kinking and the potential impact of axial compression fatigue on the working life of HMSF rope.
- Rope fibre examination and testing as part of the assessment of fibre fatigue degradation and discard.

Appropriate action planned:

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| 118 | Conduct whole rope break tests, where practicable, to establish accurate realisation factors for its HMSF ropes. <br> Appropriate action planned: | CHIEF <br> INSPECTOR'S REPORT |
| :---: | :---: | :---: |
| No | $\begin{array}{ll}\text { Recommendation(s) to: } & \begin{array}{l}\text { Shell International Trading and } \\ \text { Shipping Company Ltd }\end{array}\end{array}$ |  |
| 119 | Review the mooring arrangements on board its vessels and ensure that the mooring lines and the deck fittings are compatible. <br> Appropriate action implemented | PART 1 <br> 2017 OVERMEN |
| 120 | Develop robust mooring line procurement criteria to ensure rope manufacturers' recommendations on safety factors and D:d ratios are carefully considered. <br> Appropriate action planned: |  |
| 121 | Provide its ships' crews with comprehensive guidance on the inspection of HMSF mooring ropes. | PART 2 <br> REPORTSAND Recommendaions 2017 |
| 122 | Investigate methods for monitoring the through-life condition of HMSF rope mooring lines with the aim of ensuring ropes are retired and replaced before their residual strength drops below their expected working load limit. <br> Appropriate action planned: | PART 3 Stanstics |
|  |  | AnNex <br> Glossary <br> Resources |
|  | rope break during testing |  |

## No Recommendation(s) to:

Oil Companies International Marine
Forum (OCIMF)
123 Consider the safety issues identified in this report during the revision of its Mooring Equipment Guidelines, in particular:

- The complex nature of mooring rope snap-back, and actions that can be taken to mitigate injury to the crew.
- Factors such as axial compression, cyclic loading, creep, flexing and twisting that will contribute to the loss of strength in HMSF ropes over time.
- Adoption of a safe minimum D:d ratio for all deck fittings using HMSF mooring ropes.
- Through-life monitoring of HMSF mooring rope operating conditions and maintenance to achieve managed discard timescales.

Appropriate action planned:


124 Promulgate the safety issues identified in this investigation to its members.

## Appropriate action implemented

125 When updating its OCIMF/SIGTTO guide on purchasing high modulus synthetic fibre mooring lines, ensure the limitations of the tests contained within its "Guidelines for the Purchasing and Testing of SPM Hawsers" are recognised, and that rope performance tests verify an HMSF rope meets a prescribed safe working life.

## Appropriate action planned: <br> 

## No Recommendation(s) to: <br> EUROCORD

126 Consider the inclusion of the following criteria during the next revision of ISO2307:2010:

- Full load break tests to be applied to all new rope designs/constructions and when the molecular properties of fibre material have been significantly altered.
- Clarification that yarn break testing and the resultant realisation factors, as a means of determining rope strength, be treated only as supporting evidence to full rope break testing.
- Indicative realisation factors for HMSF.
- The effects of yarn twist levels on rope strength and fatigue life under varying operating conditions.

Appropriate action planned:

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| Surprise | Report number: | 14/2017 |
| :--- | :--- | ---: |
| Domestic passenger vessel | Accident date: | $15 / 5 / 2016$ |

Grounding and evacuation of vessel at Western Rocks, Isles of Scilly

## Safety Issues

- Vessel underway in vicinity of rocks without a passage plan, completely reliant on skipper's local knowledge
- Skipper was complacent due to repeated and persistent close proximity to navigational hazards
> No procedures for grounding or flooding


No Recommendation(s) to:
Council of the Isles of Scilly
127 Review its procedures for the examination and issue of Local Authority Boatman's licences. The review should consider the applicability of the licensing scheme and assurance of examination standards.


## No Recommendation(s) to: <br> St Mary's Boatmen's Association

128 Update its safety management system to incorporate guidance on passage planning and the conduct of navigation. (Such guidance should not affect the responsibility of individual skippers for the safe operation of their own vessels.)

Appropriate action implemented


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## Manhattan Bridge

Container vessel

Safety Bulletin number: SB1/2017
Accident date: 19/01/2017

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## Auxiliary boiler explosion at Felixstowe container terminal resulting in one fatality and one serious injury

## Safety Issues

- Maintenance management; faulty igniter and leaking solenoid valve found during evidence collection
- Inappropriate fuel resulted in waxing under cold conditions
- Limited knowledge of boiler fuel/ control system resulted in repetitive use of reset function
- Failure of burner locking arrangement


The bulletin was designed to raise awareness of a safety issue that might be linked to the initial boiler flame failures. No recommendations were made.

An investigation report was later published by the Japan Transport Safety Board on 27 December 2017: http://www.mlit.go.jp/jtsb/eng-mar report/2017/2017tk0004e.pdf

## Sea Harvester

Twin rig prawn trawler (N822)

Report number: 15/2017
Accident date:
3/8/2016
Serious injury to a deckhand in the Firth of Clyde

## Safety Issues

- Guiding-on pole for trawl net failed under transverse load
- Crewman was standing in hazardous area


No Recommendation(s) to:
Owners of Sea Harvester
129 Take steps to promote the safe operation of their vessels, taking into account, among other things, the importance of:

- Crew training
- The provision and use of personal protective equipment
- Regulatory compliance.

Appropriate action implemented

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## CMA CGM Simba/Domingue <br> Container vessel/tug <br> Report number: <br> 16/2017 <br> Accident date: <br> 20/9/2016

> Capsize of a tug while assisting a container vessel resulting in two fatalities at Tulear, Madagascar

## Safety Issues

- Tug's crew were insufficiently experienced
- Tug and tow lines were inappropriate for the task
- Tug was not monitoring effectively from the ship


The scope of the MAIB investigation focused on aspects concerning the involvement of CMA CGM Simba with only observations relating to the tug Domingue owing to limited access to evidence. The Madagascar maritime authority, Agence Portuaire, Maritime et Fluviale (APMF), has confirmed it is conducting a safety investigation into the causes and circumstances of the accident in accordance with the International Maritime Organization's Casualty Investigation Code, but has not advised when its report will be published.

No recommendations were issued as a consequence of the investigation in light of current published guidance and the actions since taken by CMA CGM Simba's manager, Midocean Ltd.

Louisa Report number: 17/2017
Vivier creel boat (SY30)
Accident date:
9/4/2016

## Foundering while at anchor off the Isle of Mingulay in the Outer Hebrides resulting in three fatalities

## Safety Issues

- Crew fatigued from working excessive hours
- Out-of-date lifesaving appliances
- Deficient liferaft maintenance
- Abandon ship lifejackets failed to keep the unconscious crews' faces clear of the water


No Recommendation(s) to:
Maritime and Coastguard Agency
130 Urgently conduct research to confirm or otherwise the effectiveness of SOLAS lifejacket water performance test requirements to ensure approved lifejackets will satisfactorily turn a face-down, unconscious person onto their back with sufficient orientation and buoyancy to maintain their airway clear of the water. Any shortcomings in the water performance test requirements that may be identified should be brought to the attention of the International Maritime Organization for action.

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131 Update and enhance its response to satellite distress beacon alerts, particularly with regard to GNSS enabled EPIRBs, in respect of:

- HMCG's standard operating procedure.
- Staff training, in terms of both Cospas-Sarsat system knowledge and HMCG's operational requirements, including the definition of standard terminology in relation to beacon alerts.
- Network functionality, reliability, supporting interactivity and resource, in terms of both manpower and equipment.



## MAIB comment:

## We are expecting a completion letter from MCA shortly.

## No Recommendation(s) to: Premium Liferaft Services

132 Update its liferaft servicing procedures to ensure:

- Any anomalies in the recorded $\mathrm{CO}_{2}$ cylinder weight can be readily identified.
- Definitive work specifications are issued to sub-contractors.
- Selected sub-contractors are suitably qualified to undertake the specified work.
- Introduce a formal process to advise hirers when their liferafts are due for service.
- Compliance with the content of MGN 533 (M+F).

Appropriate action implemented

## No Recommendation(s) to: <br> Thameside Fire Protection Company Limited

133 Introduce liferaft $\mathrm{CO}_{2}$ cylinder servicing procedures to ensure:

- Any anomalies in the recorded $\mathrm{CO}_{2}$ cylinder weight can be readily identified.
- Sufficient documentation is held to facilitate servicing a $\mathrm{CO}_{2}$ cylinder in accordance with the liferaft servicing company's work specification and the particular liferaft manufacturer's instructions.


## Appropriate action implemented

## No Recommendation(s) to:

Owners of Louisa
134 With respect to any fishing vessel they may own in the future, ensure that the vessel remains compliant with the relevant mandatory Code of Practice by:

- Developing a planned maintenance system to ensure the vessel is maintained and its safety equipment serviced in accordance with statutory requirements and manufacturers' instructions.
- Conducting formal risk assessments appropriate to the vessel's anticipated range of activities.


## Appropriate action implemented

- Owner and rescuers lacked awareness of carbon monoxide danger
- Deficient engine maintenance

Given the recommendations issued following the Love for Lydia investigation (page 24), no further recommendations were made.

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## Fatal CO poisoning while moored at Cardiff Yacht Club

## Safety Issues



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## Transocean Winner/ALP Forward <br> Semi-submersible rig/tug <br> Accident date: <br> Grounding of Transocean Winner following the loss of tow from ALP Forward on the Isle of Lewis

\section*{Report number:

## Report number: <br> 19/2017

8/8/2016

## Safety lssues

- Inadequate allowance for weather during planning stages
- Effects of wind on rig not assessed during planning stages
- Length, load and catenary of tow line inadequately managed



## No Recommendation(s) to:

ALP Maritime Services BV
135 Review its procedures with regard to the production of towing manuals to ensure that the guidance provided in them:

- Complies with the guidelines issued by the International Maritime Organization in MSC/Circ. 884 of 1998.
- Provides those responsible for the safety of the tow with all the necessary information, including tow-specific guidance on:
- the need to consider sea room and lee shores during passage planning
- the provision of an adequate catenary
- the need to report when control of the tow is lost
- the limitations/functionality of the emergency towing arrangement when in adverse weather.
- Provides its vessels' crews and maintenance staff with comprehensive guidance on the maintenance, inspection and discard of tow lines.

Appropriate action implemented


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| Hebrides | Report number: | 20/2017 |
| :--- | :--- | ---: |
| Ro-ro passenger ferry | Accident date: | $25 / 9 / 2016$ |

Loss of control and grounding of ro-ro passenger ferry at Lochmaddy, North Uist

## Safety lssues

- Machine service instructions not available to staff and not followed during routine maintenance

No Recommendation(s) to:
Rolls-Royce Marine
136 Verify its processes to ensure that service and inspection instructions provided by the original equipment manufacturers of the components used in its control systems are available to its service engineers and in the documentation provided to vessels.

Appropriate action implemented

## No Recommendation(s) to: <br> CalMac Ferries Ltd

137 Implement procedures that:

- Document and process recommendations for safety critical system upgrades received from manufacturers.
- Introduce drills and contingency plans to better prepare its crews to deal with propulsion failures.

Appropriate action implemented


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## F4 powerboats

Formula 4 (F4) powerboats

Recommendation issued pre-publication by letter
Accident date:
02/07/2017

## Collision resulting in serious injury to one driver at Stewartby Lake, Bedfordshire

## Safety Issues

- Driver's escape equipment did not function as intended
- Race continued under yellow flag conditions following the accident
- Some roles and responsibilities of race officials (i.e. safety officer) were unclear


138 Submit proposals to the Union Internationale Motonautique and the national governing bodies for powerboat racing aimed at addressing the immediate safety issues identified during the MAIB's initial investigation. In particular, the need to stipulate a minimum duration for emergency air supplies and ensure the effective operation of safety devices is demonstrated during the race scrutineering process.

Appropriate action implemented


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| Sunmi/Patrol | Report number: | 21/2017 |
| :--- | :--- | ---: |
| General cargo vessel/pilot launch | Accident date: | $5 / 10 / 2016$ |

Fatal accident during pilot transfer on the River Thames, London

## Safety lssues

- Pilot used inappropriate width deck gate to board vessel
- Insufficient risk assessment carried out for 'step across' boarding
- Pilot had consumed alcohol
- Pilot fitness levels


No Recommendation(s) to:
International Maritime Pilots' Association
139 Promulgate the requirements for gateways in vessels' rails or bulwarks intended for pilot boarding operations by updating its Required Boarding Arrangements For Pilot poster to include the amendments contained in IMO Resolution A.1108(29).


No Recommendation(s) to: Misje Rederi A.S.
140 Ensure that the designated pilot boarding areas on Sunmi are marked and that pilot boarding operations are overseen by a responsible officer.

Appropriate action implemented

| Muros | Report number: | 22/2017 |
| :--- | :--- | ---: |
| Bulk carrier | Accident date: | $3 / 12 / 2016$ |

## Grounding on Haisborough Sand in the North Sea

## Safety Issues

- The revised passage plan was unsafe and had not been adequately checked
- The master did not see or approve the revisions
- ECDIS safeguards were ignored, overlooked or disabled
- The OOW's performance was probably adversely affected by a low state of alertness


In view of the actions taken by the ship's manager, Naviera Murueta, no recommendations were made. Furthermore, MAIB is conducting a safety study, in collaboration with the Danish Maritime Accident Investigation Board, designed to more fully understand why operators are not using ECDIS as envisaged by regulators and the system manufacturers.

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## CMA CGM Vasco de Gama <br> Ultra-large container vessel <br> Grounding on the western side of the Thorn Channel while approaching the Port of Southampton

## Safety Issues

- Poor master/pilot exchange
- Inadequate planning of passage from pilot boarding station to berth
- Lack of communication between ship's staff and pilots on bridge
- Passage plan was not reviewed during voyage



## No Recommendation(s) to:

## CMA Ships

141 Conduct a thorough review, through its internal audit process, of the implementation of company procedures for pilotage planning, use of ECDIS and bridge resource management, and take steps to improve onboard standards and levels of compliance.

Appropriate action implemented

142 Include standards of pilotage and bridge team/pilot integration as specific items for assessment and comment in its internal navigation audit reports.

Appropriate action implemented
143 Work closely with ABP Southampton to address the safety issues identified in this report.

Appropriate action implemented

## No Recommendation(s) to: <br> Associated British Ports

144 Conduct a thorough review, through its internal audit process, of the implementation of company procedures for pilotage planning and bridge resource management at all its UK ports, and take steps to improve standards of communication and levels of compliance.

Appropriate action implemented
145 Provide refresher training to all pilots in bridge resource management and implement a periodic bridge resource management training programme.

Appropriate action implemented
146 Consider providing provisional pilotage plans to vessels and VTS prior to pilot embarkation.

Appropriate action implemented

## Typhoon Clipper/Alison

 Report number:24/2017
Accident date:
5/12/2016

## Collision between the high-speed passenger catamaran Typhoon Clipper and the workboat Alison adjacent to Tower Millennium Pier, River Thames, London

## Safety Issues

- No effective lookout by either vessel
- Poor judgment by skipper of Alison (to try and pass close ahead of a larger/faster vessel)
- VHF radio not used by either vessel to notify intentions to other vessels
- Lifejackets not being worn by either of the 2 crew on board Alison



## No Recommendation(s) to: <br> Port of London Authority

147 Review and, as necessary, clarify the application of:

- General Direction 28 requiring posting of a lookout or a suitable technical means of maintaining an effective lookout in any vessel with limited visibility.
- Byelaw 43 requiring the use of sound signals for vessels intending to enter the fairway; this should include consideration of vessels departing from a pier.


Appropriate action planned:

## No Recommendation(s) to: <br> Crown River Cruises Limited

148 Update its safety management system to include risk assessments and procedures for the safe operation of workboats.

Appropriate action implemented


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## Graig Rotterdam

Bulk carrier

## Report number: 25/2017

Accident date: 18/12/2016
Fatal accident during a cargo discharge at Alexandria Port, Egypt

## Safety lssues

- No fall prevention measures in place for crew working on cargo
- Poor stevedoring practices
- Insufficient racking strength with deck cargo lashings removed


No Recommendation(s) to:
Graig Ship Management Limited
149 Reinforce and, as appropriate, modify its safety management system with respect to the carriage of timber cargoes to ensure:

- A lifeline or other means for attaching a safety harness is available to counter the risk of ship's crew or shore stevedores falling from the top of a deck cargo stack or as a result of a deck cargo stack collapse.
- Where possible, appoint a master or chief officer with experience of the cargo type being carried.
- Ship's crew proactively engage with shore stevedores for the purpose of maintaining a safe system of work during cargo operations.

Appropriate action implemented

## No Recommendation(s) to: <br> Norlat Shipping Limited A.S.

150 Ensure that all cargo information, as required by the IMO Code of Safe Practice for Ships Carrying Timber Deck Cargoes, is provided to the master or his representative prior to loading cargo for all ships that it charters to carry timber deck cargo.

Appropriate action implemented

## CV24

Recommendation issued pre-publication by letter
Commercial racing yacht
Grounding and loss of yacht at Cape Peninsula, South Africa

## Safety Issues

- Maintaining situational awareness
- Conduct of safe navigation
- Passage planning and monitoring


No Recommendation(s) to:
Clipper Ventures plc
151 Take urgent action designed to improve the ability of its skippers and watch leaders to maintain positional awareness while on deck in pilotage and coastal waters. Consideration should be given to:

- The provision of a navigation/chart display on deck by the helm position;
- More effective use of onboard navigational equipment to avoid danger, including a means for rapid communication between the navigation station and the helm;
- More clearly defining the duties of the watch navigator.

Partially accepted - open

## Karissa

General cargo vessel

Recommendation issued by Chief Inspector's letter

## Accident date:

Various dates in 2017
Three groundings and two collisions in Langstone Harbour

## Safety Issues

- Insufficient passage planning
- Risk assessment did not address hazard of grounding
- Insufficient supervision of pilotage by the harbour authority


No Recommendation(s) to: Kendalls Group
152 In co-operation with the Langstone Harbour Authority, undertake a risk assessment for navigation of Karissa in Langstone Harbour, paying particular attention to the development of procedures for the safe conduct of pilotage.

Appropriate action implemented

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## Nortrader <br> General cargo vessel <br> Report number: 26/2017 <br> Accident date: 13/1/2017

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156 Review its safety management system to ensure that the requirement to apply the provisions of the IMSBC Code to all bulk cargoes is clear

Appropriate action implemented

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## 2016 RECOMMENDATIONS - PROGRESS REPORT*

*Status as of 31 March 2018
Good Intent/Silver DeeReport number:4/2016
Fishing vesselsAccident date:29/07/2015 are in charge of in the future, taking particular account of the guidance contained in MGN 313 (F) - Keeping a Safe Navigational Watch on Fishing Vessels.

## Collision between fishing vessels

resulting in the foundering of Silver Dee in the Irish Sea

| No | Recommendation(s) to: The skippers of both vessels |
| :--- | :--- |
| 2016/106 | Take steps to improve the standard of watchkeeping on board vessels they <br> are in charge of in the future, taking particular account of the guidance <br> contained in MGN 313 (F) - Keeping a Safe Navigational Watch on Fishing |
| Vessels. |  |

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Skipper of Good Intent - appropriate action implemented Skipper of Good Intent - appropriate action implemented
Skipper of Silver Dee - no response received: closed

| Hoegh | Osaka | Report number: | 6/2016 |
| :---: | :---: | :---: | :---: |
| Car carrier |  | Accident date: | 03/01/2015 |
|  | Listing, flooding and grounding of a car carrier on Bramble Bank, The Solent |  |  |
| No | Recommendation(s) to: Maritime and Coastguard Agency |  |  |
| 2016/110 | Promulgate the amended version of IMO Resolution A.581(14) in respect of the minimum MSL of lashings to be used when securing road vehicles: |  |  |
|  | - Through its forthcoming Marine Guidance Note, providing guidance on the safe stowage and securing of specialised vehicles; and |  |  |
|  | - Within the next edition of its publication Roll-on/Roll-off Ships Stowage and Securing of Vehicles - Code of Practice. |  |  |
|  | Appropriate action planned: |  |  |

## Listing, flooding and grounding of a car carrier on Bramble Bank, The Solent



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## Cemfjord

Cement carrier

## Report number:

8/2016
Accident date: 02/01/2015

## Capsize and sinking of a cement carrier in the Pentland Firth with the loss of all eight crew

| No | Recommendation(s) to: Maritime and Coastguard Agency |
| :--- | :--- |
| 2016/115 Review the arrangements for the safety of shipping in the Pentland Firth, |  | giving particular consideration to:

- Defining the purpose of the Pentland Firth voluntary reporting scheme. This should include the information to be provided by vessels in the area and the subsequent use of that information by the coastguard.
- The potential benefits of making the Pentland Firth voluntary reporting scheme compulsory.
- Identifying the level of surveillance and monitoring required of vessels operating in the Pentland Firth. In particular, establishing operational routines for the use of AIS information and operator procedures to monitor AIS tracks and respond to loss of AIS contact.
- Whether, given the frequent and extreme local sea conditions, advisory information should be broadcast to ships in addition to routine maritime safety information.



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## Report number: <br> 11/2016

Workboat
Accident date:
30/04/2015

## Collapse of a crane on board a workboat resulting in one fatality on Loch Spelve, Isle of Mull




| No Re | mendation(s) to: Sea Fish Industry Authority (Seafish) | IEF |
| :---: | :---: | :---: |
| 2016/132 | Amend its construction standards to include a requirement for new fishing vessels and vessels joining the UK fishing vessel register to be fitted with a Wolfson freeboard mark. <br> Appropriate action planned: | INSPECTOR'S REPORT |
| No | Recommendation(s) to: Maritime and Coastguard Agency/ Sea Fish Industry Authority |  |
| 2016/133 | Work together to ensure that the inspection regime for assessing existing vessels against the Seafish Construction Standards is consistently robust through critical evaluation of the condition of each vessel at the time of survey. <br> MCA - Appropriate action implemented <br> Seafish - Appropriate action planned: | PART 1 2017OVERMEN |
| No | Recommendation(s) to: $\quad$ Maritime and Coastguard Agency/  <br>  Sea Fish Industry Authority/ <br>  Scottish Fishermen's Federation (SFF)/ <br>  National Federation of Fishermen's <br>  Organisations (NFFO) | PART 2 <br> REPORISAND Recommendaions PREMOUS YEARS |
| 2016/134 | Through membership of the Fishing Industry Safety Group, collectively explore ways to encourage owners of fishing vessels of under 15m LOA that are engaged in trawling, scalloping and bulk fishing to affix a Wolfson Mark to their vessels and operate them in accordance with the stability guidance provided. <br> MCA - Appropriate action planned: <br> Seafish - Appropriate action planned: | PART 3 <br> Stansics <br> Anvex <br> Glossary <br> Resources |



## Saint Christophe 1/Sagittaire

Fishing vessels

## Report number: 24/2016

Accident date: 10/03/2016

## Grounding of French fishing vessels while alongside in Dartmouth resulting in the flooding and sinking of Saint Christophe 1



## 2015 RECOMMENDATIONS - PROGRESS REPORT*

*Status as of 31 March 2018

| Arniston |  | Report number: | 2/2015 |
| :---: | :---: | :---: | :---: |
| Motor cruiser |  | Accident date: | 01/04/2013 |
| Carbon monoxide poisoning with two fatalities on Windermere |  |  |  |
| No R | Recommendation(s) to: | ety Scheme |  |
| 2015/104 | Encourage its boat examin examinations, to explain to monoxide poisoning; high and promote the use of carb | ourse of periodic ere present, the ris al sources of carb alarms. | at of carbon monoxide; |

Appropriate action implemented

## Wanderer II

Report number:
6/2015
Fishing vessel
Accident date: 19/11/2013

## Serious injury to a crew member while 1 mile southeast of Wiay Island, Outer Hebrides

| No | Recommendation(s) to: Maritime and Coastguard Agency |
| :--- | :--- |
| 2015/109 | Review and amend MGN 415 to include guidance on the safe operation of <br> winch whipping drums. |

Partially accepted - closed

## MAIB comment:

Although the new Codes of Practice for the Safety of Fishing Vessels (MSN 1871, 1872 and 1873) provide greater clarification about the installation and use of winch whipping drums. The lack of guidance to operators on their safe use remains unaddressed.

2015/110
In developing the revised Code of Safe Working Practices for the Construction and Use of 15 metre length overall to less than 24 metres registered length Fishing Vessels, ensure that the safe operation of winches is properly considered, including that:

- Hauling and hoisting gear shall be controlled by a dedicated winch operator;
- The winch operator shall give exclusive attention to that task and not carry out any other tasks while operating the equipment;
- Appropriate safety devices, including emergency stop facilities, are within easy reach of personnel using the equipment.

Such provision should be applied to all vessels constructed, and all existing vessels that are substantially structurally or technically modified, from the date the revised Code is introduced.

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## Cheeki Raffki

Sailing yacht
Loss of a yacht and its four crew in the Atlantic Ocean, approximately 720 miles east-south-east of Nova Scotia, Canada


[^3]
## Millennium Time/Redoubt <br> Passenger vessel/motor tug <br> Report number: 13/2015 <br> Accident date: 17/07/2014

## Collision on the Kings Reach, River Thames, London



## Carol Anne

 Recommendation issued pre-publication by letter
## Workboat

Accident date: 30/04/2015
Collapse of crane on workboat at Loch Spelve, Isle of Mull with one fatality
No Recommendation(s) to: Atlas Cranes UK Ltd
2015/142 Take action to ensure that:

- All Atlas 170.2 cranes supplied in the UK have been installed using fastenings of the diameter, grade and number of fastenings as promulgated by Atlas GmbH.
- The M24 nylon insert lock nuts supplied are of the same grade or higher than their associated studs.
- The operators of all other Atlas crane installations in the UK, for which Atlas UK has supplied fastenings, are made aware of the potential that the nuts that have been supplied may be of an insufficient grade.

Appropriate action implemented

## Commodore Clipper

Ro-ro passenger ferry

## Report number: 18/2015

Accident date: 14/07/2014

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## No Recommendation(s) to: Maritime and Coastguard Agency

2015/154 Take action to ensure that the EPIRBs required to be carried on UK registered fishing vessels are equipped with integral GNSS receivers.

| Beryl | Report number: | 26/2015 |
| :--- | :--- | ---: |
| Fishing vessel | Accident date: | 10/02/2015 |

Fatal person overboard west of the Shetlands Islands



## Stella Maris

Fishing vessel
Report number:
29/2015
Accident date: 28/07/2014

## Capsize and foundering 14 miles east of Sunderland

2015/165 Introduce intact stability criteria for all new and significantly modified decked fishing vessels of under 15 m in length.

Appropriate action planned:


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| 2015/166 | Revise as necessary and re-issue its guidance to fishing vessel owners and skippers on the application to fishing vessels of: <br> - The Merchant Shipping (Provision and Use of Work Equipment) Regulations 2006, and <br> - The Merchant Shipping (Lifting Operations and Lifting Equipment) Regulations 2006. | CHIEF <br> INSPECTOR'S <br> REPORT |
| :---: | :---: | :---: |
| No | Recommendation(s) to: Sea Fish Industry Authority | PART 1 <br> 2017 OVERMEN |
| 2015/167 | Amend its construction standards for new registered vessels to increase the angle at which downflooding occurs by reviewing the placement of ventilation ducts in or adjacent to the bulwarks. <br> Appropriate action planned: |  |
| No | Recommendation(s) to: Marine Management Organisation (MM0) |  |
| 2015/168 | Mandate stability verification for current and future European Commission funded projects involving decked vessels undergoing significant modifications that might impact on their stability. <br> Appropriate action implemented | PART 2 <br> REPORTSAND Recommendations PREMOUSYEARS |
| 2015/169 | Include vessel stability verification as an eligible safety related undertaking for attracting grant aid from European Commission fund schemes. |  |
| 2015/170 | Require scale drawings, machinery installation details, winch power information and all other relevant details of proposed structural modifications to vessels to be included in all applications for assistance from future European Commission funded schemes. <br> Appropriate action implemented | PART 3 Stantics |
| No | Recommendation(s) to: Maritime and Coastguard Agency/ Marine Management Organisation |  |
| 2015/171 | Work together to ensure European Commission funded modifications are fully reviewed for their impact on vessel stability and safety by agreeing the remit of such reviews and setting realistic target times to enable such cooperation. |  |
|  | MCA: Appropriate action planned: | AnNex Glossary RESOURCES |
|  | MMO: Appropriate action implemented |  |

## 2014 RECOMMENDATIONS - PROGRESS REPORT*

*Status as of 31 March 2018

| Danio |  | Report number: | 8/2014 |
| :---: | :---: | :---: | :---: |
| General cargo vessel |  | Accident date: | 16/03/2013 |
| Grounding off Longstone, Farne Islands |  |  |  |
| No | Recommendation(s) to: Maritime and Coastguard Agency |  |  |
| 2014/110 | Working closely with the European Commission and EU member states, make a proposal to the International Maritime Organization that all vessels engaged in short sea trades be required to carry a minimum of two watchkeepers in addition to the master. |  |  |

Appropriate action planned:


Collision between container vessel CMA CGM Florida and the bulk carrier Chou Shan in open water 140 miles east of Shanghai

| No | Recommendation(s) to: Maritime and Coastguard Agency |
| :--- | :--- |
| $2014 / 117$ | Update Appendix IV of MGN $324(\mathrm{M}+\mathrm{F})$ to: |
|  | - Acknowledge the growing trend of integrating AIS data with radar |
|  | systems. |
|  | - Acknowledge the increased availability and use of radar functions that |
|  | focus on and prioritise targets for collision avoidance on the basis of |
|  | AIS target CPA and TCPA rather than radar target tracking information. |
| - Warn of the danger of limiting situational awareness through over |  |
| reliance on radar functions that focus on and prioritise AIS target CPA |  |
| and TCPA. |  |

Appropriate action implemented

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## Wacker Quacker 1/Cleopatra

Report number:
32/2014
Amphibious passenger vehicles
Combined report on the investigations of the sinking and abandonment of the DUKW amphibious passenger vehicle Wacker Quacker 1 in Salthouse Dock, Liverpool and the fire and abandonment of the DUKW amphibious passenger vehicle Cleopatra on the River Thames, London


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Require existing DUKW operators, which may choose to rely on the insertion of buoyancy foam to meet the required damaged survivability standards, to demonstrate through risk based analysis that the foam does not adversely affect the safe operation of the vehicles.

## Appropriate action implemented

## No Recommendation(s) to: <br> London Duck Tours Ltd

2014/158
Use the safety lessons identified in this report to take further action to ensure, as far as is reasonably practicable, its vehicles, crew and passengers are best prepared to deal with emergency situations. In particular, attention should be given to:

- The readiness and use of PFDs: the practicalities of the current arrangements should be reviewed and consideration given to requiring all passengers to wear PFDs whenever DUKWs are waterborne.
- Establishing appropriate and achievable emergency procedures: these should include the marshalling of passengers, alerting potential responders and abandonment.
- Development of effective training drills.
- Engine compartment shut down and fire-fighting.
- Lowering the risk of passenger and crew entrapment: assess in particular whether the current canopy arrangements are appropriate.

Withdrawn

## MAIB comment:

Withdrawn as company no longer operates vehicles on the water.


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## 2013 RECOMMENDATIONS - PROGRESS REPORT*

*Status as of 31 March 2018

| St Amant | Report number: | 1/2013 |
| :--- | :--- | ---: |
| Fishing vessel | Accident date: | $13 / 01 / 2012$ |

Loss of a crewman from fishing vessel off the coast of north-west Wales

| No | Recommendation(s) to: Maritime and Coastguard Agency |
| :--- | :--- |
| 2013/102 | Ensure that its current policy of reviewing and deleting exemptions granted <br> to fishing vessels that pre-date current regulatory requirements is applied |
| robustly. As part of this process, the ambiguity between its Instructions <br> to Surveyors and the 15-24m Code regarding the ongoing acceptance of <br> standard exemptions should be resolved. |  |

## Appropriate action implemented

2013/103 Provide guidance to the owners and skippers of fishing vessels which operate at sea for more than 24 hours on appropriate accommodation standards.
The guidance should also recommend consideration of hygiene and sanitation facilities in a vessel's risk assessments, and the application of appropriate control measures.


2013/105 Improve the management of fishing vessel surveys and inspections by ensuring that:

- Existing survey and inspection procedures and guidance are reviewed to improve the clarity of the guidance and ensure that it is consistent throughout.
- There is an effective and readily accessible system to record and provide information to surveyors on the status of all identified deficiencies.
- Existing instructions requiring a photographic record of a vessel's principal features are followed.

Appropriate action planned:


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[^4]| Purbeck lsle | Report number: | 7/2013 |
| :--- | :--- | ---: |
| Fishing vessel | Accident date: | 17/05/2012 |

## Foundering of fishing vessel 9 miles south of Portland Bill with the loss of three lives

| No | Recommendation(s) to: Maritime and Coastguard Agency |
| :--- | :--- |
| 2013/203 | Take action to implement Recommendation 2008/173, issued in the MAIB's |
| 1992-2006 Fishing Vessel Safety Study, specifically by: |  |
| - Introducing a requirement for all fishing vessels of $<15 \mathrm{~m}$ length overall |  |
| to carry EPIRBS. |  |
| - Ensuring that the Merchant Shipping and Fishing Vessels (Health and |  |
| Safety at Work) Regulations 1997 apply in respect of all fishermen on |  |
| board fishing vessels, irrespective of their contractual status. |  |
| Appropriate action planned: |  |

2013/204 Align its hull survey requirements for fishing vessels of <15m length overall with those applied to workboats under the Harmonised Small Commercial Vessels Code.


## Sarah Jayne

Fishing vessel

Report number:
13/2013

## Capsize and foundering of fishing vessel 6 nm east of Berry Head, Brixham resulting in the loss of one life

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Vixen
Passenger ferry

Report number:
16/2013
Accident date: 19/09/2012

## Foundering in Ardlui Marina, Loch Lomond

| No | $\begin{array}{ll}\text { Recommendation(s) to: } & \begin{array}{l}\text { Stirling Council/ } \\ \text { West Dunbartonshire Council }\end{array}\end{array}$ |  |
| :---: | :---: | :---: |
| 2013/216 | Take action to: <br> - Establish a boat licensing system for inland waters falling under the Council's area of responsibility and which adopts the Inland Waters Small Passenger Boat Code as the standard applied for small passenger boats carrying fewer than 12 passengers on its categorised waters. |  |
|  |  |  |
|  | - Require such boats to be regularly surveyed by a competent person employed by a Certifying Authority or similar organisation as may be recommended by the Maritime and Coastguard Agency. |  |
|  |  | Prevess Onsoing |
|  | Stirling Council: Appropriate action planned: | NO DATE GIVEN |
|  |  | Prexess onsomp |
|  | West Dunbartonshire Council: Appropriate action planned: | NO DATE GIVEN |

Arklow MeadowReport number:

21/2013
General cargo vessel
Accident date:
5/12/2012

> Release of phosphine gas during cargo discharge at Warrenpoint, County Down

| No | Recommendation(s) to: Maritime and Coastguard Agency |
| :--- | :--- |
| 2013/225 | In consultation with the Health and Safety Executive, the Port Skills and <br> Safety Organisation, and other industry bodies as appropriate, review, <br> consolidate and re-issue the guidance provided to UK stakeholders on <br> the loading, carriage and discharge of fumigated cargoes to highlight the <br> importance of: |
| - The potential for a fumigant to remain active due to factors such as |  |
| temperature, relative humidity, voyage length and fumigant method. |  |
| - The retention of suitably trained and qualified fumigators at both the |  |
| load and discharge ports. |  |
| - Ships' crews being aware of their responsibilities. |  |
| - UK port authorities having robust procedures and contingency plans |  |
| when receiving vessels with fumigated cargoes. |  |

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## Audacious/Chloe T

Fishing vessels
Report ${ }^{5}$ number:
27/2013
Accident dates: 10/8/2012 and 1/09 2012
Flooding and foundering of fishing vessel Audacious 45 miles east of Aberdeen on 10 August 2012 and the Flooding and foundering of fishing vessel Chloe $T$ 17 miles south-west of Bolt Head, Devon on 1 September 2012


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*Status as of 31 March 2018


## Tombarra

Report number: 19A and 19B/2012
Car carrier
Accident date: 07/02/2011
Fatality to a rescue boat crewman, Royal Portbury Docks, Bristol

| Report Part A - The weight of the rescue boat |  |
| :---: | :---: |
| No | Recommendation(s) to: Maritime and Coastguard Agency |
| 2012/128 | Submit to the IMO proposals for the LSA Code to: <br> - Reflect a requirement for a 'system approach' to davit and winch installations with the aim of eliminating the possibility of any component being overstressed to the point of failure. <br> - Provide clarification on the fitting and use of 'safety devices' on davit and winch systems, using a goal-based approach to their application. |
|  | Partially accepted - closed |

Partially accepted - closed

Submit to the IMO a proposal to mandate a maximum height of the davit head used in conjunction with rescue boats and survival craft fitted on board both cargo and passenger ships, based upon:

- Recognition of the severe difficulties faced by the crews of high-sided vessels such as Tombarra when attempting to launch rescue boats in a seaway.
- The increased hazards to which the crews of rescue boats and survival craft are exposed when operating at height.
- The action taken by Wilhelmsen Lines Car Carriers Ltd to change the design of its future vessels to lower the height of the rescue boat davit head.
- The maximum height of davit heads used in conjunction with survival craft already recommended for passenger vessels in SOLAS III/24; and,
- The guidance provided in MSC Circ. 1094 regarding the height of davit heads used for fast rescue boats on board passenger ships.

Partially accepted - closed

## Report Part B - The failure of the fall wire

## No

Recommendation(s) to: Maritime and Coastguard Agency
2012/134
Submit to the IMO proposals to amend the LSA Code designed to:

- Ensure any water entering foam-filled buoyancy chambers within the enclosed hulls of rescue boats and lifeboats can be easily removed.
- Require the actual weight of the rescue boat or lifeboat supplied to the vessel, rather than its prototype, to be provided in its certification.

Partially accepted - closed

2012/135 Submit to the IMO proposals to amend MSC.1/Circ.1206/Rev. 1 designed to require the annual weighing of rescue boats and lifeboats which use buoyancy foam within internal spaces, as soon as practicable.

Partially accepted - closed

## 2011 RECOMMENDATIONS - PROGRESS REPORT

## There are no outstanding recommendations for 2011.

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## 2010 RECOMMENDATIONS - PROGRESS REPORT*

*Status as of 31 March 2018

## Korenbloem/Optik/Osprey III

(Combined) report number:
6/2010
Fishing vessels
Accident dates: November 2009
Fatal person overboard accidents

| No | Recommendation(s) to: Department for Transport |
| :--- | :--- |

Partially accepted - closed


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## Olivia Jean

Fishing vessel

## Report number: 10/2010

Accident date: 10/10/2009

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## 2009 RECOMMENDATIONS - PROGRESS REPORT*

*Status as of 31 March 2018

| Celtic Pioneer |  | Report number: | 11/2009 |
| :---: | :---: | :---: | :---: |
| Rigid-hulled Inflatable Boat |  | Accident date: | 26/08/2008 |
| Injury to a passenger on board RIB in the Bristol Channel |  |  |  |
| No | Recommendation(s) to: | Coastguard Agen |  |
| 2009/126 | Review and revise the deck manning and qualification requirements of the harmonised SCV Code taking into account the speed of craft and the type of activity intended in addition to the distance from shore and environmental conditions. |  |  |
|  |  | iate action plann | d: 30 |

## Abigail H

Grab hopper dredger
Report number: 15/2009

## Flooding and foundering in the Port of Heysham



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## 2008 RECOMMENDATIONS - PROGRESS REPORT*

*Status as of 31 March 2018

## Fishing Vessel Safety Study

Fishing vessels
Accident dates: 1992 to 2006

## Analysis of UK Fishing Vessel Safety 1992 to 2006



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| No | Recommendation(s) to: | Department for Transport/ <br> Maritime and Coastguard Agency |
| :---: | :---: | :---: |
| 2008/174 | Agree the coherent resourced plan for reducing the fatality rate in the fishing industry (see recommendation 2008/173). |  |
|  |  | DfT: Appropriate action planned |
|  | MCA: Appropriate action planned: |  |
| No | Recommendation(s) to: | Maritime and Coastguard Agency |
| 2008/177 | Review the current requirements for safety training with particular reference to training assessment and refresher training. |  |
|  |  | Appropriate action planned: $\begin{gathered}\text { NO DATE } \\ \text { GIVEN }\end{gathered}$ |
| MAIB comment: <br> We are expecting a completion letter from MCA shortly. |  |  |

## 2007 RECOMMENDATIONS - PROGRESS REPORT*

*Status as of 31 March 2018

| Danielle | Report number: | 5/2007 |
| :--- | :--- | ---: |
| Fishing vessel | Accident date: | $06 / 06 / 2006$ |

## Major injuries sustained by a deckhand, 7 miles south-south-east of Falmouth



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Concussion
movement port work West drowned Name organs $\stackrel{\square}{\circ}$ Sailboat SAR limb lost length included ${ }^{\text {Un }}$ rank stranding $\begin{aligned} & \text { Ralling harbour }\end{aligned}$ North carried injured Directive $\stackrel{H}{\#}$ per explosion

 ocean worked Numbemon-commercial ${ }^{\text {L }}$ Otal vessele

Engine

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UK vessel accidents involving loss of life 79
UK merchant vessels >= 100gt
81
UK merchant vessels < 100gt 90
UK fishing vessels 91
Non-UK commercial vessels 99

For details of reporting requirements and terms used in this section please see Annex Statistics Coverage on page 100 and Glossary on page 106.

Charts 6 and 7: Deaths and injuries of merchant vessel and fishing vessel crew by part of body injured


Note: Rates may not add up due to rounding

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## UK VESSELS: ACCIDENTS TNVOLVING LOSS OF LIFE

Table 1: Loss of life in 2017 reported to the MAIB

| Date | Name of vessel | Type of vessel | Location | Accident |
| :---: | :---: | :---: | :---: | :---: |
| Merchant vessels 100 gt and over |  |  |  |  |
| - | - | - | - | - |
| Merchant vessels under 100gt (excluding commercial recreational) |  |  |  |  |
| 30 Oct | - | Workboat/ punt | River Aire at Leeds | Crewman fell overboard and drowned. |
| Fishing vessels |  |  |  |  |
| 23 Sep | Constant Friend (N83) | Stern trawler | Kilkeel harbour, County Down | Crewman fell into the harbour while boarding the vessel. He was retrieved but could not be revived. |
| 26 Sep | Solstice (PH199) | Stern trawler | 7 nm south-south-east of Plymouth | Capsize leading to the loss of the owner. |
| 6 Nov | Enterprise (SH323) | Potter | Off Scarborough, North Yorkshire | A crewman became caught in a string of pots and dragged overboard. He was recovered but could not be resuscitated. |
| 13 Nov | $\begin{aligned} & \text { Illustris } \\ & \text { (B119) } \end{aligned}$ | Stern trawler | Royal Quays, North Shields, Tyne and Wear | Crewman assumed to have fallen overboard while vessel was alongside. |
| 20 Nov | $\begin{aligned} & \text { Varuna } \\ & \text { (BRD684) } \end{aligned}$ | Creeler | West of Applecross Bay, west coast of Scotland | Single-handed skipper assumed to have fallen overboard. |
| Recreational craft (*including commercial recreational) |  |  |  |  |
| 5 Feb | - | Kayak | Off Portsoy, Aberdeenshire | Presumed capsize/person overboard. |
| 8 Mar | Bumpy Daze | Sailing yacht | Blyth, Northumberland | Person overboard while in harbour. |
| 15 Apr | - | Sailing dinghy | Off Gwbert, Cardigan Bay, Wales | A single-handed sailor drowned after capsizing and being unable to recover. |
| 6 May | - | Speedboat | Irish Sea/North Channel | Two people died when their boat foundered. |
| 25 Jun | Catherine J | Sailing yacht | Kirkwall, Orkney | Person fell overboard and drowned in harbour. |
| 6 Aug | James 2 | Angling boat | Outside the entrance to Shoreham harbour, West Sussex | Three people lost their lives following a collision at night with the fishing vessel Vertrouwen. |
| 2 Sep | - | Inflatable tender | Leverburgh, Isle of Harris, Outer Hebrides | A person died after entering the water to retrieve a lost oar. |

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| Date | Name of <br> vessel | Type of <br> vessel | Location | Accident |
| :--- | :--- | :--- | :--- | :--- |
| Recreational craft continued |  |  |  |  |
| 18 Sep | Snailblazer | Sailing yacht | Cromarty Firth, near <br> Invergordon, east coast of <br> Scotland | A boat owner fell into <br> water and drowned while <br> transferring from tender to <br> yacht. |
| 18 Nov | CV30 | Commercial <br> racing yacht | South Indian Ocean | A crew member fell overboard <br> while on the foredeck helping <br> to reduce sail. He was retrieved <br> but was unable to be revived. |

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## UK MERCHANT VESSELS >= 100GT

## Table 2: Merchant vessel total losses

There were no losses of UK merchant vessels reported to the MAIB in 2017.

Table 3: Merchant vessel losses - 2008-2017

|  | Number lost | UK fleet size | Gross tonnage lost |
| ---: | ---: | ---: | ---: |
| 2008 | 2 | 1578 | 645 |
| 2009 | 1 | 1564 | 274 |
| 2010 | - | 1520 | - |
| 2011 | - | 1521 | - |
| 2012 | - | 1450 | - |
| 2013 | - | 1392 | - |
| 2014 | - | 1385 | - |
| 2015 | - | 1365 | - |
| 2016 | - | 1356 | - |
| 2017 |  |  | -1 |



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Table 4: Merchant vessels in casualties by nature of casualty and vessel category 1

|  | $\begin{aligned} & \text { 응 } \\ & \text { Nㅜㄴ } \\ & \text { 응 } \\ & \text { in } \end{aligned}$ |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Collision | 2 | 5 | 6 | 21 | 1 | 35 |
| Contact | 1 | - | 4 | 1 | - | 6 |
| Damage to ship or equipment | 1 | - | 4 | 1 | - | 6 |
| Fire/explosion | 1 | - | 4 | 1 | - | 6 |
| Flooding/foundering | 1 | - | - | 1 | - | 2 |
| Grounding | 11 | - | 3 | 5 | - | 19 |
| Loss of control | 5 | 4 | 9 | 9 | 1 | 28 |
| Total | 22 | 9 | 30 | 39 | 2 | 102 |

(1) Vessel groups include vessels operating on inland waterways.

Note: 102 Casualties represents a rate of $\mathbf{7 5}$ casualties per 1000 vessels on the UK Fleet.
Table 5: Deaths and injuries to merchant vessel crew - 2008-2017²

|  | Crew injured | Of which resulted in death |
| ---: | ---: | ---: |
| 2008 | 224 | 5 |
| 2009 | 199 | 6 |
| 2010 | 222 | 3 |
| 2011 | 185 | 5 |
| 2012 | 186 | 3 |
| 2013 | 142 | 1 |
| 2014 | 141 | - |
| 2015 | 133 | 2 |
| 2016 | 153 | 2 |
| 2017 |  | - |

(2) From 2012 this table excludes injuries/fatalities that were not in connection with the operation of a ship.

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Table 6: Deaths and injuries of merchant vessel crew by rank


Chart 8: Deaths and injuries of merchant vessel crew by rank


Chart 9: Deaths and injuries of merchant vessel crew by place

Table 7: Deaths and injuries of merchant vessel crew by place

| \# |  |  |
| :---: | :---: | :---: |
|  | Bathroom, shower, toilet | 2 |
|  | Cabin space - crew | 4 |
|  | Cabin space - passengers | 1 |
|  | Elevator/lift | 1 |
|  | Galley spaces | 16 |
|  | Gymnasium | 1 |
|  | Laundry | 1 |
|  | Mess room, dayroom | 3 |
|  | Restaurant/bar | 2 |
|  | Stairway/ladders | 8 |
|  | Theatre | 2 |
|  | Accommodation, other | 1 |
| Bridge | Wheelhouse | 4 |
|  | Bunker tank | 1 |
|  | Cargo hold | 2 |
|  | Open deck cargo space | 1 |
|  | Ro-Ro vehicle deck ramp | 4 |
|  | Vehicle cargo space | 7 |


| 凹 |  | $\begin{aligned} & \text { " } \\ & \frac{1}{2} \\ & \text { © } \\ & \frac{3}{3} \frac{3}{2} \end{aligned}$ |
| :---: | :---: | :---: |
|  | Auxiliary engine room | 1 |
|  | Engine room | 13 |
|  | Workshop/stores | 1 |
|  | Other | 1 |
| $\frac{\circ}{\bar{\epsilon}}$ | Boat deck | 7 |
|  | Bridge deck | 1 |
|  | Freeboard deck | 10 |
|  | Forecastle deck | 9 |
|  | Gangway | 2 |
|  | Poop deck | 5 |
|  | Superstructure deck | 1 |
|  | Stairs/ladders | 14 |
|  | Over side | 2 |
|  | Other | 14 |
| Ashore (during access) |  | 2 |
| Unknown |  | 9 |
| Total |  | 153 |

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UK merchant vessels >= 100gt
Table 8: Deaths and injuries of merchant vessel crew by part of body injured

| Part of body injured |  | Number of crew |
| :---: | :---: | :---: |
|  | Whole body and multiple sites | 7 |
| Head | Facial area | 2 |
|  | Eye(s) | 2 |
|  | Head, brain and cranial nerves and vessels | 1 |
|  | Head, other | 1 |
| Neck, inclusive spine and vertebra in the neck |  | 2 |
| Upper limbs | Shoulder and shoulder joints | 12 |
|  | Arm, including elbow | 11 |
|  | Hand | 15 |
|  | Finger(s) | 19 |
|  | Wrist | 4 |
| Back, including spine and vertebrae in the back |  | 23 |
| Torso and organs | Rib cage, ribs including joints and shoulder blade | 7 |
|  | Chest area including organs | 2 |
|  | Pelvic and abdominal area including organs | 2 |
|  | Torso, multiple sites affected | 1 |
| Lower limbs | Hip and hip joint | 1 |
|  | Leg, including knee | 18 |
|  | Ankle | 9 |
|  | Foot | 10 |
|  | Toe(s) | 3 |
|  | Lower extremities, multiple sites affected | 1 |
| Total |  | 153 |

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Table 9: Deaths and injuries of merchant vessel crew by deviation*

| Deviation* |  | Number of crew |
| :---: | :---: | :---: |
| Body movement under or with physical stress (generally leading to an internal injury) | Lifting, carrying, standing up | 12 |
|  | Pushing, pulling | 5 |
|  | Putting down, bending down | 1 |
|  | Twisting, turning | 7 |
|  | Treading badly, twisting leg or ankle, slipping without falling | 1 |
|  | Other | 3 |
| Body movement without any physical stress (generally leading to an external injury) | Being caught or carried away, by something or by momentum | 22 |
|  | Uncoordinated movements, spurious or untimely actions | 6 |
| Breakage, bursting, splitting, slipping, fall, collapse of Material Agent* | Breakage, bursting - causing splinters (wood, glass, metal, stone, plastic, others) | 1 |
|  | Slip, fall, collapse of Material Agent* - from above (falling on the victim) | 2 |
|  | Slip, fall, collapse of Material Agent* - on the same level | 1 |
| Deviation* by overflow, overturn, leak, flow, vaporisation, emission | Liquid state - leaking, oozing, flowing, splashing, spraying | 3 |
|  | Gaseous state - vaporisation, aerosol formation, gas formation | 1 |
| Loss of control (total or partial) | Of machine (including unwanted start-up) or of the material being worked by the machine | 5 |
|  | Of means of transport or handling equipment, (motorised or not) | 4 |
|  | Of hand-held tool (motorised or not) or of the material being worked by the tool | 3 |
|  | Of object (being carried, moved, handled, etc) | 3 |
| Slipping - stumbling and falling - fall of persons | Fall of person - to a lower level | 33 |
|  | Fall of person - on the same level | 38 |
|  | Other | 1 |
| Deviation* due to electrical problems, explosion, fire | Fire, flare up | 1 |
|  | Total | 153 |

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Chart 10: Deaths and injuries of merchant vessel crew by deviation*
*See "Terms" on page 108

UK merchant vessels >= 100gt
Table 10: Deaths and injuries of merchant vessel crew by injury

| Main injury |  | Number of crew |
| :---: | :---: | :---: |
| Bone fractures | Closed fractures | 55 |
|  | Open fractures | 1 |
| Wounds and superficial injuries* | Superficial injuries* | 6 |
|  | Open wounds | 10 |
| Dislocations, sprains and strains | Dislocations and subluxations* | 10 |
|  | Sprains and strains | 40 |
|  | Other types of dislocations, sprains and strains | 5 |
| Concussion and internal injuries | Concussion and intracranial injuries | 1 |
|  | Internal injuries | 1 |
| Burns, scalds and frostbites | Burns and scalds (thermal) | 6 |
| Poisonings and infections | Poisonings and infections (other than acute) | 1 |
| Traumatic amputations (loss of body parts) |  | 4 |
| Other specified injuries not included under other headings |  | 4 |
|  | Multiple injuries | 5 |
| Unknown or unspecified |  | 4 |
| Total |  | 153 |

*See "Terms" on page 108

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Table 11: Deaths and injuries to passengers - 2008-2017 3 4

|  | Number of passengers | Of which resulted in death |
| ---: | ---: | ---: |
| 2008 | 170 | 2 |
| 2009 | 115 | 1 |
| 2010 | 92 | 2 |
| 2011 | 109 | 1 |
| 2012 | 50 | - |
| 2013 | 46 | 1 |
| 2014 | 56 | 1 |
| 2015 | 55 | 1 |
| 2016 | 51 | - |
| 2017 | 26 | 1 |

(3 From 2012 this table excludes injuries/fatalities that were not in connection with the operation of a ship.
(4) Between 2009 and 2011 eight cruise ships left the UK flag.

Table 12: Deaths and injuries of passengers by injury

| Main injury |  | Number of passengers |
| :---: | :---: | :---: |
| Bone fractures | Closed fractures | 20 |
| Concussion and internal injuries | Concussion and intracranial injuries | 1 |
| Dislocations, sprains and strains | Sprains and strains | 2 |
|  | Dislocations and subluxations* | 1 |
| Wounds and superficial injuries* | Open wounds | 1 |
| Traumatic amputations (loss of body parts) |  | 1 |
|  | Total | 26 |

*See "Terms" on page 108

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## UK MERCHANT VESSELS < 100GT

Table 13: Merchant vessels < 100gt - losses

| Date | Name of vessel | Type of vessel | loa | Casualty event |
| :--- | :--- | :--- | :--- | :--- |
| 31 Oct | CV24 | Sailing yacht | 23 m | Grounding |
| 7 Dec | Tyger Of London | Sailing yacht | 13 m | Capsizing |

Table 14: Merchant vessels < 100gt

|  |  |  |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capsizing/listing | - | - | - | 1 | - | 1 | - | 1 | 3 |
| Collision | - | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 13 |
| Contact | - | 5 | 2 | 1 | - | 2 | - | 4 | 14 |
| Damage to ship or equipment | 1 | - | - | 2 | 1 | 1 | - | - | 5 |
| Fire/explosion | - | 1 | - | - | 2 | - | - | 1 | 4 |
| Grounding | - | 2 | - | 10 | - | 2 | - | 1 | 15 |
| Loss of control | - | 7 | 2 | 3 | - | - | 1 | 5 | 18 |
| Total per vessel type | 1 | 17 | 6 | 18 | 4 | 9 | 3 | 14 | 72 |
| Deaths | - | - | - | 1 | - | - | - | 1 | 2 |
| Injuries | 1 | 4 | 10 | 9 | 1 | 13 | 2 | 11 | 51 |

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## UK FISHING VESSELS

There were 5700 UK registered fishing vessels at the end of 2017. During 2017, 146 casualties to vessels involving these vessels were reported to the MAIB. Figures in the following tables show casualties to vessels and injuries involving UK registered vessels that were reported to the MAIB in 2017.
6 fishing vessels were reported lost ( $0.11 \%$ of the total fleet) and there were 5 fatalities to crew.

Table 15: Fishing vessel total losses

| Date | Name of vessel | Age | Gross tons | Casualty event |
| :--- | :--- | :--- | :--- | :--- |

Under 15 m length overall (loa)

| 1 Jun | Jenikay | Unknown | 1.48 | Foundering |
| :--- | :--- | ---: | ---: | :--- |
| 8 Jun | Inshallah | 26 | 4.26 | Flooding |
| 26 Sep | Solstice | 17 | 9.23 | Capsizing |
| 16 Nov | Pisces | 4 | 2.37 | Flooding |
| 18 Dec | Adelphi | 11 | 2.4 | Grounding |

15m length overall - under 24 m registered length (reg)

| 3 Mar | Ocean Way | 21 | 268.00 | Foundering |
| :--- | :--- | :--- | :--- | :--- |

## Over 24m registered length (reg)

No losses of fishing vessels of 24 m and over were reported to the MAIB in 2017.

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UK fishing vessels
Table 16: Fishing vessel losses - 2008-2017 5

|  | Under 15m loa | $\begin{array}{r} \text { 15m loa to } \\ <24 \mathrm{~m} \text { reg } \end{array}$ | 24m reg and over | Total lost | registered | \% lost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2008 | 14 | 4 | 3 | 21 | 6763 | 0.31 |
| 2009 | 11 | 4 | - | 15 | 6222 | 0.24 |
| 2010 | 11 | 3 | - | 14 | 5902 | 0.24 |
| 2011 | 17 | 7 | - | 24 | 5974 | 0.40 |
| 2012 | 5 | 4 | - | 9 | 5834 | 0.15 |
| 2013 | 15 | 3 | - | 18 | 5774 | 0.31 |
| 2014 | 9 | 3 | - | 12 | 5715 | 0.21 |
| 2015 | 8 | 5 | - | 13 | 5746 | 0.23 |
| 2016 | 5 | 2 | 1 | 8 | 5745 | 0.14 |
| 2017 | 5 | 1 | - | 6 | 5700 | 0.11 |

© From 2012 this table excludes losses that were not in connection with the operation of a ship.

Table 17: Casualties to fishing vessels

|  | Number of vessels involved |
| ---: | ---: | ---: | | Incident rate per 1000 <br> vessels at risk (to one decimal place) |
| ---: |
| Capsizing/listing |
| Collision |
| Contact |

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Table 18: Fishing vessels in casualties - by nature of casualty

|  | Number of vessels involved | Incident rate per 1000 vessels at risk |
| :--- | :--- | :--- |

Under 15m length overall (loa) - vessels at risk: 5073

| Capsizing/listing | 2 | 0.4 |
| ---: | ---: | ---: | ---: |
| Collision | 11 | 2.2 |
| Contact | 2 | 0.4 |
| Fire/explosion | 2 | 0.4 |
| Flooding/foundering | 5 | 1.0 |
| Grounding/stranding | 6 | 1.2 |
| Loss of control | 70 | 13.8 |
| Total | $\mathbf{9 8}$ | $\mathbf{1 9 . 3}$ |

15m loa - 24m registered length (reg) - vessels at risk: 488

| Collision | 2 | 4.1 |
| ---: | ---: | ---: |
| Fire/explosion | 1 | 2.0 |
| Flooding/foundering | 5 | 10.2 |
| Grounding/stranding | 4 | 8.2 |
| Loss of control | 30 | 61.5 |
| Total | $\mathbf{4 2}$ | $\mathbf{8 6 . 1}$ |

24m reg and over - vessels at risk: 139

| Collision | 1 | 7.2 |
| ---: | ---: | ---: |
| Loss of control | 5 | 36.0 |
| Total | $\mathbf{6}$ | $\mathbf{4 3 . 2}$ |


| Total | 146 | 25.6 |
| ---: | ---: | ---: |

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UK fishing vessels
Table 19: Deaths and injuries to fishing vessel crew by injury

| Main injury |  | Number of crew |
| :---: | :---: | :---: |
| Drowning and asphyxiation | Drowning and non-fatal submersions | 6 |
| Traumatic amputations (Loss of body parts) |  | 2 |
| Bone fractures | Closed fractures | 8 |
|  | Open fractures | 2 |
| Burns, scalds and frostbites | Burns and scalds (thermal) | 2 |
| Dislocations, sprains and strains | Dislocations and subluxations | 1 |
|  | Sprains and strains | 2 |
| Wounds and superficial injuries | Superficial injuries | 1 |
|  | Open wounds | 7 |
| Other specified injuries not included under other headings |  | 1 |
|  | Total | 32 |



Chart 11: Deaths and injuries to fishing vessel crew by injury

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Table 20: Deaths and injuries to fishing vessel crew by part of body injured

| Part of body injured |  | Number of crew |
| :---: | :---: | :---: |
| Whole body and multiple sites | Whole body (systemic effects) | 5 |
|  | Multiple sites of the body affected | 1 |
| Head | Facial area | 3 |
|  | Eye(s) | 2 |
| Upper limbs | Arm, including elbow | 2 |
|  | Hand | 6 |
|  | Finger(s) | 3 |
|  | Shoulder and shoulder joints | 2 |
|  | Wrist | 1 |
| Torso and organs | Rib cage, ribs including joints and shoulder blade | 2 |
| Lower limbs | Leg, including knee | 4 |
| Other parts of body injured, not mentioned above |  | 1 |
|  | Total | 32 |

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Table 21: Deaths and injuries of fishing vessel crew by deviation*

| Deviation* |  | Number of crew |
| :---: | :---: | :---: |
| Body movement without any physical stress (generally leading to an external injury) | Being caught or carried away, by something or by momentum | 5 |
| Body movement under or with physical stress (generally leading to an internal injury) | Pushing, pulling | 2 |
|  | Twisting, turning | 1 |
| Breakage, bursting, splitting, slipping, fall, collapse of Material Agent* | Breakage, bursting - causing splinters (wood, glass, metal, stone, plastic, others) | 1 |
|  | Slip, fall, collapse of Material Agent* - from above (falling on the victim) | 3 |
|  | Slip, fall, collapse of Material Agent - on the same level | 1 |
| Deviation due to electrical problems, explosion, fire | Explosion | 1 |
|  | Fire, flare up | 1 |
| Loss of control (total or partial) | Of machine (including unwanted start-up) or of the material being worked by the machine | 1 |
|  | Of means of transport or handling equipment, (motorised or not) | 3 |
|  | Of hand-held tool (motorised or not) or of the material being worked by the tool | 2 |
|  | Of object (being carried, moved, handled, etc) | 2 |
| Slipping - stumbling and falling - fall of persons | Fall of person - to a lower level | 1 |
|  | Fall overboard of person | 5 |
|  | Fall of person - on the same level | 2 |
| No information |  | 1 |
|  | Total | 32 |

*See "Terms" on page 108

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Chart 12: Deaths and injuries of fishing vessel crew by deviation*

## UK fishing vessels

Table 22: Deaths and injuries to fishing vessel crew by vessel length (of which, deaths shown in brackets) 2008-2017 ©

|  | Under 15m loa |  | 15 m loa - under 24m reg |  | 24m reg and over |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2008 | 19 | (3) | 22 | (4) | 19 | (1) | 60 | (8) |
| 2009 | 32 | (5) | 30 | (7) | 13 | (1) | 75 | (13) |
| 2010 | 22 | (4) | 10 | - | 13 | (1) | 45 | (5) |
| 2011 | 20 | (7) | 27 | (1) | 11 | - | 58 | (8) |
| 2012 | 21 | (4) | 22 | (2) | 7 | - | 50 | (6) |
| 2013 | 13 | (3) | 13 | (1) | 7 | - | 33 | (4) |
| 2014 | 22 | (5) | 14 | (3) | 10 | - | 46 | (8) |
| 2015 | 10 | (4) | 17 | (1) | 8 | (2) | 35 | (7) |
| 2016 | 16 | (7) | 19 | (2) | 5 | - | 40 | (9) |
| 2017 | 13 | (3) | 8 | (2) | 11 | - | 32 | (5) |

(2From 2012 this table excludes injuries/fatalities that were not in connection with the operation of a ship.


Chart 13: Deaths and injuries to fishing vessel crew

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## NON-UK COMMERCIAL VESSELS

Table 23: Non-UK commercial vessels total losses in UK waters

| Date | Name of vessel | Type of vessel | Flag | loa | Casualty event |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 5 Jun | Valparaiso | Sailing yacht | France | 12.5 m | Grounding - Isles of <br> Scilly |

Table 24: Non-UK commercial vessels in UK waters

|  |  |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |

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## ANNEX A - STATISTICS COVERAGE

1. Data is presented by the year in which the incident was reported to the MAIB. Historic data tables contain information from the past 10 years.
2. Not all historical data can be found in this report. Further data is contained in previous MAIB Annual Reports.
3. United Kingdom ships are required by the Merchant Shipping (Accident Reporting and Investigation) Regulations $2012^{6}$ to report accidents to the MAIB.
4. Accidents are defined as being Marine Casualties or Marine Incidents, depending on the type of event(s) and the results of the event(s). See Casualty definitions (see Annex B on page 101) or MAIB's Regulations for more information.
5. Details of vessel types and groups used in this Annual Report can be found in Annex B - supporting information on page 104.
6. Non-UK flagged vessels are not required to report accidents to the MAIB unless they are within a UK port/harbour or within UK 12 mile territorial waters and carrying passengers to or from a UK port. However, the MAIB will record details of, and may investigate, significant accidents notified to us by bodies such as H.M. Coastguard.
7. The Maritime and Coastguard Agency, harbour authorities and inland waterway authorities have a duty to report accidents to the MAIB.
8. In addition to the above, the MAIB monitors news and other information sources for relevant accidents.

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## ANNEX B - SUPPORTNG TNFORMATION

## Casualty definitions used by the UK MAIB - from 2012

## Marine Casualty ${ }^{7}$

An event or sequence of events that has resulted in any of the following and has occurred directly by or in connection with the operation of a ship:

- the death of, or serious injury to, a person;
- the loss of a person from a ship;
- the loss, presumed loss or abandonment of a ship;
- material damage to a ship;
- the stranding or disabling of a ship, or the involvement of a ship in a collision;
- material damage to marine infrastructure external of a ship, that could seriously endanger the safety of the ship, another ship or any individual;
- pollution, or the potential for such pollution to the environment caused by damage to a ship or ships.

A Marine Casualty does not include a deliberate act or omission, with the intention to cause harm to the safety of a ship, an individual or the environment.
Each Marine Casualty is categorised as ONE of the following:

## Very Serious Marine Casualty (VSMC)

Marine Casualty which involves total loss of the ship, loss of life, or severe pollution.

## Serious Marine Casualty (SMC)

Marine Casualty where an event results in one of:

- immobilisation of main engines, extensive accommodation damage, severe structural damage, such as penetration of the hull underwater, etc., rendering the ship unfit to proceed;
- pollution;
- a breakdown necessitating towage or shore assistance.


## Less Serious Marine Casualty (LSMC)

This term is used by MAIB to describe any Marine Casualty that does not qualify as a VSMC or a SMC.

## Marine Incident (MI)

A Marine Incident is an event or sequence of events other than those listed above which has occurred directly in connection with the operation of a ship that endangered, or if not corrected would endanger the safety of a ship, its occupants or any other person or the environment (e.g. close quarters situations are Marine Incidents).
Note that under some IMO guidelines Less Serious Marine Casualties INCLUDE Marine Incidents. In UK data Less Serious Marine Casualties (and any other Marine Casualties) EXCLUDE Marine Incidents.

## Accident

Under current Regulations ${ }^{6}$ Accident means any Marine Casualty or Marine Incident. In historic data, Accident had a specific meaning, broadly equivalent to (but not identical to) Marine Casualty.

## Operation of a ship

To qualify as a Marine Casualty an event/injury etc must be in connection with the operation of the ship on which it occurs. MAIB's interpretation of this includes any "normal" activities which take place on board the vessel (e.g. a chef who cuts himself while preparing food is considered in connection with the operation of the ship).

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## Changes to UK MAIB Casualty Event Definitions - with introduction of EU Directive 2009/18/EC1 (the Directive).

Collisions/Contacts - Until 2012 the UK defined a collision as a vessel making contact with another vessel that was subject to the collision regulations, after 2012 a collision is any contact between two vessels, i.e.

## Until 2012

Collision - vessel hits another vessel that is underway, floating freely or is anchored.
Contact - vessel hits an object that is not subject to the collision regulations e.g. buoy, post, dock, floating logs, containers etc. Also another ship if it is tied up alongside. In order to qualify as the equivalent of a Marine Casualty the contact must have resulted in damage.

## From 2013

Collision - a casualty caused by ships striking or being struck by another ship, regardless of whether the ships are underway, anchored or moored.

This type of casualty event does not include ships striking underwater wrecks. The collision can be with other ship or with multiple ships or ship not underway.
Contact - a casualty caused by ships striking or being struck by an external object. The objects can be: floating object (cargo, ice, other or unknown); fixed object, but not the sea bottom; or flying object.

Injury - The EU requires injuries to be reported if they are "3 day" injuries. This is described in more detail in section 4.2 of the European Statistics on Accidents at Work (ESAW) Summary methodology ${ }^{8}$ (Note that in this context the term "Accident" means an injury.)
"Accidents at work with more than three calendar days' absence from work. Only full calendar days of absence from work have to be considered, excluding the day of the accident. Consequently, 'more than three calendar days' means 'at least four calendar days', which implies that only if the victim resumes work on the fifth (or subsequent) working day after the date on which the accident occurred should the incident be included."

UK injury data also includes "serious" injuries. In addition to " 3 day" injuries these are:

- any fracture, other than to a finger, thumb or toe;
- any loss of a limb or part of a limb;
- dislocation of the shoulder, hip, knee or spine;
- loss of sight, whether temporary or permanent;
- penetrating injury to the eye;
- any other injury -
- leading to hypothermia or unconsciousness,
- requires resuscitation, or
- requiring admittance to a hospital or other medical facility as an inpatient for more than 24 hours;

In the IMO Casualty Investigation Code ${ }^{9}$ (section 2.18) Serious injury means an injury which is sustained by a person in a casualty resulting in incapacitation for more than 72 hours commencing within seven days from the date of injury.
Due to the special working conditions of seafarers, injuries to seafarers while off-duty are considered to be occupational accidents in MAIB Annual Reports ${ }^{10}$.

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## Machinery/Loss of control/Damage to Equipment

## Until 2012

The UK used the generic term "Machinery" to describe most mechanical failures that caused problems to a vessel. In order to be considered the equivalent of a Marine Casualty the vessel needed to be not under command for a period of more than 12 hours, or the vessel needed assistance to reach port.

## From 2013

While the IMO does not specify Machinery in its list of serious casualty events (MSC-MEPC.3/ Circ. $3^{11}$ ), it does define a Marine Casualty by the results and uses the term "etc" in the list of serious casualty events.
The European Union and the UK may interpret machinery failures as either:

- Loss of control - a total or temporary loss of the ability to operate or manoeuvre the ship, failure of electric power, or to contain on board cargo or other substances:
- Loss of electrical power is the loss of the electrical supply to the ship or facility;
- Loss of propulsion power is the loss of propulsion because of machinery failure;
- Loss of directional control is the loss of the ability to steer the ship;
- Loss of containment is an accidental spill or damage or loss of cargo or other substances carried on board a ship.
or,
- Damage to equipment - damage to equipment, system or the ship not covered by any of the other casualty types.


## Stranding/Grounding

## Until 2012

Grounds means making involuntary contact with the ground, except for touching briefly so that no damage is caused.

## From 2013

Grounding/stranding - a moving navigating ship, either under command, under power, or not under command, drifting, striking the sea bottom, shore or underwater wrecks.

## Persons overboard

Until 2012
Any fall overboard from a ship or ship's boat was the equivalent of a Marine Casualty.
From 2013
Any fall overboard from a ship or ship's boat (that does not result in injury or fatality) is a Marine Incident.

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## Vessel Types included in MAIB Annual Report statistics from 2013 to date

1. MAIB use definitions in line with those used by EMSA and IMO. EXCEPT that the data presented in the MAIB Annual Reports includes certain vessel types that are outside the scope of EU Directive 2009/18/EC ${ }^{12}$ (the Directive).
2. Vessel types outside the scope of the Directive that are INCLUDED in MAIB Annual Report statistics:

- Fishing vessels of under 15 metres;
- Government owned vessels used on government service (except Royal Navy vessels);
- Inland waterway vessels operating in inland waters;
- Ships not propelled by mechanical means;
- Wooden ships of primitive build;
- Commercial recreational craft with fewer than 13 persons on board.

3. Vessel types outside the scope of the Directive that are EXCLUDED from MAIB Annual Reports:

- Royal Navy vessels;
- Fixed offshore drilling units.

4. Vessel Types (potentially) inside the scope of the Directive that are EXCLUDED from MAIB Annual Report statistics:

- Recreational craft | Personal watercraft;
- Recreational craft|Sailing surfboards;
- Ships permanently moored which have no master or crew.

5. One "vessel" type, offshore drilling rigs, are inside the scope of the Directive, but usually outside the scope of MAIB. For UK-flagged installations, broadly, if an accident occurs while the installation is in transit MAIB investigate and record details, otherwise the Health and Safety Executive (HSE) is responsible for investigating and recording details. More information can be found on pages 40 to 41 of the Operational Working Agreement between MAIB, MCA \& HSE ${ }^{13}$.
6. Until 2012 the UK considered SAR craft to be non-commercial. From 2013 onwards they are considered commercial.

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## Vessel categories used in MAIB Annual Report statistics from 2013 to date

## Merchant vessels >=100gt

Trading and non-trading vessels of 100 gross tonnage (gt) or more (excluding fish processing and catching). Note that this category includes vessel types such as inland waterway vessels and vessels on government service that are specifically excluded from the scope of the Directive ${ }^{12}$. It excludes Royal Navy vessels and platforms and rigs that are in place.

## Merchant vessels <100gt

Vessels of under 100gt known, or believed to be, operated commercially (excluding fish processing and catching).

## Commercial recreational

May be a subset of either of the above two entries. Those over 100 gt may be, for instance, a tall ship or luxury yacht. Those under 100 gt may be a chartered yacht or a rented dinghy.

## UK fishing vessels

Commercial Fishing Vessels Registered with the UK Maritime and Coastguard Agency's Registry of Shipping and Seamen. Note that this category includes under 15 metre fishing vessels that are specifically excluded from the scope of the Directive.

## Passenger

In addition to seagoing passenger vessels this category also includes inland waterway vessels operating on inland waters.

## Service ship

Includes, but not limited to, dredgers, offshore industry related vessels, tugs and SAR craft.

## Recreational craft

Recreational craft may be commercial or non-commercial. In the statistics section of each Annual Report only "Table 1: Loss of life..." includes non-commercial recreational craft.

## Non-UK vessels in UK waters

Vessels that are not known, or believed to be, UK vessels, and the events took place in UK territorial waters (12 mile limit).

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## GLOSSARY OF ABBREVATIONS, ACRONYMS AND TERMS

## Abbreviations and Acronyms 4

ABP - Associated British Ports
AIS - Automatic Identification System
APMF - Agence Portuaire, Maritime et Fluviale
BBC - British Broadcasting Corporation
BDEAP Bridge Design, Equipment Arrangement and Procedures
Circ. - Circular
CO - Carbon monoxide
$\mathrm{CO}_{2}$ - Carbon dioxide
COLREGS - The International Regulations for Preventing Collisions at Sea 1972, as amended
CPA - Closest Point of Approach
DfT - Department for Transport
DSC - Digital Selective Calling
ECDIS - Electronic Chart Display and Information System
EMSA - European Maritime Safety Agency
EPIRB - Emergency Position Indicating Radio Beacon
ESAW - European Statistics on Accidents at Work
EU
FISG
fv
GM
GNSS
GRP
gt
HMCG
HMPE
HMSF
HSE
ILO
IMO
IOSH
ISAF
ISGOTT
ISO
JTSB
kg
kN
LOA
LOLER

LSA

- European Union
- Fishing Industry Safety Group
- fishing vessel
- Metacentric height
- Global Navigation Satellite System
- Glass Reinforced Plastic
- gross tonnage
- Her Majesty's Coastguard
- High Modulus Polyethylene
- High Modulus Synthetic Fibre
- Health and Safety Executive
- International Labour Organization
- International Maritime Organization
- Institution of Occupational Safety and Health
- International Sailing Federation (now World Sailing)
- International Safety Guide for Oil Tankers and Terminals
- International Organization for Standardization
- Japan Transport Safety Board
- kilogram
- kilonewton
- Length overall
- Lifting Operations and Lifting Equipment Reguations
- Liquefied Natural Gas
- Life Saving Appliance


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| LSMC | Less Serious Marine Casualty |
| :---: | :---: |
| Ltd | - Limited (company) |
| m | - metre |
| MCA | - Maritime and Coastguard Agency |
| MGN | - Marine Guidance Note (M+F) - Merchant and Fishing (F) - Fishing |
| MI | - Marine Incident |
| MMO | - Marine Management Organisation |
| MOB | - Manoverboard |
| MSC | - Maritime Safety Committee |
| MSIS | - Merchant Shipping Instructions to Surveyors |
| MSN | - Merchant Shipping Notice |
| n/a | - Not Applicable |
| No. | - Number |
| nm | - nautical mile |
| OCIMF | - Oil Companies International Marine Forum |
| OOW | - Officer of the watch |
| OSR | - Offshore Special Regulations |
| PFDs | - Personal Flotation Devices |
| PLA | - Port of London Authority |
| PLB | - Personal Locator Beacon |
| PUWER reg | - Provision and Use of Work Equipment Regulations (1998) <br> - registered |
| RCD | - Recreational Craft Directive |
| RIB | - Rigid Inflatable Boat |
| Ro-ro | - Roll on, roll off vessel |
| RYA | - Royal Yachting Association |
| SAR | - Search and Rescue |
| SCV Code | - Small Commercial Vessel Code |
| SIAS | - Ship Inspections and Surveys |
| SIGTTO | - Society of International Gas Tanker and Terminal Operators |
| SMC | - Serious Marine Casualty |
| SOLAS | - Safety of Life at Sea |
| SPM | - Single Point Mooring |
| TCPA | - Time to Closest Point of Approach |
| TSGC | - Tanker Safety Guide (Chemicals) |
| UK | - United Kingdom |
| VHF | - Very High Frequency |
| VSMC | - Very Serious Marine Casualty |
| VTS | - Marine Traffic Service |

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## - Terms 4

| Deviation | The last event differing from the normal working process and leading to an injury/fatality. |
| :---: | :---: |
| DUKW | A DUKW (commonly pronounced "duck") is an amphibious landing vehicle that was designed to transport military personnel and supplies for the United States Army during World War 2. The acronym DUKW indicates that it was designed in 1942 (D), it is an amphibious (U) vehicle and has both frontwheel and rear-wheel drive capability (K and W, respectively). |
| Material Agent | A tool, object or instrument. |
| MSL | Maximum Securing Load. MSL can be expressed in kN, kg or t; e.g. a 100 kN lashing is also referred to as a $10,000 \mathrm{~kg}$ or 10 t lashing. The variations in quantifier in the report reflects the variation in the source documentation. It is a term used to define the allowable load capacity for a device used to secure cargo to a ship. |
| Subluxation | Incomplete, or partial dislocation. |
| Superficial injuries | Bruises, abrasions, blisters etc. |
| the Directive | EU Directive 2009/18/E |

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Marine Accident Investigation Branch
First Floor, Spring Place
105 Commercial Road
Southampton
SO15 1GH

## Email

maib@dft.gov.uk

## General Enquiries

+44 (0)23 80395500

24 hour accident reporting line
+44 (0)23 80232527

## Press enquiries

01932440015

## Press enquiries (out of office hours)

02079444292

## Online resources

www.gov.uk/maib
https://twitter.com/maibgovuk
www.facebook.com/maib.gov

- www.youtube.com/user/maibgovuk
www.linkedin.com/company/marine-accident-investigation-branch
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[^0]:    ${ }^{1}$ As defined in Annex B on page 101.

[^1]:    (1) Formula 4 powerboats investigation report (No 6/2018) published on 12 April 2018.
    (2) CV24 is under investigation.
    (3) Administrative inquiry.

[^2]:    (1) Carol Anne investigation report (no 11/2016) published on 9 June 2016.

[^3]:    ${ }^{2}$ British Marine Federation now known as British Marine.

[^4]:    www.gov.uk/government/uploads/system/uploads/attachment_data/file/359941/MAIB_Annual_Report_2013.pdf

[^5]:    ${ }^{5}$ Due to similarities between the accidents MAIB took the decision to publish its findings as a combined report.

[^6]:    *See "Terms" on page 108

[^7]:    ${ }^{6}$ https://www.gov.uk/government/organisations/marine-accident-investigation-branch/about\#regulations-and-guidance

[^8]:    7 http://www.legislation.gov.uk/uksi/2012/1743/regulation/3/made

[^9]:    ${ }^{8} \mathrm{http}: / / \mathrm{ec}$. europa.eu/eurostat/en/web/products-manuals-and-guidelines/-/KS-RA-12-102
    ${ }^{9}$ http://www.imo.org/en/OurWork/MSAS/Casualties/Documents/Res.\%20MSC.255(84)\%20Casualty\%20linvestigation\%20Code. pdf
    ${ }^{10}$ http://www.ilo.org/dyn/normlex/en/f?p=NORMLEXPUB:91:0....:P91_SECTION:MLC_A4 (Article II 1.(f) \& Standard A4.3)

[^10]:    ${ }^{11}$ http://www.imo.org/en/OurWork/MSAS/Casualties/Documents/MSC-MEPC.3-Circ.3.pdf

[^11]:    ${ }^{12}$ http://emsa.europa.eu/emsa-documents/legislative-texts/72-legislative-texts/28-directive-200918ec.html
    ${ }^{13}$ Refer to pages 11 and 12 of the Operational Working Agreement between HSE, MCA and MAIB: http://www.hse.gov.uk/aboutus/howwework/framework/mou/owa-hse-mac-maib.pdf

