



MARINE CASUALTIES AND INCIDENTS

**PRELIMINARY ANNUAL OVERVIEW
OF MARINE CASUALTIES
AND INCIDENTS 2014-2020**

April 2021

Foreword

Based on casualties reported by the national accident investigation bodies of the EU, the total number of casualties in 2020 has reduced 18% in comparison with 2019. Such positive result should be considered within the context of the on-going Coronavirus (COVID-19) pandemic, which has been impacting the intensity of global shipping.

The most positive results were found in the number of lives lost (reduction of 48% in 2020 compared to the year 2019) and the number of injured persons (drop of 36%).

Between 2019 and 2020, figures indicate a reduction of occurrences for almost all ship types, with a greater reduction for cargo ships (15%) and passenger ships (44%). However, the number of fishing vessels involved in marine accidents remained at a similar level in 2020, as fishing activity was likely much less impacted by the COVID-19 pandemic.

Navigational events (collisions, groundings and contacts) represented the biggest part of casualties with a ship (43%). A reduction of 15% of casualties with a ship was noted.

Accident to persons represented 37% of all marine casualties. In comparison with 2019, a drop of 28% was noted.

In 2020, 7 vessels were lost, 5 of them being fishing vessels.

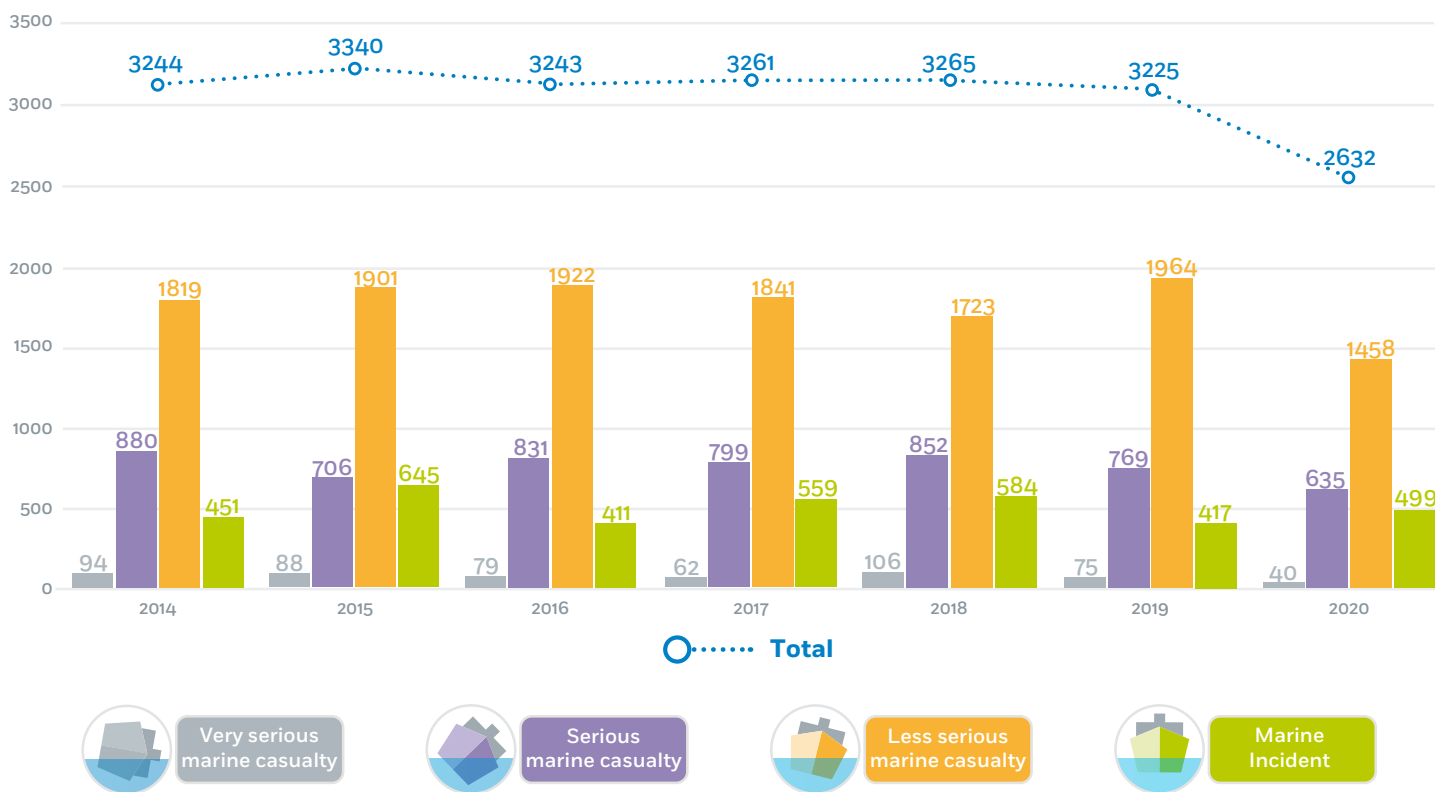
The number of pollutions resulting from marine casualties continued decreasing in 2020. Since 2014, an overall reduction of 68% was noted.

Accident Investigation bodies of the European Union have launched 923 investigations during the past 6 years, among them 757 were concluded. 74 investigations were initiated in 2020. The overall number of investigations led to 2011 safety recommendations and actions taken, targeting mainly Ship Related Procedures / Operations and Human Factors / Training, skills and experience.

Overview of key figures for 2020

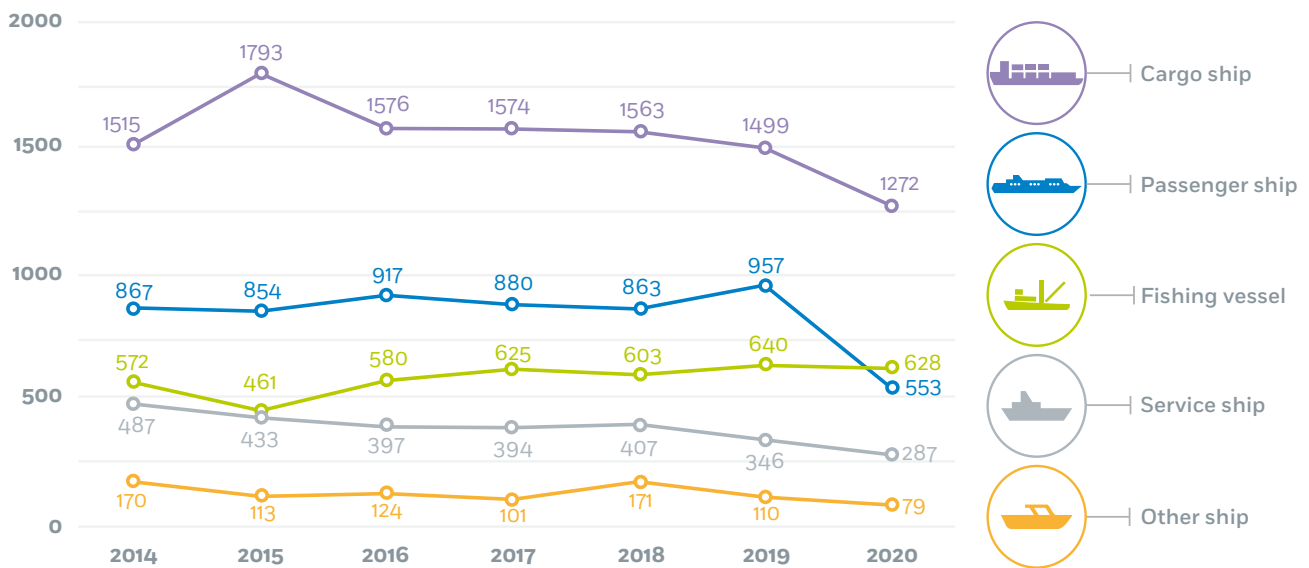


Severity of marine casualties and incidents



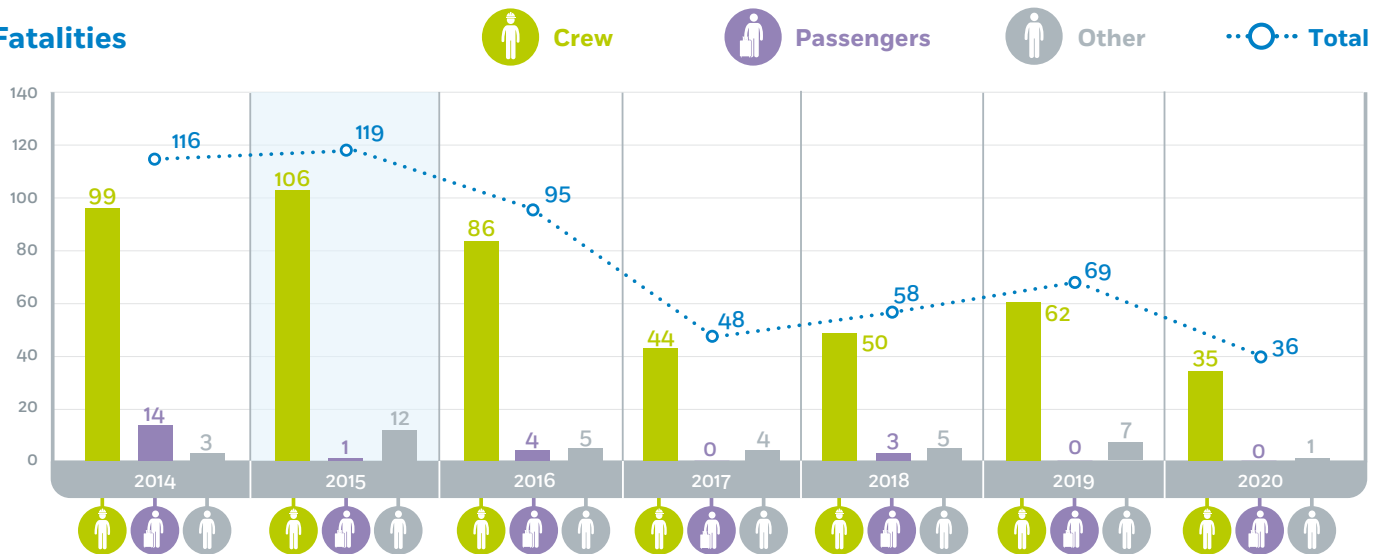
Grounding of M/V Rinella M near Barbarinac Island (Croatia) on 06/02/2020. Photo credit: HR/AIN

Ship types involved

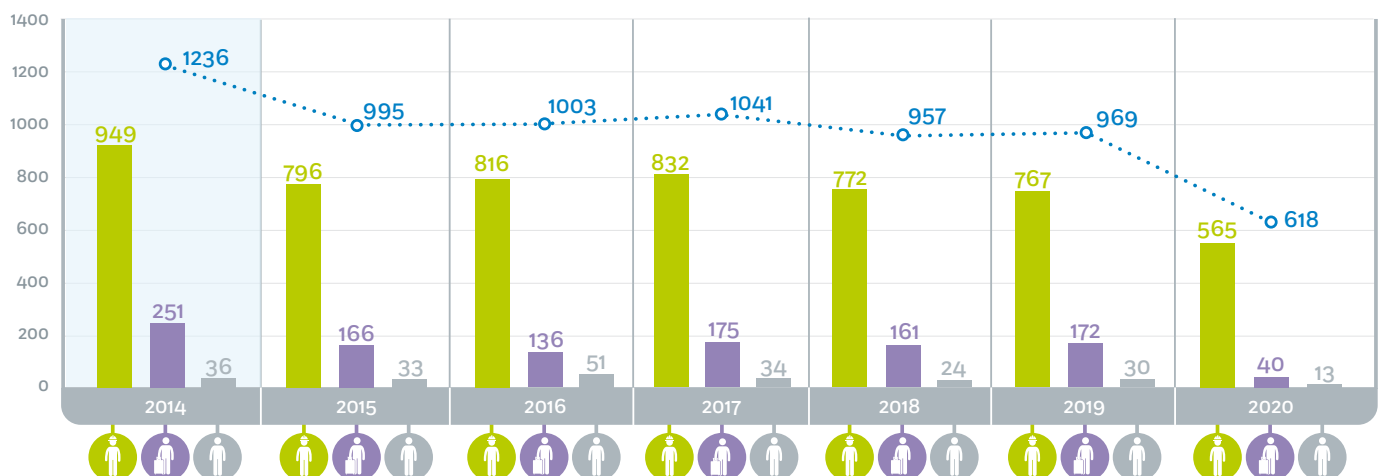


Consequences to persons











Fatalities











Injuries



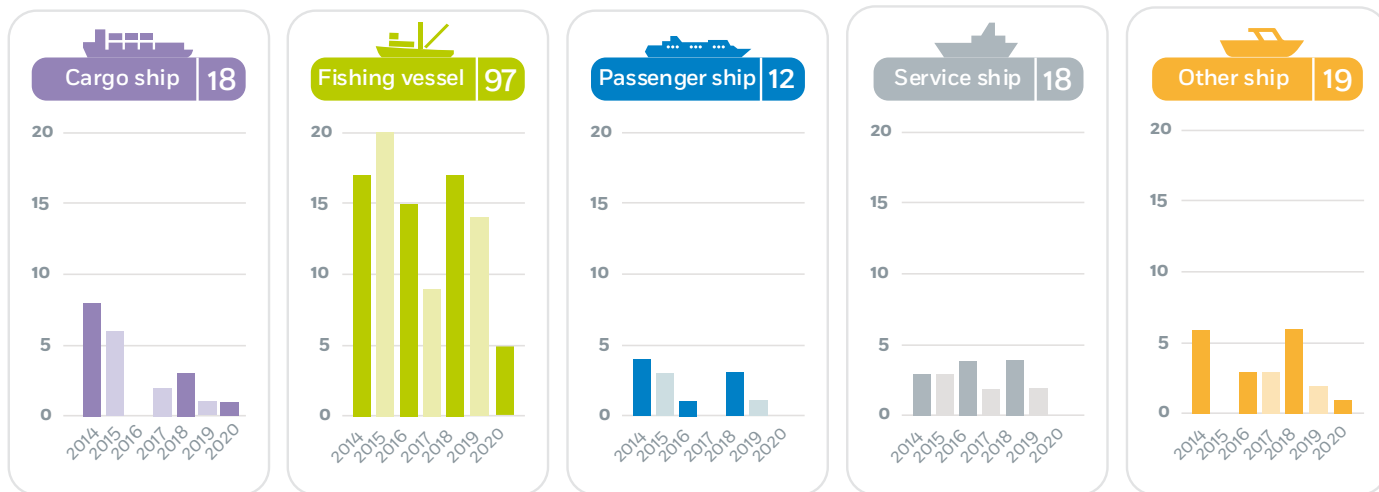
Casualties with ships

| | | Repartition 2014/2020 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Progression 2019/2020 |
|---------------------------------|---|--------------------------|------|------|------|------|------|------|------|--------------------------|
| Capsizing/ Listing |  | 0.7% | 18 | 21 | 12 | 19 | 19 | 20 | 7 | ↓ |
| Collision |  | 12.8% | 334 | 296 | 320 | 297 | 293 | 295 | 165 | ↓ |
| Contact |  | 17.2% | 393 | 409 | 357 | 424 | 393 | 370 | 349 | ↓ |
| Damage/ loss of equipment |  | 14.7% | 289 | 363 | 358 | 314 | 348 | 320 | 310 | ↓ |
| Fire/Explosion |  | 6.3% | 161 | 175 | 134 | 134 | 138 | 134 | 115 | ↓ |
| Flooding/ Foundering |  | 2.7% | 82 | 78 | 53 | 71 | 43 | 56 | 40 | ↓ |
| Grounding/ stranding |  | 13% | 335 | 332 | 295 | 298 | 312 | 253 | 216 | ↓ |
| Hull failure |  | 0.4% | 7 | 17 | 22 | 5 | 5 | 4 | 2 | ↓ |
| Loss of control |  | 32.1% | 602 | 583 | 684 | 756 | 772 | 863 | 767 | ↓ |
| Missing |  | 0% | 0 | 0 | 2 | 1 | 1 | 2 | 1 | ↓ |

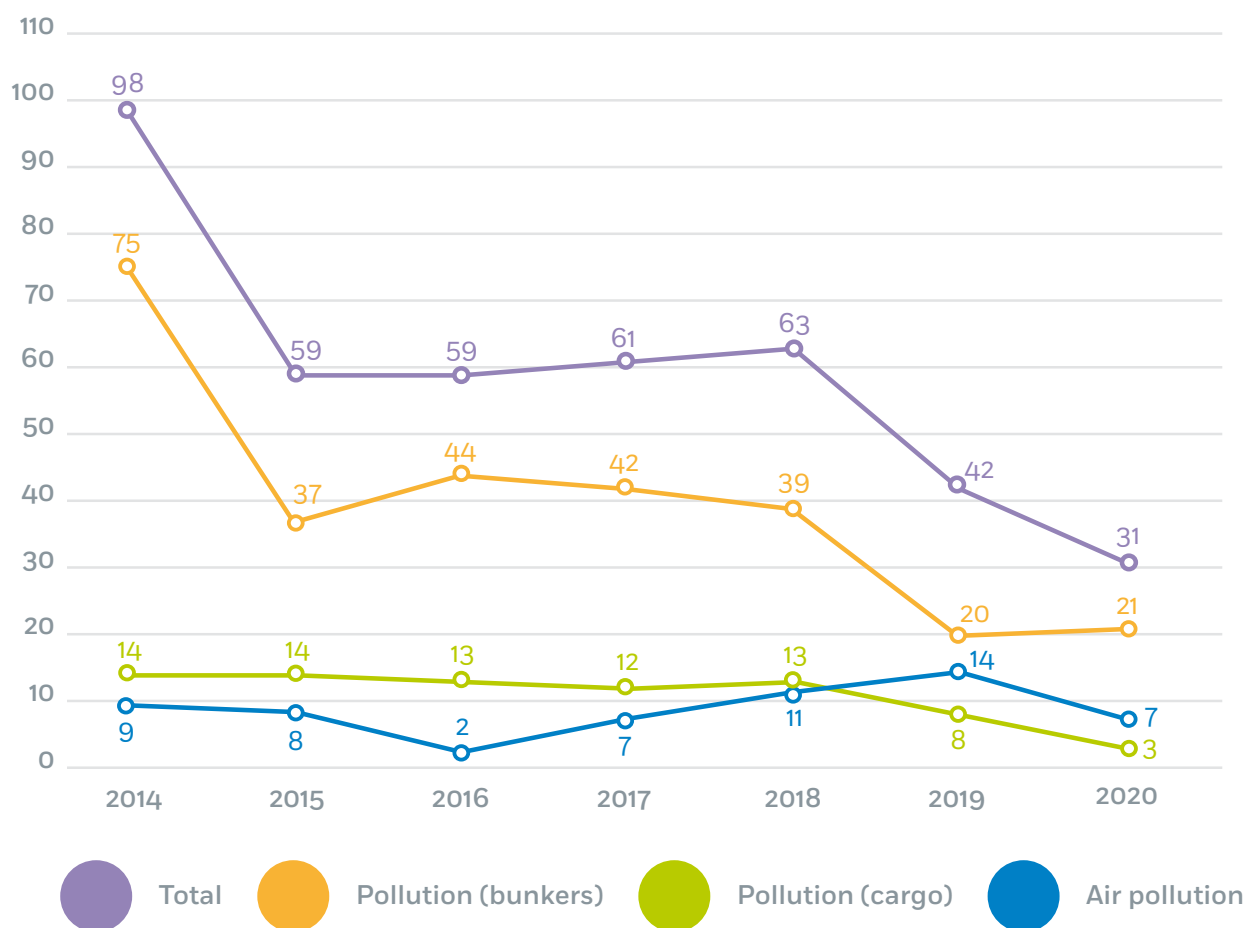
Accidents to persons

| | | Repartition 2014/2020 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Progression 2019/2020 |
|---|---|--------------------------|------|------|------|------|------|------|------|--------------------------|
| Body movement under or with physical stress |  | 7.6% | 54 | 51 | 69 | 67 | 108 | 87 | 87 | ↓ |
| Body movement without any physical stress |  | 19.9% | 208 | 227 | 209 | 164 | 165 | 239 | 162 | ↓ |
| Breakage, bursting, splitting, fall, collapse of material agent |  | 7.7% | 100 | 92 | 72 | 67 | 70 | 68 | 60 | ↓ |
| Deviation by overflow, overturn, leak, flow, vaporisation, emission |  | 4.4% | 48 | 68 | 41 | 32 | 39 | 40 | 34 | ↓ |
| Deviation due to electrical problems, explosion, fire |  | 1.4% | 20 | 22 | 15 | 7 | 14 | 7 | 9 | ↑ |
| Loss of control of machine, means of transport, handling equipment |  | 17.3% | 200 | 204 | 179 | 205 | 174 | 138 | 94 | ↓ |
| Slipping - Stumbling and falling - Fall of persons |  | 36.7% | 423 | 403 | 388 | 366 | 364 | 374 | 218 | ↓ |
| Other / Unspecified |  | 5.1% | 17 | 47 | 60 | 65 | 60 | 47 | 56 | ↑ |

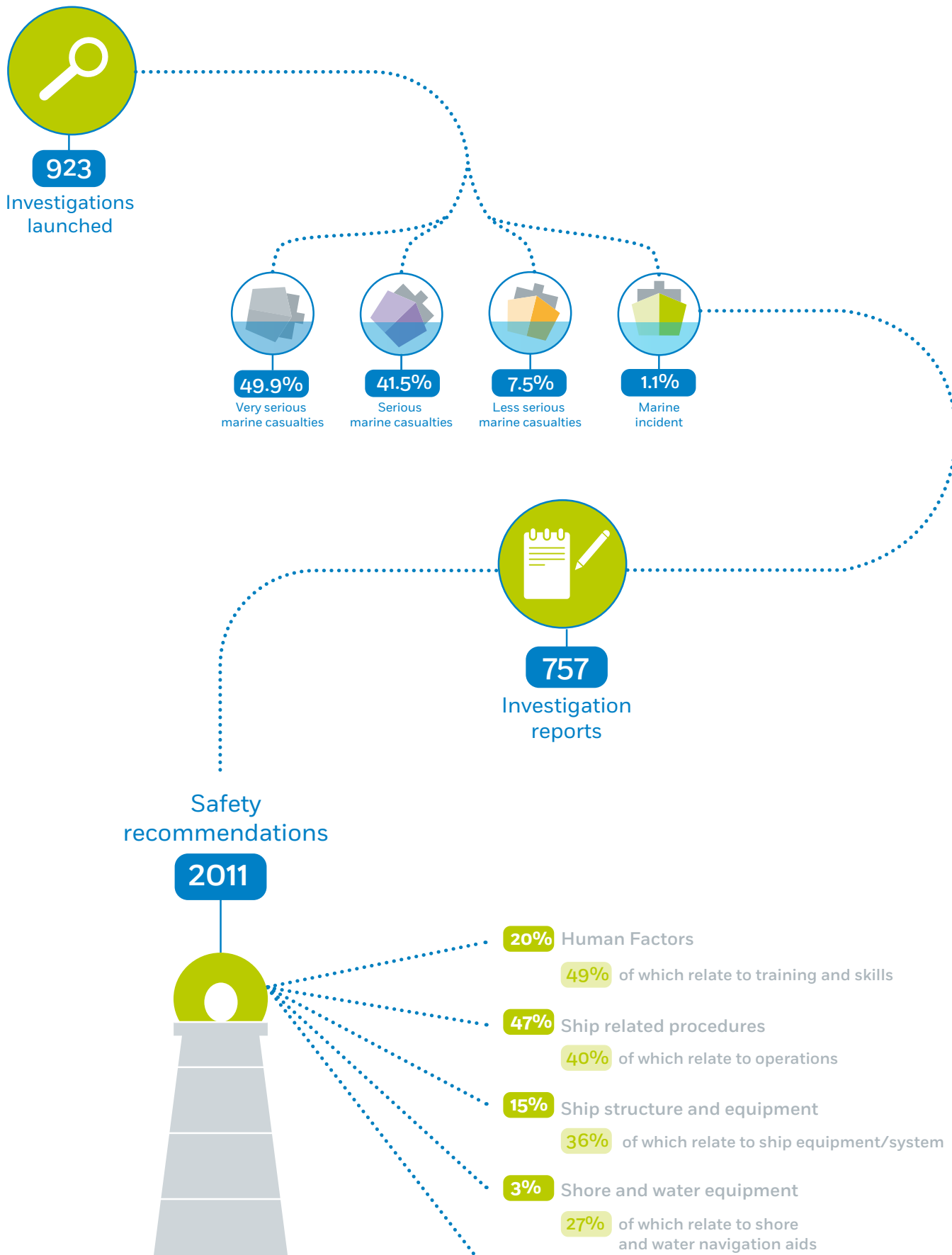
Loss of ships



Pollutions resulting from marine accidents



Investigations and outcomes





ABOUT THE EUROPEAN MARITIME SAFETY AGENCY

The European Maritime Safety Agency is one of the European Union's decentralised agencies. Based in Lisbon, the Agency's mission is to ensure a high level of maritime safety, maritime security, prevention of and response to pollution from ships, as well as response to marine pollution from oil and gas installations. The overall purpose is to promote a safe, clean and economically viable maritime sector in the EU.

ABOUT CASUALTY DATA AND EMCIP

This publication contains statistics on marine casualties and incidents that: involve ships flying a flag of one of the EU Member States; occur within EU Member States' territorial sea and internal waters; or involve other substantial interests of the EU Member States.

The figures presented provide a general overview of the safety of maritime transport in the scope of European interests.

More detailed information can be found at:

www.emsa.europa.eu/accident-investigation-publications.html

and at:

www.portal.emsa.europa.eu/emcip-public/#/public-occurrences

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Photo credits

Cover image: Fire on board M/V New Diamond on 03/09/2020 (Sri Lanka Navy); Back page: Collision in Baltic Sea on 23/09/2020 between M/V ICE ROSE, a refrigerated cargo ship, and a navy ship (DK/DMAIB).

emsa.europa.eu

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