



**The world merchant fleet in 2016**

**Statistics from Equasis**

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# Table of content

1.	Themes and Tables .....	3
2.	The Merchant Fleet Population .....	5
2.1.	Whole Fleet.....	6
2.2.	Ships by age .....	7
2.3.	Ships by flag .....	12
2.4.	Ship sightings by geographical area .....	16
3.	Classification Societies .....	18
3.1.	Class status .....	20
3.2.	Class status and age .....	24
3.3.	Class status and flag .....	40
3.4.	Safety performance.....	44
4.	P&I.....	46
4.1.	P&I status .....	48
4.2.	IGP&I and age.....	52
4.3.	Non IGP&I and age .....	56
4.4.	P&I and flag .....	60
4.5.	Safety performance.....	64
5.	Port State Control .....	66
5.1.	Port State Control Overview .....	68
5.2.	Ships Inspected Between 2014 and 2016 – By Age .....	73
5.3.	Ships Inspected Between 2014 and 2016 – By P&I.....	77
5.4.	Ships Inspected Between 2014 and 2016 – By Flag.....	81
5.5.	PSC Records of Recognised Organisations .....	85
5.6.	Statutory Certificates .....	89
6.	Trade Associations and Industry Vetting Programmes .....	90
6.1.	Scheme status.....	92
6.2.	Safety performance.....	93
6.3.	Company performance .....	95
	Annexes .....	97
Annex I.	Ship type aggregations .....	97
Annex II.	Targeted Flag States 2016 .....	98
Annex III.	Default PSC Ship types .....	99
Annex IV.	List of Statutory Certificates, by conventions .....	100
Annex V.	Ships in the scope of Trade Association and vetting programs.....	101

## Chapter 1

# 1. Themes and Tables

## INTRODUCTION

This report provides a picture of the world's merchant fleet in 2016, derived from data contained in the Equasis database. It examines the structure and characteristics of the fleet and its performance. The statistics are grouped into themes which could be of interest to the industry and regulators.

The themes are as follows:

1. The Merchant Fleet Population
2. Classification Societies
3. P&I
4. Port State Control
5. Vetting Programmes and Trade Associations

## OVERVIEW

Equasis is populated with data from most of the world's merchant ships. Basic ship particulars are derived from the commercial database of IHS Markit Maritime & Trade.

From a commercial and regulatory point of view, size and type of ship are two key criteria and therefore throughout this report the statistical analysis is based on these two elements. For the "port State control" theme, ships will be divided into ship type categories derived from PSC databases.

## SIZE

Ships are grouped by size into four categories:

1. Small ships 100 GT to 499 GT
2. Medium ships 500 GT to 24.999 GT
3. Large ships 25.000 GT to 59.999 GT
4. Very Large ships  $\geq$  60.000 GT

The small ships size category reflects the main tonnage threshold for merchant ships to comply with the SOLAS Convention. This category also includes many ships which do not trade internationally and therefore are

not covered by the International Conventions or the port State control regimes, but for which some flag States require the same standards.

A significant proportion of these ships are also too small to be covered by classification societies and by the vetting and trading organisations. They have, therefore, been excluded from most of the analyses in order to avoid distortion of the totals for ships which are generally covered by the International Legislation, port State control, classification societies and other trade organisations. To provide data for the whole merchant fleet, small ships are included in Chapters 2.1 and 2.2, and in the multiple inspection figures in Chapters 5.1 and 5.6. Small ships are also taken into consideration when evaluating the fleet size of a company and the detention rate in Chapter 6.3.

Regulatory and commercial tonnage thresholds are not common to all ship types. As a compromise, categories medium, large and very-large (i.e.: 2, 3 and 4) have been chosen so as to divide the fleet into three approximately equal parts in terms of tonnage. These three together represent the larger worldwide trading merchant ships.

## SHIP TYPES

Equasis uses over 100 descriptions of ship type provided by IHS Markit Maritime & Trade. For this report these types have been aggregated into 12 main types as follows:

- General Cargo Ships
- Specialized Cargo Ships
- Container Ships
- Ro-Ro Cargo Ships
- Bulk Carriers
- Oil and Chemical Tankers
- Gas Tankers
- Other Tankers
- Passenger Ships
- Offshore Vessels
- Service Ships
- Tugs

Annex I outlines how this aggregation has been accomplished. This Annex is regularly reviewed to include new ship types that were excluded in the previous versions of the Equasis Annual Statistics but which should now be included to better reflect the situation of the world merchant fleet.

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### PSC SHIP TYPES

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PSC organisations use specific ship type categories that are different from the ones used by IHS Markit Maritime & Trade. From 2011 onwards, these categories have been used in Chapter 5 (Port State Control) for ship types.

For ships that have never been inspected or when the ship type is not reported in the PSC data provided to Equasis, it is not possible to attribute a "PSC ship type" easily. In this situation, a "default PSC ship type" is used in substitution of a genuine PSC ship type.

The "default PSC ship type" is based on the ship type as provided by IHS Markit Maritime & Trade. Annex III provides the aggregation used for this purpose. This Annex was established mainly through statistical analysis and direct comparisons between IHS Markit Maritime & Trade ship types and PSC ship types. It cannot be directly compared to Annex I as the intention is not to create categories of ships but instead to attribute a PSC ship type to ships that were not inspected.

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### FLAG STATES

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Flag States (under which ships are registered) are grouped in two categories, "targeted" and "non-targeted". Those in the "targeted" group are the flag States which appear on at least one of the targeted lists of the Paris Memorandum of Understanding (Paris MoU) [Black List], the Tokyo MoU [Black List] and the US Coast Guard (USCG) [safety targeting]. Indian Ocean MoU (IO MoU), Viña del Mar MoU (VDM MoU), Mediterranean MoU (Med MoU) and Caribbean MoU (CMoU) also provide their inspection results to Equasis, but they do not use a target list.

The lists are published annually and reflect the safety performance of ships registered to each flag State as measured by the number of port State inspections and

detentions recorded over a three-year period.

It is possible for a flag State to be "targeted" in one regime but not in another. This can be because its safety performance varies from one regime to another, or, because few, or none, of its ships trade to ports covered by a particular PSC regime.

Further details are included in the list of the respective regimes' port State control Annual Reports. The list of targeted flag States, based on the 2016 annual reports of the Paris MoU, the Tokyo MoU and the US Coast Guard, can be found in Annex II.

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### SOURCE OF INFORMATION

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Equasis is fed by 50 data providers which can be divided into six categories: core ship and company data, PSC regimes, classification societies, P&I clubs, associations or vetting programs and other international organisations. Almost all of these sources are used in this document to a greater or lesser extent.

As to PSC information, it should be noted that not all inspections within the Indian Ocean MoU are reported in Equasis. Only inspections from Australia, France (La Réunion Island), India, Iran, Mauritius, Oman, South Africa, Sri Lanka were considered in these statistics. In 2016, these eight countries carried out approximately 90% of all inspections within the Indian Ocean MoU.

## Chapter 2

# 2. The Merchant Fleet Population

### INTRODUCTION

The tables in this chapter provide a picture of the fleet of ships in Equasis in terms of type, size, age and the flag under which the ship is registered.

### RESULTS

Graph 1 shows that by number, the Equasis fleet is dominated by small and medium sized ships up to 24.999 GT (80%). Small ships alone represent 37% by number, although around only 1% by tonnage.

Tugs (20.3%), general cargo ships (18.3%), oil and chemical tankers (14.7%) and bulk carriers (12.9%) are the four most common ship types by number, representing about two thirds of the Equasis fleet. Most of these are small and medium sized ships.

Within the large and very large categories, bulk carriers (43.1%), oil and chemical tankers (25.2%) and container ships (16.2%) represent approximately 85% of the fleet in number in these ship size categories.

In terms of tonnage, the large and very large size categories represent 81% of the Equasis fleet (Graph 2), with oil and chemical tankers, bulk carriers, and container ships jointly dominating both categories at 84.2% (large) and 83% (very large).

Table 3 shows an almost even distribution of the Equasis fleet, by number, of ships under and over 15 years of age. However, there is a large dominance of older ships in the small and medium ship size categories. The trend is reversed in the large and very large ship size categories, where 78.9% (large) and 83.7% (very large) are less than 15 years old.

Graph 4 shows that the most modern fleets are made up of the biggest ships in tonnage. Looking back at the statistics of the previous years, it is clear that the

younger ships are bigger than their predecessors. This trend has been observed in previous years with the biggest ships being recent additions to the fleet.

Graph 13 shows that about a third (32%) of the total number of ships in Equasis are associated with a targeted flag State. Graphs 17 and 19 show that this proportion is lower for large ships (27%) and very large ships (26%).

Tables 13 and 14 both show that for the targeted flag States, general cargo ships are the most common ship category in number (30.7%), but bulk carriers are the most common ship type category by tonnage (42.3%). This is expected considering that these two ship types are the most common with respect to the total number of ships and tonnage (18.3% and 34.6%, respectively).

In comparison, oil and chemical tankers (21.4%), bulk carriers (19.3%), and general cargo ships (17.1%), have a larger proportion of the total number of ships originating from non-targeted flag States.

Since the last edition of the annual statistics a new section has been introduced – “2.4 – Ship Sightings by Geographical Area”. Ship sightings are provided to Equasis by AXSMarine, VesselTracker and MarineTraffic. At least one ship sighting was recorded for 65% of the active fleet of Equasis.

The figures presented in this section are strongly dependent on the coastal and satellite coverage of AIS data guaranteed by the abovementioned data-providers.

Table 21 suggest that the majority of maritime traffic occurs in the Mediterranean Sea (13.1%) and Asia (37.5%), with both geographical areas accounting for 50% of the total sightings reported to Equasis. In respect to ship size, small sized ships were predominately sighted in the Mediterranean Sea (24.7%) while very large ships in Asia (40.2%).

## 2.1. WHOLE FLEET

Table 1 - World fleet : total number of ships, by type and size

Ship Type	Small <sup>(1)</sup>		Medium <sup>(2)</sup>		Large <sup>(3)</sup>		Very Large <sup>(4)</sup>		Total	
	Count	%	Count	%	Count	%	Count	%	Count	%
General Cargo Ships	4,374	13.1%	11,830	30.3%	229	2.0%			16,433	18.3%
Specialized Cargo Ships	8	0.0%	225	0.6%	64	0.6%	4	0.1%	301	0.3%
Container Ships	18	0.1%	2,253	5.8%	1,507	13.0%	1,329	22.9%	5,107	5.7%
Ro-Ro Cargo Ships	31	0.1%	641	1.6%	592	5.1%	223	3.8%	1,487	1.7%
Bulk Carriers	309	0.9%	3,792	9.7%	5,830	50.2%	1,683	28.9%	11,614	12.9%
Oil and Chemical Tankers	1,902	5.7%	6,912	17.7%	2,629	22.6%	1,779	30.6%	13,222	14.7%
Gas Tankers	38	0.1%	1,126	2.9%	337	2.9%	420	7.2%	1,921	2.1%
Other Tankers	364	1.1%	605	1.6%	9	0.1%			978	1.1%
Passenger Ships	3,894	11.7%	2,674	6.9%	272	2.3%	171	2.9%	7,011	7.8%
Offshore Vessels	2,685	8.0%	5,402	13.8%	120	1.0%	201	3.5%	8,408	9.4%
Service Ships	2,537	7.6%	2,554	6.5%	26	0.2%	6	0.1%	5,123	5.7%
Tugs	17,196	51.6%	1,003	2.6%					18,199	20.3%
<b>Total</b>	<b>33,356</b>	<b>100%</b>	<b>39,017</b>	<b>100%</b>	<b>11,615</b>	<b>100%</b>	<b>5,816</b>	<b>100%</b>	<b>89,804</b>	<b>100%</b>

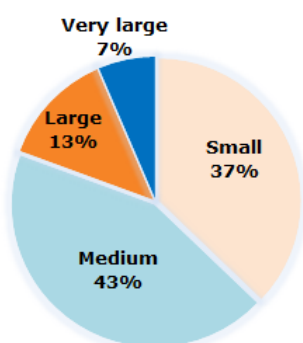
Source: Equasis <sup>(1)</sup> GT<500 - <sup>(2)</sup> 500≤GT<25.000 - <sup>(3)</sup> 25.000≤GT<60.000 - <sup>(4)</sup> GT≥60.000

Table 2 - World fleet : gross tonnage (in 1000 gt), by type and size

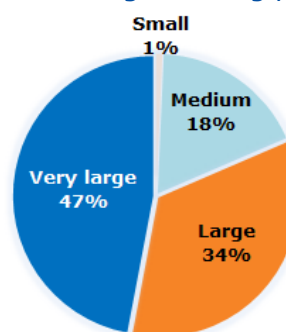
Ship Type	Small <sup>(1)</sup>		Medium <sup>(2)</sup>		Large <sup>(3)</sup>		Very Large <sup>(4)</sup>		Total	
	Count	%	Count	%	Count	%	Count	%	Count	%
General Cargo Ships	1,474	16.7%	49,944	22.1%	7,491	1.7%			58,909	4.6%
Specialized Cargo Ships	3	0.0%	1,828	0.8%	2,401	0.5%	304	0.1%	4,536	0.4%
Container Ships	7	0.1%	26,379	11.7%	57,684	13.2%	137,060	22.9%	221,130	17.4%
Ro-Ro Cargo Ships	11	0.1%	6,291	2.8%	28,044	6.4%	14,930	2.5%	49,276	3.9%
Bulk Carriers	121	1.4%	56,157	24.8%	216,108	49.3%	167,229	28.0%	439,615	34.6%
Oil and Chemical Tankers	609	6.9%	41,907	18.5%	95,286	21.7%	191,584	32.1%	329,386	25.9%
Gas Tankers	14	0.2%	7,066	3.1%	14,645	3.3%	45,951	7.7%	67,676	5.3%
Other Tankers	109	1.2%	1,674	0.7%	272	0.1%			2,055	0.2%
Passenger Ships	993	11.2%	11,128	4.9%	9,735	2.2%	17,412	2.9%	39,268	3.1%
Offshore Vessels	757	8.6%	14,444	6.4%	5,536	1.3%	21,917	3.7%	42,654	3.4%
Service Ships	626	7.1%	8,235	3.6%	926	0.2%	901	0.2%	10,688	0.8%
Tugs	4,104	46.5%	987	0.4%					5,091	0.4%
<b>Total</b>	<b>8,828</b>	<b>100%</b>	<b>226,040</b>	<b>100%</b>	<b>438,128</b>	<b>100%</b>	<b>597,288</b>	<b>100%</b>	<b>1,270,284</b>	<b>100%</b>

Source: Equasis <sup>(1)</sup> GT<500 - <sup>(2)</sup> 500≤GT<25.000GT - <sup>(3)</sup> 25.000≤GT<60.000 - <sup>(4)</sup> GT≥60.000

Graph 1 - World fleet : total number of ships, by size



Graph 2 - World fleet : gross tonnage, by size



## 2.2. SHIPS BY AGE

## WORLD FLEET

Table 3 - Total number of ships, by age and size

Ship age category	Small <sup>(1)</sup>		Medium <sup>(2)</sup>		Large <sup>(3)</sup>		Very Large <sup>(4)</sup>		Total	
0-4 years old	4,469	13.2%	4,055	10.6%	2,784	24.1%	1,554	26.7%	12,862	14.4%
5-14 years old	8,500	25.1%	13,729	35.8%	6,326	54.8%	3,318	57.0%	31,873	35.6%
15-24 years old	5,609	16.6%	6,997	18.2%	1,971	17.1%	831	14.3%	15,408	17.2%
+25 years old	15,278	45.1%	13,600	35.4%	458	4.0%	113	1.9%	29,449	32.9%
<b>Total</b>	<b>33,856</b>	<b>100%</b>	<b>38,381</b>	<b>100%</b>	<b>11,539</b>	<b>100%</b>	<b>5,816</b>	<b>100%</b>	<b>89,592</b>	<b>100%</b>

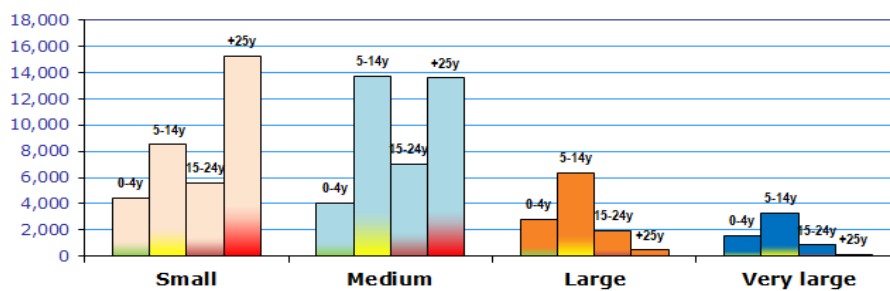
Source: Equasis <sup>(1)</sup> GT<500 - <sup>(2)</sup> 500≤GT<25.000 - <sup>(3)</sup> 25.000≤GT<60.000 - <sup>(4)</sup> GT≥60.000

Table 4 - Gross tonnage (in 1000 gt) of ships, by age and size

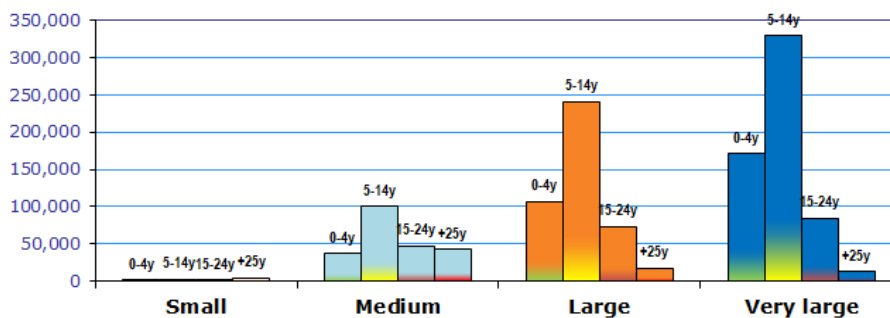
Ship age category	Small <sup>(1)</sup>		Medium <sup>(2)</sup>		Large <sup>(3)</sup>		Very Large <sup>(4)</sup>		Total	
0-4 years old	1,109	12.6%	36,885	16.3%	107,133	24.5%	170,903	28.6%	316,030	24.9%
5-14 years old	2,371	26.8%	100,239	44.3%	241,428	55.1%	329,608	55.2%	673,646	53.0%
15-24 years old	1,496	16.9%	46,535	20.6%	72,724	16.6%	84,261	14.1%	205,016	16.1%
+25 years old	3,856	43.7%	42,381	18.7%	16,841	3.8%	12,517	2.1%	75,595	6.0%
<b>Total</b>	<b>8,832</b>	<b>100%</b>	<b>226,040</b>	<b>100%</b>	<b>438,126</b>	<b>100%</b>	<b>597,289</b>	<b>100%</b>	<b>1,270,287</b>	<b>100%</b>

Source: Equasis <sup>(1)</sup> GT<500 - <sup>(2)</sup> 500≤GT<25.000 - <sup>(3)</sup> 25.000≤GT<60.000 - <sup>(4)</sup> GT≥60.000

Graph 3 - World fleet : total number of ships, by age and size



Graph 4 - World fleet : gross tonnage (in 1000 gt) by age and size



## 0-4 years old SHIPS

**Table 5 - Total number of 0-4 years old ships, by type and size**

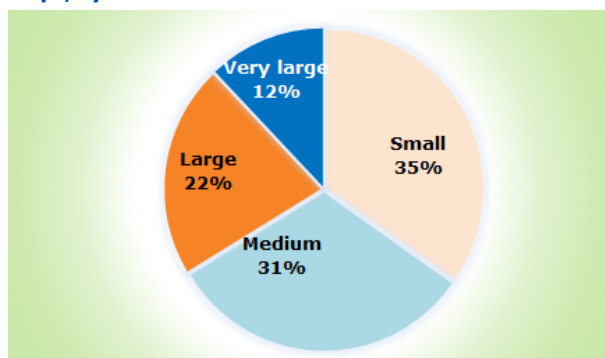
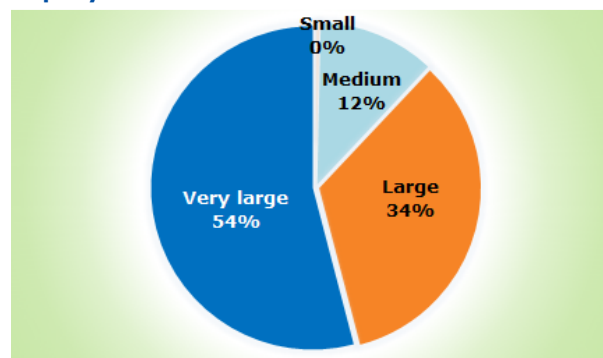
Ship Type	Small <sup>(1)</sup>		Medium <sup>(2)</sup>		Large <sup>(3)</sup>		Very Large <sup>(4)</sup>		Total	
	Count	%	Count	%	Count	%	Count	%	Count	%
General Cargo Ships	712	15.9%	76	1.9%					788	6.1%
Specialized Cargo Ships			28	0.7%	10	0.4%	4	0.3%	42	0.3%
Container Ships	1	0.0%	230	5.7%	202	7.3%	429	27.6%	862	6.7%
Ro-Ro Cargo Ships	2	0.0%	35	0.9%	54	1.9%	70	4.5%	161	1.3%
Bulk Carriers	11	0.2%	736	18.2%	1,804	64.8%	442	28.4%	2,993	23.3%
Oil and Chemical Tankers	156	3.5%	752	18.5%	504	18.1%	417	26.8%	1,829	14.2%
Gas Tankers			189	4.7%	160	5.7%	116	7.5%	465	3.6%
Other Tankers	53	1.2%	130	3.2%	3	0.1%			186	1.4%
Passenger Ships	255	5.7%	251	6.2%	15	0.5%	25	1.6%	546	4.2%
Offshore Vessels	451	10.1%	1,156	28.5%	28	1.0%	50	3.2%	1,685	13.1%
Service Ships	280	6.3%	341	8.4%	4	0.1%	1	0.1%	626	4.9%
Tugs	2,548	57.0%	131	3.2%					2,679	20.8%
<b>Total</b>	<b>4,469</b>	<b>100%</b>	<b>4,055</b>	<b>100%</b>	<b>2,784</b>	<b>100%</b>	<b>1,554</b>	<b>100%</b>	<b>12,862</b>	<b>100%</b>

Source: Equasis <sup>(1)</sup> GT<500 - <sup>(2)</sup> 500≤GT<25.000 - <sup>(3)</sup> 25.000≤GT<60.000 - <sup>(4)</sup> GT≥60.000

**Table 6 - Gross tonnage (in 1000 gt) of 0-4 years old ships, by type and size**

Ship Type	Small <sup>(1)</sup>		Medium <sup>(2)</sup>		Large <sup>(3)</sup>		Very Large <sup>(4)</sup>		Total	
	Count	%	Count	%	Count	%	Count	%	Count	%
General Cargo Ships	87	7.8%	4,695	12.7%	2,506	2.3%			7,288	2.3%
Specialized Cargo Ships			338	0.9%	418	0.4%	304	0.2%	1,060	0.3%
Container Ships			2,885	7.8%	7,872	7.3%	53,983	31.6%	64,740	20.5%
Ro-Ro Cargo Ships	1	0.1%	418	1.1%	2,762	2.6%	5,051	3.0%	8,232	2.6%
Bulk Carriers	5	0.5%	13,856	37.6%	68,468	63.9%	46,189	27.0%	128,518	40.7%
Oil and Chemical Tankers	57	5.1%	5,296	14.4%	16,120	15.0%	43,806	25.6%	65,279	20.7%
Gas Tankers			1,756	4.8%	6,872	6.4%	12,840	7.5%	21,468	6.8%
Other Tankers	17	1.5%	594	1.6%	82	0.1%			693	0.2%
Passenger Ships	82	7.4%	1,076	2.9%	624	0.6%	3,477	2.0%	5,259	1.7%
Offshore Vessels	132	11.9%	4,504	12.2%	1,283	1.2%	4,850	2.8%	10,769	3.4%
Service Ships	73	6.6%	1,323	3.6%	126	0.1%	403	0.2%	1,925	0.6%
Tugs	655	59.1%	144	0.4%					799	0.3%
<b>Total</b>	<b>1,109</b>	<b>100%</b>	<b>36,885</b>	<b>100%</b>	<b>107,133</b>	<b>100%</b>	<b>170,903</b>	<b>100%</b>	<b>316,030</b>	<b>100%</b>

Source: Equasis <sup>(1)</sup> GT<500 - <sup>(2)</sup> 500≤GT<25.000 - <sup>(3)</sup> 25.000≤GT<60.000 - <sup>(4)</sup> GT≥60.000

**Graph 5 - World fleet : total number of 0-4 years old ships, by size****Graph 6 - World fleet : gross tonnage of 0-4 years old ships by size**



## 5-14 YEARS OLD SHIPS

Table 7 - Total number of 5-14 years old ships, by type and size

Ship Type	Small <sup>(1)</sup>		Medium <sup>(2)</sup>		Large <sup>(3)</sup>		Very Large <sup>(4)</sup>		Total	
General Cargo Ships	653	7.7%	3,602	26.2%	64	1.0%			4,319	13.6%
Specialized Cargo Ships			55	0.4%	8	0.1%			63	0.2%
Container Ships	16	0.2%	1,039	7.6%	961	15.2%	733	22.1%	2,749	8.6%
Ro-Ro Cargo Ships	9	0.1%	113	0.8%	356	5.6%	134	4.0%	612	1.9%
Bulk Carriers	11	0.1%	1,793	13.1%	3,042	48.1%	1,051	31.7%	5,897	18.5%
Oil and Chemical Tankers	244	2.9%	2,851	20.8%	1,655	26.2%	1,056	31.8%	5,806	18.2%
Gas Tankers	4	0.0%	372	2.7%	110	1.7%	228	6.9%	714	2.2%
Other Tankers	37	0.4%	171	1.2%	4	0.1%			212	0.7%
Passenger Ships	575	6.8%	526	3.8%	79	1.2%	79	2.4%	1,259	4.0%
Offshore Vessels	715	8.4%	2,371	17.3%	36	0.6%	37	1.1%	3,159	9.9%
Service Ships	484	5.7%	522	3.8%	11	0.2%			1,017	3.2%
Tugs	5,752	67.7%	314	2.3%					6,066	19.0%
<b>Total</b>	<b>8,500</b>	<b>100%</b>	<b>13,729</b>	<b>100%</b>	<b>6,326</b>	<b>100%</b>	<b>3,318</b>	<b>100%</b>	<b>31,873</b>	<b>100%</b>

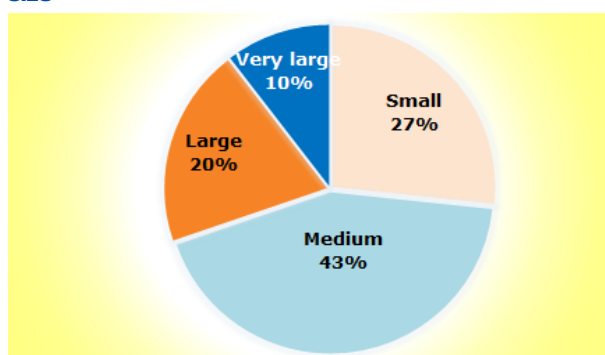
Source: Equasis <sup>(1)</sup> GT<500 - <sup>(2)</sup> 500≤GT<25.000 - <sup>(3)</sup> 25.000≤GT<60.000 - <sup>(4)</sup> GT≥60.000

Table 8 - Gross tonnage (in 1000 gt) of 5-14 years old ships, by type and size

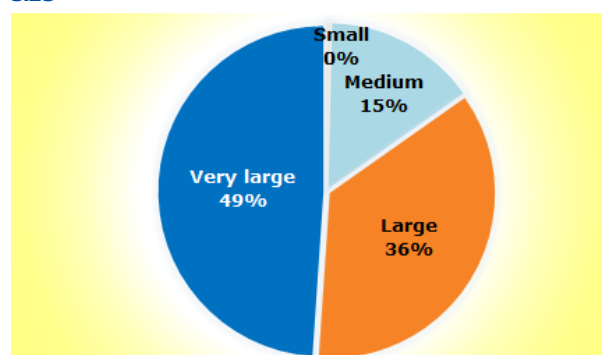
Ship Type	Small <sup>(1)</sup>		Medium <sup>(2)</sup>		Large <sup>(3)</sup>		Very Large <sup>(4)</sup>		Total	
General Cargo Ships	289	12.2%	20,477	20.4%	2,257	0.9%			23,023	3.4%
Specialized Cargo Ships			648	0.6%	290	0.1%			938	0.1%
Container Ships	6	0.3%	12,443	12.4%	37,398	15.5%	70,948	21.5%	120,795	17.9%
Ro-Ro Cargo Ships	4	0.2%	1,533	1.5%	16,923	7.0%	8,589	2.6%	27,049	4.0%
Bulk Carriers	4	0.2%	28,320	28.3%	114,020	47.2%	101,332	30.7%	243,676	36.2%
Oil and Chemical Tankers	90	3.8%	22,302	22.2%	60,642	25.1%	112,128	34.0%	195,162	29.0%
Gas Tankers	2	0.1%	2,776	2.8%	4,826	2.0%	25,400	7.7%	33,004	4.9%
Other Tankers	13	0.5%	619	0.6%	128	0.1%			760	0.1%
Passenger Ships	158	6.7%	2,122	2.1%	2,818	1.2%	8,339	2.5%	13,437	2.0%
Offshore Vessels	228	9.6%	6,463	6.4%	1,707	0.7%	2,872	0.9%	11,270	1.7%
Service Ships	116	4.9%	2,180	2.2%	419	0.2%			2,715	0.4%
Tugs	1,461	61.6%	356	0.4%					1,817	0.3%
<b>Total</b>	<b>2,371</b>	<b>100%</b>	<b>100,239</b>	<b>100%</b>	<b>241,428</b>	<b>100%</b>	<b>329,608</b>	<b>100%</b>	<b>673,646</b>	<b>100%</b>

Source: Equasis <sup>(1)</sup> GT<500 - <sup>(2)</sup> 500≤GT<25.000 - <sup>(3)</sup> 25.000≤GT<60.000 - <sup>(4)</sup> GT≥60.000

Graph 7 - Total number of 5-14 years old ships by size



Graph 8 - Gross tonnage of 5-14 years old ships by size



## 15-24 YEARS OLD SHIPS

Table 9 - Total number of 15-24 years old ships, by type and size

Ship Type	Small <sup>(1)</sup>		Medium <sup>(2)</sup>		Large <sup>(3)</sup>		Very Large <sup>(4)</sup>		Total	
	Count	%	Count	%	Count	%	Count	%	Count	%
General Cargo Ships	813	14.5%	2,199	31.4%	63	3.2%			3,075	20.0%
Specialized Cargo Ships			22	0.3%	9	0.5%			31	0.2%
Container Ships			815	11.6%	299	15.2%	167	20.1%	1,281	8.3%
Ro-Ro Cargo Ships	5	0.1%	186	2.7%	143	7.3%	19	2.3%	353	2.3%
Bulk Carriers	80	1.4%	610	8.7%	874	44.3%	170	20.5%	1,734	11.3%
Oil and Chemical Tankers	428	7.6%	1,265	18.1%	416	21.1%	300	36.1%	2,409	15.6%
Gas Tankers	5	0.1%	276	3.9%	37	1.9%	60	7.2%	378	2.5%
Other Tankers	45	0.8%	61	0.9%	2	0.1%			108	0.7%
Passenger Ships	880	15.7%	613	8.8%	104	5.3%	59	7.1%	1,656	10.7%
Offshore Vessels	328	5.8%	466	6.7%	20	1.0%	54	6.5%	868	5.6%
Service Ships	382	6.8%	385	5.5%	4	0.2%	2	0.2%	773	5.0%
Tugs	2,643	47.1%	99	1.4%					2,742	17.8%
<b>Total</b>	<b>5,609</b>	<b>100%</b>	<b>6,997</b>	<b>100%</b>	<b>1,971</b>	<b>100%</b>	<b>831</b>	<b>100%</b>	<b>15,408</b>	<b>100%</b>

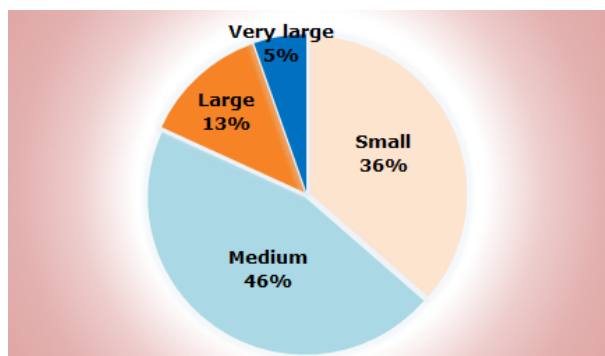
Source: Equasis <sup>(1)</sup> GT<500 - <sup>(2)</sup> 500≤GT<25.000 - <sup>(3)</sup> 25.000≤GT<60.000 - <sup>(4)</sup> GT≥60.000

Table 10 - Gross tonnage (in 1000 gt) of 15-24 years old ships, by type and size

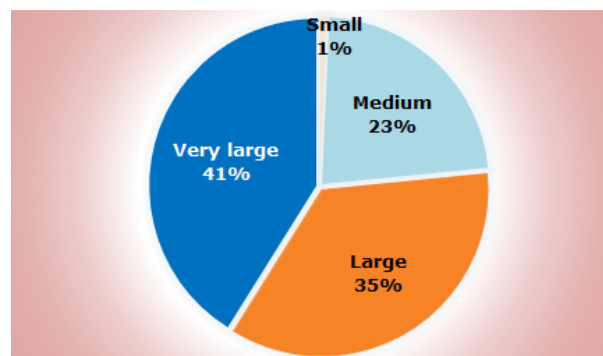
Ship Type	Small <sup>(1)</sup>		Medium <sup>(2)</sup>		Large <sup>(3)</sup>		Very Large <sup>(4)</sup>		Total	
	Count	%	Count	%	Count	%	Count	%	Count	%
General Cargo Ships	287	19.2%	10,451	22.5%	1,985	2.7%			12,723	6.2%
Specialized Cargo Ships			184	0.4%	363	0.5%			547	0.3%
Container Ships			9,413	20.2%	10,748	14.8%	12,129	14.4%	32,290	15.7%
Ro-Ro Cargo Ships	2	0.1%	2,106	4.5%	6,756	9.3%	1,290	1.5%	10,154	5.0%
Bulk Carriers	34	2.3%	8,231	17.7%	29,656	40.8%	17,030	20.2%	54,951	26.8%
Oil and Chemical Tankers	132	8.8%	8,595	18.5%	16,720	23.0%	35,202	41.8%	60,649	29.6%
Gas Tankers	2	0.1%	1,586	3.4%	1,635	2.2%	6,184	7.3%	9,407	4.6%
Other Tankers	13	0.9%	183	0.4%	62	0.1%			258	0.1%
Passenger Ships	224	15.0%	2,957	6.4%	3,673	5.1%	5,028	6.0%	11,882	5.8%
Offshore Vessels	103	6.9%	1,203	2.6%	989	1.4%	7,096	8.4%	9,391	4.6%
Service Ships	85	5.7%	1,542	3.3%	137	0.2%	302	0.4%	2,066	1.0%
Tugs	614	41.0%	84	0.2%					698	0.3%
<b>Total</b>	<b>1,496</b>	<b>100%</b>	<b>46,535</b>	<b>100%</b>	<b>72,724</b>	<b>100%</b>	<b>84,261</b>	<b>100%</b>	<b>205,016</b>	<b>100%</b>

Source: Equasis <sup>(1)</sup> GT<500 - <sup>(2)</sup> 500≤GT<25.000 - <sup>(3)</sup> 25.000≤GT<60.000 - <sup>(4)</sup> GT≥60.000

Graph 9 - Total number of 15-24 years old ships by size



Graph 10 - Gross tonnage of 15-24 years old ships by size



**+25 YEARS OLD SHIPS****Table 11 - Total number of +25 years old ships, by type and size**

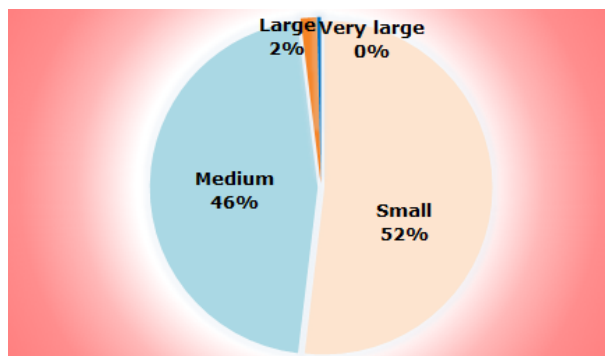
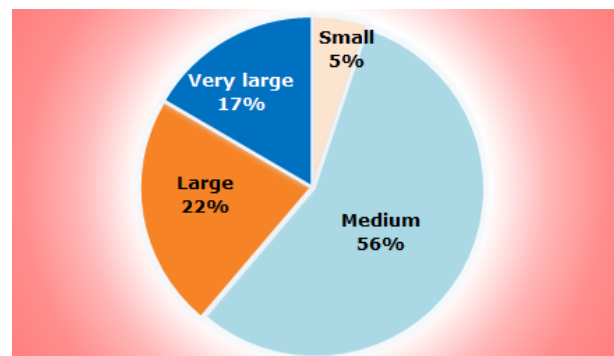
Ship Type	Small <sup>(1)</sup>		Medium <sup>(2)</sup>		Large <sup>(3)</sup>		Very Large <sup>(4)</sup>		Total	
General Cargo Ships	2,696	17.6%	5,317	39.1%	26	5.7%			8,039	27.3%
Specialized Cargo Ships	8	0.1%	120	0.9%	37	8.1%			165	0.6%
Container Ships	1	0.0%	169	1.2%	45	9.8%			215	0.7%
Ro-Ro Cargo Ships	15	0.1%	307	2.3%	39	8.5%			361	1.2%
Bulk Carriers	207	1.4%	653	4.8%	110	24.0%	20	17.7%	990	3.4%
Oil and Chemical Tankers	1,074	7.0%	2,044	15.0%	54	11.8%	6	5.3%	3,178	10.8%
Gas Tankers	29	0.2%	289	2.1%	30	6.6%	16	14.2%	364	1.2%
Other Tankers	229	1.5%	243	1.8%					472	1.6%
Passenger Ships	2,184	14.3%	1,284	9.4%	74	16.2%	8	7.1%	3,550	12.1%
Offshore Vessels	1,191	7.8%	1,409	10.4%	36	7.9%	60	53.1%	2,696	9.2%
Service Ships	1,391	9.1%	1,306	9.6%	7	1.5%	3	2.7%	2,707	9.2%
Tugs	6,253	40.9%	459	3.4%					6,712	22.8%
<b>Total</b>	<b>15,278</b>	<b>100%</b>	<b>13,600</b>	<b>100%</b>	<b>458</b>	<b>100%</b>	<b>113</b>	<b>100%</b>	<b>29,449</b>	<b>100%</b>

Source: Equasis <sup>(1)</sup> GT<500 - <sup>(2)</sup> 500≤GT<25.000 - <sup>(3)</sup> 25.000≤GT<60.000 - <sup>(4)</sup> GT≥60.000

**Table 12 - Gross tonnage (in 1000 gt) of +25 years old ships, by type and size**

Ship Type	Small <sup>(1)</sup>		Medium <sup>(2)</sup>		Large <sup>(3)</sup>		Very Large <sup>(4)</sup>		Total	
General Cargo Ships	811	21.0%	14,320	33.8%	743	4.4%			15,874	21.0%
Specialized Cargo Ships	3	0.1%	659	1.6%	1,330	7.9%			1,992	2.6%
Container Ships			1,638	3.9%	1,665	9.9%			3,303	4.4%
Ro-Ro Cargo Ships	5	0.1%	2,233	5.3%	1,603	9.5%			3,841	5.1%
Bulk Carriers	78	2.0%	5,750	13.6%	3,964	23.5%	2,679	21.4%	12,471	16.5%
Oil and Chemical Tankers	331	8.6%	5,714	13.5%	1,803	10.7%	449	3.6%	8,297	11.0%
Gas Tankers	11	0.3%	947	2.2%	1,312	7.8%	1,527	12.2%	3,797	5.0%
Other Tankers	66	1.7%	279	0.7%					345	0.5%
Passenger Ships	529	13.7%	4,974	11.7%	2,619	15.6%	567	4.5%	8,689	11.5%
Offshore Vessels	295	7.7%	2,274	5.4%	1,557	9.2%	7,100	56.7%	11,226	14.9%
Service Ships	352	9.1%	3,190	7.5%	245	1.5%	195	1.6%	3,982	5.3%
Tugs	1,375	35.7%	403	1.0%					1,778	2.4%
<b>Total</b>	<b>3,856</b>	<b>100%</b>	<b>42,381</b>	<b>100%</b>	<b>16,841</b>	<b>100%</b>	<b>12,517</b>	<b>100%</b>	<b>75,595</b>	<b>100%</b>

Source: Equasis <sup>(1)</sup> GT<500 - <sup>(2)</sup> 500≤GT<25.000 - <sup>(3)</sup> 25.000≤GT<60.000 - <sup>(4)</sup> GT≥60.000

**Graph 11 - Total number of +25 years old ships by size****Graph 12 - Gross tonnage of +25 years old ships by size**

## 2.3. SHIPS BY FLAG

## WHOLE FLEET GT≥500

Table 13 - World fleet GT≥500: total number of ships, by type and flag

Ship Type	Targeted Flag		Non Targeted Flag		Total	
General Cargo Ships	5,478	30.7%	6,581	17.1%	12,059	21.4%
Specialized Cargo Ships	109	0.6%	184	0.5%	293	0.5%
Container Ships	1,363	7.6%	3,726	9.7%	5,089	9.0%
Ro-Ro Cargo Ships	466	2.6%	990	2.6%	1,456	2.6%
Bulk Carriers	3,842	21.5%	7,463	19.3%	11,305	20.0%
Oil and Chemical Tankers	3,050	17.1%	8,270	21.4%	11,320	20.1%
Gas Tankers	501	2.8%	1,382	3.6%	1,883	3.3%
Other Tankers	179	1.0%	435	1.1%	614	1.1%
Passenger Ships	808	4.5%	2,309	6.0%	3,117	5.5%
Offshore Vessels	1,401	7.8%	4,322	11.2%	5,723	10.1%
Service Ships	523	2.9%	2,063	5.3%	2,586	4.6%
Tugs	130	0.7%	873	2.3%	1,003	1.8%
<b>Total</b>	<b>17,850</b>	<b>100%</b>	<b>38,598</b>	<b>100%</b>	<b>56,448</b>	<b>100%</b>

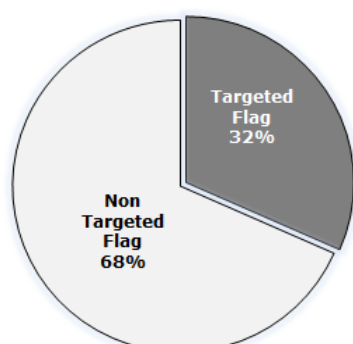
Source: Equasis

Table 14 - World fleet GT≥500: gross tonnage (in 1000 gt) of ships, by type and flag

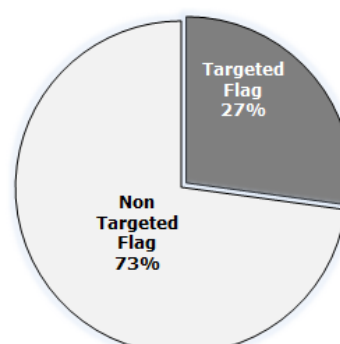
Ship Type	Targeted Flag		Non Targeted Flag		Total	
General Cargo Ships	22,439	6.5%	34,996	3.8%	57,435	4.6%
Specialized Cargo Ships	1,026	0.3%	3,506	0.4%	4,532	0.4%
Container Ships	44,511	13.0%	176,612	19.2%	221,123	17.5%
Ro-Ro Cargo Ships	15,519	4.5%	33,746	3.7%	49,265	3.9%
Bulk Carriers	144,958	42.3%	294,536	32.1%	439,494	34.8%
Oil and Chemical Tankers	82,262	24.0%	246,514	26.8%	328,776	26.1%
Gas Tankers	13,563	4.0%	54,099	5.9%	67,662	5.4%
Other Tankers	478	0.1%	1,468	0.2%	1,946	0.2%
Passenger Ships	6,698	2.0%	31,576	3.4%	38,274	3.0%
Offshore Vessels	9,140	2.7%	32,757	3.6%	41,897	3.3%
Service Ships	1,883	0.5%	8,179	0.9%	10,062	0.8%
Tugs	117	0.0%	870	0.1%	987	0.1%
<b>Total</b>	<b>342,594</b>	<b>100%</b>	<b>918,859</b>	<b>100%</b>	<b>1,261,453</b>	<b>100%</b>

Source: Equasis

Graph 13 - World fleet GT≥500: total number of ships, by flag



Graph 14 - World fleet GT≥500: gross tonnage of ships, by flag



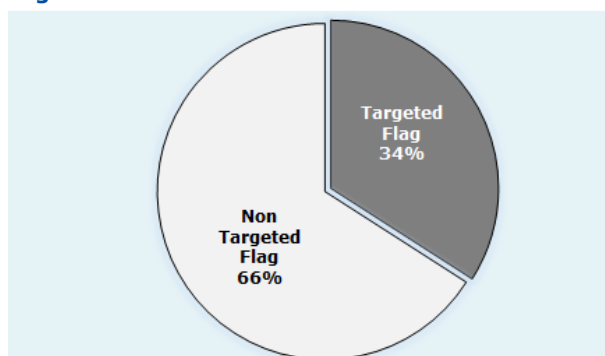
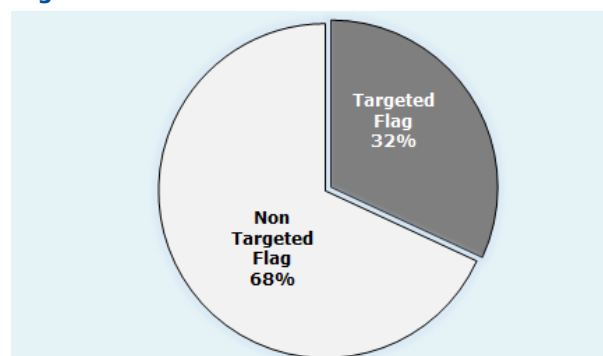
## MEDIUM SIZED SHIPS

**Table 15 - Total number of medium sized<sup>(1)</sup> ships, by type and flag**

Ship Type	Targeted Flag		Non Targeted Flag		Total	
General Cargo Ships	5,446	41.0%	6,384	24.8%	11,830	30.3%
Specialized Cargo Ships	94	0.7%	131	0.5%	225	0.6%
Container Ships	827	6.2%	1,426	5.5%	2,253	5.8%
Ro-Ro Cargo Ships	195	1.5%	446	1.7%	641	1.6%
Bulk Carriers	1,398	10.5%	2,394	9.3%	3,792	9.7%
Oil and Chemical Tankers	2,090	15.7%	4,822	18.7%	6,912	17.7%
Gas Tankers	341	2.6%	785	3.1%	1,126	2.9%
Other Tankers	177	1.3%	428	1.7%	605	1.6%
Passenger Ships	747	5.6%	1,927	7.5%	2,674	6.9%
Offshore Vessels	1,327	10.0%	4,075	15.8%	5,402	13.8%
Service Ships	515	3.9%	2,039	7.9%	2,554	6.5%
Tugs	130	1.0%	873	3.4%	1,003	2.6%
<b>Total</b>	<b>13,287</b>	<b>100%</b>	<b>25,730</b>	<b>100%</b>	<b>39,017</b>	<b>100%</b>

Source: Equasis <sup>(1)</sup> 500≤GT<25.000**Table 16 - Gross tonnage (in 1000 gt) of medium sized<sup>(1)</sup> ships, by type and flag**

Ship Type	Targeted Flag		Non Targeted Flag		Total	
General Cargo Ships	21,377	29.7%	28,567	18.6%	49,944	22.1%
Specialized Cargo Ships	494	0.7%	1,334	0.9%	1,828	0.8%
Container Ships	8,879	12.3%	17,500	11.4%	26,379	11.7%
Ro-Ro Cargo Ships	1,418	2.0%	4,873	3.2%	6,291	2.8%
Bulk Carriers	19,473	27.0%	36,684	23.8%	56,157	24.8%
Oil and Chemical Tankers	10,607	14.7%	31,300	20.3%	41,907	18.5%
Gas Tankers	2,016	2.8%	5,050	3.3%	7,066	3.1%
Other Tankers	422	0.6%	1,252	0.8%	1,674	0.7%
Passenger Ships	2,798	3.9%	8,330	5.4%	11,128	4.9%
Offshore Vessels	3,024	4.2%	11,420	7.4%	14,444	6.4%
Service Ships	1,471	2.0%	6,764	4.4%	8,235	3.6%
Tugs	117	0.2%	870	0.6%	987	0.4%
<b>Total</b>	<b>72,096</b>	<b>100%</b>	<b>153,944</b>	<b>100%</b>	<b>226,040</b>	<b>100%</b>

Source: Equasis <sup>(1)</sup> 500≤GT<25.000**Graph 15 - Total number of medium sized ships, by flag****Graph 16 - Gross tonnage of medium sized ships, by flag**

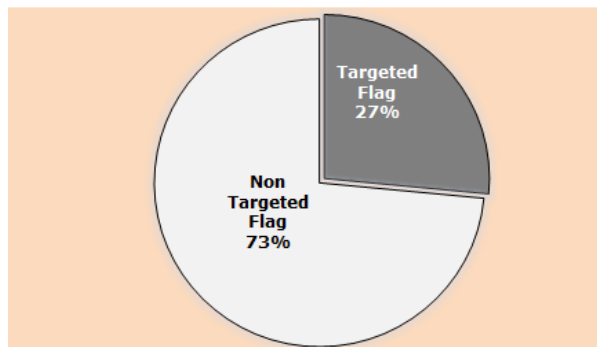
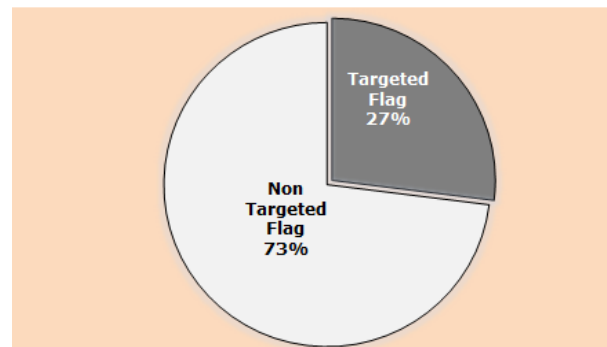
## LARGE SHIPS

**Table 17 - Total number of large<sup>(1)</sup> ships, by type and flag**

Ship Type	Targeted Flag		Non Targeted Flag		Total	
General Cargo Ships	32	1.0%	197	2.3%	229	2.0%
Specialized Cargo Ships	15	0.5%	49	0.6%	64	0.6%
Container Ships	293	9.5%	1,214	14.2%	1,507	13.0%
Ro-Ro Cargo Ships	209	6.8%	383	4.5%	592	5.1%
Bulk Carriers	1,852	60.2%	3,978	46.6%	5,830	50.2%
Oil and Chemical Tankers	515	16.7%	2,114	24.8%	2,629	22.6%
Gas Tankers	88	2.9%	249	2.9%	337	2.9%
Other Tankers	2	0.1%	7	0.1%	9	0.1%
Passenger Ships	32	1.0%	240	2.8%	272	2.3%
Offshore Vessels	33	1.1%	87	1.0%	120	1.0%
Service Ships	7	0.2%	19	0.2%	26	0.2%
Tugs						
<b>Total</b>	<b>3,078</b>	<b>100%</b>	<b>8,537</b>	<b>100%</b>	<b>11,615</b>	<b>100%</b>

Source: Equasis <sup>(1)</sup> 25.000≤GT<60.000**Table 18 - Gross tonnage (in 1000 gt) of large<sup>(1)</sup> ships, by type and flag**

Ship Type	Targeted Flag		Non Targeted Flag		Total	
General Cargo Ships	1,062	0.9%	6,429	2.0%	7,491	1.7%
Specialized Cargo Ships	532	0.5%	1,868	0.6%	2,400	0.5%
Container Ships	10,979	9.3%	46,705	14.6%	57,684	13.2%
Ro-Ro Cargo Ships	10,095	8.5%	17,949	5.6%	28,044	6.4%
Bulk Carriers	69,090	58.4%	147,018	46.0%	216,108	49.3%
Oil and Chemical Tankers	19,762	16.7%	75,523	23.6%	95,285	21.7%
Gas Tankers	3,943	3.3%	10,702	3.3%	14,645	3.3%
Other Tankers	56	0.0%	216	0.1%	272	0.1%
Passenger Ships	973	0.8%	8,762	2.7%	9,735	2.2%
Offshore Vessels	1,455	1.2%	4,081	1.3%	5,536	1.3%
Service Ships	257	0.2%	669	0.2%	926	0.2%
Tugs						
<b>Total</b>	<b>118,204</b>	<b>100%</b>	<b>319,922</b>	<b>100%</b>	<b>438,126</b>	<b>100%</b>

Source: Equasis <sup>(1)</sup> 25.000≤GT<60.000**Graph 17 - Total number of large ships, by flag****Graph 18 - Gross tonnage of large ships, by flag**

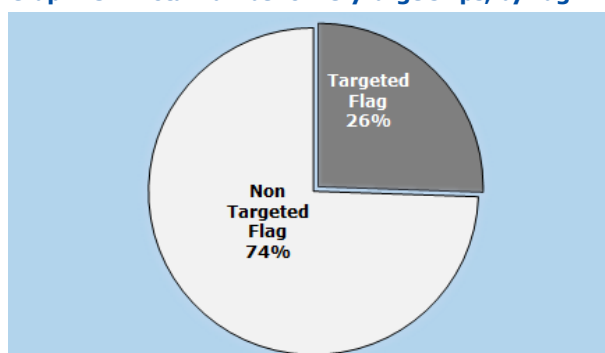
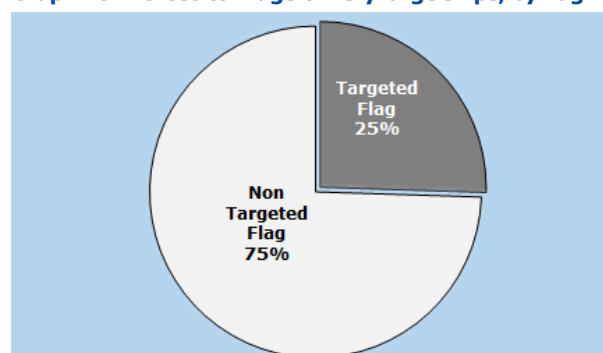
## VERY LARGE SHIPS

**Table 19 - Total number of very large<sup>(1)</sup> ships, by type and flag**

Ship Type	Targeted Flag		Non Targeted Flag		Total	
General Cargo Ships						
Specialized Cargo Ships			4	0.1%	4	0.1%
Container Ships	243	16.4%	1,086	25.1%	1,329	22.9%
Ro-Ro Cargo Ships	62	4.2%	161	3.7%	223	3.8%
Bulk Carriers	592	39.9%	1,091	25.2%	1,683	28.9%
Oil and Chemical Tankers	445	30.0%	1,334	30.8%	1,779	30.6%
Gas Tankers	72	4.8%	348	8.0%	420	7.2%
Other Tankers						
Passenger Ships	29	2.0%	142	3.3%	171	2.9%
Offshore Vessels	41	2.8%	160	3.7%	201	3.5%
Service Ships	1	0.1%	5	0.1%	6	0.1%
Tugs						
<b>Total</b>	<b>1,485</b>	<b>100%</b>	<b>4,331</b>	<b>100%</b>	<b>5,816</b>	<b>100%</b>

Source: Equasis <sup>(1)</sup> GT≥60.000**Table 20 - Gross tonnage (in 1000 gt) of very large<sup>(1)</sup> ships, by type and flag**

Ship Type	Targeted Flag		Non Targeted Flag		Total	
General Cargo Ships						
Specialized Cargo Ships			304	0.1%	304	0.1%
Container Ships	24,653	16.2%	112,407	25.3%	137,060	22.9%
Ro-Ro Cargo Ships	4,006	2.6%	10,924	2.5%	14,930	2.5%
Bulk Carriers	56,395	37.0%	110,834	24.9%	167,229	28.0%
Oil and Chemical Tankers	51,893	34.1%	139,691	31.4%	191,584	32.1%
Gas Tankers	7,604	5.0%	38,347	8.6%	45,951	7.7%
Other Tankers						
Passenger Ships	2,927	1.9%	14,484	3.3%	17,411	2.9%
Offshore Vessels	4,661	3.1%	17,256	3.9%	21,917	3.7%
Service Ships	155	0.1%	746	0.2%	901	0.2%
Tugs						
<b>Total</b>	<b>152,294</b>	<b>100%</b>	<b>444,993</b>	<b>100%</b>	<b>597,287</b>	<b>100%</b>

Source: Equasis <sup>(1)</sup> GT≥60.000**Graph 19 - Total number of very large ships, by flag****Graph 20 - Gross tonnage of very large ships, by flag**

## 2.4. SHIP SIGHTINGS BY GEOGRAPHICAL AREA

**Table 21 - Ship Sightings: total distinct number of ships sighted by area and by size – 2016**

Geographical Area	Small <sup>(1)</sup>		Medium <sup>(2)</sup>		Large <sup>(3)</sup>		Very Large <sup>(4)</sup>		Total	
	Count	%	Count	%	Count	%	Count	%	Count	%
Australia and New Zealand	196	1.3%	1,585	1.7%	2,957	3.9%	1,709	4.5%	6,447	2.9%
East Africa	105	0.7%	1,659	1.8%	4,332	5.7%	2,595	6.8%	8,691	3.9%
East Asia	1,433	9.3%	11,748	12.8%	8,422	11.0%	4,824	12.6%	26,427	11.9%
Mediterranean Sea	3,822	24.9%	14,455	15.8%	7,180	9.4%	3,663	9.6%	29,120	13.1%
Middle America and Gulf of Mexico	541	3.5%	3,765	4.1%	4,711	6.2%	1,756	4.6%	10,773	4.9%
New Guinea Pacific	95	0.6%	1,112	1.2%	1,812	2.4%	794	2.1%	3,813	1.7%
North America East Coast	1,628	10.6%	4,933	5.4%	4,867	6.4%	1,909	5.0%	13,337	6.0%
North America West Coast	452	2.9%	1,647	1.8%	3,260	4.3%	1,153	3.0%	6,512	2.9%
North Asia	8	0.1%	114	0.1%	1	0.0%	7	0.0%	130	0.1%
North Europe	333	2.2%	5,133	5.6%	1,822	2.4%	639	1.7%	7,927	3.6%
South America East Coast	413	2.7%	3,067	3.3%	4,324	5.7%	1,810	4.7%	9,614	4.3%
South America West Coast	74	0.5%	1,129	1.2%	1,425	1.9%	480	1.3%	3,108	1.4%
South Asia	1,788	11.6%	10,862	11.9%	7,683	10.1%	4,208	11.0%	24,541	11.1%
South East Asia	2,618	17.0%	13,796	15.1%	8,611	11.3%	4,819	12.6%	29,844	13.5%
South Africa	137	0.9%	1,853	2.0%	4,634	6.1%	2,560	6.7%	9,184	4.1%
West Africa	827	5.4%	6,724	7.3%	5,544	7.3%	3,022	7.9%	16,117	7.3%
West Europe	905	5.9%	8,040	8.8%	4,693	6.2%	2,308	6.0%	15,946	7.2%
<b>Total</b>	<b>15,375</b>	<b>100%</b>	<b>91,622</b>	<b>100%</b>	<b>76,278</b>	<b>100%</b>	<b>38,256</b>	<b>100%</b>	<b>221,531</b>	<b>100%</b>

Source: As provided by AXSMarine, VesselTracker and MarineTraffic to Equasis <sup>(1)</sup> GT<500 - <sup>(2)</sup> 500≤GT<25.000 - <sup>(3)</sup> 25.000≤GT<60.000 - <sup>(4)</sup> GT≥60.000

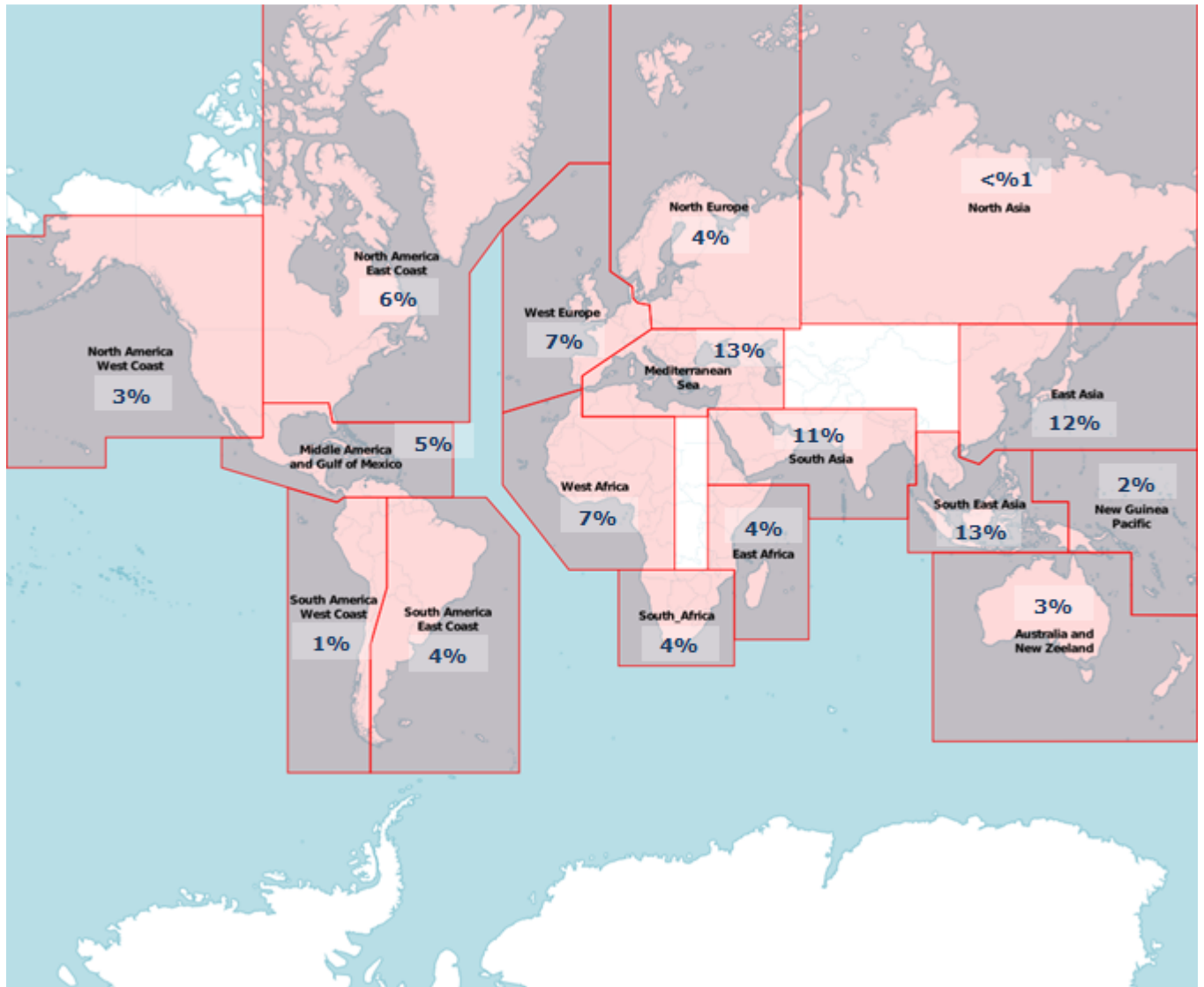
**Table 22 - Ship Sightings: Gross tonnage (in 1000 gt) of distinct ships sighted by area and by size – 2016**

Geographical Area	Small <sup>(1)</sup>		Medium <sup>(2)</sup>		Large <sup>(3)</sup>		Very Large <sup>(4)</sup>		Total	
	Count	%	Count	%	Count	%	Count	%	Count	%
Australia and New Zealand	64	1.3%	21,974	2.5%	119,119	4.1%	154,639	4.3%	295,796	4.0%
East Africa	35	0.7%	22,521	2.5%	168,416	5.8%	277,337	7.7%	468,309	6.3%
East Asia	488	10.2%	100,550	11.3%	323,660	11.1%	505,876	14.1%	930,574	12.6%
Mediterranean Sea	1,180	24.7%	115,102	13.0%	270,500	9.3%	383,750	10.7%	770,532	10.4%
Middle America and Gulf of Mexico	175	3.7%	49,276	5.5%	179,850	6.2%	165,084	4.6%	394,385	5.3%
New Guinea Pacific	30	0.6%	14,487	1.6%	74,096	2.5%	69,918	1.9%	158,531	2.1%
North America East Coast	500	10.5%	54,792	6.2%	186,496	6.4%	177,776	4.9%	419,564	5.7%
North America West Coast	128	2.7%	24,305	2.7%	127,580	4.4%	104,483	2.9%	256,496	3.5%
North Asia	3	0.1%	575	0.1%	34	0.0%	448	0.0%	1,060	0.0%
North Europe	94	2.0%	46,114	5.2%	68,881	2.4%	56,680	1.6%	171,769	2.3%
South America East Coast	136	2.9%	39,601	4.5%	162,931	5.6%	184,269	5.1%	386,937	5.2%
South America West Coast	22	0.5%	16,672	1.9%	51,596	1.8%	43,181	1.2%	111,471	1.5%
South Asia	526	11.0%	100,373	11.3%	292,612	10.0%	442,086	12.3%	835,597	11.3%
South East Asia	825	17.3%	108,496	12.2%	330,086	11.3%	505,669	14.1%	945,076	12.8%
South Africa	46	1.0%	25,565	2.9%	179,644	6.1%	268,635	7.5%	473,890	6.4%
West Africa	261	5.5%	71,501	8.0%	208,982	7.1%	30,988	0.9%	311,732	4.2%
West Europe	257	5.4%	76,543	8.6%	178,821	6.1%	224,452	6.2%	480,073	6.5%
<b>Total</b>	<b>4,770</b>	<b>100%</b>	<b>888,447</b>	<b>100%</b>	<b>2,923,304</b>	<b>100%</b>	<b>3,595,271</b>	<b>100%</b>	<b>7,411,792</b>	<b>100%</b>

Source: As provided by AXSMarine, VesselTracker and MarineTraffic to Equasis <sup>(1)</sup> GT<500 - <sup>(2)</sup> 500≤GT<25.000 - <sup>(3)</sup> 25.000≤GT<60.000 - <sup>(4)</sup> GT≥60.000



**Graph 21 - Ship Sightings: total distinct number of ships sighted by geographical area – 2016 <sup>(1)</sup>**



Sources<sup>(1)</sup>: As provided by AXSMarine, VesselTracker and MarineTraffic to Equasis

## Chapter 3

# 3. Classification Societies

## INTRODUCTION

Classification Societies provide technical and surveying services for the shipping industry and the flag States. On the one hand they survey the ship on behalf of the owner and issue a 'class certificate' for the ship. On the other hand they may be mandated by flag States to undertake statutory surveys on their behalf as *Recognised Organisations*. The main classification societies worldwide are members of the International Association of Classification Societies (IACS).

This chapter and all other tables and graphs dealing with Classification Societies in this publication, with the exception of Chapters 5.5 and 5.6, only refer to the 'class' function; they only indicate the society that issued the class certificates for a particular ship. It does not necessarily follow that the same society is also acting as a Recognised Organisation on behalf of the ship's flag State.

In 2016, IACS consisted of 12 member societies:

- American Bureau of Shipping (ABS)
- Bureau Veritas (BV)
- China Classification Society (CCS)
- Croatian Register of Shipping (CRS)
- Det Norske Veritas - Germanischer Lloyd (DNV - GL)
- Indian Register of Shipping (IRS)
- Korean Register of Shipping (KR)
- Lloyd's Register of Shipping (LR)
- Nippon Kaiji Kyokai (NK)
- Polish Register of Shipping (PRS)
- Registro Italiano Navale (RINA)
- Russian Maritime Register of Shipping (RS)

The tables in this chapter show the proportion of the Equasis fleet  $GT \geq 500$ , in each ship size category and ship type, which were classed by IACS members and those classed by non-IACS members. Data on class comes from classification societies that are data-providers of Equasis while

remaining class information is supplied by IHS Markit Maritime & Trade, when available.

There are 11,493 active ships for which no classification data is available at all in Equasis. This equates to a gross tonnage of 29,665,277, which is 2.3% of the total gross tonnage. These are mainly small tugs and medium sized general cargo ships. When considering only ships above 500 GT, the figures drop to 5,393 ships, representing a total gross tonnage of 28,112,068 (2.2% of the total gross tonnage). For simplicity reasons ships that are not classed by IACS members or for which no class record exists are grouped under the heading "*Non-IACS/No Record*".

In Chapter 3.3 the fleet is analysed according to class and flag State status. Flag States are grouped in two categories, targeted and non-targeted flag, as explained in Chapter 1.

In Chapter 3.4 the detention rate of ships is the ratio between the number of detentions and the number of inspections in the Paris MoU, Tokyo MoU, Indian Ocean MoU, USCG, Viña del Mar MoU Mediterranean MoU and Caribbean MoU. All detentions are taken into account, whether or not the deficiencies giving rise to the detention were indicated by PSC as being related to the activities of the Classification Society or Recognised Organisation.

## RESULTS

Graph 22 shows that the Equasis fleet over 500 GT is dominated by ships classed by IACS members (60% by number and 76% by tonnage).

This proportion is reflected in most of the ship types although general cargo ships account for around a third (32.4%) of the world's fleet over 500GT that are not IACS classed or for which no record was available in Equasis (Table 23). Graphs 24

to 29 show that the IACS share is bigger in parallel to the size category of the ship, with 79% of the large and very large ship size category being classed by IACS, by number and tonnage. Ships covered by non-IACS members or for which no class was recorded are mostly medium sized ships (Graph 24) in contrast with remaining ship size categories.

Graphs 30, 38, 46 and 54 show that the IACS members coverage is greater among the younger fleet and tends to diminish with age – from 81% of ships aged up to 5 years to 31% of the fleet over 25 years old.

Graph 62 shows that 43% of ships originated from Non-Targeted Flags are being classified by IACS members, with 26% of the ships being classed by non-IACS (or no record was found).

In Chapter 3.4, the safety performance of the Equasis fleet over 500 GT, as measured by detention rate, shows that 2.52% of inspections resulted in detention in 2016 (Table 71). Those ships classed by an IACS member had a lower detention ratio in 2016 (1.97%) than those classed with non-IACS members or with no recorded class (4.05%).

For certain ship categories the number of inspections is too small to be statistically significant, thus explaining some of the reported 0% detention rate.

## 3.1. CLASS STATUS

## WORLD FLEET GT≥500: TOTAL NUMBER OF SHIPS, BY TYPE AND CLASS

Table 23 - World fleet GT≥500 : total number of ships, by type and class

Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	4,802	14.1%	7,257	32.4%	12,059	21.4%
Specialized Cargo Ships	180	0.5%	113	0.5%	293	0.5%
Container Ships	2,901	8.5%	2,188	9.8%	5,089	9.0%
Ro-Ro Cargo Ships	984	2.9%	472	2.1%	1,456	2.6%
Bulk Carriers	9,320	27.4%	1,985	8.8%	11,305	20.0%
Oil and Chemical Tankers	7,529	22.1%	3,791	16.9%	11,320	20.1%
Gas Tankers	1,405	4.1%	478	2.1%	1,883	3.3%
Other Tankers	359	1.1%	255	1.1%	614	1.1%
Passenger Ships	1,180	3.5%	1,937	8.6%	3,117	5.5%
Offshore Vessels	3,648	10.7%	2,075	9.3%	5,723	10.1%
Service Ships	1,082	3.2%	1,504	6.7%	2,586	4.6%
Tugs	627	1.8%	376	1.7%	1,003	1.8%
<b>Total</b>	<b>34,017</b>	<b>100%</b>	<b>22,431</b>	<b>100%</b>	<b>56,448</b>	<b>100%</b>

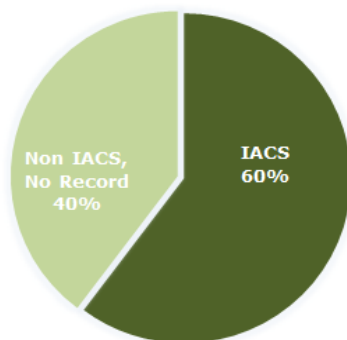
Source: Equasis - IACS membership on 31/12/2016

Table 24 - World fleet GT≥500 : gross tonnage (in 1000 gt) of ships, by type and class

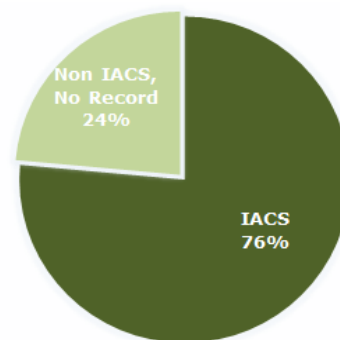
Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	31,909	3.3%	25,525	8.6%	57,434	4.6%
Specialized Cargo Ships	3,577	0.4%	956	0.3%	4,533	0.4%
Container Ships	134,639	14.0%	86,483	29.1%	221,122	17.5%
Ro-Ro Cargo Ships	37,617	3.9%	11,648	3.9%	49,265	3.9%
Bulk Carriers	388,538	40.3%	50,956	17.1%	439,494	34.8%
Oil and Chemical Tankers	255,876	26.5%	72,903	24.5%	328,779	26.1%
Gas Tankers	54,692	5.7%	12,971	4.4%	67,663	5.4%
Other Tankers	1,479	0.2%	466	0.2%	1,945	0.2%
Passenger Ships	23,915	2.5%	14,360	4.8%	38,275	3.0%
Offshore Vessels	25,596	2.7%	16,300	5.5%	41,896	3.3%
Service Ships	5,837	0.6%	4,225	1.4%	10,062	0.8%
Tugs	636	0.1%	351	0.1%	987	0.1%
<b>Total</b>	<b>964,311</b>	<b>100%</b>	<b>297,144</b>	<b>100%</b>	<b>1,261,455</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

Graph 22 - World fleet GT≥500 : total number of ships, by class



Graph 23 - World fleet GT≥500 : gross tonnage of ships, by class



## MEDIUM SIZED SHIPS

**Table 25 - Total number of medium sized<sup>(1)</sup> ships, by type and class**

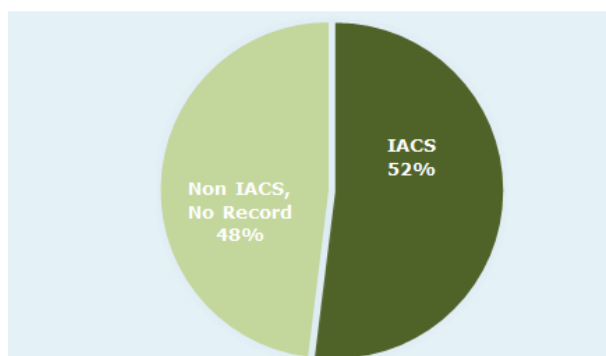
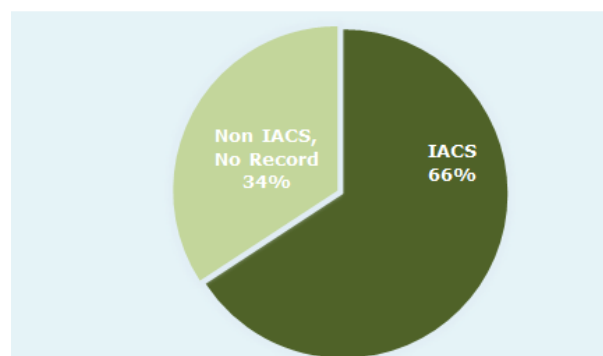
Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	4,700	23.2%	7,130	38.0%	11,830	30.3%
Specialized Cargo Ships	123	0.6%	102	0.5%	225	0.6%
Container Ships	1,234	6.1%	1,019	5.4%	2,253	5.8%
Ro-Ro Cargo Ships	348	1.7%	293	1.6%	641	1.6%
Bulk Carriers	2,594	12.8%	1,198	6.4%	3,792	9.7%
Oil and Chemical Tankers	4,122	20.3%	2,790	14.9%	6,912	17.7%
Gas Tankers	808	4.0%	318	1.7%	1,126	2.9%
Other Tankers	351	1.7%	254	1.4%	605	1.6%
Passenger Ships	853	4.2%	1,821	9.7%	2,674	6.9%
Offshore Vessels	3,454	17.0%	1,948	10.4%	5,402	13.8%
Service Ships	1,060	5.2%	1,494	8.0%	2,554	6.5%
Tugs	627	3.1%	376	2.0%	1,003	2.6%
<b>Total</b>	<b>20,274</b>	<b>100%</b>	<b>18,743</b>	<b>100%</b>	<b>39,017</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 500≤GT<25.000 - IACS membership on 31/12/2016

**Table 26 - Gross tonnage (in 1000 gt) of medium sized<sup>(1)</sup> ships, by type and class**

Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	28,672	19.3%	21,271	27.5%	49,943	22.1%
Specialized Cargo Ships	1,283	0.9%	545	0.7%	1,828	0.8%
Container Ships	15,191	10.2%	11,188	14.5%	26,379	11.7%
Ro-Ro Cargo Ships	4,148	2.8%	2,143	2.8%	6,291	2.8%
Bulk Carriers	44,009	29.6%	12,148	15.7%	56,157	24.8%
Oil and Chemical Tankers	29,297	19.7%	12,611	16.3%	41,908	18.5%
Gas Tankers	5,415	3.6%	1,652	2.1%	7,067	3.1%
Other Tankers	1,241	0.8%	433	0.6%	1,674	0.7%
Passenger Ships	5,540	3.7%	5,588	7.2%	11,128	4.9%
Offshore Vessels	8,671	5.8%	5,773	7.5%	14,444	6.4%
Service Ships	4,568	3.1%	3,667	4.7%	8,235	3.6%
Tugs	636	0.4%	351	0.5%	987	0.4%
<b>Total</b>	<b>148,671</b>	<b>100%</b>	<b>77,370</b>	<b>100%</b>	<b>226,041</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 500≤GT<25.000 - IACS membership on 31/12/2016

**Graph 24 - Total number of medium sized ships, by class****Graph 25 - Gross tonnage of medium sized ships, by class**

## LARGE SHIPS

**Table 27 - Total number of large<sup>(1)</sup> ships, by type and class**

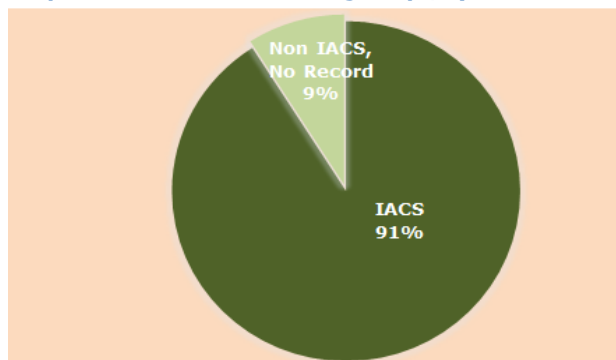
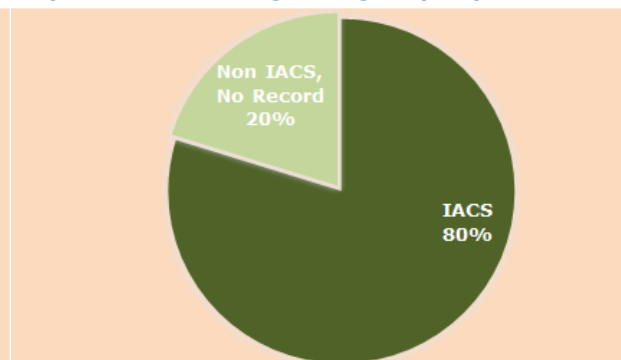
Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	102	1.1%	127	5.3%	229	2.0%
Specialized Cargo Ships	53	0.6%	11	0.5%	64	0.6%
Container Ships	785	8.5%	722	30.0%	1,507	13.0%
Ro-Ro Cargo Ships	463	5.0%	129	5.4%	592	5.1%
Bulk Carriers	5,189	56.4%	641	26.6%	5,830	50.2%
Oil and Chemical Tankers	2,052	22.3%	577	24.0%	2,629	22.6%
Gas Tankers	245	2.7%	92	3.8%	337	2.9%
Other Tankers	8	0.1%	1	0.0%	9	0.1%
Passenger Ships	215	2.3%	57	2.4%	272	2.3%
Offshore Vessels	75	0.8%	45	1.9%	120	1.0%
Service Ships	19	0.2%	7	0.3%	26	0.2%
Tugs						
<b>Total</b>	<b>9,206</b>	<b>100%</b>	<b>2,409</b>	<b>100%</b>	<b>11,615</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 25.000≤GT<60.000 - IACS membership on 31/12/2016

**Table 28 - Gross tonnage (in 1000 gt) of large<sup>(1)</sup> ships, by type and class**

Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	3,237	0.9%	4,254	4.8%	7,491	1.7%
Specialized Cargo Ships	1,990	0.6%	411	0.5%	2,401	0.5%
Container Ships	30,913	8.8%	26,770	30.2%	57,683	13.2%
Ro-Ro Cargo Ships	21,975	6.3%	6,069	6.9%	28,044	6.4%
Bulk Carriers	193,685	55.4%	22,422	25.3%	216,107	49.3%
Oil and Chemical Tankers	75,006	21.5%	20,280	22.9%	95,286	21.7%
Gas Tankers	10,731	3.1%	3,914	4.4%	14,645	3.3%
Other Tankers	238	0.1%	33	0.0%	271	0.1%
Passenger Ships	7,704	2.2%	2,031	2.3%	9,735	2.2%
Offshore Vessels	3,440	1.0%	2,095	2.4%	5,535	1.3%
Service Ships	654	0.2%	272	0.3%	926	0.2%
Tugs						
<b>Total</b>	<b>349,573</b>	<b>100%</b>	<b>88,551</b>	<b>100%</b>	<b>438,124</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 25.000≤GT<60.000 - IACS membership on 31/12/2016

**Graph 26 - Total number of large ships, by class****Graph 27 - Gross tonnage of large ships, by class**

## VERY LARGE SHIPS

**Table 29 - Total number of very large<sup>(1)</sup> ships, by type and class**

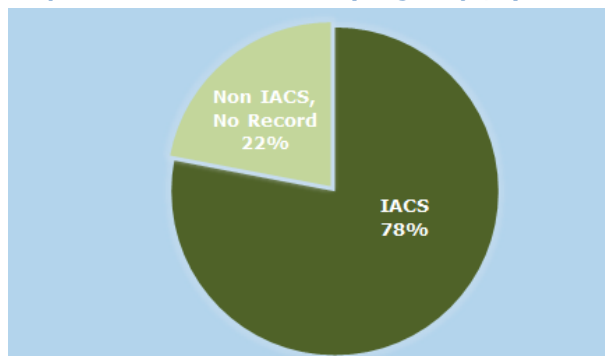
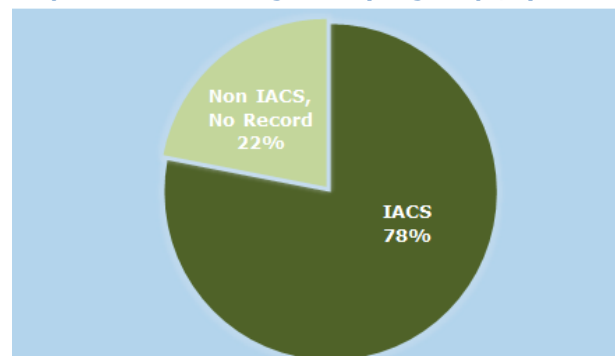
Ship Type	IACS		Non IACS/No Record		Total	
General Cargo Ships						
Specialized Cargo Ships	4	0.1%			4	0.1%
Container Ships	882	19.4%	447	34.9%	1,329	22.9%
Ro-Ro Cargo Ships	173	3.8%	50	3.9%	223	3.8%
Bulk Carriers	1,537	33.9%	146	11.4%	1,683	28.9%
Oil and Chemical Tankers	1,355	29.9%	424	33.2%	1,779	30.6%
Gas Tankers	352	7.8%	68	5.3%	420	7.2%
Other Tankers						
Passenger Ships	112	2.5%	59	4.6%	171	2.9%
Offshore Vessels	119	2.6%	82	6.4%	201	3.5%
Service Ships	3	0.1%	3	0.2%	6	0.1%
Tugs						
<b>Total</b>	<b>4,537</b>	<b>100%</b>	<b>1,279</b>	<b>100%</b>	<b>5,816</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> GT≥60.000 - IACS membership on 31/12/2016

**Table 30 - Gross tonnage (in 1000 gt) of very large<sup>(1)</sup> ships, by type and class**

Ship Type	IACS		Non IACS/No Record		Total	
General Cargo Ships						
Specialized Cargo Ships	304	0.1%			304	0.1%
Container Ships	88,535	19.0%	48,525	37.0%	137,060	22.9%
Ro-Ro Cargo Ships	11,494	2.5%	3,436	2.6%	14,930	2.5%
Bulk Carriers	150,844	32.4%	16,386	12.5%	167,230	28.0%
Oil and Chemical Tankers	151,573	32.5%	40,012	30.5%	191,585	32.1%
Gas Tankers	38,546	8.3%	7,405	5.6%	45,951	7.7%
Other Tankers						
Passenger Ships	10,671	2.3%	6,741	5.1%	17,412	2.9%
Offshore Vessels	13,485	2.9%	8,432	6.4%	21,917	3.7%
Service Ships	615	0.1%	286	0.2%	901	0.2%
Tugs						
<b>Total</b>	<b>466,067</b>	<b>100%</b>	<b>131,223</b>	<b>100%</b>	<b>597,290</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> GT≥60.000 - IACS membership on 31/12/2016

**Graph 28 - Total number of very large ships, by class****Graph 29 - Gross tonnage of very large ships, by class**

## 3.2. CLASS STATUS AND AGE

### 0-4 YEARS OLD SHIPS

**Table 31 - World fleet GT≥500: total number of 0-4 years old ships, by type and class**

Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	430	6.4%	358	15.3%	788	8.7%
Specialized Cargo Ships	34	0.5%	8	0.3%	42	0.5%
Container Ships	513	7.6%	348	14.8%	861	9.5%
Ro-Ro Cargo Ships	111	1.6%	48	2.0%	159	1.7%
Bulk Carriers	2,569	38.0%	413	17.6%	2,982	32.8%
Oil and Chemical Tankers	1,296	19.2%	377	16.1%	1,673	18.4%
Gas Tankers	376	5.6%	89	3.8%	465	5.1%
Other Tankers	111	1.6%	22	0.9%	133	1.5%
Passenger Ships	107	1.6%	184	7.8%	291	3.2%
Offshore Vessels	935	13.8%	299	12.8%	1,234	13.6%
Service Ships	175	2.6%	171	7.3%	346	3.8%
Tugs	103	1.5%	28	1.2%	131	1.4%
<b>Total</b>	<b>6,760</b>	<b>100%</b>	<b>2,345</b>	<b>100%</b>	<b>9,105</b>	<b>100%</b>

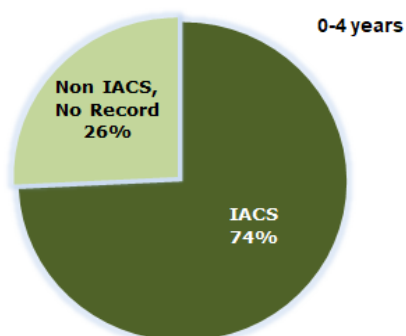
Source: Equasis - IACS membership on 31/12/2016

**Table 32 - World fleet GT≥500: gross tonnage (in 1000 gt) of ships 0-4 years old, by type and class**

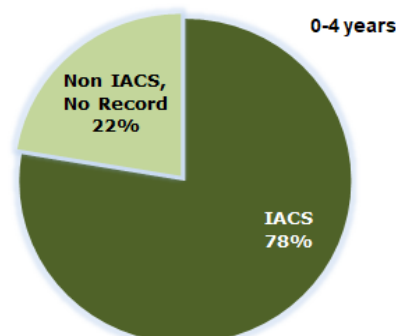
Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	4,642	1.9%	2,560	3.6%	7,202	2.3%
Specialized Cargo Ships	891	0.4%	169	0.2%	1,060	0.3%
Container Ships	40,967	16.8%	23,774	33.8%	64,741	20.6%
Ro-Ro Cargo Ships	5,695	2.3%	2,536	3.6%	8,231	2.6%
Bulk Carriers	114,254	46.7%	14,258	20.3%	128,512	40.8%
Oil and Chemical Tankers	52,469	21.5%	12,753	18.1%	65,222	20.7%
Gas Tankers	16,435	6.7%	5,033	7.1%	21,468	6.8%
Other Tankers	573	0.2%	103	0.1%	676	0.2%
Passenger Ships	2,199	0.9%	2,978	4.2%	5,177	1.6%
Offshore Vessels	5,190	2.1%	5,446	7.7%	10,636	3.4%
Service Ships	1,105	0.5%	747	1.1%	1,852	0.6%
Tugs	108	0.0%	35	0.0%	143	0.0%
<b>Total</b>	<b>244,528</b>	<b>100%</b>	<b>70,392</b>	<b>100%</b>	<b>314,920</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Graph 30 - World fleet GT≥500: total number of 0-4 years old ships, by class**



**Graph 31 - World fleet GT≥500: gross tonnage of 0-4 years old of ships, by class**





## 0-4 YEARS OLD MEDIUM SIZED SHIPS

**Table 33 - Total number of 0-4 years old medium sized<sup>(1)</sup> ships, by type and class**

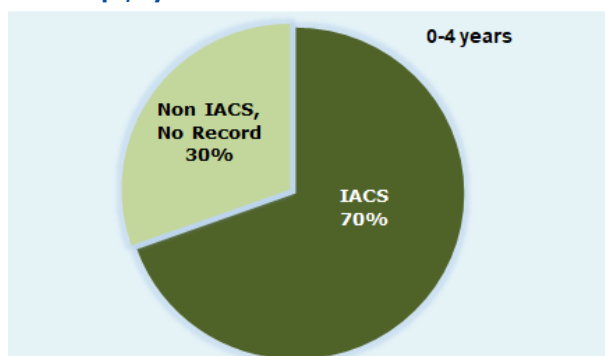
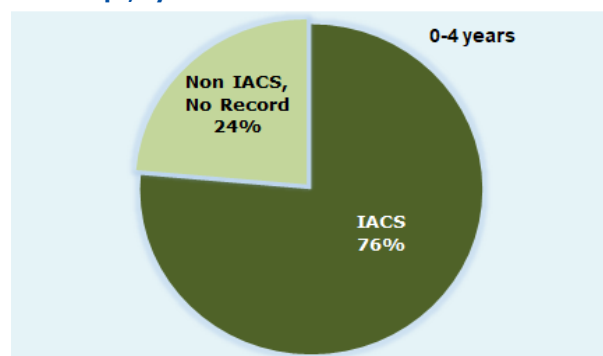
Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	391	12.0%	321	22.5%	712	15.2%
Specialized Cargo Ships	23	0.7%	5	0.3%	28	0.6%
Container Ships	134	4.1%	96	6.7%	230	4.9%
Ro-Ro Cargo Ships	28	0.9%	7	0.5%	35	0.7%
Bulk Carriers	582	17.8%	154	10.8%	736	15.7%
Oil and Chemical Tankers	569	17.4%	183	12.8%	752	16.0%
Gas Tankers	167	5.1%	22	1.5%	189	4.0%
Other Tankers	108	3.3%	22	1.5%	130	2.8%
Passenger Ships	86	2.6%	165	11.5%	251	5.4%
Offshore Vessels	899	27.6%	257	18.0%	1,156	24.6%
Service Ships	172	5.3%	169	11.8%	341	7.3%
Tugs	103	3.2%	28	2.0%	131	2.8%
<b>Total</b>	<b>3,262</b>	<b>100%</b>	<b>1,429</b>	<b>100%</b>	<b>4,691</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Table 34 - Gross tonnage (in 1000 gt) of 0-4 years old medium sized<sup>(1)</sup> ships, by type and class**

Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	3,361	11.9%	1,335	15.3%	4,696	12.7%
Specialized Cargo Ships	286	1.0%	52	0.6%	338	0.9%
Container Ships	1,752	6.2%	1,134	13.0%	2,886	7.8%
Ro-Ro Cargo Ships	342	1.2%	76	0.9%	418	1.1%
Bulk Carriers	12,041	42.7%	1,814	20.8%	13,855	37.6%
Oil and Chemical Tankers	4,314	15.3%	982	11.3%	5,296	14.4%
Gas Tankers	1,444	5.1%	312	3.6%	1,756	4.8%
Other Tankers	491	1.7%	103	1.2%	594	1.6%
Passenger Ships	352	1.2%	724	8.3%	1,076	2.9%
Offshore Vessels	3,043	10.8%	1,460	16.8%	4,503	12.2%
Service Ships	641	2.3%	682	7.8%	1,323	3.6%
Tugs	108	0.4%	35	0.4%	143	0.4%
<b>Total</b>	<b>28,175</b>	<b>100%</b>	<b>8,709</b>	<b>100%</b>	<b>36,884</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Graph 32 - Total number of 0-4 years old medium sized ships, by class****Graph 33 - Gross tonnage of 0-4 years old medium sized ships, by class**

## 0-4 YEARS OLD LARGE SHIPS

**Table 35 - Total number of 0-4 years old large<sup>(1)</sup> ships, by type and class**

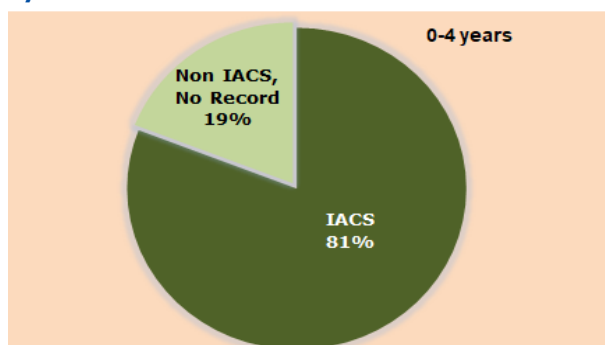
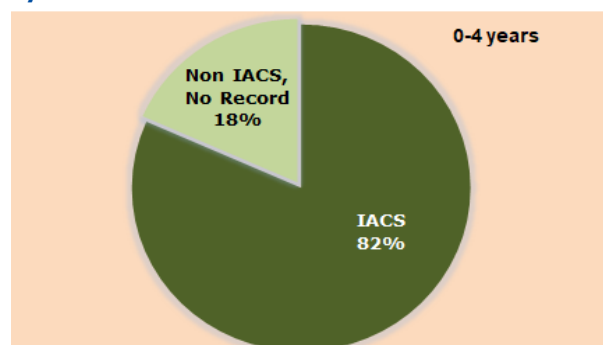
Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	39	1.7%	37	6.8%	76	2.7%
Specialized Cargo Ships	7	0.3%	3	0.5%	10	0.3%
Container Ships	101	4.4%	101	18.5%	202	7.1%
Ro-Ro Cargo Ships	34	1.5%	20	3.7%	54	1.9%
Bulk Carriers	1,582	68.4%	222	40.7%	1,804	63.1%
Oil and Chemical Tankers	397	17.2%	107	19.6%	504	17.6%
Gas Tankers	122	5.3%	38	7.0%	160	5.6%
Other Tankers	3	0.1%			3	0.1%
Passenger Ships	11	0.5%	4	0.7%	15	0.5%
Offshore Vessels	16	0.7%	12	2.2%	28	1.0%
Service Ships	2	0.1%	2	0.4%	4	0.1%
Tugs						
<b>Total</b>	<b>2,314</b>	<b>100%</b>	<b>546</b>	<b>100%</b>	<b>2,860</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Table 36 - Gross tonnage (in 1000 gt) of 0-4 years old large<sup>(1)</sup> ships, by type and class**

Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	1,281	1.5%	1,225	6.2%	2,506	2.3%
Specialized Cargo Ships	301	0.3%	117	0.6%	418	0.4%
Container Ships	4,039	4.6%	3,833	19.5%	7,872	7.3%
Ro-Ro Cargo Ships	1,812	2.1%	950	4.8%	2,762	2.6%
Bulk Carriers	60,525	69.2%	7,943	40.4%	68,468	63.9%
Oil and Chemical Tankers	12,880	14.7%	3,240	16.5%	16,120	15.0%
Gas Tankers	5,244	6.0%	1,628	8.3%	6,872	6.4%
Other Tankers	82	0.1%			82	0.1%
Passenger Ships	490	0.6%	134	0.7%	624	0.6%
Offshore Vessels	745	0.9%	538	2.7%	1,283	1.2%
Service Ships	61	0.1%	65	0.3%	126	0.1%
Tugs						
<b>Total</b>	<b>87,460</b>	<b>100%</b>	<b>19,673</b>	<b>100%</b>	<b>107,133</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Graph 34 - Total number of 0-4 years old large ships, by class****Graph 35 - Gross tonnage of 0-4 years old large ships, by class**

## 0-4 YEARS OLD VERY LARGE SHIPS

**Table 37 - Total number of 0-4 years old very large<sup>(1)</sup> ships, by type and class**

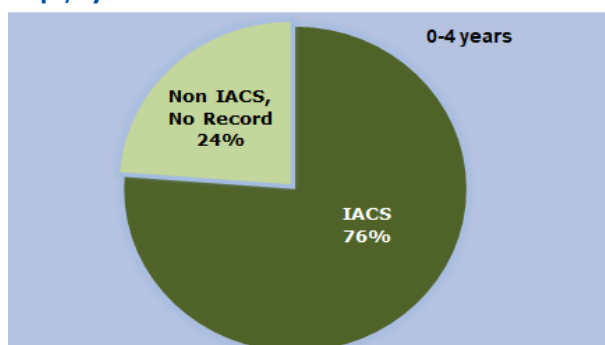
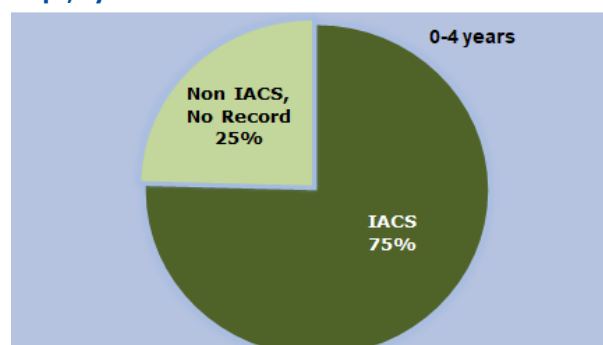
Ship Type	IACS		Non IACS/No Record		Total	
General Cargo Ships						
Specialized Cargo Ships	4	0.3%			4	0.3%
Container Ships	278	23.5%	151	40.8%	429	27.6%
Ro-Ro Cargo Ships	49	4.1%	21	5.7%	70	4.5%
Bulk Carriers	405	34.2%	37	10.0%	442	28.4%
Oil and Chemical Tankers	330	27.9%	87	23.5%	417	26.8%
Gas Tankers	87	7.3%	29	7.8%	116	7.5%
Other Tankers						
Passenger Ships	10	0.8%	15	4.1%	25	1.6%
Offshore Vessels	20	1.7%	30	8.1%	50	3.2%
Service Ships	1	0.1%			1	0.1%
Tugs						
<b>Total</b>	<b>1,184</b>	<b>100%</b>	<b>370</b>	<b>100%</b>	<b>1,554</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Table 38 - Gross tonnage (in 1000 gt) of 0-4 years old very large<sup>(1)</sup> ships, by type and class**

Ship Type	IACS		Non IACS/No Record		Total	
General Cargo Ships						
Specialized Cargo Ships	304	0.2%			304	0.2%
Container Ships	35,176	27.3%	18,807	44.8%	53,983	31.6%
Ro-Ro Cargo Ships	3,541	2.7%	1,510	3.6%	5,051	3.0%
Bulk Carriers	41,688	32.3%	4,501	10.7%	46,189	27.0%
Oil and Chemical Tankers	35,275	27.4%	8,531	20.3%	43,806	25.6%
Gas Tankers	9,747	7.6%	3,093	7.4%	12,840	7.5%
Other Tankers						
Passenger Ships	1,357	1.1%	2,120	5.0%	3,477	2.0%
Offshore Vessels	1,402	1.1%	3,448	8.2%	4,850	2.8%
Service Ships	403	0.3%			403	0.2%
Tugs						
<b>Total</b>	<b>128,893</b>	<b>100%</b>	<b>42,010</b>	<b>100%</b>	<b>170,903</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Graph 36 - Total number of 0-4 years old very large ships, by class****Graph 37 - Gross tonnage of 0-4 years old very large ships, by class**

## 5-14 YEARS OLD SHIPS

**Table 39 - World fleet GT≥500: total number of 5-14 years old ships, by type and class**

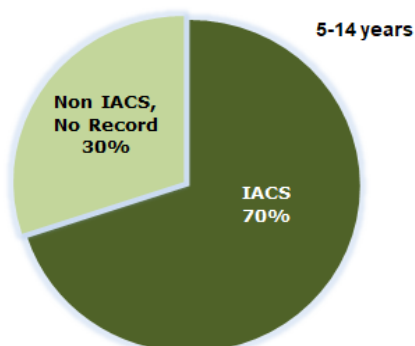
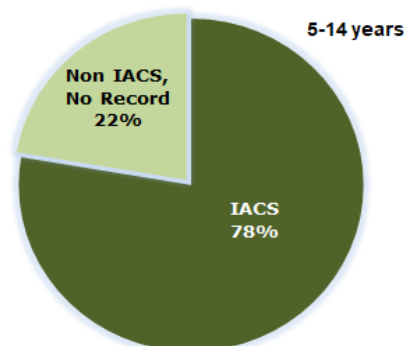
Ship Type	IACS		Non IACS/No Record		Total	
General Cargo Ships	1,818	11.1%	1,848	26.3%	3,666	15.7%
Specialized Cargo Ships	54	0.3%	9	0.1%	63	0.3%
Container Ships	1,519	9.3%	1,214	17.3%	2,733	11.7%
Ro-Ro Cargo Ships	447	2.7%	156	2.2%	603	2.6%
Bulk Carriers	4,933	30.2%	953	13.6%	5,886	25.2%
Oil and Chemical Tankers	4,327	26.5%	1,235	17.6%	5,562	23.8%
Gas Tankers	572	3.5%	138	2.0%	710	3.0%
Other Tankers	137	0.8%	38	0.5%	175	0.7%
Passenger Ships	292	1.8%	392	5.6%	684	2.9%
Offshore Vessels	1,738	10.6%	706	10.0%	2,444	10.5%
Service Ships	261	1.6%	272	3.9%	533	2.3%
Tugs	248	1.5%	66	0.9%	314	1.3%
<b>Total</b>	<b>16,346</b>	<b>100%</b>	<b>7,027</b>	<b>100%</b>	<b>23,373</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Table 40 - World fleet GT≥500: gross tonnage (in 1000 gt) of ships 5-14 years old, by type and class**

Ship Type	IACS		Non IACS/No Record		Total	
General Cargo Ships	13,484	2.6%	9,250	6.2%	22,734	3.4%
Specialized Cargo Ships	830	0.2%	108	0.1%	938	0.1%
Container Ships	71,428	13.7%	49,363	32.9%	120,791	18.0%
Ro-Ro Cargo Ships	20,535	3.9%	6,511	4.3%	27,046	4.0%
Bulk Carriers	217,071	41.6%	26,601	17.8%	243,672	36.3%
Oil and Chemical Tankers	153,555	29.4%	41,517	27.7%	195,072	29.1%
Gas Tankers	26,604	5.1%	6,398	4.3%	33,002	4.9%
Other Tankers	652	0.1%	94	0.1%	746	0.1%
Passenger Ships	9,043	1.7%	4,236	2.8%	13,279	2.0%
Offshore Vessels	6,257	1.2%	4,785	3.2%	11,042	1.6%
Service Ships	1,680	0.3%	918	0.6%	2,598	0.4%
Tugs	281	0.1%	75	0.1%	356	0.1%
<b>Total</b>	<b>521,420</b>	<b>100%</b>	<b>149,856</b>	<b>100%</b>	<b>671,276</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Graph 38 - World fleet GT≥500: total number of 5-14 years old ships, by class****Graph 39 - World fleet GT≥500: gross tonnage of 5-14 years old of ships, by class**

## 5-14 YEARS OLD MEDIUM SIZED SHIPS

**Table 41 - Total number of 5-14 years old medium sized<sup>(1)</sup> ships, by type and class**

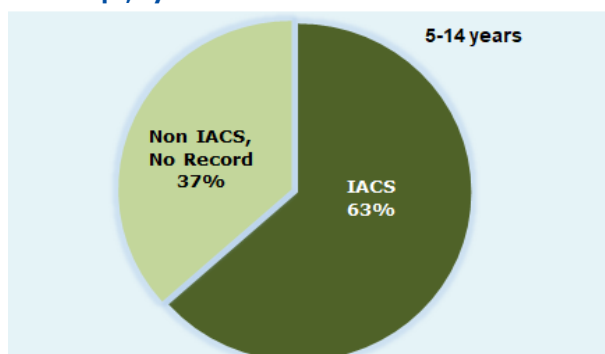
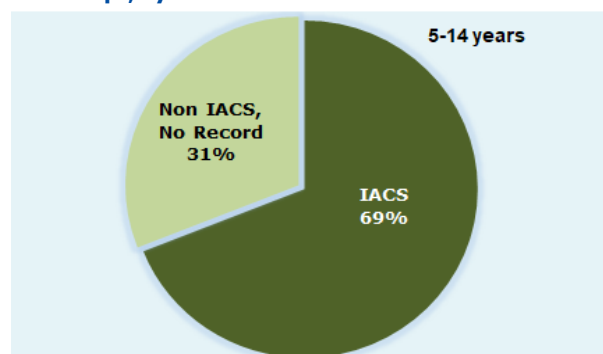
Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	1,794	20.6%	1,808	36.0%	3,602	26.2%
Specialized Cargo Ships	46	0.5%	9	0.2%	55	0.4%
Container Ships	525	6.0%	514	10.2%	1,039	7.6%
Ro-Ro Cargo Ships	72	0.8%	41	0.8%	113	0.8%
Bulk Carriers	1,226	14.1%	567	11.3%	1,793	13.1%
Oil and Chemical Tankers	2,236	25.7%	615	12.2%	2,851	20.8%
Gas Tankers	315	3.6%	57	1.1%	372	2.7%
Other Tankers	133	1.5%	38	0.8%	171	1.2%
Passenger Ships	166	1.9%	360	7.2%	526	3.8%
Offshore Vessels	1,694	19.5%	677	13.5%	2,371	17.3%
Service Ships	252	2.9%	270	5.4%	522	3.8%
Tugs	248	2.8%	66	1.3%	314	2.3%
<b>Total</b>	<b>8,707</b>	<b>100%</b>	<b>5,022</b>	<b>100%</b>	<b>13,729</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Table 42 - Gross tonnage (in 1000 gt) of 5-14 years old medium sized<sup>(1)</sup> ships, by type and class**

Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	12,666	18.3%	7,811	25.1%	20,477	20.4%
Specialized Cargo Ships	540	0.8%	108	0.3%	648	0.6%
Container Ships	6,465	9.3%	5,979	19.2%	12,444	12.4%
Ro-Ro Cargo Ships	954	1.4%	580	1.9%	1,534	1.5%
Bulk Carriers	21,927	31.7%	6,393	20.6%	28,320	28.3%
Oil and Chemical Tankers	17,549	25.4%	4,753	15.3%	22,302	22.2%
Gas Tankers	2,147	3.1%	630	2.0%	2,777	2.8%
Other Tankers	524	0.8%	94	0.3%	618	0.6%
Passenger Ships	926	1.3%	1,196	3.8%	2,122	2.1%
Offshore Vessels	3,808	5.5%	2,655	8.5%	6,463	6.4%
Service Ships	1,364	2.0%	816	2.6%	2,180	2.2%
Tugs	281	0.4%	75	0.2%	356	0.4%
<b>Total</b>	<b>69,151</b>	<b>100%</b>	<b>31,090</b>	<b>100%</b>	<b>100,241</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Graph 40 - Total number of 5-14 years old medium sized ships, by class****Graph 41 - Gross tonnage of 5-14 years old medium sized ships, by class**

## 5-14 YEARS OLD LARGE SHIPS

**Table 43 - Total number of 5-14 years old large<sup>(1)</sup> ships, by type and class**

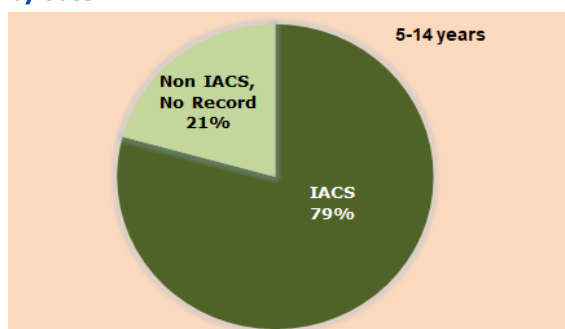
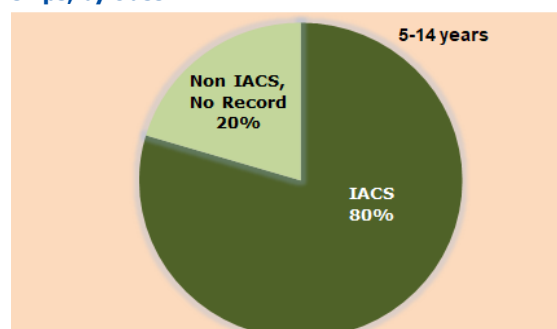
Ship Type	IACS		Non IACS/No Record		Total	
General Cargo Ships	24	0.5%	40	3.0%	64	1.0%
Specialized Cargo Ships	8	0.2%			8	0.1%
Container Ships	509	10.2%	452	34.4%	961	15.2%
Ro-Ro Cargo Ships	265	5.3%	91	6.9%	356	5.6%
Bulk Carriers	2,744	54.7%	298	22.7%	3,042	48.1%
Oil and Chemical Tankers	1,292	25.8%	363	27.6%	1,655	26.2%
Gas Tankers	62	1.2%	48	3.7%	110	1.7%
Other Tankers	4	0.1%			4	0.1%
Passenger Ships	70	1.4%	9	0.7%	79	1.2%
Offshore Vessels	25	0.5%	11	0.8%	36	0.6%
Service Ships	9	0.2%	2	0.2%	11	0.2%
Tugs						
<b>Total</b>	<b>5,012</b>	<b>100%</b>	<b>1,314</b>	<b>100%</b>	<b>6,326</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Table 44 - Gross tonnage (in 1000 gt) of 5-14 years old large<sup>(1)</sup> ships, by type and class**

Ship Type	IACS		Non IACS/No Record		Total	
General Cargo Ships	818	0.4%	1,439	2.9%	2,257	0.9%
Specialized Cargo Ships	290	0.2%			290	0.1%
Container Ships	20,389	10.6%	17,010	34.6%	37,399	15.5%
Ro-Ro Cargo Ships	12,581	6.5%	4,342	8.8%	16,923	7.0%
Bulk Carriers	103,479	53.8%	10,541	21.4%	114,020	47.2%
Oil and Chemical Tankers	47,779	24.9%	12,863	26.1%	60,642	25.1%
Gas Tankers	2,795	1.5%	2,031	4.1%	4,826	2.0%
Other Tankers	128	0.1%			128	0.1%
Passenger Ships	2,500	1.3%	318	0.6%	2,818	1.2%
Offshore Vessels	1,150	0.6%	557	1.1%	1,707	0.7%
Service Ships	316	0.2%	102	0.2%	418	0.2%
Tugs						
<b>Total</b>	<b>192,225</b>	<b>100%</b>	<b>49,203</b>	<b>100%</b>	<b>241,428</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Graph 42 - Total number of 5-14 years old large ships, by class****Graph 43 - Gross tonnage of 5-14 years old large ships, by class**

## 5-14 YEARS OLD VERY LARGE SHIPS

**Table 45 - Total number of 5-14 years old very large<sup>(1)</sup> ships, by type and class**

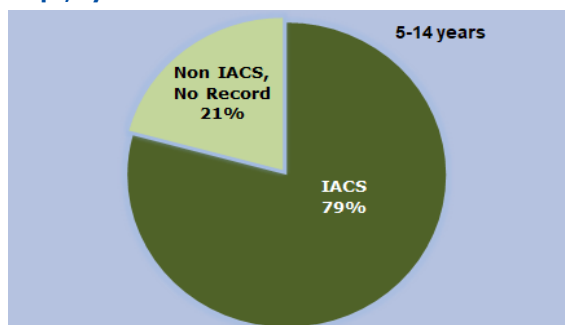
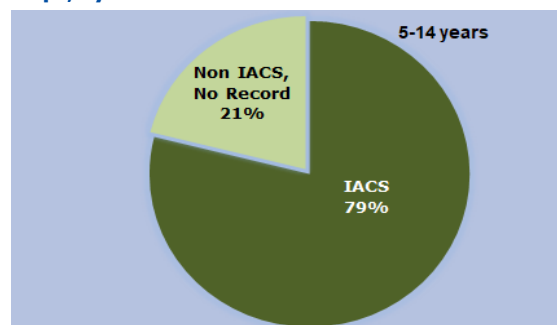
Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships						
Specialized Cargo Ships						
Container Ships	485	18.5%	248	35.9%	733	22.1%
Ro-Ro Cargo Ships	110	4.2%	24	3.5%	134	4.0%
Bulk Carriers	963	36.7%	88	12.7%	1,051	31.7%
Oil and Chemical Tankers	799	30.4%	257	37.2%	1,056	31.8%
Gas Tankers	195	7.4%	33	4.8%	228	6.9%
Other Tankers						
Passenger Ships	56	2.1%	23	3.3%	79	2.4%
Offshore Vessels	19	0.7%	18	2.6%	37	1.1%
Service Ships						
Tugs						
<b>Total</b>	<b>2,627</b>	<b>100%</b>	<b>691</b>	<b>100%</b>	<b>3,318</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Table 46 - Gross tonnage (in 1000 gt) of 5-14 years old very large<sup>(1)</sup> ships, by type and class**

Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships						
Specialized Cargo Ships						
Container Ships	44,574	17.1%	26,374	37.9%	70,948	21.5%
Ro-Ro Cargo Ships	7,000	2.7%	1,589	2.3%	8,589	2.6%
Bulk Carriers	91,665	35.2%	9,667	13.9%	101,332	30.7%
Oil and Chemical Tankers	88,227	33.9%	23,901	34.4%	112,128	34.0%
Gas Tankers	21,662	8.3%	3,737	5.4%	25,399	7.7%
Other Tankers						
Passenger Ships	5,617	2.2%	2,722	3.9%	8,339	2.5%
Offshore Vessels	1,299	0.5%	1,573	2.3%	2,872	0.9%
Service Ships						
Tugs						
<b>Total</b>	<b>260,044</b>	<b>100%</b>	<b>69,563</b>	<b>100%</b>	<b>329,607</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Graph 44 - Total number of 5-14 years old very large ships, by class****Graph 45 - Gross tonnage of 5-14 years old very large ships, by class**

## 15-24 YEARS OLD SHIPS

**Table 47 - World fleet GT≥500: total number of 15-24 years old ships, by type and class**

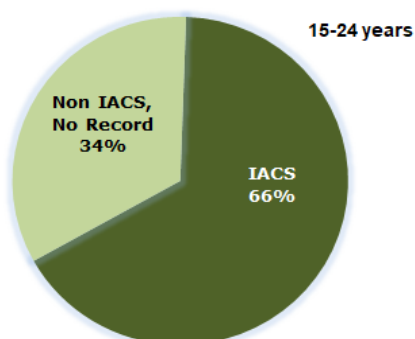
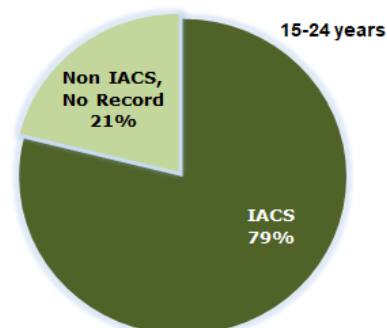
Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	1,269	19.5%	993	30.1%	2,262	23.1%
Specialized Cargo Ships	30	0.5%	1	0.0%	31	0.3%
Container Ships	770	11.8%	511	15.5%	1,281	13.1%
Ro-Ro Cargo Ships	279	4.3%	69	2.1%	348	3.6%
Bulk Carriers	1,451	22.3%	203	6.2%	1,654	16.9%
Oil and Chemical Tankers	1,388	21.4%	593	18.0%	1,981	20.2%
Gas Tankers	319	4.9%	54	1.6%	373	3.8%
Other Tankers	42	0.6%	21	0.6%	63	0.6%
Passenger Ships	350	5.4%	426	12.9%	776	7.9%
Offshore Vessels	336	5.2%	204	6.2%	540	5.5%
Service Ships	192	3.0%	199	6.0%	391	4.0%
Tugs	74	1.1%	25	0.8%	99	1.0%
<b>Total</b>	<b>6,500</b>	<b>100%</b>	<b>3,299</b>	<b>100%</b>	<b>9,799</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Table 48 - World fleet GT≥500: gross tonnage (in 1000 gt) of ships 15-24 years old, by type and class**

Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	8,272	5.2%	4,165	9.7%	12,437	6.1%
Specialized Cargo Ships	512	0.3%	35	0.1%	547	0.3%
Container Ships	20,400	12.7%	11,889	27.7%	32,289	15.9%
Ro-Ro Cargo Ships	8,865	5.5%	1,287	3.0%	10,152	5.0%
Bulk Carriers	49,974	31.1%	4,942	11.5%	54,916	27.0%
Oil and Chemical Tankers	46,902	29.2%	13,616	31.7%	60,518	29.7%
Gas Tankers	8,739	5.4%	667	1.6%	9,406	4.6%
Other Tankers	162	0.1%	83	0.2%	245	0.1%
Passenger Ships	8,045	5.0%	3,614	8.4%	11,659	5.7%
Offshore Vessels	7,352	4.6%	1,936	4.5%	9,288	4.6%
Service Ships	1,268	0.8%	713	1.7%	1,981	1.0%
Tugs	63	0.0%	22	0.1%	85	0.0%
<b>Total</b>	<b>160,554</b>	<b>100%</b>	<b>42,969</b>	<b>100%</b>	<b>203,523</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Graph 46 - World fleet GT≥500: total number of 15-24 years old ships, by class****Graph 47 - World fleet GT≥500: gross tonnage of 15-24 years old of ships, by class**



## 15-24 YEARS OLD MEDIUM SIZED SHIPS

**Table 49 - Total number of 15-24 years old medium sized<sup>(1)</sup> ships, by type and class**

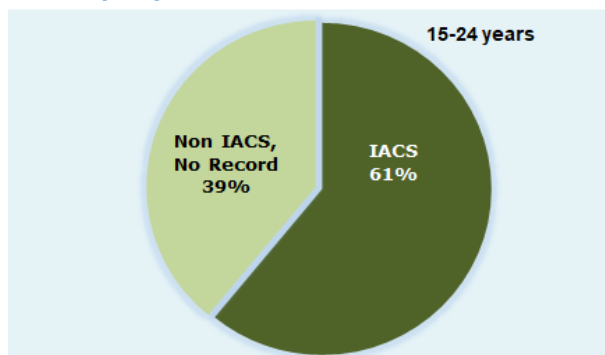
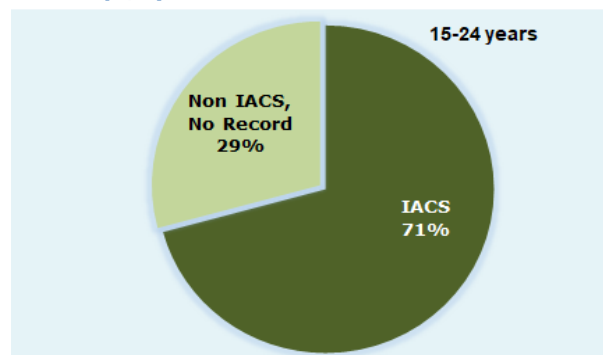
Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	1,242	29.1%	957	35.0%	2,199	31.4%
Specialized Cargo Ships	22	0.5%			22	0.3%
Container Ships	505	11.8%	310	11.3%	815	11.6%
Ro-Ro Cargo Ships	134	3.1%	52	1.9%	186	2.7%
Bulk Carriers	500	11.7%	110	4.0%	610	8.7%
Oil and Chemical Tankers	830	19.5%	435	15.9%	1,265	18.1%
Gas Tankers	227	5.3%	49	1.8%	276	3.9%
Other Tankers	41	1.0%	20	0.7%	61	0.9%
Passenger Ships	221	5.2%	392	14.3%	613	8.8%
Offshore Vessels	282	6.6%	184	6.7%	466	6.7%
Service Ships	187	4.4%	198	7.2%	385	5.5%
Tugs	74	1.7%	25	0.9%	99	1.4%
<b>Total</b>	<b>4,265</b>	<b>100%</b>	<b>2,732</b>	<b>100%</b>	<b>6,997</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Table 50 - Gross tonnage (in 1000 gt) of 15-24 years old medium sized<sup>(1)</sup> ships, by type and class**

Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	7,485	22.7%	2,966	21.8%	10,451	22.5%
Specialized Cargo Ships	184	0.6%			184	0.4%
Container Ships	6,122	18.6%	3,290	24.2%	9,412	20.2%
Ro-Ro Cargo Ships	1,678	5.1%	428	3.1%	2,106	4.5%
Bulk Carriers	7,158	21.7%	1,073	7.9%	8,231	17.7%
Oil and Chemical Tankers	5,644	17.1%	2,951	21.7%	8,595	18.5%
Gas Tankers	1,272	3.9%	314	2.3%	1,586	3.4%
Other Tankers	133	0.4%	50	0.4%	183	0.4%
Passenger Ships	1,571	4.8%	1,386	10.2%	2,957	6.4%
Offshore Vessels	651	2.0%	552	4.1%	1,203	2.6%
Service Ships	984	3.0%	558	4.1%	1,542	3.3%
Tugs	63	0.2%	22	0.2%	85	0.2%
<b>Total</b>	<b>32,945</b>	<b>100%</b>	<b>13,590</b>	<b>100%</b>	<b>46,535</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Graph 48 - Total number of 15-24 years old medium sized ships, by class****Graph 49 - Gross tonnage of 15-24 years old medium sized ships, by class**

## 15-24 YEARS OLD LARGE SHIPS

**Table 51 - Total number of 15-24 years old large<sup>(1)</sup> ships, by type and class**

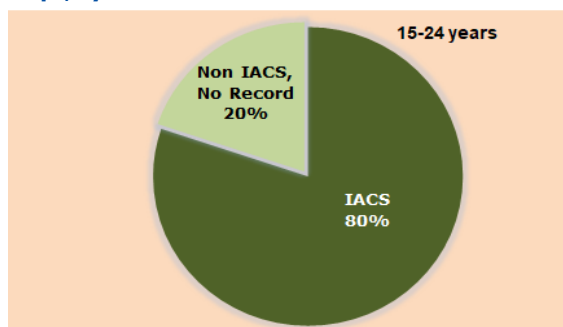
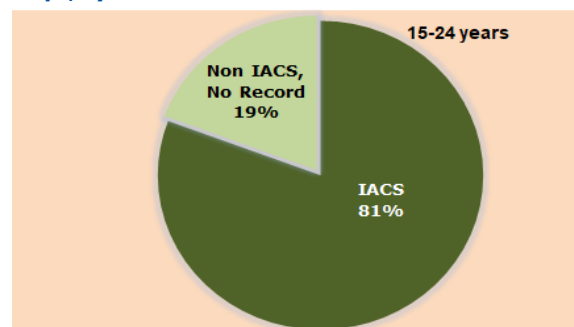
Ship Type	IACS		Non IACS/No Record		Total	
General Cargo Ships	27	1.7%	36	9.2%	63	3.2%
Specialized Cargo Ships	8	0.5%	1	0.3%	9	0.5%
Container Ships	146	9.2%	153	39.1%	299	15.2%
Ro-Ro Cargo Ships	131	8.3%	12	3.1%	143	7.3%
Bulk Carriers	794	50.3%	80	20.5%	874	44.3%
Oil and Chemical Tankers	335	21.2%	81	20.7%	416	21.1%
Gas Tankers	34	2.2%	3	0.8%	37	1.9%
Other Tankers	1	0.1%	1	0.3%	2	0.1%
Passenger Ships	88	5.6%	16	4.1%	104	5.3%
Offshore Vessels	12	0.8%	8	2.0%	20	1.0%
Service Ships	4	0.3%			4	0.2%
Tugs						
<b>Total</b>	<b>1,580</b>	<b>100%</b>	<b>391</b>	<b>100%</b>	<b>1,971</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Table 52 - Gross tonnage (in 1000 gt) of 15-24 years old large<sup>(1)</sup> ships, by type and class**

Ship Type	IACS		Non IACS/No Record		Total	
General Cargo Ships	787	1.3%	1,199	8.5%	1,986	2.7%
Specialized Cargo Ships	328	0.6%	35	0.2%	363	0.5%
Container Ships	5,493	9.4%	5,255	37.5%	10,748	14.8%
Ro-Ro Cargo Ships	6,234	10.6%	522	3.7%	6,756	9.3%
Bulk Carriers	27,042	46.1%	2,613	18.6%	29,655	40.8%
Oil and Chemical Tankers	13,407	22.8%	3,313	23.6%	16,720	23.0%
Gas Tankers	1,504	2.6%	131	0.9%	1,635	2.2%
Other Tankers	29	0.0%	33	0.2%	62	0.1%
Passenger Ships	3,123	5.3%	551	3.9%	3,674	5.1%
Offshore Vessels	611	1.0%	378	2.7%	989	1.4%
Service Ships	137	0.2%			137	0.2%
Tugs						
<b>Total</b>	<b>58,695</b>	<b>100%</b>	<b>14,030</b>	<b>100%</b>	<b>72,725</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Graph 50 - Total number of 15-24 years old large ships, by class****Graph 51 - Gross tonnage of 15-24 years old large ships, by class**

## 15-24 YEARS OLD VERY LARGE SHIPS

**Table 53 - Total number of 15-24 years old very large<sup>(1)</sup> ships, by type and class**

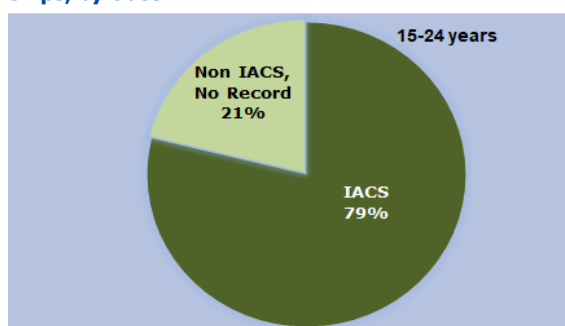
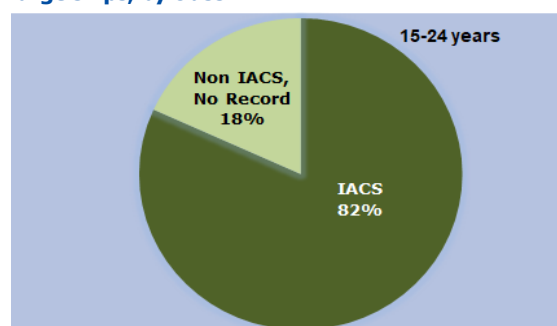
Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships						
Specialized Cargo Ships						
Container Ships	119	18.2%	48	27.3%	167	20.1%
Ro-Ro Cargo Ships	14	2.1%	5	2.8%	19	2.3%
Bulk Carriers	157	24.0%	13	7.4%	170	20.5%
Oil and Chemical Tankers	223	34.0%	77	43.8%	300	36.1%
Gas Tankers	58	8.9%	2	1.1%	60	7.2%
Other Tankers						
Passenger Ships	41	6.3%	18	10.2%	59	7.1%
Offshore Vessels	42	6.4%	12	6.8%	54	6.5%
Service Ships	1	0.2%	1	0.6%	2	0.2%
Tugs						
<b>Total</b>	<b>655</b>	<b>100%</b>	<b>176</b>	<b>100%</b>	<b>831</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Table 54 - Gross tonnage (in 1000 gt) of 15-24 years old very large<sup>(1)</sup> ships, by type and class**

Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships						
Specialized Cargo Ships						
Container Ships	8,785	12.7%	3,344	21.8%	12,129	14.4%
Ro-Ro Cargo Ships	953	1.4%	337	2.2%	1,290	1.5%
Bulk Carriers	15,774	22.9%	1,256	8.2%	17,030	20.2%
Oil and Chemical Tankers	27,851	40.4%	7,352	47.9%	35,203	41.8%
Gas Tankers	5,963	8.7%	222	1.4%	6,185	7.3%
Other Tankers						
Passenger Ships	3,351	4.9%	1,677	10.9%	5,028	6.0%
Offshore Vessels	6,090	8.8%	1,006	6.6%	7,096	8.4%
Service Ships	147	0.2%	155	1.0%	302	0.4%
Tugs						
<b>Total</b>	<b>68,914</b>	<b>100%</b>	<b>15,349</b>	<b>100%</b>	<b>84,263</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Graph 52 - Total number of 15-24 years old very large ships, by class****Graph 53 - Gross tonnage of 15-24 years old very large ships, by class**

## 25+ YEARS OLD SHIPS

**Table 55 - World fleet GT≥500: total number of 25+ years old ships, by type and class**

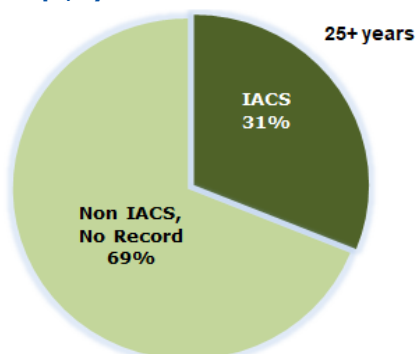
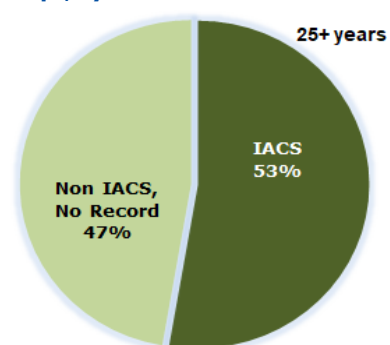
Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	1,285	29.1%	4,058	41.6%	5,343	37.7%
Specialized Cargo Ships	62	1.4%	95	1.0%	157	1.1%
Container Ships	99	2.2%	115	1.2%	214	1.5%
Ro-Ro Cargo Ships	147	3.3%	199	2.0%	346	2.4%
Bulk Carriers	367	8.3%	416	4.3%	783	5.5%
Oil and Chemical Tankers	518	11.7%	1,586	16.3%	2,104	14.8%
Gas Tankers	138	3.1%	197	2.0%	335	2.4%
Other Tankers	69	1.6%	174	1.8%	243	1.7%
Passenger Ships	431	9.8%	935	9.6%	1,366	9.6%
Offshore Vessels	639	14.5%	866	8.9%	1,505	10.6%
Service Ships	454	10.3%	862	8.8%	1,316	9.3%
Tugs	202	4.6%	257	2.6%	459	3.2%
<b>Total</b>	<b>4,411</b>	<b>100%</b>	<b>9,760</b>	<b>100%</b>	<b>14,171</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Table 56 - World fleet GT≥500: gross tonnage (in 1000 gt) of ships 25+ years old, by type and class**

Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	5,513	14.6%	9,550	28.1%	15,063	21.0%
Specialized Cargo Ships	1,344	3.6%	645	1.9%	1,989	2.8%
Container Ships	1,846	4.9%	1,458	4.3%	3,304	4.6%
Ro-Ro Cargo Ships	2,523	6.7%	1,314	3.9%	3,837	5.3%
Bulk Carriers	7,238	19.1%	5,155	15.2%	12,393	17.3%
Oil and Chemical Tankers	2,948	7.8%	5,017	14.8%	7,965	11.1%
Gas Tankers	2,915	7.7%	872	2.6%	3,787	5.3%
Other Tankers	93	0.2%	186	0.5%	279	0.4%
Passenger Ships	4,627	12.2%	3,533	10.4%	8,160	11.4%
Offshore Vessels	6,797	18.0%	4,133	12.2%	10,930	15.2%
Service Ships	1,783	4.7%	1,847	5.4%	3,630	5.1%
Tugs	184	0.5%	219	0.6%	403	0.6%
<b>Total</b>	<b>37,811</b>	<b>100%</b>	<b>33,929</b>	<b>100%</b>	<b>71,740</b>	<b>100%</b>

Source: Equasis - IACS membership on 31/12/2016

**Graph 54 - World fleet GT≥500: total number of 25+ years old ships, by class****Graph 55 - World fleet GT≥500: gross tonnage of 25+ years old of ships, by class**

## 25+ YEARS OLD MEDIUM SIZED SHIPS

**Table 57 - Total number of 25+ years old medium sized<sup>(1)</sup> ships, by type and class**

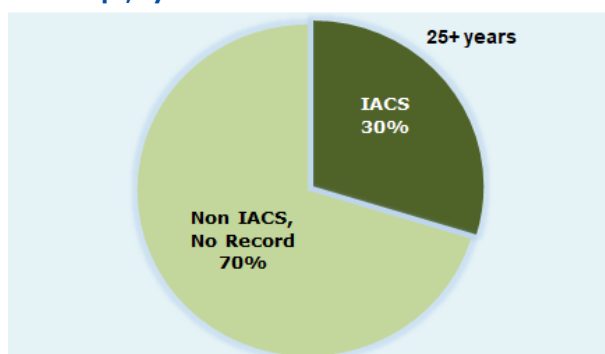
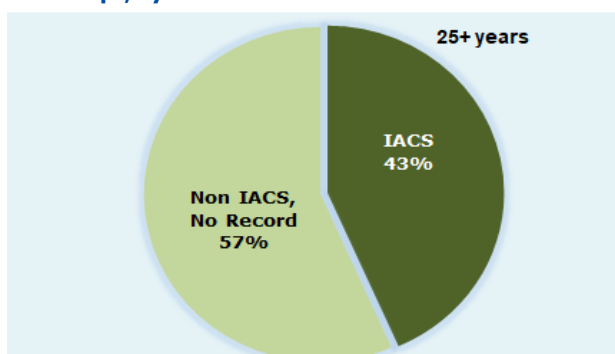
Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	1,273	31.5%	4,044	42.3%	5,317	39.1%
Specialized Cargo Ships	32	0.8%	88	0.9%	120	0.9%
Container Ships	70	1.7%	99	1.0%	169	1.2%
Ro-Ro Cargo Ships	114	2.8%	193	2.0%	307	2.3%
Bulk Carriers	286	7.1%	367	3.8%	653	4.8%
Oil and Chemical Tankers	487	12.1%	1,557	16.3%	2,044	15.0%
Gas Tankers	99	2.5%	190	2.0%	289	2.1%
Other Tankers	69	1.7%	174	1.8%	243	1.8%
Passenger Ships	380	9.4%	904	9.5%	1,284	9.4%
Offshore Vessels	579	14.3%	830	8.7%	1,409	10.4%
Service Ships	449	11.1%	857	9.0%	1,306	9.6%
Tugs	202	5.0%	257	2.7%	459	3.4%
<b>Total</b>	<b>4,040</b>	<b>100%</b>	<b>9,560</b>	<b>100%</b>	<b>13,600</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 500≤GT<25.000 - IACS membership on 31/12/2016

**Table 58 - Gross tonnage (in 1000 gt) of 25+ years old medium sized<sup>(1)</sup> ships, by type and class**

Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	5,161	28.0%	9,159	38.2%	14,320	33.8%
Specialized Cargo Ships	273	1.5%	386	1.6%	659	1.6%
Container Ships	853	4.6%	785	3.3%	1,638	3.9%
Ro-Ro Cargo Ships	1,174	6.4%	1,059	4.4%	2,233	5.3%
Bulk Carriers	2,882	15.7%	2,868	12.0%	5,750	13.6%
Oil and Chemical Tankers	1,789	9.7%	3,925	16.4%	5,714	13.5%
Gas Tankers	552	3.0%	396	1.7%	948	2.2%
Other Tankers	93	0.5%	186	0.8%	279	0.7%
Passenger Ships	2,691	14.6%	2,283	9.5%	4,974	11.7%
Offshore Vessels	1,169	6.4%	1,105	4.6%	2,274	5.4%
Service Ships	1,579	8.6%	1,611	6.7%	3,190	7.5%
Tugs	184	1.0%	219	0.9%	403	1.0%
<b>Total</b>	<b>18,400</b>	<b>100%</b>	<b>23,982</b>	<b>100%</b>	<b>42,382</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 500≤GT<25.000 - IACS membership on 31/12/2016

**Graph 56 - Total number of 25+ years old medium sized ships, by class****Graph 57 - Gross tonnage of 25+ years old medium sized ships, by class**

## 25+ YEARS OLD LARGE SHIPS

**Table 59 - Total number of 25+ years old large<sup>(1)</sup> ships, by type and class**

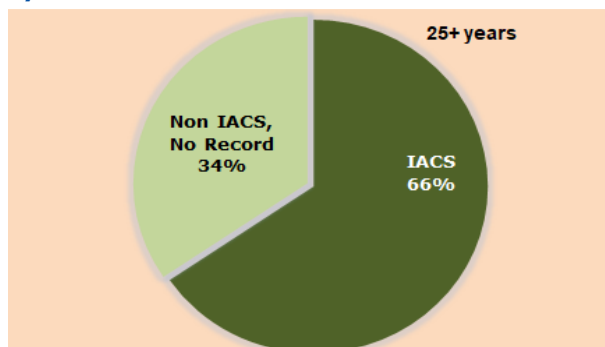
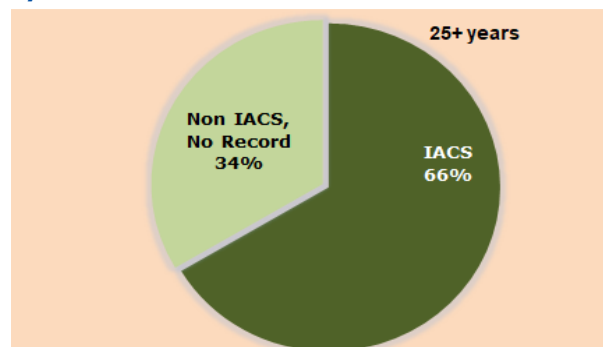
Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	12	4.0%	14	8.9%	26	5.7%
Specialized Cargo Ships	30	10.0%	7	4.4%	37	8.1%
Container Ships	29	9.7%	16	10.1%	45	9.8%
Ro-Ro Cargo Ships	33	11.0%	6	3.8%	39	8.5%
Bulk Carriers	69	23.0%	41	25.9%	110	24.0%
Oil and Chemical Tankers	28	9.3%	26	16.5%	54	11.8%
Gas Tankers	27	9.0%	3	1.9%	30	6.6%
Other Tankers						
Passenger Ships	46	15.3%	28	17.7%	74	16.2%
Offshore Vessels	22	7.3%	14	8.9%	36	7.9%
Service Ships	4	1.3%	3	1.9%	7	1.5%
Tugs						
<b>Total</b>	<b>300</b>	<b>100%</b>	<b>158</b>	<b>100%</b>	<b>458</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 25.000≤GT<60.000 - IACS membership on 31/12/2016

**Table 60 - Gross tonnage (in 1000 gt) of 25+ years old large<sup>(1)</sup> ships, by type and class**

Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships	352	3.1%	391	6.9%	743	4.4%
Specialized Cargo Ships	1,071	9.6%	259	4.6%	1,330	7.9%
Container Ships	993	8.9%	673	11.9%	1,666	9.9%
Ro-Ro Cargo Ships	1,349	12.0%	255	4.5%	1,604	9.5%
Bulk Carriers	2,639	23.6%	1,325	23.5%	3,964	23.5%
Oil and Chemical Tankers	939	8.4%	864	15.3%	1,803	10.7%
Gas Tankers	1,189	10.6%	123	2.2%	1,312	7.8%
Other Tankers						
Passenger Ships	1,591	14.2%	1,028	18.2%	2,619	15.5%
Offshore Vessels	934	8.3%	623	11.0%	1,557	9.2%
Service Ships	140	1.3%	105	1.9%	245	1.5%
Tugs						
<b>Total</b>	<b>11,197</b>	<b>100%</b>	<b>5,646</b>	<b>100%</b>	<b>16,843</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 25.000≤GT<60.000 - IACS membership on 31/12/2016

**Graph 58 - Total number of 25+ years old large ships, by class****Graph 59 - Gross tonnage of 25+ years old large ships, by class**

## 25+ YEARS OLD VERY LARGE SHIPS

**Table 61 - Total number of 25+ years old very large<sup>(1)</sup> ships, by type and class**

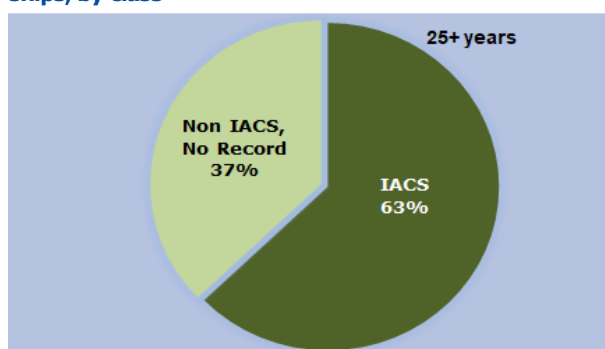
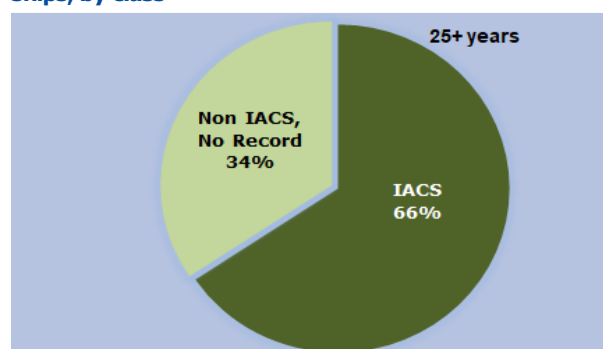
Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships						
Specialized Cargo Ships						
Container Ships						
Ro-Ro Cargo Ships						
Bulk Carriers	12	16.9%	8	19.0%	20	17.7%
Oil and Chemical Tankers	3	4.2%	3	7.1%	6	5.3%
Gas Tankers	12	16.9%	4	9.5%	16	14.2%
Other Tankers						
Passenger Ships	5	7.0%	3	7.1%	8	7.1%
Offshore Vessels	38	53.5%	22	52.4%	60	53.1%
Service Ships	1	1.4%	2	4.8%	3	2.7%
Tugs						
<b>Total</b>	<b>71</b>	<b>100%</b>	<b>42</b>	<b>100%</b>	<b>113</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 25.000≤GT<60.000 - IACS membership on 31/12/2016

**Table 62 - Gross tonnage (in 1000 gt) of 25+ years old very large<sup>(1)</sup> ships, by type and class**

Ship Type	IACS		Non IACS/No Record		Total	
	Count	%	Count	%	Count	%
General Cargo Ships						
Specialized Cargo Ships						
Container Ships						
Ro-Ro Cargo Ships						
Bulk Carriers	1,717	20.9%	962	22.4%	2,679	21.4%
Oil and Chemical Tankers	220	2.7%	228	5.3%	448	3.6%
Gas Tankers	1,174	14.3%	353	8.2%	1,527	12.2%
Other Tankers						
Passenger Ships	345	4.2%	222	5.2%	567	4.5%
Offshore Vessels	4,694	57.1%	2,405	55.9%	7,099	56.7%
Service Ships	64	0.8%	131	3.0%	195	1.6%
Tugs						
<b>Total</b>	<b>8,214</b>	<b>100%</b>	<b>4,301</b>	<b>100%</b>	<b>12,515</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 25.000≤GT<60.000 - IACS membership on 31/12/2016

**Graph 60 - Total number of 25+ years old very large ships, by class****Graph 61 - Gross tonnage of 25+ years old very large ships, by class**

## 3.3. CLASS STATUS AND FLAG

## WORLD FLEET GT≥500

Table 63 - World fleet GT≥500: total number of ships by type, class and flag

Ship Type	Targeted flag					Non Targeted flag				
	IACS		Non IACS/No Record		Total	IACS		Non IACS/No Record		Total
General Cargo Ships	1,853	19.0%	3,625	44.8%	5,478	2,949	12.2%	3,632	25.3%	6,581
Specialized Cargo Ships	37	0.4%	72	0.9%	109	143	0.6%	41	0.3%	184
Container Ships	695	7.1%	668	8.3%	1,363	2,206	9.1%	1,520	10.6%	3,726
Ro-Ro Cargo Ships	314	3.2%	152	1.9%	466	670	2.8%	320	2.2%	990
Bulk Carriers	3,292	33.7%	550	6.8%	3,842	6,028	24.9%	1,435	10.0%	7,463
Oil and Chemical Tankers	1,724	17.7%	1,326	16.4%	3,050	5,805	23.9%	2,465	17.2%	8,270
Gas Tankers	348	3.6%	153	1.9%	501	1,057	4.4%	325	2.3%	1,382
Other Tankers	86	0.9%	93	1.1%	179	273	1.1%	162	1.1%	435
Passenger Ships	231	2.4%	577	7.1%	808	949	3.9%	1,360	9.5%	2,309
Offshore Vessels	953	9.8%	448	5.5%	1,401	2,695	11.1%	1,627	11.3%	4,322
Service Ships	156	1.6%	367	4.5%	523	926	3.8%	1,137	7.9%	2,063
Tugs	72	0.7%	58	0.7%	130	555	2.3%	318	2.2%	873
<b>Total</b>	<b>9,761</b>	<b>100%</b>	<b>8,089</b>	<b>100%</b>	<b>17,850</b>	<b>24,256</b>	<b>100%</b>	<b>14,342</b>	<b>100%</b>	<b>38,598</b>

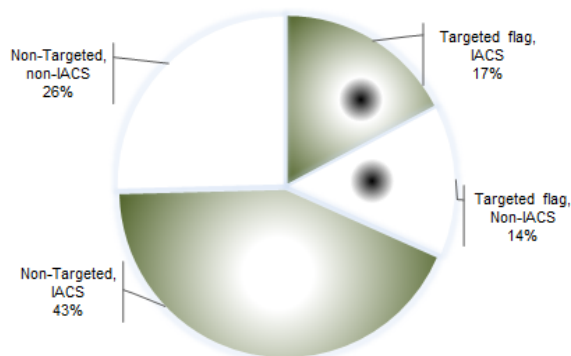
Source: Equasis - <sup>(1)</sup> 25.000≤GT<60.000 - IACS membership on 31/12/2016

Table 64 - World fleet GT≥500: gross tonnage (in 1000 gt) of ships by type, class and flag

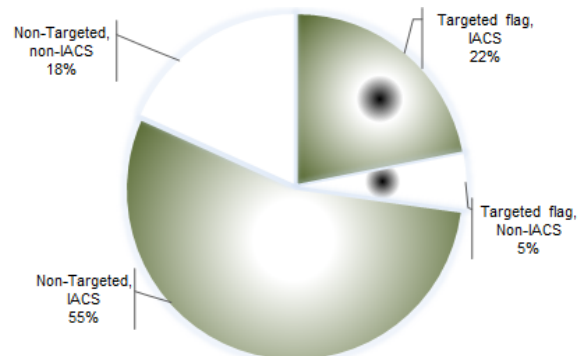
Ship Type	Targeted flag					Non Targeted flag				
	IACS		Non IACS/No Record		Total	IACS		Non IACS/No Record		Total
General Cargo Ships	11,786	4.3%	10,653	16.1%	22,439	20,124	2.9%	14,873	6.4%	34,997
Specialized Cargo Ships	696	0.3%	330	0.5%	1,026	2,880	0.4%	626	0.3%	3,506
Container Ships	24,257	8.8%	20,253	30.7%	44,510	110,383	16.1%	66,230	28.6%	176,613
Ro-Ro Cargo Ships	13,808	5.0%	1,712	2.6%	15,520	23,809	3.5%	9,937	4.3%	33,746
Bulk Carriers	135,635	49.0%	9,322	14.1%	144,957	252,903	36.8%	41,634	18.0%	294,537
Oil and Chemical Tankers	65,221	23.6%	17,041	25.8%	82,262	190,653	27.7%	55,861	24.2%	246,514
Gas Tankers	11,969	4.3%	1,595	2.4%	13,564	42,724	6.2%	11,375	4.9%	54,099
Other Tankers	319	0.1%	159	0.2%	478	1,161	0.2%	307	0.1%	1,468
Passenger Ships	5,064	1.8%	1,634	2.5%	6,698	18,849	2.7%	12,727	5.5%	31,576
Offshore Vessels	7,087	2.6%	2,054	3.1%	9,141	18,510	2.7%	14,247	6.2%	32,757
Service Ships	722	0.3%	1,163	1.8%	1,885	5,117	0.7%	3,062	1.3%	8,179
Tugs	61	0.0%	56	0.1%	117	575	0.1%	296	0.1%	871
<b>Total</b>	<b>276,625</b>	<b>100%</b>	<b>65,972</b>	<b>100%</b>	<b>342,597</b>	<b>687,688</b>	<b>100%</b>	<b>231,175</b>	<b>100%</b>	<b>918,863</b>

Source: Equasis - <sup>(1)</sup> 25.000≤GT<60.000 - IACS membership on 31/12/2016

Graph 62 - Total number of ships GT≥500, by class and flag



Graph 63 - Gross tonnage of ships GT≥500, by class and flag





## MEDIUM SIZED SHIPS

**Table 65 - Total number of medium sized<sup>(1)</sup> ships by type, class and flag**

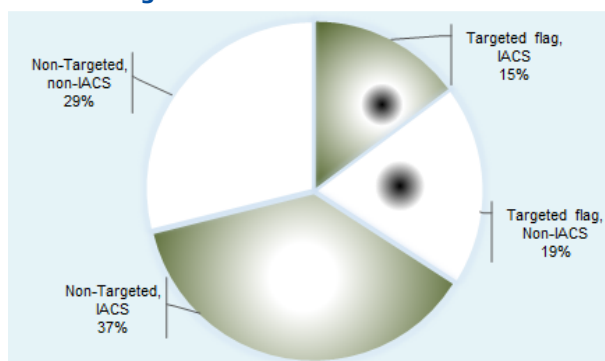
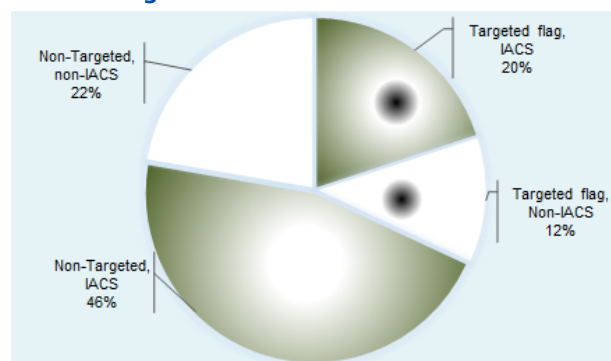
Ship Type	Targeted flag			Non Targeted flag						
	IACS	Non IACS/No Record	Total	IACS	Non IACS/No Record	Total				
General Cargo Ships	1,824	31.5%	3,622	48.3%	5,446	2,876	19.9%	3,508	31.2%	6,384
Specialized Cargo Ships	24	0.4%	70	0.9%	94	99	0.7%	32	0.3%	131
Container Ships	406	7.0%	421	5.6%	827	828	5.7%	598	5.3%	1,426
Ro-Ro Cargo Ships	72	1.2%	123	1.6%	195	276	1.9%	170	1.5%	446
Bulk Carriers	963	16.6%	435	5.8%	1,398	1,631	11.3%	763	6.8%	2,394
Oil and Chemical Tankers	930	16.0%	1,160	15.5%	2,090	3,192	22.0%	1,630	14.5%	4,822
Gas Tankers	200	3.5%	141	1.9%	341	608	4.2%	177	1.6%	785
Other Tankers	84	1.4%	93	1.2%	177	267	1.8%	161	1.4%	428
Passenger Ships	173	3.0%	574	7.7%	747	680	4.7%	1,247	11.1%	1,927
Offshore Vessels	894	15.4%	433	5.8%	1,327	2,560	17.7%	1,515	13.5%	4,075
Service Ships	153	2.6%	362	4.8%	515	907	6.3%	1,132	10.1%	2,039
Tugs	72	1.2%	58	0.8%	130	555	3.8%	318	2.8%	873
<b>Total</b>	<b>5,795</b>	<b>100%</b>	<b>7,492</b>	<b>100%</b>	<b>13,287</b>	<b>14,479</b>	<b>100%</b>	<b>11,251</b>	<b>100%</b>	<b>25,730</b>

Source: Equasis - <sup>(1)</sup> 500≤GT<25.000 - IACS membership on 31/12/2016

**Table 66 - Gross tonnage (in 1000 gt) of medium sized<sup>(1)</sup> ships by type, class and flag**

Ship Type	Targeted flag			Non Targeted flag						
	IACS	Non IACS/No Record	Total	IACS	Non IACS/No Record	Total				
General Cargo Ships	10,833	24.0%	10,544	39.2%	21,377	17,840	17.2%	10,728	21.3%	28,568
Specialized Cargo Ships	235	0.5%	259	1.0%	494	1,048	1.0%	286	0.6%	1,334
Container Ships	4,842	10.7%	4,037	15.0%	8,879	10,350	10.0%	7,151	14.2%	17,501
Ro-Ro Cargo Ships	770	1.7%	649	2.4%	1,419	3,378	3.3%	1,495	3.0%	4,873
Bulk Carriers	15,781	34.9%	3,692	13.7%	19,473	28,228	27.3%	8,457	16.8%	36,685
Oil and Chemical Tankers	6,845	15.1%	3,762	14.0%	10,607	22,452	21.7%	8,848	17.5%	31,300
Gas Tankers	1,572	3.5%	444	1.6%	2,016	3,843	3.7%	1,207	2.4%	5,050
Other Tankers	263	0.6%	159	0.6%	422	978	0.9%	274	0.5%	1,252
Passenger Ships	1,257	2.8%	1,542	5.7%	2,799	4,283	4.1%	4,047	8.0%	8,330
Offshore Vessels	2,099	4.6%	926	3.4%	3,025	6,573	6.4%	4,847	9.6%	11,420
Service Ships	625	1.4%	847	3.1%	1,472	3,944	3.8%	2,820	5.6%	6,764
Tugs	61	0.1%	56	0.2%	117	575	0.6%	296	0.6%	871
<b>Total</b>	<b>45,183</b>	<b>100%</b>	<b>26,917</b>	<b>100%</b>	<b>72,100</b>	<b>103,492</b>	<b>100%</b>	<b>50,456</b>	<b>100%</b>	<b>153,948</b>

Source: Equasis - <sup>(1)</sup> 500≤GT<25.000 - IACS membership on 31/12/2016

**Graph 64 - Total number of medium sized ships, by class and flag****Graph 65 - Gross tonnage of medium sized ships, by class and flag**

## LARGE SHIPS

**Table 67 - Total number of large<sup>(1)</sup> ships by type, class and flag**

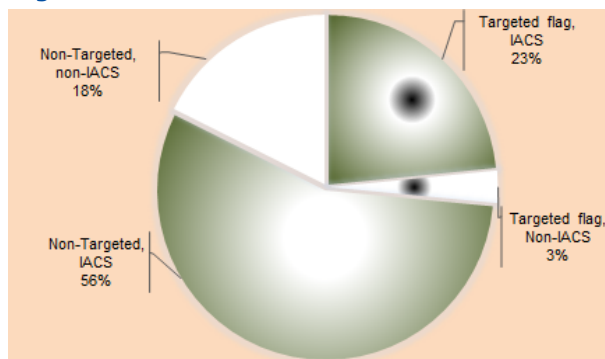
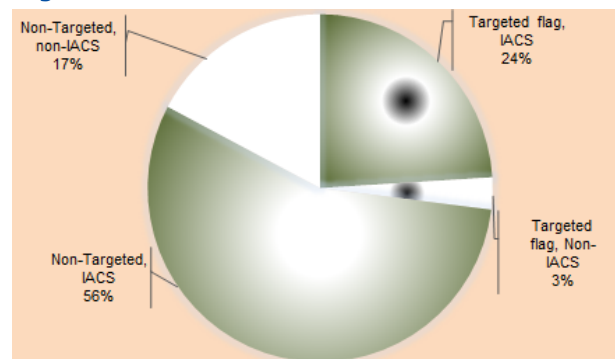
Ship Type	Targeted flag			Non Targeted flag						
	IACS	Non IACS/No Record	Total	IACS	Non IACS/No Record	Total				
General Cargo Ships	29	1.1%	3	0.8%	32	73	1.1%	124	6.0%	197
Specialized Cargo Ships	13	0.5%	2	0.6%	15	40	0.6%	9	0.4%	49
Container Ships	140	5.1%	153	42.9%	293	645	9.9%	569	27.7%	1,214
Ro-Ro Cargo Ships	181	6.7%	28	7.8%	209	282	4.3%	101	4.9%	383
Bulk Carriers	1,761	64.7%	91	25.5%	1,852	3,428	52.9%	550	26.8%	3,978
Oil and Chemical Tankers	451	16.6%	64	17.9%	515	1,601	24.7%	513	25.0%	2,114
Gas Tankers	87	3.2%	1	0.3%	88	158	2.4%	91	4.4%	249
Other Tankers	2	0.1%			2	6	0.1%	1	0.0%	7
Passenger Ships	29	1.1%	3	0.8%	32	186	2.9%	54	2.6%	240
Offshore Vessels	25	0.9%	8	2.2%	33	50	0.8%	37	1.8%	87
Service Ships	3	0.1%	4	1.1%	7	16	0.2%	3	0.1%	19
Tugs										
<b>Total</b>	<b>2,721</b>	<b>100%</b>	<b>357</b>	<b>100%</b>	<b>3,078</b>	<b>6,485</b>	<b>100%</b>	<b>2,052</b>	<b>100%</b>	<b>8,537</b>

Source: Equasis - <sup>(1)</sup> 25.000≤GT<60.000 - IACS membership on 31/12/2016

**Table 68 - Gross tonnage (in 1000 gt) of large<sup>(1)</sup> ships by type, class and flag**

Ship Type	Targeted flag			Non Targeted flag						
	IACS	Non IACS/No Record	Total	IACS	Non IACS/No Record	Total				
General Cargo Ships	953	0.9%	109	0.8%	1,062	2,284	0.9%	4,145	5.5%	6,429
Specialized Cargo Ships	461	0.4%	71	0.5%	532	1,528	0.6%	340	0.5%	1,868
Container Ships	5,541	5.3%	5,437	41.8%	10,978	25,372	10.4%	21,333	28.2%	46,705
Ro-Ro Cargo Ships	9,104	8.7%	991	7.6%	10,095	12,871	5.3%	5,078	6.7%	17,949
Bulk Carriers	65,775	62.5%	3,314	25.5%	69,089	127,910	52.3%	19,108	25.3%	147,018
Oil and Chemical Tankers	17,354	16.5%	2,408	18.5%	19,762	57,651	23.6%	17,872	23.7%	75,523
Gas Tankers	3,897	3.7%	47	0.4%	3,944	6,835	2.8%	3,867	5.1%	10,702
Other Tankers	56	0.1%			56	183	0.1%	33	0.0%	216
Passenger Ships	880	0.8%	92	0.7%	972	6,823	2.8%	1,939	2.6%	8,762
Offshore Vessels	1,077	1.0%	379	2.9%	1,456	2,364	1.0%	1,717	2.3%	4,081
Service Ships	97	0.1%	161	1.2%	258	558	0.2%	111	0.1%	669
Tugs										
<b>Total</b>	<b>105,195</b>	<b>100%</b>	<b>13,009</b>	<b>100%</b>	<b>118,204</b>	<b>244,379</b>	<b>100%</b>	<b>75,543</b>	<b>100%</b>	<b>319,922</b>

Source: Equasis - <sup>(1)</sup> 25.000≤GT<60.000 - IACS membership on 31/12/2016

**Graph 66 - Total number of large ships, by class and flag****Graph 67 - Gross tonnage of large ships, by class and flag**

## VERY LARGE SHIPS

**Table 69 - Total number of very large<sup>(1)</sup> ships by type, class and flag**

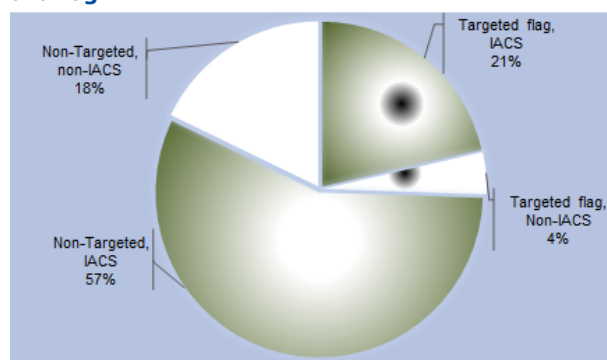
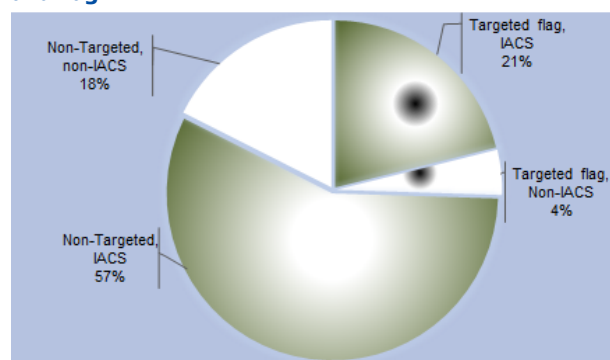
Ship Type	Targeted flag			Non Targeted flag						
	IACS		Non IACS/No Record	IACS		Non IACS/No Record	Total			
General Cargo Ships										
Specialized Cargo Ships				4	0.1%		4			
Container Ships	149	12.0%	94	39.2%	243	733	22.3%	353	34.0%	1,086
Ro-Ro Cargo Ships	61	4.9%	1	0.4%	62	112	3.4%	49	4.7%	161
Bulk Carriers	568	45.6%	24	10.0%	592	969	29.4%	122	11.7%	1,091
Oil and Chemical Tankers	343	27.6%	102	42.5%	445	1,012	30.7%	322	31.0%	1,334
Gas Tankers	61	4.9%	11	4.6%	72	291	8.8%	57	5.5%	348
Other Tankers										
Passenger Ships	29	2.3%			29	83	2.5%	59	5.7%	142
Offshore Vessels	34	2.7%	7	2.9%	41	85	2.6%	75	7.2%	160
Service Ships			1	0.4%	1	3	0.1%	2	0.2%	5
Tugs										
<b>Total</b>	<b>1,245</b>	<b>100%</b>	<b>240</b>	<b>100%</b>	<b>1,485</b>	<b>3,292</b>	<b>100%</b>	<b>1,039</b>	<b>100%</b>	<b>4,331</b>

Source: Equasis - <sup>(1)</sup> GT≥60,000 - IACS membership on 31/12/2016

**Table 70 - Gross tonnage (in 1000 gt) of very large<sup>(1)</sup> ships by type, class and flag**

Ship Type	Targeted flag			Non Targeted flag						
	IACS		Non IACS/No Record	IACS		Non IACS/No Record	Total			
General Cargo Ships										
Specialized Cargo Ships				304	0.1%		304			
Container Ships	13,874	11.0%	10,779	41.4%	24,653	74,661	22.0%	37,746	35.9%	112,407
Ro-Ro Cargo Ships	3,934	3.1%	72	0.3%	4,006	7,560	2.2%	3,364	3.2%	10,924
Bulk Carriers	54,079	42.8%	2,316	8.9%	56,395	96,765	28.5%	14,069	13.4%	110,834
Oil and Chemical Tankers	41,022	32.5%	10,871	41.7%	51,893	110,550	32.5%	29,141	27.7%	139,691
Gas Tankers	6,500	5.1%	1,104	4.2%	7,604	32,046	9.4%	6,301	6.0%	38,347
Other Tankers										
Passenger Ships	2,927	2.3%			2,927	7,743	2.3%	6,741	6.4%	14,484
Offshore Vessels	3,911	3.1%	749	2.9%	4,660	9,573	2.8%	7,683	7.3%	17,256
Service Ships			155	0.6%	155	615	0.2%	131	0.1%	746
Tugs										
<b>Total</b>	<b>126,247</b>	<b>100%</b>	<b>26,046</b>	<b>100%</b>	<b>152,293</b>	<b>339,817</b>	<b>100%</b>	<b>105,176</b>	<b>100%</b>	<b>444,993</b>

Source: Equasis - <sup>(1)</sup> GT≥60,000 - IACS membership on 31/12/2016

**Graph 68 - Total number of very large ships, by class and flag****Graph 69 - Gross tonnage of very large ships, by class and flag**

### 3.4. SAFETY PERFORMANCE

#### WORLD FLEET GT≥500

**Table 71 - World fleet GT≥500 detention rates<sup>(\*)</sup>, by type and class - 2016**

Ship Type	IACS	Non IACS/No Record	Overall
General Cargo Ships	3.11%	6.79%	4.72%
Specialized Cargo Ships	2.39%	5.77%	3.68%
Container Ships	1.15%	1.43%	1.27%
Ro-Ro Cargo Ships	1.30%	2.91%	1.69%
Bulk Carriers	1.96%	2.97%	2.07%
Oil and Chemical Tankers	1.36%	2.38%	1.57%
Gas Tankers	1.61%	1.02%	1.49%
Other Tankers	2.81%	11.11%	3.90%
Passenger Ships	1.61%	2.22%	1.76%
Offshore Vessels	5.32%	2.70%	4.07%
Service Ships	1.98%	3.85%	2.82%
Tugs	0.00%	2.50%	0.88%
<b>Total</b>	<b>1.97%</b>	<b>4.05%</b>	<b>2.52%</b>

**Source:** Equasis - IACS membership on 31/12/2016 - <sup>(\*)</sup> Detentions in Paris MoU, Tokyo MoU, IO MoU, USCG, VDM, Med MoU, Caribbean MoU divided by total number of inspections

#### MEDIUM SIZED SHIPS

**Table 72 - Medium sized<sup>(1)</sup> ships detention rates<sup>(\*)</sup>, by type and class - 2016**

Ship Type	IACS	Non IACS/No Record	Overall
General Cargo Ships	3.18%	7.14%	4.89%
Specialized Cargo Ships	2.10%	5.70%	3.71%
Container Ships	1.48%	1.91%	1.64%
Ro-Ro Cargo Ships	3.20%	7.55%	5.07%
Bulk Carriers	2.02%	4.17%	2.39%
Oil and Chemical Tankers	1.72%	4.58%	2.20%
Gas Tankers	1.89%	1.53%	1.82%
Other Tankers	2.91%	11.76%	4.05%
Passenger Ships	2.91%	4.17%	3.21%
Offshore Vessels	5.74%	2.81%	4.31%
Service Ships	2.01%	3.94%	2.88%
Tugs	0.00%	2.50%	0.88%
<b>Total</b>	<b>2.45%</b>	<b>5.65%</b>	<b>3.48%</b>

**Source:** Equasis - IACS membership on 31/12/2016 - <sup>(\*)</sup> Detentions in Paris MoU, Tokyo MoU, IO MoU, USCG, VDM, Med MoU, Caribbean MoU divided by total number of inspections

## LARGE SHIPS

**Table 73 - Large<sup>(1)</sup> ships detention rates<sup>(\*)</sup>, by type and class - 2016**

Ship Type	IACS	Non IACS/No Record	Overall
General Cargo Ships	0.70%	0.49%	0.57%
Specialized Cargo Ships	3.13%	6.67%	3.60%
Container Ships	1.24%	1.65%	1.45%
Ro-Ro Cargo Ships	1.28%	0.65%	1.16%
Bulk Carriers	1.77%	1.58%	1.75%
Oil and Chemical Tankers	1.10%	1.14%	1.11%
Gas Tankers	1.24%	0.71%	1.08%
Other Tankers	0.00%	0.00%	0.00%
Passenger Ships	1.13%	2.50%	1.42%
Offshore Vessels	0.00%	0.00%	0.00%
Service Ships	0.00%	0.00%	0.00%
Tugs			
<b>Total</b>	<b>1.55%</b>	<b>1.36%</b>	<b>1.51%</b>

Source: Equasis - IACS membership on 31/12/2016 - (\*) Detentions in Paris MoU, Tokyo MoU, IO MoU, USCG, VDM, Med MoU and Caribbean MoU divided by total number of inspections

## VERY LARGE SHIPS

**Table 74 - Very large<sup>(1)</sup> ships detention rates<sup>(\*)</sup>, by type and class - 2016**

Ship Type	IACS	Non IACS/No Record	Overall
General Cargo Ships			
Specialized Cargo Ships	0.00%		0.00%
Container Ships	0.71%	0.52%	0.64%
Ro-Ro Cargo Ships	0.36%	1.20%	0.56%
Bulk Carriers	2.69%	1.30%	2.59%
Oil and Chemical Tankers	0.90%	0.97%	0.92%
Gas Tankers	1.14%	0.00%	0.93%
Other Tankers			
Passenger Ships	0.27%	0.00%	0.19%
Offshore Vessels	0.00%	0.00%	0.00%
Service Ships	0.00%	0.00%	0.00%
Tugs			
<b>Total</b>	<b>1.46%</b>	<b>0.70%</b>	<b>1.29%</b>

Source: Equasis - IACS membership on 31/12/2016 - (\*) Detentions in Paris MoU, Tokyo MoU, IO MoU, USCG, VDM, Med MoU, Caribbean MoU divided by total number of inspections

## Chapter 4

# 4. P&I

### INTRODUCTION

Protection and Indemnity (P&I) Clubs provide third-party insurance cover to ship owners. Members of the International Group of P&I Clubs (IGP&I) and some non-IG P&I clubs provide to Equasis information on all of the vessels with IMO numbers insured by them.

There are thirteen separate and independent principal Clubs in the IGP&I. Some of the Clubs have affiliated and reinsured subsidiary associations:

- *American Steamship Owners Mutual Protection and Indemnity Association, Inc*
- *Assuranceforeningen Skuld*
- *Gard P&I (Bermuda) Ltd.*<sup>1</sup>
- *The Britannia Steam Ship Insurance Association Limited*
- *The Japan Ship Owners' Mutual Protection & Indemnity Association*
- *The London Steam-Ship Owners' Mutual Insurance Association Limited*
- *The North of England Protecting & Indemnity Association Limited*
- *The Shipowners' Mutual Protection & Indemnity Association (Luxembourg)*
- *The Standard Club Ltd*<sup>2</sup>
- *The Steamship Mutual Underwriting Association (Bermuda) Limited*
- *The Swedish Club*

- *United Kingdom Mutual Steam Ship Assurance Association (Bermuda) Limited*
- *The West of England Ship Owners Mutual Insurance Association (Luxembourg)*

It should be noted that there is a significant number of small ships of less than 100GT entered in the IGP&I data but as explained in Chapter 1, small ships are not included in the statistics which follow.

The following tables show the proportion of the fleet, in each ship size and ship type, which is registered with the clubs in the IGP&I (column headed IGP&I), compared to the proportion of ships (column headed Non IGP&I) which are either:

- insured with a club which is not a member of the IGP&I,
- covered by commercial insurance for which information is not available,
- not covered by P&I insurance.

In Chapter 4.4 the fleet is analysed according to P&I and flag State status. Flag States are grouped in two categories, targeted and non-targeted, as explained in Chapter 1.

In Chapter 4.5 the detention rate of ships is the ratio between the number of detentions and the number of inspections in the Paris MoU, Tokyo MoU, Indian Ocean MoU (IO MoU), USCG, Viña del Mar MoU, Mediterranean MoU and Caribbean MoU.

### RESULTS

Graph 70 indicates that for vessels over 500GT in Equasis, for which data has been supplied, 63% are covered by one of the

<sup>1</sup> Gard (Bermuda) Ltd only became a principal Association with effect from the 2011 policy year. Previously, the principal Association was Assuranceforeningen Gard.

<sup>2</sup> Since July 2012, "the Standard Steamship Owners Protection & Indemnity Association (Bermuda) Ltd" has changed its name to "The Standard Club Limited"

members of the IGP&I. This rises to 92% by tonnage.

Graphs 74 to 77 show that 95% of the large and 98% of the very large ship size categories are covered by the members of the IGP&I. Within the medium sized ship category just under a half (48%) are covered by number, which equates to 71% in tonnage.

Comparing Graph 78 with Graph 86 reveals that the age profile of ships covered by the members of the IGP&I is considerably younger than those which are not. Graph 78 shows that 20% of the IGP&I fleet is under 5 years old and only 9% is over 25 years old. Of the younger fleet, 0-4 years of age, the majority of ships insured by IGP&I are bulk carriers (38.4%). This trend is more marked in the large ship size category of the younger fleet (62.7%).

For non-IGP&I members the trend is reversed, with only 9% of the fleet under 5 years old being insured by non-IGP&I members in comparison to 52% of the fleet over 25 years old. Table 91 shows that 41.6% of the older fleet insured by non-IGP&I members are general cargo ships.

Table 107 shows that ships insured by companies outside the IGP&I had a higher detention rate in 2016 compared to the one of those that are members (6.77% compared with 1.63%, respectively).

## 4.1. P&amp;I STATUS

## WORLD FLEET GT≥500

**Table 75 - P&I world fleet GT≥500 status : total number of ships, by type**

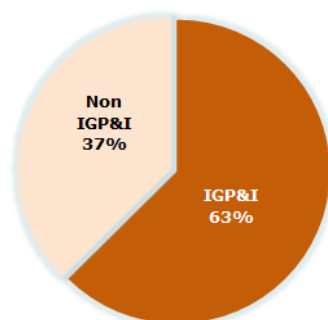
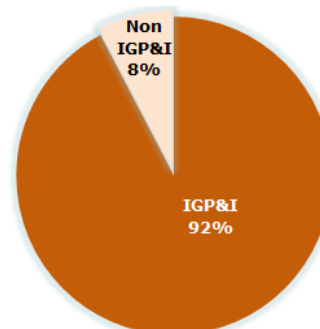
Ship Type	IGP&I		Non IGP&I		Total	
General Cargo Ships	4,002	11.3%	8,057	38.1%	12,059	21.4%
Specialized Cargo Ships	169	0.5%	124	0.6%	293	0.5%
Container Ships	4,462	12.6%	627	3.0%	5,089	9.0%
Ro-Ro Cargo Ships	1,052	3.0%	404	1.9%	1,456	2.6%
Bulk Carriers	9,509	26.9%	1,796	8.5%	11,305	20.0%
Oil and Chemical Tankers	8,324	23.6%	2,996	14.2%	11,320	20.1%
Gas Tankers	1,508	4.3%	375	1.8%	1,883	3.3%
Other Tankers	302	0.9%	312	1.5%	614	1.1%
Passenger Ships	1,215	3.4%	1,902	9.0%	3,117	5.5%
Offshore Vessels	3,523	10.0%	2,200	10.4%	5,723	10.1%
Service Ships	775	2.2%	1,811	8.6%	2,586	4.6%
Tugs	451	1.3%	552	2.6%	1,003	1.8%
<b>Total</b>	<b>35,292</b>	<b>100%</b>	<b>21,156</b>	<b>100%</b>	<b>56,448</b>	<b>100%</b>

Source: Equasis

**Table 76 - P&I world fleet GT≥500 status : gross tonnage (in 1000 gt) of ships, by type**

Ship Type	IGP&I		Non IGP&I		Total	
General Cargo Ships	34,128	2.9%	23,307	23.9%	57,435	4.6%
Specialized Cargo Ships	3,826	0.3%	707	0.7%	4,533	0.4%
Container Ships	213,465	18.3%	7,659	7.9%	221,124	17.5%
Ro-Ro Cargo Ships	45,098	3.9%	4,167	4.3%	49,265	3.9%
Bulk Carriers	412,700	35.5%	26,795	27.5%	439,495	34.8%
Oil and Chemical Tankers	317,263	27.3%	11,515	11.8%	328,778	26.1%
Gas Tankers	66,678	5.7%	984	1.0%	67,662	5.4%
Other Tankers	1,539	0.1%	407	0.4%	1,946	0.2%
Passenger Ships	31,688	2.7%	6,587	6.8%	38,275	3.0%
Offshore Vessels	31,893	2.7%	10,004	10.3%	41,897	3.3%
Service Ships	5,354	0.5%	4,709	4.8%	10,063	0.8%
Tugs	492	0.0%	495	0.5%	987	0.1%
<b>Total</b>	<b>1,164,124</b>	<b>100%</b>	<b>97,336</b>	<b>100%</b>	<b>1,261,460</b>	<b>100%</b>

Source: Equasis

**Graph 70 - Number of ships GT≥500, by P&I status****Graph 71 - Gross tonnage of ships GT≥500, by P&I status**



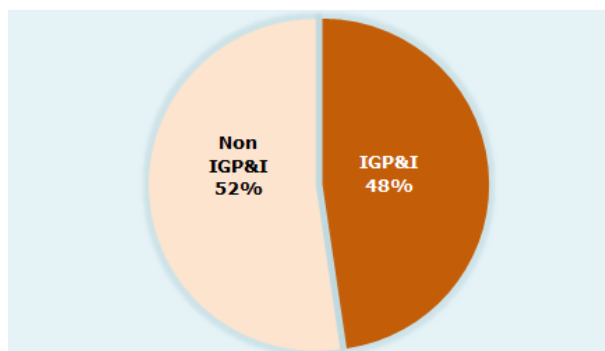
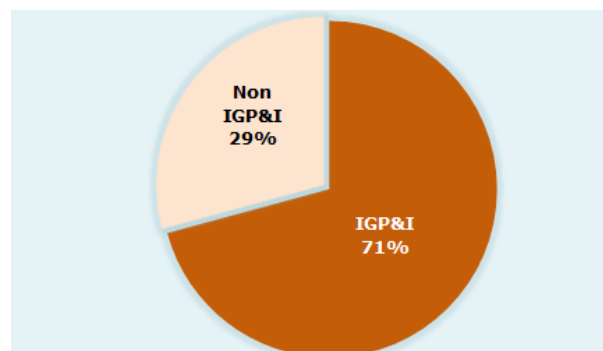
## MEDIUM SIZED SHIPS

**Table 77 - P&I status : total number of medium sized<sup>(1)</sup> ships, by type**

Ship Type	IGP&I		Non IGP&I		Total	
General Cargo Ships	3,781	20.3%	8,049	39.4%	11,830	30.3%
Specialized Cargo Ships	102	0.5%	123	0.6%	225	0.6%
Container Ships	1,699	9.1%	554	2.7%	2,253	5.8%
Ro-Ro Cargo Ships	274	1.5%	367	1.8%	641	1.6%
Bulk Carriers	2,431	13.1%	1,361	6.7%	3,792	9.7%
Oil and Chemical Tankers	3,984	21.4%	2,928	14.3%	6,912	17.7%
Gas Tankers	756	4.1%	370	1.8%	1,126	2.9%
Other Tankers	293	1.6%	312	1.5%	605	1.6%
Passenger Ships	785	4.2%	1,889	9.3%	2,674	6.9%
Offshore Vessels	3,294	17.7%	2,108	10.3%	5,402	13.8%
Service Ships	748	4.0%	1,806	8.8%	2,554	6.5%
Tugs	451	2.4%	552	2.7%	1,003	2.6%
<b>Total</b>	<b>18,598</b>	<b>100%</b>	<b>20,419</b>	<b>100%</b>	<b>39,017</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 500≤GT<25.000**Table 78 - P&I status : gross tonnage (in 1000 gt) of medium sized<sup>(1)</sup> ships, by type**

Ship Type	IGP&I		Non IGP&I		Total	
General Cargo Ships	26,869	16.8%	23,075	35.0%	49,944	22.1%
Specialized Cargo Ships	1,188	0.7%	640	1.0%	1,828	0.8%
Container Ships	21,979	13.7%	4,401	6.7%	26,380	11.7%
Ro-Ro Cargo Ships	3,770	2.4%	2,521	3.8%	6,291	2.8%
Bulk Carriers	44,873	28.0%	11,284	17.1%	56,157	24.8%
Oil and Chemical Tankers	33,994	21.2%	7,913	12.0%	41,907	18.5%
Gas Tankers	6,340	4.0%	726	1.1%	7,066	3.1%
Other Tankers	1,267	0.8%	407	0.6%	1,674	0.7%
Passenger Ships	4,930	3.1%	6,198	9.4%	11,128	4.9%
Offshore Vessels	10,594	6.6%	3,850	5.8%	14,444	6.4%
Service Ships	3,741	2.3%	4,495	6.8%	8,236	3.6%
Tugs	492	0.3%	495	0.7%	987	0.4%
<b>Total</b>	<b>160,037</b>	<b>100%</b>	<b>66,005</b>	<b>100%</b>	<b>226,042</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 500≤GT<25.000**Graph 72 - Number of medium sized ships, by P&I status****Graph 73 - Gross tonnage of medium sized ships, by P&I status**

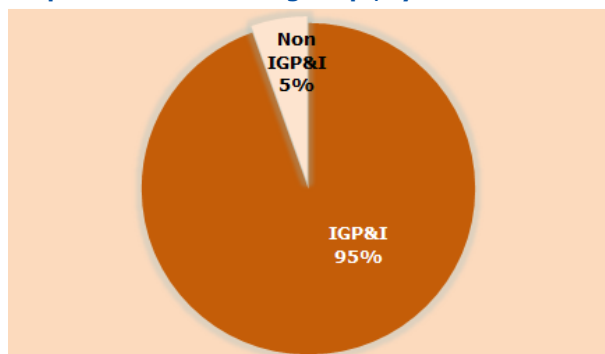
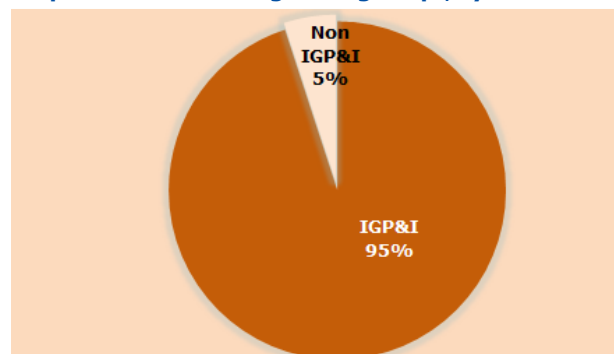
## LARGE SHIPS

**Table 79 - P&I status : total number of large<sup>(1)</sup> ships, by type**

Ship Type	IGP&I		Non IGP&I		Total	
General Cargo Ships	221	2.0%	8	1.3%	229	2.0%
Specialized Cargo Ships	64	0.6%			64	0.6%
Container Ships	1,442	13.1%	65	10.3%	1,507	13.0%
Ro-Ro Cargo Ships	558	5.1%	34	5.4%	592	5.1%
Bulk Carriers	5,415	49.3%	415	65.5%	5,830	50.2%
Oil and Chemical Tankers	2,578	23.5%	51	8.0%	2,629	22.6%
Gas Tankers	333	3.0%	4	0.6%	337	2.9%
Other Tankers	9	0.1%			9	0.1%
Passenger Ships	259	2.4%	13	2.1%	272	2.3%
Offshore Vessels	80	0.7%	40	6.3%	120	1.0%
Service Ships	22	0.2%	4	0.6%	26	0.2%
Tugs						
<b>Total</b>	<b>10,981</b>	<b>100%</b>	<b>634</b>	<b>100%</b>	<b>11,615</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 25.000≤GT<60.000**Table 80 - P&I status : gross tonnage (in 1000 gt) of large<sup>(1)</sup> ships, by type**

Ship Type	IGP&I		Non IGP&I		Total	
General Cargo Ships	7,259	1.7%	232	1.1%	7,491	1.7%
Specialized Cargo Ships	2,401	0.6%			2,401	0.5%
Container Ships	55,199	13.3%	2,485	11.3%	57,684	13.2%
Ro-Ro Cargo Ships	26,605	6.4%	1,439	6.5%	28,044	6.4%
Bulk Carriers	202,523	48.7%	13,585	61.6%	216,108	49.3%
Oil and Chemical Tankers	93,525	22.5%	1,761	8.0%	95,286	21.7%
Gas Tankers	14,466	3.5%	179	0.8%	14,645	3.3%
Other Tankers	272	0.1%			272	0.1%
Passenger Ships	9,346	2.2%	389	1.8%	9,735	2.2%
Offshore Vessels	3,708	0.9%	1,828	8.3%	5,536	1.3%
Service Ships	772	0.2%	154	0.7%	926	0.2%
Tugs						
<b>Total</b>	<b>416,076</b>	<b>100%</b>	<b>22,052</b>	<b>100%</b>	<b>438,128</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 25.000≤GT<60.000**Graph 74 - Number of large ships, by P&I status****Graph 75 - Gross tonnage of large ships, by P&I status**

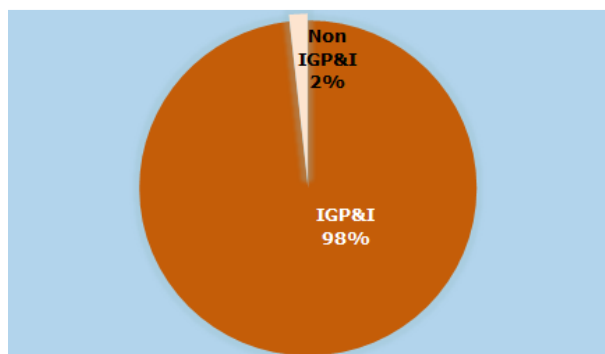
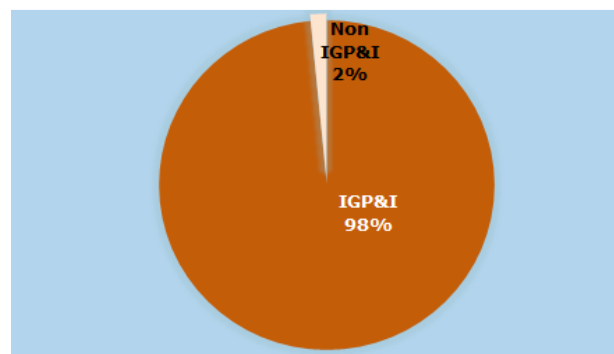
## VERY LARGE SHIPS

**Table 81 - P&I status : total number of very large<sup>(1)</sup> ships, by type**

Ship Type	IGP&I		Non IGP&I		Total	
General Cargo Ships						
Specialized Cargo Ships	3	0.1%	1	1.0%	4	0.1%
Container Ships	1,321	23.1%	8	7.8%	1,329	22.9%
Ro-Ro Cargo Ships	220	3.9%	3	2.9%	223	3.8%
Bulk Carriers	1,663	29.1%	20	19.4%	1,683	28.9%
Oil and Chemical Tankers	1,762	30.8%	17	16.5%	1,779	30.6%
Gas Tankers	419	7.3%	1	1.0%	420	7.2%
Other Tankers						
Passenger Ships	171	3.0%			171	2.9%
Offshore Vessels	149	2.6%	52	50.5%	201	3.5%
Service Ships	5	0.1%	1	1.0%	6	0.1%
Tugs						
<b>Total</b>	<b>5,713</b>	<b>100%</b>	<b>103</b>	<b>100%</b>	<b>5,816</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup>GT≥60,000**Table 82 - P&I status : gross tonnage (in 1000 gt) of very large<sup>(1)</sup> ships, by type**

Ship Type	IGP&I		Non IGP&I		Total	
General Cargo Ships						
Specialized Cargo Ships	237	0.0%	67	0.7%	304	0.1%
Container Ships	136,287	23.2%	773	8.3%	137,060	22.9%
Ro-Ro Cargo Ships	14,723	2.5%	207	2.2%	14,930	2.5%
Bulk Carriers	165,304	28.1%	1,926	20.8%	167,230	28.0%
Oil and Chemical Tankers	189,744	32.3%	1,841	19.8%	191,585	32.1%
Gas Tankers	45,872	7.8%	79	0.9%	45,951	7.7%
Other Tankers						
Passenger Ships	17,412	3.0%			17,412	2.9%
Offshore Vessels	17,591	3.0%	4,326	46.6%	21,917	3.7%
Service Ships	841	0.1%	60	0.6%	901	0.2%
Tugs						
<b>Total</b>	<b>588,011</b>	<b>100%</b>	<b>9,279</b>	<b>100%</b>	<b>597,290</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup>GT≥60,000**Graph 76 - Number of very large ships, by P&I status****Graph 77 - Gross tonnage of very large ships, by P&I status**

## 4.2. IGP&amp;I AND AGE

## WORLD FLEET GT≥500

Table 83 - IGP&amp;I world fleet GT≥500 : total number of ships, by type and age

Ship Type	0-4		5-14		15-24		25+		Total	
General Cargo Ships	394	5.5%	1,918	10.3%	932	14.9%	758	24.1%	4,002	11.3%
Specialized Cargo Ships	36	0.5%	48	0.3%	28	0.4%	57	1.8%	169	0.5%
Container Ships	782	10.9%	2,535	13.5%	1,022	16.4%	123	3.9%	4,462	12.6%
Ro-Ro Cargo Ships	129	1.8%	547	2.9%	263	4.2%	113	3.6%	1,052	3.0%
Bulk Carriers	2,755	38.4%	5,253	28.1%	1,264	20.2%	237	7.5%	9,509	26.9%
Oil and Chemical Tankers	1,366	19.0%	5,059	27.0%	1,469	23.5%	430	13.6%	8,324	23.6%
Gas Tankers	441	6.1%	646	3.5%	295	4.7%	126	4.0%	1,508	4.3%
Other Tankers	92	1.3%	134	0.7%	34	0.5%	42	1.3%	302	0.9%
Passenger Ships	88	1.2%	317	1.7%	380	6.1%	430	13.6%	1,215	3.4%
Offshore Vessels	910	12.7%	1,826	9.8%	358	5.7%	429	13.6%	3,523	10.0%
Service Ships	100	1.4%	205	1.1%	154	2.5%	316	10.0%	775	2.2%
Tugs	86	1.2%	224	1.2%	51	0.8%	90	2.9%	451	1.3%
<b>Total</b>	<b>7,179</b>	<b>100%</b>	<b>18,712</b>	<b>100%</b>	<b>6,250</b>	<b>100%</b>	<b>3,151</b>	<b>100%</b>	<b>35,292</b>	<b>100%</b>

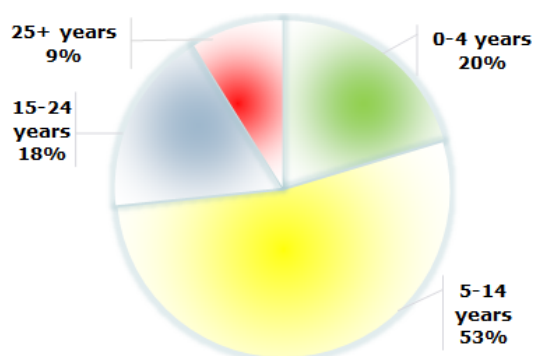
Source: Equasis

Table 84 - IGP&amp;I whole fleet GT≥500: gross tonnage (in 1000 gt) of ships, by type and age

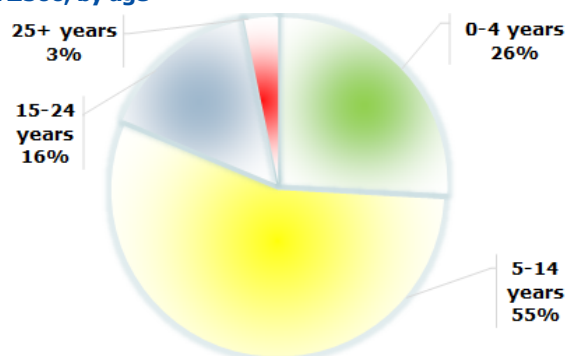
Ship Type	0-4		5-14		15-24		25+		Total	
General Cargo Ships	6,033	2.0%	17,192	2.7%	7,406	4.1%	3,496	9.1%	34,127	2.9%
Specialized Cargo Ships	952	0.3%	791	0.1%	530	0.3%	1,554	4.1%	3,827	0.3%
Container Ships	63,530	21.1%	118,162	18.3%	29,180	16.3%	2,592	6.8%	213,464	18.3%
Ro-Ro Cargo Ships	7,848	2.6%	25,943	4.0%	9,296	5.2%	2,012	5.3%	45,099	3.9%
Bulk Carriers	124,550	41.3%	234,271	36.3%	46,954	26.2%	6,923	18.1%	412,698	35.5%
Oil and Chemical Tankers	63,809	21.2%	192,975	29.9%	57,218	31.9%	3,258	8.5%	317,260	27.3%
Gas Tankers	21,322	7.1%	32,886	5.1%	9,207	5.1%	3,263	8.5%	66,678	5.7%
Other Tankers	608	0.2%	683	0.1%	197	0.1%	51	0.1%	1,539	0.1%
Passenger Ships	4,285	1.4%	11,920	1.8%	10,212	5.7%	5,270	13.8%	31,687	2.7%
Offshore Vessels	7,487	2.5%	8,318	1.3%	7,838	4.4%	8,250	21.6%	31,893	2.7%
Service Ships	913	0.3%	1,530	0.2%	1,416	0.8%	1,494	3.9%	5,353	0.5%
Tugs	108	0.0%	259	0.0%	45	0.0%	81	0.2%	493	0.0%
<b>Total</b>	<b>301,445</b>	<b>100%</b>	<b>644,930</b>	<b>100%</b>	<b>179,499</b>	<b>100%</b>	<b>38,244</b>	<b>100%</b>	<b>1,164,118</b>	<b>100%</b>

Source: Equasis

Graph 78 - IGP&amp;I world fleet GT≥500, by age



Graph 79 - Gross tonnage of IGP&amp;I world fleet GT≥500, by age



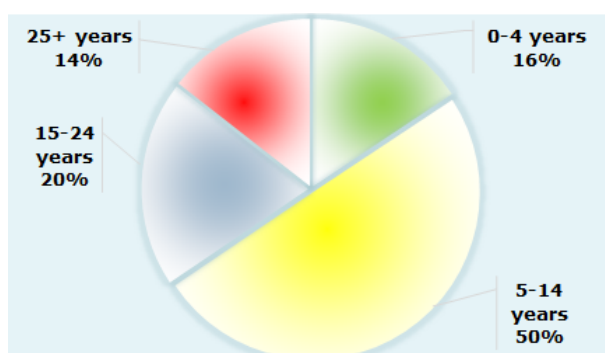
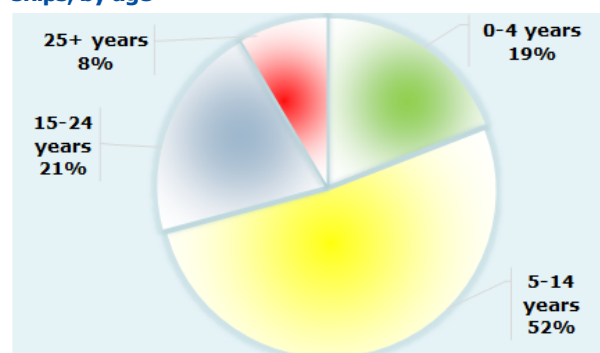
## MEDIUM SIZED SHIPS

**Table 85 - IGP&I : total number of medium sized<sup>(1)</sup> ships, by type and age**

Ship Type	0-4		5-14		15-24		25+		Total	
General Cargo Ships	318	10.9%	1,854	20.0%	876	23.6%	733	27.2%	3,781	20.3%
Specialized Cargo Ships	23	0.8%	40	0.4%	19	0.5%	20	0.7%	102	0.5%
Container Ships	165	5.6%	866	9.3%	587	15.8%	81	3.0%	1,699	9.1%
Ro-Ro Cargo Ships	7	0.2%	72	0.8%	109	2.9%	86	3.2%	274	1.5%
Bulk Carriers	601	20.6%	1,288	13.9%	389	10.5%	153	5.7%	2,431	13.1%
Oil and Chemical Tankers	453	15.5%	2,357	25.4%	783	21.1%	391	14.5%	3,984	21.4%
Gas Tankers	167	5.7%	308	3.3%	199	5.4%	82	3.0%	756	4.1%
Other Tankers	89	3.0%	130	1.4%	32	0.9%	42	1.6%	293	1.6%
Passenger Ships	50	1.7%	162	1.7%	218	5.9%	355	13.2%	785	4.2%
Offshore Vessels	865	29.6%	1,778	19.2%	299	8.1%	352	13.1%	3,294	17.7%
Service Ships	98	3.4%	195	2.1%	148	4.0%	307	11.4%	748	4.0%
Tugs	86	2.9%	224	2.4%	51	1.4%	90	3.3%	451	2.4%
<b>Total</b>	<b>2,922</b>	<b>100%</b>	<b>9,274</b>	<b>100%</b>	<b>3,710</b>	<b>100%</b>	<b>2,692</b>	<b>100%</b>	<b>18,598</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 500≤GT<25.000**Table 86 - IGP&I : gross tonnage (in 1000 gt) of medium sized<sup>(1)</sup> ships, by type and age**

Ship Type	0-4		5-14		15-24		25+		Total	
General Cargo Ships	3,527	11.6%	14,935	18.0%	5,615	16.9%	2,792	20.6%	26,869	16.8%
Specialized Cargo Ships	297	1.0%	501	0.6%	167	0.5%	224	1.6%	1,189	0.7%
Container Ships	2,351	7.7%	10,957	13.2%	7,604	22.9%	1,067	7.9%	21,979	13.7%
Ro-Ro Cargo Ships	132	0.4%	1,149	1.4%	1,596	4.8%	894	6.6%	3,771	2.4%
Bulk Carriers	12,994	42.6%	23,800	28.7%	6,148	18.6%	1,931	14.2%	44,873	28.0%
Oil and Chemical Tankers	4,567	15.0%	20,664	25.0%	6,985	21.1%	1,777	13.1%	33,993	21.2%
Gas Tankers	1,703	5.6%	2,660	3.2%	1,430	4.3%	547	4.0%	6,340	4.0%
Other Tankers	526	1.7%	555	0.7%	135	0.4%	51	0.4%	1,267	0.8%
Passenger Ships	251	0.8%	856	1.0%	1,540	4.6%	2,283	16.8%	4,930	3.1%
Offshore Vessels	3,591	11.8%	5,293	6.4%	894	2.7%	816	6.0%	10,594	6.6%
Service Ships	483	1.6%	1,166	1.4%	977	2.9%	1,114	8.2%	3,740	2.3%
Tugs	108	0.4%	259	0.3%	45	0.1%	81	0.6%	493	0.3%
<b>Total</b>	<b>30,530</b>	<b>100%</b>	<b>82,795</b>	<b>100%</b>	<b>33,136</b>	<b>100%</b>	<b>13,577</b>	<b>100%</b>	<b>160,038</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 500≤GT<25.000**Graph 80 - IGP&I medium sized ships, by age****Graph 81 - Gross tonnage of IGP&I medium sized ships, by age**

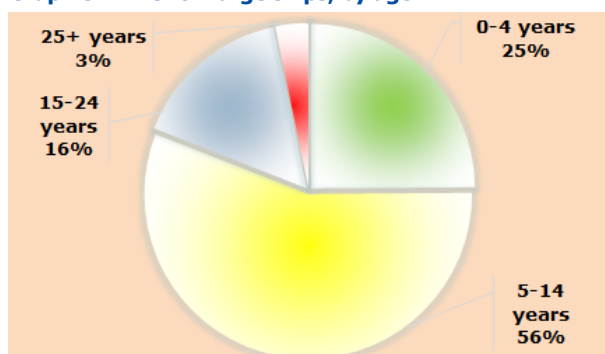
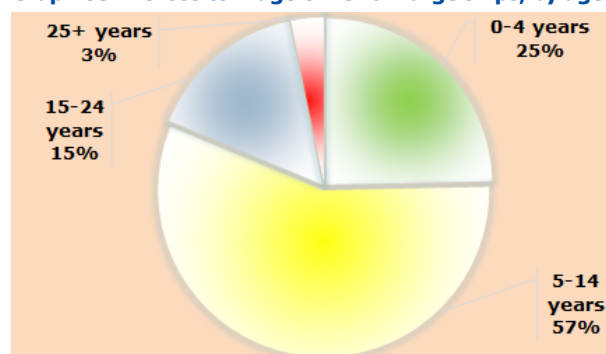
## LARGE SHIPS

**Table 87 - IGP&I : total number of large<sup>(1)</sup> ships, by type and age**

Ship Type	0-4		5-14		15-24		25+		Total	
General Cargo Ships	76	2.8%	64	1.0%	56	3.2%	25	7.0%	221	2.0%
Specialized Cargo Ships	10	0.4%	8	0.1%	9	0.5%	37	10.3%	64	0.6%
Container Ships	190	7.0%	939	15.3%	271	15.6%	42	11.7%	1,442	13.1%
Ro-Ro Cargo Ships	53	1.9%	343	5.6%	135	7.8%	27	7.5%	558	5.1%
Bulk Carriers	1,713	62.7%	2,925	47.5%	712	41.0%	65	18.2%	5,415	49.3%
Oil and Chemical Tankers	503	18.4%	1,647	26.8%	393	22.6%	35	9.8%	2,578	23.5%
Gas Tankers	158	5.8%	110	1.8%	36	2.1%	29	8.1%	333	3.0%
Other Tankers	3	0.1%	4	0.1%	2	0.1%			9	0.1%
Passenger Ships	13	0.5%	76	1.2%	103	5.9%	67	18.7%	259	2.4%
Offshore Vessels	12	0.4%	29	0.5%	15	0.9%	24	6.7%	80	0.7%
Service Ships	1	0.0%	10	0.2%	4	0.2%	7	2.0%	22	0.2%
Tugs										
<b>Total</b>	<b>2,732</b>	<b>100%</b>	<b>6,155</b>	<b>100%</b>	<b>1,736</b>	<b>100%</b>	<b>358</b>	<b>100%</b>	<b>10,981</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 25.000≤GT<60.000**Table 88 - IGP&I : gross tonnage (in 1000 gt) of large<sup>(1)</sup> ships, by type and age**

Ship Type	0-4		5-14		15-24		25+		Total	
General Cargo Ships	2,506	2.4%	2,257	1.0%	1,791	2.8%	704	5.3%	7,258	1.7%
Specialized Cargo Ships	418	0.4%	290	0.1%	363	0.6%	1,330	10.0%	2,401	0.6%
Container Ships	7,491	7.3%	36,539	15.5%	9,643	14.9%	1,525	11.5%	55,198	13.3%
Ro-Ro Cargo Ships	2,727	2.7%	16,350	6.9%	6,410	9.9%	1,118	8.4%	26,605	6.4%
Bulk Carriers	65,503	63.8%	110,151	46.8%	24,402	37.7%	2,466	18.5%	202,522	48.7%
Oil and Chemical Tankers	16,090	15.7%	60,356	25.6%	15,897	24.6%	1,181	8.9%	93,524	22.5%
Gas Tankers	6,779	6.6%	4,826	2.1%	1,593	2.5%	1,268	9.5%	14,466	3.5%
Other Tankers	82	0.1%	128	0.1%	62	0.1%			272	0.1%
Passenger Ships	557	0.5%	2,725	1.2%	3,644	5.6%	2,420	18.2%	9,346	2.2%
Offshore Vessels	467	0.5%	1,411	0.6%	773	1.2%	1,057	7.9%	3,708	0.9%
Service Ships	27	0.0%	364	0.2%	137	0.2%	245	1.8%	773	0.2%
Tugs										
<b>Total</b>	<b>102,647</b>	<b>100%</b>	<b>235,397</b>	<b>100%</b>	<b>64,715</b>	<b>100%</b>	<b>13,314</b>	<b>100%</b>	<b>416,073</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 25.000≤GT<60.000**Graph 82 - IGP&I large ships, by age****Graph 83 - Gross tonnage of IGP&I large ships, by age**

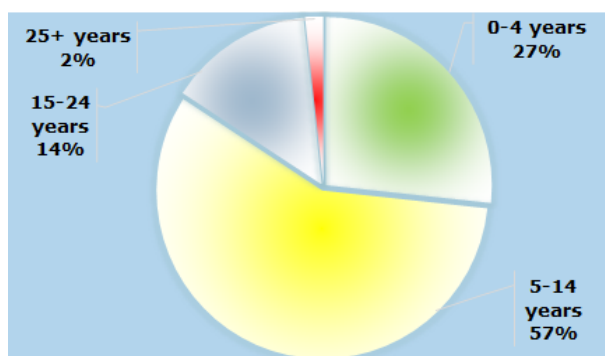
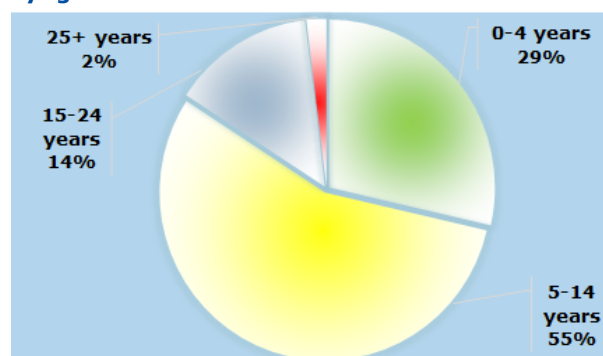
## VERY LARGE SHIPS

**Table 89 - IGP&I : total number of very large<sup>(1)</sup> ships, by type and age**

Ship Type	0-4		5-14		15-24		25+		Total	
General Cargo Ships										
Specialized Cargo Ships	3	0.2%							3	0.1%
Container Ships	427	28.0%	730	22.2%	164	20.4%			1,321	23.1%
Ro-Ro Cargo Ships	69	4.5%	132	4.0%	19	2.4%			220	3.9%
Bulk Carriers	441	28.9%	1,040	31.7%	163	20.3%	19	18.8%	1,663	29.1%
Oil and Chemical Tankers	410	26.9%	1,055	32.1%	293	36.4%	4	4.0%	1,762	30.8%
Gas Tankers	116	7.6%	228	6.9%	60	7.5%	15	14.9%	419	7.3%
Other Tankers										
Passenger Ships	25	1.6%	79	2.4%	59	7.3%	8	7.9%	171	3.0%
Offshore Vessels	33	2.2%	19	0.6%	44	5.5%	53	52.5%	149	2.6%
Service Ships	1	0.1%			2	0.2%	2	2.0%	5	0.1%
Tugs										
<b>Total</b>	<b>1,525</b>	<b>100%</b>	<b>3,283</b>	<b>100%</b>	<b>804</b>	<b>100%</b>	<b>101</b>	<b>100%</b>	<b>5,713</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> GT≥60.000**Table 90 - IGP&I : gross tonnage (in 1000 gt) of very large<sup>(1)</sup> ships, by type and age**

Ship Type	0-4		5-14		15-24		25+		Total	
General Cargo Ships										
Specialized Cargo Ships	237	0.1%							237	0.0%
Container Ships	53,688	31.9%	70,666	21.6%	11,933	14.6%			136,287	23.2%
Ro-Ro Cargo Ships	4,989	3.0%	8,444	2.6%	1,290	1.6%			14,723	2.5%
Bulk Carriers	46,053	27.4%	100,320	30.7%	16,404	20.1%	2,526	22.2%	165,303	28.1%
Oil and Chemical Tankers	43,152	25.6%	111,955	34.3%	34,336	42.1%	300	2.6%	189,743	32.3%
Gas Tankers	12,840	7.6%	25,400	7.8%	6,184	7.6%	1,448	12.8%	45,872	7.8%
Other Tankers										
Passenger Ships	3,477	2.1%	8,339	2.6%	5,028	6.2%	567	5.0%	17,411	3.0%
Offshore Vessels	3,429	2.0%	1,614	0.5%	6,171	7.6%	6,377	56.2%	17,591	3.0%
Service Ships	403	0.2%			302	0.4%	135	1.2%	840	0.1%
Tugs										
<b>Total</b>	<b>168,268</b>	<b>100%</b>	<b>326,738</b>	<b>100%</b>	<b>81,648</b>	<b>100%</b>	<b>11,353</b>	<b>100%</b>	<b>588,007</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> GT≥60.000**Graph 84 - IGP&I very large ships, by age****Graph 85 - Gross tonnage of IGP&I very large ships, by age**

## 4.3. NON IGP&amp;I AND AGE

## WHOLE FLEET GT≥500

Table 91 - Non IGP&amp;I world fleet GT≥500: total number of ships, by type and age

Ship Type	0-4		5-14		15-24		25+		Total	
General Cargo Ships	394	20.5%	1,748	37.5%	1,330	37.5%	4,585	41.6%	8,057	38.1%
Specialized Cargo Ships	6	0.3%	15	0.3%	3	0.1%	100	0.9%	124	0.6%
Container Ships	79	4.1%	198	4.2%	259	7.3%	91	0.8%	627	3.0%
Ro-Ro Cargo Ships	30	1.6%	56	1.2%	85	2.4%	233	2.1%	404	1.9%
Bulk Carriers	227	11.8%	633	13.6%	390	11.0%	546	5.0%	1,796	8.5%
Oil and Chemical Tankers	307	15.9%	503	10.8%	512	14.4%	1,674	15.2%	2,996	14.2%
Gas Tankers	24	1.2%	64	1.4%	78	2.2%	209	1.9%	375	1.8%
Other Tankers	41	2.1%	41	0.9%	29	0.8%	201	1.8%	312	1.5%
Passenger Ships	203	10.5%	367	7.9%	396	11.2%	936	8.5%	1,902	9.0%
Offshore Vessels	324	16.8%	618	13.3%	182	5.1%	1,076	9.8%	2,200	10.4%
Service Ships	246	12.8%	328	7.0%	237	6.7%	1,000	9.1%	1,811	8.6%
Tugs	45	2.3%	90	1.9%	48	1.4%	369	3.3%	552	2.6%
<b>Total</b>	<b>1,926</b>	<b>100%</b>	<b>4,661</b>	<b>100%</b>	<b>3,549</b>	<b>100%</b>	<b>11,020</b>	<b>100%</b>	<b>21,156</b>	<b>100%</b>

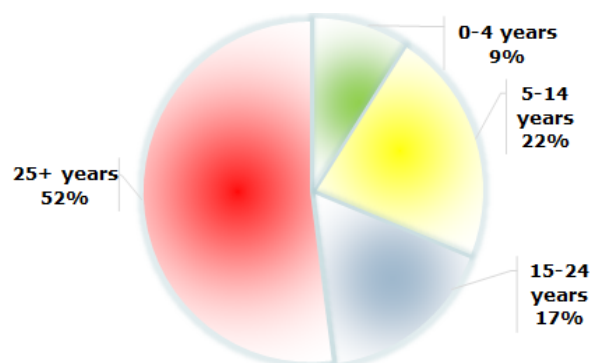
Source: Equasis

Table 92 - Non IGP&amp;I world fleet GT≥500: gross tonnage (in 1000 gt) of ships, by type and age

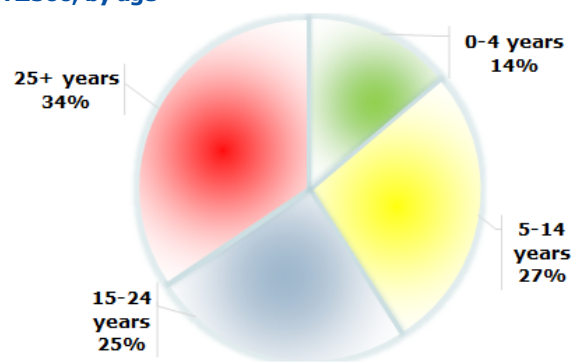
Ship Type	0-4		5-14		15-24		25+		Total	
General Cargo Ships	1,169	8.7%	5,542	21.0%	5,030	20.9%	11,566	34.5%	23,307	23.9%
Specialized Cargo Ships	108	0.8%	146	0.6%	17	0.1%	435	1.3%	706	0.7%
Container Ships	1,211	9.0%	2,627	10.0%	3,110	12.9%	711	2.1%	7,659	7.9%
Ro-Ro Cargo Ships	384	2.8%	1,103	4.2%	856	3.6%	1,824	5.4%	4,167	4.3%
Bulk Carriers	3,962	29.4%	9,400	35.7%	7,964	33.2%	5,469	16.3%	26,795	27.5%
Oil and Chemical Tankers	1,413	10.5%	2,096	8.0%	3,298	13.7%	4,707	14.1%	11,514	11.8%
Gas Tankers	146	1.1%	117	0.4%	199	0.8%	523	1.6%	985	1.0%
Other Tankers	68	0.5%	64	0.2%	47	0.2%	228	0.7%	407	0.4%
Passenger Ships	892	6.6%	1,359	5.2%	1,447	6.0%	2,890	8.6%	6,588	6.8%
Offshore Vessels	3,150	23.4%	2,723	10.3%	1,449	6.0%	2,681	8.0%	10,003	10.3%
Service Ships	940	7.0%	1,069	4.1%	564	2.3%	2,136	6.4%	4,709	4.8%
Tugs	36	0.3%	97	0.4%	40	0.2%	323	1.0%	496	0.5%
<b>Total</b>	<b>13,479</b>	<b>100%</b>	<b>26,343</b>	<b>100%</b>	<b>24,021</b>	<b>100%</b>	<b>33,493</b>	<b>100%</b>	<b>97,336</b>	<b>100%</b>

Source: Equasis

Graph 86 - Non IGP&amp;I world fleet GT≥500, by age



Graph 87 - Gross tonnage of non IGP&amp;I world fleet GT≥500, by age





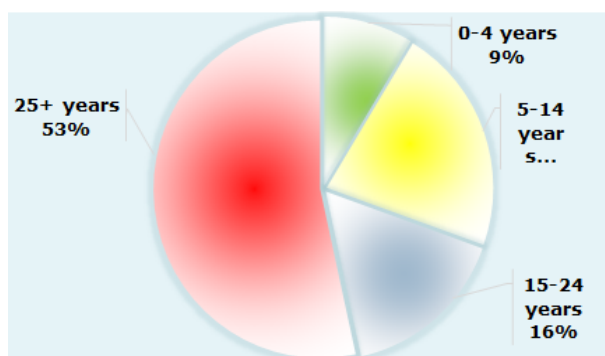
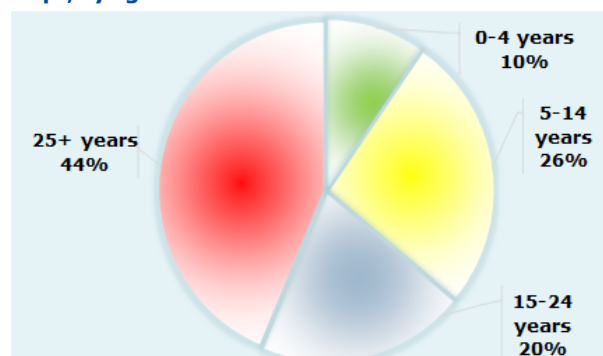
## MEDIUM SIZED SHIPS

**Table 93 - Non IGP&I : total number of medium sized<sup>(1)</sup> ships, by type and age**

Ship Type	0-4		5-14		15-24		25+		Total	
General Cargo Ships	394	22.3%	1,748	39.2%	1,323	40.2%	4,584	42.0%	8,049	39.4%
Specialized Cargo Ships	5	0.3%	15	0.3%	3	0.1%	100	0.9%	123	0.6%
Container Ships	65	3.7%	173	3.9%	228	6.9%	88	0.8%	554	2.7%
Ro-Ro Cargo Ships	28	1.6%	41	0.9%	77	2.3%	221	2.0%	367	1.8%
Bulk Carriers	135	7.6%	505	11.3%	221	6.7%	500	4.6%	1,361	6.7%
Oil and Chemical Tankers	299	16.9%	494	11.1%	482	14.7%	1,653	15.2%	2,928	14.3%
Gas Tankers	22	1.2%	64	1.4%	77	2.3%	207	1.9%	370	1.8%
Other Tankers	41	2.3%	41	0.9%	29	0.9%	201	1.8%	312	1.5%
Passenger Ships	201	11.4%	364	8.2%	395	12.0%	929	8.5%	1,889	9.3%
Offshore Vessels	291	16.4%	593	13.3%	167	5.1%	1,057	9.7%	2,108	10.3%
Service Ships	243	13.7%	327	7.3%	237	7.2%	999	9.2%	1,806	8.8%
Tugs	45	2.5%	90	2.0%	48	1.5%	369	3.4%	552	2.7%
<b>Total</b>	<b>1,769</b>	<b>100%</b>	<b>4,455</b>	<b>100%</b>	<b>3,287</b>	<b>100%</b>	<b>10,908</b>	<b>100%</b>	<b>20,419</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 500≤GT<25.000**Table 94 - Non IGP&I : gross tonnage (in 1000 gt) of medium size<sup>(1)</sup> ships, by type and age**

Ship Type	0-4		5-14		15-24		25+		Total	
General Cargo Ships	1,169	18.4%	5,542	31.8%	4,836	36.1%	11,528	40.0%	23,075	35.0%
Specialized Cargo Ships	41	0.6%	146	0.8%	17	0.1%	435	1.5%	639	1.0%
Container Ships	535	8.4%	1,486	8.5%	1,809	13.5%	571	2.0%	4,401	6.7%
Ro-Ro Cargo Ships	287	4.5%	385	2.2%	510	3.8%	1,339	4.6%	2,521	3.8%
Bulk Carriers	862	13.6%	4,519	25.9%	2,084	15.6%	3,819	13.3%	11,284	17.1%
Oil and Chemical Tankers	729	11.5%	1,638	9.4%	1,609	12.0%	3,937	13.7%	7,913	12.0%
Gas Tankers	53	0.8%	117	0.7%	156	1.2%	400	1.4%	726	1.1%
Other Tankers	68	1.1%	64	0.4%	47	0.4%	228	0.8%	407	0.6%
Passenger Ships	825	13.0%	1,266	7.3%	1,417	10.6%	2,691	9.3%	6,199	9.4%
Offshore Vessels	913	14.4%	1,169	6.7%	309	2.3%	1,458	5.1%	3,849	5.8%
Service Ships	841	13.2%	1,014	5.8%	564	4.2%	2,076	7.2%	4,495	6.8%
Tugs	36	0.6%	97	0.6%	40	0.3%	323	1.1%	496	0.8%
<b>Total</b>	<b>6,359</b>	<b>100%</b>	<b>17,443</b>	<b>100%</b>	<b>13,398</b>	<b>100%</b>	<b>28,805</b>	<b>100%</b>	<b>66,005</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 500≤GT<25.000**Graph 88 - Non IGP&I medium sized ships, by age****Graph 89 - Gross tonnage of non IGP&I medium sized ships, by age**

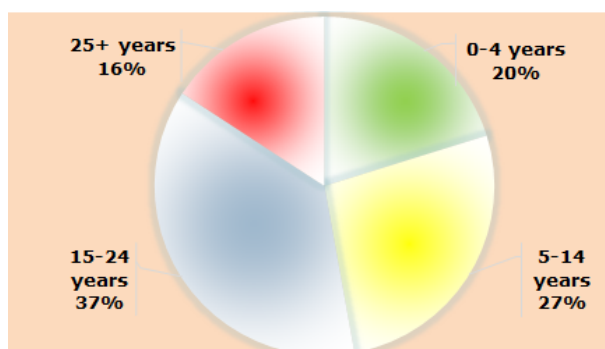
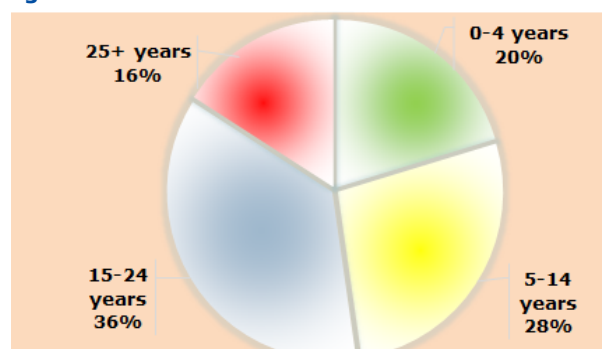
## LARGE SHIPS

**Table 95 - Non IGP&I : total number of large<sup>(1)</sup> ships, by type and age**

Ship Type	0-4		5-14		15-24		25+		Total	
General Cargo Ships					7	3.0%	1	1.0%	8	1.3%
Specialized Cargo Ships										
Container Ships	12	9.4%	22	12.9%	28	11.9%	3	3.0%	65	10.3%
Ro-Ro Cargo Ships	1	0.8%	13	7.6%	8	3.4%	12	12.0%	34	5.4%
Bulk Carriers	91	71.1%	117	68.4%	162	68.9%	45	45.0%	415	65.5%
Oil and Chemical Tankers	1	0.8%	8	4.7%	23	9.8%	19	19.0%	51	8.0%
Gas Tankers	2	1.6%			1	0.4%	1	1.0%	4	0.6%
Other Tankers										
Passenger Ships	2	1.6%	3	1.8%	1	0.4%	7	7.0%	13	2.1%
Offshore Vessels	16	12.5%	7	4.1%	5	2.1%	12	12.0%	40	6.3%
Service Ships	3	2.3%	1	0.6%					4	0.6%
Tugs										
<b>Total</b>	<b>128</b>	<b>100%</b>	<b>171</b>	<b>100%</b>	<b>235</b>	<b>100%</b>	<b>100</b>	<b>100%</b>	<b>634</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 25.000≤GT<60.000**Table 96 - Non IGP&I : gross tonnage (in 1000 gt) of large<sup>(1)</sup> ships, by type and age**

Ship Type	0-4		5-14		15-24		25+		Total	
General Cargo Ships					194	2.4%	38	1.1%	232	1.1%
Specialized Cargo Ships										
Container Ships	381	8.5%	859	14.2%	1,105	13.8%	140	4.0%	2,485	11.3%
Ro-Ro Cargo Ships	35	0.8%	573	9.5%	346	4.3%	485	13.8%	1,439	6.5%
Bulk Carriers	2,965	66.1%	3,869	64.2%	5,254	65.6%	1,498	42.5%	13,586	61.6%
Oil and Chemical Tankers	30	0.7%	286	4.7%	823	10.3%	622	17.6%	1,761	8.0%
Gas Tankers	93	2.1%			43	0.5%	44	1.2%	180	0.8%
Other Tankers										
Passenger Ships	67	1.5%	93	1.5%	30	0.4%	199	5.6%	389	1.8%
Offshore Vessels	816	18.2%	296	4.9%	216	2.7%	500	14.2%	1,828	8.3%
Service Ships	99	2.2%	55	0.9%					154	0.7%
Tugs										
<b>Total</b>	<b>4,486</b>	<b>100%</b>	<b>6,031</b>	<b>100%</b>	<b>8,011</b>	<b>100%</b>	<b>3,526</b>	<b>100%</b>	<b>22,054</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> 25.000≤GT<60.000**Graph 90 - Non IGP&I large ships, by age****Graph 91 - Gross tonnage of non IGP&I large ships, by age**

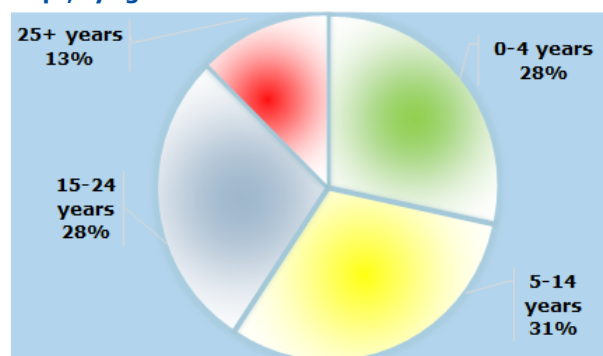
## VERY LARGE SHIPS

**Table 97 - Non IGP&I : total number of very large<sup>(1)</sup> ships, by type and age**

Ship Type	0-4		5-14		15-24		25+		Total	
General Cargo Ships										
Specialized Cargo Ships	1	3.4%							1	1.0%
Container Ships	2	6.9%	3	8.6%	3	11.1%			8	7.8%
Ro-Ro Cargo Ships	1	3.4%	2	5.7%					3	2.9%
Bulk Carriers	1	3.4%	11	31.4%	7	25.9%	1	8.3%	20	19.4%
Oil and Chemical Tankers	7	24.1%	1	2.9%	7	25.9%	2	16.7%	17	16.5%
Gas Tankers							1	8.3%	1	1.0%
Other Tankers										
Passenger Ships										
Offshore Vessels	17	58.6%	18	51.4%	10	37.0%	7	58.3%	52	50.5%
Service Ships							1	8.3%	1	1.0%
Tugs										
<b>Total</b>	<b>29</b>	<b>100%</b>	<b>35</b>	<b>100%</b>	<b>27</b>	<b>100%</b>	<b>12</b>	<b>100%</b>	<b>103</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> GT≥60.000**Table 98 - Non IGP&I : gross tonnage (in 1000 gt) of very large<sup>(1)</sup> ships, by type and age**

Ship Type	0-4		5-14		15-24		25+		Total	
General Cargo Ships										
Specialized Cargo Ships	67	2.5%							67	0.7%
Container Ships	295	11.2%	282	9.8%	196	7.5%			773	8.3%
Ro-Ro Cargo Ships	62	2.4%	145	5.1%					207	2.2%
Bulk Carriers	135	5.1%	1,012	35.3%	626	24.0%	152	13.1%	1,925	20.8%
Oil and Chemical Tankers	654	24.8%	172	6.0%	866	33.2%	148	12.7%	1,840	19.8%
Gas Tankers							79	6.8%	79	0.9%
Other Tankers										
Passenger Ships										
Offshore Vessels	1,421	53.9%	1,258	43.8%	924	35.4%	723	62.2%	4,326	46.6%
Service Ships							60	5.2%	60	0.6%
Tugs										
<b>Total</b>	<b>2,634</b>	<b>100%</b>	<b>2,869</b>	<b>100%</b>	<b>2,612</b>	<b>100%</b>	<b>1,162</b>	<b>100%</b>	<b>9,277</b>	<b>100%</b>

Source: Equasis - <sup>(1)</sup> GT≥60.000**Graph 92 - Non IGP&I very large ships, by age****Graph 93 - Gross tonnage of non IGP&I very large ships, by age**

## 4.4. P&amp;I AND FLAG

## WORLD FLEET GT≥500

Table 99 - P&amp;I world fleet GT≥500 status : total number of ships, by type and flag

Ship Type	Targeted flag					Non Targeted flag				
	IGP&I		Non IGP&I		Total	IGP&I		Non IGP&I		Total
General Cargo Ships	1,510	15.7%	3,968	48.4%	5,478	2,492	9.7%	4,089	31.6%	6,581
Specialized Cargo Ships	35	0.4%	74	0.9%	109	134	0.5%	50	0.4%	184
Container Ships	1,097	11.4%	266	3.2%	1,363	3,365	13.1%	361	2.8%	3,726
Ro-Ro Cargo Ships	305	3.2%	161	2.0%	466	747	2.9%	243	1.9%	990
Bulk Carriers	3,219	33.4%	623	7.6%	3,842	6,290	24.5%	1,173	9.1%	7,463
Oil and Chemical Tankers	1,923	19.9%	1,127	13.7%	3,050	6,401	25.0%	1,869	14.4%	8,270
Gas Tankers	371	3.8%	130	1.6%	501	1,137	4.4%	245	1.9%	1,382
Other Tankers	67	0.7%	112	1.4%	179	235	0.9%	200	1.5%	435
Passenger Ships	162	1.7%	646	7.9%	808	1,053	4.1%	1,256	9.7%	2,309
Offshore Vessels	732	7.6%	669	8.2%	1,401	2,791	10.9%	1,531	11.8%	4,322
Service Ships	158	1.6%	365	4.4%	523	617	2.4%	1,446	11.2%	2,063
Tugs	65	0.7%	65	0.8%	130	386	1.5%	487	3.8%	873
<b>Total</b>	<b>9,644</b>	<b>100%</b>	<b>8,206</b>	<b>100%</b>	<b>17,850</b>	<b>25,648</b>	<b>100%</b>	<b>12,950</b>	<b>100%</b>	<b>38,598</b>

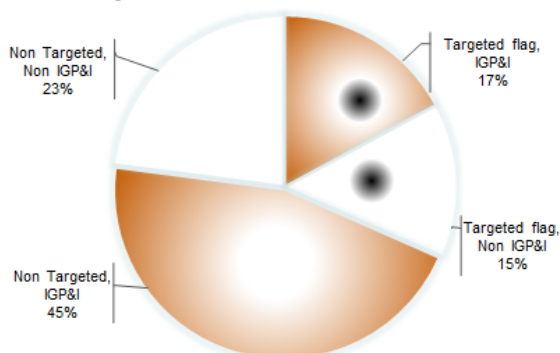
Source: Equasis

Table 100 - P&amp;I world fleet GT≥500 status : gross tonnage (in 1000 gt) of ships, by type and flag

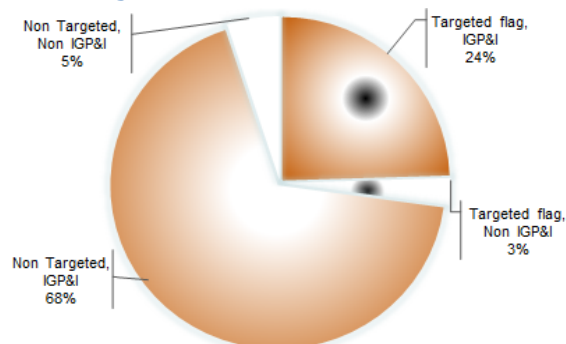
Ship Type	Targeted flag					Non Targeted flag				
	IGP&I		Non IGP&I		Total	IGP&I		Non IGP&I		Total
General Cargo Ships	10,940	3.5%	11,498	34.4%	22,438	23,187	2.7%	11,809	18.5%	34,996
Specialized Cargo Ships	761	0.2%	265	0.8%	1,026	3,064	0.4%	441	0.7%	3,505
Container Ships	42,405	13.7%	2,105	6.3%	44,510	171,059	20.0%	5,552	8.7%	176,611
Ro-Ro Cargo Ships	13,649	4.4%	1,872	5.6%	15,521	31,450	3.7%	2,295	3.6%	33,745
Bulk Carriers	137,221	44.4%	7,737	23.2%	144,958	275,479	32.2%	19,057	29.8%	294,536
Oil and Chemical Tankers	77,698	25.1%	4,564	13.7%	82,262	239,564	28.0%	6,951	10.9%	246,515
Gas Tankers	13,120	4.2%	444	1.3%	13,564	53,558	6.3%	541	0.8%	54,099
Other Tankers	297	0.1%	181	0.5%	478	1,242	0.1%	226	0.4%	1,468
Passenger Ships	4,489	1.5%	2,210	6.6%	6,699	27,198	3.2%	4,378	6.9%	31,576
Offshore Vessels	7,454	2.4%	1,686	5.0%	9,140	24,439	2.9%	8,317	13.0%	32,756
Service Ships	1,082	0.3%	802	2.4%	1,884	4,273	0.5%	3,906	6.1%	8,179
Tugs	60	0.0%	57	0.2%	117	432	0.1%	439	0.7%	871
<b>Total</b>	<b>309,176</b>	<b>100%</b>	<b>33,421</b>	<b>100%</b>	<b>342,597</b>	<b>854,945</b>	<b>100%</b>	<b>63,912</b>	<b>100%</b>	<b>918,857</b>

Source: Equasis

Graph 94 - Total number of ships GT≥500, by P&amp;I status and flag



Graph 95 - Gross tonnage of ships GT≥500, by P&amp;I status and flag



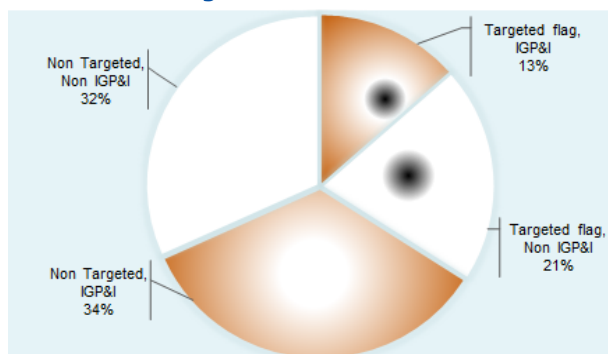
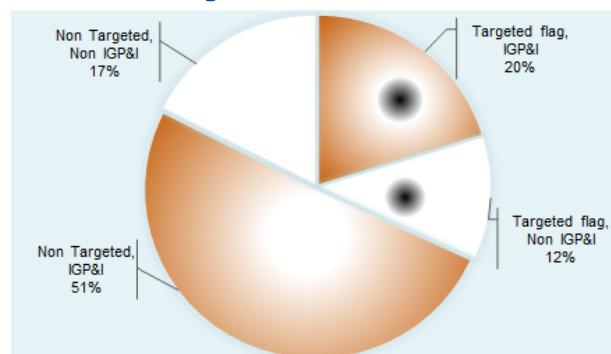
## MEDIUM SIZED SHIPS

**Table 101 - P&I status : total number of medium sized<sup>(1)</sup> ships, by type and flag**

Ship Type	Targeted flag					Non Targeted flag				
	IGP&I		Non IGP&I		Total	IGP&I		Non IGP&I		Total
General Cargo Ships	1,480	28.1%	3,966	49.4%	5,446	2,301	17.3%	4,083	32.9%	6,384
Specialized Cargo Ships	20	0.4%	74	0.9%	94	82	0.6%	49	0.4%	131
Container Ships	569	10.8%	258	3.2%	827	1,130	8.5%	296	2.4%	1,426
Ro-Ro Cargo Ships	55	1.0%	140	1.7%	195	219	1.6%	227	1.8%	446
Bulk Carriers	871	16.6%	527	6.6%	1,398	1,560	11.7%	834	6.7%	2,394
Oil and Chemical Tankers	997	19.0%	1,093	13.6%	2,090	2,987	22.4%	1,835	14.8%	4,822
Gas Tankers	213	4.0%	128	1.6%	341	543	4.1%	242	2.0%	785
Other Tankers	65	1.2%	112	1.4%	177	228	1.7%	200	1.6%	428
Passenger Ships	106	2.0%	641	8.0%	747	679	5.1%	1,248	10.1%	1,927
Offshore Vessels	668	12.7%	659	8.2%	1,327	2,626	19.7%	1,449	11.7%	4,075
Service Ships	151	2.9%	364	4.5%	515	597	4.5%	1,442	11.6%	2,039
Tugs	65	1.2%	65	0.8%	130	386	2.9%	487	3.9%	873
<b>Total</b>	<b>5,260</b>	<b>100%</b>	<b>8,027</b>	<b>100%</b>	<b>13,287</b>	<b>13,338</b>	<b>100%</b>	<b>12,392</b>	<b>100%</b>	<b>25,730</b>

Source: Equasis - <sup>(1)</sup> 500≤GT<25.000**Table 102 - P&I status : gross tonnage (in 1000 gt) of medium sized<sup>(1)</sup> ships, by type and flag**

Ship Type	Targeted flag					Non Targeted flag				
	IGP&I		Non IGP&I		Total	IGP&I		Non IGP&I		Total
General Cargo Ships	9,939	21.7%	11,437	43.4%	21,376	16,930	14.8%	11,637	29.3%	28,567
Specialized Cargo Ships	229	0.5%	265	1.0%	494	959	0.8%	374	0.9%	1,333
Container Ships	7,072	15.5%	1,806	6.9%	8,878	14,906	13.0%	2,594	6.5%	17,500
Ro-Ro Cargo Ships	589	1.3%	830	3.1%	1,419	3,181	2.8%	1,691	4.3%	4,872
Bulk Carriers	15,064	32.9%	4,409	16.7%	19,473	29,809	26.1%	6,875	17.3%	36,684
Oil and Chemical Tankers	7,541	16.5%	3,066	11.6%	10,607	26,452	23.1%	4,848	12.2%	31,300
Gas Tankers	1,694	3.7%	322	1.2%	2,016	4,646	4.1%	404	1.0%	5,050
Other Tankers	241	0.5%	181	0.7%	422	1,026	0.9%	226	0.6%	1,252
Passenger Ships	734	1.6%	2,065	7.8%	2,799	4,196	3.7%	4,134	10.4%	8,330
Offshore Vessels	1,857	4.1%	1,167	4.4%	3,024	8,737	7.6%	2,683	6.8%	11,420
Service Ships	724	1.6%	747	2.8%	1,471	3,017	2.6%	3,747	9.4%	6,764
Tugs	60	0.1%	57	0.2%	117	432	0.4%	439	1.1%	871
<b>Total</b>	<b>45,744</b>	<b>100%</b>	<b>26,352</b>	<b>100%</b>	<b>72,096</b>	<b>114,291</b>	<b>100%</b>	<b>39,652</b>	<b>100%</b>	<b>153,943</b>

Source: Equasis - <sup>(1)</sup> 500≤GT<25.000**Graph 96 - Total number of medium sized ships, by P&I status and flag****Graph 97 - Gross tonnage of medium sized ships, by P&I status and flag**

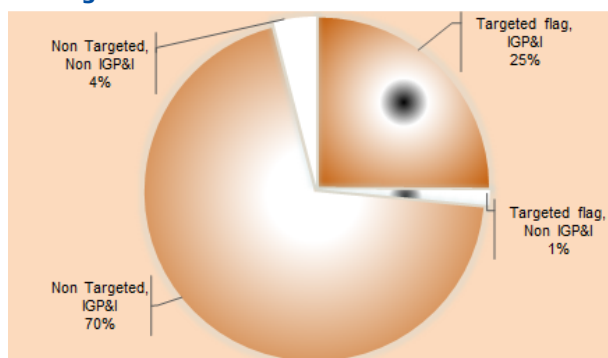
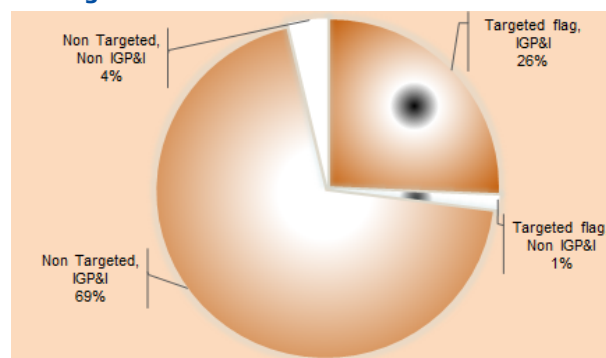
## LARGE SHIPS

**Table 103 - P&I status : total number of large<sup>(1)</sup> ships, by type and flag**

Ship Type	Targeted flag					Non Targeted flag				
	IGP&I		Non IGP&I		Total	IGP&I		Non IGP&I		Total
General Cargo Ships	30	1.0%	2	1.2%	32	191	2.4%	6	1.3%	197
Specialized Cargo Ships	15	0.5%			15	49	0.6%			49
Container Ships	285	9.8%	8	4.8%	293	1,157	14.3%	57	12.2%	1,214
Ro-Ro Cargo Ships	189	6.5%	20	12.1%	209	369	4.6%	14	3.0%	383
Bulk Carriers	1,760	60.4%	92	55.8%	1,852	3,655	45.3%	323	68.9%	3,978
Oil and Chemical Tankers	486	16.7%	29	17.6%	515	2,092	25.9%	22	4.7%	2,114
Gas Tankers	87	3.0%	1	0.6%	88	246	3.0%	3	0.6%	249
Other Tankers	2	0.1%			2	7	0.1%			7
Passenger Ships	27	0.9%	5	3.0%	32	232	2.9%	8	1.7%	240
Offshore Vessels	26	0.9%	7	4.2%	33	54	0.7%	33	7.0%	87
Service Ships	6	0.2%	1	0.6%	7	16	0.2%	3	0.6%	19
Tugs										
<b>Total</b>	<b>2,913</b>	<b>100%</b>	<b>165</b>	<b>100%</b>	<b>3,078</b>	<b>8,068</b>	<b>100%</b>	<b>469</b>	<b>100%</b>	<b>8,537</b>

Source: Equasis - <sup>(1)</sup> 25.000≤GT<60.000**Table 104 - P&I status : gross tonnage (in 1000 gt) of large<sup>(1)</sup> ships, by type and flag**

Ship Type	Targeted flag					Non Targeted flag				
	IGP&I		Non IGP&I		Total	IGP&I		Non IGP&I		Total
General Cargo Ships	1,001	0.9%	61	1.0%	1,062	6,257	2.1%	172	1.1%	6,429
Specialized Cargo Ships	532	0.5%			532	1,868	0.6%			1,868
Container Ships	10,680	9.5%	299	5.1%	10,979	44,519	14.7%	2,185	13.5%	46,704
Ro-Ro Cargo Ships	9,126	8.1%	970	16.6%	10,096	17,479	5.8%	469	2.9%	17,948
Bulk Carriers	66,114	58.8%	2,976	51.0%	69,090	136,409	44.9%	10,609	65.4%	147,018
Oil and Chemical Tankers	18,757	16.7%	1,005	17.2%	19,762	74,768	24.6%	756	4.7%	75,524
Gas Tankers	3,901	3.5%	43	0.7%	3,944	10,565	3.5%	137	0.8%	10,702
Other Tankers	56	0.0%			56	216	0.1%			216
Passenger Ships	828	0.7%	145	2.5%	973	8,518	2.8%	244	1.5%	8,762
Offshore Vessels	1,169	1.0%	286	4.9%	1,455	2,539	0.8%	1,541	9.5%	4,080
Service Ships	203	0.2%	55	0.9%	258	570	0.2%	99	0.6%	669
Tugs										
<b>Total</b>	<b>112,367</b>	<b>100%</b>	<b>5,840</b>	<b>100%</b>	<b>118,207</b>	<b>303,708</b>	<b>100%</b>	<b>16,212</b>	<b>100%</b>	<b>319,920</b>

Source: Equasis - <sup>(1)</sup> 25.000≤GT<60.000**Graph 98 - Total number of large ships, by P&I status and flag****Graph 99 - Gross tonnage of large ships, by P&I status and flag**

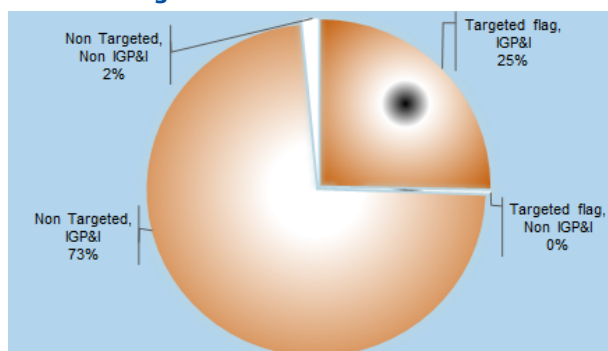
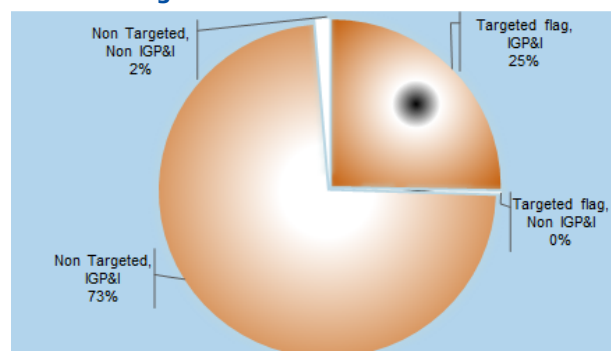
## VERY LARGE SHIPS

**Table 105 - P&I status : total number of very large<sup>(1)</sup> ships, by type and flag**

Ship Type	Targeted flag				Non Targeted flag					
	IGP&I		Non IGP&I		IGP&I		Non IGP&I		Total	
General Cargo Ships										
Specialized Cargo Ships					3	0.1%	1	1.1%	4	
Container Ships	243	16.5%			243	1,078	25.4%	8	9.0%	1,086
Ro-Ro Cargo Ships	61	4.1%	1	7.1%	62	159	3.7%	2	2.2%	161
Bulk Carriers	588	40.0%	4	28.6%	592	1,075	25.3%	16	18.0%	1,091
Oil and Chemical Tankers	440	29.9%	5	35.7%	445	1,322	31.2%	12	13.5%	1,334
Gas Tankers	71	4.8%	1	7.1%	72	348	8.2%			348
Other Tankers										
Passenger Ships	29	2.0%			29	142	3.3%			142
Offshore Vessels	38	2.6%	3	21.4%	41	111	2.6%	49	55.1%	160
Service Ships	1	0.1%			1	4	0.1%	1	1.1%	5
Tugs										
<b>Total</b>	<b>1,471</b>	<b>100%</b>	<b>14</b>	<b>100%</b>	<b>1,485</b>	<b>4,242</b>	<b>100%</b>	<b>89</b>	<b>100%</b>	<b>4,331</b>

Source: Equasis - <sup>(1)</sup>GT≥60.000**Table 106 - P&I status : gross tonnage (in 1000 gt) of very large<sup>(1)</sup> ships, by type and flag**

Ship Type	Targeted flag				Non Targeted flag					
	IGP&I		Non IGP&I		IGP&I		Non IGP&I		Total	
General Cargo Ships										
Specialized Cargo Ships					237	0.1%	67	0.8%	304	
Container Ships	24,653	16.3%			24,653	111,634	25.5%	773	9.6%	112,407
Ro-Ro Cargo Ships	3,934	2.6%	72	5.9%	4,006	10,790	2.5%	135	1.7%	10,925
Bulk Carriers	56,043	37.1%	352	28.6%	56,395	109,261	25.0%	1,573	19.5%	110,834
Oil and Chemical Tankers	51,400	34.0%	493	40.1%	51,893	138,344	31.7%	1,347	16.7%	139,691
Gas Tankers	7,525	5.0%	79	6.4%	7,604	38,347	8.8%			38,347
Other Tankers										
Passenger Ships	2,927	1.9%			2,927	14,484	3.3%			14,484
Offshore Vessels	4,428	2.9%	233	19.0%	4,661	13,163	3.0%	4,093	50.9%	17,256
Service Ships	155	0.1%			155	686	0.2%	60	0.7%	746
Tugs										
<b>Total</b>	<b>151,065</b>	<b>100%</b>	<b>1,229</b>	<b>100%</b>	<b>152,294</b>	<b>436,946</b>	<b>100%</b>	<b>8,048</b>	<b>100%</b>	<b>444,994</b>

Source: Equasis - <sup>(1)</sup>GT≥60.000**Graph 100 - Total number of very large ships, by P&I status and flag****Graph 101 - Gross tonnage of very large ships, by P&I status and flag**

## 4.5. SAFETY PERFORMANCE

## WHOLE FLEET GT≥500

**Table 107 - Whole fleet GT≥500 detention rate<sup>(\*)</sup>, by type and P&I status - 2016**

Ship Type	IGP&I	Non IGP&I	Overall
General Cargo Ships	2.34%	7.11%	4.72%
Specialized Cargo Ships	2.74%	5.14%	3.68%
Container Ships	1.18%	2.56%	1.27%
Ro-Ro Cargo Ships	1.21%	6.09%	1.69%
Bulk Carriers	1.80%	5.96%	2.07%
Oil and Chemical Tankers	1.22%	8.43%	1.57%
Gas Tankers	1.24%	5.66%	1.49%
Other Tankers	2.62%	10.45%	3.90%
Passenger Ships	1.11%	7.18%	1.76%
Offshore Vessels	2.24%	10.73%	4.07%
Service Ships	1.85%	5.11%	2.82%
Tugs	0.00%	2.86%	0.88%
<b>Total</b>	<b>1.63%</b>	<b>6.77%</b>	<b>2.52%</b>

Source: Equasis - <sup>(\*)</sup> Detentions in Paris MoU, Tokyo MoU, IO MoU, USCG, VDM and Med MoU divided by total number of inspections

## MEDIUM SIZED SHIPS

**Table 108 - Medium sized<sup>(1)</sup> ships detention rates<sup>(\*)</sup>, by type and P&I status - 2016**

Ship Type	IGP&I	Non IGP&I	Overall
General Cargo Ships	2.48%	7.12%	4.89%
Specialized Cargo Ships	2.30%	5.14%	3.71%
Container Ships	1.43%	2.87%	1.64%
Ro-Ro Cargo Ships	2.90%	8.74%	5.07%
Bulk Carriers	1.69%	6.45%	2.39%
Oil and Chemical Tankers	1.49%	8.44%	2.20%
Gas Tankers	1.51%	4.76%	1.82%
Other Tankers	2.74%	10.45%	4.05%
Passenger Ships	1.62%	8.59%	3.21%
Offshore Vessels	2.39%	11.06%	4.31%
Service Ships	1.90%	5.11%	2.88%
Tugs	0.00%	2.86%	0.88%
<b>Total</b>	<b>1.90%</b>	<b>6.96%</b>	<b>3.48%</b>

Source: Equasis - <sup>(1)</sup> 500≤GT<25.000 - <sup>(\*)</sup> Detentions in Paris MoU, Tokyo MoU, IO MoU, USCG, VDM, Med MoU, Caribbean MoU divided by total number of inspections



## LARGE SHIPS

**Table 109 - Large<sup>(1)</sup> ships detention rates<sup>(\*)</sup>, by type and P&I status - 2016**

Ship Type	IGP&I	Non IGP&I	Overall
General Cargo Ships	0.58%	0.00%	0.57%
Specialized Cargo Ships	3.60%		3.60%
Container Ships	1.46%	1.08%	1.45%
Ro-Ro Cargo Ships	1.16%	1.16%	1.16%
Bulk Carriers	1.70%	3.98%	1.75%
Oil and Chemical Tankers	1.08%	8.33%	1.11%
Gas Tankers	0.86%	100.00%	1.08%
Other Tankers	0.00%		0.00%
Passenger Ships	1.51%	0.00%	1.42%
Offshore Vessels	0.00%	0.00%	0.00%
Service Ships	0.00%		0.00%
Tugs			
<b>Total</b>	<b>1.48%</b>	<b>3.14%</b>	<b>1.51%</b>

Source: Equasis - <sup>(1)</sup> 25.000 ≤ GT < 60.000 - <sup>(\*)</sup> Detentions in Paris MoU, Tokyo MoU, IO MoU, USCG, VDM, Med MoU, Caribbean MoU divided by total number of inspections

## VERY LARGE SHIPS

**Table 110 - Very large<sup>(1)</sup> ships detention rates<sup>(\*)</sup>, by type and P&I status - 2016**

Ship Type	IGP&I	Non IGP&I	Overall
General Cargo Ships			
Specialized Cargo Ships	0.00%		0.00%
Container Ships	0.65%	0.00%	0.64%
Ro-Ro Cargo Ships	0.56%	0.00%	0.56%
Bulk Carriers	2.53%	6.67%	2.59%
Oil and Chemical Tankers	0.92%		0.92%
Gas Tankers	0.93%		0.93%
Other Tankers			
Passenger Ships	0.19%		0.19%
Offshore Vessels	0.00%	0.00%	0.00%
Service Ships	0.00%		0.00%
Tugs			
<b>Total</b>	<b>1.27%</b>	<b>4.05%</b>	<b>1.29%</b>

Source: Equasis - <sup>(1)</sup> GT ≥ 60.000 - <sup>(\*)</sup> Detentions in Paris MoU, Tokyo MoU, IO MoU, USCG, VDM and Med MoU divided by total number of inspections

## Chapter 5

# 5. Port State Control

## INTRODUCTION

Port State Control authorities check the compliance with International Conventions of foreign ships visiting their ports. Equasis statistics include inspection data provided by seven of the regional Port State Control regimes, Paris MoU, Tokyo MoU, Indian Ocean MoU (IO MoU), U.S. Coast Guard (USCG), Viña del Mar MoU, Mediterranean MoU (Med MoU) and Caribbean MoU (CMoU).

The analyses in this chapter take into account the last three years of inspections (2014-2016) from these PSC regimes as recorded in Equasis.

## PSC SHIP TYPE

As explained in Chapter 1, this chapter has been revised in 2011 to use the PSC ship types recorded during inspections, instead of the generic and commercial ship types used in the other chapters.

It needs to be noted that for consistency reasons the reference fleet is exactly the same one of the remaining chapters. It means that inspections of ships that are no longer active or with a "commercial" ship type out of the scope of these statistics are not counted in this chapter.

## INSPECTED SHIPS

Ships are subject to port State control inspections in most parts of the world, of which Equasis receives data from seven PSC regimes. However some ships do not trade to the participating maritime authorities of these seven MoU's or in some cases have not been inspected when they have visited them. In addition, some ships are not eligible for PSC inspections due to their size or type, or they are only engaged in domestic trade. However, these vessels are mainly confined to the small ship size category. Therefore, there is a portion of the eligible fleet without a port State Control inspection record in Equasis.

A significant portion of this "without inspection record" fleet, particularly those in the very large, large and medium sized ship category, may potentially be trading in the waters of these PSC regimes or are trading using ports in these areas. The inspection figures show the proportion of the fleet which have been inspected by one of the seven PSC regimes in the last three years. Therefore the proportion of fleet that have not been inspected can be calculated. The figures are sorted by ship size and PSC type with details per age ranges, flag State and P&I coverage.

## RECOGNISED ORGANISATIONS

Information on "Recognised Organisations" is also included in this chapter based on the statutory certificates recorded at the time of inspection. Recognised Organisations are Class Societies working on behalf of a flag state that survey ships under their flag and certify that they comply with the relevant international conventions. Information on statutory certificates is provided by the following PSC regimes to Equasis: Paris MoU, Indian Ocean MoU, USCG, Viña del Mar, Mediterranean MoU and Caribbean MoU.

Table 144 provides the total number of inspections in which a statutory certificate has been recorded by the Port State Control Officer (PSCO) for each type of certificate. It also specifies the number of inspections where this certificate has been recorded by the PSCO by issuer (flag State or RO).

Please note that during an inspection several certificates are usually checked and recorded but no checklist is followed. Moreover depending of the ship type certain certificates may not be applicable. Additionally a "group" of certificates in the table may refer to more than one certificate and each certificate may be issued by different authorities. For these reasons,

total figures cannot be easily deducted by summing lines or columns in Table 144.

The list of certificates by group is given in Annex IV. The group "Other" covers all unlisted certificates.

## RESULTS

Table 116 reveals that of the 57,654 ships over 500GT in the fleet covered by Equasis, 59% (34,222) were inspected at least once in the period 2014-2016. This equates to 85% by tonnage.

Table 113 shows that the number of individual ships inspected has remained steady in comparison to last year to the total of 30,337 inspections.

Table 114 and Graph 105 shows a significant number of inspections to ships occurs only once, with the exception of the Tokyo MoU region wherein the number of multiple inspections is more predominant. Furthermore, the introduction of the New Inspection Regime in Paris MoU and Tokyo MoU, also led to an approximation of the total number of inspections between Paris MoU and Tokyo MoU (Graph 105). The new inspection regime targets ships according a ship risk profile, which takes into account the flag of the ship, type, age, recognised organisation, company performance and historical information on deficiencies and detentions.

Table 115 shows a relevant proportion of ships that were inspected by two and three PSC regimes, with a steep downwards trend as the number of PSC regimes increases, with Bulk Carriers and Passenger Ships being more likely to be inspected between five and six PSC regions.

Table 111 shows that the majority of ships without an inspection record are in the small sized ship category (96%).

By age, Table 116 shows that oldest ships (31% inspected) have been subjected to fewer inspections than the newer ships (57% inspected). Additionally ships with IG P&I coverage (Table 124) have also been subjected to more inspections. A possible explanation is the fact that the majority of ships is covered by IGP&I clubs (79%) and

are operating in PSC regions for which Equasis has PSC data.

Table 132 shows that ships with targeted flag States are subjected to more inspections than those of non-targeted flag States.

Table 140 shows that the majority of statutory certificates are issued by Recognised Organisations of IACS. In 87% of inspections of ships over 500GT a statutory certificate has been found to be issued by a Recognised Organisation member of IACS.

Table 144 shows that the involvement of flag States differs greatly depending on the statutory certificates. The Minimum Safe Manning Document (SOLAS/STCW), the Continuous Synopsis Record (SOLAS/CSR), Certificate of Insurance for Oil Prevention (SOLAS/CLC), and the Bunkering Certificate are the statutory certificates that are, in majority, issued by the flag State. Recognised Organisations are also more involved in issuing the ISPS (that ensures security on ships) and MLC (Maritime Labour Convention), in particular by IACS members.

## 5.1. PORT STATE CONTROL OVERVIEW

## OVERVIEW OF INSPECTED SHIPS IN ALL PSC REGIONS (2014-2016)

Table 111 - The world fleet in Equasis, by PSC type and size (GT≥100)

PSC Ship Type	Small			Medium			Large			Very Large			All Sizes		
	Global	Inspected		Global	Inspected		Global	Inspected		Global	Inspected		Global	Inspected	
General cargo/Multipurpose	5,305	146	2.8%	12,369	6,788	54.9%	419	406	96.9%	19	19	100.0%	18,112	7,359	40.6%
Refrigerated Cargo	590	32	5.4%	954	598	62.7%	4	1	25.0%				1,548	631	40.8%
Heavy load	1		0.0%	68	53	77.9%	38	34	89.5%	5	2	40.0%	112	89	79.5%
Container	18		0.0%	2,124	1,683	79.2%	1,471	1,403	95.4%	1,316	1,273	96.7%	4,929	4,359	88.4%
Ro-Ro cargo	40	12	30.0%	574	335	58.4%	490	483	98.6%	193	189	97.9%	1,297	1,019	78.6%
Bulk Carrier	3		0.0%	2,918	2,451	84.0%	5,603	4,970	88.7%	1,676	1,582	94.4%	10,200	9,003	88.3%
Oil tanker	1,799	38	2.1%	4,124	1,028	24.9%	1,505	1,282	85.2%	1,727	1,402	81.2%	9,155	3,750	41.0%
Chemical tanker	455	10	2.2%	3,247	2,255	69.4%	1,054	913	86.6%	1	1	100.0%	4,757	3,179	66.8%
Combination carrier	1	1	100.0%	18	16	88.9%	6	6	100.0%	6	6	100.0%	31	29	93.5%
Gas carrier	38		0.0%	1,098	665	60.6%	292	233	79.8%	413	318	77.0%	1,841	1,216	66.1%
NLS Tanker	3	1	33.3%	147	140	95.2%	125	125	100.0%	97	97	100.0%	372	363	97.6%
High speed passenger craft	34	34	100.0%	44	44	100.0%							78	78	100.0%
Passenger Ship	3,026	106	3.5%	730	147	20.1%	68	66	97.1%	167	161	96.4%	3,991	480	12.0%
RoRo passenger ship	795	10	1.3%	1,896	203	10.7%	204	165	80.9%	4	4	100.0%	2,899	382	13.2%
Offshore supply	2,380	83	3.5%	4,848	1,015	20.9%	11	1	9.1%	3	2	66.7%	7,242	1,101	15.2%
Special purpose ship	518	42	8.1%	559	174	31.1%	12	7	58.3%	2		0.0%	1,091	223	20.4%
Tug	17,098	686	4.0%	1,054	202	19.2%							18,152	888	4.9%
Other special activities	2,972	340	11.4%	2,840	789	27.8%	213	143	67.1%	160	20	12.5%	6,185	1,292	20.9%
Other	474	16	3.4%	608	213	35.0%	103	95	92.2%	27	15	55.6%	1,212	339	28.0%
<b>Total</b>	<b>35,550</b>	<b>1,557</b>	<b>4%</b>	<b>40,220</b>	<b>18,799</b>	<b>47%</b>	<b>11,618</b>	<b>10,333</b>	<b>89%</b>	<b>5,816</b>	<b>5,091</b>	<b>88%</b>	<b>93,204</b>	<b>35,780</b>	<b>38%</b>

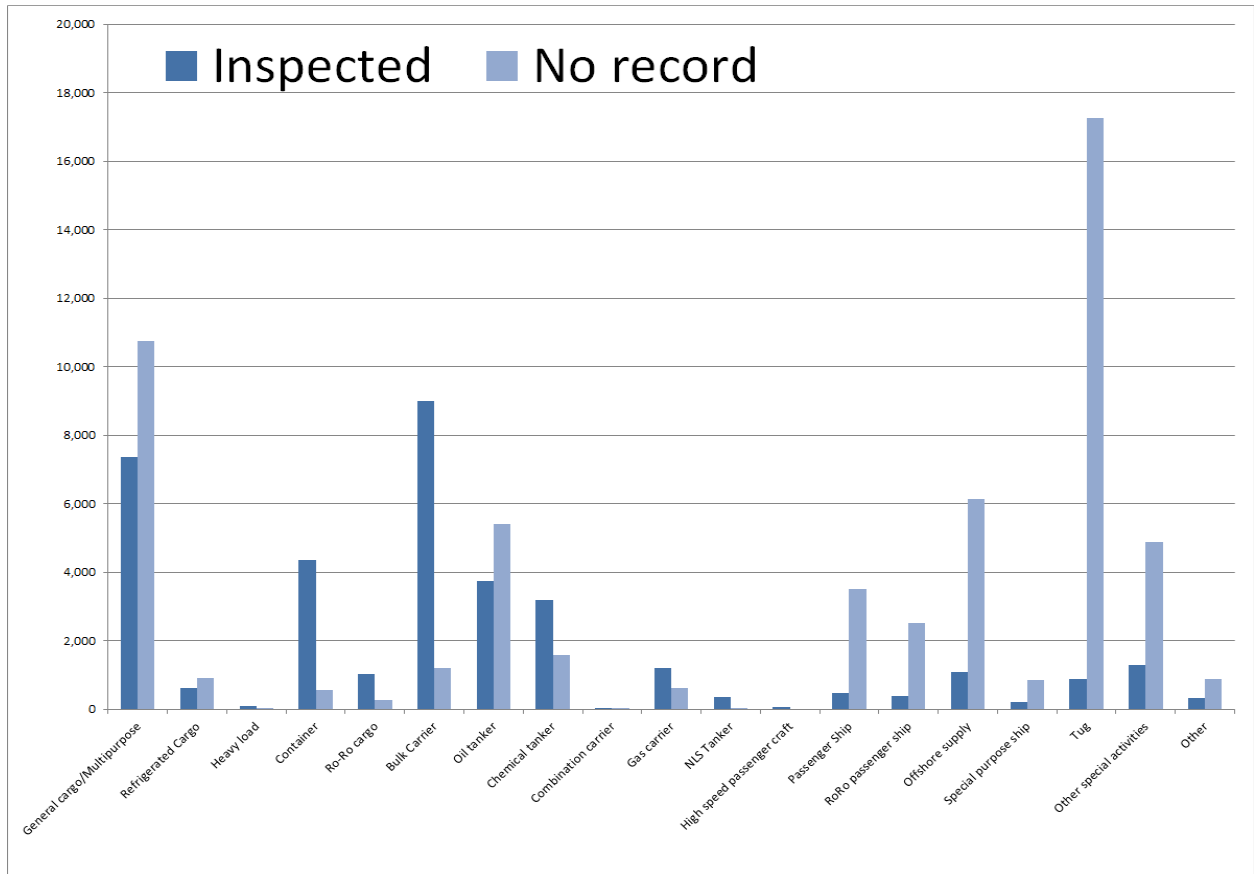
Source: Equasis <sup>(1)</sup> GT<500 - <sup>(2)</sup> 500≤GT<25.000 - <sup>(3)</sup> 25.000≤GT<60.000 - <sup>(4)</sup> GT≥60.000

Table 112 - Gross tonnage (in 1000 gt) of the world fleet in Equasis, by PSC type and size

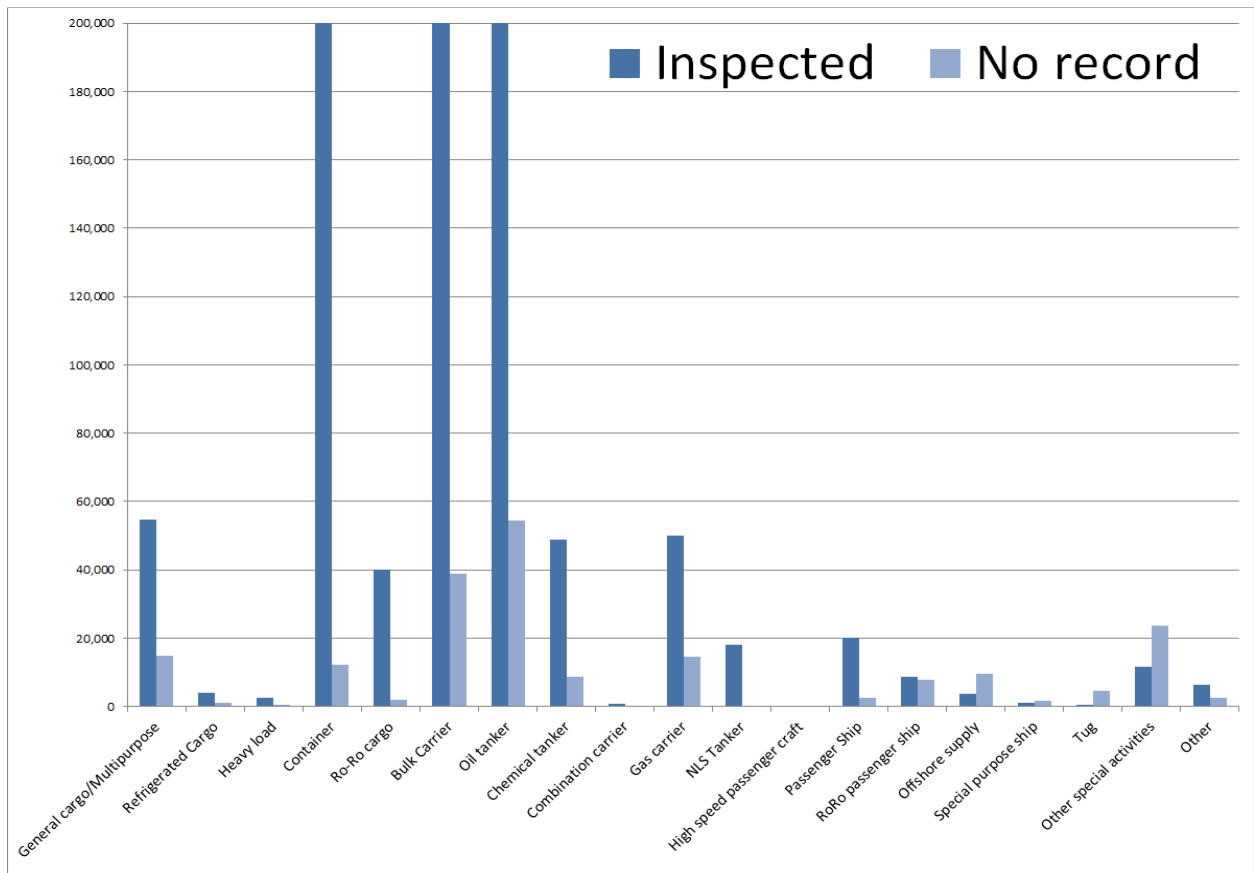
PSC Ship Type	Small			Medium			Large			Very Large			All Sizes		
	Global	Inspected		Global	Inspected		Global	Inspected		Global	Inspected		Global	Inspected	
General cargo/Multipurpose	1,805	53	2.9%	51,953	39,156	75.4%	14,620	14,201	97.1%	1,417	1,417	100.0%	69,795	54,827	78.6%
Refrigerated Cargo	148	10	6.8%	4,647	3,865	83.2%	147	33	22.4%				4,942	3,908	79.1%
Heavy load				854	684	80.1%	1,421	1,242	87.4%	707	495	70.0%	2,982	2,421	81.2%
Container	7		0.0%	24,697	21,135	85.6%	56,439	53,961	95.6%	136,050	129,884	95.5%	217,193	204,980	94.4%
Ro-Ro cargo	14	5	35.7%	5,469	3,951	72.2%	23,612	23,387	99.0%	12,928	12,596	97.4%	42,023	39,939	95.0%
Bulk Carrier	1		0.0%	51,448	44,463	86.4%	207,058	184,805	89.3%	166,860	157,071	94.1%	425,367	386,339	90.8%
Oil tanker	546	13	2.4%	15,933	7,136	44.8%	61,666	52,845	85.7%	186,031	149,879	80.6%	264,176	209,873	79.4%
Chemical tanker	168	3	1.8%	26,199	21,895	83.6%	31,020	26,813	86.4%	162	162	100.0%	57,549	48,873	84.9%
Combination carrier				164	139	84.8%	205	205	100.0%	396	396	100.0%	765	740	96.7%
Gas carrier	14		0.0%	6,853	5,168	75.4%	12,776	10,383	81.3%	45,230	34,620	76.5%	64,873	50,171	77.3%
NLS Tanker	1		0.0%	1,426	1,417	99.4%	4,990	4,990	100.0%	11,604	11,604	100.0%	18,021	18,011	99.9%
High speed passenger craft	8	8	100.0%	188	188	100.0%							196	196	100.0%
Passenger Ship	734	30	4.1%	2,191	1,175	53.6%	2,692	2,603	96.7%	17,133	16,345	95.4%	22,750	20,153	88.6%
RoRo passenger ship	242	3	1.2%	8,891	2,612	29.4%	7,049	5,785	82.1%	278	278	100.0%	16,460	8,678	52.7%
Offshore supply	678	23	3.4%	11,899	3,478	29.2%	435	56	12.9%	232	172	74.1%	13,244	3,729	28.2%
Special purpose ship	135	10	7.4%	2,142	995	46.5%	443	236	53.3%	212		0.0%	2,932	1,241	42.3%
Tug	4,077	212	5.2%	1,142	358	31.3%							5,219	570	10.9%
Other special activities	719	99	13.8%	8,900	3,688	41.4%	9,386	6,044	64.4%	16,240	1,769	10.9%	35,245	11,600	32.9%
Other	137	6	4.4%	2,743	1,360	49.6%	4,283	3,951	92.2%	1,807	970	53.7%	8,970	6,287	70.1%
<b>Total</b>	<b>9,434</b>	<b>475</b>	<b>5%</b>	<b>227,739</b>	<b>162,863</b>	<b>72%</b>	<b>438,242</b>	<b>391,540</b>	<b>89%</b>	<b>597,287</b>	<b>517,658</b>	<b>87%</b>	<b>1,272,702</b>	<b>1,072,536</b>	<b>84%</b>

Source: Equasis <sup>(1)</sup> GT<500 - <sup>(2)</sup> 500≤GT<25.000 - <sup>(3)</sup> 25.000≤GT<60.000 - <sup>(4)</sup> GT≥60.000

**Graph 102 -Total number of inspected ships (all sizes), by PSC type**



**Graph 103 -Gross tonnage (in 1000 gt) of inspected ships (all sizes), by PSC type**



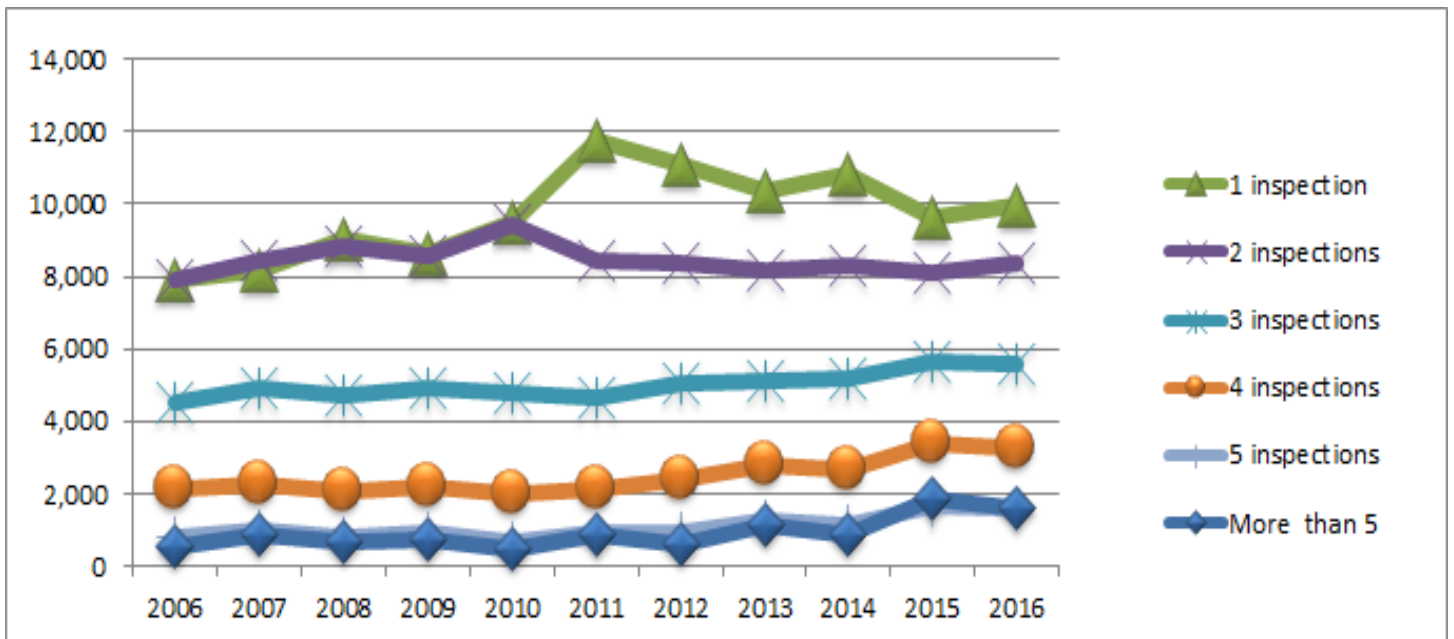
MULTIPLE INSPECTIONS (2005-2016)

**Table 113 - Total number of individual ships inspected<sup>(\*)</sup>, by number of inspections per ship – 2006-2016**

Number of inspections per ship	Number of ships inspected																					
	2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016	
1	7,913	33.2%	8,166	31.9%	9,005	34.6%	8,637	33.2%	9,527	35.5%	11,783	40.8%	11,082	38.9%	10,351	35.9%	10,844	37.4%	9,658	31.8%	9,947	32.8%
2	7,898	33.1%	8,415	32.8%	8,818	33.9%	8,571	33.0%	9,413	35.1%	8,438	29.3%	8,380	29.4%	8,152	28.3%	8,307	28.6%	8,122	26.7%	8,353	27.5%
3	4,529	19.0%	4,939	19.3%	4,687	18.0%	4,949	19.0%	4,781	17.8%	4,670	16.2%	5,021	17.6%	5,102	17.7%	5,200	17.9%	5,642	18.6%	5,573	18.4%
4	2,127	8.9%	2,287	8.9%	2,041	7.8%	2,172	8.4%	1,969	7.3%	2,133	7.4%	2,409	8.5%	2,783	9.7%	2,648	9.1%	3,407	11.2%	3,252	10.7%
5	830	3.5%	972	3.8%	795	3.1%	934	3.6%	672	2.5%	936	3.2%	950	3.3%	1,284	4.5%	1,155	4.0%	1,689	5.6%	1,590	5.2%
More than 5	552	2.3%	859	3.4%	671	2.6%	724	2.8%	493	1.8%	887	3.1%	631	2.2%	1,149	4.0%	865	3.0%	1,847	6.1%	1,622	5.3%
<b>Total</b>	<b>23,849</b>	<b>100%</b>	<b>25,638</b>	<b>100%</b>	<b>26,017</b>	<b>100%</b>	<b>25,987</b>	<b>100%</b>	<b>26,855</b>	<b>100%</b>	<b>28,847</b>	<b>100%</b>	<b>28,473</b>	<b>100%</b>	<b>28,821</b>	<b>100%</b>	<b>29,019</b>	<b>100%</b>	<b>30,365</b>	<b>100%</b>	<b>30,337</b>	<b>100%</b>

Source: Equasis – Paris MoU, Tokyo MoU, IO MoU, USCG, VDM, Med MoU- (\*) Existing ship types in Equasis

**Graph 104 -Total number of individual ships inspected<sup>(\*)</sup>, by number of inspections per ship – 2006-2016**



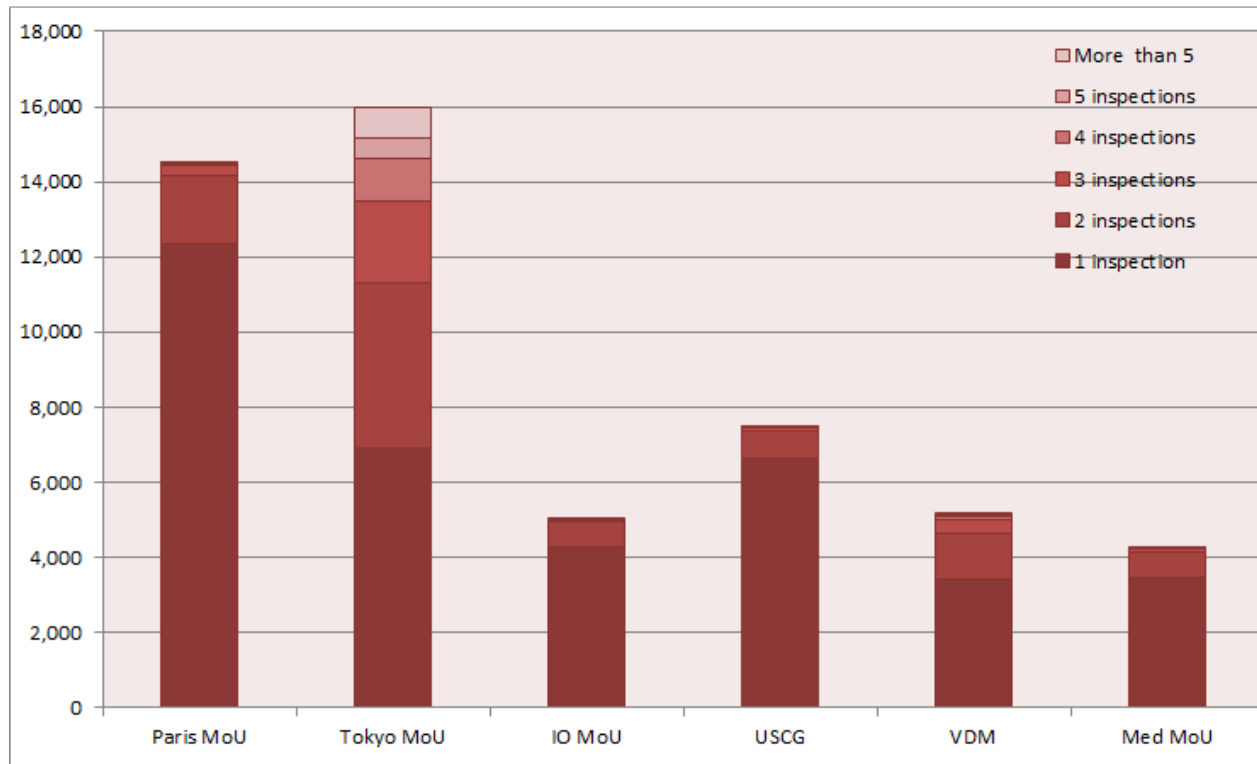
(\*) Existing ship types in Equasis

## INSPECTION FREQUENCY BY PSC REGIONS (2016)

Table 114 - Total number of individual ships inspected<sup>(\*)</sup>, by number of inspection per ship and by PSC region - 2016

Number of inspections per ship	Number of individual ships inspected														Overall inspections	
	PMoU		TMoU		IOMoU		USCG		VdMoU		MedMoU		CMoU			
1	12,372	85.3%	6,922	43.3%	4,298	85.9%	6,616	88.7%	3,396	66.2%	3,477	81.8%	573	91.5%	10,844	37.4%
2	1,788	12.3%	4,387	27.5%	673	13.4%	726	9.7%	1,252	24.4%	655	15.4%	51	8.1%	8,307	28.6%
3	278	1.9%	2,187	13.7%	33	0.7%	89	1.2%	342	6.7%	106	2.5%	2	0.3%	5,200	17.9%
4	53	0.4%	1,107	6.9%	2	0.0%	22	0.3%	92	1.8%	13	0.3%			2,648	9.1%
5	8	0.1%	539	3.4%			2	0.0%	35	0.7%	2	0.0%			1,155	4.0%
More than 5	2	0.0%	833	5.2%			0	0.0%	13	0.3%					865	3.0%
<b>Total</b>	<b>14,501</b>	<b>100%</b>	<b>15,975</b>	<b>100%</b>	<b>5,006</b>	<b>100%</b>	<b>7,455</b>	<b>100%</b>	<b>5,130</b>	<b>100%</b>	<b>4,253</b>	<b>100%</b>	<b>626</b>	<b>100%</b>	<b>29,019</b>	<b>100%</b>

Source: Equasis - Paris MoU, Tokyo MoU, IO MoU, US Coast Guard, VDM, Med MoU, Caribbean MoU- <sup>(\*)</sup> All existing ship types in Equasis

Graph 105 -Total number of individual ships inspected<sup>(\*)</sup>, by number of inspection per ship and PSC region - 2016

<sup>(\*)</sup> All existing ship types in Equasis

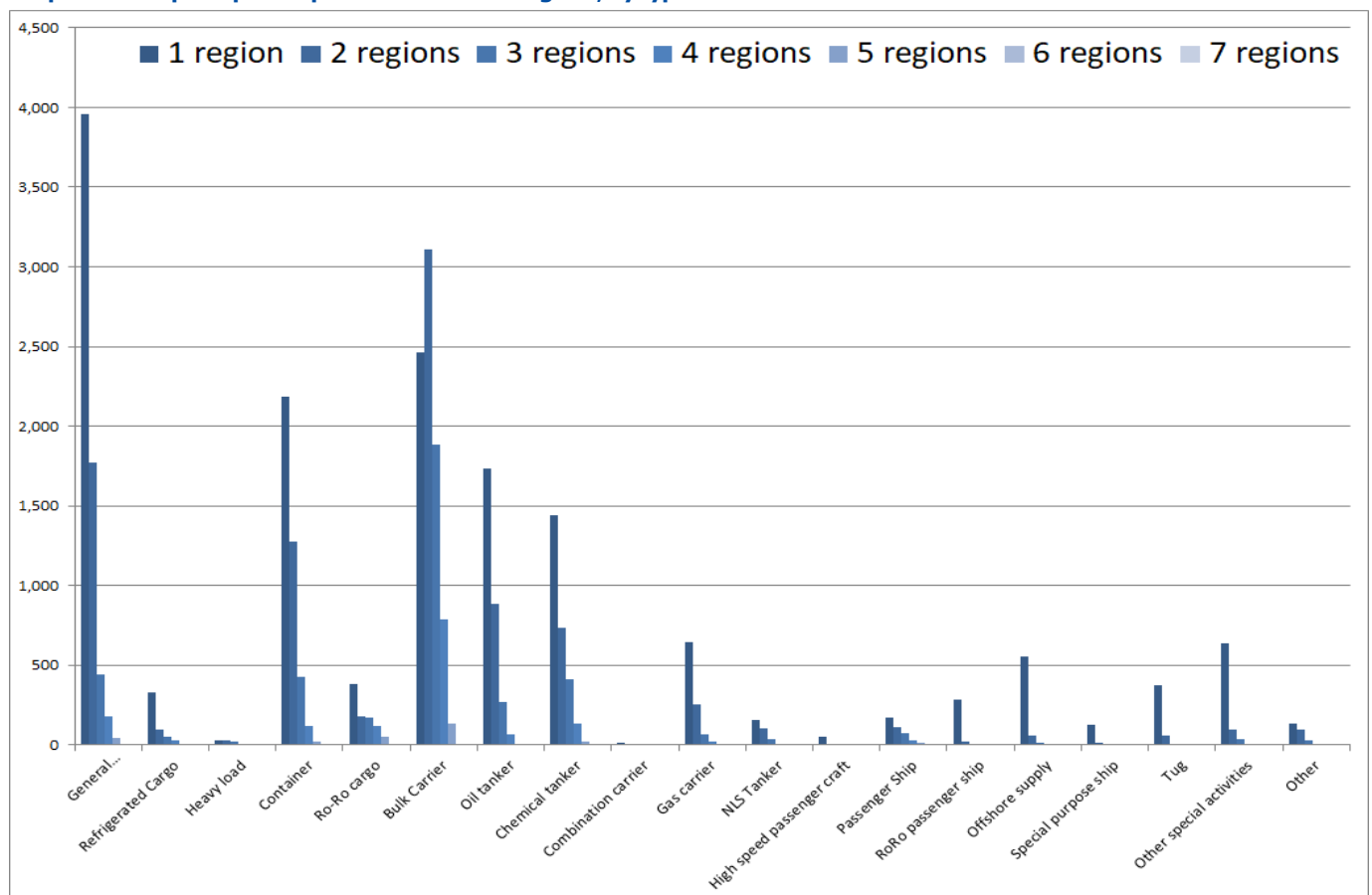
## INSPECTIONS IN MORE THAN ONE REGION (2016)

Table 115 - Total number of individual ships inspected per number of PSC regions

Ship Type	Number of ships inspected													
	1 Region		2 Regions		3 Regions		4 Regions		5 Regions		6 Regions		7 Regions	
General cargo/Multipurpose	3,960	25.3%	1,770	19.9%	442	11.2%	181	12.1%	47	15.4%	3	10.7%		
Refrigerated Cargo	327	2.1%	96	1.1%	49	1.2%	27	1.8%	9	2.9%	1	3.6%		
Heavy load	30	0.2%	30	0.3%	19	0.5%	2	0.1%						
Container	2,186	13.9%	1,278	14.4%	424	10.8%	118	7.9%	18	5.9%	2	7.1%		
Ro-Ro cargo	382	2.4%	181	2.0%	174	4.4%	121	8.1%	48	15.7%	5	17.9%		
Bulk Carrier	2,466	15.7%	3,105	34.9%	1,885	47.9%	785	52.5%	133	43.5%	9	32.1%		
Oil tanker	1,736	11.1%	884	9.9%	272	6.9%	64	4.3%	4	1.3%				
Chemical tanker	1,443	9.2%	734	8.3%	412	10.5%	133	8.9%	23	7.5%				
Combination carrier	11	0.1%	2	0.0%	4	0.1%	1	0.1%	1	0.3%				
Gas carrier	643	4.1%	251	2.8%	66	1.7%	18	1.2%	2	0.7%				
NLS Tanker	157	1.0%	103	1.2%	34	0.9%	3	0.2%	1	0.3%				
High speed passenger craft	52	0.3%	4	0.0%	1	0.0%								
Passenger Ship	173	1.1%	110	1.2%	70	1.8%	32	2.1%	17	5.6%	8	28.6%		
RoRo passenger ship	286	1.8%	23	0.3%	1	0.0%								
Offshore supply	557	3.6%	56	0.6%	11	0.3%	1	0.1%						
Special purpose ship	124	0.8%	15	0.2%	1	0.0%								
Tug	374	2.4%	58	0.7%	2	0.1%								
Other special activities	639	4.1%	99	1.1%	33	0.8%	4	0.3%						
Other	134	0.9%	97	1.1%	32	0.8%	5	0.3%	3					
<b>Total</b>	<b>15,680</b>	<b>100%</b>	<b>8,896</b>	<b>100%</b>	<b>3,932</b>	<b>100%</b>	<b>1,495</b>	<b>100%</b>	<b>306</b>	<b>99%</b>	<b>28</b>	<b>100%</b>	<b>0</b>	<b>0%</b>

Source: Equasis – Paris MoU, Tokyo MoU, IO MoU, USCG, VDM, Med MoU, Caribbean MoU

Graph 106 -Ships inspected per number of PSC regions, by type





## 5.2. SHIPS INSPECTED BETWEEN 2014 AND 2016 – BY AGE

## WHOLE FLEET GT≥500

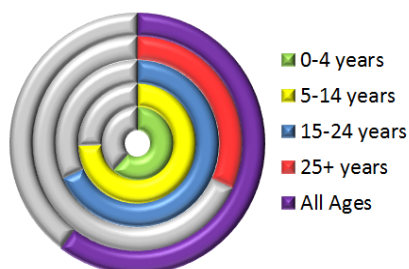
Table 116 - Total number of ships GT≥500 with and without inspections, by PSC type and age

PSC Ship Type	0-4 years			5-14 years			15-24 years			25+ years			All Ages		
	Global	Inspected		Global	Inspected		Global	Inspected		Global	Inspected		Global	Inspected	
General cargo/Multipurpose	1,103	493	44.7%	4,138	2,827	68.3%	2,336	1,676	71.7%	5,230	2,217	42.4%	12,807	7,213	56.3%
Refrigerated Cargo	27	7	25.9%	39	36	92.3%	210	180	85.7%	682	376	55.1%	958	599	62.5%
Heavy load	28	16	57.1%	39	33	84.6%	15	14	93.3%	29	26	89.7%	111	89	80.2%
Container	849	680	80.1%	2,625	2,497	95.1%	1,237	1,084	87.6%	200	98	49.0%	4,911	4,359	88.8%
Ro-Ro cargo	130	105	80.8%	527	489	92.8%	305	248	81.3%	295	165	55.9%	1,257	1,007	80.1%
Bulk Carrier	2,760	2,177	78.9%	5,576	5,244	94.0%	1,455	1,381	94.9%	406	201	49.5%	10,197	9,003	88.3%
Oil tanker	1,022	397	38.8%	3,212	2,406	74.9%	1,273	691	54.3%	1,849	218	11.8%	7,356	3,712	50.5%
Chemical tanker	731	522	71.4%	2,321	1,968	84.8%	723	544	75.2%	527	135	25.6%	4,302	3,169	73.7%
Combination carrier	1	1	100.0%	14	14	100.0%	9	9	100.0%	6	4	66.7%	30	28	93.3%
Gas carrier	423	282	66.7%	688	572	83.1%	366	249	68.0%	326	113	34.7%	1,803	1,216	67.4%
NLS Tanker	76	76	100.0%	196	196	100.0%	77	77	100.0%	20	13	65.0%	369	362	98.1%
High speed passenger craft	2	2	100.0%	9	9	100.0%	31	31	100.0%	2	2	100.0%	44	44	100.0%
Passenger Ship	62	33	53.2%	226	102	45.1%	280	109	38.9%	397	130	32.7%	965	374	38.8%
RoRo passenger ship	233	19	8.2%	448	88	19.6%	461	117	25.4%	962	148	15.4%	2,104	372	17.7%
Offshore supply	1,066	265	24.9%	2,120	446	21.0%	422	116	27.5%	1,254	191	15.2%	4,862	1,017	20.9%
Special purpose ship	63	31	49.2%	107	48	44.9%	74	32	43.2%	329	70	21.3%	573	181	31.6%
Tug	139	33	23.7%	347	110	31.7%	104	15	14.4%	464	44	9.5%	1,054	202	19.2%
Other special activities	537	150	27.9%	842	365	43.3%	440	144	32.7%	1,394	293	21.0%	3,213	952	29.6%
Other	89	26	29.2%	197	104	52.8%	131	76	58.0%	321	117	36.4%	738	323	43.8%
<b>Total</b>	<b>9,341</b>	<b>5,315</b>	<b>57%</b>	<b>23,671</b>	<b>17,554</b>	<b>74%</b>	<b>9,949</b>	<b>6,793</b>	<b>68%</b>	<b>14,693</b>	<b>4,561</b>	<b>31%</b>	<b>57,654</b>	<b>34,222</b>	<b>59%</b>

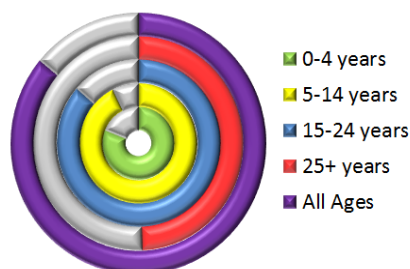
Table 117 - Gross tonnage (in 1000 gt) of ships GT≥500 with and without inspections, by PSC type and age

PSC Ship Type	0-4 years			5-14 years			15-24 years			25+ years			All Ages		
	Global	Inspected		Global	Inspected		Global	Inspected		Global	Inspected		Global	Inspected	
General cargo/Multipurpose	10,861	8,743	80.5%	28,996	26,029	89.8%	13,350	11,672	87.4%	14,782	8,328	56.3%	67,989	54,772	80.6%
Refrigerated Cargo	142	54	38.0%	346	336	97.1%	1,500	1,437	95.8%	2,807	2,071	73.8%	4,795	3,898	81.3%
Heavy load	1,213	803	66.2%	653	587	89.9%	234	189	80.8%	882	842	95.5%	2,982	2,421	81.2%
Container	64,169	56,045	87.3%	118,098	116,625	98.8%	31,803	30,288	95.2%	3,117	2,024	64.9%	217,187	204,982	94.4%
Ro-Ro cargo	6,633	6,100	92.0%	23,771	23,294	98.0%	8,497	8,138	95.8%	3,107	2,402	77.3%	42,008	39,934	95.1%
Bulk Carrier	124,326	98,526	79.2%	238,398	231,402	97.1%	52,396	50,325	96.0%	10,248	6,086	59.4%	425,368	386,339	90.8%
Oil tanker	47,792	25,297	52.9%	154,690	139,933	90.5%	53,458	43,334	81.1%	7,688	1,295	16.8%	263,628	209,859	79.6%
Chemical tanker	14,941	11,693	78.3%	32,699	29,969	91.7%	7,822	6,518	83.3%	1,919	690	36.0%	57,381	48,870	85.2%
Combination carrier	52	52	100.0%	337	337	100.0%	292	292	100.0%	84	59	70.2%	765	740	96.7%
Gas carrier	19,695	13,079	66.4%	32,182	28,916	89.9%	9,314	6,031	64.8%	3,666	2,144	58.5%	64,857	50,170	77.4%
NLS Tanker	4,447	4,447	100.0%	9,139	9,139	100.0%	4,283	4,283	100.0%	151	142	94.0%	18,020	18,011	100.0%
High speed passenger craft	2	2	100.0%	45	45	100.0%	136	136	100.0%	6	6	100.0%	189	189	100.0%
Passenger Ship	3,876	3,040	78.4%	8,571	8,348	97.4%	6,633	6,317	95.2%	2,937	2,419	82.4%	22,017	20,124	91.4%
RoRo passenger ship	1,393	312	22.4%	4,682	2,634	56.3%	4,875	3,006	61.7%	5,267	2,724	51.7%	16,217	8,676	53.5%
Offshore supply	4,176	1,184	28.4%	5,550	1,681	30.3%	978	357	36.5%	1,862	485	26.0%	12,566	3,651	29.1%
Special purpose ship	456	322	70.6%	689	420	61.0%	461	178	38.6%	1,191	312	26.2%	2,797	1,232	44.0%
Tug	175	73	41.7%	453	208	45.9%	104	29	27.9%	410	48	11.7%	1,142	358	31.3%
Other special activities	9,111	3,737	41.0%	8,937	4,268	47.8%	5,662	1,972	34.8%	10,813	1,525	14.1%	34,523	11,502	33.3%
Other	1,856	566	30.5%	3,463	2,917	84.2%	1,904	1,744	91.6%	1,610	1,053	65.4%	8,833	6,280	71.1%
<b>Total</b>	<b>315,316</b>	<b>234,075</b>	<b>74%</b>	<b>671,699</b>	<b>627,088</b>	<b>93%</b>	<b>203,702</b>	<b>176,246</b>	<b>87%</b>	<b>72,547</b>	<b>34,655</b>	<b>48%</b>	<b>1,263,264</b>	<b>1,072,008</b>	<b>85%</b>

Graph 107 - Proportion of inspected ships GT≥500, by age



Graph 108 - Proportion of gross tonnage inspected ships GT≥500, by age



## MEDIUM SIZED SHIPS

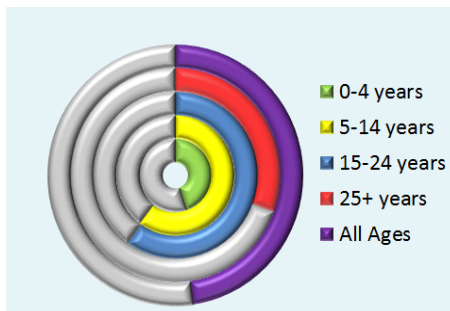
Table 118 - Total number of medium sized ships with and without inspections, by PSC type and age

PSC Ship Type	0-4 years			5-14 years			15-24 years			25+ years			All Ages		
	Global	Inspected		Global	Inspected		Global	Inspected		Global	Inspected		Global	Inspected	
General cargo/Multipurpose	966	365	37.8%	3,974	2,663	67.0%	2,240	1,582	70.6%	5,189	2,178	42.0%	12,369	6,788	54.9%
Refrigerated Cargo	27	7	25.9%	39	36	92.3%	209	179	85.6%	679	376	55.4%	954	598	62.7%
Heavy load	17	10	58.8%	32	26	81.3%	12	12	100.0%	7	5	71.4%	68	53	77.9%
Container	229	134	58.5%	962	853	88.7%	776	627	80.8%	157	69	43.9%	2,124	1,683	79.2%
Ro-Ro cargo	29	10	34.5%	100	66	66.0%	178	121	68.0%	267	138	51.7%	574	335	58.4%
Bulk Carrier	586	489	83.4%	1,585	1,375	86.8%	455	438	96.3%	292	149	51.0%	2,918	2,451	84.0%
Oil tanker	503	110	21.9%	1,190	533	44.8%	659	184	27.9%	1,772	201	11.3%	4,124	1,028	24.9%
Chemical tanker	364	233	64.0%	1,734	1,423	82.1%	627	466	74.3%	522	133	25.5%	3,247	2,255	69.4%
Combination carrier				8	8	100.0%	5	5	100.0%	5	3	60.0%	18	16	88.9%
Gas carrier	184	125	67.9%	362	274	75.7%	270	181	67.0%	282	85	30.1%	1,098	665	60.6%
NLS Tanker	12	12	100.0%	84	84	100.0%	33	33	100.0%	18	11	61.1%	147	140	95.2%
High speed passenger craft	2	2	100.0%	9	9	100.0%	31	31	100.0%	2	2	100.0%	44	44	100.0%
Passenger Ship	30	8	26.7%	143	20	14.0%	195	24	12.3%	362	95	26.2%	730	147	20.1%
RoRo passenger ship	224	14	6.3%	373	29	7.8%	384	54	14.1%	915	106	11.6%	1,896	203	10.7%
Offshore supply	1,061	265	25.0%	2,116	445	21.0%	421	116	27.6%	1,250	189	15.1%	4,848	1,015	20.9%
Special purpose ship	60	28	46.7%	102	45	44.1%	73	32	43.8%	324	69	21.3%	559	174	31.1%
Tug	139	33	23.7%	347	110	31.7%	104	15	14.4%	464	44	9.5%	1,054	202	19.2%
Other special activities	428	93	21.7%	727	302	41.5%	378	116	30.7%	1,307	278	21.3%	2,840	789	27.8%
Other	66	19	28.8%	140	48	34.3%	97	43	44.3%	305	103	33.8%	608	213	35.0%
<b>Total</b>	<b>4,927</b>	<b>1,957</b>	<b>40%</b>	<b>14,027</b>	<b>8,349</b>	<b>60%</b>	<b>7,147</b>	<b>4,259</b>	<b>60%</b>	<b>14,119</b>	<b>4,234</b>	<b>30%</b>	<b>40,220</b>	<b>18,799</b>	<b>47%</b>

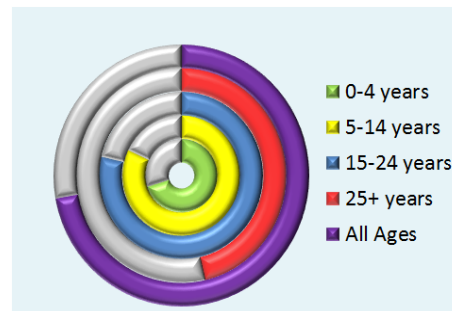
Table 119 - Gross tonnage (in 1000 gt) of medium sized ships with and without inspections, by PSC type and age

PSC Ship Type	0-4 years			5-14 years			15-24 years			25+ years			All Ages		
	Global	Inspected		Global	Inspected		Global	Inspected		Global	Inspected		Global	Inspected	
General cargo/Multipurpose	5,876	4,051	68.9%	22,454	19,487	86.8%	10,134	8,512	84.0%	13,489	7,105	52.7%	51,953	39,155	75.4%
Refrigerated Cargo	142	54	38.0%	346	336	97.1%	1,467	1,404	95.7%	2,693	2,071	76.9%	4,648	3,865	83.2%
Heavy load	237	147	62.0%	407	341	83.8%	112	112	100.0%	98	85	86.7%	854	685	80.2%
Container	2,859	1,950	68.2%	11,247	10,609	94.3%	9,084	7,711	84.9%	1,508	866	57.4%	24,698	21,136	85.6%
Ro-Ro cargo	327	132	40.4%	1,256	969	77.1%	1,989	1,630	82.0%	1,897	1,220	64.3%	5,469	3,951	72.2%
Bulk Carrier	12,603	10,756	85.3%	27,273	24,361	89.3%	7,363	7,185	97.6%	4,210	2,160	51.3%	51,449	44,462	86.4%
Oil tanker	1,721	672	39.0%	6,573	4,245	64.6%	3,336	1,648	49.4%	4,302	570	13.2%	15,932	7,135	44.8%
Chemical tanker	3,965	3,077	77.6%	15,378	13,892	90.3%	5,098	4,308	84.5%	1,759	617	35.1%	26,200	21,894	83.6%
Combination carrier				76	76	100.0%	38	38	100.0%	50	25	50.0%	164	139	84.8%
Gas carrier	1,725	1,223	70.9%	2,679	2,353	87.8%	1,542	1,209	78.4%	907	383	42.2%	6,853	5,168	75.4%
NLS Tanker	135	135	100.0%	919	919	100.0%	301	301	100.0%	71	62	87.3%	1,426	1,417	99.4%
High speed passenger craft	2	2	100.0%	45	45	100.0%	136	136	100.0%	6	6	100.0%	189	189	100.0%
Passenger Ship	75	34	45.3%	229	87	38.0%	585	269	46.0%	1,303	785	60.2%	2,192	1,175	53.6%
RoRo passenger ship	1,058	128	12.1%	1,867	326	17.5%	2,251	838	37.2%	3,715	1,321	35.6%	8,891	2,613	29.4%
Offshore supply	3,968	1,184	29.8%	5,338	1,598	29.9%	944	357	37.8%	1,649	340	20.6%	11,899	3,479	29.2%
Special purpose ship	354	220	62.1%	483	311	64.4%	314	178	56.7%	991	286	28.9%	2,142	995	46.5%
Tug	175	73	41.7%	453	208	45.9%	104	29	27.9%	410	48	11.7%	1,142	358	31.3%
Other special activities	1,688	631	37.4%	2,798	1,495	53.4%	1,431	712	49.8%	2,982	850	28.5%	8,899	3,688	41.4%
Other	372	128	34.4%	844	336	39.8%	491	356	72.5%	1,036	540	52.1%	2,743	1,360	49.6%
<b>Total</b>	<b>37,282</b>	<b>24,597</b>	<b>66%</b>	<b>100,665</b>	<b>81,994</b>	<b>81%</b>	<b>46,720</b>	<b>36,933</b>	<b>79%</b>	<b>43,076</b>	<b>19,340</b>	<b>45%</b>	<b>227,743</b>	<b>162,864</b>	<b>72%</b>

Graph 109 - Proportion of medium sized inspected ships, by age



Graph 110 - Proportion of gross tonnage for medium sized inspected ships, by age



## LARGE SHIPS

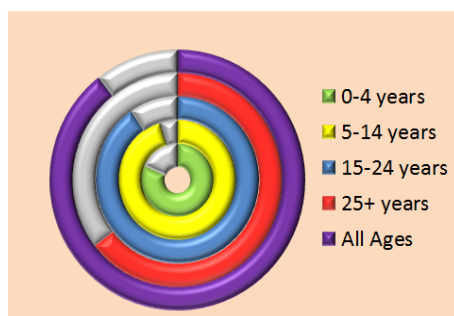
Table 120 - Total number of large ships with and without inspections, by PSC type and age

PSC Ship Type	0-4 years			5-14 years			15-24 years			25+ years			All Ages		
	Global	Inspected	%	Global	Inspected	%	Global	Inspected	%	Global	Inspected	%	Global	Inspected	%
General cargo/Multipurpose	133	124	93.2%	150	150	100.0%	95	93	97.9%	41	39	95.1%	419	406	96.9%
Refrigerated Cargo							1	1	100.0%	3		0.0%	4	1	25.0%
Heavy load	6	4	66.7%	7	7	100.0%	3	2	66.7%	22	21	95.5%	38	34	89.5%
Container	194	163	84.0%	940	921	98.0%	294	290	98.6%	43	29	67.4%	1,471	1,403	95.4%
Ro-Ro cargo	48	44	91.7%	305	303	99.3%	109	109	100.0%	28	27	96.4%	490	483	98.6%
Bulk Carrier	1,732	1,334	77.0%	2,943	2,824	96.0%	834	779	93.4%	94	33	35.1%	5,603	4,970	88.7%
Oil tanker	123	83	67.5%	1,013	942	93.0%	303	242	79.9%	66	15	22.7%	1,505	1,282	85.2%
Chemical tanker	367	289	78.7%	586	544	92.8%	96	78	81.3%	5	2	40.0%	1,054	913	86.6%
Combination carrier	1	1	100.0%	4	4	100.0%				1	1	100.0%	6	6	100.0%
Gas carrier	126	81	64.3%	102	99	97.1%	36	35	97.2%	28	18	64.3%	292	233	79.8%
NLS Tanker	40	40	100.0%	59	59	100.0%	24	24	100.0%	2	2	100.0%	125	125	100.0%
High speed passenger craft															
Passenger Ship	7	5	71.4%	8	8	100.0%	26	26	100.0%	27	27	100.0%	68	66	97.1%
RoRo passenger ship	9	5	55.6%	71	55	77.5%	77	63	81.8%	47	42	89.4%	204	165	80.9%
Offshore supply	4		0.0%	3		0.0%	1		0.0%	3	1	33.3%	11		0.0%
Special purpose ship	3	3	100.0%	5	3	60.0%				4	1	25.0%	12	7	58.3%
Tug															
Other special activities	61	43	70.5%	83	62	74.7%	38	26	68.4%	31	12	38.7%	213	143	67.1%
Other	6	2	33.3%	47	46	97.9%	34	33	97.1%	16	14	87.5%	103	95	92.2%
<b>Total</b>	<b>2,860</b>	<b>2,221</b>	<b>78%</b>	<b>6,326</b>	<b>6,027</b>	<b>95%</b>	<b>1,971</b>	<b>1,801</b>	<b>91%</b>	<b>461</b>	<b>284</b>	<b>62%</b>	<b>11,618</b>	<b>10,332</b>	<b>89%</b>

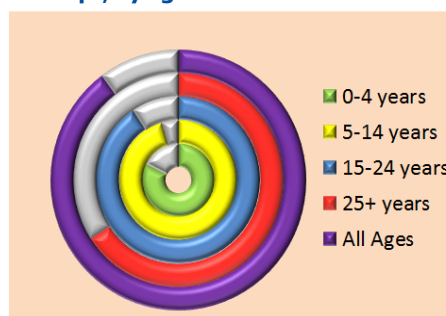
Table 121 - Gross tonnage (in 1000 gt) of large ships with and without inspections, by PSC type and age

PSC Ship Type	0-4 years			5-14 years			15-24 years			25+ years			All Ages		
	Global	Inspected	%	Global	Inspected	%	Global	Inspected	%	Global	Inspected	%	Global	Inspected	%
General cargo/Multipurpose	4,640	4,347	93.7%	5,531	5,531	100.0%	3,155	3,099	98.2%	1,293	1,223	94.6%	14,619	14,200	97.1%
Refrigerated Cargo							33	33	100.0%	114		0.0%	147	33	22.4%
Heavy load	269	161	59.9%	246	246	100.0%	122	77	63.1%	784	757	96.6%	1,421	1,241	87.3%
Container	7,627	6,578	86.2%	36,613	35,778	97.7%	10,590	10,448	98.7%	1,609	1,158	72.0%	56,439	53,962	95.6%
Ro-Ro cargo	2,452	2,315	94.4%	14,670	14,611	99.6%	5,279	5,279	100.0%	1,210	1,182	97.7%	23,611	23,387	99.1%
Bulk Carrier	65,534	50,972	77.8%	110,000	106,102	96.5%	28,165	26,424	93.8%	3,359	1,307	38.9%	207,058	184,805	89.3%
Oil tanker	4,723	3,124	66.1%	41,302	38,405	93.0%	13,283	10,752	80.9%	2,358	564	23.9%	61,666	52,845	85.7%
Chemical tanker	10,976	8,616	78.5%	17,159	15,915	92.8%	2,724	2,210	81.1%	160	73	45.6%	31,019	26,814	86.4%
Combination carrier	52	52	100.0%	119	119	100.0%				34	34	100.0%	205	205	100.0%
Gas carrier	5,469	3,652	66.8%	4,486	4,377	97.6%	1,588	1,546	97.4%	1,232	808	65.6%	12,775	10,383	81.3%
NLS Tanker	1,485	1,485	100.0%	2,317	2,317	100.0%	1,108	1,108	100.0%	80	80	100.0%	4,990	4,990	100.0%
High speed passenger craft															
Passenger Ship	324	236	72.8%	281	281	100.0%	1,020	1,020	100.0%	1,067	1,067	100.0%	2,692	2,604	96.7%
RoRo passenger ship	335	184	54.9%	2,537	2,030	80.0%	2,624	2,168	82.6%	1,552	1,403	90.4%	7,048	5,785	82.1%
Offshore supply	148		0.0%	129		0.0%	34		0.0%	124	56	45.2%	435		0.0%
Special purpose ship	102	102	100.0%	206	109	52.9%				136	26	19.1%	444	237	53.4%
Tug															
Other special activities	2,710	1,866	68.9%	3,823	2,713	71.0%	1,583	1,033	65.3%	1,269	433	34.1%	9,385	6,045	64.4%
Other	287	78	27.2%	2,009	1,971	98.1%	1,413	1,388	98.2%	574	513	89.4%	4,283	3,950	92.2%
<b>Total</b>	<b>107,133</b>	<b>83,768</b>	<b>78%</b>	<b>241,428</b>	<b>230,505</b>	<b>95%</b>	<b>72,721</b>	<b>66,585</b>	<b>92%</b>	<b>16,955</b>	<b>10,684</b>	<b>63%</b>	<b>438,237</b>	<b>391,486</b>	<b>89%</b>

Graph 111 - Proportion of large inspected ships, by age



Graph 112 - Proportion of gross tonnage for large inspected ships, by age



## VERY LARGE SHIPS

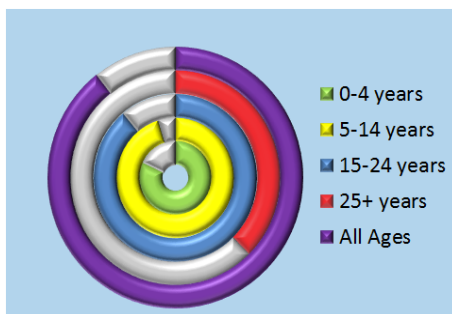
Table 122 - Total number of very large ships with and without inspections, by age and size

PSC Ship Type	0-4 years			5-14 years			15-24 years			25+ years			All Ages		
	Global	Inspected		Global	Inspected		Global	Inspected		Global	Inspected		Global	Inspected	
General cargo/Multipurpose	4	4	100.0%	14	14	100.0%	1	1	100.0%				19	19	100.0%
Refrigerated Cargo															
Heavy load	5	2	40.0%										5	2	40.0%
Container	426	383	89.9%	723	723	100.0%	167	167	100.0%				1,316	1,273	96.7%
Ro-Ro cargo	53	51	96.2%	122	120	98.4%	18	18	100.0%				193	189	97.9%
Bulk Carrier	442	354	80.1%	1,048	1,045	99.7%	166	164	98.8%	20	19	95.0%	1,676	1,582	94.4%
Oil tanker	396	204	51.5%	1,009	931	92.3%	311	265	85.2%	11	2	18.2%	1,727	1,402	81.2%
Chemical tanker				1	1	100.0%							1	1	100.0%
Combination carrier				2	2	100.0%	4	4	100.0%				6	6	100.0%
Gas carrier	113	76	67.3%	224	199	88.8%	60	33	55.0%	16	10	62.5%	413	318	77.0%
NLS Tanker	24	24	100.0%	53	53	100.0%	20	20	100.0%				97	97	100.0%
High speed passenger craft															
Passenger Ship	25	20	80.0%	75	74	98.7%	59	59	100.0%	8	8	100.0%	167	161	96.4%
RoRo passenger ship				4	4	100.0%							4	4	100.0%
Offshore supply	1		0.0%	1	1	100.0%				1	1	100.0%	3	2	66.7%
Special purpose ship							1		0.0%	1		0.0%	2		#VALUE!
Tug															
Other special activities	48	14	29.2%	32	1	3.1%	24	2	8.3%	56	3	5.4%	160	20	12.5%
Other	17	5	29.4%	10	10	100.0%							27	15	55.6%
<b>Total</b>	<b>1,554</b>	<b>1,137</b>	<b>73%</b>	<b>3,318</b>	<b>3,178</b>	<b>96%</b>	<b>831</b>	<b>733</b>	<b>88%</b>	<b>113</b>	<b>43</b>	<b>38%</b>	<b>5,816</b>	<b>5,091</b>	<b>88%</b>

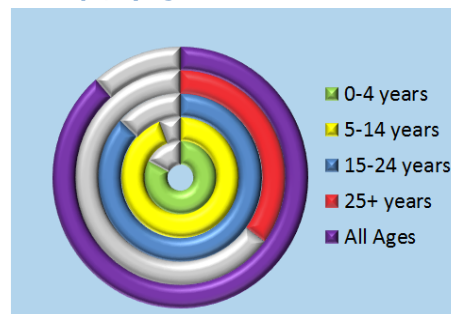
Table 123 - Gross tonnage (in 1000 gt) of very large ships with and without inspections, by age and size

PSC Ship Type	0-4 years			5-14 years			15-24 years			25+ years			All Ages		
	Global	Inspected		Global	Inspected		Global	Inspected		Global	Inspected		Global	Inspected	
General cargo/Multipurpose	345	345	100.0%	1,011	1,011	100.0%	61	61	100.0%				1,417	1,417	100.0%
Refrigerated Cargo															
Heavy load	707	495	70.0%										707	495	70.0%
Container	53,683	47,517	88.5%	70,238	70,238	100.0%	12,129	12,129	100.0%				136,050	129,884	95.5%
Ro-Ro cargo	3,854	3,653	94.8%	7,845	7,714	98.3%	1,229	1,229	100.0%				12,928	12,596	97.4%
Bulk Carrier	46,189	36,798	79.7%	101,125	100,939	99.8%	16,868	16,716	99.1%	2,679	2,619	97.8%	166,861	157,072	94.1%
Oil tanker	41,348	21,501	52.0%	106,815	97,283	91.1%	36,839	30,934	84.0%	1,028	161	15.7%	186,030	149,879	80.6%
Chemical tanker				162	162	100.0%							162	162	100.0%
Combination carrier				142	142	100.0%	254	254	100.0%				396	396	100.0%
Gas carrier	12,501	8,204	65.6%	25,017	22,186	88.7%	6,184	3,276	53.0%	1,527	953	62.4%	45,229	34,619	76.5%
NLS Tanker	2,827	2,827	100.0%	5,903	5,903	100.0%	2,874	2,874	100.0%				11,604	11,604	100.0%
High speed passenger craft															
Passenger Ship	3,477	2,770	79.7%	8,061	7,980	99.0%	5,028	5,028	100.0%	567	567	100.0%	17,133	16,345	95.4%
RoRo passenger ship				278	278	100.0%							278	278	100.0%
Offshore supply	60		0.0%	83	83	100.0%				89	89	100.0%	232	172	74.1%
Special purpose ship							147		0.0%	64		0.0%	211		#VALUE!
Tug															
Other special activities	4,713	1,240	26.3%	2,316	60	2.6%	2,648	227	8.6%	6,562	242	3.7%	16,239	1,769	10.9%
Other	1,197	360	30.1%	610	610	100.0%							1,807	970	53.7%
<b>Total</b>	<b>170,901</b>	<b>125,710</b>	<b>74%</b>	<b>329,606</b>	<b>314,589</b>	<b>95%</b>	<b>84,261</b>	<b>72,728</b>	<b>86%</b>	<b>12,516</b>	<b>4,631</b>	<b>37%</b>	<b>597,284</b>	<b>517,658</b>	<b>87%</b>

Graph 113 - Proportion of very large inspected ships, by age



Graph 114 - Proportion of gross tonnage for very large inspected ships, by age



## 5.3. SHIPS INSPECTED BETWEEN 2014 AND 2016 – BY P&amp;I

## WHOLE FLEET GT≥500

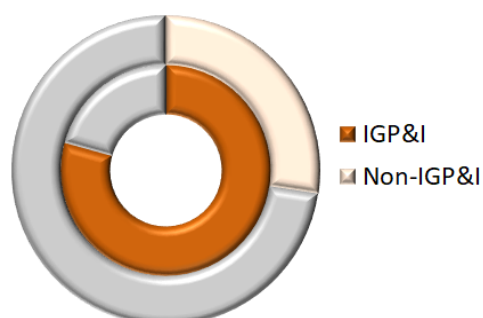
Table 124 - Total number of ships GT≥500 with and without inspections, by PSC type and P&amp;I status

PSC Ship Type	IGP&I		Non IGP&I		All Status				
	Global	Inspected	Global	Inspected	Global	Inspected			
General cargo/Multipurpose	4,319	3,799	88.0%	8,488	3,414	40.2%	12,807	7,213	56.3%
Refrigerated Cargo	342	313	91.5%	616	286	46.4%	958	599	62.5%
Heavy load	93	83	89.2%	18	6	33.3%	111	89	80.2%
Container	4,315	4,045	93.7%	596	314	52.7%	4,911	4,359	88.8%
Ro-Ro cargo	904	853	94.4%	353	154	43.6%	1,257	1,007	80.1%
Bulk Carrier	9,055	8,448	93.3%	1,142	555	48.6%	10,197	9,003	88.3%
Oil tanker	4,855	3,447	71.0%	2,501	265	10.6%	7,356	3,712	50.5%
Chemical tanker	3,487	2,974	85.3%	815	195	23.9%	4,302	3,169	73.7%
Combination carrier	26	25	96.2%	4	3	75.0%	30	28	93.3%
Gas carrier	1,430	1,145	80.1%	373	71	19.0%	1,803	1,216	67.4%
NLS Tanker	354	354	100.0%	15	8	53.3%	369	362	98.1%
High speed passenger craft	29	29	100.0%	15	15	100.0%	44	44	100.0%
Passenger Ship	458	332	72.5%	507	42	8.3%	965	374	38.8%
RoRo passenger ship	736	310	42.1%	1,368	62	4.5%	2,104	372	17.7%
Offshore supply	2,937	809	27.5%	1,925	209	10.9%	4,862	1,015	20.9%
Special purpose ship	205	130	63.4%	368	51	13.9%	573	181	31.6%
Tug	497	149	30.0%	557	53	9.5%	1,054	202	19.2%
Other special activities	1,143	683	59.8%	2,070	269	13.0%	3,213	952	29.6%
Other	321	229	71.3%	417	94	22.5%	738	323	43.8%
<b>Total</b>	<b>35,506</b>	<b>28,157</b>	<b>79%</b>	<b>22,148</b>	<b>6,066</b>	<b>27%</b>	<b>57,654</b>	<b>34,220</b>	<b>59%</b>

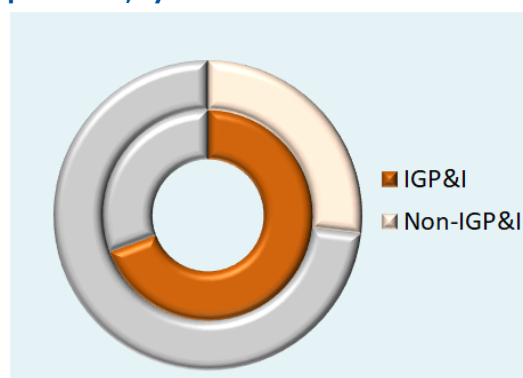
Table 125 - Gross tonnage (in 1000 gt) of ships GT≥500 with and without inspections, by PSC type and P&amp;I status

PSC Ship Type	IGP&I		Non IGP&I		All Status				
	Global	Inspected	Global	Inspected	Global	Inspected			
General cargo/Multipurpose	44,354	42,081	94.9%	23,637	12,693	53.7%	67,991	54,774	80.6%
Refrigerated Cargo	2,632	2,492	94.7%	2,162	1,406	65.0%	4,794	3,898	81.3%
Heavy load	2,728	2,349	86.1%	255	72	28.2%	2,983	2,421	81.2%
Container	209,797	200,081	95.4%	7,389	4,900	66.3%	217,186	204,981	94.4%
Ro-Ro cargo	38,689	37,813	97.7%	3,320	2,121	63.9%	42,009	39,934	95.1%
Bulk Carrier	400,763	374,367	93.4%	24,605	11,970	48.6%	425,368	386,337	90.8%
Oil tanker	253,852	208,113	82.0%	9,778	1,747	17.9%	263,630	209,860	79.6%
Chemical tanker	54,403	47,916	88.1%	2,978	954	32.0%	57,381	48,870	85.2%
Combination carrier	753	732	97.2%	13	8	61.5%	766	740	96.6%
Gas carrier	63,876	49,888	78.1%	982	284	28.9%	64,858	50,172	77.4%
NLS Tanker	17,974	17,974	100.0%	46	37	80.4%	18,020	18,011	100.0%
High speed passenger craft	147	147	100.0%	42	42	100.0%	189	189	100.0%
Passenger Ship	20,809	19,804	95.2%	1,207	320	26.5%	22,016	20,124	91.4%
RoRo passenger ship	10,785	7,962	73.8%	5,433	714	13.1%	16,218	8,676	53.5%
Offshore supply	9,207	3,250	35.3%	3,359	456	13.6%	12,566	3,478	27.7%
Special purpose ship	1,731	1,020	58.9%	1,066	211	19.8%	2,797	1,231	44.0%
Tug	629	295	46.9%	512	64	12.5%	1,141	359	31.5%
Other special activities	24,416	10,121	41.5%	10,108	1,380	13.7%	34,524	11,501	33.3%
Other	7,016	5,586	79.6%	1,818	694	38.2%	8,834	6,280	71.1%
<b>Total</b>	<b>1,164,561</b>	<b>1,031,991</b>	<b>89%</b>	<b>98,710</b>	<b>40,073</b>	<b>41%</b>	<b>1,263,271</b>	<b>1,071,836</b>	<b>85%</b>

Graph 115 - Proportion of inspected ships GT≥500, by P&amp;I status



Graph 116 - Proportion of gross tonnage for inspected ships GT≥500, by P&amp;I status



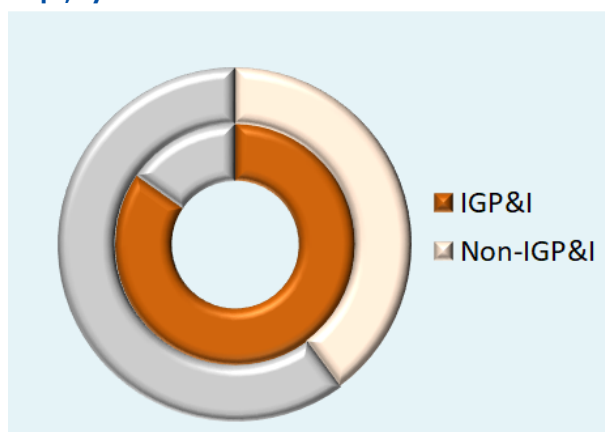
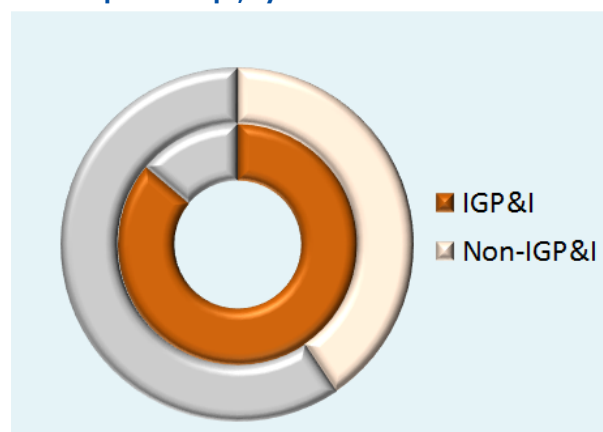
## MEDIUM SHIPS

**Table 126 - Total number of medium sized ships with and without inspections, by PSC type and P&I status**

PSC Ship Type	IGP&I		Non IGP&I			All Status			
	Global	Inspected	Global	Inspected	Global	Inspected			
General cargo/Multipurpose	3,892	3,382	86.9%	8,477	3,406	40.2%	12,369	6,788	54.9%
Refrigerated Cargo	341	312	91.5%	613	286	46.7%	954	598	62.7%
Heavy load	51	47	92.2%	17	6	35.3%	68	53	77.9%
Container	1,600	1,421	88.8%	524	262	50.0%	2,124	1,683	79.2%
Ro-Ro cargo	247	206	83.4%	327	129	39.4%	574	335	58.4%
Bulk Carrier	2,207	2,077	94.1%	711	374	52.6%	2,918	2,451	84.0%
Oil tanker	1,691	782	46.2%	2,433	246	10.1%	4,124	1,028	24.9%
Chemical tanker	2,444	2,063	84.4%	803	192	23.9%	3,247	2,255	69.4%
Combination carrier	14	13	92.9%	4	3	75.0%	18	16	88.9%
Gas carrier	730	595	81.5%	368	70	19.0%	1,098	665	60.6%
NLS Tanker	132	132	100.0%	15	8	53.3%	147	140	95.2%
High speed passenger craft	29	29	100.0%	15	15	100.0%	44	44	100.0%
Passenger Ship	225	107	47.6%	505	40	7.9%	730	147	20.1%
RoRo passenger ship	539	146	27.1%	1,357	57	4.2%	1,896	203	10.7%
Offshore supply	2,926	806	27.5%	1,922	209	10.9%	4,848	1,015	20.9%
Special purpose ship	192	123	64.1%	367	51	13.9%	559	174	31.1%
Tug	497	149	30.0%	557	53	9.5%	1,054	202	19.2%
Other special activities	853	532	62.4%	1,987	257	12.9%	2,840	789	27.8%
Other	202	127	62.9%	406	86	21.2%	608	213	35.0%
<b>Total</b>	<b>18,812</b>	<b>13,049</b>	<b>69%</b>	<b>21,408</b>	<b>5,750</b>	<b>27%</b>	<b>40,220</b>	<b>18,799</b>	<b>47%</b>

**Table 127 - Gross tonnage (in 1000 gt) of medium sized ships with and without inspections, by PSC type and P&I status**

PSC Ship Type	IGP&I		Non IGP&I			All Status			
	Global	Inspected	Global	Inspected	Global	Inspected			
General cargo/Multipurpose	28,629	26,680	93.2%	23,325	12,476	53.5%	51,954	39,156	75.4%
Refrigerated Cargo	2,599	2,459	94.6%	2,048	1,406	68.7%	4,647	3,865	83.2%
Heavy load	666	612	91.9%	188	72	38.3%	854	684	80.1%
Container	20,540	18,572	90.4%	4,157	2,563	61.7%	24,697	21,135	85.6%
Ro-Ro cargo	3,376	3,028	89.7%	2,093	922	44.1%	5,469	3,950	72.2%
Bulk Carrier	42,225	39,798	94.3%	9,224	4,664	50.6%	51,449	44,462	86.4%
Oil tanker	10,197	6,268	61.5%	5,736	868	15.1%	15,933	7,136	44.8%
Chemical tanker	23,578	21,041	89.2%	2,621	854	32.6%	26,199	21,895	83.6%
Combination carrier	152	131	86.2%	13	8	61.5%	165	139	84.2%
Gas carrier	6,128	4,928	80.4%	724	241	33.3%	6,852	5,169	75.4%
NLS Tanker	1,380	1,380	100.0%	46	37	80.4%	1,426	1,417	99.4%
High speed passenger craft	147	147	100.0%	42	42	100.0%	189	189	100.0%
Passenger Ship	1,036	907	87.5%	1,155	268	23.2%	2,191	1,175	53.6%
RoRo passenger ship	3,796	2,042	53.8%	5,096	570	11.2%	8,892	2,612	29.4%
Offshore supply	8,657	3,022	34.9%	3,242	456	14.1%	11,899	3,478	29.2%
Special purpose ship	1,130	784	69.4%	1,011	211	20.9%	2,141	995	46.5%
Tug	629	295	46.9%	512	64	12.5%	1,141	359	31.5%
Other special activities	4,266	2,985	70.0%	4,633	703	15.2%	8,899	3,688	41.4%
Other	1,345	961	71.4%	1,399	399	28.5%	2,744	1,360	49.6%
<b>Total</b>	<b>160,476</b>	<b>136,040</b>	<b>85%</b>	<b>67,265</b>	<b>26,824</b>	<b>40%</b>	<b>227,741</b>	<b>162,864</b>	<b>72%</b>

**Graph 117 - Proportion of medium sized inspected ships, by P&I status****Graph 118 - Proportion of gross tonnage for medium sized inspected ships, by P&I status**

## LARGE SHIPS

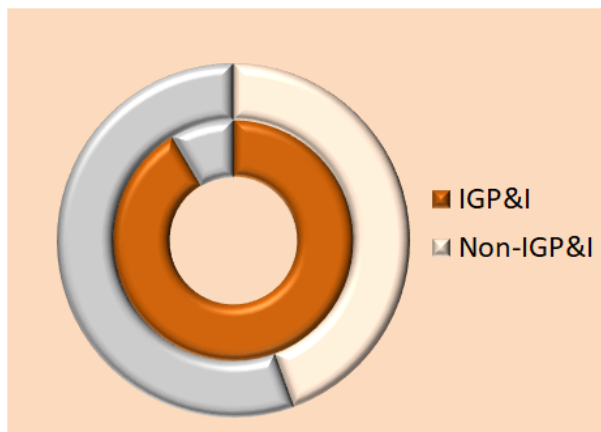
Table 128 - Total number of large ships with and without inspections, by PSC type and P&amp;I status

PSC Ship Type	IGP&I			Non IGP&I			All Status		
	Global	Inspected		Global	Inspected		Global	Inspected	
General cargo/Multipurpose	408	398	97.5%	11	8	72.7%	419	406	96.9%
Refrigerated Cargo	1	1	100.0%	3		0.0%	4	1	25.0%
Heavy load	38	34	89.5%				38	34	89.5%
Container	1,407	1,357	96.4%	64	46	71.9%	1,471	1,403	95.4%
Ro-Ro cargo	466	460	98.7%	24	23	95.8%	490	483	98.6%
Bulk Carrier	5,192	4,807	92.6%	411	163	39.7%	5,603	4,970	88.7%
Oil tanker	1,458	1,265	86.8%	47	17	36.2%	1,505	1,282	85.2%
Chemical tanker	1,042	910	87.3%	12	3	25.0%	1,054	913	86.6%
Combination carrier	6	6	100.0%				6	6	100.0%
Gas carrier	288	232	80.6%	4	1	25.0%	292	233	79.8%
NLS Tanker	125	125	100.0%				125	125	100.0%
High speed passenger craft									
Passenger Ship	66	64	97.0%	2	2	100.0%	68	66	97.1%
RoRo passenger ship	193	160	82.9%	11	5	45.5%	204	165	80.9%
Offshore supply	8	1	12.5%	3		0.0%	11		0.0%
Special purpose ship	11	7	63.6%	1		0.0%	12	7	58.3%
Tug									
Other special activities	179	136	76.0%	34	7	20.6%	213	143	67.1%
Other	93	87	93.5%	10	8	80.0%	103	95	92.2%
<b>Total</b>	<b>10,981</b>	<b>10,050</b>	<b>92%</b>	<b>637</b>	<b>283</b>	<b>44%</b>	<b>11,618</b>	<b>10,332</b>	<b>89%</b>

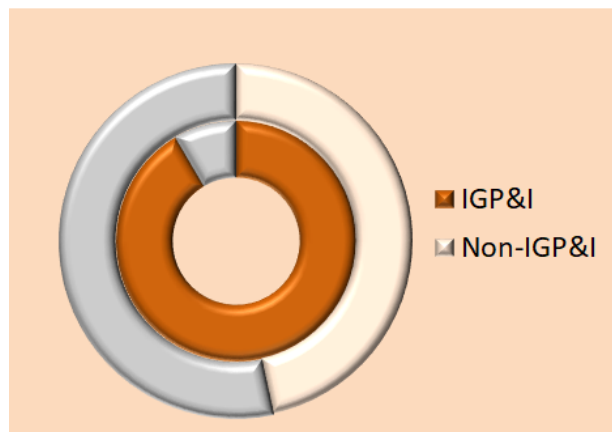
Table 129 - Gross tonnage (in 1000 gt) of large ships with and without inspections, by PSC type and P&amp;I status

PSC Ship Type	IGP&I			Non IGP&I			All Status		
	Global	Inspected		Global	Inspected		Global	Inspected	
General cargo/Multipurpose	14,308	13,984	97.7%	312	217	69.6%	14,620	14,201	97.1%
Refrigerated Cargo	33	33	100.0%	114		0.0%	147	33	22.4%
Heavy load	1,421	1,242	87.4%				1,421	1,242	87.4%
Container	53,980	52,103	96.5%	2,459	1,859	75.6%	56,439	53,962	95.6%
Ro-Ro cargo	22,530	22,333	99.1%	1,082	1,054	97.4%	23,612	23,387	99.0%
Bulk Carrier	193,603	179,224	92.6%	13,455	5,580	41.5%	207,058	184,804	89.3%
Oil tanker	59,960	52,202	87.1%	1,706	643	37.7%	61,666	52,845	85.7%
Chemical tanker	30,663	26,713	87.1%	357	100	28.0%	31,020	26,813	86.4%
Combination carrier	205	205	100.0%				205	205	100.0%
Gas carrier	12,597	10,340	82.1%	179	43	24.0%	12,776	10,383	81.3%
NLS Tanker	4,990	4,990	100.0%				4,990	4,990	100.0%
High speed passenger craft									
Passenger Ship	2,640	2,552	96.7%	52	52	100.0%	2,692	2,604	96.7%
RoRo passenger ship	6,711	5,642	84.1%	337	144	42.7%	7,048	5,786	82.1%
Offshore supply	318	56	17.6%	117		0.0%	435		0.0%
Special purpose ship	389	236	60.7%	55		0.0%	444	236	53.2%
Tug									
Other special activities	7,801	5,706	73.1%	1,585	338	21.3%	9,386	6,044	64.4%
Other	3,926	3,655	93.1%	357	295	82.6%	4,283	3,950	92.2%
<b>Total</b>	<b>416,075</b>	<b>381,216</b>	<b>92%</b>	<b>22,167</b>	<b>10,325</b>	<b>47%</b>	<b>438,242</b>	<b>391,485</b>	<b>89%</b>

Graph 119 - Proportion of large inspected ships, by P&amp;I status



Graph 120 - Proportion of gross tonnage for large inspected ships, by P&amp;I status



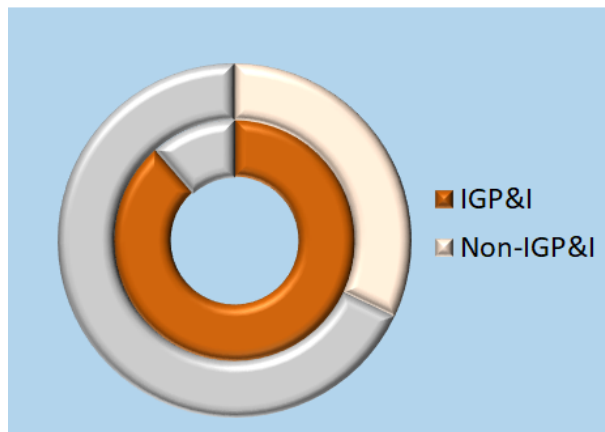
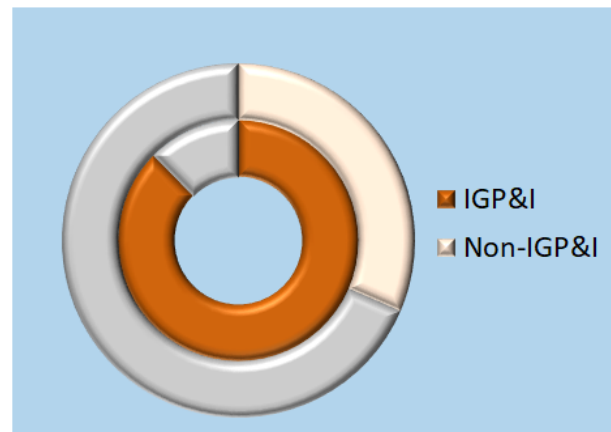
## VERY LARGE SHIPS

**Table 130 - Total number of very large ships with and without inspections, by PSC type and P&I status**

PSC Ship Type	IGP&I			Non IGP&I			All Status		
	Global	Inspected		Global	Inspected		Global	Inspected	
General cargo/Multipurpose	19	19	100.0%				19	19	100.0%
Refrigerated Cargo									
Heavy load	4	2	50.0%	1		0.0%	5	2	40.0%
Container	1,308	1,267	96.9%	8	6	75.0%	1,316	1,273	96.7%
Ro-Ro cargo	191	187	97.9%	2	2	100.0%	193	189	97.9%
Bulk Carrier	1,656	1,564	94.4%	20	18	90.0%	1,676	1,582	94.4%
Oil tanker	1,706	1,400	82.1%	21	2	9.5%	1,727	1,402	81.2%
Chemical tanker	1	1	100.0%				1	1	100.0%
Combination carrier	6	6	100.0%				6	6	100.0%
Gas carrier	412	318	77.2%	1		0.0%	413	318	77.0%
NLS Tanker	97	97	100.0%				97	97	100.0%
High speed passenger craft									
Passenger Ship	167	161	96.4%				167	161	96.4%
RoRo passenger ship	4	4	100.0%				4	4	100.0%
Offshore supply	3	2	66.7%				3		0.0%
Special purpose ship	2		0.0%				2		#VALUE!
Tug									
Other special activities	111	15	13.5%	49	5	10.2%	160	20	12.5%
Other	26	15	57.7%	1		0.0%	27	15	55.6%
<b>Total</b>	<b>5,713</b>	<b>5,058</b>	<b>89%</b>	<b>103</b>	<b>33</b>	<b>32%</b>	<b>5,816</b>	<b>5,089</b>	<b>88%</b>

**Table 131 - Gross tonnage (in 1000 gt) of very large ships with and without inspections, by PSC type and P&I status**

PSC Ship Type	IGP&I			Non IGP&I			All Status		
	Global	Inspected		Global	Inspected		Global	Inspected	
General cargo/Multipurpose	1,417	1,417	100.0%				1,417	1,417	100.0%
Refrigerated Cargo									
Heavy load	641	495	77.2%	67		0.0%	708	495	69.9%
Container	135,277	129,406	95.7%	773	478	61.8%	136,050	129,884	95.5%
Ro-Ro cargo	12,783	12,452	97.4%	145	145	100.0%	12,928	12,597	97.4%
Bulk Carrier	164,935	155,345	94.2%	1,926	1,726	89.6%	166,861	157,071	94.1%
Oil tanker	183,695	149,643	81.5%	2,336	236	10.1%	186,031	149,879	80.6%
Chemical tanker	162	162	100.0%				162	162	100.0%
Combination carrier	396	396	100.0%				396	396	100.0%
Gas carrier	45,151	34,620	76.7%	79		0.0%	45,230	34,620	76.5%
NLS Tanker	11,604	11,604	100.0%				11,604	11,604	100.0%
High speed passenger craft									
Passenger Ship	17,133	16,345	95.4%				17,133	16,345	95.4%
RoRo passenger ship	278	278	100.0%				278	278	100.0%
Offshore supply	232	172	74.1%				232		0.0%
Special purpose ship	212		0.0%				212		#VALUE!
Tug									
Other special activities	12,349	1,430	11.6%	3,890	339	8.7%	16,239	1,769	10.9%
Other	1,745	970	55.6%	62		0.0%	1,807	970	53.7%
<b>Total</b>	<b>588,010</b>	<b>514,735</b>	<b>88%</b>	<b>9,278</b>	<b>2,924</b>	<b>32%</b>	<b>597,288</b>	<b>517,487</b>	<b>87%</b>

**Graph 121 - Proportion of very large inspected ships, by P&I status****Graph 122 - Proportion of gross tonnage for very large inspected ships, by P&I status**



## 5.4. SHIPS INSPECTED BETWEEN 2014 AND 2016 – BY FLAG

## WHOLE FLEET GT≥500

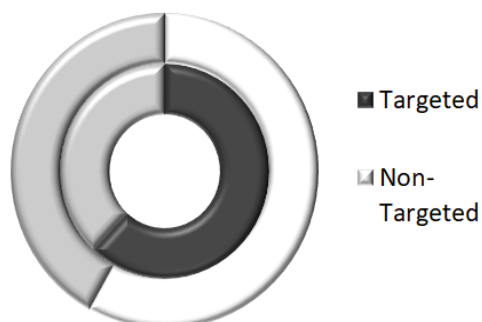
Table 132 - Total number of ships GT≥500 with and without inspections, by PSC type and flag

PSC Ship Type	Targeted Flags			Non Targeted Flags			All Flags		
	Global	Inspected		Global	Inspected		Global	Inspected	
General cargo/Multipurpose	5,807	3,540	61.0%	7,000	3,673	52.5%	12,807	7,213	56.3%
Refrigerated Cargo	307	208	67.8%	651	391	60.1%	958	599	62.5%
Heavy load	20	17	85.0%	91	72	79.1%	111	89	80.2%
Container	1,295	1,087	83.9%	3,616	3,272	90.5%	4,911	4,359	88.8%
Ro-Ro cargo	400	324	81.0%	857	683	79.7%	1,257	1,007	80.1%
Bulk Carrier	3,347	3,163	94.5%	6,850	5,840	85.3%	10,197	9,003	88.3%
Oil tanker	2,146	950	44.3%	5,210	2,762	53.0%	7,356	3,712	50.5%
Chemical tanker	1,001	639	63.8%	3,301	2,530	76.6%	4,302	3,169	73.7%
Combination carrier	7	6	85.7%	23	22	95.7%	30	28	93.3%
Gas carrier	488	286	58.6%	1,315	930	70.7%	1,803	1,216	67.4%
NLS Tanker	80	78	97.5%	289	284	98.3%	369	362	98.1%
High speed passenger craft	14	14	100.0%	30	30	100.0%	44	44	100.0%
Passenger Ship	202	54	26.7%	763	320	41.9%	965	374	38.8%
RoRo passenger ship	587	71	12.1%	1,517	301	19.8%	2,104	372	17.7%
Offshore supply	1,164	251	21.6%	3,698	767	20.7%	4,862	1,015	20.9%
Special purpose ship	103	53	51.5%	470	128	27.2%	573	181	31.6%
Tug	156	59	37.8%	898	143	15.9%	1,054	202	19.2%
Other special activities	784	309	39.4%	2,429	643	26.5%	3,213	952	29.6%
Other	235	131	55.7%	503	192	38.2%	738	323	43.8%
<b>Total</b>	<b>18,143</b>	<b>11,240</b>	<b>62%</b>	<b>39,511</b>	<b>22,983</b>	<b>58%</b>	<b>57,654</b>	<b>34,220</b>	<b>59%</b>

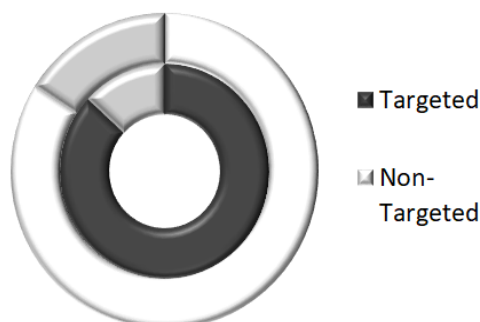
Table 133 - Gross tonnage (in 1000 gt) of ships GT≥500 with and without inspections, by PSC type and flag

PSC Ship Type	Targeted Flags			Non Targeted Flags			All Flags		
	Global	Inspected		Global	Inspected		Global	Inspected	
General cargo/Multipurpose	26,555	21,742	81.9%	41,434	33,032	79.7%	67,989	54,774	80.6%
Refrigerated Cargo	1,415	1,161	82.0%	3,379	2,737	81.0%	4,794	3,898	81.3%
Heavy load	393	370	94.1%	2,589	2,050	79.2%	2,982	2,420	81.2%
Container	43,681	41,458	94.9%	173,505	163,523	94.2%	217,186	204,981	94.4%
Ro-Ro cargo	12,899	12,496	96.9%	29,109	27,439	94.3%	42,008	39,935	95.1%
Bulk Carrier	137,428	131,462	95.7%	287,939	254,876	88.5%	425,367	386,338	90.8%
Oil tanker	71,716	56,050	78.2%	191,914	153,810	80.1%	263,630	209,860	79.6%
Chemical tanker	10,022	7,824	78.1%	47,359	41,046	86.7%	57,381	48,870	85.2%
Combination carrier	86	81	94.2%	679	659	97.1%	765	740	96.7%
Gas carrier	13,122	8,221	62.7%	51,739	41,950	81.1%	64,861	50,171	77.4%
NLS Tanker	3,516	3,514	99.9%	14,504	14,497	100.0%	18,020	18,011	100.0%
High speed passenger craft	63	63	100.0%	125	125	100.0%	188	188	100.0%
Passenger Ship	3,599	3,157	87.7%	18,417	16,968	92.1%	22,016	20,125	91.4%
RoRo passenger ship	3,028	1,436	47.4%	13,189	7,239	54.9%	16,217	8,675	53.5%
Offshore supply	2,566	653	25.4%	10,000	3,053	30.5%	12,566	3,478	27.7%
Special purpose ship	543	397	73.1%	2,255	834	37.0%	2,798	1,231	44.0%
Tug	179	96	53.6%	962	262	27.2%	1,141	358	31.4%
Other special activities	8,883	4,821	54.3%	25,641	6,679	26.0%	34,524	11,500	33.3%
Other	3,241	2,770	85.5%	5,592	3,510	62.8%	8,833	6,280	71.1%
<b>Total</b>	<b>342,935</b>	<b>297,772</b>	<b>87%</b>	<b>920,331</b>	<b>774,289</b>	<b>84%</b>	<b>1,263,266</b>	<b>1,071,833</b>	<b>85%</b>

Graph 123 - Proportion of inspected ships GT≥500, by flag



Graph 124 - Proportion of gross tonnage for inspected ships GT≥500, by flag



## MEDIUM SIZED SHIPS

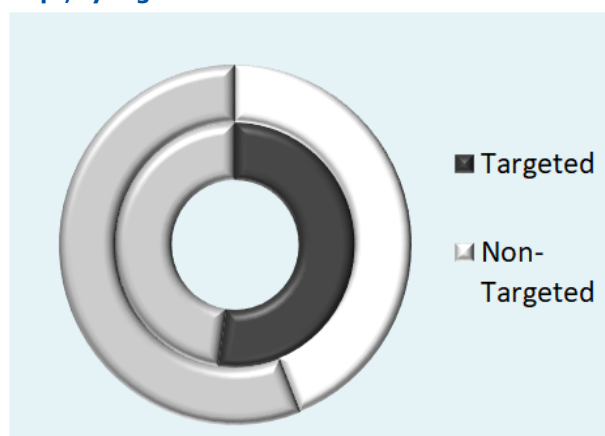
Table 134 - Total number of medium sized ships with and without inspections, by PSC type and flag

PSC Ship Type	Targeted Flags			Non Targeted Flags			All Flags		
	Global	Inspected		Global	Inspected		Global	Inspected	
General cargo/Multipurpose	5,699	3,434	60.3%	6,670	3,354	50.3%	12,369	6,788	54.9%
Refrigerated Cargo	307	208	67.8%	647	390	60.3%	954	598	62.7%
Heavy load	12	9	75.0%	56	44	78.6%	68	53	77.9%
Container	765	568	74.2%	1,359	1,115	82.0%	2,124	1,683	79.2%
Ro-Ro cargo	182	107	58.8%	392	228	58.2%	574	335	58.4%
Bulk Carrier	1,041	971	93.3%	1,877	1,480	78.8%	2,918	2,451	84.0%
Oil tanker	1,334	296	22.2%	2,790	732	26.2%	4,124	1,028	24.9%
Chemical tanker	867	527	60.8%	2,380	1,728	72.6%	3,247	2,255	69.4%
Combination carrier	6	5	83.3%	12	11	91.7%	18	16	88.9%
Gas carrier	334	185	55.4%	764	480	62.8%	1,098	665	60.6%
NLS Tanker	40	38	95.0%	107	102	95.3%	147	140	95.2%
High speed passenger craft	14	14	100.0%	30	30	100.0%	44	44	100.0%
Passenger Ship	171	23	13.5%	559	124	22.2%	730	147	20.1%
RoRo passenger ship	557	45	8.1%	1,339	158	11.8%	1,896	203	10.7%
Offshore supply	1,159	251	21.7%	3,689	764	20.7%	4,848	1,015	20.9%
Special purpose ship	97	48	49.5%	462	126	27.3%	559	174	31.1%
Tug	156	59	37.8%	898	143	15.9%	1,054	202	19.2%
Other special activities	658	224	34.0%	2,182	565	25.9%	2,840	789	27.8%
Other	181	79	43.6%	427	134	31.4%	608	213	35.0%
<b>Total</b>	<b>13,580</b>	<b>7,091</b>	<b>52%</b>	<b>26,640</b>	<b>11,708</b>	<b>44%</b>	<b>40,220</b>	<b>18,799</b>	<b>47%</b>

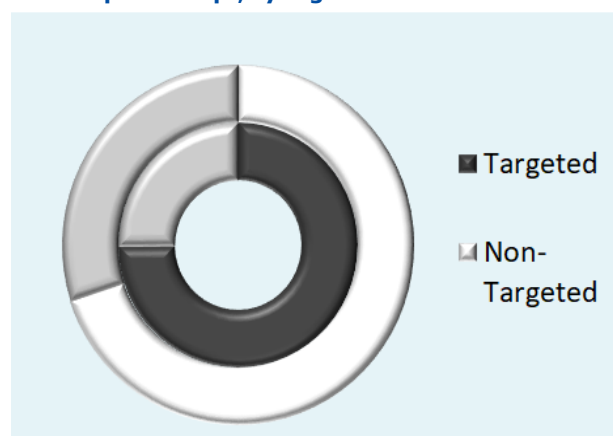
Table 135 - Gross tonnage (in 1000 gt) of medium sized ships with and without inspections, by PSC type and flag

PSC Ship Type	Targeted Flags			Non Targeted Flags			All Flags		
	Global	Inspected		Global	Inspected		Global	Inspected	
General cargo/Multipurpose	22,613	17,869	79.0%	29,340	21,287	72.6%	51,953	39,156	75.4%
Refrigerated Cargo	1,415	1,161	82.0%	3,232	2,704	83.7%	4,647	3,865	83.2%
Heavy load	114	91	79.8%	740	593	80.1%	854	684	80.1%
Container	8,237	6,808	82.7%	16,461	14,328	87.0%	24,698	21,136	85.6%
Ro-Ro cargo	1,280	909	71.0%	4,188	3,041	72.6%	5,468	3,950	72.2%
Bulk Carrier	17,302	16,336	94.4%	34,147	28,127	82.4%	51,449	44,463	86.4%
Oil tanker	4,666	1,667	35.7%	11,267	5,469	48.5%	15,933	7,136	44.8%
Chemical tanker	6,026	4,488	74.5%	20,173	17,407	86.3%	26,199	21,895	83.6%
Combination carrier	56	51	91.1%	108	88	81.5%	164	139	84.8%
Gas carrier	1,974	1,251	63.4%	4,879	3,918	80.3%	6,853	5,169	75.4%
NLS Tanker	279	277	99.3%	1,147	1,140	99.4%	1,426	1,417	99.4%
High speed passenger craft	63	63	100.0%	125	125	100.0%	188	188	100.0%
Passenger Ship	610	168	27.5%	1,581	1,008	63.8%	2,191	1,176	53.7%
RoRo passenger ship	2,117	641	30.3%	6,774	1,971	29.1%	8,891	2,612	29.4%
Offshore supply	2,363	653	27.6%	9,536	2,825	29.6%	11,899	3,478	29.2%
Special purpose ship	310	219	70.6%	1,832	776	42.4%	2,142	995	46.5%
Tug	179	96	53.6%	962	262	27.2%	1,141	358	31.4%
Other special activities	2,049	1,010	49.3%	6,850	2,677	39.1%	8,899	3,687	41.4%
Other	782	463	59.2%	1,962	897	45.7%	2,744	1,360	49.6%
<b>Total</b>	<b>72,435</b>	<b>54,221</b>	<b>75%</b>	<b>155,304</b>	<b>108,643</b>	<b>70%</b>	<b>227,739</b>	<b>162,864</b>	<b>72%</b>

Graph 125 - Proportion of medium sized inspected ships, by flag



Graph 126 - Proportion of gross tonnage for medium sized inspected ships, by flag



## LARGE SHIPS

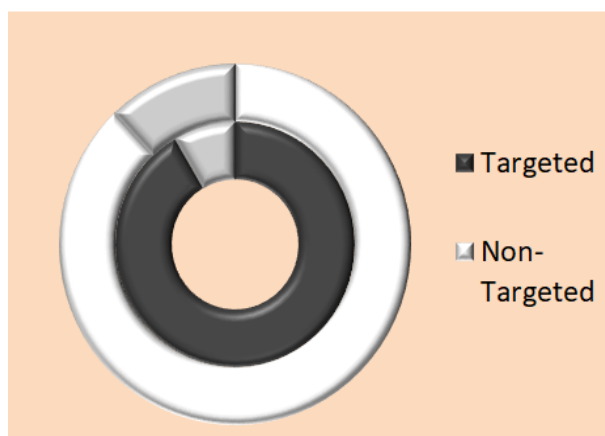
Table 136 - Total number of large ships with and without inspections, by PSC type and flag

PSC Ship Type	Targeted Flags			Non Targeted Flags			All Flags		
	Global	Inspected		Global	Inspected		Global	Inspected	
General cargo/Multipurpose	107	105	98.1%	312	301	96.5%	419	406	96.9%
Refrigerated Cargo				4	1	25.0%	4	1	25.0%
Heavy load	8	8	100.0%	30	26	86.7%	38	34	89.5%
Container	287	280	97.6%	1,184	1,123	94.8%	1,471	1,403	95.4%
Ro-Ro cargo	163	162	99.4%	327	321	98.2%	490	483	98.6%
Bulk Carrier	1,713	1,612	94.1%	3,890	3,358	86.3%	5,603	4,970	88.7%
Oil tanker	376	302	80.3%	1,129	980	86.8%	1,505	1,282	85.2%
Chemical tanker	134	112	83.6%	920	801	87.1%	1,054	913	86.6%
Combination carrier	1	1	100.0%	5	5	100.0%	6	6	100.0%
Gas carrier	84	60	71.4%	208	173	83.2%	292	233	79.8%
NLS Tanker	17	17	100.0%	108	108	100.0%	125	125	100.0%
High speed passenger craft									
Passenger Ship	2	2	100.0%	66	64	97.0%	68	66	97.1%
RoRo passenger ship	30	26	86.7%	174	139	79.9%	204	165	80.9%
Offshore supply	5		0.0%	6	1	16.7%	11		0.0%
Special purpose ship	6	5	83.3%	6	2	33.3%	12	7	58.3%
Tug									
Other special activities	98	80	81.6%	115	63	54.8%	213	143	67.1%
Other	47	47	100.0%	56	48	85.7%	103	95	92.2%
<b>Total</b>	<b>3,078</b>	<b>2,819</b>	<b>92%</b>	<b>8,540</b>	<b>7,514</b>	<b>88%</b>	<b>11,618</b>	<b>10,332</b>	<b>89%</b>

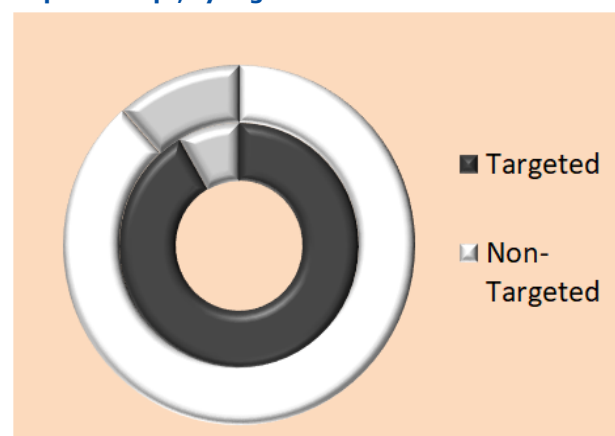
Table 137 - Gross tonnage (in 1000 gt) of large ships with and without inspections, by PSC type and flag

PSC Ship Type	Targeted Flags			Non Targeted Flags			All Flags		
	Global	Inspected		Global	Inspected		Global	Inspected	
General cargo/Multipurpose	3,859	3,790	98.2%	10,760	10,411	96.8%	14,619	14,201	97.1%
Refrigerated Cargo				147	33	22.4%	147	33	22.4%
Heavy load	279	279	100.0%	1,142	962	84.2%	1,421	1,241	87.3%
Container	10,791	10,587	98.1%	45,647	43,374	95.0%	56,438	53,961	95.6%
Ro-Ro cargo	8,073	8,041	99.6%	15,539	15,347	98.8%	23,612	23,388	99.1%
Bulk Carrier	63,576	59,768	94.0%	143,482	125,037	87.1%	207,058	184,805	89.3%
Oil tanker	15,554	12,785	82.2%	46,112	40,060	86.9%	61,666	52,845	85.7%
Chemical tanker	3,996	3,336	83.5%	27,024	23,477	86.9%	31,020	26,813	86.4%
Combination carrier	30	30	100.0%	175	175	100.0%	205	205	100.0%
Gas carrier	3,753	2,708	72.2%	9,024	7,675	85.1%	12,777	10,383	81.3%
NLS Tanker	711	711	100.0%	4,279	4,279	100.0%	4,990	4,990	100.0%
High speed passenger craft									
Passenger Ship	62	62	100.0%	2,630	2,542	96.7%	2,692	2,604	96.7%
RoRo passenger ship	911	795	87.3%	6,137	4,990	81.3%	7,048	5,785	82.1%
Offshore supply	203		0.0%	232	56	24.1%	435		0.0%
Special purpose ship	233	178	76.4%	211	58	27.5%	444	236	53.2%
Tug									
Other special activities	4,175	3,333	79.8%	5,210	2,711	52.0%	9,385	6,044	64.4%
Other	1,999	1,999	100.0%	2,283	1,951	85.5%	4,282	3,950	92.2%
<b>Total</b>	<b>118,205</b>	<b>108,402</b>	<b>92%</b>	<b>320,034</b>	<b>283,138</b>	<b>88%</b>	<b>438,239</b>	<b>391,484</b>	<b>89%</b>

Graph 127 - Proportion of large inspected ships, by flag



Graph 128 - Proportion of gross tonnage for large inspected ships, by flag



## VERY LARGE SHIPS

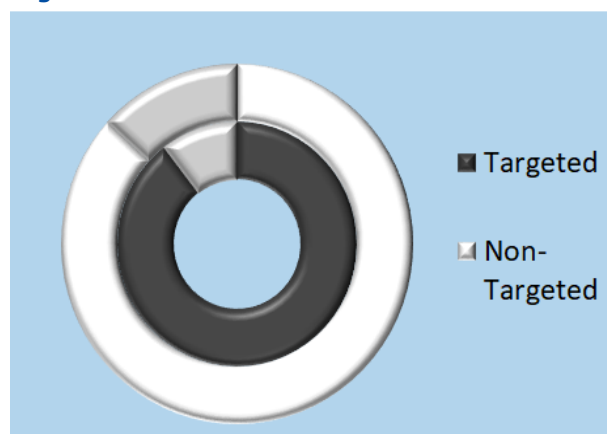
Table 138 - Total number of very large ships with and without inspections, by PSC type and flag

PSC Ship Type	Targeted Flags			Non Targeted Flags			All Flags		
	Global	Inspected		Global	Inspected		Global	Inspected	
General cargo/Multipurpose	1	1	100.0%	18	18	100.0%	19	19	100.0%
Refrigerated Cargo									
Heavy load				5	2	40.0%	5	2	40.0%
Container	243	239	98.4%	1,073	1,034	96.4%	1,316	1,273	96.7%
Ro-Ro cargo	55	55	100.0%	138	134	97.1%	193	189	97.9%
Bulk Carrier	593	580	97.8%	1,083	1,002	92.5%	1,676	1,582	94.4%
Oil tanker	436	352	80.7%	1,291	1,050	81.3%	1,727	1,402	81.2%
Chemical tanker				1	1	100.0%	1	1	100.0%
Combination carrier				6	6	100.0%	6	6	100.0%
Gas carrier	70	41	58.6%	343	277	80.8%	413	318	77.0%
NLS Tanker	23	23	100.0%	74	74	100.0%	97	97	100.0%
High speed passenger craft									
Passenger Ship	29	29	100.0%	138	132	95.7%	167	161	96.4%
RoRo passenger ship				4	4	100.0%	4	4	100.0%
Offshore supply				3	2	66.7%	3		0.0%
Special purpose ship				2		0.0%	2		#VALUE!
Tug									
Other special activities	28	5	17.9%	132	15	11.4%	160	20	12.5%
Other	7	5	71.4%	20	10	50.0%	27	15	55.6%
<b>Total</b>	<b>1,485</b>	<b>1,330</b>	<b>90%</b>	<b>4,331</b>	<b>3,761</b>	<b>87%</b>	<b>5,816</b>	<b>5,089</b>	<b>88%</b>

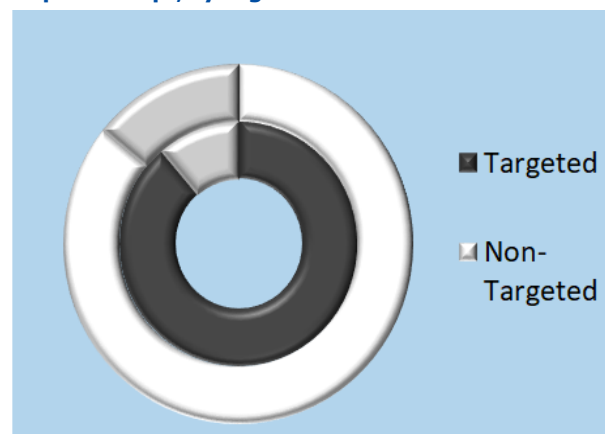
Table 139 - Gross tonnage (in 1000 gt) of very large ships with and without inspections, by PSC type and flag

PSC Ship Type	Targeted Flags			Non Targeted Flags			All Flags		
	Global	Inspected		Global	Inspected		Global	Inspected	
General cargo/Multipurpose	83	83	100.0%	1,334	1,334	100.0%	1,417	1,417	100.0%
Refrigerated Cargo									
Heavy load				707	495	70.0%	707	495	70.0%
Container	24,653	24,063	97.6%	111,397	105,821	95.0%	136,050	129,884	95.5%
Ro-Ro cargo	3,546	3,546	100.0%	9,382	9,051	96.5%	12,928	12,597	97.4%
Bulk Carrier	56,550	55,358	97.9%	110,310	101,712	92.2%	166,860	157,070	94.1%
Oil tanker	51,496	41,598	80.8%	134,535	108,281	80.5%	186,031	149,879	80.6%
Chemical tanker				162	162	100.0%	162	162	100.0%
Combination carrier				396	396	100.0%	396	396	100.0%
Gas carrier	7,395	4,262	57.6%	37,836	30,357	80.2%	45,231	34,619	76.5%
NLS Tanker	2,526	2,526	100.0%	9,078	9,078	100.0%	11,604	11,604	100.0%
High speed passenger craft									
Passenger Ship	2,927	2,927	100.0%	14,206	13,418	94.5%	17,133	16,345	95.4%
RoRo passenger ship				278	278	100.0%	278	278	100.0%
Offshore supply				232	172	74.1%	232		0.0%
Special purpose ship				212		0.0%	212		#VALUE!
Tug									
Other special activities	2,659	478	18.0%	13,581	1,291	9.5%	16,240	1,769	10.9%
Other	460	308	67.0%	1,347	662	49.1%	1,807	970	53.7%
<b>Total</b>	<b>152,295</b>	<b>135,149</b>	<b>89%</b>	<b>444,993</b>	<b>382,508</b>	<b>86%</b>	<b>597,288</b>	<b>517,485</b>	<b>87%</b>

Graph 129 - Proportion of very large inspected ships, by flag



Graph 130 - Proportion of gross tonnage for very large inspected ships, by flag



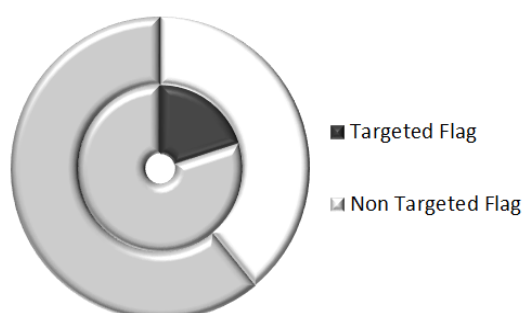
## 5.5. PSC RECORDS OF RECOGNISED ORGANISATIONS

## WHOLE FLEET GT≥500

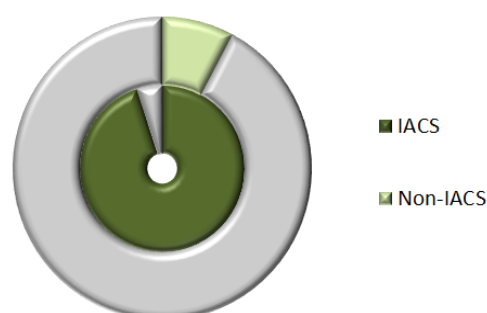
Table 140 - Total number of inspections with statutory certificates for ships GT≥500, by type of issuer

PSC Ship Type	Inspections with certificates	Issued by Flag		Issued by RO	
		Targeted	Non Targeted	IACS	Non-IACS
General cargo/Multipurpose	33,930	8,055	8,769	29,487	6,272
Refrigerated Cargo	1,495	315	633	1,482	40
Heavy load	338	83	198	334	11
Container	11,457	1,992	4,795	11,409	207
Ro-Ro cargo	2,971	710	1,582	2,834	223
Bulk Carrier	29,486	6,962	12,050	29,289	698
Oil tanker	6,715	1,118	3,963	6,614	215
Chemical tanker	8,156	993	4,876	8,126	155
Combination carrier	40	5	20	40	2
Gas carrier	2,215	313	1,249	2,197	40
NLS Tanker	4,174	56	164	4,159	16
High speed passenger craft	166	63	98	160	5
Passenger Ship	2,183	60	851	2,161	36
RoRo passenger ship	1,619	251	1,239	1,568	63
Offshore supply	1,596	313	1,109	1,559	95
Special purpose ship	310	76	184	296	20
Tug	289	61	204	283	13
Other special activities	2,179	400	741	1,970	308
Other	2,178	569	815	1,948	268
<b>Total</b>	<b>111,497</b>	<b>22,395</b>	<b>43,540</b>	<b>105,916</b>	<b>8,687</b>

Graph 131 - Total number of inspection with statutory certificates for ships GT≥500, by flag issuer



Graph 132 - Total number of inspection with statutory certificates for ships GT≥500, by recognised organisations

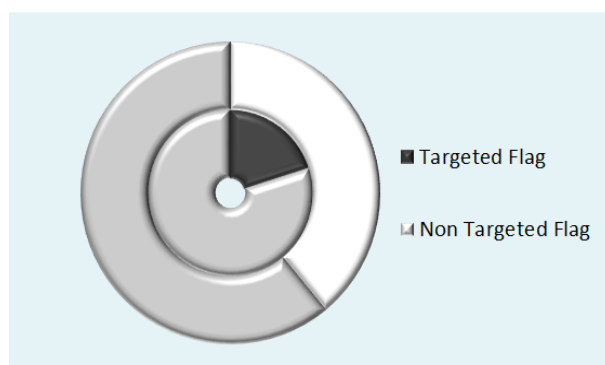


## MEDIUM SIZED SHIPS

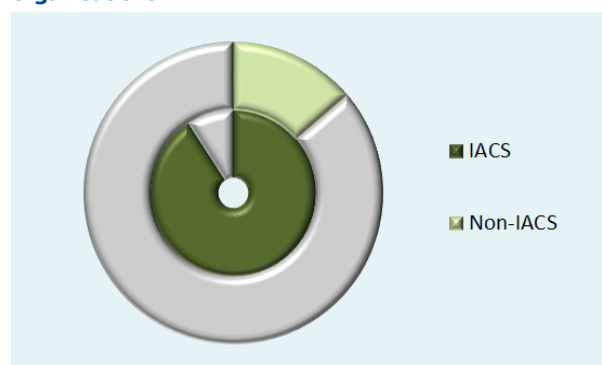
Table 141 - Total number of inspections with statutory certificates for medium sized ships, by type of issuer

PSC Ship Type	Inspections with certificates	Issued by Flag		Issued by RO	
		Targeted	Non Targeted	IACS	Non-IACS
General cargo/Multipurpose	27,057	7,956	8,281	22,625	6,253
Refrigerated Cargo	1,492	315	630	1,479	40
Heavy load	255	72	154	253	8
Container	3,827	1,009	1,287	3,810	87
Ro-Ro cargo	1,008	229	551	873	183
Bulk Carrier	9,472	2,068	3,584	9,365	370
Oil tanker	1,459	251	970	1,378	151
Chemical tanker	5,278	746	3,262	5,250	135
Combination carrier	14	5	7	14	
Gas carrier	1,414	215	759	1,397	36
NLS Tanker	1,238	41	125	1,223	15
High speed passenger craft	166	63	98	160	5
Passenger Ship	651	30	333	632	26
RoRo passenger ship	789	180	509	739	60
Offshore supply	1,594	313	1,108	1,557	95
Special purpose ship	293	67	179	279	20
Tug	289	61	204	283	13
Other special activities	1,637	235	666	1,433	298
Other	685	253	318	456	261
<b>Total</b>	<b>58,618</b>	<b>14,109</b>	<b>23,025</b>	<b>53,206</b>	<b>8,056</b>

Graph 133 - Total number of inspection with statutory certificates for medium sized ships, by flag issuer



Graph 134 - Total number of inspection with statutory certificates for medium sized ships, by recognised organisations

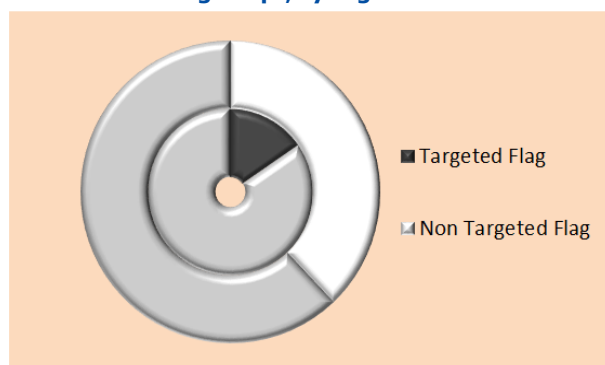


## LARGE SHIPS

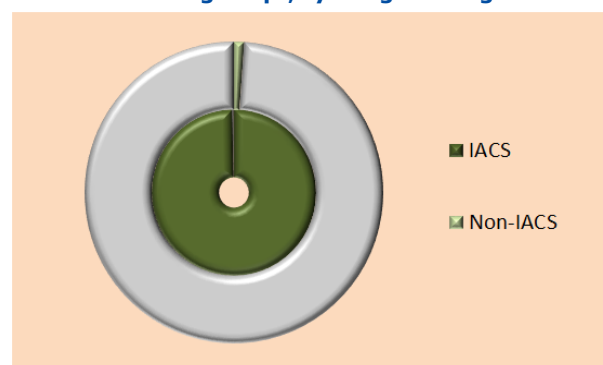
Table 142 - Total number of inspections with statutory certificates for large ships, by type of issuer

PSC Ship Type	Inspections with certificates	Issued by Flag		Issued by RO	
		Targeted	Non Targeted	IACS	Non-IACS
General cargo/Multipurpose	5,715	97	482	5,712	11
Refrigerated Cargo	3		3	3	
Heavy load	79	10	41	77	3
Container	4,176	543	1,921	4,169	37
Ro-Ro cargo	1,465	367	768	1,465	27
Bulk Carrier	15,825	3,546	6,615	15,757	264
Oil tanker	2,931	528	1,643	2,925	36
Chemical tanker	2,878	247	1,614	2,876	20
Combination carrier	13		6	13	
Gas carrier	323	61	170	322	3
NLS Tanker	2,073	6	28	2,073	1
High speed passenger craft					
Passenger Ship	488	3	203	485	2
RoRo passenger ship	806	71	707	805	3
Offshore supply	1			1	
Special purpose ship	15	9	4	15	
Tug					
Other special activities	494	161	70	492	6
Other	1,024	253	271	1,023	6
<b>Total</b>	<b>38,309</b>	<b>5,902</b>	<b>14,546</b>	<b>38,213</b>	<b>419</b>

Graph 135 - Total number of inspection with statutory certificates for large ships, by flag issuer



Graph 136 - Total number of inspection with statutory certificates for large ships, by recognised organisations

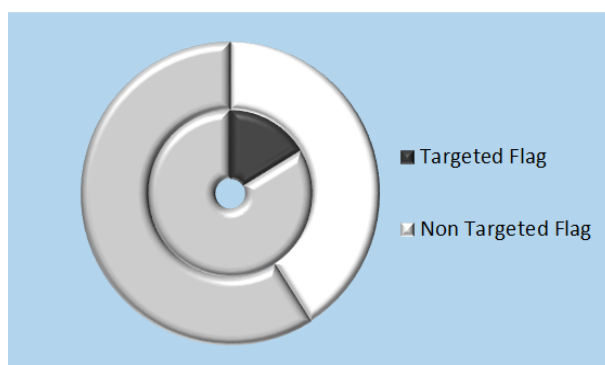


## VERY LARGE SHIPS

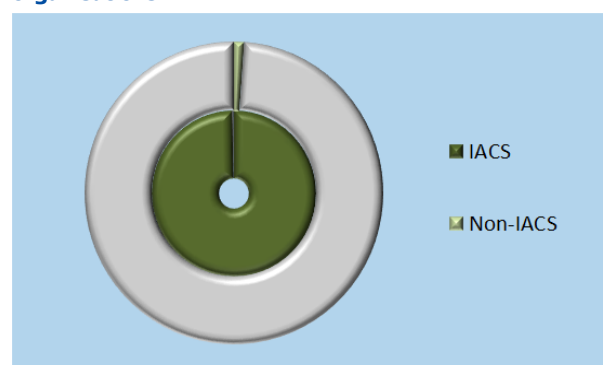
Table 143 - Total number of inspections with statutory certificates for very large ships, by type of issuer

PSC Ship Type	Inspections with certificates	Issued by Flag		Issued by RO	
		Targeted	Non Targeted	IACS	Non-IACS
General cargo/Multipurpose	1,158	2	6	1,150	8
Refrigerated Cargo					
Heavy load	4	1	3	4	
Container	3,454	440	1,587	3,430	83
Ro-Ro cargo	498	114	263	496	13
Bulk Carrier	4,189	1,348	1,851	4,167	64
Oil tanker	2,325	339	1,350	2,311	28
Chemical tanker					
Combination carrier	13		7	13	2
Gas carrier	478	37	320	478	1
NLS Tanker	863	9	11	863	
High speed passenger craft					
Passenger Ship	1,044	27	315	1,044	8
RoRo passenger ship	24		23	24	
Offshore supply	1		1	1	
Special purpose ship	2		1	2	
Tug					
Other special activities	48	4	5	45	4
Other	469	63	226	469	1
<b>Total</b>	<b>14,570</b>	<b>2,384</b>	<b>5,969</b>	<b>14,497</b>	<b>212</b>

Graph 137 - Total number of inspection with statutory certificates for very large ships, by flag issuer



Graph 138 - Total number of inspection with statutory certificates for very large ships, by recognised organisations





## 5.6. STATUTORY CERTIFICATES

Table 144 - Total number of inspections with statutory certificates for all ships, by type of certificates and issuer

Group of Certificates	Inspections	Flags as issuer		Recognised Organisations	
		Targeted	Non Targeted	IACS	Non-IACS
ITC	65,680	5,886	8,529	47,737	3,528
Load Lines	79,308	698	1,776	70,882	5,952
SOLAS/STCW	66,032	22,307	43,311	325	89
SOLAS - ISM	84,404	2,092	10,656	64,512	7,144
SOLAS - ISPS	73,920	8,723	10,599	48,924	5,674
SOLAS - IMDG	17,410	117	1,242	15,797	254
SOLAS - GC	160	1	12	146	1
SOLAS - IGC	1,162	2	33	1,122	5
SOLAS - HSC	333	2	51	274	6
SOLAS - MODU	48	1	3	44	
SOLAS - SPS	467	7	149	309	2
SOLAS - PSCC	2,913	116	1,188	1,532	77
SOLAS - CSS	80,175	1,741	3,962	68,745	5,727
SOLAS - CSR	26,066	8,614	17,243	137	72
SOLAS - INF	311		13	289	9
AFS	53,803	459	1,412	50,107	1,825
Ballast WM	415	1	10	399	5
CLC	12,269	2,698	9,447	100	24
BUNKER	39,190	12,590	26,207	312	81
MARPOL - IAPP	76,676	542	1,945	69,356	4,833
MARPOL - IOPP	80,174	600	2,561	71,160	5,853
MARPOL - ISPP	69,773	531	2,408	62,134	4,700
MARPOL - EIAPP	5,969	31	252	5,637	49
MARPOL - IBC	4,705	8	61	4,621	15
MARPOL - NLS	1,068	4	59	997	8
MARPOL - BCH	683	2	21	648	12
MARPOL - IEEC	40,587	446	1,520	37,119	1,502
MLC, 2006	49,447	1,588	8,332	37,379	2,148
Other	5,138	504	1,306	3,059	269
<b>Overall</b>	<b>71,881</b>	<b>27,351</b>	<b>39,149</b>	<b>66,359</b>	<b>6,276</b>

## Chapter 6

# 6. Trade Associations and Industry Vetting Programmes

### INTRODUCTION

Several professional maritime trade associations and industry vetting programmes supply information to Equasis on ships covered by their schemes. Such schemes are either company-based or ship-based. The company-based schemes (e.g. Intertanko) relate to certain ships types and aim to provide a mark of quality for ships covered by them. The ship-based schemes (e.g. OCIMF) provide industry inspection reports.

For each relevant ship type and size category the tables in Chapter 6.1 show the proportion of the fleet covered by each of the schemes which provide information to Equasis.

The ship types covered by each scheme are detailed in Annex V.

The tables in Chapter 6.2 show the detention rates of ships covered by each of the schemes compared with ships of the same type that are outside these schemes.

### Shipping Companies

For each ship, Equasis records the company that provides the operational management either;

- a) under third-party contract; or
- b) managing ships owned by itself or its associated companies.

In most cases the company shown in the database is responsible for the operation of the ship and the duties and responsibilities imposed by the International Safety Management Code (ISM Code). The Code applies to passenger ships and other ships of 500 GT (or greater) trading internationally.

The tables in Chapter 6.3 show the makeup of the fleet of ships in Equasis according to company fleet size, as measured by the number of ships over 100GT they operate. The tables also show the detention rates of ships over 500GT in each fleet size category.

The detention rate is the ratio between the number of detentions and the number of inspections in the Paris MoU, Tokyo MOU, Indian Ocean MoU (IO MoU), USCG, Viña del Mar MoU, Mediterranean MoU and Caribbean MoU recorded in 2016.

### RESULTS

Table 145 indicates that the majority of ships are not covered by the trade associations and/or industry vetting programmes providing data to Equasis, with the exception of OCIMF that covers about 68% of the total ships of the relevant categories (see annex V) and about 92% in tonnage. Intertanko covers slightly over a quarter (28%) of the total number of ships but it has half (50%) tonnage coverage of the relevant ship categories.

Tables 147 to 150 suggest that the ship categories in the medium, large and very large size categories covered by one of the trade associations and industry vetting programs are usually less inspected in the seven regimes providing data to Equasis than those ships which are outside the trade associations.

The same tables indicate that ships who are members of a trade association or industry vetting programme were detained less often than those that were not members. For example the detention rate of Intercargo ships in all ship size categories (table 147) was 1.3% compared with 3.3% for those who are not members (and of the targeted ship types as described in Annex V). It is a similar picture for ships that are

members of Intertanko, Intermanager, Green Award, CDI and OCIMF.

Table 151 shows that slightly over half (51.2%) of the companies included in the data collected by Equasis operate just one ship. 84% companies operate five or fewer ships and account for 30.8% of the fleet over 500GT by number.

Graph 140 reveals that ships operated by larger companies had a much lower detention rate than those operated by smaller companies.

Table 152 shows that companies with more than 100 ships have a detention rate around 1.04%, while one-ship and two-ship companies had rates of 6.28% and 4.83% respectively.

## 6.1. SCHEME STATUS

Table 145 - Total number of ships, by size and vetting programmes and trade associations

Scheme	Medium <sup>(1)</sup>		Large <sup>(2)</sup>		Very Large <sup>(3)</sup>		Total	
	Within	Outside	Within	Outside	Within	Outside	Within	Outside
<b>Intertanko</b>	1,074	6,964	1,487	1,479	1,195	1,004	3,756	9,447
% of Total	28.6%	73.7%	39.6%	15.7%	31.8%	10.6%		
<b>Intercargo</b>	237	15,385	695	5,364	336	1,347	1,268	22,096
% of Total	18.7%	69.6%	54.8%	24.3%	26.5%	6.1%		
<b>InterManager</b>	283	22,251	454	8,234	256	3,206	993	33,691
% of Total	28.5%	66.0%	45.7%	24.4%	25.8%	9.5%		
<b>Green Award</b>	7	11,778	31	8,765	210	3,663	248	24,206
% of Total	2.8%	48.7%	12.5%	36.2%	84.7%	15.1%		
<b>CDI</b>	1,643	3,077	419	1,180			2,062	4,257
% of Total	79.7%	72.3%	20.3%	27.7%				
<b>OCIMF</b>	4,084	3,954	2,778	188	2,103	96	8,965	4,238
% of Total	45.6%	93.3%	31.0%	4.4%	23.5%	2.3%		

Source: Equasis <sup>(1)</sup> 500≤GT<25.000 - <sup>(2)</sup> 25.000≤GT<60.000 - <sup>(3)</sup> GT≥60.000

Table 146 - Gross tonnage (in 1000 gt) of ships, by size and vetting programmes and trade associations

Scheme	Medium <sup>(1)</sup>		Large <sup>(2)</sup>		Very Large <sup>(3)</sup>		Total	
	Within	Outside	Within	Outside	Within	Outside	Within	Outside
<b>Intertanko</b>	13,675	35,299	56,031	53,900	126,763	110,773	196,469	199,972
% of Total	7.0%	17.7%	28.5%	27.0%	64.5%	55.4%		
<b>Intercargo</b>	4,833	101,267	26,205	197,394	33,332	133,897	64,370	432,558
% of Total	7.5%	23.4%	40.7%	45.6%	51.8%	31.0%		
<b>InterManager</b>	4,186	143,821	16,198	302,686	27,478	331,336	47,862	777,843
% of Total	8.7%	18.5%	33.8%	38.9%	57.4%	42.6%		
<b>Green Award</b>	164	104,827	1,503	324,536	22,712	381,467	24,379	810,830
% of Total	0.7%	12.9%	6.2%	40.0%	93.2%	47.0%		
<b>CDI</b>	15,697	20,922	14,419	37,070			30,116	57,992
% of Total	52.1%	36.1%	47.9%	63.9%				
<b>OCIMF</b>	35,445	13,529	103,128	6,803	225,923	11,613	364,496	31,945
% of Total	9.7%	42.4%	28.3%	21.3%	62.0%	36.4%		

Source: Equasis <sup>(1)</sup> 500≤GT<25.000 - <sup>(2)</sup> 25.000≤GT<60.000 - <sup>(3)</sup> GT≥60.000

## 6.2. SAFETY PERFORMANCE

## WHOLE FLEET GT≥500

Table 147 - Safety performance of ships, by inspections and detentions rates<sup>(\*)</sup>- 2016

Scheme	Detention rate			Detentions			Inspections		
	Within	Outside	Total	Within	Outside	Total	Within	Outside	Total
<b>Intertanko</b>	0.7%	1.8%	1.2%	91	225	316	12,986	12,720	25,706
in % of total				28.8%	71.2%		50.5%	49.5%	
<b>Intercargo</b>	1.3%	3.3%	3.1%	40	1,324	1,364	3,149	40,190	43,339
in % of total				2.9%	97.1%		7.3%	92.7%	
<b>Intermanager</b>	0.8%	3.0%	2.8%	41	1,511	1,552	5,223	50,058	55,281
in % of total				2.6%	97.36%		9.4%	90.6%	
<b>Green Award</b>	0.8%	2.1%	1.9%	47	699	746	5,928	33,564	39,492
in % of total				6.3%	93.70%		15.0%	85.0%	
<b>CDI</b>	0.9%	1.9%	1.5%	28	106	134	3,265	5,609	8,874
in % of total				20.9%	79.1%		36.8%	63.2%	
<b>OCIMF</b>	0.8%	2.1%	1.6%	47	169	216	5,928	7,896	13,824
in % of total				21.8%	78.2%		42.9%	57.1%	

Source: Equasis - <sup>(\*)</sup>Detentions in Paris MoU, Tokyo MoU, IO MoU, USCG, VDM, Med MoU, Caribbean MoU divided by total number of inspections

## MEDIUM SIZED SHIPS

Table 148 - Safety performance of medium sized<sup>(1)</sup> ships, by inspections and detentions rates<sup>(\*)</sup>- 2016

Scheme	Detention rate			Detentions			Inspections		
	Within	Outside	Total	Within	Outside	Total	Within	Outside	Total
<b>Intertanko</b>	0.8%	2.6%	2.1%	13	126	139	1,641	4,853	6,494
in % of total				9.4%	90.6%		25.3%	74.7%	
<b>Intercargo</b>	0.5%	4.2%	4.1%	4	1,028	1,032	777	24,670	25,447
in % of total				0.4%	99.6%		3.1%	96.9%	
<b>Intermanager</b>	0.7%	3.9%	3.7%	10	1,141	1,151	1,340	29,504	30,844
in % of total				0.9%	99.13%		4.3%	95.7%	
<b>Green Award</b>	0.8%	2.5%	2.3%	13	328	341	1,641	13,328	14,969
in % of total				3.8%	96%		11.0%	89.0%	
<b>CDI</b>	0.8%	2.1%	1.7%	13	89	102	1,589	4,266	5,855
in % of total				12.7%	87.3%		27.1%	72.9%	
<b>OCIMF</b>	0.8%	2.6%	2.1%	13	126	139	1,641	4,853	6,494
in % of total				9.4%	90.6%		25.3%	74.7%	

Source: Equasis - <sup>(1)</sup> 500≤GT<25.000 - <sup>(\*)</sup>Detentions in Paris MoU, Tokyo MoU, IO MoU, USCG, VDM, Med MoU, Caribbean MoU divided by total number of inspections

## LARGE SHIPS

Table 149 - Safety performance of large<sup>(1)</sup> ships, by inspections and detentions rates<sup>(\*)</sup>- 2016

Scheme	Detention rate			Detentions			Inspections		
	Within	Outside	Total	Within	Outside	Total	Within	Outside	Total
<b>Intertanko</b>	0.7%	1.3%	0.9%	51	70	121	7,672	5,589	13,261
in % of total				42.1%	57.9%		57.9%	42.1%	
<b>Intercargo</b>	1.1%	1.8%	1.7%	19	231	250	1,779	12,946	14,725
in % of total				7.6%	92.4%		12.1%	87.9%	
<b>Intermanager</b>	0.9%	1.7%	1.6%	25	276	301	2,669	16,637	19,306
in % of total				8.3%	92%		13.8%	86.2%	
<b>Green Award</b>	0.9%	1.7%	1.6%	26	276	302	2,901	16,172	19,073
in % of total				8.6%	91.39%		15.2%	84.8%	
<b>CDI</b>	0.9%	1.3%	1.1%	15	17	32	1,676	1,343	3,019
in % of total				46.9%	53.1%		55.5%	44.5%	
<b>OCIMF</b>	0.9%	1.4%	1.1%	26	30	56	2,901	2,144	5,045
in % of total				46.4%	53.6%		57.5%	42.5%	

Source: Equasis - <sup>(1)</sup> 25.000≤GT<60.000 - <sup>(\*)</sup>Detentions in Paris MoU, Tokyo MoU, IO MoU, USCG, VDM, Med MoU, Caribbean MoU divided by total number of inspections

## VERY LARGE SHIPS

Table 150 - Safety performance of very large<sup>(1)</sup> ships, by inspections and detentions rates<sup>(\*)</sup>- 2016

Scheme	Detention rate			Detentions			Inspections		
	Within	Outside	Total	Within	Outside	Total	Within	Outside	Total
<b>Intertanko</b>	0.7%	1.3%	0.9%	27	29	56	3,673	2,278	5,951
in % of total				48.2%	51.8%		61.7%	38.3%	
<b>Intercargo</b>	2.9%	2.5%	2.6%	17	65	82	593	2,574	3,167
in % of total				20.7%	79.3%		18.7%	81.3%	
<b>Intermanager</b>	0.5%	2.4%	1.9%	6	94	100	1,214	3,917	5,131
in % of total				6.0%	94%		23.7%	76.3%	
<b>Green Award</b>	0.6%	2.3%	1.9%	8	95	103	1,386	4,064	5,450
in % of total				7.8%	92%		25.4%	74.6%	
<b>CDI</b>	0.0%					0			0
in % of total									
<b>OCIMF</b>	0.6%	1.4%	0.9%	8	13	21	1,386	899	2,285
in % of total				38.1%	61.9%		60.7%	39.3%	

Source: Equasis - <sup>(1)</sup> GT≥60.000 - <sup>(\*)</sup>Detentions in Paris MoU, Tokyo MoU, IO MoU, USCG, VDM, Med MoU, Caribbean MoU divided by total number of inspections

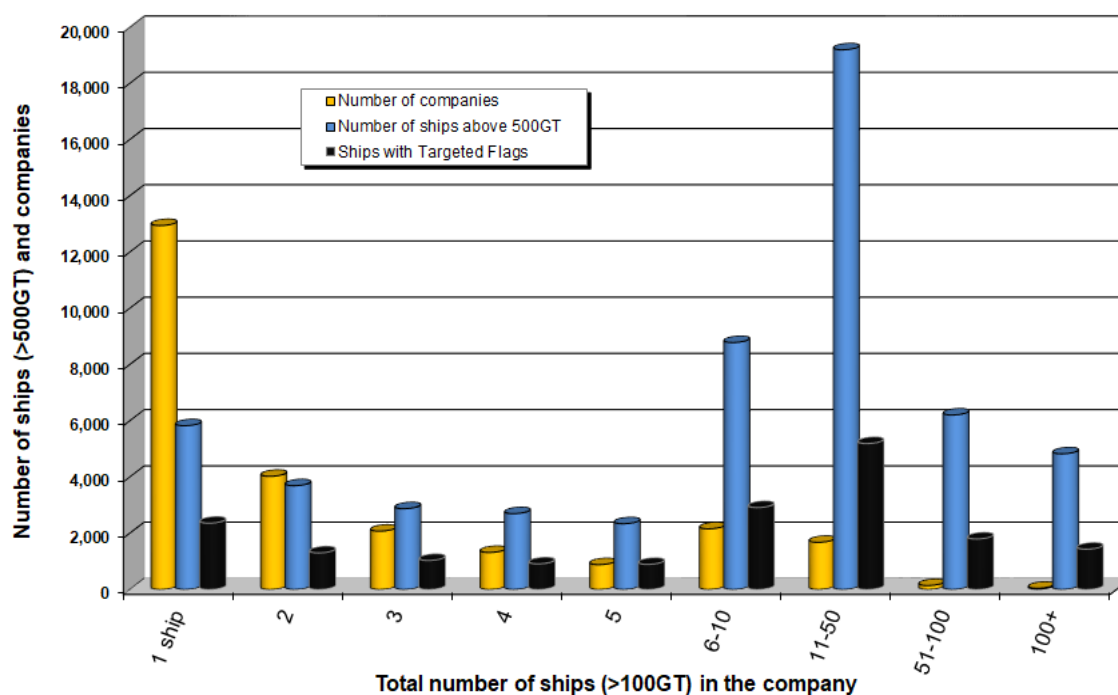
## 6.3. COMPANY PERFORMANCE

Table 151 - Total number of companies and ships, by fleet size and flag

Company fleet size (by number of ships GT≥100)	Number of companies		Number of ships <sup>(1)</sup>		Number of ships under targeted flag <sup>(1)</sup>		Total share of ships under targeted flag <sup>(2)</sup>
1 ship	12,946	51.2%	5,826	10.3%	2,361	13.2%	40.5%
2	4,027	15.9%	3,693	6.5%	1,304	7.3%	35.3%
3	2,077	8.2%	2,875	5.1%	1,034	5.8%	36.0%
4	1,319	5.2%	2,699	4.8%	913	5.1%	33.8%
5	885	3.5%	2,340	4.1%	895	5.0%	38.2%
6-10	2,159	8.5%	8,785	15.6%	2,915	16.3%	33.2%
11-50	1,680	6.6%	19,196	34.0%	5,193	29.1%	27.1%
51-100	142	0.6%	6,207	11.0%	1,799	10.1%	29.0%
100+	45	0.2%	4,827	8.6%	1,436	8.0%	29.7%
<b>Total</b>	<b>25,280</b>	<b>100%</b>	<b>56,448</b>	<b>100%</b>	<b>17,850</b>	<b>100%</b>	<b>31.6%</b>

Source: Equasis - <sup>(1)</sup> Ships GT≥500 - <sup>(2)</sup> Within the same company fleet size category

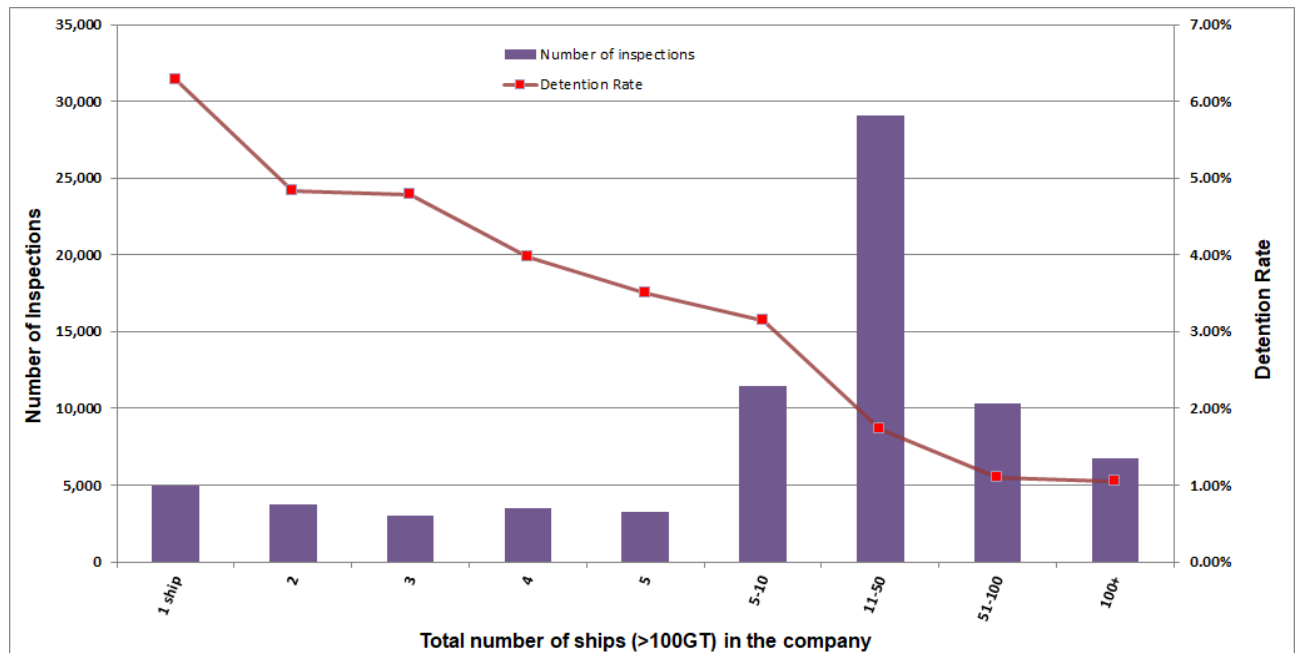
Graph 139 -Total number of companies and ships GT≥500, by company fleet size



**Table 152 - Total number of inspections and detention rates<sup>(\*)</sup>, by company fleet size - 2016**

Company fleet size (by number of ships GT≥100)	Number of inspections		Number of detentions		% of ships detained <sup>(1)</sup>
1 ship	4,951	6.5%	311	16.1%	6.28%
2	3,709	4.9%	179	9.3%	4.83%
3	3,032	4.0%	145	7.5%	4.78%
4	3,502	4.6%	139	7.2%	3.97%
5	3,260	4.3%	114	5.9%	3.50%
5-10	11,468	15.1%	361	18.7%	3.15%
11-50	29,100	38.3%	501	25.9%	1.72%
51-100	10,279	13.5%	113	5.8%	1.10%
100+	6,724	8.8%	70	3.6%	1.04%
<b>Total</b>	<b>76,025</b>	<b>100%</b>	<b>1,933</b>	<b>100%</b>	<b>2.54%</b>

Source: Equasis - <sup>(1)</sup>Within the same company fleet size category - <sup>(\*)</sup> Detentions in Paris MoU, Tokyo MoU, IO MoU, USCG and Viña del Mar divided by total number of inspections

**Graph 140 -Total number of inspections and detention rate, by company fleet size**



# Annexes

## Annex I. Ship type aggregations

The category "Other" is not considered in the scope of these statistics and contains ship types of active ships not falling in one of the main categories.

Changes made in comparison to the last edition are marked in **bold** \*.

### General Cargo Ships

Deck Cargo Ship  
General Cargo Ship  
Palletized Cargo Ship  
Passenger/General Cargo Ship  
Refrigerated Cargo Ship

### Specialized Cargo Ships

Barge Carrier  
Heavy Load Carrier  
Livestock Carrier  
Nuclear Fuel Carrier

### Container Ships

Container Ship  
Passenger/Container Ship

### Ro-Ro Cargo Ships

Container Ro-Ro Cargo Ship  
Ro-Ro Cargo Ship  
Vehicles Carrier

### Bulk Carriers

Aggregates Carrier  
Bulk Carrier  
Bulk/Caustic Soda Carrier  
Bulk Dry Storage Ship  
Bulk/Oil Carrier  
**Bulk/Sulphuric Acid Carrier \***  
Cement Carrier  
Limestone Carrier  
Ore Carrier  
Ore/Oil Carrier  
Powder Carrier  
Refined Sugar Carrier  
Self-Discharging Bulk Carrier  
Urea Carrier  
Wood Chips Carrier

### Oil and Chemical Tankers

Chemical Tanker  
Chemical/Oil Products Tanker  
Crude Oil Tanker  
Oil Products Tanker  
Vegetable Oil Tanker

### Gas Tankers

CO2 Tanker  
Combination Gas Tanker  
LNG Tanker  
LPG Tanker

### Other Tankers

Asphalt/Bitumen Tanker  
Bunkering Tanker  
Caprolactam Tanker  
Edible Oil Tanker  
Fruit Juice Tanker  
Latex Tanker  
Molasses Tanker  
Water Tanker  
Wine Tanker

### Passenger Ships

Passenger (Cruise) Ship  
Passenger Ship  
Passenger/Landing Craft  
Passenger/Ro-Ro Cargo Ship

### Offshore Vessels

Accom. Offshore Supp. Vessel  
Drilling Ship  
FSO, Oil  
Mining Vessel  
Offshore Processing Ship  
Offshore Supply Ship  
Offshore Support Vessel  
Offshore Tug/Supply Ship  
Pipe Burying Vessel  
Pipe-Layer  
Production Testing Vessel  
Standby-Safety Vessel  
Supply Vessel  
Well-Stimulation Vessel

### Service Ships

Buoy/Lighthouse Vessel  
Cable-Layer  
Crane Ship  
Dredger  
Fire-Fighting Vessel  
Hopper Dredger  
Hospital Vessel  
Icebreaker  
Kelp Dredger  
Patrol Vessel  
Pilot Vessel  
Pollution Control Vessel  
Power Station Vessel  
Research Vessel  
Salvage Ship  
Search & Rescue Vessel  
Tank-Cleaning Vessel  
Training Ship  
Trans-shipment Vessel  
Utility Vessel  
Waste Disposal Vessel  
Work/Repair Vessel

### Tugs

Pusher Tug  
Tug

### Other (Out of the scope)

Anchor Hoy  
Cable Repair Ship  
Coal/Oil Mixture Tanker  
Crewboat  
Exhibition Vessel  
Fish Carrier  
Fish Factory Ship  
Fishing Support Vessel  
Fishing Vessel  
Landing Craft  
Launch (unspecified)  
Live-Fish Carrier  
Mooring Vessel  
Motor Hopper  
Pearl Shells Carrier  
Sail Training Ship  
Sailing Vessel  
Seal-Catcher  
Trenching Support Vessel  
Unknown  
Vessel (function unknown)  
Whale-Catcher

## Annex II. Targeted Flag States 2016

The list of targeted flag is based on the 2016 annual reports of the Paris MoU [1], the Tokyo MoU [2] and the US Coast Guard [3], as published in that year.

<u>A</u>	Antigua and Barbuda [3]	<u>N</u>	Niue [2]
<u>B</u>	Barbados [2] Belize [1, 3] Bolivia [3]	<u>P</u>	Palau [1, 2] Panama [3]
<u>C</u>	Cambodia [1, 2] Comoros [1] Congo, Republic of the [1] Cook Islands [1] Cyprus [3]	<u>S</u>	Samoa [3] Sierra Leone [1, 2] St Vincent and Grenadines [1, 3] Saint Kitts and Nevis [1]
<u>G</u>	Greece [3]	<u>T</u>	Taiwan [3] Tanzania [1, 2, 3] Thailand [3] Togo [1, 2] Turkey [3]
<u>I</u>	India [3] Indonesia [2]	<u>V</u>	Vanuatu [1, 3]
<u>K</u>	Korea, Democratic Republic [2]		
<u>M</u>	Micronesia, Federate States of [2] Moldova [1] Mongolia [2]		

## Annex III. Default PSC Ship types

Ship types in **red** correspond to ship types that are not in the scope of these statistics (or for which no active ship is yet known in the world fleet of Equasis).

Although similar in layout, Annex III cannot be compared to Annex I given that the purpose of this Annex is to attribute a default PSC ship type to ships and not to create categories of ships as in Annex I.

This Annex was established mainly through statistical analysis and direct comparisons between IHS Markit Maritime & Trade ship types and PSC ship types.

### General Cargo/Multipurpose

Aggregates Carrier  
Barge Carrier  
Cement Carrier  
Deck Cargo Ship  
General Cargo Ship  
**Landing Craft**  
Latex Tanker  
Limestone Carrier  
Molasses Tanker  
Palletised Cargo Ship  
Passenger/Landing Craft  
Refined Sugar Carrier

### Refrigerated Cargo

**Fish Carrier**  
**Fish Factory Ship**  
Fruit Juice Tanker  
Refrigerated Cargo Ship

### Heavy load

Heavy Load Carrier

### Container

Container Ship

### Ro-Ro cargo

Container Ro-Ro Cargo Ship  
Ro-Ro Cargo Ship

### Bulk Carrier

Bulk Carrier  
Bulk Dry Storage Ship  
Bulk/Caustic Soda Carrier  
Bulk/Sulphuric Acid Carrier  
Ore Carrier  
Self-Discharging Bulk Carrier

### Oil tanker

Asphalt/Bitumen Tanker  
Bunkering Tanker  
Crude Oil Tanker  
FSO, Oil  
Oil Products Tanker  
Ore/Oil Carrier  
Water Tanker

### Chemical tanker

Chemical Tanker  
Chemical/Oil Products Tanker  
Vegetable Oil Tanker

### Combination carrier

Bulk/Oil Carrier  
**Coal/Oil Mixture Tanker**

### Gas carrier

CO<sub>2</sub> Tanker  
Combination Gas Tanker (LNG/LPG)  
LNG Tanker  
LPG Tanker

### NLS Tanker

Wine Tanker

### High speed passenger craft

*None*

### Passenger Ship

**Exhibition Vessel**  
Passenger (Cruise) Ship  
Passenger Ship  
**Sailing Vessel**

### RoRo passenger ship

Accommod. Offshore Supp Vessel  
Passenger/Ro-Ro Cargo Ship

### Offshore supply

Offshore Supply Ship  
Offshore Support Vessel  
Offshore Tug/Supply Ship  
Pipe-Layer  
Well-Stimulation Vessel

### Special purpose ship

Cable-Layer  
**Cable Repair Ship**  
Crane Ship  
Fire-Fighting Vessel  
**Fishing Support Vessel**  
Icebreaker  
Power Station Vessel  
**Sail Training Ship**

### Tug

Pusher Tug  
Tug

### Other special activities

**Anchor Hoy**  
Buoy/Lighthouse Vessel  
Caprolactam Tanker  
Drilling Ship  
Edible Oil Tanker  
Hopper Dredger  
Hospital Vessel  
Kelp Dredger  
**Launch (Unspecified)**  
Mining Vessel  
**Mooring Vessel**  
**Motor Hopper**  
Nuclear Fuel Carrier  
Offshore Processing Ship  
Passenger/Container Ship  
Passenger/General Cargo Ship  
Patrol Vessel  
**Pearl Shells Carrier**  
Pilot Vessel  
Pipe Burying Vessel  
Pollution Control Vessel  
Powder Carrier  
Production Testing Vessel  
Research Vessel  
Salvage Ship  
**Seal-Catcher**  
Search & Rescue Vessel  
Standby-Safety Vessel  
Supply Vessel

Tank-Cleaning Vessel  
Training Ship  
Trans-shipment Vessel  
**Trenching Support Vessel**  
Urea Carrier  
Utility Vessel  
**Vessel (function unknown)**  
Waste Disposal Vessel  
**Whale-Catcher**  
Wood Chips Carrier  
Work/Repair Vessel

### Other

**Crewboat**  
Dredger  
**Fishing Vessel**  
**Live-Fish Carrier**  
Livestock Carrier  
**Unknown**  
Vehicles Carrier

## Annex IV. List of Statutory Certificates, by conventions

### SOLAS (and STCW)

#### **SOLAS/STCW**

Minimum safe manning document

#### **SOLAS - INF**

International Certificate of Fitness for the Carriage of Cargo

#### **SOLAS - ISM**

Document of Compliance  
Safety Management Certificate

#### **SOLAS - ISPS**

International Ship Security Certificate

#### **SOLAS - IMDG**

Document of compliance with the special requirements for ships carrying dangerous goods

#### **SOLAS - GC**

Certificate of Fitness for the Carriage of Liquefied Gases in Bulk

#### **SOLAS - IGC**

International Certificate of Fitness for the Carriage of Liquefied Gases in Bulk

#### **SOLAS - HSC**

High-Speed Craft Safety Certificate

#### **SOLAS - MODU**

Mobile Offshore Drilling Unit Safety Certificate

#### **SOLAS - SPS**

Special Purpose Ship Safety Certificate

#### **SOLAS - PSSC**

Passenger Ship Safety Certificate, including Record of Equipment

#### **SOLAS - CLC**

Certificate of insurance or other financial security in respect of civil liability for oil pollution damage

#### **SOLAS/CSS**

Cargo Ship Safety Certificate, including Record of Equipment  
Cargo Ship Safety Equipment Certificate, including Record of Equipment  
Cargo Ship Safety Construction Certificate  
Cargo Ship Safety Radio Certificate, including Record of Equipment

#### **SOLAS/CSR**

Continuous Synopsis Record

#### **SOLAS/INF**

International Certificate of Fitness for the Carriage of Cargo

### MARPOL

#### **MARPOL - IAPP**

International Air Pollution Prevention Certificate

#### **MARPOL - IEEC**

International Energy Efficiency Certificate

#### **MARPOL - IOPP**

International Oil Pollution Prevention Certificate

#### **MARPOL - ISPP**

International Sewage Pollution Prevention Certificate

#### **MARPOL - EIAPP**

Engine International Air Pollution Prevention Certificate

#### **MARPOL - IBC**

International Certificate of Fitness for the Carriage of Dangerous Chemicals in Bulk

#### **MARPOL - NLS**

International Pollution Prevention Certificate for the Carriage of Noxious Liquid Substances in Bulk

#### **MARPOL - BCH**

Certificate of Fitness for the Carriage of Dangerous Chemicals in Bulk

#### **MARPOL - CAS**

Condition Assessment Scheme Statement of Compliance

### Other Conventions

#### **ITC**

International Tonnage Certificate

#### **Load Lines**

International Load Line Certificate

#### **AFS**

Declaration of AFS Compliance  
International Anti-Fouling System Certificate  
Statement of AFS Compliance

#### **Ballast WM**

Ballast Water Management Certificate

#### **CLC**

Certificate of insurance or other financial security in respect of civil liability for oil pollution damage

#### **BUNKER**

Certificate of insurance or other financial security in respect of civil liability for bunker oil pollution damage

#### **MLC**

Maritime Labour Certificate

## Annex V. Ships in the scope of Trade Association and vetting programs

In Chapter 6, various figures from trade association and vetting programs are compared to a base population of ships of a relevant ship type. This Annex gives the relevant ship types for each trade association and vetting programs

### Intertanko

“Gas Tankers”  
and “Oil & Chemical Tankers”  
(as described in Annex I)

### Intercargo

“Bulk Carriers”  
and “General Cargo Ships”  
(as described in Annex I)

*Note that Intercargo deals normally with ships with deadweight over 10,000. This need to be kept in mind when analysing figures of medium sized ships associated with Intercargo.*

### Intermanager

“Bulk Carriers”  
“General Cargo Ships”  
and “Oil & Chemical Tanker”  
(as described in Annex I)

### Green Award

#### **A subset of Bulk Carriers:**

Aggregates Carrier  
Bulk Carrier  
Bulk Dry Storage Ship  
Cement Carrier  
Limestone Carrier  
Ore Carrier  
Powder Carrier  
Refined Sugar Carrier  
Self-Discharging Bulk Carrier  
Wood Chips Carrier

#### **Gas Tankers:**

CO2 Tanker  
LNG Tanker  
LPG Tanker

#### **Oil & Chemical Tankers:**

Chemical Tanker  
Chemical/Oil Products Tanker  
Crude Oil Tanker  
Oil Products Tanker

### CDI

#### **The following Tankers:**

Chemical Tanker  
Chemical/Oil Products Tanker  
LPG Tanker  
Vegetable Oil Tanker

### OCIMF

“Gas Tankers”  
and “Oil & Chemical Tanker”  
(as described in Annex I)