



PORT STATE CONTROL IN THE BLACK SEA REGION

Annual Report 2020



BLACK SEA PORT STATE CONTROL SECRETARIAT
ISTANBUL / TURKEY

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Foreword

We are pleased to present the twentieth issue of the Annual Report on Port State Control in the Black Sea region which is published under the auspices of the Port State Control Committee of the Black Sea MOU.

Port State Control is of particular importance to the BS MOU member Authorities due to the role of shipping in region's trade, the sensitivity of the Black Sea basin and its coastline to environmental damage. PSC inspections are conducted to ensure that foreign ships visiting the Black Sea ports are seaworthy, do not pose a pollution risk, provide a healthy and safe environment and comply with relevant international regulations and within the scope of the member Authorities' national governing laws and regulations.

This PSC Annual report covers the period between 1st January and 31st December 2020, a year dominated by the global Covid-19 pandemic that changed the world, affected millions of people and also caused significant impact on BS MOU activities. During this period national measures affecting the port State control regime was implemented by the BS MOU member Authorities due to ongoing pandemic.

In 2020, the BS MOU member Authorities conducted a total of 5,721 inspections, representing slight 5.22 per cent decrease as compared with 6,036 initial inspections in 2019. The regional inspection rate is 74.69% which shows minor decrease compared with 2019 (75.31%). A total of 241 detentions were warranted to ships found with serious deficiencies and compared with 212 detentions in 2019 the number of detentions increased as 13.68 per cent. The detention percentage in 2020 was 4.21% which is also higher than 2019 (3.51%).

During 2020 a total of 15,442 deficiencies were recorded. The average number of deficiencies per inspection in 2020 slightly decreases as 3.22 to 2.70 as compared with 2019.

The most significant number of operational deficiencies found in 2020 was in the area of safety of navigation, followed by life saving appliances, health protection, medical care, social security, fire safety measures and structural conditions which constitutes 57.1% of the total deficiencies found.

International Safety Management (ISM) related issues accounted for 9.88 per cent of all detainable deficiencies in the 2020 reporting period which is 1.15 per cent increase compared with 2019. Thereby this area remains a significant concern and the BS MOU continues to scrutinize vessels coming into region for weaknesses in their Safety Management Systems.

In further promoting safety and environment protection, Concentrated Inspection Campaign(CIC)s are conducted in conjunction with the Paris and Tokyo Memorandas, between 1st September and 30th November. In 2020, the CIC would have been carried out with respect to the Stability in General. However, BS MOU authorities have agreed to postpone all CICs by one year, as a consequence of the Covid-19 Pandemic. The CIC on Stability will therefore shift from 2020 to 2021 and the CIC on STCW from 2021 to 2022.

Through the launching new inspection scheme the BS MOU has further increased the pressure on the substandard ships to encourage them to improve their performance or to force them to leave the region.

Captain Alexander ILIEV
Chairman
BS MOU PSC Committee

Onur TURHAN
Secretary
BS MOU Secretariat

10 Year Summary of Inspections, Detentions and Deficiency Rates

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Number of Inspections	4,657	4,607	5,080	5,092	4,997	5,066	5,112	5,214	6,036	5,721
Number of Detentions	249	215	184	151	218	229	283	278	212	241
Detention %	5.35	4.67	3.62	2.97	4.36	4.52	5.54	5.33	3.51	4.21

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Number of Deficiencies	19,255	17,916	19,022	18,350	18,094	18,266	21,006	21,450	19,422	15,442
Deficiencies / Inspection	4.13	3.89	3.74	3.60	3.62	3.61	4.11	4.11	3.22	2.70
Deficiencies / Inspection with Deficiencies	6.10	5.97	5.75	6.01	6.40	6.42	6.96	6.91	5.71	5.45

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Number of Detainable Deficiencies	881	669	630	506	734	822	962	948	653	678
Detainable Deficiencies / Detention	3.54	3.11	3.42	3.35	3.37	3.59	3.39	3.41	3.08	2.81

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2020 Annual Report

Overview

The Governments of Black Sea States in the “Strategic Action Plan for the Rehabilitation and Protection of the Black Sea (adopted at the Ministerial Conference held in Istanbul, 30-31 October, 1996) decided to launch a harmonised system of port State control through the adoption of a Memorandum of Understanding on port State control.

The Memorandum of Understanding on Port State Control in the Black Sea Region (BS MOU) was completed and signed in Istanbul, Turkey on 7 April 2000 by representatives of the Maritime Authorities of Bulgaria, Georgia, Romania, the Russian Federation, Turkey and Ukraine.

On December 19, 2000 the Memorandum entered into force in the Black Sea region for three maritime States accepted the BS MOU. By December 12, 2002 the BS MOU entered into effect for all maritime States in the Black Sea, namely: Bulgaria, Georgia, Romania, the Russian Federation, Turkey and Ukraine.

The Port State Control Committee established under the Memorandum monitors and controls implementation and on-going operation of the Memorandum. The Committee consists of representatives of the maritime Authorities of the six member States and observers representatives from the International Maritime Organization (IMO), the International Labour Organization (ILO). The Committee granted observer status to the USCG, Paris MOU, MED MOU, West and Central Africa MOU, Riyadh MOU, the State Maritime Administration of the Republic of Azerbaijan, the State Maritime Administration of the Republic of Kazakhstan, the State Maritime Administration of the Republic of Moldova and Commission on the Protection of the Black Sea Against Pollution.

To coordinate daily activity of the organization, on the kind proposal by the Maritime Administration of Turkey, the MOU Authorities decided to establish Headquarter and the Secretariat in Istanbul.

The Russian Federation has developed and launched the Black Sea Information System (BSIS), PSC computerized information system for the Black Sea MOU, basing on the technique used for the Asia Pacific Computerized Information System (APCIS), PSC information system for the Tokyo MOU, which was also developed by the Russian Federation. The BSIS provides necessary tools to assist PSC Officers to conduct inspections. PSC Officers use a comprehensive database which contains data received from a variety of sources on a large number of vessels. This information includes the general particulars of a vessel, and its PSC inspection history.

To provide industry with the MOU news, procedures and inspection results the Black Sea MOU launched the internet web-site at www.bsmou.org containing general information on MOU, regularly updated detention list. Taking into account of successful operation of the BSIS, it was decided to start open publication of PSC inspection results in internet through a direct link to the MOU database providing on-the-fly inspection results.

This annual report outlines recent activities on port State control in the Black Sea region, as well as international perspectives on port State control and includes the statistical port State inspection data conducted by the member Authorities of the BS MOU during the year 2020.

Black Sea Information System (BSIS)

The Black Sea Information System has been established in the Russian Federation, for the purpose of exchanging information on port State inspections, in order to make available to Authorities information on inspection of ships in other regional ports to assist them in their selection of foreign flag ships to be inspected and in the exercise of port State control on selected ships; and provide effective information exchange facilities regarding port State control in the region.

As the further step for providing more transparent and timely information on the BS MOU PSC activities, the Committee gave its approvals to on-line publication of the ship risk profile, PSC inspection and detention data on the Memorandum web-site.

Port State Control Committee

The Twenty-first Meeting of the Black Sea Port State Control Committee which was originally scheduled to take place in Constanta, Romania from 17 to 19 March 2020, was postponed until further notice, in response to the situation with regard to the Covid-19 pandemic. The Committee meeting was not held in 2020 due to the Covid-19 pandemic and subsequently all member Authorities unanimously agreed to organize the meeting by virtual means.

Concentrated Inspection Campaign

Concentrated Inspection Campaign (CIC) on Stability in General was postponed from 2020 to 2021 due the Covid-19 pandemic.

Therefore CICs for 2020 and the coming years was rescheduled:

2020	NO CIC
2021	CIC on Stability (in general)
2022	CIC on STCW

All member Authorities agreed to participate into the CIC on Stability in general during the period of 1st September to 30th November 2021.

Training

In response to the situation with regard to the Covid-19 pandemic, all training courses and PSCO Exchange Programmes were cancelled by all member States.

Interregional Cooperation

The BS MOU currently has 6 members, some with dual or even triple membership: Bulgaria, Romania and the Russian Federation with the Paris MOU, while the Russian Federation is also a member of the Tokyo MOU, with Turkey there is further tie with the MED MOU.

In order to further strengthen co-operation with IMO, an agreement for co-operation was concluded with IMO, as an Intergovernmental Organization, which allows the BS MOU (and other MOUs) to submit papers and attend IMO meetings in its own rights. The BS MOU is represented by the Secretariat at the IMO III sub-committee meetings and submitting its reports. Due to the Covid-19 pandemic, the seventh session of the III sub-Committee meeting scheduled in July 2020 had been postponed and instead of the meeting, the representatives of the Port State Control regimes have met three times, which were held on 8 April 2020, 17 June 2020 and 18 December 2020 respectively, in an online video meeting on the impact of the Covid-19 crisis on shipping called by IMO. The BS MOU was represented by the BSIS Manager.

The BS MOU is accepted as an observer to several regional PSC agreements, that is, Paris MOU, Tokyo MOU, Mediterranean MOU, Viña del Mar Agreement, and Indian Ocean MOU.

The 53rd meeting of the Paris MOU Port State Control Committee was held by virtual means from 28 September - 2 October 2020 on account of the global Covid-19 pandemic. The Secretary was not able to attend the meeting and sent apologies.

The 31st meeting of the Tokyo MOU Port State Control Committee was originally scheduled to be held from 7 to 10 December 2020 in Seoul, Republic of Korea. However, due to the Covid-19 pandemic, the meeting would be conducted to be held in January 2021 virtually. The BS MOU would be represented by the Russian Federation.

The BS MOU was represented by the Republic of Turkey at the MED MOU PSC21 meeting which was held online from 20 to 21 October 2020.

PSC Inspections 2020

Regional Inspection Data

During the 2020 calendar year 5,552 individual ships visited inspection ports in the Black Sea region in which 4,147 (74.69%) individual ships inspected and 225 (5.43%) individual ships detained. The number of individual ship visits in 2020 decreased 1.51 per cent as compared with 5,637 individual ship visits in 2019. Regarding to this the number of individual ships inspected in 2020 also decreased 2.31 per cent as compared with the number of individual ships inspected in 2019 (4,245).

5,721 inspections carried out onboard 5,552 individual ships registered by 87 flag Administration. The number of inspections in 2020 decreased compared with 2019 (6,036).

The overall detention percentage in the region was 3.51% in 2019; in 2020 it increased up to 4.21% as a per cent of inspections, rather than the number of individual ships inspected to take into account that many ships are detained more than once during any one year. Regional detention rate (percentage of number of individual ships inspected) 5.43% is which is higher than 4.55% in 2019.

The number of ships detained in 2020 for deficiencies clearly hazardous to safety, health or environmental amounted to 225. The number of detained ships was 212 in 2019 which compares with 241 in 2020. Number of inspections decreased 315 (5.22%), total number of detentions increased 29 (13.68%) which resulted 0.70 per cent decrease in detention percentage in 2020. **Table 1** displays summary of the 2020 inspection data and observed changes compared with the previous year.

Table 1- Summary of 2020 Inspection and Trends as Compared with the Previous Year

		2019	2020	Change Compare 2018
Ships Visits	Individual Ships	5,637	5,552	-85
Inspections	Total PSC Inspections	6,036	5,721	-315
	Inspection with Deficiencies	3,401	2,831	-570
	Individual Ships	4,245	4,147	-98
	Inspection Rate	75.31%	74.69%	0.62%
Detentions	Individual Ships	193	225	32
	Total Detentions	212	241	29
	Detentions Rate	4.55%	5.43%	0.88
	% of Total Inspections	3.51%	4.21%	0.7
	% Inspections with Deficiencies	56.35%	49.48%	-6.87
Deficiencies	Total Deficiencies	19,422	15,442	-3,980
	Detainable Deficiencies	653	678	25
	Deficiency Rate	3.22	2.70	-0.52
	Detainable Deficiency / Detention	3.08	2.81	-0.27
	RO Related Detainable Deficiency	11	25	14

Inspection Data by Authority

The BS MOU member Authorities contributions into the regional inspection efforts displayed with **Table 2**. Member Authorities inspection rates (percent of number of individual ships inspected) varied between 21.4% and 76.1%. **Figure 1** displays inspection and detention rates for 2020 by member Authorities and in the region. Detention percentage of the member Authorities are varied from 1.1 to 6.1 per cent. Per cent of inspections with deficiencies varies from 28.42 per cent up to 69.43 per cent in the region. As a result of shipping activity the greatest number of PSC inspections were undertaken in the Russian Federation and Ukraine ports in 2020.

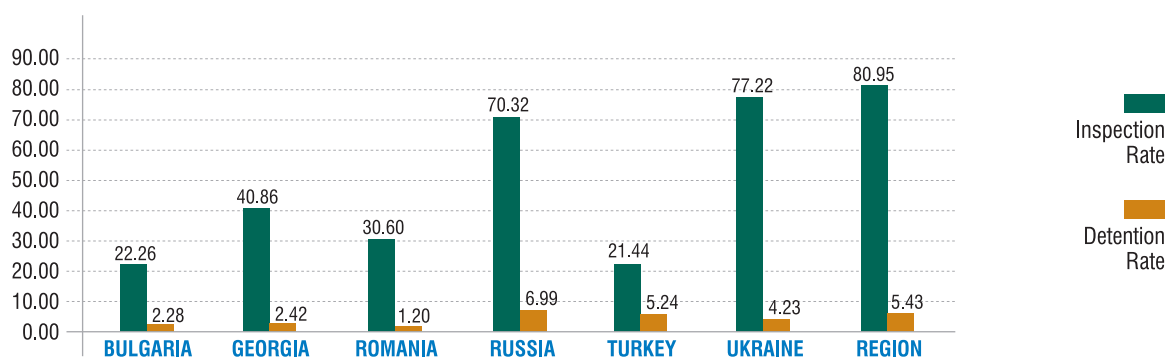
Table 2- Inspection Data by Authority and Region

AUTHORITY	NUMBER OF INDIVIDUAL SHIP VISITS	NUMBER OF INDIVIDUAL SHIPS INSPECTED	NUMBER OF INSPECTIONS	NUMBER OF INSPECTIONS WITH DEFICIENCIES	NUMBER OF DEFICIENCIES	NUMBER OF DETENTIONS	NUMBER OF INDIVIDUAL SHIPS DETAINED	INSPECTION RATE ⁽³⁾	DETENTION RATE ⁽⁵⁾	DETENTION PERCENTAGE ⁽⁴⁾	% OF INSPECTIONS WITH DEFICIENCIES	AVERAGE NO. OF DEFICIENCIES PER INSPECTION	% OF MOU TOTAL	DETENTIONS WITH IRO RELATED DETAINABLE DEFICIENCIES
Bulgaria ⁽²⁾	1,379	307	320	189	862	7	7	22.26	2.28	2.19	59.06	2.69	5.59	0
Georgia	607	248	265	184	1,214	6	6	40.86	2.42	2.26	69.43	4.58	4.63	0
Romania ⁽²⁾	1,637	501	534	366	1,792	6	6	30.60	1.20	1.12	68.54	3.36	9.33	2
Russia ⁽¹⁾	2,197	1,545	1,962	1,221	7,816	120	108	70.32	6.99	6.12	62.23	3.98	34.29	0
Turkey ⁽¹⁾	1,334	286	318	211	1,029	15	15	21.44	5.24	4.72	66.35	3.24	5.56	6
Ukraine	2,673	2,034	2,322	660	2,729	87	86	76.09	4.23	3.75	28.42	1.18	40.59	17
Regional	5,552	4,147	5,721	2,831	15,442	241	225	74.69	5.43	4.21	49.48	2.70		25

⁽¹⁾ Data only for the Black Sea Ports, ⁽²⁾ Inspection data reported to the Paris MOU, ⁽³⁾ Individual ships inspected as per cent of individual ships visited,

⁽⁴⁾ Individual ships detained as per cent of individual ships inspected, ⁽⁵⁾ Detentions as per cent of inspections.

Figure 1- Inspection and Detention Rates by Authority and Region



In order to determine level of contributions of the member Authorities into the regional inspections, share of inspections, share of inspections with deficiencies and share of detentions presented in Figure 2.

Breakdown of inspections by ship risk profile presented in Table 3. Majority of the inspected ships are standard risk ship (SRP)s 4,029 (70.4%), followed by high risk ship (HRS)s 873 (15.3%).

Figure 2- Share of Inspections, Inspections with Deficiencies and Detentions of Members as Percentage of Regional Total

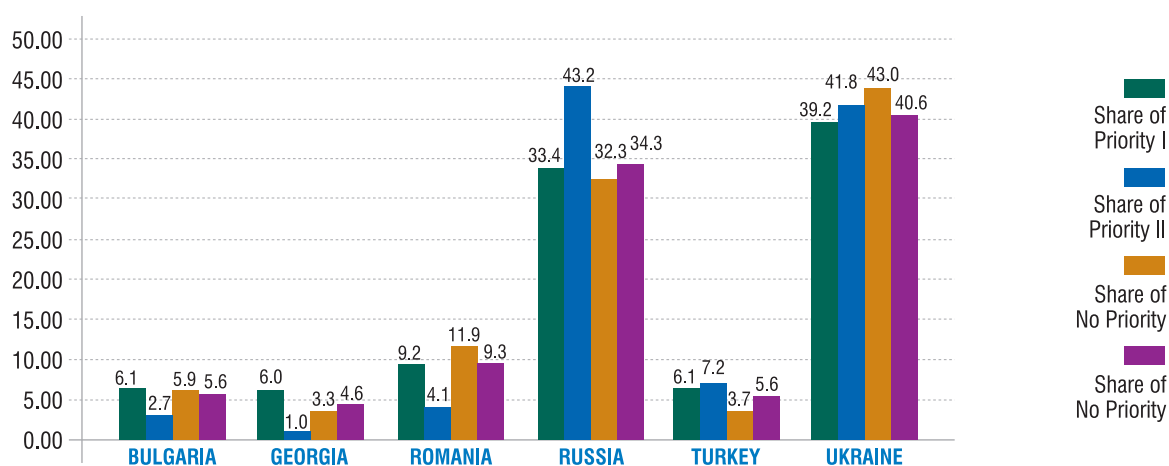


Table 3- Inspection Data by Ship Risk Profile

AUTHORITY	SHIP RISK PROFILE (SRP)								TOTAL NUMBER OF INSPECTIONS
	HRS		SRS		LRS		SRP UNKNOWN		
	NUMBER	%	NUMBER	%	NUMBER	%	NUMBER	%	
Bulgaria	73	22.8	231	72.2	15	4.7	1	0.3	320
Georgia	67	25.3	183	69.1	15	5.7	0	0.0	265
Romania	129	24.2	361	67.6	43	8.1	1	0.2	534
Russian Federation	214	10.9	1358	69.2	390	19.9	0	0.0	1,962
Turkey	63	19.8	231	72.6	24	7.5	0	0.0	318
Ukraine	327	14.1	1665	71.7	330	14.2	0	0.0	2,322
REGION	873	15.3	4,029	70.4	817	14.3	2	0.0	5,721

Inspection Data by Flag

2020 Inspections were carried out on ships registered under 87 flags. The flag State with largest number of ships inspected in the region was Panama with 912 (15.94%) inspection followed by Marshall Islands with 690 (12.06%) and Liberia with 580 (10.14%) which constitute 2,182 (38.14%) of total inspections. Table 4 presents top 5 PSC inspections by flags in 2019 and in 2020.

Table 4- Top 5 Inspections by Flag of the Ships

FLAG	2019		2020		DIFFERENCE		2018-2020 SHARE
	NUMBER	SHARE	NUMBER	SHARE	NUMBER	%	
Panama	926	15.34%	912	15.94%	-14	-1.5%	15.75%
Marshall Islands	631	10.45%	690	12.06%	59	9.4%	9.71%
Liberia	594	9.84%	580	10.14%	-14	-2.4%	10.25%
Malta	631	10.45%	575	10.05%	-56	-8.9%	4.88%
Russian Federation	301	4.99%	279	4.88%	-22	-7.3%	5.59%

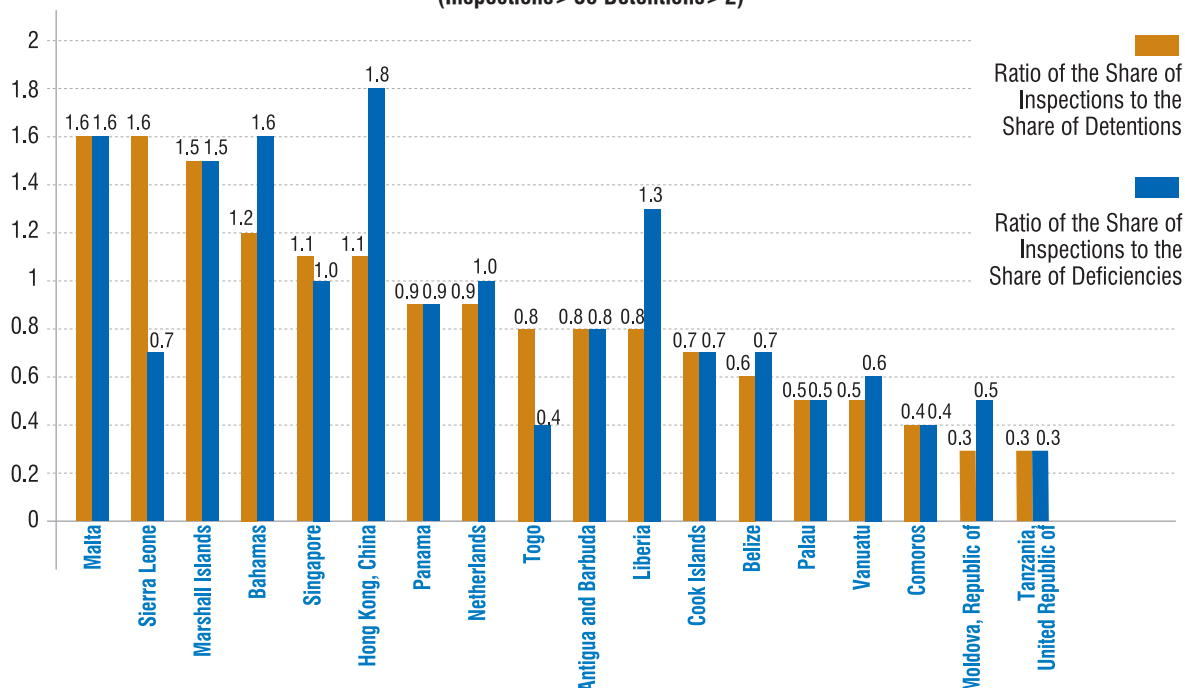
In 2020, ships registered under 26 foreign flags were observed to have deficiencies sufficiently serious to impair the seaworthiness and warrant detention. High detention percentage observed Ukraine (12.90%), followed by Comoros (11.03%) and Tanzania (10.26%) flagged vessels. Table 5 illustrates inspections data by flags exceeding average detention percentage (with inspections more than 20).

**Table 5- 2020 Detentions Per Flag, Exceeding Average Detention Percentage
(Number of Inspections > 20, with a Detention Percentage Exceeding 4.21%)**

FLAG	NUMBER OF INSPECTIONS	NO. OF INSPECTIONS WITH DEFICIENCIES	NUMBER OF DEFICIENCIES	NUMBER OF DETENTIONS	% OF INSPECTIONS WITH DEFICIENCIES	DETENTION % 2019	EXCESS OF AVERAGE 2019	DETENTION % 2018	EXCESS OF AVERAGE 2018
Antigua and Barbuda	79	45	258	4	57.0	5.06	0.85	5.61	2.10
Barbados	42	23	84	2	54.8	4.76	0.55	8.33	4.82
Belize	98	64	357	7	65.3	7.14	2.93	3.03	-0.48
Comoros	106	100	643	10	94.3	9.43	5.22	11.03	7.52
Liberia	580	204	1165	31	35.2	5.34	1.13	2.02	-1.49
Moldova, Republic of	159	142	856	20	89.3	12.58	8.37	7.64	4.13
Netherlands	63	36	177	3	57.1	4.76	0.55	1.39	-2.12
Norway	32	10	52	2	31.3	6.25	2.04	0.00	-3.51
Palau	74	67	432	6	90.5	8.11	3.90	5.56	2.05
Panama	912	509	2768	42	55.8	4.61	0.39	4.86	1.35
Saint Kitts and Nevis	37	30	126	2	81.1	5.41	1.19	3.85	0.34
Tanzania, United Republic of	77	71	698	12	92.2	15.58	11.37	10.26	6.75
Togo	119	109	722	6	91.6	5.04	0.83	9.72	6.21
Tuvalu	21	12	73	3	57.1	14.29	10.07	10.53	7.02
Ukraine	26	25	130	2	96.2	7.69	3.48	12.90	9.39
Vanuatu	56	46	246	5	82.1	8.93	4.72	5.48	1.97

Figure 3 presents ratio of the share of inspections to the share of detentions and deficiencies which indicates relative level of the detention and deficiencies. Malta, followed by Sierra Leone, Marshall Islands and Bahamas performing well concerning detentions. Hong Kong China, Bahamas, Malta, Bahamas followed by Marshall Islands and Liberia performing well concerning deficiencies.

**Figure 3- Ratio of the Share of Inspections to the Share of Detentions and Deficiencies by the Flags
(Inspections > 30 Detentions > 2)**

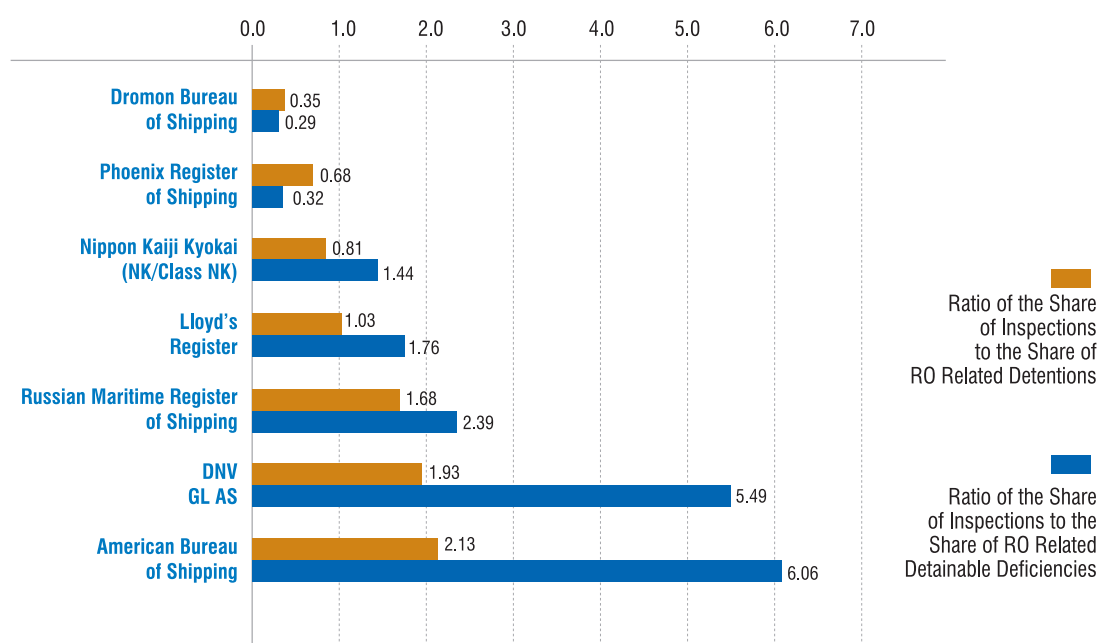


Inspection Data by Recognized Organization

The majority of ships inspected are in class with the Nippon Kaiji Kyokai 1264 (15.6%), DNV GL AS 1206 (14.8%), Bureau Veritas 1018 (12.5%), Lloyd's Register 969 (11.9%), and followed by American Bureau of Shipping 665 (8.2%) and Russian Maritime Register of Shipping 524 (6.5%)

Figure 4 presents ratio of the share of inspections to the share of RO related detentions and share of RO related detainable deficiencies. American Bureau of Shipping, DNV GL AS, Russian Maritime Register of Shipping have high share of RO related detentions and high share of RO related detainable deficiencies compare to the share of inspections.

Figure 4- Ratio of the Share of Inspections to the Share of RO Related Detentions and to the Share of RO Related Detainable Deficiencies (Inspections with RO Related Detentions)



Inspection Data by Ship Type

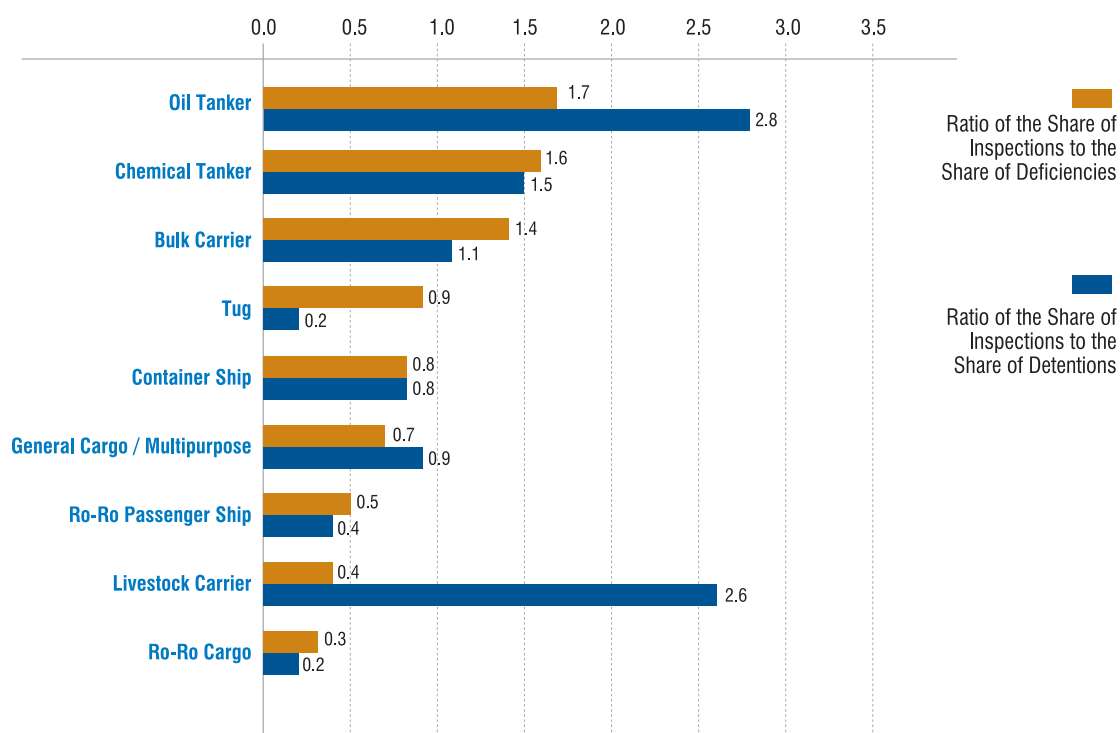
When considering the breakdown of ships inspected by ship type, largest group of the ship inspected during 2020 were bulk carrier with 2,269 (36.7%) inspections, general cargo/multipurpose 1,859 (32.5%) and oil tanker 654 (11.4%) were also inspected which represent 83.6 per cent of inspections. 2020 top 5 inspection by ship type presented below.

SHIP TYPES	2019		2020		DIFFERENCE		2018-2020
	NUMBER	SHARE	NUMBER	SHARE	NUMBER	%	SHARE
Bulk Carrier	2,210	36.61%	2,269	39.66%	59	2.67%	37.29%
General Cargo / Multipurpose	2,144	35.52%	1,859	32.49%	-285	-13.29%	34.72%
Oil Tanker	719	11.91%	654	11.43%	-65	-9.04%	11.74%
Chemical Tanker	459	7.60%	458	8.01%	-1	-0.22%	7.68%
Container	212	3.51%	196	3.43%	-16	-7.55%	3.44%

Majority of detained ships were type of general cargo/multi purpose ships with 91 (37.8%) detentions, bulk carriers with 84 (34.9%) detentions and Ro-Ro cargo with 14 (5.8%) detentions followed by chemical tanker with 13 (5.4%) detentions, which were accounted for 83.9 per cent of the total detentions.

Figure 5 shows how the ship types inspected performed with regards to detentions and deficiencies. Higher share of detentions and deficiencies compared with share of inspections indicated that type of ship underperforming with respect to detentions and deficiencies.

Figure 5- Share of Inspections to the Share of Detentions and Share of Deficiencies for Ship Types with Detentions



Inspection Data by Deficiency

A total of 15,442 deficiencies were recorded during the port State control inspections in 2020. Majority of the deficiencies found upon inspection in 2020 were related to safety of navigation (15.1%), life saving appliances (12.9%), health protection, medical care, social security (12.0%) and fire safety measures (8.9%). These four categories make up 48.9% of the total deficiencies found 2020. Top 5 category of deficiencies presented below.

CATEGORY OF DEFICIENCIES	2019		2020		DIFFERENCE		2018-2020
	NUMBER	SHARE	NUMBER	SHARE	NUMBER	%	SHARE
Safety of Navigation	2,930	15.1%	2,335	15.1%	-595	0.0%	15.38%
Life Saving Appliances	2,686	13.8%	1,991	12.9%	-695	-0.9%	13.99%
Health Protection/Medical Care/Social Security	1,886	9.7%	1,851	12.0%	-35	2.3%	8.77%
Fire Safety	1,887	9.7%	1,371	8.9%	-516	-0.8%	9.18%
Structural Conditions	1,337	6.9%	1,264	8.2%	-73	1.3%	7.14%

Number of ISM related detainable deficiencies were 297 which accounted for 1.92 per cent of the deficiencies, 194 marine pollution MARPOL Annex I related deficiencies observed accounting 1.26 per cent of the total deficiencies.

A total 678 detainable deficiencies and 74 RO related detainable deficiencies were recorded during the port State control inspections. 4.4 per cent of total deficiencies in 2020 were detainable deficiencies, and 10.9 per cent of detainable deficiencies in 2020 were RO related.

Majority of the detainable deficiencies found upon inspections in 2020 were related to life-saving appliance (13.9%), fire safety (13.1%), emergency systems (12.5%) safety of navigation (11.9%), and ISM (9.9%). These five categories make up 61.3% of the total detainable deficiencies found in 2020. Top 5 category of detainable deficiencies presented below.

DETAINABLE DEFICIENCIES	2019		2020		DIFFERENCE		2018-2020
	NUMBER	SHARE	NUMBER	SHARE	NUMBER	%	SHARE
Life Saving Appliances	82	12.6%	94	13.9%	12	1.3%	13.7%
Fire Safety	103	15.8%	89	13.1%	-14	-2.6%	14.4%
Emergency Systems	103	15.8%	85	12.5%	-18	-3.2%	14.1%
Safety of Navigation	97	14.9%	81	11.9%	-16	-2.9%	12.8%
ISM	57	8.7%	67	9.9%	10	1.2%	8.3%

Majority of the RO related detainable deficiencies found upon inspection in 2020 were related to life-saving appliance (18.9%) safety of navigation (13.0%), ship certificates (11.7%), emergency systems (11.7%) and followed by working conditions (11.7%). These five categories make up 67% of the total RO related detainable deficiencies found.

2020 Maritime Labour Convention Results

MLC, 2006 compliance is verified during 2,816 PSC inspections carried out in 2020 by Bulgaria, Romania and the Russian Federation and the results are presented in **Table 6**. This table identifies the number of MLC 2006-related deficiencies, detainable deficiencies and detentions by ship flag, ship type and ship age.

PSCOs from Bulgaria, Romania and the Russian Federation identified 2,220 deficiencies related to MLC 2006 issues. This represented 21.2 per cent of the total deficiencies issued and equated to 0.79 deficiency per inspection.

Of the 356 detainable deficiencies 32 were related to MLC detainable deficiencies. This represented 8.98 per cent of the total detainable deficiencies. Of the 133 detentions 26 (19.5%) were due to the MLC, 2006 related detainable deficiencies which resulted 0.92 detention percentage.

Table 6- 2020 MLC Results by Ship Age, Ship Flag and Ship Type

SHIP AGE	Number of Inspections	Total Deficiencies	MLC Deficiencies	Total Detainable Deficiencies	MLC Detainable Deficiencies	Total Detentions	MLC Detentions
0 - 5	291	449	92	11	0	6	0
6 - 10	501	1,174	256	31	6	10	4
11 - 15	695	2,062	442	53	2	26	1
16 - 20	450	1,693	340	73	8	27	7
21 - 24	218	1,020	230	21	0	11	0
25 - 29	239	1,216	250	33	4	16	4
30 - 34	127	708	135	26	2	11	2
35 +	295	2,148	475	108	10	26	8
TOTALS	2,816	10,470	2,220	356	32	133	26

Table 6- 2020 MLC Results by Ship Age, Ship Flag and Ship Type (Continue)

SHIP FLAG	Number of Inspections	Total Deficiencies	MLC Deficiencies	Total Detainable Deficiencies	MLC Detainable Deficiencies	Total Detentions	MLC Detentions
Antigua and Barbuda	40	181	32	8	1	4	1
Bahamas	63	176	35	5	0	4	0
Belize	47	241	47	13	2	5	1
Comoros	39	359	63	17	0	5	0
Cook Islands	34	170	37	7	0	4	0
Greece	72	40	8	0	0	0	0
Hong Kong, China	87	296	69	10	1	5	1
Italy	40	56	4	0	0	0	0
Liberia	302	840	194	23	0	12	0
Malta	299	762	163	23	2	12	2
Marshall Islands	358	998	221	38	7	12	4
Moldova, Republic of	57	364	66	19	1	7	1
Panama	428	1978	433	66	8	26	8
Portugal	31	99	20	2	0	1	0
Russian Federation	127	282	48	4	0	1	0
Sierra Leone	53	276	66	9	1	3	1
Singapore	97	332	54	7	1	2	1
Tanzania, United Republic of	59	558	125	54	6	11	4
Togo	54	432	104	13	0	3	0
Turkey	156	494	109	0	0	0	0
Vanuatu	31	177	39	8	0	4	0
TOTALS	2,816	10,470	2,220	356	32	133	26

SHIP TYPE	Number of Inspections	Total Deficiencies	MLC Deficiencies	Total Detainable Deficiencies	MLC Detainable Deficiencies	Total Detentions	MLC Detentions
Bulk Carrier	929	3,297	762	119	13	48	9
Chemical Tanker	256	602	110	24	2	8	2
Container Ship	124	550	153	6	0	3	0
General Cargo / Multipurpose	831	4,111	873	148	13	52	11
Livestock Carrier	37	283	70	5	0	1	0
Oil Tanker	514	853	123	8	1	4	1
Refrigerated Cargo	7	25	4	3	0	2	0
Ro-Ro Cargo	63	594	115	35	3	14	3
Ro-Ro Passenger Ship	3	59	2	8	0	1	0
TOTALS	2,816	10,470	2,220	356	32	133	26

Port State Inspection Data for 2020

Table 7- Inspection Data by Flag

FLAG	NUMBER OF INSPECTIONS	INSPECTIONS WITH DEFICIENCIES	NUMBER OF DEFICIENCIES	NUMBER OF INSPECTIONS WITH DETENTIONS	NUMBER OF INDIVIDUAL SHIPS INSPECTED	DETENTION PERCENTAGE	% OF INSPECTIONS WITH DEFICIENCIES
Antigua and Barbuda	79	45	258	4	69	5.06	56.96
Azerbaijan	14	8	37	3	10	21.43	57.14
Bahamas	113	39	185	4	94	3.54	34.51
Bangladesh	5	3	17	0	5	0.00	60.00
Barbados	42	23	84	2	32	4.76	54.76
Belgium	7	0	0	0	6	0.00	0.00
Belize	98	64	357	7	53	7.14	65.31
Bermuda (GB)	1	0	0	0	1	0.00	0.00
Bulgaria	15	10	58	0	7	0.00	66.67
Cameroon	17	16	68	0	11	0.00	0.00
Canada	1	0	0	0	1	0.00	0.00
Cayman Islands (GB)	30	10	62	1	25	0.00	0.00
China	11	0	0	0	8	0.00	0.00
Comoros	106	100	643	10	54	9.43	94.34
Congo	1	1	4	0	1	0.00	0.00
Cook Islands	95	61	349	6	45	0.00	0.00
Croatia	6	2	9	0	6	0.00	33.33
Curacao	1	1	2	0	1	0.00	100.00
Cyprus	50	10	54	1	45	2.00	20.00
Denmark	38	26	126	0	35	0.00	68.42
Dominica	1	0	0	0	1	0.00	0.00
Egypt	23	16	96	0	12	0.00	69.57
Ethiopia	10	1	13	0	6	0.00	10.00
Faroe Islands	1	0	0	0	1	0.00	0.00
Finland	2	2	11	0	2	0.00	100.00
France	2	2	7	0	2	0.00	0.00
Gabon	2	2	16	0	1	0.00	100.00
Georgia	4	4	9	0	3	0.00	100.00
Germany	4	3	20	1	3	25.00	75.00
Gibraltar (GB)	13	6	28	0	11	0.00	46.15
Greece	116	14	63	1	98	0.86	12.07
Honduras	8	7	62	1	6	12.50	87.50
Hong Kong, China	228	51	335	9	195	3.95	22.37
India	6	3	15	0	6	0.00	50.00
Indonesia	1	0	0	0	1	0.00	0.00
Iran, Islamic Republic of	2	1	6	0	2	0.00	50.00
Ireland	2	0	0	0	2	0.00	0.00
Isle of Man (GB)	25	13	53	0	23	0.00	52.00
Israel	1	1	2	0	1	0.00	100.00
Italy	61	25	62	0	44	0.00	0.00
Jamaica	1	1	5	0	1	0.00	100.00
Jordan	2	1	2	0	1	0.00	50.00
Korea, Republic of	9	2	3	0	6	0.00	22.22

Table 7- Inspection Data by Flag (Continue)

FLAG	NUMBER OF INSPECTIONS	INSPECTIONS WITH DEFICIENCIES	NUMBER OF DEFICIENCIES	NUMBER OF INSPECTIONS WITH DETENTIONS	NUMBER OF INDIVIDUAL SHIPS INSPECTED	DETENTION PERCENTAGE	% OF INSPECTIONS WITH DEFICIENCIES
Lebanon	10	8	31	1	5	10.00	80.00
Liberia	580	204	1,165	31	472	5.34	35.17
Libyan Arab Jamahiriya	1	1	2	0	1	0.00	100.00
Lithuania	1	1	10	0	1	0.00	0.00
Luxembourg	9	1	9	0	7	0.00	11.11
Malta	575	207	946	15	455	2.61	36.00
Marshall Islands	690	196	1,222	20	584	2.90	28.41
Moldova, Republic of	159	142	856	20	77	12.58	89.31
Mongolia	3	2	15	1	3	33.33	66.67
Montenegro	3	1	5	0	3	0.00	33.33
Morocco	1	1	2	0	1	0.00	100.00
Netherlands	63	36	177	3	58	4.76	57.14
Niue	2	2	4	0	1	0.00	100.00
Norway	32	10	52	2	26	6.25	31.25
Pakistan	4	1	16	1	2	25.00	25.00
Palau	74	67	432	6	41	8.11	90.54
Panama	912	509	2,768	42	649	4.61	55.81
Philippines	17	2	13	1	17	5.88	11.76
Portugal	59	19	116	1	45	1.69	32.20
Qatar	3	0	0	0	2	0.00	0.00
Russian Federation	279	172	625	2	207	0.72	61.65
Saint Kitts and Nevis	37	30	126	2	23	5.41	81.08
Saint Vincent and the Grenadines	44	28	115	0	28	0.00	63.64
Sao Tome and Principe	2	2	22	0	2	0.00	100.00
Saudi Arabia	2	1	6	0	2	0.00	50.00
Seychelles	1	0	0	0	1	0.00	0.00
Sierra Leone	114	97	450	3	48	2.63	85.09
Singapore	182	79	494	7	155	0.00	0.00
Spain	2	1	12	1	1	50.00	50.00
Sri Lanka	1	0	0	0	1	0.00	0.00
Switzerland	7	1	3	0	6	0.00	14.29
Syrian Arab Republic	5	4	71	2	3	40.00	80.00
Tanzania, United Republic of	77	71	698	12	29	15.58	92.21
Thailand	4	1	2	0	4	0.00	25.00
Togo	119	109	722	6	59	5.04	91.60
Tunisia	1	1	3	0	1	0.00	100.00
Turkey	269	159	640	1	152	0.37	59.11
Tuvalu	21	12	73	3	11	14.29	57.14
Ukraine	26	25	130	2	19	7.69	96.15
United Arab Emirates	1	1	4	0	1	0.00	100.00
United Kingdom	12	2	17	1	11	8.33	16.67
United States	3	2	12	0	3	0.00	66.67
Vanuatu	56	46	246	5	35	8.93	82.14
Vietnam	4	3	9	0	2	0.00	75.00
TOTAL	5,721	2,831	15,442	241	4,191	4.21	49.48

Table 8- Inspection Data by Recognized Organizations (Number of Inspections >10)

RECOGNIZED ORGANIZATION	NUMBER OF INSPECTIONS	NUMBER OF INSPECTIONS WITH DEFICIENCIES	NUMBER OF DEFICIENCIES	NUMBER OF RO RELATED DEFICIENCIES	NUMBER OF DETENTIONS	DETENTIONS WITH RO RELATED DETAINABLE DEFICIENCIES
American Bureau of Shipping	665	221	1,143	1	24	1
American Register of Shipping	13	6	49	0	2	0
Bulgarian Register of Shipping	106	83	439	3	7	1
Bureau Veritas	1,018	426	2,290	0	46	0
China Classification Society	132	17	95	0	2	0
Columbus American Register	14	14	100	0	1	0
Croatian Register of Shipping	15	8	52	0	2	0
Det Norske Veritas	21	7	33	0	1	0
DNV GL AS	1,206	397	2,167	2	41	2
Dromon Bureau of Shipping	220	187	1,016	7	7	2
Indian Register of Shipping	61	45	278	0	3	0
Intermaritime Certification Services, ICS Class	22	16	87	0	3	0
International Naval Surveys Bureau	175	137	734	0	8	0
International Register of Shipping	56	50	288	0	3	0
Isthmus Bureau of Shipping, S.A.	81	62	408	3	4	2
Korean Register	142	42	211	0	3	0
Lloyd's Register	969	350	2,032	5	31	3
Macosnar Corporation	20	14	84	0	1	0
Maritime Bureau of Shipping	22	20	136	0	2	0
Maritime Lloyd (ML)	75	70	611	11	13	1
Mediterranean Shipping Register (MSR)	52	47	222	17	9	4
National Shipping Adjuster Inc.	38	31	191	0	3	0
Nippon Kaiji Kyokai (NK/Class NK)	1,264	473	2,534	8	47	5
Other	76	63	423	6	6	1
Overseas Marine Certification Services	23	16	98	0	3	0
Panama Maritime Documentation Services	15	5	21	0	0	0
Phoenix Register of Shipping	213	169	1,066	6	17	1
Polski Rejestr Statkow (Polish Register of Shipping)	56	34	151	0	3	0
Qualitas Register of Shipping S.A	37	21	121	0	1	0
RINA Services S.p.A.	438	182	846	0	10	0
Russian Maritime Register of Shipping	524	338	1,497	2	15	1
Shipping Register of Ukraine (SRU)	94	85	543	0	11	0
Turkish Lloyd	145	109	451	0	1	0
Vega Register Inc.	16	14	87	0	1	0
Veritas Register of Shipping	53	48	282	2	4	1

Note: Number of inspections and detentions are calculated corresponding to each recognized organization (RO) that issued certificate(s) for a ship. In case that ship's certificates were issued more than one ROs, the inspection and detention would be counted to each of them.

Table 9- Inspection Data by Ship Type

TYPE OF SHIP	NUMBER OF INSPECTIONS	INSPECTIONS WITH DEFICIENCIES	NUMBER OF DEFICIENCIES	NUMBER OF INSPECTIONS WITH DETENTIONS	NUMBER OF INDIVIDUAL SHIPS INSPECTED	DETENTION PERCENTAGE	% OF INSPECTIONS WITH DEFICIENCIES
Bulk Carrier	2,269	717	4,245	84	1,812	3.70	31.60
Chemical Tanker	458	158	768	13	372	2.84	34.50
Combination Carrier	5	5	18	0	4	0.00	100.00
Commercial Yacht	2	2	3	0	2	0.00	100.00
Container Ship	196	110	645	10	143	5.10	56.12
Gas Carrier	47	16	62	2	39	4.26	34.04
General Cargo / Multipurpose	1,859	1,380	7,297	91	1,167	4.90	74.23
Heavy Load	1	0	0	0	1	0.00	0.00
Livestock Carrier	62	59	415	1	30	1.61	95.16
NLS Tanker	5	1	2	0	5	0.00	20.00
Offshore Supply	2	2	7	0	2	0.00	100.00
Oil Tanker	654	251	1,068	10	510	1.53	38.38
Other Special Activities	14	9	40	4	13	28.57	64.29
Passenger Ship	1	0	0	0	1	0.00	0.00
Refrigerated Cargo	10	6	31	2	7	20.00	60.00
Ro-Ro Cargo	77	69	635	14	31	18.18	89.61
Ro-Ro Passenger Ship	25	24	123	3	10	12.00	96.00
Special Purpose Ship	4	2	3	0	4	0.00	50.00
Tugboat	22	18	68	6	20	27.27	81.82
Vehicle Carrier	5	1	9	1	5	20.00	20.00
Woodchip Carrier	3	1	3	0	3	0.00	33.33
ALL TYPES OF SHIPS	5,721	2,831	15,442	241	4,147	4.21	49.48

Table 10- Inspection Data by Type of Deficiencies

CATEGORY OF DEFICIENCIES		NUMBER OF DEFICIENCIES	NO. OF DETAINABLE DEFICIENCIES	NO. OF RO RELATED DETAINABLE DEFICIENCIES	% OF TOTAL DEFICIENCIES	% OF TOTAL DETAINABLE DEFICIENCIES	% OF TOTAL RO RELATED DETAINABLE DEFICIENCIES
Certificates and Documents	Crew Certificates	220	19	0	1.42	2.80	0.00
	Documents	954	4	1	6.18	0.59	1.35
	Ship Certificates	954	4	1	6.18	0.59	1.35
SOLAS	Structural Conditions	1,264	55	6	8.19	8.11	8.11
	Emergency Systems	1,130	85	9	7.32	12.54	12.16
	Alarm Signals	0	0	0	0.00	0.00	0.00
	Radio Communications	611	27	1	3.96	3.98	1.35
	Cargo Operations Including Equipment	86	1	0	0.56	0.15	0.00
	Fire Safety	1,371	89	6	8.88	13.13	8.11
	Alarms	89	2	0	0.58	0.29	0.00
	Safety of Navigation	2,335	81	10	15.12	11.95	13.51
	Dangerous Goods	22	0	0	0.14	0.00	0.00
	Life-saving Appliances	1,991	94	14	12.89	13.86	18.92
	Propulsion and Auxiliary Machinery	976	18	0	6.32	2.65	0.00
Pollution Prevention	BWM	76	0	0	0.49	0.00	0.00
	MARPOL Annex I	194	10	1	1.26	1.47	1.35
	Annex II	4	1	0	0.03	0.15	0.00
	Annex III	2	0	0	0.01	0.00	0.00
	Annex IV	45	3	1	0.29	0.44	1.35
	Annex V	165	1	0	1.07	0.15	0.00
	Annex VI	50	4	0	0.32	0.59	0.00
	Anti Fouling	0	0	0	0.00	0.00	0.00
ILO/MLC	Living Conditions	138	0	0	0.89	0.00	0.00
	Working Conditions	814	23	9	5.27	3.39	12.16
	Minimum Requirements for Seafarers	4	1	0	0.03	0.15	0.00
	Conditions of Employment	21	5	0	0.14	0.74	0.00
	Accommodation, Recreational	231	2	0	1.50	0.29	0.00
	Health Protection, Medical Care, Social Security	1,851	23	0	11.99	3.39	0.00
ISM		297	67	7	1.92	9.88	9.46
Other		84	1	0	0.54	0.15	0.00
TOTAL		15,442	678	74			

Statistical Data 2018-2020

Summary

	2018	2019	2020
Number of Inspections	5,214	6,036	5,721
Number of Inspections with Deficiencies	3,103	3,401	2,831
Number of Deficiencies Observed	21,450	19,422	15,442
Number of Detentions	278	212	241
% of Inspections with Deficiencies	59.51	56.35	49.48
Detention Percentage	5.33	3.51	4.21
Average Number of Deficiencies per Inspection	4.11	3.22	2.70

Inspection Data by Authority 2018-2020

MARITIME AUTHORITY	NO. OF INDIVIDUAL SHIP VISIT			NO. OF INDIVIDUAL SHIP INSPECTED			NUMBER OF INSPECTIONS			NO. OF INSPECTIONS WITH DEFICIENCIES			NUMBER OF DETENTIONS		
	2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020
BULGARIA	1,321	1,426	1,379	314	318	307	331	342	320	228	214	189	13	12	7
GEORGIA	533	607	607	250	246	248	272	264	265	208	184	184	24	9	6
ROMANIA	1,724	1,681	1,637	496	453	501	534	489	534	394	372	366	29	25	6
RUSSIAN FEDERATION ⁽¹⁾	2,196	2,217	2,197	1,534	1,545	1,545	1,879	1,927	1,962	1,386	1,287	1,221	166	132	120
TURKEY ⁽¹⁾	1,225	1,292	1,334	356	391	286	403	446	318	238	256	211	18	17	15
UKRAINE	2,234	2,318	2,415	1,544	2,125	2,034	1,795	2,568	2,322	649	1,088	660	28	17	87

MARITIME AUTHORITY	% OF INSPECTIONS WITH DEFICIENCIES			DETENTION PERCENTAGE			DETENTION RATE ⁽²⁾			INSPECTION RATE ⁽³⁾		
	2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020
BULGARIA	68.88	62.57	59.06	3.93	3.51	2.19	4.14	3.77	2.28	23.77	22.30	22.26
GEORGIA	76.47	69.70	69.43	8.82	3.41	2.26	9.60	3.25	2.42	46.90	40.53	40.86
ROMANIA	73.78	76.07	68.54	5.43	5.11	1.12	5.85	5.52	1.20	28.77	26.95	30.60
RUSSIAN FEDERATION ⁽¹⁾	73.76	66.79	62.23	8.83	6.85	6.12	9.32	7.77	6.99	69.85	69.69	70.32
TURKEY ⁽¹⁾	59.06	57.40	66.35	4.47	3.81	4.72	4.49	4.35	5.24	29.06	30.26	21.44
UKRAINE	36.16	42.37	28.42	1.56	0.66	3.75	1.81	0.80	4.23	69.11	91.67	84.22

⁽¹⁾ Data only for the Black Sea Ports

⁽²⁾ Individual ships detained as per cent of individual ships inspected

⁽³⁾ Individual ships inspected as per cent of number of individual ships visited

Inspection by Ship Types (in the order of 2020 top 10 inspections)

SHIP TYPES	2018	2018 SHARE	2019	2019 SHARE	2020	2020 SHARE	2018-2020 SHARE
Bulk Carrier	1,850	35.5%	2,210	36.6%	2,269	39.7%	37.3%
General Cargo / Multipurpose	1,890	36.2%	2,144	35.5%	1,859	32.5%	34.7%
Oil Tanker	619	11.9%	719	11.9%	654	11.4%	11.7%
Chemical Tanker	386	7.4%	459	7.6%	458	8.0%	7.7%
Container Ship	175	3.4%	212	3.5%	196	3.4%	3.4%
Ro-Ro Cargo	97	1.9%	81	1.3%	77	1.3%	1.5%
Livestock Carrier	22	0.4%	47	0.8%	47	0.8%	0.7%
Other Special Activities	38	0.7%	54	0.9%	62	1.1%	0.9%
Gas Carrier	22	0.4%	20	0.3%	25	0.4%	0.4%
Ro-Ro Passenger Ship	91	1.7%	67	1.1%	52	0.9%	1.2%
Tugboat	24	0.5%	23	0.4%	22	0.4%	0.4%
TOTALS	5,214		6,036		5,721		

Inspection by Ship Flag (in the order of 2020 top 10 inspections)

SHIP FLAGS	2018	2018 SHARE	2019	2019 SHARE	2020	2020 SHARE	2018-2020 SHARE
Panama	835	16.0%	926	15.3%	912	15.9%	15.8%
Marshall Islands	496	9.5%	631	10.5%	690	12.1%	10.7%
Liberia	474	9.1%	594	9.8%	580	10.1%	9.7%
Malta	533	10.2%	631	10.5%	575	10.1%	10.2%
Russian Federation	249	4.8%	301	5.0%	279	4.9%	4.9%
Turkey	349	6.7%	331	5.5%	269	4.7%	5.6%
Hong Kong, China	169	3.2%	191	3.2%	228	4.0%	3.5%
Singapore	148	2.8%	193	3.2%	182	3.2%	3.1%
Moldova, Republic of	112	2.1%	144	2.4%	159	2.8%	2.4%
Togo	137	2.6%	144	2.4%	119	2.1%	2.4%
Others	1,712	32.8%	1,950	32.3%	1,728	30.2%	3.9%
TOTALS	5,214		6,036		5,721		

Detentions by Ship Types (in the order of 2020 top 10 inspections)

SHIP TYPES	2018	2018 SHARE	2019	2019 SHARE	2020	2020 SHARE	2018-2020 SHARE
Bulk Carrier	66	23.7%	50	23.6%	84	34.9%	27.4%
General Cargo / Multipurpose	164	59.0%	112	52.8%	91	37.8%	50.2%
Oil Tanker	14	5.0%	10	4.7%	10	4.1%	4.7%
Chemical Tanker	3	1.1%	10	4.7%	13	5.4%	3.6%
Container Ship	6	2.2%	4	1.9%	10	4.1%	2.7%
Ro-Ro Cargo	20	7.2%	19	9.0%	14	5.8%	7.3%
Livestock Carrier	2	0.7%	0	0.0%	2	0.8%	0.3%
Other Special Activities	2	0.7%	2	0.9%	1	0.4%	0.7%
Gas Carrier	0	0.0%	0	0.0%	3	1.2%	0.4%
Ro-Ro Passenger Ship	0	0.0%	4	1.9%	7	2.9%	1.8%
Tugboat	1	0.4%	1	0.5%	6	2.5%	1.1%
TOTALS	278		212		241		

Detentions by Ship Flag (more than 1 detentions in 2020)

SHIP FLAG	2018	2018 SHARE	2019	2019 SHARE	2020	2020 SHARE	2018-2020 SHARE
Antigua and Barbuda	8	2.9%	6	2.8%	4	1.7%	2.5%
Azerbaijan	0	0.0%	1	0.5%	3	1.2%	0.5%
Bahamas	2	0.7%	5	2.4%	4	1.7%	1.5%
Barbados	0	0.0%	3	1.4%	2	0.8%	0.7%
Belize	7	2.5%	4	1.9%	7	2.9%	2.5%
Comoros	22	7.9%	15	7.1%	10	4.1%	6.4%
Cook Islands	8	2.9%	6	2.8%	6	2.5%	2.7%
Hong Kong, China	3	1.1%	1	0.5%	9	3.7%	1.8%
Liberia	12	4.3%	12	5.7%	31	12.9%	7.5%
Malta	8	2.9%	12	5.7%	15	6.2%	4.8%
Marshall Islands	7	2.5%	14	6.6%	20	8.3%	5.6%
Moldova, Republic of	14	5.0%	11	5.2%	20	8.3%	6.2%
Netherlands	3	1.1%	1	0.5%	3	1.2%	1.0%
Norway	0	0.0%	0	0.0%	2	0.8%	0.3%
Palau	8	2.9%	4	1.9%	6	2.5%	2.5%
Panama	66	23.7%	45	21.2%	42	17.4%	20.9%
Russian Federation	3	1.1%	6	2.8%	2	0.8%	1.5%
Saint Kitts and Nevis	1	0.4%	1	0.5%	2	0.8%	0.5%
Sierra Leone	11	4.0%	10	4.7%	3	1.2%	3.3%
Singapore	1	0.4%	2	0.9%	7	2.9%	1.4%
Syrian Arab Republic	0	0.0%	3	1.4%	2	0.8%	0.7%
Tanzania, United Republic of	23	8.3%	12	5.7%	12	5.0%	6.4%
Togo	21	7.6%	14	6.6%	6	2.5%	5.6%
Tuvalu	0	0.0%	2	0.9%	3	1.2%	0.7%
Ukraine	3	1.1%	4	1.9%	2	0.8%	1.2%
Vanuatu	10	3.6%	4	1.9%	5	2.1%	2.6%
Other	37	13.3%	14	6.6%	13	5.4%	8.8%
TOTALS	278		212		241		

Major Category of Deficiencies 2018-2020

CATEGORY OF DEFICIENCIES		2018		2019		2020	
		Number	%	Number	%	Number	%
Certificates and Documents	Crew Certificates	326	1.52	218	1.12	220	1.42
	Documents	1,454	6.78	1,262	6.50	954	6.18
	Ship Certificates	590	2.75	394	2.03	417	2.70
SOLAS	Structural Conditions	1,422	6.63	1,337	6.88	1,264	8.19
	Emergency Systems	1,279	5.96	1,300	6.69	1,130	7.32
	Alarm Signals	0	0.00	0	0.00	0	0.00
	Radio Communications	1,045	4.87	886	4.56	611	3.96
	Cargo Operations Including Equipment	107	0.50	125	0.64	86	0.56
	Fire Safety	1,912	8.91	1,887	9.72	1,371	8.88
	Alarms	89	0.41	88	0.45	89	0.58
	Safety of Navigation	3,394	15.82	2,930	15.09	2,335	15.12
	Dangerous Goods	71	0.33	47	0.24	22	0.14
	Life-saving Appliances	3,199	14.91	2,686	13.83	1,991	12.89
	Propulsion and Auxiliary Machinery	1,357	6.33	1,368	7.04	976	6.32
Pollution Prevention	BWM	61	0.28	62	0.32	76	0.49
	Anti Fouling	1	0.0	2	0.01	0	0.00
	MARPOL Annex I	256	1.19	236	1.22	194	8.19
	Annex II	4	0.02	0	0.00	4	7.32
	Annex III	13	0.06	9	0.05	2	0.00
	Annex IV	55	0.26	56	0.29	45	3.96
	Annex V	312	1.45	233	1.20	165	0.56
	Annex VI	83	0.39	43	0.22	50	8.88
Operational Deficiencies	0	0.00	0	0.0	0	0.00	
ILO/MLC	Living Conditions	181	0.84	191	0.98	138	0.89
	Working Conditions	1,005	4.69	1,253	6.45	814	5.27
	Minimum Requirements for Seafarers	16	0.07	8	0.04	4	0.03
	Conditions of Employment	29	0.14	33	0.17	21	0.14
	Accommodation, Recreational	336	1.57	281	1.45	231	1.50
	Health Protection, Medical Care, Social Security	2,133	9.94	1,886	9.71	1,851	11.99
ISM	544	2.54	487	2.51	297	1.92	
Other	176	0.82	114	0.59	84	0.54	
TOTAL	21,450		19,422		15,442		

Major Deficiencies by Category (in the order 2020 top 10)

DEFICIENCIES BY CATEGORY	2018	2018 SHARE	2019	2019 SHARE	2020	2020 SHARE	2018-2020 SHARE
Safety of Navigation	3,394	15.8%	2,930	15.1%	2,335	15.12%	8,659
Life Saving Appliances	3,199	14.9%	2,686	13.8%	1,991	12.89%	7,876
Health Protection, Medical Care, Social Security	2,133	9.9%	1,886	9.7%	1,851	11.99%	4,936
Fire Safety	1,912	8.9%	1,887	9.7%	1,371	8.88%	5,170
Structural Conditions	1,422	6.6%	1,337	6.9%	1,264	8.19%	4,023
Emergency Systems	1,279	6.0%	1,300	6.7%	1,130	7.32%	3,709
Propulsion and Auxiliary Machinery	1,357	6.3%	1,368	7.0%	976	6.32%	3,701
Documents	1,454	6.8%	1,262	6.5%	954	6.18%	3,670
Working Conditions	1,005	4.7%	1,253	6.5%	814	5.27%	3,072
Radio Communications	1,045	4.9%	886	4.6%	611	3.96%	2,542
Others	3,250	15.2%	2,627	13.5%	2,145	13.89%	8,022
TOTALS	21,450		19,422		15,442		56,314

Top 5 Deficiencies 2018-2020

2018	2019	2020
Lights, Shapes, Sound-Signals 874 (4.07%)	Lights, Shapes, Sound-Signals 735 (3.78%)	Emergency, Lighting, Batteries and Switches 530 (2.73%)
Lifeboats 782 (3.65%)	Lifeboats 573 (2.95%)	Lights, Shapes, Sound-Signals 529 (2.72%)
Emergency, Lighting, Batteries and Switches 644 (3.00%)	Emergency, Lighting, Batteries and Switches 540 (2.78%)	Lifeboats 409 (2.11%)
Auxiliary Engine 542 (2.53%)	Auxiliary Engine 519 (2.67%)	Auxiliary Engine 383 (1.97%)
Lifebuoys Incl. Provision and Disposition 477 (2.22%)	ISM 487 (2.51%)	Lifebuoys Incl. Provision and Disposition 361 (1.86%)

Major Detainable Deficiencies by Category 2018-2020 (in the order 2020 top 10)

DETAINABLE DEFICIENCIES BY CATEGORY	2018	2018 SHARE	2019	2019 SHARE	2020	2020 SHARE	2018-2020 SHARE
Life Saving Appliances	136	14.3%	82	12.6%	94	13.9%	13.7%
Fire Safety	137	14.5%	103	15.8%	89	13.1%	14.4%
Emergency Systems	133	14.0%	103	15.8%	85	12.5%	14.1%
Safety of Navigation	113	11.9%	97	14.9%	81	11.9%	12.8%
ISM	65	6.9%	57	8.7%	67	9.9%	8.3%
Ship Certificates	36	3.8%	20	3.1%	62	9.1%	5.2%
Structural Conditions	94	9.9%	46	7.0%	55	8.1%	8.6%
Radio Communications	49	5.2%	16	2.5%	27	4.0%	4.0%
Working Conditions	17	1.8%	14	2.1%	23	3.4%	2.4%
Health Protection, Medical Care, Social Security	25	2.6%	23	3.5%	23	3.4%	3.1%
Others	143	15.1%	92	14.1%	72	10.6%	13.5%
TOTALS	948		653		678		

Top 5 Detainable Deficiencies 2018-2020

2018	2019	2020
Lifeboats 62 (6.54%)	ISM 57 (8.73%)	ISM 67 (10.26%)
Emergency, Lighting, Batteries and Switches 55 (5.80%)	Emergency, Lighting, Batteries and Switches 43 (6.58%)	Fire Detection and Alarm System 41 (6.28%)
Fire Detection and Alarm System 44 (4.64%)	Fire Detection and Alarm System 37 (5.67%)	Emergency Fire Pump and Its Pipes 29 (4.44%)
Lights, Shapes, Sound-Signals 34 (3.59%)	Lifeboats 33 (5.05%)	Lifeboats 27 (4.13%)
Emergency Fire Pump and Its Pipes 23 (2.43%)	Charts 28 (4.29%)	Rescue Boats 27 (4.13%)

Major RO Related Detainable Deficiencies by Category 2018-2020 (in the order 2020 top 5)

RO RELATED DETAINABLE DEFICIENCIES BY CATEGORY	2018	2018 SHARE	2019	2019 SHARE	2020	2020 SHARE	2018-2020 SHARE
Structural Conditions	2	4.3%	4	12.1%	14	18.9%	13.1%
Fire Safety	5	10.9%	0	0.0%	10	13.5%	9.8%
Life-saving Appliances	2	4.3%	1	3.0%	9	12.2%	7.8%
All Other Deficiencies	5	10.9%	3	9.1%	9	12.2%	11.1%
Emergency Systems	11	23.9%	11	33.3%	6	8.1%	18.3%
Ship Certificates	21	45.7%	14	42.4%	26	35.1%	39.9%
TOTALS	46		33		74		

RO Related Detainable Deficiencies 2018-2020

2018	2019	2020
Fire Pumps and Its Pipes 3 (1.08%)	ISM 4 (12.12%)	Rescue Boats 8 (24.24%)
Fire-Dampers 3 (1.08%)	Stability / Strength / Loading Information and Instruments 2 (6.06%)	ISM 7 (21.21%)
Closing Devices / Watertight Doors 2 (0.72%)	Cargo & Other Hatchways 2 (6.06%)	Emergency Fire Pump and Its Pipes 4 (12.12%)
Ballast, Fuel and Other Tanks 2 (0.72%)	Covers (Hatchway-, Portable-, Tarpaulins, etc.) 2 (6.06%)	Fire Detection and Alarm System 4 (12.12%)
Openings to Cargo Area, Doors, Scuttles 2 (0.72%)	Bulwarks & Freeing Ports 2 (6.06%)	Ventilation (Working Spaces) 4 (12.12%)
Emergency, Lighting, Batteries and Switches 2 (0.72%)		
Emergency Source of Power - Emergency Generator 2 (0.72%)		
Fire Detection and Alarm System 2 (0.72%)		
Lights, Shapes, Sound-Signals 2 (0.72%)		
Lifeboats 2 (0.72%)		

Top 5 MLC Deficiencies 2018-2020

2018	2019	2020
Lighting (Working Spaces) 417 (15.25%)	Lighting (Working Spaces) 323 (24.90%)	Ropes and Wires 341 (15.36%)
Access / Structural Features (Ship) 362 (13.24%)	Access / Structural Features (Ship) 314 (24.21%)	Access / Structural Features (Ship) 308 (13.87%)
Ropes and Wires 287 (10.50%)	Ropes and Wires 311 (23.98%)	Lighting (Working Spaces) 301 (13.56%)
Electrical 260 (9.51%)	Electrical 230 (17.73%)	Electrical 182 (8.20%)
Steam Pipes, Pressure Pipes, Wires (Insulation) 149 (5.45%)	Steam Pipes, Pressure Pipes, Wires (Insulation) 119 (9.18%)	Winches & Capstans 146 (6.58%)

Top 5 MLC Detainable Deficiencies 2018-2020

2018	2019	2020
Wages 8 (15.69%)	Wages 14 (43.75%)	Winches & Capstans 9 (28.13%)
Cleanliness of Engine Room 6 (11.76%)	Cleanliness of Engine Room 6 (18.75%)	Cleanliness of Engine Room 4 (12.50%)
Seafarers' Employment Agreement (SEA) 4 (7.84%)	Winches & Capstans 5 (15.63%)	Wages 3 (9.38%)
Steam Pipes, Pressure Pipes, Wires (Insulation) 4 (7.84%)	Anchoring Devices 4 (12.50%)	Non-payment of wages 2 (6.25%)
Anchoring Devices 3 (5.88%)	Other (Conditions of Employment) 3 (9.38%)	Heating, Air Conditioning and Ventilation 2 (6.25%)
		Heating, Air Conditioning and Ventilation 2 (6.25%)
		Ropes and Wires 2 (6.25%)
		Steam Pipes, Pressure Pipes, Wires (Insulation) 2 (6.25%)
		Access / Structural Features (Ship) 2 (6.25%)

Inspection, Deficiency and Detention Data by Ship Flag 2018-2020

SHIP FLAG	NUMBER OF INSPECTIONS	NUMBER OF DEFICIENCIES	NUMBER OF DETENTIONS	NUMBER OF DETAINABLE DEFICIENCIES	NUMBER OF INSPECTIONS WITH DEFICIENCIES
Algeria	10	46	0	0	4
Antigua and Barbuda	280	1149	18	39	161
Azerbaijan	47	191	4	8	33
Bahamas	322	730	11	18	126
Bangladesh	11	66	2	4	6
Barbados	95	347	5	12	57
Belgium	20	31	0	0	5
Belize	342	1,432	18	65	251
Bermuda (GB)	6	11	0	0	2
Bolivia	2	26	1	8	2
Bulgaria	57	255	1	4	44
Cambodia	3	7	0	0	2
Cameroon	26	110	0	0	25
Canada	2	4	0	0	1
Cayman Islands (GB)	68	130	1	2	23
Chile	1	3	0	0	1
China	28	37	0	0	7
Comoros	363	2,547	47	206	328
Congo	1	4	0	0	1
Cook Islands	331	1,555	20	59	249
Croatia	20	18	0	0	8
Curacao	1	2	0	0	1
Cyprus	157	415	6	11	60
Denmark	98	389	1	1	73
Dominica	2	2	0	0	1
Egypt	79	425	0	0	64
Ethiopia	22	38	0	0	4
Faroe Islands	2	0	0	0	0
Finland	2	11	0	0	2
France	5	23	0	0	5
Gabon	2	16	0	0	2
Georgia	11	40	1	3	9
Germany	19	104	2	2	14
Gibraltar (GB)	39	120	1	1	22
Greece	342	378	5	12	79
Honduras	11	81	2	5	10
Hong Kong, China	588	967	13	22	160
India	18	35	0	0	6
Indonesia	1	0	0	0	0
Iran, Islamic Republic of	9	27	0	0	4
Ireland	4	8	0	0	1
Isle of Man (GB)	83	161	0	0	39
Israel	8	22	1	1	7
Italy	183	465	11	15	95
Jamaica	2	12	0	0	2
Jordan	4	22	1	3	2
Kazakhstan	3	0	0	0	0
Korea, Republic of	14	32	0	0	6
Kuwait	2	5	0	0	2

Inspection, Deficiency and Detention Data by Ship Flag 2018-2020 (Continue)

SHIP FLAG	NUMBER OF INSPECTIONS	NUMBER OF DEFICIENCIES	NUMBER OF DETENTIONS	NUMBER OF DETAINABLE DEFICIENCIES	NUMBER OF INSPECTIONS WITH DEFICIENCIES
Latvia	1	0	0	0	0
Lebanon	26	83	3	9	22
Liberia	1,648	3,940	55	117	667
Libyan Arab Jamahiriya	8	6	0	0	4
Lithuania	5	45	0	0	4
Luxembourg	21	27	0	0	6
Malaysia	5	3	0	0	1
Malta	1,739	3,478	35	75	712
Marshall Islands	1,817	3,635	41	84	638
Moldova, Republic of	415	2,470	45	155	371
Mongolia	15	123	3	7	13
Montenegro	14	41	1	2	5
Morocco	1	2	0	0	1
Netherlands	195	481	7	18	90
Niue	4	36	1	2	4
Norway	110	225	2	4	41
Pakistan	5	25	1	5	2
Palau	209	1,178	18	86	180
Panama	2,674	10,537	154	451	1600
Philippines	47	97	1	3	13
Portugal	158	471	3	9	76
Qatar	4	3	0	0	1
Russian Federation	830	2,185	12	46	539
Saint Kitts and Nevis	86	319	4	9	66
Saint Vincent and the Grenadines	125	421	5	21	78
Samoa	4	49	2	12	4
Sao Tome and Principe	2	22	0	0	2
Saudi Arabia	7	7	0	0	2
Seychelles	5	6	1	1	3
Sierra Leone	369	1,964	24	84	320
Singapore	523	1,280	10	20	237
Spain	2	12	1	2	1
Sri Lanka	4	9	0	0	1
Switzerland	25	59	1	2	10
Syrian Arab Republic	22	232	5	37	18
Tanzania, United Republic of	341	2,957	47	225	313
Thailand	19	42	1	1	7
Togo	400	2,796	41	179	372
Tunisia	5	9	0	0	3
Turkey	949	2,707	3	10	603
Tuvalu	59	226	5	11	32
Ukraine	79	516	9	46	78
United Arab Emirates	1	4	0	0	1
United Kingdom	41	79	1	2	14
United States	7	33	0	0	6
Vanuatu	196	1,004	19	55	166
Vietnam	6	14	0	0	4
TOTAL	16,974	56,357	773	2,291	9,337

RO Inspection Deficiency and Detention Data 2018-2020

RECOGNIZED ORGANIZATION	NUMBER OF INSPECTIONS	NUMBER OF RO RELATED DETAINABLE DEFICIENCIES	NUMBER OF RO RELATED DETENTIONS	NUMBER OF DEFICIENCIES	NUMBER OF DETENTIONS	NUMBER OF DETAINABLE DEFICIENCIES	NUMBER OF INSPECTIONS WITH DEFICIENCIES
Aegean Register of Shipping	4	0	0	25	1	1	3
American Bureau of Shipping	1,852	1	1	3,500	40	68	690
American Register of Shipping	52	0	0	156	3	6	26
ASIA Classification Society	5	0	0	3	0	0	1
Bulgarian Register of Shipping	298	6	2	1,525	24	79	251
Bureau Veritas	3,001	4	2	8,028	110	265	1,380
C.T.M. Inspection and Classification Company, S. de R.L.	2	0	0	7	0	0	1
China Classification Society	333	0	0	395	3	9	67
Columbus American Register	44	7	2	384	7	41	42
Cosmos Marine Bureau Inc.	23	0	0	175	4	25	20
CR Classification Society (CCRS)	6	0	0	64	1	2	5
Croatian Register of Shipping	43	0	0	105	4	10	20
Cyprus Bureau of Shipping	2	0	0	0	0	0	0
Det Norske Veritas	184	0	0	278	1	2	68
DNV GL AS	3,572	2	2	7,741	84	165	1,402
Dromon Bureau of Shipping	671	28	5	3,965	56	225	586
Germanischer Lloyd	122	0	0	286	3	7	52
Global Shipping Bureau Inc.	1	0	0	6	0	0	1
Guardian Bureau of Shipping (GBS)	11	0	0	158	3	20	10
Hellenic Register of Shipping	6	0	0	52	1	1	5
Honduras International Surveying and Inspection Bureau	1	0	0	3	0	0	1
Indian Register of Shipping	145	0	0	715	9	19	112
Inter maritime Certification Services, ICS Class	90	0	0	444	10	33	71
International Maritime Register	2	0	0	16	0	0	2
International Naval Surveys Bureau	563	5	3	2,923	38	129	456
International Register of Shipping	137	1	1	751	8	32	121
International Ship Classification	19	0	0	48	0	0	10
Intertek Maritime Bureau	1	0	0	45	1	17	1
Iranian Classification Society	7	0	0	18	0	0	3
Isthmus Bureau of Shipping, S.A.	203	3	2	1,320	21	49	167
Korea Classification Society	15	0	0	46	0	0	5
Korea Ship Safety Technology Authority	1	0	0	0	0	0	0
Korean Register of Shipping	342	0	0	828	8	19	137
Libyan Surveyor Mr. Sif Ennasar Abdulhamid Giahmi	1	0	0	4	0	0	1

RO Inspection Deficiency and Detention Data 2018-2020 (Continue)

RECOGNIZED ORGANIZATION	NUMBER OF INSPECTIONS	NUMBER OF RO RELATED DETAINABLE DEFICIENCIES	NUMBER OF RO RELATED DETENTIONS	NUMBER OF DEFICIENCIES	NUMBER OF DETENTIONS	NUMBER OF DETAINABLE DEFICIENCIES	NUMBER OF INSPECTIONS WITH DEFICIENCIES
Lloyd's Register	2,771	5	3	6,432	62	131	1,159
Macosnar Corporation	121	1	1	672	12	28	96
Maritime Bureau of Shipping	59	3	1	388	7	25	54
Maritime Lloyd (ML)	250	14	4	2,187	43	158	232
Mediterranean Shipping Register (MSR)	144	17	4	676	12	67	131
National Shipping Adjuster Inc.	174	1	1	1,059	21	49	147
New United International Marine Services Ltd.	2	0	0	0	0	0	0
Nippon Kaiji Kyokai (NK/Class NK)	3,661	8	5	9,461	113	263	1,637
No Class	1	0	0	0	0	0	0
Other	486	25	6	3,332	59	264	407
Overseas Marine Certification Services	68	0	0	367	5	18	54
Panama Marine Survey and Certification Services Inc.	7	0	0	24	0	0	5
Panama Maritime Documentation Services	49	0	0	166	3	8	27
Panama Maritime Surveyor Bureau Inc.	3	0	0	8	0	0	1
Panama Register Corporation	6	0	0	18	0	0	3
Panama Shipping Registrar Inc.	35	1	1	160	2	5	26
Phoenix Register of Shipping	597	14	6	3,309	54	211	487
Polski Rejestr Statkow (Polish Register of Shipping)	186	2	1	720	9	35	109
Qualitas Register of Shipping S.A	55	0	0	228	3	9	33
R.J. Del Pan	3	0	0	5	0	0	1
RINA Services S.p.A.	1,182	1	1	2,903	40	86	539
Russian Maritime Register of Shipping	1,600	2	1	5,118	41	119	1,070
Russian River Register	2	0	0	4	0	0	2
Ship Classification of Malaysia	2	0	0	9	0	0	2
Shipping Register of Ukraine (SRU)	317	0	0	1,949	31	141	281
Turkish Lloyd	485	0	0	1,605	3	10	363
Union Bureau of Shipping	5	0	0	22	0	0	4
Universal Maritime Bureau Ltd	3	0	0	21	1	5	3
Vega Register Inc.	19	0	0	107	1	10	17
Veritas Register of Shipping	140	2	1	888	15	56	125
Vietnam Register	7	0	0	16	0	0	5
TOTAL	24,199	153	56	75,868	977	2,922	12,737

Note: Number of inspections and detentions are calculated corresponding to each recognized organization (RO) that issued certificate(s) for a ship. In case that ship's certificates were issued more than one ROs, the inspection and detention would be counted to each of them.



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