

Appendices

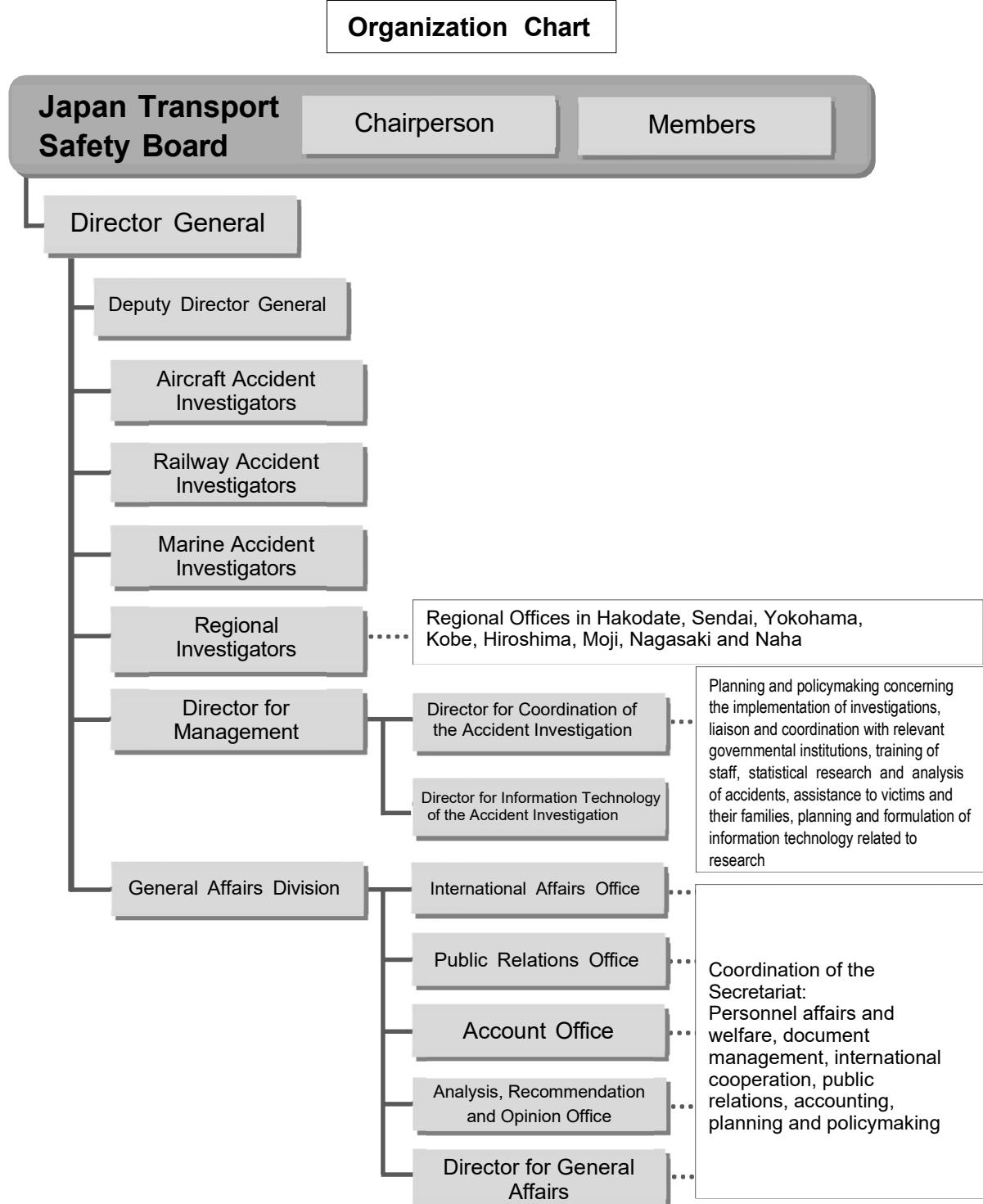
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1 Outline of the organization

The Japan Transport Safety Board consists of the Chairperson, 12 members, and 182 secretariat staff (quota, as of April 1, 2024). The staff in the secretariat consist of investigators who conduct investigations of aircraft, railway and marine accidents; the General Affairs Division that performs international cooperation, statistical analysis of accident investigations, etc. - related jobs for the secretariat; and the Director for Management who is dedicated to the support and statistical analysis of accident investigations. In addition, special support staff and regional investigators are stationed at eight regional offices around the country (Hakodate, Sendai, Yokohama, Kobe, Hiroshima, Moji, Nagasaki and Naha) to investigate marine accidents (excluding serious ones) and provide initial support for aircraft, railway and marine accidents investigation.

April 1, 2024



2 Board Members

As of March 1, 2025

TAKEDA Nobuo, Chairperson (Full-time), Director of Aircraft Committee

TAKEDA Nobuo was appointed as Chairperson of the Japan Transport Safety Board on April 1, 2019; belongs to the Aircraft Committee, the Railway Committee and the Marine Committee with special expertise in aerospace engineering, strength of materials and composite materials engineering. Career summary: PhD, University of Florida and Graduate School of Engineering, the University of Tokyo (doctor of engineering), Emeritus Professor, Former Vice President, the University of Tokyo, Former Technical Advisor in Structures and Advanced Composite Research Unit, Aeronautical Technology Directorate of the Japan Aerospace Exploration Agency (JAXA)

SODA Hisako, Member (Full-time)

SODA Hisako was appointed as a member on April 1, 2022; belongs to the Aircraft Committee, the Railway Committee and the Marine Committee with special expertise in legislation. Career summary: Graduated from Faculty of Law, the University of Tokyo, Former Judge, Tokyo District Court

TAKANO Shigeru, Member (Full-time) Vice-Chairperson, Deputy Director of Aircraft Committee

TAKANO Shigeru was appointed as a member on February 27, 2025; belongs to the Aircraft Committee, with special expertise in operation and maintenance of aircraft. Career summary: Graduated from Mechanical Engineering for Production, Faculty of Engineering, the University of Tokyo, Former Advisor, ANA Strategic Research Institute Co., Ltd.

MARUI Yuichi, Member (Full-time)

MARUI Yuichi was appointed as a member on December 6, 2016; belongs to the Aircraft Committee, with special expertise in maneuvering of aircraft. Career summary: Graduated from Civil Aviation College, Former D. Senior Vice President, Corporate Safety and Security, All Nippon Airways Co., Ltd.

OKUMURA Fuminao, Member (Full-time), Director of Railway Committee

OKUMURA Fuminao was appointed as a member on December 6, 2016; belongs to the Railway Committee, with special expertise in railway engineering and geotechnical engineering. Career summary: Doctor of Engineering, graduated from the Department of Civil Engineering, Faculty of Engineering, Tokyo Institute of Technology
Former Executive Director of the Railway Technical Research Institute

ISHIDA Hiroaki, Member (Full-time), Deputy Director of Railway Committee

ISHIDA Hiroaki was appointed as a member on December 26, 2016; belongs to the Railway Committee, with special expertise in dynamics of machinery, vehicle dynamics and railway vehicle engineering. Career summary: Doctor of Engineering, graduated from the Department of Industrial Mechanical Engineering, Faculty of Engineering, the University of Tokyo
Former Professor in the Program in Mechanical Engineering, Department of Interdisciplinary Science and Engineering, School of Science and Engineering, Meisei University

ITO Hiroyasu (Full-time), Director of Marine Committee

ITO Hiroyasu was appointed as a member on October 1, 2023; belongs to the Marine Committee and the Marine Special Committee, with special expertise in ship operation and maritime traffic safety. Career summary: Graduated from Japan Coast Guard Academy Former Coast Guard Superintendent, Japan Coast Guard Former President of Maritime Disaster Prevention Center

UENO Michio, Member (Full-time), Deputy Director of Marine Committee

UENO Michio was appointed as a member on October 1, 2023; belongs to the Marine Committee and the Marine Special Committee, with special expertise in naval architect. Career summary: Doctor of Engineering,

Graduate School of Engineering, Osaka University,
Former Special Research Leader of National Maritime Research Institute, National Institute of Maritime, Port and Aviation Technology

TSUDA Hiroka, Member (Part-time)

TSUDA Hiroka was appointed as a member on October 1, 2020; belongs to the Aircraft Committee, with special expertise in flight dynamics and control of aircraft, flight simulation and flight test.

Career summary: Completion of the doctoral first course for Department of Human Media Systems, Graduate School of Information Systems, The University of Electro-Communications Senior R&D Fellow, Fundamental Aeronautics Research Unit, Senior Chief Officer of Fundamental Aeronautics Research, Japan Aerospace Exploration Agency (current post)

MATSUI Yuko, Member (Part-time)

MATSUI Yuko was appointed as a member on February 27, 2025; belongs to the Aircraft Committee, with special expertise in Ergonomics (human factors), Industrial Psychology.

Career summary: Doctor of Graduate School of Human Sciences, The University of Osaka, Research Center for Human Factors, Institute of Social Research, Institute of Nuclear Safety System, Inc. Institute of Nuclear Safety System, Inc. (current post)

SUZUKI Mio, Member (Part-time)

SUZUKI Mio was appointed as a member on December 6, 2019; belongs to the Railway Committee, with special expertise in traffic engineering and ergonomics.

Career summary: Doctor of Engineering, Department of Built Environment, Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology

Associate Professor in the Department of Civil Engineering, Tokai University (current post)

NIITSUMA Mihoko, Member (Part-time)

NIITSUMA Miho was appointed as a member on December 6, 2019; belongs to the Railway Committee, with special expertise in electrical engineering.

Career summary: Doctor of Engineering, Department of Electrical Engineering and Information Systems, Graduate School of Engineering, The University of Tokyo

Professor in the Department of Precision Mechanics, Faculty of Science and Engineering, Chuo University (current post)

OKAMOTO Makiko, Member (Part-time)

OKAMOTO Makiko was appointed as a member on October 1, 2017; belongs to the Marine Committee and the Marine Special Committee, with special expertise in ergonomics. Career Summary: Doctor of Human Sciences, Graduate School of Human Sciences, Waseda University, Lawyer, Associate Professor in Faculty of Social Security Science, Kansai University (current post)

The chairperson and members of the Board shall be appointed by the Minister of Land, Infrastructure, Transport and Tourism with the consent of both houses of Representatives and Councilors.

3 Number of occurrences by aircraft category (aircraft accidents)

(Cases)

Category Year of occurrence	Aircraft			Rotorcraft		Glider	Airship	Small UA	Total
	Large aeroplane	Small aeroplane	Ultralight plane	Helicopter	Gyroplane				
1974	8	15	0	17	1	8	0	-	49
1975	3	16	0	16	0	8	0	-	43
1976	9	26	0	14	0	7	0	-	56
1977	5	12	0	16	1	5	0	-	39
1978	4	10	0	18	1	6	0	-	39
1979	8	14	0	20	1	6	1	-	50
1980	5	11	0	22	0	3	0	-	41
1981	3	10	1	18	0	8	0	-	40
1982	3	16	0	9	1	7	0	-	36
1983	4	13	10	12	0	7	0	-	46
1984	4	5	6	13	1	3	0	-	32
1985	5	11	6	15	0	4	0	-	41
1986	4	12	14	15	3	4	0	-	52
1987	8	17	8	8	1	3	0	-	45
1988	5	6	7	12	2	3	1	-	36
1989	2	6	11	9	1	12	0	-	41
1990	3	11	9	16	2	7	0	-	48
1991	2	10	6	19	0	7	0	-	44
1992	3	5	5	7	0	4	0	-	24
1993	4	5	3	17	1	2	0	-	32
1994	3	4	8	13	0	2	0	-	30
1995	4	7	10	6	0	1	0	-	28
1996	8	11	5	8	0	4	0	-	36
1997	3	11	3	8	2	3	0	-	30
1998	4	14	5	6	1	6	0	-	36
1999	1	9	5	7	1	5	0	-	28
2000	1	5	5	11	1	5	0	-	28
2001	2	5	2	8	0	4	0	-	21
2002	4	4	5	15	0	7	0	-	35
2003	2	10	3	1	0	2	0	-	18
2004	4	11	2	6	1	3	0	-	27
2005	1	8	0	7	0	7	0	-	23
2006	3	3	4	2	1	5	0	-	18
2007	5	3	4	7	0	4	0	-	23

Category Year of occurrence	Aircraft			Rotorcraft		Glider	Airship	Small UA	Total
	Large aeroplane	Small aeroplane	Ultralight plane	Helicopter	Gyroplane				
2008	3	6	2	3	0	3	0	-	17
2009	6	2	1	7	0	3	0	-	19
2010	0	4	2	4	0	2	0	-	12
2011	1	8	1	3	0	1	0	-	14
2012	8	3	2	4	0	1	0	-	18
2013	1	4	1	3	0	2	0	-	11
2014	4	5	2	1	0	5	0	-	17
2015	3	9	3	3	1	8	0	-	27
2016	3	4	1	2	0	4	0	-	14
2017	2	8	3	5	1	2	0	-	21
2018	3	3	4	3	0	1	0	-	14
2019	4	1	2	2	0	3	0	-	12
2020	4	1	4	3	1	0	0	-	13
2021	1	2	2	3	0	3	0	-	11
2022	7	5	4	3	0	2	0	0	21
2023	4	5	0	5	0	2	0	1	17
2024	7	4	0	4	0	3	0	1	19
Total	198	410	181	456	26	217	2	2	1492

(Note) 1. The figures include the cases handled by the Aircraft Accident Investigation Committee and the Aircraft and Railway Accidents Investigation Commission.

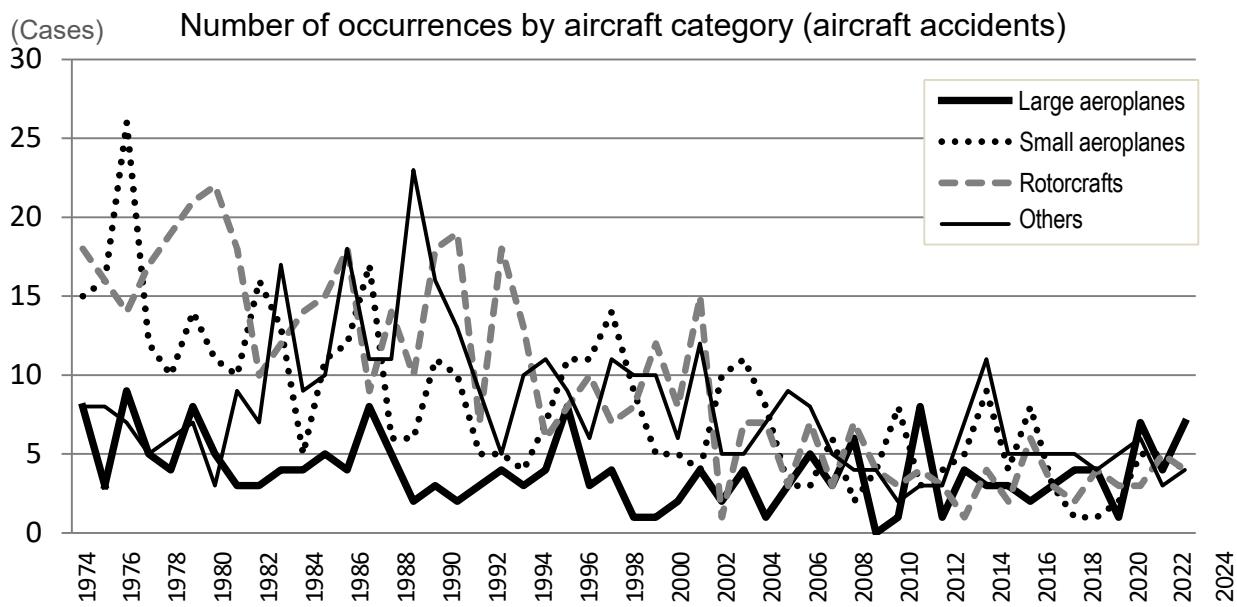
2. Large aeroplanes are aircraft with a maximum take-off weight of more than 5,700 kg.

3. Small aeroplanes are aircrafts with a maximum take-off weight of 5,700kg or less, excluding Ultralight planes.

4. Ultralight planes include self-made, ultralight plane-shaped aircrafts.

5. Gyroplanes include self-made, gyroplane-shaped aircrafts.

6. The number of small UA in 2022 is from December onward.



4 Number of fatalities in accidents (aircraft accidents)

(Persons)

Year of occurrence	Category	Aircraft			Rotorcraft		Glider	Total	
		Large aeroplane	Small aeroplane	Ultralight plane	Helicopter	Gyroplane			
2008	Crew	0	1	1	2	0	1	5	5
	Passengers and others	0	0	0	0	0	0	0	
2009	Crew	2	0	2	5	0	0	9	9
	Passengers and others	0	0	0	0	0	0	0	
2010	Crew	0	2	1	14	0	0	17	17
	Passengers and others	0	0	0	0	0	0	0	
2011	Crew	0	5	0	1	0	0	6	6
	Passengers and others	0	0	0	0	0	0	0	
2012	Crew	0	0	0	0	0	0	0	1
	Passengers and others	0	1	0	0	0	0	0	
2013	Crew	0	0	0	0	0	1	1	2
	Passengers and others	0	0	0	0	0	1	1	
2014	Crew	0	1	0	0	0	0	1	2
	Passengers and others	0	1	0	0	0	0	0	
2015	Crew	0	1	1	2	0	1	5	10
	Passengers and others	0	2	1	2	0	0	5	
2016	Crew	0	1	0	0	0	3	4	8
	Passengers and others	0	3	0	0	0	1	4	

2017	Crew	0	2	0	2	1	1	6	22
	Passengers and others	0	4	0	12	0	0	16	
2018	Crew	0	0	2	1	0	0	3	11
	Passengers and others	0	0	0	8	0	0	8	
2019	Crew	0	0	1	0	0	0	1	1
	Passengers and others	0	0	0	0	0	0	0	
2020	Crew	0	0	1	1	0	0	2	2
	Passengers and others	0	0	0	0	0	0	0	
2021	Crew	0	0	0	1	0	1	2	3
	Passengers and others	0	0	0	0	0	1	1	
2022	Crew	0	2	1	1	0	1	5	9
	Passengers and others	0	2	1	0	0	1	4	
2023	Crew	0	0	0	0	0	1	1	1
	Passengers and others	0	0	0	0	0	0	0	
2024	Crew	0	0	0	2	0	0	2	7
	Passengers and others	5	0	0	0	0	0	5	
Total	Crew	2	15	10	32	1	10	70	116
	Passengers and others	5	13	2	22	0	4	46	
	Total	7	28	12	54	1	14		

(Note) 1. The figures include the cases handled by the Aircraft and Railway Accidents Investigation Commission in 2008

2. Death tolls represent data for the respective years of occurrence relisted from the annual reports published for those years.
3. Large aeroplanes are aircrafts with a maximum take-off weight of more than 5,700 kg.
4. Small aeroplanes are aircrafts with a maximum take-off weight of 5,700kg or less, excluding Ultralight planes.
5. Ultralight planes include self-made, ultralight plane-shaped aircrafts.
6. Gyroplanes include self-made, gyroplane-shaped aircrafts.

5 Number of occurrences by aircraft category (aircraft serious incidents)

(Cases)

Category Year of occurrence	Aircraft			Rotorcraft		Glider	Airship	Small UA	Total
	Large aeroplane	Small aeroplane	Ultralight plane	Helicopter	Gyroplane				
2001	3	0	0	0	0	0	0	-	3
2002	0	1	2	1	0	1	0	-	5
2003	7	1	4	2	0	1	0	-	15
2004	5	3	4	2	0	0	0	-	14
2005	10	3	1	1	0	0	0	-	15
2006	2	2	0	0	0	0	0	-	4
2007	6	2	2	1	0	1	0	-	12
2008	4	1	0	0	0	0	0	-	5

2009	4	5	0	2	0	0	0	-	11
2010	7	1	3	1	0	0	0	-	12
2011	6	0	0	0	0	0	0	-	6
2012	4	2	0	3	0	1	0	-	10
2013	4	2	0	2	0	0	0	-	8
2014	1	1	0	2	0	0	0	-	4
2015	4	1	0	4	0	0	0	-	9
2016	4	1	0	4	0	0	0	-	9
2017	5	5	0	6	0	1	0	-	17
2018	8	0	0	3	0	1	0	-	12
2019	10	2	0	2	0	3	0	-	17
2020	4	1	1	3	0	0	0	-	9
2021	1	5	1	4	0	1	0	-	10
2022	2	6	1	4	0	1	0	0	14
2023	2	6	1	4	0	1	0	0	14
2024	4	5	1	5	0	1	0	0	16
Total	107	56	21	54	0	13	0	0	251

(Note) 1. The figures include the cases handled by the Aircraft and Railway Accidents Investigation Commission.

The number of cases for 2001 represents those that occurred from October onward.

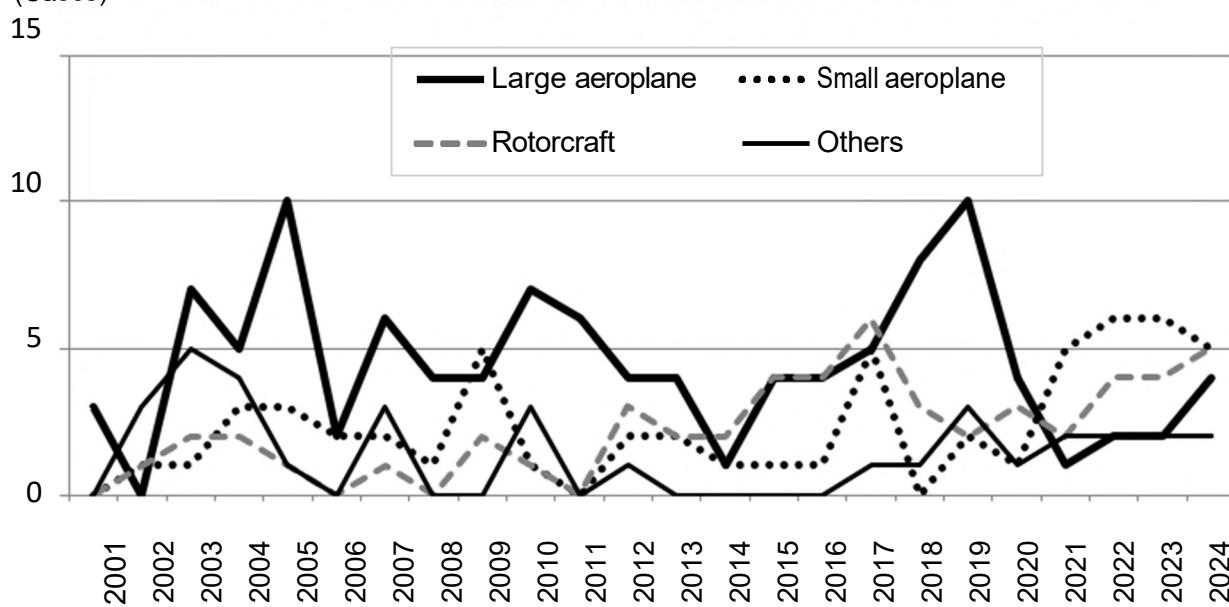
2. Large aeroplanes are aircrafts with a maximum take-off weight of more than 5,700 kg.

3. Small aeroplanes are aircrafts with a maximum take-off weight of 5,700kg or less, excluding Ultralight planes.

4. Ultralight planes include self-made, ultralight plane-shaped aircrafts.

5. The number of small UA in 2022 is from December onward.

(Cases) Number of occurrences by aircraft category (aircraft serious incidents)



6 Number of occurrences by type (railway accidents)

(Cases)

Type Year of occurrence	Tramway										Total
	Heavy property loss without casualties	Other accidents with casualties	Accident against road traffic	Level crossing accident	Vehicle fire	Vehicle derailment	Vehicle collision	Heavy property loss without casualties	Other accidents with casualties	Accident against road traffic	
2001	0	4	1	0	0	0	0	0	0	0	5
2002	1	14	1	2	0	1	1	0	0	0	20
2003	1	20	2	0	0	0	0	0	0	0	23
2004	0	18	0	1	0	0	0	0	1	0	20
2005	2	20	0	0	0	1	0	0	1	0	24
2006	1	13	0	1	0	0	0	1	0	0	16
2007	0	12	2	3	0	0	0	0	2	0	19
2008	0	7	2	2	0	1	1	0	0	0	13
2009	0	5	1	2	0	3	0	0	0	0	11
2010	0	6	0	0	0	1	0	0	0	2	9
2011	0	12	0	1	0	1	0	0	0	0	14
2012	0	13	2	0	0	2	0	0	2	0	1
2013	0	11	1	1	0	1	0	0	1	0	15
2014	1	9	0	4	0	0	0	0	0	0	14
2015	1	5	1	4	0	1	0	0	1	0	13
2016	0	7	0	15	0	0	0	0	1	0	23
2017	0	9	0	7	0	2	1	0	0	0	19
2018	0	2	0	9	0	0	0	0	0	0	11
2019	0	9	0	7	0	1	0	0	0	0	17
2020	0	7	0	6	0	0	0	0	0	0	13
2021	0	6	0	5	0	0	0	0	0	0	11
2022	0	5	0	8	0	1	0	0	0	0	14
2023	0	3	0	5	0	3	0	0	0	0	11
2024	0	6	0	3	0	1	0	0	0	0	10
Total	7	223	13	86	0	20	3	1	9	0	365

(Note) 1. The figures include the cases handled by the Aircraft and Railway Accidents Investigation Commission.

2. The number of cases for 2001 represents those that occurred from October onward.

7 Number of fatalities in accidents (railway accidents)

(Persons)

Death Classification Year of occurrence	Crew members	Passengers	Others	Total
2008	0	0	2	2
2009	0	0	3	3
2010	0	0	2	2
2011	0	0	1	1
2012	0	0	1	1
2013	0	0	1	1
2014	0	0	6	6
2015	0	2	4	6
2016	0	0	15	15
2017	0	0	10	10
2018	0	0	9	9
2019	0	0	8	8
2020	0	0	8	8
2021	0	0	5	5
2022	0	0	9	9
2023	0	0	7	7
2024	0	0	5	5
Total	0	2	96	98

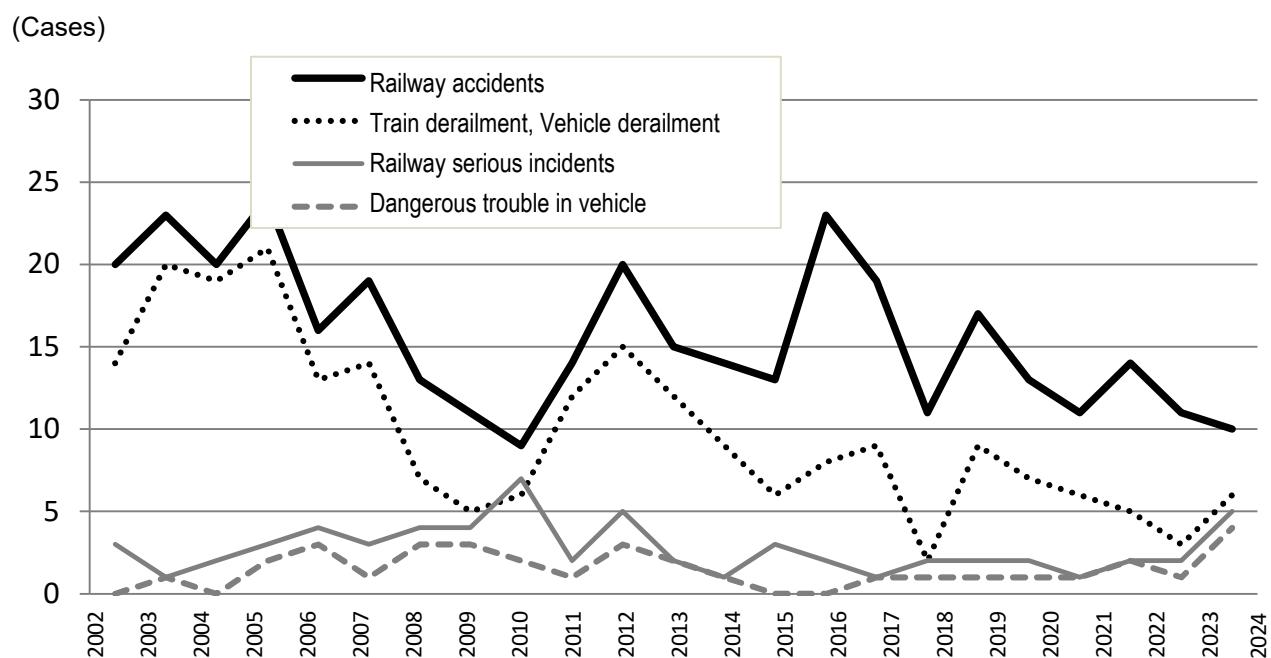
(Note) 1. The figures include the cases handled by the Aircraft and Railway Accidents Investigation Commission in 2008
 2. Fatality tolls represent data for the respective years of occurrence relisted from the annual reports published for those years.
 3. As investigations began to cover fatal accidents at third- and fourth-class crossings without crossing gates in April 2014, the number of fatalities occurring in those locations were added.

8 Number of occurrences by type (railway serious incidents)

Type Year of occurrence	Main track overrun	Railway										Tramway			Total
		Violating red signal	Violating red signal												
Incorrect management	Incorrect indication of signal	Incorrect management	Others	Heavy leakage of dangerous object	Dangerous trouble in vehicle										
2001	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
2002	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
2003	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
2004	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
2005	0	1	0	0	0	0	0	2	0	0	0	0	0	0	3
2006	0	0	0	0	0	0	0	3	0	1	0	0	0	0	4
2007	0	1	0	0	1	0	0	1	0	0	0	0	0	0	3
2008	0	0	0	0	1	0	0	3	0	0	0	0	0	0	4
2009	0	1	0	0	0	0	0	3	0	0	0	0	0	0	4
2010	1	0	0	0	1	1	0	2	0	0	1	1	0	0	7
2011	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2
2012	0	0	0	0	1	1	0	3	0	0	0	0	0	0	5
2013	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
2014	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
2015	0	0	0	0	0	0	1	0	0	2	0	0	0	0	3
2016	0	0	0	0	1	0	0	0	0	0	1	0	0	0	2
2017	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
2018	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2
2019	0	0	0	0	0	0	0	1	0	0	1	0	0	0	2
2020	0	0	0	1	0	0	0	1	0	0	0	0	0	0	2
2021	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
2022	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
2023	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2
2024	0	0	0	1	0	0	0	0	0	0	0	0	4	0	5
Total	1	7	0	2	7	2	3	30	0	3	3	1	1	0	64

(Note) 1. The figures include the cases handled by the Aircraft and Railway Accidents Investigation Commission.

2. The number of cases for 2001 represents those that occurred from October onward.

Number of occurrence by type (railway accidents and incidents)

9 Number of occurrences by area (marine accidents and incidents)

(Cases)

Year of occurrence Area	In Japanese territorial waters			Outside Japanese territorial waters	Total
	In ports specified by the Cabinet Order	Within 12 nautical miles	Internal waters		
2007	0	3	0	0	3
2008	227	576	15	55	873
2009	341	1,065	34	82	1,522
2010	305	909	38	82	1,334
2011	238	781	28	79	1,126
2012	224	807	31	53	1,115
2013	214	764	35	69	1,082
2014	193	762	31	44	1,030
2015	153	674	44	39	910
2016	147	638	43	21	849
2017	154	670	35	47	906
2018	186	689	38	44	957
2019	218	761	53	35	1,067
2020	177	640	37	17	871
2021	156	686	26	18	886
2022	178	652	41	21	892
2023	135	634	35	15	819
2024	103	475	33	17	628
Total	3,349	12,186	597	738	16,870

(Note) The above table shows the number of accidents and incidents into which the JTSB launched an investigation as of the end of December 2023 (including those carried over from the former Marine Accident Inquiry Agency).

10 Number of occurrences by type (marine accidents and incidents)

Type Year of occurrence	Marine accidents										Marine incidents				(Cases) Total		
	Collision	Contact	Grounding	Foundering	Flooding	Capsizing	Fire	Explosion	Missing	Facility damage	Fatality/injury	Others	Stranded	Navigation obstruction	Safety obstruction		
2007	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	3	
2008	181	101	255	12	4	28	15	3	0	30	61	0	54	34	8	873	
2009	325	174	431	16	19	58	42	3	0	38	217	2	105	33	0	59	1,522
2010	356	180	369	15	18	50	35	2	0	26	146	0	83	16	0	38	1,334
2011	282	145	265	12	18	56	32	1	0	23	142	1	103	10	1	35	1,126
2012	246	133	264	5	21	55	44	2	0	33	155	0	113	5	4	35	1,115
2013	264	145	210	10	25	49	33	2	0	38	163	2	106	7	3	25	1,082
2014	265	116	213	7	11	61	35	1	0	37	150	3	92	15	0	24	1,030
2015	244	102	202	5	12	56	38	3	0	20	122	1	85	4	4	12	910
2016	217	94	163	5	19	46	26	3	0	21	144	0	85	6	6	14	849
2017	200	96	181	14	22	55	27	3	0	23	143	0	115	4	3	20	906
2018	243	86	172	21	26	52	24	2	0	24	180	0	107	10	0	10	957
2019	219	98	201	11	26	67	31	1	0	40	145	2	181	24	0	21	1,067
2020	188	94	156	13	14	52	29	2	0	21	134	1	141	14	2	10	871
2021	199	81	173	3	36	66	26	3	0	33	125	2	122	12	1	4	886
2022	193	99	146	9	18	54	30	2	0	12	139	3	167	17	0	3	892
2023	170	102	150	8	22	45	28	2	0	9	122	1	141	12	0	7	819
2024	117	73	158	7	16	46	26	1	0	7	98	0	71	3	0	5	628
Total	3,909	1,920	3,711	173	327	896	521	36	0	435	2,386	18	1,871	226	32	409	16,870

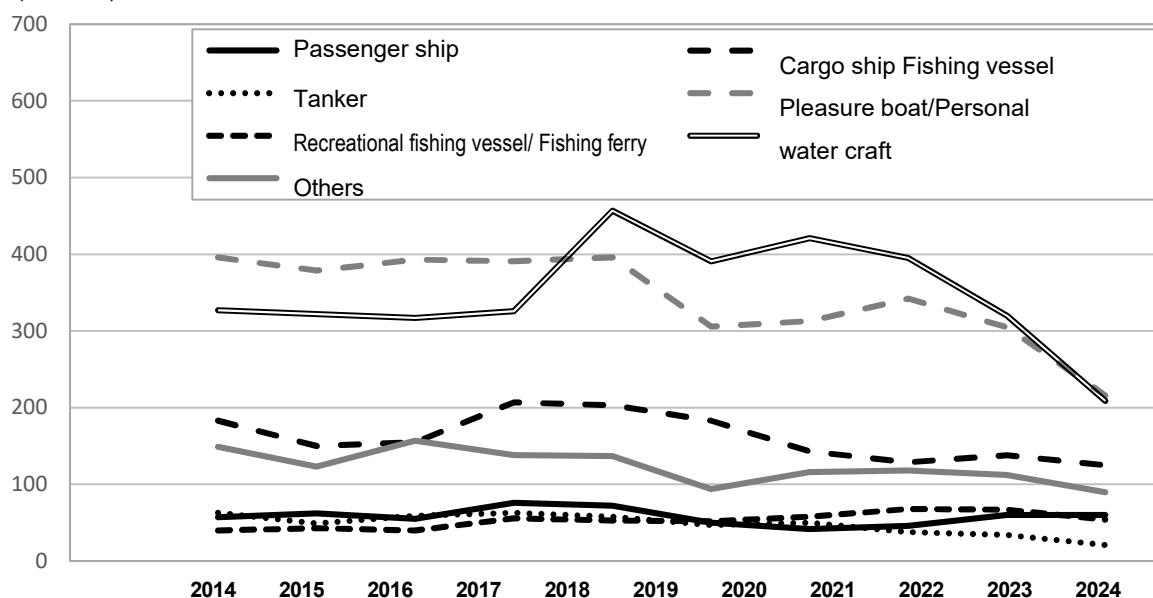
(Note) 1. The above table shows the number of accidents and incidents into which the JTSB launched an investigation as of the end of December 2023 (including those carried over from the former Marine Accident Inquiry Agency).
 2. The figures in the column "Fatality/injury" (which is not a result from other types of accident) are the number of cases involving fatality, injury, or missing persons.

11 Number of vessels involved in accidents and incidents by type of vessel (marine accidents and incidents)

Year of occurrence	Type of Vessel	(Vessels)												Total	
		Passenger ship	Cargo ship	Tanker	Fishing vessel	Tug boat, push boat	Recreational fishing vessel	Fishing ferry	Work vessel	Barge, lighter	Public-service ship	Pleasure boat	Personal water craft	Others	
2007		2	1	0	0	0	0	0	0	0	0	0	0	0	3
2008		55	318	55	307	98	28	6	27	59	11	126	31	7	1,128
2009		103	480	83	605	163	39	5	35	104	40	249	65	23	1,994
2010		99	398	105	555	123	53	6	48	82	24	251	66	18	1,828
2011		68	285	105	504	89	38	6	29	50	16	250	46	21	1,507
2012		79	296	75	467	91	33	8	36	59	14	247	55	8	1,468
2013		62	231	70	485	101	41	4	37	72	24	264	64	18	1,473
2014		63	235	71	436	91	39	5	36	58	17	253	69	13	1,386
2015		57	183	63	396	53	33	7	28	45	14	279	48	9	1,215
2016		62	150	49	379	47	36	7	27	33	11	254	68	5	1,128
2017		55	155	59	393	63	37	3	29	45	13	275	42	7	1,176
2018		76	207	63	391	52	48	8	20	36	14	269	57	16	1,257
2019		72	203	58	396	50	47	6	30	32	10	411	46	15	1,376
2020		50	183	47	305	35	50	2	14	22	9	335	56	13	1,121
2021		42	144	50	313	37	53	5	31	23	12	364	57	14	1,145
2022		46	129	38	341	38	64	5	27	22	17	341	55	14	1,137
2023		59	138	34	305	41	65	2	25	19	11	286	34	16	1,035
2024		60	125	21	216	32	50	4	15	21	15	164	45	7	775
Total		1,110	3,861	1,046	6,794	1,204	754	89	494	782	272	4,618	904	224	22,152

(Note) The above table shows the number of vessels involved in accidents and incidents into which the JTSB launched an investigation as of the end of December 2024 (including those carried over from the former Marine Accident Inquiry Agency).

(Vessels) Number of vessels involved in accidents and incidents by types of vessels



12 Number of vessels involved in accidents and incidents by gross tonnage (marine accidents and incidents)

(Vessels)

Gross Tonnage \ Year of occurrence	Less than 20 tons	20 to less than 100 tons	100 to less than 200 tons	200 to less than 500 tons	500 to less than 1,600 tons	1,600 to less than 3,000 tons	3,000 to less than 5,000 tons	5,000 to less than 10,000 tons	10,000 to less than 30,000 tons	More than 30,000 tons	Unknown	Total
2007	1	0	0	1	0	0	0	0	0	0	1	3
2008	485	52	138	216	77	24	16	17	10	15	78	1,128
2009	903	89	230	288	116	42	34	49	30	14	199	1,994
2010	900	86	175	260	128	36	37	39	25	24	118	1,828
2011	823	59	142	194	101	39	18	32	21	17	61	1,507
2012	790	53	133	199	78	33	25	38	25	20	74	1,468
2013	881	44	113	142	93	47	27	36	19	17	54	1,473
2014	839	46	86	145	87	38	26	29	17	17	56	1,386
2015	762	43	66	111	64	32	18	28	22	19	50	1,215
2016	745	31	64	104	61	23	17	21	18	10	34	1,128
2017	756	39	80	116	69	24	14	22	17	6	33	1,176
2018	798	32	79	118	75	46	31	19	15	12	32	1,257
2019	929	32	47	130	68	29	20	34	11	14	62	1,376
2020	767	19	47	124	54	21	6	27	13	15	28	1,121
2021	810	27	40	99	51	18	18	14	14	16	38	1,145
2022	787	30	42	118	37	19	10	21	9	4	60	1,137
2023	701	23	41	106	42	14	8	18	14	9	59	1,035
2024	456	20	40	77	32	12	9	17	9	14	89	775
Total	13,133	725	1,563	2,548	1,233	497	334	461	289	243	1,126	22,152

(Vessels)

(Note) The above table shows the number of accidents and incidents into which the JTSB launched an investigation as of the end of December 2024 (including those carried over from the former Marine Accident Inquiry Agency).

13 Number of vessels involved in accidents and incidents in 2024 by type of accident/incident and type of vessel (marine accidents and incidents)

Type of accident /incident	Type of Vessel	Marine accidents										Marine incidents				(Vessels)	
		Collision	Contact	Grounding	Foundering	Flooding	Capsizing	Fire	Explosion	Missing	Facility damage	Fatality/injury	Others	Stranded	Loss of control	Navigation obstruction	Safety obstruction
Passenger ship	11	22	7	0	3	1	1	0	0	1	4	0	5	1	0	4	60
Cargo ship	42	27	31	0	2	1	4	1	0	2	8	0	7	0	0	0	125
Tanker	7	2	4	0	0	1	1	0	0	0	2	0	4	0	0	0	21
Fishing vessel	76	5	40	1	1	20	9	0	0	2	47	0	13	1	0	0	216
Tug boat, push boat	12	2	10	2	1	4	0	0	0	0	1	0	0	0	0	0	32
Recreational fishing vessel	19	4	11	2	0	1	5	0	0	1	4	0	3	0	0	0	50
Fishing ferry	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Work vessel	3	1	4	0	0	5	0	0	0	0	1	0	1	0	0	0	15
Barge, lighter	8	2	6	1	0	2	0	0	0	0	2	0	0	0	0	0	21
Public-service ship	2	2	4	1	0	0	4	0	0	1	0	0	1	0	0	0	15
Pleasure boat	36	9	42	2	8	15	2	0	0	1	16	0	33	0	0	0	164
Personal water craft	21	2	3	0	0	0	0	0	0	0	14	0	4	1	0	0	45
Others	3	0	1	0	0	2	0	0	0	0	1	0	0	0	0	0	7
Total	241	78	166	9	16	52	25	1	0	8	100	0	71	3	0	5	775

(Note) 1. The above table shows the number of vessels involved in accidents and incidents into which the JTSB launched an investigation as of the end of December 2024.

2. The figures in the column "Fatality/Injury" (which is not a result from other types of accident) are the number of cases involving fatality, injury or missing persons.

14 Number of fatalities in accidents (marine accidents)

Year of occurrence		Type of Vessel	Passenger ship	Cargo ship	Tanker	Fishing vessel	Recreational fishing vessel/ Fishing ferry	Pleasure boat/Personal water craft	Others	Total	(Persons)
2008	Crew	0	2	1	51	1	5	1	61	71	
	Passengers	0	0	0	0	2	0	0	0		
	Others	0	0	0	0	1	6	1	8		
2009	Crew	3	1	2	109	0	26	4	145	191	
	Passengers	0	0	0	0	3	0	0	0		
	Others	1	5	0	6	0	27	4	43		
2010	Crew	1	10	1	74	0	11	2	99	129	
	Passengers	0	0	0	0	1	0	0	0		
	Others	0	3	0	1	1	22	2	29		
2011	Crew	3	4	8	83	3	18	7	126	146	
	Passengers	4	0	0	0	2	0	0	0		
	Others	0	2	0	0	0	12	0	14		
2012	Crew	2	6	4	79	1	22	3	117	133	
	Passengers	1	0	0	0	2	0	0	0		
	Others	1	1	0	1	0	8	2	13		
2013	Crew	0	17	2	69	0	19	7	114	134	
	Passengers	0	0	0	0	1	0	0	0		
	Others	0	2	0	0	0	16	1	19		
2014	Crew	0	11	3	89	0	17	3	123	138	
	Passengers	0	0	0	0	2	0	0	0		
	Others	0	1	1	1	0	10	0	13		

Year of occurrence		Type of Vessel	(Persons)						
Year of occurrence	Type of Vessel	Total							
		Crew	Passenger ship	Cargo ship	Tanker	Fishing vessel	Recreational fishing vessel/ Fishing ferry	Pleasure boat/ Personal water craft	Others
2015	Crew	3	5	0	44	0	12	5	69
	Passengers	2	0	0	0	2	0	0	4
	Others	0	0	0	0	0	13	1	14
2016	Crew	1	4	5	45	1	10	4	70
	Passengers	0	0	0	0	2	0	0	2
	Others	0	2	0	2	0	15	2	21
2017	Crew	2	4	0	46	0	7	20	79
	Passengers	0	0	0	0	0	0	0	0
	Others	0	0	0	0	0	12	2	14
2018	Crew	0	2	1	48	0	10	2	63
	Passengers	0	0	0	0	1	0	0	1
	Others	1	0	0	1	0	17	4	23
2019	Crew	0	17	0	57	1	11	1	87
	Passengers	0	0	0	0	1	0	0	1
	Others	0	3	0	1	0	10	1	15
2020	Crew	1	3	1	47	1	12	2	67
	Passengers	0	0	0	0	3	0	0	3
	Others	0	2	0	0	0	11	4	17
2021	Crew	0	4	1	51	0	15	3	74
	Passengers	0	0	0	0	1	0	0	1
	Others	0	1	0	0	0	14	0	15
2022	Crew	2	1	1	44	0	10	5	63
	Passengers	18	0	0	0	1	0	0	19
	Others	0	0	0	3	0	4	2	9
2023	Crew	2	3	0	34	1	9	4	53
	Passengers	1	0	0	0	3	0	1	5
	Others	0	1	0	0	0	3	1	5
2024	Crew	0	4	8	38	1	15	3	69
	Passengers	0	0	0	0	1	0	1	2
	Others	0	0	0	2	0	7	3	12
Total	Crew	20	98	38	1,008	10	229	76	1,479
	Passengers	26	0	0	0	28	0	2	56
	Others	3	23	1	18	2	207	30	284
	Total	49	121	39	1,026	40	436	108	

(Note) The above table shows the number of fatalities in accidents into which the JTSB launched an investigation as of the end of December 2024 (including those carried over from the former Marine Accident Inquiry Agency).

15 Numbers of issued recommendations, opinions and safety recommendations

Year	Type and mode	Recommendation			Opinion			Safety recommendation	
		Aviation	Railway	Marine	Aviation	Railway	Marine	Aviation	Marine
2008		—	—	—	2	—	—	—	—
2009		—	—	—	1	1	1	3	—
2010		—	—	—	—	—	1	1	—
2011		—	1	2	1	—	5	—	9
2012		1	1	6	1	—	4	1	2
2013		4	3	4	—	—	2	3	—
2014		4	—	—	—	—	1	2	6
2015		2	—	—	—	1	—	—	—
2016		1	—	—	—	—	—	1	3
2017		1	—	1	—	—	—	—	2
2018		1	—	1	1	2	2	—	1
2019		1	—	1	—	1	1	—	5
2020		3	—	2	—	—	—	—	1
2021		—	1	3	—	1	—	—	4
2022		—	—	1	—	—	3	—	—
2023		—	1	—	—	—	1	—	—
2024		—	1	—	—	—	1	—	2
Total		18	8	21	6	6	22	11	35

(Note) These were issued after the establishment of the JTSB in October 2008.

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