

Appendixes

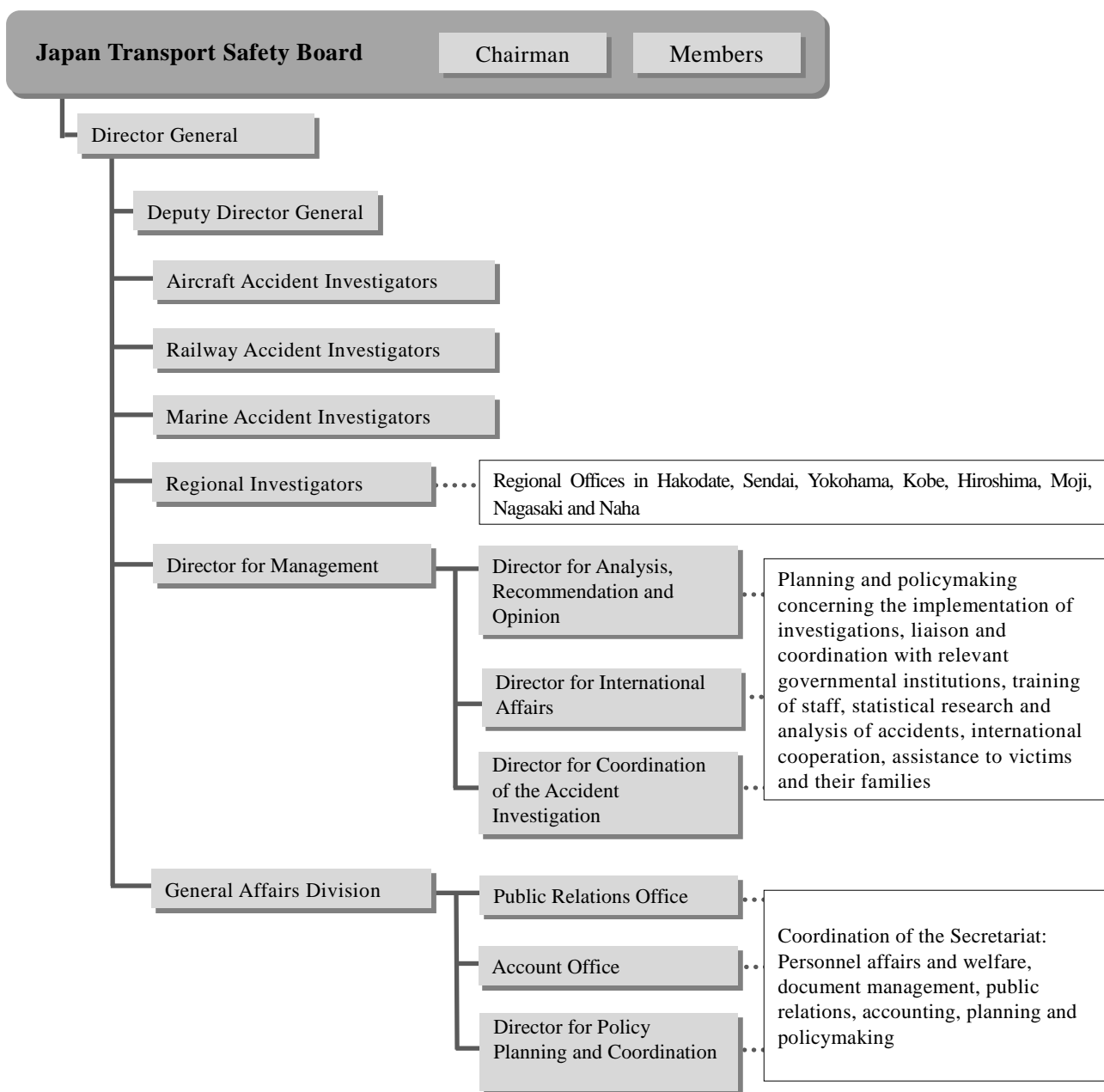
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1 Outline of the organization

The Japan Transport Safety Board consists of the Chairman, 12 members, and 178 secretariat staff (as of the end of March 2015). The staff in the secretariat consist of investigators who conduct investigations of aircraft, railway and marine accidents; the General Affairs Division that performs coordination-related jobs for the secretariat; and the Director for Management who is dedicated to the support and statistical analysis of accident investigations, and international cooperation. In addition, special support staff and local investigators are stationed at eight regional offices around the country (Hakodate, Sendai, Yokohama, Kobe, Hiroshima, Moji, Nagasaki and Naha). These local investigators investigate marine accidents (excluding serious ones) and support staff provide initial support for aircraft, railway and marine accidents.

Organization Chart



2 Deliberation items of Board and each Committee

When investigations of accidents have progressed and the facts, as well as the causes and factors of accidents, have become clear to a certain extent, accident investigators put these results together and prepare a draft investigation report. This draft is then deliberated in the Board or Committees. As indicated in the table below, matters related to extremely serious accidents are deliberated in the Board, and matters related to particularly serious accidents are deliberated in the General Committee, and so nearly all draft investigation reports are deliberated in committees set up for each transport mode (Aircraft, Railway, Marine and Marine Special Committees).

The Board is composed of eight full-time members, including the Chairman, and five part-time members, with its assemblies convened by the Chairman. The Committees are composed of members with expertise related to each Committee, and their meetings are convened by their own Committee Directors. Any matters shall be decided by a majority of the members present for both the Board and Committees, and for both of these, a meeting cannot be convened and a decision cannot be made unless more than half of the members are present.

The Board (Committee) meeting is also attended by the Director General, Deputy Director General, Director for Management, Investigators concerned from the Secretariat.

Deliberation items of Board and each Committee

Board and Committees	Matters to be deliberated
Board	<ul style="list-style-type: none"> • Matters that the Board considers as extremely serious accidents based on the scale of damage and other matters including social impact
General Committee	<ul style="list-style-type: none"> • Matters related to particularly serious accidents <ul style="list-style-type: none"> (i) An accident involving ten or more persons killed or missing (ii) An accident involving twenty or more persons killed, missing or seriously injured (With regard to aircraft accidents and a marine accidents, (i) and (ii) are limited to passenger transport services.) • Any other matters deemed to be necessary by the Board
Aircraft Committee	<ul style="list-style-type: none"> • Matters related to aircraft accidents and aircraft serious incidents (excluding the accidents to be handled by the General Committee)
Railway Committee	<ul style="list-style-type: none"> • Matters related to railway accidents and railway serious incidents (excluding the accidents to be handled by the General Committee)
Marine Committee	<ul style="list-style-type: none"> • Matters related to marine accidents and marine incidents as may be deemed serious by the Board (excluding the accidents to be handled by the General Committee and the Marine Special Committee)
Marine Special Committee	<ul style="list-style-type: none"> • Matters related to marine accidents and marine incidents (excluding the accidents to be handled by the General Committee and the Marine Committee)

3 Board Members

As of April 1, 2016

Kazuhiro Nakahashi, Chairman (Full-time), Director of Aircraft Committee

Kazuhiro Nakahashi was appointed as Chairman on February 27, 2016; in charge of the Aircraft Committee, the Railway Committee and the Marine Committee; specializes in Aerospace engineering and Computational fluid dynamics

Career summary: Doctor of Engineering, Graduate School of Engineering, The University of Tokyo

Former Professor for Graduate School of Engineering, Tohoku University

Former Vice President for Japan Aerospace Exploration Agency

Toshiyuki Ishikawa, Member (Full-time)

Toshiyuki Ishikawa was appointed as member on March 15, 2010, currently in the third term of office; in charge of the Aircraft Committee, the Railway Committee and the Marine Committee; specializes in legislation of administrative law and the others

Career summary: Doctor of Law, Graduate School of Law, Chuo University

Former Professor for Law School, Chuo University

Toru Miyashita, Member (Full-time), Deputy Director of Aircraft Committee

Toru Miyashita was appointed as member on February 27, 2016; in charge of the Aircraft Committee; specializes in Operation and Maintenance of Aircraft

Career summary: Graduated from Department of Aeronautics, Faculty of Engineering, The University of Tokyo

Former Executive Director for Association of Air Transport Engineering & Research

Sadao Tamura, Member (Full-time)

Sadao Tamura was appointed as member on December 6, 2010, currently in the second term of office; in charge of the Aircraft Committee; specializes in Flight Operations

Career summary: Former General Manager of Operations Support Office, Flight Operations Department, All Nippon Airways Co., Ltd.

Akira Matsumoto, Member (Full-time), Director of Railway Committee

Akira Matsumoto was appointed a member on October 1, 2007, currently in the third term of office; in charge of the Railway Committee; specializes in railway engineering and safety engineering

Career summary: Graduated from Department of Mechanical Engineering, Faculty of Engineering, Yokohama National University

Former Executive Researcher for Safety Technologies of New Urban Transportation Systems, National Traffic Safety & Environment Laboratory

Shigeru Yokoyama, Member (Full-time), Deputy Director of Railway Committee

Shigeru Yokoyama was appointed as member on December 6, 2013; in charge of the Railway Committee; specializes in electrical engineering and electronics

Career summary: Doctor of Engineering, Department of Electronics, Faculty of Engineering, The University of Tokyo
Former Professor for Department of Electrical and Electronic Engineering, Shizuoka University

Kuniaki Shoji, Member (Full-time), Director of Marine Committee

Kuniaki Shoji was appointed as member on October 1, 2011, currently in the second term of office; in charge of the Marine Committee and the Marine Special Committee; specializes in marine engineering and naval architecture

Career summary: Doctor of Engineering, Graduate School of Engineering, The University of Tokyo
Former professor, Faculty of Marine Technology, Tokyo University of Marine Science and Technology

Satoshi Kosuda, Member (Full-time), Deputy Director of Marine Committee

Satoshi Kosuda was appointed as member on October 1, 2014; in charge of the Marine Committee and the Marine Special Committee; specializes in maneuvering of ship

Career summary: Graduated from the Department of Navigation at Kobe University of Mercantile Marine
Former Investigator-General for Marine Accident of Japan Transport Safety Board

Keiji Tanaka, Member (Part-time)

Keiji Tanaka was appointed as member on February 27, 2013, currently in the second term of office; in charge of the Aircraft Committee; specializes in flight simulation and flight dynamics

Career summary: Doctor of Engineering, Department of Aeronautics, Faculty of Engineering, The University of Tokyo
Former Professor for Aerospace Engineering Course, Monozukuri Engineering Department, Tokyo Metropolitan College of Industrial Technology

Miwa Nakanishi, Member (Part-time)

Miwa Nakanishi was appointed as member on February 27, 2016; in charge of the Aircraft Committee; specializes in Ergonomics (Human factors)

Career summary: Doctor of Engineering, School of Science for Open and Environmental

Systems, Graduate School of Science and Technology, Keio University
Associate Professor for Department of Administration Engineering, Faculty
of Science and Technology, Keio University

Norio Tomii, Member (Part-time)

Norio Tomii was appointed as member on October 1, 2007, currently in the third term of office; in charge of the Railway Committee; specializes in railway operation planning and management

Career summary: Doctor of Informatics, Graduate School of Informatics, Kyoto University
Professor for Department of Computer Science, Faculty of Information and
Computer Science, Chiba Institute of Technology

Miyoshi Okamura, Member (Part-time)

Miyoshi Okamura was appointed as member on December 6, 2010; currently in the second term of office; in charge of the Railway Committee; specializes in structural engineering, earthquake engineering and maintenance management engineering (steel structural engineering)

Career Summary: Doctor of Engineering, Graduate School of Engineering, University of
Yamanashi
Associate Professor for Department of Research Interdisciplinary Graduate
School of Medicine and Engineering, University of Yamanashi

Mina Nemoto, Member (Part-time)

Mina Nemoto was appointed as member on October 1, 2008, currently in the third term of office; in charge of the Marine Committee and the Marine Special Committee; specializes in ergonomics (human factors)

Career summary: Doctor of Philosophy, Graduate School of Media and Governance, Keio
University
Senior Consultant, Marine Technical Group, Japan Marine Science Inc.

The chairman 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.

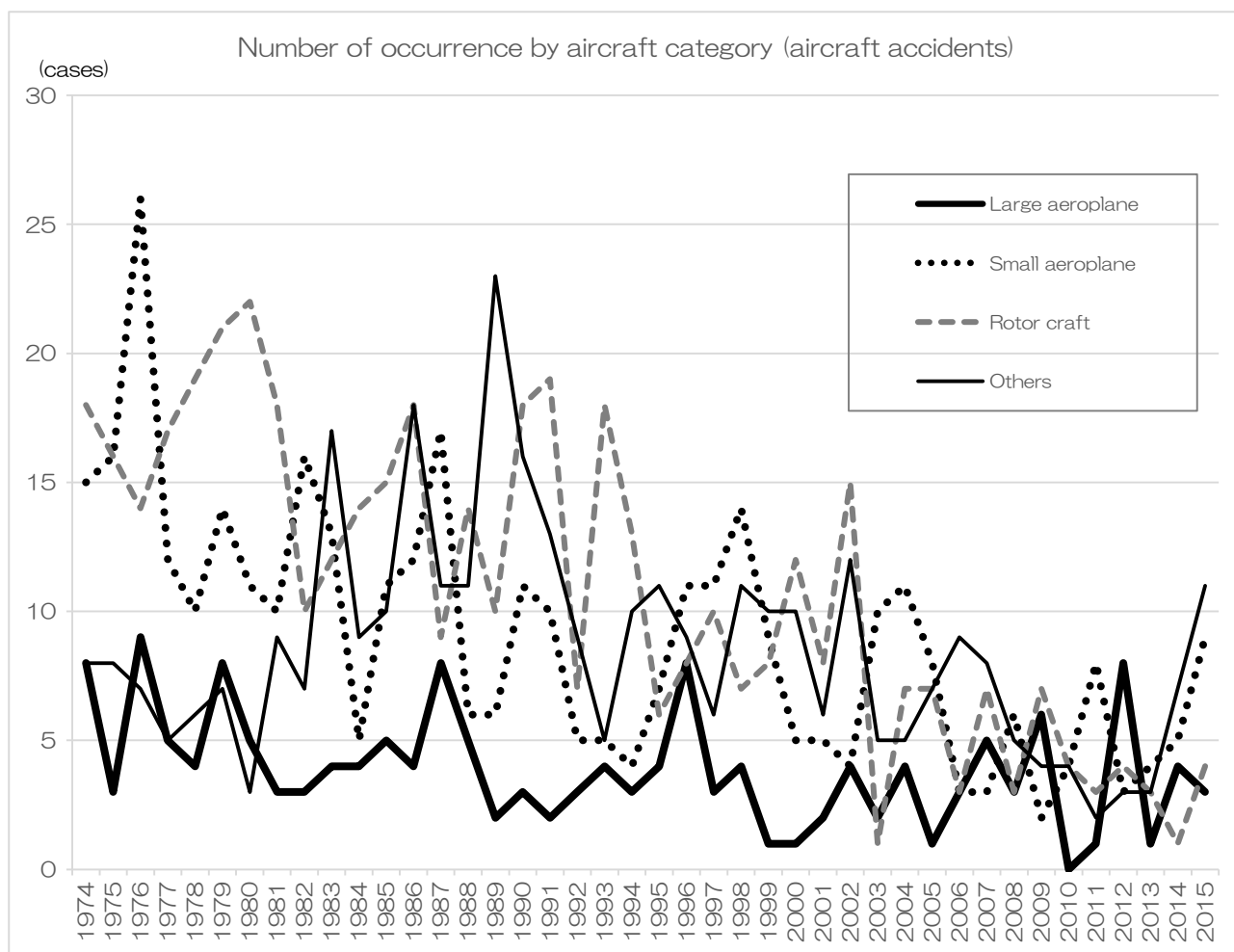
4 Number of occurrence by aircraft category (aircraft accidents)

(Cases)

Category Year of occurrence	Aircraft			Rotor craft		Glider	Airship	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

Category Year of occurrence	Aircraft			Rotor craft		Glider	Airship	Total
	Large aeroplane	Small aeroplane	Ultralight plane	Helicopter	Gyroplane			
2007	5	3	4	7	0	4	0	23
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
Total	163	377	161	426	24	197	2	1,350

(Note) 1. The figures include the cases handled by the Aircraft and Railway Accident Investigation Commission.
 2. Large aeroplanes are aircraft with a maximum take-off weight of more than 5,700kg.
 3. Small aeroplanes are aircraft with a maximum take-off weight of 5,700kg or less, excluding Ultralight planes.

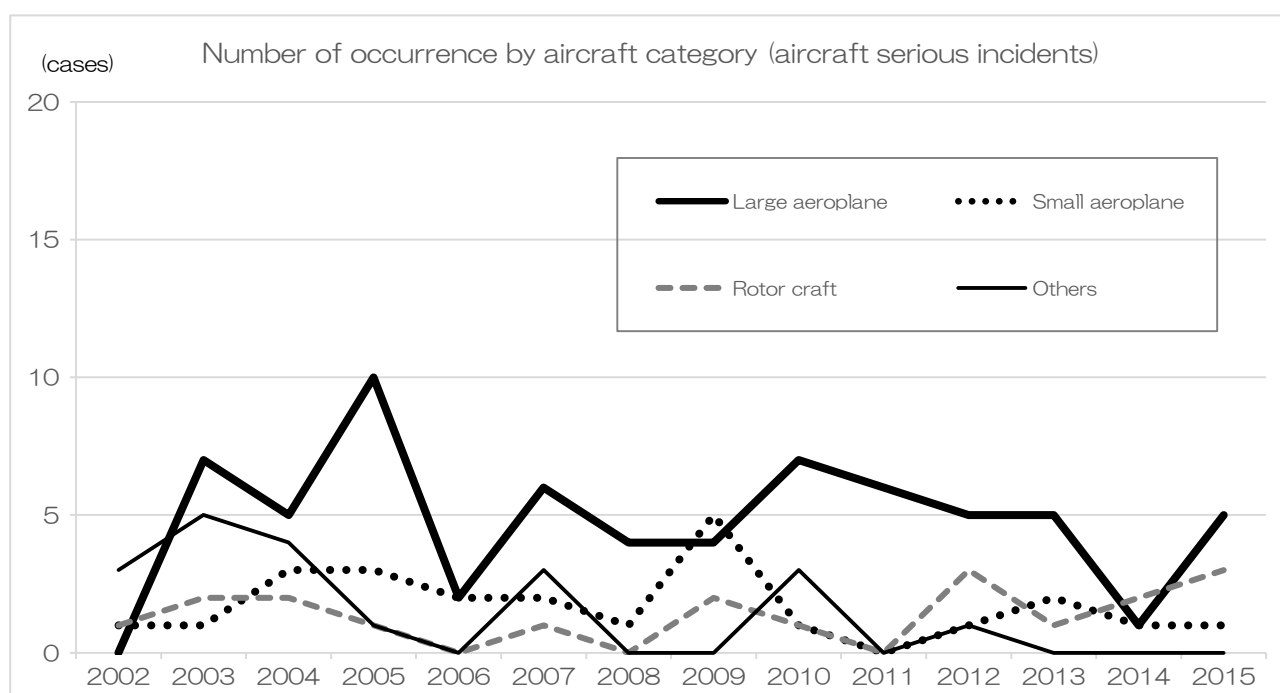


5 Number of occurrence by aircraft category (aircraft serious incidents)

(Cases)

Year of occurrence	Aircraft			Rotor craft		Glider	Airship	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	5	1	0	3	0	1	0	10
2013	5	2	0	1	0	0	0	8
2014	1	1	0	2	0	0	0	4
2015	5	1	0	3	0	0	0	9
Total	70	24	16	19	0	4	0	133

- (Note) 1. The figures include the cases handled by the Aircraft and Railway Accident Investigation Commission.
 2. Large aeroplanes are aircraft with a maximum take-off weight of more than 5,700kg.
 3. Small aeroplanes are aircraft with a maximum take-off weight of 5,700kg or less, excluding Ultralight planes.
 4. The number of cases for 2001 represents those that occurred from October onward.



6 Number of occurrence by type (railway accidents)

(Cases)

Year of occurrence \ Type	Railway							Tramway							Total
	Train collision	Train derailment	Train fire	Level crossing accident	Accident against road traffic	Other accidents with casualties	Heavy property loss without casualties	Vehicle collision	Vehicle derailment	Vehicle fire	Level crossing accident	Accident against road traffic	Other accidents with casualties	Heavy property loss without casualties	
2001	0	4	1	0	0	0	0	0	0	0	0	0	0	0	5
2002	1	14	1	2	0	1	1	0	0	0	0	0	0	0	20
2003	1	20	2	0	0	0	0	0	0	0	0	0	0	0	23
2004	0	18	0	1	0	0	0	0	1	0	0	0	0	0	20
2005	2	20	0	0	0	1	0	0	1	0	0	0	0	0	24
2006	1	13	0	1	0	0	0	1	0	0	0	0	0	0	16
2007	0	12	2	3	0	0	0	0	2	0	0	0	0	0	19
2008	0	7	2	2	0	1	1	0	0	0	0	0	0	0	13
2009	0	5	1	2	0	3	0	0	0	0	0	0	0	0	11
2010	0	6	0	0	0	1	0	0	0	0	0	2	0	0	9
2011	0	12	0	1	0	1	0	0	0	0	0	0	0	0	14
2012	0	13	2	0	0	2	0	0	2	0	0	1	0	0	20
2013	0	11	1	1	0	1	0	0	1	0	0	0	0	0	15
2014	1	9	0	4	0	0	0	0	0	0	0	0	0	0	14
2015	1	5	1	4	0	1	0	0	1	0	0	0	0	0	13
Total	7	169	13	21	0	12	2	1	8	0	0	3	0	0	236

- (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.

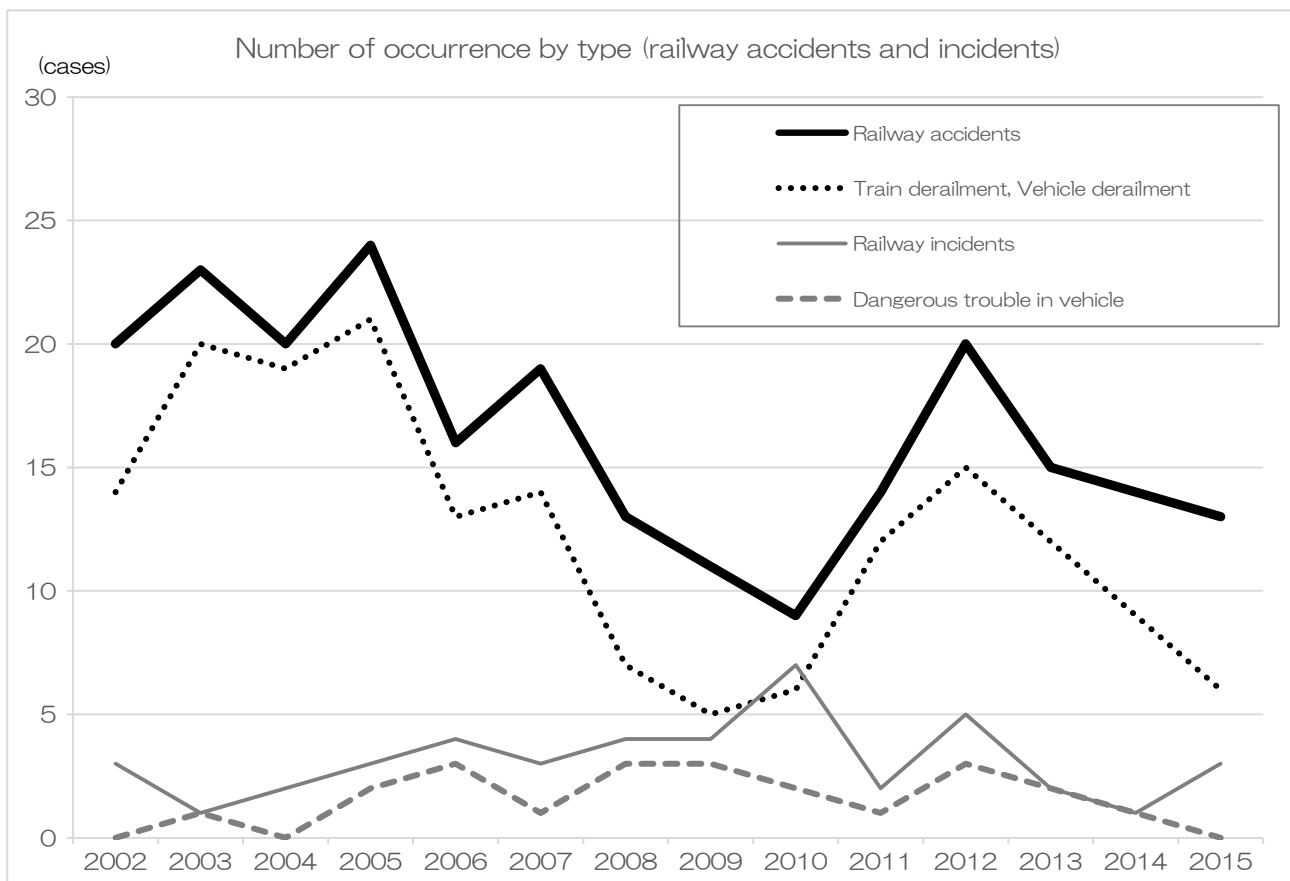
7 Number of occurrence by type (railway serious incidents)

(Cases)

Year of occurrence \ Type	Railway									Tramway							Total	
	Incorrect management of safety block	Incorrect indication of signal	Violating red signal	Main track overrun	Violating closure section for construction	Vehicle derailment	Dangerous damage in facilities	Dangerous trouble in vehicle	Heavy leakage of dangerous object	Others	Incorrect management of safety block	Violating red signal	Main track overrun	Dangerous damage in facilities	Dangerous trouble in vehicle	Heavy leakage of dangerous object		Others
2001	0	1	0	0	0	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	0	0	0	3
2003	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
2004	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2

Year of occurrence	Railway										Tramway						Total	
	Incorrect management of safety block	Incorrect indication of signal	Violating red signal	Main track overrun	Violating closure section for construction	Vehicle derailment	Dangerous damage in facilities	Dangerous trouble in vehicle	Heavy leakage of dangerous object	Others	Incorrect management of safety block	Violating red signal	Main track overrun	Dangerous damage in facilities	Dangerous trouble in vehicle	Heavy leakage of dangerous object		Others
2005	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	3
2006	0	0	0	0	0	0	0	3	0	1	0	0	0	0	0	0	0	4
2007	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	3
2008	0	0	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0	4
2009	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	4
2010	1	0	0	0	1	1	0	2	0	0	1	1	0	0	0	0	0	7
2011	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
2012	0	0	0	0	1	1	0	3	0	0	0	0	0	0	0	0	0	5
2013	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
2014	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
2015	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	3
Total	1	7	0	0	6	2	2	22	0	3	1	1	0	0	0	0	0	45

(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.



8 Number of accidents and incidents by area (marine accidents and incidents)

(Cases)

Year	Area	In Japanese waters			Outside Japanese waters	Total
		In ports specified by the Cabinet Order	Within 12 nautical miles	In lakes or rivers		
2007		0	3	0	0	3
2008		227	576	15	55	873
2009		341	1,065	34	82	1,522
2010		308	906	38	82	1,334
2011		238	781	28	79	1,126
2012		227	804	31	53	1,115
2013		215	763	35	69	1,082
2014		194	761	31	44	1,030
2015		167	627	40	33	867
Total		1,917	6,286	252	497	8,952

(Note) The above table shows the number of accidents and incidents into which the JTSC launched an investigation as of the end of February 2016 (including those carried over from the former Marine Accident Inquiry Agency).

9 Number of accidents and incidents by type (marine accidents and incidents)

(Cases)

Year	Type	Marine accident										Marine incident				Total	
		Collision	Contact	Grounding	Sinking	Flooding	Capsizing	Fire	Explosion	Facility damage	Fatality/Injury	Others	Loss of control	Stranded	Safety obstruction		Navigation 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	30	61	0	54	34	8	87	873
2009		325	174	431	16	19	58	42	3	38	217	2	105	33	0	59	1,522
2010		356	180	369	15	18	50	35	2	26	146	0	83	16	0	38	1,334
2011		282	145	264	12	18	57	32	1	23	142	1	103	10	1	35	1,126
2012		246	132	264	5	21	55	44	2	34	155	0	113	5	4	35	1,115
2013		265	144	210	10	25	49	33	2	38	163	2	106	7	3	25	1,082
2014		264	117	213	7	11	61	35	1	37	150	3	92	15	0	24	1,030
2015		235	95	188	5	10	59	38	3	18	117	0	80	4	4	11	867
Total		2,154	1,089	2,196	82	126	417	274	17	244	1,151	8	736	124	20	314	8,952

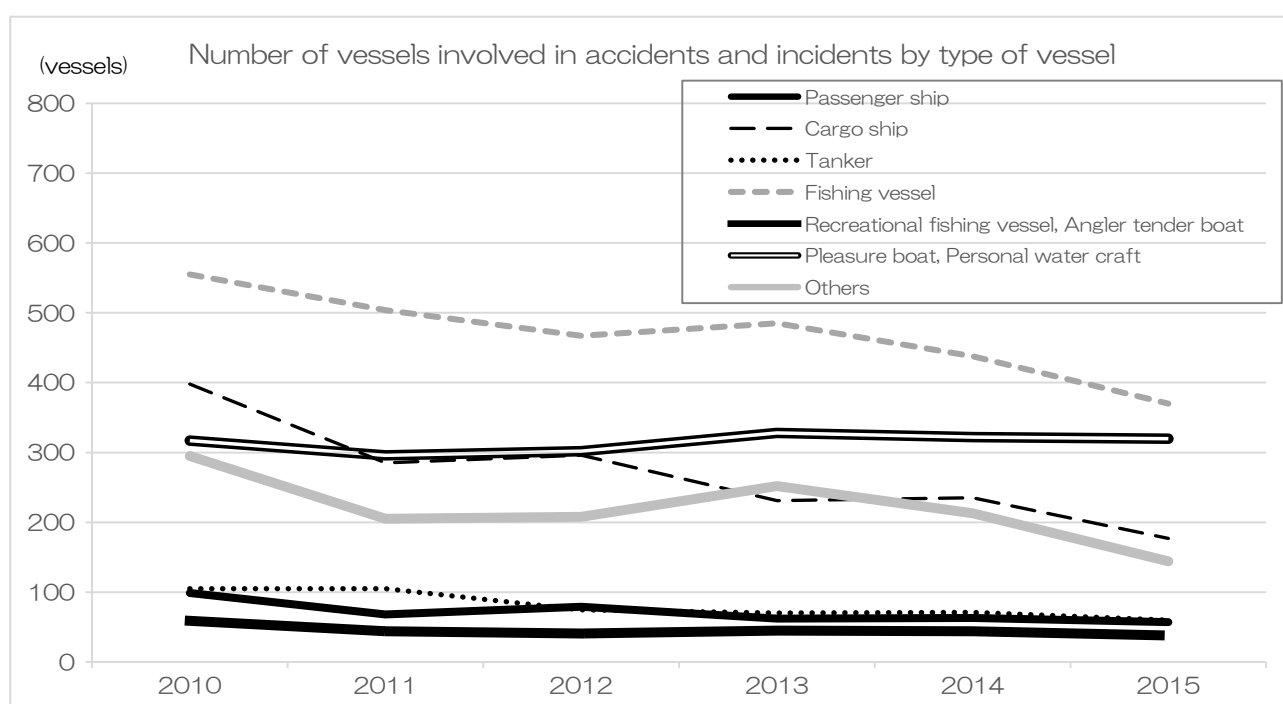
(Note) 1. The above table shows the number of accidents and incidents into which the JTSC launched an investigation as of the end of February 2016 (including those carried over from the former Marine Accident Inquiry Agency).
 2. The figures in the column "Casualty" are the number of cases involving death, death and injury, missing persons, or injury which is not a result from other types of accident.

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

(Vessels)

Type of Vessel \ Year	Passenger ship	Cargo ship	Tanker	Fishing vessel	Tug boat, push boat	Recreational fishing vessel	Angler tender boat	Work vessel	Barge, Lighter	Public-service ship	Pleasure boat	Personal water craft	Others	Total
2007	2	1	0	0	0	0	0	0	0	0	0	0	0	3
2008	55	318	55	307	98	28	6	27	60	11	125	31	7	1,128
2009	103	480	83	605	163	39	6	35	104	41	249	65	21	1,994
2010	99	398	105	555	123	53	6	48	82	25	251	66	17	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	100	41	4	37	72	24	264	64	19	1,473
2014	63	235	71	438	89	39	5	35	58	17	253	69	14	1,386
2015	57	177	60	370	52	31	7	23	43	11	270	50	15	1,166
Total	588	2,421	624	3,731	805	302	48	270	528	157	1,909	446	124	11,953

(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 February 2016 (including those carried over from the former Marine Accident Inquiry Agency).



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

(Vessels)

Year \ Gross tonnage	Gross tonnage											Total
	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	
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	830	46	86	145	87	38	26	29	17	17	65	1,386
2015	606	39	60	105	58	28	17	26	22	18	187	1,166
Total	6,219	468	1,077	1,550	738	287	200	266	169	142	837	11,953

(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 February 2016 (including those carried over from the former Marine Accident Inquiry Agency).

12 Number of vessels involved in accidents and incidents in 2015 by type of accident/incident and type of vessel (marine accidents and incidents)

(Vessels)

Type of accident/ incident \ Type of vessel	Marine accident											Marine incident				Total
	Collision	Contact	Grounding	Sinking	Flooding	Capsizing	Fire	Explosion	Facility damage	Fatality/Injury	Others	Loss of control	Stranded	Safety obstruction	Navigation obstruction	
Passenger ship	11	11	7	0	0	0	5	1	1	11	0	2	1	3	4	57
Cargo ship	84	21	43	0	1	0	7	0	6	7	0	7	1	0	0	177
Tanker	41	4	6	0	1	1	2	0	1	0	0	4	0	0	0	60
Fishing vessel	152	27	60	2	6	27	15	1	0	49	0	28	0	0	3	370
Tug boat, push boat	19	6	14	1	0	4	0	0	2	4	0	2	0	0	0	52
Recreational fishing vessel	18	3	3	0	0	0	1	0	1	3	0	1	0	0	1	31
Angler tender boat	1	0	5	0	0	0	0	0	0	1	0	0	0	0	0	7
Work vessel	9	4	3	2	0	0	1	0	0	3	0	1	0	0	0	23

Type of accident/ incident Type of vessel	Marine accident											Marine incident				Total
	Collision	Contact	Grounding	Sinking	Flooding	Capsizing	Fire	Explosion	Facility damage	Fatality/Injury	Others	Loss of control	Stranded	Safety obstruction	Navigation obstruction	
Barge, Lighter	18	5	10	1	0	2	0	0	3	3	0	1	0	0	0	43
Public-service ship	0	2	2	0	0	0	0	0	0	4	0	2	0	0	1	11
Pleasure boat	110	15	42	1	2	33	7	1	7	16	0	31	2	1	2	270
Personal water craft	20	3	1	0	0	0	0	0	0	25	0	1	0	0	0	50
Others	10	1	3	0	0	0	0	0	0	0	0	1	0	0	0	15
Total	493	102	199	7	10	67	38	3	21	126	0	81	4	4	11	1,166

- (Note) 1. The above table shows the number of vessels involved in accidents and incidents into which the JTSCB launched an investigation as of the end of February 2016.
2. The figures in the column "Fatality/Injury" are the number of cases involving death, death and injury, missing persons, or injury which is not a result from other types of accident.

~ Japan Transport Safety Board Annual Report 2016 ~

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