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Result of the Safety Measure for Navigation
During the Peak Season of Stownet-fishing in Bisan-Seto, JAPAN

1. Safety Measures were taken from 9th February to 31st August 2016.
 (205 days in total, including 30 'non-fishing days')

2. Result of navigation adjustment during Marine Traffic Safety Act

	2012	2013	2014	2015	2016
Entering Bisan-seto traffic route <u>on the day</u> after anchoring off Shodoshima	19	25	13	7	1(1)
Entering Bisan-seto traffic route <u>on the next day</u> after anchoring off Shodoshima	25	62	52	25	9(7)
Speed reduction	-	-	-	-	-
Adjustment off Misaki (temporary anchoring or time adjustment)	3	10	4	7	11(10)
Cancellation or delay of departure (East bound vessel)	41	54	47	44	57(38)
(West bound vessel)	3	6	6	17	2(2)
Alternative route (Kita-harima traffic lane via Ishima Channel, Mizushima ~ North of Bisan ~ South of Bisan ~ East of Bisan, Teshima)	1	3	5	5	2(2)
Adjustment other than above	-	2	0	2	1(1)
Total	59 Vessels 92 cases	97 vessels, 162 cases	79 vessels, 127 cases	70 vessels, 107 cases	61 vessels 83 cases

* Alternative route and Other adjustments are not included in the List of navigation adjustment

*() : Number of vessels which carried out navigation adjustment

3. Entering Mizushima port during the peak season (for large vessels over 200m in length)

	2012	2013	2014	2015	2016
Wada → Mizushima	114	145	152	186	192
Sekizaki → Mizushima	70	82	47	8	12
Other ports → Mizushima	19	16	24	13	6
Total	203 vessels	243 vessels	223 vessels	207 vessels	210 vessels

4. Departing from Mizushima port during the peak season (for large vessels over 200m in length)

	2012	2013	2014	2015	2016
Mizushima → Wada	87	114	112	132	107
Mizushima → Sekizaki	113	104	101	64	89
Mizushima → Other ports	16	13	19	14	14
Total	216 vessels	231 vessels	232 vessels	210 vessels	210 vessels

5. Obtaining information on stownet-fishing through pooling fax

(1) During the peak season, it was able to obtain the information on stownet-fishing from Bisan-seto Vessel Traffic Service Centre within 1 hour 45 minutes after the tidal current change.

(2) Length of elapsed time during the daytime

2012: 70.29% received information within 1 hour 45 minutes

2013: 82.91% received information within 1 hour 45 minutes

2014: 91.59% received information within 1 hour 45 minutes

2015: 92.21% received information within 1 hour 45 minutes

2016: **95.10%** received information within 1 hour 45 minutes

6. Placement of guard ships during the peak season when entering Bisan-seto traffic route
(for large vessels except for those regulated in Maritime Traffic Safety Act)

West bound vessel: **109** vessels

<2015: 121 vessels, 2014: 134 vessels, 2013: 81 vessels, 2012: 89 vessels>

East bound vessel: **72** vessels

<2015: 109 vessels, 2014: 102 vessels, 2013: 70 vessels, 2012: 77 vessels >

Total: **181** vessels

<2015: 230 vessels, 2014: 236 vessels, 2013: 151 vessels, 2012: 166 vessels >

(*Above data excludes those that have cancelled departure and anchored off-Shodoshima.)

7. Arrangement of escort boat prepared during fishing operation in the night-time.

(1) Required days and places

20th April until 31st August around Bisan-seto No.7 light buoys for vessels entering/departing from Mizushima port

(2) Number of escort boat

West bound vessel: **73** ships

<2015: 77 ships, 2014: 75 ships, 2013: 78 ships, 2012: 77 ships >

East bound vessels: **85** ships

<2015: 112 ships, 2014: 95 ships, 2013: 88 ships, 2012: 125 ships >

Total: **158** ships

<2015: 189 ships, 2014: 170 ships, 2013: 166 ships, 2012: 202 ships >

8. Arrangement of Buoy Tender and Buoy Layer

Arrangement : **0** vessel

<2015: 0 vessel, 2014: 1 vessel, 2013: 0 vessel, 2012: 0 vessel >

List of vessels that adjusted navigation due to stownet-fishing

	Date	Vessel	LOA	G/T	Draft	Pilotage district	Estimated time of entering traffic lane	Remarks		
1	7th Feb		299.99	107,054	10.13	Mizushima - Fukuyama	14:50	Adjusted time of departure	Headed to Fukuyama at 15:20 on 7th	Bisan North lane navigable water width 200m
2	11th Feb		230.00	48,772	8.70	Mizushima - Wada	09:20	Adjusted time of departure	Headed to Wada at 14:20 on 11th	Bisan East lane navigable water width 250m
3	11th Feb		230.00	48,772	8.70	Mizushima - Wada	15:00	Cancelled departure	Headed to Wada at 09:25 on 12th	Bisan East lane navigable water width 0m
4	11th Feb		333.00	159,840	15.60	Wada - Mizushima	09:40	Anchored off-Okado	Proceeded to traffic lane to Mizushima at 10:00 on 12th	Previous vessel cancelled departure
5	22nd Feb		333.00	159,938	10.80	Mizushima - Wada	13:20	Cancelled departure	Headed to Wada at 13:40 on 23rd	Bisan East lane navigable water width 200m
6	22nd Feb		291.80	91,971	12.35	Fukuyama - Wada	13:30	Shifted to anchorage Fukuyama	Proceeded to traffic lane to Wada at 12:55 on 23rd	Bisan East lane navigable water width 200m
7	24th Feb		228.99	43,715	7.50	Sakaide - Wada	15:25	Anchored off-Sakaide	Proceeded to traffic lane to Wada at 09:30 on 25th	Bisan East lane navigable water width 0m
8	24th Feb		186.03	25,355	7.50	Mizushima - Wada	16:30	Adjusted time of departure	Headed to Wada at 17:45 on 24th	Bisan East lane navigable water width 0m
9	25th Feb		224.98	40,937	10.80	Sakaide - Wada	15:30	Cancelled departure	Headed to Wada at 15:40 on 26th	Bisan East lane navigable water width 200m
10	4th Mar		234.98	50,625	7.76	Sakaide - Wada	09:25	Anchored off-Sakaide	Proceeded to traffic lane to Wada at 14:45 on 4th	Bisan East lane navigable water width 200m
11	4th Mar		234.98	50,625	7.76	Sakaide - Wada	14:45	Cancelled departure	Proceeded to traffic lane to Wada at 09:50 on 5th	Bisan East lane navigable water width 100m
12	4th Mar		181.16	20,992	9.35	Niihama - Wada	14:00	Adjusted time to enter off-Misaki	Proceeded to traffic lane to Wada at 18:10 on 4th	Bisan East lane navigable water width 100m
13	4th Mar		332.99	160,226	11.50	Mizushima - Wada	14:55	Cancelled departure	Headed to Wada at 11:10 on 6th	Bisan East lane navigable water width 100m
14	4th Mar		333.00	160,062	13.70	Wada - Mizushima	14:05	Anchored off-Okado	Proceeded to traffic lane to Mizushima at 12:10 on 6th	Previous vessel cancelled departure
15	8th Mar		199.91	40,089	8.39	Kawanoe - Wada	12:00	Adjusted time to enter off-Misaki	Proceeded to traffic lane to Wada at 16:00 on 8th	Bisan East lane navigable water width 180m
16	8th Mar		128.00	4,789	6.20	Fukuyama - Wada	12:05	Adjusted time to enter off-Misaki	Proceeded to traffic lane to Wada at 18:20 on 8th	Bisan East lane navigable water width 180m
17	8th Mar		330.00	160,062	11.06	Mizushima - Wada	13:00	Cancelled departure	Headed to Wada at 13:15 on 9th	Bisan East lane navigable water width 180m
18	8th Mar		228.19	42,432	8.20	Mizushima - Wada	13:15	Cancelled departure	Headed to Wada at 14:00 on 9th	Bisan East lane navigable water width 180m
19	8th Mar		333.00	155,930	13.20	Wada - Mizushima	13:05	Anchored off-Okado	Proceeded to traffic lane to Mizushima at 14:00 on 9th	Previous vessel cancelled departure
20	10th Mar		299.94	107,514	14.54	Wada - Fukuyama	08:25	Anchored off-Okado	Proceeded to traffic lane to Fukuyama at 13:15 on 10th	Bisan North lane navigable water width 210m
21	13th Mar		225.00	39,966	6.50	Mizushima - Wada	10:30	Adjusted time to departure	Headed to Wada at 15:05 on 13th	Bisan East lane navigable water width 0m
22	13th Mar		225.00	39,966	6.50	Mizushima - Wada	15:35	Cancelled departure	Headed to Wada at 10:05 on 14th	Bisan East lane navigable water width 250m
23	14th Mar		199.94	32,905	9.00	Mizushima - Wada	16:15	Adjusted time to departure	Headed to Wada at 18:15 on 14th	Bisan East lane navigable water width 0m
24	19th Mar		225.00	42,608	11.72	Kure - Sakaide	10:25	Anchored off-Misaki	Proceeded to traffic lane to Sakaide at 10:30 on 20th	Bisan South lane navigable water width 230m
25	20th Mar		335.00	162,858	10.62	Mizushima - Wada	11:30	Cancelled departure	Headed to Wada at 12:15 on 21st	Bisan East lane navigable water width 0m
26	20th Mar		188.00	20,929	8.30	Mizushima - Wada	12:25	Anchored off-Mizushima	Proceeded to traffic lane to Wada at 17:35 on 20th	Bisan East lane navigable water width 0m
27	21st Mar		335.00	162,858	10.62	Mizushima - Wada	13:15	Cancelled departure	Headed to Wada at 12:20 on 22nd	Bisan East lane navigable water width 200m
28	22nd Mar		225.48	48,104	9.00	Mizushima - Wada	12:25	Cancelled departure	Headed to Wada at 12:20 on 23rd	Bisan East lane navigable water width 250m
29	22nd Mar		335.00	162,858	10.62	Mizushima - Wada	13:20	Cancelled departure	Headed to Wada at 12:20 on 23rd	Bisan East lane navigable water width 250m
30	22nd Mar		339.50	159,414	13.70	Wada - Mizushima	12:55	Anchored off-Okado	Proceeded to traffic lane to Mizushima at 13:50 on 23rd	Previous vessel cancelled departure
31	23rd Mar		225.48	48,104	9.00	Mizushima - Wada	13:00	Cancelled departure	Headed to Wada at 14:10 on 24th	Bisan East lane navigable water width 100m
32	23rd Mar		335.00	162,858	10.62	Mizushima - Wada	13:15	Cancelled departure	Headed to Wada at 14:05 on 24th	Bisan East lane navigable water width 100m
33	23rd Mar		339.50	159,414	13.70	off-Okado - Mizushima	13:50	Cancelled entering	Proceeded to traffic lane to Mizushima at 14:55 on 24th	Previous vessel cancelled departure
34	24th Mar		335.00	162,858	10.62	Mizushima - Wada	15:05	Cancelled departure	Headed to Wada at 13:20 on 25th	Bisan East lane navigable water width 200m
35	24th Mar		225.48	48,104	9.00	Mizushima - Wada	14:50	Cancelled departure	Headed to Wada at 08:00 on 25th	Bisan East lane navigable water width 200m
36	24th Mar		228.99	43,024	10.80	Sakaide - Wada	14:55	Cancelled departure	Headed to Wada at 09:20 on 25th	Bisan East lane navigable water width 200m
37	24th Mar		339.50	159,414	13.70	off-Okado - Mizushima	14:55	Cancelled arrival	Proceeded to traffic lane to Mizushima at 08:20 on 25th	Previous vessel cancelled departure
38	25th Mar		335.00	162,858	10.62	Mizushima - Wada	14:20	Cancelled departure	Headed to Wada at 07:55 on 26th	Bisan East lane navigable water width 200m
39	26th Mar		177.50	19,993	9.30	Fukuyama - Wada	08:00	Anchored off-Misaki	Proceeded to traffic lane to Wada at 13:45 on 26th	Bisan East lane navigable water width 100m
40	26th Mar		335.00	162,858	10.62	Mizushima - Wada	08:45	Cancelled departure	Proceeded to traffic lane to Wada at 14:45 on 26th	Bisan East lane navigable water width 100m

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41	26th Mar		177.50	19,993	9.30	Fukuyama - Wada	13:45	Adjusted time to enter off-Misaki	Proceeded to traffic lane to Wada at 18:30 on 26th	Bisan East lane navigable water width 0m
42	26th Mar		335.00	162,858	10.62	Mizushima - Wada	14:45	Cancelled departure	Headed to Wada at 14:20 on 27th	Bisan East lane navigable water width 0m
43	29th Mar		182.98	30,655	8.49	Fukuyama - Wada	10:55	Adjusted time to enter off-Misaki	Proceeded to traffic lane to Wada at 15:15 on 29th	Bisan East lane navigable water width 150m
44	29th Mar		182.50	29,411	7.80	Mizushima - Wada	10:00	Anchored off-Mizushima	Proceeded to traffic lane to Wada at 16:30 on 29th	Bisan East lane navigable water width 150m
45	29th Mar		225.00	38,606	8.20	Sakaide - Wada	09:45	Anchored off-Sakaide	Proceeded to traffic lane to Wada at 15:40 on 29th	Bisan East lane navigable water width 150m
46	29th Mar		225.00	38,606	8.20	Sakaide - Wada	15:40	Cancelled departure	Proceeded to traffic lane to Wada at 10:35 on 30th	Bisan East lane navigable water width 200m
47	29th Mar		333.00	159,963	10.40	Mizushima - Wada	10:35	Adjusted time of departure	Headed to Wada at 15:10 on 29th	Bisan East lane navigable water width 150m
48	29th Mar		333.00	159,963	10.40	Mizushima - Wada	16:10	Cancelled departure	Headed to Wada at 08:45 on 31st	Bisan East lane navigable water width 200m
49	5th Apr		228.99	43,158	7.33	Iyomishima - Wada	10:45	Anchored off-Misaki	Proceeded to traffic lane to Wada at 11:30 on 6th	Bisan North lane navigable water width 200m
50	5th Apr		225.00	40,002	8.70	Mizushima - Wada	11:35	Cancelled departure	Headed to Wada at 12:00 on 6th	Bisan East lane navigable water width 200m
51	5th Apr		229.00	43,466	8.00	Mizushima - Wada	12:50	Cancelled departure	Headed to Wada at 11:50 on 6th	Bisan East lane navigable water width 200m
52	5th Apr		210.00	42,744	11.30	Sekizaki - Mizushima	13:00	Anchored off-Misaki	Proceeded to traffic lane to Mizushima at 14:05 on 6th	Previous vessel cancelled departure
53	12th Apr		199.88	36,324	9.51	Mizushima - Wada	16:30	Cancelled departure	Headed to Wada at 16:10 on 13th	Bisan East lane navigable water width 70m
54	12th Apr		191.45	17,751	8.00	Mizushima - Wada	15:50	Anchored off-Mizushima	Headed to Wada at 17:30 on 12th	Bisan East lane navigable water width 70m
55	19th Apr		189.94	29,989	7.39	Mizushima - Wada	11:20	Anchored off-Mizushima	Proceeded to traffic lane to Sekizaki at 11:55 on 20th	Bisan East lane navigable water width 100m
56	20th Apr		177.00	19,885	6.58	Fukuyama - Wada	18:00	Turned round	Proceeded to traffic lane to Wada at 19:30 on 20th	Bisan East lane navigable water width 50m
57	23rd Apr		188.50	29,829	9.30	Fukuyama - Wada	08:00	Shifted to anchorage Fukuyama	Proceeded to traffic lane to Wada at 12:40 on 23rd	Bisan East lane navigable water width 0m
58	23rd Apr		188.50	29,829	9.30	Fukuyama - Wada	12:40	Turned round	Headed to Wada at 07:10 on 24th	Bisan East lane navigable water width 150m
59	23rd Apr		169.37	17,019	5.60	Mizushima - Wada	13:30	Anchored off-Mizushima	Proceeded to traffic lane to Wada at 18:40 on 23rd	Bisan East lane navigable water width 150m
60	24th Apr		188.50	29,829	9.30	Fukuyama - Wada	08:40	Adjusted time of departure	Headed to Wada at 13:00 on 24th	Bisan East lane navigable water width 0m
61	25th Apr		254.62	58,135	7.30	Sakaide - Wada	09:25	Anchored off-Sakaide	Headed to Wada at 15:20 on 25th	Bisan East lane navigable water width 0m
62	25th Apr		254.62	58,135	7.30	Sakaide - Wada	15:50	Cancelled departure	Proceeded to traffic lane to Wada at 09:10 on 26th	Cancelled due to altered course with substantial angle
63	25th Apr		274.93	83,601	11.97	Fukuyama - Wada	13:40	Anchored off-Misaki	Proceeded to traffic lane to Wada at 14:20 on 26th	Cancelled due to altered course with substantial angle
64	26th Apr		254.62	58,135	7.30	Sakaide - Wada	09:10	Cancelled departure	Proceeded to traffic lane to Wada at 09:40 on 27th	Bisan East lane navigable water width 150m
65	5th May		299.94	104,735	14.60	Wada - Mizushima	12:10	Anchored off-Okado	Proceeded to traffic lane to Mizushima at 13:00 on 6th	Mizushima lane navigable water width 250m
66	5th May		332.95	159,477	14.42	Wada - Mizushima	12:40	Anchored off-Okado	Proceeded to traffic lane to Mizushima at 13:30 on 6th	Mizushima lane navigable water width 250m
67	5th May		288.93	90,085	10.30	Mizushima - Sekizaki	11:45	Cancelled departure	Headed to Sekizaki at 11:40 on 6th	Mizushima lane navigable water width 250m
68	21st May		181.00	22,634	6.30	Sakaide - Wada	18:40	Cancelled departure	Headed to Wada at 06:45 on 22nd	Bisan East lane navigable water width 90m
69	23rd May		333.00	159,909	10.93	Mizushima - Wada	08:15	Cancelled departure	Headed to Wada at 14:30 on 24th	Bisan East lane navigable water width 220m
70	3rd June		182.50	28,465	8.25	Mizushima - Wada	17:40	Anchored off-Mizushima	Headed to Oita at 11:10 on 4th	Bisan East lane navigable water width 140m
71	3rd June		189.99	31,753	9.12	Fukuyama - Wada	16:55	Adjusted time of departure	Anchored up to proceed to Wada at 21:20 on 3rd	Bisan East lane navigable water width 140m
72	14th June		169.40	18,084	6.20	Fukuyama - Wada	08:40	Shifted to anchorage Fukuyama	Proceeded to traffic lane to Wada at 13:40 on 14th	Bisan East lane navigable water width 180m
73	17th June		189.99	31,864	8.80	Fukuyama - Wada	16:20	Adjusted time to enter off-Misaki	Proceeded to traffic lane to Wada at 18:45 on 17th	Bisan East lane navigable water width 100m
74	23rd June		179.90	31,778	9.00	Mizushima - Wada	15:00	Adjusted time of departure	Headed to Wada at 18:50 on 23rd	Bisan East lane navigable water width 0m
75	5th July		229.00	43,466	7.35	Mizushima - Wada	14:45	Cancelled departure	Headed to Wada at 14:00 on 6th	Bisan East lane navigable water width 120m
76	7th July		333.00	160,116	10.50	Mizushima - Wada	09:25	Adjusted time of departure	Headed to Wada at 14:45 on 7th	Bisan East lane navigable water width 0m
77	25th July		183.17	29,289	9.80	Mizushima - Wada	10:40	Anchored off-Mizushima	Headed to Wada at 16:30 on 25th	Bisan East lane navigable water width 100m
78	25th July		188.00	20,608	8.30	Mizushima - Wada	10:55	Adjusted time of departure	Headed to Wada at 16:15 on 25th	Bisan East lane navigable water width 100m
79	25th July		254.62	58,135	8.16	Sakaide - Wada	11:50	Anchored off-Sakaide	Headed to Wada at 16:00 on 25th	Bisan East lane navigable water width 100m
80	31st July		274.93	83,601	15.23	Wada - Fukuyama	16:15	Anchored off-Okado	Proceeded to traffic lane to Fukuyama at 12:45 on 1st	Bisan East lane navigable water width 240m