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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 2017.
 (204 days in total, including 31 'non-fishing days')

2. Result of navigation adjustment during Marine Traffic Safety Act

	2013	2014	2015	2016	2017
Entering Bisan-seto traffic route <u>on the day</u> after anchoring off Shodoshima	25	13	7	1(1)	1(1)
Entering Bisan-seto traffic route <u>on the next day</u> after anchoring off Shodoshima	62	52	25	9(7)	2(2)
Speed reduction	-	-	-	-	-
Adjustment off Misaki (temporary anchoring or time adjustment)	10	4	7	11(10)	11(10)
Cancellation or delay of departure (East bound vessel)	54	47	44	57(38)	29(19)
(West bound vessel)	6	6	17	2(2)	5(5)
Alternative route (Kita-harima traffic lane via Ishima Channel, Mizushima ~ North of Bisan ~ South of Bisan ~ East of Bisan, Teshima)	3	5	5	2(2)	2(2)
Adjustment other than above	2	0	2	1(1)	0(0)
Total	97 vessels, 162 cases	79 vessels, 127 cases	70 vessels, 107 cases	61 vessels 83 cases	39 vessels 50 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)

	2013	2014	2015	2016	2017
Wada → Mizushima	145	152	186	192	187
Sekizaki → Mizushima	82	47	8	12	2
Other ports → Mizushima	16	24	13	6	10
Total	243 vessels	223 vessels	207 vessels	210 vessels	199 vessels

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

	2013	2014	2015	2016	2017
Mizushima → Wada	114	112	132	107	98
Mizushima → Sekizaki	104	101	64	89	80
Mizushima → Other ports	13	19	14	14	22
Total	231 vessels	232 vessels	210 vessels	210 vessels	200 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

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

2017: **95.05%** 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: **123** vessels

<2016: 109 vessels, 2015: 121 vessels, 2014: 134 vessels, 2013: 81 vessels>

East bound vessel: **61**vessels

<2016: 72 vessels, 2015: 109 vessels, 2014: 102 vessels, 2013: 70 vessels>

Total: **184** vessels

<2016: 181 vessels, 2015: 230 vessels, 2014: 236 vessels, 2013: 151 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: **88** vessels

<2016: 73 vessels, 2015: 77 vessels, 2014: 75 vessels, 2013: 78 vessels >

East bound vessel: **113** vessels

<2016: 85 vessels, 2015: 112 vessels, 2014: 95 vessels, 2013: 88 vessels >

Total: **201** ships

<2016: 158 vessels, 2015: 189 vessels, 2014: 170 vessels, 2013: 166 vessels >

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	16th Feb		234.98	50,617	8.17	Fukuyama - Wada	10:00	Anchored off - Misaki	Anchored up to proceed to Wada at 08:30 on 17th	Bisan East lane navigable water width 90m
2	16th Feb		189.99	31,848	7.53	Mizushima - Wada	10:00	Adjusted time of departure	Headed to Wada at 16:15 on 16th	Bisan East lane navigable water width 90m
3	16th Feb		189.99	31,848	7.53	Mizushima - Wada	16:45	Adjusted time of departure	Headed to Wada at 17:20 on 16th	Bisan East lane navigable water width 100m
4	22nd Feb		189.99	31,754	7.28	Mizushima - Wada	09:35	Anchored off - Mizushima	Anchored up to proceeded to Wada at 16:25 on 22nd	Bisan East lane navigable water width 150m
5	22nd Feb		333.00	155,930	10.75	Mizushima - Wada	10:05	Cancelled departure	Headed to Wada at 10:20 on 23rd	Bisan East lane navigable water width 150m
6	22nd Feb		224.98	41,963	7.80	Sakaide - Wada	09:50	Anchored off - Sakaide	Anchored up to proceeded to Wada at 15:05 on 22nd	Bisan East lane navigable water width 150m
7	22nd Feb		225.30	47,012	9.80	Wada - Mizushima	11:05	Anchored off - Okado	Proceeded to traffic lane to Mizushima at 11:50 on 23rd	Previous vessel cancelled departure
8	3rd Mar		147.20	14,162	7.20	Fukuyama - Wada	10:00	Adjusted time to enter off - Misaki	Proceeded to traffic lane to Wada at 15:20 on 3rd	Bisan East lane navigable water width 150m
9	3rd Mar		229.00	44,146	7.80	Sakaide - Wada	09:50	Anchored off - Sakaide	Proceeded to traffic lane to Wada at 15:50 on 3rd	Bisan East lane navigable water width 150m
10	3rd Mar		227.21	42,897	8.27	Sakaide - Wada	10:35	Anchored off - Sakaide	Proceeded to traffic lane to Wada at 16:05 on 3rd	Bisan East lane navigable water width 150m
11	25th Mar		190.00	31,593	8.92	Fukuyama - Wada	10:30	Adjusted time to enter off - Misaki	Proceeded to traffic lane to Wada at 16:45 on 25th	Bisan East lane navigable water width 150m
12	28th Mar		179.99	21,192	8.10	Fukuyama - Wada	08:00	Adjusted time to enter off - Misaki	Proceeded to traffic lane to Wada at 12:50 on 28th	Bisan East lane navigable water width 150m
13	28th Mar		254.62	58,135	7.46	Sakaide - Wada	08:35	Anchored off - Sakaide	Proceeded to traffic lane to Wada at 13:10 on 28th	Bisan East lane navigable water width 150m
14	28th Mar		179.99	21,192	8.10	Fukuyama - Wada	12:50	Adjusted time to enter off - Misaki	Proceeded to traffic lane to Wada at 15:30 on 28th	Bisan East lane navigable water width 100m
15	28th Mar		254.62	58,135	7.46	Sakaide - Wada	13:10	Cancelled departure	Proceeded to traffic lane to Wada at 08:15 on 29th	Bisan East lane navigable water width 100m
16	28th Mar		333.00	159,840	10.55	Mizushima - Wada	13:35	Cancelled departure	Headed to Wada at 13:30 on 29th	Bisan East lane navigable water width 100m
17	28th Mar		230.00	44,690	7.70	Sakaide - Wada	15:30	Anchored off - Sakaide	Proceeded to traffic lane to Wada at 08:40 on 29th	Bisan East lane navigable water width 100m
18	29th Mar		254.62	58,135	7.46	Sakaide - Wada	08:15	Cancelled departure	Proceeded to traffic lane to Wada at 08:50 on 30th	Bisan East lane navigable water width 250m
19	29th Mar		230.00	44,690	7.70	Sakaide - Wada	08:40	Adjusted time of departure	Proceeded to traffic lane to Wada at 13:40 on 29th	Bisan East lane navigable water width 250m
20	29th Mar		230.00	44,690	7.70	Sakaide - Wada	13:40	Cancelled departure	Proceeded to traffic lane to Wada at 14:15 on 30th	Bisan East lane navigable water width 220m
21	29th Mar		333.00	159,840	10.55	Mizushima - Wada	14:30	Cancelled departure	Headed to Wada at 08:25 on 30th	Bisan East lane navigable water width 220m
22	30th Mar		254.62	58,135	7.46	Sakaide - Wada	08:50	Adjusted time of departure	Proceeded to traffic lane to Wada at 14:30 on 30th	Bisan East lane navigable water width 250m
23	30th Mar		333.00	159,840	10.55	Mizushima - Wada	09:25	Adjusted time of departure	Headed to Wada at 13:45 on 30th	Bisan East lane navigable water width 250m
24	1st Apr		230.00	44,673	7.60	Mizushima - Wada	09:55	Adjusted time of departure	Headed to Wada at 15:10 on 1st	Bisan East lane navigable water width 150m
25	1st Apr		230.00	44,673	7.60	Mizushima - Wada	15:50	Cancelled departure	Headed to Wada at 10:00 on 2nd	Bisan East lane navigable water width 160m
26	7th Apr		332.98	159,872	11.00	Mizushima - Wada	10:40	Cancelled departure	Headed to Wada at 11:50 on 10th	Bisan East lane navigable water width 200m
27	7th Apr		339.50	159,579	10.80	Mizushima - Wada	10:55	Cancelled departure	Headed to Wada at 11:15 on 9th	Bisan East lane navigable water width 200m
28	7th Apr		250.00	63,965	10.90	Sekizaki - Mizushima	11:35	Adjusted time to enter off - Misaki	Headed to Sekizai at 10:50 on 12th	Bisan South lane navigable water width 150m
29	7th Apr		229.00	43,951	8.80	Sekizaki - Sakaide	11:20	Adjusted time to enter off - Misaki	Proceeded to traffic lane to Sakaide at 16:00 on 7th	Bisan South lane navigable water width 150m
30	14th Apr		169.37	17,019	5.29	Nihama - Wada	09:20	Adjusted time to enter off - Misaki	Proceeded to traffic lane to Wada at 13:35 on 14th	Bisan East lane navigable water width 150m
31	15th Apr		333.00	160,218	15.75	Wada - Mizushima	09:05	Anchored off - Okado	Proceeded to traffic lane to Mizushima at 10:00 on 16th	Bisan East lane navigable water width 200m
32	23rd Apr		228.99	43,066	7.14	Sakaide - Wada	10:15	Adjusted time of departure	Proceeded to traffic lane to Wada at 16:40 on 23rd	Bisan East lane navigable water width 200m
33	23rd Apr		228.99	43,066	7.14	Sakaide - Wada	16:40	Cancelled departure	Proceeded to traffic lane to Wada at 12:05 on 24th	Bisan East lane navigable water width 120m
34	30th Apr		127.67	5,266	7.16	Fukuyama - Wada	14:35	Adjusted time to enter off - Misaki	Proceeded to traffic lane to Wada at 18:50 on 30th	Bisan East lane navigable water width 100m
35	12th May		169.30	16,960	6.00	Onomichi - Wada	12:45	Adjusted time to enter off - Misaki	Proceeded to traffic lane to Wada at 19:00 on 12th	Bisan East lane navigable water width 150m
36	24th May		179.90	31,809	8.80	Mizushima - Wada	18:15	Adjusted time of departure	Headed to Wada at 20:00 on 24th	Bisan East lane navigable water width 50m
37	1st June		299.99	107,060	10.38	Mizushima - Sekizaki	12:45	Changed destination to Wada	Headed to Wada at 12:05 on 1st	Bisan North lane navigable water width 250m
38	1st June		224.94	39,737	7.60	Mizushima - Sekizaki	13:00	Changed destination to Wada	Headed to Wada at 12:00 on 1st	Bisan North lane navigable water width 250m
39	1st June		224.99	39,126	7.38	Sakaide - Sekizaki	12:25	Anchored off - Sakaide	Proceeded to traffic lane to Sekizaki at 07:05 on 2nd	Bisan North lane navigable water width 250m
40	2nd June		131.90	11,481	8.30	Wada - Fukuyama	14:30	Anchored off - Okado	Proceeded to traffic lane to Fukuyama at 18:15 on 2nd	Bisan North lane navigable water width 0m
41	2nd June		179.90	24,428	9.65	Off Naoshima - Hesaki	16:05	Adjusted time of departure	Proceeded to traffic lane to Hesaki at 19:40 on 2nd	Bisan North lane navigable water width 0m
42	2nd June		199.94	32,904	7.60	Mizushima - Hiroshima	17:00	Adjusted time of departure	Proceeded to traffic lane to Hiroshima at 18:45 on 2nd	Bisan North lane navigable water width 0m
43	7th June		179.97	23,175	8.80	Nihama - Wada	18:00	Adjusted time to enter off - Misaki	Proceeded to traffic lane to Wada at 23:25 on 7th	Bisan East lane navigable water width 100m
44	8th June		189.99	32,839	6.36	Tamashima - Wada	19:40	Cancelled departure	Headed to Wada at 12:10 on 9th	Bisan East lane navigable water width 100m
45	10th June		291.97	93,182	10.30	Fukuyama - Wada	07:30	Adjusted time to enter off - Misaki	Proceeded to traffic lane to Wada at 12:30 on 10th	Bisan East lane navigable water width 50m
46	26th June		228.90	43,473	7.50	Marugame - Wada	15:40	Anchored off - Sakaide	Proceeded to traffic lane to Wada at 09:05 on 27th	Bisan East lane navigable water width 200m
47	3rd July		228.94	43,473	7.50	Marugame - Wada	14:40	Anchored off - Sakaide	Proceeded to traffic lane to Wada at 08:30 on 4th	Bisan East lane navigable water width 150m
48	3rd July		179.98	25,546	7.50	Off Naoshima - Wada	15:00	Adjusted time of departure	Headed to Wada at 18:20 on 3rd	Bisan East lane navigable water width 150m