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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 3rd February to 31st August 2018.
 (210 days in total, including 29 'non-fishing days')

2. Result of navigation adjustment during Marine Traffic Safety Act

	2014	2015	2016	2017	2018
Entering Bisan-seto traffic route <u>on the day</u> after anchoring off Shodoshima	13	7	1(1)	1(1)	2(2)
Entering Bisan-seto traffic route <u>on the next day</u> after anchoring off Shodoshima	52	25	9(7)	2(2)	9(6)
Speed reduction	-	-	-	-	-
Adjustment off Misaki (temporary anchoring or time adjustment)	4	7	11(10)	11(10)	12(6)
Cancellation or delay of departure (East bound vessel)	47	44	57(38)	29(19)	44(20)
(West bound vessel)	6	17	2(2)	5(5)	0
Alternative route (Kita-harima traffic lane via Ishima Channel, Mizushima ~ North of Bisan ~ South of Bisan ~ East of Bisan, Teshima)	5	5	2(2)	2(2)	1(1)
Adjustment other than above	0	2	1(1)	0(0)	0(0)
Total	79 vessels, 127 cases	70 vessels, 107 cases	61 vessels 83 cases	39 vessels 50 cases	35 vessels, 68 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)

	2014	2015	2016	2017	2018
Wada → Mizushima	152	186	192	187	211
Sekizaki → Mizushima	47	8	12	2	10
Other ports → Mizushima	24	13	6	10	13
Total	223 vessels	207 vessels	210 vessels	199 vessels	234 vessels

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

	2014	2015	2016	2017	2018
Mizushima → Wada	112	132	107	98	130
Mizushima → Sekizaki	101	64	89	80	86
Mizushima → Other ports	19	14	14	22	21
Total	232 vessels	210 vessels	210 vessels	200 vessels	237 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 30 minutes after the tidal current change.

(2) Length of elapsed time during the daytime

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

2018: **90.09%** received information within 1 hour 30 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: **162** vessels

<2017: 123 vessels, 2016: 109 vessels, 2015: 121 vessels, 2014: 134 vessels>

East bound vessel: **63**vessels

<2017: 61 vessels, 2016: 72 vessels, 2015: 109 vessels, 2014: 102 vessels>

Total: **225** vessels

<2017: 184 vessels, 2016: 181 vessels, 2015: 230 vessels, 2014: 236 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: **87** vessels

<2017: 88 vessels, 2016: 73 vessels, 2015: 77 vessels, 2014: 75 vessels>

East bound vessel: **99** vessels

<2017: 113 vessels, 2016: 85 vessels, 2015: 112 vessels, 2014: 95 vessels>

Total: **186** ships

<2017: 201 vessels, 2016: 158 vessels, 2015: 189 vessels, 2014: 170 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	17th Feb		225.49	47,059	7.80	Mizushima - Wada	08:20	Adjusted time of departure	Headed to Wada at 13:10 on 18th	Bisan-seto East lane navigable water width 0m
2	17th Feb		333.00	159,828	13.54	Wada - Mizushima	09:55	Anchored off - Okado	Proceeded to traffic lane to Mizushima at 09:55 on 18th	Previous vessel cancelled departure
3	18th Feb		145.00	12,138	10.20	Niihama - Wada	14:30	Anchored off - Misaki	Headed to Wada at 18:00 on 18th	Bisan-seto East lane navigable water width 0m
4	20th Feb		187.80	26,992	9.10	Mizushima - Wada	10:40	Adjusted time of departure	Headed to Wada at 16:00 on 20th	Bisan-seto East lane navigable water width 100m
5	20th Feb		187.80	26,992	9.10	Mizushima - Wada	16:40	Adjusted time of departure	Headed to Wada at 17:00 on 20th	Bisan-seto East lane navigable water width 0m
6	21st Feb		333.00	159,828	11.52	Mizushima - Wada	10:10	Adjusted time of departure	Headed to Wada at 09:55 on 22nd	Bisan-seto East lane navigable water width 200m
7	22nd Feb		333.00	159,828	11.52	Mizushima - Wada	10:55	Adjusted time of departure	Headed to Wada at 08:20 on 24th	Bisan-seto East lane navigable water width 150m
8	26th Feb		179.99	28,844	9.90	Mizushima - Wada	10:20	Anchored off - Mizushima	Anchored up to proceed to Wada at 17:45 on 26th	Bisan-seto East lane navigable water width 0m
9	2nd Mar		291.98	92,756	16.00	Wada - Mizushima	08:05	Anchored off - Okado	Proceeded to traffic lane to Mizushima at 08:40 on 3rd	Bisan-seto East lane navigable water width 200m
10	2nd Mar		299.95	102,028	16.00	Wada - Fukuyama	08:20	Anchored off - Okado	Proceeded to traffic lane to Fukuyama at 12:55 on 2nd	Bisan-seto East lane navigable water width 200m
11	2nd Mar		299.99	107,060	15.84	Wada - Mizushima	08:40	Anchored off - Okado	Proceeded to traffic lane to Mizushima at 09:10 on 3rd	Bisan-seto East lane navigable water width 200m
12	2nd Mar		230.00	46,021	10.30	Wada - Sakaide	08:55	Anchored off - Okado	Proceeded to traffic lane to Sakaide at 12:40 on 2nd	Bisan-seto East lane navigable water width 200m
13	2nd Mar		333.00	159,943	10.90	Mizushima - Wada	14:55	Adjusted time of departure	Headed to Wada at 08:05 on 3rd	Bisan-seto East lane navigable water width 200m
14	3rd Mar		333.00	159,943	10.90	Mizushima - Wada	09:05	Adjusted time of departure	Headed to Wada at 13:10 on 3rd	Bisan-seto East lane navigable water width 230m
15	3rd Mar		333.00	159,943	10.90	Mizushima - Wada	14:10	Adjusted time of departure	Headed to Wada at 08:00 on 4th	Bisan-seto East lane navigable water width 100m
16	3rd Mar		230.00	46,021	10.60	Sakaide - Wada	13:40	Anchored off - Sakaide	Anchored up to proceed to Wada at 08:00 on 4th	Bisan-seto East lane navigable water width 100m
17	6th Mar		197.00	33,126	9.75	Fukuyama - Wada	09:00	Anchored off - Misaki	Anchored up to proceed to Wada at 14:45 on 6th	Bisan-seto East lane navigable water width 180m
18	6th Mar		339.50	159,793	10.40	Mizushima - Wada	10:00	Adjusted time of departure	Headed to Wada at 10:05 on 8th	Bisan-seto East lane navigable water width 180m
19	6th Mar		333.00	160,216	10.15	Mizushima - Wada	10:30	Adjusted time of departure	Headed to Wada at 10:20 on 8th	Bisan-seto East lane navigable water width 180m
20	6th Mar		197.00	33,126	9.75	Off Misaki - Wada	14:45	Anchored off - Misaki	Anchored up to proceed to Wada at 18:00 on 6th	Bisan-seto East lane navigable water width 100m
21	6th Mar		274.93	83,601	11.00	Fukuyama - Wada	15:20	Anchored off - Misaki	Anchored up to proceed to Wada at 09:00 on 7th	Bisan-seto East lane navigable water width 100m
22	7th Mar		234.94	52,957	7.50	Sakaide - Wada	10:25	Anchored off - Sakaide	Anchored up to proceed to Wada at 16:10 on 7th	Bisan-seto East lane navigable water width 0m
23	7th Mar		274.93	83,601	11.00	Off Misaki - Wada	11:00	Anchored off - Misaki	Anchored up to proceed to Wada at 15:20 on 7th	Bisan-seto East lane navigable water width 0m
24	7th Mar		274.93	83,601	11.00	Off Misaki - Wada	15:20	Anchored off - Misaki	Anchored up to proceed to Wada at 15:50 on 8th	Bisan-seto East lane navigable water width 190m
25	12th Apr		332.99	160,068	10.90	Mizushima - Wada	10:25	Adjusted time of departure	Headed to Wada at 10:40 on 13th	Bisan-seto East lane navigable water width 150m
26	17th Apr		228.99	43,093	8.00	Tsuneishi Anchorage - Wada	08:00	Anchored off - Misaki	Anchored up to proceed to Wada at 13:00 on 17th	Bisan-seto East lane navigable water width 200m
27	17th Apr		228.99	43,093	8.00	Off Misaki - Wada	13:00	Anchored off - Misaki	Anchored up to proceed to Wada at 8:00 on 18th	Bisan-seto East lane navigable water width 250m
28	17th Apr		229.00	47,006	7.61	Sakaide - Wada	13:25	Anchored off - Sakaide	Anchored up to proceed to Wada at 09:15 on 18th	Bisan-seto East lane navigable water width 250m
29	18th Apr		229.00	47,006	7.61	Sakaide - Wada	09:45	Adjusted time of departure	Anchored up to proceed to Wada at 13:35 on 18th	Bisan-seto East lane navigable water width 0m
30	18th Apr		229.00	47,006	7.61	Sakaide - Wada	14:05	Adjusted time of departure	Anchored up to proceed to Wada at 09:50 on 19th	Bisan-seto East lane navigable water width 100m
31	18th Apr		228.99	43,093	8.00	Off Misaki - Wada	09:05	Anchored off - Misaki	Proceeded to traffic lane to Sekizaki at 03:30 on 19th	Bisan-seto East lane navigable water width 0m
32	18th Apr		228.99	43,007	8.60	Mizushima - Wada	07:35	Adjusted time of departure	Headed to Wada at 13:20 on 18th	Bisan-seto East lane navigable water width 0m
33	18th Apr		225.00	42,608	11.38	Sakaide - Wada	15:45	Anchored off - Sakaide	Anchored up to proceed to Wada at 08:50 on 19th	Bisan-seto East lane navigable water width 100m
34	18th Apr		228.99	43,007	8.60	Mizushima - Wada	14:10	Adjusted time of departure	Headed to Wada at 09:10 on 19th	Bisan-seto East lane navigable water width 100m
35	18th Apr		225.13	47,791	10.60	Mizushima - Wada	15:40	Adjusted time of departure	Headed to Wada at 08:20 on 19th	Bisan-seto East lane navigable water width 100m
36	19th Apr		229.93	48,022	12.74	Wada - Sakaide	09:35	Anchored off - Okado	Anchored up to proceed to Sakaide at 08:20 on 20th	Bisan-seto East lane navigable water width 290m
37	19th Apr		225.13	47,791	10.60	Mizushima - Wada	09:00	Adjusted time of departure	Headed to Wada at 08:55 on 20th	Bisan-seto East lane no interval between stownets
38	19th Apr		228.99	43,007	8.60	Mizushima - Wada	10:00	Adjusted time of departure	Headed to Wada at 09:00 on 20th	Bisan-seto East lane no interval between stownets
39	19th Apr		228.99	43,093	8.00	Sakaide - Wada	10:20	Anchored off - Sakaide	Headed to Wada at 13:45 on 19th	Bisan-seto East lane no interval between stownets
40	19th Apr		225.00	42,608	11.38	Sakaide - Wada	09:20	Adjusted time of departure	Anchored up to proceed to Wada at 14:00 on 19th	Bisan-seto East lane no interval between stownets
41	19th Apr		225.00	42,608	11.38	Sakaide - Wada	14:30	Adjusted time of departure	Anchored up to proceed to Wada at 10:40 on 20th	Bisan-seto East lane navigable water width 250m
42	19th Apr		228.99	43,093	8.00	Sakaide - Wada	14:45	Adjusted time of departure	Anchored up to proceed to Wada at 10:55 on 20th	Bisan-seto East lane navigable water width 250m
43	20th Apr		225.13	47,791	10.60	Mizushima - Wada	09:35	Adjusted time of departure	Headed to Wada at 14:40 on 20th	Bisan-seto East lane navigable water width 0m
44	20th Apr		246.80	58,225	14.20	Wada - Mizushima	09:35	Anchored off - Okado	Anchored up to proceed to Mizushima at 09:00 on 21st	Previous vessel cancelled departure
45	20th Apr		228.99	43,007	8.60	Mizushima - Wada	09:50	Adjusted time of departure	Headed to Wada at 14:45 on 20th	Bisan-seto East lane navigable water width 0m
46	20th Apr		225.00	42,608	11.38	Sakaide - Wada	11:10	Adjusted time of departure	Anchored up to proceed to Wada at 15:15 on 20th	Bisan-seto East lane navigable water width 0m
47	20th Apr		228.99	43,093	8.00	Sakaide - Wada	11:25	Adjusted time of departure	Anchored up to proceed to Wada at 15:00 on 20th	Bisan-seto East lane navigable water width 0m

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		
48	28th Apr		226.10	48,542	7.90	Sakaide - Wada	11:20	Anchored off - Sakaide	Anchored up to proceed to Wada at 07:50 on 29th	Bisan-seto East lane navigable water width 0m
49	30th Apr		224.89	39,035	10.66	Fukuyama - Wada	07:30	Anchored off - Misaki	Anchored up to proceed to Wada at 05:30 on 1st	Bisan-seto East lane navigable water width 0m
50	30th Apr		229.00	44,306	7.80	Sakaide - Wada	14:50	Anchored off - Sakaide	Anchored up to proceed to Wada at 09:00 on 1st	Bisan-seto East lane navigable water width 0m
51	1st May		224.89	39,035	10.66	Off Misaki - Wada	07:30	Adjusted time of depature	Anchored up to proceed to Wada at 11:35 on 2nd	Bisan-seto East lane navigable water width 0m
52	1st May		229.00	44,306	7.80	Sakaide - Wada	09:30	Adjusted time of depature	Anchored up to proceed to Wada at 14:15 on 2nd	Bisan-seto East lane navigable water width 0m
53	24th Jun		333.00	160,216	10.30	Mizushima - Wada	16:20	Adjusted time of depature	Headed to Wada at 10:25 on 25th	Bisan-seto East lane
54	24th Jun		255.90	64,677	8.60	Mizushima - Wada	16:55	Adjusted time of depature	Headed to Wada at 09:15 on 25th	Bisan-seto East lane
55	25th Jun		333.00	160,216	10.30	Mizushima - Wada	11:25	Adjusted time of depature	Headed to Wada at 10:55 on 26th	Bisan-seto East lane
56	26th Jun		333.00	160,216	10.30	Mizushima - Wada	11:55	Adjusted time of depature	Headed to Wada at 11:35 on 28th	Bisan-seto East lane
57	28th Jun		333.00	160,216	10.30	Mizushima - Wada	12:35	Adjusted time of depature	Headed to Wada at 07:00 on 29th	Bisan-seto East lane
58	28th Jun		332.56	162,543	13.50	Wada - Mizushima	13:15	Anchored off - Okado	Anchored up to proceed to Mizushima at 06:00 on 29th	Previous vessel cancelled departure
59	29th Jun		333.00	160,216	10.30	Mizushima - Wada	08:00	Adjusted time of depature	Headed to Wada at 12:55 on 29th	Bisan-seto East lane
60	29th Jun		332.56	162,543	13.50	Off Okado - Mizushima	08:25	Adjusted time of depature	Anchored up to proceed to Mizushima at 11:20 on 29th	Previous vessel cancelled departure
61	29th Jun		333.00	160,216	10.30	Mizushima - Wada	13:55	Adjusted time of depature	Headed to Wada at 14:25 on 30th	Bisan-seto East lane
62	29th Jun		332.56	162,543	13.50	Off Okado - Mizushima	13:50	Adjusted time of depature	Anchored up to proceed to Mizushima at 12:30 on 30th	Previous vessel cancelled departure
63	29th Jun		169.37	17,019	5.75	Mizushima - Wada	13:05	Adjusted time of depature	Headed to Wada at 18:30 on 30th	Bisan-seto East lane navigable water width 0m
64	30th Jun		199.54	28,455	8.19	Mizushima - Wada	13:55	Anchored off - Mizushima	Anchored up to proceed to Mizushima at 18:30 on 30th	Bisan-seto East lane navigable water width 0m
65	30th Jun		333.00	160,216	10.30	Mizushima - Wada	15:25	Adjusted time of depature	Headed to Wada at 13:20 on 1st	Bisan-seto East lane
66	30th Jun		332.56	162,543	13.50	Off Okado - Mizushima	15:00	Adjusted time of depature	Anchored up to proceed to Mizushima at 12:15 on 1st	Previous vessel cancelled departure
67	14th Jul		169.37	17,019	4.20	Onomichi - Wada	19:10	Anchored off Misaki	Anchored up to proceed to Wada at 21:30 on 14th	Bisan-seto East lane navigable water width 0m