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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 2<sup>nd</sup> February to 31<sup>st</sup> August 2019.  
 (211 days in total, including 29 'non-fishing days')

2. Result of navigation adjustment during Marine Traffic Safety Act

	2015	2016	2017	2018	2019
Entering Bisan-seto traffic route <u>on the day</u> after anchoring off Shodoshima	7	1(1)	1(1)	2(2)	1(1)
Entering Bisan-seto traffic route <u>on the next day</u> after anchoring off Shodoshima	25	9(7)	2(2)	9(6)	15(15)
Speed reduction	-	-	-	-	-
Adjustment off Misaki (temporary anchoring or time adjustment)	7	11(10)	11(10)	12(6)	7(7)
Cancellation or delay of departure (East bound vessel)	44	57(38)	29(19)	44(20)	39(31)
(West bound vessel)	17	2(2)	5(5)	0	0
Alternative route (Kita-harima traffic lane via Ishima Channel, Mizushima ~ North of Bisan ~ South of Bisan ~ East of Bisan, Teshima)	5	2(2)	2(2)	1(1)	0
Adjustment other than above	2	1(1)	0(0)	0(0)	0
<b>Total</b>	70 vessels, 107 cases	61 vessels, 83 cases	39 vessels, 50 cases	35 vessels, 68 cases	54 vessels, 62 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)

	2015	2016	2017	2018	2019
Wada → Mizushima	186	192	187	211	208
Sekizaki → Mizushima	8	12	2	10	1
Other ports → Mizushima	13	6	10	13	8
<b>Total</b>	207 vessels	210 vessels	199 vessels	234 vessels	217 vessels

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

	2015	2016	2017	2018	2019
Mizushima → Wada	132	107	98	130	125
Mizushima → Sekizaki	64	89	80	86	80
Mizushima → Other ports	14	14	22	21	19
<b>Total</b>	210 vessels	210 vessels	200 vessels	237 vessels	224 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

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  
 2019: **93.80%** 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: **147** vessels

<2018: 162 vessels, 2017: 123 vessels, 2016: 109 vessels, 2015: 121 vessels>

East bound vessel: **75**vessels

<2018: 63 vessels, 2017: 61 vessels, 2016: 72 vessels, 2015: 109 vessels>

Total: **222** vessels

< 2018: 225 vessels, 2017: 184 vessels, 2016: 181 vessels, 2015: 230 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

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

(2) Number of escort boat

West bound vessel: **76** vessels

<2018: 87 vessels, 2017: 88 vessels, 2016: 73 vessels, 2015: 77 vessels>

East bound vessel: **92** vessels

<2018: 99 vessels, 2017: 113 vessels, 2016: 85 vessels, 2015: 112 vessels>

Total: **168** ships

<2018: 186 vessels, 2017: 201 vessels, 2016: 158 vessels, 2015: 189 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	10th Feb		245.00	64,642	8.23	Fukuyama - Wada	09:00	Anchored off - Misaki	Anchored up to proceed to Wada at 15:10 on 10th	Bisan-seto South lane navigable water width 200m
2	17th Feb		226.10	45,842	8.10	Mizushima - Wada	11:30	Adjusted time of departure	Headed to Wada at 11:30 on 18th	Bisan-seto East lane navigable water width 250m
3	18th Feb		199.99	38,203	10.84	Wada - Mizushima	11:40	Anchored off - Okado	Proceeded to traffic lane to Mizushima at 08:15 on 19th	Bisan-seto East lane navigable water width 0m
4	18th Feb		189.99	31,872	11.70	Wada - Hibi	11:50	Anchored off - Okado	Proceeded to traffic lane to Hibi at 05:15 on 19th	Bisan-seto East lane navigable water width 0m
5	18th Feb		225.16	47,342	9.30	Wada - Sakaide	12:20	Anchored off - Okado	Proceeded to traffic lane to Sakaide at 08:25 on 19th	Bisan-seto East lane navigable water width 0m
6	18th Feb		226.10	45,842	8.10	Mizushima - Wada	12:10	Adjusted time of departure	Headed to Wada at 12:35 on 19th	Bisan-seto East lane navigable water width 200m
7	19th Feb		333.00	159,939	10.91	Mizushima - Wada	13:30	Adjusted time of departure	Headed to Wada at 13:35 on 20th	Bisan-seto East lane navigable water width 180m
8	19th Feb		226.10	45,842	8.10	Mizushima - Wada	13:15	Adjusted time of departure	Headed to Wada at 13:25 on 20th	Bisan-seto East lane navigable water width 180m
9	19th Feb		255.22	58,107	8.28	Sakaide - Wada	14:35	Anchored off - Sakaide	Anchored up to proceed to Wada at 08:45 on 20th	Bisan-seto East lane navigable water width 180m
10	20th Feb		189.99	31,920	9.31	Hesaki - Hibi	08:40	Anchored off - Misaki	Anchored up to proceed to Hibi at 15:15 on 20th	Bisan-seto South lane no interval between stownets
11	21st Feb		225.00	41,342	7.14	Mizushima - Wada	14:40	Adjusted time of departure	Headed to Wada at 08:15 on 22nd	Bisan-seto East lane navigable water width 190m
12	24th Feb		246.80	58,225	10.11	Mizushima - Wada	11:25	Adjusted time of departure	Headed to Wada at 10:05 on 25th	Bisan-seto East lane navigable water width 250m
13	25th Feb		246.80	58,225	10.11	Mizushima - Wada	10:55	Adjusted time of departure	Headed to Wada at 11:35 on 26th	Bisan-seto East lane navigable water width 0m
14	26th Feb		299.92	106,817	15.55	Wada - Mizushima	12:20	Anchored off - Okado	Proceeded to traffic lane to Mizushima at 13:40 on 27th	Bisan-seto East lane navigable water width 250m
15	26th Feb		288.00	122,361	11.17	Wada - Mizushima	11:50	Anchored off - Okado	Proceeded to traffic lane to Mizushima at 12:55 on 27th	Bisan-seto East lane navigable water width 250m
16	26th Feb		225.12	48,022	9.20	Wada - Mizushima	12:05	Anchored off - Okado	Proceeded to traffic lane to Mizushima at 13:25 on 27th	Bisan-seto East lane navigable water width 250m
17	10th Mar		333.00	159,909	11.15	Mizushima - Wada	09:00	Adjusted time of departure	Headed to Wada at 14:35 on 11th	Bisan-seto East lane navigable water width 150m
18	10th Mar		333.00	160,596	10.20	Mizushima - Wada	10:00	Adjusted time of departure	Headed to Wada at 09:25 on 11th	Bisan-seto East lane navigable water width 150m
19	12th Mar		224.98	41,963	7.79	Sakaide - Wada	15:55	Anchored off - Sakaide	Anchored up to proceed to Wada at 10:00 on 13th	Bisan-seto East lane navigable water width 200m
20	17th Mar		399.98	217,612	10.10	Off Misaki - Wada	10:40	Anchored off - Misaki	Anchored up to proceed to Wada at 10:25 on 18th	Bisan-seto East lane navigable water width 370m
21	21st Mar		333.00	157,961	10.30	Mizushima - Wada	13:25	Adjusted time of departure	Headed to Wada at 08:00 on 22nd	Bisan-seto East lane navigable water width 200m
22	21st Mar		249.94	55,281	11.92	Sakaide - Wada	15:15	Anchored off - Sakaide	Anchored up to proceed to Wada at 08:30 on 22nd	Bisan-seto East lane navigable water width 200m
23	4th Apr		249.99	65,830	12.90	Wada - Mizushima	07:20	Anchored off - Okado	Anchored up to proceed to Mizushima at 07:20 on 5th	Bisan-seto East lane navigable water width 150m
24	6th Apr		333.00	160,231	12.80	Wada - Mizushima	14:30	Anchored off - Okado	Anchored up to proceed to Mizushima at 06:15 on 7th	Previous vessel cancelled departure
25	6th Apr		188.50	29,753	6.98	Niihama Off Anchorage - Wada	12:35	Anchored off - Misaki	Anchored up to proceed to Wada at 18:30 on 6th	Bisan-seto East lane navigable water width 110m
26	6th Apr		226.05	48,963	7.90	Mizushima - Wada	14:30	Adjusted time of departure	Headed to Wada at 07:15 on 7th	Bisan-seto East lane navigable water width 110m
27	7th Apr		255.22	58,107	7.41	Sakaide - Wada	09:30	Anchored off - Sakaide	Anchored up to proceed to Wada at 13:30 on 7th	Bisan-seto East lane navigable water width 200m
28	7th Apr		226.05	48,963	7.90	Mizushima - Wada	07:55	Adjusted time of departure	Headed to Wada at 13:30 on 7th	Bisan-seto East lane navigable water width 200m
29	7th Apr		333.00	160,231	12.80	Off Okado - Mizushima	08:15	Anchored off - Okado	Anchored up to proceed to Mizushima at 12:30 on 7th	Previous vessel cancelled departure
30	9th Apr		333.00	160,231	10.00	Mizushima - Wada	09:35	Adjusted time of departure	Headed to Wada at 14:05 on 9th	Bisan-seto East lane navigable water width 200m
31	9th Apr		228.00	42,010	12.50	Wada - Mizushima	09:30	Anchored off - Okado	Anchored up to proceed to Mizushima at 13:45 on 9th	Previous vessel cancelled departure
33	9th Apr		333.00	160,231	10.00	Mizushima - Wada	15:05	Adjusted time of departure	Headed to Wada at 15:15 on 10th	Bisan-seto East lane navigable water width 0m
32	9th Apr		228.00	42,010	12.50	Off Okado - Mizushima	14:45	Anchored off - Okado	Anchored up to proceed to Mizushima at 08:55 on 11th	Previous vessel cancelled departure
34	16th Apr		183.06	29,267	8.90	Mizushima - Wada	10:55	Anchored off - Mizushima	Anchored up to proceed to Wada at 16:25 on 16th	Bisan-seto East lane navigable water width 100m
35	17th Apr		228.99	43,008	11.90	Wada - Mizushima	11:00	Anchored off - Okado	Anchored up to proceed to Mizushima at 05:00 on 18th	Bisan-seto East lane navigable water width 0m
36	17th Apr		187.80	26,992	11.30	Wada - Mizushima	13:00	Anchored off - Okado	Anchored up to proceed to Mizushima at 05:00 on 18th	Bisan-seto East lane navigable water width 0m
39	23rd Apr		228.99	43,008	8.59	Mizushima - Wada	16:20	Adjusted time of departure	Headed to Wada at 14:40 on 24th	Bisan-seto East lane navigable water width 190m
37	23rd Apr		199.99	34,578	9.22	Wada - Mizushima	23:20	Adjusted time of entry	Anchored up to proceed to Mizushima at 10:00 on 24th	Previous vessel cancelled departure
38	23rd Apr		180.00	24,205	5.50	Fukuyama - Wada	14:00	Anchored off - Misaki	Headed to Wada at 17:55 on 23rd	Bisan-seto East lane navigable water width 190m
41	4th May		333.00	159,963	10.20	Mizushima - Wada	12:30	Adjusted time of departure	Headed to Wada at 12:05 on 5th	Bisan-seto East lane navigable water width 0m
40	4th May		225.13	47,347	11.35	Wada - Mizushima	12:00	Anchored off - Okado	Anchored up to proceed to Mizushima at 10:15 on 5th	Previous vessel cancelled departure
42	4th May		225.27	47,173	8.10	Sakaide - Wada	08:25	Anchored off - Sakaide	Anchored up to proceed to Wada at 06:45 on 5th	Bisan-seto East lane navigable water width 200m
43	19th Jun		255.22	58,107	8.55	Sakaide - Wada	09:25	Anchored off - Sakaide	Anchored up to proceed to Wada at 13:00 on 19th	Bisan-seto East lane navigable water width 0m
44	19th Jun		255.22	58,107	8.55	Sakaide - Wada	13:25	Anchored off - Sakaide	Anchored up to proceed to Wada at 09:35 on 20th	Bisan-seto East lane navigable water width 150m
45	19th Jun		199.94	29,317	8.90	Hiroshima - Kakogawa	22:40	Adjusted time of entry - off Misaki	Headed to Kakogawa at 02:00 on 20th	Bisan-seto East lane navigable water width 0m
46	20th Jun		199.95	35,794	8.80	Mizushima - Wada	20:30	Adjusted time of departure	Headed to Wada at 04:00 on 21st	Bisan-seto East lane navigable water width 0m
47	21st Jun		229.00	46,982	7.90	Sakaide - Wada	09:25	Anchored off - Sakaide	Anchored up to proceed to Wada at 14:00 on 21st	Bisan-seto East lane navigable water width 0m
48	21st Jun		333.00	159,943	10.50	Mizushima - Wada	09:40	Adjusted time of departure	Headed to Wada at 09:15 on 22nd	Bisan-seto East lane navigable water width 0m
49	22nd Jun		333.00	159,943	10.50	Mizushima - Wada	09:15	Adjusted time of departure	Headed to Wada at 09:45 on 23rd	Bisan-seto East lane navigable water width 100m
50	22nd Jun		246.80	66,082	14.60	Wada - Mizushima	9:20	Anchored off - Okado	Anchored up to proceed to Mizushima at 07:10 on 26th	Previous vessel cancelled departure
51	28th Jun		246.80	66,082	8.50	Mizushima - Wada	09:25	Adjusted time of departure	Headed to Wada at 14:10 on 28th	Bisan-seto East lane navigable water width 200m

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		
52	28th Jun		229.90	47,236	7.80	Sakaide - Wada	14:40	Anchored off - Sakaide	Headed to Wada at 10:35 on 29th	Bisan-seto East lane no interval between stownets
53	28th Jun		179.99	29,516	8.30	Mizushima - Wada	17:10	Adjusted time of departure	Headed to Wada at 19:05 on 28th	Bisan-seto East lane no interval between stownets
54	2nd Jul		224.98	41,963	7.90	Sakaide - Wada	07:55	Anchored off - Sakaide	Anchored up to proceed to Wada at 11:10 on 2nd	Bisan-seto East lane navigable water width 180m
55	2nd Jul		199.98	35,832	6.60	Mizushima - Wada	19:20	Adjusted time of departure	Headed to Wada at 07:35 on 3rd	Bisan-seto East lane navigable water width 100m
56	3rd Jul		199.98	35,832	6.60	Mizushima - Wada	08:05	Adjusted time of departure	Headed to Wada at 11:55 on 3rd	Bisan-seto East lane navigable water width 100m
57	13th Jul		224.94	39,737	8.14	Sakaide - Wada	16:25	Anchored off - Sakaide	Anchored up to proceed to Wada at 09:30 on 14th	Bisan-seto East lane navigable water width 150m
58	13th Jul		169.37	17,027	6.23	Sakaide - Wada	19:15	Adjusted time of departure	Headed to Wada at 18:45 on 14th	Bisan-seto East lane navigable water width 150m
59	16th Jul		199.98	36,882	8.00	Mizushima - Wada	18:30	Adjusted time of departure	Headed to Wada at 19:40 on 16th	Bisan-seto East lane navigable water width 190m
60	16th Jul		179.97	21,520	5.20	Mizushima - Wada	07:15	Anchored off - Mizushima	Anchored up to proceed to Wada at 18:15 on 16th	Bisan-seto East lane navigable water width 0m
61	16th Jul		169.37	17,019	7.00	Tsuneishi Anchorage - Wada	13:00	Anchored off - Misaki	Anchored up to proceed to Wada at 17:00 on 16th	Bisan-seto East lane navigable water width 0m
62	16th Jul		339.50	159,632	11.15	Mizushima - Wada	12:05	Adjusted time of departure	Headed to Wada at 06:55 on 17th	Bisan-seto East lane navigable water width 0m
63	16th Jul		225.13	48,060	11.70	Wada - Mizushima	11:30	Anchored off - Okado	Anchored up to proceed to Mizushima at 05:30 on 17th	Previous vessel cancelled departure
64	18th Jul		199.90	36,008	8.50	Wada - Niihama	7:15	Anchored off - Okado	Anchored up to proceed to Niihama at 11:30 on 18th	Bisan-seto East lane navigable water width 0m