# FOR THE SAFTY NAVIGATION IN JAPANESE COASTAL WATERS

# ~ Note ~

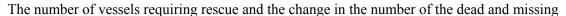
This book is no more than a reference to attempt the safe navigation for vessels. Each sailor who is going to navigate the sea areas around Japan must do research from other sources on Japanese regulations and the conditions of each navigating sea area.

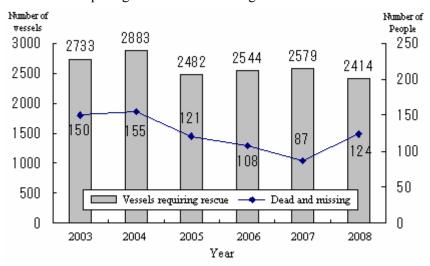
# Introduction

Japan is located in middle latitudes and frequently visited by extra tropical cyclones, so it is subject to major changes in weather and sea conditions. In addition, there are many dangerous areas for ships as seen in heavily congested Tokyo Bay, Ise Bay, and the Seto Inland Sea due to unfavorable geographical conditions, such as narrow channels, sunken rocks and complicated tidal currents. Aggravating congestion is getting more serious in the sea area around Japan due to the increasing activities related to marine transport, fisheries, and leisure, making sever environment for ships.

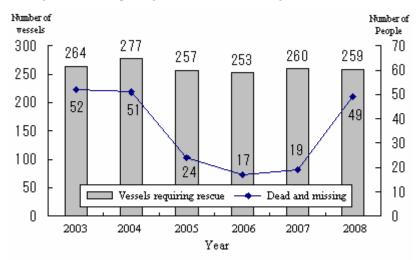
Therefore, the sea areas around Japan have been the places where marine casualties occur with great frequency. Approximately 2,600 vessels including foreign vessels meet with marine casualties as the average in the last 10 years, causing around 140 people found dead or missing.

We wish anyone who undertakes a voyage around Japan will read this book and navigate safely.





The number of foreign vessels requiring rescue and the change in the number of dead and missing



# TABLE OF CONTENTS

# PART 1 WEATHER AND SEA CONDITIONS IN SEA AREAS AROUND JAPAN

Chapter1 1.Fog 2.Gale	Weather Conditions in sea Areas along the Coast of Japa	n 1
	Sea Conditions in sea Areas along the Coast of Japan	9
2. Waves		
]	PART 2 NAVIGATION LAW AND PILOTAGE	
Chapter1	Navigation Law	16
1. Summ	ıry	
2. Port R	egulations Law	
	ne Traffic Safety Law	
	Pilotage	55
•	e System	
`	e District	
3. Comp	lsory Pilotage District	
]	PART 3 INFORMATION FOR SAFE NAVIGAT	'ION
	Provision of maritime safety information	57
1. NAVT	$\Xi X$	
	RSAT EGC	
	Telephone	
•	Navigational Warnings and Maritime Traffic Information	59
	REA Navigational Warning	
-	Navigational Warning	
•	al Coast Guard Headquarters Navigational Warning, Coast G	uard Office
Navig	tional Warning, Maritime Traffic Information	

Chapter 3	Information Service in Tokyo Bay, Ise Bay, Osaka Bay, Bisan Seto Area
	Kurushima Kaikyo Area, Kanmon Kaikyo Area and Nagoya Port 64
1. Tokyo V	Wan Vessel Traffic Service Center (Tokyo MARTIS)
2. Isewan	Vessel Traffic Service Center (Ise wan MARTIS)
3. Osaka V	Wan Vessel Traffic Service Center (Osaka MARTIS)
4. Bisan S	leto Vessel Traffic Service Center (Bisan MARTIS)
5. Kurush	ima Kaikyo Vessel Traffic Service Center (Kurushima MARTIS)
6. Kanmo	n Kaikyo Vessel Traffic Service Center (Kanmon MARTIS)
7. Nagoya	Port Vessel Traffic Service Center
Chapter4	Information in Port71
1. Port Op	peration Communications
Chapter 5	Uniform System of Buoyage along the Coast of Japan 74
Chapter 6	Japanese Ship Reporting System (JASREP)78
1. Outline	
2. Reporti	ng procedure
Chapter 7	Communication for Maritime Disasters
1. Distress	s Communication
2. List of	regional coast guard headquarters and other local offices
P	ART4 GUIDE TO SAFE NAVIGATION
-	Information on Sea and Weather Conditions and Early Sheltering when there is Threat of Bad Weather92
Chapter 2	Carrying on Board Essential Charts for Safe Navigations 94
Chapter 3	Verifying Operating Conditions and Performance of the Main Engine and Essential Auxiliaries of the Ship through Starting/Stopping and Go ahead/Go astern Trials and Tests before Entering Heavily Congested Sea Areas 98
R	REFERENCE Fisheries in Waters along the Coasts of Japan

#### PART 1 WEATHER AND SEA CONDITIONS IN SEA AREAS AROUND JAPAN

The sea areas along the coast of Japan are subject to great changes in sea as well as weather conditions, and this constitutes a grave threat to navigation.

All navigators are required to pay attention to the items described below, understand the geographical features in these sea areas, and try to enhance the navigational safety.

# Chapter 1 Weather Conditions in sea Areas along the Coast of Japan

#### 1. Fog

Of all the types of fog that occur in the sea areas along the coast of Japan, the most stringent precautions should be taken for front and sea fogs. These fogs occur quite extensively and occasionally remain for half a day to a full one day (See Fig. 1-1 and Table 1-1).

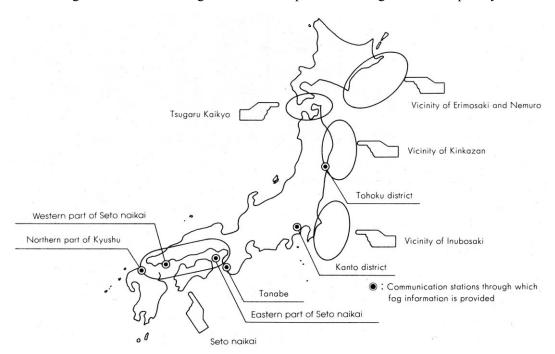


Fig. 1-1 Sea Areas along the Coast of Japan Where Fog Occurs Frequently

Table 1-1 See areas along shore of Japan where fog occurs frequently

	See areas	Fog period	Mature	Remarks
		0.1	Stage	
(1)	Vicinity of Inubo Saki	May-August	July	
(2)	Vicinity of Kinkazan	May-August	July	
(2)	Vicinity of Kinkazan	Way-August	June	
(3)	Tangaru Vailaya	April-August	June	A great deal of dense fog in seen
(3)	Tsugaru Kaikyo	Aprii-August	July	especially in July and August.
(4)	Vicinity of Erimo	Mary Assessed	T., 1.,	
(4)	Misaki Nemuro	May-August	July	
(5)	Kuril's Ostrova	Summer		During the summer period the islands are
(5)	(Kurile Islands)	period		practically covered with fog.
				Fog shows a sharp decrease with the end
				of the rainy season. In the circumference
			April	of Osaka Bay, Bisan Seto, Hiuchi Nada,
(6)	Seto Naikai	March-July	May	Aki Nada and Iyo Nada fog occurs
			June	frequently. Attention is to be given to
				Osaka Bay even during the winter
				months.

#### (1) Front Fog

This fog occurs most frequenty in spring as well as in fall. It occurs frequently in the rainfall area on the north side of the cold front extending from the east-northeast to the south-southwest and advancing south slowly.

To put it another way, there is a front extending roughly from east to west in the Sea of Japan, and both on its south side and its north side an isobar runs roughly parallel to it. On the north side of the front, there is rain and when the front goes south slowly, the most stringent precautions become necessary.

#### (2) Sea Fog

The rainy season is also a season of sea fog. It is this season when casualties in fog occur frequently. (May, June, July)

The weather map and an illustration of cloud for a typical Bai-u (seasonal rain) pattern on June XX are shown in Figs. 1-2 and 1-3, from which it becomes quite clear that on the north side of the Bai-u (seasonal rain) front extending from east to west, extensive sea fog occurs. (Refer to Fig. 1-2 and 1-3)

Fig. 1-2 Weather map, on June XX

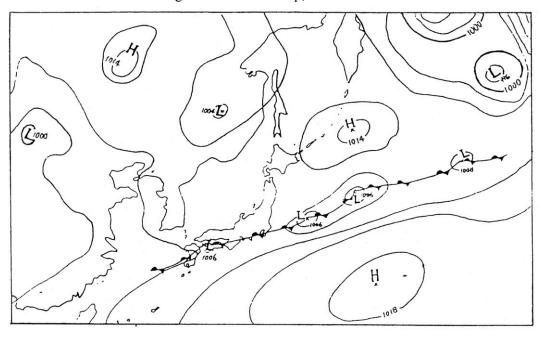
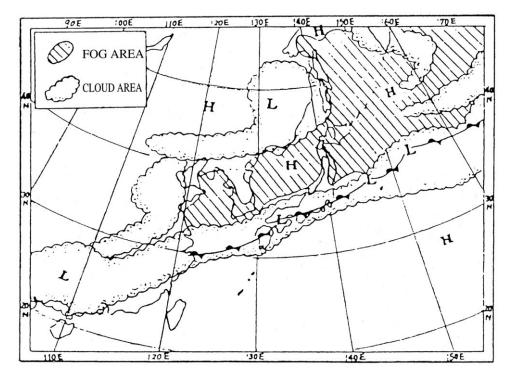


Fig. 1-3  $\,$  Illustration of cloud picture on June XX



# (3) Fog Information

When visibility is limited, fog information is provided through the following communication stations (See Table 1-2). Navigators are required to use this information effectively.

Table 1-2 Fog information providing condition

Communication	Sea area	Visibility	Calling	Languaga	Broadcasting
Stations	Sea area	Visionity	frequency	Language	time
					Fixed time
No.2 District	Off Sanriku	Less than 1,000m			(8 times a
					day)
		Less than one			
		nautical mile,			
	Uraga Suido/	1,000m (only in			
No.3 District	Patrol vessel	Uraga Suido) and			Whenever
No.5 District	sailing area	500m or when			necessary
	saming area	recovered to more			
		than one nautical			
		mile.			
	Akashi Kaikyo/				
	Tomogashima		CH16	Japanese/	
	Suido/		CH16	English	
	Naruto Kaikyo/	Less than 2,000m,			After
	Osaka,	1,000m, and 500m			broadcasting
No.5 District	Sakaiizumi-kita,	or when recovered			once, at even
	Kobe Sections of	to more than			numbered
	Hanshin Port/	2,000m			time.
	Himeji Port/				
	Wakayama				
	Shimotsu Port				
	Bisan Seto/				
No.6 District	Kurushima	Less than 2,000m			Whenever
	Kaikyo	LC55 man 2,000m			necessary
No.7 District	Kanmon Kaikyo				

#### 2. Gale

The following items can be pointed out for factors which bring about gale in Japanese coastal waters.

- · Winter monsoon
- Cyclone passing through the southern shores of Japan (The atmospheric depression which develops near Taiwan towards the end of winter and visits the southern shores of Japan causing snowfalls.)
- Cyclone following the Japan Sea course (Spring storm)
- · Twin cyclones
- Typhoon

#### (1) Winter monsoon

As shown in Fig. 1-4, it occurs at the time of pressure distribution where there is a continental anticyclone in the west and a deepened cyclone in the Kurilian districts in the east. Outbreak of the monsoon becomes extremely strong in cases where central pressure of the central anticyclone exceeded 1,050 hPa. In such case, northwardly gale of more than 30 m/s sometimes blow.

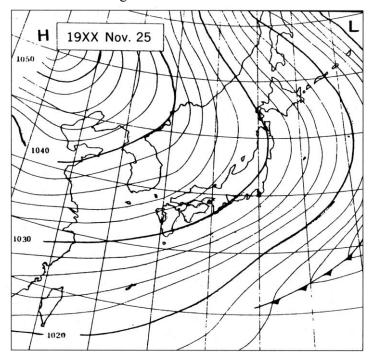


Fig. 1-4 Winter monsoon

# (2) Cyclone passing through the southern shores of Japan

Cyclone which occurred on the northeast shores of Taiwan develops quickly in most cases. Since central pressure may fall in some cases as much as 10 hPa or 20 hPa for 24 hours, leading to increase in the speed, special care should be given to it. (Fig. 1-5)

This cyclone develops quickly extending of Shikoku and Kanto, resulting in such a speed as about 60 Km per hour. Special care should be given to the case where central pressure off Kanto dipped below 990 hPa. The reason is that it may develop further and advance as far as

the Kurile Islands or Kamchatka, and as a result the central pressure may frequently deepen to a level ranging from 960 hPa to 940 hPa.

How far a storm zone of this cyclone extends goes as follows, if shown in Fig. 1-6.

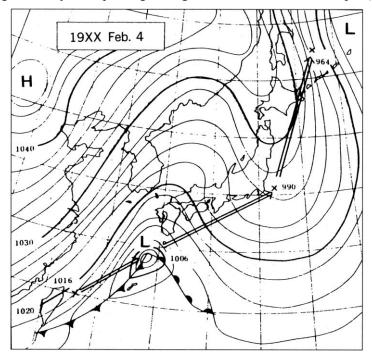
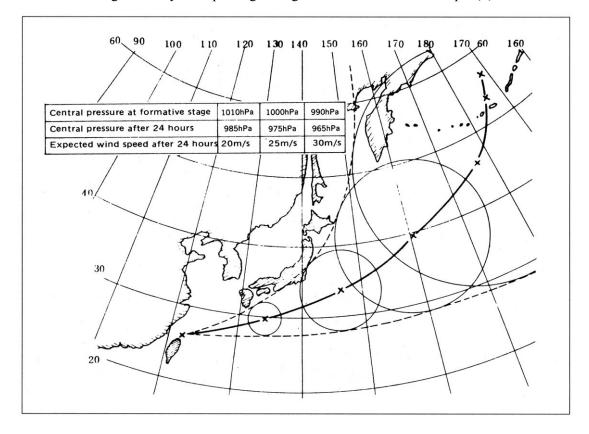


Fig. 1-5 Cyclone passing through the southern shores of Japan(1)

Fig. 1-6 Cyclone passing through the southern shores of Japan(2)



#### (3) Cyclone following the Japan Sea course (Spring storm)

When a distribution of atmospheric pressure for winter in which the high pressure area lies to the west and the low pressure area lies to the east, abates and a low pressure trough approaches from the continent, it is sometimes possible that cyclone will occur on the Eastern China Sea or the Yellow Sea, enter the Japan Sea and deepen quickly. In such a case, a southerly gale rages throughout Japan. (Fig. 1-7)

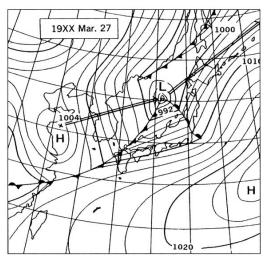


Fig. 1-7 Cyclone following the Japan Sea course (Spring storm)

#### (4) Twin cyclone (Futatsudama Teikiatsu)

When cyclone which occurred in the vicinity of the Yellow Sea enters the Japan Sea and develops quickly, while at the same time cyclone which occurred in China or the Eastern China Sea, developing, moves eastward on the southern shores of Japan, it is called Futatsudama Teikiatsu. It comes together, however, off the coast of Sanriku and deepens so much on the eastern shores of Hokkaido that it may frequently reach the same level as typhoon. (Fig. 1-8)

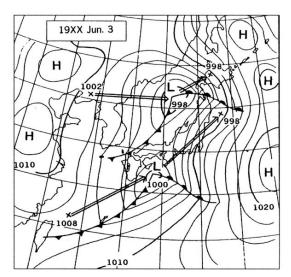


Fig. 1-8 Twin cyclone (Futatsudama Teikiatsu)

### (5) Typhoon

The average course of typhoon classified by month, according to a statistical observation, goes as Fig. 1-9. As may be readily understood there from, typhoon having gone up north turns to the northeast in the vicinity of lat. 20 degrees-30 degrees N. on Japanese waters and speeds up quickly. At the same time, it represents a time when the typhoon develops exceedingly. On the top of it, attention is to be given to the fact that among typhoons there is such a typhoon as to be called so-called stray one and take an irregular course. In general, forecast of the typhoon course is based on upper wind. In addition to it, following forecasts are possible in the light of empirical rules.

- (a) It proceeds to the direction where the degree of pressure fall in exceedingly great.
- (b) It proceeds to the direction where there is a rainfall area.

In any case, it is essential to get continuous information and to take action to keep away from the typhoon earlier than usual.

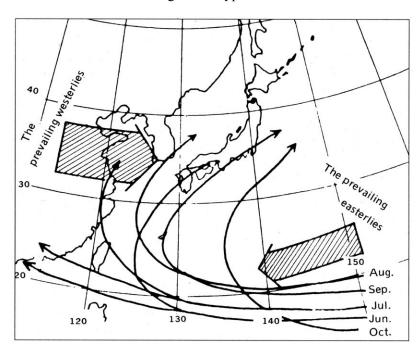


Fig. 1-9 Typhoon

### Chapter 2 Sea Conditions in sea Areas along the Coast of Japan

From among various phenomena that occur in the seas, ocean currents, waves, and sea ice are picked out as phenomena closely related to navigation and are summarized below.

Oceanic phenomena have their own characteristic features and show great variations which include seasonal and yearly variations. They frequently differ to a large extent from natural phenomena. Particular care is required, therefore, when such oceanic phenomena are to be interpreted or investigated.

#### 1. Ocean Currents

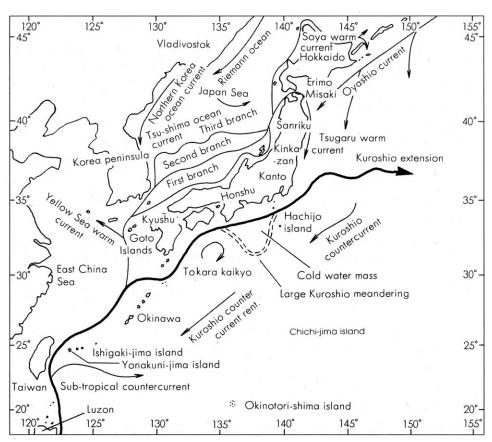


Fig. 1-10 General Situation of Ocean Currents in Japanese Waters

#### (1)Kuroshio Current

The Kuroshio Current or the Black Current (refer to Fig. 1-10) is also called the Japan Current. It is the largest ocean current in Japanese waters, and the only current.

The Kuroshio Current is a high-temperature, high-salinity warm current that is dark blue color as is implied by its name and has a transparency of more than 30 metres. Its flow rate is 2 to 3 kn on the average and reaches up to 4 to 5 kn, and its watercourse changes more violently in direction than is usually anticipated. It is always important to pay attention to the movement of the Kuroshio Current as it has a great influence on navigation. Navigators are required to take notice not only of information as to the passage of current, surface temperature, and flow rate of the Kuroshio Current summarized below, but also of the latest information provided by the Maritime Safety Agency with regard to ocean current reports, etc.

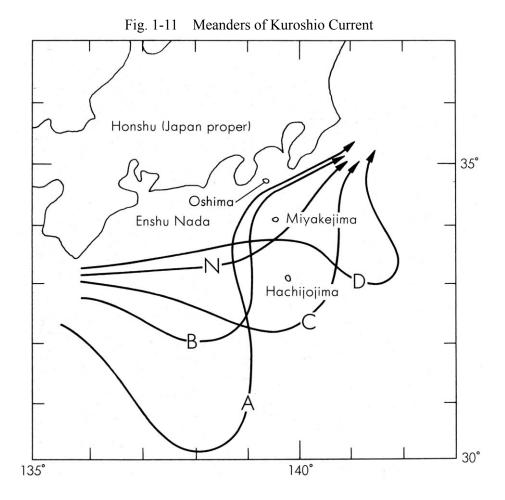
#### [Passage of the current]

The source of the Kuroshio Current is east of the Philippine Ils., where the North Equatorial Current separates north and south and where the northward branch then flows northward off Luzon. The Kuroshio Current then passes through the sea area between Taiwan and Yonakuni-jima Island, and flows into the East China Sea. It then advances northward along the outer edge of the continental shelf and passes through Tobara Kaikyo to the South Sea area of Japan. Part of the Kuroshio Current branches off from the main current in the sea area east of Taiwan and flows eastward to turn into a subtropical countercurrent. Part of the upper stream of the Kuroshio Current branches off from the main current in the sea area west of Okinawa, advances northward along the west of Kyushu, and flows into the Japan Sea through Tsushima Kaikyo to become the Tsushima Ocean Current.

The Kuroshio Current in the South Sea area of Japan generally approaches the south shore of Honshu (main island of Japan), flows eastward, advances away from the east coast of Kanto, and turns into a current flowing eastward in the eastern sea area of Honshu. This current is called the Kuroshio extension to distinguish it from the Kuroshio Current.

#### [Changes in the passage of the current and formation of cold water mass]

The Kuroshio Current in the South Sea area of Japan generally flows eastward or southeastward along the south shore of Honshu. Frequently, however, it is caused to meander in the vicinity of Enshu Nada by a cold water mass formed inside the Kuroshio Current. The meanders of the Kuroshio Current can be classified into type A or a large-scale meander and types N, B, C, and D according to the site and scale of the cold water mass formed inside. (See Fig. 1-11)



The large-scale (type A) meander of the Kuroshio Current is now regarded as one of regular passage of the current, because it has become common in recent years.

#### (2) Oyashio Current

The Oyashio Current (refer to Fig. 1-12), which is also called the Chisima Ocean Current or Kurilian Current, is one of the currents forming the west coast current of the sub-tropical circling system and is regarded as a typical cold current in Japanese waters. The Oyashio Current, however, is comparatively weak in terms of its flow energy and frequently becomes indistinct in relation to its watercourse. The main current of the Oyashio flows westward along the Pacific side of the Kurilskie Ostrova, reaching the eastern section of Hokkaido while sending forth southward branches in the vicinity of 150° E to 15° E and also of 146° E. to 147° E. It then advances southwestward along the Pacific side of the eastern section above, and then veers due south in the sea area off Erimo Misaki toward the sea area off Sanriku.

The main current then flows southward along the shore approximately 50 M off Sanriku. When it reaches the sea area of 40° N to 42° N, the main current flows against the northward branch of the Kuroshio Current to form a peculiar boundary between these two currents. It then flows eastward, meandering through the sea area east of Honshu. The southward Oyashio Current becomes strongest and reaches a sea area near Kinkazan in March through

April every year, while it becomes wearkest in November or December and begins to flow eastward in a sea area near 41030° N.

The Oyashio Current has a flow rate of 0.6 to 0.7 on average and reaches a maximum of 1.3 kn. It is approximately 10 to 15 M wide. Generally, the Kuroshio Current becomes weak in summer and autumn and strong in winter and spring. The Kuroshio Current sometimes has an especially strong southerly flow in spring and the cold water it brings with it reaches the sea area near Inubosaki.

#### (3) Ocean Currents In Japan Sea

In the Japan Sea, there are the Tsushima Ocean Current, which flows northeastward along the northwest side of Honshu, and the Riemann and North Korea Cold Ocean Currents, which flow southward along the east shore of the Korean peninsula. Taken together, a counterclockwise oceanic gyre is formed in this sea area. The two cold ocean currents flowing southward are not as distinct and strong as the Tsushima Ocean Current. They usually flow at a rate of less than 0.5 kn. In the vicinity of Vladivostok, however, the existence of a southwestward current flowing at a rate of more than one kn is occasionally reported.

#### [Tsushima Ocean Current]

The Kuroshio Current flowing northward along the west side of Kyushu is divided into two currents in the sea area off the Goto Islands. One of these two currents, the minor one, advances toward the Yellow Sea after skirting the south coast of Jeju Do. The other current, the major one, enters the Japan Sea through Tsushima Kaikyo and develops into the largest ocean current in the Japan Sea, known as the Tsushima Ocean Current or Tsusima Warm Current. (See Fig. 1-10)

The flow rate of these currents in the major passages of currents is approximately 1 to 1.5 kn in summer and 0.5 to 1.2 kn in winter.

#### (4) Ocean Currents in Okhotsk Sea

In the Sea of Okhotsk, there is an oceanic gyre usually circulating counter clockwise. Part of this oceanic gyre flows southward along the east coast of Sakhalin and is called East Sakhalin Ocean Current. The oceanic gyre has a low flow rate or approximately 0.3 to 0.8 kn throughout its course with the exception of the channel between the eastern part of Hokkaido and the Kurilskie Ostrova.

The Soya Warm Current, which passes through the Soya Kaikyo (strait) and flows southeastward along the northeastern coast of Hokkaido, is regarded as the main ocean current in the Okhotsk Sea.

This current flows 5 to 30 M off the coast at a mean flow rate of one to 2 kn in summer and approximately one kn in spring and autumn. In summer, the current becomes strongest and occasionally reaches a maximum flow rate of approximately 3 kn.

The detailed flow conditions of the straits and channels between the eastern part of Hokkaido and the Kurilskie Ostrova have not been clarified satisfactorily due to insufficient data. It is known, however, that there are currents flowing between the islands of the northern Kurilskie Ostrova into the Okhotsk Sea and those flowing between islands of the central and southern Kurilski Ostrova into the Pacific. (See Fig. 1-12)

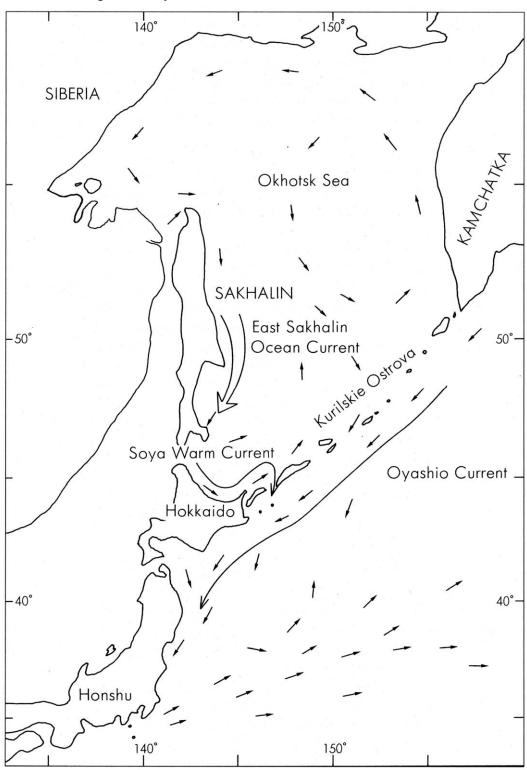


Fig. 1-12 Oyashio Current and Currents in Okhotsk Sea

#### 2. Waves

In Japanese waters waves run very high when a series of northwesterly seasonal winds blow or when developed low atmospheric pressures or typhoons pass through. Northwesterly seasonal winds begin to blow as the barometric gradient of atmospheric pressure distribution, in which the high pressure area lies to the west and the low pressure area to the east, deepens after the passage of low atmospheric pressures. Consequently, the sea becomes turbulet for several days. Some of low atmospheric pressures gain in force while passing in the vicinity of Japan and stormy winds extend over a radius of 500 to 800 M. A high-wave region covers a large sea area where waves reach as much as 0 metres or more in height. From summer through autumn, typhoons frequently pass in the vicinity of Japan causing big waves to rise around their courses and big surges to roll in the sea areas around the courses. Special care should be paid to such atmospheric phenomena as the above.

#### (1) Wave Height in Japanese Waters

[Winter]

In Japanese waters, the mean wind velocity is 15 to 20 kn and the mean wave height is 1.5 to 2 metres. High-wave regions are widely distributed, ranging from the sea area east of Kanto to the offing far from the shore of Japan. The mean wave height in these regons is more than 2.5 metres. In some places, it reaches as much as 3.5 metres. [Spring]

In Japanese waters, the mean wind velocity is 10 to 17 kn and the mean wave height is 1 to 1.8 metres. High-wave regions, where the mean wave height is about 2 metres, are scattered in the sea area southeast of Kamchatka and in the offing far east of Sanriku.

[Summer]

In Japanese waters, the mean wind velocity is 9 to 13 kn and the mean wave height is 0.8 to 1.5 metres. This is the calmest season of the year. High-wave regions where the mean wave height is about 2 metres can only be observed in some sea areas off Kito to Izu. [Autumn]

In Japanese waters, the mean wind velocity is 13 to 18 kn and the mean wave height is 1.3 to 1.9 metres. This is the season after winter when waves are most turbulent. High-wave regions, where the mean wave height is over 2.5 metres, can be observed in the sea area extending from the southeastern part of Kamechatka to the offing far from the shore of Sanriku and in the northern part of the East China Sea. In some places, he wave height reaches as much as approximately 3 metres.

#### (2) Waves Generated by Seasonal Winds

Seasonal winds continuously blow almost in a certain direction for hours at a considerably high velocity, and the fetch (the distance along open water over which the wind blows) of each seasonal wind gains in scale in the vicinity of Japanese waters. Consequently, big waves begin to rise and develop into larger ones over a wide range. Especially after the passage of a cold front accompanying a low atmospheric pressure, northwestward or northward seasonal winds blow one after another over the sea Act A at a velocity of more than 20 m/s and waves rage furiously. Moreover, atmospheric layers become unstable due to the approaching cold. As a result, the direction of wind suddenly changes and a violent gust of wind springs up, so that waves rolling in opposite directions gain in force, dash against one another, and turn into pyramidlike chopping waves. Stringent precaution should be taken against chopping waves since they are so powerful as to sink even a large-sized ship

once they grow up.

### (3) Waves Caused by Low Atmospheric Pressures

According to weather observations at specific points in sea areas east of Honshu, low atmospheric pressures which generate rough waves more than 5 metres high occur 17 times on average during the winter months (December through February) or once every 5 days. It is reported that the height of these waves reaches a maximum of 13 metres. At a specific point in the sea area south of Honshu, low atmospheric pressures equivalent in violence to those mentioned above are observed about 4 times on average every year. The height of the waves generated by these low atmospheric pressures reaches a maximum of 8 metres in March.

# (4) Waves Generated by Typhoons

Waves in the area of a typhoon are distributed with the highest intensity in the right-rear section of the quadrant and the lowest intensity in the left fore section according to the direction of the typhoon. This phenomenon can be interpreted by combining the following conditions

the wind velocity in the right semicircle (dangerous semicircle) is higher than that in the left semicircle (navigable semicircle);

in the right semicircle, the waves and the typhoon generally advance in the same direction, and both the time and distance in which the waves are exposed to the wind in the same direction are longer than those measured in the left semicircle; and

the waves in the rear semicircle and the rolling swell in the fore semicircle overlap in the rear semicircle, so that they are intensified. The height and periodic distribution of the waves in the area of a typhoon largely depend on the velocity of the typhoon. When the velocity of the typhoon is high, the waves in the rear semicircle are much higher than those in the fore semicircle. When the velocity of the typhoon is nearly equal to that of the waves, the waves gained in force, reaching the rear semicircle simultaneously with the typhoon, so that the waves suddenly become higher, especially in the dangerous semicircle. Special precaution should be taken for this.

#### (5) Waves in the Japan Sea

[Wind and waves]

In the Japan Sea and along the northwest coast of Honshu, big waves rise frequently in winter due to the effects of low atmospheric pressure and northwesterly seasonal wind. The low pressure velocity is 20 to 30 km/h, while the wind velocity is approximately 20 m/s and rarely exceeds 25 m/s. Wind and waves develop with a period of less than 12 seconds. The height of the waves is more than 8 metres; in extraordinary cases, it exceeds 10 metres. On average, low atmospheric pressure passes through once a week. It may be said, therefore, that not a day passes without waves developing.

In spring and autumn, the waves are comparatively low and surge for a short duration. Occasionally, high waves develop in the sea area along the coast due to localized winds.

In summer, a long spell of fine weather is generally observed except when a typhoon is passing.

In the sea area along the coast of the Japan Sea, the mean wave height is 0.6 to 1 metre and the mean wave period is 7 seconds. Waves of more than 2 metres high continue to rise for 1.4 days at the time of a typhoon, and for 3 days at the time of low atmospheric pressure.

# PART 2 NAVIGATION LAW AND PILOTAGE

# Chapter 1 Navigation Law

#### 1. Summary

Vessels navigating within Japanese territorial waters are subject to the restrictions outlined under three different laws. The objectives of each law and the relationships between them can be briefly described as follows.

- (1) The Law for Preventing Collisions at Sea is a Japanese version of the International Regulation for Preventing Collision at Sea, which is recognized as a basic common regulation of all maritime nations in the world. The Law for Preventing Collisions at Sea contains general regulations on lighting and navigation for all vessels cruising within Japanese territorial waters.
- (2) The Port Regulations Law, which can be considered a by-law of the Law for Preventing Collisions at Sea, is aimed at promoting safe navigation and at maintaining order within ports.
- (3) The Maritime Traffic Safety Law describes special traffic rules for traffic-congested areas.

In addition to obeying these three laws, masters of vessels should abide the recommendations issued by Regional Coast Guard Headquarters for proceeding through narrow channels where there is a strong possibility of casualties.

This chapter, in particular, will describe the Port Regulation Law and the Maritime Traffic Safety Law which apply to traffic-congested areas. Notifications of traffic routes, which are part of the Maritime traffic Safety Law, are also presented in this chapter and should be strictly abided by masters of foreign vessels.

#### 2. Port Regulations Law

(1) Purpose of this Law

The purpose of this Law is to ensure the safe navigation of vessels and maintenance of good order in ports.

#### (2) Summary of Restriction

This Law provides extra rules of "The Law for Preventing Collision at Sea" for congested vessel traffic in ports and regulates the following:

- (i) matters convening vessel's navigation, berthing, etc.
- (ii) Actions such as dumping waste materials, construction or work which affect safe navigation.
- (iii) lights and signals for vessels.
- (iv) smoking, using naked flames, handling dangerous goods, etc.

Furthermore, special navigation methods are established for each part.

#### (3) Applicable ports

There are 500 ports to which this Law applies, including 84 so-called "specified ports". This Law, besides the restrictions on applicable ports mentioned in paragraph, regulates the establishment of passages, handling of dangerous goods, and designation of anchor-ages within specified ports.

A captain of the port is appointed for each specified port from among Maritime Safety Officials by the Commandant of the Japan Coast Guard, and he is responsible for enforcing the Port Regulations Law in his appointed port.

#### (4) Traffic control within ports

Traffic control within ports is outlined in Table 2-1.

# (Reference) List of Ports to Which Port Regulation Law Applies

To Do Ey and	(Reference) List of Forts to Which Fort Regulation Law Applies					
To, Do, Fu and Prefectures	Name of Port					
Hokkaido	Esashi, Oumu, Monbetsu, Abashiri, Rausu, Nemuro*, Hanasaki, Kiritappu, Akkeshi, Kushiro*, Tokachi, Erimo, Samani, Urakawa, Tomakomai*, Muroran*, Date, Mori, Usujiri, Hakodate*, Matsumae, Fukushima, Esashi, Setana, Suttu, Iwanai, Yoichi, Otaru*, Ishikariwan, Mashike, Rumoi*, Tomamae, Hahoro, Teshio, Wakkanai*, Aonae, Teuri, Yagishiri, Kutsugata, Oniwaki, Oshidomari, Kafuka, Funadomari					
Aomori	Fukaura, Ajigasawa, Kodomari, Minmaya, Hiradate, Aomori*, Kominato, Noheii, Omanato, Kawauchi, Wakinosawa, Sai, Oma, Ohata, Shiriyamisaki, Mutsuogawara*, Hachinohe*					
Iwate	Kuji, Yagi, Miyako, Yamada, Ozuchi, Kamaishi*, Ofunato, Hirota					
Miyagi	Kesennuma, Shizukawa, Onagawa, Ayukawa, Ogihama, Watanoha, Ishinomaki*, Sendaishiogama*					
Akita	Kisakata, Konoura, Hirasawa, Honsho, Akitafunakawa*, Toga, Kitaura, Noshiro					
Yamagata	Sakata*, Kamo, Yura, Nezumigaseki					
Fukushima	Soma, Shikura, Ena, Nakanosaku, Onahama*					
Ibaraki	Hirakata, Otsu, Ose, Hitachi*, Hitachinaka, Nakaminato, Oarai, Kashima*					
Ibaraki Chiba	Choshi					
Chiba	Katsuura, Shirahama, Tateyama, Kisarazu*, Chiba*					
Tokyo	Okada, Habu, Motomachi, Niijima, Okubo, Kamiminato, Yaene					
Tokyo	Keihin*					
Kanagawa	Kenni					
Kanagawa	Yokosuka*, Misaki, Manazuru					
Niigata	Nou, Naoetsu*, Kashiwazaki, Teradomari, Niigata*, Iwafune, Ryotsu*, Hamochi, Ogi, Himekawa					
Toyama	Uozu, Fushikitoyama*, Himi					
Ishikawa	Nanao*, Anamizu, Udezu, Ogi, Iida, Wajima, Fukura, Taki, Kanazawa*					
Fukui	Uchiura, Wada, Obama, Tsuruga*, Fukui*					
Shizuoka	Atami, Ajiro, Ito, Inatori, Shimoda, Teishi, Matsuzaki, Ukusu, Toi, Heda, Shizuura, Numazu, Tagonoura*, Shimizu*, Yaizu, Oigawa, Haibara, Sagara, Omaezaki, Hamana					
Aichi	Irako, Fukue, Izumi, Mikawa*, Higashihazu, Yoshida, Ishiki, Kinuura*, Morozaki, Shinoshima, Toyohama, Uchimi, Tokoname, Nagoya*					
Mie	Kuwana, Yokkaichi*, Chiyozaki, Tsu, Matsuzaka, Ujiyamada, Toba, Namikiri, Hamajima, Gokasho, Nagashima, Hikimoto, Owase, Kinomoto					
Kyoto	Kumihama, Asamogawa, Taiza, Nakahama, Honjo, Ine, Miyazu*, Maizuru*, Nohara, Tai					
Osaka	Fukahi, Hannan*, Sensyu*					
Osaka Hyogo	Hanshin*					
Hyogo	Akashi, Higashiharima*, Yagi, Himeji*, Aioi, Ako, Tsuiyama, Shibayama, Kasumi, Hamasaka, Iwaya, Tsuna, Sumoto, Yura, Fukura, Minato, Tsushi, Gunge, Toshima					
Wakayama	Shingu, Ukui, Katsuura, Uragami, Kozanishimuki, Kushimoto, Hioki, Tanabe*, Hidaka, Yura, Yuasahiro, Wakayama Shimotsu*					
Tottori	Yonago, Akasaki, Tottori, Amishiro, Tago					
Tottori Shimane	Sakai*					
Shimane	Masuda, Misumi, Hamada*, Gotsu, Jinman, Hisate, Taisha, Keiun, Kaga, Shichirui, Mihonoseki, Matsue, Yasugi, Saigou, Urago					
Okayama	Hinase, Katakami, Tsurumi, Ushimado, Saidaiji, Kogushi, Okayama, Uno*, Hibi, Kotoura, Ajino, Shimotsui, Mizushima*, Kasaoka					
Hiroshima	Fukuyama*, Onomichiitosaki*, Tadaumi, Takehara, Akitsu, Kure*, Hiroshima, Otake, Tou, Shigei, Saki, Setoda, Mebaruzaki, Kinoe, Mitarai, Onishi, Kamagari, Itsukushima					

To, Do, Fu and Prefectures	Name of Port
Yamaguchi	Iwakuni*, Hisaga, Agenosho, Komatsu, Yanai*, Murotsu, Kaminoseki, Hirao, Murozumi, Tokuyamakudamatsu*, Mitajirinakazeki*, Aio, Yamaguchi, Maruo, Ube*, Onoda, Asa, Kogushi, Kottoi, Sumishima, Awano, Senzaki, Hagi*, Susa, Esaki
Yamaguchi Fukuoka	Kanmon*
Tokushima	Buyo, Imakiri, Tokushima Komatsujima*, Tomioka, Tachibana, Yuki, Hiwasa, Mugi, Asakawa, Shishikui
Kagawa	Toyohama, Kanonji, Nito, Takuma, Tadotsu, Marugame, Sakaide*, Kasai, Takamatsu*, Shido, Tsuda, Sanbonmatsu, Hiketa, Sakate, Utsumi, Ikeda, Tonosho, Naoshima
Ehime	Fukaura, Uwajima, Yoshida, Mikame, Yawatahama, Kawanoishi, Misaki, Mitsukue, Nagahama, Korinaka, Matsuyama*, Hojo, Kikuma, Imabari*, Yoshiumi, Minobugawa, Saijyou, Niihama*, Samukawa, Mishimakawanoe*, Okamura, Miyaura, Hakata
Kochi	Kounoura, Murotomisaki, Murotsu, Nahari, Kochi*, Usa, Susaki, Kure, Uenokae, Saga, Kamikawaguchi, Shimoda, Shimizu, Katashima
Fukuoka	Kafuri, Hakata*, Oshima, Ashiya, Kanda, Ushima, Miike*, Omuta, Wakatsu
Saga	Yobuko, Karatsu*, Suminoe, Morodomi
Saga Nagasaki	Imari*
Nagasaki	Shimabara, Kuchinotsu, Obama, Mogi, Wakisaki, Nagasaki*, Mieshikimi, Seto, Matsushima, Omura, Sakito, Sasebo*, Aiura, Usuura, Emukae, Tabira, Matsuura, Imafuku, Fukue, Tomie, Tamanoura, Kishiku, Narushima, Narao, Arikawa, Aokata, Ojika, Hirado, Tsuyoshi, Ikitsuki, Oshima, Ashibe, Gonoura, Katsumoto, Hitakatsu, Sasuna, Izuhara*, Tsutsu
Kumamoto	Minamata, Sashiki, Yatsushiro, Misumi*, Kumamoto, Hyakkan, Nagasu, Aizu, Himedo, Hondo, Ushibuka, Tomioka, Oniike
Fukuoka Oita	Nakatsu
Oita	Nagasu, Takada, Takedatsu, Kunisaki, Morie, Beppu, Oita*, Saganoseki, Usuki, Tsukumi, Saiki, Kamae
Miyazaki	Kitaura, Nobeoka, Totoro, Hososhima*, Miyazaki, Uchinomi, Aburatsu, Sotoura, Fukushima
Kagoshima	Shibushi, Uchinoura, Odomari, Onejime, Kanoya, Tarumizu, Fukuyama, Kajiki, Kagoshima*, Kiire*, Yamagawa, Makurasaki, Nomaike, Kushikino, Kawauchi, Akune, Komenotsu, Nishinoomote, Shimama, Nakakoshiki, Teuchi, Issou, Miyanoura, Naze*, Koniya
Okinawa	Kinnakgusuku*, Naha*, Toguchi, Unten, Hira, Ishigaki

Note: Mark \* indicates specified ports.

# Table Related to Application of Port Regulation Law

\$ 4 Reporting of entry into/departure from port  ② 4 Anchorage specified  ② 4 Anchorage specified  ③ 5 Anchorage specified  Anchorage specified  ③ Anchorage specified  Anchorage specified (When recognized as necessary by port manager)  ⑤ Notification of permission of facilities by controller of mooring facilities  ⑥ Restriction/prohibition of use of mooring facilities  ⑥ Restriction/prohibition of use of mooring facilities  ⑤ Convenience offering by controller of mooring facilities and port manager  ⑤ Restriction of night entry into port  ⑤ Restriction of movement  ⑤ Restriction of movement  ⑤ Resporting of repairing and mooring  ⑤ Specifying of anchoring place related to repairing and mooring  ⑤ Specifying of anchoring place related to repairing and mooring  ⑤ Restriction of mooring, etc.  ⑤ 10 Moving order  ⑥ 11 Restriction of anchoring  ⑥ 12 Obligation to navigate in course  ⑥ 13 Prohibition of anchoring etc. within course  ⑥ 14 ① ④ Navigation in course  ⑥ 15 Navigation at or near the entrance of breakwater  ⑥ Navigation of avoiding navigation of small ships  ⑥ Obligation of avoiding navigation of small ships  ⑥ Obligation of avoiding navigation of small ships  ⑥ Obligation of avoiding navigation of small ships  ⑤ Operating of type of dangerous goods  ② Order entrusting of type of dangerous goods	Article	Description	Law applicable port	Specified port
Anchorage specified  Anchorage specified (When recognized as necessary by port manager)  Anchorage specified (When recognized as necessary by port manager)  Notification of permission of facilities by controller of mooring facilities  Restriction/prohibition of use of mooring facilities  Restriction/prohibition of use of mooring facilities  Convenience offering by controller of mooring facilities and port manager  Restriction of night entry into port  Restriction of movement  Restriction of movement  Reporting of repairing and mooring  Specifying of anchoring place related to repairing and mooring  Boarding order of necessary number of persons  Restriction of mooring, etc.  Solo Moving order  Restriction of anchoring  Restriction of anchoring  Restriction of anchoring  Nation Moving order  Restriction of anchoring  Restriction of anchoring  Restriction of anchoring  Nation Moving order  Navigation in course  Solo Moving order  Navigation in course  Solo Navigation at or near the entrance of breakwater  Navigation of sailing ship  Navigation of avoiding navigation of miscellaneous ships  Obligation of avoiding navigation of miscellaneous ships  Marking obligation of ships other than small ships/miscellaneous ships  Navigation are necessary number of persons on the specified by order)  Specified by order  Restriction of avoiding navigation of miscellaneous ships  Obligation of svoiding navigation of miscellaneous ships  Obligation of svoiding navigation of miscellaneous ships  Profit manager's instructions to ships loaded with dangerous goods  Order entrusting of type of dangerous goods  Order entrusting of type of dangerous goods  Permission of loading/unloading of dangerous goods	§ 4	Reporting of entry into/departure from port		
Anchorage specified worder)  Anchorage specified (When recognized as necessary by port manager)  Notification of permission of facilities by controller of mooring facilities  Restriction/prohibition of use of mooring facilities  Convenience offering by controller of mooring facilities and port manager  Restriction of night entry into port  Restriction of night entry into port  Restriction of movement  Restriction of movement  Reporting of repairing and mooring  Specifying of anchoring place related to repairing and mooring  Restriction of mooring, etc.  Restriction of anchoring	§ 5 ①	Anchoring restriction		0
Anchorage specified (When recognized as necessary by port other than the above)    Solitication of permission of facilities by controller of mooring facilities   Convenience offering by controller of mooring facilities   Convenience offering by controller of mooring facilities and port manager   Convenience offering by controller of mooring facilities and port manager   Copyright   Convenience offering by controller of mooring facilities and port manager   Copyright   C	24	Anchorage specified		specified by order)
mooring facilities Restriction/prohibition of use of mooring facilities Convenience offering by controller of mooring facilities and port manager  Restriction of night entry into port Set Restriction of movement Set Restriction of movement Set Reporting of repairing and mooring Set Secifying of anchoring place related to repairing and mooring Boarding order of necessary number of persons Set Restriction of mooring, etc. Set Restriction of mooring, etc. Set Restriction of anchoring place related to repairing and mooring Restriction of anchoring place related to repairing and mooring Restriction of anchoring place related to repairing and mooring Restriction of anchoring, etc. Set Restriction of anchoring place related to repairing and mooring place related place pl	34			port other than
Convenience offering by controller of mooring facilities and port manager    Convenience offering by controller of mooring facilities and port manager   (Port specified by order)		*		0
and port manager    Restriction of night entry into port   specified by order	6	Restriction/prohibition of use of mooring facilities		0
\$ 6 Restriction of night entry into port  \$ 7 ①② Restriction of movement  \$ 8 ① Reporting of repairing and mooring  ② Specifying of anchoring place related to repairing and mooring  ③ Boarding order of necessary number of persons  \$ 9 ① Restriction of mooring, etc.  \$ 10 Moving order  \$ 11 Restriction of anchoring  \$ 12 Obligation to navigate in course  \$ 13 Prohibition of anchoring, etc. within course  \$ 14 ①-④ Navigation in course  \$ 15 Navigation at or near the entrance of breakwater  \$ 16 ① Speed limit  ② Navigation of sailing ship  \$ 17 Navigation of avoiding navigation of miscellaneous ships  ② Obligation of avoiding navigation of miscellaneous ships  ② Obligation of avoiding navigation of small ships  Alarking obligation of ships other than small ships/miscellaneous ships  ③ Marking obligation of ships other than small ships/miscellaneous ships  ③ Port manager's instructions to ships loaded with dangerous goods  ② Order entrusting of type of dangerous goods  § 22 Anchoring/mooring restrictions for ships loaded with dangerous goods  § 23 ① Permission of loading/unloading of dangerous goods	7			0
\$ 8 ① Reporting of repairing and mooring  2 Specifying of anchoring place related to repairing and mooring  3 Boarding order of necessary number of persons  \$ 9 ① Restriction of mooring, etc.  \$ 10 Moving order  \$ 11 Restriction of anchoring  \$ 12 Obligation to navigate in course  \$ 13 Prohibition of anchoring, etc. within course  \$ 14 ①-④ Navigation in course  \$ 15 Navigation at or near the entrance of breakwater  \$ 16 ① Speed limit  2 Navigation of sailing ship  3 Navigation of sailing ship  4 Navigation of avoiding navigation of miscellaneous ships  5 Obligation of avoiding navigation of small ships  6 Obligation of avoiding navigation of small ships  7 Oport  8 19 ① Special navigation rules (related to 14 (3) (4), 15 and 17)  2 Special navigation rules (related to 14 (3) (4), 15 and 17)  2 Special navigation rules (related to others than 14-1 8)  \$ 20 (deleted)  \$ 21 ① Port manager's instructions to ships loaded with dangerous goods  2 Order entrusting of type of dangerous goods  \$ 22 Anchoring/mooring restrictions for ships loaded with dangerous goods  \$ 23 ① Permission of loading/unloading of dangerous goods				specified by
Specifying of anchoring place related to repairing and mooring  Boarding order of necessary number of persons  S 9		Restriction of movement		
Boarding order of necessary number of persons   S 9	§ 8 ①			0
\$ 9	2			0
\$ 9 ① Restriction of mooring, etc. \$ 10 Moving order \$ 11 Restriction of anchoring \$ 12 Obligation to navigate in course \$ 13 Prohibition of anchoring, etc. within course \$ 14 ①-④ Navigation in course \$ 15 Navigation in course \$ 16 ① Speed limit ② Navigation of sailing ship ③ Navigation of sailing ship ⑤ \$ 17 Navigation near the tip of a structure or anchored ship ⑤ \$ 18 ① Obligation of avoiding navigation of miscellaneous ships ⑥ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	3	Boarding order of necessary number of persons		0
\$ 10 Moving order \$ 11 Restriction of anchoring \$ 12 Obligation to navigate in course \$ 13 Prohibition of anchoring, etc. within course \$ 14 ①-① Navigation in course \$ 15 Navigation at or near the entrance of breakwater \$ 16 ① Speed limit  ② Navigation of sailing ship \$ 17 Navigation near the tip of a structure or anchored ship \$ 18 ① Obligation of avoiding navigation of miscellaneous ships  Obligation of avoiding navigation of miscellaneous ships  Obligation of avoiding navigation of small ships  Operation of the property of the	§ 9 ①		0	0
\$ 11 Restriction of anchoring \$ 12 Obligation to navigate in course \$ 13 Prohibition of anchoring, etc. within course \$ 14 ①-④ Navigation in course \$ 15 Navigation at or near the entrance of breakwater \$ 16 ① Speed limit  ② Navigation of sailing ship \$ 17 Navigation near the tip of a structure or anchored ship \$ 18 ① Obligation of avoiding navigation of miscellaneous ships  ② Obligation of avoiding navigation of small ships  ③ Marking obligation of ships other than small ships/miscellaneous ships  ③ Marking obligation of ships other than small ships/miscellaneous ships  ⑤ (Port specified by order)  § 19 ① Special navigation rules (related to 14 (3) (4), 15 and 17) ② Special navigation rules (related to others than 14-1 8)  § 20 (deleted)  § 21 ① Port manager's instructions to ships loaded with dangerous goods ② Order entrusting of type of dangerous goods  § 22 Anchoring/mooring restrictions for ships loaded with dangerous goods § 23 ① Permission of loading/unloading of dangerous goods			0	0
\$ 12 Obligation to navigate in course \$ 13 Prohibition of anchoring, etc. within course \$ 14 ①-① Navigation in course \$ 15 Navigation at or near the entrance of breakwater \$ 16 ① Speed limit ② Navigation of sailing ship ③ Navigation near the tip of a structure or anchored ship ⑤ 17 Navigation near the tip of a structure or anchored ship ⑤ 18 ① Obligation of avoiding navigation of miscellaneous ships ⑥ Obligation of avoiding navigation of small ships ② Obligation of avoiding navigation of small ships ⑤ (Port specified by order)  ⑤ Marking obligation of ships other than small ships/miscellaneous ships ⑤ (Port specified by order)  ⑤ 19 ① Special navigation rules (related to 14 (3) (4), 15 and 17) ⑥ 2 Special navigation rules (related to others than 14- 1 8) ⑥ 2 (deleted)  ⑤ 21 ① Port manager's instructions to ships loaded with dangerous goods ⑥ Order entrusting of type of dangerous goods ⑥ Order entrusting of type of dangerous goods ⑥ Anchoring/mooring restrictions for ships loaded with dangerous goods ⑥ Permission of loading/unloading of dangerous goods	§ 11		0	0
\$ 13				0
§ 14 ①-④       Navigation in course       ○         § 15       Navigation at or near the entrance of breakwater       ○         § 16 ①       Speed limit       ○         ②       Navigation of sailing ship       ○         § 17       Navigation near the tip of a structure or anchored ship       ○         § 18 ①       Obligation of avoiding navigation of miscellaneous ships       ○         ②       Obligation of avoiding navigation of small ships       ○         ②       Marking obligation of ships other than small ships/miscellaneous ships       ○         § 19 ①       Special navigation rules (related to 14 (3) (4), 15 and 17)       ○         ②       Special navigation rules (related to others than 14- 18)       ○         § 20       (deleted)         § 21 ①       Port manager's instructions to ships loaded with dangerous goods       ○         § 22       Anchoring/mooring restrictions for ships loaded with dangerous goods       ○         § 23 ①       Permission of loading/unloading of dangerous goods       ○				0
§ 15       Navigation at or near the entrance of breakwater       ○         § 16 ①       Speed limit       ○         ②       Navigation of sailing ship       ○         § 17       Navigation near the tip of a structure or anchored ship       ○         § 18 ①       Obligation of avoiding navigation of miscellaneous ships       ○         ②       Obligation of avoiding navigation of small ships       ○         ②       Marking obligation of ships other than small ships/miscellaneous ships       ○         § 19 ①       Special navigation rules (related to 14 (3) (4), 15 and 17)       ○         ②       Special navigation rules (related to others than 14-18)       ○         § 20       (deleted)         § 21 ①       Port manager's instructions to ships loaded with dangerous goods       ○         § 22       Anchoring/mooring restrictions for ships loaded with dangerous goods       ○         § 23 ①       Permission of loading/unloading of dangerous goods       ○	§ 14 ①-④	Navigation in course		0
\$ 16 ① Speed limit ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○		Navigation at or near the entrance of breakwater	0	0
\$ 17 Navigation near the tip of a structure or anchored ship  \$ 18 ① Obligation of avoiding navigation of miscellaneous ships  Obligation of avoiding navigation of miscellaneous ships  Obligation of avoiding navigation of small ships  Obligation of avoiding navigation of small ships  Obligation of avoiding navigation of small ships  Operation of the pecified by order order of the pecified by order order of the pecified by order order order of the pecified by order or	§ 16 ①	Speed limit	0	0
\$ 17 Navigation near the tip of a structure or anchored ship  \$ 18 ① Obligation of avoiding navigation of miscellaneous ships  Obligation of avoiding navigation of small ships  Marking obligation of ships other than small ships/miscellaneous ships  Special navigation rules (related to 14 (3) (4), 15 and 17)  Special navigation rules (related to others than 14- 1 8)  Special navigation rules (related to others than 14- 1 8)  Obligation of avoiding navigation of small ships  Operation	2	Navigation of sailing ship	0	0
Obligation of avoiding navigation of small ships  Marking obligation of ships other than small ships/miscellaneous ships  Specified by order)  Special navigation rules (related to 14 (3) (4), 15 and 17)  Special navigation rules (related to others than 14- 1 8)  Special navigation rules (related to 14 (3) (4), 15 and 17)  Special navigation rules (related to 14 (3) (4), 15 and 17)  Special navigation rules (related to 14 (3) (4), 15 and 17)  Special navigation rules (related to 14 (3) (4), 15 and 17)  Special navigation rules (related to 14 (3) (4), 15 and 17)  Special navigation rules (related to 14 (3) (4), 15 and 17)  Special navigation rules (related to 14 (3) (4), 15 and 17)  Special navigation rules (related to 14 (3) (4), 15 and 17)  Special navigation rules (related to 14 (3) (4), 15 and	§ 17	Navigation near the tip of a structure or anchored ship	0	0
②       Obligation of avoiding navigation of small ships       specified by order)         ③       Marking obligation of ships other than small ships/miscellaneous ships       ○ (Port specified by order)         § 19 ①       Special navigation rules (related to 14 (3) (4), 15 and 17)       ○         ②       Special navigation rules (related to others than 14- 1 8)       ○         § 20       (deleted)         § 21 ①       Port manager's instructions to ships loaded with dangerous goods       ○         ②       Order entrusting of type of dangerous goods       ○         § 22       Anchoring/mooring restrictions for ships loaded with dangerous goods       ○         § 23 ①       Permission of loading/unloading of dangerous goods       ○	§ 18 ①	Obligation of avoiding navigation of miscellaneous ships	0	0
Specified by ships/miscellaneous ships   Specified by order	2	Obligation of avoiding navigation of small ships		specified by order)
Special navigation rules (related to others than 14-18)  \$ 20				specified by
\$ 20 (deleted)  \$ 21 ① Port manager's instructions to ships loaded with dangerous goods  ② Order entrusting of type of dangerous goods  \$ 22 Anchoring/mooring restrictions for ships loaded with dangerous goods  \$ 23 ① Permission of loading/unloading of dangerous goods		Special navigation rules (related to 14 (3) (4), 15 and 17)		
\$ 21 ① Port manager's instructions to ships loaded with dangerous goods  ② Order entrusting of type of dangerous goods  § 22 Anchoring/mooring restrictions for ships loaded with dangerous goods  § 23 ① Permission of loading/unloading of dangerous goods			0	0
goods  Order entrusting of type of dangerous goods  Anchoring/mooring restrictions for ships loaded with dangerous goods  § 22 Permission of loading/unloading of dangerous goods	§ 20	(deleted)		
\$ 22 Anchoring/mooring restrictions for ships loaded with dangerous goods  \$ 23 ① Permission of loading/unloading of dangerous goods	§ 21 ①			0
\$ 22 Anchoring/mooring restrictions for ships loaded with dangerous goods  \$ 23 ① Permission of loading/unloading of dangerous goods	2	Order entrusting of type of dangerous goods		0
§ 23 ① Permission of loading/unloading of dangerous goods		Anchoring/mooring restrictions for ships loaded with		0
	§ 23 ①			0
	23	Specifying of work place outside the port boundary		_

Article	Description	Law applicable port	Specified port
4	Permission of transporting of dangerous goods		$\circ$
§ 24 ①	Control of waste abandoning	$\bigcirc$	$\circ$
2	Dropping prevention measures against scattered objects	$\bigcirc$	$\circ$
3	Order to remove abandoning wastes and scattered objects		$\circ$
§ 25	Measures and reporting at occurrence of disasters at sea	$\bigcirc$	$\circ$
§ 26	Order to remove driftage, etc.	<b>\( \*</b>	0
§ 27 ①②	Light of small ships within port	0	0
§ 28	Blowing restriction of whistle and siren	0	0
§ 29	Permission of private signals	0	0
§ 30 ①②	Fire alarm		0
§ 30 2	Indication of method of fire alarm		0
§ 31 ①	Permission of work/operation	0	0
2	Order of necessary measures	O*	0
§ 32	Permission of events		0
§ 33	Reporting of ship launching and entry into/departure from dock		0
§ 34 ①	Permission of unloading of bamboo/lumber and mooring/operation of rafts		0
2	Order of necessary measures		0
§ 35	Restriction of fishing	$\bigcirc$	$\circ$
§ 36 ①	Restriction of use of light	$\bigcirc$	$\circ$
2	Light dimming/covering order	$^*$	0
§ 36 2 <u>1</u> 2	Restriction of smoking, etc.	○*(Item 2)	0
§ 36 3 <sup>1</sup>	Obligation to observe control signals	<u></u> *	0
2	Reporting of scheduled time of navigation in waterway	0	0
3	Order entrusting of position of signal box/signal contents	<u></u> *	0
§ 37 ①②③	Restriction/prohibition of ship traffic	0	0
§ 37 2	Control of nuclear-powered vessel	0	0

Note: Mark\*: those to be applied to law applicable ports other than specified ports in accordance with 3 of Section 37 of Port Regulation Law

Table 2-1 Traffic control within the port

Port	Waterways covered		Signal stations	Method of sign	alling
FOIt			Signal Stations	Daytime	Nighttime
Tomakomai	Tomakomai Waterway		Tomakomai	Electric light letter	
TOIIIaKoiiiai	Yufutsu	Waterway	Yufutsu	Electric light letter	
Hachinohe	Part of river surface		Hachinohe	Flash, Figure, Flag	Flash
Shiogama	Part of	Passage	Shiogama	Flash, Figure, Flag	Flash
Kashima	Kashima	Waterway	Kashima	Flash	
rasiiiia	Rasillila	vvacei way	Kashima chuo	Electric light l	letter
	Chiha	Passage	Chiba light beacon	Electric light	letter
Chiba			Shinko	Flash	
		ı Passage	Chiba light beacon	Flash	
	Tokyo Ea	st Passage	Jugogochi, Chuobo, Jugochi	Electric light	letter
	Tokyo Wa	est Passage	Tokyo light beacon	Flash	
	TORYO W		Oi, Jusangochi, Harumi	Electric light l	
	Tsurumi	North Waterway	Tsurumi	Electric light l	
	Passage	South Waterway	Tsurumi Daini	Electric light l	letter
Keihin		1st Quarter	Tsurumi, Tanabe	Electric light l	letter
Renimi	Keihin Canal	2nd Quarter	Ikegami	Electric light l	letter
	Kemin Canai	3rd Quarter	Shiohama, Mizue	Electric light letter	
		4th Quarter	Kawasaki, Daishi	Electric light	letter
	Kawasaki Passage		Kawasaki	Electric light l	letter
	Yokohama West Waterway		Daidoku, Naiko	Electric light l	letter
	Passage	East Waterway	Honmoku	Electric light letter	
Niigata	West	Quarter	Niigata	Flash, Figure, Flag Flas	
	East Passage		Takashio Bohatei East, Kinjo	Electric light letter	
Nagoya	West Passage		Takashio Bohatei West, Kinjo	Electric light letter	
	North Passage		Kinjo, Nagoya North	Electric light l	letter
Yokkaichi	No.1 Passage, U	maokoshi Passage	Yokkaichi, Yokkaichi Bohatei	Flash	
	Hamadera	a Waterway	Hamadera	Flash, Figure, Flag	Flash
	Sakai V	Vaterway	Sakai	Flash, Figure, Flag	Flash
I I 1. t	NI 1 . X	X7-1	Nanko	Flash, Figure, Flag	Flash
Hanshin	Ivanko v	Waterway	Nanko Daini	Electric light l	letter
	Part o	of Canal	Kizugawa Canal	Flash, Figure, Flag	Flash
	Kobe Cen	tral Passage	Koba, Kobe Daini	Electric light letter	
Mizushima	Inner Harbour Passage		Mizushima	Electric light letter	
	Hayatomonos	seto Waterway	Hayatomo	Electric light letter	
V		erway, Okudokai	Wil . D. M. d.		
Kanmon		udokai Passage,	Wakamatu Port Mouth,	Electric light l	letter
		su District	Makiyama, Nishima		
Kochi	Kochi V	Vaterway	Katsurahama, Urado	Flash, Figure, Flag	Flash
Sasebo	Sasebo '	Waterway	Kogosaki	Flash	
Naha	Naha W	Vaterway	Naha		

#### (Remark)

- 1. Nighttime signals may bee used during daytime due to the weather conditions, etc.
- 2. In the column "Method of signaling," "Flash" means signaling by flashing light; "Figure" means signaling by figure; "Flag" means signaling by flag; "Light letter" means signaling by light and "Electric light letter" means signaling by electric light dial.

Fig. 2-1

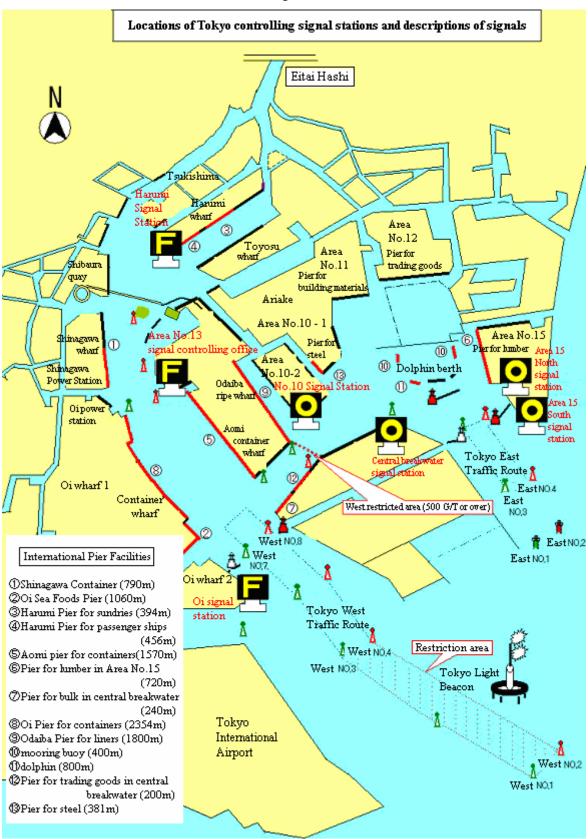


Table 2-2 (Tokyo West Passage)

	Signaling Method			
Names	Character system signal	Flashing light signal	Meaning	
	(day/night)	(day/night)		
Signal of entry into port	I (Flashing letter "I")	2 sec. 2 sec. 1 white flashing every 2 seconds	<ul><li>Incoming vessels may enter</li><li>Vessels of 500G/T or over are prohibited to go out</li></ul>	
Signal of departure from port	(Flashing letter "O")	2 sec. 2 sec. 1 red flashing every 2 seconds	Outgoing vessels my go out  500G/T or over are prohibited to enter	
Signal of free into port	F (Flashing letter "F")	3 sec. 3 sec.  1 red and 1 white flashing alternately every 3 seconds	<ul> <li>○ Vessels of 25000G/T (1000G/T or over for oil tankers) are prohibited to enter or go out. (Tokyo West Passage)</li> <li>○ Other vessels may enter or go out.</li> </ul>	
Prohibition signal	(Flashing letter "X")	6 sec.  3 red and 3 white flashing alternately every 6 seconds	OVessels are prohibited to navigate unless directed by Captain of the port.	
	<b>XI</b> (Alternating flashing of letters "X" and "I")		<ul> <li>○ Vessels in the Passage may navigate.</li> <li>○ Vessels of 500G/T or over outside the passage shall wait giving the way to vessels navigating in the passage.</li> <li>○ The signal will change to "I" soon.</li> </ul>	
Signal of	(Alternating flashing of letters "X" and "O")		<ul> <li>○ Vessels in the Passage may navigate.</li> <li>○ Vessels of 500G/T or over outside the passage shall wait giving the way to vessels navigating in the passage.</li> <li>○ The signal will change to "O" soon.</li> </ul>	
_	<b>XF</b> (Alternating flashing of letters "X" and "F")		<ul> <li>Vessels in the Passage may navigate.</li> <li>Vessels of 500G/T or over outside the passage shall wait giving the way to vessels navigating in the passage.</li> <li>The signal will change to "F" soon.</li> </ul>	
	(Flashing letter "X")		<ul> <li>Vessels in the Passage may navigate.</li> <li>All vessels outside the passage shall wait giving the way to vessels navigating in the passage.</li> <li>The signal will change to "X" soon.</li> </ul>	
		3 sec. 3 sec. 2 red flashing every 3 seconds	Comply with signal of other signal stations.	

As an example, the control in Nagoya passages (East, West and North) is shown in Fig. 2-2 and Tables 2-3 through 2-7.

Fig. 2-2

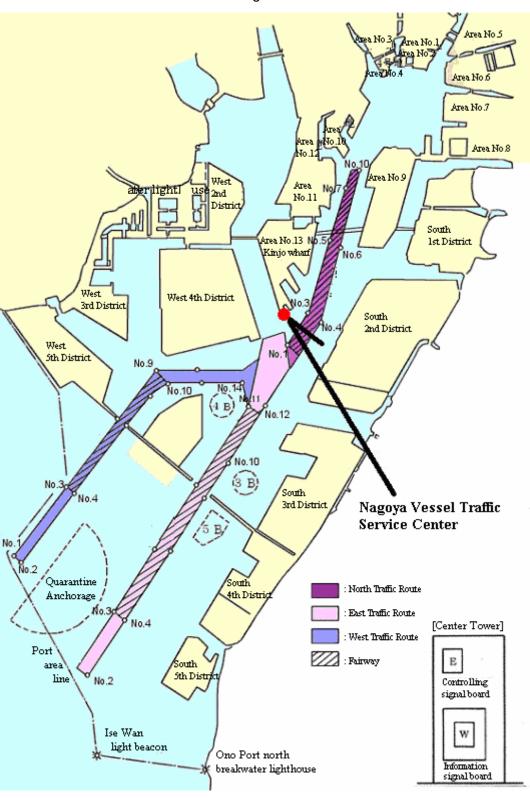


Table 2-3 Types and Meanings of Traffic Control Signals

# Explanation of terms -

Controlled vessels: of 40,000 GT or more (oil tankers: 5,000 GT or more)

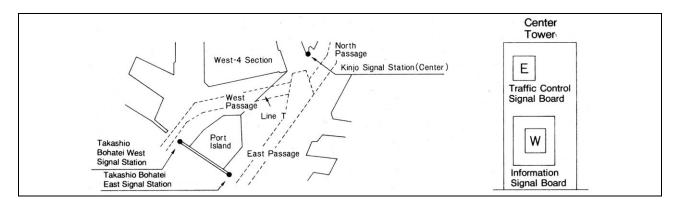
Vessels subject to control: Vessels of 500-40,000 GT (oil tankers less than 5,000 GT)

# East Waterway (Takashio Bohatei East Signal Station)

Waterway and Signal Station	Sig	Signal Type		Vessels Subject to Control	Vessels less than 500 GT	Remarks
	Entry signal	I Flashing	Entry OK Departure NG Departure OK Entry NG		Entry and Departure	
	Departure signal	O Flashing				
	Free signal	F Flashing	Entry and Departure NG	Entry and Departure OK	OK	
East Waterway	Prohibition signal	X Continuously lit		y and Departure No	G	only vessels specified by the Captain of the Port may enter and depart from the port.
Takashio Bohatei East	Advance notice signal  Advance signal  XI By-turn flashing ously lit  XF By-turn flashing ously lit  XF By-turn flashing ously lit  X Flashing	By-turn flashing				Signal will change into flashing "I" soon.
Signal Station		By-turn flashing	Entry and Departu However, vessels alread waterway may enter an from the port.	already into	Entry and Departure OK	Signal will change into flashing "O" soon.
					Signal will change into flashing "F" soon.	
		Entry and Departure NG However, vessels already in waterway may enter and depart from the port.		Signal will change into continuously lit "X" soon.		

Table 2-4 West Waterway (Takashio Bohatei West Signal Station)

Waterway and Signal	Sig	gnal Type	Controlled	Vessels Subject	Vessels less	Remarks
Station	518	shar Type	vessels to Control		than 500 GT	Remarks
	Entry signal Departure signal	I Flashing O Flashing	Depart Depart	y OK ure NG ure OK y NG		
	Free signal	F Flashing	Entry and Departure NG	Entry and Departure OK	Entry and	T. m. 1 1
West	Special signal	* * *		Departure OK	Line T is the line extending from southeast end of West-4 Section to the northeast end of port Island. (Refer to the figure below)	
Waterway  Takashio Bohatei East Signal	Prohibition signal	X Continuously lit	Entr	Only vessels specified by the Captain of the Port may enter and depart from the port.		
Station	Advance notice			eparture NG already into nter and depart	Entry and Departure OK	Signal will change into flashing "I" soon. Signal will change into flashing "O" soon.
	signal XF By-turn flashing ously lit				Signal will change into flashing "F" soon.	
	X Flashing		Entry and Departure NG However, vessels already in waterway may enter and depart from the port.			Signal will change into continuously lit "X" soon.



# Table 2-5 East Waterway, West Waterway (Kinjo Signal Station (Signal Board facing the northwest))

\*For vessels to depart from the Kinjo Zone

Waterway and Signal Station	Signal Type		Controlled vessels	Vessels Subject to Control	Vessels less than 500 GT	Remarks
	Entry signal	I Flashing	Departure NG  Departure OK			
	Departure signal	O Flashing				
	Free signal	F Flashing	Departure NG	Departure OK		
	Special signal	OE Flashing		Departure OK y Departure NG		This signal indicates which waterway (East or
East Waterway West Waterway Kinjo Signal Station Signal Board Facing Northwest [For Kinjo Zone]		OW Flashing	West Waterway Departure OK East Waterway Departure NG		Departure OK	West) vessels departing from the *Kinjo Zone may use.
		E Flashing	Departure NG	East Waterway Departure OK West Waterway Departure NG		This signal indicates which waterway (East or West ) vessels
		W Flashing		West Waterway Departure OK. East Waterway Departure NG		subject to control departing from *Kinjo Zone may use.
	Prohibition signal	X Continuously lit	Departure NG			only vessels specified by the Captain of the Port may depart from the port.
	Advance notice signal	XI By-turn flashing ously lit				Signal will change into flashing "I" soon.
		XO By-turn flashing ously lit			Donortura	Signal will change into flashing "O", or "OE" or "OW" flashing by turn soon.
		XF By-turn flashing ously lit	Departure NG		Departure OK	Signal will change into flashing "F" soon.
		XE By-turn flashing ously lit				Signal will change into flashing "E" soon.
		XW By-turn flashing ously lit				Signal will change into flashing "W" soon.
		X Flashing	Entr	y and Departure NC	3	Signal will change into continuously lit "X" soon.

<sup>\*</sup> The Kinjo Zone is the area north of the line extending from the south end of Kinjo Pier to the southeast end of the West-4 Section.

Table 2-6 North Waterway (Kinjo Signal Station except Signal Board facing the northwest)

Waterway and Signal Station	Signal Type		Controlled vessels	Vessels Subject to Control	Vessels less than 500 GT	Remarks
North Waterway Kinjo Signal Station (not including Signal Board facing the Northwest)	Entry signal	I Flashing	Depart	y OK ure NG	Entry and	
	Departure signal	O Flashing	Departure OK Entry NG Entry and Entry and		Departure OK	
	Free	F				
	signal	Flashing	Departure NG	Departure OK		
	Special signal	E Flashing	Entry and Departure NG	North Waterway Entry and Departure OK East Waterway Departure OK West Waterway Departure NG	ery and parture OK st Waterway parture OK st Waterway parture NG rth Waterway try and parture OK st Waterway parture OK st Waterway parture OK st Waterway parture OK	This signal indicates which waterway (Eest or West) vessels
		W Flashing		North Waterway Entry and Departure OK West Waterway Departure OK East Waterway Departure NG		subject to control departing from the port via the North Waterway may use.
	Prohibition signal	X Continuously lit	Entry and Departure NG			only vessels specified by the Captain of the Port may enter and depart from the port.
	Advance notice signal	XI By-turn flashing ously lit XO By-turn flashing ously lit XF By-turn flashing ously lit XE By-turn flashing ously lit XW By-turn flashing ously lit XW By-turn flashing				Signal will change into flashing "I" soon.  Signal will change into flashing "O" soon.  Signal will change into flashing "F" soon.  Signal will change into flashing "E" soon.  Signal will change into flashing "E" soon.  Signal will change into flashing "W" soon.  Signal will change into flashing "W" soon.
		X flashing				into continuously lit "X" soon.

Table 2-7 North Waterway (Nagoya North Signal Station)

Waterway and Signal Station	Signal Type		Controlled vessels	Vessels Subject to Control	Vessels less than 500 GT	Remarks
Station	Entry signal	I Flashing	Depart	y OK ure NG	Entry and	
	Departure signal	O Flashing	Departure OK Entry NG		Departure	
	Free	F	Entry and	Entry and	OK	
North Waterway Nagoya North Signal Station	signal	Flashing	Departure NG	Departure OK		
	Special signal	E Flashing	Entry and Departure NG	North Waterway Entry and Departure OK East Waterway Departure OK West Waterway Departure NG	Entry and Departure OK	This signal indicates which waterway (East or West) vessels
		W Flashing		North Waterway Entry and Departure OK West Waterway Departure OK East Waterway Departure NG		subject to control departing from the port via the North Waterway may use.
	Prohibition signal	X Continuously lit	Entry and Departure NG			Only vessels specified by the Captain of the Port may enter and depart from the port.
	Advance notice signal	XI By-turn flashing ously lit XO By-turn flashing ously lit XF By-turn flashing ously lit XE By-turn flashing ously lit XW By-turn flashing ously lit XW By-turn flashing ously lit	Entry and Departure NG However, vessels already into waterway may enter and depart from the port.  Entry and Departure OK  Entry and Departure NG However, vessels already in waterways may enter and depart from the port.		Departure OK	Signal will change into flashing "I" soon.  Signal will change into flashing "O" soon.  Signal will change into flashing "F" soon.  Signal will change into flashing "E" soon.  Signal will change into flashing "W" soon.
		X Flashing			Signal will change into continuously lit "X" soon.	

#### 3. Maritime Traffic Safety Law

#### (1) Purpose of this law

The purpose of this law is to ensure the safety of ships' traffic by prescribing special modes of navigation and by effecting control for preventing danger to ships' traffic in the traffic congested areas.

# (2) Sea areas where the law is applicable

The sea areas where this law is applicable are Tokyo Wan (Bay), Ise Wan and Seto Naikai (Seto Inland Sea). (See Fig. 2-3)

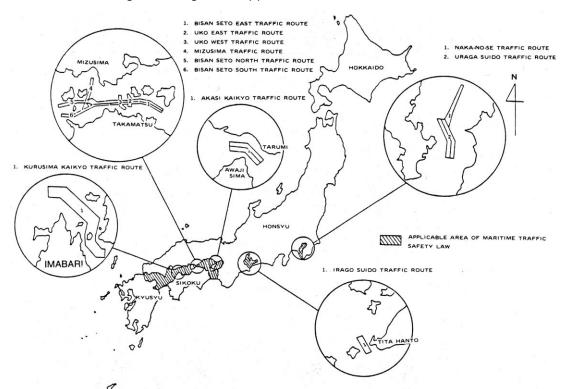


Fig. 2-3 Figure of Applicable Area and Traffic Route

# Marine traffic centers receiving and providing notification of traffic route

Traffic route	Authorities		Address	
		Receiving notification	TEL:046-843-8622~4 FAX:046-844-4720	
Uraga Suido, Nakanoseto	Tokyo Bay marine traffic center	Marine traffic information	Fixed time and special broadcasting:  1,665kHz (Japanese) 2,019kHz (English)  Telephone service:  046-843-0621 (Huge vessels entry, etc.)  046-844-4521 (Weather)  FAX service: 046-844-2055  Internet service:  http://www6.kaiho.mlit.go.jp/tokyowan/imode/ http://www6.kaiho.mlit.go.jp/tokyowan/ezweb/ http://www6.kaiho.mlit.go.jp/tokyowan/jsky/	4-1195 Kamoi, Yokosuka-shi, 〒239-0813
		Receiving notification	Telephone: 0531-34-2443 FAX: 0531-34-2444	
Irago Suido	Ise Bay marine traffic center	Marine traffic information	Fixed time and special broadcasting: 1,665kHz (Japanese) 2,019kHz (English) Telephone service: 0531-34-2666 (Huge vessels entry, etc.) 0531-34-2333 (Weather) FAX service: 0531-34-2888 Internet service: http://www6.kaiho.mlit.go.jp/isewan/ http://www6.kaiho.mlit.go.jp/isewan/imode/ http://www6.kaiho.mlit.go.jp/isewan/ezweb/ http://www6.kaiho.mlit.go.jp/isewan/jsky/	2814-38 Furuyama, Irako-cho, Tahara-shi, Aichi-ken 〒441-3624
Akashi Kaikyo	Osaka Bay marine traffic center	Receiving notification FAX: 0799-82-3030/3032  Marine Fixed time and special broadcasting: 1,651kHz (Japanese) 2,019kHz (English) information Telephone service: 0799-82-3044 (Huge vessels entry schedule etc. for the day) 0799-82-3043 (Huge vessels entry etc. for the following day) 0799-82-3040 (Weather) FAX service: 0799-82-3046		914-2 Nojimaezaki, Awaji-shi, Hyogo-ken 〒656-1725

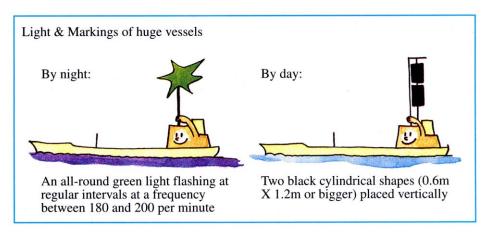
			T	
			Internet service:	
			http://www6.kaiho.mlit.go.jp/osakawan/	
			http://www6.kaiho.mlit.go.jp/osakawan/imode/	
			http://www6.kaiho.mlit.go.jp/osakawan/ezweb/	
			http://www6.kaiho.mlit.go.jp/osakawan/jsky/	
		Receiving	TEL: 0877-49-2220~1	
		notification	FAX: 0877-49-1413/1156	
		Marine	Fixed time and special broadcasting:	
Bisan Seto	Bis	traffic	1,651kHz (Japanese) 2,019kHz (English)	
East,	an (	information	Telephone service: 0877-49-5166 (Huge	
Uko East,	Setc		vessels entry schedule etc. for that day)	3810-2
Uko West,	me		0877-49-5167 (Huge vessels entry etc.	Aonoyama,
Bisan Seto	rine		for the following day)	Utatsu-cho,
North,	e tra		0877-49-1041 (Weather)	Ayaka-gun,
Bisan Seto	ffic		FAX service: 0877-49-1199	Kanagawa-ken
South,	Bisan Seto marine traffic center		Internet service:	〒769-0200
Mizushima	ıter		http://www6.kaiho.mlit.go.jp/bisan/	
			http://www6.kaiho.mlit.go.jp/bisan/imode/	
			http://www6.kaiho.mlit.go.jp/bisan/ezweb/	
			http://www6.kaiho.mlit.go.jp/bisan/jsky/	
		Receiving	TEL: 0898-31-9000	
	Ku	notification	FAX: 0898-31-9666	
	Kurushima Ka	Marine	Fixed time and special broadcasting:	
	ima	traffic	1,651kHz (Japanese) 2,019kHz (English)	2.5.100
	ı Ka	information	Telephone service:	2-5-100
17	ıiky		0898-31-3636 (Huge vessels entry etc.)	Minato-cho,
Kurushima	o m		0898-31-8177 (Weather)	Imabari-shi,
Kaikyo	arin		FAX service: 0898-31-4646	Aichi-ken
	ikyo marine traffic center		Internet service:	〒794-0003
	affi		http://www6.kaiho.mlit.go.jp/kurushima/	
	се.		http://www6.kaiho.mlit.go.jp/kurushima/imode/	
	nter		http://www6.kaiho.mlit.go.jp/kurushima/ezweb/	
	•		http://www6.kaiho.mlit.go.jp/kurushima/jsky/	

(Remark) If you have any questions, please ask authorities above or regional coast guard headquarters.

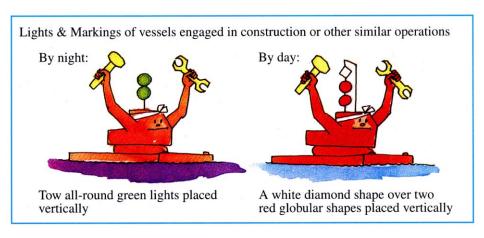
#### (3) Vessels which receive special treatment in application of the Law

#### ① Huge Vessels are:

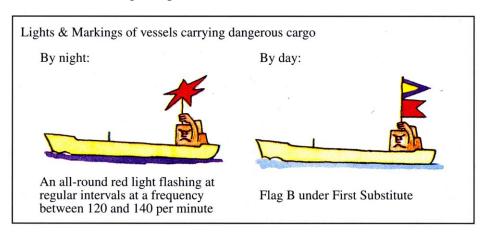
Vessels whose length is 200 metres or more. In navigating traffic routes, they must give advance notification to the maritime Safety Agency and obey instruction given by the same Agency.



- ② Vessels engaged in fishing or other operations are:
  - a. Vessels which are engaged in fishing with nets, lines or other fishing apparatus with restrict maneuverability and which exhibit the lights markings required by the Law for Preventing Collisions at Sea.
  - b. Vessels which are engaged in construction or other similar operations with permission, which are restricted in her ability to keep out of the way of another approaching vessel from the nature of her work and which exhibit the following lights (by night) or markings (by day).



- ③ Vessels carrying dangerous cargo are:
  - a. Vessels of 1,000 gross tons or more which are carrying inflammable liquids or liquefied gases in bulk;
  - b. Vessels of 300 gross tons or more which are carrying 80 tons or more of ammunition or 200 tons or more of organic peroxides.

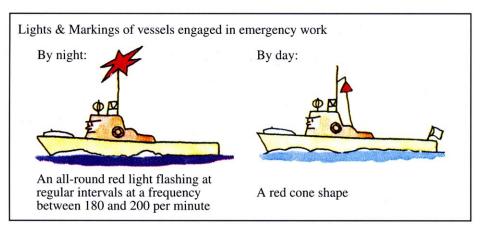


## 4 Vessels towing or pushing long objects are:

Vessel towing or pushing vessels, rafts or other objects, with total length (the distance between the bow of the towing vessel and the rear edge of the object towed or the distance between the stern of the pushing vessel and the fore edge of the object being pushed) being 200 meters or more.

#### ⑤ Vessels engaged in emergency work are:

Vessels engaged in emergency work, such as fire-fighting operations, rescue of marine accidents, prevention or removal of marine pollution or controlling of crimes.



#### (4) Rules in Traffic Routes

- ① Keeping out of the way of other vessels
  - (a) Any vessel other than these engaged in fishing or other operations entering, leaving or crossing a traffic route, should keep out of the way of other vessel navigating the traffic route;
  - (b) Any vessel engaged in fishing or other operations entering, leaving or crossing a traffic route or vessels staying still in the traffic route should keep out of the way of a huge vessel navigating the traffic route;
  - (c) At the intersection or junction of a traffic route, any vessel other than a huge vessel, so as to involve risk of collision with the huge vessel navigating the traffic route, should keep out of the way of the huge vessel.
  - (d) Any vessel other than a huge vessel or a vessel engaged in fishing or other operations, which navigate in Mizusima Traffic Route should keep out of the way of a vessel navigating in Bisan Seto North Traffic Route;
  - (e) Any vessel other than these mentioned in paragraph a through paragraphed above, should observe the rules stipulated in the Law for Preventing Collisions at Sea.
    - NOTE: Huge Vessels are: Vessels whose length is 200 metres or more.
- ② Obligation to navigate traffic routes

  Any vessel whose length is 50 metres or greater should navigate the traffic route along the course of the route in the area where there is such traffic route.
- 3 Restrictions on the speed of a vessel

Any vesselshall not navigate at a speed exceeding 12 knots in all areas of Uraga Suido Traffic Route, Naka-no-Se Traffic Route, Irago Suido Traffic Route and Mizusima Traffic Route, and in the sections of Bisan Seto East Traffic Route, Bisan Seto North Traffic Route and South Traffic Route, which are shown in the diagrams.

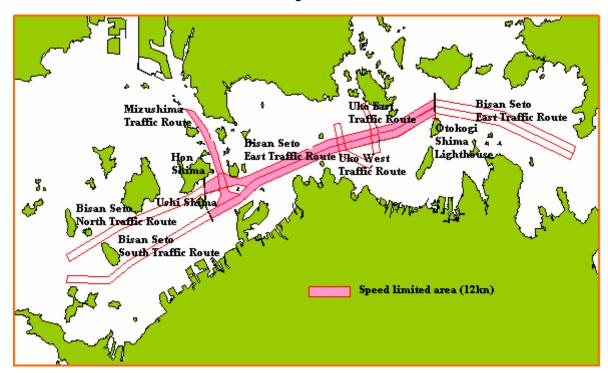
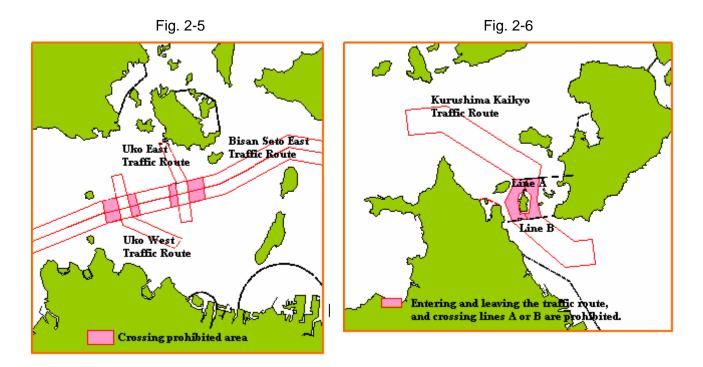


Fig. 2-4

# ④ Restrictions on entering or leaving or crossing the Traffic Route No vessel is allowed to enter, go outside or cross the traffic routes in the sections of Bisan Seto East Traffic Route or Kurusima Kaikyo Traffic Route, which are shown in the

diagrams.



#### (5) Indication of destination

Where vessels of 100 gross tons or over equipped with a whistle intend to enter, leave or cross a traffic route, they should indicate their destination by giving signal shown below. (Refer to Fig. 2-7, 2-8, 2-9, 2-10, 2-11, 2-12)

Fig. 2-7

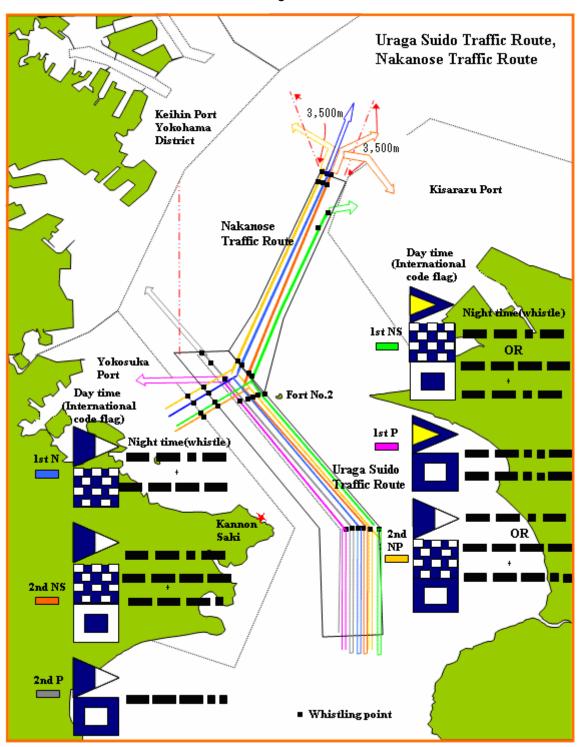


Fig. 2-8

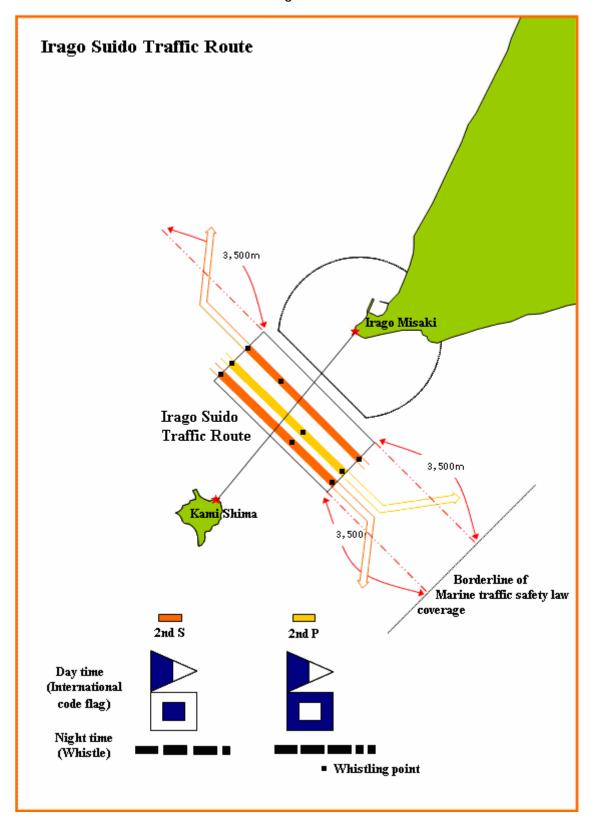


Fig. 2-9

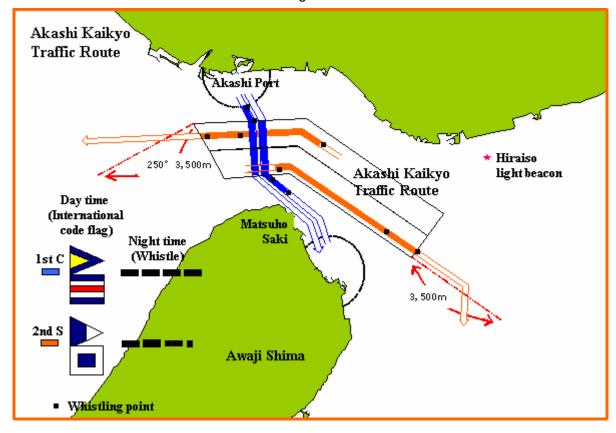


Fig. 2-10

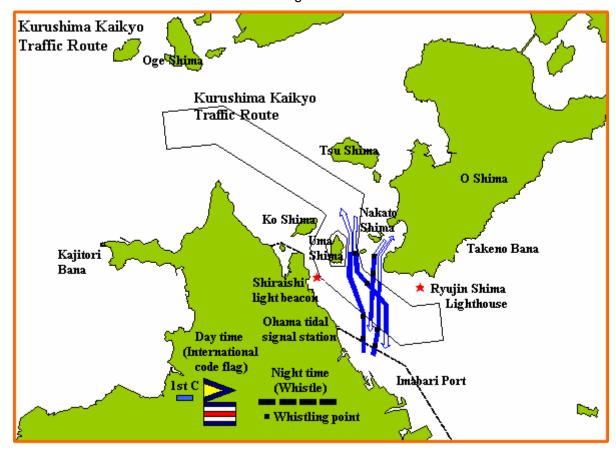


Fig. 2-11

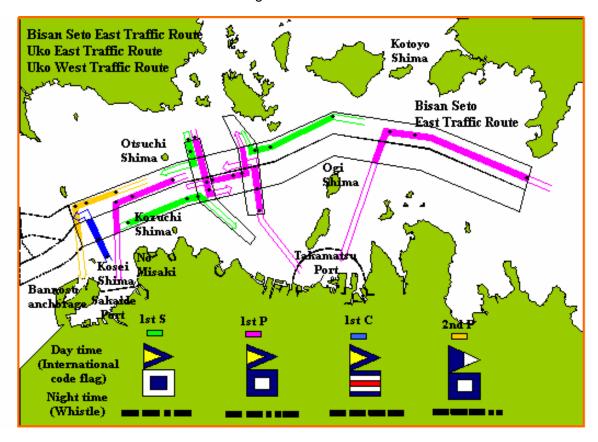
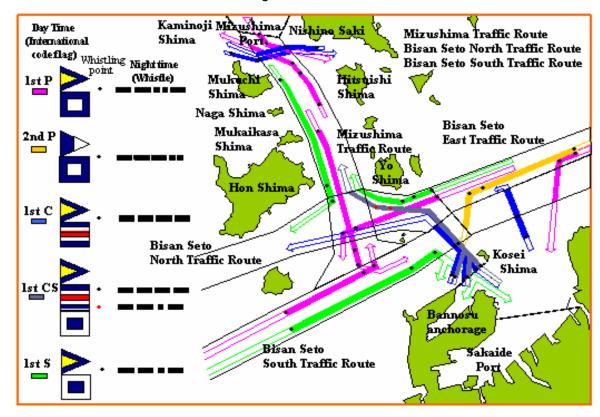


Fig. 2-12



#### 6 Signaling in the Case of Overtaking Any Other Vessel

An overtaking vessel equipped with a whistle, shall, when intending to overtake any other vessel in a traffic route, give the following signal provided that this should not apply to the case where overtaking signals prescribed in the Law for Preventing Collisions at Sea are given:

- a. When intending to navigate on the starboard side of the other vessel, they should give one prolonged and one short blasts in succession on the whistle;
- b. When intending to navigate on the portside, they should give one prolonged and two short blasts in succession on the whistle.
- 7 Method of crossing Traffic Routes

Any vessel intending to cross a traffic route shall cross the route promptly at angles as close as possible to the right angles with the traffic route. Vessels crossing traffic routes should cross promptly at angles as close as possible to right angles to the traffic routes.

Prohibition of anchoring

No vessel is allowed to anchor in the traffic routes. Mooring to vessels at anchor will be regarded as anchoring.

- Traffic separation
  - a. Within Uraga Suido Traffic Route, Akasi Kaikyo Traffic Route and Bisan Seto East Traffic Route, all vessels should navigate in that portion of the traffic routes which lies on the starboard side of the central line of such routes. (Refer to Fig. 2-13, 2-14, 2-15)

Fig. 2-13 Fig. 2-14

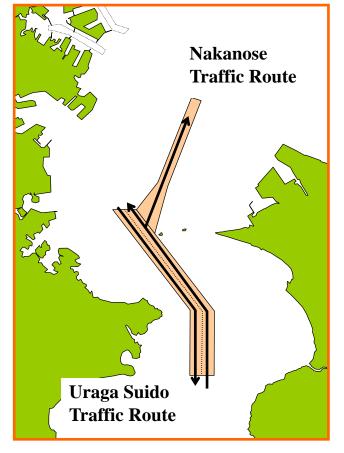
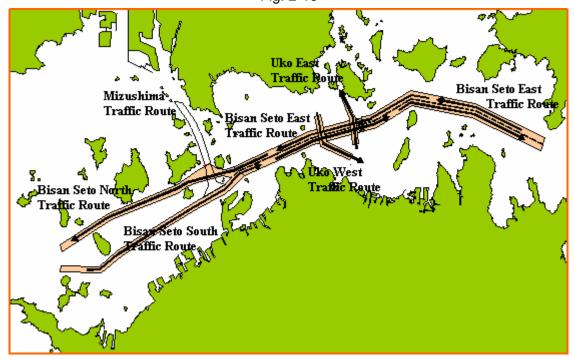




Fig. 2-15



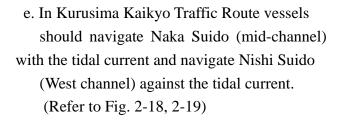
- b. In Naka-no-Se Traffic Route, one-way traffic is in effect in the northern direction; in Uko East Traffic Route one-way traffic in the northern direction; in Uko West Traffic Route one-way in the southern direction, in Bisan Seto North Traffic Route one-way in the western direction; and in Bisan Seto South Traffic Route one-way traffic in the eastern direction.
- c. In Irago Suido Traffic Route,
- (a) Vessels should keep right side of the traffic route as much as possible.
- (b) As a rule, huge vessels and 2nd class vessels (vessels of 130m and longer and less than 200m in length) may encounter within the traffic route.

  Fig. 2-16

However, when one of these vessels is loading dangerous materials, when the traffic route is expected to be closed due to the operational condition of fishing boats etc., navigating width of the route becomes below two-third of the usual width, sea disasters occur inside or around the traffic route, or it becomes difficult to know the movement of vessels inside and around the traffic route due to the trouble with radar equipment, Japan Coast Guard will instruct these vessels to wait outside the traffic route by signaling etc. Then the vessels must follow the instruction. (For signals in this case, see "(6) Traffic control signals in Irago Suido Traffic Route and Mizushima Traffic Route.")

Irago Suido Traffic Route

- d. In Mizushima Traffic Route,
- (a) Vessels should keep navigating in the right side of the traffic route as much as possible.
- (b) In order to avoid the danger when a huge vessel and other vessel (a vessel of 70m or over and less than 200m in length) encounter within the traffic route, Japan Coast Guard will instruct the other vessel to wait outside of the traffic route by signaling or other method. Then the vessel must follow the instruction. (For signals in the case, see "(6) Traffic control signals in Irago Suido Traffic Route and Mizushima Traffic Route.")



Mizuskima
Traffic Route

Bisan Seto North
Traffic Route

Bisan Seto South
Traffic Route

Fig. 2-18

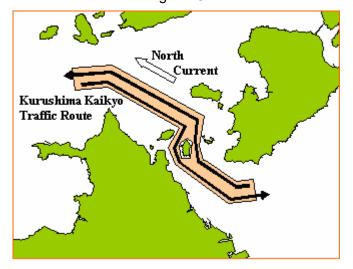
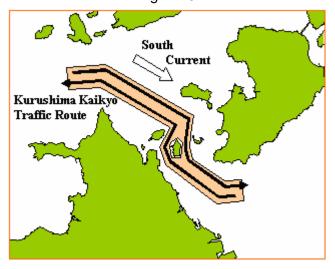


Fig. 2-19



(5) Notification Concerning Navigation of Huge Vessels or Other Particular Vessels and Instructions to be Given to These Vessels

When huge vessels, vessels carrying dangerous cargo or vessels towing or pushing long objects intend to navigate a traffic route, they shall in principle notify the Commander of a competent Regional Japan Coast Guard Headquarters, Chief of a Japan Coast Guard Office or of Vessel Traffic Service Center, including the estimated time of navigation of the traffic route.

(Note) Further details are given in Article 22 of the Maritime Traffic Safety Law, Article 13, 14 of the same Regulation and Japan Coast Guard Notification No. 109 of 1973.

#### ① Time of notification

Time of notification	Type of vessel
	●Huge vessel
By noon of the day prior to the estimated date of	● Vessel of 25,000 gross tons or more carrying
entering the traffic route.	liquefied gas
	<ul> <li>Vessel towing or pushing a long object</li> </ul>
By 3 hours before the estimated time of entering	Nassal garwing dangarous garge
the traffic route.	• Vessel carrying dangerous cargo

#### Note:

- •In Uraga Suido and Naka-no-se Traffic Routes, vessels of 10,000 GT or more should follow the notification procedure of huge vessels.
- •In Irago Suido Traffic Route, vessels of 10,000 GT or more or vessels of 130m or more in length should follow the notification procedure of huge vessels, and vessels from 3,000 GT to less than 10,000 GT should follow that of vessels carrying dangerous cargo.
- In Akashi Kaikyo Traffic Route, vessels of 10,000 GT or more and tug/push boats from 150m to less than 200m in length should follow the notification procedure of huge vessels. Vessels from 3,000 GT to less than 10,000 GT should follow the notification procedure of vessels carrying dangerous cargo.
- •In the traffic routes inside Bisan sea area, vessels of 10,000 GT or more should follow the notification procedure of huge vessels. Vessels from 3,000 GT to less than 10,000 GT (when navigating Mizushima Traffic Route, vessels of 70m or more in length) should follow the notification procedure of vessels carrying dangerous cargo.
- •In Kurushima Kaikyo Traffic Route, vessels of 10,000 GT or more should follow the notification procedure of huge vessels. Vessels from 3,000 GT to less than 10,000 GT and tug/push boats from 100m to less than 200m should follow the notification procedure of vessels carrying dangerous cargo.

# (b) Matters to be notified

"Notification of Traffic Route" is to be addressed according to the following.

Items
(1) Name of address
(2) Name and gross tonnage of the vessel
(3) Length of the vessel
(4) Maximum draught
(5) Types of dangerous cargo and amount of cargo by each type (vessels carrying dangerous cargo only)
(6) Total length of tug boat including the tugged objects or total length of push boat including the pushed objects (vessels towing or pushing long objects only)
(7) Description of object(s) being tugged or pushed (vessels towing or pushing long objects only)
(8) Port of destination (only when destination has been fixed)
(9) Name of the traffic route and the section to be navigated
(10) Scheduled date and time (shown in 24 hours) of entry to the traffic route
(11) Scheduled date and time (shown in 24 hours) of leaving from the traffic route
(12) Call sign or call name of the ship radio station (vessels having ship radio station only)
(13) Method of communication with Japan Coast Guard (vessels without ship radio station only)
(14) Name and address of transmitter (when a transmitter is required)
(Remarks) In case of having standing by vessels equipped for fire-fighting operations, give the names of related vessels and users of the vessels.

# Name of Traffic Routes and Name of Address are to be notified according to the following.

Name of Traffic Route	Abbreviation	Name of Address	Abbreviation	
Uraga Suido Traffic Route	URAGA	Chief of Tokyo Wan Vessel	TOKYO WAN	
Naka-no-Se Traffic Route	NAKANOSE	Vessel Traffic Service Center	IOKIO WAN	
Irogo Suido Troffio Douto	IRAGO	Chief of Ise Wan Vessel Traffic	ISE WAN	
Irago Suido Traffic Route	IRAGO	Advisory Service Center	ISE WAIN	
Akasi Kaikyo Traffic Route	AKASI	Chief of Osaka Wan Vessel Traffic	OSAKA WAN	
Akasi Kaikyo Hailic Koute	AKASI	Advisory Service Center	USAKA WAN	
Bisan Seto East Traffic Route	BISAN EAST			
Uko East Traffic Route	UKO EAST			
Uko West Traffic Route	UKO WEST	Chief of BISANSETO Vessel	BISANSETO	
Bisan Seto North Traffic Route	BISAN NORTH	Vessel Traffic Service Center		
Bisan Seto South Traffic Route	BISAN SOUTH			
Mizusima Traffic Route	MIZUSIMA			
		Chief of KURUSIMA Kaikyo		
Kurusima Kaikyo Traffic Route	KURUSIMA	Vessel Vessel Traffic Service	KURUSIMA	
		Center		

③ Method of Notification of traffic routes.

Notification should be made by one of following methods

(a) In the case of radio communications

Notification may be sent directly to the coastal radio station of the Japan Coast Guard given in the following table.

Name of coastal radio station	YOKOHAMA NAGOYA		KOBE	HIROSIMA	
Call sign	JGC 004310301	JNT 004310401	JGD 004310501	JNE 004310601	
Call name	Yokohama Coast	Nagoya Coast Guard	Kobe Coast Guard	Hiroshima Coast	
Can name	Guard Radio	Radio	Radio	Guard Radio	
Calling	156.8 MHz (16ch)				
frequency		2,189.	5 kHz		
Working	156.6 MHz (12ch)				
	2.150 kHz				
frequency	2,177 kHz				
			AKASI, BISAN EAST		
Traffic routes	URAGA	IRAGO	UKO EAST, UKO WEST		
	NAKANOSE	IKAUU	BISAN NORTH, BISAN SOUTH		
			MIZUSIMA, KURUSIMA		

If direct communication with each radio station in the table above is not available, another radio station in the same table or radio stations of the Japan Coast Guard listed in the table below may be used.

Name of coastal radio station	HOKKAIDO	SIOGAMA	МОЛ	KAGOSIMA	OKINAWA			
Call sign	JNL 004310101	JNN 004310201	JNR 004310701	JNJ 004311001	JNB 004311101			
Call name	Hokkaido Coast	Siogama Coast	Moji Coast	Kagosima Coast	Okinawa Coast			
Call name	Guard Radio	Guard Radio	Guard Radio	Guard Radio	Guard Radio			
frequency			156.8 MHz (16ch)					
Working		2,189.5 kHz						
	156.6 MHz (12ch)							
frequency	2,150 kHz							
	2,177 kHz							

#### (b) Written notification

Written notification made according to the annexed table may be brought to regional coast guard headquarters, coast guard supervision offices, coast guard offices, coast guard aircraft bases, coast guard stations or vessels traffic advisories. It may also be sent to the Traffic Route Department by mail or fax.

(c) Notification by telegram

Submit directly to the Traffic Route Department.

(d) Notification by telephone

Call directly to the Traffic Route Department. However, this is only done by captain of the vessel.

(e) Notification by electronic information processing system

Contact directly to the Traffic Route Department for each traffic route to be navigated.

\* Notification by written document or by telephone is accepted only when the transmitter who transmits a message from Japan Coast Guard to the captain of a huge vessel can be chosen.

#### (b) In the case of written notifications

Written notification may be submitted as shown in the Annexed Table and sent directly to the office

Annexed Table	
Huge vessel	
	Notification of estimated date
	and time of navigation.
	Date
(1)	Date
Name of address	
Name of address	Name of master
	Name of master
	Name of person who forwards this
	notification and; his address
	notification and, his address
I hereby notify you of the following in acco	ordance with the provision of Article 22 of the
Maritime Traffic Safety Law:	
-	(2) I and afair (Uran and a sale)
(2) Name and gross tonnage of the vessel	(3) Length of vessel (Huge vessels only)
(7) Th. (1)	(4) Maximum draught (Huge vessels only)
(5) Types of dangerous cargo and amount of each ty	ype
(Vessel carrying dangerous cargo only)	1.1
(6) Distance between the bow of the towing vessel an	<b>U</b>
being to wed or distance between the stern of the p	
end of the object being pushed. (Applies only to ve	essels towing or pusning
objects).	
(7) Description of the object (Applies only to vessel towing or pushing objects)	
(8) Port of destination (Applies only to vessel for whi	iah
destination has been fixed)	ICII
Name of traffic route Name of traffic routes (9)	(10), (11)
Section to be navigated and time of entry or departure	
(Time should be denoted by 2400 hrs system)	Estimated date and time of entry
(Time should be denoted by 2400 hrs system)	Estimated date and time of departure
(12), (13) Method of communications with MSA (Ca	•
sign or call name, if a vessel has ship radio station)	
(14) Name and address of message conveyor	,
Remarks	

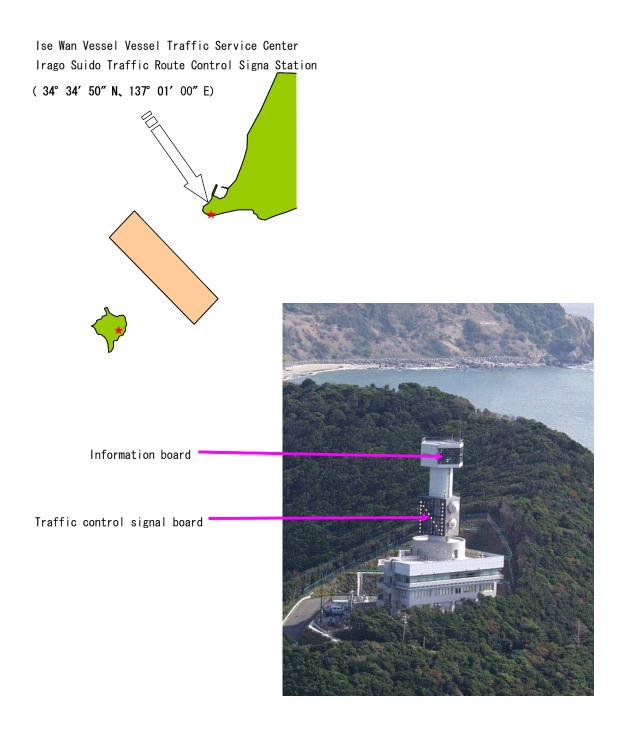
Notes: 1. The size of paper for this form shall be A-4 (approximately 30cm X 22cm) of the Japan Industrial Standard.

- 2. Sections of the traffic route to be navigated shall be entered as "entire area" or "from Southern entry to NO. 4 Buoy" for example.
- 3. Description of the object in (7) above shall include information on type, length, width, height, etc. of the object.

(Note) In the "Remarks" column, give the names of related vessels and users of the vessels if there are vessels equipped for fire-fighting operations standing by.

(6) Navigation Control Signals at Irago Suido Traffic Route and Mizusima Traffic Route Signalling requiring a big vessel other than a huge vessel to wait outside Irago Suido Traffic Route when the huge vessel navigates in either of such traffic routes, shall be done in accordance with the shapes or lights mentioned in the following table, and by the control signal station ashore (However, in case of signalling equipment failure etc. at the signal station, signalling will be done by vessels):

Fig. 2-20 Irago Suido Traffic Route



#### a. Traffic Control

Traffic control is carried out at the Irago Suido Traffic Route Control Signal Station (Fig. 2-20) in Irago Suido Traffic Route.

Table 2-8

With the following signals, Ise Wan Vessel Vessel Traffic Service Center instructs all the vessels with the total length of 130m or more and less than 200m to wait outside the Irago Suido Traffic Route for a huge vessel to pass. In principle, the waiting signal is lit 15 minutes before the huge vessel enters the Route till its passing through it, for both north and south directions.

Signals		Meaning		
N	Letter N flashing	All the vessels with the length of 130m or more and less than 200m going southeast direction through the Irago Suido Traffic Route should wait outside the route.		
<u></u>	Letter S flashing	All the vessels with the length of 130m or more and less than 200m going northwest direction through the Irago Suido Traffic Route should wait outside the route.		
NS	Letter N and S flashing alternately	All the vessels with the length of 130m or more and less than 200m going through the Irago Suido Traffic Route in any direction should wait outside the route.		

### b. Information Signals

Movement of huge vessels within Irago Suide Traffic Route are indicated on the electrical signal board.

Signals		Meaning		
	Flashing every 4 second	A huge vessel enters into the route (heading southward) within an		
	Trasming every 4 second	hour.		
	Flashing every 2 second	A huge vessel enters into the route (heading southward) within 15		
	Plasming every 2 second	min.		
	Flashing every 4 second	A huge vessel enters into the route (heading northward) within an		
<i></i>	Trasming every 4 second	hour.		
	Flashing every 2 second	A huge vessel enters into the route (heading southward) within 15		
	Trasming every 2 second	min.		
<del>)</del>	Flashing every 8 second	A huge vessel enters into the route (heading southward) within		
<del></del>		about 15 min and another huge vessel enters into the route (heading		
- <del>-</del>	<b>'</b> , ', `	northward) within about 15 min. after its passing through the Route		
		A huge vessel enters into the route (heading northward) within		
<del>(</del>	Flashing every 8 second	about 15 min and another huge vessel enters into the route (heading		
· · · · · · · · · · · · · · · · · · ·	'←', '←', '→'	southward) within about 15 min. after its passing through the		
		Route.		

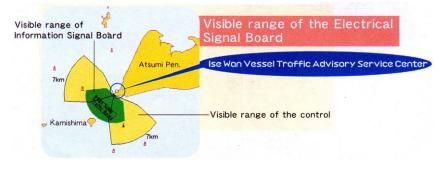
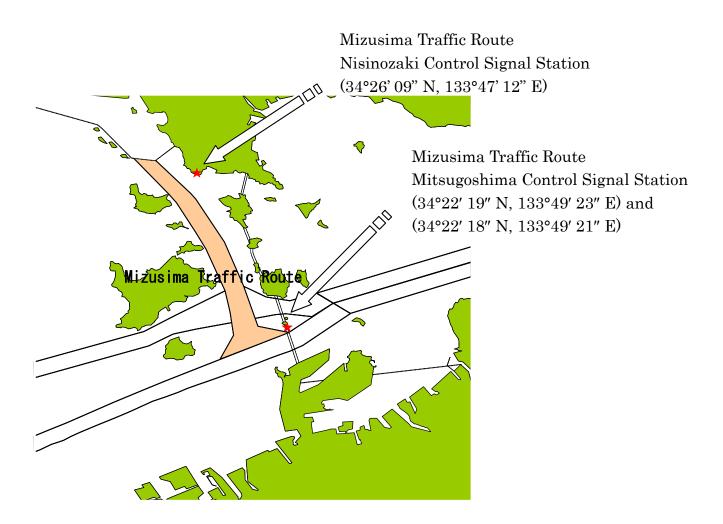


Fig. 2-21 Mizusima Traffic Route



#### a. Traffic control

Traffic control is carried out at the Mizusima Traffic Route Mitsugosima Control Signal Station (Fig. 2-21) in Mizusima Traffic Route. (See Table 2-9)

Table 2-9 Control Signals Used at the and the Mitugosima Control Signal Station

Method of signalling		Meaning of signal		
N	Flashing of the letter "N"	Vessels of 70 meters or more in length (excluding huge vessels) intending to navigate southward through Mizushima T. R. are required to wait outside of the traffic route.		
	Flashing of the letter "S"	Vessels of 70 meters or more in length (excluding huge vessels) intending to navigate northward through Mizushima T. R. are required to wait outside of the traffic route.		

Note: Vessels longer than 70 meters

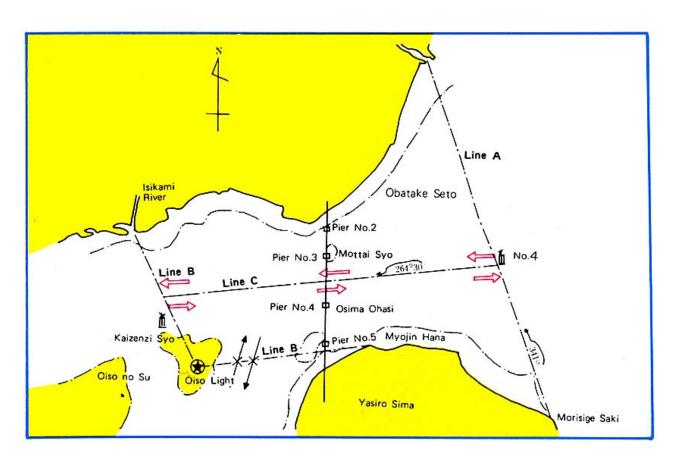
#### b. Information service

Information service on huge vessels in the Mizusima Traffic Route is provided either by regular hourly broadcasts or by telephone. For details, see.

#### (7) Notification Concerning Designation of Tracks in Obatake Seto

(JCG Notification No. 59 of 1975)

- Article 1. A vessel of five gross tons or more shall observe the following items when she intends to cross the line drawn at 341° from Morisige Saki (33° 56' 52" N, 132° 12' 08" E) to the shore (hereinafter referred to as "Line A") and thence cross the line joining Myojin Hana (33° 57' 07" N, 132° 11' 26" E), Oiso Light (33° 57' 03" N, 132° 10' 47" E) and the extremity of the right bank of the Isikami River mouth (hereinafter referred to as "Line B").
- 1. The vessel shall navigate in the sea area north of the line drawn at 264° 30' from the point 940 meters 341° from Morisige Saki to Line B (hereinafter referred to as "Line C"). In case the vessel does not meet any other vessels in the sea area, near the bridge piers of Osima Ohasi, this shall not apply to the vessel in the sea area.
  - 2. The vessel shall navigate between bridge pier No. 3 and No. 4 of Osima Ohasi.
- Article 2. A vessel of five gross tons or more shall observe the following items when she intends to cross the Line B and thence cross the Line A.
- 1. The vessel shall navigate in the sea area south of the Line C, In case the vessel does not meet any other vessels in the sea area near the bridge piers of Osima Ohasi, this shall not apply to the vessel in the sea area.
  - 2. The vessel shall navigate between bridge pier No. 3 and No. 4 of Osima Ohasi.
  - 3. The vessel shall navigate through the sea area north of Kaizenzi Syo.



## Chapter 2 Pilotage

#### 1. Pilotage System

Tokyo Bay, Ise Bay and Osaka Bay provide the services of a bay pilot, while the Seto Inland Sea provides an Inland Sea pilot, and other major ports provide harbor pilots. It is therefore strongly advised that masters of vessels proceeding in not only compulsory but also non-compulsory pilotage areas should take advantage of the service of a pilot to prevent casualties at sea.

#### 2. Pilotage District

A water area where the pilot provides his service is called pilotage area, and it is set in such water areas as harbor, bay, and inland sea where many oceangoing ships enter/depart, in accordance with a government ordinance based on the Pilotage Law (Enforcement Ordinance of Pilotage Law). Presently there are 39 pilotage districts which are classified into "pilotage district set for each water area of a port such as Kushiro" and "wide pilotage district set in water areas of bay/strait/inland sea including multiple ports such as Tokyo Bay".

#### 3. Compulsory Pilotage District

Of the pilotage districts, there are ports and water areas where there is a ship traffic congestion, topography and waterway are complicated, or weather and tide conditions are severe. In such areas, the occurrence possibility of sea disasters is high, and from the view-points of maintaining the order of sea traffic and protecting the port facilities and water-area environment, pilot boarding is mandatory for ships of a certain level or higher in accordance with the Pilotage Law instead of entrusting the captain to judge on taking on a pilot or not.

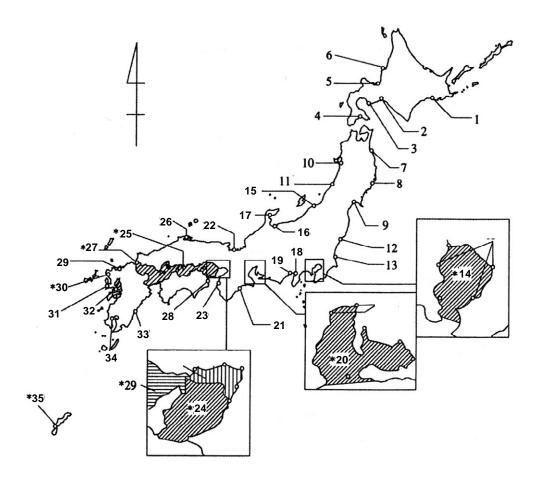
Such ports and water areas are called "compulsory pilotage districts" and such a system is called "compulsory pilotage system".

Presently 10 compulsory pilotage districts are set in port areas and water areas, and the districts and object ships are as follows.

	District	Object ship
G 1	Yokosuka Sasebo Naha	Foreign ships with gross tonnage of 300t or more, Japanese ships with gross tonnage of 300t or more engaged in international voyage, Japanese ships with gross tonnage of 1000t or more not engaged in international voyage
Compulsory district set in port area	Yokohama-Kawasaki	Ships with gross tonnage of 3000t or more, ships with gross tonnage of less than 3000t loaded with dangerous goods
port area	Kanmon (Kanmon Strait)	Ships with gross tonnage of 10000t or more, ships with gross tonnage from 3000t to 10000t that do not pass Kanmon District area, ships with gross tonnage of less than 3000t loaded with dangerous goods
Compulsory district set in water area	Tokyo Bay, Ise-Mikawa Bay, Osaka Bay, Bisan-Seto (including Mizushima Port), Kurushima Strait	Ships with gross tonnage of 10000t or more

For requesting the pilotage service, the procedure is taken through an agent.

Fig. 2-23 List of Pilotage Districts in Japan



- 1. Kushiro
- 4. Hakodate
- 7. Hachinohe
- 10. Akita Funagawa
- 13. Kashima
- 16. Fushiki
- 19. Shimizu
- 22. Maizuru
- 25. Naikai
- 28. Komatsushima
- 31. Nagasaki
- 34. Kagoshima

- 2. Tomakomai
- 5. Otaru
- 8. Kamaishi
- 11. Sakata
- 14. Tokyo Wan
- 17. Nanao
- 20. Ise-Mikawa Wan
- 23. Wakayama Shimotsu
- 26. Sakai
- 29. Hakata
- 32. Shimabara kaiwan
- 35. Naha

- 3. Muroran
- 6. Rumoi
- 9. Sendai Wan
- 12. Onahama
- 15. Niigata
- 18. Tagonoura
- 21. Owase
- 24. Osaka wan
- 27. Kanmon
- 30. Sasebo
- 33. Hososhima

## PART 3 INFORMATION FOR SAFE NAVIGATION

This chapter mainly deals with measures to obtain the information needed for the safe navigation of vessels. Navigators are requested to make use of the various information.

## **Chapter 1** Provision of maritime safety information

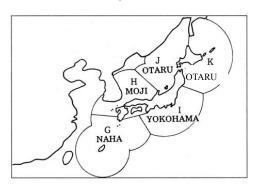
Japan Coast Guard broadcasts weather information such as high wind warning, information on navigational obstacles such as flotsam and that related to search and rescue such as advising other shipping of a stricken vessel via NAVTEX and INMARSAT EGC so that they may navigate the area safely.

#### 1. NAVTEX

JCG broadcasts concerning Search and Rescue information, navigational warnings and weather information at fixed time (upon reception in case of emergency)

by NAVTEX with five coastal stations allocated. (This area within 300 mm)

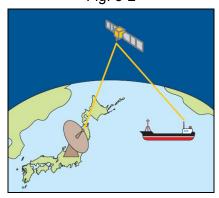
Fig. 3-1



#### 2. INMARSAT EGC

Such maritime safety information as weather warning, navigation warning, and disaster information is broadcast by an automatic receiving system via geostationary satellites from coastal earth stations. Object ships are those cruising the area further than 300 nm, and it can be received anywhere except particular areas.

Fig. 3-2



#### 3. Radio Telephone

Of such maritime information as weather, high water, and waves which are indispensable for safe navigation of ships, those which may cause disasters are broadcast as warnings by radio telephone by 11 District Communication Centers throughout Japan.

Fig. 3-3



Fig. 3-4

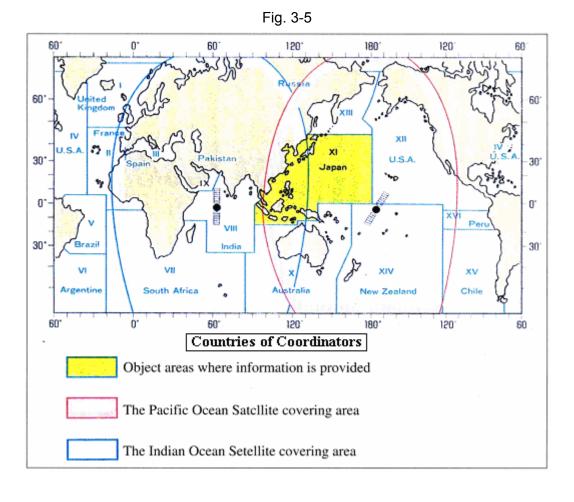


## **Chapter 2** Navigational Warnings and Maritime Traffic Information

#### 1. NAVAREA Navigational Warning

The whole world is divided into 16 areas, and the countries of coordinators taking a responsibility to each area collect information in the area and transmit necessary information. Japan is the coordinator of NAVAREA XI.

NAVAREA XI Navigational Warning provides information which should be reported urgently for the safety of marine vessels cruising the ocean by auto-print method and Internet home page using an INMARSAT geostationary satellite.

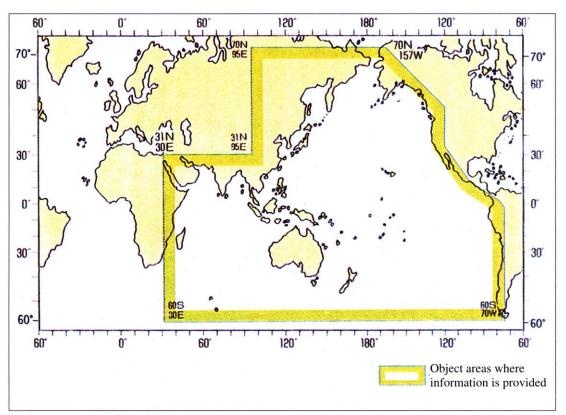


### 2. Japan Navigational Warning

Japan Navigational Warning provides information which should be reported urgently for the safety of Japanese marine vessels cruising areas from the Pacific Ocean, the Indian Ocean and circumference various sea stage Internet home page, etc..

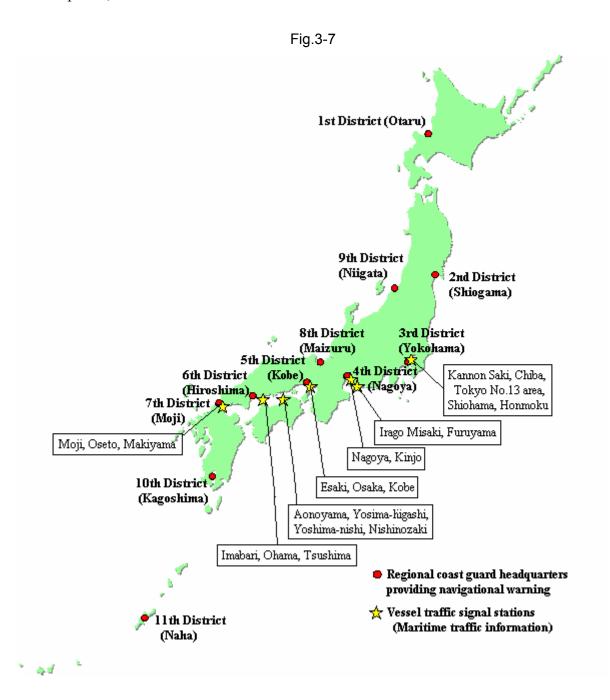
URL http://wwwl.kaiho.mlit.go.jp/TUHO/nmj.html

Fig. 3-6



# 3. Regional Coast Guard Headquarters Navigational Warning. Coast Guard Office Navigational Warning. Maritime Traffic Information

The Regional coast guard headquarters navigational warning, coast guard office navigational warning and maritime traffic information provide information which should be reported urgently for the safety of marine vessels cruising coastal ports in Japan to which Port Regulations Law is applied and adjacent areas thereof (in case of maritime traffic information, congested areas) by radio telephone, etc.



# Maritime Traffic Information Vessel Traffic Service Center

Name	Calling name	communi	h, internat	ppe for broadcasting ional VHF) For broad- casting	Com- muni- cation time	Servicing time	Remarks
Tokyo Wan	TOKYO MARTIS	CH13, 16	CH14, 22	H3E 1665 (Japanese) H3E 2019 (English)	All times	For 15 minutes from 0 minute and 30 minute of every hour (Japanese) For 15 minutes from 15 minute of every hour (English)	Kannonzaki Vessel Traffic Signal Station
Nagoya Ko	Nagoya Harbor Radar	СН16	CH14, 22	H3E 1665 (Japanese) H3E 2019 (English)	All times	For 15 minutes from 0 minute and 30 minute of every hour (Japanese) For 15 minutes from 15 minute and 45 minute of every hour (English)	Nagoya/Kinj yo Vessel Traffic Signal Station
Ise Wan	ISEWAN MARTIS	СН16	CH14, 22	H3E 1665 (Japanese) H3E 2019 (English)	All times	For 15 minutes from 15 minute and 45 minute of every hour (Japanese) For 15 minutes from 0 minute and 30 minute of every hour (English)	Irago misaki/Koya ma Vessel Traffic Signal Station
Osaka Wan	OSAKA MARTIS	CH13, 16	CH14, 22	H3E 1651 (Japanese) H3E 2019 (English)	All times	For 15 minutes from 15 minute and 45 minute of every hour (Japanese) For 15 minutes from 0 minute and 30 minute of every hour (English)	Esaki Vessel Traffic Signal Station
Bisan Seto	BISAN MARTIS	CH13, 16	CH14, 22	H3E 1651 (Japanese) H3E 2019 (English)	All times	For 15 minutes from 0 minute and 30 minute of every hour (Japanese) For 15 minutes from 15 minute and 45 minute of every hour (English)	Aonoyama Vessel Traffic Signal Station
Kurushim a Kaikyo	KURUSHIMA MARTIS	CH13, 16	CH14, 22	H3E 1651 (Japanese) H3E 2019 (English)	All times	For 15 minutes from 15 minute and 45 minute of every hour (Japanese) For 15 minutes from 0 minute and 30 minute of every hour (English)	Imabari/Oha ma Vessel Traffic Signal Station
Kanmon Kaikyo	KANMON MARTIS	CH13, 16	CH14, 22	H3E 1651 (Japanese) H3E 2019 (English)	All times	For 15 minutes from 0 minute and 30 minute of every hour (Japanese) For 15 minutes from 15 minute and 45 minute of every hour (English)	Kanmon/Oset o Vessel Traffic Signal Station

# Vessel Traffic Signal Station

Name	Calling name	Radio wave type for communication and broadcasting (kHz, Ch, international VHF)		Com- muni-	Servicing time	Remarks	
Tvarie		For call or responding	For communication	For broad- casting	cation time	Servicing time	Remarks
Osaka Wan	OSAKA HARBOR RADAR	СН16	CH14, 22	H3E 1665 (Japanese) H3E 2019 (English)	All times	For 10 minutes from 20 minute of each hour between 0400 and 2000 (English); for 10 minutes from 30 minute of each hour between 0400 and 2000 (Japanese)	
Kobe		CH16	CH14	_	All times	_	
Honmok u	KEIHIN HARBOR	CH16	CH14	_	All times	_	
Shioham a	RADAR	СН16	CH14	_	All times	_	
Tokyo No. 13 area	Tokyo No. 13 area	СН16	СН14	_	All times	_	
Chiba	Chiba harbor radar	CH16	CH14	_	All times	_	
Makiya ma	Dokai harbor radar	CH16	CH14, 22	_	All times		

# Regional Coast Guard Headquarters Navigational Warning and Coast Guard Office Navigational Warning

Type	Retransmission Start Timing	Name of Coastline Stations
Турс	Retransmission Start Tilling	F3E radiowave Ch16,Ch12
	10:02:40 /16:02:40	Moji
D 1' ( 1 1	10:10:00 /16:10:00	Nagoya, Naha
Radio telephone	10:15:00 /16:15:00	Niigata, Hiroshima
(Japanese and English as necessary)	10:20:00 /16:20:00	Yokohama, Maizuru, Kagoshima
	10:25:00 /16:25:00	Otaru
	10:32:40 /16:32:40	Shiogama, Kobe

# Chapter 3 Information Service in Tokyo Bay, Ise Bay, Osaka Bay, Bisan Seto Area, Kurushima Kaikyo Area, Kanmon Kaikyo Area and Nagoya Port

## 1. Tokyo Wan Vessel Traffic Service Center (Tokyo MARTIS)

<Outline of Duties>

	]	tem	Details	Communication method, etc.
		Regular broadcast	• Schedule of entry of huge ships seaway • Weather warning and advisory issued • Present weather (Kannon Zaki, Izu Oshima (Kazahayazaki). Sunosaki, Tsurugi saki, Honmoku, Tokyo Reclaimed Land No. 13) • Restrictions on seaway navigation • Trouble with beacon • Marine accidents • Construction and other works • Others	Frequency: Japanese: 1,665 kHz, English: 2,019 kHz Call name: Tokyo Martis Broadcast time Japanese: Every hour 00-15 min nd 30-45 min English: Every hour 15-30 min
ation	General information	Special broadcast	•Restrictions on seaway navigation •Large-scale marine accident •Others	Frequency: Japanese: 1,665 kHz, English: 2,019 kHz Call name: Tokyo Martis Broadcast time: As necessary
orm	ral i		• Schedule of entry of huge ships into seaway	•Subscription telephone: 046-843-0621
traffic inf	Gener	Telephone service	Restrictions on seaway navigation     Present weather (Kannon Zaki, Izu Oshima (Kazahayazaki), Sunosaki, Tsurugi saki, Honmoku, Tokyo Reclaimed Land No. 13)	•Subscription telephone: 046-844-4521
Provision of marine traffic information		Facsimile service	Schedule of entry of huge ships seaway     Restrictions on seaway navigation     Present weather (Kannon Zaki, Izu Oshima (Kazahayazaki). Sunosaki, Tsurugi saki, Honmoku, Tokyo Reclaimed Land No. 13)	•Subscription telephone: 046-844-2055
SIVC		Internet	(Conforming to regular broadcast)	http://www6.kaiho.mlit.go.jp/tokyowan/
Pro		ividual formation	<ul><li>Location of ship</li><li>Movements of other ships</li><li>Others</li></ul>	MICALALA
	Seaway information		•Fishing boats operation •Navigation method •Others	•VHF telephone Call neme: Tokyo Martis Call frequency. CH16 Communication frequency: CH14 and
		cial formation	Warning for prevention of collision     Warning for avoidance of running and aground and other risks     Warning to correct navigation method     Others	CH22 Subscription telephone: 046-843-3622
Navigation control		on control	<ul> <li>Reception of seaway information and instructions regarding navigation based on the Marine Traffic Safety Law</li> <li>Applicable ship: Huge ships, etc.</li> <li>Reception of seaway information and navigational recommendation</li> <li>Applicable ship: Ships with gross tonnage of 10,000 tons or more (Huge ships excluded)</li> </ul>	•VHF telephone Call name: Yokohama Hoan (JGC) Frequency. CH12 and CH16 •DSC: 004310301 •Subscription telephone: 046-843-8622~ 4 •Fax: 046-844-4720 •Others

## <Report of location>

Ships that should report	Details of report	Method of report
<ul> <li>Huge Vessel</li> <li>Ships with gross tonnage of of 10,000 tons or more (Giant ships excluded)</li> <li>Ships with gross tonnage of 100 tons or more and maximum boarding capacity of 30 people or more (total of passenges, crew, and other people on board)</li> </ul>	<ul> <li>(1) Ship's name and gross tonnage tonnage</li> <li>(2) Passing time (Japanese Standard Time in 24-hour system)</li> <li>(3) Abbreviation of passing line or passing line or approx. location with respect to a major target</li> <li>(4) Destination</li> </ul>	•VHF telephone Call name: Tokyo Martis Call frequency: CH16 Communication frequency: CH14 and CH22 •Subscription telephone: 0468-43-86223~4

# 2. Isewan Vessel Traffic Service Center (Ise wan MARTIS)

<Outline of Duties>

	Item		Details	Communication method, etc.
ion	ation	Regular broadcast	Schedule of entry of huge ship into seaway     Present and scheduled traffic control signal     Weather warning and advisory issued     Present weather (Iragomisaki, Daiouzaki, Maisaka)     Current traffic steates     Fishing boats in operation     Marine accidents     Construction and other works     Abnormality Aids to navigation     Restriction of navigation in the route     Others	Frequency: Japanese: 1,665 kHz, English: 2,019 kHz Call name: Isewan Martis Broadcast time Japanese: Every hour 15-30 min and 45-00 min English: Every hour 00-15 min and 30-45 min
Provision of marine traffic information	General information	Special broadcast	•Restriction of navigation in the route •Marine accidents •Others	Frequency: Japanese: 1,665 kHz, English: 2,019 kHz Call name: Isewan Martis Broadcast time: As necessary
narine traff	Gen	Telephone service	•Restriction of navigation in the route •Schedule of entry of huge ship into seaway •Present and scheduled traffic control signal •Present weather (Iragomisaki, Daiouzaki, Maisaka)	•Subscription telephone: 0531-34-2666 •Subscription telephone: 0531-34-2333
on of n		Facsimile service	(Conforming to regular broadcast)	• Subscription telephone: 0531-34-2888 URL:
/ISI		Internet	(Conforming to regular broadcast)	http://www6.kaiho.mlit.go.jp/isewan/
Prov		Information signal	·Movements of huge ships	•Electrical Signal Board
	Searinf Spe	formation way formation cial formation	•Position of your ship •Movements of other ships •Fishing boats in operation •Navigation method •Others •Warning to avoid collusion with other ships •Warning to correct the navigation •Warning to prevent a ship from running aground •Others	• VHF telephone Call name: Isewan Martis Call frequency: CH16 Communication frequency: CH14 and CH22 Subscription telephone: 0531-34-2445 Subscription telephone: 0531-34-2446
Navigation control		on control	•Reception of seaway information and instructions regarding navigation based on the Marine Traffic Safety Law Applicable ship: Huge ships, etc. •Reception of seaway information and navigational recommendation Applicable ship: Huge ships, etc. (1) Ships with gross tonnage of 10,000 tons or more (Huge ships excluded) (2) Ships measuring 130 m or longer in total length •Reception of seaway information Applicable ship: Ships with gross tonnage of 3,000 tons or more and less than 10,000 tons (Huge ships and shorter than 130 m in total length is excluded)	•VHF telephone Call name: Nagoya Hoan (JNT) Call frequency: CH12 and CH16 DSC: 004310401 •Subscription telephone: 0531-34-2443 •Fax: 0531-34-2444 •Others
			•Signal control at Irago Seaway based on the Marine Traffic Safety Law	•Electrical Signal Board

# <Port of location>

Ships that should report	Details of report	Method of report
	(1) Ship's name	•VHF telephone
	(2) Abbreviation of passing line	Call name: Isewan Martis
•Huge ship	(3) Passing time (Japanese Standard	Call frequency: CH16
• Ships with gross tonnage of 1,000	Time in 24-hour system)	Communication frequency: CH14
tons or more (Huge ships excluded)	(4) Overall length	and CH22
, , ,	(5) Port of destination	• Subscription telephone:
	(6) Others	0531-34-2443

# 3. Osaka Wan Vessel Traffic Service Center (Osaka MARTIS)

## <Outline of Duties>

	Item		Details	Communication method, etc.
	n	Regular broadcast	•Schedule of entry of huge ships into seaway •Weather warning and advisory issued •Present weather (Esaki and Jizozaki) •Fishing boats in operation •Restrictions on seaway navigation •Trouble with beacon •Marine accidents •Construction and other works •Others	Frequency: Japanese: 1,650 kHz, English: 2,019 kHz Call name: Osaka Martis Broadcast time: Japanese: Every hour 15-30 min and 45-00 min English: Every hour 00-15 min and 30-45 min
ormation	General information	Special broadcast	•Restrictions on seaway navigation •Large-scale marine accident •Others	Frequency: Japanese: 4,650 kHz, English: 2,019 kHz Call name: Osaka Martis Broadcast time: As necessary
ne traffic inf	General	Telephone service	•Schedule of entry of huge ships into seaway •Restrictions on seaway navigation •Present weather (Esaki and Jizizaki)	• Subscription telephone: 0799-82-3044 (For the day) 0799-82-3043 (For the next day) • Subscription telephone: 0799-82-3040
Provision of marine traffic information		Facsimile service	<ul> <li>Schedule of entry of huge ships into seaway</li> <li>Restrictions on seaway navigation</li> <li>Fishing boats in operation</li> <li>Present weather (Esaki and Jizozaki)</li> <li>Others</li> </ul>	•Subscription telephone: 0799-82-3046
rov		Internet	(Conforming to regular broadcast)	http://www6.kaiho.mlit.go.jp/osakawan/
Д	Individual information Seaway information		<ul> <li>Location of ship · Movements of other ships</li> <li>Others</li> <li>Fishing boats in operation · Navigation method</li> <li>Others</li> <li>Warning for prevention of collision</li> </ul>	•VHF telephone Call name: Osaka Martis Call frequency: CH16 Communication frequency: CH14 and CH22
	Spe inf	cial formation	<ul> <li>Warning for avoidance of running aground and other risks</li> <li>Warning to correct navigation method</li> <li>Others</li> </ul>	•Subscription telephone: 0799-82-3030~
Navigation control		on control	<ul> <li>Reception of seaway information and instructions regarding navigation based on the Marine Traffic Safety Law Applicable ship: Huge ships, etc.</li> <li>Reception of seaway information and navigational recommendation Applicable ship: (1) Ships with gross tonnage of 10,000 tons or more (Huge ships excluded) (2) Ships towing (or pushing) an object measuring 150 m or longer and shorter than 200 m in total length</li> <li>Reception of seaway information Applicable ship: Ships with gross tonnage of 3,000 tons or more and less than 10,000 tons (Huge ships excluded)</li> </ul>	•VHF telephone Call name: Kobe Hoan (JGD) Frequency: CH16 DSC: 004310501

# <Report of location>

Ships that should report	Details of report	Method of report
·Huge Vessel	(1) Ship's name	•VHF telephone
• Ships with gross tonnage of 3,000	(2) Passing time (Japanese Standard	Call name: Osaka Martis
tons or more (Giant ships excluded)	Time in 24-hour system)	Call frequency: CH16
• Ships towing (or pushing) an object	(3) Abbreviation of passing line	Communication frequency: CH14
measuring 100 m or longer and	(4) Others (length of an object towed	and CH22
shorter than 200 m in total length	(or pushed), etc.)	•Subscription: 0799-82-3030~1

# 4. Bisan Seto Vessel Traffic Service Center (Bisan MARTIS)

## <Outline of Duties>

	]	Item	Details	Communication method, etc.
		Regular broadcast	<ul> <li>Schedule of entry of huge ships into seaway</li> <li>Present control signal used for Mizushima Seaway and previous notice</li> <li>Weather warning and advisory issued</li> <li>Fishing boats in operation</li> <li>Restrictions on seaway navigation</li> <li>Trouble with beacon</li> <li>Marine accidents</li> <li>Construction and other works</li> <li>Others</li> </ul>	Frequency Japanese: 1,651 kHz, English: 2,019 kHz Call name: Bisan Martis Broadcast time: Japanese: Every hour 00-15 min and 30-45 min English: Every hour 15-30 min and 45-00 min
nformation	General information	Special broadcast	•Restrictions on seaway navigation •Large-scale marine accident •Others	Frequency Japanese: 1,651 kHz English: 2,019 kHz Call name: Bisan Martis Broadcast time: As necessary
Provision of marine traffic information	General i	Telephone service	<ul> <li>Schedule of entry of huge ships into seaway</li> <li>Present control signal used for Mizushima Seaway and previous notice</li> <li>Restrictions on seaway navigation</li> <li>Present weather (Aonoyama, Muzushima, Shimotsui, and Jirozaki)</li> </ul>	•Subscription telephone: 0877-49-5166 (For the day) 0877-49-5167 (For the next day) •Subscription telephone: 0877-49-1041
sion of		Facsimile service	(Conforming to regular broadcast)	•Subscription telephone: 0877-49-1199
Vi		Internet	(Conforming to regular broadcast)	http://www6.kaiho.mlit.go.jp/bisan/
Pro		Information signal	•Movements of huge ships at intersection in Mizushima Seaway •Others	•Electric indicator panel
		ividual	<ul> <li>Location of ships</li> </ul>	•VHF telephone
		formation	•Movements of other ships •Others	Call name: Bisan Martis
		way	•Fishing boats in operation	Call frequency: CH16
	inf	formation	•Navigation method •Others	Communication frequency: CH14 and
	C	aia1	<ul> <li>Warning for prevention of collision</li> </ul>	CH22
		cial formation	<ul><li>Warning for avoidance of running aground and other</li><li>Warning to correct navigation method</li><li>Others</li></ul>	•Subscription telephone: 0877-49-2220~1
Navigation control		on control	<ul> <li>Reception of seaway information and instruction refarding navigation on the Marine Traffic Safety Law Applicable ship: Huge ships, etc.</li> <li>Reception of seaway information and navigational recommendation</li> <li>Applicable ship: Ships with gross tonnage of 10,000 tons or more (Huge ships excluded)</li> <li>Reception of seaway information</li> <li>Applicable ship: Ships with gross tonnage of 3,000 tons or more (ships with the total length of 70 m or more voyaging though Mizushima Seaway) and less than 10,000 tons (Giant ships excluded)</li> <li>Signal control at Mizuhima Seaway based on the Marine Traffic Safety Law</li> <li>Signal control at seaway in Mizushima Port based on the Handor Regulation Law</li> </ul>	VHF telephone Call name: Kobe Hoan (JGD)     Frequency: CH12 and CH16     DSC: 004310501      VHF telephone Call name: Hiroshima     Hoan (JNE)         Frequency: CH12 and CH16         DSC: 004310601      Subscription telephone: 0877-49-2220~1         *Fax: 0877-49-1413         Others      *Electric indicator panel

## <Report of location>

Ships that should report	Details of report	Method of report
• Huge Vessel • Ships with gross tonnage of 3,000 tons or more (ships with the total length of 70 m or more voyaging though Mizushima Seaway ) (Giant ships excluded)	(1) Ship's name (2) Passing time (Japanese Standard time in 24-hour system) (3) Abbreviation of passing line	• VHF telephone Call name: Bisan Martis Call frequency: CH16 Communication frequency: CH14 and CH22 Subscription telephone: 0877-49-2220~1

# 5. Kurushima Kaikyo Vessel Traffic Service Center (Kurushima MARTIS)

<Outline of Duties>

	]	Item	Details	Communication method, etc.
ı	uc	Regular broadcast	•Schedule of entry of huge into seaway •Weather warning and advisory issued •Present weather (Tsushima, Imabari, and Tkaikamishima) •Fishing boats in operation •Restrictions on seaway navigation •Ttouble with beacon •Marine accidents •Construction and other works •Others	Frequency: Japanese: 1,651 kHz, English: 2,019 kHz Call name: Kurushima Martis Broadcast time Japanese: Every hour 15-30 min and 45-00 min English: Every hour 00-15 min and 30-45 min
Provision of marine traffic information	General information	Special broadcast	•Restrictions on seaway navigation •Large-scale marine accident •Others	Frequency Japanese: 1,651 kHz, English: 2,019 kHz Call name: Kurushima Martis Broadcast time: As necessary
traffic	Gener	Telephone service	•Schedule of entry of huge ships into seaway •Restrictions on seaway navigation •Present weather (Tsushima, Ohama and	• Subscription telephone: 0898-31-3636
arine			Takaikamishima???)	•Subscription telephone: 0898-31-8177
of m		Facsimile service	(Conforming to regular broadcast)	• Subscription telephone: 0898-31-4646
ion		Internet	(Conforming to regular broadcast)	http://www6.kaiho.mlit.go.jp/kurushima/
rovis		Information signal	•Movements of giant ships near the channel in the Kurushima Kaikyo Seaway •Others	•Electric indicator panel
	inf Sea	ividual formation way formation	<ul> <li>Location of ships</li> <li>Movements of other ships</li> <li>Fishing boats in operation</li> <li>Navigation method</li> <li>Others</li> </ul>	•VHF telephone Call name: Kurushima Martis Call frequency: CH16
		cial formation	<ul> <li>Warning for prevention of collision</li> <li>Warning for avoidance of running aground and other risks</li> <li>Warning to correct navigation method</li> <li>Others</li> </ul>	Communication frequency: CH14 and CH22 • Subscription telephone: 0898-31-9000
Navigation control		on control	<ul> <li>Reception of seaway information and instructions regarding navigation based on the Marine Traffic Safety Law</li> <li>Applicable ship: Huge ships, etc.</li> <li>Reception of seaway information and navigational recommendation</li> <li>Applicable ship: <ol> <li>Ships with gross tonnage of 10,000 tons or more (Huge ships excluded)</li> <li>Ships towing (or pushing) an object measuring 100 m or longer and shorter than 200 m in total</li> </ol> </li> </ul>	•VHF telephone Call name: Hiroshima Hoan (JNE) Frequency: CH12 and CH16 DSC: 004310601  •VHF telephone Call name: Kobe Hoan (JGE) Frequency: CH12 and CH16 DSC: 004310501
			length •Reception of seaway information Applicable ship: ships with gross tonnage of 3,000 tons or more and less than 10,000 tons (Giant ships excluded)	• Subscription telephone: 0898-31-9000 • Fax: 0898-31-9666 • Others

# <Port of location>

Ships that should report	Details of report	Method of report
• Huge Vessel • Ships with gross tonnage of 1,000 tons or more (Giant ships excluded) • Ships towing for pushing an object measuring 100 m or longer and shorter than 200 m in total length	(1) Ship's name (2) Passing time (Japanese Standard Time in 24-hour system) (3) Abbreviation of passing line (4) Others a. Length: For ships towing or pushing an object b. Destination: For ships that do not need seaway information	•VHF telephone Call name: Kurushia Martis Call frequency: CH16 Communication frequency: CH14 and CH22 Subscription telephone: 0898-31-9000

## 6. Kanmon Kaikyo Vessel Traffic Service Center (Kanmon MARTIS)

## <Outline of Duties>

	]	Item	Details	Communication method, etc.	
	ation	Regular broadcast	•Schedule of entry of huge ships into seaway •Present and scheduled control signal •Weather warning and advisory issued •Present weather (Hesaki and Daibaharia) •Restrictions on or prohibition of seaway navigation •Trouble with beacon •Marine accidents •Construction and other works •Others	Frequency: Japanese: 1,651 kHz, English: 2,019 kHz Call name: Kanmon Martis Broadcast time Japanese: Every hour 00-15 min and 30-45 min English: Every hour 15-30 min and 45-00 min	
Provision of marine traffic information	General information	Special broadcast	•Restrictions on or prohibition of seaway navigation •Large-scale marine accident •Others	Frequency Japanese: 1,651 kHz, English: 2,019 kHz Call name: Kanmon Martis Broadcast time: As necessary	
fic inf	Ger	Telephone service	•Schedule of entry of huge ships into seaway •Restrictions on or prohibition of seaway navigation	• Subscription telephone: 093-381-3399	
ne traf		Facsimile service	(Conforming to regular broadcast)	• Subscription telephone: 093-372-2741	
ari.		Internet	(Conforming to regular broadcast)	http://www6.kaiho.mlit.go.jp/kanmon/	
ofma		Information signal	•Movements of large ships near Oseto in Kanmon Seaway •Others	•Electric indicator panel	
ovision	inf	vidual formation way	<ul> <li>Location of ship</li> <li>Movements of other ships</li> <li>Fishing boats in operation</li> <li>Fishing boats in operation</li> </ul>		
Pı	inf Info	formation on chorage	•Navigation method •Others •Situation of ships anchoring in the sea area in the north Mutsureshima and the area off Hesaki	•VHF telephone Call name: Kanmon Martis Call frequency: CH16	
	Spe	cial Formation	<ul> <li>Warning for prevention of sollision</li> <li>Warning for avoidance of running aground and other risks</li> <li>Warning to correct navigation method</li> <li>Warning for coordination of navigation at Hayatomoseto</li> <li>Others</li> </ul>	Communication frequency: CH14 and CH22 • Subscription telephone: 093-372-0099	
Navigation control		on control	Reception of advance report based on the Port Regulations Law Applicable ship: (1) Ships with gross tonnage of 10,000 tons (3,000 tons for oil tankers) or more that intend to navigate through Hayatomoseto Channel Reception of advance report Applicable ship: Ships with gross tonnage of 3,000 tons or more ((1) excluded)	•VHF telephone Call name: Moji Hoan (JNR) Frequency: CH12 and CH16 •DSC: 004310701 •Subscription telephone: 093-372-0099 •Fax: 093-381-4499 •Others	
			•Signal control at Hayatomoseto Channel based on the Port Regulations Law	•Signal by electric indicator panel (Hayatomoseto Channel)	

## <Port of location>

Ships that should report	Details of report	Method of report
Ships with gross tonnage of 3,000 tones (1,000 tons for ships entering or leaving Seitetsu Tobata Hakuchi through Tobata Seaway) or more	<ul> <li>(1) Ship's name</li> <li>(2) Passing time (Japanese Standard Time in 24-hour system</li> <li>(3) Abbreviation of passing line or whart code No.</li> </ul>	• VHF telephone Call name: Kanmon Martis Call frequency: CH16 Communication frequency: CH14 and CH22 Subscription telephone: 093-372-0099

## 7. Nagoya Port Vessel Traffic Service Center

## <Outline of Duties>

	Item		Details	Communication method, etc.	
ation	mation	Regular broadcast	Schedule of entry of control ship into seaway     Present control signal and previous notice     Weather warning and advisory issued     Present weather (Eastern end of the central stoem surge protection breakwater)     Trouble with beacon     Construction and other works     Restrictions on or prohibition of seaway navigation     Marine accidents     Others	Frequency: Japanese: 1,665 kHz, English: 2,019 kHz Call name: Nagoya Harbor Radar Broadcast time: Japanese: Every hour 00-15 min and 30-45 min English: Every hour 15-30 min and 45-00 min	
c inform	General information	Special broadcast	•Restrictions on seaway navigation •Large-scale marine accident •Others	Frequency: 1,665 kHz Call name: Nagoya Harbor Radar Broadcast time: An necessary	
Provision of marine traffic information	Gene	Telephone service	<ul> <li>Schedule of entry of control ship into seaway</li> <li>Present control signal used and previous motice</li> <li>Restrictions on or prohibition of seaway navigation</li> </ul>	• Subscription telephone: 052-398-0714	
fmar		Facsimile service	(Conforming to regular broadcast)	• Subscription telephone: 052-398-1379	
n o		Internet	(Conforming to regular broadcast)	http://www6.kaiho.mlit.go.jp/nagoyako/	
ovisio		Information signal	•Movements of ships voyaging near intersection in seaway	•Electric indicator panel	
Pro		ividual formation	<ul><li>Location of ship</li><li>Movements of other ships</li><li>Others</li></ul>	•VHF telephone Call name: Nagoya Harbor Radar	
	Spe	cial formation	<ul> <li>Warning for prevention of sollusion</li> <li>Warning for avoidance of running aground and other risks</li> <li>Warning to correct navigation method</li> <li>Others</li> </ul>	Call frequency: CH16 Communication frequency: CH14 and CH22 •Subscription telephone: 052-398-0712	
Navigation control		on control	•Reception of advance report based on the Marine Traffic Law Applicable ship: Ships with gross tonnage of 20,000 tons (5,000 tons for oil tankers) or more	• VHF telephone Call name: Nagoya Hoan (JNT) Frequency: CH12 and CH16 • DSC: 004310401 • Subscription telephone: 052-398-0715 • Fax: 052-398-0716 • Others	
			• Signal control at the east, west, and north seaway based on the Marine Traffic Safety Law	•Electric indicator panel	

## <Port of location>

Ships that should report	Details of report	Method of report
• Ships with gross tonnage of 5,000 tons or more • Ships with gross tonnage of 5,000 tons leaving from Kinjo area	<ol> <li>(1) Ship's name and gross tonnage</li> <li>(2) Passing time or navigation start time</li> <li>(3) Abbreviation of location report line (only when entering port)</li> <li>(4) Name of whart location of anchorage</li> <li>(5) Name of planned seaway to pass through</li> </ol>	•VHF telephone Call name: Nagoya Harbor Radar Call frequency: CH16 Communication frequency: CH14 and CH22 Subscription telephone: 052-398-0712

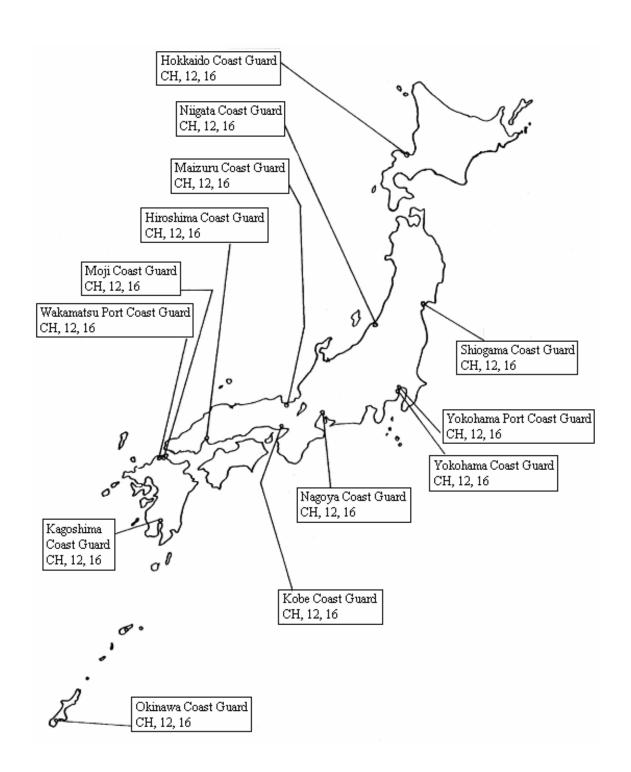
## **Chapter4** Information in Port

## 1. Port Operation Communications

15 coastal stations throughout Japan handle reports relating to arrival of a ship and quarantine inspection to secure safe navigation of ship in ports such as Keihin Port and Nagoya Port where ship traffic is heavy.

Call sign	Calling frequencies (kHz)	Working frequencies (kHz)	Name of port In charge
JNL HOKKAIDO COAST GUARD RADIO	156.8 MHz	156.6 MHz	Nemuro Rumoi Tomakomai Kushiro Muroran Wakkanai Otaru Hakodate
JNN SHIOGAMA COAST GUARD RADIO	156.8 MHz	156.6 MHz	Hachinohe Kamaishi Sendai- Shiogama Onahama Akata-funakawa
YOKOHAMA HARBOR COAST GUARD RADIO	156.8 MHz	156.6 MHz	Keihin Kashima
JGC YOKOHAMA COAST GUARD RADIO	156.8 MHz	156.6 MHz	Kisarazu Chiba Yokosuka Shimizu
JNT NAGOYA COAST GUARD RADIO	156.8 MHz	156.6 MHz	Nagoya Yokkaichi
JGD KOBE COAST GUARD RADIO	156.8 MHz	156.6 MHz	Hanshin Tanabe Kochi
HIROSHIMA COAST GUARD RADIO	156.8 MHz	156.6 MHz	Uno Takamatsu Sakaide Onomichi- Itosaki Kure Hiroshima Tokuyama- Kudamatsu Iwakuni Nihama Imabari Matsuyama
JWAKAMATSU HARBOR COAST GUARD RADIO	156.8 MHz	156.6 MHz	Kanmon
JNR MOJI COAST GUARD RADIO	156.8 MHz	156.6 MHz	Kanmon Oita Sasebo Hakata Izuhara

Call sign	Calling frequencies (kHz)	Working frequencies (kHz)	Name of port In charge
JNC MAIZURU COAST GUARD RADIO	156.8 MHz	156.6 MHz	Maizuru Sakai
JNV NIIGATA COAST GUARD RADIO	156.8 MHz	156.6MHz	Niigata Fushiki- Toyama
JNU KAGOSHIMA COAST GUARD RADIO	156.8 MHz	156.6 MHz	Kagoshima Naze
JNB OKINAWA COAST GUARD RADIO	156.8 MHz	156.6MHz	Naha

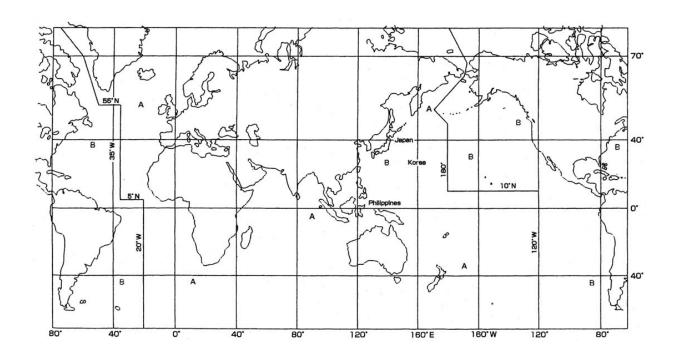


## Chapter 5 Uniform System of Buoyage along the Coast of Japan

The system of buoyage used in Japan is the B-system. Explanations are given here on the B-system. Caution is to be exercised so that navigating officers not to confuse it with the A-system.

System of Buoyage throughout the world

Region	Type of marks		Color		Light	Main nations	
Region			Top mark	Body	Color	iviani nations	
A		Port mark	Red	Red	Red	Germany, UK, France, Spain, South Africa, Saudi-Arabia, India,	
A	Side	Starboard mark	Green	Green	Green	Indonesia, Australia, Republic of China, Russia	
D	buoyage	Port mark	Green	Green	Green	Canada, USA, Mexico, Cuba, Peru,	
В		Starboard mark	Red	Red	Red	Brazil, Argentina, Chile, Japan, ROK, Republic of the Philippines	



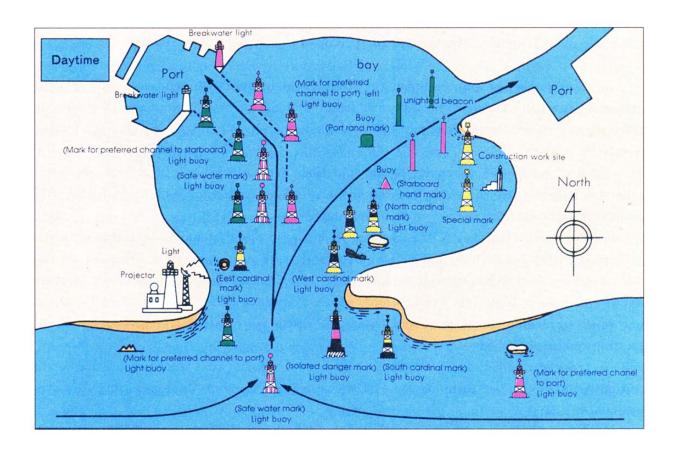
The System of Buoyage in Japan

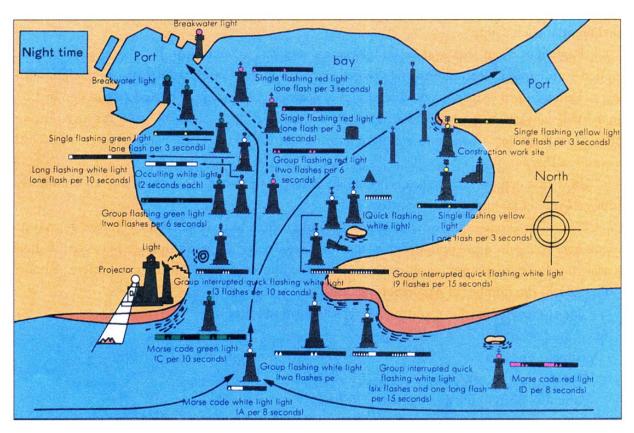
Туре		Body T		op mark	Illustration					Characteristic phases	
T	ype	Colour	Colour	Shape	Light buoy	Buoy	Light beacon	Beacon	Colour of light	Characteristic lighting	
	Port hand mark	Green	Green	Gylindrical, 1 pc.					Green	Single flashing (intervals: 3, 4 and 5 seconds)  Group flashing (2 Flashes per 6 seconds)	
Side	Starboard hand mark	Red	Red	Cone, 1 pc.				Î	Red	Morse code light (A, B, C and D; intervals: optional)  A Quick flashing	
buoyage	Mark for preferred channel to port	One green horizontal belt on red back ground	Red	Cone, 1 pc.				1	Red	Fixed and group flashing light (two flashes and on	
	Mark for preferred channel to starboard	One red horizontal belt on green back ground	Green	Gylindrical, 1 pc.					Green	flash per 7 seconds)	
	North car- dinal mark	Black top half and red bottom half	Black	Cone, two in verrical tanden (both pointing up)				<b>1</b>	White	Quick flashing	
Azimuth	East Cardinal mark	One Yellow horizontal belt on black ground	Black	Cone, two in verrical tanden (with face-to- face bottoms)	*	*		*	White	Group quick flashing light (three flashes per 10 seconds)	
	South Cardinal mark	Yellow top helf and black	Black	Cone, two in vertical tan- dem (both tops pointing down)	***************************************	支		İ	White	Group quick flashing (six flashes and one long flash per 15 seconds)	
	West Cardinal mark	One black horizontal belt in yellow background	Black	Cone, two in verrical tanden (both pointing oppesite)		表表			White	Group quick flashing (nine flashes per 15 seconds)	
Isolated dar	nger mark	One to mote red horizon- tal belts on black back- ground	Black	Dianond, two in vertical tan- dem			İ		White	Group quick flashing (six flashes and one long flash per 15 seconds)	
Safe water mark		Vertical stripes, red and white	Red	Diamond, 1 pc.				-	White	Occulting light (2 second each) Group flashing (five flashes per 20 seconds) Morse code flashing (A per 8 seconds)	
Special mark		Yellow	Yellow	X-shape, 1 pc.	***	3 3 4	***************************************	***	Yellow	Group flashing (five flashes per 20 seconds)  Morse code flashing (excluding A and U, intervals optional)	

## Purpose of Buoyage

	Classification	Purpose		
	Port hand mark	The term port hand means that side of the channel which will be on the left hand of the navigator when he is going with the traffic route or navigable water (left hand when he faces the source of water).		
Side buoyage	Starboard hand mark	The terms starboard hand means that side of the channel which will on the right hand of the navigator when he is going with the traffic route or navigable water (right hand when he faces the source off water).		
	Mark for preferred channel to port	When a channel is branched and priority is clear according to the rule of the road, this buoy is installed at the junction. This shows that the priority channel is on the left side of the buoy.		
	Mark for preferred channel to starboard	Under the same principle as that above, this shows that the priority channel is on the right side of the buoy.		
Special ma	ırk	This is used to mark positions of construction work, dredging or reclaiming areas, pipelines, or such other special purposes to indicate the position of an oceanographic data collection buoy.		
	North cardinal mark	This marks that there are navigable water, entrance or exit of a		
Azimuth	East cardinal mark	channel, bends or junctions in the direction indicated by the respective		
buoyage	South cardinal mark	buoyage. This also indicates that rocks, shoals, wrecks or other obstructions exist in the opposite direction.		
	West cardinal mark	obstructions exist in the opposite direction.		
Isolated da	inger buoy	This marks small obstructions. Although the peripheral waters are generally navigable, careless access is dangerous.		
Safe water	buoyage	This marks particularly important points such as mid-channel, inlet of a port or bay, where there is no danger.		

## **Examples of Buoyage System**





## **Chapter 6** Japanese Ship Reporting System (JASREP)

A large number of ships including ore and oil carriers and fishing vessels are constantly navigation through the peripheral waters of Japan, and marine casualties cauese by these ships are hardly exterminated whereby many of precious human lives and sizable amounts of wealth are lost every year.

To develop effective search and rescue operations in a possible event of unfortunate marine casualty, it is highly instrumental that the authorities responsible for such activities are fully provided with information on the movements of ships.

In this connection, the AMVER System, a ship reporting system, has been implemented in the United States since 1958, and many ships in distress were successfully rescued through positive utilization of this system. In the provisions of the International Convention on Maritime Search and Rescue, 1979 (SAR Convention), which came into effect on June 22, 1985 with a purpose of establishing an international search and rescue system, it was prescribed that a ship reporting system should be established.

In order to respond to such an international move, Japan Coast Guard commenced a ship position reporting system form October 1,1985 under the name of "Japanese Ship Reporting System (JASREP)."

The JASREP System is almost compatible with the AMVER System of USA where the information including sailing plan, positional data, etc., reported from each ship is processed in the computer of the JASSREP System for enabling Japan Coast Guard to recognize the ongoing movement of such a ship.

Participation in this system is not compulsory but is voluntary. No charge whatsoever is applied to all radiotelephonic reports which pass through coastal radio stations designated by Japan Coast Guard. All informations of ship's position and others reported to the Japan Coast Guard will be strictly kept confidential and protected and will never be used for any purposes other than those for search and rescue operations in the event of marine casualty and for the prevention thereof.

In a vast expanse of the sea, it is seldom to have other ships in sight although a number of ships are, in fact, making their respective ways.

The effectiveness of the JASREP System serving to develop most reliable search and rescue operations in a possible event of marine casualty by the close linkage between the Japan Coast Guard and participating ships through the computer system will be much more enhanced by increase of the number of participating ships.

Japan Coast Guard is awaiting for reports form many ships.

#### 1. Outline

(1) Name

Japanese Ship Reporting System (JASREP)

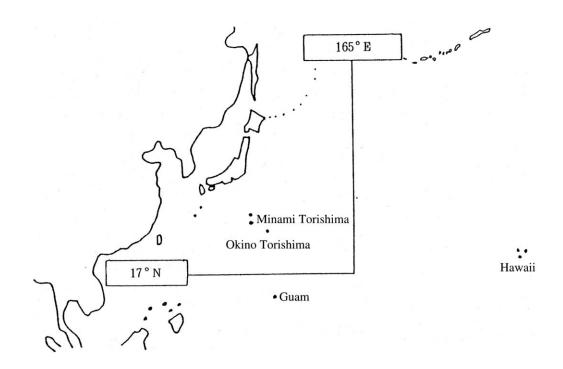
(2) Purpose

The JASREP System provides up-to-date information on the movements of vessels in order, in the event of a distress incident:

- ① to reduce the interval between the loss contact with a vessel and the initiation of search and rescue operations in cases where no distress signal has been received;
- ② to permit rapid determination of vessels which may be called upon to provide assistance;
- ③ to permit delineation of a search area of a limited size in case the position of a vessel in distress is unknown or uncertain; and
- ④ to facilitate the provision of urgent medical assistance or advice to vessels not carrying a doctor.

#### (3) Service area

The approximate service area covered by the JASREP System is the sea enclosed by the parallel of latitude 17° N and the meridian of longitude 165° E.



## (4) Participating ships

Any ship regardless of tonnage, flag or type is welcome in the JASREP System as far as she is within the service area of the system. Participation is voluntary.

#### (5) Types of reports and timing

There are four types of JASREP Reports: Sailing Plan, Position Report, Deviation Report and Final Report.

## ① Sailing Plan

Sailing Plan is the basic information to estimate ship's position, and it should be sent at the time when a ship participates in this system. Reports should therefore be made when the ship departs from a port within the service area or when the ship enters the area.

Note: When Sailing Plan is sent after departure from a port or after entering the service area, it should be made as soon as practicable. When Sailing Plan is to be sent before departure from a port, such a report may be sent as a written document.

## ② Position Report

Position Report is the information to verify if ship's position input according to the Sailing Plan is correct. The 1st report should the refore be sent within 24 hours of departure from a port or entering the service area, and then the reports should be sent subsequently no less frequently than every 24 hours until the Final Report.

Note 1: In case where delayed reporting is anticipated due to change of radio operator's duty hours or for other reasons, reports should be sent earlier than the scheduled time of reporting as far as practicable.

Note 2: Reports should be sent more frequently than the above schedule, when the ship is in heavy weather or under other adverse conditions.

Note 3: In the JASREP service area, no coordination with weather reporting service is made.

## 3 Deviation Report

Deviation Report is the information to be used for necessary correction of pre-reported Sailing Plan when a ship deviates from the intended course due to a change in Sailing Plan Reports should be sent whenever the ship's position deviates 25 miles or more from the original track, or the port of destination is changed, or other changes occur with a resultant change in Sailing Plan.

## 4 Final Report

Final Report is the information to terminate participation in the system. Accordingly, reports should be sent prior to or on arrival at port, or when a ship has departed from the service area of the system.

Note: When Final Report is intended to be sent after departing from the service area, such a report should be sent as soon as practicable.

If the report is sent after arrival at port, such a report may be sent as a written document. For reporting procedures, see the "Report Examples."

## (6) How to participate

Participation in this system is initiated when a ship sends her Sailing Plan and terminates when the ship sends her Final Report to the Japan Maritime Safety Agency.

Note: If any non-participating ship on departure from a port or on entering the JASREP service area wants to participate halfway, it is possible to join the JASREP System by sending the Sailing Plan whenever the decision is made.

If, conversely, any ship wants to terminate participation in the system, it is possible to terminate simply by sending the Final Report at any time.

If no Position Report or Final Report is received from a participant in no less than 24 hours subsequent to the previous report, Japan Coast Guard will verify the safety and whereabouts of the ship through radiotelegraphic calls and inquiries addressed to the relevant coastal stations, shipowners, agents and ships proceeding in the vicinity.

Depending on circumstances, search and rescue operations will be initiated, therefore, Position Report and Final Report must be sent without fail.

## 2. Reporting procedure

## (1) Reporting format

1) Sailing Plan

				Sailing	Plan				(Note
	(Required d	ate items)							1 `
	System name		Тур	e of report					1
	JASREP	/		SP	//				
	Ship nam	ne	Identif	cation Signal					1
A/		/		/	//				
	Time of depa	arture							2
Β/		//							
	Port of depar	rture	I	atitude	Longituc	le			
G/		/			/	/	<u> </u>		
	Port of destin	nation	I	Latitude	Longitud	le	Estin	nated time of arrival	
I/		/			/		/	//	
				Route in	formation				
	Navigation method	Average	e speed	Latitude	Longitude		ed time rival	Name of landmark or sea area	
L/	RL	/	/		/ /	/			3
L/	RL	/	/		/	/	//		
L/	RL	/	/		/	/	//		
L/	RL	/	/		/	/	//		
L/	RL	/	/		/	/	//		
L/	RL	/	/		/	/	//		
L/	RL	/	/		/ 	/	//		
L/	RL	/	/		/		//		
L/	RL	/	/		<u>/</u>	/	//		
L/	RL	<u>/</u>	/		/		//		
L/	RL	<u>/</u>	/		/ 		//		
L/	RL	/	/	1:0:	/ 		//		
37/	Up to	65 charac	eters of an	plifying comme	nts				-
X/								//_	4
((	Optional date item								
	Current coasta station	ıı radio							
M/		/		,	//				
	Onboard me resource								
V/									5

## (Notes)

- ① Line A (Ship's name, identification signal etc.)
  - (1) Ship's name

Ship's name is to be written in Kana or Roman letters followed by "(N)" or "(Naiko)."

(2) Identification signal etc.

Express the identification signal or ship's number.

Example1: A/NIHONMARU (N)/JJKN// for ship's name "Nihonmaru" and call sign "JJKN"

Example2: A/KAIHOMARU (N)/105087// for ship's name "Kaihomaru" and ship's number "105087"

② Date/time

All time must be expressed as a six-digit group giving date of month (first two digits), hours and minutes (last four digits). Only Universal Coordinated Time (i. e., Greenwich Mean Time) is to be used. The six-digit date-time-group is to be followed by Z.

Example: 201200Z for 1200 hours on the 20th (GMT)

## ③ Line L (Route information)

Express route information between the turn points along the intended route in accordance with the following explanations:

And L lines are needed at least three points, twelve point sat maximum. When a ship enters the service area, express latitude and longitude of the point of entrance and the date on the first line without fail.

(Navigation method)

Use RL for rhumb line.

(Average speed)

Express estimated average speed up to the intended turn point in three-digit group in knots and tenths of knots.

Example: 150 for a speed of 15.0 knots

(Latitude, longitude and estimated time of arrival)

Express them by referring to the following examples.

Example 1: Expressing the altering course point in latitude and longitude.

L/RL/120/3438N/13951E/251200J// for a speed "12.0 knots," latitude "34°38'N," longitude "139°51'E" and estimated arrival time "12:00 on the 25th."

Example 2: Expressing the altering course point in standard altering course/passing point code.

L/RL/130/21/251400J// for a speed "13.0 knots," standard altering course/passing point code "21" and estimated arrival time "14:00 on the 25th."

Note: If the altering course point is more than 25 miles from the standard altering course/passing point, express the altering course point in latitude and longitude.

#### 4 Line X (Reference data item)

These are optional, but when reported, provide ship's telephone number, DSC ID number, contents of the cargo and so on.

Example: X/61-1234/gasoline// for ship's telephone number "61-1234" and contents of the cargo "gasoline"

#### (5) Line V (On-board medical resources)

Select as appropriate from the following:

MD (physician), NURSE (nurse)

No entry is required when no medical resources are on board.

## 2) Position Report

		Position	Report	(Notes)
	(Required date items)		•	
	System name	Type of report		
	JASREP /	PR	//	
	Ship name	Identification Signal		1
A/	/		//	
	Date/time at specific position			2
B/	//			
	Latitude	Longitude		
C/	/			
	(Optional date items)			
	Current course			4
E/	//			
	Intended average speed			
F/	//			
	Current coastal radio station	Next coastal radio station, if any		
M/	/		//	
	Up to 65 charac	ters of amplifying comm	nents	
Χ/			//	5

## (Notes)

- ① Line A (Ship's name, identification signal etc.)
  - (1) Ship's name

Ship's name is to be written in Kana or Roman letters followed by "(N)" or "(Naiko)."

(2) Identification signal etc.

Express the identification signal or ship's number.

Example1: A/NIHONMARU (N)/JJKN// for ship's name "Nihonmaru" and call sign "JJKN"

Example2: A/KAIHOMARU (N)/105087// for ship's name "Kaihomaru" and ship's number "105087"

## ② Line B (Date/time)

All times must be expressed as a six-digit group giving date of month (first two digits), hours and minutes (last four digits). Japanese time is to be used. The six-digit date-time-group is to be followed by J.

Example: B/201200J// for 12:00 on the 20th (Japanese time)

- ③ Line C (Latitude and longitude)
  - (1) Expressing the position in latitude and longitude

Latitude is a four-digit group suffixed with "N" for north. Longitude is a five-digit group suffixed with "E" for east.

Example: C/3538N/13950E// for lat. 35° 38' N and long. 139° 50' E

(2) Expressing the position in standard altering course/passing point number.

Example: C/25// for standard course altering/passing point number "25"

4 Line E, F and M (Optional data items)

These optional data items are useful, but are not necessarily required to report.

When a report is made, express the current course on the E line in three-digit group, and estimated average speed for the entire passage on the F line in three-digit group in knots and tenths of knots.

Example: E/333//for a course of 333°

F/123//for a speed of 12.3 knots

## ⑤ Line X (Reference data item)

These are optional, but when reported, provide ship's telephone number, DSC ID number, contents of the cargo and so on.

Example: X/61-1234/gasoline// for ship's telephone number "61-1234"0Z//for the estimated time of next reporting at 1500 hours on the 25th (GMT)

## 3) Deviation Report

				Deviation Re	eport			(Notes
	(Required da	ite items)						
	System name			pe of report				
	JASREP /		,	DR //	1			
	Ship name	e	Identi	fication Signal				1
A/		/	1	//	1			
	(One or more	e from the	e followi	ng optional date ite	ems)			2
	Port of destina	ation	Esti	mated time of arrival				
I/		/	,	/		/	//	=
				Route info	ormation			
	Navigation method	Averag	e speed	Latitude	Longitude	Estimated time of arrival	Name of landmark or sea area	
L/	RL /	,		/		/ //	/	
L/	RL /	/		/		/ //	/	
	Onboard med resources							
M/		//	/					
	Current coastal station	radio						
V/		//	/					
	Up to	65 charac	cters of a	mplifying commen	ts			1
X/							//	1

## (Notes)

- ① Line A (Ship's name, identification signal etc.)
  - (1) Ship's name

Ship's name is to be written in Kana or Roman letters followed by "(N)" or "(Naiko)."

(2) Identification signal etc.

Express the identification signal or ship's number.

Example1: A/NIHONMARU (N)/JJKN// for ship's name "Nihonmaru" and call sign "JJKN"

Example2: A/KAIHOMARU (N)/105087// for ship's name "Kaihomaru" and ship's number "105087"

## ② Deviation items

Fill in the deviation items if there are any changes in sailing plan or other pre-reported matters.

Example: I/CHIBA201200J// for a case where the port of destination is changed from Tokyo to Chiba.

## 4) Final Report

		Final R	eport	(Notes)
	(Required date items)			
	System name	Type of report		
	JASREP /	FR	//	
	Ship name	Identification Signal		1
A/	/		//	
	Port of arrival	Time of arrival		2
K/	/		//	
	Up to 65 charac	cters of amplifying comn	nents	
X/			//	

## (Notes)

- ① Line A (Ship's name, identification signal etc.)
  - (1) Ship's name

Ship's name is to be written in Kana or Roman letters followed by "(N)" or "(Naiko)."

(2) Identification signal etc.

Express the identification signal or ship's number.

Example1: A/NIHONMARU (N)/JJKN// for ship's name "Nihonmaru" and call sign "JJKN"

Example2: A/KAIHOMARU (N)/105087// for ship's name "Kaihomaru" and ship's number "105087"

## ② Date/time

All times must be expressed as a six-digit group giving date of month (first two digits), hours and minutes (last four digits). Japanese time is to be used. The six-digit date-time-group is to be followed by J.

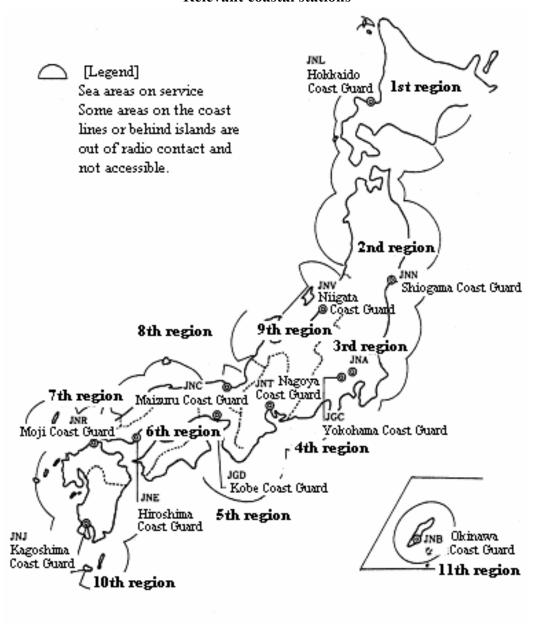
Example: B/201200J// for 12:00 on the 20th (Japanese time)

## (2) Reporting instructions

As a rule, reports should be sent through radiotelegraphic calls to the relevant coastal stations of Japan Coast Guard. In this case, there is no reporting charge.

Methods other than radiotelegraphic calls, including TELEX to Japan Coast Guard, written documents, public telegram or public phone to the nearest coast guard station or communication controlling office, are also acceptable with communication charges.

#### **Relevant coastal stations**



Where to send TELEX
Japan Coast Guard, Guard and Rescue Department
Control Division, Operation Command Center
TELEX No.222-5193

(Answer back code: 2225193 JMSAHQJ)

## ② Designated Coastal Radio Station

Identification signals	Receiving frequency (kHz)	Transmitting frequency (kHz)
Hokkaido Coast Guard Radio 004310101 JNL	F3E 156.6 MHz 156.8 MHz F1B 2189.5(DSC)	F3E 156.6 MHz F1B 2177(DSC) J3E 2150 2394.5
Shiogama Coast Guard Radio 004310201 JNN	F3E 156.6 MHz 156.8 MHz F1B 2189.5(DSC)	F3E 156.6 MHz F1B 2177(DSC) J3E 2150 2394.5
Yokohama Coast Guard Radio 004310301 JGC	F3E 156.6 MHz 156.8 MHz F1B 2189.5(DSC)	F3E 156.6 MHz F1B 2177(DSC) J3E 2150 2394.5
Nagoya Coast Guard Radio 004310401 JNT	F3E 156.6 MHz 156.8 MHz F1B 2189.5(DSC)	F3E 156.45 MHz 156.6 MHz FIB 2177(DSC) J3E 2150 2394.5
Kobe Coast Guard Radio 004310501 JGD	F3E 156.6 MHz 156.8 MHz F1B 2189.5(DSC)	F3E 156.45 MHz 156.6 MHz F1B 2177(DSC) J3E 2150 2394.5
Hiroshima Coast Guard Radio 004310601 JNE	F3E 156.6 MHz 156.8 MHz F1B 2189.5(DSC)	F3E 156.6 MHz F1B 2177(DSC) J3E 2150 2394.5
Moji Coast Guard Radio 004310701 JNR	F3E 156.6 MHz 156.8 MHz F1B 2189.5(DSC)	F3E 156.6 MHz F1B 2177(DSC) J3E 2150 2394.5
Maizuru Coast Gurad Radio 004310801 JNC	F3E 156.6 MHz 156.8 MHz F1B 2189.5(DSC)	F3E 156.6 MHz F1B 2177(DSC) J3E 2150 2394.5
Niigata Coast Guard Radio 004310901 JNV	F3E 156.6 MHz 156.8 MHz F1B 2189.5(DSC)	F3E 156.6 MHz F1B 2177(DSC) J3E 2150 2394.5
Kagoshima Coast Guard Radio 004311001 JNJ	F3E 156.6MHz 156.8 MHz F1B 2189.5(DSC)	F3E 156.6 MHz F1B 2177(DSC) J3E 2150 2394.5
Okinawa Coast Guard Radio 004311101 JNB	F3E 156.6 MHz 156.8 MHz F1B 2189.5(DSC)	F3E 156.6 MHz FIB 2177(DSC) J3E 2150 2394.5

## **Chapter 7** Communication for Maritime Disasters

Japan Coast Guard (JCG) monitors the distress frequency corresponding to GMDSS on a 24-hour basis with the coastal stations and patrol vessels in action and maintain a system of taking prompt actions all times to ensure quick and appropriate maritime rescues.

Along with introduction of the GMDSS, we operate the land facilities of the COSPAS/SARSAT system.

Moreover, JCG will commence operation of the 3-digit telephone number, "118", from May 1,2000. This is the emergency number to report incidents and accidents at sea.

Since this number can be accessed using private and public telephones, shipboard phones and cellular phones, please dial "118" wherever you are when you encounter a marine accident or emergency or observe a ship behaving suspiciously.

#### 1. Distress Communication

In the event that a marine casualty occurs, notice should be directed immediately to the nearest Coast Guard Office Station.

Liaison should be made correctly for the following items as far as practicable.

- (1) Position
- (2) Name of ship
- (3) State of the casualty
- (4) Number of persons carried on board the ship
- (5) Information on persons dead or missing
- (6) Tonnage of the ship
- (7) Availability of power for communication
- (8) Type of ship
- (9) Type of cargo carried
- (10) The sea and weather conditions of the scene of marine casualty

## 2. List pf regional coast guard headquarters and other offices

JCG Offices & Stations	Phone No.
1st Regional Coast Guard	0124(27)0119
Headquarters	0134(27)0118
Hakodate Coast Guard Office	0138(42)1118
Esashi Coast Guard Station	0139(52)5118
Setana Coast Guard Station	01378(7)2634
Otaru Coast Guard Office	0134(27)6118
Muroran Coast Guard Office	0143(23)0118
Tomakomai Coast Guard Station	0144(33)0118
Urakawa Coast Guard Station	0146(22)9118
Kushiro Coast Guard Office	0154(22)0118
Rumoi Coast Guard Office	0164(42)9118
Hiroo Coast Guard Station	01558(2)0118
Wakkanai Coast Guard Office	0162(22)0118
Monbetsu Coast Guard Office	0158(23)0118
Abashiri Coast Guard Station	0152(44)9118
Nemuro Coast Guard Office	0153(24)3118
Rausu Coast Guard Station	0153(87)2274
2nd Regional Coast Guard	022(262)0111
Headquarters	022(363)0111
Aomori Coast Guard Office	017(734)2421
Hachinohe Coast Guard Office	0178(33)1221
Kamaishi Coast Guard Office	0193(22)3820
Miyako Coast Guard Station	0193(62)6560
Miyagi Coast Guard Office	022(363)0114
Ishinomaki Coast Guard Station	0225(22)8088
Kesennuma Coast Guard Station	0226(22)7084
Akita Coast Guard Station	018(845)1621
Sakata Coast Guard Station	0234(22)1830
Hukushima Coast Guard Office	0246(53)7111
3rd Regional Coast Guard	045(211)0118
Headquarters	043(211)0118
Ibaraki Coast Guard Office	029(263)4118
Kashima Coast Guard Station	0299(92)2601
Chiba Coast Guard Office	043(301)0118
Kisarazu Coast Guard Station	0438(30)0118
Choshi Coast Guard Office	0479(21)0118
Katsuura Coast Guard Station	0470(73)4999
Tokyo Coast Guard Office	03(5564)1118
Yokohama Coast Guard Office	045(671)0118
Kawasaki Coast Guard Station	044(266)0118
Ogasawara Coast Guard Station	04998(2)7118
Yokosuka Coast Guard Office	046(862)0118
Shounan Coast Guard Station	0466(22)4999
Shimizu Coast Guard Office	0543(53)0118
Omaezaki Coast Guard Station	0548(63)4999
Shimoda Coast Guard Office	0558(23)0118
4th Regional Coast Guard	,
Headquarters	052(661)1611
Nagoya Coast Guard Office	052(661)1615

JCG Offices & Stations	Phone No.
Chubu Airport Coast Guard Air	05(0(20)0110
Station	0569(38)8118
Kinuura Coast Guard Station	0569(22)4999
Mikawa Coast Guard Station	0532(34)0118
Yokkaichi Coast Guard Office	059(357)0118
Owase Coast Guard Office	0597(25)0118
Toba Coast Guard Office	0597(25)0118
5th Regional Coast Guard Headquarters	078(391)6551
Osaka Coast Guard Office	06(6571)0221
Sakai Coast Guard Station	072(244)1771
Kishiwada Coast Guard Station	072(422)3592
Kobe Coast Guard Office	078(331)2027
Nishinomiya Coast Guard Station	0798(22)7070
Himeji Coast Guard Station	079(231)0563
Wakayama Coast Guard Office	073(402)5850
Kakogawa Coast Guard Station	079(435)0671
Tanabe Coast Guard Office	0739(22)2000
Kainan Coast Guard Station	073(492)0134
Kushimoto Coast Guard Station	0735(62)0226
Tokushima Coast Guard Office	0885(33)2246
Kochi Coast Guard Office	088(832)7111
Sukumo Coast Guard Station	0880(65)8117
Tosashimizu Coast Guard Station	0880(82)0464
Kansai Airport Coast Guard Air Station	072(455)1235
6th Regional Coast Guard Headquarters	082(251)5111
Mizushima Coast Guard Office	086(444)9701
Tamano Coast Guard Office	0863(31)3423
Hiroshima Coast Guard Office	082(253)3111
Yanai Coast Guard Office	0820(23)2250
Iwakuni Coast Guard Station	0827(21)6118
Kure Coast Guard Office	0823(26)0118
Onomichi Coast Guard Office	0848(22)2108
Fukuyama Coast Guard Station	084(943)5950
Tokuyama Coast Guard Office	0834(31)0110
Takamatsu Coast Guard Office	087(821)7011
Syodoshima Coast Guard Station	0879(82)1279
Sakaide Coast Guard Station	0877(46)5999
Matsuyama Coast Guard Office	089(951)1196
Imabari Coast Guard Office	0898(22)0118
Niihama Coast Guard Station	0897(32)0118
Uwajima Coast Guard Office	0895(22)1256
7th Regional Coast Guard	, ,
Headquarters	093(321)2931

JCG Offices & Stations	Phone No.
Senzaki Coast Guard Office	0837(26)0241
Hagi Coast Guard Station	0838(22)4999
Moji Coast Guard Office	093(321)3215
Shimonoseki Coast Guard	
Station	0832(67)1711
Ube Coast Guard Station	0836(21)2410
Kanda Coast Guard Station	093(436)3356
Wakamatsu Coast Guard Office	093(761)2497
Fukuoka Coast Guard Office	092(281)5865
Miike Coast Guard Office	0944(53)0521
Karatsu Coast Guard Office	0955(74)4321
Imari Coast Guard Station	0955(28)3388
Nagasaki Coast Guard Office	095(827)5133
Iki Coast Guard Station	0920(42)0508
Goto Coast Guard Station	0959(72)4999
Sasebo Coast Guard Office	0956(31)6003
Hirado Coast Guard Station	0950(22)3997
Tsushima Coast Guard Office	0920(52)0640
Hidakatsu Coast Guard Station	0920(86)2113
Oita Coast Guard Office	097(521)0112
Saeki Coast Guard Station	0972(22)4999
8th Regional Coast Guard	0772(76)4100
Headquarters	0773(76)4100
Tsuruga Coast Guard Office	0770(22)0191
Obama Coast Guard Station	0770(52)0494
Fukui Coast Guard Station	0776(82)4999
Maizuru Coast Guard Office	0773(76)4120
Miyazu Coast Guard Station	0772(22)4999
Kasumi Coast Guard Station	0796(36)4999
Sakai Coast Guard Office	0859(42)2531
Tottori Coast Guard Station	0857(32)0118
Oki Coast Guard Station	08512(2)4999
Hamada Coast Guard Office	0855(27)0770

JCG Offices & Stations	Phone No.	
9th Regional Coast Guard	025(245)0110	
Headquarters	025(245)0118	
Niigata Coast Guard Office	025(247)0118	
Sado Coast Guard Station	0259(27)0118	
Jyoetsu Coast Guard Station	025(543)4118	
Fushiki Coast Guard Office	0766(45)0118	
Kanazawa Coast Guard Office	0762(66)6118	
Nanao Coast Guard Office	0767(52)9118	
Nto Coast Guard Station	0768(74)8118	
10th Regional Coast Guard	000(250)0000	
Headquarters	099(250)9800	
Kumamoto Coast Guard Office	0964(52)3103	
Amakusa Coast Guard Station	09697(3)3194	
Miyazaki Coast Guard Office	0987(22)3021	
Shibushi Coast Guard Station	0994(72)4999	
Hososhima Coast Guard Station	0982(52)8695	
Kagoshima Coast Guard Office	099(222)6680	
Kiire Coast Guard Station	0993(45)0125	
Ibusuki Coast Guard Station	0993(34)2999	
Kushikino Coast Guard Office	0996(32)2205	
Amami Coast Guard Office	0997(52)5811	
Koniya Coast Guard Station	0997(72)2999	
11th Regional Coast Guard	098(867)0118	
Headquarters		
Nago Coast Guard Station	0980(53)0118	
Nakagusuku Coast Guard Office	098(938)7118	
Ishigaki Coast Guard Office	0980(83)0118	
Miyakojima Coast Guard	0980(72)0118	
Station	0700(72)0110	

## PART 4 GUIDE TO SAFE NAVIGATION

Japan Coast Guard has been providing guidance with stress laid on the following three points on the basis of the results of analytical studies on the recent trend of marine casualties involving foreign ships and major marine casualties.

- ① To obtain information on sea and weather conditions, and early sheltering when there are threats of bad weather
- ② To keep on board nautical charts covering the sailing route of the ship and adjacent sea areas
- ③ To verify operating conditions and performance of the main engine and essential auxiliaries of the ship through starting stopping and go ahead go astern trials and tests before entering heavily congested sea areas.

These three points are fundamental requirements for safe navigation. Nevertheless, they are extremely important. Every master and navigating officer is therefore requested to strictly observe these points.

# Chapter 1 Information on Sea and Weather Conditions and Early Sheltering when there is Threat of Bad Weather

Try to obtain the latest information on sea and weather conditions before departure or when the ship is at sea.

When warnings or advisories are issued, or when there are threats of bad weather, the necessary steps must be taken without delay, i. e., cancel the scheduled departure, or leave for shelter as soon as possible.

To select a shelter, use pilots and charts for reference.

## **Emergency Entry**

When the need arises for foreign ships to enter in an emergency the territorial waters or inland sea of another nation for various reasons: not under command due to serious hull or machinery damage, to shelter from bad weather, or to send patients who are badly injured or sick to hospital for immediate medical treatment by specialist physicians, such entry is generally accepted as an international custom.

Japan Coast Guard is always in full readiness to provide immediate and reliable assistance for any ship requiring emergency entry. A foreign ship intending to make an emergency entry to the territorial waters of Japan is requested to observe the following precautions.

- 1. Request for emergency entry should be based on justfiableneed to avoid an imminent danger threatening the ship, cargo, or crew.
- 2. When an emergency entry is made, a notice of entry including the following particulars should be directed to the nearest Coast Guard Office or Station, or a coastal station of the Japan Coast Guard:
  - (1) Nationality
  - (2) Type
  - (3) Name of ship
  - (4) Call sign
  - (5) Gross tonnage
  - (6) Number of crew
  - (7) Name of ship's owner and ship's agent
  - (8) Reasons for emergency entry and planned position
  - (9) Circumstances of emergency entry
  - (10) Details of necessary assistance such as medical treatment, repair, and supply
  - (11) Other necessary items
- 3. Sufficient advance surveys should be carried out in the sea area (including port and bay) with assistance given by ship's agents and others, and when entry is made, extreme care must be taken so that no damage is caused to fishing equipment and the installations of the inhabitant fishermen, and that the channel is not blocked by the intended entry.
- 4. The specified International Code flags should be flown. (The call sign of own ship, "UP")
- 5. When repairers are to be arranged, a suitable agent should be determined.
  - Communications with the nearest Coast Guard Station or the Coast Station of the Japan Coast Guard and the ship's agent should be established.
- 6. During entry, laws and regulations of Japan should be observed, and at the time, a system of communications with the nearest Coast Guard Station or the Coast Station of the Japan Coast Guard and the ship's agent should be established.
- 7. The ship must leave the area soon after realizing that emergency entry is no longer necessary.
  - When leaving, a notice should be given to the nearest Coast Guard Station or a Coastal Station of the Japan Coast Guard stating name of ship, date and place of leaving, and other particulars.

## **Chapter 2** Carrying on Board Essential Charts for Safe Navigations

Standards of Charts Required for Safety of Navigation

Ships sailing in areas around Japan shall carry on board the nautical charts for the sea areas of scheduled navigation according to the following table. Foreign charts with similar size and scale published by foreign governments based on WGS-84 are acceptable.

To grasp the situation of scheduled navigation, it's encouraged to carry on board "Sailing Directions", "Tide Table", "List of Fishing Gear Gixed Places" and so on.

In Ship Safety Law, Ships which are not obliged to carry charts on board should carry charts or "Small Ship's Navigation Guide" as long as possible.

Classification of sea area of scheduled navigation	Charts required for safety of navigation
Outside of Japanese territorial waters (The high seas adjacent to approach to Japanese waters)	Charts of scale larger than 1/500,000
Within Japanese territorial waters	Charts of scale larger than 1/250,000
Sea areas to which the Maritime traffic Safety Law applies	Charts related to sea area of scheduled navigation (See attached table)
Sea areas to where Japanese Port Regulation Law applies	Charts of the largest scale of those related to the sea area of scheduled navigation

Note: When a correction is made by Notices to Mariners, the charts shall be updated immediately.

# ♦ List of Charts Required for Safety of Navigation When Sailing in Sea Areas to Which the Maritime raffle Safety Law Applies (Limited to the charts issued by Japan Coast Guard)

Navigation sea area	Chart (chart No.) required for safety of navigation (Those marked* should be equipped as much as possible)
Northern part of Tokyo Bay	W1061
[Northern part of Tokyo Wan]	
Uraga Channel	W90 W1062 W1081
[Uraga Suido]	W70 W1002 W1001
Ise Bay	W1051
[Ise Wan]	W 1031
Mikawa Bay	W1052
[Mikawa Wan]	W 1032
Irago Channel	W1051 W1052 W1064
[Irago Suido]	W1051 W1053 W1064
Kii Channel	WEE WILLOW WILLOW
[Kii Suido]	W77 W106 W150C
Osaka Bay	WILCOA
[Osaka Wan]	W150A
Strait of Akashi	WHO C WHO I WHO I
[Akasi Kaikyo]	W106 W131 W150A
Strait of Naruto	
[Naruto Kaikyo]	W112
Sea of Harima	
[Harima Nada]	W106 W150B
Northernwest sea area of Shodosima	W1114
Strait of Bisan	WIII4
[Bisan Seto]	W137A W137B W153 W1122
Mizushima Port and Approaches	
[Mizushima Ko and Approaches]	W1116
Sea of Bingo	W130 W137B W153
[Bingo Nada] Sea of Hiuchi	
	W130 W153 W1128
[Hiuchi Nada]	
Strait of Kurushima	W104 W132* W141 W1108
[Kurusima Kaikyo]	
Sea of Aki	W141
[Aki Nada]	
Hirosima Bay	W142
[Hirosima Wan]	
Sea of Iyo	W1102
[Iyo Nada]	
Strait of Oobatake	W152* W163
[Oobatake Seto]	
Sea of Suo	W1101
[Suo Nada]	
Bungo Channel	W151 W1218
[Bungo Suido]	11101 11110
Near Strait of Kanmon	W127 W135 W1262
[Kanmon Kaikyo and Approaches]	11127 11130 111202

<sup>\*</sup> Besides this chart, please use nautical charts issued by Japan Hydrographic Association.

## Items to be Complied to Prevent Casualty of Running Aground

Please comply the following items to prevent the casualty of running aground.

## 1. Carriage of charts, etc.

The ship shall carry charts to satisfy the attached "Standards of Charts Required for Safety of Navigation."

It should also carry nautical publications required for the scheduled navigation including pilot book and tide table.

Ships for which charts, etc. are not required by the Ships Safety Law should carry charts or nautical publications such as chartlets for Yacht / motor boat as far as practical.

## 2. Proper use of Charts

- (1) The charts shall always be readily available during navigation.
- (2) The charts shall be corrected and up-to-date according to the latest Notices to Mariners.
- (3) The scales of charts to be used shall comply with the attached "Standards of Charts Required for Safety of Navigation" to meet the sea area of navigation.
- (4) Prior to navigation, course line and other notes shall be plotted in writing on the chart.
- (5) Prior to navigation, information to avoid obstacles such as danger line shall also be written on the chart.
- (6) In case of using WGS-84 charts with Satellite Navigation System such as GPS, the selecting function of geodetic datum on instruments shall be selected to "WGS-84".

## 3. Prepare Your Course in Advance

The charts and all nautical publications shall be sufficiently studied and updated well before making a navigation plan. All the conditions of the navigation sea area shall be understood in advance.

## 4. Confirming Ship Position

Keeping in mind the conditions of the neighboring sea area, the exact position of your ship shall be constantly checked and updated.

## 5. Performing Lookout

- (1) Lookout shall be performed during navigation, including the time of anchoring.
- (2) At night and when the visibility is poor, careful lookout shall be continued.
- (3) Special care shall be taken when using the automatic maneuvering because the lookout tends to be neglected due to nobody at the bridge or dozing.

## 6. Information of Weather Conditions and Underwater Environmental Conditions

The latest information on weather and oceanographic conditions shall be obtained. Often a

vessel cannot follow the intended course line due to the effects of wind and tidal current.

## 7. Select Good Anchorage & Do Not Drag Anchor

- (1) The anchorage where the anchor holds well shall be selected by large-scale charts, and the dragging of anchor shall be prevented by two anchor mooring if necessary.
- (2) To discover dragging anchor early, the exact position of your ship shall be confirmed during anchorage, relevent.

## 8. Obey All Marine Traffic Laws / Regulations

- (1) The contents of maritime traffic laws / regulations such as the Law for Preventing Collisions at Sea, Maritime Traffic Safety Law, and Port Regulation Law, including guidelines, applied to the intended sea area of the navigation shall be understood and complied with.
- (2) Especially as to local rules, items applicable to the intended sea area of the scheduled navigation shall be sufficiently checked in advance.

## 9. Prevention of Dozing

Since the causes of running aground casualty include dozing, a strict watch-keeping shall be maintained and also the onboard working environment, etc. shall be taken into due consideration.

## 10. Maintainance of Communication with the Vessel Traffic Service Center, etc.

- (1) Ships carrying VHF radio telephone shall maintain a watch on Channel 16 (156.8 Mhz) during navigation. Especially when it is sailing within the sea area to which the Maritime Traffic Safety Law and Port Regulation Law apply, Channel 16 shall be always watched.
- (2) When navigating the Japanese coast area, officers who understand Japanese or English shall be on board, when sailing within sea area to which the Maritime Traffic Safety Law and Port Regulation Law apply, these officers shall always be on duty. All Information from the Vessel Traffic Service Center is given in Japanese or English All.

#### 11. Others

- (1) When entering or leaving a port or sailing on a traffic route, a ship not familiar with navigating in a congested with traffic area shall have a pilot on board as far as possible, even if the ship is not subjected to the compulsory employment of the pilot.
- (2) If you are not well acquainted with the area do not sail at night or when there is poor visibility or when the tidal current is strong.
- (3) Should any accident occur, the shipowner is responsible for taking actions against spill of oil and removing the hull, and so the shipowner shall contract the insurance (P.I. insurance) of a sufficient amount.

# Chapter 3 Verifying Operating Conditions and Performance of the Main Engine and Essential Auxiliaries of the Ship through Starting/Stopping and Go ahead/Go astern Trials and Tests before Entering Heavily Congested Sea Areas

It has been recently reported that the percent share of machinery failure of the total number of ships requiring rescueis 25%, and 22% of this category occurred in sea areas featured by heavy traffic congestion.

Machinery failures in such congested waters can cause secondary accidents such as grounding and collision with other ships.

To prevent machinery failures, the following points must be observed:

- Before entering heavily congested sea areas, stating/stopping and go ahead/go astern trials of the
  main engine, operating condition checks on remote manoevring systems, variousauxiliarities and
  steering gears, and if possible, mooring trials must be carried out to confirm that machinery
  operates properly.
- 2. Fuel oil should be transferred outside heavily congested sea areas.
- 3. Before departure, thorough checks on remote manoeuvring systems and other machinery, including the steering gears should be done, and if possible, sufficient mooring trials should be carried out, whereby the propre operating conditions of machinery should be verified.

When unmooring with tug assistance, checks should be made on the performance of the main engine at a suitable water area before tugs are dismissed.

- 4. If there is a crew transfer, the operating procedures for a variety of machinery and equipment and records of adjustments must be carried over from the persons leaving to the persons arriving.
- 5. If the ship becomes not under command due to a machinery failure, take all necessary steps immediately for safety of your own ship, and at the same time, notify that the ship is in a state of not under command to other ships in the vicinity through international VHF radiotelephone, lights, shapes and all available means of communication, to prevent collisions.
- 6. Not only on the event of falling into a state of not under command, but when a ship has machinery trouble affecting its safe navigation, immediately notify the nearest Regional Maritime Safety Office or Station reporting the place of occurrence, outline of machinery trouble and emergency steps taken, etc..

## **REFERENCE** Fisheries in Waters along the Coasts of Japan

Fishing activities are brisk all year-round in waters along the coasts of Japan.

The typical fishing methods and fishing gear used by fisheries in these sea areas are described below.

Masters and navigating officers are requested to make themselves familiar with them to ensure safe navigation in these waters.

## 1. Fishing Gear and Fishing Methods

## (1) Trawlnet fisheries

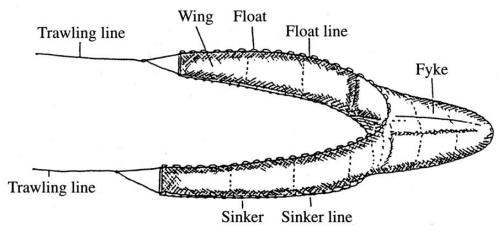


Fig. R-1 Trawl Net

The major trawl net fishing methods are as follows.

## 1) Small motorboat trawling

This is a trawl net fishing method using a small motorboat with a gross tonnage of less than 15 tons. There are several variations in this trawl net fishing method. Generally, it is carried out by one motorboat but in some cases, it is done by two boats. (See Figs. R-2 and R-3)

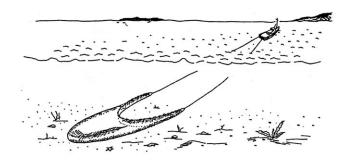


Fig. R-2 Small Motorboat Trawling (trawl by one boat)

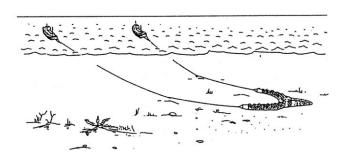
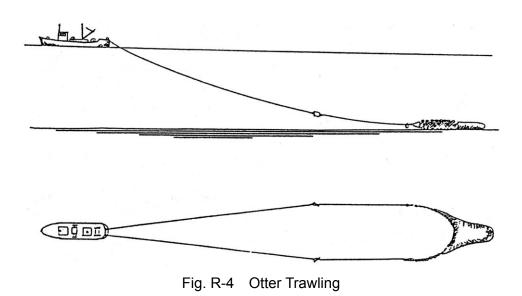


Fig. R-3 Small Motorboat Trawling (two boat)

## 2) Otter trawling

Otter trawling forms the mainstream of off-shore and deep-sea trawl net fishing. Generally, the trawl net is drawn by one trawl boat, but in some cases it is drawn by two boats. (See Fig. R-4 and R-5)



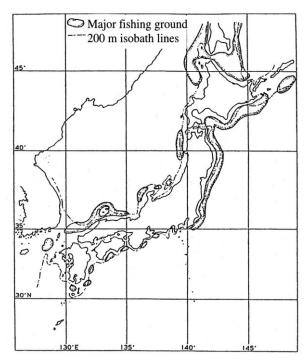
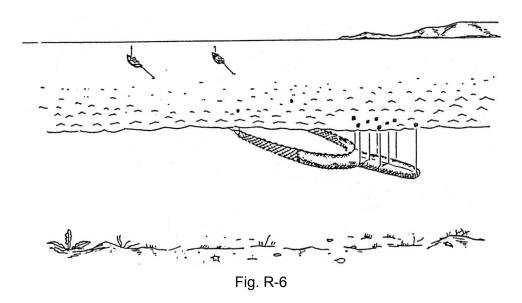


Fig. R-5 Fishing Grounds for Offshore Trawl

## (2) Boat seine fishing

Boat seine fishing uses trawl nets in waters other than bottom grounds, i.e., surface of water and intermediate depth. Because trawl nets are used either on the surface or of intermediate depth, numerous floats appear on the surface, and the nets are held near the surface.

The one shown in Fig. R-6 is called a patch net, which is typical of this fishing method.



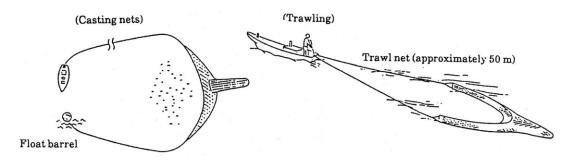


Fig. R-7 Shows the boat seine fishing with one boat.

## (3) Purse seine fishing

This is a fishing method to catch fish by enveloping schools of fish in a fishing equipment. Fishing boats using for this fishing method are from 2 to 3 tons for small-scale coastal operations, to about 100 tons of medium-sized or large size. The largest is some 500 to 1000 tons for deep-sea purse seine fishing.

Fig. R-9 shows the setup for two-boat purse seine fishing, where all the floats appear on the sea surface, thus characterizing this fishing method.

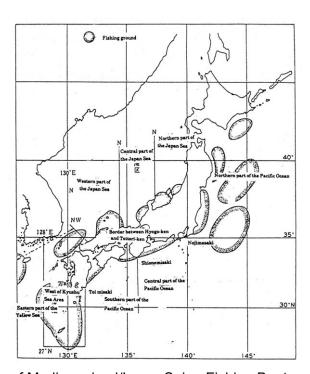


Fig. R-8 Operating Areas of Medium-sized/Large Seine Fishing Boats and Major Fishing Grounds

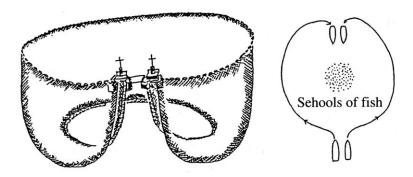


Fig. R-9 Purse Seine Fishing

## (4) Gill net fishing

Grill net fishing is a fishing method by which gill nets are set in a direction normal to the stream of moving schools of fish, whereby the nets entangle the gill covers of fish.

## (1) Surface gill net fishing

Surface gill net fishing is applied to catch fish in the surface or near surface layers. Gill nets, in this case, are seldom fixed, but are allowed to drift, in many cases, as mentioned later. With the fixed gill net fishing method, the direction of stretching gill nets is irrelevant to the directions of wind and tidal current, but they are normally set approximatately normal to the direction of current. Due to the nature of this fishing method, these nets are rarely arranged in congested waters. The length of the float line is greater in the western area (20 to 70 metres) and becomes smaller to north. (See Fig. R-10)

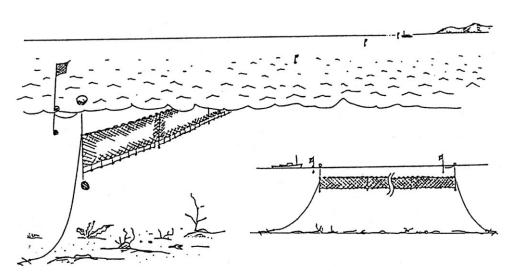


Fig. R-10 Fixed Gill Net Fishing

## (2) Bottom gill net fishing

The Bottom gill net fishing is a fishing method to catch fish in the bottom layer of water, and the nets are mostly fixed. Because bottom gill nets are fixed by anchors to the sea bottom, only floats and markers are seen on the sea surface. (See Fig. R-11)

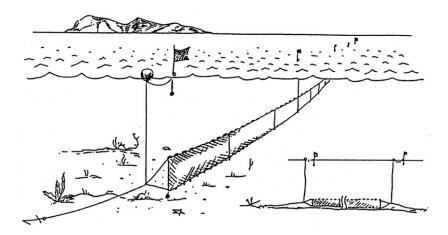


Fig. R-11 Bottom Gill Net Fishing

## (3) Drift gill net fishing

With this method, the installed position of gill nets is not fixed-they drift carried along by the wind or tidal current. The drift gill net fishing method is designed to catch schools of fish in the upper and middle layers of water.

Gill nets drift along the directions of wind and tidal current, but their depth varies according to the species of fish sought from the sea surface to a depth of 50 to 60 metres. When a line of floats and markers are seen (at intervals of 20 to 30 cm), this indicates a drift gill net for catching surface fish, and when they are seen in a line but at greater intervals of 20 to 30 metres, this indicates a drift gill net for catching fish in the lower layer or bottom. (Fig. R-12)

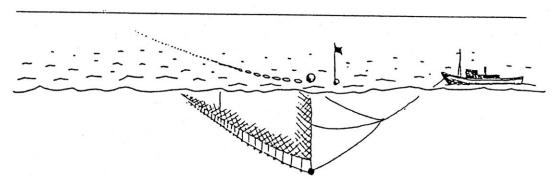


Fig. R-12 Drift Gill Net Fishing

### (5) Fixed net fishing

Fixed nets are arranged at a specific area for a considerable period.

Trap net fishing is the principal variation of fixed net fishing.

Trap nets are laid from inshore to offshore, and the bdg' net (a net connected at the end of the netword) is fitted with a marker flag, and a marker light is lit at night. Depending on the size, a marker flag and light are not provided. (See Fig. R-13)

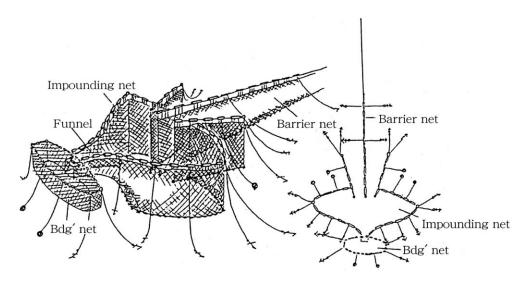


Fig. R-13 Trap Net Fishing

### (6) Pole and line fishing

Pole and line fishing is a method by which a number of fishing hooks are attached to a line.

## (7) Long-lining

Long-lining is a fishing method in which the long, laterally stretched main line has a number of branch lines attached, and fishing hooks are attached to the ends of the branch lines. Long lines are divided into long floating lines and long bottom lines. (See Figs. R-14 and R-15)

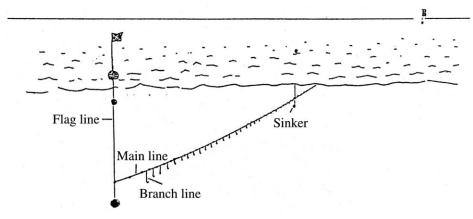


Fig. R-14 Floating Long-lining

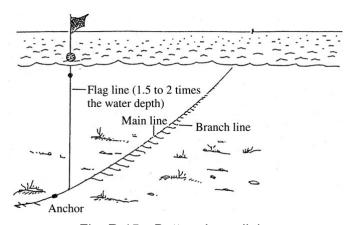


Fig. R-15 Bottom Long-lining

## (8) Line fishing

## (1) Octopus put fishing

By this fishing method, pots are laid on the sea bottom for two or three days to trap octopus. (See Fig. R-16)

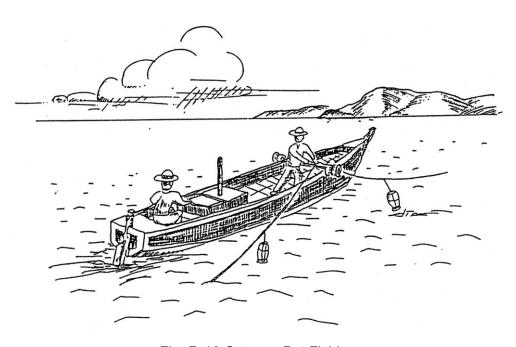
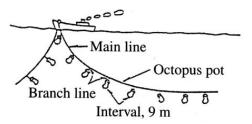


Fig. R-16 Octopus Pot Fishing



(2) Baskets are laid on the sea bottom to trap fish Example: Sea eel basket fishing (See Fig. R-17)

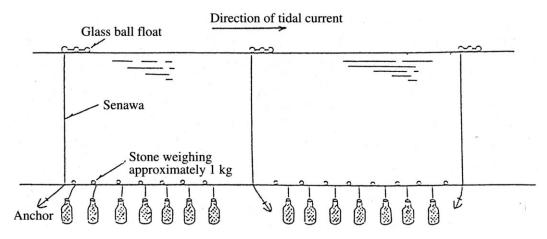


Fig. R-17 Sea Eel Basket Fishing

### (9) False shelter fishing

By the fishing method, pieces of wood, bamboo, and rice straw are placed underwater, and fishes entering the false shelter are caught. (See Fig. R-18)

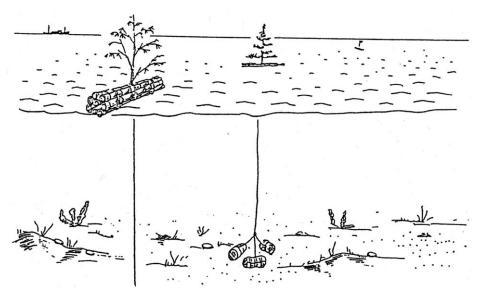


Fig. R-18 False Shelter Fishing for Dorado

#### (10) Fyke Net Fishing

With this fishing method, a fyke net is laid underwater to catch schools of fish, and is heaved up when sufficient fish are caught in the net. A typical example of this fishing method is fyke net fishing for sand launch seen in the Seto Inland Sea near Okayama-ken. (See Figs. R-19 and R-20)

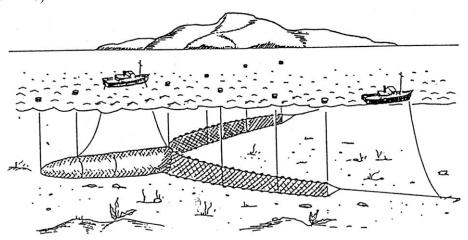


Fig. R-19 Fyke Net Fishing for Sand Launch

Fyke net fishing carried on in Bisan Seto might block the traffic route, and therefore, merchant ships proceeding through Bisan Seto are requested to strictly observe the requirements of the Maritime Traffic Safety Law and Regulations for Preventing Collisions at Sea, and in addition, to follow instructions given by patrol boats engaged in general patrol services to secure the safety of maritime traffic in this particular sea area. In the event of collision, contact or occurrence of damage to fishing gear, immediately notify the Bisan Seto Vessel Traffic Service Center or the nearest Regional Japan Coast Guard Office, Station or JCG's patrol boats.

Pay sufficient attention to the movements of fishing vessels engaged in fyke net fishing operations and other vessels. Try to obtain information, as necessary, on fyke net fishing operations from the Bisan Seto Vessel Traffic Service Center.

Reduce the ship's speed when proceeding through waters in the vicinity of the operating areas of fyke net fishing.

Huge vessels are requested to obtain information on fyke net fishing operations from the Bisan Seto Vessel Traffic Service Center, and top issue early warning signals as necessary.

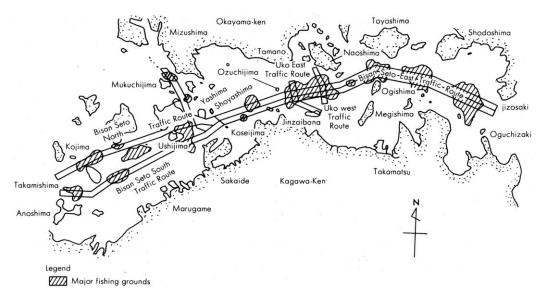


Fig. R-20 Fishing Grounds for Fyke Net Fishing

Fishing seasons for fyke net fishing in the Bisan Area:

15 January to 30 November; March-August: most active

# 2. Visual Recognition of Fishing Vessels/Fishing Gear and Recommended Measures to be Taken

If operating fishing vessels are seen when a ship is proceeding at sea, it can be assumed that fishing nets, lines and other fishing gear are arranged in the vicinity. However, if only fishing gear is arranged in the absence of fishing vessels, their discovery tends to delayed, and if it is windy with waves, the situation can be worse.

Visual Recognition of Fishing Vessels/Fishing Gear and Recommended Measures to be Taken

Scene	Judgement	Countermeasures	Remarks
12.00	Fixed net fishing	The fixed net cannot be	Fishing operations using
	Buoys and floats	crossed by a ship. The net	this method are carried out
× × × × × × × × × × × × × × × × × × ×	are arranged	stretches to a depth of 27 m	throughout waters along the
3	condinuously from	(15m in Okinawa, excluding	coasts of Japan.
- Land	inshore to	the inland sea). A small one	See the map of set net
	offshore.	stretches 100 metres from the	arrangements issued by the
	There are a flag	shore, but a large one reaches	Hydrographic Department
	and a light at the	2,000 to 3,000 metres. Special	of the Maritime Safety
	outer end, and the	attention must be paid when	Bureau. Pay attention to
	light is lit at night.	proceeding along the coast for	changes due to updating.
		sheltering, or when the ship	
		enters a bay.	
	Pole and line	Fishing boats for pole and line	Pole and line fishing is
- (	fishing A	fishing are often see in groups.	common in inland seas, bay
	fisherman is pole	Fishermen are often careless	area, and waters near
A Nove	and line fishing	about the passage of merchant	channels.
2 -	while rowing with	ships due to their concentration	
	one hand, and	on fishing. It is advisable to	
	without casting	attract their attention.	
	anchor.	When the ship has to clear an	
		area of fishing operations,	
		allow sufficient room on both	
		sides of the ship.	
	Pole and line	Boats' engines are normally	Often seen in inland seas,
	fishing	ready for immediate operation,	by area and waters near
	(motor-driven	so averting collision is easy for	channels.
	fishing boat)	both parties.	
	Motor-driven	In any case, leave sufficient	
	fishing boats engagedin pole	room for manoeuvring.	
	and line fishing do		
	not stay in a fixed		
. 4:17	area, but drift		
	along the flow of		
	currents.		
	Pole and line	Fishing operations using this	Often seen at the mouth of a
	fishing	method are often performed in	bay.
A A	(motor-driven	traffic routes.	Pleasure fishing on
side /	fishing boat)	Pay careful attention to their	Saturdays and Sundays by
	No anchor is cast.	movements, and if there is a	amateur fishermen often
	Fishing is carried	risk of collision, attract their	adopts this method, and
	on with the boat	attention and take	special precautions are
	heading windward	collision-averting manoeuvres	
	using a sail	with care.	
	Pole and line	Fishing operations are often	Fishing operations in day
	skipjack fishing	done in a large sea area.	time.
	Pole and line	It is advisable that collision	Pole and line skipjack
	skipjack fishing	averting manourvres are taken	fishing is carried on in sea
	operations are	earlier with an ample	areas along the Kuroshio
No comment of the second	done while	allowance of time left.	and its branches, necessary.
	spraying water		
	onto the sea surface.		

Scene	Judgement	Countermeasures	Remarks
	Trolling line fishing	Vessels carrying on trolling line fishing are not fishing vessels in a legal sense. It is, however, advisable that these vessels be avoided while paying sufficient attention to situation. It must also be remembered that the lengths of trolling lines are 40 to 50 metres.	Fishing operations in day time. Trolling line fishing is frequently carried on throughout the waters of bay areas and along the coast of Japan
	Stick-held dip net fishing for mackerel pike Marker fishing Squid fishing	These are often carried on in groups at night Sometimes search lights are used. It is advisable that no attempt be made to pass through a group of fishing vessels, and collision-averting manoeuvres should be done soon, while paying sufficient attention to neighbouring vessels.	Fishing operations at night. Seen throughout the waters along the coasts of Japan Stick-held dip nets are stretched out downstream of the tidal current Mackerel fishing is carried on with fishing vessels heading to windward.
	Drift net (drift gill net) fishing Marker flags are normally used for drift gill net fishing, but sometimes they are not used, must be taken	Buoys and floats are arranged between marker flags with lights.  Because gill nets are arranged 5 to 6 metres beneath buoys, the ship cannot pass over these nets.  Collision-averting manoeuvres in daytime.	Drift gill net fishing at night time. Yellowtail, flying fish, mackerel pike, salmon trout Drift gill net fishing Flying fish, mackerel pike There are only buoys (floats can submerge by 4 to 6 metres).
	Drift net fishing for Spanish mackerel. This is a form of drift gill net fishing.	Marker lights are provided at both ends and at the middle, and a float is provided at the middle.  The ship cannot pass over the net.  The sketch shows a scene in Setonaikai.	Setonaikai, Ise Wan, and areas in Kyushu. Pay attention to marker lights, as they have different colours.
	Bottom gill net fishing Cod, yellowtail, Rhinoraja, atka mackerel	Bottom gill nets are often fitted with a large buoy and marker lights. An operating boat stands by in the vicinity of the nets.  Passing over bottom gill nets poses no problem if no attempt is made to pass directly over the buoy.  Bottom gill nets are arranged in a direction normal to the current.	Often seen in the Japan Sea. Bottom gill net fishing is performed both during the day and at night

Scene	Judgement	Countermeasures	Remarks
Scene	Judgement Long-lining Salmon, trout long-lining  Bottom long-lining	Countermeasures It is hard to discriminate floating long-lining and bottom long-lining. Marker lights are provided at both ends of the line with an operating boat posted at either end. Pay attention to the fact that buoys are only arranged at intervals of 300 metres. In the case of floating long-lining, the main line is drawn in parallel with the direction of the tidal current. Don't approach buoys. Various baskets, bottom	Remarks  Northern part of the Japan Sea and off Hokkaido areas where long-line fishing is often carried on.  A variety of maker flags are
	Basket fishing Surf net fishing	long-lining are often seen in the coastal waters of Japan	used.
	Bottom long-lining Basket fishing Surf net fishing	The sketch shows a case where foam styrole resin is used.	Often seen in the coastal waters of Japan.
	Surf net fishing Octopus pot fishing Long-lining	This sketch shows a case in which foam styrole resin is used. It sometimes gives the false impression that it is merely a floating object.	Often seen in coastal waters of Japan.
	Surf net fishing Long-lining	The sketch shows a case in which natural plants are used as fishing gear.	Bay area and coastal waters.
	Octopus put fishing boat	When an attempt is made to pass over octopus pot lines, a sufficient distance must be kept from the octopus pot fishing boat.	Setonaikai, bay areas and coastal waters of Japan.
	Small motor-boat bottom trawl fishing Lobster net fishing	These fishing operations are often performed in inland seas and bay areas, and boats are sometimes operated in groups. Keep away from groups of these fishing boats.	Often performed at night. Fishing boats are small, ranging between 3 and 5 tons.

Scene	Judgement	Countermeasures	Remarks
	Small motor-boat	Trawling is carried on by one	Often seen in coastal waters
J	bottom trawl	motor-boat, provided with a	facing oceans, and traffic
	fishing	super-structure at poop. The	routes in inland waters.
		boat pulls a steel wise	
		connected to the bottom trawl	
		line.	
		Because the trawl line draws	
		for a considerable length,	
^^^-		collision-averting manoeuvres	
		must be done with a sufficient	
		allowance of time left.	
	Offshore	Offshore motor-boat bottom	Motor-boats range from 15
	motor-boat bottom	trawl fishing is maily	to 124 tons.
	trawl fishing	performed by one boat.	Fishing grounds are in
<b>光</b>		Because the trawl line is	offshore waters.
		relatively long,	This type of trawl fishing is
		collision-averting manoeuvres	carried on in waters with a
		must leave a sufficient	depth up to 500-600
		allowance of time.	
	Offels a :	metres.	In
· · · · · · · · · · · · · · · · · · ·	Offshore motor-boat bottom	When trawling is carried on by	In many cases, offshore bottom trawl boats range
_(	trawl fishing	two boats, the length of the trawl line is relatively short,	between 50 and 60 tons
	(2-boat trawl)	but a thick line is used. It can	Some are operated in the
	(2-00at trawr)	be easily identified as two	East China Sea and in the
		trawl boats move as a pair.	South Pacific Ocean.
		Collision-averting manoeuvres	South I define Seedin.
		must leave a sufficient	
		allowance of time.	
	Two purse seine	Two purse seine netters and	Small purse seine
	netters	two to three assisting boats	netters-motor boats with a
		operate as a group.	tonnage less than 5 tons, or
		Because there are buoys and	non-powered boats.
		floats on the sea surface, no	Medium-size purse seine
		attempt can be made to ass	nettefs-5 to 60 tons
		over the nets. Fish-collecting	In addition to the above,
		lights are scarcely used. The	medium-sized purse seine
		diameter of a purse seine net	netters are permitted to
		ranges from about 320 to 470 metres. In the case of one-boat	operate within designated
			fishing areas. Depending on
		operation, the diameter is about 160 to 320 metres.	the type of fishing, the use of fish collecting lights is
		Collision-averting manoeuvres	prohibited.
		must leave an ample allowance	promoneu.
		of time.	
	Sardine drag net	Because if is drawn by two	Often seen in Setonaikai
	(sardine drag net	boats, it gives the false	areas and Ise Wan.
	drawn by two	impression it is a bottom trawl	
	boats)	net, identification is possible	
		from the trailing buoy.	
		No attempt should be made to	
		come close to the net	
		Pay special attention when the	
		ship passes after the fishing	
		boat.	

Scene	Judgement	Countermeasures	Remarks
-	Purse seine netters	Two boats proceed side by side	Often seen in the morning
alat.	bound for a fishing	while drawing a small boat	or in the evening.
	ground, or before	bound for a fishing ground (or	
	casting the purse	on their home-ward trip). They	
	net.	carry a mountain of purse seine	
		nets on the poop.	
	Towing net fishing	A boat engaged in towing net	Often seen inland sea and
	by one boat	fishing makes a turn toward the	bay areas along the entire
		buoy marker located at the area	coast of Japan.
		where the towing net was first	Towing net fishing is
		throuwn, while towing the net.	frequently carried on by two
		When the net is heaved up, the	boats.
		boat casts anchor, so care must be	
		taken.	
		Extreme care must be taken when	
		the ship is proceeding close to the	
		coast.	
		Collision-averting manoeuvres	
		must be done giving an ample	
	False shelter	allowance.  Bundles of bamboo some	Often seen in the coasts of
	fishing for dorado	10-metre long are fixed to the sea	Kyushu, the Japan Sea side,
	fishing for dorado	bottom, and marker flags or pieces	and the southern part of
		of natural wood are provided.	Shikoku.
		In some cases, towing net fishing,	Silikoku.
		and net operations are carried on	
		in the vicinity, and the ship must	
-		pass with care.	
12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		The ship must not pass over the	
		false shelter for dorado.	
	Divers fishing	This is often the case for pen	Often seen in the inland sea
Comment of the second		shell fishing	and bay areas of the Chubu
		The fishing boat casts anchor	region and farther west.
		and flies flag "A".	
k .		No attempt should be made to	
		come close to such a boat.	
		Collision-averting manoeuvres	
	TZ .	must leave ample allowance.	Wid di Cili
	Kazeutase ami	This form of fishing is rarely seen	With this fishing method,
	fishing	these days, but sufficient care	nets are drawn with the aid
177		must be taken as nets are drawn in	of the wind (Setonaikai
		waters to the leeward, and	area). Seldom seen today.
		collision-adverting manoeuvres must be done with care.	Seldom Seen today.
	These marker flags	It is recommended that these	Coastal waters, inland sea and
	are generally used	marker flags and buoys are not	bay areas.
4	for fishing	to be passed over directly. It is	Marker flags or buoys provided
	(long-lining, surf	recommended to avoid them.	with lights could be for
\$500 P	net fishing,	They can, in some cases, be	long-lining, drift gill net
	octopus pod	connected together, so	fishing, etc. So sifficient care
The same of the sa	fishing, basket	sufficient care must be taken	must be taken to look out for
	fishing, etc.) and		fishing vessels in the vicinity.
	are frequently seen in the coastal		Precautions must be taken
			when casting anchors in the
	waters of Japan.		coastal waters or bay areas.