

# **Dalian VTS Guide for Users**

## **3<sup>rd</sup> Edition**

**DALIAN MARITIME SAFETY ADMINISTRATION OF P.R.CHINA**

**DALIAN VESSEL TRAFFIC SERVICE CENTER**

### **Introduction**

The aim of this Guide is to provide vessel traffic service users with a brief introduction to Dalian Vessel Traffic Service (hereinafter referred to as Dalian VTS), and the requirements of the Dalian Vessel Traffic Service Center (hereinafter referred to as VTS Center) concerning vessel traffic management and service, as well as relevant information, in order to promote the safety of navigation, maintain the order of vessel traffic, improve vessel traffic efficiency and environmental protection, promote the development of the shipping industry and achieve better understanding and cooperation between VTS Center and users.

Dalian VTS, established by Dalian Maritime Safety Administration, is a system that manages and controls vessel traffic and provides information services in order to strengthen the safety of vessel traffic, maintain the order of vessel traffic, improve its efficiency and protect environment.

In VTS Area, VTS Center is responsible for implementing vessel traffic management.

This edition of guide is the latest edition, which replaces the previous editions of Dalian VTS Guide for Users.

## **Management Bases**

VTS Center manages vessel traffic, provides vessels traffic service and supports joint action inside Dalian VTS Area in accordance with *the Maritime Traffic Safety Laws of P.R.C, the Safety Management Regulations of Vessel Traffic Service of P.R.C* relevant laws, rules and regulations, *and the Safety Management Regulations of Dalian Vessel Traffic Service.*

Following regulations have been implemented inside Dalian VTS Area: *Dasanshan Channel Traffic Separation Scheme inside Dalian Port, Ship's Routeing inside Laotieshan Channel, Ship Reporting Scheme inside Laotieshan Channel, the Implementation Regulation of Ship's Routeing inside Laotieshan Channel etc.*

# **System Introduction**

## **1. Component of Dalian VTS System:**

Dalian VTS consists of Dalian VTS Center, and a series of 6 radar stations located at Dagang, Huangbaizui, Mineral Terminal, Dayao Wan, Laotieshan and Sanyantou.

## **2. The configurations and functions of Dalian VTS:**

(1) Radar Surveillance Sub-system: Effective range of 30 miles with tracking and replaying function

(2) AIS Sub-system: Effective range of 30 miles and identifying ships automatically, sending and receiving AIS messages

(3) VHF Communication Sub-system: Effective range of 30 miles with multi-channel recording function

(4) VHF Direction Finder Sub-system: Effective range of 30 miles with the function of ships' positions identification

(5) Ship Data Processing Sub-system: Capacity of ship data processing 5,000 ships

(6) Meteorology monitoring Sub-system: Real time monitoring of meteorology data at the observation point

(7) CCTV Surveillance Sub-system: Assistant surveillance of terminals and the movements of ships

(8) Data recording and playback Sub-system: Data recording and playback of audio, visual and radar image.

## **3. Contact Information of VTS Center:**

Address: Floor 19, No 25 Changjiang Road, Dalian, Liaoning, P.R.China

Telephone: 00-86-411-82622716/82624002

Fax: 00-86-411-82622230

Post Code: 116001

Call sign: Dalian VTS Center

## **4. Service time of VTS Center: 0000-2400 (Beijing time)**

## **5. Working language of VTS Center:**

Mandarin and English

## **6. Dalian VTS Area:**

Dalian VTS Area (referred to as VTS Area) includes Dalian Port VTS Area and Laotieshan Channel VTS Area.

Dalian Port VTS Area means an arc centered on point Dasanshan Dao Lighthouse

(38°51.9'N, 121°49.5'E) radius 13 nautical miles.

Dalian Port VTS Area is divided into two sub-areas: Dalian Wan Sub-area and Dayao Wan Sub-area, which is bounded by Dasanshan Dao Lighthouse. West of Dasanshan Dao Lighthouse is Dalian Wan Sub-area and east of Dasanshan Dao Lighthouse is Dayao Wan Sub-area.

Laotie Shan Channel VTS Area means an arc centered on point Laotieshan Lighthouse (38°43.6'N, 121°08.1'E) radius 20 nautical miles:

### **7. The following areas can't be effectively covered by VTS radars:**

- (1) Adjacent waters near Xianglujiao Fairway;
- (2) Partial area of Dawu Fairway;
- (3) Partial area near the gate of Dayaowan Breakwater;
- (4) Adjacent waters near northwest of Snake Island.

### **8. Dalian VTS users**

Dalian VTS users include ships or facilities (hereinafter referred to as ships), which are sailing, berthing, and operating inside VTS Area, and relevant units and personnel.

Following ships should report to VTS Center when they are inside Dalian Port VTS Area:

- (1) Passengers;
- (2) Ships carrying dangerous goods ;
- (3) Ships engaged in towing or restricted in her ability to maneuver ;
- (4) Foreign ships ;
- (5) Other Chinese ships longer than 20 meters.

Following ships should report to VTS Center when they are inside Laotieshan Channel VTS Area:

- (1) Passengers;
- (2) Other ships not less than 300 gross tonnage;
- (3) Other ships less than 300 gross tonnage but join the VTS voluntarily

### **9. VHF Working Channels of Dalian VTS**

Dalian Port VTS Area:

Dalian Wan Sub-area: Ships inside this sub-area should stand by VHF CH06.

Dayao Wan Sub-area: Ships inside this sub-area should stand by VHF CH08.

Laotieshan Channel VTS Area: Ships inside this area should stand by VHF CH10.

All ships should stand by VHF CH16 when they are inside VTS Area.

## Information of other useful VHF channels

Dalian Coast Radio Station: VHF CH16/13

Dalian Pilot Station: VHF CH12

Dalian Port Operation Office: VHF CH13

Dayao Wan Container Terminal: VHF CH11

Dalian Xingang Oil Terminal: VHF CH14

Lvshun Xingang Operation Office: VHF CH12

Dalian Tug Company: VHF CH17

## ( I ) Ship Declaration and Berth Schedule Declaration

Report Pattern	Reporting Time	Reporting Method	Reporting Content
Pre-arrival declaration for Chinese ships engaged in domestic trade	Chinese ship, which engages in domestic trade, before entering VTS Area (except for transiting ship), should submit declaration on the Internet not less than 24 hours (or on her departure from the last port of call if the voyage takes less than 24 hours ) before arrival through shipping company or agent.	Website of declaration: <a href="http://www.lnmsa.gov.cn">www.lnmsa.gov.cn</a> . Log on the declaration system with user's name and password. Click 'Ship Declaration' and fill in the content of declaration sincerely and submit it. The ship can enter the VTS Area after the declaration has been approved.	Content of declaration: Ship's name, call sign, IMO number, deadweight, last port of call, destination, estimated time of arrival, estimated time of departure, maximum draft of arrival and departure, purpose of entry, name and quantity of cargo etc. and relevant information.

<p>Pre-arrival declaration for foreign ships or Chinese ships come from abroad or ships engaged in Three-way direct transportation</p>	<p>Foreign ships or Chinese ships which come from abroad or ships engaged in Three-way direct transportation, before entering VTS Area (except for transiting ships), should submit declaration on the Internet not less than 72 hours (or on her departure from the last port of call if the voyage takes less than 72 hours) before arrival through shipping company or agent.</p>	<p>Website of declaration: <a href="http://www.lnmsa.gov.cn">www.lnmsa.gov.cn</a>. Log on the system with user's name and password. Click 'Ship Declaration' and fill in the content of declaration sincerely and submit it. The ship can enter the VTS Area after the declaration has been approved.</p>	<p>Content of declaration: Ship's name, call sign, IMO number, deadweight, last port of call, destination, estimated time of arrival, estimated time of departure, maximum draft of arrival and departure, purpose of entry, name and quantity of cargo etc. and relevant information.</p>
<p>Declaration for berth schedule</p>	<p>Declaration for berth schedule should be submitted on the Internet within 24 hours before ship gets alongside berth by port operators.</p>	<p>Website of declaration: <a href="http://www.lnmsa.gov.cn">www.lnmsa.gov.cn</a>. Log on the system with user's name and password. Click 'Berth Schedule Declaration' and fill in the content of declaration sincerely and submit it. The ship can get alongside the berth after the declaration has been approved.</p>	<p>Content of declaration: estimated time of berthing, name of berth, maximum draft of arrival and departure, and relevant information.</p>
<p>Declaration for pilotage schedule</p>	<p>Declaration for pilotage schedule should be submitted to VTS Center within 24 hours before pilotage operation.</p>	<p>Pilotage schedule should be submitted to VTS Center through fax or other methods.</p>	<p>Pilotage schedule includes the information of ships and pilots, the area and duration of pilotage.</p>

## (II) Movement Report

Report Pattern	Reporting Time or Position	Reporting Method	Reporting Content
Entry Report	Upon entering VTS Area, ship should report to VTS Center.	Ship inside Dalian Wan Sub-area should report on VHF CH06; Ship inside Dayao Wan Sub-area should report on VHF CH08; Ship inside Laotieshan Channel VTS Area should report on VHF CH10.	<p>Ship entering port should report :</p> <ol style="list-style-type: none"> <li>1.Ship's name or call sign;</li> <li>2.Position;</li> <li>3.Draught;</li> <li>4.Purpose of entry;</li> <li>5.Other information required by VTS Center.</li> </ol> <p>Ship transiting Laotieshan Channel VTS Area should report:</p> <ol style="list-style-type: none"> <li>1.Ship's name or call sign;</li> <li>2.Position;</li> <li>3.Type of Ship;</li> <li>4.Last port of call and destination;</li> <li>5.Other information required by VTS Centre.</li> </ol>
Fixed Point Report (Dasanshan Dao Lighthouse) (38°51.9'N, 121°49.5'E)	Inside Dalian Port VTS area, upon passing this lighthouse, ship should report to VTS Center.	Ship inside Dalian Wan Sub-area should report on VHF CH06; Ship inside Dayao Wan Sub-area should report on VHF CH08; Ship shifting between two sub-areas, when passing this lighthouse, should switch VHF channels and report on corresponding VHF channel.	<ol style="list-style-type: none"> <li>1.Ship's name or call sign;</li> <li>2.Report passing Dasanshan Dao Lighthouse;</li> <li>3.Purpose of entry.</li> </ol>

Fixed Point Report (3 nautical miles to Zhongyuan Shipbuilding Breakwater Head (37°47.9'N, 121°07.1'E	Ship entering Lvshun Xingang, upon arriving at this report point, should report to VTS Center.	Ship should report on VHF CH 10.	1. Ship's name or call sign; 2. Report 3 nautical miles to Zhongyuan Shipbuilding Breakwater Head; 3. Purpose of entry.
Arrival Report	After arriving at the destination (get alongside berth or drop anchor at anchorage), ship should report to VTS Center.	Ship inside Dalian Wan Sub-area should report on VHF CH06; Ship inside Dayao Wan Sub-area should report on VHF CH08 ; Ship inside Laotieshan Channel VTS Area should report on VHF CH10.	1.Ship's name or call sign ; 2.Report the name of berth or anchor position ; 3.Time of berthing or anchoring.
Shift Report	Before shifting to berth or anchorage, ship should report to VTS Center.	Ship inside Dalian Wan Sub-area should report on VHF CH06; Ship inside Dayao Wan Sub-area should report on VHF CH08; Ship inside Laotieshan Channel VTS Area should report on VHF CH10.	1.Ship's name or call sign; 2.Present position; 3.Intended berth or anchorage.
Departure Report	Before leaving the berth or heaving up anchor, departure ship should report to VTS Center.	Ship inside Dalian Wan Sub-area should report on VHF CH06; Ship inside Dayao Wan Sub-area should report on VHF CH08; Ship inside Laotieshan Channel VTS Area should report on VHF CH10.	1.Ship's name or call sign; 2.Present position; 3.Application for departure.



Exit Report	When leaving the VTS Area, departure ship should report to VTS Center.	Ship inside Dalian Wan Sub-area should report on VHF CH06; Ship inside Dayao Wan Sub-area should report on VHF CH08 ; Ship inside Laotieshan Channel VTS Area should report on VHF CH10.	1.Ship's name or call sign; 2.Report exit VTS Area.
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### (III) Incident Report or Abnormality Report

Report Pattern	Reporting Time	Reporting Method	Reporting Content
Security Incident Report	When being involved in or finding security incidents, ship should report to VTS Center immediately.	Report through all efficient measures.	1. Ship Name or call sign; 2.Nationality; 3.Present position; 4.Type of ship; 5.Condition of seafarers and cargo on board; 6.Security incident or threat.
Incident Report	When being involved in or finding traffic incidents, pollution incidents, engine malfunction, injury of persons and/or any other emergency situations, ship should report to VTS Center immediately.	Report through all efficient measures.	1.Ship name or call sign; 2.Nationality; 3.Time & position of incident; 4.Causes of incident; 5.Requirement of salvage; 6.Cause of incident and information required by VTS Center.

<p>Abnormality Report</p>	<p>When finding abnormality of navigation aids; obstacles, drifting objects and/or any other unusual circumstances which might impede the safety of navigation, ship should report to VTS Center immediately.</p>	<p>Ship inside Dalian Wan Sub-area should report on VHF CH06; Ship inside Dayao Wan Sub-area should report on VHF CH08; Ship inside Laotieshan Channel VTS Area should report on VHF CH10.</p>	<p>1.Ship name or call sign; 2.Position; 3.Abnormality and other information required by VTS Center.</p>
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## (IV)Service

Traffic Service	Pilot Service
<p>VTS Centre can provide:</p> <ol style="list-style-type: none"> <li>1. Traffic information</li> <li>2. Weather information</li> <li>3. Navigational assistance (on request)</li> <li>4. Supporting joint actions</li> <li>5. Traffic organization</li> <li>6. Broadcast navigational warnings</li> </ol>	<ol style="list-style-type: none"> <li>1. Pilot Boarding Point of berths inside Dalian Wan area:               <ol style="list-style-type: none"> <li>(1) Pilot embarkation area: radius 0.5 nautical miles center on 38° 53.0'N, 121° 47.5'E;</li> <li>(2) Pilot disembarkation area: radius 0.5 nautical miles center on 38° 53.0'N, 121° 44.5'E.</li> </ol> </li> <li>2. Pilot Boarding Point of berths inside Dayao Wan and Xingang area:               <ol style="list-style-type: none"> <li>(1) Pilot embarkation/disembarkation area: radius 0.5 nautical miles center on 38° 54.0'N, 121° 56.5'E;</li> <li>(2) Pilot should embark or disembark VLCC, VLOC and LNG at the position 2 nautical miles south of above position.</li> </ol> </li> <li>3. Lvshun Xingang Pilot Boarding Point: Pilot embarkation/disembarkation area: radius 0.5 nautical miles center on 38° 48.0'N, 121° 04.0'E.</li> <li>4. Ships shift from anchorage (or to anchorage), should embark (or disembark) pilots at anchorage.</li> <li>5. Compulsory pilotage is applied to all foreign ships and Chinese ships required by competent authority to be piloted.</li> <li>6. Pilot should comply with the reporting system and report details of movement to VTS Center.</li> </ol>

## (V)Prohibitions

1. Except for emergency, it is prohibited to anchor outside of anchorage area without permission from VTS Center;
2. It is prohibited to run across channels or anchorages without permission from VTS Center;
3. It is prohibited to test main engine, carry out sea trial, measure ship speed, calibrate magnetic compass, or other activities which may affect the safety of navigation inside the channels, anchorages, port basins and adjacent waters without permission from VTS Center;

4. It is prohibited to fish, cultivate and other abnormal actions which may impede the order of traffic safety inside the channels, anchorages, port basins and adjacent waters;  
 5. It is prohibited to carry out surface or under-water activities inside VTS Area without permission from VTS Center.

**(VI)Anchorage**

Name of Anchorage	Range of Anchorage	Chart Depth (meters)	Area (km <sup>2</sup> )	Character of Bottom
No.1 Freight Quarantine Anchorage	38°57'00"N 121°46'00"E 38°57'00"N 121°41'00"E 38°56'18"N 121°41'00"E 38°55'00"N 121°46'00"E	8.3—17.8	18.023	Mud
No.2 Freight Quarantine Anchorage	38°59'08"N 121°46'55"E 38°59'08"N 121°42'30"E 38°57'39"N 121°42'30"E 38°57'39"N 121°46'55"E	9.4—12.8	17.461	Mud
Oil tanker Quarantine Anchorage	38°59'08"N 121°42'30"E 38°59'08"N 121°40'30"E 38°57'39"N 121°40'00"E 38°57'39"N 121°42'30"E	8—9.5	8.932	Mud
Xingang Freight Anchorage	38°53'00"N 121°57'30"E 38°55'00"N 121°57'30"E 38°55'00"N 122°02'00"E 38°53'00"N 122°02'00"E	28—33	23.98	Mud
Xingang Oil Tanker Anchorage	38°55'00"N 121°59'00"E 38°56'48"N 121°59'00"E 38°56'48"N 122°02'00"E 38°55'00"N 122°02'00"E	26.4—33	14.19	Mud
Dayaowan Anchorage (Freight only)	38°59'27"N 122°00'53"E 38°59'04"N 122°02'52"E 38°57'44"N 122°02'26"E 38°58'04"N 122°02'06"E	19.5—26	7.25	Mud

Lvshun Xingang No.1 Anchorage (Freight only)	38°50'36"N 121°02'50"E 38°50'36"N 121°04'45"E 38°48'12"N 121°04'45"E 38°48'12"N 121°03'42"E 38°49'46"N 121°02'50"E	40	10.5	Mud
Lvshun Xingang No.2 Anchorage (Freight only)	38°56'00"N 120°54'24"E 38°56'00"N 120°58'48"E 38°48'12"N 120°58'48"E 38°48'12"N 120°54'24"E	50—64	91.9	Mud

# (Map of Dalian Port VTS Area)

