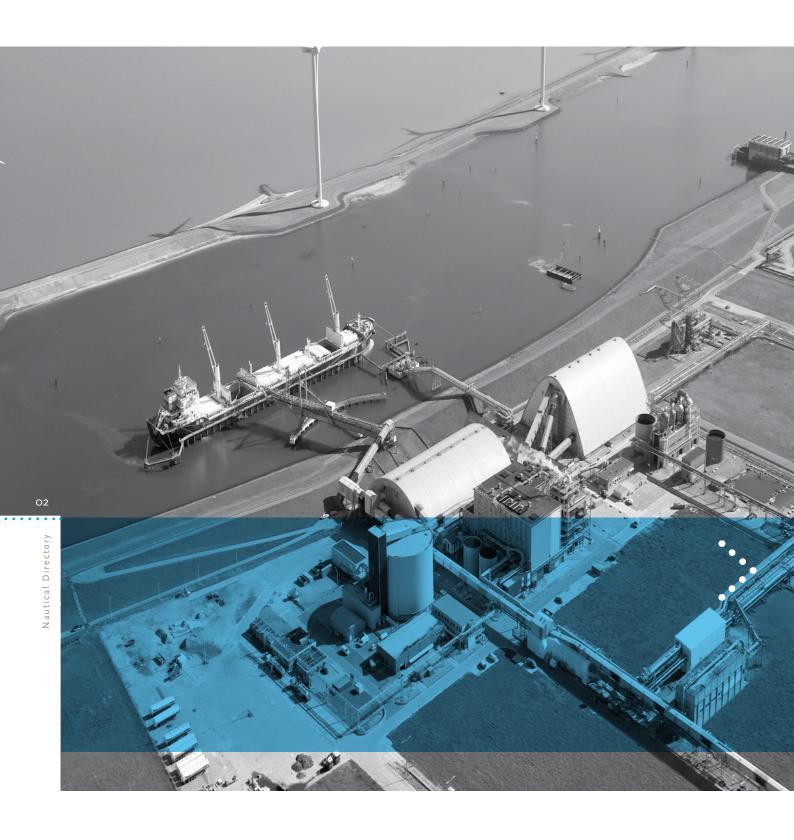




Nautical Directory

Coverphoto: Zeehavenkanaal | Delfzijl ••••• Loading salt at Nobian jetty in Zeehavenkanaal | Delfzijl



Foreword

Foreword

Groningen Seaports

Ports and sites

Groningen Seaports is the economic operator, developer and port authority for the port of Delfzijl, Eemshaven and the adjoining industrial sites. The organisation provides the complete package of port services to its industrial and commercial clients, from logistics and infrastructure services to the issue and maintenance of the sites in both port regions. As well as the two excellently equipped ports, Groningen Seaports manages the industrial sites around the ports and at other areas in the Eemsdelta. Various clustered business sites are located on the sites, including a chlorine-related chemicals cluster with Nobian and its alliance partners as important players. Also, a large part of Eemshaven has been earmarked for the development of energy-related industry with large energy producers such as ENGIE, NorNed, TenneT, and RWE. And that attracts energy consumers as well: Google builds its largest data center of Europe in Eemshaven.

Your new business location in Delfzijl or Eemshaven?

Both seaports have good rail, road and water connections, which provide very easy access to your location. If you operate in the offshore wind business or the data centre sector, then Eemshaven is the best option for you. Delfzijl is the right location for the chemical industry or circular economic activities. We'll be pleased to help you explore the options.

Port of Delfzijl

The port of Delfzijl consists of an outer basin and an inner basin. Handelshaven is the logistic heart of the port area and is located near the old city centre of Delfzijl. The eastern part of this port is destined for professional shipping and the western part for recreational shipping. Handelshaven is accessed via the 6km long Zeehavenkanaal. The north side of this canal consists of a breakwater, where 14 of Delfzijl's total of 19 wind turbines generate green energy. To its south there are various loading and unloading facilities for the purpose of transhipping chemical products or raw materials for the chemical industry.

Facts & figures

- Transhipment 4,750,015 tonnes (2023)
- Surface area: 1,478 hectares
- · Available: approx. 359 hectares
- Quay length: 850 metres
- Water depth: 9 metres
- Depth of inner basins: 5 metres
- 15% of total Dutch chemical production

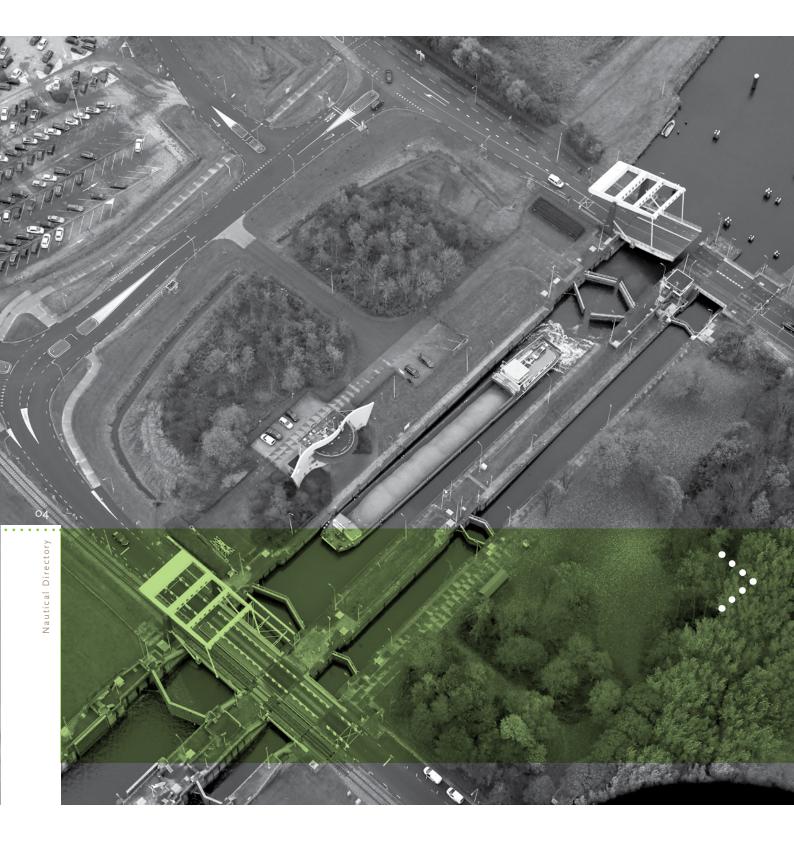
Eemshaven

Eemshaven is a deepwater port accessible for panamax bulkcarriers up to 14 metres draft (Wilhelmina basin). There is more than 5 kilometres of quay distributed over 4 basins. Eemshaven has multimodal access and with quays as well as a public roro facilities, ramps, a jetty and various logistics service providers it has all the facilities for transhipping goods.

Facts & figures

- Transhipment 9,391,351 tonnes (2023)
- Surface area: 1,323 hectares
- Available: 177 hectares
- Quay length: 5,120 metres
- Water depth: 14 metres
- 1/3 of total Dutch energy production

•••••• Inland vessel navigating in sea-locks area | Delfzijl



Contents

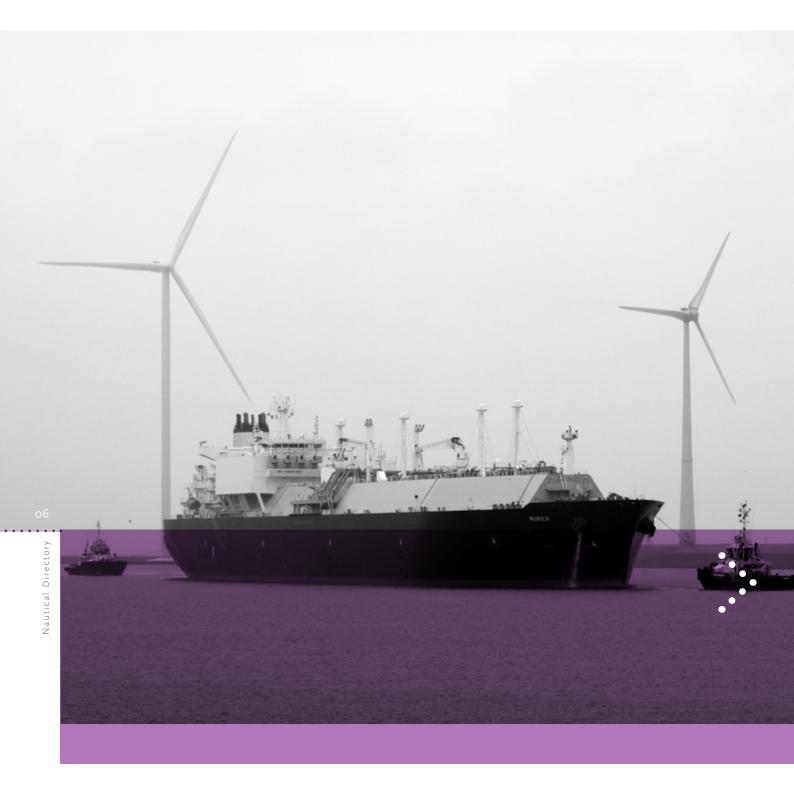
05

Contents

	Naut	ical Directory	06
	1 Naı	utical information	07
		Location and distances	07
	1.2	Charts and guides	07
		1.2.1 Charts	07
		1.2.2 Pilots	07
		1.2.3 List of lights	07
		1.2.4 Tidal information	07
	1.3	Tides and currents	08
		1.3.1 Delfzijl tides	08
		1.3.2 Eemshaven tides	08
	1.4	Approaches	09
• • • • • • •	2 Ser	vices	09
	2.1	Vessel traffic services	09
		2.1.1 River Ems	09
		2.1.2 Delfzijl and Eemshaven	10
		2.1.3 Harbourmaster	10
		2.1.4 Nautical Service Centre (NSC)	10
	2.2		11
		2.2.1 Compulsory pilotage area	11
		2.2.2 Pilotage dues	11
		2.2.3 ETA and ETD regulations	11
	-	Towage	12
		Boatmen Border control	12
	-	Dutch Customs	12
		Port reception facilities	13 13
	_		
• • • • • • •	_	scription of the ports Port of Delfzijl	14
	3.1	3.1.1 Outer harbour sections	14
		3.1.1 Entrance	14 14
		3.1.1.2 Zeehavenkanaal	14
		3.1.1.3 Handelshaven	15
		3.1.1.4 Damsterhaven	15
		3.1.2 Sea locks	15
		3.1.3 Inner harbour sections	16
		3.1.3.1 Farmsumerhaven	16
		3.1.3.2 Eemskanaal	16
		3.1.3.3 Oosterhornhaven	16
		3.1.4 Ship repair facilities	16
	3.2	Eemshaven	18
		3.2.1 Doekegatkanaal (port entrance)	18
		3.2.2 Julianahaven	18
		3.2.3 Emmahaven	19
		3.2.4 Wilhelminahaven	19
		3.2.5 Beatrixhaven	19
		6-16-11	
		s of Delfzijl and Eemshaven .	22
	Com	panies	26

The Port Authority of Delfzijl and Eemshaven does not accept any liability for possible errors in this publication. Some data may be subject to changes in the course of this year. Charts in this publication are not intended for navigation purposes.

*... Arrival of LNG vessel Murex, Doekegatkanaal | Eemshaven



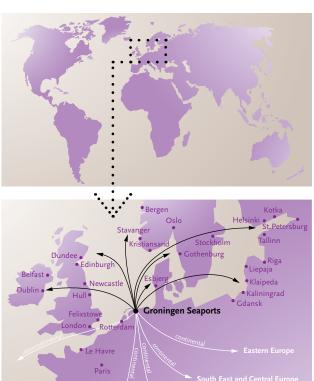
Nautical Directory

Nautical Directory

1 | Nautical information

1.1 Location and distances

The Groningen Seaports are located at the mouth of the River Ems and near the main North Sea shipping route in the Le Havre-Hamburg Range. Delfzijl: Latitude 53°20'N, Longitude 06°56'E. Eemshaven: Latitude 53°27'N, longitude 06°50'E. From Delfzijl to Emden is 10 nautical miles via Paapsand-Süd. From Delfzijl harbour to the pilot station is 37 nautical miles via Paapsand-Süd. From Delfzijl harbour to Eemshaven is 15 nautical miles via Paapsand-Süd. From Eemshaven quays to the pilot station is 23 nautical miles via Westereems.



1.2 Charts and guides

For approaches to Delfzijl and Eemshaven, the following charts and guides are available:

1.2.1 Charts

- Netherlands government Charts Nos 1460 and 1555 + 1812.6.
- British Admiralty Charts Nos 3509 and 3510.
- German Charts Nos 90 and 91.

1.2.2 Pilots

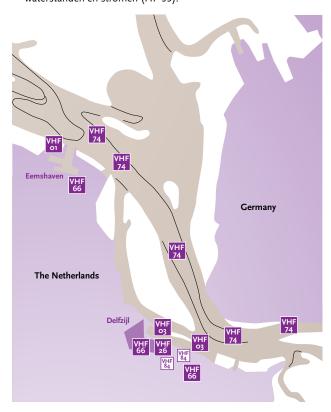
- Zeemansgids voor de Nederlandse kust (HP 1).
- British Admiralty, Np 55 North Sea Pilot (East).
- Nordsee Handbuch östlicher Teil Nr. 2006.

1.2.3 List of lights

- Lichtenlijst voor Nederland.
- British Admiralty List of Lights, Volume B (HP 75).
- Leuchtfeuer Verzeignisse und Signalstelle, Teil III A Nr. 4003.

1.2.4 Tidal information

- Stroomatlas Waddenzee Oost (HP 18), Noordzee (HP 19).
- Getijtafels voor Nederland.
- Admiralty Tide Tables, European Waters.
- Waterstanden en stromen (HP 33).



Station	VHF Channel
VTS Eemshaven VTS Delfzijl Central Reporting Station Waddenzee Towing service Delfzijl/Eemshaven Towing service Emden, ship to ship traffic Sea locks Emden, lock Leer, lock Papenburg Ems Traffic Ems/Sperrwerk Sealocks Delfzijl Eemskanaal, all bridges + Groevesluis Port control Delfzijl/Eemshaven SAR (Search and Resque) Ems Traffic Ems Traffic Weiwerderbridge/Heemskesbridge	VHF Channel 01 03 04 06 10 13 15 26 64 66 67 74 74 84
<i>5</i> ,	

1.3 Tides and currents

All depths in this directory are relative to Normal Amsterdam Level (NAP). Tidal movement is diurnal. LLWS at Delfzijl lies 2.03 metres below NAP, LLWS at Eemshaven lies 1.80 metres below NAP.

1.3.1 Delfzijl tides

	HW	LW	Mean range
	(metres)	(metres)	(metres)
Mean spring tide	+ 1.53 m	- 1.86 m	3.39 m
Mean tide	+ 1.40 m	- 1.66 m	3.06 m
Mean neap tide	+ 1.19 m	- 1.40 m	2.66 m

1.3.2 Eemshaven tides

	HW	LW	Mean range
	(metres)	(metres)	(metres)
Mean spring tide	+ 1.34 m	- 1.57 m	2.91 m
Mean tide	+ 1.22 m	- 1.40 m	2.62 m
Mean neap tide	+ 1.02 m	- 1.19 m	2.21 m

To calculate the tide for Eemshaven, use the tide-table for Delfzijl. High water at Eemshaven will be 40 minutes earlier and 0.22 metres lower than in Delfzijl. Low water at Eemshaven will be 46 minutes earlier and 0.28 metres higher than in Delfzijl. Note that easterly winds usually influence available water depths. All draughts indicated in this chapter are for normal weather conditions and dredging allowance.

Tidal currents

						_	
Location	Borkum	Meeuwstaart roads	Doekegat	Eemshaven	Hond	Paap roads	Oterdum
-6	130	135	100	310	060	000	275
06.08	08.10	09.12	04.06	01.03	01.01	02.04	
-5	130	130	120	130	165	180	080
21.29	26.30	13.19	19.24	16.20	15.18	04.05	
-4	130	130	110	125	160	180	090
20.31	21.29	15.20	18.28	18.30	17.22	16.22	
-3	130	130	110	120	160	170	090
18.24	16.22	11.16	15.22	15.23	10.23	11.19	
-2	140	130	120	130	175	175	100
12.19	13.18	07.09	11.17	09.15	14.18	04.18	
-1	130	135	120	130	150	190	090
04.07	06.07	03.04	07.10	06.08	09.12	07.14	
HW 04.06	305 04.05	305 02.04	120	nil 02.03	160 05.06	135 03.08	095
+1	305	305	300	300	335	340	275
16.26	12.19	10.15	02.10	06.13	07.09	02.06	
+2	310	315	300	300	330	350	280
20.30	18.24	17.27	15.18	16.22	21.27	11.17	
+3	310	310	300	300	340	335	280
20.30	18.24	17.29	20.25	21.25	23.30	16.22	
+4	310	315	300	310	340	340	275
15.26	16.23	15.26	17.25	17.22	21.27	10.25	
+5	310	315	310	300	345	340	260
09.22	16.23	09.17	12.19	11.21	16.21	08.16	
+6	310	325	300	315	340	345	265
03.12	09.12	04.06	07.10	06.09	10.13	03.04	

- -6 Time reference to HW standard port Delfzijl
- 130 Mean direction of tidal stream in degrees
- 06.08 Rate of current in 10ths of knots at mean neap tide (06) and mean spring tide (08)

Source: Dienst der Hydrografie (HP 18 - January 1992)

1.4 Approaches

From the pilot station at Westereems fairway buoy, vessels bound for Delfzijl sail via Westereems, Ranselgat, Doekegat and Oost Friesche Gaatje to the entrance near Oterdum. Vessels bound for Eemshaven sail via Westereems, Ranselgat and Doekegat to the entrance of Eemshaven.

- Distance from pilot station to Delfzijl quay: 37 nautical miles.
- Distance from pilot station to Eemshaven quay:
 23 nautical miles.

The Zeehavenkanaal in Delfzijl offers vessels an operational draught of about 9.0 metres under mean HW conditions. At present, Eemshaven offers an operational draught of about 14 metres under mean HW conditions. With respect to the operational draught for both the ports, a keel clearance of 10 per cent of the draught is applicable.

Anchorage at Delfzijl: vessels up to 100 metres long which have to anchor outside the piers can anchor on the Oterdum roads north-east of the harbour entrance.

Larger vessels or vessels carrying dangerous cargo should anchor in the Doekegat or Oude Westereems near Eemshaven.

Request for anchorage should be applied at the Vessel Traffic Centre Ems, VHF Channel 74. Anchorage is forbidden in the ports of Delfzijl and Eemshaven.

2 | Services

2.1 Vessel traffic services

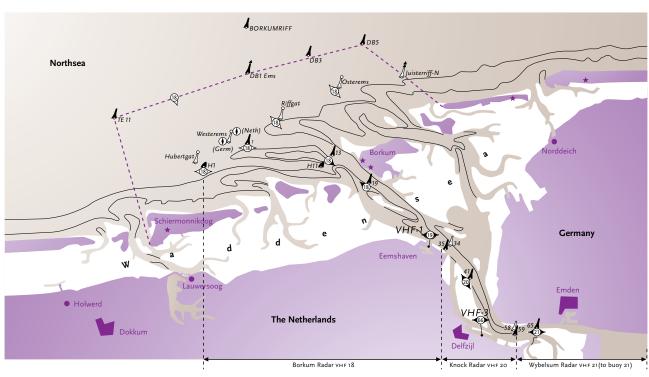
2.1.1 River Ems

An integrated German/Dutch radar chain has been installed along the River Ems comprising the radar stations Borkum (Germany), Oudeschip 1+2 (Netherlands), Knock (Germany) and Wybelsum (Germany). This radar chain is controlled by Vessel Traffic Centre Ems.

Radar assistance can be provided when visibility is less than 2,000 metres and/or when the pilot cutter is cruising off Borkum in strong winds. Radar stations operate on a regular basis. Guidance and assistance can be provided according to the table below.

Guidance and assistance

Station	Area	VHF Channel
Borkum radar	River Ems from Westereems buoys 1/2 or Huibertgat buoys H1/H2 to buoy 35	18
Ems Traffic	River Ems from buoy 35 to entrance port of Delfzijl buoys 56/57	74
Ems Traffic	River Ems from buoys 56/57 to entrance port of Emden	74



River Ems and Estuary

Seagoing vessels:

- Vessel's name
- Position
- Dimensions
- Port of destination
- Seagoing vessels including push barges with length > 40 m:
- Vessel's name
- Position
- Speed
- Passage time reporting point

2.1.2 Delfzijl and Eemshaven

A modern VTS centre has been constructed in both Delfzijl and Eemshaven. Up-to-date traffic information, guidance and radar assistance are provided on a 24 hour basis using four radar installations, more than twenty five CCTV cameras and two hydro/meteorological units.

Traffic information

	Area	VHF Channel
Regular port operations	Delfzijl/Eemshaven Oosterhornhaven, Farmsumerhaven	66
VTS	VTS Delfzijl (callsign)	03
	VTS Eemshaven (callsign)	01
General information	Delfzijl/Eemshaven Oosterhornhaven, Farmsumerhaven	66
	Provincial sea locks	26
	Weiwerderbridge and Heemkesbridge	84

2.1.3 Harbourmaster

The Harbourmaster of Groningen Seaports is responsible for the day to day running of the Nautical Service Centre. The Harbourmaster is appointed by the managing director of Groningen Seaports and his specific task is to ensure that the handling of the traffic and cargo in the port of Delfzijl and the Eemshaven is coordinated safe, efficient, and environmentally sustainable.

He also advises the management of Groningen Seaports regarding nautical affairs and is responsible to the Mayors of the Municipalities of the ports, regarding ISPS issues and safety issues when these can affect the surrounding population. When safety issues involve more than one Municipality the Province of Groningen is also consulted.

The Harbourmaster liaises closely with Rijkswaterstaat and the Wasser und Shifffahrtsamt when special transports are planned or in case of incidents involving ships that will transit the Eems.

2.1.4 Nautical Service Centre (NSC)

The NSC is responsible for planning and co-ordination of shipping movements in and around the port of Delfzijl and Eemshaven and is manned on a 24 hour basis. The VTS authorities of the River Ems (Rijkswaterstaat) and Groningen Seaports work closely together in the NSC, which forms the hub of a network keeping in contact with vessels and organizations active in the port area and providing ship related services.

Groningen Seaports operates a vessel traffic management system (VTMS) which consists of a vessel traffic service (VTS) and a vessel information system (IVS). The IVS allows instantaneous and fast interchange of data not only between similar national networks but also between local facility services, ship agents, government services, port state control, etc. The VTS monitors shipping movements constantly, covering the roads of, and approaches to, Delfzijl and Eemshaven, as well as main fairways and adjacent harbour basins.

A primary communications system is available for the 'Ems Traffic' radar chain along the River Ems, with a direct line to the central VTS station at Knock (Germany). All VTS related work is performed at a fully equipped console desk.

Communication procedures

Information

Being at the centre of activity, VTS operators are able to pass on a lot of key information to users of the VTS network. Although a great deal of information is available at the NSC, only required information will be passed on in accordance with VTS communications procedures.

Responsibility

The shipmaster is responsible for safe navigation in all circumstances. The VTS operator only gives information that can help the shipmaster in making his own decisions. Existing traffic regulations will always prevail.

VHF channel

Ship masters must pay attention to the VHF channel of the sector they are passing through. The sector's VHF channels are displayed on signs along the fairway. In this way, vessels can stay informed about the traffic situation in the sector where they are navigating.

Traffic information

VTS operators will contact vessels when necessary – for example, when vessels are close to each other but cannot see one another. Ship masters can also contact VTS operators, but only if they need essential traffic information and the relevant information is not at hand.

Navigation assistance

Navigation assistance can be provided in Delfzijl and Eemshaven.

Traffic directions

These are issued in the form of instructions by the competent authorities and can be given by them or on their behalf by the VTS operator on the relevant sector's VHF channel.

General information/shipping broadcast

General information not directly concerning nautical traffic information can be given on VHF Channel 66. On request a variety of information can be given, these are up-to-date reports on meteorological conditions, tidal levels, horizontal visibility, the fairway, the sea locks, berth occupation, dredging and other work in progress, special transports, a weather forecast etc. Vessels must switch over to this channel when instructed to do so by the VTS operator. When switching over to this channel on their own initiative, vessels should first report this proposed action on the sector's VHF channel. Always keep a listening watch to the relevant sector's VHF channel.

Radio discipline

Correct radio discipline means that communications should be brief. Arrangements with other vessels concerning shipping regulations can also be made directly on the sector's VHF channel or via the VTS operator. The VTS operator may disconnect direct contact between vessels in the interest of safety. He will, of course, report this immediately to shipping in the sector.

Official languages

English and Dutch are the official languages for communication between vessels and the traffic centre. This rule may be deviated from only when safety is at risk.

2.2 Pilotage

2.2.1 Compulsory pilotage area

Regulations for maritime traffic and pilotage in Dutch waters are laid down by the Loodsplichtwet (Pilotage Act) and the Scheepvaartverkeerswet (Maritime Traffic Act). The Scheepvaartverkeerswet states that masters of seagoing vessels must use the services of a pilot when navigating on a fairway mentioned in this Act.



The River Ems, except the area south of Geisedam, but including the Port of Delfzijl, the fairway from the locks at Delfzijl into the Oosterhornhaven, the Port of Eemshaven and a part of the territorial sea bordered by a line from position:

53°34'.7 N, 06°21'.9 E to 53°34'.9 N, 06°13'.7 E to 53°37'.1 N, 06°19'.5 E to 53°39'.0 N, 06°27'.1 E and to 53°37'.5 N, 06°31'.2 E,

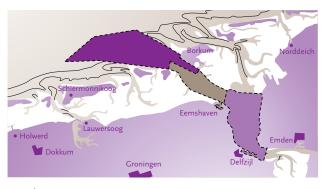
which are mentioned as compulsory pilotage areas.

Vessels obliged to use pilot services on these fairways

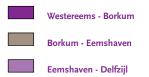
- Seagoing vessels longer than 95 metres.
- · Seagoing vessels wider than 13 metres.
- Seagoing vessels with a draught more than 7 metres (Eemshaven)
- Seagoing vessels with a draught more than 6 metres (Delfzijl)
- Vessels built for or adjusted to and used for transport of oil, gas
 or chemicals in bulk and fully or partially loaded. Even when these
 are empty but not yet degassed or when dangerous residue has not
 yet been removed, they are subject to general compulsory pilotage.
- Vessels carrying such quantities of dangerous cargo as established by the Ministry of Transport and Public Works.

Pilotage exemptions

There is a possibility to obtain exemption (please see map below).



Sailing area



Compulsory pilotage degree

 Pilot exemption limit			Pilot exemption limit		
L 155	B 25	D 7	-	-	
L 125	B 20	D 7	-	-	
L 95	B 13	D 7	L 115	< 13	D 7
L 95	B 13	D 6	L 115	< 13	D 6

2.2.2 Pilotage dues

All vessels applicable to compulsory pilotage are obliged to pay pilotage dues. Vessels using the services of a pilot voluntarily must also pay pilotage dues.

2.2.3 ETA and ETD regulations

Pilotage for both Delfzijl and Eemshaven is performed by a fast tender from Eemshaven. Therefore, vessels approaching from the sea should inform Delfzijl pilot station of their estimated time of arrival (ETA) at Westereems racon buoy in MET at least 12 hours in advance if not immediately after leaving last port of departure. If an ETA deviates more than one hour from the latest ETA message, a new message must be send six hours prior to arrival at Westerems buoy.

Vessels must provide the following information in an ETA report

- Name of vessel.
- Call sign.
- ETA at Westerems buoy.
- Ship's speed in knots.
- Deepest draught upon arrival in decimetres.
- · Ship's length overall in metres.
- Freeboard in decimetres.
- · Required tug assistance.
- Particulars, if any, with regard to tender coming alongside and safe pilot transfer.

ETA report

How?		When?
Telepho	ne +31 (0)596 61 36	72 12 hours prior to arrival at Westerems racon buoy
Fax Satcom	+31 (0)596 61 03 C Mailbox 31 8441 msg Type: PSTN	
Telepho	ne +31 (0)596 61 36	72 6 hours prior to arrival at Westerems racon buoy; and if the ETA is to be corrected more than 1 hour
Fax VHF Satcom	+31 (0)596 61 03 Channel 19 C Mailbox 31 8441 msg Type: PSTN	06
VHF	Channel 19	4 hours prior to arrival contact Delfzijl pilot station

Waiting time of more than 30 minutes will be charged. On departure from Delfzijl or Eemshaven or shifting in one of these ports, a pilot can be obtained from Delfzijl pilot station, with a notice of one and a half hours prior to departure, through VHF Channel 87; telephone +31 (0) 596 61 36 72; fax +31 (0) 596 61 03 06.

Radar assistance

Depending on the weather, the pilot may embark or disembark at an inward position off Borkum Island. Delfzijl pilot station will inform the vessel of this 'pilotage under Borkum' situation as soon as contact has been made.

In that case, for certain vessels (see table next page) radar assistance is available on the seabound part of the passage. This so-called Radar Beratung is provided by the German pilotage and inbound vessels can request it at Ems-traffic Borkum via VHF Channel 18 at a notice of two hours prior to arrival at Westerems racon buoy.

The option of radar assistance is not available to

All ships	> 140 metres in length or > 23 metres in breadth
Car carriers and RoRo vessels	> 140 metres in length or > 23 metres in breadth
Tankers as in SRE art 21 sub 1	> 120 metres in length or > 18 metres in breadth

For these categories of vessels, the options are

- A vessel bound for Delfzijl or Eemshaven may order a pilot on board at a previous port of call. Transport expenses and a daily tariff will be charged.
- A vessel departing from Delfzijl or Eemshaven may carry the pilot to the next port of call or suitable pilot station. Transport expenses and a daily tariff will be charged.

Vessels leaving an anchorage or crossing an inward limit of a fairway with compulsory pilotage must also apply for a pilot at least two and a half hours before ETD anchorage or ETA inward limit.

If notice of an intended departure or shifting is given less than one and a half hours before departure or shifting, the RLC-N will try to provide the vessel with a pilot as soon as possible. Vessels should be aware that this may take up to one and a half hours following receipt of the message.

Note: In bad weather, the pilot station may be withdrawn upstream from the River Ems estuary and may cruise off to Borkum between buoys Nos 13 and 19.

2.3 Towage

Bijma Towage and Wagenborg Towage have general permission from Groningen Seaports to give tug assistance to vessels calling at Delfzijl and Eemshaven. Below the capacities of the tugs are specified.

Bijma Sleepdienst & Scheepsbevrachting

	Gruno	Gruno II	Gruno III	Gruno IV	Gruno V
Capacity (hp)	480	625	775	1,960	1,280
Bollard pull (ton)	5.8	8	9.8	28	22.8

Wagenborg Sleepdienst

	Water- geus	Water- man	Water- poort	Water- stad	Water- straat	Water- stroom
Capacity (hp)	1,775	4,400	1,258	2,200	5,000	5,000
Bollard pull (ton)	25.5	56	15	30	56	56

Tug assistance must be applied for in advance

	During office hours	Outside office hours	
Delfzijl	1 hour	1.5 hour	
Eemshaven	1.5 - 2 hours	2.5 - 3 hours	

Outside office hours, requests for tug assistance must be made to the Groningen Seaports Nautical Service Centre.

2.4 Boatmen

The Boatmen Association of Delfzijl and Eemshaven (BVD/E) is a member of the Dutch Boatmen's Association and the European Boatmen's Association and meets the requirements of these associations. The BVD/E provides mooring and unmooring services to seagoing vessels calling at Delfzijl and Eemshaven.

The main service to shipping in this area is assistance with mooring, unmooring and shifting. Other services rendered operating bridges, providing fresh water and supervising mooring. In addition, boatmen may be asked to assist with placing vessels in dry dock.

The BVD/E has three (two +one backup) motor tenders, one in Delfzijl and one in Eemshaven, equipped with VHF transceivers to maintain communications with the vessel in question. These tenders can be used on request in the mooring and unmooring or shifting procedure. They can also assist in underwater surveys and for bringing stores or people to vessels at anchor off Delfzijl and Eemshaven.

On request, the BVD/E can provide mooring masters who will assist the ship's crew in mooring, unmooring or shifting. They will also stay in contact with boatmen on shore so that mooring and unmooring procedure can be carried out quickly, easily and safely.

For vessels navigating inland waterways, the BVD/E provides canal pilots who bring vessels to berths in the Eemskanaal, Winschoterdiep and Farmsumerhaven. A canal pilot can also be provided for vessels sailing to Groningen through the Eemskanaal.

The Nautical Service Centre (NSC) of Groningen Seaports coordinates all activities of the BVD/E. The Boatmen stay in contact with the NSC at all times using modern communication equipment and also have contact with vessels via their mobile VHF transceivers.

The ship master and/or pilot must apply for assistance of boatmen for mooring or unmooring at least one hour before arrival at the berth or before departure.

2.5 Border control

The Koninklijke Marechaussee (Military Police) generally performs border control duties in the ports of Delfzijl and Eemshaven. All ships with destination Groningen Seaports will be checked. The ship master is obliged to co-operate during border control duties.

What the master should do when his ship arrives at Groningen Seaports

- Fill in the crew list and/or a passenger list in duplicate and hand both copies to the officer of the Koninklijke Marechaussee.
- If the master is aware of any stowaways on board his vessel, he must inform the Koninklijke Marechaussee as soon as possible.
- If there are any changes to the crew during his vessel's stay at Groningen Seaports, the master must contact the office of the Koninklijke Marechaussee as soon as possible. After the check, both crew lists will be stamped. One crew list stays on board the vessel and one must be kept by the captain or master as long as the vessel is in port.

The master must inform the office of the Koninklijke Marechaussee two hours in advance of the ETD of his vessel. This is a personal responsibility of the master.

2.6 Dutch Customs

The Customs Administration performs a variety of activities in the ports: collecting import duty, inspecting the transport of waste, tracking down drugs and checking motor vehicles.

In brief, the Dutch Customs Administration

- Inspects goods that are about to enter, leave or cross Dutch territory.
- Levies and collects taxes and domestic excise.
- Contributes to the regulation of the Dutch and European market.
- Performs tasks to help protect the quality of life.

2.7 Port reception facilities

For the disposal and collection of waste, the Port Waste Plan is applicable in the ports of Delfzijl and Eemshaven. This plan details the collection of waste and the reception facilities available.

Waste disposal at Groningen Seaports requires completing a form, to be downloaded via www.groningen-seaports.com. Actual and detailed information regarding the disposal of waste can be obtained via the Nautical Service Centre of Groningen Seaports.

Disposing and paying

In accordance with the law, sea-going vessels must pay an indirect contribution for the collection and processing of ship-generated waste. Vessels entering a port thus pay a charge; even if they do not dispose any waste. After payment of the fee, vessels receive a 'right to dispose'. This right is measured according to an amount which depends on the vessel's gross tonnage (gt).

The fees are subject of an annually adjustment. Up to date rates and rights can be requested from the Nautical Service Centre of Groningen Seaports or viewed at the website.

Claiming of disposal rights

Vessels dispose the waste with one or more collectors. The complete invoice is paid to the collectors by the agent, captain, or ship owner. The collector(s) send a copy of the bill together with the S-form to Groningen Seaports. In its turn Groningen Seaports will refund 'right to dispose' to the vessel via the regarding agent, captain, or ship

Disposal of waste

The port waste facilities in Delfzijl and Eemshaven are equipped to handle annex I, IV, V waste. In all classes, the waste will be collected in accordance with the environmental and safety regulations. For a timely collection of the waste it is to be advised to notify the – by the port authority appointed – collector(s) as soon as possible. The website of Groningen Seaports provides the latest information on these companies.

3 | Description of the ports

Groningen Seaports comprises the ports of Delfzijl and Eemshaven. The port of Delfzijl offers general cargo transhipment facilities and hosts in its near surroundings a chemical cluster (base chemicals) and (light) metallurgic industry, and various SME business parks.

Eemshaven contains a park dedicated to the production of energy. Moreover a huge recycling industry developed in this port which basically structures cargo transhipment and storage facilities for bulk, roro, and general cargo. The sections below detail the inferior parts of the ports.

3.1 Port of Delfzijl

The Port of Delfzijl consists of an outer harbour and inner harbour.

The outer harbour is divided into three sections

- Zeehavenkanaal
- Handelshaven
- Damsterhaven

The inner harbour is divided into three sections

- Farmsumerhaven
- Eemskanaal
- Oosterhornhaven

The outer and inner harbours are linked by sea locks.

3.1.1 Outer harbour sections

3.1.1.1 Entrance

The entrance is near the deep water of the Oostfriesche Gaatje and lies opposite radar station Knock on the German mainland. The distance between the two moles is 400 metres. The bottom width is 208 metres with an initial depth of 10.0 metres (depending on season and dredging state). There is a green fixed light at the western mole (Westerhoofd) and a red fixed light at the eastern mole (Oosterhoofd).

3.1.1.2 Zeehavenkanaal

Vessels proceeding through the harbour entrance arrive directly in the Zeehavenkanaal. Going westwards, the Zeehavenkanaal gradually narrows. Navigable width is 100 metres throughout in a westerly direction, with the exception of a small part near to the Nouryon salt jetty where the width is 80 metres. All vessels navigating Zeehavenkanaal have right of way over vessels coming from the access channel to the sea locks.

Established industries have private mooring facilities in the Zeehavenkanaal area. These jetties and berths are located along the Zeehavenkanaal in such a way that the channel width of 100 metres, except near the Nouryon jetty, is not affected.

Private mooring facilities along the Zeehavenkanaal

1 Former Aldel

Type of mooring facility:

Length of mooring facility:

Maximum length of vessels:

Design depth:

Facilities:

Jetty

120 metres

200 metres

12.0 metres

Crane

Activity:

Discharge capacity: 300 tonnes per hour

2 JPB Logistics

Type of mooring facility:

Length of mooring facility:

Maximum length of vessels:

Design depth:

Jetty

230 metres

200 metres

10.0 metres

Facilities: Installations for loading tankers

Activity: Loading MDI, acetic acid,

methanol

Loading capacity: Maximum 250/300 tonnes per

hour

3 Nobian Base Chemicals BV

Type of mooring facility:

Length of mooring facility:

Maximum length of vessels:

Design depth:

Jetty

224 metres

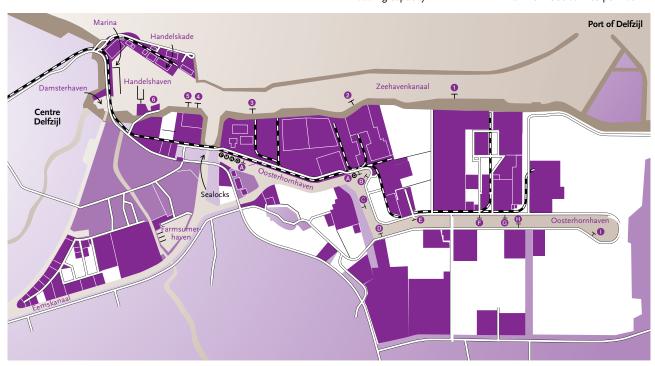
200 metres

12.0 metres

Facilities: Bulk loading installation

Activity: Loading salt

Loading capacity: Maximum 900 tonnes per hour



Nautical Directory

Nederlandse Aardolie Maatschappij BV (NAM)

Type of mooring facility: letty Length of mooring facility: 102 metres Maximum length of vessels: 150 metres Design depth: 9.0 metres

Facilities: Installation for loading tankers Activity: Loading condensate

Loading capacity: 500 cubic metres per hour

6 Contitank Tankstorage

Type of mooring facility: Jetty Length of mooring facility: 200 metres Maximum length of vessels: 200 metres Design depth: 12.0 metres

Installations for loading/ Facilities:

discharging

Activity: Loading/discharging vegetable

oil, glycerine

Discharging capacity: 350 tonnes per hour

On request Loading capacity:

6 Niestern Sander

Type of mooring facility: Quay Length of mooring facility: 100 metres On request Maximum length of vessels: Design depth: 7.0 metres

Loading and discharging general Activity:

cargo and offshore

Paved area of 8,000 square metres Special features:

Fresh water connection Electricity connection Office facilities

3.1.1.3 Handelshaven

The Handelshaven basin, near the town of Delfzijl, has 1,220 metre quay facilities. The basin is divided into an eastern and a western part. The eastern part of the Handelshaven has two loading/unloading quays and both are fully utilised by private companies. Stevedores can handle general and bulk cargoes at these quay.

Loading/unloading quay

Handelskade Fast

Berthing location: Fenders 1 to 33 Length of quay: 650 metres

Design depth: 11.25 metres (vessels of up to

10.0 metres draught can

berth here)

Quay level: + 4.95 metres NAP

Facilities: Three electric cranes: 1 x 5 tonnes and 2 x 30 tonnes

Rail connection

Fresh water connections

 Private combi weighbridge, for public use, of 100 tonnes capacity and 18 metres length

Eight sheds with total area of 42,400 square metres

15,000 square metres of open storage

Slops disposal facility

Area of quay for handling dangerous cargoes

235 metres (length of the berth

11 metres

Design depth: + 3.40 metres NAP Quay level:

One container handling crane Facilities: (mobile cranes available for

In the western part of the Handelshaven is a dedicated quay for tourism and recreation purposes. This is the Handelskade West (sections A, B and C) with a length of 550 metres and allows no cargo handling activities. In front of this quay is a floating jetty of 320 metres with berths on both sides used by Groningen Seaports to berth all kinds of small and medium sized vessels. The marina of the Royal Rowing and Sailing Club 'Neptunus' is located between this floating jetty and the Handelskade West and can be reached by way of an opening near the harbour bridge.

Other facilities on the south side of Handelskade West

From west to east

- Boxen
- Farmsum Jetty
 - Dry docks ship repair and engineering works (Niestern Sander, see section 3.1.4)

3.1.1.4 Damsterhaven

The Damsterhaven basin is a small harbour behind the harbour bridge and is an ISPS location. The basin has 140 metre quay facilities.

Heuvelman Ibis

Type of mooring facility: Quay Length of mooring facility: 140 metres Design depth: 6.20 metres

Loading and discharging bulk Activity:

3.1.2 Sea locks

The outer and inner harbour sections in Delfzijl are connected via the locks in the Eemskanaal. The sea locks operate 24 hours a day and are supervised by the Province of Groningen. The lock master will not allow vessels to pass through the lock unless a keel clearance of 0.3 metres is available.

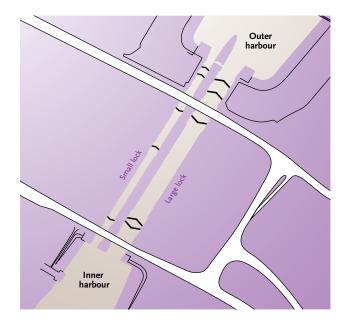
Dimensions of the sea locks

Small (western) lock

- Length at low tide 123 metres
- Length at high tide 81 metres
- Width 7 metres
- Depth inside 2.40 metres

Large (eastern) lock

- Length 120 metres
- Width 16 metres
- Depth of sill -5.45 metres NAP



 Handelskade D/E Length of quay:

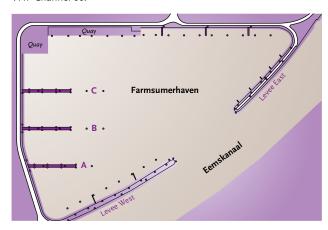
is 200 metres)

handling bulk cargo)

3.1.3 Inner harbour sections

3.1.3.1 Farmsumerhaven

The Farmsumerhaven, supervised by Groningen Seaports, provides a berth for waiting vessels with a maximum draught of 5.0 metres. Total length alongside jetties and dolphins is 1,165 metres. A 150 metre quay is located in the northern part of the basin. Vessels should apply for a berth to the nautical service centre, VHF Channel 66.



3.1.3.2 Eemskanaal

Farmsumerpoort, and dedicated area for small and medium sized enterprises south of Delfzijl/Farmsum, is under the management of Groningen Seaports. This business park has a waterfront connection via the Eemskanaal. Depth in the Eemskanaal is -5.0 metres NAP. A drop in the water level, due to sluicing, occurs in in this area. The maximum permitted length of ships in Eemskanaal is 120/144 metres and the following quays and jetties are located alongside the Eemskanaal (old and new part).

Quays and jetties located alongside the Eemskanaal

J. Wildeman Storage & Logistics

Type of mooring facility: Length of mooring facility: Design depth: Facilities:

Activity:

Special features:

Agrifirm BV

Type of mooring facility: Length of mooring facility: Design depth: Facilities:

Activity:

Wijnne Barends Logistics BV Type of mooring facility: Length of mooring facility: Design depth:

Activity:

Special features:

Gulf (Fast)

Type of mooring facility: Length of mooring facility: Design depth: Activity:

Special features:

Ouav 135 metres 5.1 metres Reach stacker

Discharging/loading

containers and general cargo

Storage capacity

77.5 metres 5.1 metres Grain elevator Discharging/loading agricultural products

Quay 60 metres 5.1 metres

Discharging/loading forest products and general cargo Storage capacity

Jetty 15 metres 3.6 metres

Discharging/loading fuels Storage capacity

Gulf (West)

Type of mooring facility: Length of mooring facility: Design depth:

Activity: Special features: letty 41 metres 3.6 metres

Discharging/loading fuels

Storage capacity

Eemsmond Betoncentrale BV Type of mooring facility: Length of mooring facility:

Design depth: Facilities:

Activity:

109 metres 4.0 metres Cranes

Producing concrete, discharging

Quay

sand, gravel, cement and various

bulk goods

Special features: Storage capacity

Nieveen BV

Type of mooring facility: Quay 56 metres Length of mooring facility: 4.0 metres Design depth: Facilities: Grain elevator Loading/discharging grain

Activity:

Heuvelman Ibis BV Type of mooring facility: Length of mooring facility: Design depth: Facilities:

Activity:

Quay 70 metres 2.5 metres Crane

Loading/discharging various bulk goods, mostly connected with maintenance of roads

and fairways

Special features: Equipment for maintenance

works

Zuidersma Fourage

Type of mooring facility: Quay Length of mooring facility: 75 metres Design depth: 2.5 metres

Discharging/loading bulk Activity:

goods

Special feature: Westfries shed

3.1.3.3 Oosterhornhaven

The Oosterhornhaven, under the management of Groningen Seaports, is an industrial inner harbour with an open connection to the Eemskanaal. Vessels navigating the Oosterhornhaven must pass the Weiwerderbrug drawbridge, which has a clearance of 14 metres.

The maximum dimensions of seagoing vessels to enter the Oosterhornhaven are 90 x 13 metres with a draught of 5.0 metres and an air draught of 8.0 metres. The Oosterhornhaven has a depth of -5.2 metres NAP. After passing the Heemkesbrug the depth is also -5.0 metres NAP. Due to sluicing, a drop in water level occurs in the Oosterhornhaven. The maximum permitted length of seagoing vessels in the Oosterhornhaven is 90 metres.

The maximum berth length for seagoing vessels is 90 metres and for inland vessels 110 metres.

With the exception of the western part – where the navigable width is 90 metres - the Oosterhornhaven has a navigable width of 60 metres. The other part of the Oosterhornhaven is an L-shaped extension which runs in a southerly direction for 600 metres and for about 900 metres up to the Heemskesbrug.





On the northern slope are a bulk salt loading installation, several quays and jetties for the handling of chemical products and raw materials, facilities for waiting vessels and a fully equipped jetty, used by BioMCN, at which volatile liquid chemicals may be handled in or out of inland tankers and seagoing coastal tankers. Beyond the Heemskesbrug, the port extends for a further 1,100 metres.

Quays and jetties located alongside the Oosterhornhaven (see map on page 16)

Nobian BV

Type of mooring facility: Length of mooring facility: Design depth:

Activity:

Jetty 🖸 67.50 metres 5.1 metres

Discharging of lye and loading of calcium chloride

Type of mooring facility: Length of mooring facility: Design depth:

Activity: Special feature:

Type of mooring facility: Length of mooring facility: Design depth: Activity:

Special feature:

Type of mooring facility: Length of mooring facility: Design depth:

Activity:

Jetty 🐠 120 metres 5.1 metres

Loading salt and soda Lay-by berth

174 metres 5.1 metres

Jetty (waiting)

Lay-by berth

letty @ (BioMCN) 99 metres 5.1 metres

Discharging EDC and loading methanol

3 Lay-by berth (1) near jetty Nobian-Q

Type of mooring facility: Length of mooring facility: Design depth: Activity: Obligations:

Jetty 60 metres 5.1 metres Dangerous goods Special permission of port

Mooring port side alongside

O DOW Benelux BV

Type of mooring facility: Length of mooring facility: Design depth:

Ouav 130 metres 5.1 metres

© ESD-SIC BV

Type of mooring facility: Length of mooring facility: Design depth: Activity:

Quay 72 metres 2.8 metres

Discharging silversand, cokes and loading silicon carbides

(a) Heuvelman Ibis BV

Type of mooring facility: Quay Length of mooring facility: 106 metres Design depth: 5.23 metres Activity: Discharging urea

G Groningen Seaports

Type of mooring facility: Length of mooring facility: Design depth: Activity:

Ouav 43 metres 5.23 metres

Project cargo loaded or

discharged

G Etex Building Performance BV (Siniat)

Type of mooring facility: Quay Length of mooring facility: 63 metres Design depth: 5.0 metres

Activity: Discharging gypsum

1 Lay-by berth (former jetty North Refinery)

Type of mooring facility: letty Length of mooring facility: 51 metres 5.1 metres Design depth:

Activity:

Obligation: Mooring port side alongside

Lay-by berth (2) in swinging basin at the end of the Oosterhornhaven

Type of mooring facility: letty Length of mooring facility: 60 metres Design depth: 4.5 metres Activity: Dangerous goods

Obligations: Special permission of port

authority

Mooring port side alongside

3.1.4 Ship repair facilities

The Royal Niestern Sander Shipyard, in the southern part of the Handelshaven, has shiprepair, newbuilding and engineering facilities.

The repair department has

- A floating dry dock suitable for vessels up to 125 x 18.5 metres and 10,000 dwt. Lifting capacity: 6,000 tonnes.
- A floating dry dock suitable for vessels up to 185 x 25 metres and 20,000 dwt. Heavy trucks easily can reach both docks, which are well equipped with cranes and other facilities. Lifting capacity: 11,000 tonnes.
- Two side launching slipways with maximum allowable draught of 2.1 and 3.4 metres; maximum lightweight of vessels 700 and 1,700 tonnes (vessels with an overall length of 137 metres and a maximum breadth of 14.2 metres can be handled on these slipways).

New build vessels

The facilities for new buildings embrace an inland new building yard inclusive a hall for the building of vessels 140 x 16 metres. The production facilities for new buildings and assembly in the Handelshaven of Delfzijl handle vessels with maximum dimensions of 160 x 23 metres.

- Engineering works (constructions for onshore and offshore industries, operations on non-ferrous materials, etc.).
- Carpentry division.
- Repair boat with welding and other equipment for above-water repairs in Delfzijl.
- Shore cranes:

at shipyard, 2 x 8 tonne and 1 x 18 tonne cranes; at dry dock 1, 2 x 12 tonne cranes; at dry dock 2, 2 x 6 tonne cranes.

One 60 tonne floating sheer leg (with spread of 8 to 10 metres).

3.2 Eemshaven

Eemshaven is a 1,324 hectare commercial and industrial port complex in an area reclaimed from the sea between 1970 and 1974. This relatively new deep sea port complex experiences up to the present a fast development as energy port which focuses on logistic values and opportunities. Groningen Seaports manages the port as well as the industrial area.

The port is divided into five areas

- Doekegatkanaal (entrance)
- Beatrixhaven
- Julianahaven
- Emmahaven
- Wilhelminahaven

3.2.1 Doekegatkanaal (port entrance)

Eemshaven is accessible for vessels with an operational draught up to 14.0 metres under normal HW conditions.

The distance between the two moles is 470 metres. There is a green fixed light at the western mole and a red fixed light at the eastern mole. The Doekegatkanaal has a width at entrance of 325 metres and a length of 2,100 metres. The bottom width is 200 metres with an initial depth of -15.20 metres NAP.

A swinging basin with a diameter of 500 metres and a depth of 9.0 metres is located at the end of the Doekegatkanaal. To the east of the swinging basin is the Wilhelminahaven with a length of 1,200 metres, a bottom width of 200 metres and a depth of 15.0 to 17.0 metres.

To the west of the swinging basin are other basins

- Julianahaven, with a length of 1,200 metres, a bottom width of 200 to 250 metres and a depth of 14.0 to 17.0 metres.
- Emmahaven, with a length of 500 metres, a bottom width of 120 to 150 metres and a depth of 10.0 metres.

3.2.2 Julianahaven

The basin has a length of 1,200 metres, a breadth of 200 to 250 metres and a design depth of 14.0 to 17.0 metres.

Bulk quay

A public bulk quay has been built along the north bank of the Julianahaven with the following particulars $\,$

Type of mooring facility: Quay
Length of mooring facility: 1,205 metres
Design depth: 15 metres

The following companies are in operation behind this bulk quay:

Wijnne Barends, Cement Sales North GmbH, Holland Malt, Eco Fuels Netherlands, and Buss Terminal Eemshaven

 Buss Terminal Eemshaven BV (Berthing location fender Nos 50 to 118)

Buss Terminal Eemshaven BV is operating a multi-purpose terminal with 254,000 square meters of logistics space and a quay lenght of 694 metres. Services for the offshore wind-energy sector are one major focus of operations. Fork-lift trucks, reachstackers, mobile portcrane (max. cap. 208 tons), heavy lift platform (20 to/m²) and modern stevedoring equipment are available to handle project cargo, heavylift, break bulk, containers and roro.

Roro terminal

A roro terminal, managed by Buss Terminal Eemshaven, is located along the northwestern bank of the Julianahaven. The roro bridge (1) is designed to allow seagoing ships to be loaded and discharged rapidly and efficiently. The bridge has three lanes so that vehicles can be driven on and off the ship simultaneously. The whole structure is protected by a fender beam.

• Hydraulic ramp

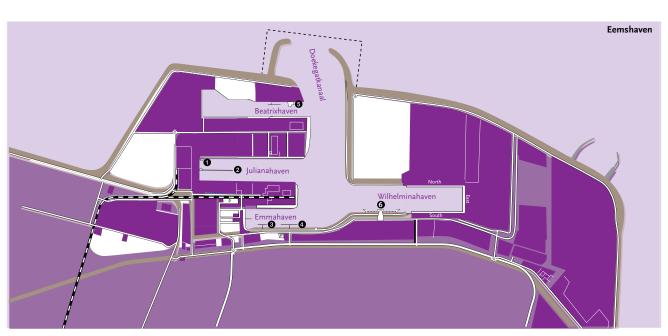
Length:35 metresWidth:20 metresHeadroom:10 metres

Loading: 100 tonne reach stacker Project cargo: Up to 300 tonnes

Maximum gradient: 10°

Oil jetty Julianahaven

A public oil jetty (②) is located at the end of the Julianahaven and is equipped for the transshipment of fluid cargo from/to tank vessels. There are mooring facilities at both sides of the jetty. The length overall is 285 m. (seagoing vessels) and 110 m. (inland vessels).



Southern quay

19

Along the southern bank of the Julianahaven is a general cargo, roro and container handling quay with a length of 1,180 metres and a width of 200 to 250 metres. The quay level is 4.4 metres above NAP at quayside and 4.8 metres above NAP at the centre of the quay.

The following stevedoring companies are in operation at this private quay

Wagenborg Stevedoring BV (Berthing location fender Nos 1 to 24)

Wagenborg Stevedoring BV operates six electric cranes of 20 tonnes capacity each and two spiral ship loaders for bagged cargo. There is storage area of 100,000 cubic metres including 35,000 square metres of shed-space, partly with climate control, and a 150 metre rail terminal.

Fork-lift trucks of up to 30 tonnes and modern stevedoring equipment are available to handle forest products, general cargo and containers. There is also equipment for palletising, de-palletising and offshore activities.

 Eemshaven Sugar Terminal CV (Berthing location fender Nos 1 to 24)

The terminal is managed by Wagenborg Stevedoring BV.

The horizontal bulk sugar silo of 296 x 69 x 33 metres has a storage capacity of 100,000 tonnes. Reception is possible by bulk rail wagon, bulk road truck and self-unloading barge. Loading bags into seagoing vessels is possible via six bagging lines and via two spiral ship loaders with a capacity of 120 tonnes per hour per loader, or in bulk via a bulk loader with a capacity of 750 tonnes per hour.

Sealane Coldstorage BV

Quay length of 120 metres (fender Nos 25 to 30).

The company operates a multi temperature public bonded cold store ranging from +14°C down to -30°C with different chambers and a total capacity of 100,000 cubic metres. The cold storage is classed with Lloyd's Register: Lloyd's RSC 10/80 URSI and is located on the quay with direct access to the side of the vessel. There is a temperature controlled airlock of 15,000 cubic metres with shelters for loading trucks and access to a rail loading facility inside the store.

Wagenborg Stevedoring BV

Quay length of 544 metres (fender Nos 31 to 57).

Multi-purpose terminal

A general insulated shed of 24,000 square metres is available. The terminal is equipped with four rail mounted cargo/container cranes up to 45 tonnes plus an indoor rail facility (200 metres long and 18 metres wide).

Roro traffic

Wagenborg Stevedoring BV operates a roro ramp for large roro vessels in the south-west corner of the Julianahaven.

The roro ramp has a capacity of 92 tons and a ramp width of about 8.0 metres. Four tug masters, three mafi trailers and two container chassis are available for proper roro handling.

There is a container handling area of 50,000 square metres, equipped with two container cranes of 25 tonnes each, two container chassis and two reach stackers.

3.2.3 Emmahaven

The basin is 500 metres long with a breadth of 120 to 150 metres and a depth of 10.0 metres. In the basin a service jetty (3) and floating jetty (4) provides berthing places for small and medium sized vessels.

Companies located in the Emmahaven

Sealane BV

A quay for general and/or dedicated cargo. Roro-ramp included.

Type of mooring facility: Quay Length of mooring facility: 250 metres Design depth: 9.0 metres

Amasus Shipping

Amasus Shipping B.V. is a full-service shipping office.

Type of mooring facility: Jetty 130 metres Length of mooring facility: 9.0 metres Design depth:

3.2.4 Wilhelminahaven

The Wilhelminahaven has a length of 1,200 metres and a breadth of 275 - 300 metres at a depth of 15.0 to 17.0 metres. It is a dedicated basin in the logistics for power production (coal, biomass, gypsum, fly ash).

Type of mooring facility:

Length of mooring facility: 525 metres (north), 450 metres

(south), 275 (east)

17 metres Design depth:

Public loading and unloading facility

The southern part of the basin hosts a public loading and unloading facility (6), for inland vessels with a design depth of 7 metres. The facility is also possible for seagoing vessels, but only under special conditions. A permission of the port authority is needed.

3.2.5 Beatrixhaven

The basin has a length of 1,200 metres and a breadth of about 100-250 metres at a depth of 10.0 metres.

AG EMS Nederland BV

This company operates a daily ropax liner service (6) to the German island Borkum.

The roro ramp has a width of 4.7 metres and a capacity of 100 tonnes. A fenced parking area is available for cars and trailers.

Type of mooring facility: Roro ramp Length of mooring facility: 120 metres Maximum length of vessels: 90 metres Design depth: 6.5 metres

Activity: Cargo/passenger service Two extra mooring facilities: 70 metres and 50 metres

A second roro ramp has a width of 10.0 metres and a capacity of 45 tonnes.

Type of mooring facility: Roro ramp Length of mooring facility: 145 metres Maximum length of vessels: 50 metres Design depth: 7.0 metres

• EMS Maritime Offshore (EMO)

EMS Maritime Offshore (EMO) runs an offshore service facility.

Type of mooring facility: letty Length of mooring facility: 300 metres Design depth: 9.0 metres

A public bulk quay has been constructed along the south bank of the Beatrixhaven with the following particulars:

Type of mooring facility: Quay
Length of mooring facility: 1,188 metres
Design depth: 10.0 metres

Wijnne Barends Logistics BV

(Berthing location fender Nos 1 to 54)

This stevedoring company operates behind the public quay (bollard 1-54). The terminal has a warehouse of 15,000 square metres and an open storage area of 45,000 square metres. Cranes of 110 tonnes capacity, forklifts up to 16 tonnes, a reach stacker of 40 tonnes and equipment for handling general cargo and containers are available.

Holemans Nederland

Holemans Nederland is a supplier of primary building materials such as sand and gravel and operates its own terminal now beheind the quay. (bollard $55 - \dots$).

• DHSS (Clarksons Port Services)

Expanded location of DHSS, part of Clarksons Port Services. Own location behind the quay to operate a offshore service base. (bollard ... –96)

Bek & Verburg | DHSS

Bek & Verburg, a specialist in waste collection and segregation, and DHSS, a vessel agency and port service provider, together construct a new offshore service base behind the public quay (bollard 97 - 107).

• Buss Terminal Eemshaven

Expansion area to store wind turbine parts

Heavy load quay

On the west side of the Beatrixhaven a heavy load quay is situated, especially designed for extra-heavy cargoes. It is suitable for near quay jacking. Jack-up vessels can moor just in front of this quay and use their own cranes.

Length of mooring facility: 220 metres
Design depth: 11.5 metres
Maximum load: 30 ton/m²

Alongside the quay it is allowed to jack-up rigs /offshore

installation vessels

• Twentsche Kabelfabriek (TKF)

TKF operates a cable factory to specifically equip itself to produce marine cables to connect wind turbines from offshore wind farms to power stations.



20

Nautical Directory

Mau



•••••• Industrial area Oosterhorn | Delfzijl



Mans

Map of Delfzijl



1005 Wijnne Barends Logistics 1007 Koninklijke Wagenborg Groep

1011 Havenbedrijf Delfzijl BV

1021 Wagenborg Stevedoring

1021 Wagenborg Bulk Terminal1102 Wijnne Barends Logistics

1134 Heuvelman Ibis BV

1134 Heuverman ibis by

1262 R.J. de Vries - Friesland BV

1301 Koninklijke Niestern Sander BV

1410 Koninklijke Wagenborg Groep

1415 Koninklijke Niestern Sander BV (Docklocation)

1501 Wegrestaurant Schipper

1502 ODN

1503 GFI

1504 Bouwman Hydrauliek

1506 Datema Delfzijl

1507 Smit Betonboringen

1510 Nederlandse Aardolie Maatschappij BV

1601 ContiTank

1706 Koninklijke Niestern Sander BV (Headquarters)

1711 Koninklijke Niestern Sander BV (Newbuilding)

1715 Koninklijke Niestern Sander BV (Maintenance) 1801 Graanbedrijf Nieveen BV

1803 Eemsmond Betoncentrale

1808 Heuvelman Ibis BV

1811 Straalbedrijf Koop

1814 Betonbouw Delfzijl

1816 MAIN BV

1901 Sita Recycling Services

1906 Agrifirm Delfzijl

1908 Wijnne Barends Logistics

2002 TD Constructies

2004 Holland Unique Units

2009 Hikmat Carcleaning

2110 Merema Delfzijl BV

2111 B & S International BV

2120 Pultrum Project

2302 -

2405 Vos Logistics BV

2632 Fa. Godlieb & Zn

2659-2660 B & S International BV

2701 Nautisch Centrum Delfzijl2704 Orange Performance

Sailcraft

2706 Ubels Offshore 2707 Maatschap R. de Wit

(Het Botenhuis) 2709 Marine Maintenance Service

3201 Veenstra Onderhoud

3202 Kok Voegwerken

3205 EQIN

3208 Vastgoed Koetze

3300-3342 Nobian

Base Chemicals BV

3332 Nobian Salt BV

3336 Delamine BV

3337 Delesto BV

3340 Bio MCN (OCI)

3341 Lubrizol Advanced Materials Inc

3342 Teijin Aramid BV

3353 ChemCom Industries BV

3356 Evonik 3357 North Water

- Heuvelman GSO

Avantium

3402 GIGA Storage

3403 RSP Technology

3405 Spie Nederland BV

3406 Etex Building Performance

3407 Elzinga Groep

3409 Zeolyst CV

3410 EEW Energy from Waste Delfzijl BV

3424 RMD (Roba Metals Delfzijl)

3601 PPG Delfzijl

3606 Gebroeders Borg

3607 Reym

3650 Zanddepot Heuvelman

Ibis BV

3801 Gebroeders Borg

3805 De Boer Demontage

3807 Wijnne Barends Logistics

3832 Chemport Innovation Center

3840 Eneco Bio Golden Raand

3943 Bertschi AG

3945 DOW Benelux BV

3949 Heuvelman GSO

3950 Groningen Seaports

3955 S & B BV

4231 Heuvelman GSO

4302 KBM Master Alloys BV

4303 Nederlandse Aardolie

Maatschappij BV Sustainable Fuel Plant (SFP)

Purified Metal Company

4313 ESD-SIC BV

4618 Nederlandse Aardolie Maatschappij BV

4620 JPB Groep BV

4901 Subcoal International

• Beatrix- and Julianahaven | Eemshaven



Mans

Map of Eemshaven



7009 NorNed

7011 -

7013 Rijkswaterstaat

7016 -

7017 TenneT

7018 RWE

7025 EQIN

7030 Schakelstation Enexis

7035 Schakelstation Robbenplaat

7047 ENGIE Nederland BV

7210 Google

7402 RWE (Building Area)

7635 EemsEnergyTerminal (LNG)

7650 RWE (former Vattenfall)

7720 Gemini 7750 TenneT

7760 COBRAcable

7805 QTS

7810 Bakker Bierum Cold Stores

7820 Theo Pouw Secundaire Bouwstoffen BV

8016 Nijlicht (Office)

8050

8111 Gulf

8125 Amasus Shipping

RelyOn Nutec

8178 Werkman Hoofcare

8179 KNRM (Rescue Squad)

8186 Service Centrum Eemshaven

Eemshaven Distribution Centre (Necron)

8189 Sealane Coldstorage BV

8190 Seafarers' centre

8206 Restaurant Diekgat

8221 RWE Innogy Windpower Netherlands

8301 O.K. Invest

8302 O.K. Invest

Collé

8308 Tata Communications

8223 Peterson Offshore

8310 Daiwa House

8415 Bek & Verburg | DHSS

8454 Buss Terminal Eemshaven

Clarksons (DHSS)

Holemans Nederland

8475 Wijnne Barends Logistics 8480 Buss Terminal Eemshaven

8480 Broekman Logistics

8482 Eco Fuels Netherlands

8484 Holland Malt BV

8486 TenneT GmbH

8492 Cement Sales North GmbH

8494 Wijnne Barends Logistics

8503 Koninklijke Wagenborg Groep

8511 Sealane Coldstorage BV

8515 Eemshaven Sugar Terminal

8930 Heliport Eemshaven

Twentsche Kabelfabriek

8948 EMS Maritime Offshore

8950 AG EMS Nederland BV

9001 Vopak Terminal Eemshaven

NAM

Waterschap Noorderzijlvest

Bulk carrier with steel at Wijnne Barends Julianahaven | Eemshaven



Companies

+31 (0)596 63 69 11

+31 (0)513 65 79 00

Companies

Data analogista		• • • • • • • • • • • • • • • • • • • •
Port authorities		
Groningen Seaports	Head office Delfzijl Nautical Service Center	+31 (0)596 64 04 00 +31 (0)596 64 04 77
Customs	Head office Zwolle Office Eemshaven Office Veendam	+31 (0)38 467 25 41 +31 (0)596 51 64 49 +31 (0)598 69 67 00
Immigration	Office Delfzijl Office Delfzijl (sea locks) Office Eemshaven	+31 (0)596 61 38 31 +31 (0)596 63 38 70 +31 (0)596 51 61 01
Province of Groningen	Sea locks Weiwerderbridge Delfzijl	+31 (0)596 63 38 60 +31 (0)596 63 38 60
Agencies, stevedoring & warehousing		
AG EMS Nederland BV	Passenger service	+31 (0)596 51 60 84
Amasus Shipping BV	Shipping agency	+31 (0)596 64 98 00
Gebr. Borg BV	Stevedoring	+31 (0)655 75 02 89
Broekman Logistics	Shipping agency	+31 (0)10 487 39 11
Buss Terminal Eemshaven	Stevedoring, offshore, storage	+31 (0)596 51 63 30
Clarksons (DHSS)	Shipping agency	+31 (0)596 74 51 00
Deep BV	Shipping agency	+31 (0)20 634 36 76
Elzinga Cargo Facilities BV	Stevedoring, cranes	+31 (0)595 41 30 80
Havenbedrijf Delfzijl	Stevedoring, cranes	+31 (0)596 63 50 60
Rhenus Logistics	Shipping agency	+31 (0)10 440 04 25
Sealane BV	Shipping agency, warehousing	+31 (0)596 63 38 88
Tarbit Tankers	Shipping agency	+31 (0)78 639 10 30
Van der Veen Shipping	Shipping agency	+31 (0)596 61 63 00
Wagenborg Shipping & Stevedoring	Shipping agency, warehousing	+31 (0)596 63 69 11
Wijnne Barends Agency BV	Shipping agency, warehousing	+31 (0) 596 63 77 77
Boatmen, pilots, port reception facilities & tugboats		
Bek & Verburg	Port reception facility	+31 (0)596 74 50 27
Boatmen Delfzijl/Eemshaven	Boatmen	+31 (0)596 64 04 77
nt. Sleepdienst v/h F. Bijma	Tugboats	+31 (0)598 45 17 78
nternational Slop Disposal	Port reception facility	+31 (0)85 486 72 22
oosten	Port reception facility	+31 (0)596 61 81 00
Nederlands Loodswezen BV, regio Noord	Pilots	+31 (0)596 61 81 88
Pre Zero	Port reception facility	+31 900 84 44
Renewi	Port reception facility	+31 (0)50 316 88 88
Reym	Port reception facility	+31 (0)598 65 95 00
• • • • • • • • • • • • • • • • • • • •	······	

Tugboats

Port reception facility

Wagenborg Sleepdienst BV

Wenau

Colophon

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 Fotografie Koos Boertjens







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