HELCOM Overview 2014

Baltic Sea Sewage

Port Reception Facilities
Baltic Sea Sewage Port Reception Facilities
HELCOM Overview 2014
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I. A regional sewage PRF overview - with focus on cruise ships

This report provides information on the status of sewage port reception facilities (PRFs) and their use in the Baltic Sea area in 2014, with a focus on international cruise traffic. Cruise traffic has been growing during recent years but up to now relatively little quantitative Baltic Sea-wide information has been available on what this might mean in terms of sewage PRF needs in the Baltic Sea cruise ports.

Ferry traffic and ports have been covered to some extent in previous HELCOM PRF overviews (e.g. HELCOM 2014). However, ferries were omitted from this updated report in order to enable focus on cruise ship information. Ferry traffic information based on AIS will be included in the future if resources are made available. The main international ferry lines in the Baltic Sea are listed in annex 2 for reference.

This document has been compiled by the HELCOM Secretariat mainly based on an analysis of regional AIS data from April-October 2014. Other important sources of information have been the shipping industry, port authorities and national administrations. During the period 2008-2014 these have provided HELCOM with regular updates on passenger traffic and port reception facilities.

Information from national administrations and industry

Information from the national administrations has been provided via the national delegates of the HELCOM MARITIME group.

Information from the industry has been collected with the generous help of HELCOM industry Observers particularly Cruise Lines International Association (CLIA), including a joint online survey for cruise ships during 2014, but also European Community Shipowners Association (ECSA), Baltic Ports Organisation (BPO) and European Sea Ports Organisation (ESPO). These industry actors have cooperated within the regional Cooperation Platform on Port Reception Facilities (PRF) in the Baltic Sea established in 2010.

In May 2014, HELCOM and the Cruise Lines International Association (CLIA) launched a joint survey in the Baltic Sea region for summer 2014. The survey aimed to collect detailed data on sewage delivery needs and available facilities in the Baltic Sea ports. The survey was available for cruise ships stopping in Baltic Sea ports between May and October 2014. The questionnaire was sent to ships and also to ports, but only a few ports answered. Answers from a total of 667 port calls, by 29 different cruise ships in 22 ports of the region, were received.
The results of the survey have been used in this document for showing the actual use of sewage PRFs in the biggest ports in Baltic Sea, as well as to document related comments by cruise ships crew.

Additional information sources for this publication have been an exchange of letters on sewage PRFs under the Nordic Council of Ministers (finalized in 2013), the Baltic Port List series published by the Turku University Centre for Maritime Studies, a 2013 compilation of statistics by the industry initiative Cruise Baltic (cruisebaltic.com) as well as a compilation of ferry line information from ferrylines.com.

AIS data

AIS data from the regional HELCOM AIS network, covering the whole Baltic Sea area, was used in order to get coverage of the cruise traffic in the region. A list of 77 cruise ships in Annex I, based on information from big ports and Cruise Baltic, was used to separate international cruise ships from the rest of passenger traffic. Port calls were defined as stops of more than 1 hr.
2. General characteristics of cruise traffic in the Baltic Sea 2014

According to AIS data from April to October 2014 there were in total 2252 international cruise ship calls in the Baltic Sea. Of these 1801 were intra-Baltic travels, or calls where both the previous port visited and the current port are in the Baltic Sea. In 2014 these international cruise ship voyages involved 6.55 million person days in the Baltic Sea region (at sea and in port, see annex 1).

The number of cruise ship calls has remained stable over the last ten years but the number of passengers has increased (see figure 1).

Characteristics of cruise ships operating in the Baltic Sea

Based information from the industry initiative “Cruise Baltic” there were 77 international cruise ships operating in the Baltic Sea in 2014. 80% of the cruise ships operating in the Baltic Sea have a maximum capacity of 3000 persons or less (Figure 2).

10%, or 8, of international cruise ships are very large ships which can carry more than 4000 persons (passengers and crew). 30% (22) are small ships which can carry at most 1000 persons.

Based on the HELCOM-CLIA Survey the cruise ships operating in the region had an average fullness ratio\(^1\) of 90, 38 %.

More information on the ships operating in the region is available in Annex 1.

\(^1\) This figure shows embarked and disembarked international passengers divided by two.

\(^2\) Fullness ratio = number of passengers onboard / max capacity.
Ports visited by cruise ships

The ports visited by cruise ships in 2014 are presented in the map and figure below. Detailed information for each port is included in section 3 of this publication. The main destinations for cruise ships include St. Petersburg, Copenhagen, Tallinn, Helsinki and Stockholm. These five ports alone account for 67% of the cruise ship traffic in terms of calls.

Figure 3 Routes and destination ports of cruise ships 2014
In addition to ports listed in figure 4, there are five ports (Vaasa, Kotka, Aalborg, Turku, Kalmar) in the region which have had international cruise traffic during previous years, but not during 2014.

Anchoring

According to the AIS data cruise ships do not always enter some small ports. Instead, the ships anchor outside the port and have tender, or shuttle boat, to transfer passengers to the shore. In 2014 such potential anchoring of cruise ships, or stops with a duration of more than 5 hours, was observed outside Visby (11 calls), Bornholm/Rönne (4 calls), and Helsingör (1 call).

\[ \text{Calls observed following the AIS data analysis and the list of cruise ships from the industry initiative “Cruise Baltic” listed in Annex I). Due to the method, the figures in some ports (e.g. Gdansk, Gdynia, Rostock and Stockholm) do not always match exactly with statistics compiled by port authorities.} \]
Cruising season in the Baltic Sea

The cruising season in the Baltic Sea stretches from late April until October. The peak season is during the period June-August (Figure 5).

![Figure 5 Monthly number of cruise ship calls in the Baltic Sea 2014](image)

Duration of cruise ship voyages within the Baltic Sea

70% of cruise ship voyages between two ports in the Baltic Sea lasted from 8 to 20 hours at sea in 2014 (Figure 6). Another cluster of voyage durations was between 30 and 40 hours (23% of trips). After trips of more than 30 hours at sea the ships stay mostly in ports in the eastern part of the Baltic Sea (Tallinn, Stockholm, St Petersburg and Helsinki) but also in Copenhagen.

![Figure 6 Duration of cruise ship voyages in the Baltic Sea during 2014](image)
Duration of stay in ports

Most frequently international cruise ships stop for 8-10 hours in the ports of the Baltic Sea (Figure 7). Another minor peak in duration of berth time is between 30 and 40 hours, which comes mainly from longer stays in St.Petersburg.

Use of Sewage PRFs in the Baltic Sea 2014

Based on the HELCOM CLIA joint survey 2014 (667 answers) 30% of the cruise ships used sewage PRF when available (see figure below).

One third of cruise ships use sewage PRF

HELCOM CLIA survey 2014

Figure 7 Duration of cruise ship calls 2014, in hours

Figure 8 Usage of available sewage PRFs by cruise ships 2014
Estimated maximum theoretical discharge need of cruise ships

This report provides estimated port-wise maximum theoretical sewage discharge needs of cruise ship calls. This is useful to have an overview of the needs of cruise ships in terms of sewage PRFs when MARPOL Annex IV Special area is enforced in the Baltic Sea region.

Such a theoretical discharge need of cruise ship calls can be estimated by calculating person x days from previous port. This figure can be divided by time (in hours) at berth in current port to estimate the capacity need per hour at berth. For such estimates one needs to know the time from previous port, the maximum number of passengers and crew on board and time spent at berth:

\[
\frac{\text{Days at sea} \times \text{persons}}{\text{Time spent at port} - 30\text{ minutes}}
\]

All this information was available from AIS data. Figure 9 illustrates the overall Baltic Sea situation of such theoretical discharge estimations for 2014.

Assumptions

It should be noted that the above estimation assumes:

- **Completely full ships**
  Cruise ships are always filled to 100% capacity both in terms of passengers and crew.

- **Sewage discharge time = berth time – 30 minutes**
  Thirty minutes were deducted from total berth time to give the available time for sewage PRF discharges, in order to account for arrival and departure preparations.

- **100% sewage discharged to port**
  The calculations assume the ships will discharge all their sewage, both black and grey, to the port.

- **No route planning**
  No route planning, such as doing more stops to avoid long legs or extending the time in
Port to accommodate for sewage discharge, is assumed.

Short technical visits not included
Port calls less than five hours were not used for sewage discharge need calculations. Short calls have been assumed to be technical stops (e.g. refueling), not regular cruise visits.

Discharge needs in m$^3$/h
In order to use the above calculated values to get estimations of theoretical discharge needs of cruise ships in volume per time unit, such as m$^3$ of sewage/hour, one needs to have an estimation of the generation of sewage per person per travelled day.

This is less straightforward as such estimates of sewage generation on board a ship depend on various factors including the technology used on board a given ship (e.g. vacuum or gravitation toilets or the waste water treatment system in use).\(^1\)

For instance, on board the overnight ferries between Helsinki and Stockholm in the Baltic Sea the total sewage generation has been observed as around 0.1 m$^3$ sewage per person per day.\(^2\)

The results of the HELCOM-CLIA survey results indicate an average calculated total production of sewage around 0.17 m$^3$ sewage per person per day. The Port of Copenhagen considers sewage volumes exceeding 0.13 m$^3$ per person person per travelled day from previous port as disproportionately large.\(^2\)

Due to the large variation of such sewage production estimations this report does not include ready calculated figures of discharge needs in m$^3$/hour.

Instead, the estimations are presented as a value which gives the reader estimated total discharge need in volume per time unit, if multiplied with a sewage generation estimation of choice such as those listed above.

Work in upgrading PRF facilities in the Baltic Sea 2010 onwards
The 2010 HELCOM Sewage PRF Roadmap\(^3\) states that Helsinki, St. Petersburg, Stockholm, Visby and Klaipeda have adequate port reception capacity for sewage.

The 2010 roadmap also lists eight ports (Tallinn, Rostock, Copenhagen, Riga, Gdynia, Helsingö, Rödby and Swinouscje) as first priority ports where the Baltic Sea countries should take all appropriate measures to upgrade port reception facilities to a standard sufficient for large passenger ships. In addition the document lists a number of second priority ports where the needs of further upgrade measures should be investigated.

Since 2010 several ports in the Baltic Sea region have had ongoing activities to upgrade their facilities according to the roadmap as well as national priorities.

The HELCOM PRF cooperation platform, consisting of ports (e.g. BPO & ESPO), shipowners (e.g. CLIA, ECSA & Interferry), WWF and national administrations has identified and provided answers to a number of challenges related to availability and use of sewage PRFs in the region.

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\(^2\) See port description for Copenhagen in section 3 of this report.
\(^3\) HELCOM 2010. Roadmap for upgrading port reception facilities for sewage in passenger ports of the Baltic Sea area.
3. Port-specific information

This report provides detailed information on all ports visited by cruise ships in 2014, in total 33 ports. The information of each is organized as follows:

### Port (Country)

311 cruise calls


Berths used by cruise ships according to AIS data during April - October 2014 are indicated with a red marker.

### 1. Sewage Port Reception Facilities 2014


Information on availability, planned improvements and history of sewage PRF. The information has been received from countries and ports. For some ports little information is available.

### 2. Passenger traffic trends in Port


A compilation of passenger traffic statistics for the port based on several sources: Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.
3. Cruise ship visits in Port - 2014

Information received from industry


3.1. Sewage discharges 2014

Information based on responses to the HELCOM-CLIA survey, conducted during summer 2014. The responses are from individual cruise ships and a few ports.

Maecenas quis posuere

Comments from ports on cruise ship visits 2014

Lorem ipsum dolor sit amet

AIS based statistics (total calls: 311)


3.2. Time at sea from previous port per call

3.3. Time spent at port per call

Graphs based on an extraction from the 2014 AIS data made using a list of cruise ships observed to operate in the Baltic Sea (Annex I).

3.4. Maximum number of persons on board per call

Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

Maximum capacity of persons onboard including passengers and crew

1 Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m$^3$ sewage per person per day gives you the estimated total discharge need in m$^3$·h$^{-1}$.

Days at sea (days from previous port) / (Person maximum capacity of ship) / Time (hours spent at port - 30 minutes)
Saint Petersburg (Russia)

390 cruise calls

http://www.pasp.ru  UN LOCODE: RULED

Berth used by cruise ships according to AIS data during April – October 2014

1. Sewage Port Reception Facilities 2014

The Saint Petersburg area includes in total five harbours serving passenger traffic.

The new passenger port “Marine Façade” (Marine Passenger Terminal on Vasiljevskiy Island, St. Petersburg) has fixed standard connections to the municipal wastewater system with capacity.

Other quays of Port St. Petersburg have no direct discharge to municipal wastewater system. The sewage at these quays is collected by tankers operated by three different companies:

Direct fee collected in accordance with the national rules and according to volumes is applied for collection wastes, including sewage, from passenger ships.

Planned improvements

No information provided for 2014.

Before 2014

Saint Petersburg was listed as having adequate PRF for sewage in the 2010 HELCOM Roadmap for upgrading PRF for sewage in passenger ports of the Baltic Sea area.

In 2009, the capacity of the sewage collection was up to 1,000 m³ per day. The investment for port reception facilities was around 1 million USD.

In 2010, when three new quays in Marine Façade were put into operation the capacity of sewage collection was 2,700 m³ per day. During second stage of construction the planning of investments was around 2 million USD.

In 2011, after the completion of terminal construction and putting into operation of two new quays, the capacity of sewage collection was 4,745 m³ per day.

2. Passenger traffic trends in Saint Petersburg

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

Cruise ships calls

Cruise ships passengers

International cruise and ferry passengers
3. Cruise ship visits in Saint Petersburg - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM –CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014

The figure shows discharges reported by cruise industry as part of the survey. The black bar shows the number of ships that did not use the sewage PRF for sewage even if available.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 390)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex I). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call

Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m³ sewage per person per day gives you the estimated total discharge need in m³·h⁻¹. Days at sea (days from previous port to port) x Persons x maximum capacity of ship / Time (hours spent at port – 30 minutes).
Copenhagen (Denmark)

311 cruise calls
http://www.cmport.com/, UN LOCODE: DKCPH

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014

Direct discharge to sewer system is available on the new 1,1 km quay which has been operational from 2014 onwards with capacity 250-300 m³ sewage per hour per berthing place. The system is equipped with the possibility of flushing with rain water to avoid clogging.

Otherwise Copenhagen Port’s reception facilities for sewage utilise the tankers of a haulage company. There is a possibility to utilise three tankers per delivery. After collection, the sewage is pumped via a pump station and sewer system to the municipal sewage treatment plant.

Collection of sewage and grey water pursuant to the ‘no special fee’ system is made on condition that:

- The ship can deliver the sewage at the shipside at a pump capacity of 50 m³ per hour. A charge will be made for the collection of disproportionately large amounts (i.e. more than 130 liters per person for each 24-hour period since the last port of call), or for collection outside normal working hours, as specified in the list of charges.
- Tankers can obtain unhindered access to and from the place of collection without delay.

The ship is fitted with a standard flange.

Planned improvements

No information provided for 2014.

Before 2014

Copenhagen was one of the eight ports listed as first priority ports in the 2010 HELCOM Roadmap for upgrading PRF for sewage in passenger ports of the Baltic Sea area.

2. Passenger traffic trends in Copenhagen

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

Cruise ships calls

Cruise ships passengers

International cruise and ferry passengers
3. Cruise ship visits in Copenhagen - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014

The figure shows discharges reported by cruise industry as part of the survey. The black bar shows the number of ships that did not use the sewage PRF for sewage even if available.

Comments from cruise ships on port facilities 2014

“Because of the presence of passengers, the use of road tankers can be a safety issue.”

“There are unreasonable charges for the use of the facilities for sewage.”

Comments from ports on cruise ship visits 2014

No information provided for 2014.

AIS based statistics (total calls: 311)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex I). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call

Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

$\text{(Days at sea)} \times \text{days from previous port} \times \text{Person maximum capacity of ship} \times \text{Time (hours spent at port – 30 minutes)}$

gives you the estimated total discharge need in $\text{m}^3\text{yr}^{-1}$. 

---

1 Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in $\text{m}^3$ sewage per person per day gives you the estimated total discharge need in $\text{m}^3\text{yr}^{-1}$. 

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15
1. Sewage Port Reception Facilities 2014

Fixed reception points connected to public sewage system are available at Tallinn Old City Harbour quays number 1 and 3. (max capacity 60m3/h), number 13-16, number 26-27 (new cruise quay, max capacity 100m3/h). Max capacity depends how many ships are discharging at the same time (max 60m3/h or 100m3/h is per 1 ship).

In other quays there is no direct discharge to sewer system – i.e. the quays are served by tank trucks (7-17m³) if requested.

A standard waste fee is charged from every ship with some exceptions. Sewage volumes exceeding 7m³ are subject to extra payment.

Planned improvements

Port of Tallinn is constructing PRF connected to public sewage system at Old City Harbour quays no 24-25 (old cruise quay, max capacity 100m3/h, depends how many ships are discharging at the same time). The sewage receiving capacity (100 m3/h) of the main route is not enough to receive the sewage simultaneously from multiple ships. Port of Tallinn plans to construct the new microtunnel which has a perspective to receive sewage up to 1000 m3/h and it is planned to connect the microtunnel to the deep collector of public sewage company. Start of construction works - 2015

Before 2014

Tallinn was one of the eight ports listed as first priority ports in the 2010 HELCOM Roadmap for upgrading PRF for sewage in passenger ports of the Baltic Sea area.

Fixed reception points connected to public sewage system at Old City Harbour have been available for a longer time for quays no. 1 and 3.

2. Passenger traffic trends in Tallinn

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

Cruise ships calls

<table>
<thead>
<tr>
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</thead>
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<td>268</td>
</tr>
<tr>
<td>2007</td>
<td>279</td>
</tr>
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<td>2008</td>
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</tr>
<tr>
<td>2009</td>
<td>272</td>
</tr>
<tr>
<td>2010</td>
<td>331</td>
</tr>
<tr>
<td>2011</td>
<td>304</td>
</tr>
</tbody>
</table>

Cruise ships passengers

<table>
<thead>
<tr>
<th>Year</th>
<th>Passengers</th>
</tr>
</thead>
<tbody>
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<tr>
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<td>293</td>
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<tr>
<td>2010</td>
<td>290</td>
</tr>
<tr>
<td>2011</td>
<td>279</td>
</tr>
</tbody>
</table>

International cruise and ferry passengers

<table>
<thead>
<tr>
<th>Year</th>
<th>Passengers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>519 000</td>
</tr>
<tr>
<td>2007</td>
<td>479 000</td>
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<tr>
<td>2008</td>
<td>437 000</td>
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<td>519 000</td>
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<tr>
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<td>441 000</td>
</tr>
<tr>
<td>2013</td>
<td>519 000</td>
</tr>
<tr>
<td>2014</td>
<td>479 000</td>
</tr>
</tbody>
</table>
3. Cruise ship visits in Tallinn - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM –CLIA survey. The dataset covers the whole cruising season (April to October 2014).

1. Sewage discharges 2014

The figure shows discharges reported by cruise industry as part of the survey. The thin black column shows the number of ships that did not use the sewage PRF for sewage even if available.

Comments from cruise ships on port facilities 2014

“The transfer of 7m³ is included in the port fee. After this amount, the use of the PRF for sewage is not free.”

“The tank trucks have a small capacity (12m³).”

Comments from ports on cruise ship visits 2014

No information provided for 2014.

AIS based statistics (total calls: 285)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area according to the cruising industry initiative “Cruise Baltic” (www.cruisebaltic.org). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call

Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based on the following calculation. Multiplying this figure with a waste water production estimation in m³ sewage per person per day gives you the estimated total discharge need in m³-1.

\[
\text{Estimated total discharge capacity} = \text{Days at sea} \times \text{Days from previous port} \times \text{Persons maximum capacity of ship} \times \frac{\text{Time (hours spent at port – 30 minutes)}}{1800}\]
Helsinki (Finland)

259 cruise ships calls

http://www.portofhelsinki.fi/ UN LOCODE: FIHEL

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014

At all three ports grey and black water is discharged from the vessels directly to the city waste water system. The ship service person of the port connects the hose at the appointed time. The vessel must use its own pump for discharging and the vessel must have the possibilities to flush the hoses after discharging. This service is free.

**West Harbour**: 11 berths incl. ice breakers. Discharge points are located every 40-60m. Sewer pipes have been renovated recently. Capacity of the PRF: 100 m³/h (possibility to double the capacity if two pipes are used simultaneously).

**South Harbour**: 12 berths incl. ice breakers. Discharge points are located every 40-60m. Sewer pipes have been renovated recently. Capacity of the PRF: 100 m³/h (possibility to double the capacity if two pipes are used simultaneously).

**Vuosaari cargo port**: 17 quays for roro ships and 1500m of container pier. Waste water discharge points are every 40-60m. A pre-treatment facility for waste water has also been installed in this port area.

Planned improvements

A new quay for cruise vessels is planned to be built in Hernesaari area (West harbour) with sewage port reception facilities. If the decision to build the new quay will be made, the new facilities would be available in 2017-2018.

**Before 2014**

The first fixed sewage pipelines in South Harbour quays were installed in 1990, and during 1999–2009 the pipelines were assembled on all existing quays in South and West Harbours. During recent years, installations of PRF for sewage have been made when new quays have been built for cruise ships. The new Vuosaari cargo port was completed in the end of 2008 and it is equipped with sewage pipelines in all quays and piers. Helsinki was listed as having adequate PRF for sewage in the 2010 HELCOM Roadmap for upgrading PRF for sewage in passenger ports of the Baltic Sea area.

2. Passenger traffic trends in Helsinki

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organisations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

Cruise ships calls

<table>
<thead>
<tr>
<th>Year</th>
<th>2006</th>
<th>2007</th>
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Cruise ships passengers

<table>
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</table>

International cruise and ferry passengers

<table>
<thead>
<tr>
<th>Year</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
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<tr>
<td></td>
<td>9,164,000</td>
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<td>10,724,000</td>
<td>10,724,000</td>
<td>10,724,000</td>
<td>10,724,000</td>
</tr>
</tbody>
</table>
3. Cruise ship visits in Helsinki - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014

The figure shows discharges reported by cruise industry as part of the survey. The black bar shows the number of ships that did not use the sewage PRF for sewage even if available.

Comments from cruise ships on port facilities 2014

West Harbour: “Due to the size of the hose provided to deliver sewage waters, the back pressure generated reduced the discharge flow rate.”

Comments from ports on cruise ship visits 2014

No information provided for 2014.

AIS based statistics (total calls: 259)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

2. Time at sea from previous port

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call

Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based on the following calculation. Multiplying this figure with a waste water production estimation in m³ sewage per person per day gives you the estimated total discharge need in m³·h⁻¹·days⁻¹.

\[
\text{Days at sea} \times \frac{\text{hours at sea}}{24} \times \frac{\text{hours spent at port}}{60} \times \frac{\text{maximum capacity of persons onboard}}{1000} \times \frac{\text{person x days}}{\text{time in port} - 30 \text{ minutes}}
\]
Stockholm (Sweden)

248 cruise calls (280 according to official port statistics)

http://www.stockholmshamnar.se/ UN LOCODE: SESTO

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014

Fixed reception points for black and grey water are available at all piers used by cruise ships. Port of Stockholm has recently upgraded the PRF in Stadsgården/Masthamnen to increase the capacity of the facilities for roro/ropax (Viking Line) but also cruise vessels.

Where stationary reception facilities are not available, the Port can provide tank trucks or a barge with a capacity of 550 m³ to collect waste water if needed.

The disposal of black- and greywater in port is included in the port fee. It is thus a general fee, based on the number of passengers, regardless of if the vessel offload black- and grey water or not.

Planned improvements

No information provided for 2014.

Before 2014

The Port of Stockholm has a long history with sewage reception. The first PRFs for ropax was constructed 1995. Direct discharge to municipal sewage system available at all quays in 2013.

Stockholm was listed as having adequate PRF for sewage in the 2010 HELCOM Roadmap for upgrading PRF for sewage in passenger ports of the Baltic Sea area.

Direct discharge to municipal sewage system available at all quays in 2013.

2. Passenger traffic trends in Stockholm

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

Cruise ships calls

Cruise ships passengers

International cruise and ferry passengers
3. Cruise ship visits in Stockholm - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

1. Sewage discharges 2014

The figure shows discharges reported by cruise industry as part of the survey. The black bar shows the number of ships that did not use the sewage PRF for sewage even if available.

Comments from cruise ships on port facilities 2014

“The distance to PRF depends on which side and berth the ship berths. The distance to the PRF can generate back pressure due to the length of the hose which reduces the discharge flow rate.”

“The discharge can take time because the pumping rate is too low.”

Comments from ports on cruise ship visits 2014

Vessels normally deliver with flow rates 60 - 100 m³/h which during an average stay of 8 hours is enough. No need for stipulated 300 m³/h.

AIS based statistics (total calls: 248)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call

Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based on the following calculation: Multiplying this figure with a waste water production estimation in m³ sewage per person per day gives you the estimated total discharge need in m³/h.

\[
\text{Estimated discharge need} = \frac{\text{Maximum capacity of persons onboard} \times \text{Maximum number of persons on board per call} \times \text{Time at sea from previous port per call}}{30} \times \text{Days at sea (days from previous port) \times Persons (maximum capacity of ship) \times Time (hours spent at port - 30 minutes)}
\]
Rostock (Germany)
186 cruise calls (182 according to official port statistics)
http://www.rostock-port.de/  UN LOCODE: DERSK

1. Sewage Port Reception Facilities 2014

The cruise port of Rostock-Warnemünde is equipped with a direct connection of the berths to the municipal sewer system (144m³/h as a sum for all berths). Tank trucks are available in the cargo port. Up to 300m³ of sewage is included in the “no-special-fee” system. Sewage volumes exceeding 300m³ are charged with 3EUR/m³.

Sewage from cruise ships (incl. grey water) is accepted only within the defined and published sewage quality parameters. The sewage quality is monitored during the sewage transfer process. In case of a divergency from the published sewage quality the transfer process will be interrupted.

Planned improvements

Improvements in the coming seasons will focus on organizational matters and smaller adjustments to the sewer system at the berths. By now, no option is available to raise the max. the flow rate into the municipal sewer system is above 144m³/h.

Before 2014

In 2012 a fixed link to the municipal sewer system became operative at the cruise berths in Warnemünde. While in 2013 the municipal treatment plant accepted sewage with a maximum intake rate of 90m³/h this rate could be raised to 144m³/h in 2014. The acceptance of sewage disposal in Rostock developed as follow:

- 2012 19.120 m³ during 71 out of 181 calls
- 2013 29.284 m³ during 111 out of 196 calls
- 2014 20.724 m³ during 88 out of 182 calls

Rostock is one of the eight ports listed as first priority ports in the 2010 HELCOM Roadmap for upgrading PRF for sewage in passenger ports of the Baltic Sea area.

2. Passenger traffic trends in Rostock

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

Cruise ships calls

Cruise ships passengers

International cruise and ferry passengers
3. Cruise ship visits in Rostock - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
“A ship can only discharge 300m³ for free per port of call.”

Comments from ports on cruise ship visits 2014
A total of 20.724m³ sewage discharged during 88 ship calls (out of 182). The maximum sewage disposal quantity per call was 306m³. The minimum sewage disposal quantity per call was 4m³.

AIS based statistics (total calls: 186)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call
Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

\[
\text{Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based on the following calculation. Multiplying this figure with a waste water production estimation in m³ sewage per person per day gives you the estimated total discharge need in m³/h.}
\]

\[
\text{Days at sea (days from previous port/Person/maximum capacity of ship)}
\]

\[
\text{Time (hour spent at port - 30 minutes)}
\]
**Kiel (Germany)**

131 cruise calls

http://www.portofkiel.com/ UN LOCODE: DEKEL

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**1. Sewage Port Reception Facilities 2014**

Port of Kiel has reception facilities on every cruise/ferry berth except terminal ostuferhafen. Direct connection to the municipal waste waters treatment plant has a capacity of 35-50 m³/h, depending of the berth.

Ship’s tonnage is used as a basis for ships’ sewage charges. Large volumes are subject to extra payment.

The seaport has separate suction devices and takes only a transit function. According to practical experience the disposal of the sewage capacity is currently unproblematic in the Port of Kiel.

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**Planned improvements**

Planning process for extension of PRF at cruise terminal Ostseekai in progress. New capacities are planned to reach up to 300 m³ per hour and approximately 1000 m³ per berth and day.

**Before 2014**

All passenger terminals in the city centre have been equipped with a direct connection to the municipal waste water system during the last years.

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**2. Passenger traffic trends in Kiel**

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

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<table>
<thead>
<tr>
<th>Cruise ships calls</th>
<th>Cruise ships passengers</th>
<th>International cruise and ferry passengers</th>
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<tbody>
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<td><img src="image1.png" alt="Cruise ships calls graph" /></td>
<td><img src="image2.png" alt="Cruise ships passengers graph" /></td>
<td><img src="image3.png" alt="International cruise and ferry passengers graph" /></td>
</tr>
</tbody>
</table>
3. Cruise ship visits in Kiel - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014

The figure shows discharges reported by cruise industry as part of the survey. The black bar shows the number of ships that did not use the sewage PRF for sewage even if available.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 131)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call

Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m$^3$ sewage per person per day gives you the estimated total discharge need in m$^3$.\1

\1 Days at sea (Days from previous port) \times \text{Persons maximum capacity of ship} \times \text{Time (hours spent at port - 30 minutes)}

25
Gothenburg (Sweden)

77 cruise ships calls
http://www.goteborgshamn.se/  UN LOCODE: SEGOT

1. Sewage Port Reception Facilities 2014

Cruise ship berths are available at free harbour (Frihamnen) pier 107, Stigbergskajen 35-37 and Arendalskajen 751-752. In all locations direct connection to the municipal waste-water treatment plant is available with capacity of 40-45 m³/h. Barges and tank trucks are also available for smaller quantities.

Ferry traffic has their own piers from where they have arranged their sewage discharge.

The use of PRF for discharging sewage at port is free. According to the statistics of the port of Gothenburg there were 73 cruise ship calls in 2014, 42% of which used sewage PRFs.

Planned improvements

No information provided for 2014.

Before 2014

Direct connection, trucks and barges.

2. Passenger traffic trends in Gothenburg

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

Cruise ships calls

Cruise ships passengers

International cruise and ferry passengers
3. Cruise ship visits in Gothenburg - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM –CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014

The figure shows discharges reported by cruise industry as part of the survey.

Comments from cruise ships on port facilities 2014

No information provided for 2014.

Comments from ports on cruise ship visits 2014

No information provided for 2014.

AIS based statistics (total calls: 77)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call

Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based on the following calculation. Multiplying this figure with a waste water production estimation in m³ sewage per person per day gives you the estimated total discharge need in m³/h. Days at sea (Days from previous port) / Persons (maximum capacity of ship) / Time (hours spent at port – 30 minutes)
Klaipeda (Lithuania)

60 cruise calls
http://www.portofklaipeda.lt/  UN LOCODE: LTKJL

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014

Port administration has contract with operator which collects sewages from ships by trucks and barges.
No special fee for the use of the facilities.

Klaipeda State Seaport has made a feasibility study for PRF of sewage collecting in 2014. Scope of the study covered adequacy of the PRF, demand for necessary investments and constructions.

Planned improvements
No information provided for 2014.

Before 2014
Klaipeda was listed as having adequate PRF for sewage in the 2010 HELCOM Roadmap for upgrading PRF for sewage in passenger ports of the Baltic Sea area.

2. Passenger traffic trends in Klaipeda

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

Cruise ships calls
Cruise ships passengers
International cruise and ferry passengers
3. Cruise ship visits in Klaipeda - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014

The figure shows discharges reported by cruise industry as part of the survey. The black bar shows the number of ships that did not use the sewage PRF for sewage even if available.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 60)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call

Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m$^3$ sewage per person per day gives you the estimated total discharge need in m$^3$·h$^{-1}$.

Days at sea (days from previous port) / Persons maximum capacity of ship

Time (hours spent at port – 30 minutes)
1. Sewage Port Reception Facilities 2014

Tank trucks are used. Two tank trucks max. quantity: 30m³ each. No direct discharge to sewer system available.

Sewage from passenger ships is charged at fixed rates per m³.

Planned improvements

No information provided for 2014.

Before 2014

Riga is one of the eight ports listed as first priority ports in the 2010 HELCOM Roadmap for upgrading PRF for sewage in passenger ports of the Baltic Sea area.

2. Passenger traffic trends in Riga

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.
3. Cruise ship visits in Riga - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014

The figure shows discharges reported by cruise industry as part of the survey. The black bar shows the number of ships that did not use the sewage PRF for sewage even if available.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 52)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call

Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based on the following calculation. Multiplying this figure with a waste water production estimation in m$^3$ sewage per person per day gives you the estimated total discharge need in m$^3$per day.$^1$

\[
\text{Days at sea (Days from previous port)} \times \text{Persons (maximum capacity of ship)} \times \frac{\text{Time (hours spent at port – 30 minutes)}}{1800}
\]

---

$^1$ Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based on the following calculation. Multiplying this figure with a waste water production estimation in m$^3$ sewage per person per day gives you the estimated total discharge need in m$^3$per day.
Gdynia (Poland)
50 cruise ships calls
http://www.port.gdynia.pl/ UN LOCODE: PLGDY

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014

Tank trucks are used for cruise ships. 3 tank trucks (4.5 m³, 5.2m³, 10m³), 1 vat (30m³), max. quantity – 40 m³.

Helskie II quay has a maximum capacity of 50m³/h. Swedish and Danish quays 2-4 have a maximum capacity of 20 m³/h. Bulgarian and Closing quays have a maximum capacity of 35 m³/h. The Romanian quay has a maximum capacity of 40 m³/h. Two inlets are adjusted for receiving sewage form ferry „Stena Vision“ (Stena Line).

One third of all delivered amount of sewage from ferries and cruise ships are received without additional fee. In connection with tonnage fee, the following limits of ship-generated waste to be collected without additional fees have been set for sewage delivery. Total sewage discharges from passenger ships in m³: 2012 – 3488; 2013 – 4007; 2013 – 4803.

Planned improvements

1. French Quay - for cruises - to be finished by 1st January 2017. The maximum capacity will be 200 m³/h.
2. Polish Quay - for the new ferry terminal - to be finished by 1st January 2017 (maximum capacity of 105 m³/h. Upgrading works on other quays will be done gradually, according to Port of Gdynia implementation schedule.

Before 2014

A preparatory study “Conception of sewage collecting in the Port of Gdynia” was completed in 2012.

Gdynia is one of the eight ports listed as first priority ports in the 2010 HELCOM Roadmap for upgrading PRF for sewage in passenger ports of the Baltic Sea area.

2. Passenger traffic trends in Gdynia

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

Cruise ships calls

Cruise ships passengers

International passengers
3. Cruise ship visits in Gdynia - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 50)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call
Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m³ sewage per person per day gives you the estimated total discharge need in m³/day. Days at sea (days from previous port) x Persons x Maximum capacity of ship / Time (hours spent at port - 30 minutes)
Visby (Sweden)
45 cruise calls
http://www.gotland.se/portofvisby UN LOCODE: SEVBY

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014
At all the main berths (4, 5, 6, 7), PRF facilities connected to the municipal sewage system are available with a capacity of ca 16-20 m³ per hour.

General waste fee of 0.40 SEK/GT, included in the vessel fee.

There is no statistics on all international passengers but regular ferry traffic to Oskarshamn and Nynäshamn carries around 1,500,000 passengers/year (they use berth 5 and 6, the cruise ships 4 and 7).

Planned improvements
No information provided for 2014.

Before 2014
Visby was listed as having adequate PRF for sewage in the 2010 HELCOM Roadmap for upgrading PRF for sewage in passenger ports of the Baltic Sea area.

2. Passenger traffic trends in Visby
A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

Cruise ships calls

<table>
<thead>
<tr>
<th>Year</th>
<th>2006</th>
<th>2007</th>
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Cruise ships passengers

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<th>2008</th>
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<th>2010</th>
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<td>62,000</td>
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<td>52,000</td>
<td>54,000</td>
<td>36,000</td>
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</table>

International cruise and ferry passengers

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<tr>
<th>Year</th>
<th>2006</th>
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<td>60,000</td>
</tr>
</tbody>
</table>
3. Cruise ship visits in Visby - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM –CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
“Several ships were at anchor when visiting Visby. None of them discharged sewage to the port. “

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 45)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area according to the cruising industry initiative “Cruise Baltic” (www.cruisebaltic.org). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call
Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

\[ \text{Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m}^3/\text{person per day gives you the estimated total discharge need in m}^3/\text{y}^-1. \]

\[ \text{Days at sea (days from previous port) x Persons (maximum capacity of ship) x Time (hours spent at port − 30 minutes)} \]
Gdansk (Poland)
38 cruise ships calls

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014

Currently, the reception of sewage from passenger ships is being conducted by the tank trucks. Passenger ships entering Port of Gdansk are allowed to discharge 1/3 of their sewage in accordance with the tonnage tariff. The rest of the sewage is charged at fixed rates that can be found on the port's website: http://www.portgdansk.pl/shipping/types-of-waste.

Planned improvements

1. The study for the future handling of sewage from passenger ships has been prepared. It is supplemented by the survey data from the ships that called at Port of Gdansk during spring/summer 2014. Based on the results of the above mentioned study, the decisions will be made concerning the extent to which port’s infrastructure will be developed so that new requirements of MARPOL Annex IV for handling of sewage are met.

2. There are currently two piers that are being adjusted in order to enable to accommodate the passenger ship’s. The adequate reception facilities are going to be arranged so that sewage discharge is possible if required. Both investments are being conducted within the TEN-T Programme. Construction should be ready by 2020.

3. By the time the construction of fixed PRFs is finished, Port of Gdansk considers, if necessary depending of the ships operator’s needs, provision of other mobile facilities like, barges that will supplement reception of sewage from passenger ships which is currently operated by the tank trucks.

Before 2014

No information provided for 2014.

2. Passenger traffic trends in Gdansk

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

Cruise ships calls

Cruise ships passengers

International cruise and ferry passengers
3. Cruise ship visits in Gdansk - 2014

Information received from industry

Based on information from 34 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM –CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 38)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area according to the cruising industry initiative “Cruise Baltic” (www.cruisebaltic.org). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call
Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

\[ \text{Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m}^3\text{sewage per person per day gives you the estimated total discharge need in m}^3\text{.} \]

\[ \text{Days at sea} \times \text{Days from previous port} \times \text{Person maximum capacity of ship} \times \text{Time (hour's spent at port – 30 minutes)} \]

---

1 Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m$^3$ sewage per person per day gives you the estimated total discharge need in m$^3$. Days at sea (Days from previous port) x Person maximum capacity of ship x Time (hour’s spent at port – 30 minutes)
Mariehamn (Finland)

19 cruise calls

http://www.mariehamn.gov.no

No information provided for 2014.

UN LOCODE: FIMHQ

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014

Sewage PRF facilities available and adequate with a pumping capacity of 30m³/h.

The use of the facilities is free.

Planned improvements

No information provided for 2014.

Before 2014

No information provided for 2014.

2. Passenger traffic trends in Mariehamn

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.
3. Cruise ship visits in Mariehamn - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
Cruise ships have so far not used Mariehamn sewage PRF facilities even if available according to port information reported to Nordic Council (Nordiska Rådet) in 2013.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 19)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call
3.3. Time spent at port per call

3.4. Maximum number of persons on board per call
Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

1 Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based on the following calculation: Multiplying this figure with a waste water production estimation in m³ sewage per person per day gives you the estimated total discharge need in m³ h⁻¹. Days at sea (Days from previous port) / Persons (maximum capacity of ship) × Time (hours spent at port – 30 minutes)
Rönne - Bornholm (Denmark)

18 cruise calls

http://www.roennehavn.dk/site/Frontsite/ UN LOCODE: DKRNN

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014

No information provided for 2014.

Planned improvements

No information provided for 2014.

Before 2014

No information provided for 2014.

2. Passenger traffic trends in Rönne - Bornholm

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

<table>
<thead>
<tr>
<th>Year</th>
<th>Cruise ships calls</th>
<th>Cruise ships passengers</th>
<th>International passengers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>34</td>
<td>14,311</td>
<td>1,409,000</td>
</tr>
<tr>
<td>2007</td>
<td>28</td>
<td>14,986</td>
<td>1,429,000</td>
</tr>
<tr>
<td>2008</td>
<td>29</td>
<td>17,254</td>
<td>1,389,000</td>
</tr>
<tr>
<td>2009</td>
<td>34</td>
<td>16,804</td>
<td>1,302,000</td>
</tr>
<tr>
<td>2010</td>
<td>31</td>
<td>22,904</td>
<td>1,379,000</td>
</tr>
<tr>
<td>2011</td>
<td>31</td>
<td>31,717</td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>36</td>
<td>32,085</td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td>24</td>
<td>31,717</td>
<td></td>
</tr>
</tbody>
</table>
3. Cruise ship visits in Rönne - Bornholm - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 18)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call
Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

\[ \text{Maximum discharge need} = \text{Days at sea} \times \text{Days from previous port} \times \text{Persons maximum capacity of ship} \]

\[ \text{Time spent at port} \times 30 \text{ minutes} \]

\[ \text{Estimated maximum discharge need (person x days) / time in port} \]

\[ \text{Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m}^3\text{sewage per person per day gives you the estimated total discharge need in m}^3\text{h} \]

1 Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m³ sewage per person per day gives you the estimated total discharge need in m³h⁻¹.
Lübeck, including Travemünde (Germany)

15 cruise calls
UN LOCODE: DELBC

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014

At the port of Lübeck sewage can be collected by tank trucks or barges (private operators) and discharged at the central sewage treatment plant. No direct discharge to sewer system.

The “no-special-fee” contains a part of 0.001 €/GT for waste water (black water). On presentation of a receipt for disposal of waste water, this fee is paid back by the Port Operator.

Planned improvements

A technical solution has been planned to connect the sewage PRF in port to the sewage treatment plant Kläranlage Priwall. If needed, additional basins to store sewage at Priwall could be built, but this storage could produce unpleasant odor for the nearby residential area.

The planned construction project has been estimated to cost between 1 and 2 million € for both Skandinavienkai and Ostpreussenkai and will take from 3 to 4 years.

Before 2014

No information provided for 2014.

2. Passenger traffic trends in Lübeck (incl. Travemünde)

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

Cruise ships calls

<table>
<thead>
<tr>
<th>Year</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
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<th>2014</th>
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<tr>
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<td>11</td>
<td>11</td>
<td>11</td>
<td>11</td>
<td>11</td>
<td>11</td>
</tr>
</tbody>
</table>

Cruise ships passengers

<table>
<thead>
<tr>
<th>Year</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>27 020</td>
<td>27 020</td>
<td>7 795</td>
<td>16 960</td>
<td>32 898</td>
<td>18 167</td>
<td>30 142</td>
<td>16 105</td>
<td>8477</td>
</tr>
</tbody>
</table>

International cruise and ferry passengers

<table>
<thead>
<tr>
<th>Year</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>397 763</td>
<td>411 586</td>
<td>0</td>
<td>100 000</td>
<td>200 000</td>
<td>300 000</td>
<td>400 000</td>
<td>500 000</td>
<td>0</td>
</tr>
</tbody>
</table>
3. Cruise ship visits in Lübeck (including Travemünde) - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
There is enough capacity, but little demand.

AIS based statistics (total calls: 15)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call
Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

\[
\text{Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m}^3\text{sewage per person per day gives you the estimated total discharge need in m}^3\text{h}^{-1}. \]

\[
\text{Days at sea (days from previous port)} \times \text{Persons (maximum capacity of ship)} \times \text{Time (hours spent at port - 30 minutes)} \]
Malmö (Sweden)
12 cruise ships
http://www.cmport.com/ UN LOCODE: SEMMA

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014
Tank trucks are available.
No special fee for discharging sewage to the facilities.

Planned improvements
No information provided for 2014.

Before 2014
No information provided for 2014.

2. Passenger traffic trends in Malmö
A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.
3. Cruise ship visits in Malmö - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 12)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call
Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need \(^1\)

\(^1\) Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based on the following calculation. Multiplying this figure with a waste water production estimation in m\(^3\) sewage per person per day gives you the estimated total discharge need in m\(^3\)h\(^{-1}\).
Wismar (Germany)
11 cruise calls
http://www.hafen-wismar.de/ UN LOCODE: DEWIS

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014
No information provided for 2014.

Planned improvements
No information provided for 2014.

Before 2014
No information provided for 2014.

2. Passenger traffic trends in Wismar
A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

Cruise ships calls  Cruise ships passengers  International cruise and ferry passengers

No information provided for 2014.  No information provided for 2014.  No information provided for 2014.
3. Cruise ship visits in Wismar - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 11)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call

Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need ¹

Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m³ sewage per person per day gives you the estimated total discharge need in m³·h⁻¹.

Days at sea from previous port x (Person maximum capacity of ship) x Time (hours spent at port - 30 minutes)
Aarhus (Denmark)

11 cruise calls

http://www.aarhushaven.dk/ UN LOCODE: DKAAR

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014

No information provided for 2014.

Planned improvements

No information provided for 2014.

Before 2014

No information provided for 2014.

2. Passenger traffic trends in Aarhus

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

<table>
<thead>
<tr>
<th>Cruise ships calls</th>
<th>Cruise ships passengers</th>
<th>International cruise and ferry passengers</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information provided for 2014.</td>
<td>No information provided for 2014.</td>
<td>No information provided for 2014.</td>
</tr>
</tbody>
</table>
3. Cruise ship visits in Aarhus - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 11)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call
Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need 1

1 Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m³ sewage per person per day gives you the estimated total discharge need in m³·h⁻¹. Days at sea (Days from previous port) / Persons (maximum capacity of ship) / Time (hours spent at port - 30 minutes)
Saaremaa (Estonia)

7 cruise calls

http://www.portoftallinn.com/saaremaa-harbour
UN LOCODE: EESMA

A port on the North side of Saaremaa island (Küdema Bay). Operated by the Tallinn port authority.

1. Sewage Port Reception Facilities 2014

Tank trucks. No direct discharge to sewer system.

Waste fee charged on every ship with some exceptions. Sewage exceeding 7m³ subject to extra payment

Planned improvements

No information provided for 2014.

Before 2014

No information provided for 2014.

2. Passenger traffic trends in Saaremaa

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

Cruise ships calls

Cruise ships passengers

International cruise and ferry passengers
3. Cruise ship visits in Saaremaa - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014

No information provided for 2014.

Comments from cruise ships on port facilities 2014

“When the tank truck was not available, the ship had the authorization to off-load the sewage on the next day during the port of call in Tallinn with no extra cost. No ship delivered sewage to the port of Saaremaa.”

Comments from ports on cruise ship visits 2014

No information provided for 2014.

AIS based statistics (total calls: 7)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call

Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m$^3$ sewage per person per day gives you the estimated total discharge need in m$^3$ h$^{-1}$.

\[
\text{Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port.}
\]

\[
\text{Maximum capacity of persons onboard including passengers and crew}
\]

\[
\text{Estimated theoretical max. discharge need}\]

\[
\text{Estimated theoretical max. discharge need (person x days / time in port - 30 minutes)}
\]
Sassnitz (Germany)

5 cruise calls

http://www.fahrrfahren-sassnitz.de/en/  UN LOCODE: DESAS

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014

No information provided for 2014.

Planned improvements

No information provided for 2014.

Before 2014

No information provided for 2014.

2. Passenger traffic trends in Sassnitz

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

<table>
<thead>
<tr>
<th>Year</th>
<th>Cruise ships calls</th>
<th>Cruise ships passengers</th>
<th>International cruise and ferry passengers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>3</td>
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<td>555712</td>
</tr>
<tr>
<td>2007</td>
<td>3</td>
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<td>544709</td>
</tr>
<tr>
<td>2008</td>
<td>3</td>
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<td>900000</td>
</tr>
<tr>
<td>2013</td>
<td>3</td>
<td>40000</td>
<td>1200000</td>
</tr>
</tbody>
</table>
3. Cruise ship visits in Sassnitz - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM –CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 5)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call
Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

1 Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based on the following calculation. Multiplying this figure with a waste water production estimation in m³ sewage per person per day gives you the estimated total discharge need in m³·h⁻¹. Days at sea (Days from previous port) x Person maximum capacity of ship / Time (hours spent at port - 30 minutes)
Kalundborg (Denmark)

5 cruise calls
UN LOCODE: DKKAL

http://www.cruisekalundborg.dk/

1. Sewage Port Reception Facilities 2014
No information provided for 2014.

Planned improvements
No information provided for 2014.

Before 2014
No information provided for 2014.

2. Passenger traffic trends in Kalundborg

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

<table>
<thead>
<tr>
<th>Cruise ships calls</th>
<th>Cruise ships passengers</th>
<th>International cruise and ferry passengers</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information provided for 2014.</td>
<td>No information provided for 2014.</td>
<td>No information provided for 2014.</td>
</tr>
</tbody>
</table>
3. Cruise ship visits in Kalundborg - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM –CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics  (total calls: 5)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call
Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need ¹

¹ Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m³ sewage per person per day gives you the estimated total discharge need in m³·h⁻¹. Days at sea (days from previous port) / Persons (maximum capacity of ship) / Time (hours spent at port – 30 minutes)
Kaliningrad (Russia)

5 cruise ships calls
UN LOCODE: RUKGD

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014

No information provided for 2014.

Planned improvements
No information provided for 2014.

Before 2014
No information provided for 2014.

2. Passenger traffic trends in Kaliningrad

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

<table>
<thead>
<tr>
<th>Cruise ships calls</th>
<th>Cruise ships passengers</th>
<th>International passengers</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information provided for 2014.</td>
<td>No information provided for 2014.</td>
<td>No information provided for 2014.</td>
</tr>
</tbody>
</table>
3. Cruise ship visits in Kaliningrad - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 5)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call
Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

\[ \text{Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port.} \]

The presented figures are based on the following calculation. Multiplying this figure with a waste water production estimation in $\text{m}^3$ sewage per person per day gives you the estimated total discharge need in $\text{m}^3\text{yr}^{-1}$.

\[ \text{Estimated theoretical max. discharge need} = \left( \frac{\text{Days at sea (days from previous port) x Persons x maximum capacity of ship}}{\text{Time (hours spent at port – 30 minutes)}} \right) \]
Szczecin, including Świnoujście (Poland)

3 cruise calls

1. Sewage Port Reception Facilities 2014

Uptake of sewage from cruise ships is currently carried by the tank trucks which transport sewage to municipal WWTP (3 trucks of capacity 3 x 6 m³).

Planned improvements

Szczecin and Świnoujście Seaports Authority prepared the scheme for the construction of the PRF for sewage at the Ferry Terminal in Świnoujście.

For the implementation of this project the SSSA intends to apply for EU funding from the Cohesion Fund under the Operational Programme Infrastructure and Environment in the financial perspective 2014 - 2020.

The construction works for PRF are planned to commence in January 2018 and will be completed in February 2020.

Before starting the operation of the fixed prf installation in the Port of Świnoujście, the collection of the sewage from ferries will be ensured by the specialized barge or/and tank trucks depending of the ships operators needs.

Before 2014

Świnoujście was listed as first priority port in the 2010 Helcom Roadmap for upgrading PRF for sewage in passenger port of Baltic Sea Area.

2. Passenger traffic trends in Szczecin, including Świnoujście

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

Cruise ships calls

Cruise ships passengers

International cruise and ferry passengers
3. Cruise ship visits in Szczecin, including Świnoujście - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
In 2014 cruise ship has visited port of Szczecin only three times. The cruise ships have not delivered any sewage at the port.

Comments from ports on cruise ship visits 2014
Cruise ship visit only the Port of Szczecin. In Port of Świnoujście only ferries are operated.

AIS based statistics (total calls: 3)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call
Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

\[ \text{Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m}^3\text{sewage per person per day gives you the estimated total discharge need in m}^3\text{h}. \]

\[ \text{Days at sea (days from previous port)} \times \text{Person\_maximum\_capacity\_of\_ship} \times \text{Time (hours spent at port – 30 minutes)} \]

---

1 Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m$^3$ sewage per person per day gives you the estimated total discharge need in m$^3$h.
Helsingborg (Sweden)
3 cruise ships calls
http://www.port.helsingborg.se/ UN LOCODE: SEHEL

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014
Tank trucks are available for cruise ships.
Ferry companies arrange for their PRF for sewage at their own pier, which is a direct connection to municipal waste-water treatment plant.
The discharge of sewage to the port is free.
Mostly ferry traffic. A few cruise ships per year, most of them anchor in the roads.

Planned improvements
No information provided for 2014.

Before 2014
No information provided for 2014.

2. Passenger traffic trends in Helsingborg
A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

Cruise ships calls
Cruise ships passengers
International cruise and ferry passengers
3. Cruise ship visits in Helsingborg - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 3)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call

3.5. Estimated theoretical max. discharge need

Maximum capacity of persons onboard including passengers and crew

\[ \text{Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m}^3\text{sewage per person per day gives you the estimated total discharge need in m}^3\text{h}^{-1}. \]

\[ \text{Days at sea (days from previous port)} \times \text{Persons (maximum capacity of ship)} \times \text{Time (hours spent at port - 30 minutes)} \]
Flensburg (Germany)

3 cruise ships calls
UN LOCODE: DEFL

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014

No information provided for 2014.

Planned improvements
No information provided for 2014.

Before 2014
No information provided for 2014.

2. Passenger traffic trends in Flensburg

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

Cruise ships calls          Cruise ships passengers          International passengers

No information provided for 2014.          No information provided for 2014.          No information provided for 2014.
3. Cruise ship visits in Flensburg - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM –CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 3)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call

3.3. Time spent at port per call

3.4. Maximum number of persons on board per call
Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

\[ \text{Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m}^3\text{sewage per person per day gives you the estimated total discharge need in m}^3\text{h}^{-1}. \]

\[ \text{(Days at sea (Days from previous port) x Person maximum capacity of ship) } \times \text{Time (hour's spent at port - 30 minutes)} \]
Ventspils (Latvia)

2 cruise calls

http://www.portofventspils.lv/ UN LOCODE: LVVNT

1. Sewage Port Reception Facilities 2014

2 barges with a maximum discharge rate of 20 m³/h (for each), maximum quantity of sewage that can be delivered by a ship – 86 m³ (for each). No direct sewage discharge connection available.

Sewage from ships is delivered and treated in Ventspils municipality wastewater treatment plant.

Planned improvements

No information provided for 2014.

Before 2014

Tank trucks are used. One tank 30m³. Barge are used. One tank 86m³. Capacity 20m³/h. From trucks and barges sewage are discharged to municipal treatment facilities.

2. Passenger traffic trends in Ventspils

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.
3. Cruise ship visits in Ventspils - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 2)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

3.2. Time at sea from previous port per call
3.3. Time spent at port per call

3.4. Maximum number of persons on board per call
Maximum capacity of persons onboard including passengers and crew

3.5. Estimated theoretical max. discharge need

\[
\text{Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m}^3\text{sewage per person per day gives you the estimated total discharge need in m}^3\text{h}^{-1}. \\
\text{Days at sea (days from previous port)} \times \text{Persons (maximum capacity of ship)} \times \text{Time (hours spent at port – 30 minutes)}
\]

\[1\]
Stralsund (Germany)

1 cruise visit
http://www.seehafen-stralsund.de/ UN LOCODE: DEStL

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014
No information provided for 2014.

Planned improvements
No information provided for 2014.

Before 2014
No information provided for 2014.

2. Passenger traffic trends in Stralsund
A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

<table>
<thead>
<tr>
<th>Cruise ships calls</th>
<th>Cruise ships passengers</th>
<th>International cruise and ferry passengers</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information provided for 2014.</td>
<td>No information provided for 2014.</td>
<td>No information provided for 2014.</td>
</tr>
</tbody>
</table>
3. Cruise ship visits in Stralsund - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 1)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

| Time at sea from previous port | 10 |
| Time spent at port during the call | 10 |
| Maximum number of persons onboard | 372 |
| Estimated theoretical maximum discharge need\(^1\) | 20.2 |

\(^1\) Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m\(^3\) sewage per person per day gives you the estimated total discharge need in m\(^3\) h\(^-1\) Days at sea: (days from previous port/maximum capacity of ship) Time (hours spent at port − 30 minutes)
Kemi (Finland)

1 cruise visit


Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014
   No information provided for 2014.

Planned improvements
   No information provided for 2014.

Before 2014
   No information provided for 2014.

2. Passenger traffic trends in Kemi
   A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

<table>
<thead>
<tr>
<th>Cruise ships calls</th>
<th>Cruise ships passengers</th>
<th>International passengers</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="chart1.png" alt="Chart" /></td>
<td><img src="chart2.png" alt="Chart" /></td>
<td><img src="chart3.png" alt="Chart" /></td>
</tr>
</tbody>
</table>
3. Cruise ship visits in Kemi - 2014

Information received from industry
Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM –CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 1)
Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

- Time at sea from previous port: 7 hours
- Time spent at port during the call: 11 hours
- Maximum number of persons onboard: 916 persons
- Estimated theoretical maximum discharge need\(^1\): 24.3

\(^1\) Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m\(^3\) sewage per person per day gives you the estimated total discharge need in m\(^3\)h\(^{-1}\).
Karlskrona (Sweden)

1 cruise visit
http://www.karlskrona.se/  UN LOCODE: SEKAA

Birth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014
No information provided for 2014.

Planned improvements
No information provided for 2014.

Before 2014
No information provided for 2014.

2. Passenger traffic trends in Karlskrona
A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

Cruise ships calls

Cruise ships passengers

International passengers
3. Cruise ship visits in Karlskroa - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM–CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 1)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex I). The dataset covers the whole cruising season (April to October 2014).

<table>
<thead>
<tr>
<th>Time at sea from previous port</th>
<th>14 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time spent at port during the call</td>
<td>9 hours</td>
</tr>
<tr>
<td>Maximum number of persons onboard</td>
<td>372 persons</td>
</tr>
<tr>
<td>Estimated theoretical maximum discharge need¹</td>
<td>24.1</td>
</tr>
</tbody>
</table>

¹ Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based on the following calculation: Multiplying this figure with a waste water production estimation in m³ sewage per person per day gives you the estimated total discharge need in m³/day. Days at sea (days from previous port) × Persons (maximum capacity of ship) ÷ Time (hours spent at port – 30 minutes)
Helsingör (Denmark)

1 cruise ships calls

UN LOCODE: DKHLS

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014

No information provided for 2014.

Planned improvements

No information provided for 2014.

Before 2014

Helsingör is one of the eight ports listed as first priority ports in the 2010 HELCOM Roadmap for upgrading PRF for sewage in passenger ports of the Baltic Sea area.

No information provided for 2014.

2. Passenger traffic trends in Helsingör

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

<table>
<thead>
<tr>
<th>Cruise ships calls</th>
<th>Cruise ships passengers</th>
<th>International passengers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

...
3. Cruise ship visits in Helsingör - 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM –CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 1)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Time at sea from previous port</td>
<td>43 hours</td>
</tr>
<tr>
<td>Time spent at port during the call</td>
<td>7 hours</td>
</tr>
<tr>
<td>Maximum number of persons onboard</td>
<td>510 persons</td>
</tr>
<tr>
<td>Estimated theoretical maximum discharge need(^1)</td>
<td>130.5</td>
</tr>
</tbody>
</table>

\(^1\) Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based on the following calculation. Multiplying this figure with a waste water production estimation in m\(^3\) sewage per person per day gives you the estimated total discharge need in m\(^3\) h\(^{-1}\).
Luleå (Sweden)

1 cruise call
UN LOCODE: SELL

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014

No information provided for 2014.

Planned improvements

No information provided for 2014.
Before 2014

No information provided for 2014.

2. Passenger traffic trends in Luleå

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

<table>
<thead>
<tr>
<th>Cruise ships calls</th>
<th>Cruise ships passengers</th>
<th>International passengers</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information provided for 2014.</td>
<td>No information provided for 2014.</td>
<td>No information provided for 2014.</td>
</tr>
</tbody>
</table>
3. Cruise ship visits in Luleå - 2014

Information received from industry

Based on information from 34 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 1)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area according to the cruising industry initiative “Cruise Baltic” (www.cruisebaltic.org). The dataset covers the whole cruising season (April to October 2014).

<table>
<thead>
<tr>
<th>Time at sea from previous port</th>
<th>24 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time spent at port during the call</td>
<td>12 hours</td>
</tr>
<tr>
<td>Maximum number of persons onboard</td>
<td>916 persons</td>
</tr>
<tr>
<td>Estimated theoretical maximum discharge need</td>
<td>76.3</td>
</tr>
</tbody>
</table>

1 Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based on the following calculation. Multiplying this figure with a waste water production estimation in m³ sewage per person per day gives you the estimated total discharge need in m³/Day. 

\[
\text{Estimated total discharge need} = \frac{\text{Days at sea}}{\text{Days from previous port}} \times \frac{\text{Persons maximum capacity of ship}}{\text{Time spent at port}} \times \text{Estimated water production per person per day}
\]
Fredericia (Denmark)

1 cruise ship call

UN LOCODE: DKFRC

Berth used by cruise ships according to AIS data during April - October 2014

1. Sewage Port Reception Facilities 2014

No information provided for 2014.

Planned improvements

No information provided for 2014.

Before 2014

No information provided for 2014.

2. Passenger traffic trends in Fredericia

A compilation based on statistics from the Baltic Sea coastal countries national administrations, regional ports organizations (BPO, ESPO), the publication “Baltic Port List” and the Nordic Council of Ministers.

<table>
<thead>
<tr>
<th>Cruise ships calls</th>
<th>Cruise ships passengers</th>
<th>International passengers</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information provided for 2014.</td>
<td>No information provided for 2014.</td>
<td>No information provided for 2014.</td>
</tr>
</tbody>
</table>
3. Cruise ship visits in Fredericia- 2014

Information received from industry

Based on information from 29 CLIA-affiliated cruise ships, received by HELCOM Secretariat as a reply to a joint HELCOM – CLIA survey. The dataset covers the whole cruising season (April to October 2014).

3.1. Sewage discharges 2014
No information provided for 2014.

Comments from cruise ships on port facilities 2014
No information provided for 2014.

Comments from ports on cruise ship visits 2014
No information provided for 2014.

AIS based statistics (total calls: 1)

Generated from AIS data from the regional HELCOM AIS network covering the whole Baltic Sea area. The AIS data used includes all cruise ships operating in the Baltic Sea area (annex 1). The dataset covers the whole cruising season (April to October 2014).

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Time at sea from previous port</td>
<td>10 hours</td>
</tr>
<tr>
<td>Time spent at port during the call</td>
<td>10 hours</td>
</tr>
<tr>
<td>Maximum number of persons onboard</td>
<td>2796 persons</td>
</tr>
<tr>
<td>Estimated theoretical maximum discharge need</td>
<td>116.5</td>
</tr>
</tbody>
</table>

1 Estimated total discharge capacity needs of cruise ship calls during summer 2014, assuming all wastewater generated after leaving last port of call will be discharged in the port. The presented figures are based the following calculation. Multiplying this figure with a waste water production estimation in m³ sewage per person per day gives you the estimated total discharge need in m³·h⁻¹. Days at sea (days from previous port)/Person maximum capacity of ship/Time (hours spent at port – 30 minutes)
# Annex 1 - Cruise ships operating in the Baltic Sea

April to October 2014 – Listed in alphabetic order of the operator

<table>
<thead>
<tr>
<th>Name of ship</th>
<th>Year</th>
<th>Operator</th>
<th>Flag</th>
<th>Tonnage (GT)</th>
<th>IMO</th>
<th>MMSI</th>
<th>Total persons onboard*</th>
<th>Passengers†</th>
<th>Crew†</th>
<th>Total persons onboard†</th>
<th>Maximum theoretical persons onboard</th>
<th>Days spent at sea between ports in the Baltic Sea</th>
<th>Days spent in Baltic Sea ports</th>
<th>Total time spent in the Baltic Sea #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aida bella®</td>
<td>2008</td>
<td>Aida cruises</td>
<td>Italy</td>
<td>69203</td>
<td>9363542</td>
<td>247229700</td>
<td>3146</td>
<td>No info for 2014</td>
<td>2689</td>
<td>3146</td>
<td>61.9</td>
<td>45.1</td>
<td>107.1</td>
<td></td>
</tr>
<tr>
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† Different sources
‡ Average survey 2014
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* CF: Conventional Ferry  
FF: Fast Ferry  
P: Passenger Ferry  
RP: RoPax  
F: Freight Ferry with limited cabins  
C: Camping Ferry
# Annex 3 - List of ports with LOCODE, number of calls

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