



EXPLICATION:

Welcome aboard our ship to make a harbour cruise along Hook of Holland to the current Europoort area and a section of the new Maasvlakte 2.

INTRODUCTION

The port of Rotterdam is one of the most important and certainly the largest in Europe. The port is the gateway to the European market with over 350 million users. Each year a turn over of 450 million tons is reached.

1. HOOGHEEM RAADSCHAP VAN DELFLAND

This is a pumping station providing clean, safe and adequate water to which Hook of Holland and Keringhuis belong.

NEW WATERWAY

We are now sailing on the New Waterway. This ranges from about Vlaardingen up to Hook of Holland and is 20.5 km long. 480 to 675 meters wide and 15 meters deep. The Waterway was dug in 1873 and developed by the engineer Pieter Caland. Even then there capacity problems. Currently the estuary is about 25 meters deep.

2. DSM - RESINS

On the right (starboard in shipping terms) you will see the company DSM Resins. Here are two factories and a pilot plant located. DSM is one of the world leaders in industrial coatings, protective coatings for homes, automobiles, planes and boats. It employs about 150 people.

3. HOOK OF HOLLAND

On your right you will see the Hook of Holland. This famous resort with a beach of 250 meters wide and 3.5 km long has a population of about 10.000 people. From the Queen Emma Boulevard and the pier you have a dynamic view of the New Waterway. Each year approximately 70.000 seagoing vessels, in and out bound, and tens of thousands of pleasure craft pass through. The pier has a length of 1963 meters. And the concrete block dam is 2677 meters in length. Hook of Holland came into being during the excavation of the New Waterway. It has existed for 150 years and for the last 100 years has been a part of the municipality of Rotterdam.

4. STENA LINE

We now arrive at the Stena Line. The Stena Hollandica and Stena Britannica berth here at the away or are on their way to England. Stena Line has a modern fleet of 37 vessels and 22 ferry routes to England, Ireland, Latvia and Scandinavia. From the Hook of Holland, twice a day, a ship sails to Harwich, this route is sailed by the Hollandica or Britannica. Both vessels are 240 meters long and have a capacity of 230 cars and freight and 1.200 passengers.

BERGHAVEN

You can also see the Berghaven. This harbour was excavated in around 1883, mainly for ships pilots and Rijkswaterstraat. There are also the lifeboats of the K.N.M.R. which are employed for rescue at sea. Today it is also the starting point of the water taxi to the 2nd Maasvlakte.



5. BREEDIEP

We now sail through the Bree Diep. This passage was 80 meters wide and is now being expanded to more than 200 meters. On your left (port) you can see the peninsula of Rozenburg. This is a new recreational area of approximately 54 hectares you will find many nesting birds and also herds of Highland cattle.

CURRENT EUROPOORT

The current Europort is an industrial and port area south of the New Waterway. It was built between 1958 and 1964 and is 3.600 hectares. Europort falls under the municipality of Rotterdam.

NILEHAVEN

We now come through the Calandkanaal into the Beerkanaal. Right next to us is the Nile Haven. This was excavated in 2011 and is 13.5 meters deep. The name of the smaller Beerkanaal was later changed to the Nile Haven. At low tide you can spot seals on the beaches.

6. GATE TERMINAL

This is a terminal for liquefied natural gas. The liquid gas is brought here by ship stored and transported, by pipelines. There is less demand for natural gas so it is very useful to have liquefied gas vessels. The tanks in which the gas is stored are 40 meters high and have a diameter of about 86 meters.

7. MAASVLAKTE OIL TERMINAL (MOT)

We now sail along the 8th petroleum port. This is the Maasvlakte oil terminal. Popularly known as M.O.T. This is one of the world's largest oil terminals. There will be super tankers capable of transporting 400.000 tons of oil and having a deep draught of 22 meters. One third of the delivered oil is processed here. The 39 tanks at the terminal have a diameter of 85 meters and are 22 meters high, and have a capacity of 125.000 tons. The company has been there since 1974.

YANGTZEHAVEN

The Yangtzehaven was built has a waiting area for ships that could not berth at the quay straight away. In November 2012 contractor Puma made a planned dyke breach so that the Yangtzehaven was connected to the new ports such as Princess Alexiahaven, Princess Arianne port and the Princess Amalia Haven. It is now known as the Yangtze channel. The channel is 600 meters wide and 20 meters deep.

8. EUROMAX TERMINAL ROTTERDAM

Here the very largest container ships can load and unload. Almost everything is automatic here. If you look closely you can see numbered cars, they move the containers unmanned. The containers are then transported by trucks, freight trains and barges. About 20.000 trucks are handled weekly by Euromax.



9. MAASVLAKTE 2

After decades of growth the existing port reached its limits and expansion was necessary. Each year an average of 35.000 vessels and 135.000 barges come to the Port of Rotterdam. Because of the size of the Maasvlakte 2 groundbreaking possibilities in the field of sustainable development became available.

- Examples:
- sustainable design
Because of the sleek rounded shape the North Sea. The compact form also takes up less space which reduces the loss of nature and also less sand was needed.
 - sustainable construction
A sand extraction site was chosen near the coast which saved energy. Also, a large amount of the sand was re-used from shallow harbour basins.
 - sustainable exploitation
Companies make maximum use of each others surplus heat and waste. Also companies are required to carry less cargo by truck and increased use of rail and inland shipping.

The construction of the Maasvlakte 2 Port has increased the size of the port by approximately 20 percent. Maasvlakte 2 is similar in size to Schiphol airport. The construction of Maasvlakte 2 began in 2008. The total land reclamation is 2000 hectares, approximately 1000 hectares accommodate premises. The work will be completed in 2030 and furthermore there will be a new recreation area for visitors. Outside industry : The entire project is currently getting a lot of national and international attention.

Pioneering Spirit – Pieter Schelte

Pioneering Spirit is the name of the largest ship in the world. It was built in South Korea in 2010 at the cost of 454.5 million euro's at the request of the Dutch offshore company All seas. It is capable of lifting at sea, an entire oil rig. With a length of 382 meters and a width of 124 meters this ship is the largest in the world. With these dimensions it is as large as eight football fields.

10. RWG (Rotterdam World Gateway)

Containers are also unloaded here from around the world and transported to consumers and industries in Europe. The big grey cranes come from China and were delivered here after a voyage of about two months. They are 127 meters high and are remotely controlled. They have a range of up to 24 rows of containers.

PRINSES ARANIA HAVEN EN FUTURELAND

We now sail through the Princess Ariana harbour, in the distance you can see the Princess Alexiahaven, Princess Amalia harbour and Princess Margriet port. Here is het information centre Maasvlakte 2 " Futureland " located.



11. APMT

APM Terminals are also container terminals. APM operates in 68 countries and employs over 20.000 people worldwide. Here millions of containers can be unloaded. Containers go from here onto trucks, trains and smaller vessels. A large number of the containers go to the European continent such as the Netherlands and Germany, but also to the United Kingdom, Scandinavia and the Baltic States (Estonia, Latvia and Lithuania.)

12. E.ON

This is the site of E.ON coal fired power plants. These are special plants, because the number of hours per year that they can produce electricity is very high. The plant biomass is also used. The biomass is better for the environment than coal.

13. LYONDELL BAYER

This factory employs about 140 permanent personnel. They mostly work shifts in production or in the laboratory. This is necessary because the factory runs day and night. The factory makes chemicals that are the building blocks of other commodities. For example, clothing, household goods, building materials and products for daily use such as car seats, dashboards mattresses, cosmetics and coolants.

14. NESTE OIL

Approximately 150 people are employed here. The company makes renewable diesel of the cleanest and highest quality. Renewable means that it is made of materials such as vegetable oil. With the diesel they produce here in a year, more than half a million vehicles can run day and night.

15. IOI LODER CROKLAAN

Here they prepare palm oil. That is oil that comes from the fruit of palm trees in Malaysia. The special oil they make from it is used all over the world, in candy, ice cream cones and pizza crusts.

16. RHENUS LOGISTICS DEEPEA TERMINAL

All kinds of goods are moved and stored temporarily. Not all containers can automatically be moved from the container ship to the truck. Special goods must sometimes be specially handled.

EUROPA HAVEN EN ECT

On the right you can see the Europe harbour and the ECT (Europe Container Terminals). The Europe harbour is an off shoot of the Beerkanaal. Here the APM terminal of the Maersk Group is established. The Maersk Triple-E is the largest container ship in the world, with a length of 400 meters and it can be loaded and unloaded here. You will also see the ECT. ECT is the founder of the container throughput in Rotterdam and Europe. It employs some 2.300 people, of which the majority are on shift work. The company was founded in 1966.



17. ENECOGEN

Back in the Beerkanaal on your right you will see Enocogen. This company is a joint venture with the Dutch energy company Eneco and the Danish Dong Energy. Jet company is one of the cleanest and most efficient energy companies of Europe. This gas stoked plant was officially opened in January 2012.

18. INDORAMA

You will see the Tennessee port, this port was excavated in 1996 and became operational in 1997. The name was derived from the V.S. stat of Tennessee where the headquarters of Eastman chemical company is established, the current Indorama.

CALAND KANAAL

We are back on the Caland Canal. This channel provides access to the Europoort area and runs from here to Rozenburg and had been in use since 1971.

19. EECV

You can now see the Ore Transhipment company Europoort (E.E.C.V). This is one of the largest and most modern storage companies of iron ore and coal in Europe. At this location of approximately 82 hectares, 30 million tonnes of iron ore and coal are stored. Much of this bulk is transported to German customers in the Ruhr area in specially built barges. The ship “ Berge Stahl “ one of the largest bulk carriers in the world comes here regularly. This ship is on regular service between Ponte de Madeira in Brazil and Rotterdam. Annually the ship sails 10 times back and forth. A round trip takes approximately 5 weeks. This bulk carrier is 343 meters long and 63.5 meters wide and has a draft of 22.5 meters. The ship has a deadweight of 365.000 tons and has been in operation since 1986.

20. EBS

European Bulk Services (EBS) is a dry bulk stevedore in the port of Rotterdam and is principally engaged in the loading, unloading, storage and transhipment of dry bulk goods such as coal, minerals, biomass and agri products. EBS consists of two terminals and a fleet of floating cranes and treats annually about 16 million tons of products. The terminals are strategically located in the port of Rotterdam, namely Europoort and Botlek. Through an extensive road network and water and rail links cargo can be accessed to the whole of western and central Europe. EBS currently employs about 170 people.

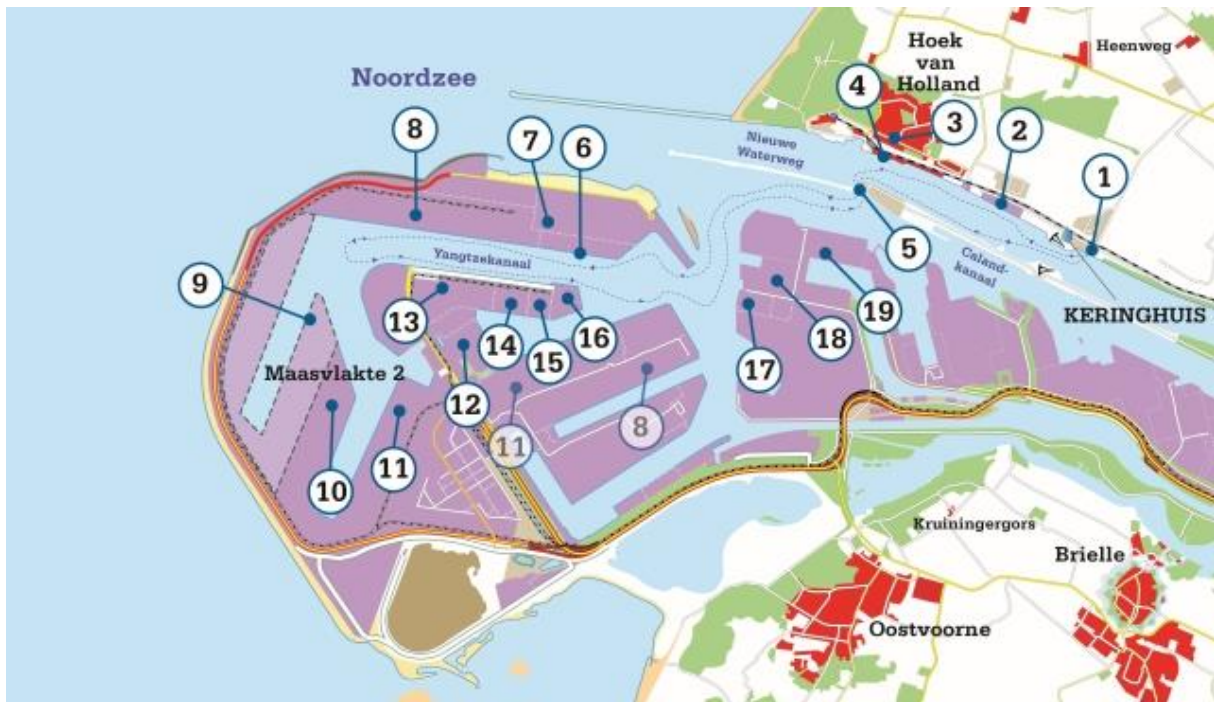
FLOOD DEFENCE.

Back to the New Waterway and you can see the Maeslantkering. The impressive final piece of the Delta Works. More information about the Delta Works and the eternal battle of South Holland with the sea you can find in the Keringhuis near the mooring location.



THANK YOU FOR YOUR VISIT !

On behalf of the captain and crew of the “Ameland “ we wish you a safe onward journey!



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