

Uniform Standards/Databases for Sharing Port Information

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Greater Houston Port Bureau

- Founded in 1936 to provide information on the Port of Houston
- Marine Exchange of Texas
- 200+ Member 501(c)6
- Administers 280+ facility Houston Ship Channel Security District
- Led by Board of Industry Directors
 - Dredging Committee
 - Traffic Committee

GHPB Port Information

- Detailed Port Data
 - Operating Entities
 - Voyage Information
 - Contact Information
- Channel/Harbor Restrictions
- Facility Information

Port of Houston9

ExxonMobil Baytown Berth 1 & 2

| Vessel size | Draft | Arrival | Departure | Notes |
|-------------|-------|---------|-----------|--------------------------|
| <500' | <30' | SS | SS | |
| <500' | >30' | MS | MS | * no thruster substitute |
| 501'-650' | <30' | LM | MS | * no thruster substitute |
| 501'-650' | >30' | LL | LM | * no thruster substitute |
| >650' | <30' | LL | LM | * no thruster substitute |
| >650' | >30' | LL | LL | * no thruster substitute |

ExxonMobil Baytown Berth 3,4,5,6

| Vessel size | Draft |
|-------------|-------|
| <500' | <30' |
| <500' | >30' |
| 501'-650' | <30' |
| 501'-650' | >30' |
| >650' | <30' |
| >650' | >30' |

Port of Houston2

Port Details:

- The entrance to the Port of Houston is located at the mouth of Galveston Bay, which begins the 52 mile long Houston Ship Channel
- The main channel is 530' wide, not accounting for 215' of "setbacks" on either side of the channel

Channel Depths for Houston

- 45 feet/13.72 meters up to Shell Oilbanking
- 40 feet/12.19 meters up to S.P. Slip
- 36 feet/10.97 meters to the Turning Basin
- 40 feet/12.19 meters Barbours Cut Channel
- 40 feet/12.19 meters Bayport Channel

The channel has a soft mud bottom that needs continual dredging upkeep

Boston

| Vessel size | Draft |
|-------------|-------|
| <440' | Ary |
| <500' | <30' |
| <500' | >30' |
| <550' | <30' |
| 501'-650' | <30' |
| 501'-650' | >30' |
| >650' | <30' |
| >650' | >30' |
| Wide body | <34' |
| Wide body | >34' |
| Wide body | >42' |

Port of Los Angeles

| Facility Name & Operator | Berths | Maximum Ship Size | Channel Limitations | Time from Pilot Boarding at Sea Ready to Terminal | Shipping Lines | Cranes |
|--|---|--|--|---|--|---------------------------------------|
| 1. China Shipping Terminal (West Basin) Berths 100-109 | 2 Berths 250' total Berth Length 53' Deep | Cannos to accommodate 10000 TEU vessels, may experience issues navigating to West Basin due to congestion. | 450' of usable channel access to Concord Pier/terminal | Est. 2 Hours Pilot Time | CMA CGM, Yang Ming, Mitsui, Arab Shipping, CMA/CGM | 8 Super post-Panamax Cranes 18000 TEU |
| 2 Berths (East Basin) | Can accommodate at least 8000 TEU vessels | *Ships must cross under the Vincent Thomas Bridge | Barrow channel with no Yang Ming route in the West Basin at berth 147-148 at 400' of | Est. 1 Hours Pilot Time | Yang Ming, China Shipping, K-Line, Cosco, Hapag, Zim | 5 Post-Panamax Cranes 14,000 TEU |

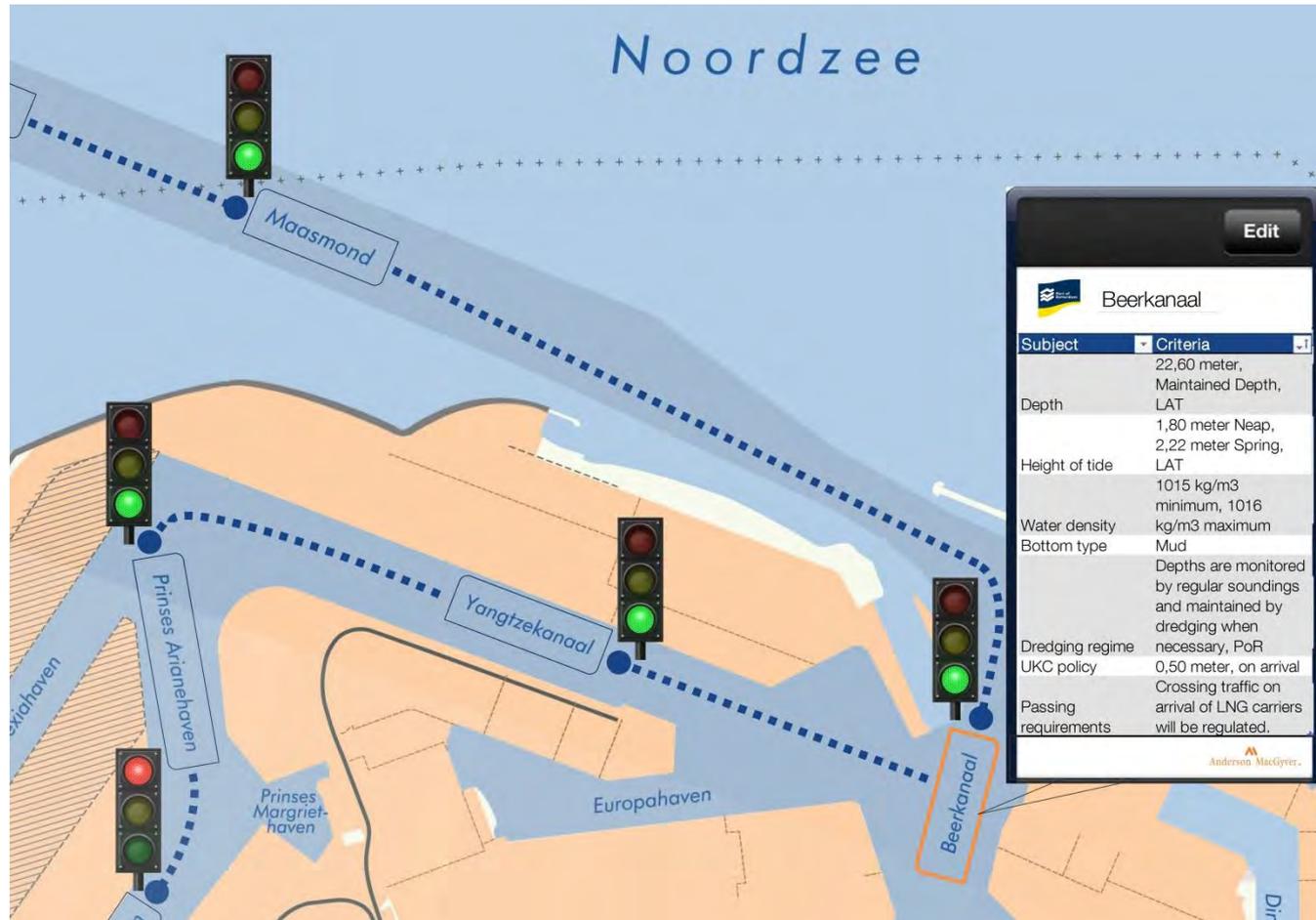


GHPB Traffic Committee

- Develop KPIs to determine root causes of delays on the Houston Ship Channel
- Discuss potential solutions and initiatives that may show value-added support to facilities, operators, and service providers.
- Discuss long-term issues that will allow HSC facilities, operators and service providers to increase productive vessel traffic in the Port of Houston.

Partnerships: Avanti

- Worldwide Port Information



Avanti

- Web-portal providing standardized global port data.
- Driven by Customers



MAERSK

- Ports Involved:
 - Rotterdam
 - Houston
 - Singapore
 - Gothenburg

The Same Language

- Step One: Definitions
- Categories
 - General
 - Depth
 - Restriction
 - Port General
 - Weather & Tidal
 - Reporting
 - Regulations
 - Safety
 - Nautical Services
 - Vessel Services

The Same Language

| | | | |
|---|---|--------|---|
| Underkeel Clearance policy | Policy to set a minimum difference between the draught of a vessel and the available depth of water | Yearly | Decimal meters or as a percentage of draught or beam with a minimum of xx. Per type of vessel, on arrival, alongside, or departure |
| Maximum draught without over the tide operations | The maximum depth of the keel below the waterline at any point along the hull, related to a specific water density | Yearly | Decimal meters Related to water density of xxxx kg/m3. Per type of vessel, on arrival, alongside, or departure |
| Maximum draught with over the tide operations | The maximum depth of the keel below the waterline at any point along the hull, related to a specific water density. Utilizing tidal changes to sail, discharge or load cargo before a low tide level is reached, thus maintaining the vessel "always afloat". | Yearly | Decimal meters Related to water density of xxxx kg/m3 Per type of vessel, on arrival, alongside, or departure |
| Maximum length | Maximum length Over All | Yearly | Decimal meters Per type of vessel, on arrival, alongside, or departure |
| Maximum beam | Maximum moulded beam | Yearly | Decimal meters Per type of vessel, on arrival, alongside, or departure |
| Maximum air draught | Distance from the surface of the water to the highest point on a vessel. Waterline = surface of the water touching the hull so these are equivalent. | Yearly | Decimal meters Per type of vessel, on arrival, alongside, or departure |
| Vertical tide restriction | Restriction due to the height of tide at any point | Yearly | Meters Referred to tidal info of location xxxx Per type of vessel, on arrival, alongside, or departure. Possibly with extra measures (free text) |

Avanti

Port Information Guide Rotterdam

[Search](#) [View](#) [Edit](#) [Approve](#) [Manage Roles](#) [Account](#) [Help](#) [Logout](#)

Contents [Download PDF](#) [Show Changes](#)

Viewer [General Information](#) [Navigation Sections](#)

PORT GENERAL INFORMATION

- General Information
- Developments
- Location
- Limits Description
- Load Line
- Maximum Vessel Sizes
- Time Zone
- Local Holidays
- Working Hours
- Cargo
- Charts
- Shipping Announcements
- ISPS Security Level
- Legal Disclaimer
- Website

CONTACT INFORMATION

PORT GENERAL INFORMATION Last approved: 03/03/2016 11:23:34 AM

Load Line

Load Line Code
North Atlantic Winter Seasonal Zone II - Winter: 1 Nov to 31 Mar, Summer: 1 Apr to 31 Oct

Maximum Vessel Sizes

| Maximum Size | Dimension | Supplementary Information |
|--------------|-----------|---|
| 22.55 | Draught | There are no restrictions regarding length and beam. Not every berth can accommodate maximum size vessels, check the berth information first. Over The Tide Operations is allowed in Port of Rotterdam. |

Time Zone

Map Layers

- Navigation Sections
- Anchorage
- Approach
- Basin
- Berth
- Bridge
- Canal/River
- Lock
- Pilot Station
- Charts - Rotterdam
- Krimpen A/D Lek to Moerdijk
- Rotterdam Nieuwe Maas and Oude Maas
- Hoek van Holland to Vlaardingse
- Approaches to Europoort and Hoek van Holland
- West Hinder and Outer Gabbard to Vlissingen and Scheveningen
- World

Opacity:

Port Display

The Next Steps

- Pronto: Tracking Local Operations

Pronto 2015-10-15 10:14

New event for Maersk Northampton - Terminal Planned ETA Berth: 2015-10-19 10:00

Pronto 2015-10-15 10:16

New event for Maersk Northampton - Agent Requested ETA Pilot Station: 2015-10-19 07:00

Pronto 2015-10-15 10:18

New event for Maersk Northampton - Pilot Planned ETA Pilot Station: 2015-10-19 07:30

Pronto 2015-10-15 10:19

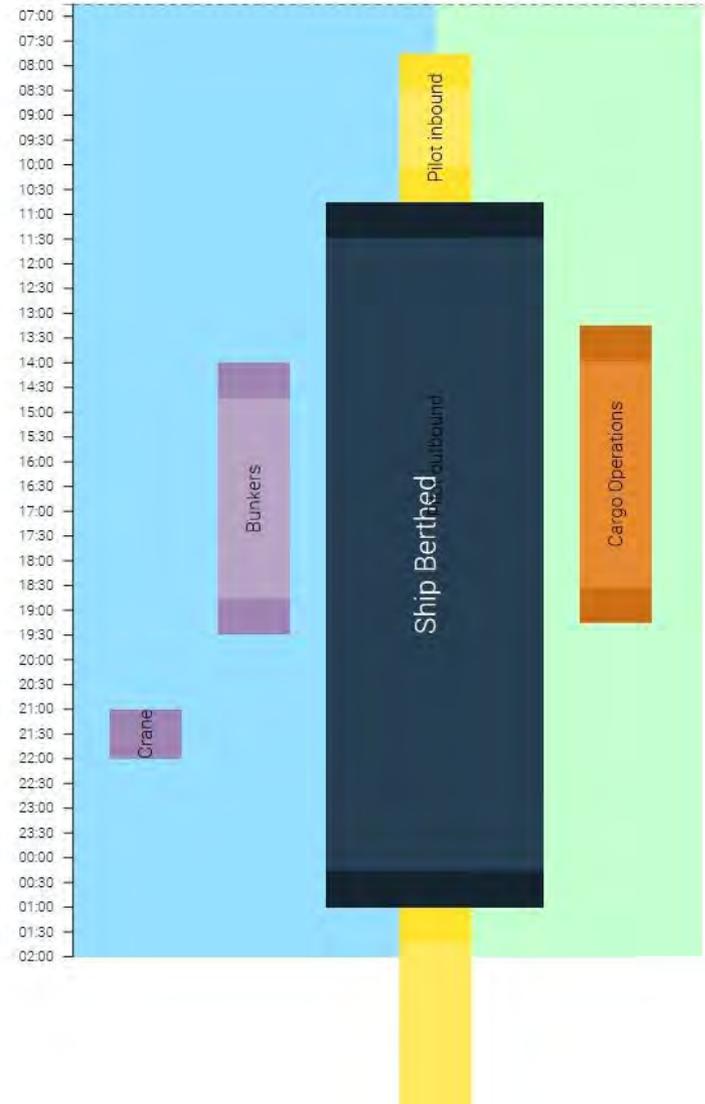
New event for Maersk Northampton - Pilot Report ATA Pilot Station: 2015-10-19 07:45

Pronto 2015-10-15 10:22

New event for Maersk Northampton - Linemen Report ATA Berth: 2015-10-19 10:30

Pronto 2015-10-15 10:23

New event for Maersk Northampton - Linemen Report All Fast: 2015-10-19 10:45



Questions?

