

# **IMMINGHAM EASTERN RO-RO TERMINAL**



Applicant's Response to ISH5 Action Point 5 - Part 1

**Document 10.2.73** 

APFP Regulations 2009 – Regulation 5(2)(q)

PINS Reference - TR030007

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# **Document Information**

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#### ISH5 Action Point 5 - Challenging Day Scenario

#### **Action Point 5**

Provide, with commentary including temporal and spatial information, graphic representations of the arrival and departure of vessels throughout a day with challenging met-ocean conditions for:

- · the existing Port of Immingham; and
- the existing port plus projected vessel movements to and from the Proposed Development.

#### **Case Study Explanation**

Historical data was analysed between the periods 1<sup>st</sup> November 2022 and 1<sup>st</sup> November 2023 to find a factual challenging day scenario that occurred on the Humber Estuary. From the analysis the following was determined:

Vessel Movements During Period 1st Nov 22 to 1st Nov 23					
Description	Vessel Movements	Comments			
Highest recorded	85	Post suspension of Pilotage.			
		Extraordinary circumstances			
Mean range	41 – 79	In a 24hr period			
Average	60	In a 24hr period			
Case study day	72	In a 24hr period			

The case study day was selected as a factual representation of a busier than average day, on a spring tide, where the high-water Immingham time coincides with the arrival and departure time of the vessels for the proposed IERRT terminal. For context, the periods with the highest observed traffic in the Immingham area are approximately between two hours before high water to two hours after high water.

The graphic representations in Annex I are screen captures from the Vessel Traffic Services traffic monitoring system database. The Harbour Authority do not normally make this data available to the public therefore the case study date and time, and the vessels names have been removed to maintain confidentiality however a list of vessel movements has been included below including the vessel type, origin and destination.

The Graphic representations in Annex II are the same screen captures from the Vessel Traffic Services traffic monitoring system database as in Annex I, with the IERRT infrastructure and the projected vessel movements to and from the proposed development superimposed. The time frame of these screen captures are focused on the arrival and departure times for the vessels calling the proposed terminal.

#### **Tide Timings & Screen Capture Timings**

AM High Water Immingham time = 0700 Hrs PM High Water Immingham time = 1930 Hrs

Screen capture times in Annexes I & II are in 15-minute time frames relative to before and after each high-water period.

#### **Vessel Movements**

Vessels included in this table are all vessel movements to ports and berths in the inland direction, and inclusive of, Immingham totalling 59 movements. The remaining 13 movements would have been to the Seaward direction, not inclusive, of Immingham therefore did not interact with the Immingham area.

Also not included in this number and table are registered river craft and pleasure craft e.g. tugs, barges, fishing vessels and yachts. These vessels are however visible on the screen captures.

Vessel Move	ements from 0001	- 1200 Hrs in or	der relative to	time of arrival a
Voyage Type	Origin	Destination	Vessel Type	LOA
Departure	Immingham Dock 8 Qy	Sea	Container Carrier	101.11
Departure	South Killingholme Oil Jetty	Sea	Lpg	95.00
Arrival	Sea	Immingham Oil Terminal 8	Tank	85.32
Arrival	Sea	Immingham Container Terminal 1	Ro/Ro	187.06
Arrival	Sea	Humber Sea Terminal 1	Ro/Ro	212.00
Arrival	Sea	Immingham Outer Harbour 2	Ro/Ro	232.00
Arrival	Sea	Hull King George Dock No.3 Shed	Tank	149.61
Arrival	Sea	Hull River Terminal 1	Passenger Ro/Ro	215.00
Arrival	Sea	Grove LE1	General Cargo	82.23
Departure	Immingham Outer Harbour 2	Sea	Ro/Ro	229.80
Departure	Immingham Oil Terminal 8	Sea	Tank	85.32
Arrival	Sea	Immingham Gas Terminal	Lpg	88.40
Departure	Hull Albert Dock 34 Qy	Sea	General Cargo	84.98
Arrival	Sea	Humber Sea Terminal 5	Ro/Ro	195.40
Arrival	Sea	New Holland Dock North	General Cargo	88.60
Departure	Immingham Bulk Terminal	Sea	Bulk	229.00
Arrival	Sea	Flixborough	General Cargo	87.84
Arrival	Sea	Goole	General Cargo	94.70
Arrival	Sea	Humber Sea Terminal 3	Ro/Ro	203.00
Departure	Immingham Dock 4 Qy	Sea	Bulk	89.95
Departure	Immingham Gas Terminal	Sea	Tank	95.15
Arrival	Sea	Hull Queen Elizabeth Dock 9 Qy East	Container Carrier	99.95

Vessel Movements from 1201 – 2359 Hrs in order relative to time of arrival at de				
Voyage Type	Origin	Destination	Vessel Type	LOA
Arrival	Sea	Immingham Dock 7 Qy	General Cargo	88.00
Arrival	Sea	Immingham Oil Terminal 2	Tank	183.20
Arrival	Sea	Immingham Outer Harbour 1	Ro/Ro	195.20
Arrival	Sea	Immingham Dock 11 Qy Nordic	General Cargo	162.57
Arrival	Sea	Immingham Dock 8 Qy	Container Carrier	101.12
Arrival	Sea	Hull Queen Elizabeth Dock 9 Qy East	Container Carrier	140.64
Departure	Humber Sea Terminal 3	Sea	Ro/Ro	203.00
Departure	Hull King George Dock 3 Qy East	Sea	General Cargo	97.51
Arrival	Sea	Immingham Dock 3 Qy extn	Bulk	157.00
Arrival	Sea	Saltend Jetty 3	Chemical Tank	99.40
Arrival	Tilbury	Immingham HIT 1	Vehicle	227.95
Departure	Hull Queen Elizabeth Dock 9 Qy East	Sea	Container Carrier	99.95
Arrival	Sea	Hull King George Dock No.16 Shed	General Cargo	115.23
Arrival	Sea	Immingham Oil Terminal 3	Chemical Tank	99.40
Departure	Humber Sea Terminal 5	Sea	Ro/Ro	195.40
Arrival	Sea	New Holland East Outer	General Cargo	99.90
Departure	Immingham Outer Harbour 2	Sea	Ro/Ro	232.00
Arrival	Sea	Immingham Dock 12 Qy Nordic	Ro/Ro	199.80
Departure	Immingham HIT 1	Sea	Bulk (BBU)	179.99
Departure	Immingham Oil Terminal 3	Sea	Tank (TTA)	128.60
Departure	Humber Sea Terminal 1	Sea	Ro/Ro	212.00
Departure	Immingham Oil Terminal 6	Sea	Tank (TTA)	95.14
Departure	Immingham Outer Harbour 1	Sea	Ro/Ro (URR)	195.20
Arrival	Sea	Immingham Outer Harbour 2	Ro/Ro (URR)	230.00
Departure	Hull River Terminal 1	Sea	Passenger Ro/Ro (PRR)	215.00

Arrival	Sea	Goole	General Cargo (GGC)	82.50	
Arrival	Sea	Goole	General Cargo (GGC)	89.99	
Departure	Immingham Dock 1 Qy	Sea	Pontoon (OPO)	18.30	
Departure	Immingham Dock	Sea	Ro/Ro (URR)	187.06	
Departure	New Holland Dock North	Sea	General Cargo (GGC)	88.60	
Departure	Hull King George Dock No.2 Shed	Sea	General Cargo (GGC)	118.40	
Departure	New Holland East Outer	Sea	General Cargo (GGC)	82.40	
Departure	Grove LE1	Sea	General Cargo (GGC)	82.23	
Departure	Immingham Dock	Sea	Container	141.58	
Departure	Goole	Sea	General Cargo (GGC)	81.40	
Departure	Goole	Sea	General Cargo (GGC)	98.05	
Departure	Immingham Dock	Sea	Ro/RO (URR)	162.57	

#### **Vessel Movements**

As evidenced in Annex II, with the proposed IERRT infrastructure in place minimal deconfliction of the factual traffic situations presented would be required. A minor adjustment (less than 5 minutes) to a vessel's departure time from the proposed IERRT infrastructure was required to allow a vessel to depart from Immingham lock ahead of the IERRT vessel.

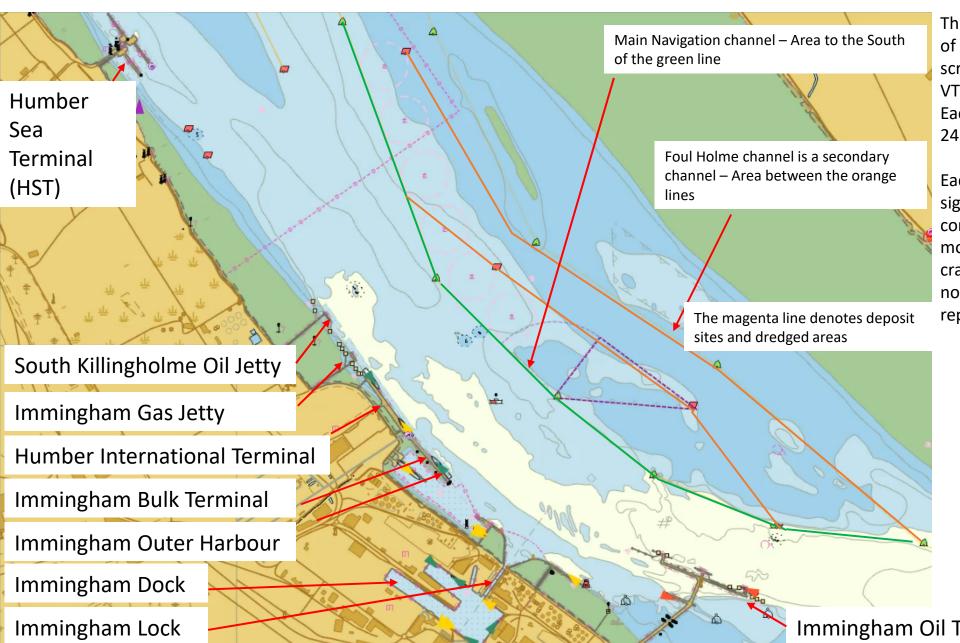
# ISH5 Action 5

Annex I

A replay of the VTS traffic monitoring system

Part 1 of 2

# **Explanatory Note**

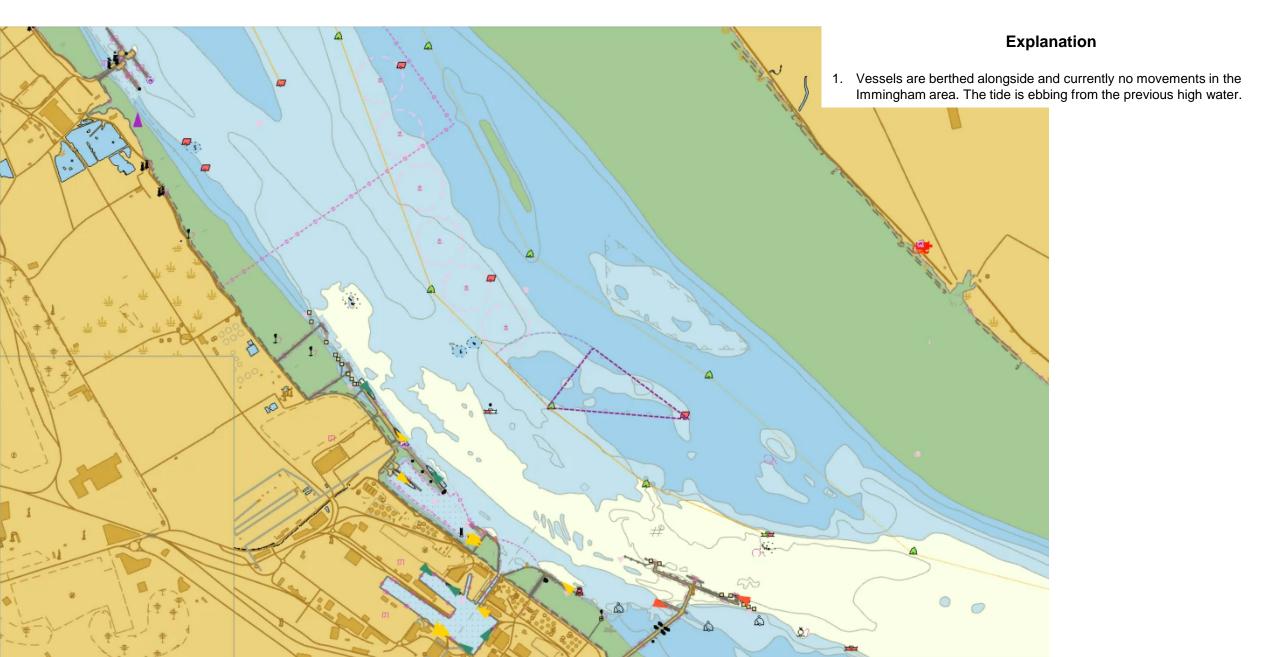


This annex depicts the geographical area of Immingham over a 24hr period. The screen captures are taken from a replay VTS Humber's traffic monitoring system. Each page is 15 minutes apart for the 24hr period.

Each page has an explanation. Only significant vessel movements i.e. commercial ships are detailed. Other movements, such as tugs and pleasure craft, are not provided with explanatory notes but can been seen within the replay.

Immingham Oil Terminal

# AM HW -7Hrs (Midnight 24hr Period Commence)



# AM HW -6.75Hrs



# AM HW -6.5Hrs



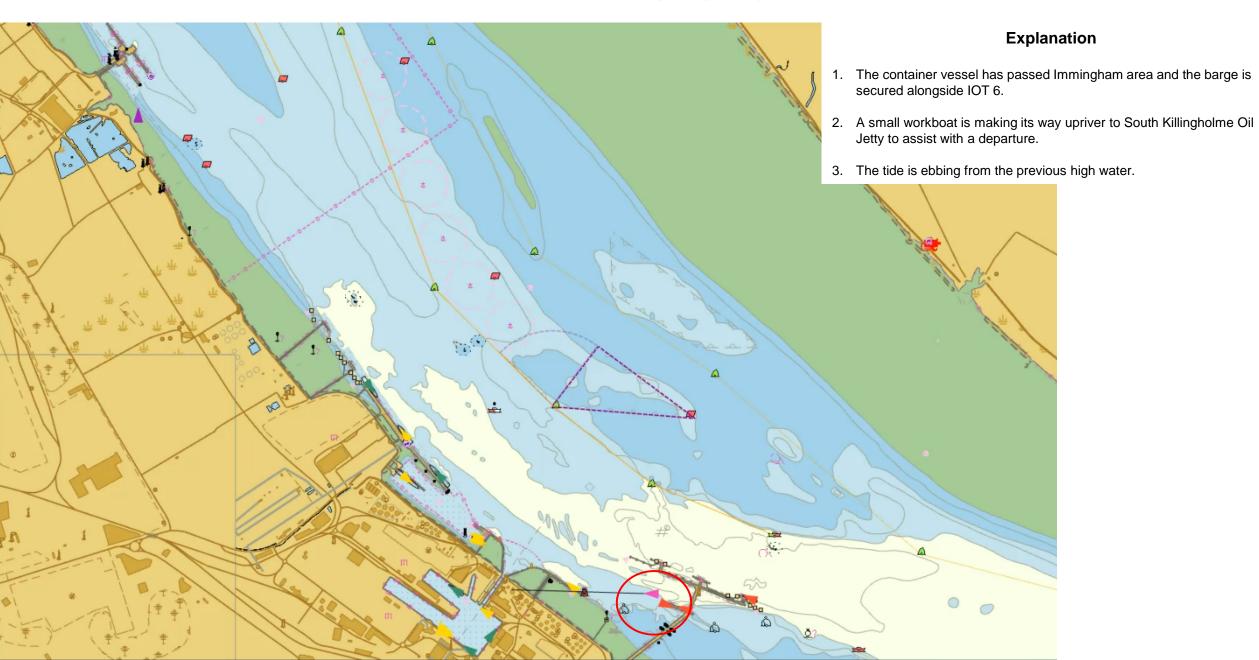
# AM HW -6.25Hrs



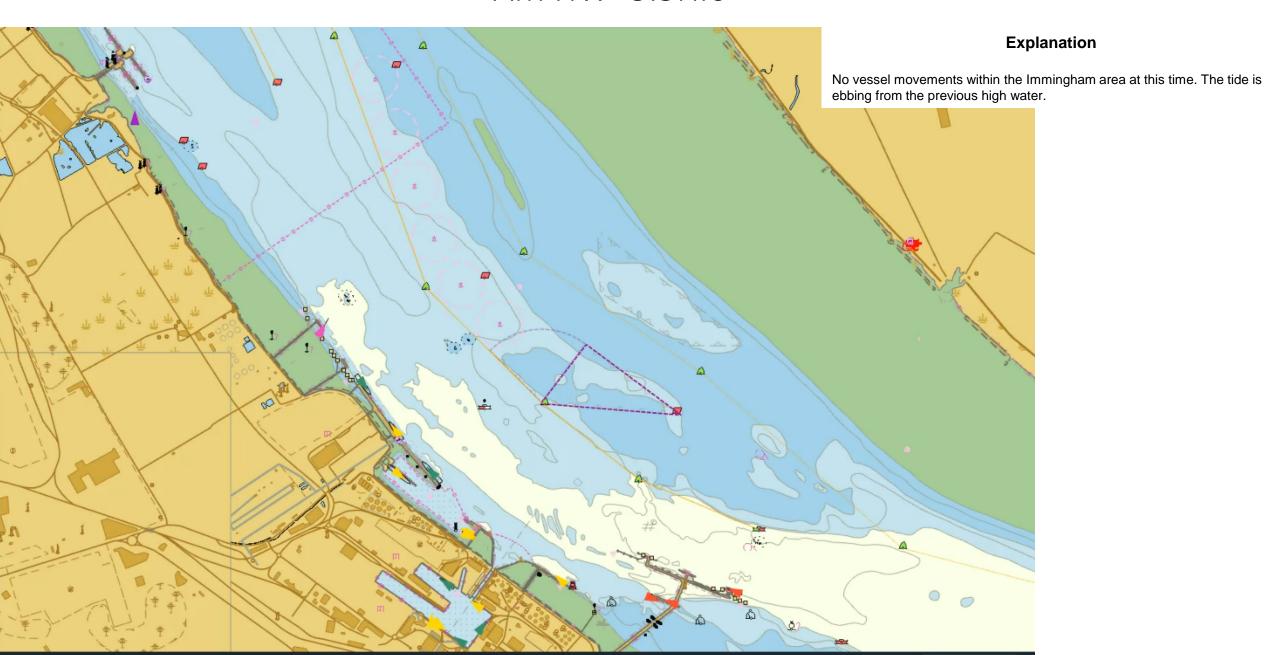
# AM HW -6Hrs



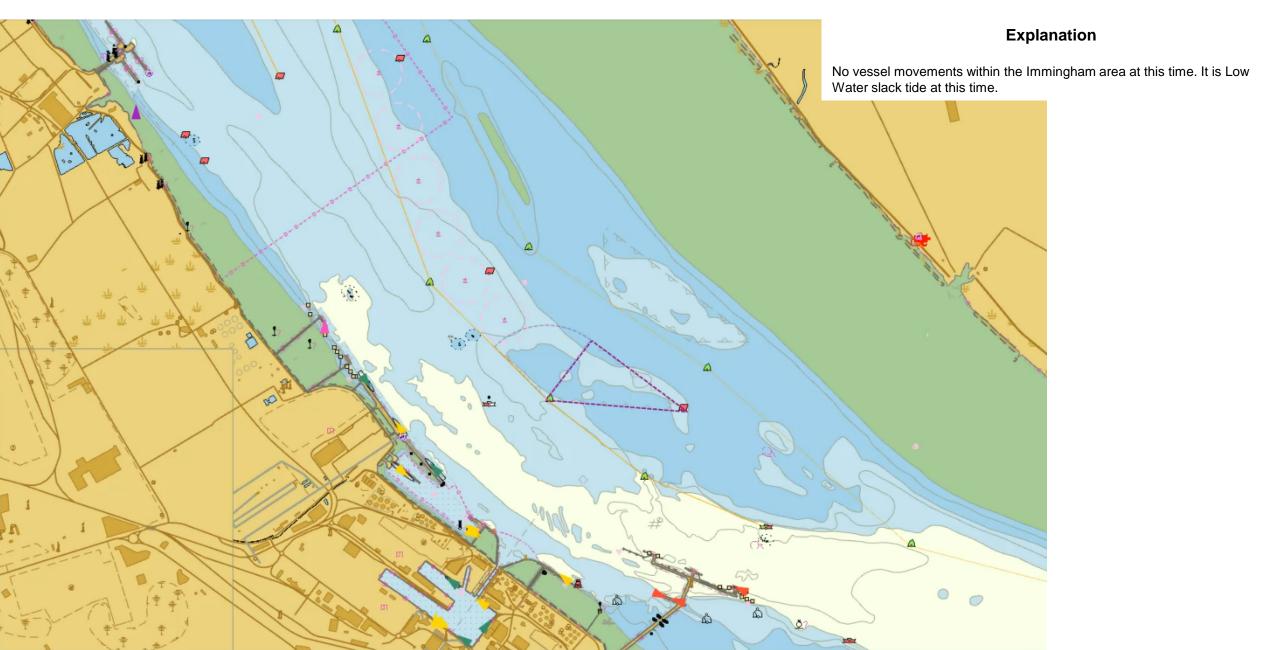
#### AM HW -5.75Hrs



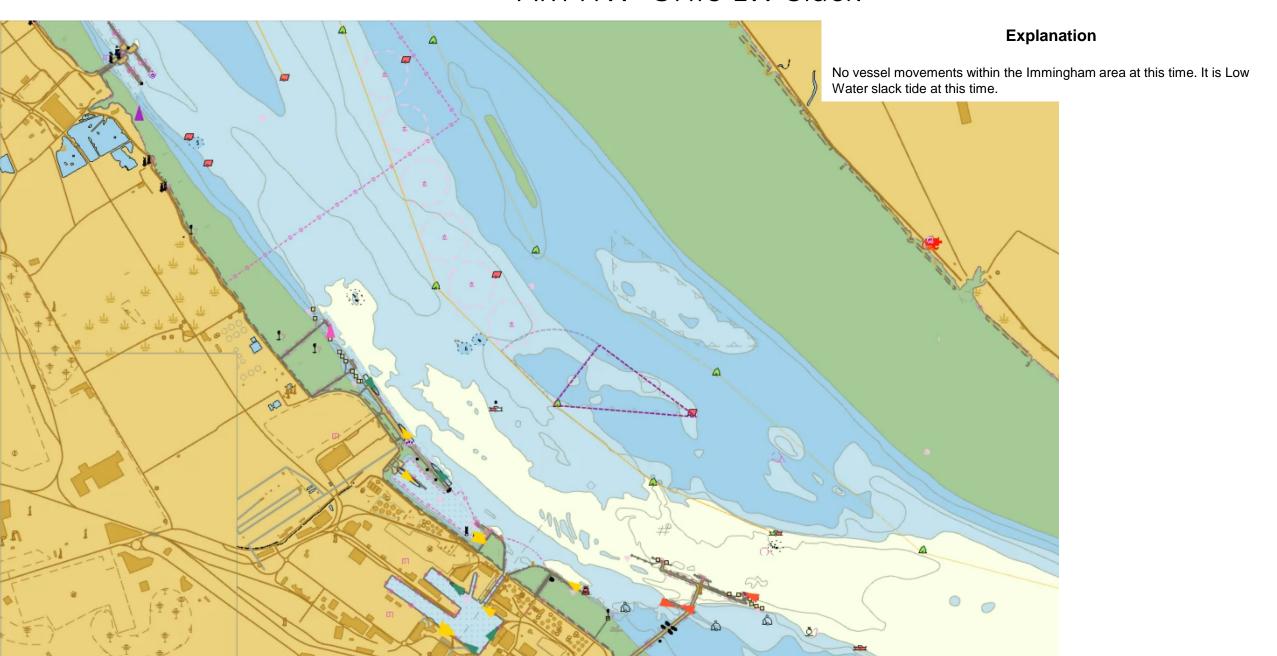
# AM HW -5.5Hrs



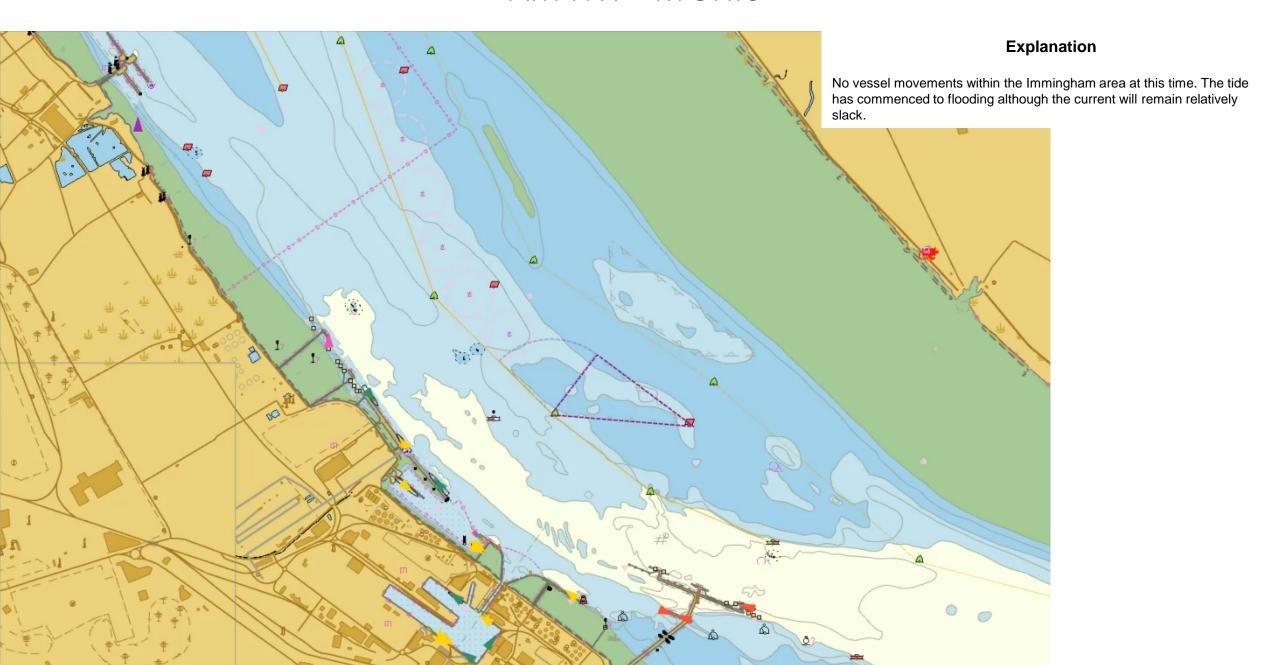
# AM HW -5.25 LW Slack



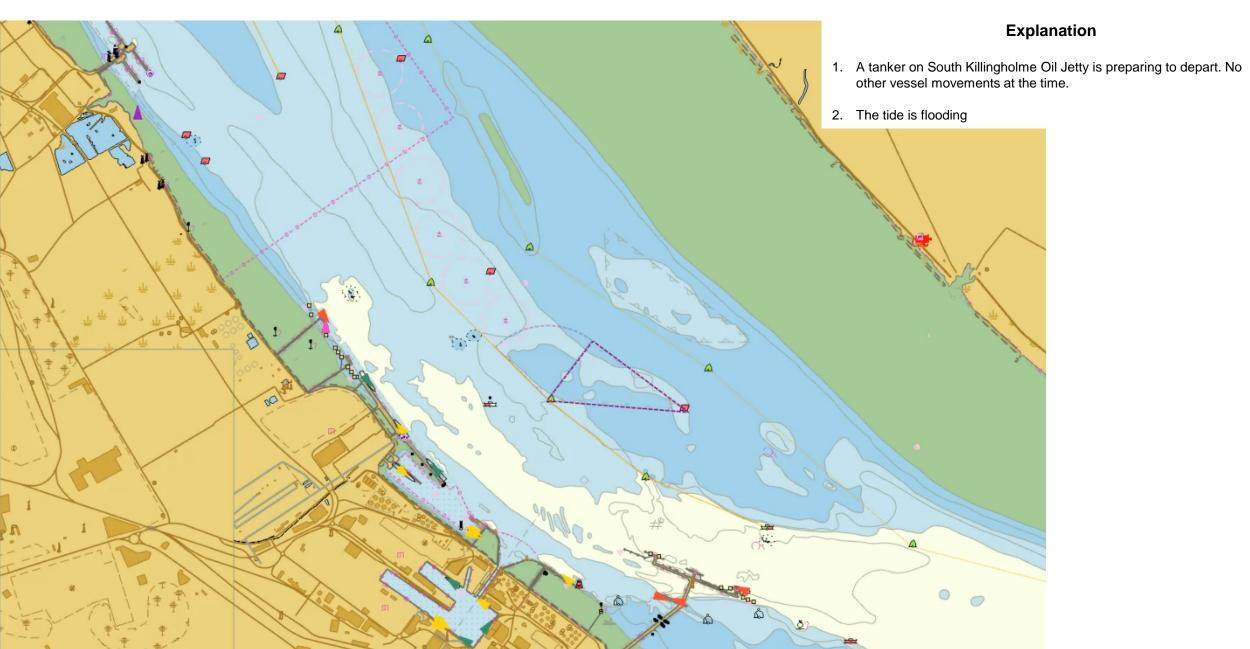
# AM HW -5Hrs LW Slack



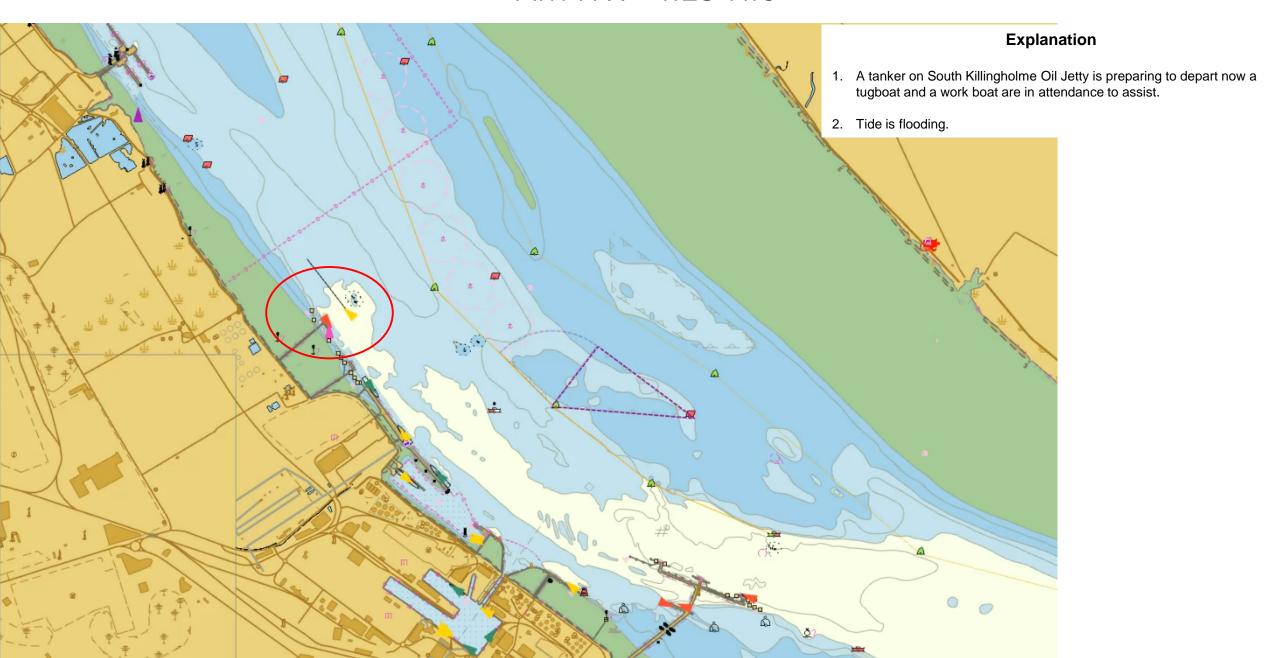
# AM HW -4.75Hrs



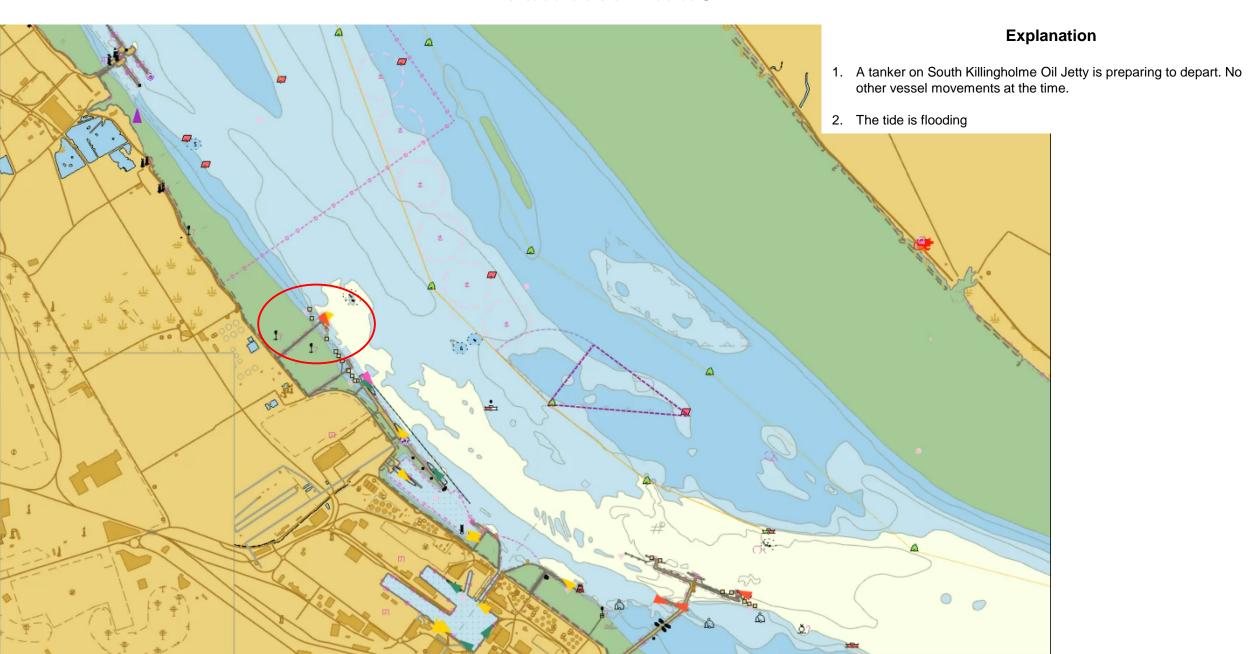
# AM HW -4.5Hrs



#### AM HW -4.25 Hrs



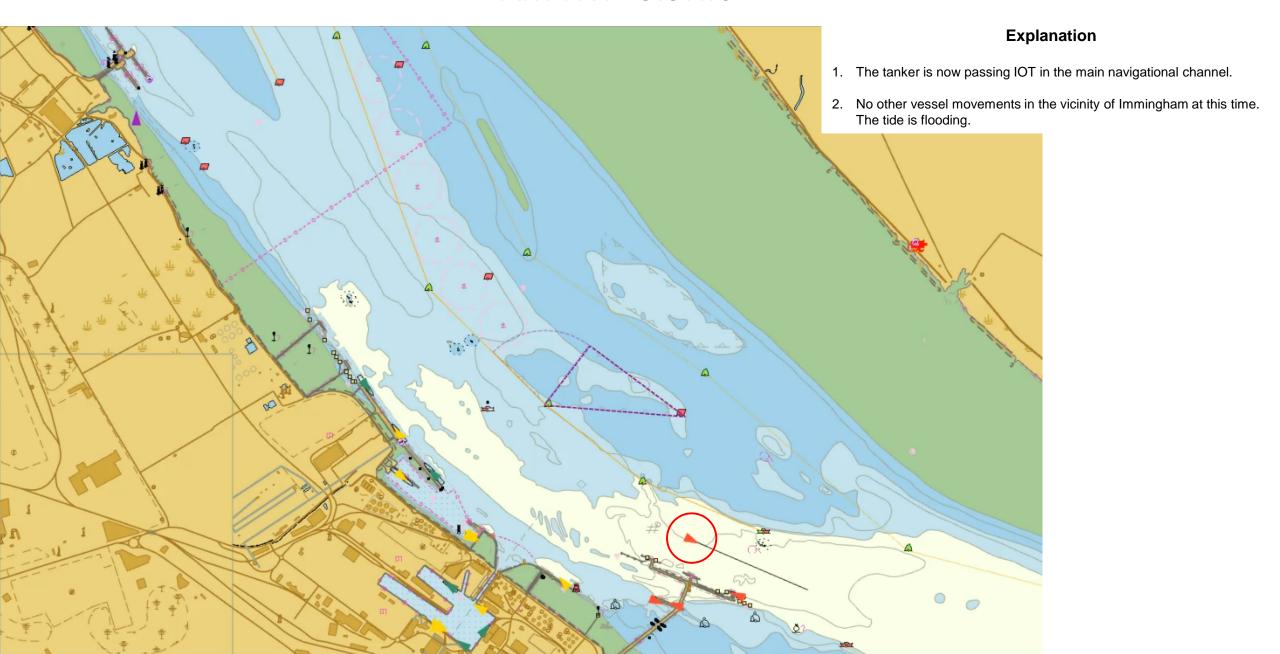
# AM HW -4Hrs



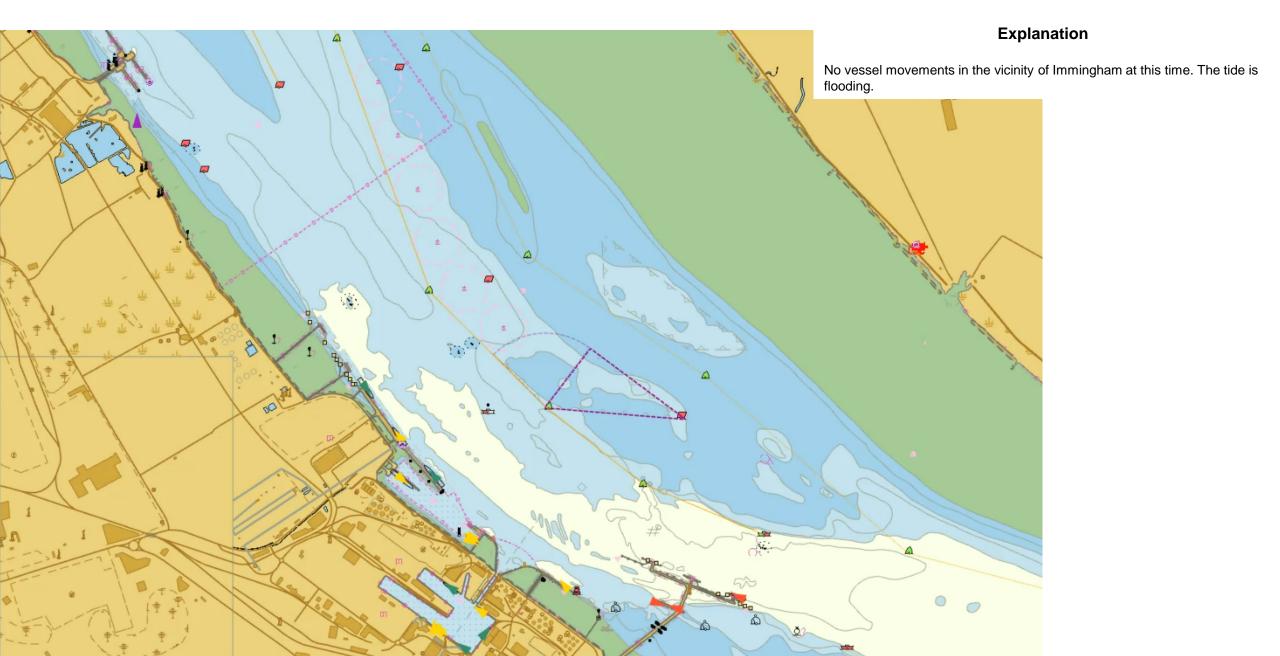
# AM HW -3.75Hrs



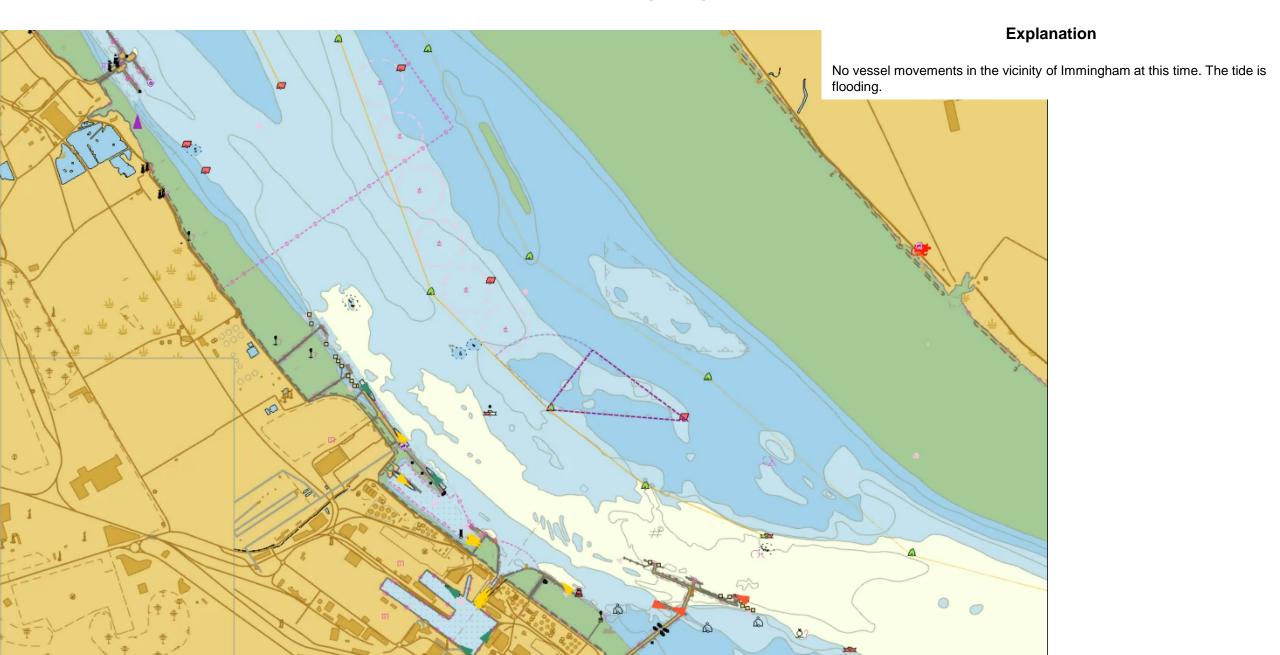
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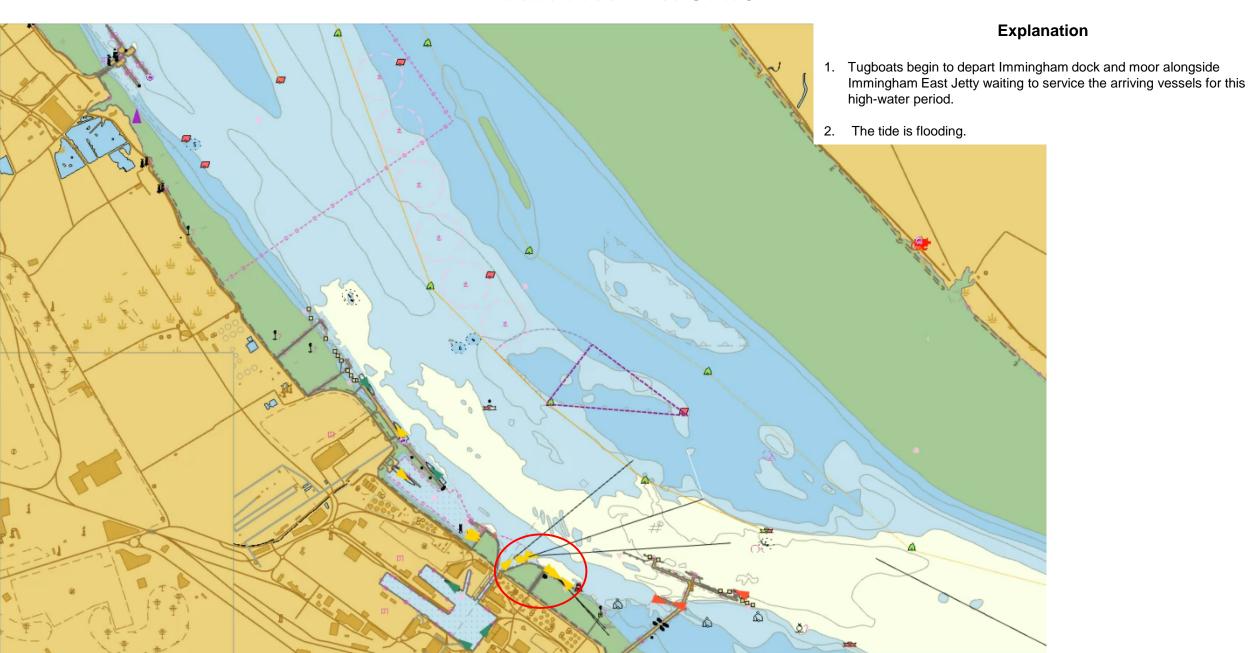
# AM HW -3.25Hrs



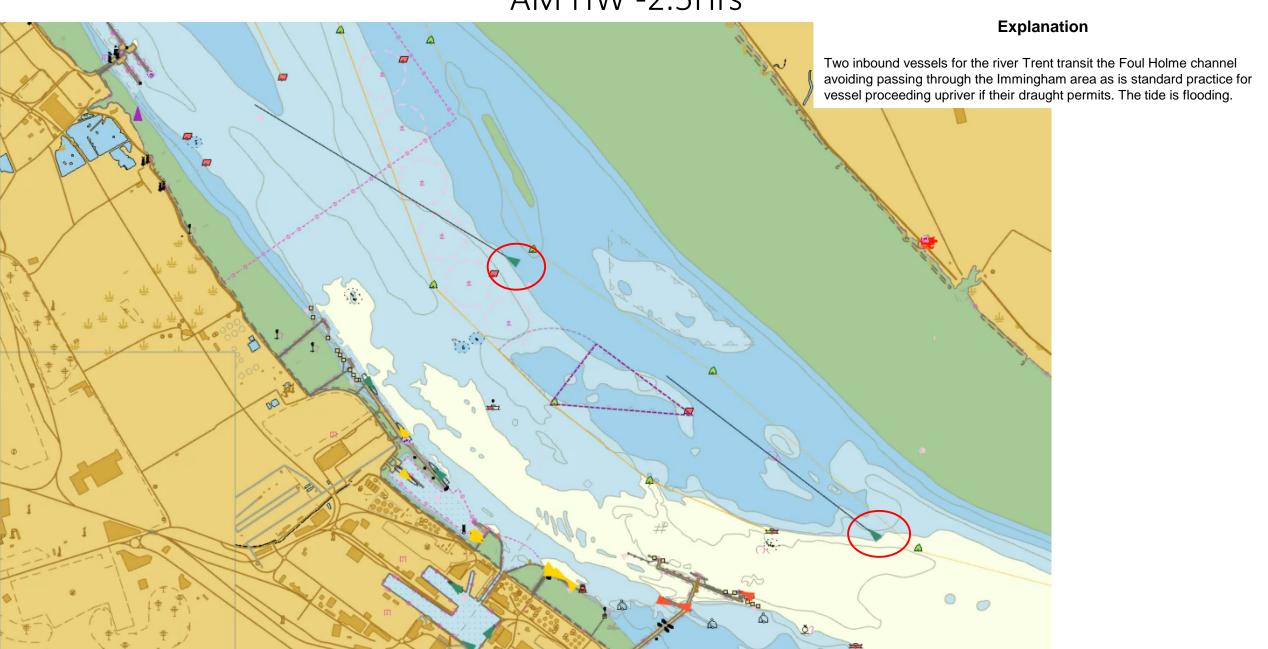
# AM HW -3Hrs



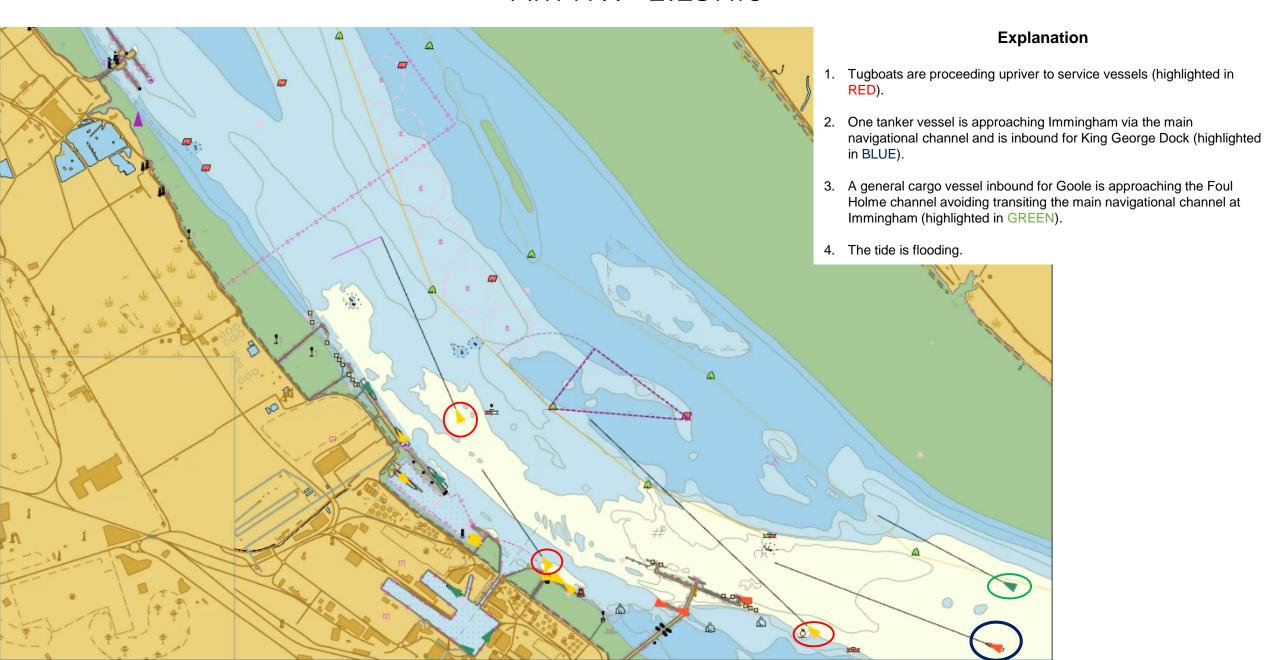
# AM HW -2.75Hrs



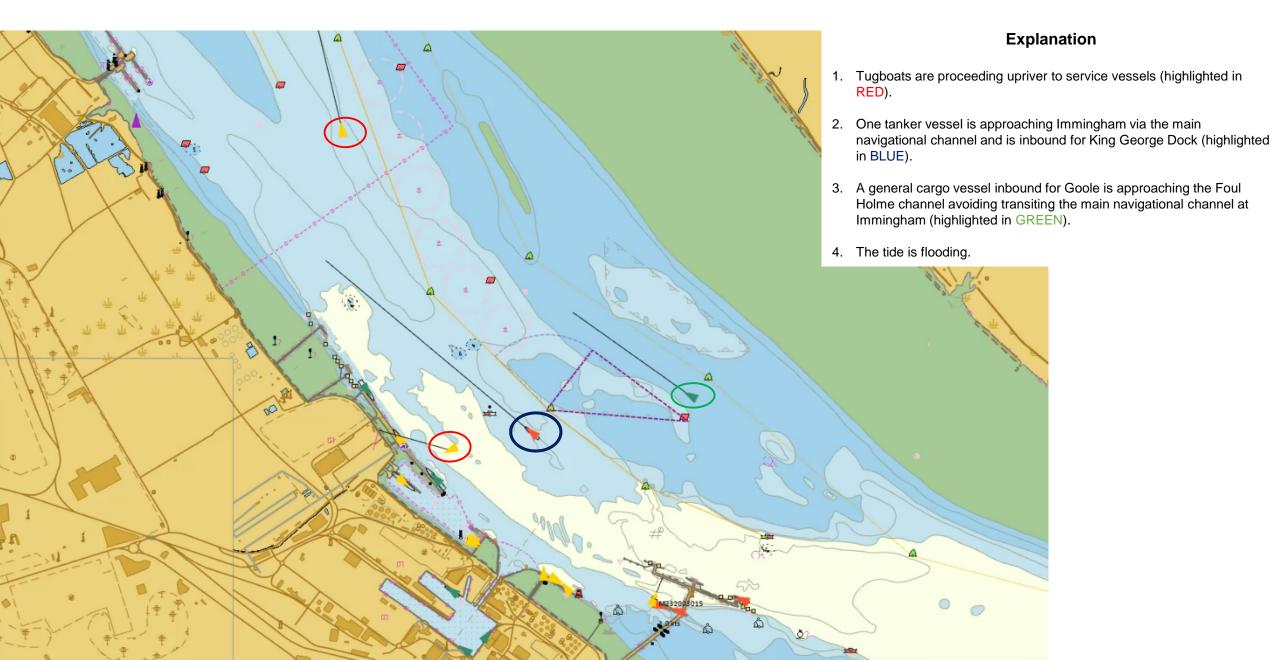
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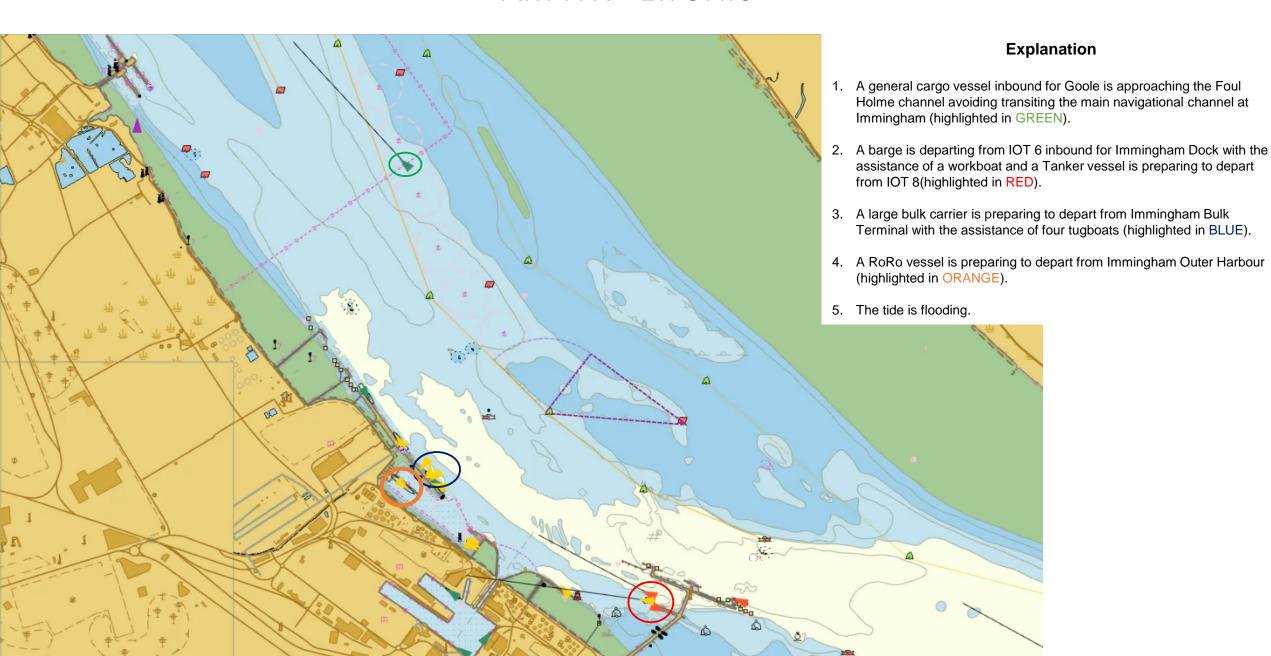
#### AM HW -2.25Hrs



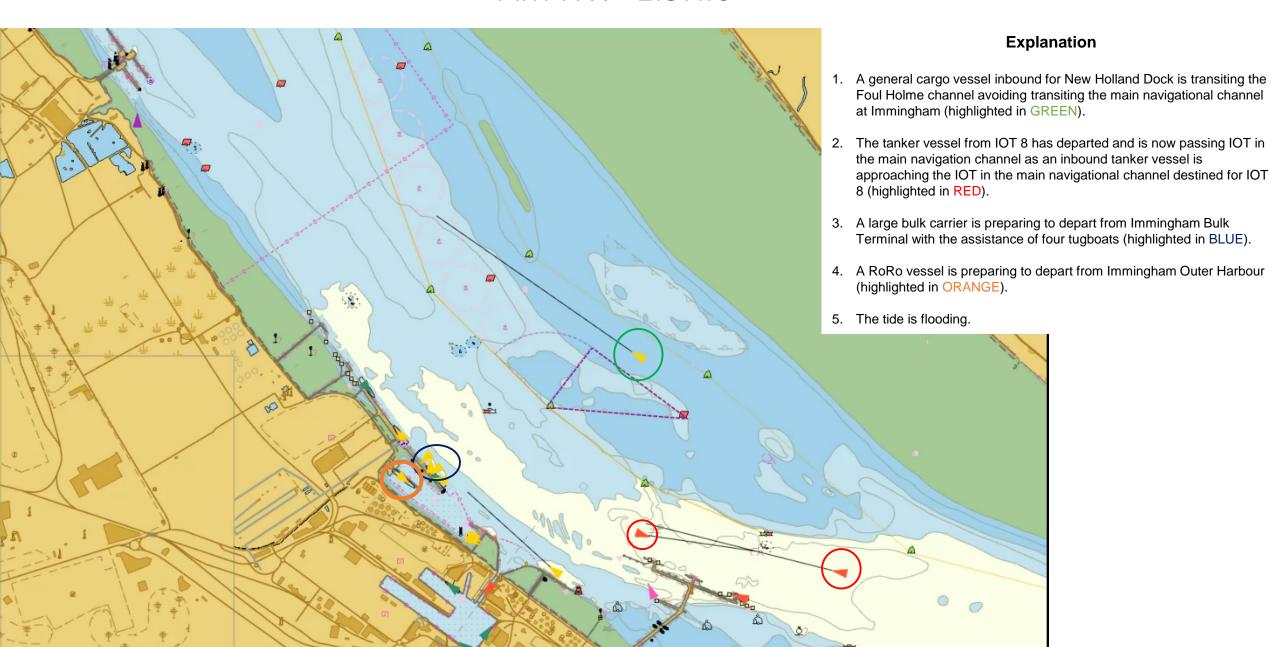
#### AM HW -2Hrs



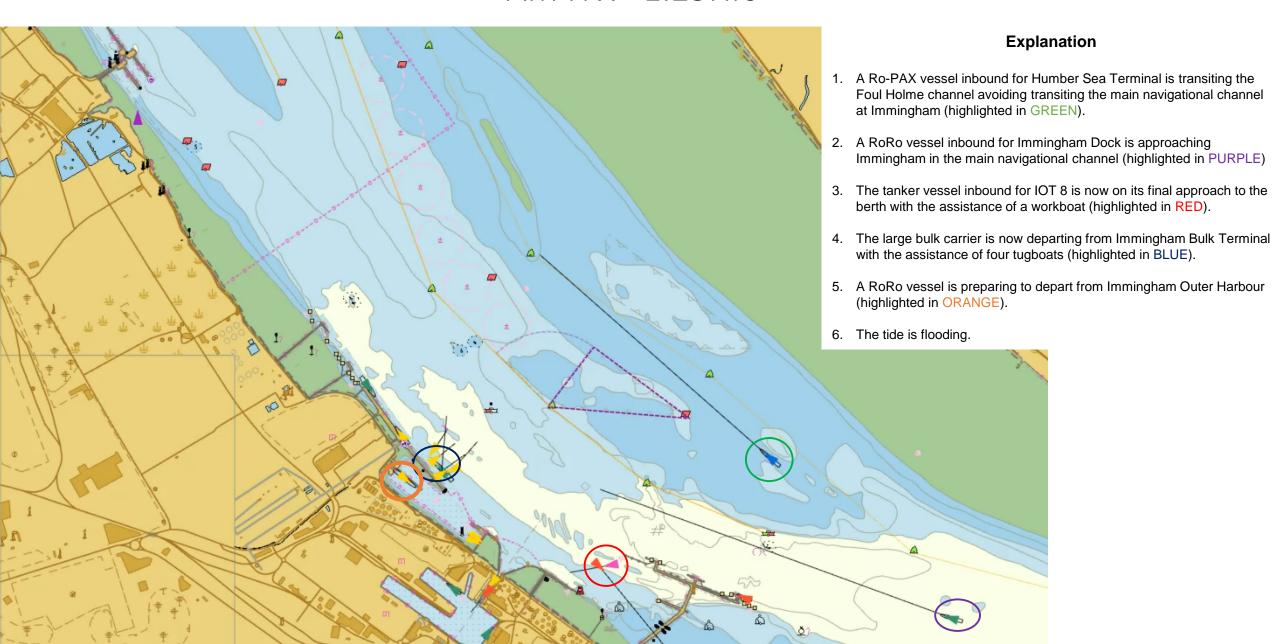
#### AM HW -1.75Hrs



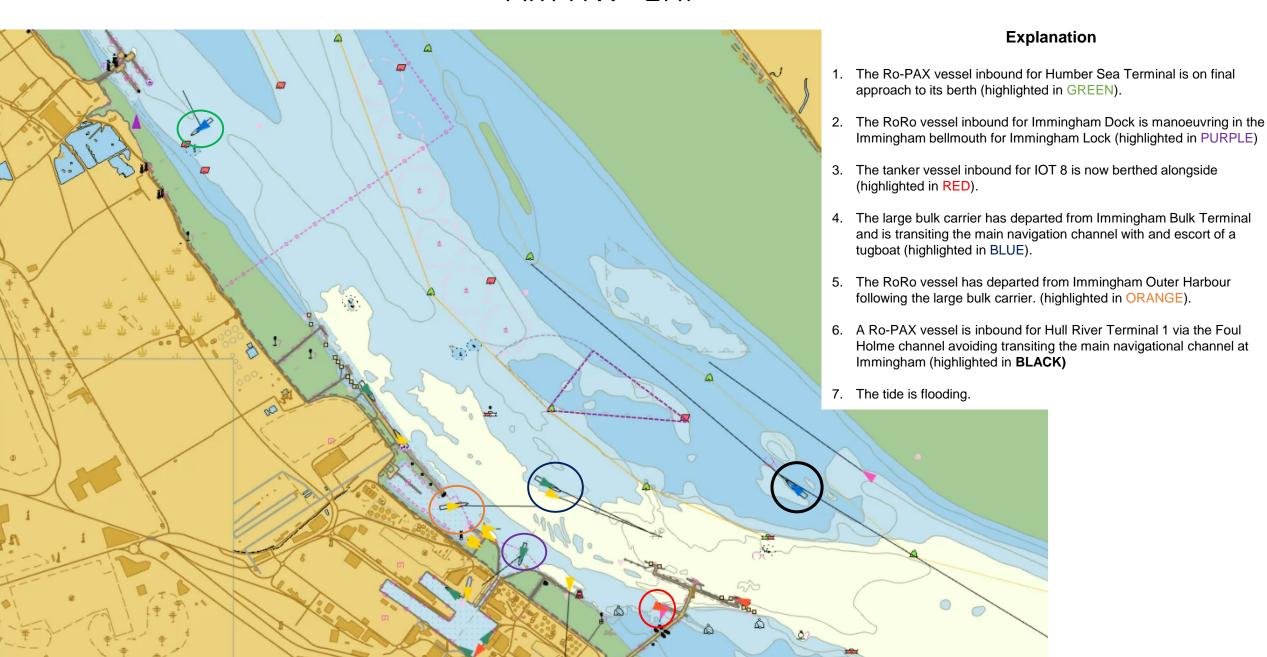
#### AM HW -1.5Hrs



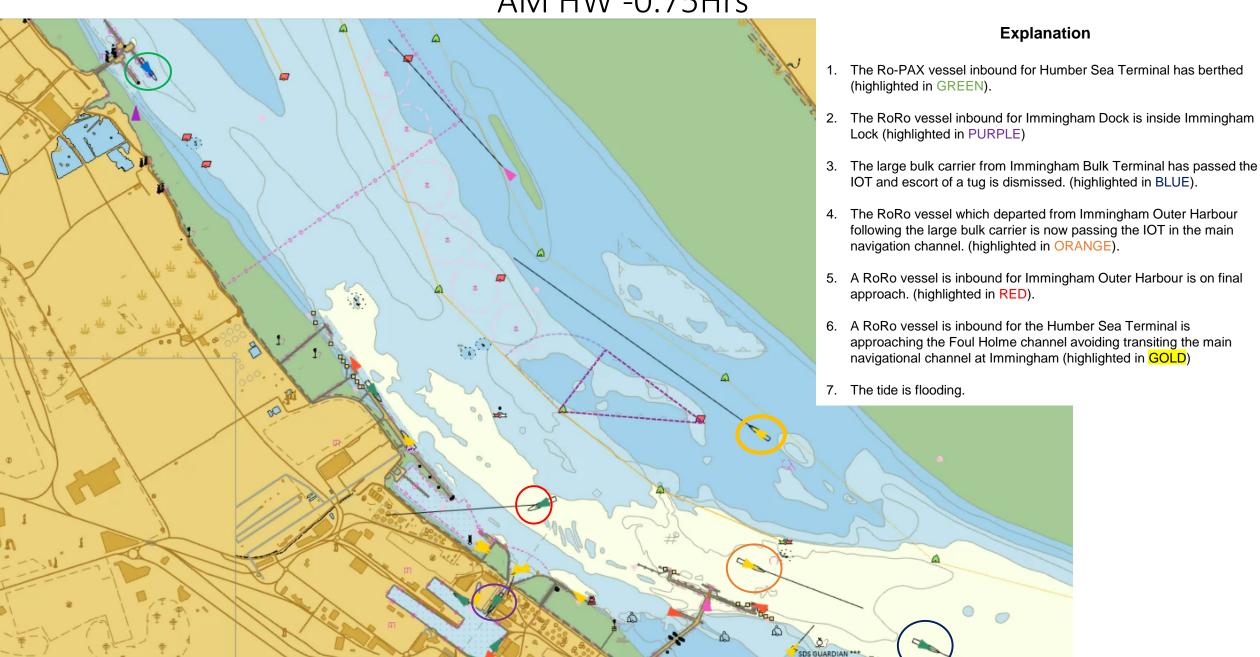
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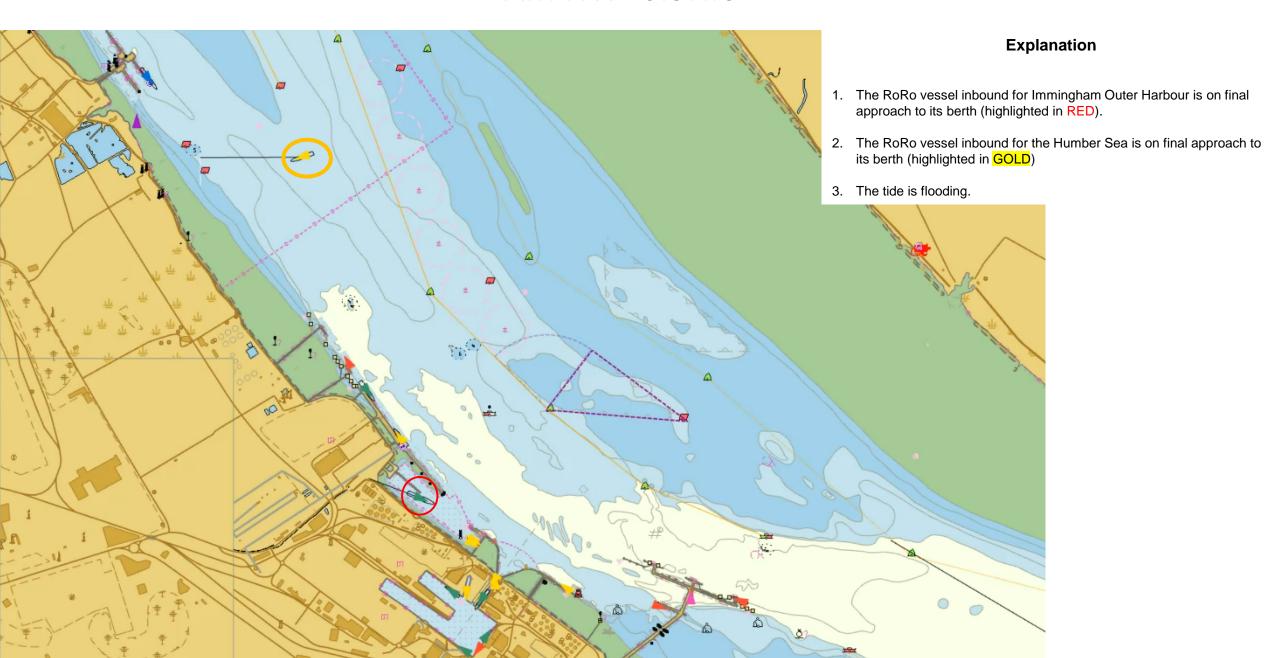
#### AM HW -1Hr



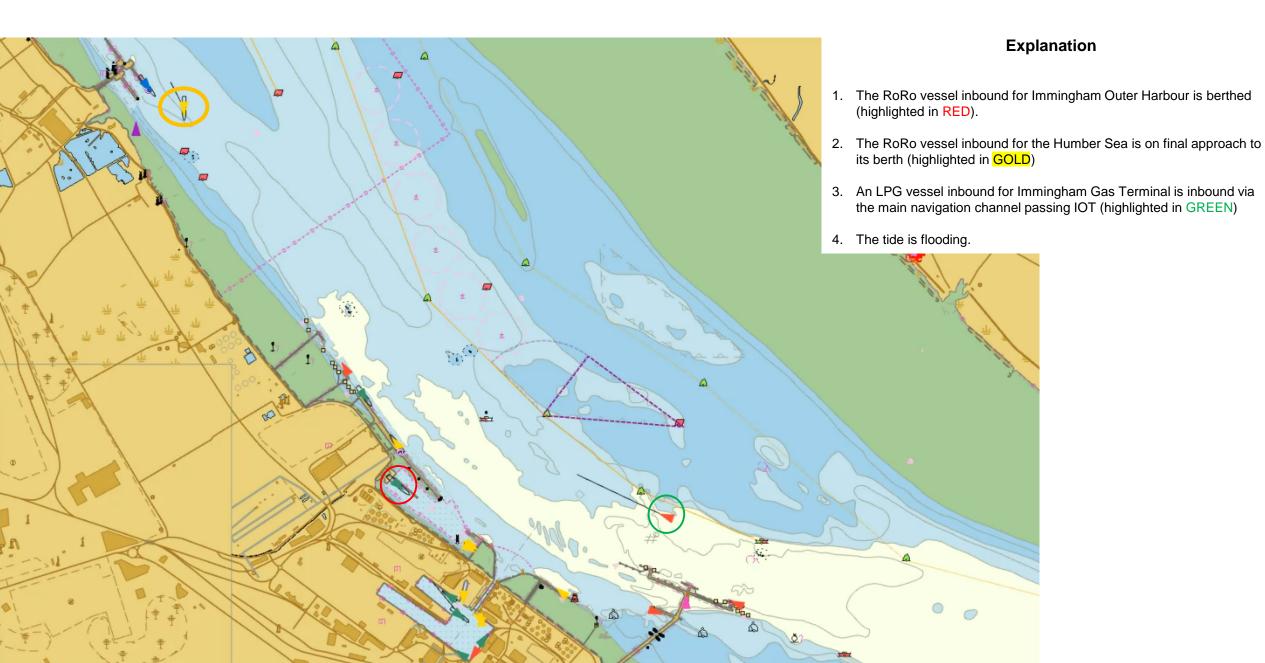
#### AM HW -0.75Hrs



#### AM HW -0.5Hrs



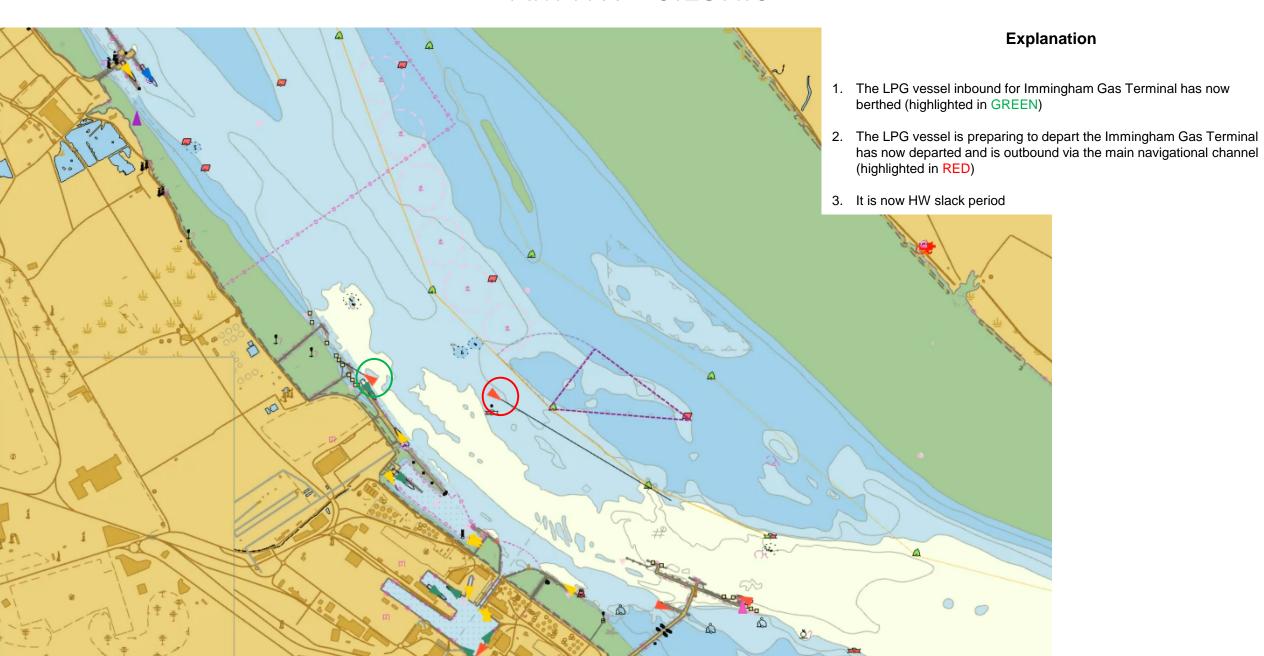
#### AM HW -0.25Hrs



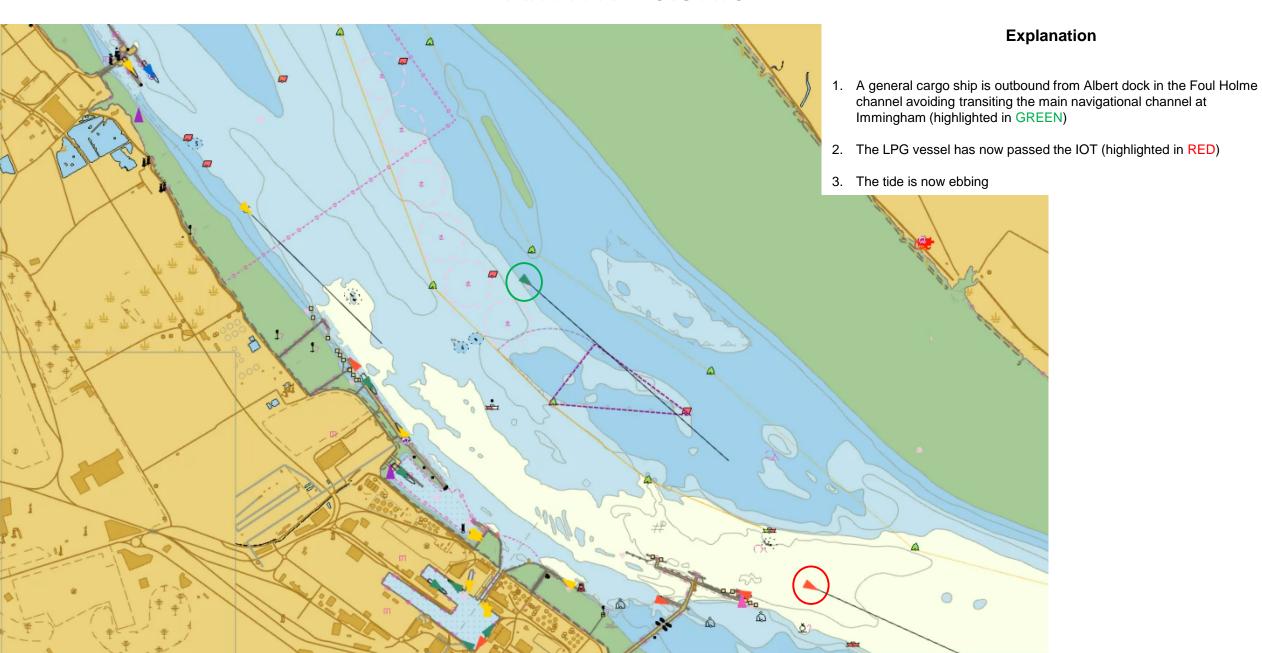
# High Water Immingham



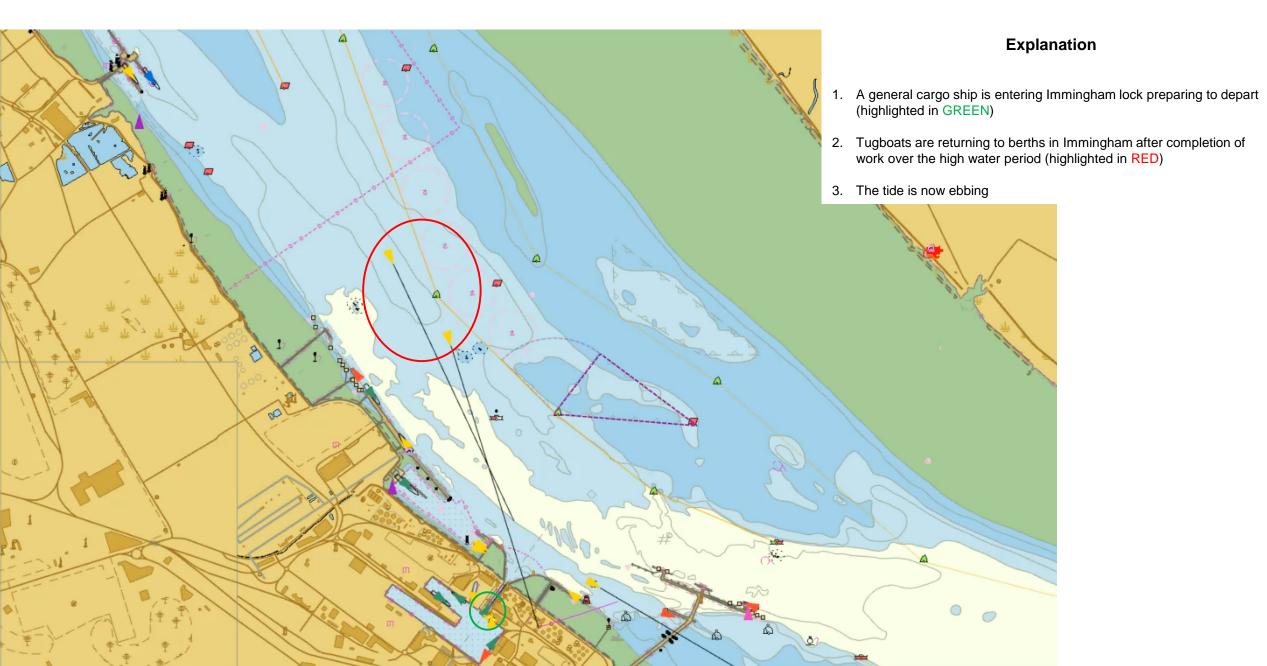
## AM HW +0.25Hrs



#### AM HW +0.5Hrs



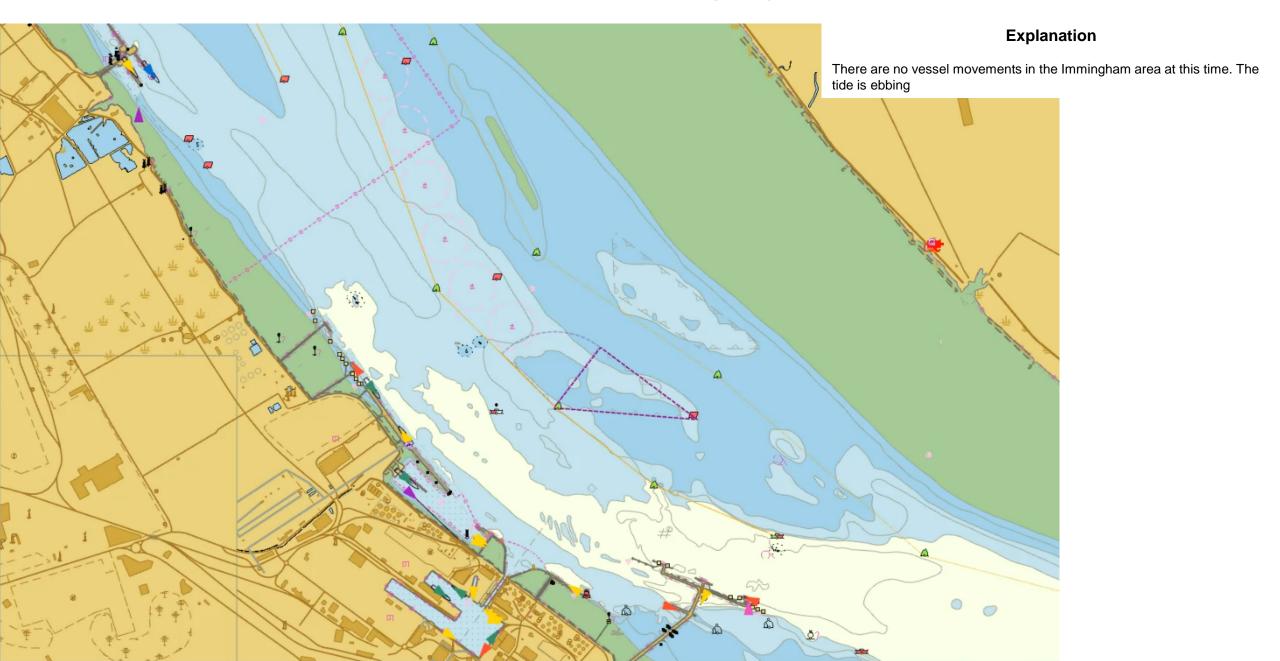
#### AM HW +0.75Hrs



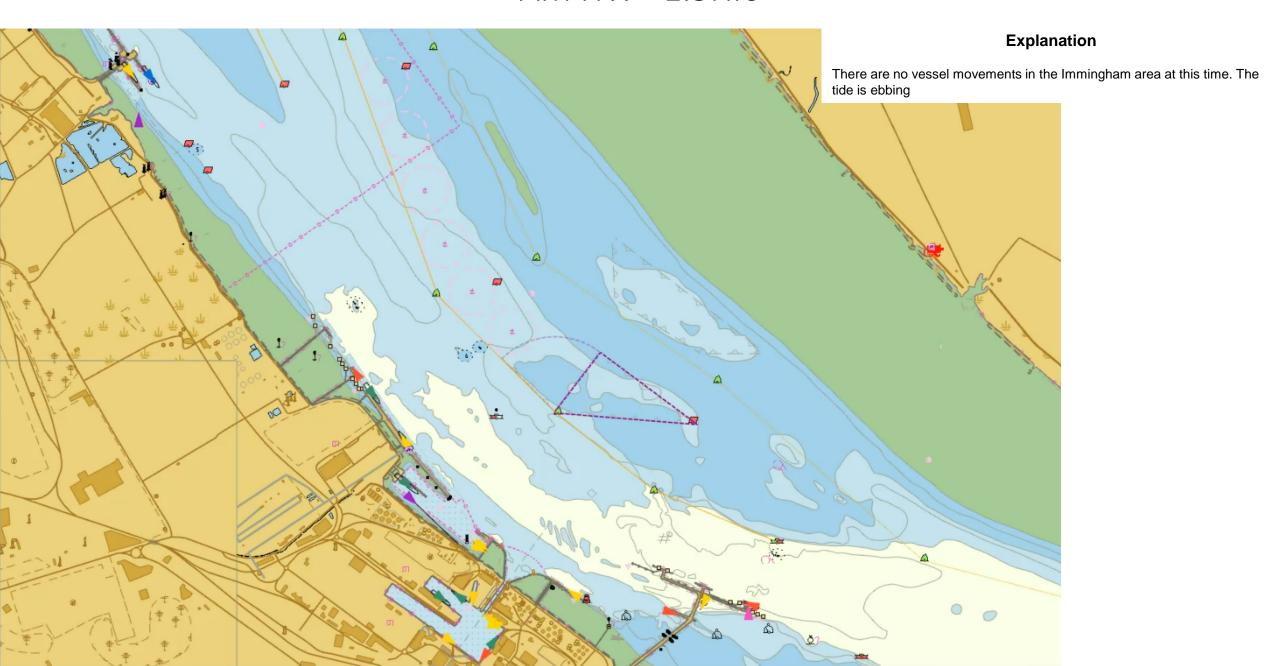
## AM HW +1Hr



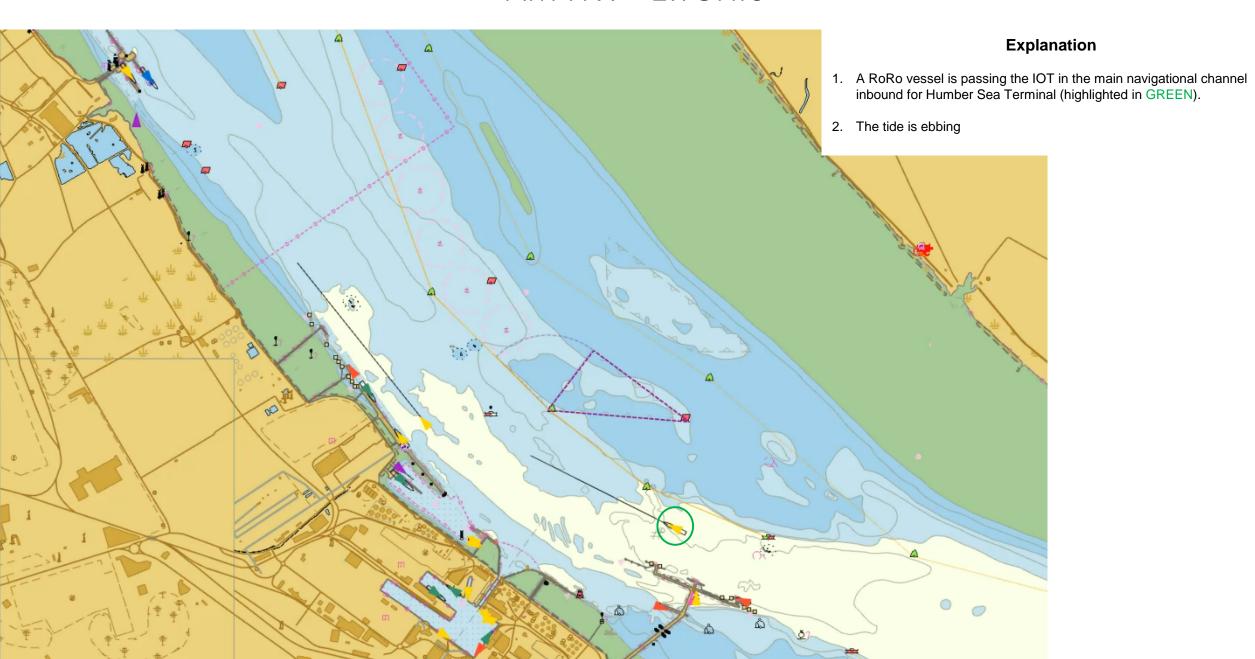
## AM HW +1.25Hrs



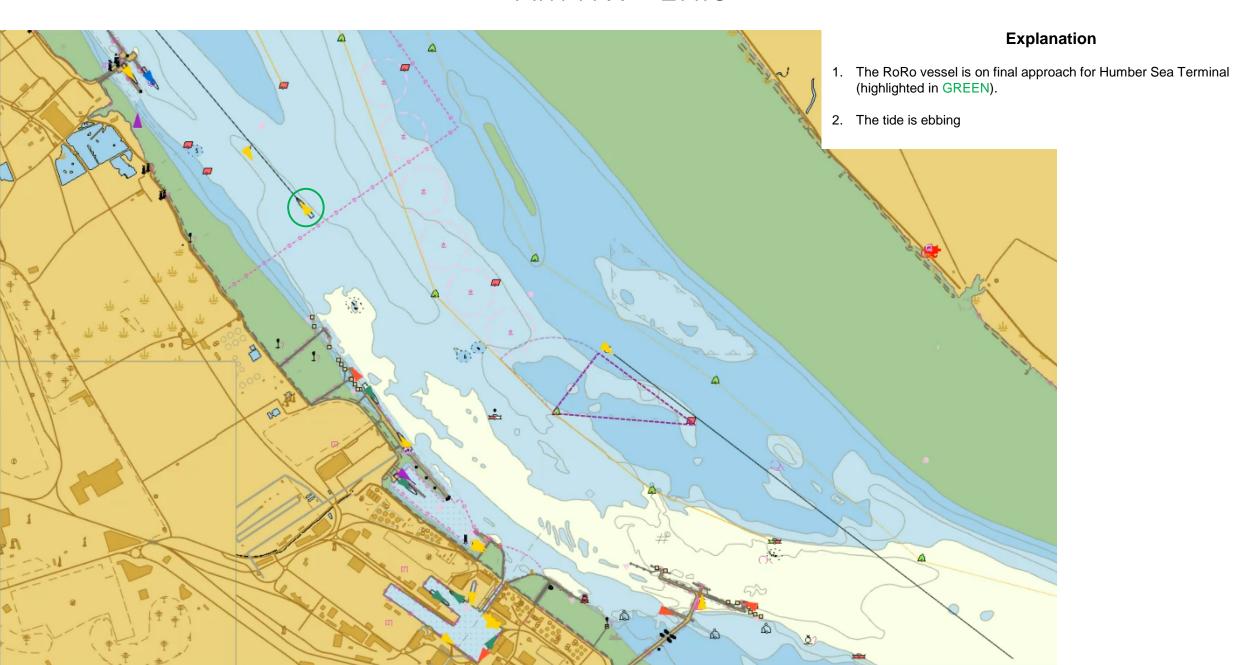
### AM HW +1.5Hrs



### AM HW +1.75Hrs



### AM HW +2Hrs



#### AM HW +2.25Hrs



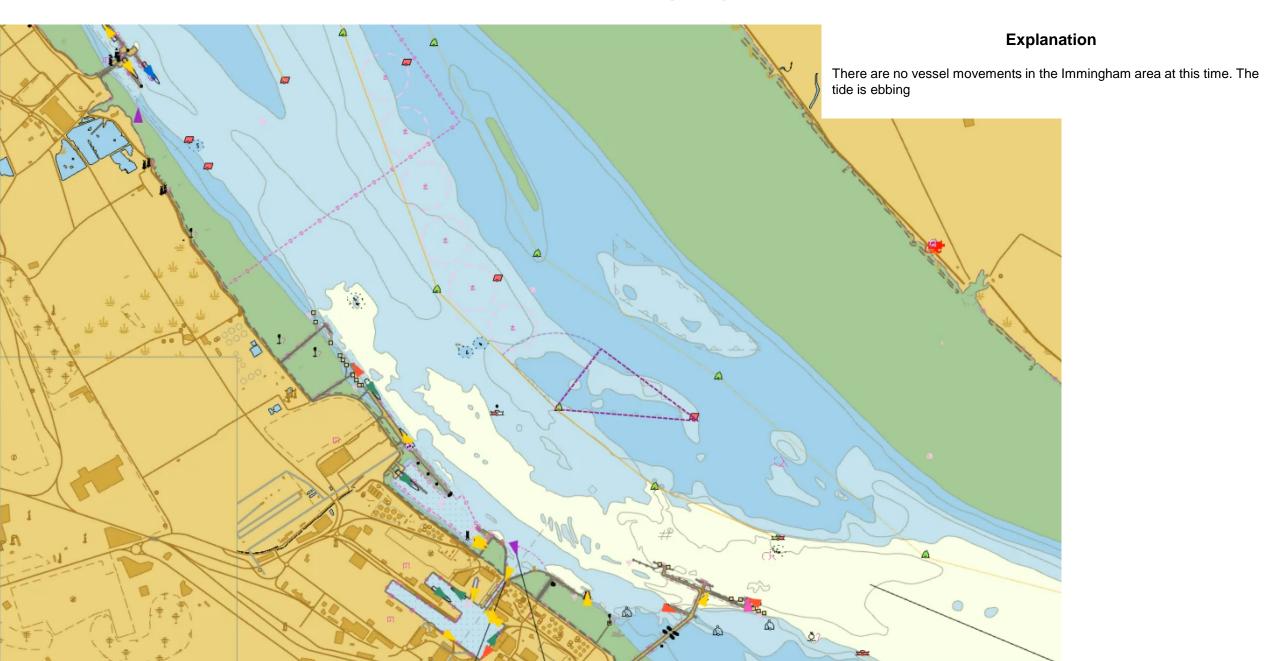
AM HW +2.5Hrs



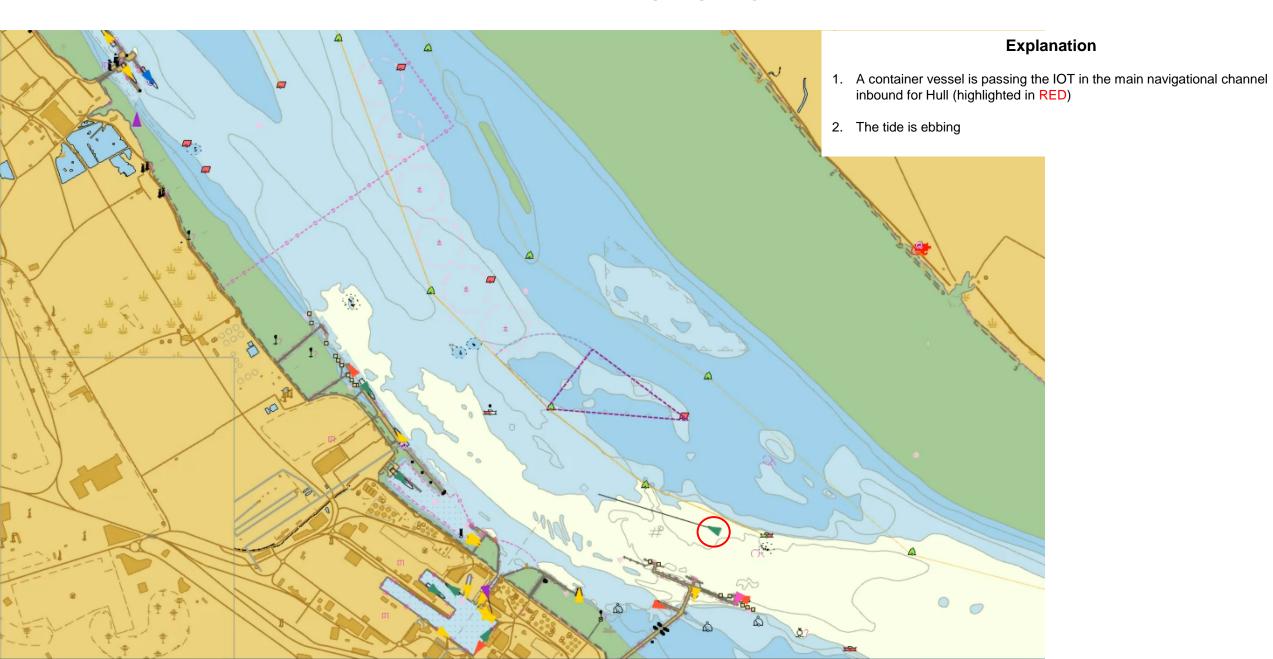
## AM HW +2.75Hrs



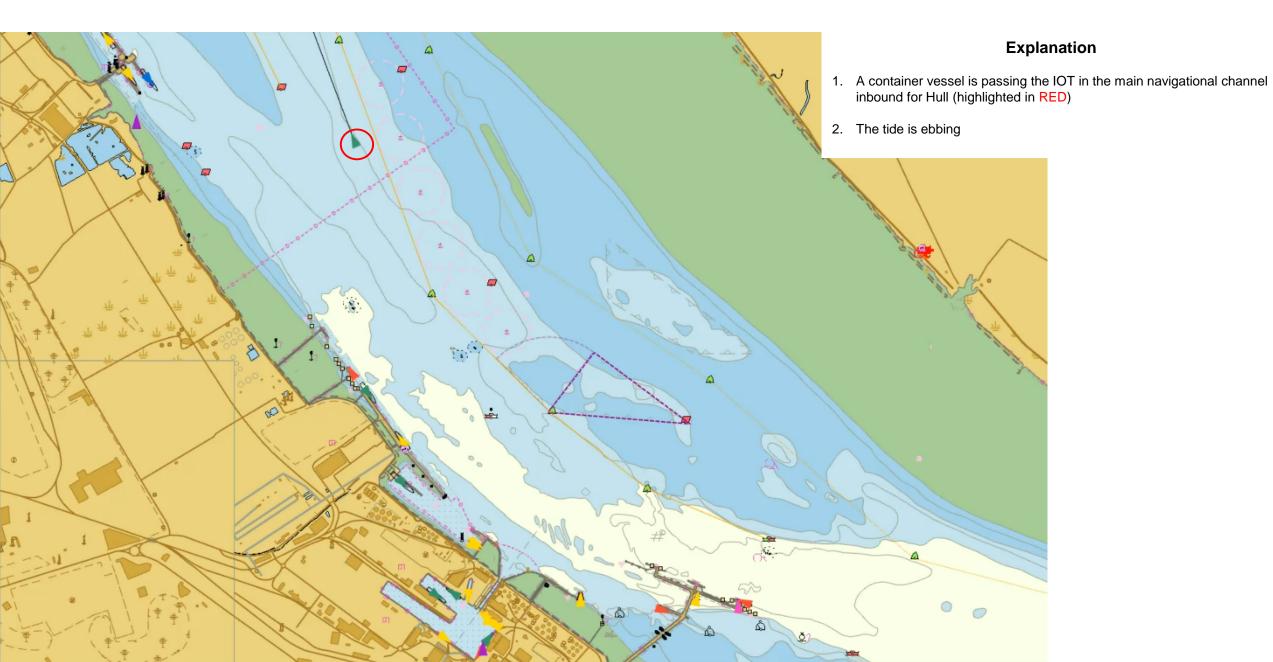
## AM HW +3Hrs



#### AM HW +3.25Hrs



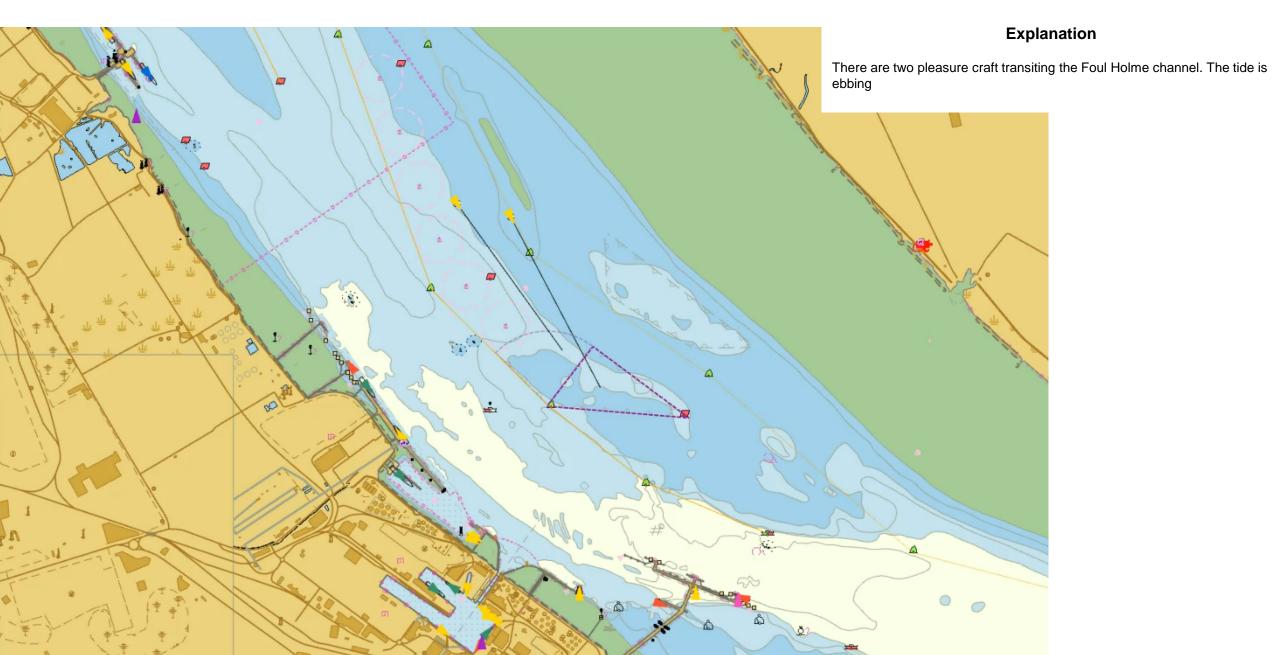
### AM HW +3.5Hrs



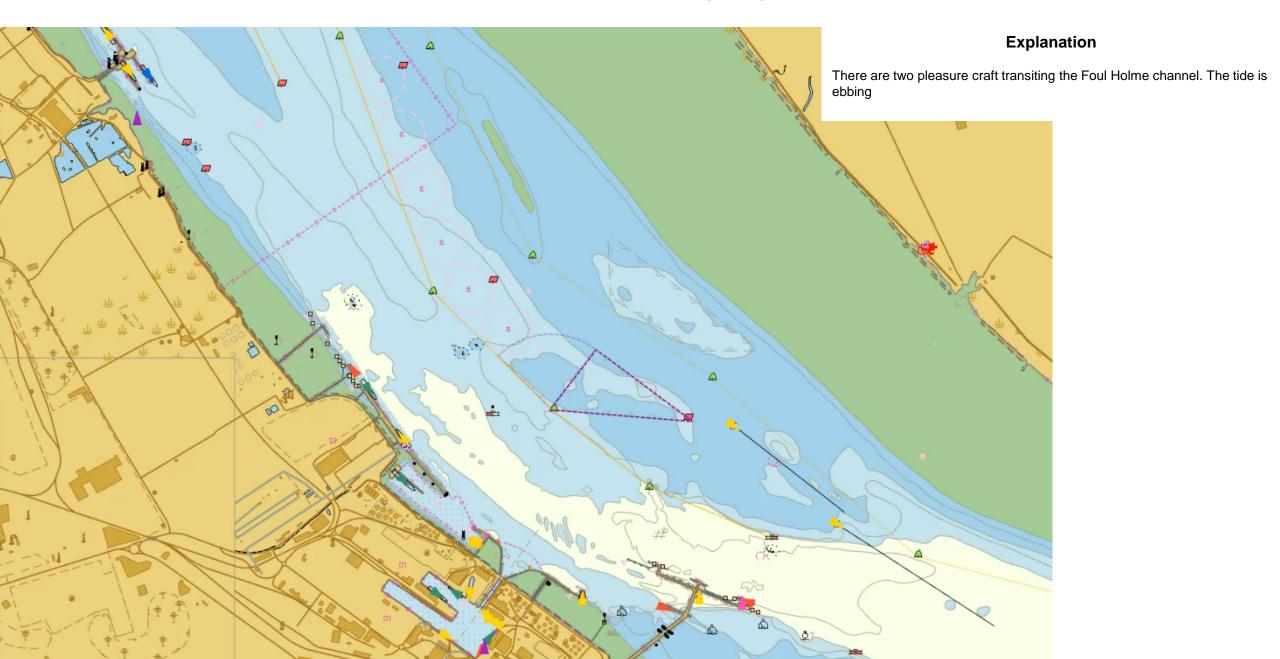
# AM HW +3.75Hrs



## AM HW +4Hrs



### AM HW +4.25Hrs



### AM HW +4.5Hrs

