

# Rampion 2 Wind Farm

## Category 6: Environmental Statement

### Volume 3, Chapter 13: Shipping and navigation – Figures

**Date: August 2023**

**Revision A**

Document Reference: 6.3.13

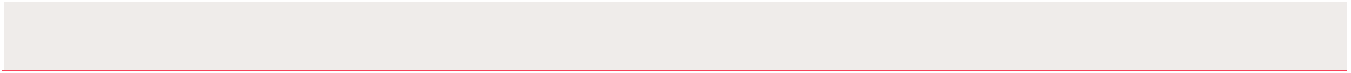
Pursuant to: APFP Regulation 5 (2) (a)

Ecodoc number: 004884758-01



## Document revisions

Revision	Date	Status/reason for issue	Author	Checked by	Approved by
A	04/08/2023	Final for DCO Application	WSP	RED	RED



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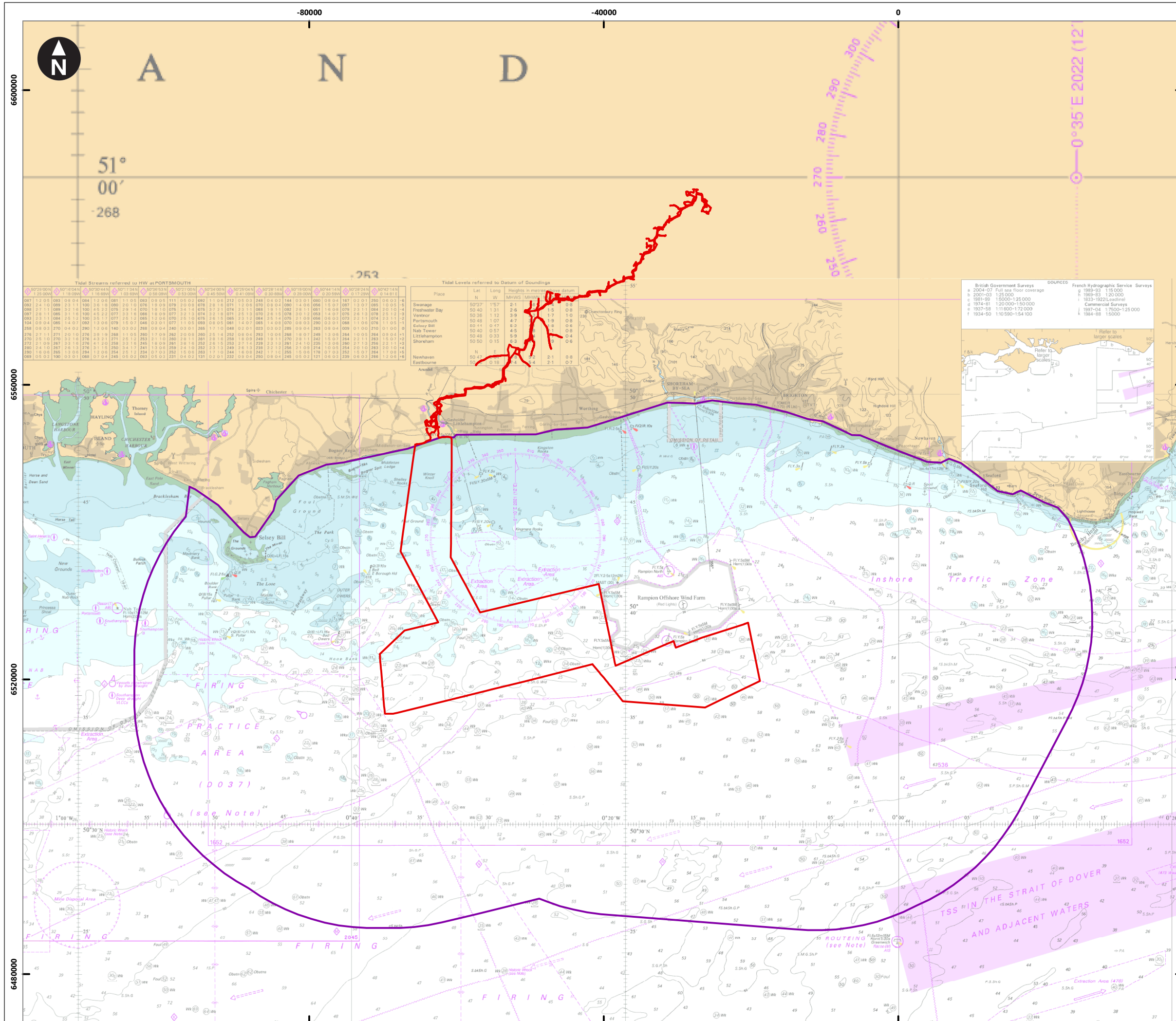
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**Key**

- Proposed DCO Order Limits
- Study area

Tidal Streams referred to HW at PORTSMOUTH

Place	N	W	MHW	Low	High	Low	High
Swinage	50°27'	1°57'	2.1	1.5	0.8	0.8	0.8
Frothwater Bay	50°40'	1°31'	2.6	1.9	1.0	1.0	1.0
Wentnor	50°26'	1°12'	3.9	2.9	1.7	1.7	1.7
Portsmouth	50°48'	1°07'	4.7	3.5	2.0	2.0	2.0
Salisbury	50°41'	0°47'	6.2	4.5	2.5	2.5	2.5
Nab Tower	50°40'	0°57'	4.5	3.3	1.9	1.9	1.9
Littlehampton	50°48'	0°33'	5.9	4.4	2.4	2.4	2.4
Shoreham	50°50'	0°15'	6.3	4.6	2.6	2.6	2.6
Norhaven	50°44'	0°13'	7.1	5.1	2.8	2.8	2.8
Eastbourne	50°44'	0°13'	7.1	5.1	2.8	2.8	2.8

Tidal Levels referred to Datum of Goundings

Place	N	W	MHW	Low	High	Low	High
Swinage	50°27'	1°57'	2.1	1.5	0.8	0.8	0.8
Frothwater Bay	50°40'	1°31'	2.6	1.9	1.0	1.0	1.0
Wentnor	50°26'	1°12'	3.9	2.9	1.7	1.7	1.7
Portsmouth	50°48'	1°07'	4.7	3.5	2.0	2.0	2.0
Salisbury	50°41'	0°47'	6.2	4.5	2.5	2.5	2.5
Nab Tower	50°40'	0°57'	4.5	3.3	1.9	1.9	1.9
Littlehampton	50°48'	0°33'	5.9	4.4	2.4	2.4	2.4
Shoreham	50°50'	0°15'	6.3	4.6	2.6	2.6	2.6
Norhaven	50°44'	0°13'	7.1	5.1	2.8	2.8	2.8
Eastbourne	50°44'	0°13'	7.1	5.1	2.8	2.8	2.8

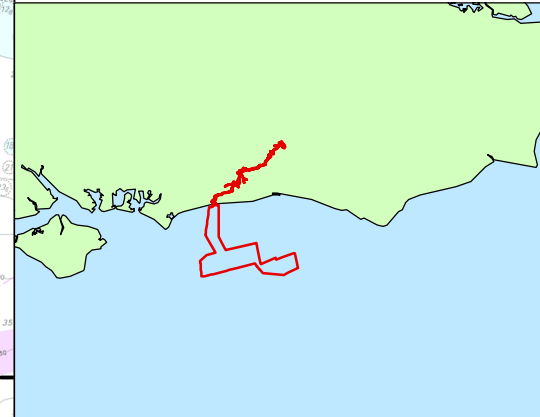
**SOURCES**

British Government Surveys

- a 2004-07 Full sea floor coverage
- b 2001-03 1:25,000
- c 1991-99 1:50,000-1:25,000
- d 1974-81 1:20,000-1:50,000
- e 1937-58 1:11,600-1:72,000
- f 1934-50 1:10,500-1:54,100

French Hydrographic Service Surveys

- g 1989-93 1:10,000
- h 1989-93 1:20,000
- i 1833-1922 Leadline
- j Commercial Surveys
- k 1997-04 1:75,000-1:25,000
- l 1984-88 1:50,000



Kilometres

0 2.5 5 10 15 20

1:500,000

WGS 1984 World Mercator Mercator

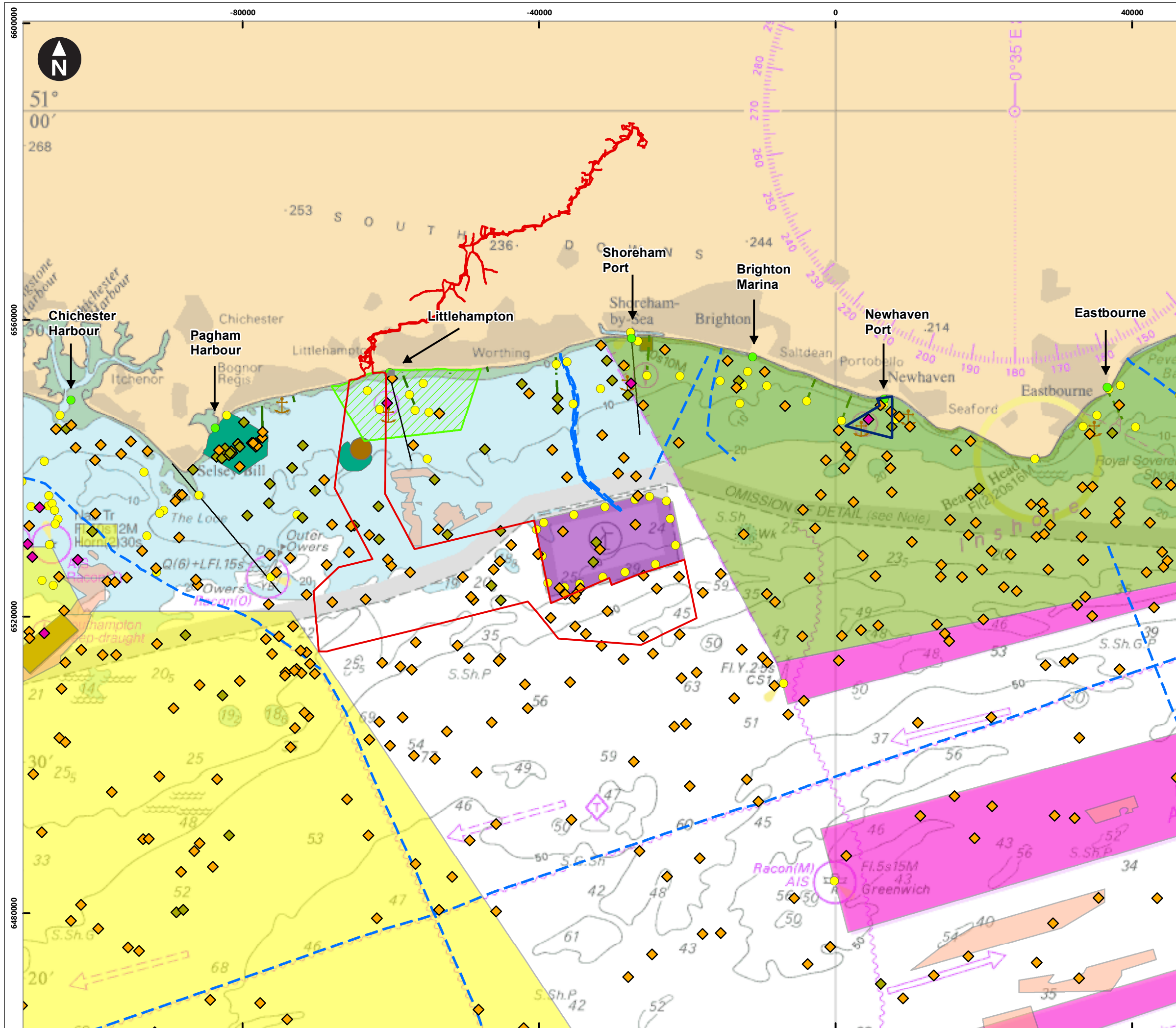
Rampion Extension Development

Rampion 2 Offshore Wind Farm

Figure 13.1 Shipping and navigation study area

Environmental Statement

System Identifier:		Version:	
42285-GOBE-ES-OF-FG-16-9401		1.2	
Company:	Drawn By:	Chk/Prvrd:	Drawn Date:
ANATEC	DS	JM	07/08/2023
Status:	FINAL		



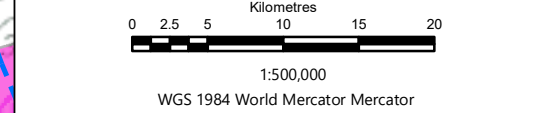
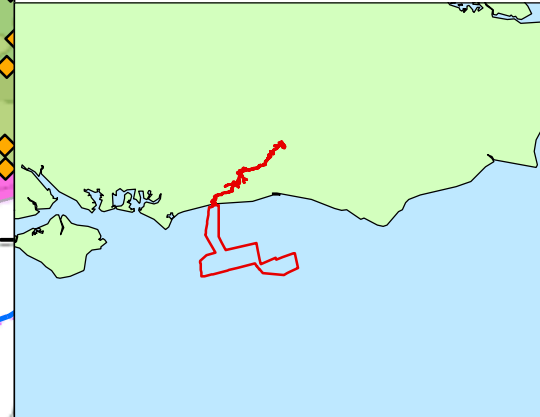
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**Key**

- Proposed DCO Order Limits
- Spoil ground
- Foul ground

**Navigational features**

- Port/harbour
- ◆ Pilot boarding station
- ⚓ Anchorage
- Rampion 1
- Marine aggregate dredging area
- TSS
- Inshore traffic zone
- Firing practice area
- — — Subsea cable
- — — Pipeline
- Aid to navigation
- ◆ Charted wreck
- ◆ Charted obstruction
- Leading line
- Littlehampton CHA
- Littlehampton SHA
- Newhaven limits

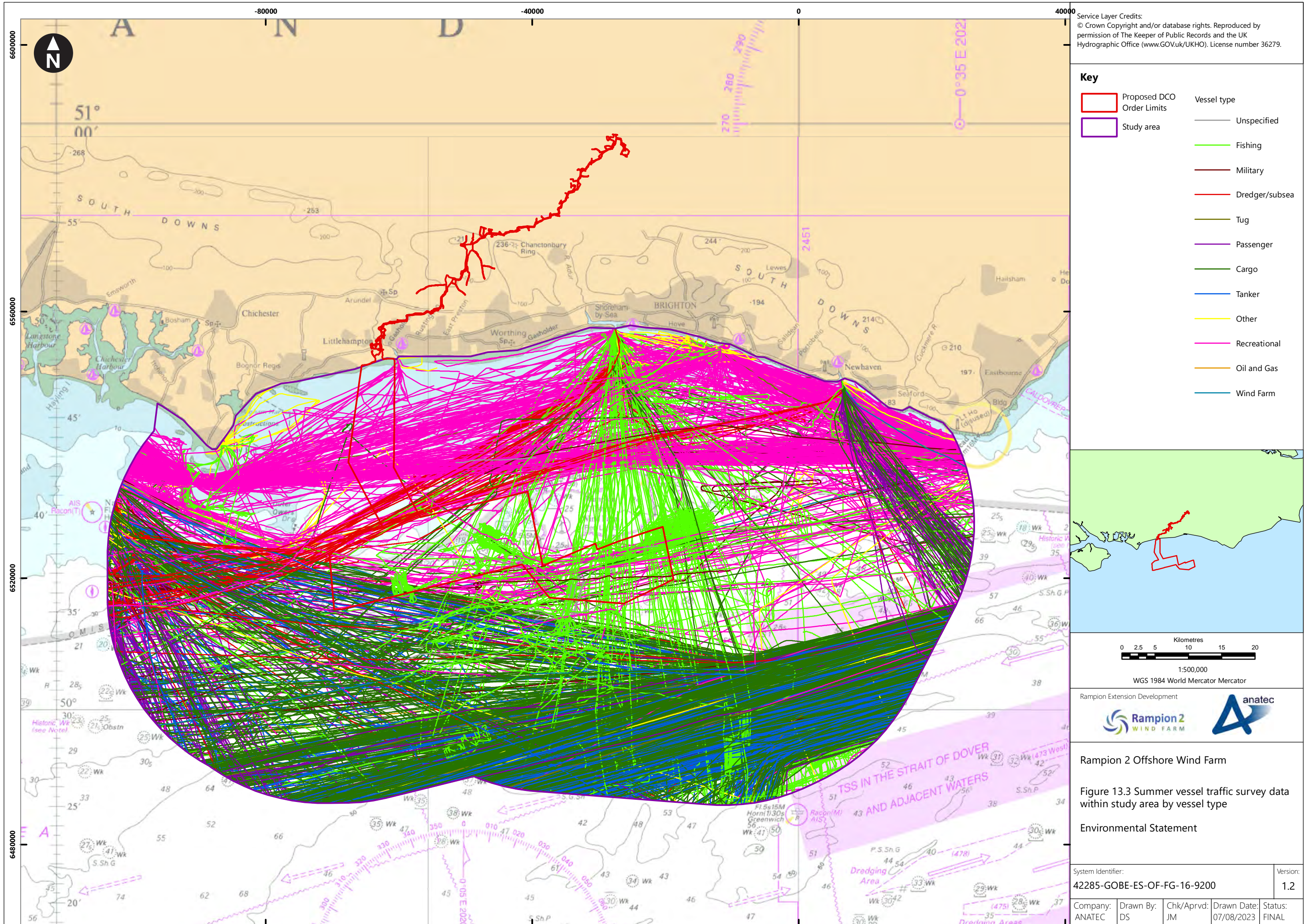


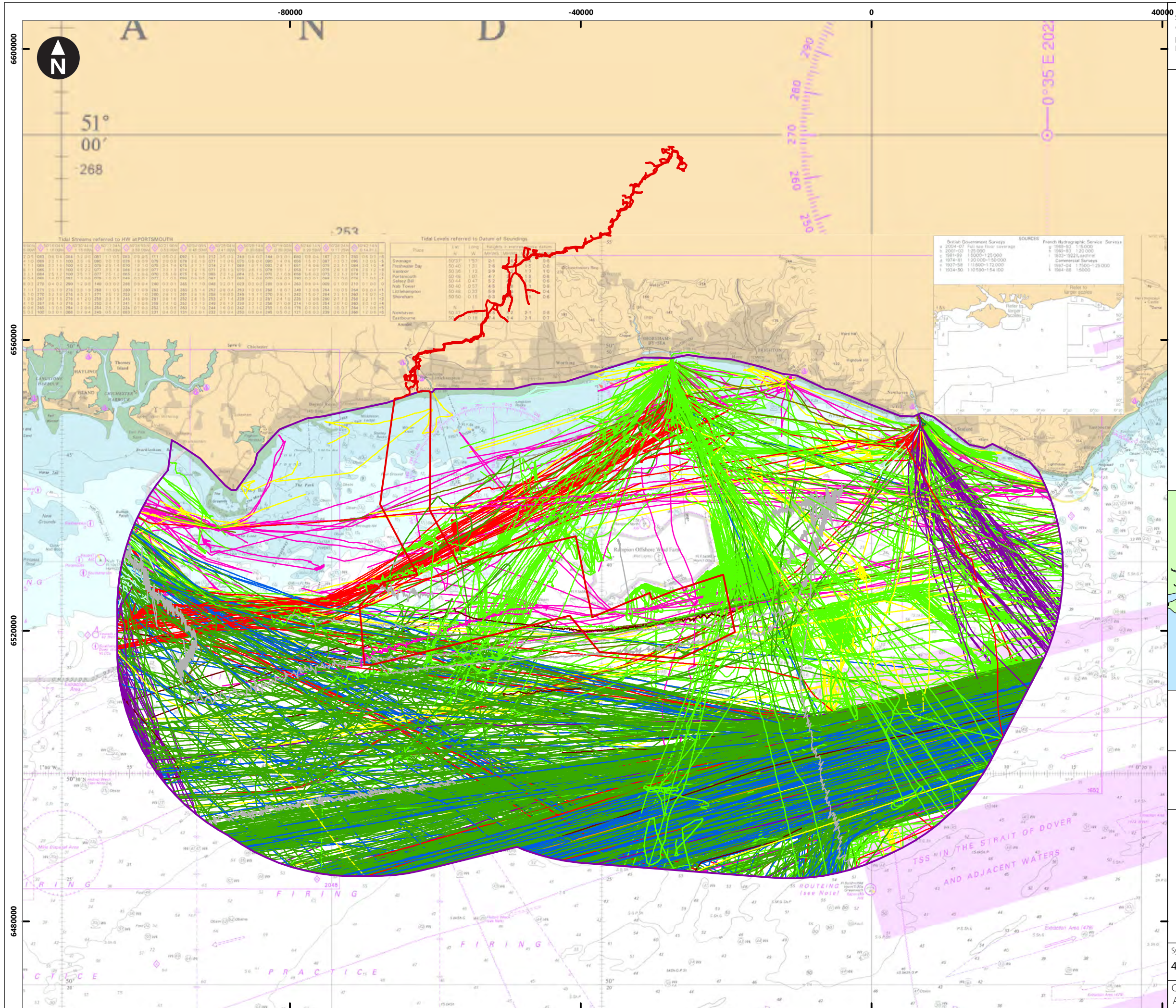
Rampion Extension Development

Rampion 2 Offshore Wind Farm  
 Figure 13.2 Overview of navigational features  
 Environmental Statement

System Identifier: 42285-GOBE-ES-OF-FG-16-8126	Version: 1.2
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Company: ANATEC	Drawn By: DS	Chk/Prvrd: JM	Drawn Date: 07/08/2023	Status: FINAL
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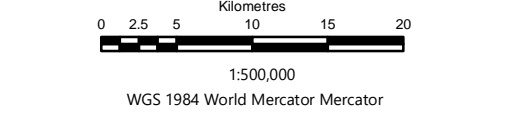
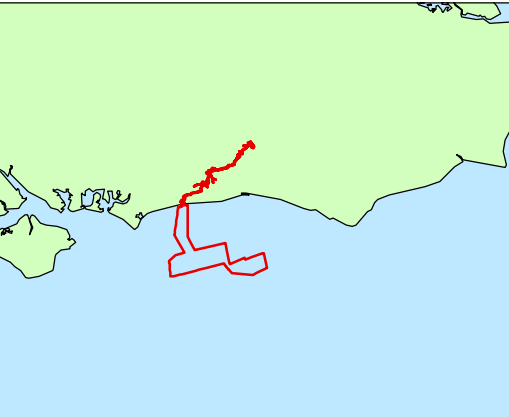
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**Key**

	Proposed DCO		Vessel type
	Order Limits		Unspecified
	Study area		Fishing
			Military
			Dredger/subsea
			Tug
			Passenger
			Cargo
			Tanker
			Other
			Recreational
			Old and gas
			Wind farm
			Pilot

**SOURCES**

British Government Surveys a 2004-07 Full sea floor coverage b 2000-03 1:25,000 c 1981-99 1:50,000-1:25,000 d 1974-81 1:25,000-1:50,000 e 1967-68 1:10,000-1:25,000 f 1954-59 1:10,000-1:50,000	French Hydrographic Service Surveys a 1988-97 1:25,000 b 1980-83 1:25,000 c 1933-1922 Leadline d 1914-61 1:25,000-1:50,000 e 1907-04 1:75,000-1:25,000 f 1884-88 1:50,000
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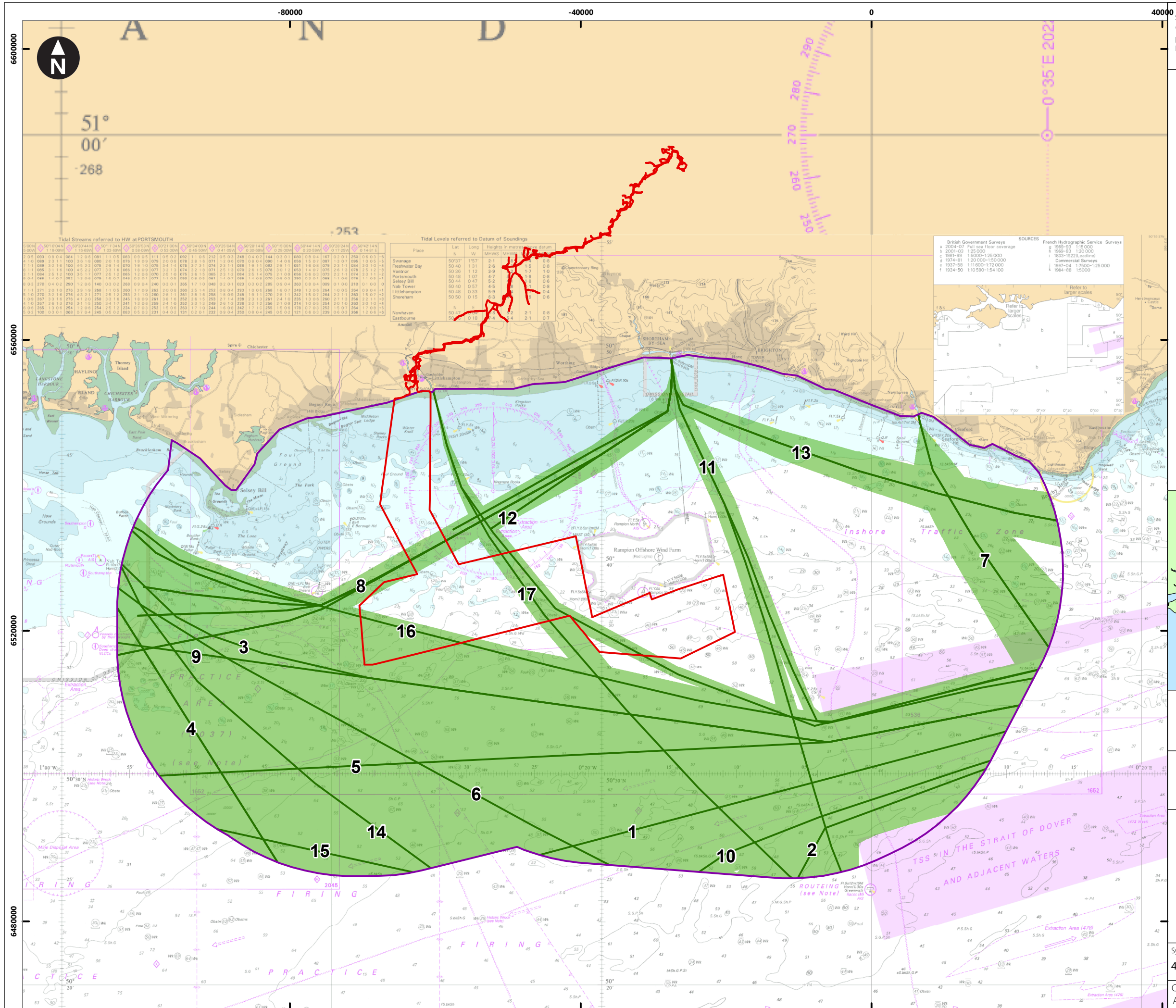
Rampion Extension Development

Rampion 2 Offshore Wind Farm  
 Figure 13.4 Winter vessel traffic survey data within study area by vessel type  
 Environmental Statement

System Identifier: 42285-GOBE-ES-OF-FG-16-3595  
 Version: 1.2

Company: ANATEC	Drawn By: DS	Chk/Prvrd: JM	Drawn Date: 07/08/2023	Status: FINAL
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**Key**

- Proposed DCO Order Limits
- Study area
- Pre wind farm main routes
- Main position
- 90th percentile

Tidal Streams referred to HW at PORTSMOUTH

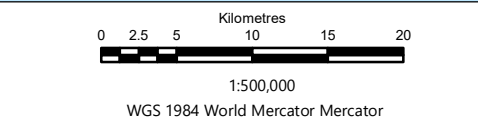
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Tidal Levels referred to Datum of Soundings

Place	Lat	Long	Height in metres above datum
Swanage	50°27'	1°37'	2.1
Freshwater Bay	50°40'	1°31'	2.6
Venator	50°38'	1°12'	3.9
Portsmouth	50°48'	1°07'	4.7
Selsey Bill	50°44'	0°47'	5.2
Nab Tower	50°40'	0°57'	4.5
Littlehampton	50°48'	0°33'	5.9
Shoreham	50°50'	0°15'	6.3
Newhaven	50°4	0°15'	7.4
Eastbourne	50°4	0°15'	7.4

SOURCES

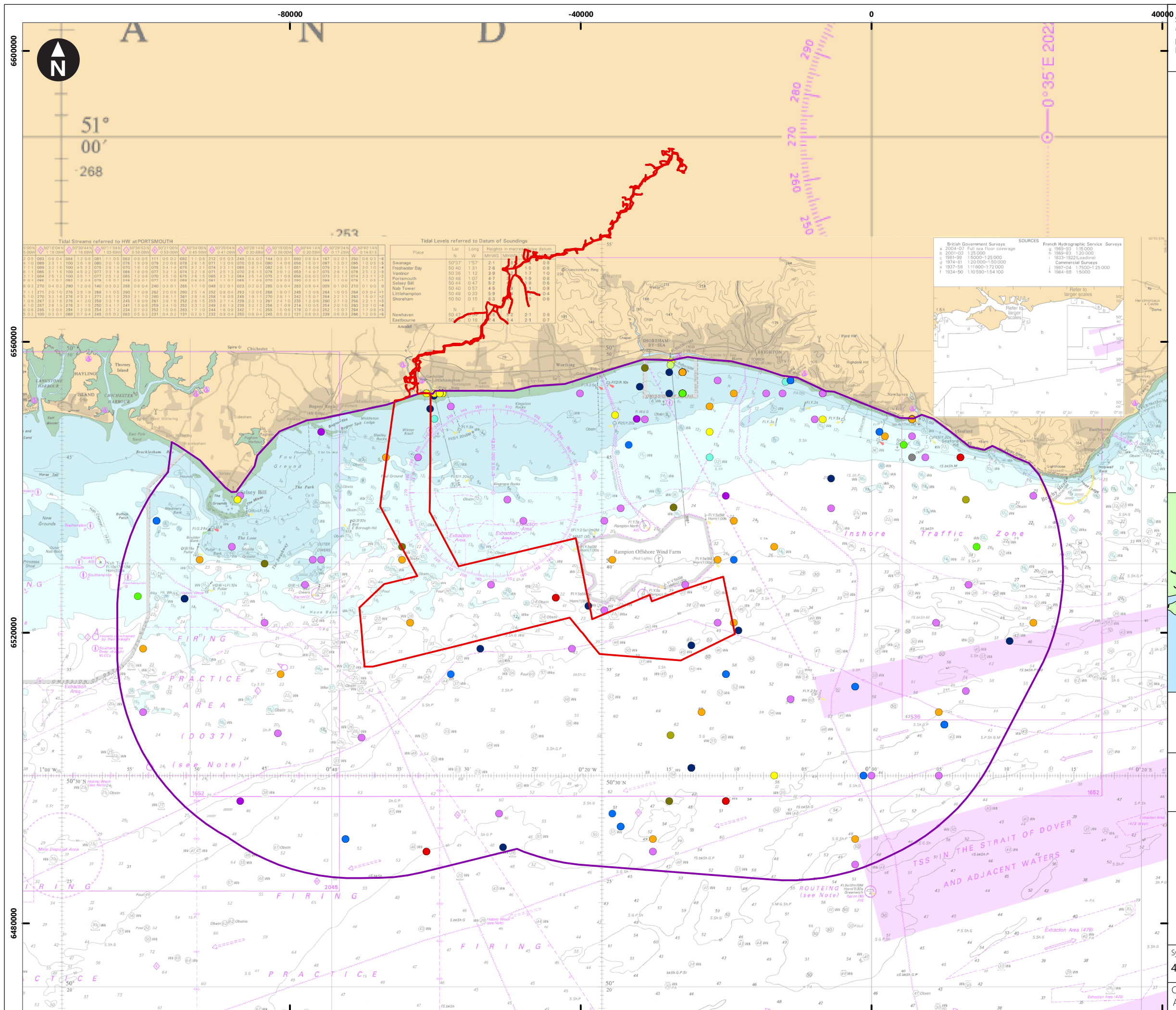
British Government Surveys	French Hydrographic Service Surveys
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b 2001-03 1:25,000	h 1969-83 1:20,000
c 1981-90 1:50,000-1:25,000	i 1833-1922 (Leadline) Commercial Surveys
d 1974-81 1:20,000-1:50,000	j 1937-58 1:110,000-1:72,000
e 1937-58 1:110,000-1:72,000	k 1997-04 1:75,000-1:25,000
f 1934-50 1:10,500-1:54,100	l 1984-88 1:50,000



Rampion Extension Development

Rampion 2 Offshore Wind Farm  
 Figure 13.5 Main commercial routes and 90th percentiles within study area  
 Environmental Statement

System Identifier: 42285-GOBE-ES-OF-FG-16-4470		Version: 1.2
Company: ANATEC	Drawn By: DS	Chk/Prvrd: JM
Drawn Date: 07/08/2023	Status: FINAL	



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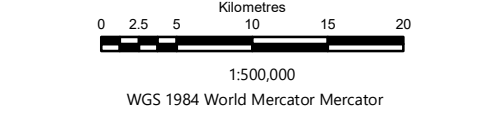
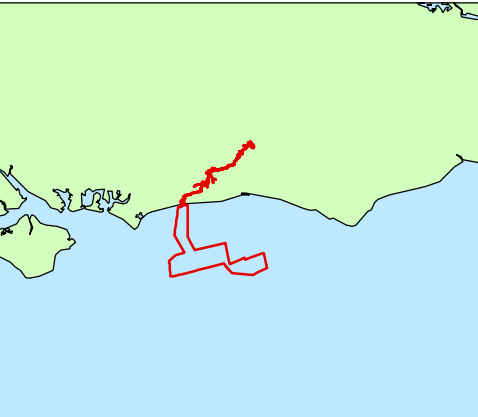
- Proposed DCO Order Limits
- Study area

**MAIB incident type**

- Accident to Person
- Collision
- Contact
- Damage / loss of equipment
- Fire/Explosion
- Floating object
- Flooding/Foundering
- Grounding
- Hazardous Incident
- Loss of control
- Machinery Failure
- Person Overboard
- Pollution

**Tidal Streams referred to HW at PORTSMOUTH**

Place	Lat	Long	Height in metres	Time datum
Swanage	50°27' 18.7"	2°1' 0.8"	1.5	0.8
Freshwater Bay	50°40' 1.31"	2°6' 1.5"	1.5	0.8
Venator	50°38' 1.2"	3°9' 1.7"	1.7	1.0
Portsmouth	50°48' 1.07"	4°7' 1.9"	0.8	0.8
Safety Hill	50°44' 0.47"	5°2' 0.6"	0.6	0.8
Hubb Tower	50°40' 0.57"	4.5"	0.6	0.8
Litchamption	50°48' 0.33"	5.9"	0.4	0.8
Shoreham	50°50' 0.15"	6.3"	0.6	0.8
Newhaven	50°4' 0.15"	2.1"	0.8	0.8
Eastbourne	50°4' 0.15"	2.1"	0.8	0.8
Amble	50°4' 0.15"	2.1"	0.8	0.8



Rampion Extension Development

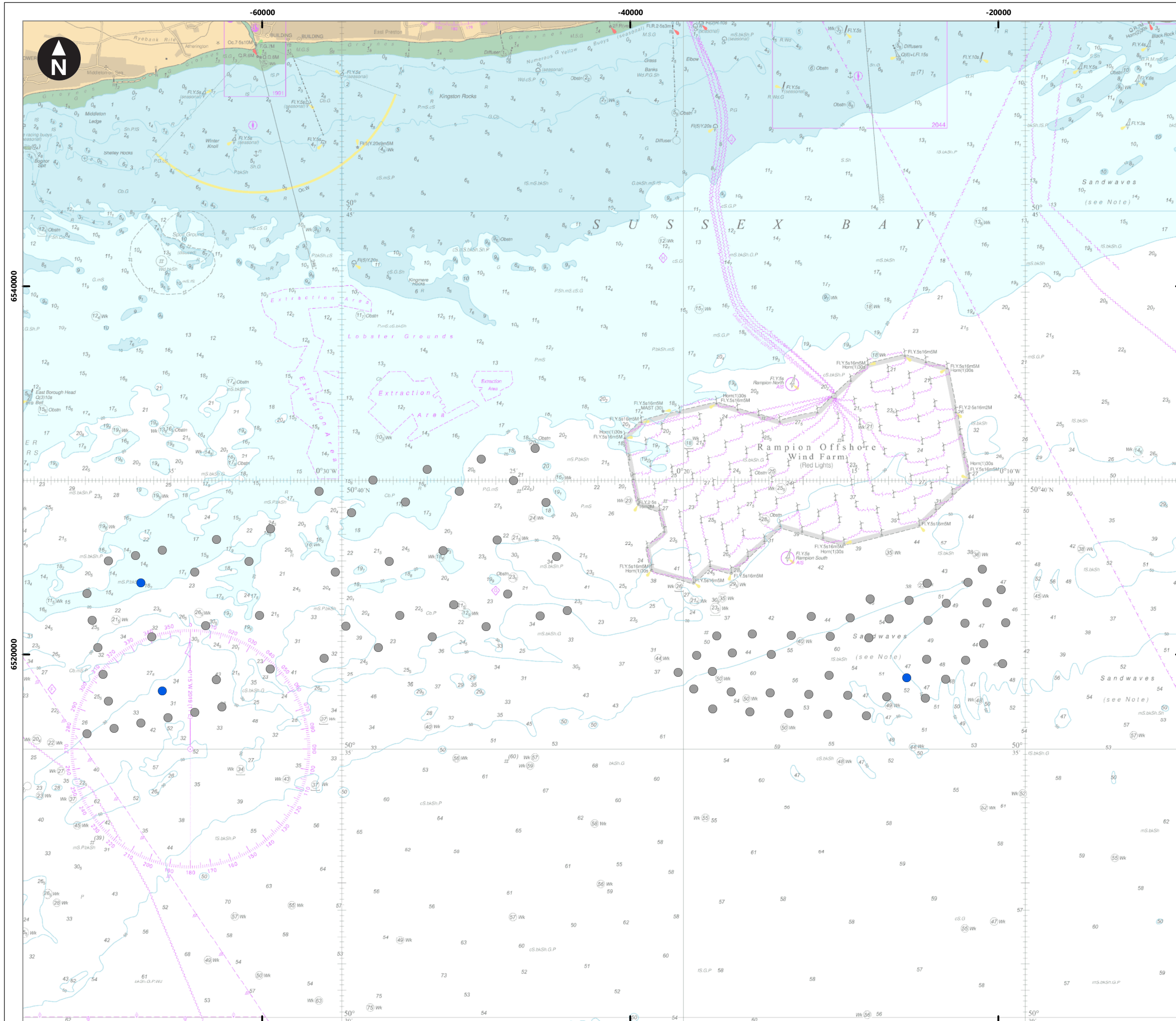
Rampion 2 Offshore Wind Farm  
 Figure 13.6 MAIB incidents within study area by incident type

Environmental Statement

System Identifier:  
 42285-GOBE-ES-OF-FG-16-7898

Version:  
 1.2

Company: ANATEC	Drawn By: DS	Chk/Prvrd: JM	Drawn Date: 07/08/2023	Status: FINAL
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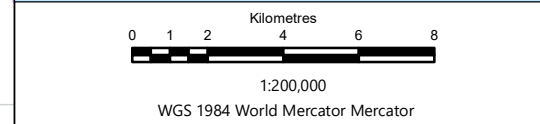
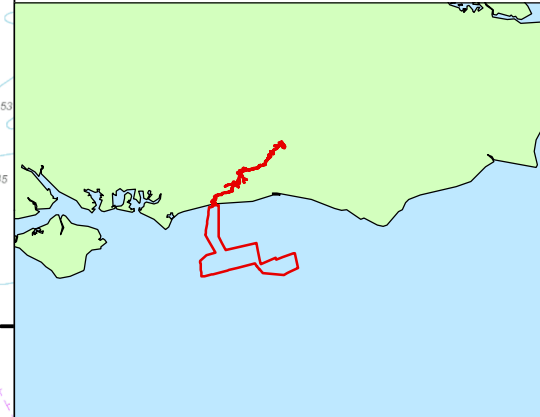


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**Key**

Indicative layout

- WTG
- Offshore substation



Rampion Extension Development

Rampion 2 Offshore Wind Farm

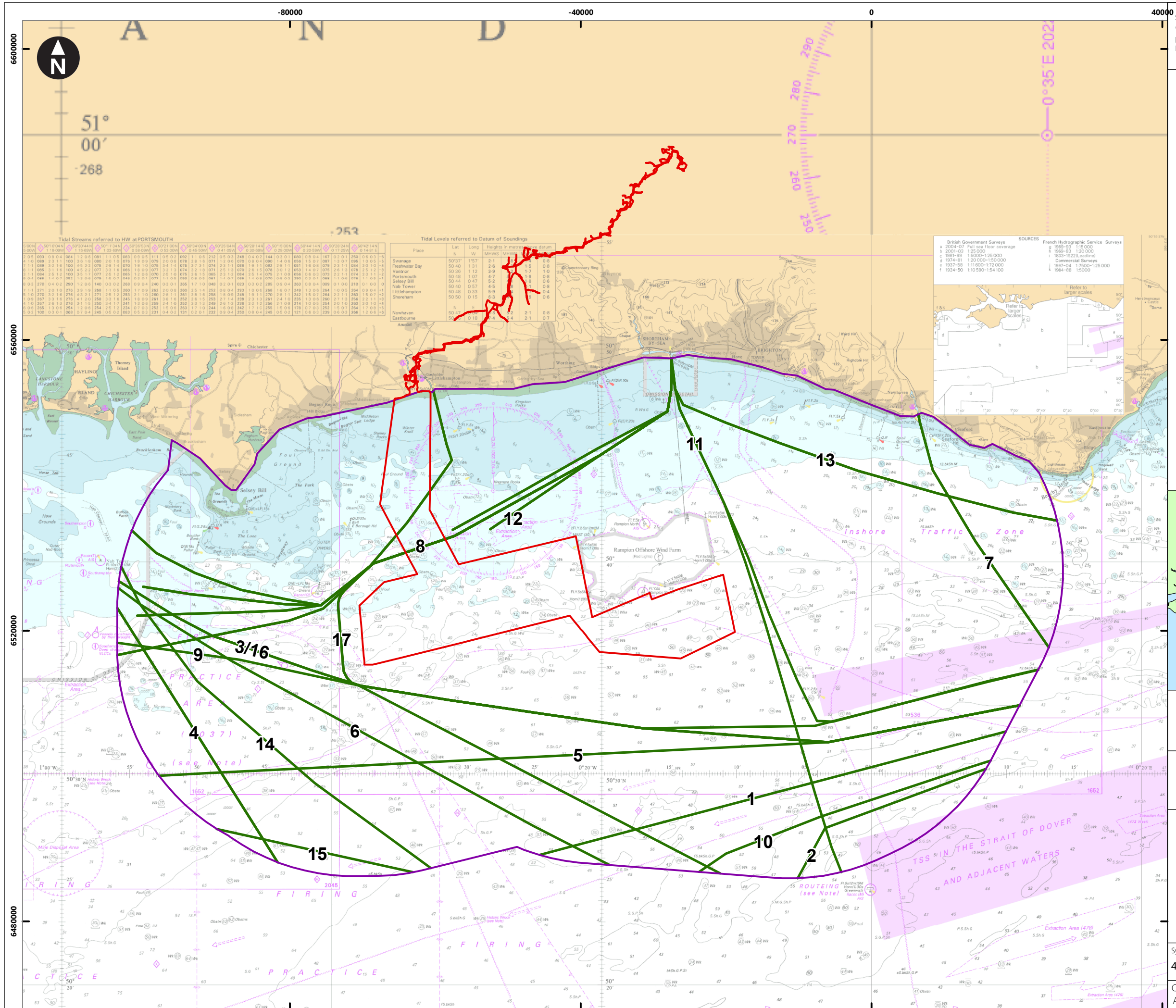
Figure 13.7 MDS layout for shipping and navigation

Environmental Statement

System Identifier: 42285-GOBE-ES-OF-FG-16-1737

Version: 1.2

Company: ANATEC	Drawn By: DS	Chk/Prvrd: JM	Drawn Date: 07/08/2023	Status: FINAL
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**Key**

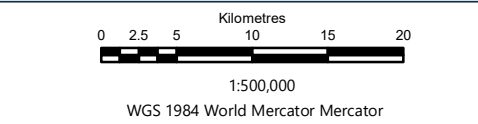
- Proposed DCO Order Limits
- Study area
- Main routes post wind farm
- Mean position

Tidal Streams referred to HW at PORTSMOUTH

Place	Lat	Long	Height in metres	Time datum
Swanage	50°27' 18.7"	2°1' 1.5" E	1.5	0.8
Freshwater Bay	50°40' 1.31"	2°6' 1.5" E	1.5	0.8
Venator	50°38' 1.2	3°9' 1.7	1.0	1.0
Portsmouth	50°48' 1.07	4.7	1.9	0.8
Safety Hill	50°44' 0.47	5.2	1.0	0.8
Hubb Tower	50°40' 0.57	4.8	0.8	0.8
Litchamption	50°48' 0.33	5.9	0.4	0.4
Shoreham	50°50' 0.15	6.3	0.6	0.6
Newhaven	50°4' 0.15	4.4	2.1	0.8
Eastbourne	50°4' 0.15	4.4	2.1	0.8

Tidal Levels referred to Datum of Soundings

Place	Lat	Long	Height in metres	Time datum
Swanage	50°27' 18.7"	2°1' 1.5" E	1.5	0.8
Freshwater Bay	50°40' 1.31"	2°6' 1.5" E	1.5	0.8
Venator	50°38' 1.2	3°9' 1.7	1.0	1.0
Portsmouth	50°48' 1.07	4.7	1.9	0.8
Safety Hill	50°44' 0.47	5.2	1.0	0.8
Hubb Tower	50°40' 0.57	4.8	0.8	0.8
Litchamption	50°48' 0.33	5.9	0.4	0.4
Shoreham	50°50' 0.15	6.3	0.6	0.6
Newhaven	50°4' 0.15	4.4	2.1	0.8
Eastbourne	50°4' 0.15	4.4	2.1	0.8



Rampion Extension Development

Rampion 2 Offshore Wind Farm  
 Figure 13.8 Post wind farm main commercial routes within study area  
 Environmental Statement

System Identifier: 42285-GOBE-ES-OF-FG-16-9350  
 Version: 1.2

Company: ANATEC	Drawn By: DS	Chk/Prvrd: JM	Drawn Date: 07/08/2023	Status: FINAL
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