

Rampion 2 Wind Farm

Category 6:

Environmental Statement

Volume 3, Chapter 15: Seascape, landscape and visual impact assessment (Part 1 of 8)

Date: August 2023

Revision A

Document Reference: 6.3.15

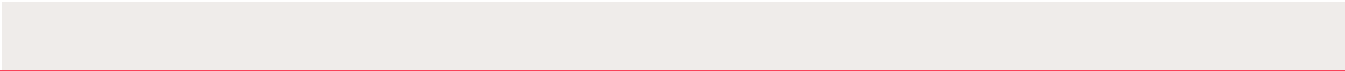
Pursuant to: APFP Regulation 5 (2) (a)

Ecodoc number: 004884762-01



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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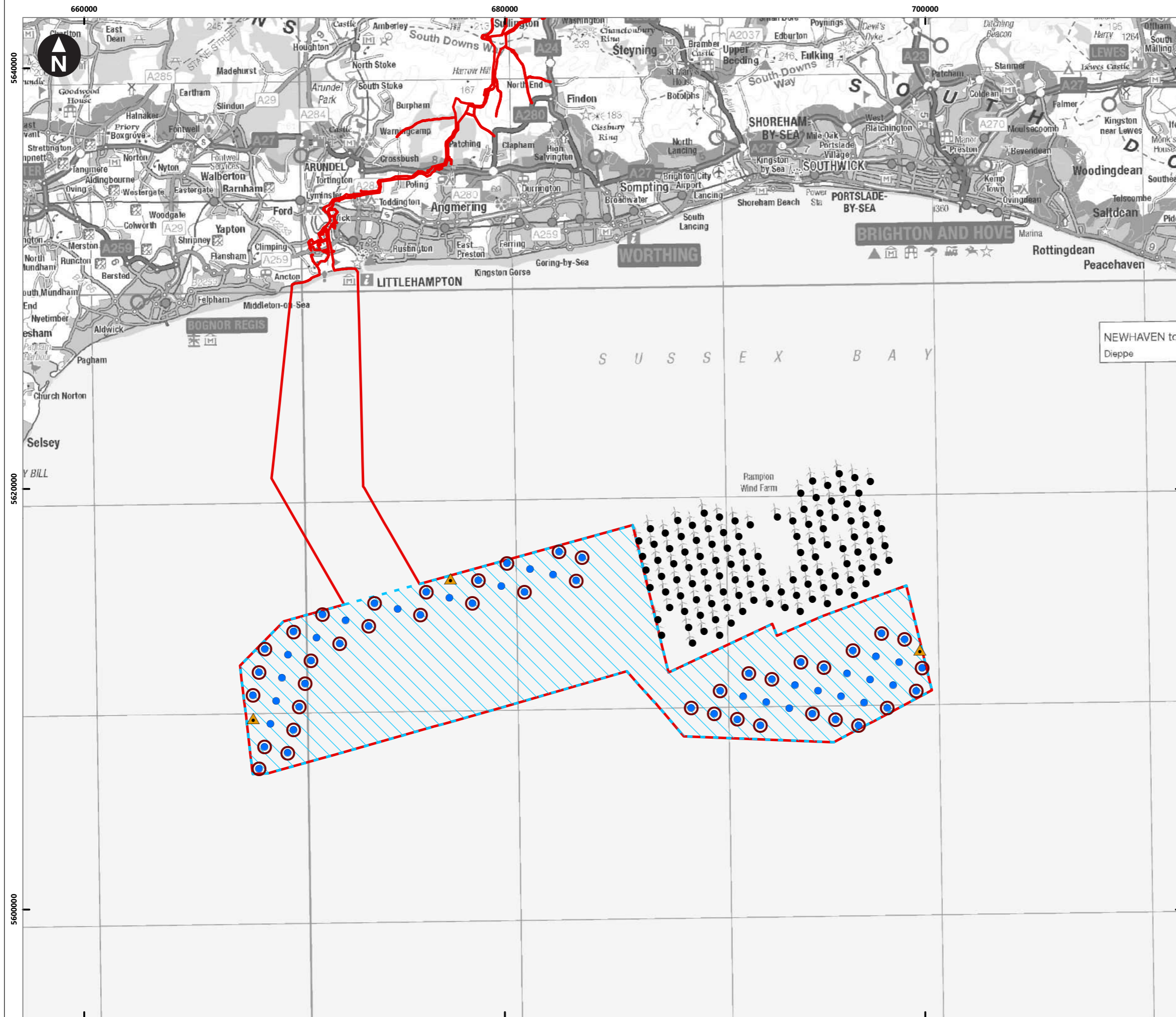
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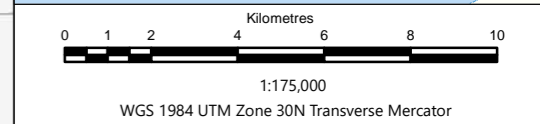
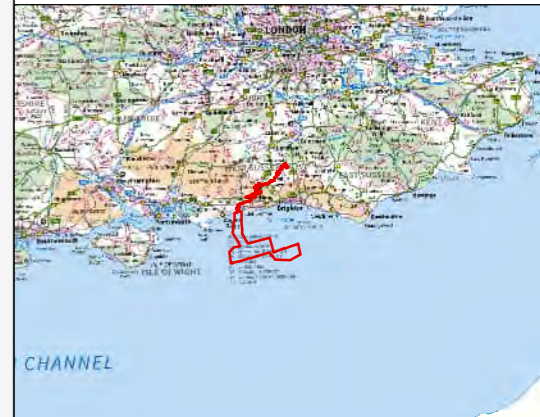
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Key

- Proposed DCO Order Limits
- Offshore Array Area
- Rampion 2 WTG
- Proposed WTG assumed to be lit with aviation lights
- ▲ Offshore substation
- Operational Rampion 1 WTG

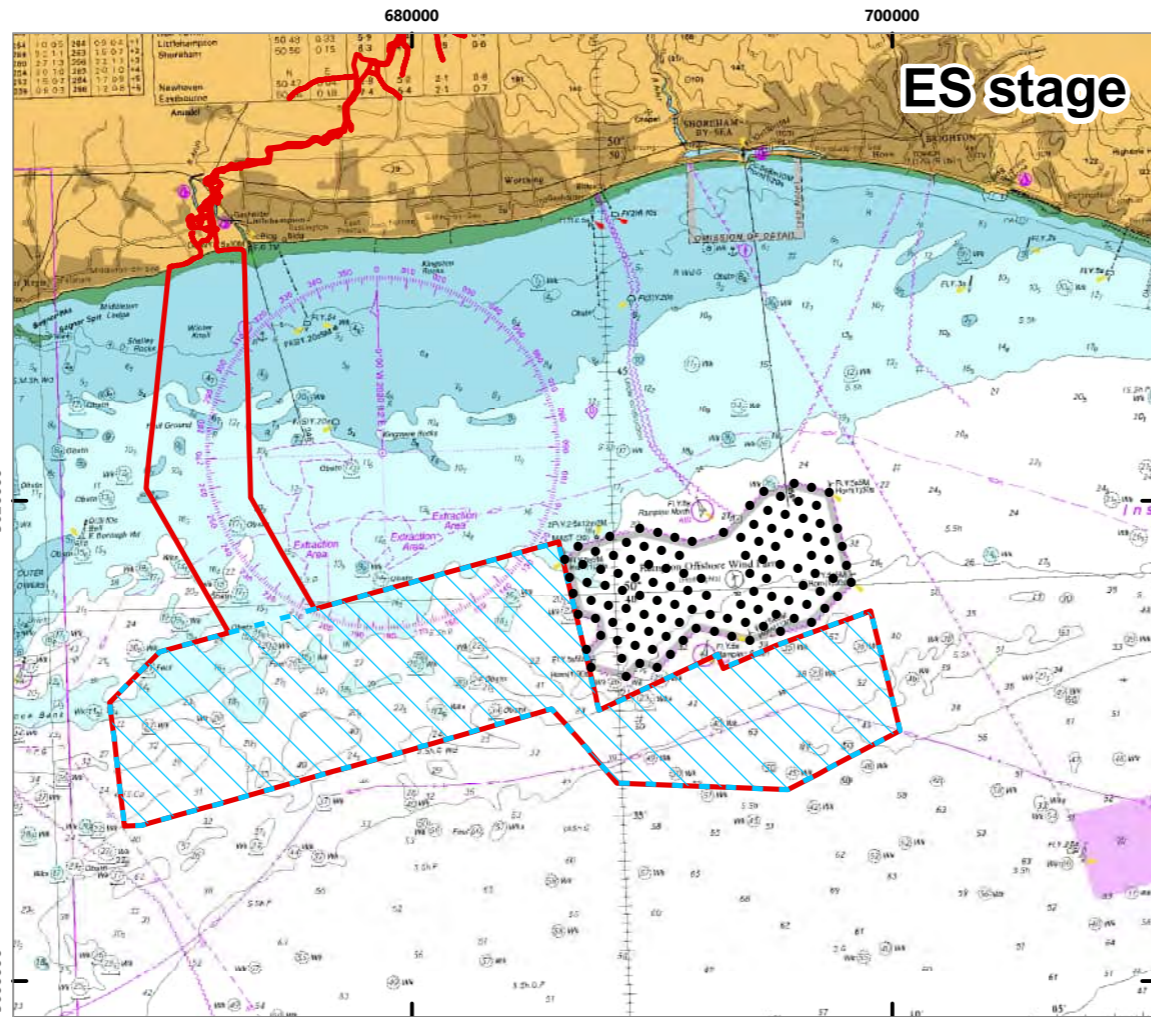
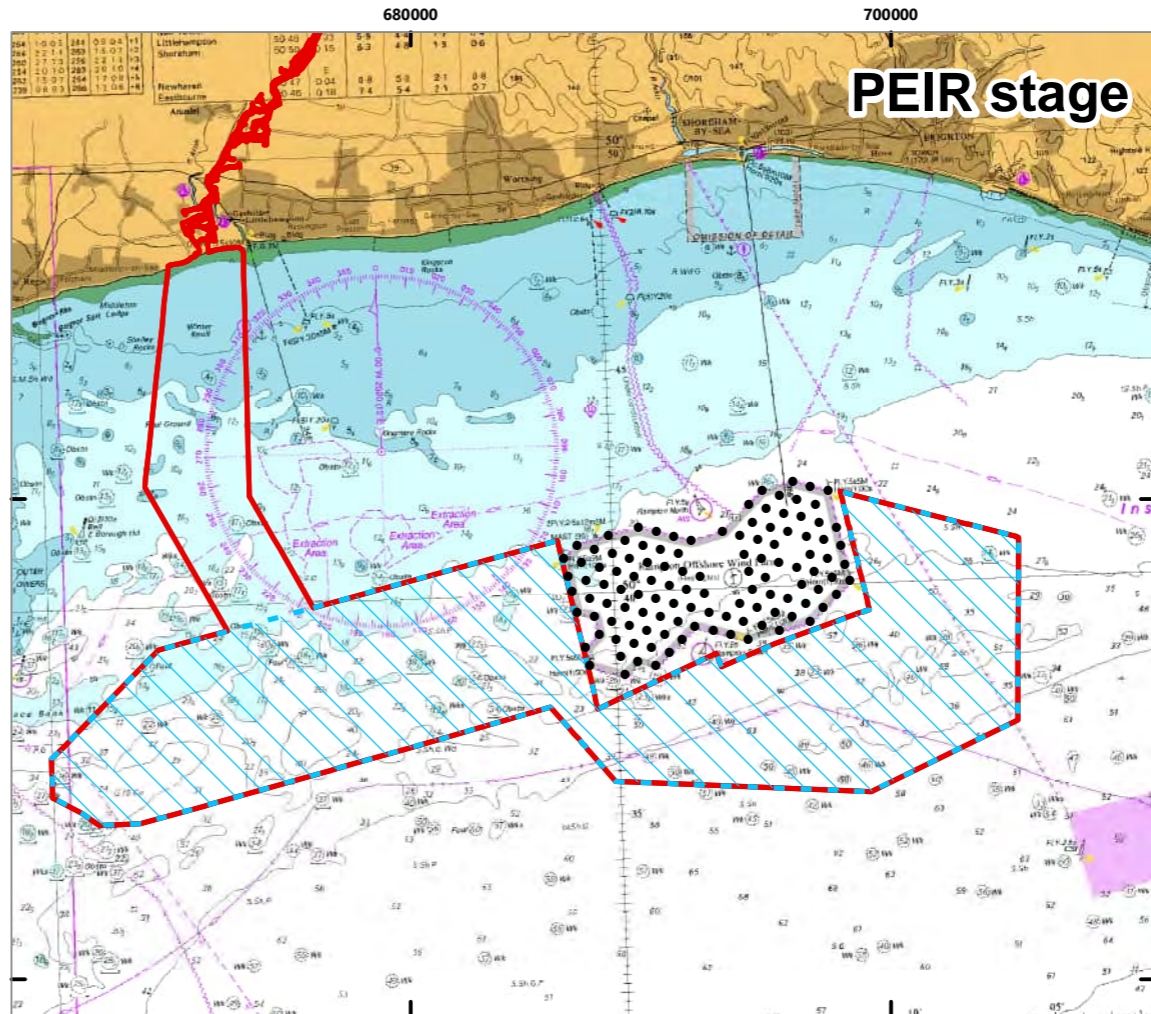
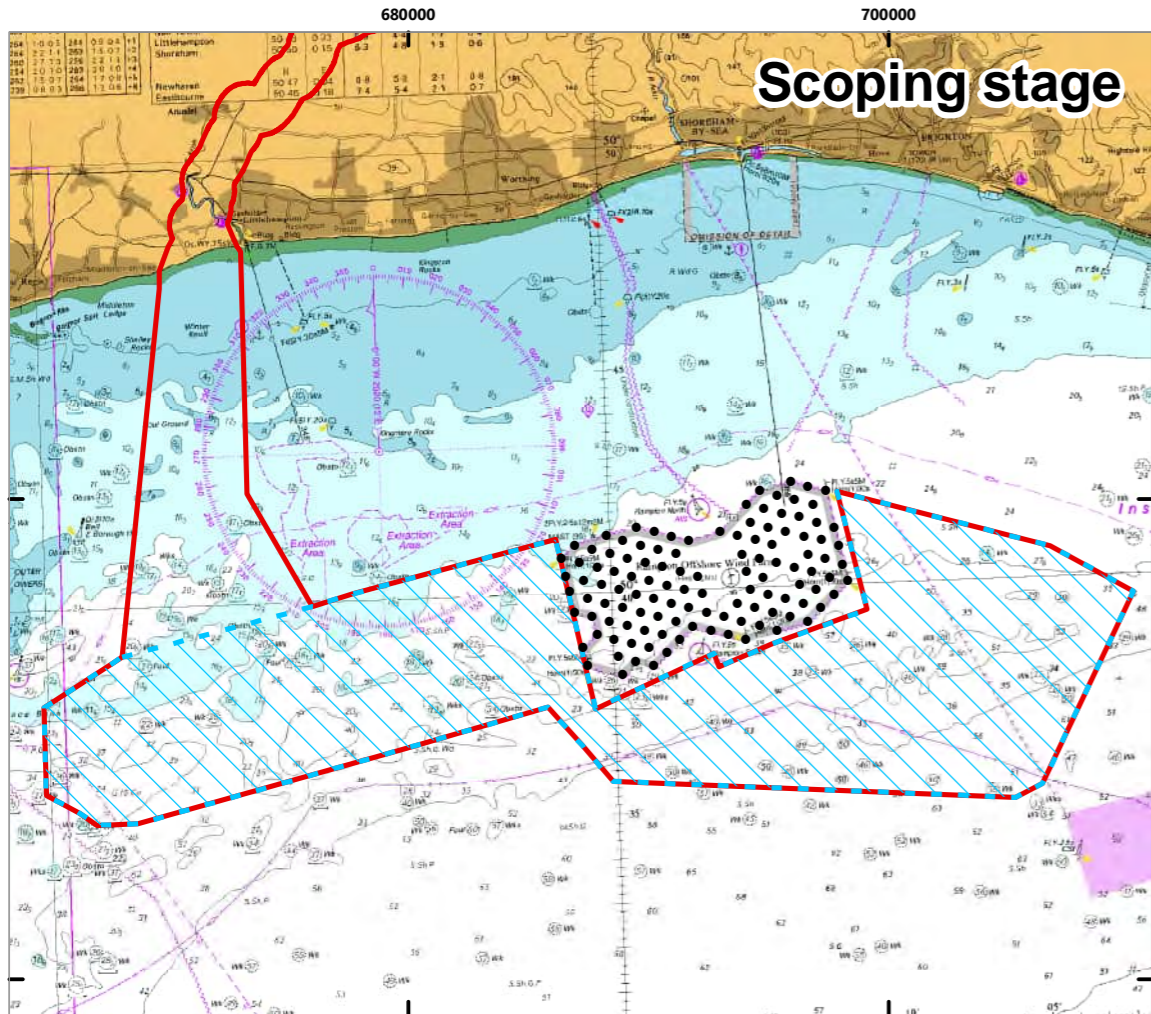


Rampion Extension Development








Rampion 2 Offshore Wind Farm
 Figure 15.1 SLVIA Project design envelope
 Environmental Statement

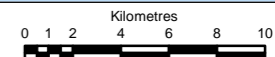
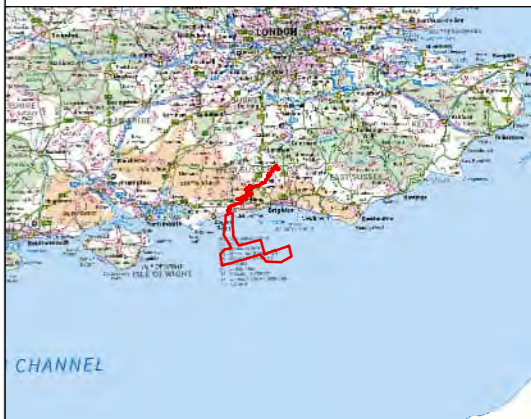
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Key

-  Scoping Boundary
-  PEIR Assessment Boundary
-  Proposed DCO Order Limits
-  Offshore Array Area
-  Operational Rampion 1 WTG



1:3,500,000

WGS 1984 UTM Zone 30N Transverse Mercator

Rampion Extension Development



Rampion 2 Offshore Wind Farm

Figure 15.2 Wind Farm Array Area Design Evolution

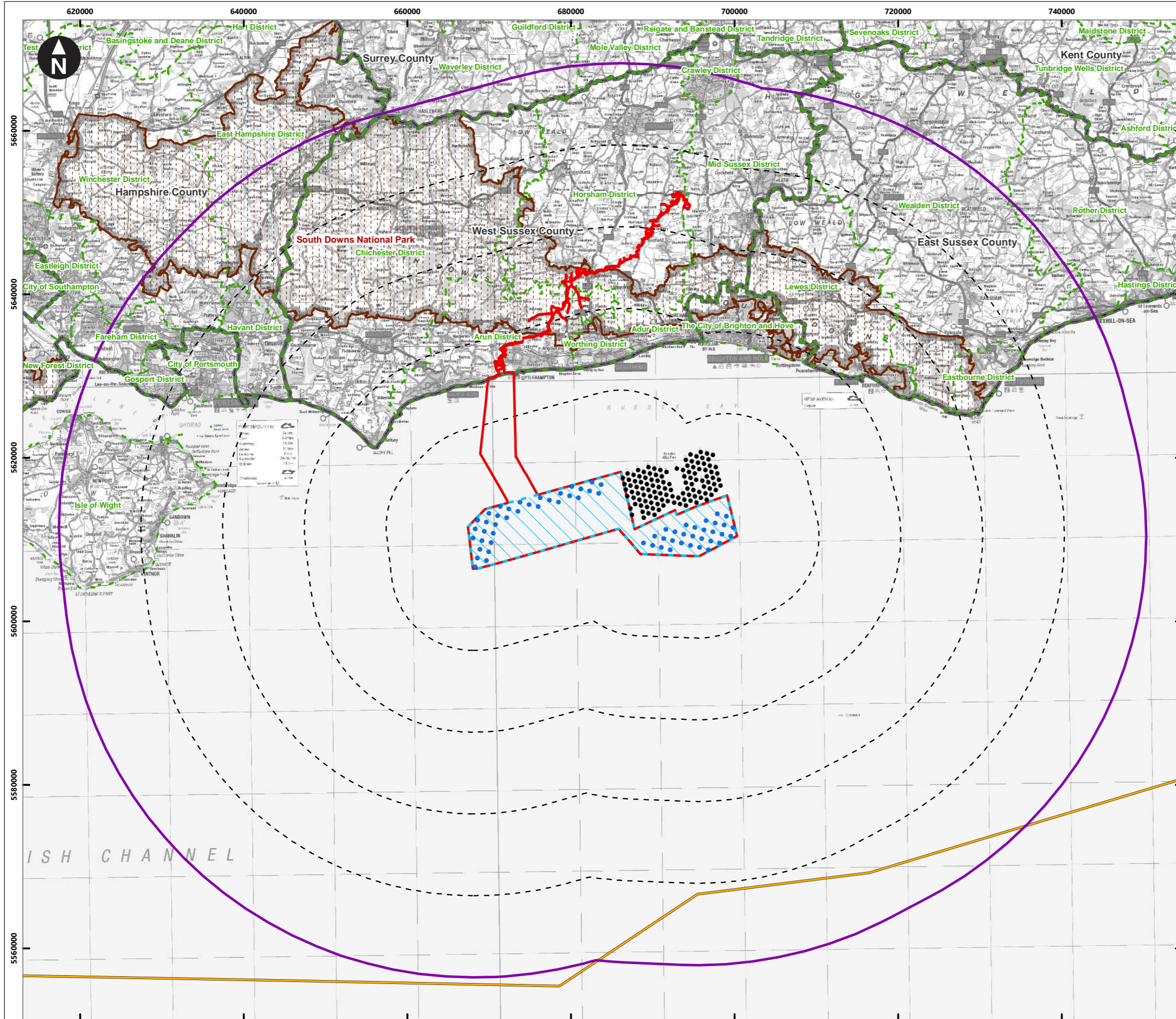
Environmental Statement

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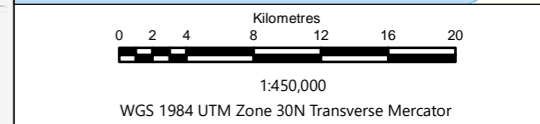
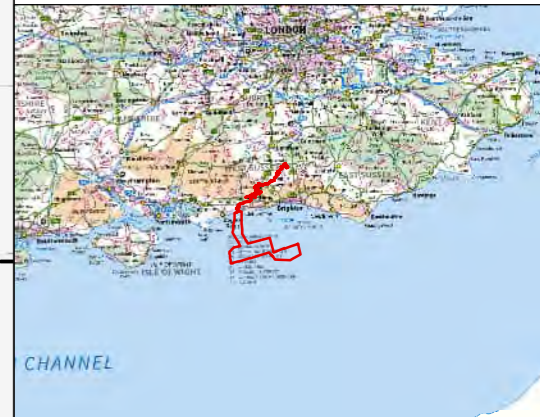


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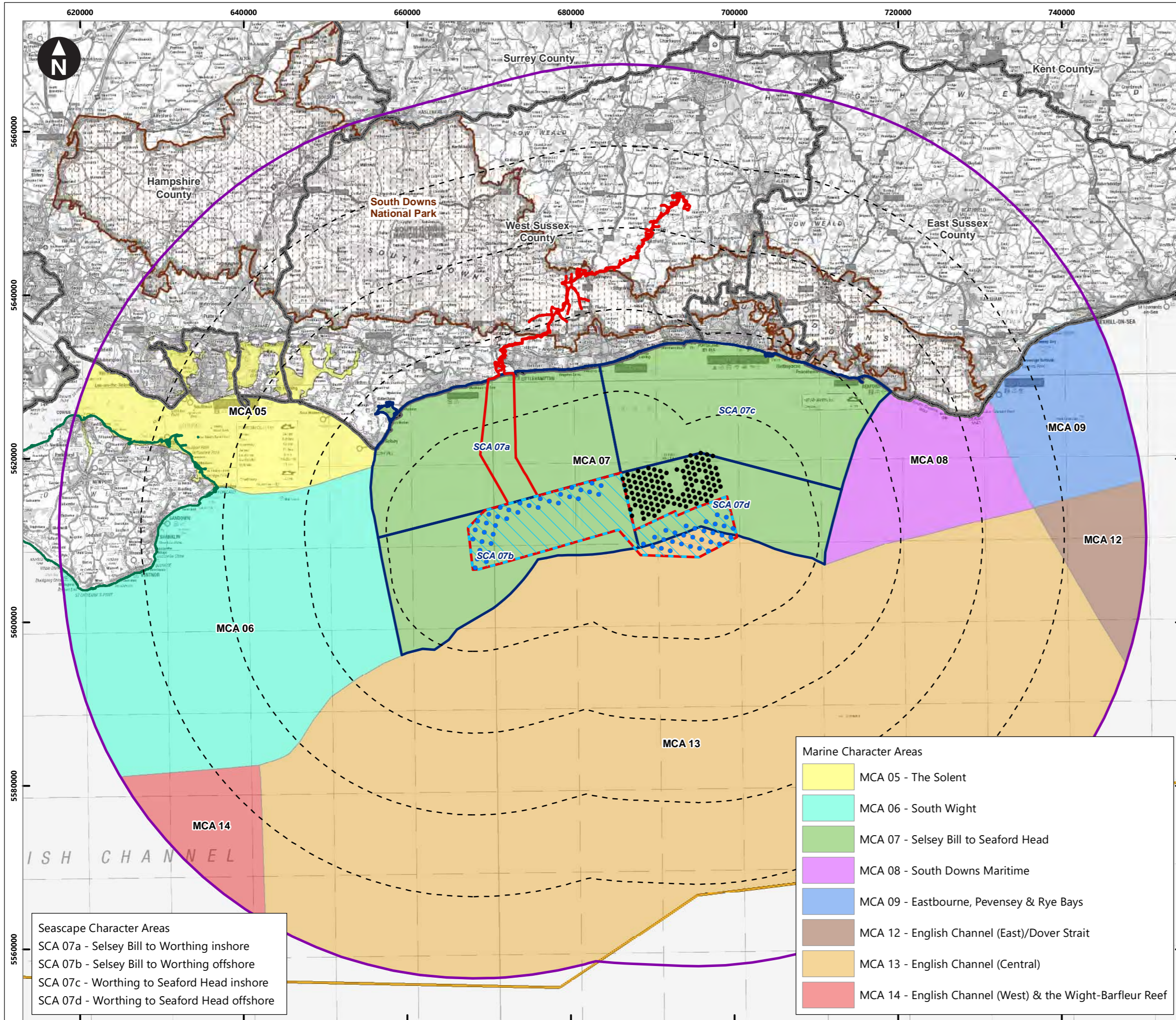
- Proposed DCO Order Limits
- 50km Study Area
- Offshore Array Area
- 10km Radii
- Rampion 2 WTG
- Operational Rampion 1 WTG
- National Park
- County boundary
- District boundary
- Maritime boundary (UK and France)



Rampion Extension Development

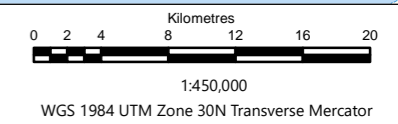
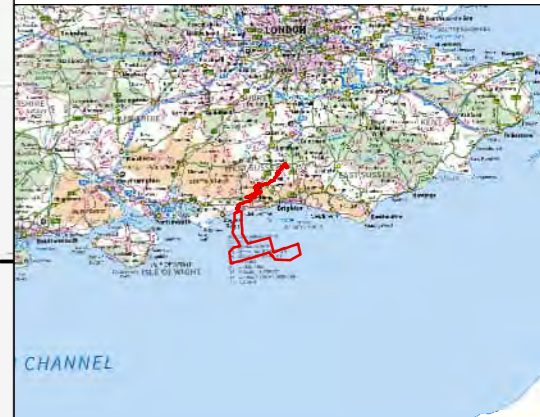
Rampion 2 Offshore Wind Farm
 Figure 15.3 Site location and SLVIA study area
 Environmental Statement

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Company: OPEN	Drawn By: JM	Chk/Prvrd: WSP	Drawn Date: 06/06/2023	Status: FINAL



Key

- Proposed DCO Order Limits
- 50km Study Area
- Offshore Array Area
- 10km Radii
- Rampion 2 WTG
- Operational Rampion 1 WTG
- National Park
- County boundary
- Isle of Wight district boundary
- Maritime boundary (UK and France)
- Seascape Character Area



Marine Character Areas	
	MCA 05 - The Solent
	MCA 06 - South Wight
	MCA 07 - Selsey Bill to Seaford Head
	MCA 08 - South Downs Maritime
	MCA 09 - Eastbourne, Pevensey & Rye Bays
	MCA 12 - English Channel (East)/Dover Strait
	MCA 13 - English Channel (Central)
	MCA 14 - English Channel (West) & the Wight-Barfleur Reef

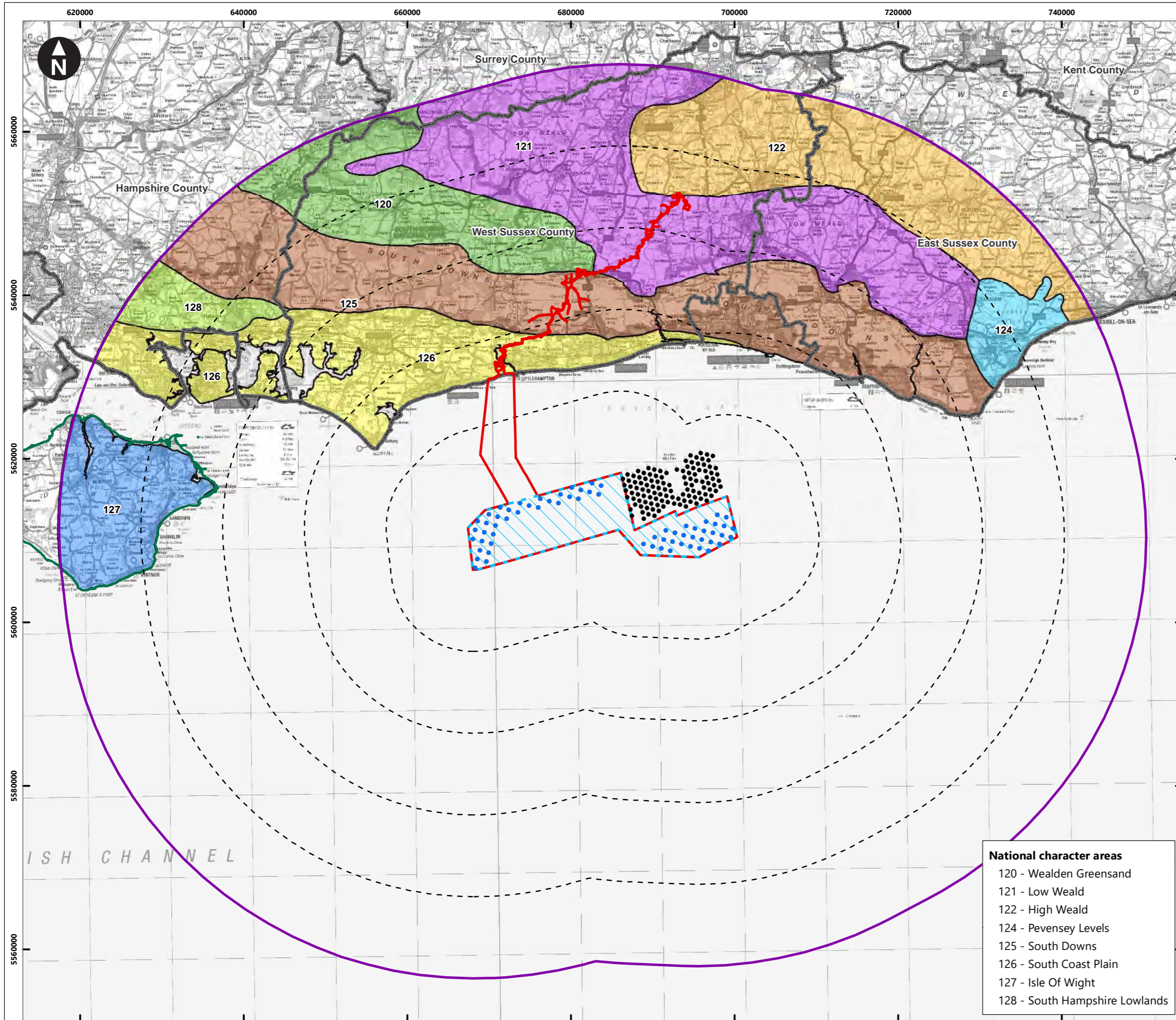
Seascape Character Areas
 SCA 07a - Selsey Bill to Worthing inshore
 SCA 07b - Selsey Bill to Worthing offshore
 SCA 07c - Worthing to Seaford Head inshore
 SCA 07d - Worthing to Seaford Head offshore

Rampion Extension Development



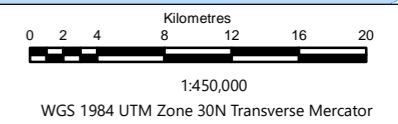
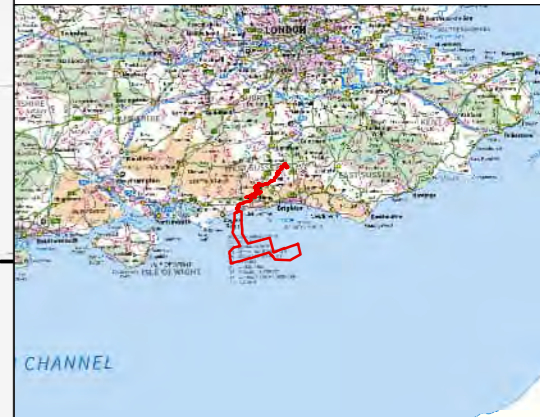
Rampion 2 Offshore Wind Farm
 Figure 15.4 Seascape character
 Environmental Statement

System Identifier: 42285-GOBE-ES-OF-FG-10-6789		Version: 3.0
Company: OPEN	Drawn By: JM	Chk/Prvrd: WSP
Drawn Date: 06/06/2023	Status: FINAL	



Key

- Proposed DCO Order Limits
- 50km Study Area
- Offshore Array Area
- 10km Radii
- Rampion 2 WTG
- Operational Rampion 1 WTG
- County boundary
- National character area
- Isle of Wight district boundary

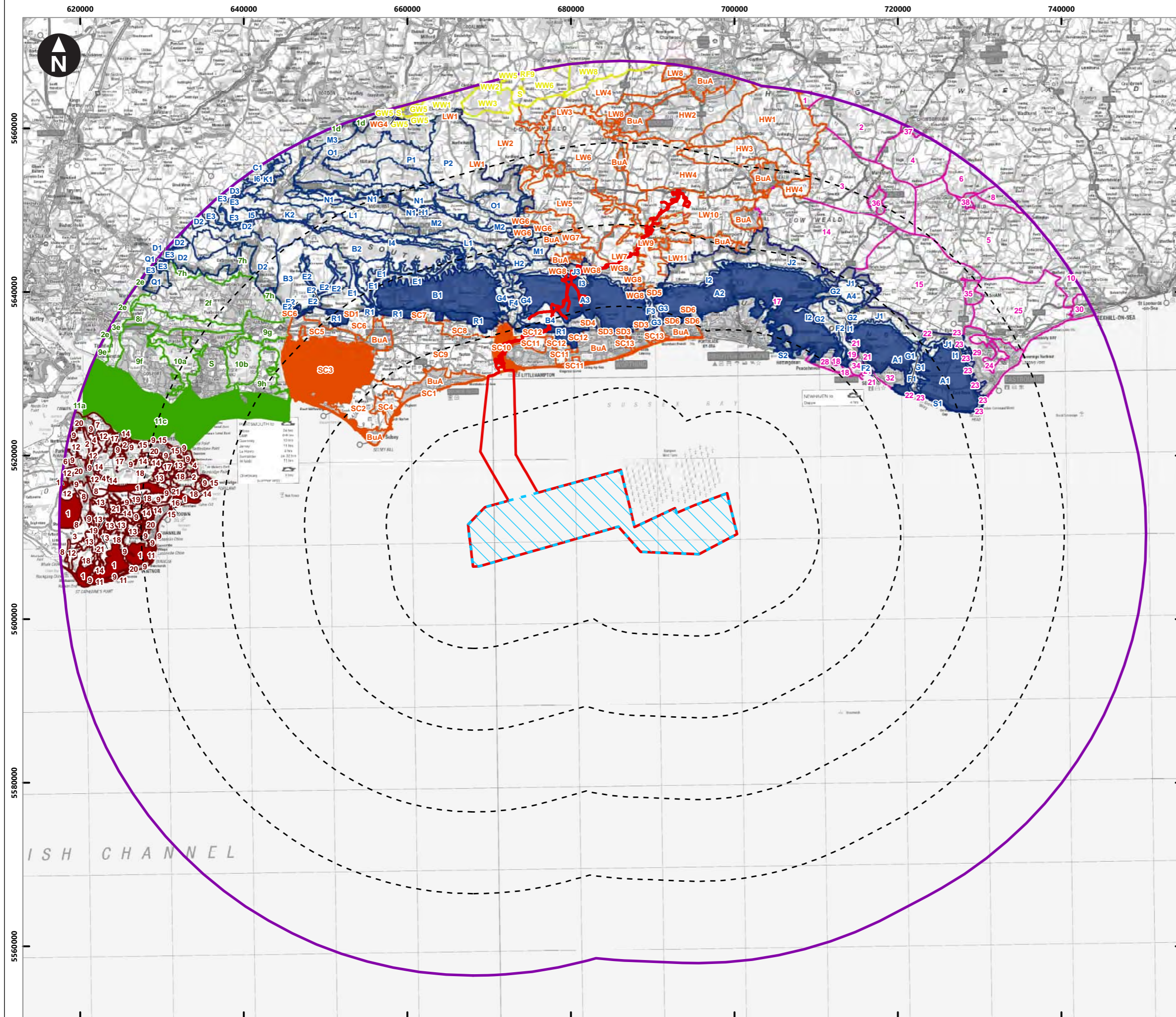


Rampion Extension Development




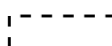






Rampion 2 Offshore Wind Farm
 Figure 15.5 Landscape character (National)
 Environmental Statement

- National character areas**
- 120 - Wealden Greensand
 - 121 - Low Weald
 - 122 - High Weald
 - 124 - Pevensey Levels
 - 125 - South Downs
 - 126 - South Coast Plain
 - 127 - Isle Of Wight
 - 128 - South Hampshire Lowlands

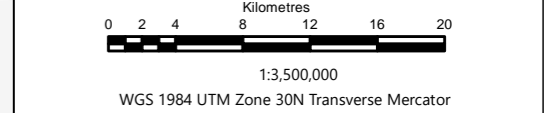
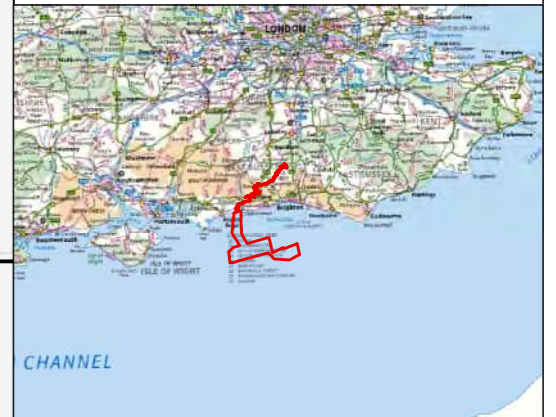
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Company: OPEN	Drawn By: JM	Chk/Prvrd: WSP	Drawn Date: Status: 06/06/2023 FINAL



Key

-  Proposed DCO Order Limits
-  50km Study Area
-  Offshore Array Area
-  10km Radii
-  SDNPA Landscape Character
-  East Sussex Landscape Character
-  Hampshire Landscape Character
-  Isle of Wight Landscape Character
-  Surrey Landscape Character
-  West Sussex Landscape Character

Please see figure 15.6b for LCA Legend
 LCTs with fill scoped into the SLVIA



Rampion Extension Development

Rampion 2 Offshore Wind Farm

Figure 15.6a Landscape Character (County)

Environmental Statement

System Identifier: 42285-GOBE-ES-OF-FG-10-3144				Version: 3.0
Company: OPEN	Drawn By: JM	Chk/Prvd: WSP	Drawn Date: 03/08/2023	Status: FINAL

SDNPA landscape character

Source: South Downs National Park Integrated Landscape Character Assessment (2020)

- A1. Ouse to Eastbourne Open Downs
- A2. Adur to Ouse Open Downs
- A3. Arun to Adur Open Downs
- A4. Mount Caburn
- B1. Goodwood to Arundel Wooded Estate Downland
- B2. Queen Elizabeth Forest to East Dean Wooded Estate Downland
- B3. Stansted to West Dean Wooded Estate Downland
- B4. Angmering and Clapham Wooded Estate Downland
- C1. Froxfield Clay Plateau
- D1. South Winchester Downland Mosaic
- D2. Hambledon to Clanfield Downland Mosaic
- D3. Bramdean and Cheriton Downland Mosaic
- E1. Lavant Valley
- E2. Emms Valley
- E3. Meon Valley
- F1. Cuckmere Floodplain
- F2. Ouse Floodplain
- F3. Adur Floodplain
- F4. Arun Floodplain
- G1. Cuckmere Valley Sides
- G2. Ouse Valley Sides
- G3. Adur Valley Sides
- G4. Arun Valley Sides
- H1. Rother Floodplain
- H2. Arun (Wealden) Floodplain
- I1. Ouse to Eastbourne Downs Scarp
- I2. Adur to Ouse Downs Scarp
- I3. Arun to Adur Downs Scarp
- I4. Buriton to Arun Scarp
- I5. Saltdown to Butser Hill Scarp
- I6. Selborne Hangers to East Meon Scarp
- J1. Ouse to Eastbourne Scarp Foothills
- J2. Adur to Ouse Scarp Foothills
- J3. Arun to Adur Scarp Foothills
- K1. East Hampshire Greensand Terrace
- K2. East Meon to Bury Greensand Terrace
- L1. Rother Valley Mixed Farmland and Woodland
- M1. Parham Farmland and Heath Mosaic
- M2. Rother Farmland and Heath Mosaic
- M3. Woolmer Forest / Weaver's Down
- N1. Rother Valley Farmland
- O1. Blackdown to Petworth Greensand Hills
- P1. Milland Basin
- P2. Northchapel Basin
- Q1. West Walk - Rookesbury Park
- R1. South Downs Upper Coastal Plain
- S1. Seaford to Beachy Head Shoreline
- S2. Brighton to Rottingdean

East Sussex landscape character

Source: East Sussex Landscape Character Assessment (2016)

- 1. Upper Medway
- 2. Ashdown Forest
- 3. Upper Ouse Valley
- 4. Central High Weald
- 5. South Slopes of High Weald

- 6. Upper Rother Valley
- 8. Dudwell Valley
- 10. Coombe Haven Valley
- 14. Western Low Weald
- 15. Eastern Low Weald
- 17. Ditchling - Mount Harry Downs
- 18. Falmer - Telscombe Downs
- 19. Lower Ouse Valley
- 21. Firlie Bishopstone Downs
- 22. Lower Cuckmere Valley
- 23. Wilmington Heritage Downs
- 24. Eastbourne Levels
- 25. Pevensey Levels
- 28. Saltdean - Peacehaven
- 29. Eastbourne
- 30. Bexhill
- 32. Seaford
- 34. Newhaven
- 35. Hailsham
- 36. Uckfield
- 37. Crowborough
- 38. Heathfield

Hampshire landscape character

Source: Hampshire Integrated Character Assessment (2010)

- 1d. Western Weald Forest and Farmland Heath*
- 2e. Forest of Bere West
- 2f. Forest of Bere East
- 3e. Meon Valley
- 7h. South East Hampshire Downs
- 8i. Portsdown Hill Open Downs
- 9e. Chilling Brownwich and Locks Heath Coastal Plain
- 9f. Gosport and Fareham Coastal Plain
- 9g. Havant and Emsworth Coastal Plain
- 9h. Hayling Island Coastal Plain
- 10a. Harbours
- 10b. Langstone and Chichester Harbours
- 11a. Western Solent
- 11c. Eastern Solent
- S. Settlement

Isle of Wight landscape character

Source: East Wight Landscape Character Assessment (2015)

- 1. Chalk Downs
- 2. Harbours and Creeks
- 3. Intensive Agricultural Land
- 4. Landscape Improvement Area
- 6. Northern Woodlands
- 7. Osborne Coast
- 8. Sandstone Hills & Gravel Ridges
- 9. Settlement
- 11. The Undercliff
- 12. Traditional Enclosed Pasture Land
- 13. Arable Farmland
- 14. Changed Countryside
- 15. Coastal Designed Landscape
- 16. Coastal Farmland
- 17. East Wight Woodlands
- 18. Pasture Land

- 19. Sandstone Hills
- 20. Urban
- 21. Valley Floor

Surrey landscape character

Source: Surrey Landscape Character Assessment (2015)

- GW5. Hindhead Wooded Greensand Hills
- RF9. Wey and Arun Canal River Floodplain
- S. Settlement
- WW1. Chiddingfold Wooded Low Weald
- WW2. West Dunsfold Wooded Low Weald
- WW3. Tugley to Sydney Wood Wooded Low Weald
- WW5. Grafham to Dunsfold Wooded Low Weald
- WW6. Dunsfold to Pollingfold Wooded Low Weald
- WW8. Cranleigh to Charlwood Wooded Low Weald

West Sussex landscape character

Source: Landscape Character Assessment of West Sussex (2003)

- BuA. Build up Area
- HW1. High Weald
- HW2. High Weald Forests
- HW3. Ouse Valley
- HW4. High Weald Fringes
- LW1. North Western Valleys
- LW10. Eastern Low Weald
- LW11. Eastern Scarp Foothills
- LW2. North Western Low Weald
- LW3. Upper Arun Valley
- LW4. Low Weald Hills
- LW5. Southern Low Weald
- LW6. Central Low Weald
- LW7. Wiston Low Weald
- LW8. Northern Vales
- LW9. Upper Adur Valley
- SC1. South Coast Shoreline
- SC10. Lower Arun Valley
- SC11. Littlehampton & Worthing Fringes
- SC12. Angmering Upper Coastal Plain
- SC13. Worthing & Adur Fringes
- SC2. Manhood Peninsula
- SC3. Chichester Harbour
- SC4. Pagham Harbour
- SC5. Southbourne Coastal Plain
- SC6. Ashlings Upper Coastal Plain
- SC7. Halnaker Upper Coastal Plain
- SC8. Fontwell Upper Coastal Plain
- SC9. Chichester to Yapton Coastal Plain
- SD1. Western Downs
- SD3. Central Downs
- SD4. Angmering Park
- SD5. Downland Adur Valley
- SD6. Eastern Downs
- WG4. North Western Ridges
- WG6. Arun Wildbrooks
- WG7. Storrington Woods & Heaths
- WG8. Central Scarp Foothills

Rampion Extension Development

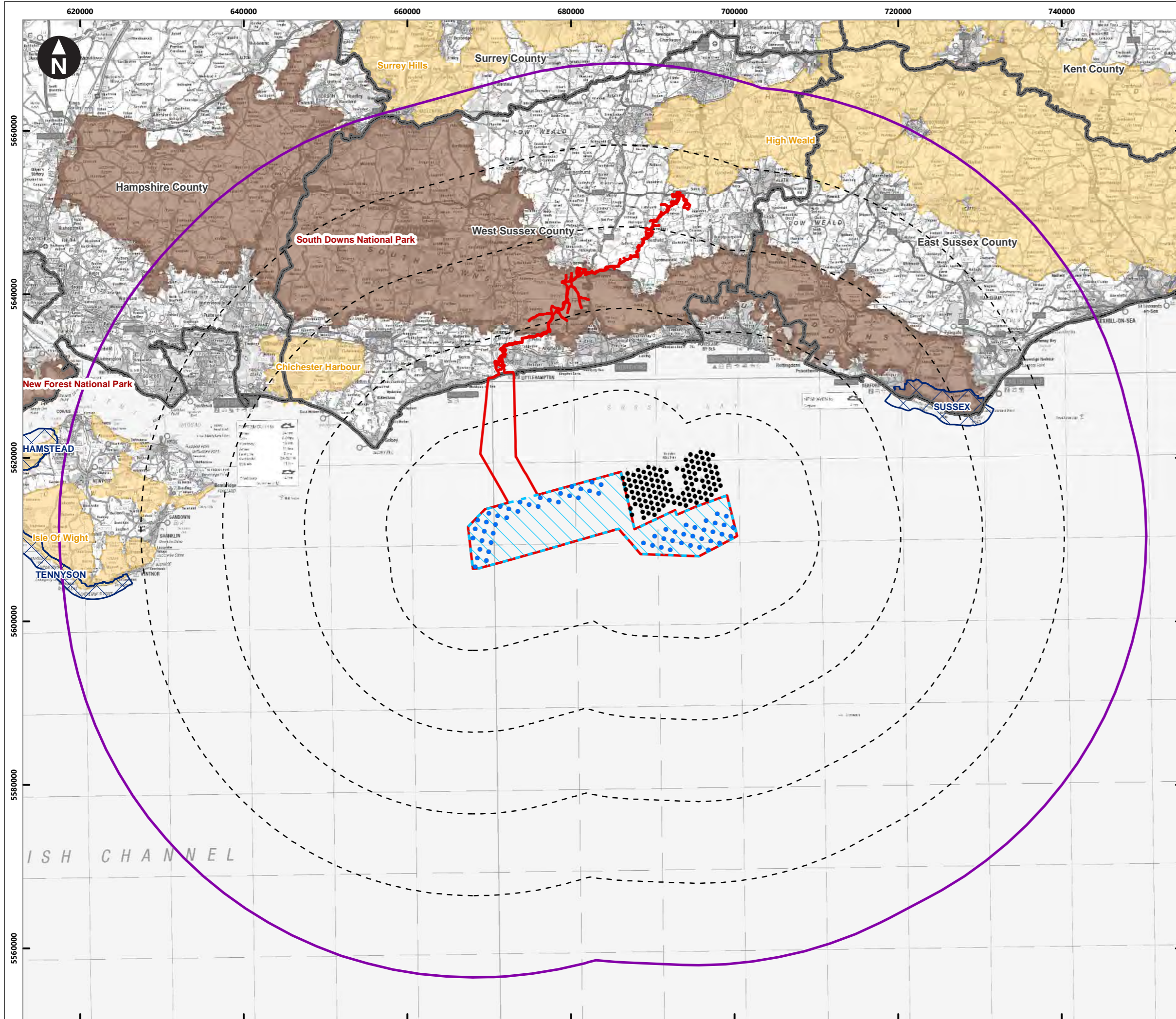


Rampion 2 Offshore Wind Farm




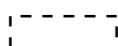






Figure 15.6b Landscape character (County) legend

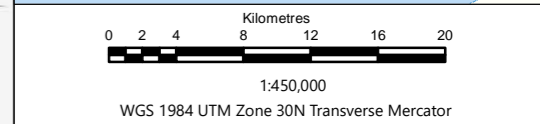
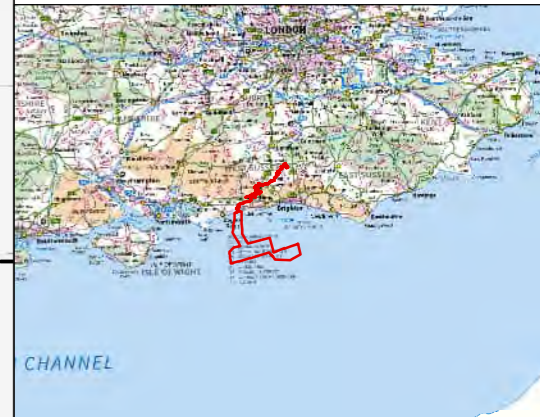
Environmental Statement

System Identifier: 42285-GOBE-ES-OF-FG-10-6104				Version: 3.0
Company: OPEN	Drawn By: JM	Chk/Prvd: WSP	Drawn Date: 06/06/2023	Status: FINAL



Key

-  Proposed DCO Order Limits
-  50km Study Area
-  Offshore Array Area
-  10km Radii
-  Rampion 2 WTG
-  Operational Rampion 1 WTG
-  County boundary
-  Heritage Coasts
-  Area of Outstanding Natural Beauty
-  National Park



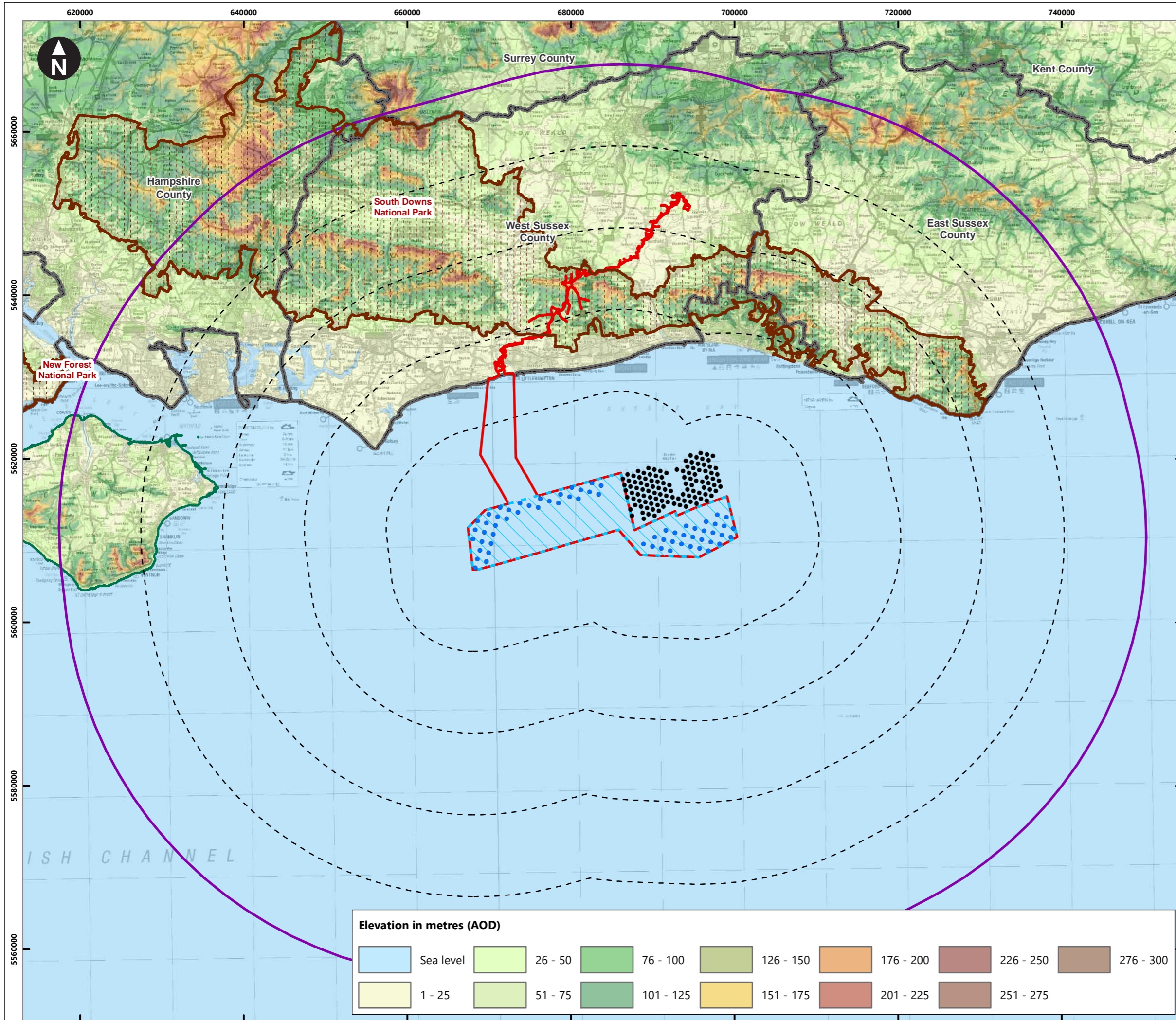
Rampion Extension Development



Rampion 2 Offshore Wind Farm
 Figure 15.7 Landscape designations
 Environmental Statement

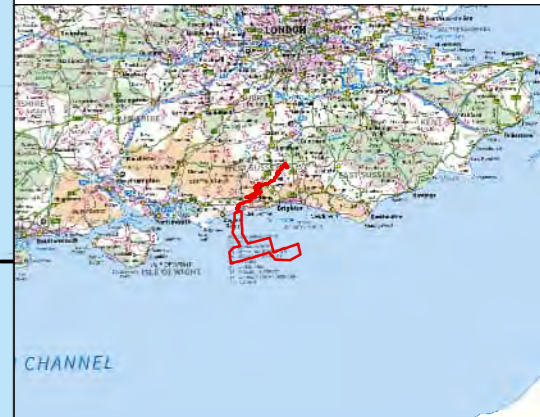
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Company: OPEN	Drawn By: JM	Chk/Prvrd: WSP	Drawn Date: 06/06/2023	Status: FINAL

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Key

- Proposed DCO Order Limits
- 50km Study Area
- Offshore Array Area
- 10km Radii
- Rampion 2 WTG
- Operational Rampion 1 WTG
- National Park
- County boundary
- Isle of Wight District Boundary



0 2 4 8 12 16 20
 Kilometres
 1:450,000
 WGS 1984 UTM Zone 30N Transverse Mercator

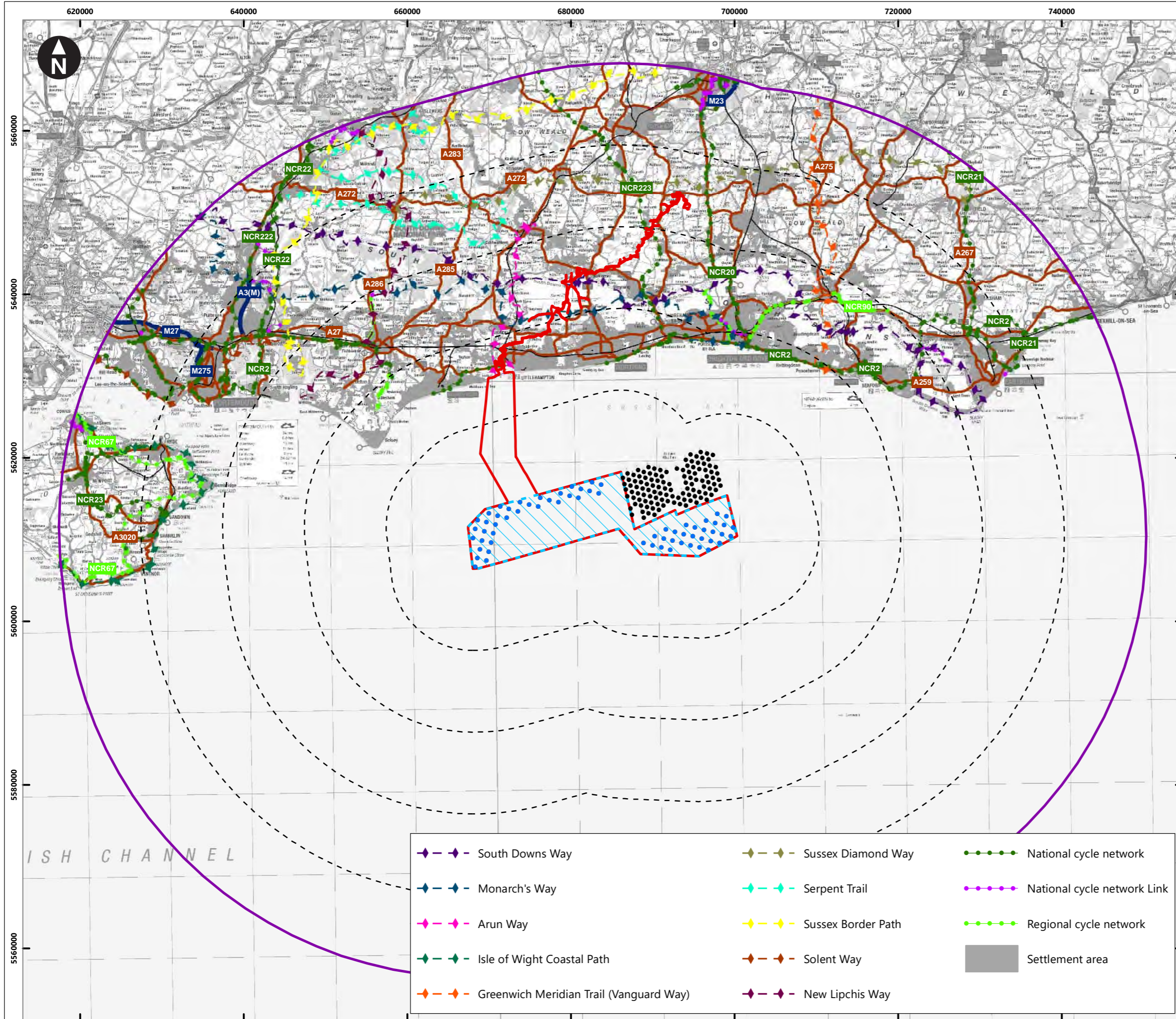
Rampion Extension Development

Rampion 2 Offshore Wind Farm
 Figure 15.8 Landform
 Environmental Statement

Elevation in metres (AOD)

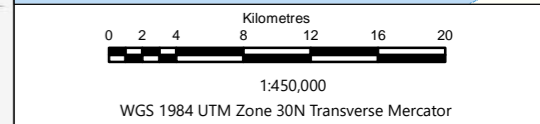
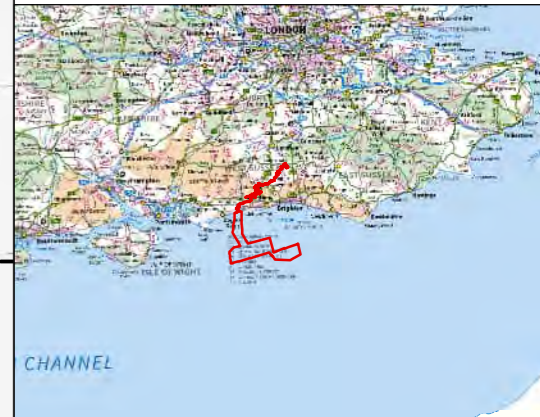
Sea level	26 - 50	76 - 100	126 - 150	176 - 200	226 - 250	276 - 300
1 - 25	51 - 75	101 - 125	151 - 175	201 - 225	251 - 275	

System Identifier: 42285-GOBE-ES-OF-FG-10-7357					Version: 3.0
Company: OPEN	Drawn By: JM	Chk/Prvrd: WSP	Drawn Date: 06/06/2023	Status: FINAL	



Key

- Proposed DCO Order Limits
- 50km Study Area
- Offshore Array Area
- 10km Radii
- Rampion 2 WTG
- Operational Rampion 1 WTG
- Motorway
- Primary and A Road
- Railway

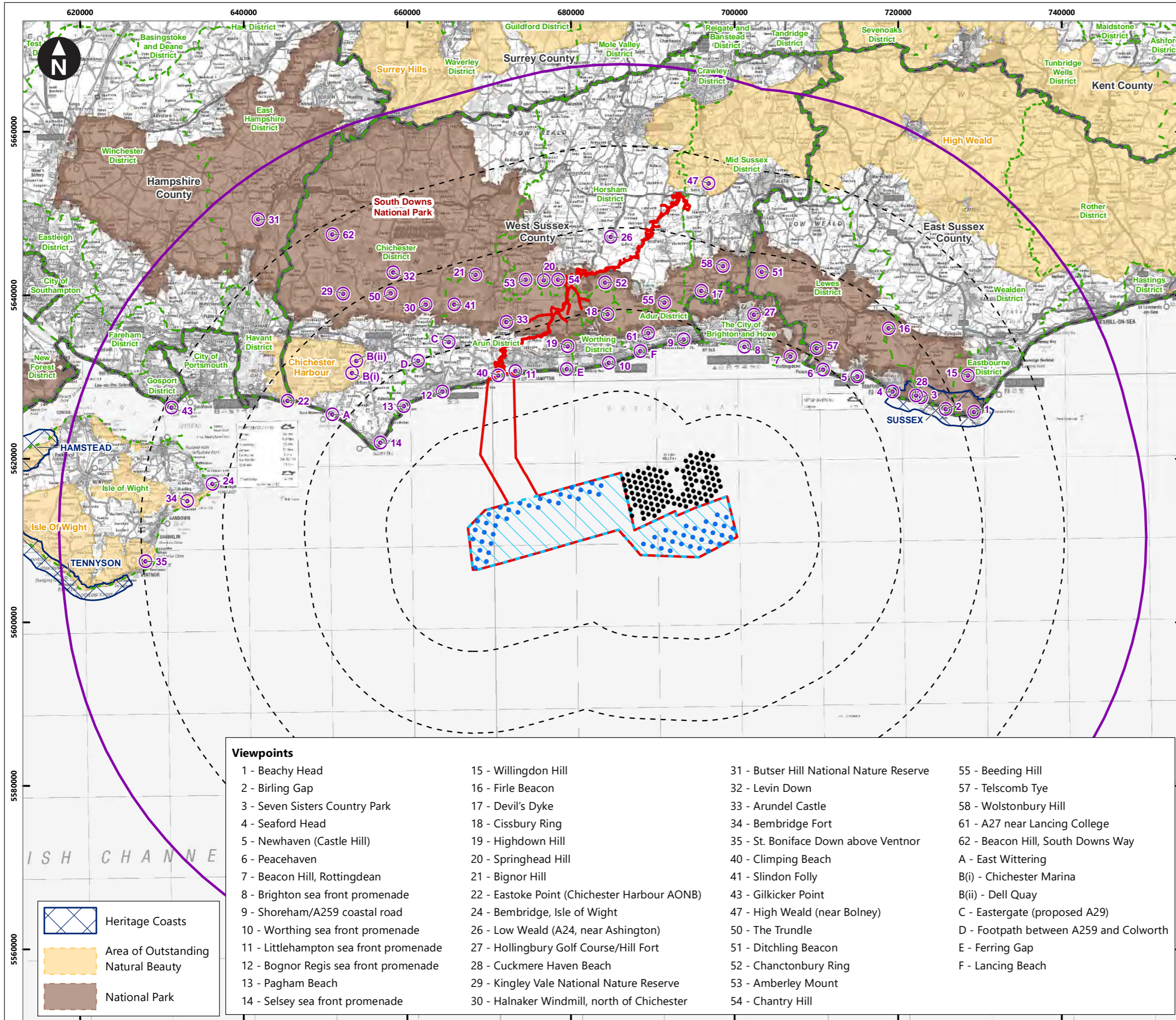


Rampion Extension Development

Rampion 2 Offshore Wind Farm
 Figure 15.9 Visual receptors
 Environmental Statement

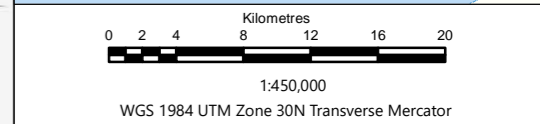
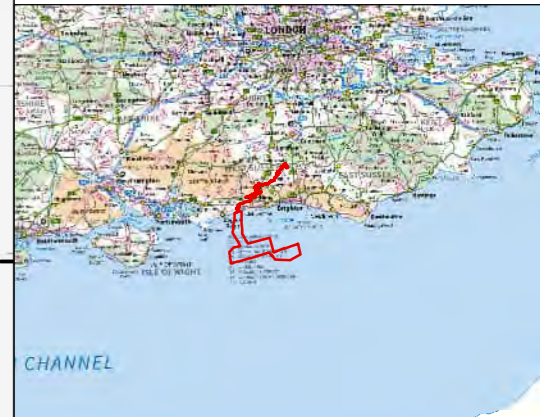
◆ South Downs Way	◆ Sussex Diamond Way	● National cycle network
◆ Monarch's Way	◆ Serpent Trail	● National cycle network Link
◆ Arun Way	◆ Sussex Border Path	● Regional cycle network
◆ Isle of Wight Coastal Path	◆ Solent Way	 Settlement area
◆ Greenwich Meridian Trail (Vanguard Way)	◆ New Lipchis Way	

System Identifier: 42285-GOBE-ES-OF-FG-10-5285		Version: 3.0
Company: OPEN	Drawn By: JM	Chk/Prvrd: WSP
Drawn Date: 06/06/2023	Status: FINAL	



Key

- Proposed DCO Order Limits
- 50km Study Area
- Offshore Array Area
- 10km Radii
- Rampion 2 WTG
- Operational Rampion 1 WTG
- Viewpoint
- County boundary
- District boundary



Viewpoints			
1 - Beachy Head	15 - Willingdon Hill	31 - Butser Hill National Nature Reserve	55 - Beeding Hill
2 - Birling Gap	16 - Firl Beacon	32 - Levin Down	57 - Telscomb Tye
3 - Seven Sisters Country Park	17 - Devil's Dyke	33 - Arundel Castle	58 - Wolstonbury Hill
4 - Seaford Head	18 - Cissbury Ring	34 - Bembridge Fort	61 - A27 near Lancing College
5 - Newhaven (Castle Hill)	19 - Highdown Hill	35 - St. Boniface Down above Ventnor	62 - Beacon Hill, South Downs Way
6 - Peacehaven	20 - Springhead Hill	40 - Climping Beach	A - East Wittering
7 - Beacon Hill, Rottingdean	21 - Bignor Hill	41 - Slindon Folly	B(i) - Chichester Marina
8 - Brighton sea front promenade	22 - Eastoke Point (Chichester Harbour AONB)	43 - Gilkicker Point	B(ii) - Dell Quay
9 - Shoreham/A259 coastal road	24 - Bembridge, Isle of Wight	47 - High Weald (near Bolney)	C - Eastergate (proposed A29)
10 - Worthing sea front promenade	26 - Low Weald (A24, near Ashington)	50 - The Trundle	D - Footpath between A259 and Colworth
11 - Littlehampton sea front promenade	27 - Hollingbury Golf Course/Hill Fort	51 - Ditchling Beacon	E - Ferring Gap
12 - Bognor Regis sea front promenade	28 - Cuckmere Haven Beach	52 - Chanctonbury Ring	F - Lancing Beach
13 - Pagham Beach	29 - Kingley Vale National Nature Reserve	53 - Amberley Mount	
14 - Selsey sea front promenade	30 - Halnaker Windmill, north of Chichester	54 - Chantry Hill	

Rampion Extension Development

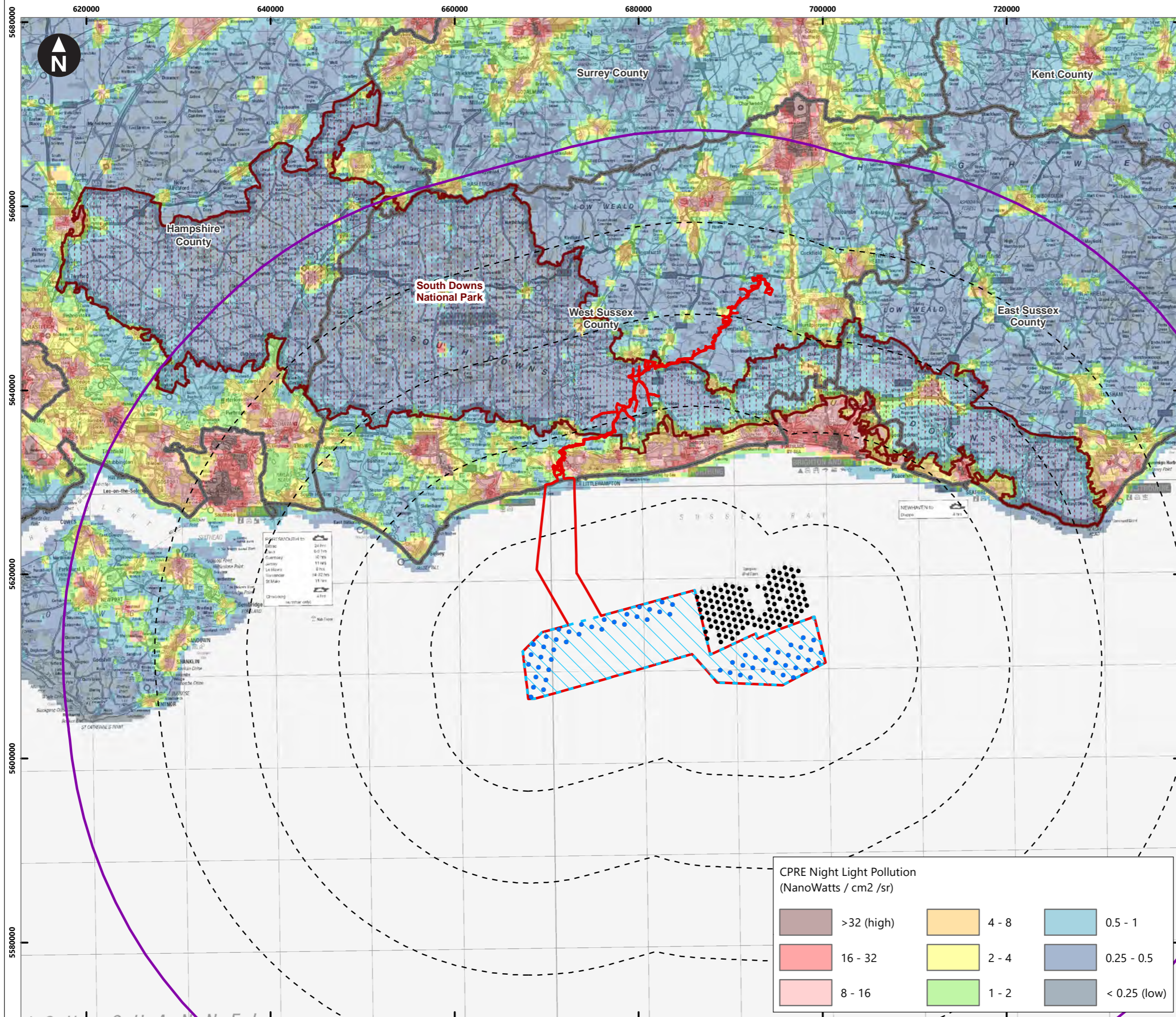
Rampion 2 Offshore Wind Farm

Figure 15.10 Viewpoints

Environmental Statement

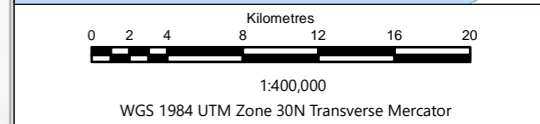
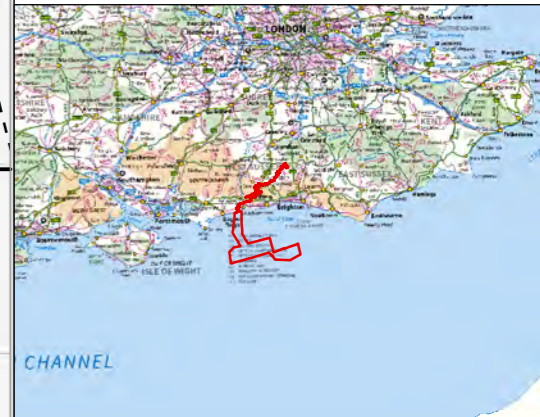
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Company: OPEN	Drawn By: JM	Chk/Prvrd: WSP
Drawn Date: 06/06/2023	Status: FINAL	

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 Earth Observation Group, NOAA National Geophysical Data Center.
 Data processed by LUC on behalf of CPRE.



Key

- Proposed DCO Order Limits
- 50km Study Area
- Offshore Array Area
- 10km Radii
- Rampion 2 WTG
- Operational Rampion 1 WTG
- County boundary
- National Park



Rampion Extension Development

Rampion 2 Offshore Wind Farm

Figure 15.11 Baseline lighting - South Downs National Park

Environmental Statement

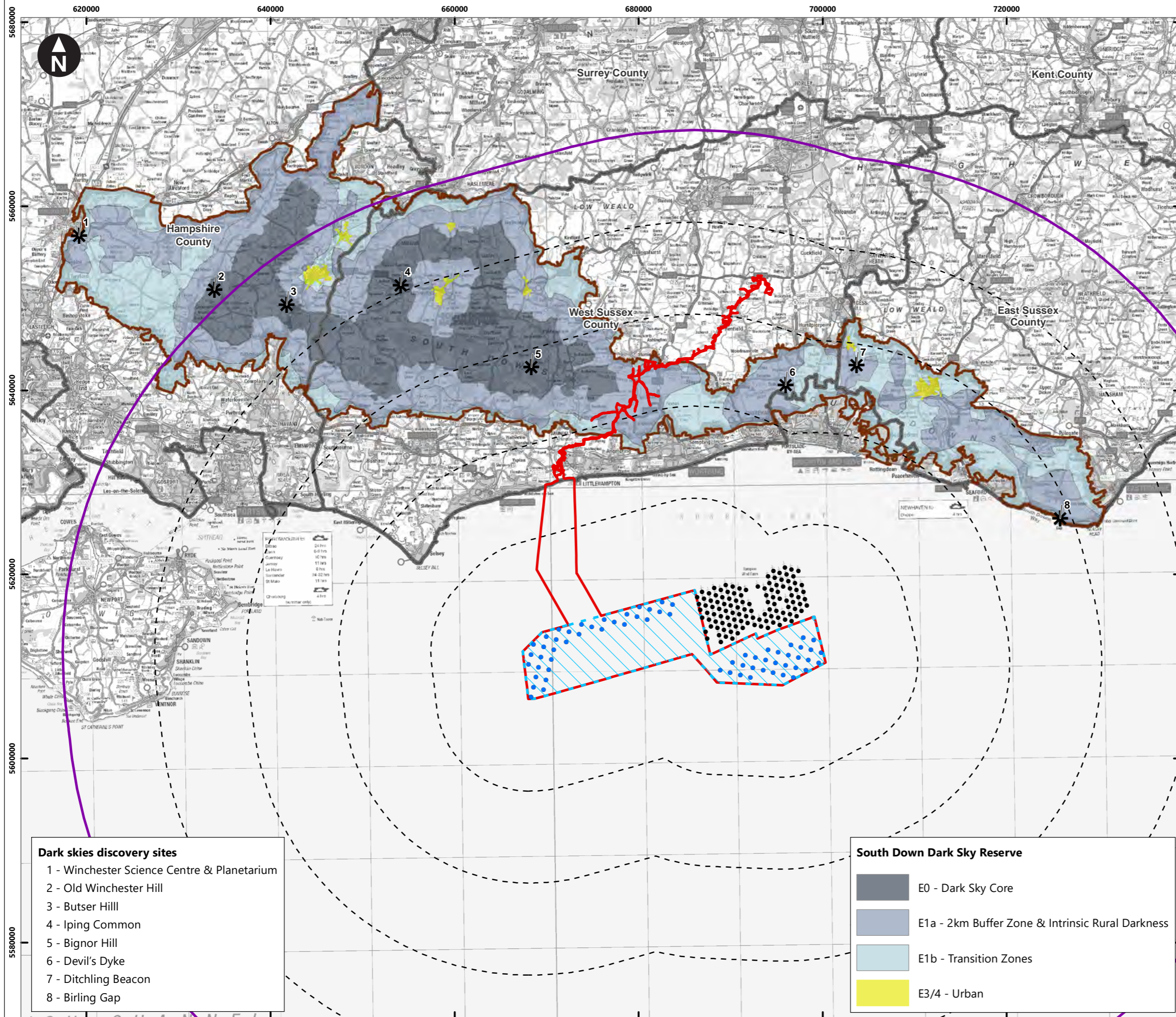
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 Version: 3.0

Company: OPEN
 Drawn By: JM
 Chk/Prvd: WSP
 Drawn Date: 06/06/2023
 Status: FINAL

CPRE Night Light Pollution (NanoWatts / cm² / sr)

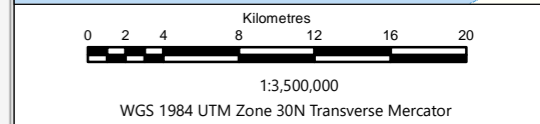
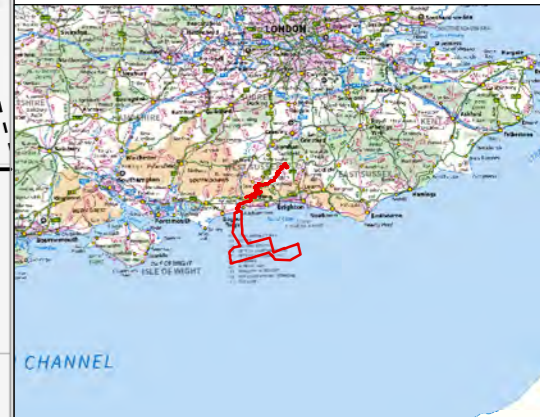
>32 (high)	4 - 8	0.5 - 1
16 - 32	2 - 4	0.25 - 0.5
8 - 16	1 - 2	< 0.25 (low)

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Key

- Proposed DCO Order Limits
- 50km Study Area
- Offshore Array Area
- 10km Radii
- Rampion 2 WTG
- Operational Rampion 1 WTG
- ✱ Dark skies discovery site
- National Park
- County boundary



- Dark skies discovery sites**
- 1 - Winchester Science Centre & Planetarium
 - 2 - Old Winchester Hill
 - 3 - Butser Hill
 - 4 - Iping Common
 - 5 - Bignor Hill
 - 6 - Devil's Dyke
 - 7 - Ditchling Beacon
 - 8 - Birling Gap

South Down Dark Sky Reserve

- E0 - Dark Sky Core
- E1a - 2km Buffer Zone & Intrinsic Rural Darkness
- E1b - Transition Zones
- E3/4 - Urban

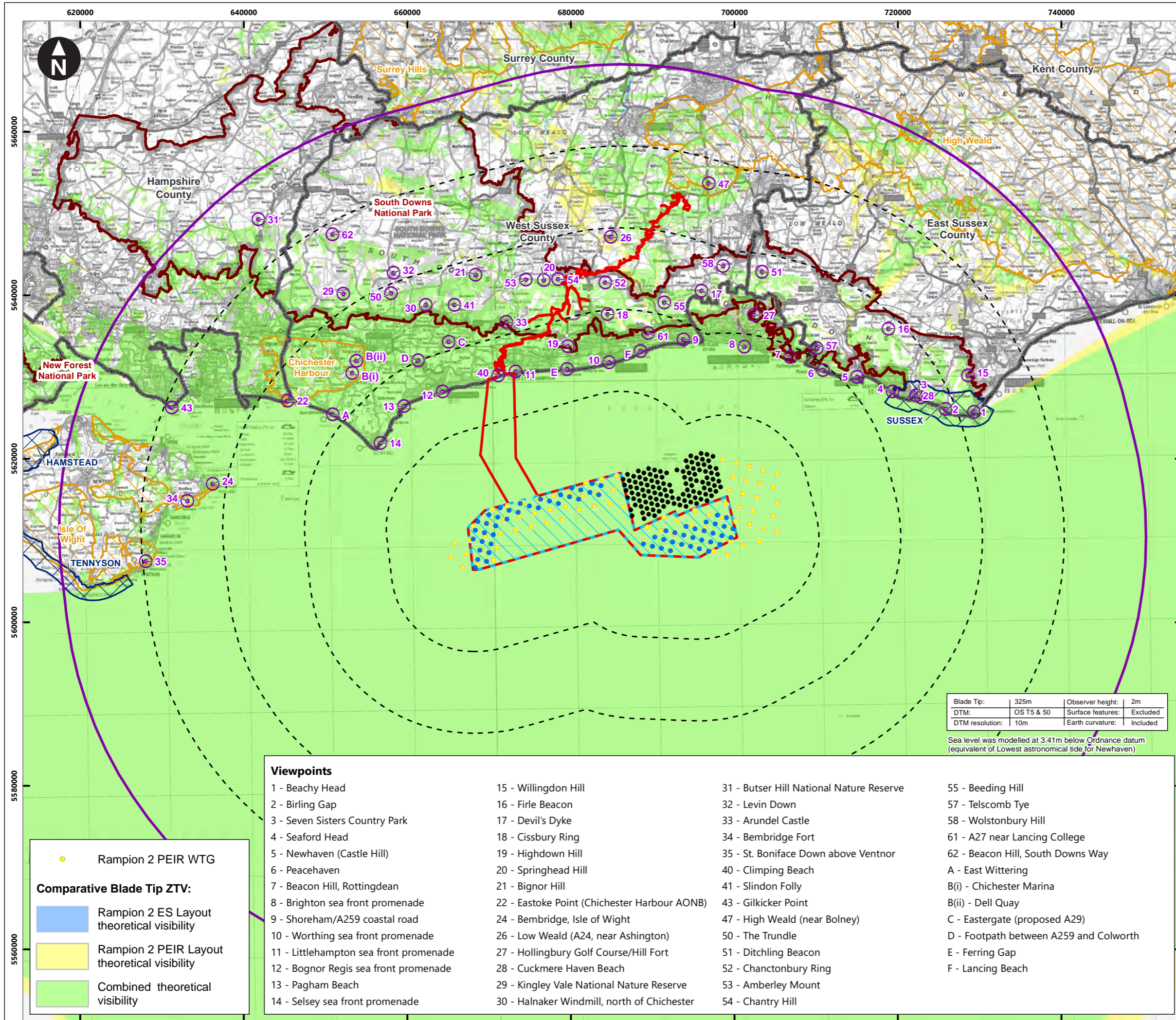
Rampion Extension Development



Rampion 2 Offshore Wind Farm

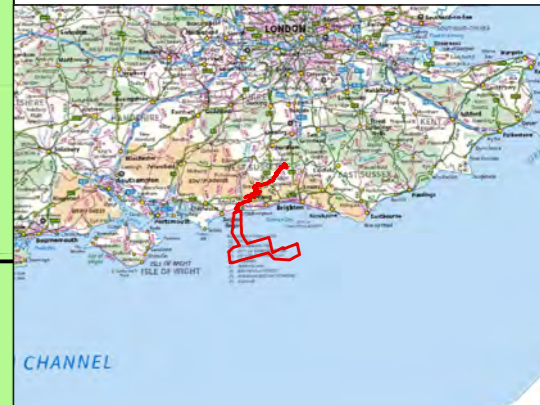
Figure 15.12 South Downs Dark Sky Reserve
Environmental Statement

System Identifier: 42285-GOBE-ES-OF-FG-10-3290		Version: 3.0
Company: OPEN	Drawn By: JM	Chk/Prvd: WSP
Drawn Date: 06/06/2023	Status: FINAL	



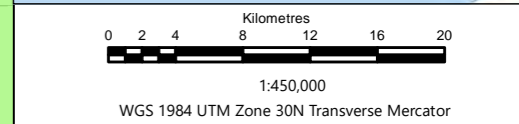
Key

- Proposed DCO Order Limits
- 50km Study Area
- Offshore Array Area
- 10km Radii
- Rampion 2 WTG
- Operational Rampion 1 WTG
- Viewpoint
- County boundary
- Heritage coasts
- Area of Outstanding Natural Beauty
- National park



Blade Tip:	325m	Observer height:	2m
DTM:	OS T5 & 50	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

Sea level was modelled at 3.41m below Ordnance datum (equivalent of Lowest astronomical tide for Newhaven)



Viewpoints

1 - Beachy Head	15 - Willingdon Hill	31 - Butser Hill National Nature Reserve	55 - Beeding Hill
2 - Birling Gap	16 - Firle Beacon	32 - Levin Down	57 - Telscomb Tye
3 - Seven Sisters Country Park	17 - Devil's Dyke	33 - Arundel Castle	58 - Wolstonbury Hill
4 - Seaford Head	18 - Cissbury Ring	34 - Bembridge Fort	61 - A27 near Lancing College
5 - Newhaven (Castle Hill)	19 - Highdown Hill	35 - St. Boniface Down above Ventnor	62 - Beacon Hill, South Downs Way
6 - Peacehaven	20 - Springhead Hill	40 - Climping Beach	A - East Wittering
7 - Beacon Hill, Rottingdean	21 - Bignor Hill	41 - Slindon Folly	B(i) - Chichester Marina
8 - Brighton sea front promenade	22 - Eastoke Point (Chichester Harbour AONB)	43 - Gilkicker Point	B(ii) - Dell Quay
9 - Shoreham/A259 coastal road	24 - Bembridge, Isle of Wight	47 - High Weald (near Bolney)	C - Eastergate (proposed A29)
10 - Worthing sea front promenade	26 - Low Weald (A24, near Ashington)	50 - The Trundle	D - Footpath between A259 and Colworth
11 - Littlehampton sea front promenade	27 - Hollingbury Golf Course/Hill Fort	51 - Ditchling Beacon	E - Ferring Gap
12 - Bognor Regis sea front promenade	28 - Cuckmere Haven Beach	52 - Chanctonbury Ring	F - Lancing Beach
13 - Pagham Beach	29 - Kingley Vale National Nature Reserve	53 - Amberley Mount	
14 - Selsey sea front promenade	30 - Halnaker Windmill, north of Chichester	54 - Chantry Hill	

• Rampion 2 PEIR WTG

Comparative Blade Tip ZTV:

- Rampion 2 ES Layout theoretical visibility
- Rampion 2 PEIR Layout theoretical visibility
- Combined theoretical visibility

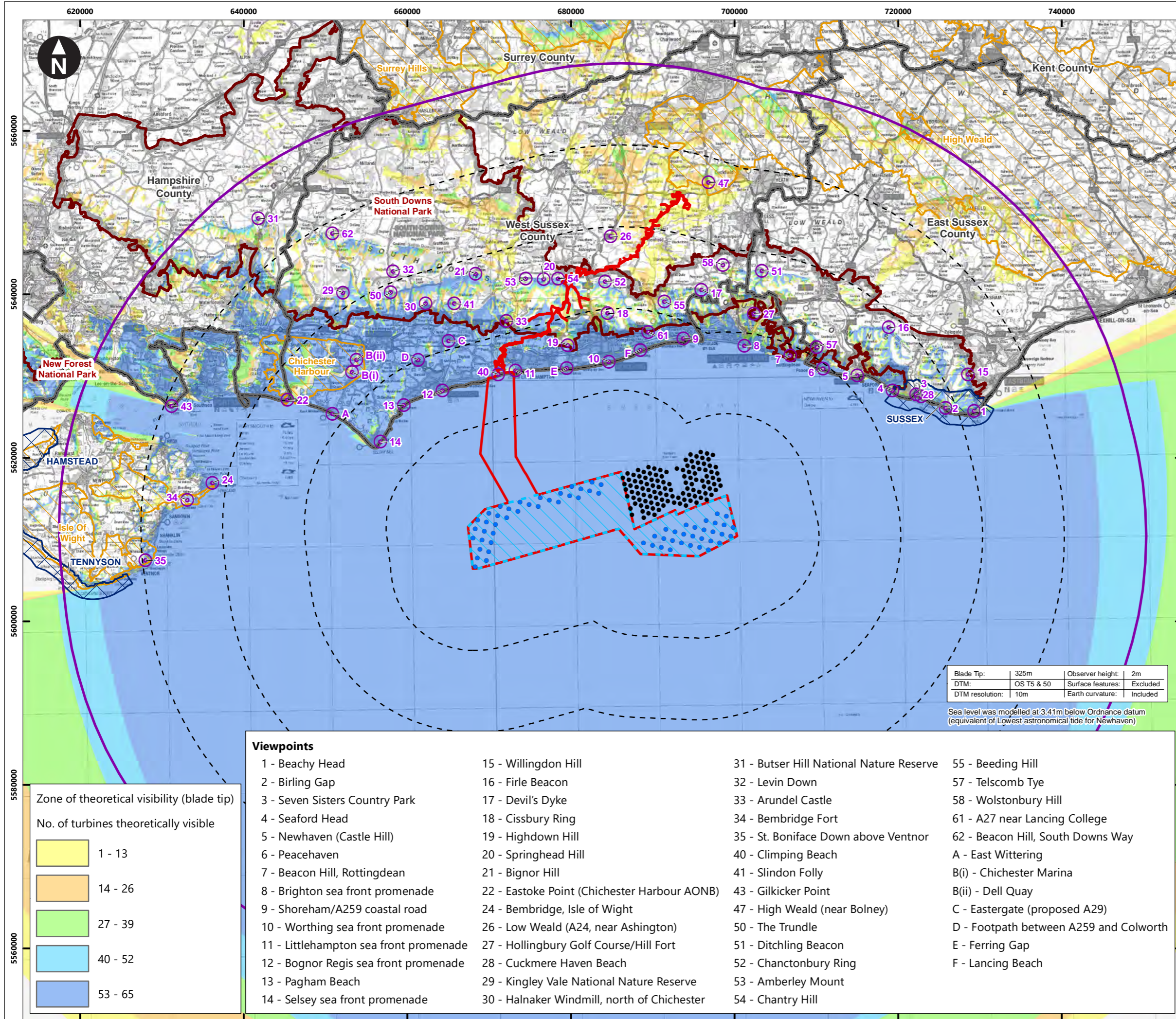
Rampion Extension Development

Rampion 2 Offshore Wind Farm

Figure 15.13 Comparative Blade Tip ZTV (325m blade tip) – 50km ES and PEIR Layouts

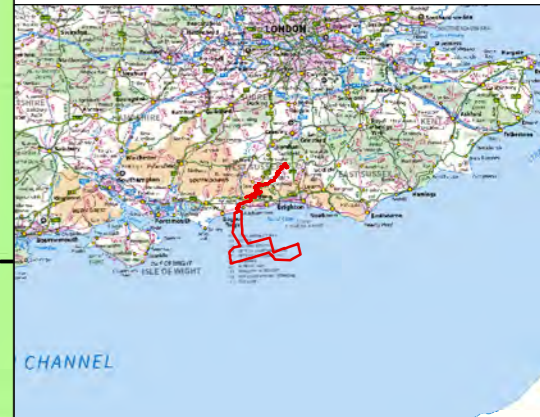
Environmental Statement

System Identifier: 42285-GOBE-ES-OF-FG-10-3823		Version: 3.0
Company: OPEN	Drawn By: JM	Chk/Prvrd: WSP
Drawn Date: 03/08/2023	Status: FINAL	



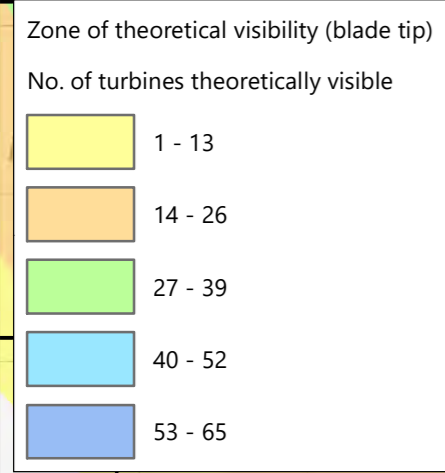
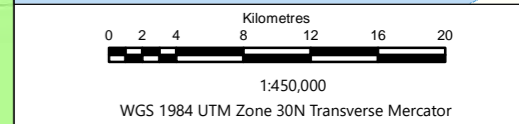
Key

- Proposed DCO Order Limits
- 50km Study Area
- Offshore Array Area
- 10km Radii
- Rampion 2 WTG
- Operational Rampion 1 WTG
- ⊙ Viewpoint
- County boundary
- Heritage coasts
- Area of Outstanding Natural Beauty
- National park



Blade Tip:	325m	Observer height:	2m
DTM:	OS T5 & 50	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

Sea level was modelled at 3.41m below Ordnance datum (equivalent of Lowest astronomical tide for Newhaven)



Viewpoints

1 - Beachy Head	15 - Willingdon Hill	31 - Butser Hill National Nature Reserve	55 - Beeding Hill
2 - Birling Gap	16 - Firle Beacon	32 - Levin Down	57 - Telscomb Tye
3 - Seven Sisters Country Park	17 - Devil's Dyke	33 - Arundel Castle	58 - Wolstonbury Hill
4 - Seaford Head	18 - Cissbury Ring	34 - Bembridge Fort	61 - A27 near Lancing College
5 - Newhaven (Castle Hill)	19 - Highdown Hill	35 - St. Boniface Down above Ventnor	62 - Beacon Hill, South Downs Way
6 - Peacehaven	20 - Springhead Hill	40 - Climping Beach	A - East Wittering
7 - Beacon Hill, Rottingdean	21 - Bignor Hill	41 - Slindon Folly	B(i) - Chichester Marina
8 - Brighton sea front promenade	22 - Eastoke Point (Chichester Harbour AONB)	43 - Gilkicker Point	B(ii) - Dell Quay
9 - Shoreham/A259 coastal road	24 - Bembridge, Isle of Wight	47 - High Weald (near Bolney)	C - Eastergate (proposed A29)
10 - Worthing sea front promenade	26 - Low Weald (A24, near Ashington)	50 - The Trundle	D - Footpath between A259 and Colworth
11 - Littlehampton sea front promenade	27 - Hollingbury Golf Course/Hill Fort	51 - Ditchling Beacon	E - Ferring Gap
12 - Bognor Regis sea front promenade	28 - Cuckmere Haven Beach	52 - Chanctonbury Ring	F - Lancing Beach
13 - Pagham Beach	29 - Kingley Vale National Nature Reserve	53 - Amberley Mount	
14 - Selsey sea front promenade	30 - Halnaker Windmill, north of Chichester	54 - Chantry Hill	

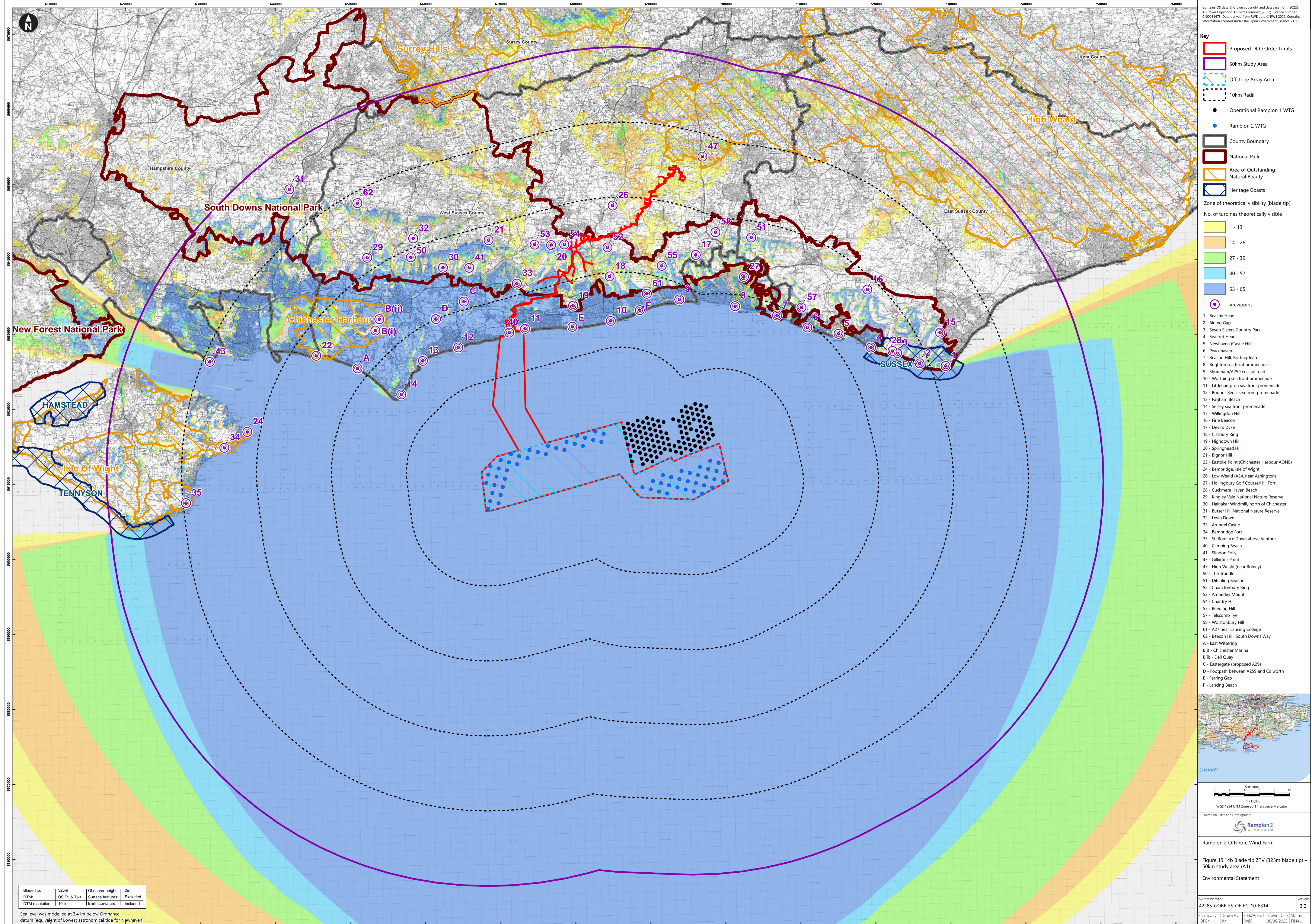
Rampion Extension Development

Rampion 2 Offshore Wind Farm

Figure 15.14a Blade tip ZTV (325m blade tip) – 50km study area (A3)

Environmental Statement

System Identifier:		Version:	
42285-GOBE-ES-OF-FG-10-4379		3.0	
Company:	Drawn By:	Chk/Prvrd:	Drawn Date:
OPEN	JM	WSP	06/06/2023
Status:		Status:	
FINAL		FINAL	

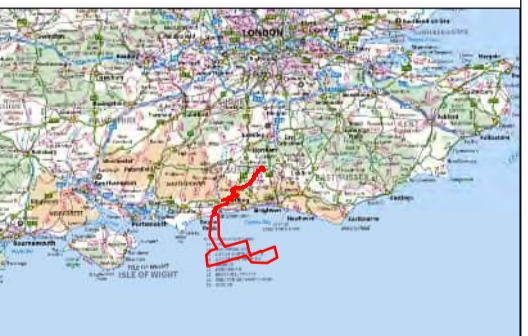


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- Key**
- Proposed DCO Order Limits
 - 50km Study Area
 - Offshore Array Area
 - 10km Radii
 - Operational Rampion 1 WTG
 - Rampion 2 WTG
 - County Boundary
 - National Park
 - Area of Outstanding Natural Beauty
 - Heritage Coasts
- Zone of theoretical visibility (blade tip)**
- 1 - 13
 - 14 - 26
 - 27 - 39
 - 40 - 52
 - 53 - 65
- Viewpoint**
- Viewpoint
- 1 - Beachy Head
 - 2 - Birling Gap
 - 3 - Seven Sisters Country Park
 - 4 - Seaford Head
 - 5 - Newhaven (Castle Hill)
 - 6 - Peacehaven
 - 7 - Beacon Hill, Rottingdean
 - 8 - Brighton sea front promenade
 - 9 - Shoreham/A259 coastal road
 - 10 - Worthing sea front promenade
 - 11 - Littlehampton sea front promenade
 - 12 - Bognor Regis sea front promenade
 - 13 - Pagham Beach
 - 14 - Selsey sea front promenade
 - 15 - Willingdon Hill
 - 16 - Firle Beacon
 - 17 - Devil's Dyke
 - 18 - Cissbury Ring
 - 19 - Highdown Hill
 - 20 - Springlead Hill
 - 21 - Bignor Hill
 - 22 - Eastoke Point (Chichester Harbour AONB)
 - 24 - Bembridge, Isle of Wight
 - 26 - Low Weald (A24, near Ashington)
 - 27 - Hollingbury Golf Course/Hill Fort
 - 28 - Cuckmere Haven Beach
 - 29 - Kingley Vale National Nature Reserve
 - 30 - Halknaker Windmill, north of Chichester
 - 31 - Butser Hill National Nature Reserve
 - 32 - Levin Down
 - 33 - Arundel Castle
 - 34 - Bembridge Fort
 - 35 - St. Boniface Down above Ventnor
 - 40 - Climping Beach
 - 41 - Slindon Folly
 - 43 - Gickicker Point
 - 47 - High Weald (near Bolney)
 - 50 - The Trundle
 - 51 - Ditchling Beacon
 - 52 - Chantonsbury Ring
 - 53 - Amberley Mount
 - 54 - Chantry Hill
 - 55 - Beeding Hill
 - 57 - Telcomb Tye
 - 58 - Wistonbury Hill
 - 61 - A27 near Lancing College
 - 62 - Beacon Hill, South Downs Way
 - A - East Wittering
 - B(i) - Chichester Marina
 - B(ii) - Dell Quay
 - C - Eastergate (proposed A29)
 - D - Footpath between A259 and Colworth
 - E - Ferring Gap
 - F - Lancing Beach

Blade Tip: 325m | Observer height: 2m
 DTM: OS T5 & T50 | Surface features: Excluded
 DTM resolution: 10m | Earth curvature: Included

Sea level was modelled at 3.41m below Ordnance datum (equivalent of Lowest astronomical tide for Newhaven)



CHANNEL

0 2 4 6 8 10
 Kilometers
 1:215,000
 WGS 1984 UTM Zone 30N Transverse Mercator

Rampion Extension Development

Rampion 2 WIND FARM

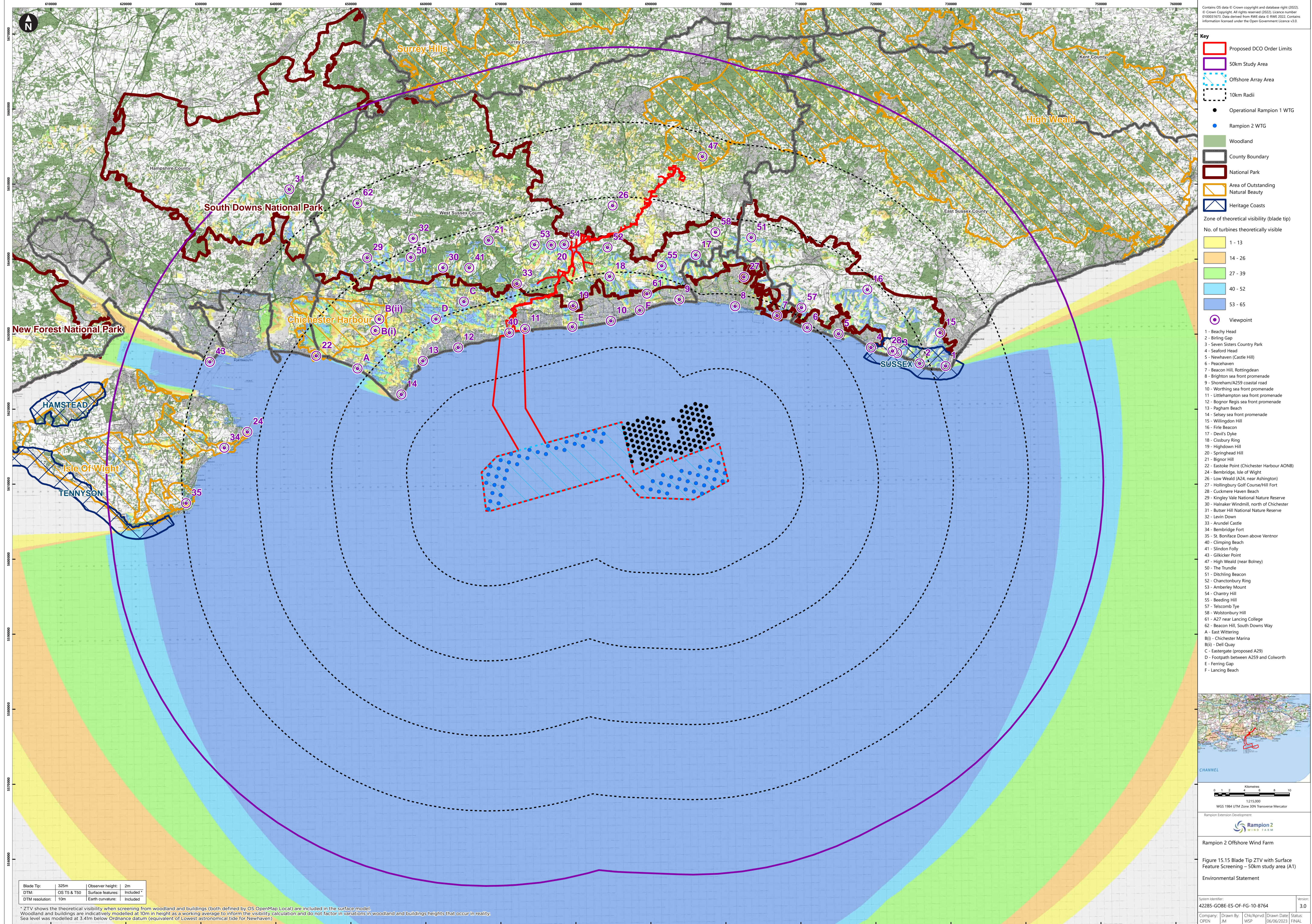
Rampion 2 Offshore Wind Farm

Figure 15.14b Blade tip ZTV (325m blade tip) – 50km study area (A1)

Environmental Statement

System Identifier:	42285-GOBE-ES-OF-FG-10-6314	Version:	3.0
Company:	OPEN	Drawn By:	WSP
Drawn By:	WSP	Drawn Date:	06/06/2023
Drawn Date:	06/06/2023	Status:	FINAL

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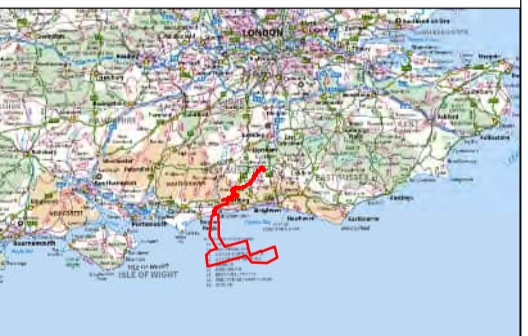


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- Key**
- Proposed DCO Order Limits
 - 50km Study Area
 - Offshore Array Area
 - 10km Radii
 - Operational Rampion 1 WTG
 - Rampion 2 WTG
 - Woodland
 - County Boundary
 - National Park
 - Area of Outstanding Natural Beauty
 - Heritage Coasts
- Zone of theoretical visibility (blade tip)**
- No. of turbines theoretically visible**
- 1 - 13
 - 14 - 26
 - 27 - 39
 - 40 - 52
 - 53 - 65
- Viewpoint**
- 1 - Beachy Head
 - 2 - Birling Gap
 - 3 - Seven Sisters Country Park
 - 4 - Seaford Head
 - 5 - Newhaven (Castle Hill)
 - 6 - Peacehaven
 - 7 - Beacon Hill, Rottingdean
 - 8 - Brighton sea front promenade
 - 9 - Shoreham/A259 coastal road
 - 10 - Worthing sea front promenade
 - 11 - Littlehampton sea front promenade
 - 12 - Bognor Regis sea front promenade
 - 13 - Pagham Beach
 - 14 - Selsey sea front promenade
 - 15 - Willingdon Hill
 - 16 - Firle Beacon
 - 17 - Devil's Dyke
 - 18 - Cissbury Ring
 - 19 - Highdown Hill
 - 20 - Springhead Hill
 - 21 - Bignor Hill
 - 22 - Eastoke Point (Chichester Harbour AONB)
 - 24 - Bembridge, Isle of Wight
 - 26 - Low Weald (A24, near Ashington)
 - 27 - Hollingbury Golf Course/Hill Fort
 - 28 - Cuckmere Haven Beach
 - 29 - Kingley Vale National Nature Reserve
 - 30 - Hainaker Windmill, north of Chichester
 - 31 - Butser Hill National Nature Reserve
 - 32 - Levin Down
 - 33 - Arundel Castle
 - 34 - Bembridge Fort
 - 35 - St. Boniface Down above Ventnor
 - 40 - Climping Beach
 - 41 - Slindon Folly
 - 43 - Gilkicker Point
 - 47 - High Weald (near Bolney)
 - 50 - The Trundle
 - 51 - Ditchling Beacon
 - 52 - Chantebury Ring
 - 53 - Amberley Mount
 - 54 - Chantry Hill
 - 55 - Beeding Hill
 - 57 - Telscomb Tye
 - 58 - Wolstonbury Hill
 - 61 - A27 near Lancing College
 - 62 - Beacon Hill, South Downs Way
 - A - East Wittering
 - B(i) - Chichester Marina
 - B(ii) - Dell Quay
 - C - Eastgate (proposed A29)
 - D - Footpath between A259 and Colworth
 - E - Ferring Gap
 - F - Lancing Beach

Blade Tip:	325m	Observer height:	2m
DTM:	OS T5 & T50	Surface features:	Included*
DTM resolution:	10m	Earth curvature:	Included

* ZTV shows the theoretical visibility when screening from woodland and buildings (both defined by OS OpenMap Local) are included in the surface model. Woodland and buildings are indicatively modelled at 10m in height as a working average to inform the visibility calculation and do not factor in variations in woodland and buildings heights that occur in reality. Sea level was modelled at 3.41m below Ordnance datum (equivalent of Lowest astronomical tide for Newhaven).



CHANNEL

0 2 4 6 8 10
 Kilometers

1215,000
 WGS 1984 UTM Zone 30N Transverse Mercator

Rampion Extension Development

Rampion 2 WIND FARM

Rampion 2 Offshore Wind Farm

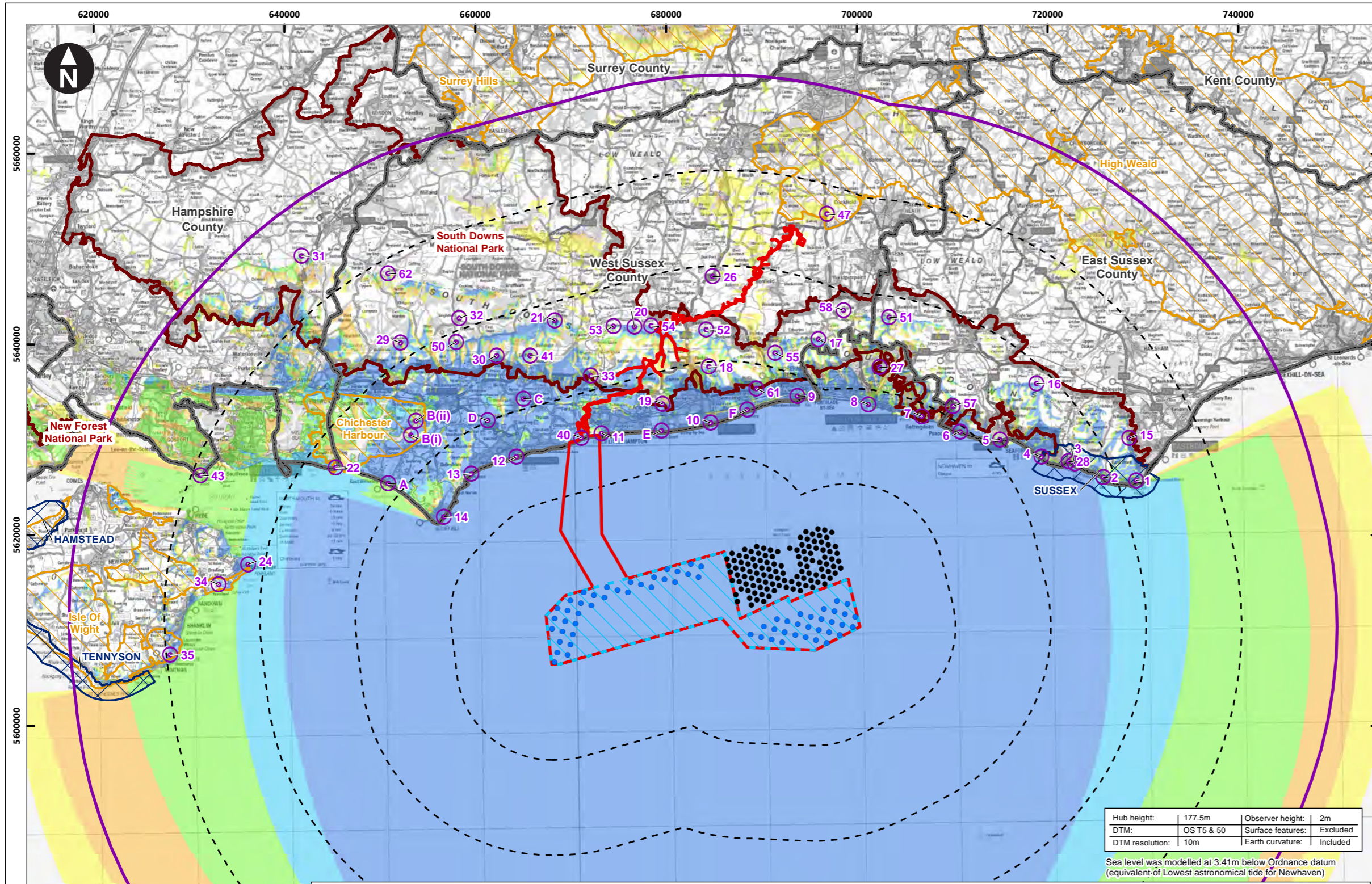
Figure 15.15 Blade Tip ZTV with Surface Feature Screening – 50km study area (A1)

Environmental Statement

System Identifier: 42285-GOBE-ES-OF-FG-10-8764 Version: 3.0

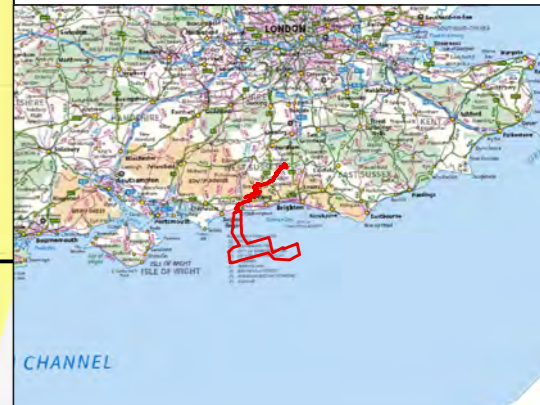
Company:	Drawn By:	Chk/Aprv'd:	Drawn Date:	Status:
OPEN	JM	WSP	06/06/2023	FINAL

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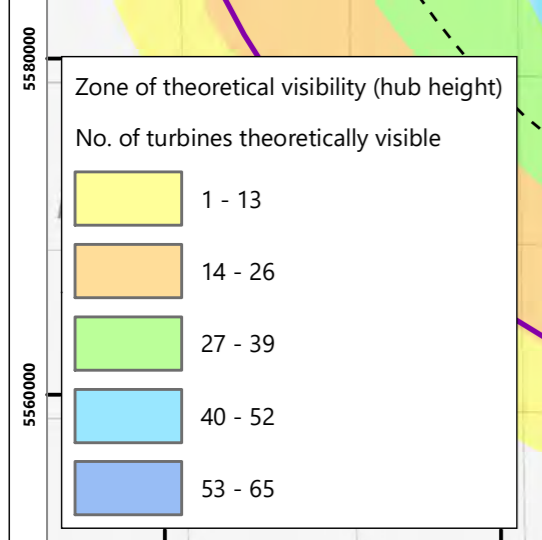
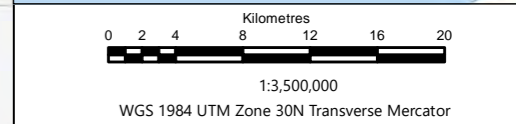
Key

- Proposed DCO Order Limits
- 50km Study Area
- Offshore Array Area
- 10km Radii
- Rampion 2 WTG
- Operational Rampion 1 WTG
- ⊙ Viewpoint
- County boundary
- Heritage Coasts
- Area of Outstanding Natural Beauty
- National Park



Hub height:	177.5m	Observer height:	2m
DTM:	OS T5 & 50	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

Sea level was modelled at 3.41m below Ordnance datum (equivalent of Lowest astronomical tide for Newhaven)



Viewpoints

1 - Beachy Head	15 - Willingdon Hill	31 - Butser Hill National Nature Reserve	55 - Beeding Hill
2 - Birling Gap	16 - Firle Beacon	32 - Levin Down	57 - Telscomb Tye
3 - Seven Sisters Country Park	17 - Devil's Dyke	33 - Arundel Castle	58 - Wolstonbury Hill
4 - Seaford Head	18 - Cissbury Ring	34 - Bembridge Fort	61 - A27 near Lancing College
5 - Newhaven (Castle Hill)	19 - Highdown Hill	35 - St. Boniface Down above Ventnor	62 - Beacon Hill, South Downs Way
6 - Peacehaven	20 - Springhead Hill	40 - Climping Beach	A - East Wittering
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9 - Shoreham/A259 coastal road	24 - Bembridge, Isle of Wight	47 - High Weald (near Bolney)	C - Eastergate (proposed A29)
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12 - Bognor Regis sea front promenade	28 - Cuckmere Haven Beach	52 - Chanctonbury Ring	F - Lancing Beach
13 - Pagham Beach	29 - Kingley Vale National Nature Reserve	53 - Amberley Mount	
14 - Selsey sea front promenade	30 - Halnaker Windmill, north of Chichester	54 - Chantry Hill	

Rampion Extension Development

Rampion 2 Offshore Wind Farm

Figure 15.16 Hub height ZTV (177.5m hub height) – 50km study area (A3)

Environmental Statement

System Identifier: 42285-GOBE-ES-OF-FG-10-9906		Version: 3.0
Company: OPEN	Drawn By: JM	Chk/Prvrd: WSP
Drawn Date: 03/08/2023	Status: FINAL	