

Code: UKCAL-CWF-CON-EIA-RPT-00007-7D06

Volume 7D Caledonia South Appendices

Appendix 12-2 Seascape, Landscape and Visual Impact Assessment Figures

Caledonia Offshore Wind Farm Ltd

5th Floor Atria One, 144 Morrison Street, Edinburgh, EH3 8EX

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Volume 7D Appendix 12-2 Seascape, Landscape and Visual Impact Assessment Figures

Code	UKCAL-CWF-CON-EIA-RPT-00007-7D06
Revision	Issued
Date	18 October 2024

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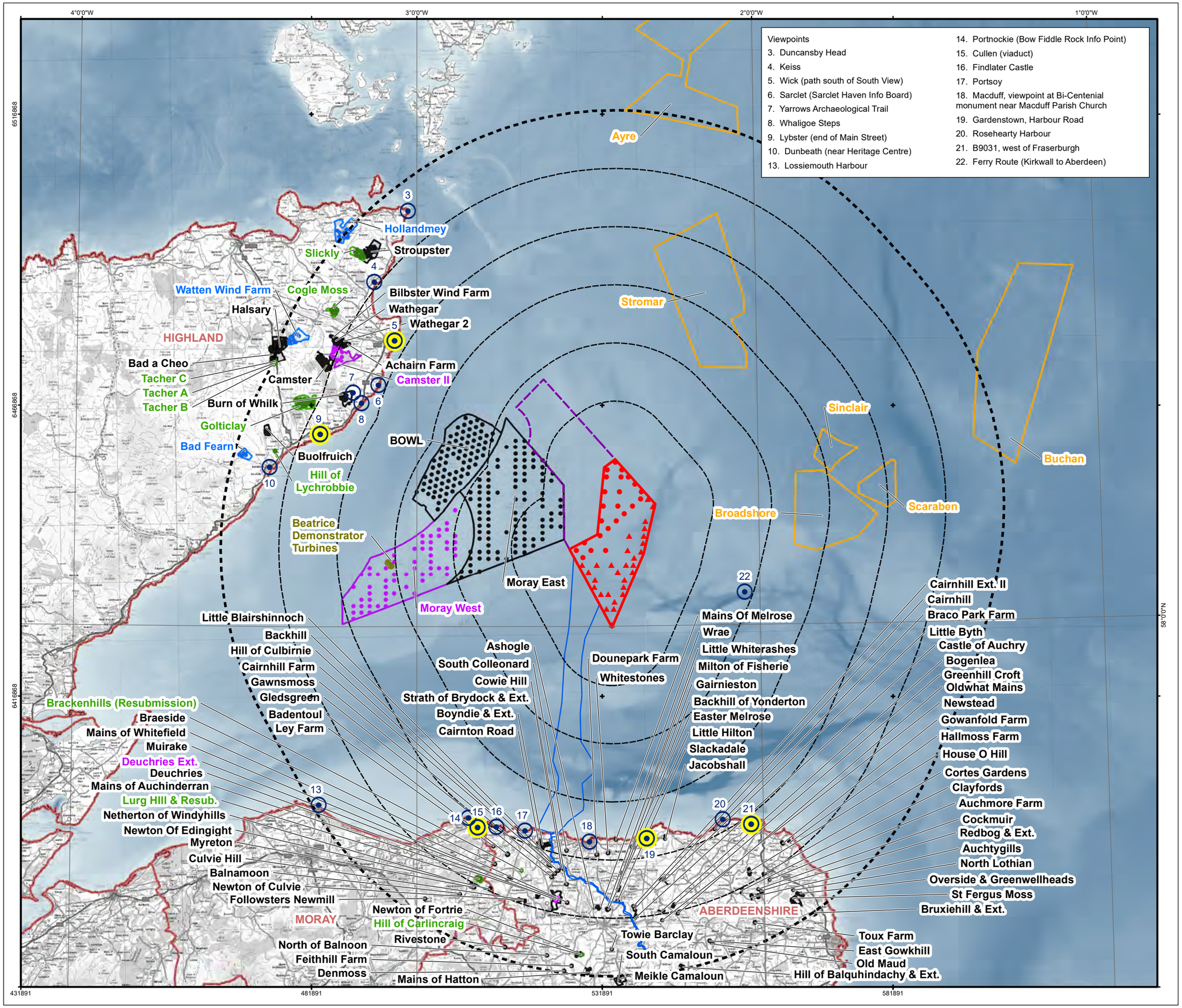
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Acronyms and Abbreviations

BOWL	Beatrice Offshore Windfarm Limited
BTZTV	Blade Tip Zone of Theoretical Visibility
HHZTV	Hub Height Zone of Theoretical Visibility
OSP	Offshore Substation Platform
RCCA	Regional Coastal Character Area
SLVIA	Seascape, Landscape and Visual Impact Assessment
ZTV	Zone of Theoretical Visibility



Caledonia South Fixed/Floating

- Fixed (24 x 25MW)
- Floating (29 x 20MW)
- Caledonia South
- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Night Viewpoint Location
- Local Authority Boundary

Cumulative Windfarms Status:

- Operational
- Under Construction
- Consented
- Appeal / Application
- Inactive / Decomissioned
- Operational
- Under Construction
- Consented
- Appeal / Application
- Scoping
- Inactive / Decomissioned

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0 5 10 15 20 km

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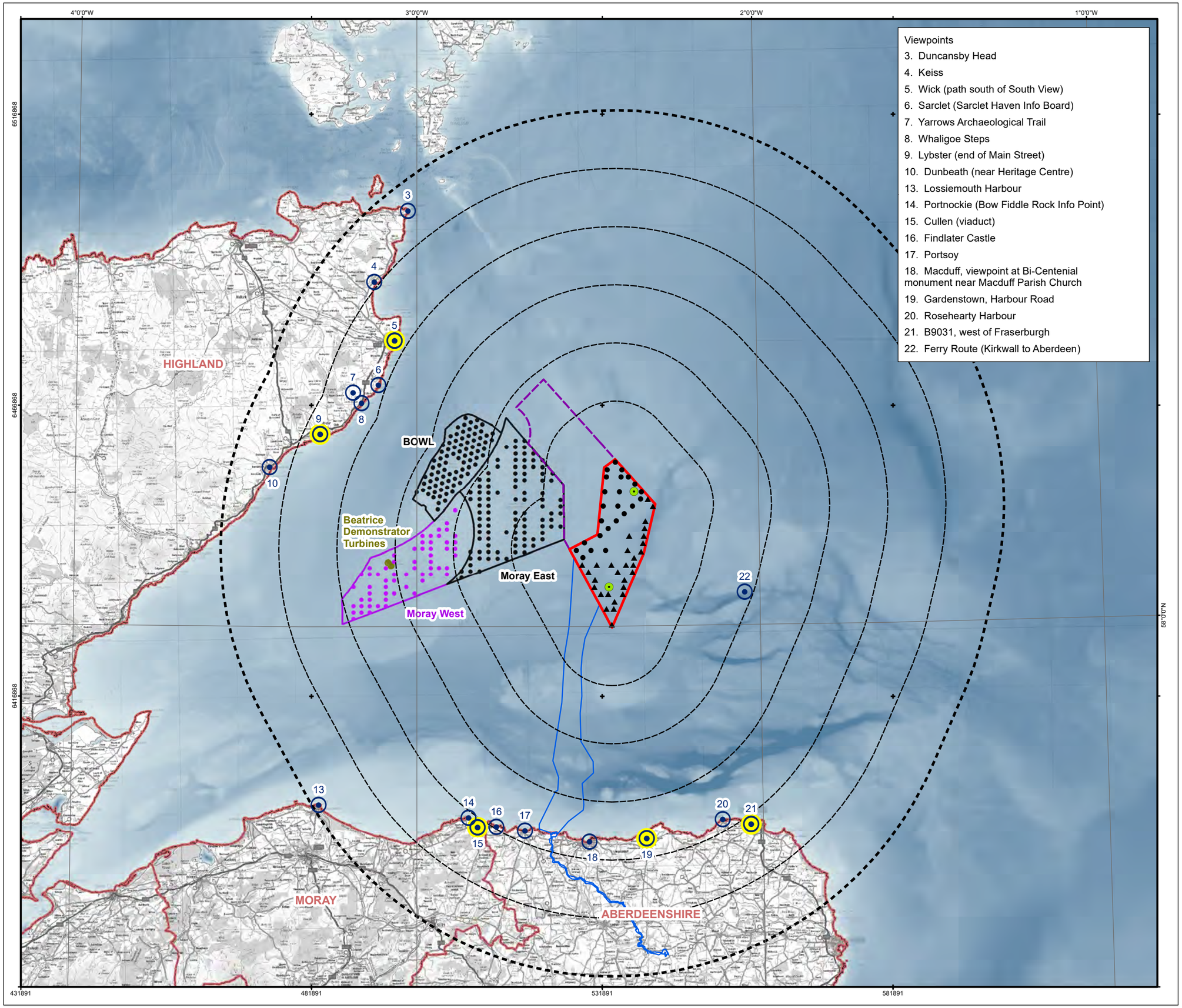
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GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)
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Figure 12-6 Cumulative Wind Farms Caledonia South

STATUS: Approved
SCALE: 1:620,000
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SHEET NO: 01 of 01
REV: N/A



Viewpoints

3. Duncansby Head
4. Keiss
5. Wick (path south of South View)
6. Sarclet (Sarclet Haven Info Board)
7. Yarrows Archaeological Trail
8. Whaligoe Steps
9. Lybster (end of Main Street)
10. Dunbeath (near Heritage Centre)
13. Lossiemouth Harbour
14. Portnockie (Bow Fiddle Rock Info Point)
15. Cullen (viaduct)
16. Findlater Castle
17. Portsoy
18. Macduff, viewpoint at Bi-Centenial monument near Macduff Parish Church
19. Gardenstown, Harbour Road
20. Rosehearty Harbour
21. B9031, west of Fraserburgh
22. Ferry Route (Kirkwall to Aberdeen)

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- 60km Study Area
- Day Viewpoint Location
- Night Viewpoint Location
- Local Authority Boundary

Offshore Windfarms (Baseline) Status:

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- Under Construction
- Inactive / Decomissioned
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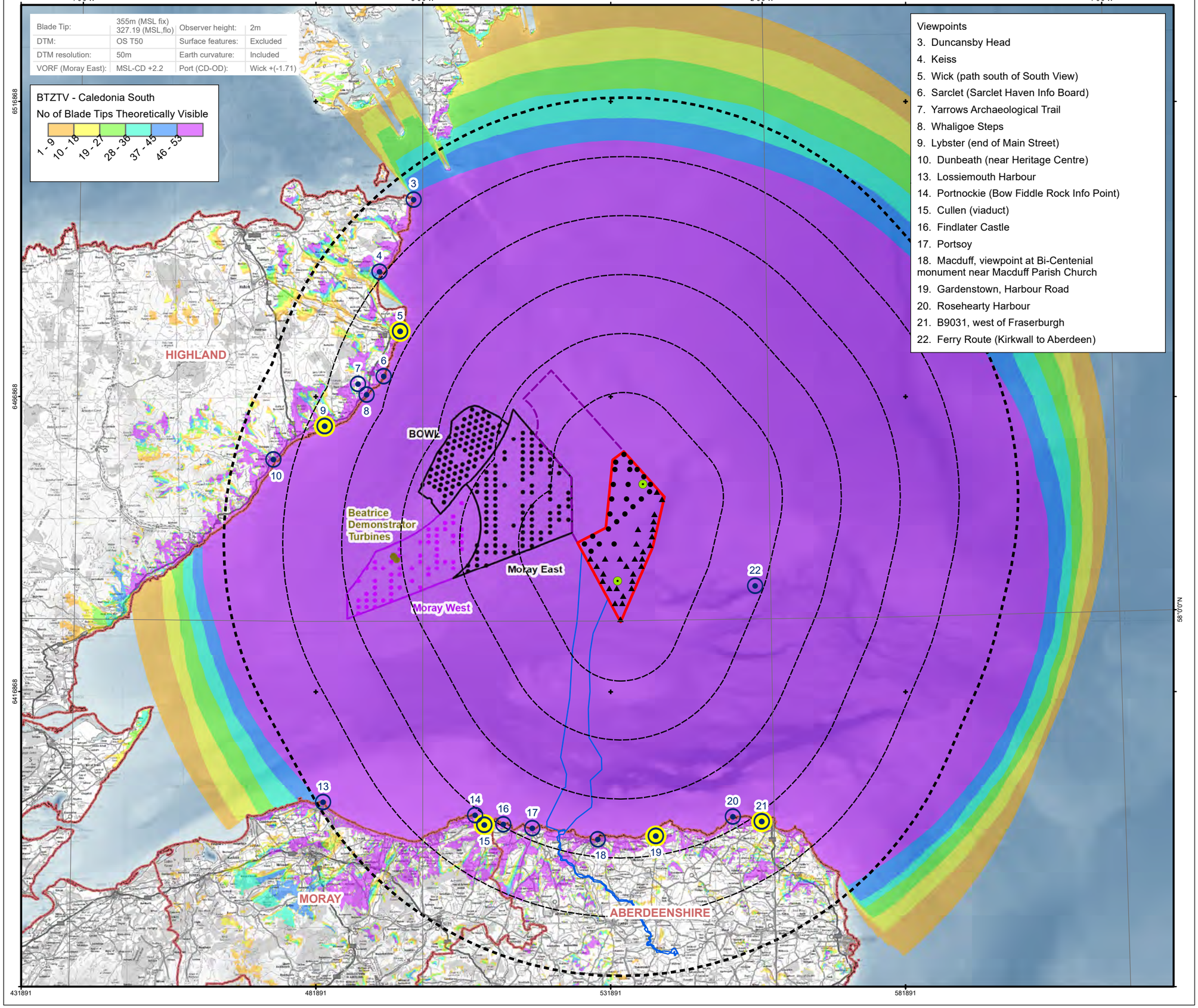
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Figure 12-7
SLVIA Worst Case Scenario
Caledonia South

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REV: N/A



Caledonia South Fixed/Floating

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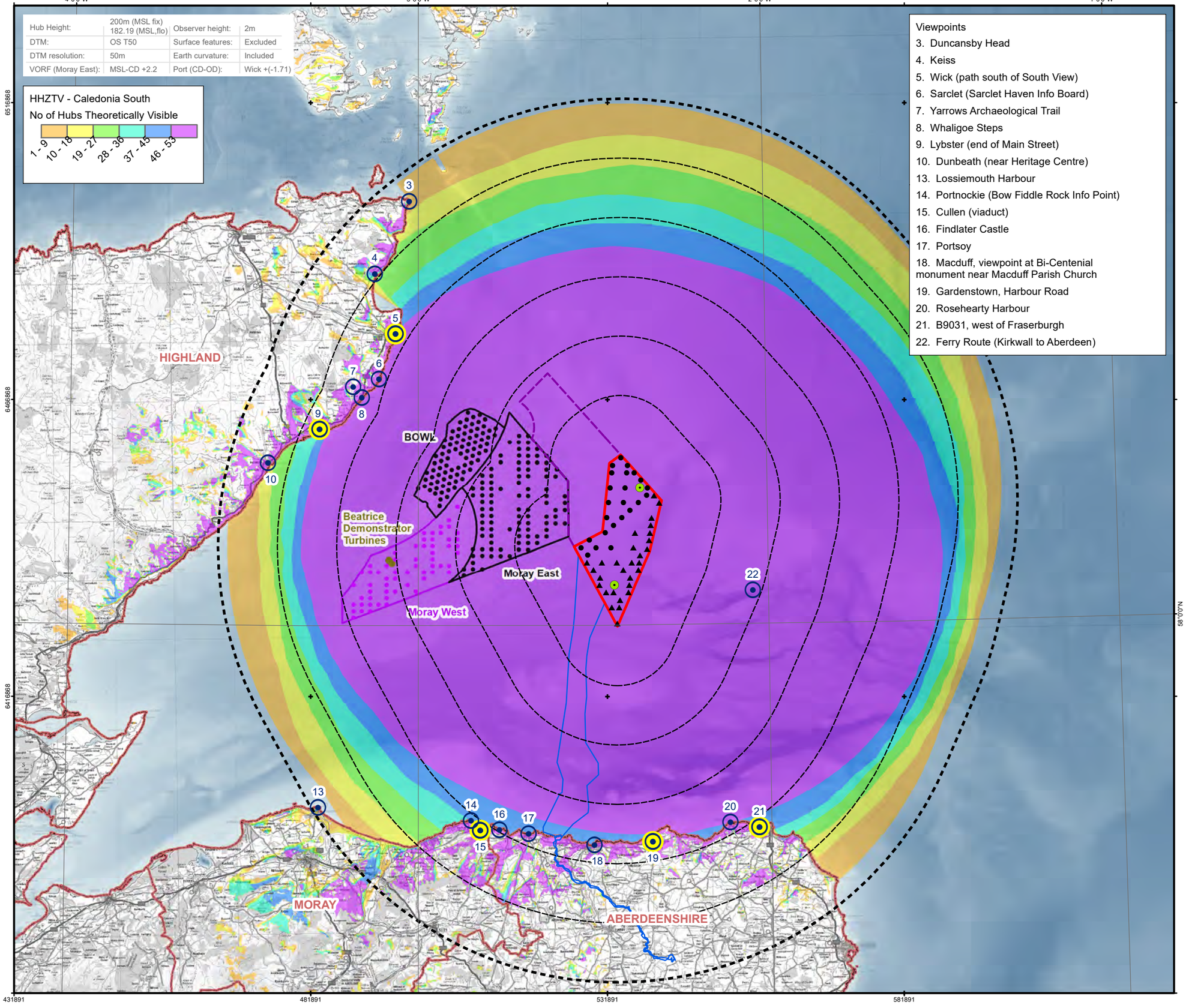
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Figure 12-8
Blade Tip ZTV with Viewpoint Locations Caledonia South

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Caledonia South Fixed/Floating

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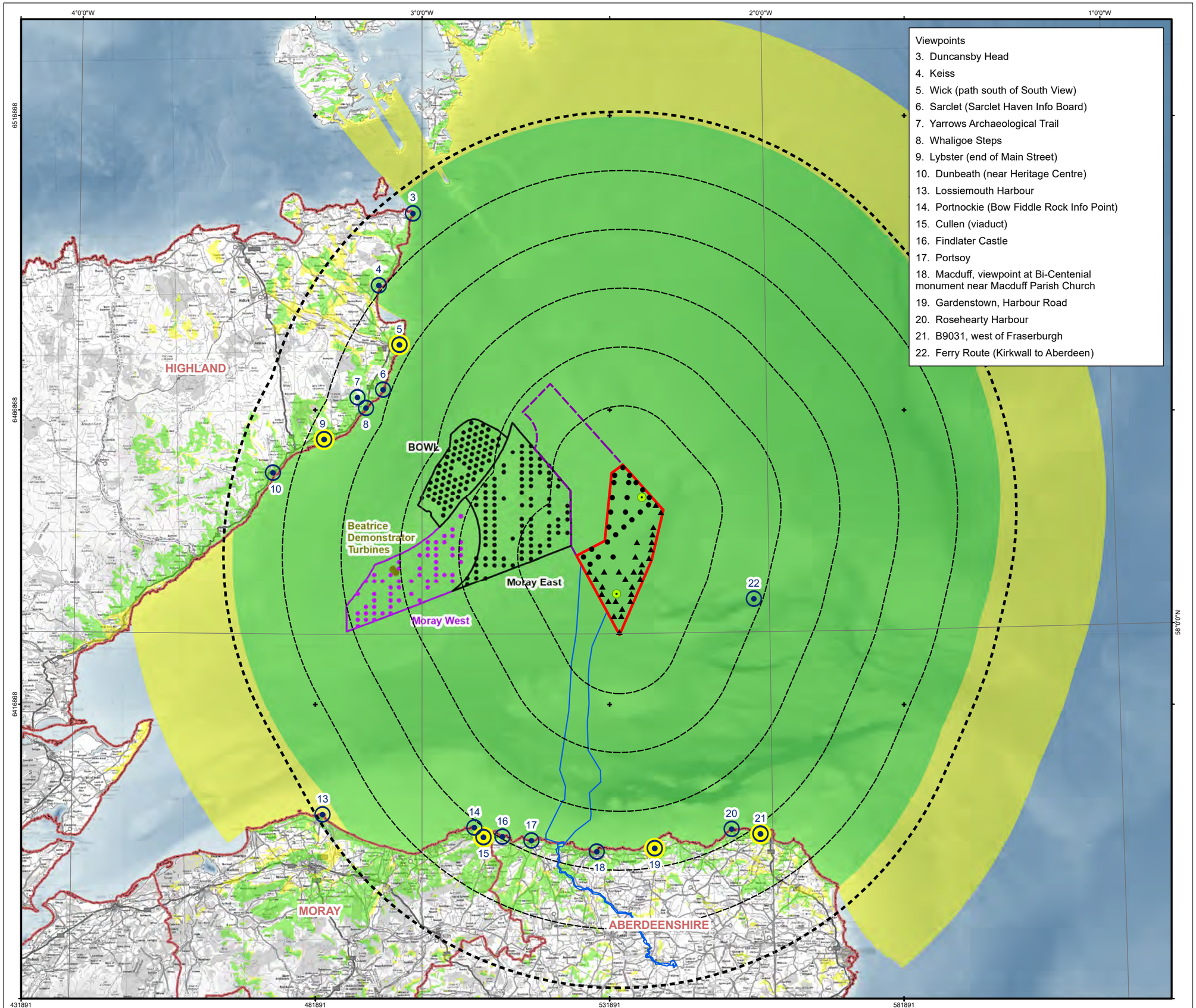
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Figure 12-9 Hub Height ZTV with Viewpoint Locations, Caledonia South

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Caledonia South Fixed/Floating

- Fixed (24 x 25MW)
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- 60km Study Area
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- Night Viewpoint Location
- Local Authority Boundary

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Comparative Visibility (Caledonia South)

- Blade Tips Theoretical Visibility
- Hubs Theoretical Visibility
- Combined Theoretical Visibility (Both Blade Tips and Hubs Visible)

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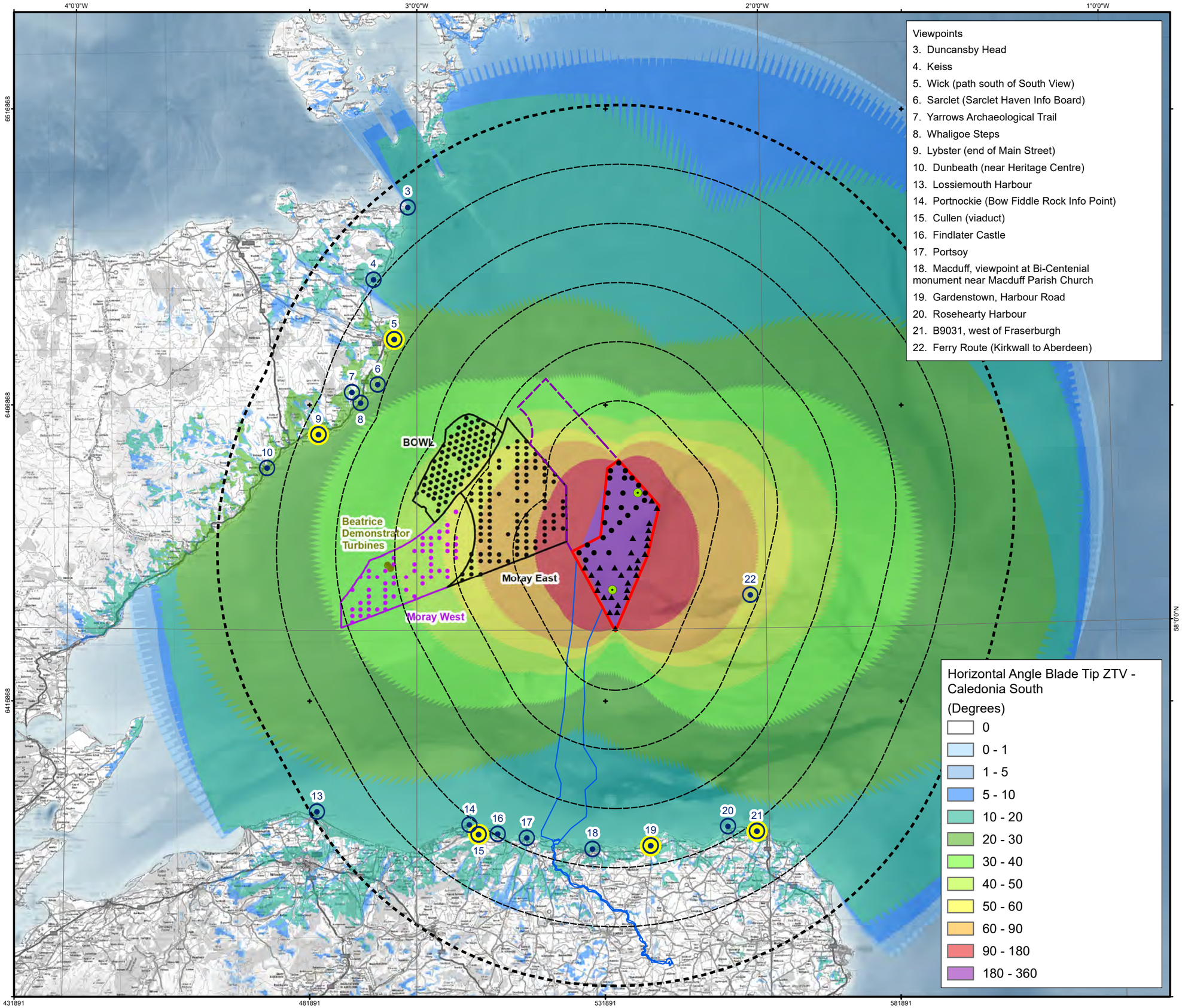
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Figure 12-10
Blade Tip and Hub Height ZTV Comparison, Caledonia South

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Caledonia South Fixed/Floating

- Fixed (24 x 25MW)
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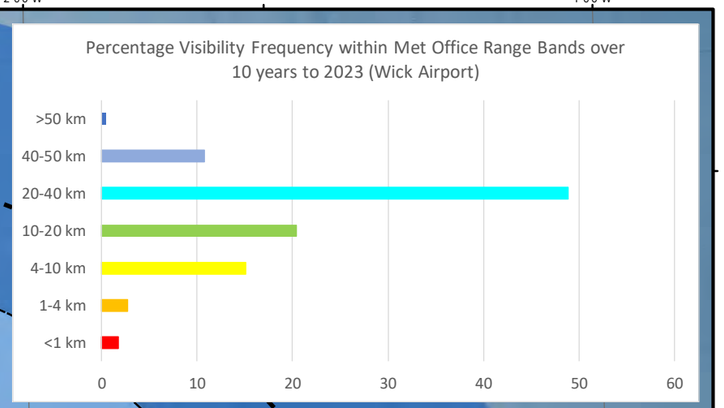
Figure 12-11 Horizontal Angle ZTV Caledonia South

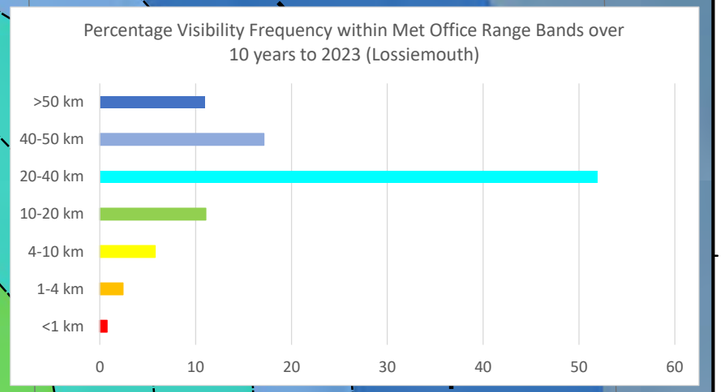
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Blade Tip:	355m (MSL fix) 327.19 (MSL,flo)	Observer height:	2m
DTM:	OS T50	Surface features:	Excluded
DTM resolution:	50m	Earth curvature:	Included
VORF (Moray East):	MSL-CD +2.2	Port (CD-OD):	Wick +(-1.71)

Met Office Visibility Range

- < 1km Very Poor Visibility
- 1 - 4km Poor Visibility
- 4 - 10km Moderate Visibility
- 10 - 20km Good Visibility
- 20 - 40km Very Good Visibility
- 40 - 50km Excellent Visibility
- > 50km Excellent Visibility





HIGHLAND

MORAY

ABERDEENSHIRE

BOWL

Beatrice Demonstrator Turbines

Moray East

Moray West

Viewpoints

3. Duncansby Head
4. Keiss
5. Wick (path south of South View)
6. Sarclet (Sarclet Haven Info Board)
7. Yarrows Archaeological Trail
8. Whaligoe Steps
9. Lybster (end of Main Street)
10. Dunbeath (near Heritage Centre)
13. Lossiemouth Harbour
14. Portnockie (Bow Fiddle Rock Info Point)
15. Cullen (viaduct)
16. Findlater Castle
17. Portsoy
18. Macduff, viewpoint at Bi-Centenial monument near Macduff Parish Church
19. Gardenstown, Harbour Road
20. Rosehearty Harbour
21. B9031, west of Fraserburgh
22. Ferry Route (Kirkwall to Aberdeen)

4°0'0"W 3°0'0"W 2°0'0"W 1°0'0"W

58°0'0"N

6516868 6466868 6416868

431891 481891 531891 581891

Caledonia South Fixed/Floating

- Fixed (24 x 25MW)
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- OSPs
- Caledonia South
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- 10km Radii
- 60km Study Area
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- Night Viewpoint Location
- Local Authority Boundary

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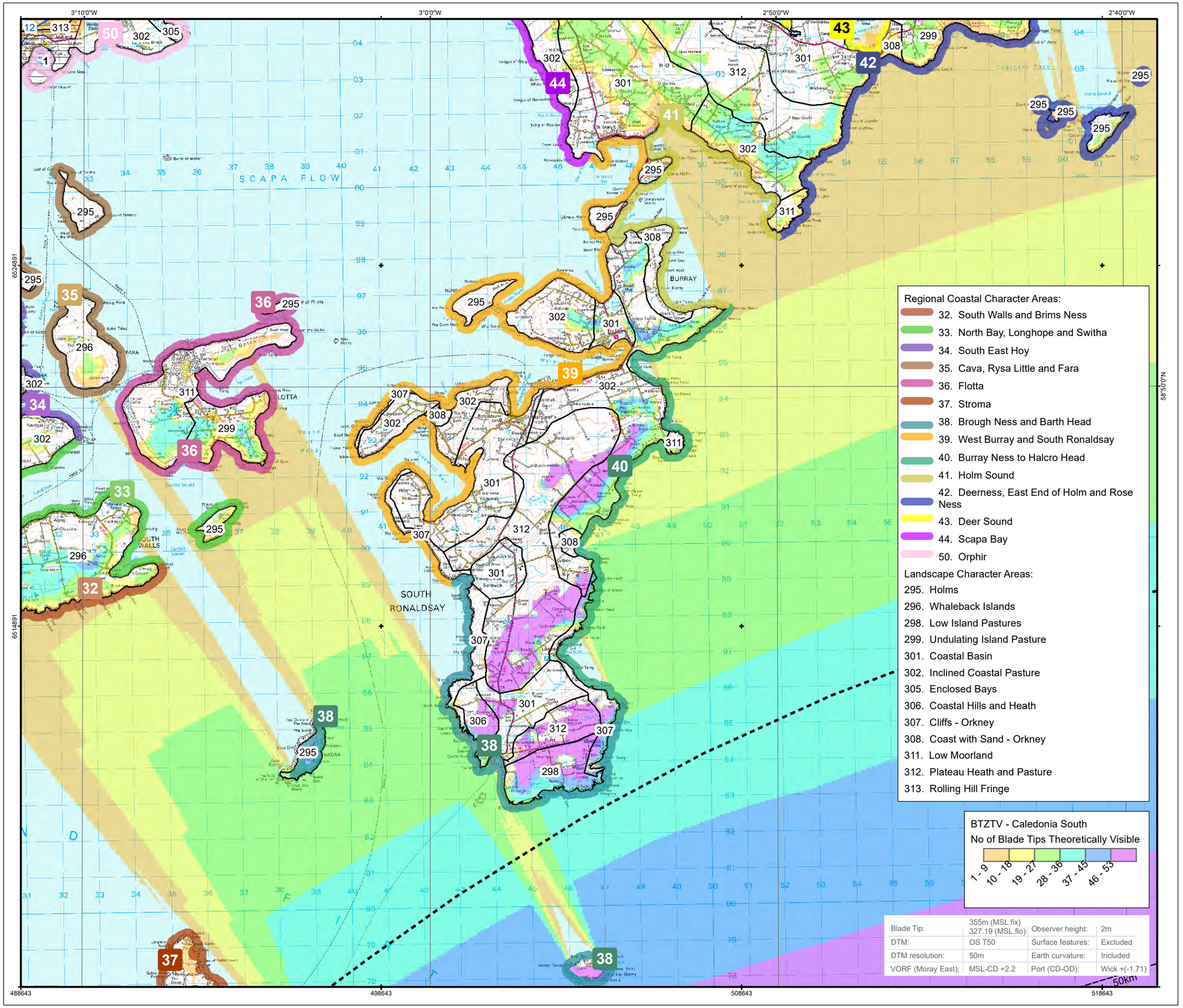
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Figure 12-12 Visibility Range Caledonia South

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Caledonia South Fixed/Floating

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- Floating (29 x 20MW)
- Caledonia South
- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area

Scottish Landscape Character Types, NatureScot (2019)

World Heritage Sites

1. Heart of Neolithic Orkney World Heritage Site Sensitive Area

National Scenic Area

12. Hoy and West Mainland

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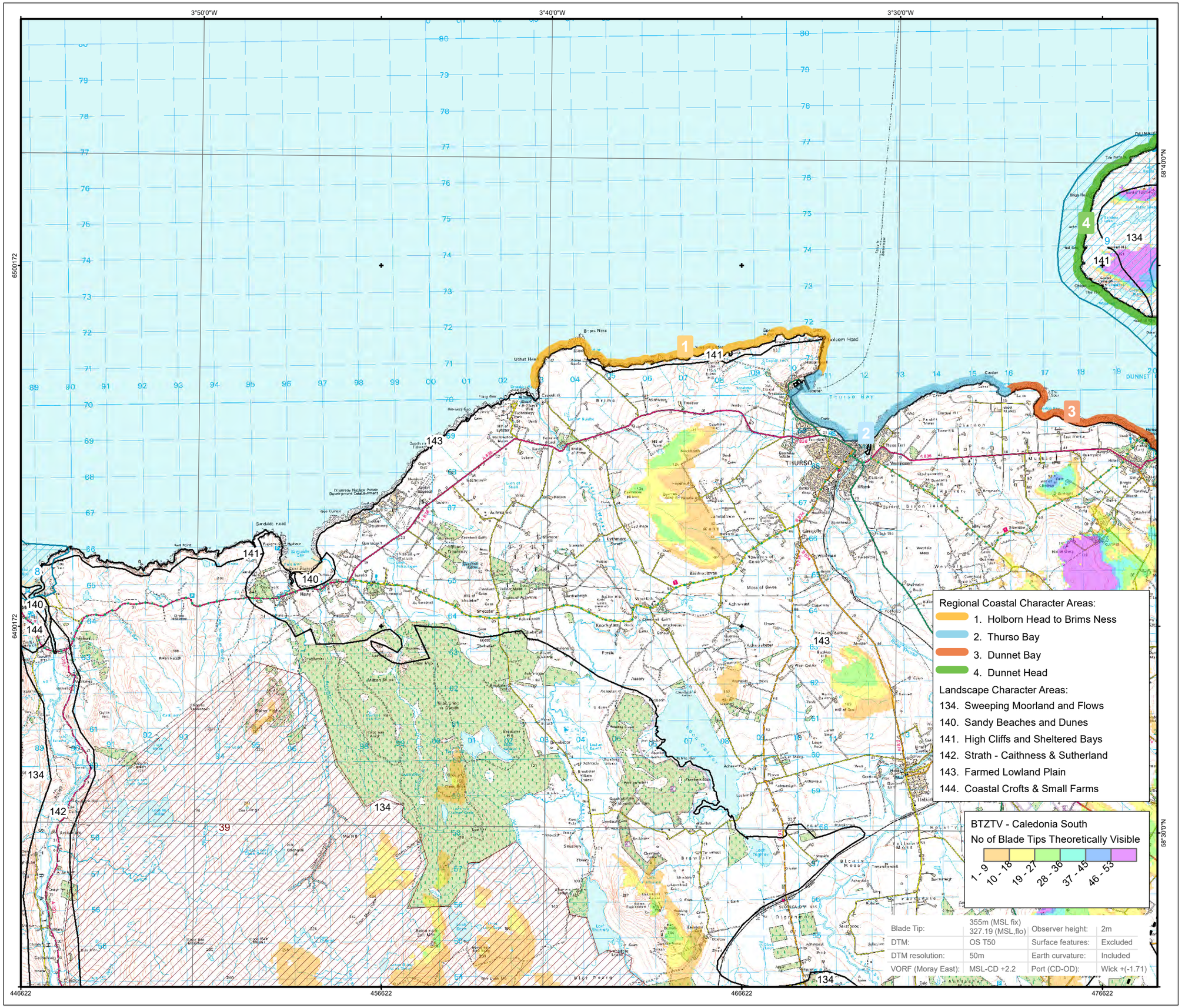
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Caledonia South Fixed/Floating

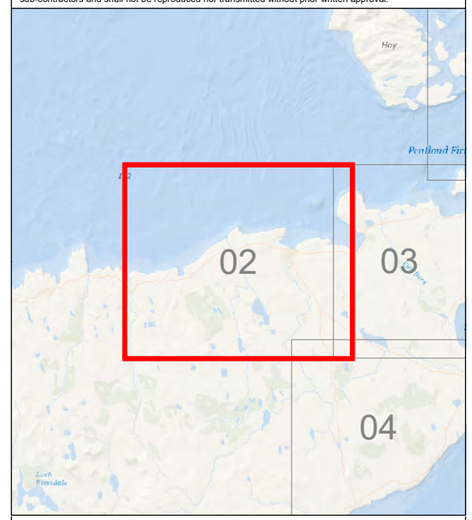
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- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area

Scottish Landscape Character Types, NatureScot (2019)

- Special Landscape Area
  - 8. Farr Bay, Strathy and Portskerra
  - 9. Dunnet Head
- Wild Land
  - 39. East Halladale Flows

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0 1 2 3 4 km

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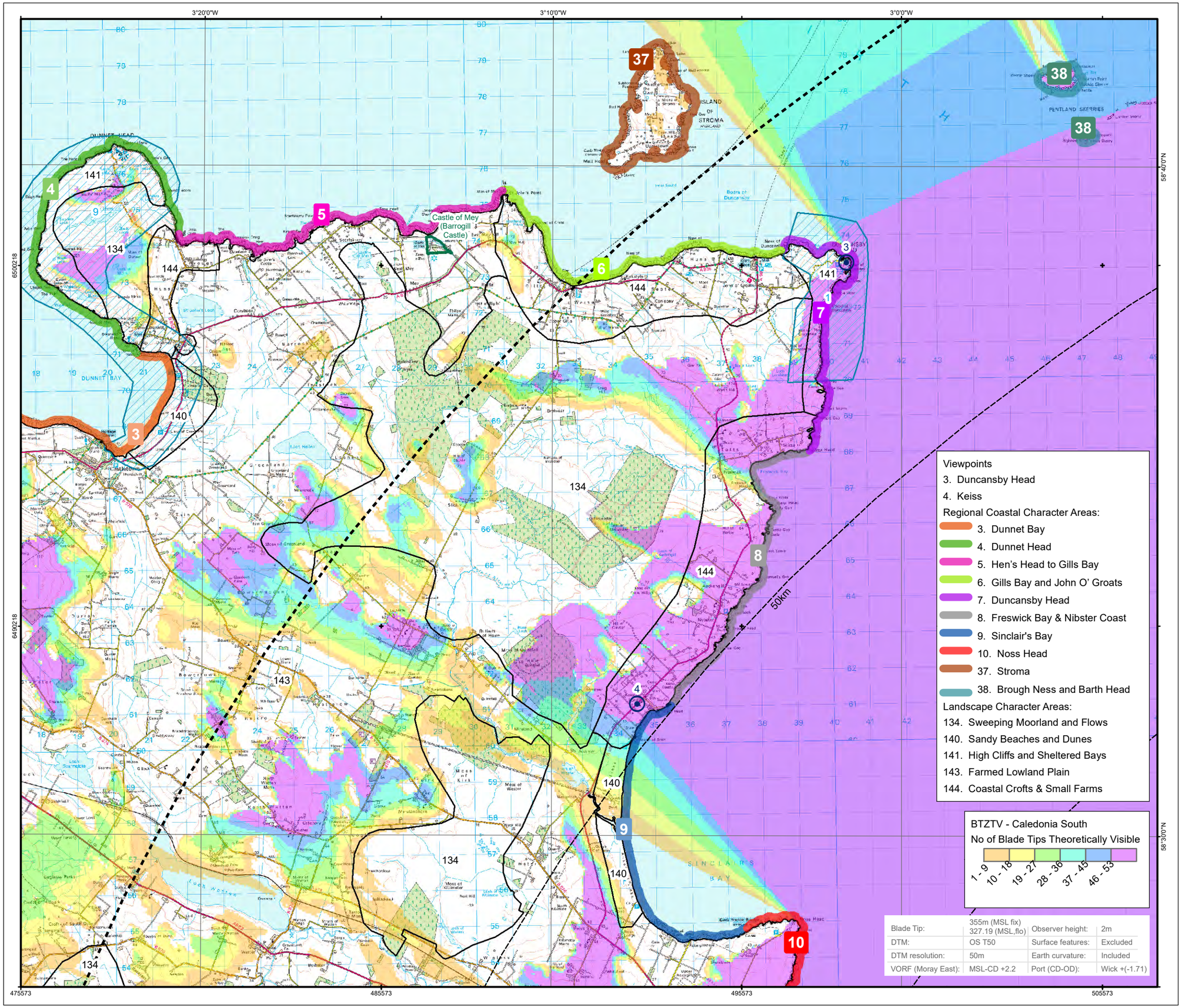
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Figure 12-13
Blade Tip ZTV(Western Study Area) with Designations, Character and RCCAs

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- Scottish Landscape Character Types, NatureScot (2019)
- Special Landscape Area
  1. Duncansby Head
  9. Dunnet Head
- Garden and Designed Landscape

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03	26/09/2024	Approved	RH	LT	LT
02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT

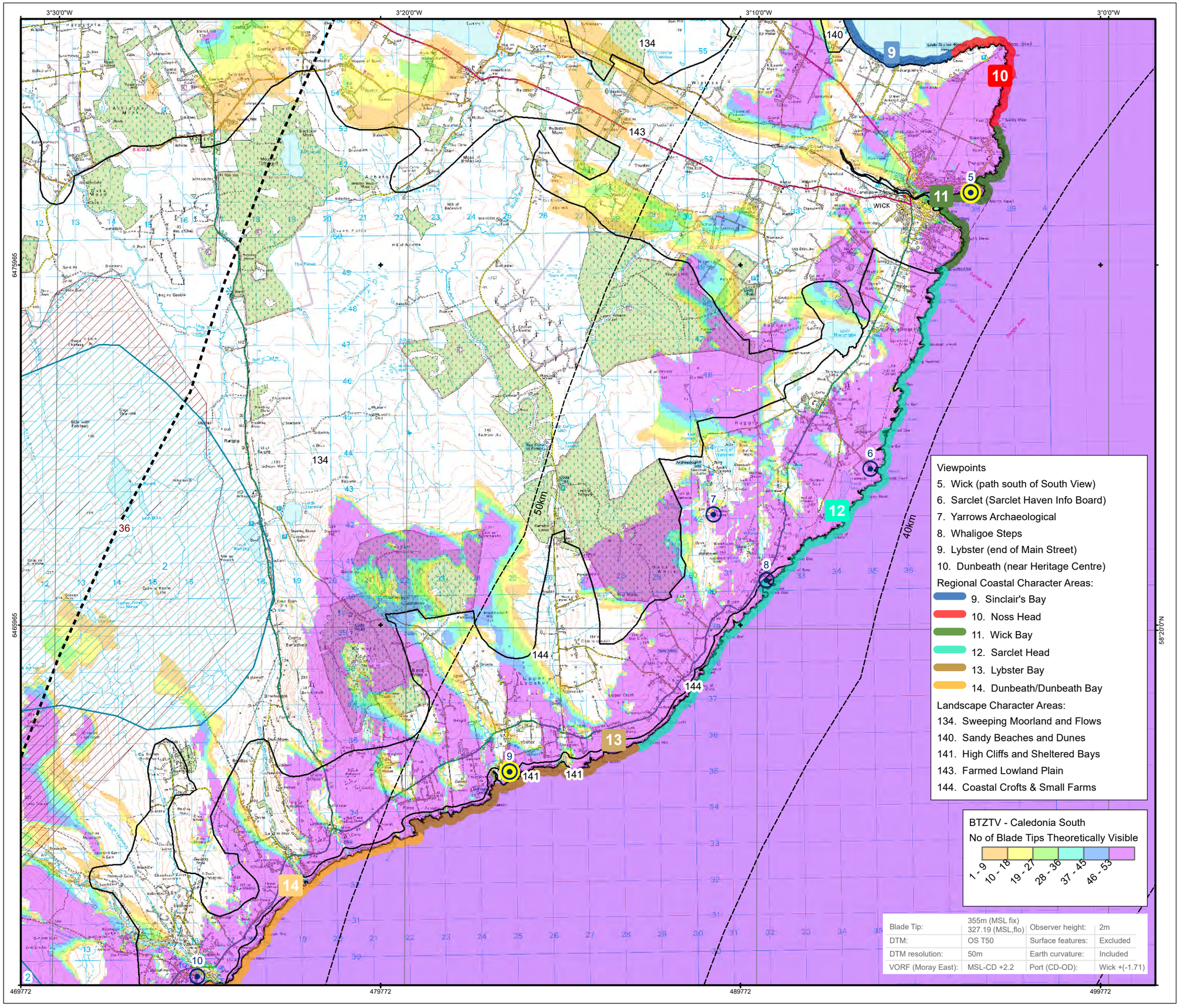
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CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00065
CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)
DRAWING TITLE

Figure 12-13
Blade Tip ZTV(Western Study Area) with Designations, Character and RCCAs

STATUS: Approved
SCALE: 1:100,000
DRAWING NUMBER: N/A
SHEET NO: 03 of 06
REV: N/A

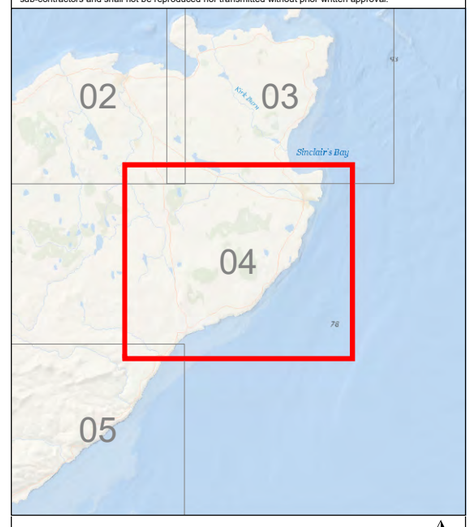


Caledonia South Fixed/Floating

- Fixed (24 x 25MW)
- Floating (29 x 20MW)
- Caledonia South
- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Night Viewpoint Location
- Scottish Landscape Character Types, NatureScot (2019)
- Special Landscape Area
  - 2. Flow Country and Berriedale Coast
- Wild Land
  - 36. Causeymire - Knockfin Flows

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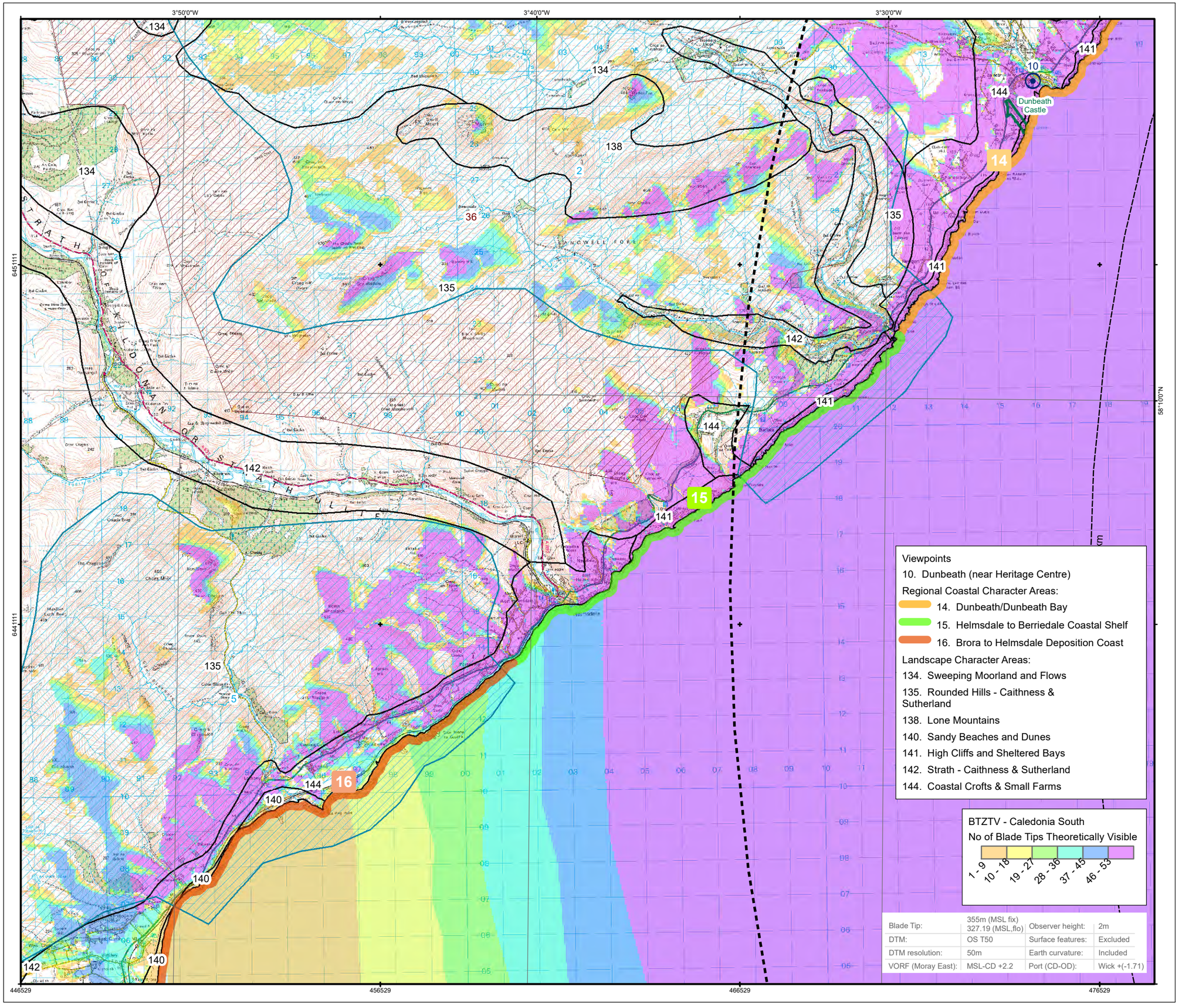
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CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00066
CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)
DRAWING TITLE

Figure 12-13
Blade Tip ZTV(Western Study Area) with Designations, Character and RCCAs

STATUS: Approved
SCALE: 1:100,000
DRAWING NUMBER: N/A
SHEET NO: 04 of 06
REV: N/A

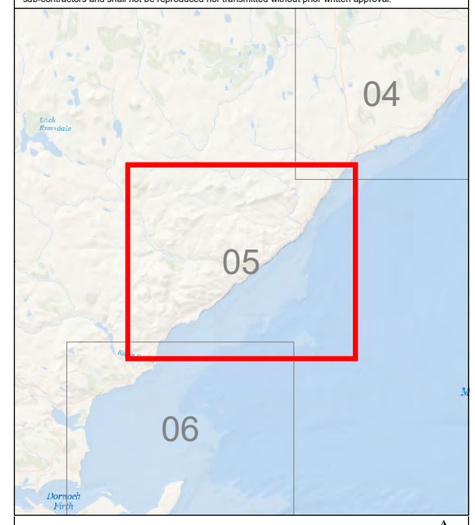


Caledonia South Fixed/Floating

- Fixed (24 x 25MW)
- Floating (29 x 20MW)
- Caledonia South
- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Scottish Landscape Character Types, NatureScot (2019)
- Special Landscape Area
  - 2. Flow Country and Berriedale Coast
  - 5. Loch Fleet, Loch Brora and Glen Loth
- Wild Land
  - 36. Causeymire - Knockfin Flows
- Garden and Designed Landscape

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02	10/07/2024	For Review	RH	LT	LT
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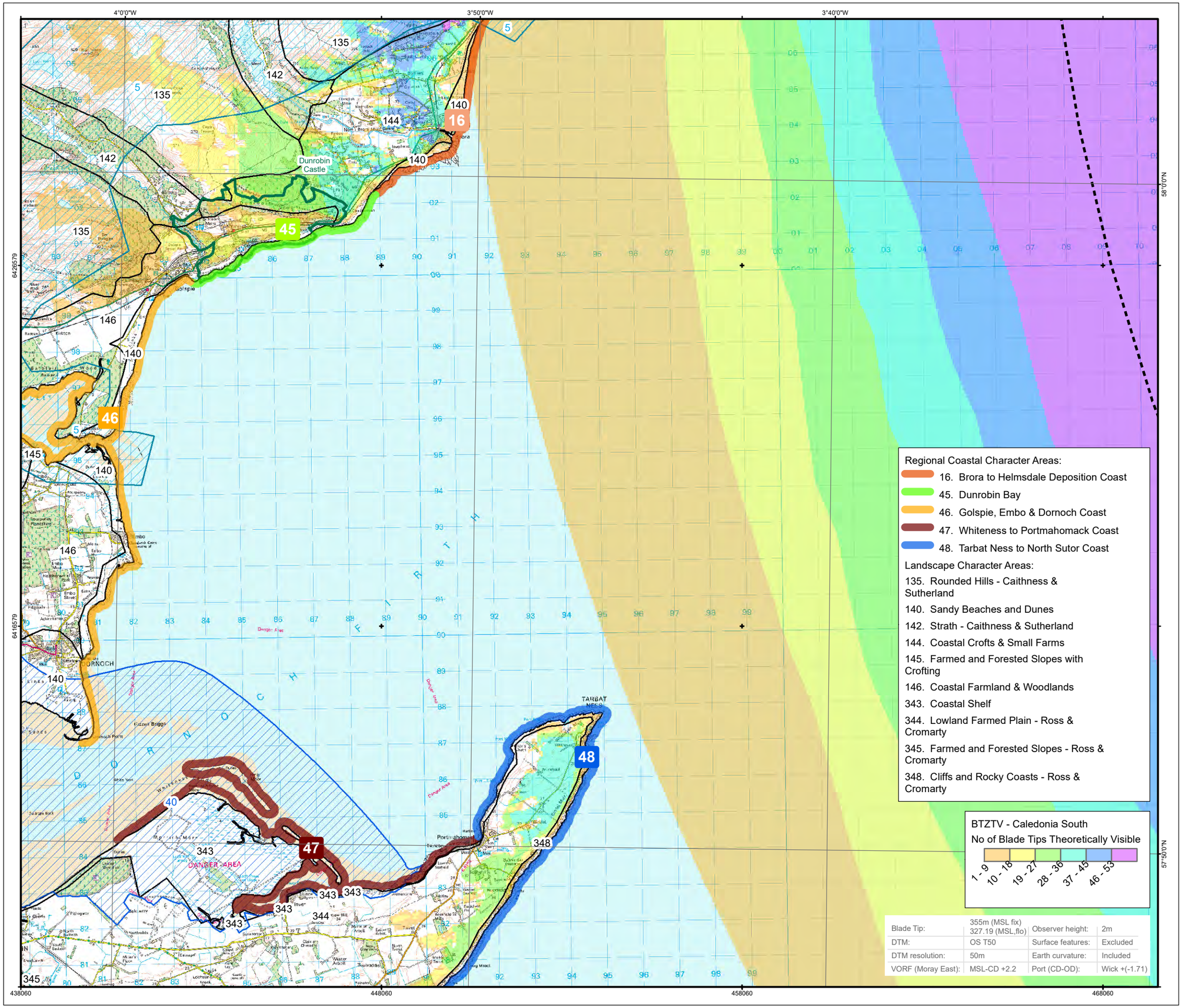
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CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00067
CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)
DRAWING TITLE

Figure 12-13
Blade Tip ZTV(Western Study Area) with Designations, Character and RCCAs

STATUS: Approved
SCALE: 1:100,000
DRAWING NUMBER: N/A
SHEET NO: 05 of 06
REV: N/A

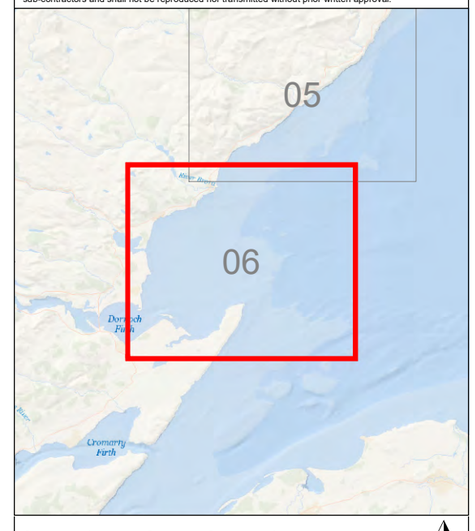


Caledonia South Fixed/Floating

- Fixed (24 x 25MW)
- Floating (29 x 20MW)
- Caledonia South
- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Scottish Landscape Character Types, NatureScot (2019)
- National Scenic Area
  - 40. Dornoch Firth
- Special Landscape Area
  - 5. Loch Fleet, Loch Brora and Glen Loth
- Garden and Designed Landscape

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02	10/07/2024	For Review	RH	LT	LT
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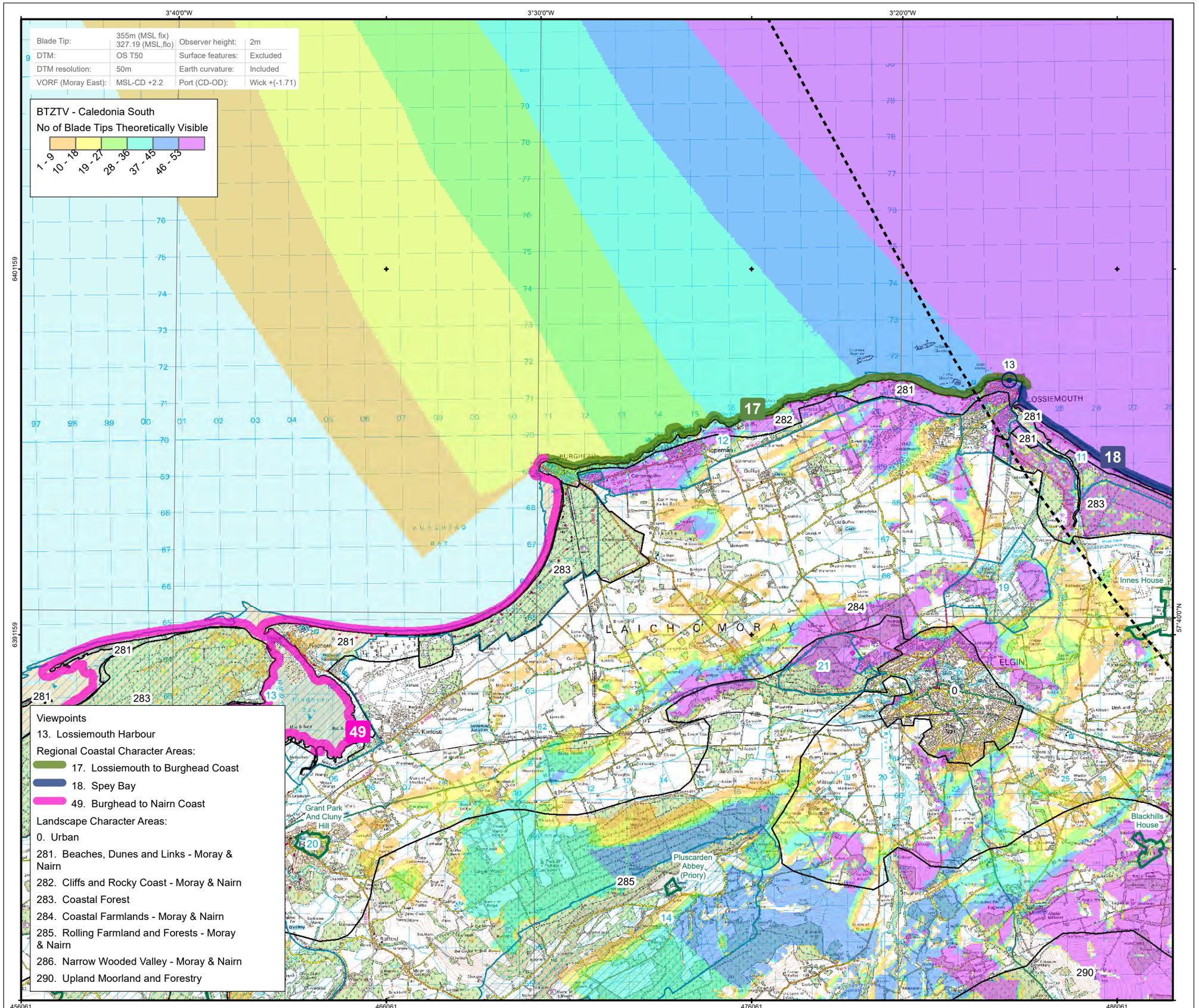
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CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00068	CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)	

DRAWING TITLE

Figure 12-13
Blade Tip ZTV(Western Study Area) with Designations, Character and RCCAs

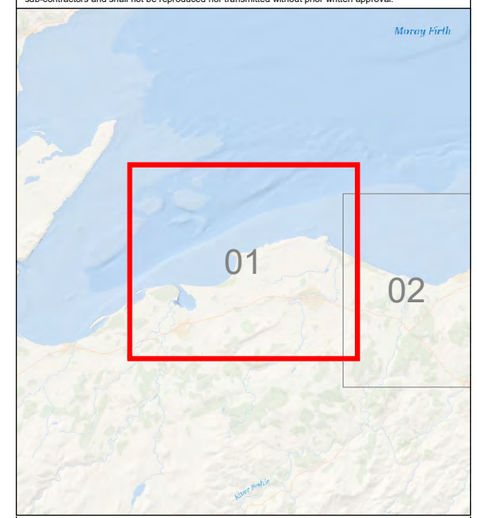
STATUS: Approved	SCALE: 1:100,000	
DRAWING NUMBER: N/A	SHEET NO: 06 of 06	REV: N/A



Caledonia South Fixed/Floating

- Fixed (24 x 25MW)
- Floating (29 x 20MW)
- Caledonia South
- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Scottish Landscape Character Types, NatureScot (2019)
- Special Landscape Area
  - 11. Lossiemouth to Portgordon Coast
  - 12. Burghead to Lossiemouth Coast
  - 13. Culbin to Burghead Coast
  - 14. Pluscarden Valley
  - 17. Findhorn Valley and the Wooded Estates
  - 19. Spynie
  - 20. Cluny Hill
  - 21. Quarrelwood
- Garden and Designed Landscape

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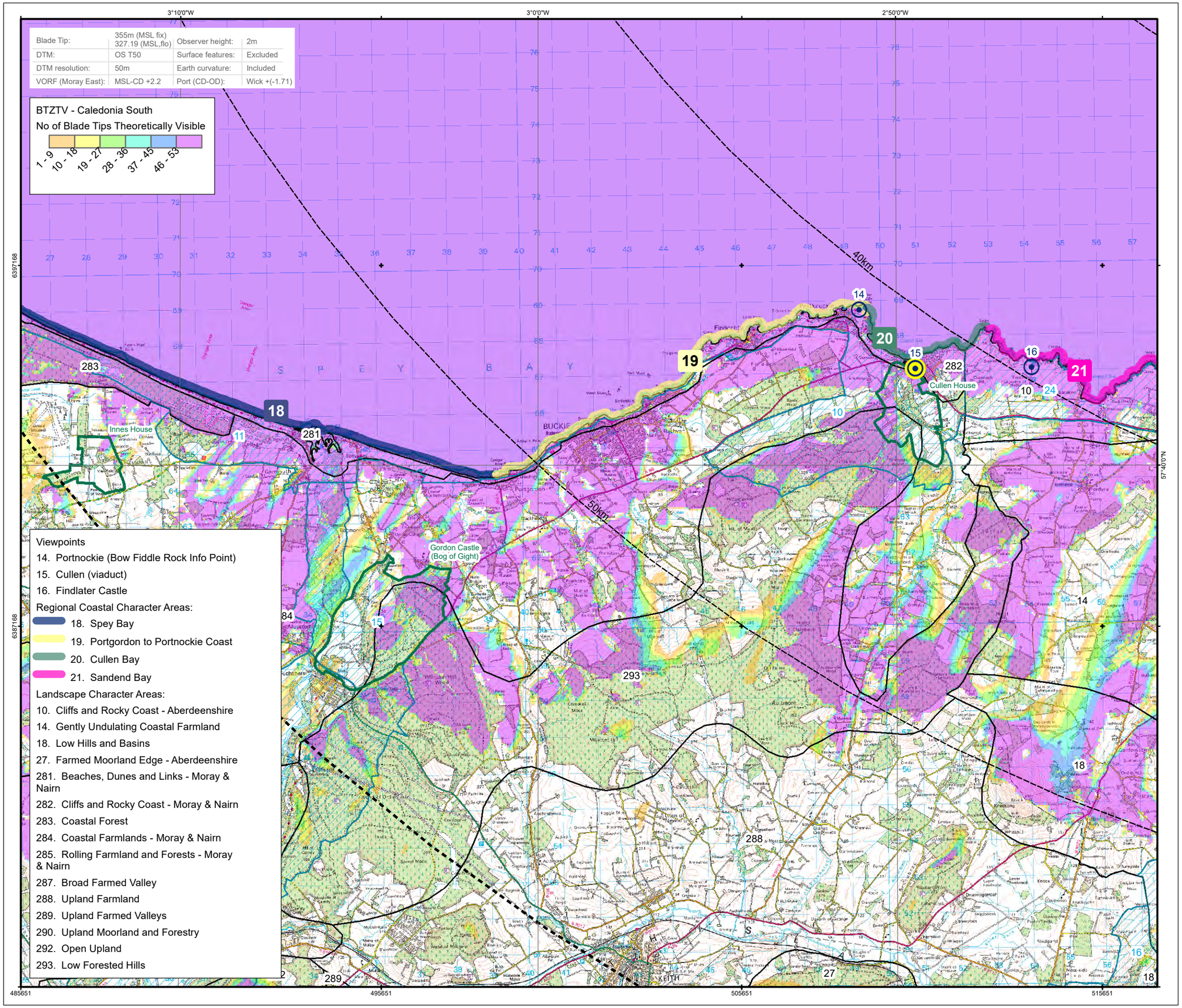
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CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00069	CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)	
DRAWING TITLE: Figure 12-14 Blade Tip ZTV(Southern Study Area) with Designations, Character and RCCAs	
STATUS: Approved	SCALE: 1:100,000
DRAWING NUMBER: N/A	SHEET NO: 01 of 04 / REV: N/A



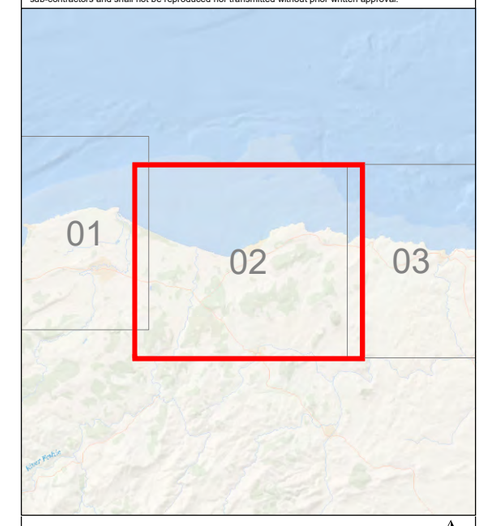
Caledonia South Fixed/Floating

- Fixed (24 x 25MW)
- Floating (29 x 20MW)
- Caledonia South
- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Night Viewpoint Location

Scottish Landscape Character Types, NatureScot (2019)

- Special Landscape Area
  - 10. Portgordon to Cullen Coast
  - 11. Lossiemouth to Portgordon Coast
  - 15. Lower Spey and Gordon Castle Policies
  - 16. Deveron Valley
  - 22. The Spey Valley
  - 24. North Aberdeenshire Coast
  - 25. Deveron Valley
- Garden and Designed Landscape

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01	10/05/2024	For Review	RH	LT	LT

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CONTRACTOR DRAWING NO	CONTRACTOR REV
UKCAL1_OPN_WNF_ENV_SLV_MAP_00070	03

GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)

DRAWING TITLE

Figure 12-14
Blade Tip ZTV(Southern Study Area) with Designations, Character and RCCAs

STATUS	SCALE	
Approved	1:100,000	
DRAWING NUMBER	SHEET NO	REV
N/A	02 of 04	N/A

Blade Tip:	355m (MSL fix) 327.19 (MSL,flo)	Observer height:	2m
DTM:	OS T50	Surface features:	Excluded
DTM resolution:	50m	Earth curvature:	Included
VORF (Moray East):	MSL-CD +2.2	Port (CD-OD):	Wick +(-1.71)

BTZTV - Caledonia South

No of Blade Tips Theoretically Visible

1 - 9 | 10 - 18 | 19 - 27 | 28 - 36 | 37 - 45 | 46 - 53

Viewpoints

17. Portsoy
18. Macduff, viewpoint at Bi-Centenial monument near Macduff Parish Church
19. Gardenstown, Harbour Road

Regional Coastal Character Areas:

21. Sandend Bay
22. Boyne Bay
23. Knock Head to Bay of Cullen
24. Bay of Cullen to More Head
25. Gamrie Bay
26. Troup Head to Quarry Head

Landscape Character Areas:

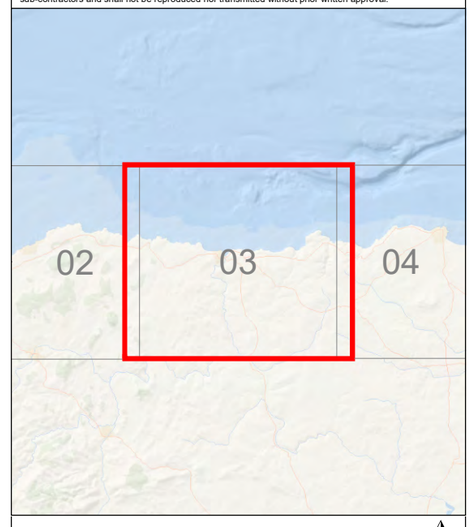
10. Cliffs and Rocky Coast - Aberdeenshire
14. Gently Undulating Coastal Farmland
15. Broad Ridges and Valleys
16. Coastal Farmland with Ridges and Valleys
18. Low Hills and Basins
20. Undulating Agricultural Heartland
32. Farmed and Wooded River Valleys
288. Upland Farmland

Caledonia South Fixed/Floating

- Fixed (24 x 25MW)
- Floating (29 x 20MW)
- Caledonia South
- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Night Viewpoint Location
- Scottish Landscape Character Types, NatureScot (2019)
- Special Landscape Area
  - 16. Deveron Valley
  - 24. North Aberdeenshire Coast
  - 25. Deveron Valley
- Garden and Designed Landscape

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CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00071	CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)	

DRAWING TITLE

Figure 12-14
Blade Tip ZTV(Southern Study Area) with Designations, Character and RCCAs

STATUS: Approved	SCALE: 1:100,000	
DRAWING NUMBER: N/A	SHEET NO: 03 of 04	REV: N/A

Blade Tip:	355m (MSL fix) 327.19 (MSL,flo)	Observer height:	2m
DTM:	OS T50	Surface features:	Excluded
DTM resolution:	50m	Earth curvature:	Included
VORF (Moray East):	MSL-CD +2.2	Port (CD-OD):	Wick +(-1.71)

BTZTV - Caledonia South

No of Blade Tips Theoretically Visible

1 - 9 | 10 - 18 | 19 - 27 | 28 - 36 | 37 - 45 | 46 - 53

Viewpoints

20. Rosehearty Harbour
21. B9031, west of Fraserburgh

Regional Coastal Character Areas:

26. Troup Head to Quarry Head
27. Quarry Head to Bay of Lochielair
28. Rosehearty to Fraserburgh
29. Fraserburgh Bay
30. Inverallochy to Scotstown Head

Landscape Character Areas:

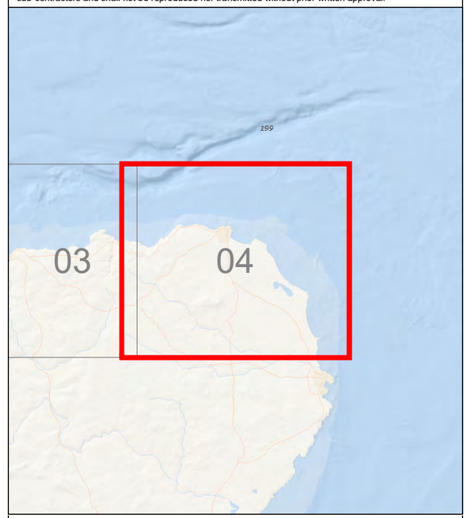
10. Cliffs and Rocky Coast - Aberdeenshire
12. Beaches, Dunes and Links - Aberdeenshire
15. Broad Ridges and Valleys
16. Coastal Farmland with Ridges and Valleys
17. Coastal Agricultural Plain - Aberdeenshire
20. Undulating Agricultural Heartland
21. Farmland and Wooded Policies

Caledonia South Fixed/Floating

- Fixed (24 x 25MW)
- Floating (29 x 20MW)
- Caledonia South
- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Night Viewpoint Location
- Scottish Landscape Character Types, NatureScot (2019)
- Special Landscape Area
- 23. North East Aberdeenshire Coast
- 24. North Aberdeenshire Coast
- Garden and Designed Landscape

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02	10/07/2024	For Review	RH	LT	LT
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CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)
DRAWING TITLE

Figure 12-14
Blade Tip ZTV(Southern Study Area) with Designations, Character and RCCAs

STATUS: Approved
SCALE: 1:100,000
DRAWING NUMBER: N/A
SHEET NO: 04 of 04
REV: N/A

Blade Tip:	355m (MSL fix) 327.19 (MSL,flo)	Observer height:	2m
DTM:	OS T50	Surface features:	Excluded
DTM resolution:	50m	Earth curvature:	Included
VORF (Moray East):	MSL-CD +2.2	Port (CD-OD):	Wick +(-1.71)

BTZTV - Caledonia South
No of Blade Tips Theoretically Visible

1 - 9 | 10 - 18 | 19 - 27 | 28 - 36 | 37 - 45 | 46 - 53

Viewpoints
3. Duncansby Head
4. Keiss
5. Wick (path south of South View)
6. Sarclet (Sarclet Haven Info Board)
7. Yarrows Archaeological Trail
8. Whaligoe Steps
9. Lybster (end of Main Street)
10. Dunbeath (near Heritage Centre)

3°30'0"W 3°0'0"W 2°30'0"W
58°30'0"N
6521061 6511061 6501061 6491061 6481061 6471061 6461061 6451061
445425 455425 465425 475425 485425 495425 505425 515425 525425 535425

Caledonia South Fixed/Floating
- Fixed (24 x 25MW)
- Floating (29 x 20MW)
- OSPs
- Caledonia South
- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Night Viewpoint Location
- Railway Station
- Ferry Ports
- Core Paths
- CA10.06. Camster Forest
- CA12.05. Yarrows Archaeological Trail
- CA15.03. Castle of Old Wick coastal
- CA15.17. Keiss/Reiss shore

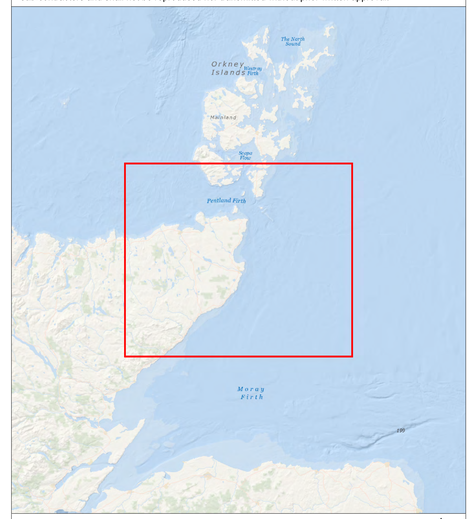
- Railway
- Ferry Routes
- A Road
- B Road
- National Cycle Network

Scenic Routes
- North Coast 500
- North and West Highlands

Cumulative Windfarms Status:
- Operational
- Under Construction
- Consented
- Appeal / Application
- Operational
- Under Construction
- Consented
- Appeal / Application
- Scoping

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CONTRACTOR DRAWING NO UKCAL1_OPN_WNF_ENV_SLV_MAP_00073	CONTRACTOR REV 03
GEODETIC PARAMETERS OSGB36 / British National Grid (EPSG:27700)	
DRAWING TITLE Figure 12-15 Blade Tip ZTV (Western Study Area) Visual Receptors and Viewpoint Locations	
STATUS Approved	SCALE 1:110,000
DRAWING NUMBER N/A	SHEET NO 01 of 01 / REV N/A

Blade Tip:	355m (MSL fix) 327.19 (MSL,flo)	Observer height:	2m
DTM:	OS T50	Surface features:	Excluded
DTM resolution:	50m	Earth curvature:	Included
VORF (Moray East):	MSL-CD +2.2	Port (CD-OD):	Wick +(-1.71)

BTZTV - Caledonia South
No of Blade Tips Theoretically Visible

1 - 9 | 10 - 18 | 19 - 27 | 28 - 36 | 37 - 45 | 46 - 53

Viewpoints
13. Lossiemouth Harbour
14. Portnockie (Bow Fiddle Rock Info Point)
15. Cullen (viaduct)
16. Findlater Castle
17. Portsoy
18. Macduff, viewpoint at Bi-Centenial monument near Macduff Parish Church
19. Gardenstown, Harbour Road
20. Rosehearty Harbour
21. B9031, west of Fraserburgh
22. Ferry Route (Kirkwall to Aberdeen)

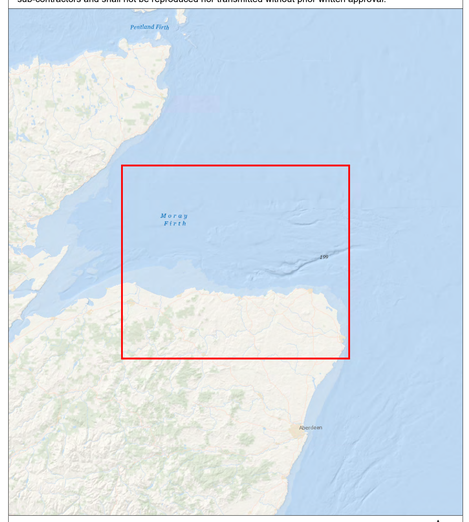
Caledonia South Fixed/Floating
- Fixed (24 x 25MW)
- Floating (29 x 20MW)
- OSPs
- Caledonia South
- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Night Viewpoint Location
- Railway Station
- Ferry Ports
- Railway
- A Road
- B Road
- Ferry Routes
- National Cycle Network
- Long Distance Walks:
  2. Formartine and Buchan Way
  3. Moray Coast Trail
  4. Speyside Way
- Core Paths

Scenic Routes
- North East 250

Cumulative Windfarms Status:
- Operational
- Under Construction
- Consented
- Inactive / Decomissioned
- Operational
- Under Construction
- Consented
- Inactive / Decomissioned

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0 3 6 9 12 km

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CONTRACTOR DRAWING NO UKCAL1_OPN_WNF_ENV_SLV_MAP_00074	CONTRACTOR REV 03
GEODETIC PARAMETERS OSGB36 / British National Grid (EPSG:27700)	

DRAWING TITLE

Figure 12-16
Blade Tip ZTV (Southern Study Area) Visual Receptors and Viewpoint Locations

STATUS Approved	SCALE 1:110,000	
DRAWING NUMBER N/A	SHEET NO 01 of 01	REV N/A

Hub Height:	200m (MSL fix) 182.19 (MSL,flo)	Observer height:	2m
DTM:	OS T50	Surface features:	Excluded
DTM resolution:	50m	Earth curvature:	Included
VORF (Moray East):	MSL-CD +2.2	Port (CD-OD):	Wick +(-1.71)

HHZTV - Caledonia South
No of Hubs Theoretically Visible

1 - 9 | 10 - 18 | 19 - 27 | 28 - 36 | 37 - 45 | 46 - 53

Viewpoints
3. Duncansby Head
4. Keiss
5. Wick (path south of South View)
6. Sarclet (Sarclet Haven Info Board)
7. Yarrows Archaeological Trail
8. Whaligoe Steps
9. Lybster (end of Main Street)
10. Dunbeath (near Heritage Centre)

3°30'0"W 3°0'0"W 2°30'0"W
58°30'0"N
6521061 6511061 6501061 6491061 6481061 6471061 6461061 6451061
445425 455425 465425 475425 485425 495425 505425 515425 525425 535425

Caledonia South Fixed/Floating
- Fixed (24 x 25MW)
- Floating (29 x 20MW)
- OSPs
- Caledonia South
- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Night Viewpoint Location
- Railway Station
- Ferry Ports
- Core Paths
- CA10.06. Camster Forest
- CA12.05. Yarrows Archaeological Trail
- CA15.03. Castle of Old Wick coastal
- CA15.17. Keiss/Reiss shore

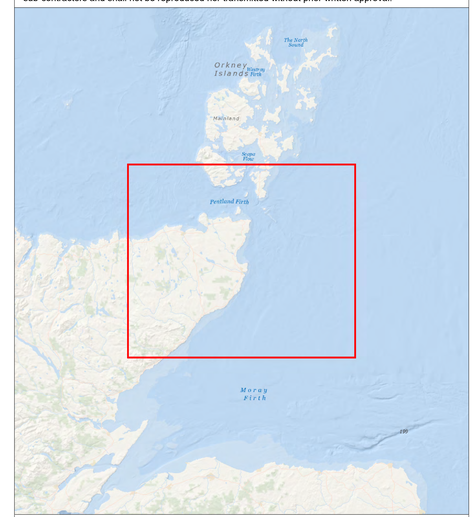
- Railway
- Ferry Routes
- A Road
- B Road
- National Cycle Network

Scenic Routes
- North Coast 500
- North and West Highlands

Cumulative Windfarms Status:
- Operational
- Under Construction
- Consented
- Appeal / Application
- Operational
- Under Construction
- Consented
- Appeal / Application
- Scoping

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0 3 6 9 12 km

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CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00075	CONTRACTOR REV: 03
GEODETIC PARAMETERS: OSGB36 / British National Grid (EPSG:27700)	

DRAWING TITLE

Figure 12-17
Hub Height ZTV (Western Study Area) Visual Receptors and Viewpoint Locations

STATUS: Approved	SCALE: 1:110,000	
DRAWING NUMBER: N/A	SHEET NO: 01 of 01	REV: N/A

Hub Height:	200m (MSL fix) 182.19 (MSL,flo)	Observer height:	2m
DTM:	OS T50	Surface features:	Excluded
DTM resolution:	50m	Earth curvature:	Included
VORF (Moray East):	MSL-CD +2.2	Port (CD-OD):	Wick +(-1.71)

HHZTV - Caledonia South
No of Hubs Theoretically Visible

1 - 9 | 10 - 18 | 19 - 27 | 28 - 36 | 37 - 45 | 46 - 53

Viewpoints
13. Lossiemouth Harbour
14. Portnockie (Bow Fiddle Rock Info Point)
15. Cullen (viaduct)
16. Findlater Castle
17. Portsoy
18. Macduff, viewpoint at Bi-Centenial monument near Macduff Parish Church
19. Gardenstown, Harbour Road
20. Rosehearty Harbour
21. B9031, west of Fraserburgh
22. Ferry Route (Kirkwall to Aberdeen)

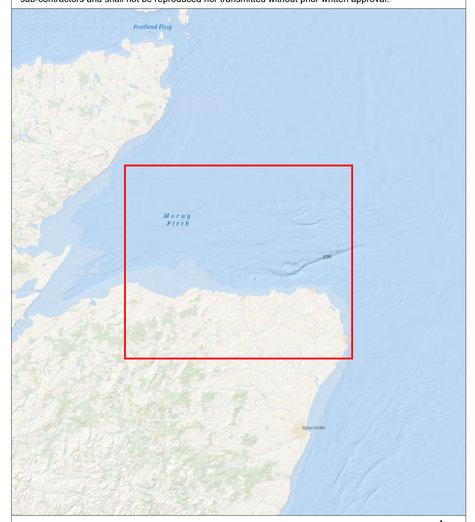
1.1GW South Fixed/Floating
- Fixed (24 x 25MW)
- Floating (29 x 20MW)
- OSPs
- Caledonia South
- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Night Viewpoint Location
- Railway Station
- Ferry Ports
- Railway
- A Road
- B Road
- Ferry Routes
- National Cycle Network
- Long Distance Walks:
  2. Formartine and Buchan Way
  3. Moray Coast Trail
  4. Speyside Way
- Core Paths

Scenic Routes
- North East 250

Cumulative Windfarms Status:
- Operational
- Under Construction
- Consented
- Inactive / Decomissioned
- Operational
- Under Construction
- Consented
- Inactive / Decomissioned

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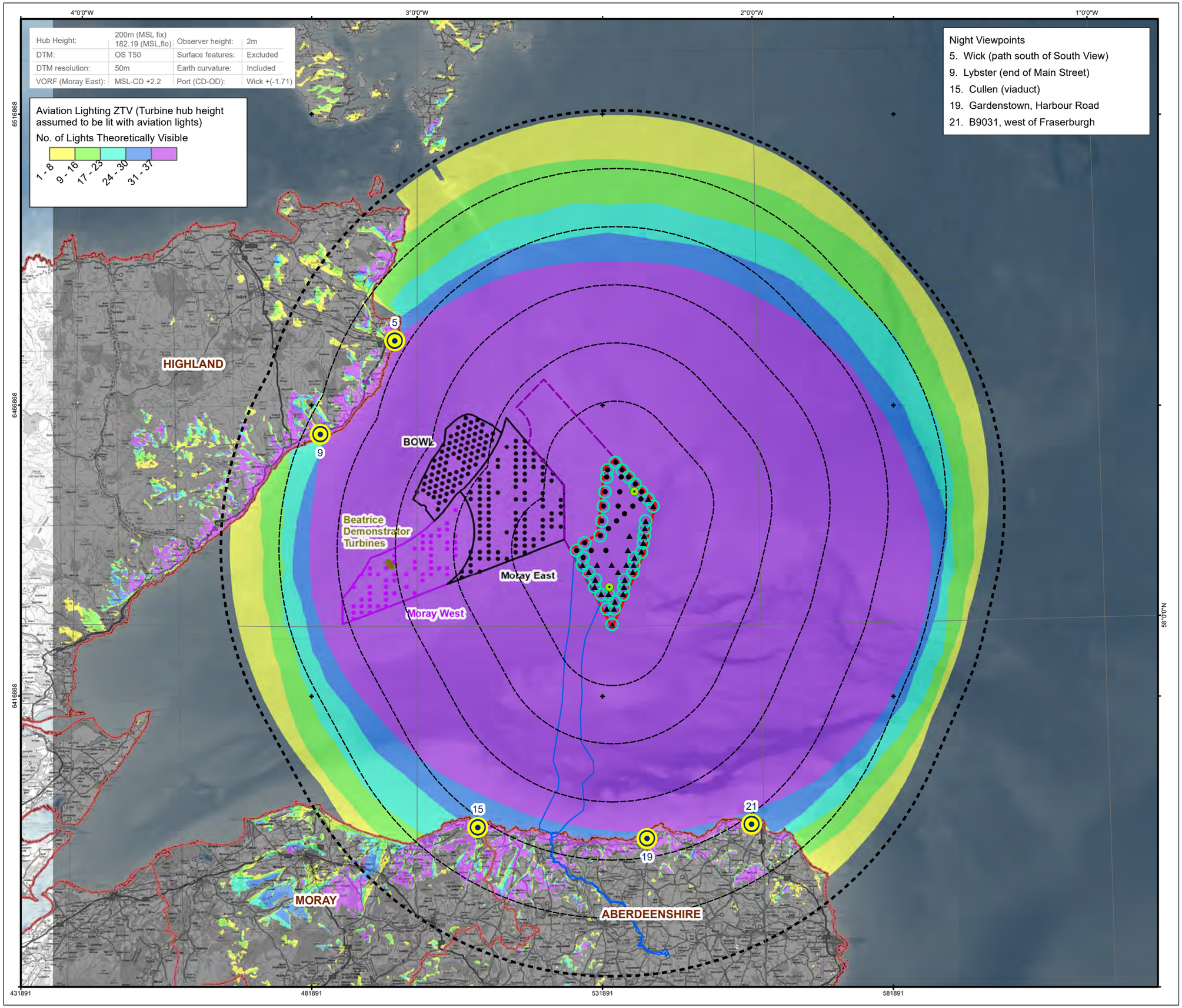
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CONTRACTOR DRAWING NO UKCAL1_OPN_WNF_ENV_SLV_MAP_00076	CONTRACTOR REV 03
GEODETIC PARAMETERS OSGB36 / British National Grid (EPSG:27700)	

DRAWING TITLE

Figure 12-18
Hub Height ZTV (Southern Study Area) Visual Receptors and Viewpoint Locations

STATUS Approved	SCALE 1:110,000	
DRAWING NUMBER N/A	SHEET NO 01 of 01	REV N/A



Caledonia South Fixed/Floating

- Fixed (24 x 25MW)
- Floating (29 x 20MW)
- OSPs
- Hub Aviation Hazard Warning Light
- Caledonia South
- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Night Viewpoint Location
- Local Authority Boundary

Offshore Windfarms (Baseline) Status:

- Operational
- Under Construction
- Inactive / Decomissioned
- Operational
- Under Construction
- Inactive / Decomissioned

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0 5 10 15 20 km

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01	10/05/2024	For Review	RH	LT	LT

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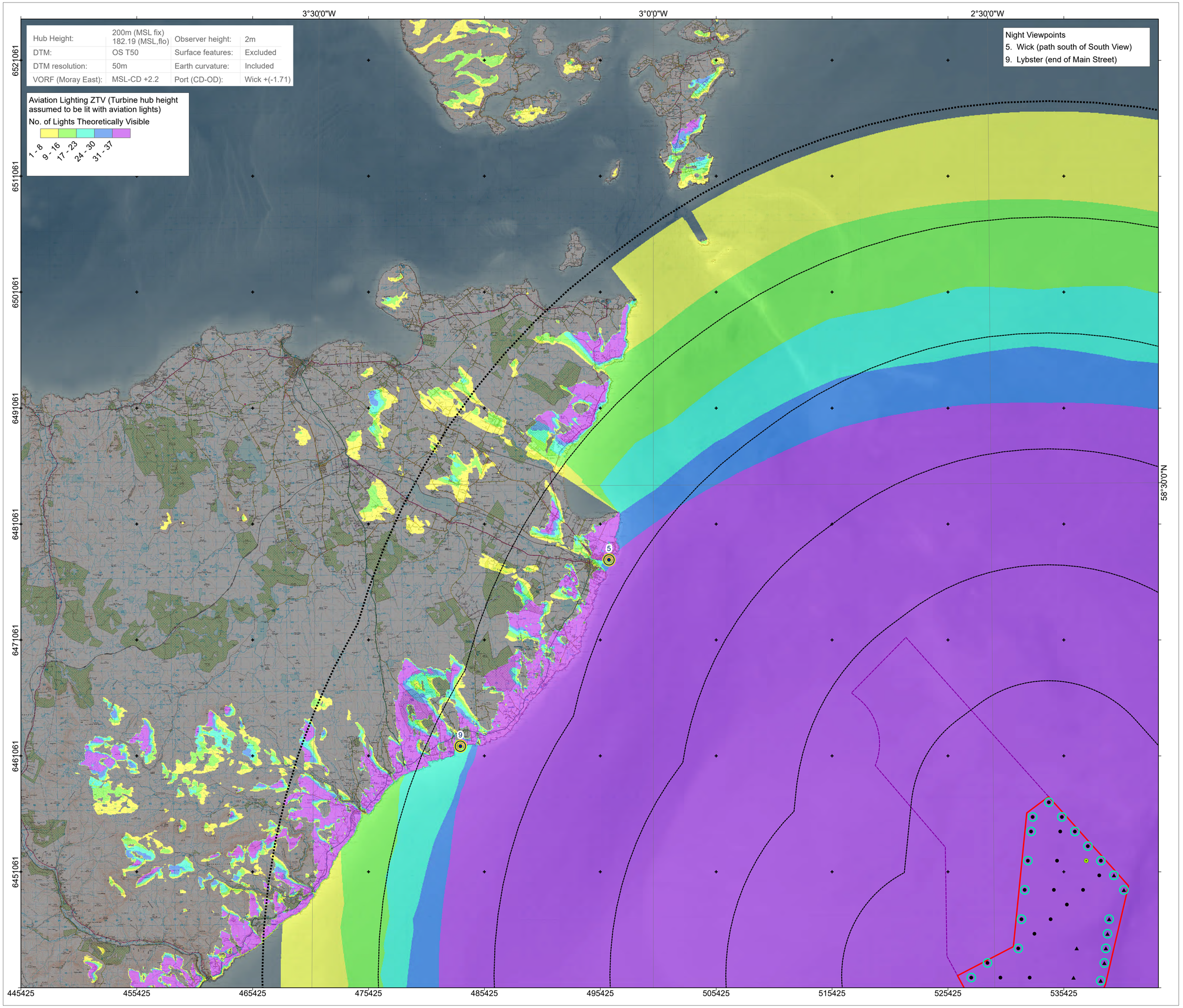
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CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00077	CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)	

DRAWING TITLE

Figure 12-19 Hub Aviation Lighting ZTV Caledonia South

STATUS: Approved	SCALE: 1:620,000	
DRAWING NUMBER: N/A	SHEET NO: 01 of 01	REV: N/A

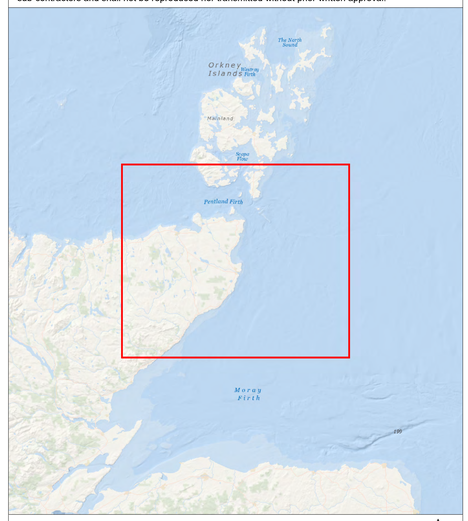


Caledonia South Fixed/Floating

- Fixed (24 x 25MW)
- Floating (29 x 20MW)
- OSPs
- Hub Aviation Hazard Warning Light
- Caledonia South
- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Night Viewpoint Location

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0 3 6 9 12 km

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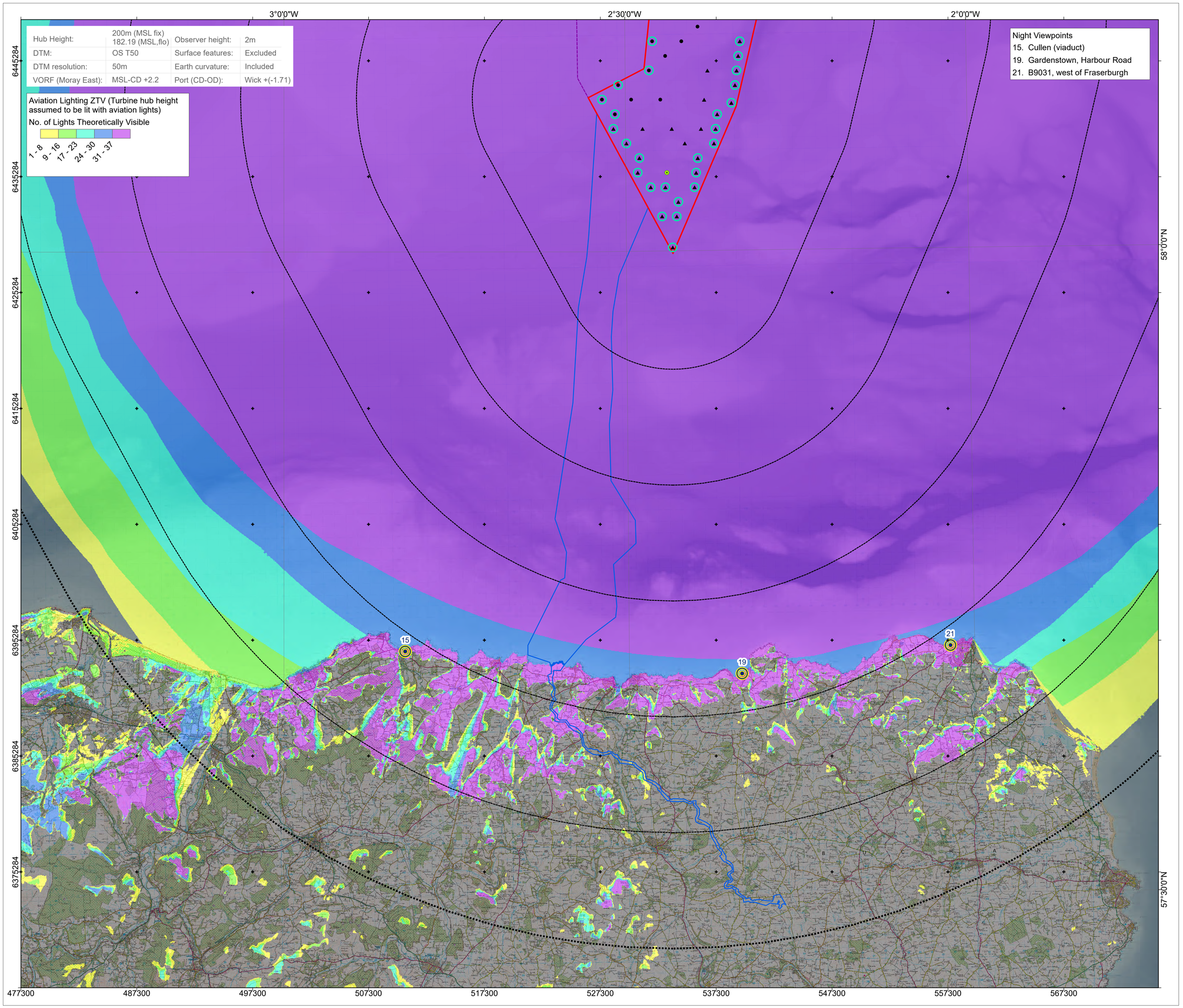
CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00078
CONTRACTOR REV: 03

GEODETIC PARAMETERS: OSGB36 / British National Grid (EPSG:27700)

DRAWING TITLE

Figure 12-20
Hub Aviation Lighting ZTV (Western Study Area), Caledonia South

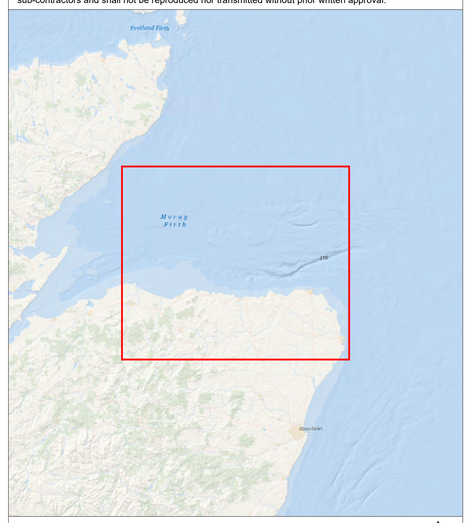
STATUS: Approved
SCALE: 1:110,000
DRAWING NUMBER: N/A
SHEET NO: 01 of 01
REV: N/A



Caledonia South Fixed/Floating

- Fixed (24 x 25MW)
- Floating (29 x 20MW)
- OSPs
- Hub Aviation Hazard Warning Light
- Caledonia South
- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Night Viewpoint Location

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GEODETIC PARAMETERS: OSGB36 / British National Grid (EPSG:27700)	

DRAWING TITLE

Figure 12-21
Hub Aviation Lighting ZTV (Southern Study Area), Caledonia South

STATUS: Approved	SCALE: 1:110,000	
DRAWING NUMBER: N/A	SHEET NO: 01 of 01	REV: N/A

Blade Tip:	108 - 355m	Observer height:	2m
DTM:	OS T50	Surface features:	Excluded
DTM resolution:	50m	Earth curvature:	Included
VORF (Moray East):	MSL-CD +2.2	Port (CD-OD):	Wick +(-1.71)

Viewpoints
3. Duncansby Head
4. Keiss
5. Wick (path south of South View)
6. Sarclet (Sarclet Haven Info Board)
7. Yarrows Archaeological Trail
8. Whaligoe Steps
9. Lybster (end of Main Street)
10. Dunbeath (near Heritage Centre)
13. Lossiemouth Harbour
14. Portnockie (Bow Fiddle Rock Info Point)
15. Cullen (viaduct)
16. Findlater Castle
17. Portsoy
18. Macduff, viewpoint at Bi-Centenial monument near Macduff Parish Church
19. Gardenstown, Harbour Road
20. Rosehearty Harbour
21. B9031, west of Fraserburgh
22. Ferry Route (Kirkwall to Aberdeen)

HIGHLAND
MORAY
ABERDEENSHIRE
BOWL
Moray East
Moray West

Cumulative Zone of Theoretical Visibility
- Caledonia South Theoretical Visibility
- BOWL, Moray East and Moray West Theoretical Visibility
- Combined Theoretical Visibility

4°0'0"W 3°0'0"W 2°0'0"W 1°0'0"W
58°0'0"N
6516868 6466868 6416868
431891 481891 531891 581891

Caledonia South Fixed/Floating
- Fixed (24 x 25MW)
- Floating (29 x 20MW)
- OSPs
- Caledonia South
- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Viewpoint Location
- Local Authority Boundary

Cumulative Windfarm Status:
- Operational
- Under Construction

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0 5 10 15 20 km

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CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)
DRAWING TITLE

Figure 12-22
Cumulative ZTV with BOWL, Moray East and Moray West, Caledonia South

STATUS: Approved
SCALE: 1:620,000
DRAWING NUMBER: N/A
SHEET NO: 01 of 01
REV: N/A

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144 Morrison Street
Edinburgh
EH3 8EX

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