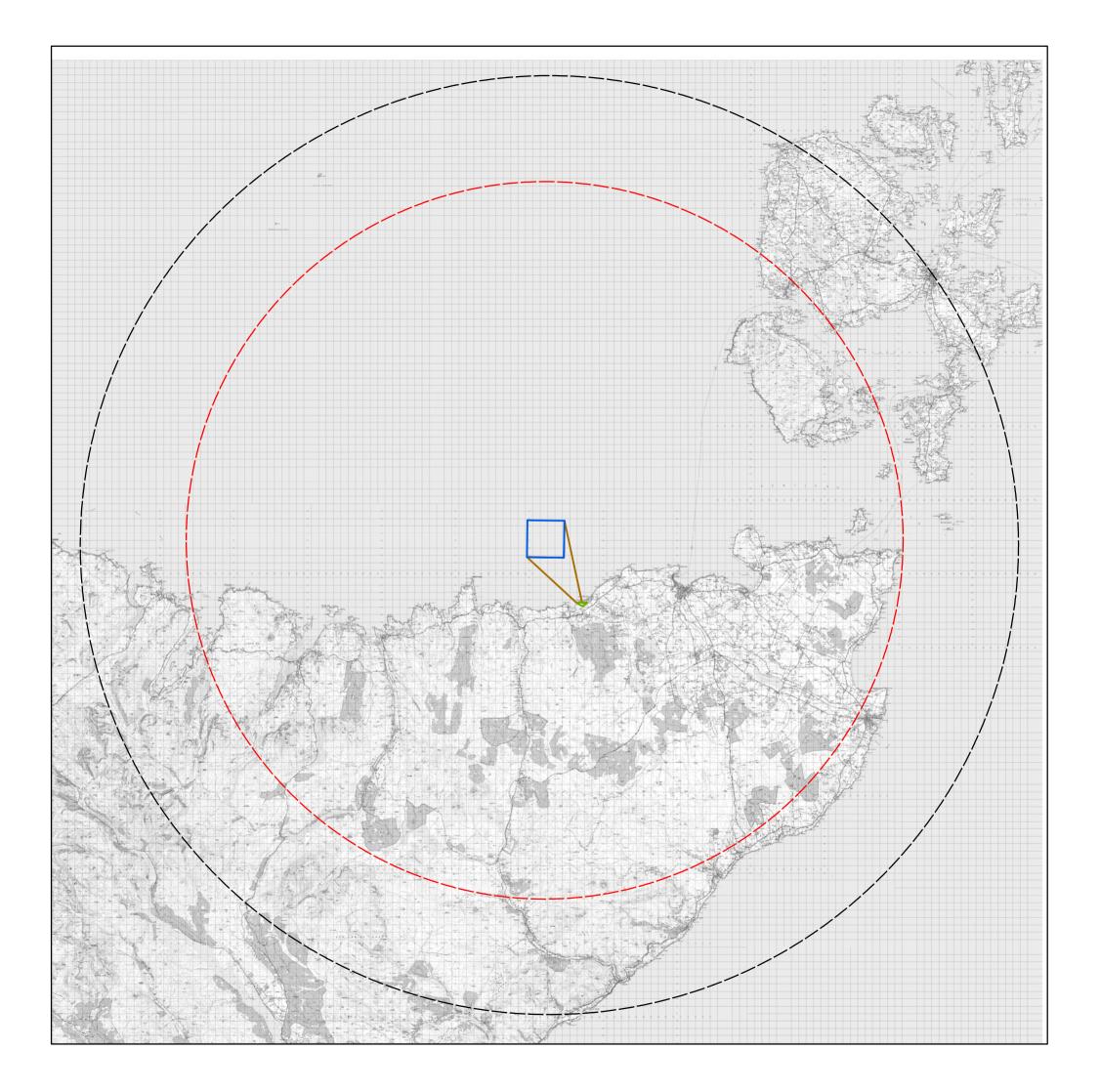


Appendix 15.5

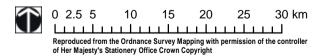
SLVIA Visual Material





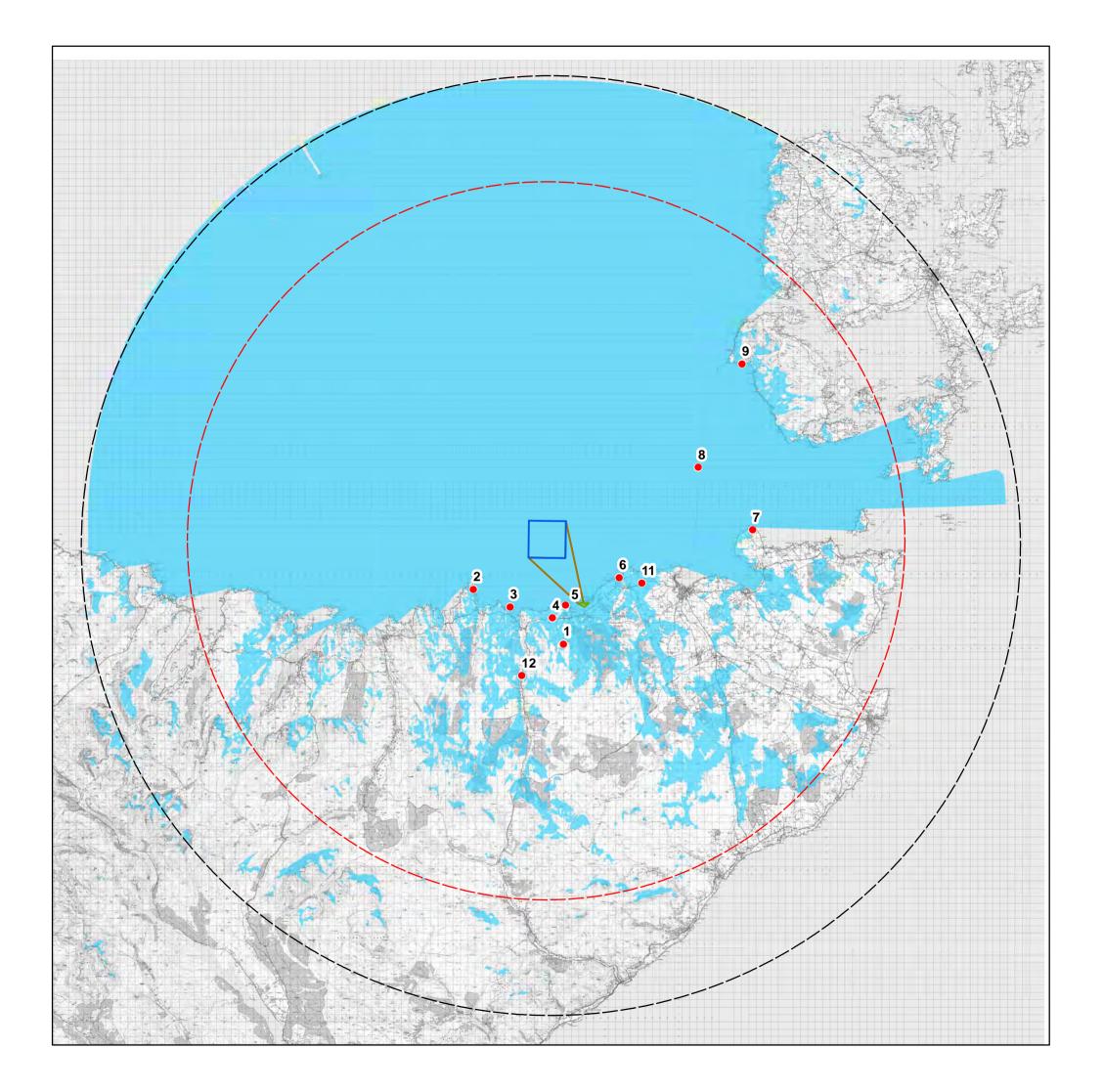


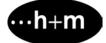
Hexicon Dounreay Demonstration Site Onshore study area Export cable corridor Core Study Area Extended Study Area



Hexicon Dounreay Demonstration Site - Offshore Seascape and Landscape and Visual Impact Assessment

Study Area





Hexicon Dounreay Demonstration Sit	
	Э
Export cable corridor	
Core Study Area	
Extended Study Area	
Zone of Theoretical Visibility (ZTV)	
Combined Tip, Hub and Lower Tip	
Viewpoints	
1: Ben Raitha	
 2: Strathy Point car park 	
 3: Portskerra / Melvich 	
4: Drum Holliston Moss	

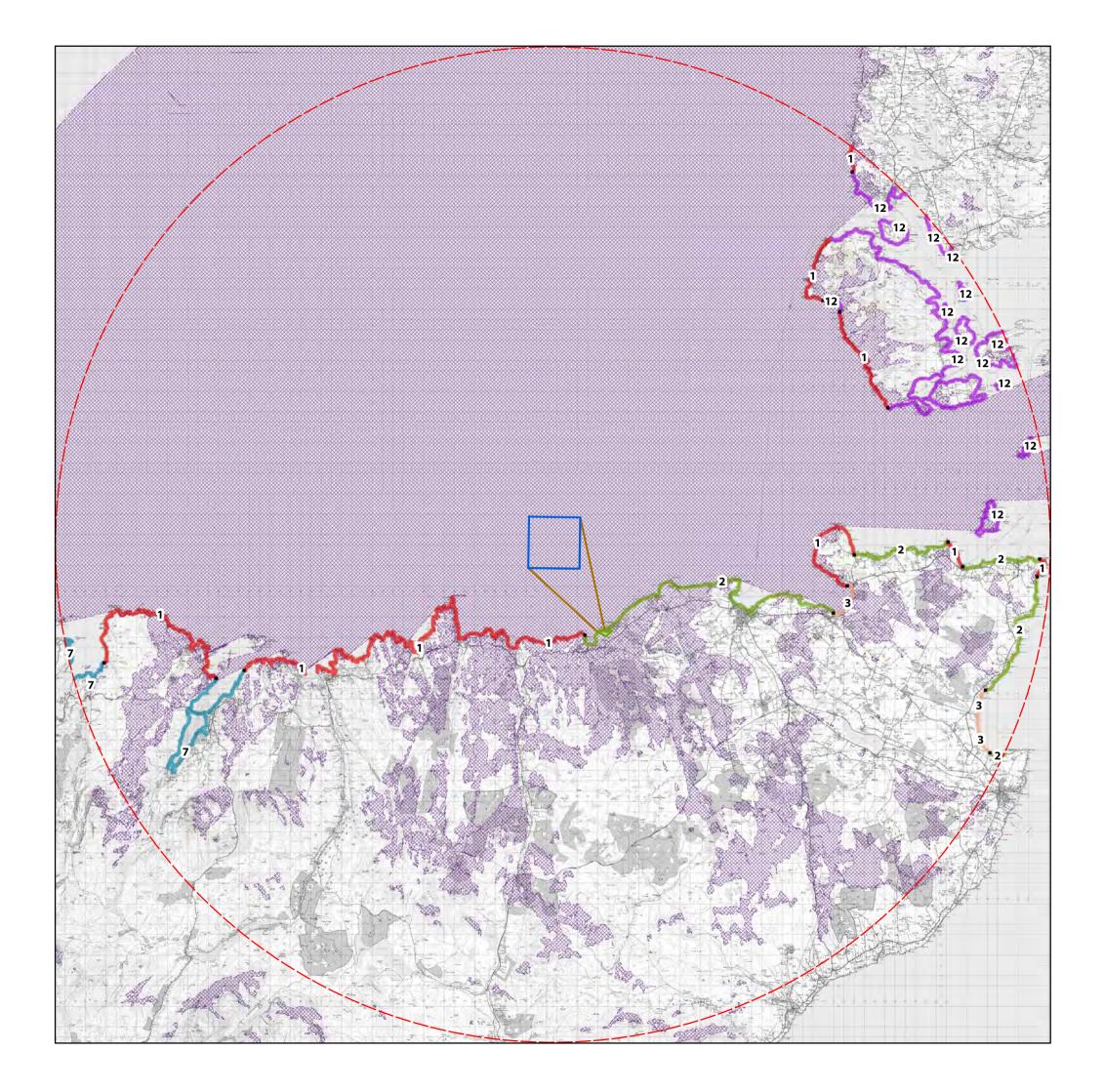
- 5: Sandside Head
- 6: St Mary's Chapel, Forss
- 7: Dunnet Head
- 8: Scrabster Stromness Ferry
- 9: Path to the Old Man of Hoy
- 11: A836 east of Forss
- 12: A897 near Craigtown, Strath Halladale





Hexicon Dounreay Demonstration Site - Offshore Seascape and Landscape and Visual Impact Assessment

Combined ZTV with Viewpoint Positions





Hexico
Onsho
Expor

con Dounreay Demonstration Site

- nore study area
- rt cable corridor
- Core Study Area

Seascape Character Types

- 1, Remote High Cliffs
- 2, Rocky Coastline / Open Sea Views
- 3, Deposition Coastline / Open Views
- 7, Kyles and Sea Lochs
- 12, Deposition Coasts of Islands

Zone of Theoretical Visibility (ZTV)

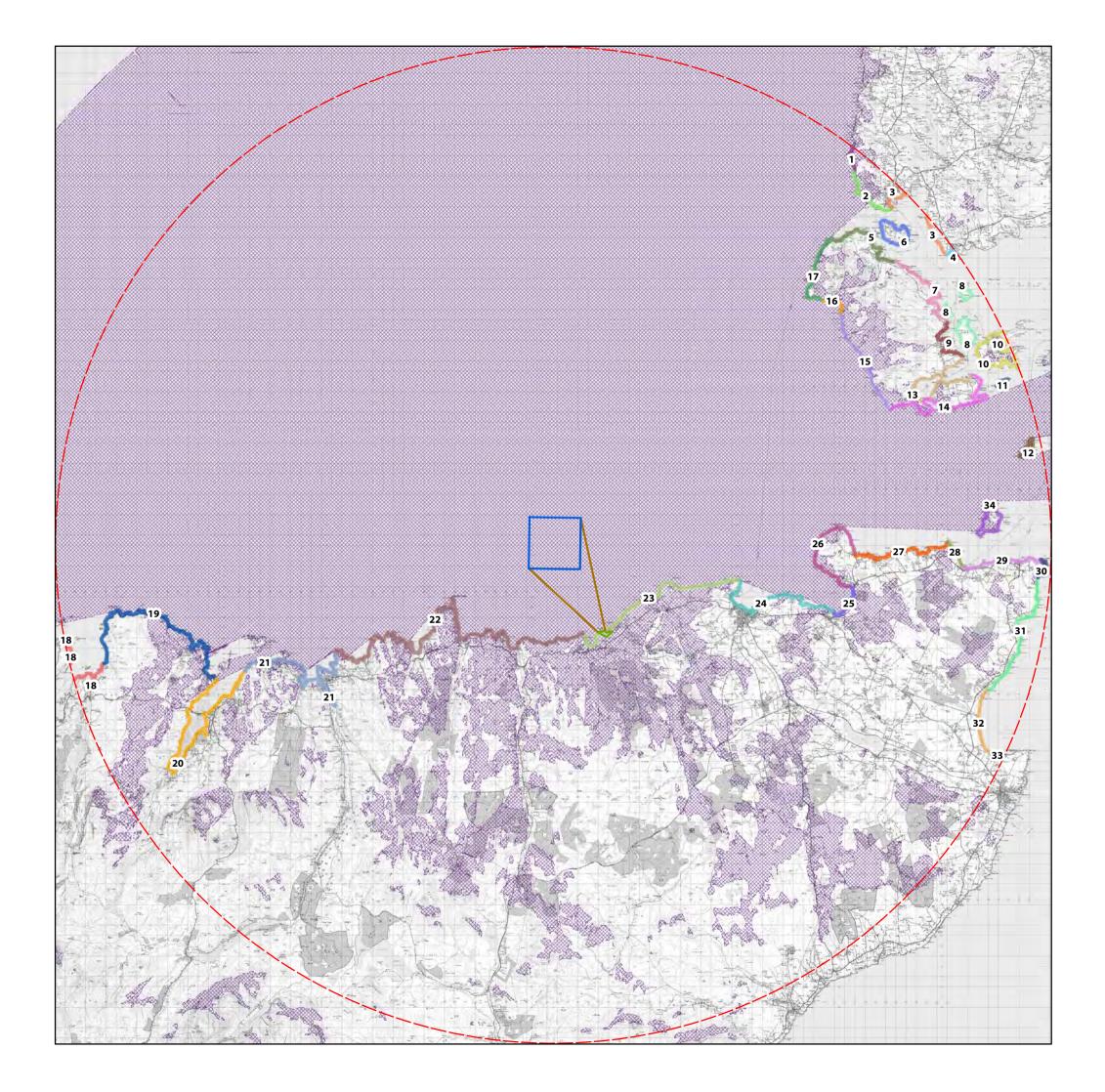
Combined Tip, Hub and Lower Tip

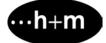


0 1.5 3 6 9 12 15 18 km Reproduced from the Ordnance Survey Mapping with permission of the controller of Her Majesty's Stationery Office Crown Copyright

Hexicon Dounreay Demonstration Site - Offshore Seascape and Landscape and Visual Impact Assessment

Combined ZTV and National Seascape **Character Types**





Legend Hexicon Dounreay Demonstration Site Onshore study area Export cable corridor Core Study Area **Coastal Character Areas (CCA)** 1 - West Mainland 2 - Neblonga to Ness - 3 - Stromness/Clestrian Sound 4 - Orphir 5 - North East Hoy 6 - Graemsay 7 - Central East Hoy 8 - Cava, Rysa Little and Fara 9 - South East Hoy 10 - Flotta 11 - Switha 12 - Swona 13 - North Bay/Longhope 14 - Brims and South Walls 15 - West Hoy 16 - Rack Wick Bay 17 - North West Hoy = 18 - Loch Eriboll 19 - Loch Eriboll to Kyle of Tongue 20 - Kyle of Tongue 21 - Kyle of Tongue to Farr Point 22 - Farr Point to Sandside Bay 23 - Sandside Bay to Holburn Head 24 - Holburn Head to Dunnet Bay 25 - Dunnet Bay 26 - Dunnet Head 27 - Dunnet Head to St Johns Point 28 - St Johns Point to Gills Bay 29 - Gills Bay to Duncansby Head 30 - Duncansby Head

- 31 Duncansby Head to Sinclairs Bay
- 32 Sinclairs Bay
 - 33 Sinclairs Bay to Noss Head
- **_____** 34 Stroma

Zone of Theoretical Visibility (ZTV)

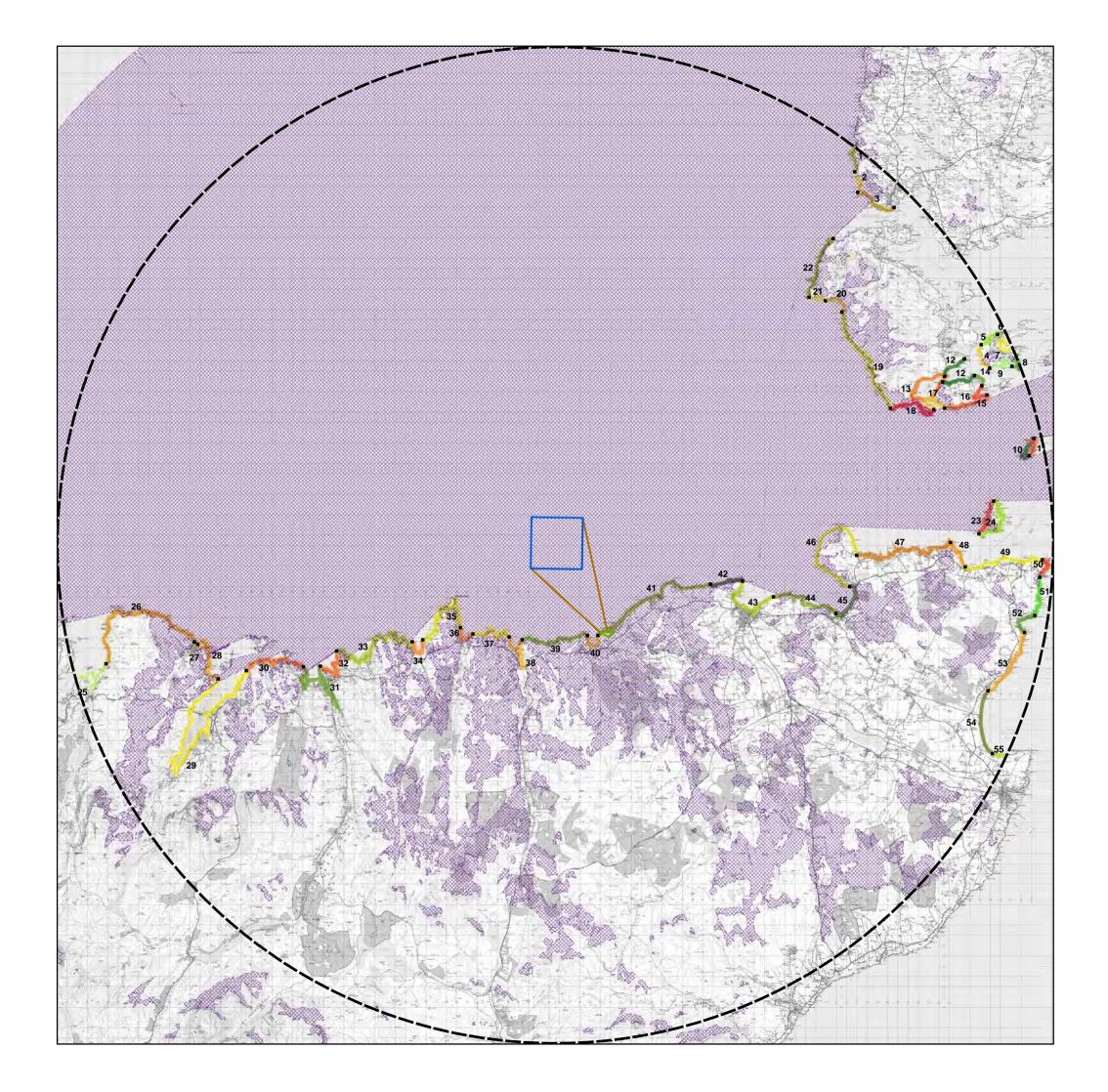
Combined Tip, Hub and Lower Tip



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Hexicon Dounreay Demonstration Site - Offshore Seascape and Landscape and Visual Impact Assessment

Combined ZTV and Coastal Character Areas





	h+m
Legend	
Hexicon Dounreay I	Demonstration Site
Onshore study area	
Export cable corrido	
Zone of Theoretical Visib	
Combined Tip, Hub and	• • •
Local Coastal Character Are	as (LCCA)
1-Lyre Geo to Neblonga	28-Achininver Bay to Ard Skinid
2-Neblonga to Breck Ness	— 29-Kyle of Tongue
	30-Kyle of Tongue to Aird Torrisdale
4-Innan Neb to the Pier	31-Torrisdale Bay
	32-Creag Ruadh to Farr Point
6-The jetty to Tween the Wicks	
7-Tween the Wicks to Quoy Ness	34-Armadale Bay
8-Quoy Ness to House Geo	35-Strathy Point
9-House Geo to Innan Neb	36-Strathy Bay
— 10-West Swona	37-Strathy Bay to Melvich Bay
— 11-East Swona	
12-Long Hope	39-Melvich Bay to Sandside Bay
— 13-North Bay	— 40-Sandside Bay
14-Point of Hackness to Crowtaing	41-Sandside Bay to Ness of Litter
15-Crowtaing to Cantick Head	42-Ness of Litter Holburn Head
16-Cantick Head to Aith Head	— 43-Thurso Bay
17-Aith Head to Brimms Ness	44-Thurso Bay to Dunnet Bay
18-Brimms Ness to Tor Ness	— 45-Dunnet Bay
— 19-Tor Ness to Point of Rackwick Bay	y — 46-Dunnet Head
20-Rackwick Bay	47-Dunnet Head to St John's Point
21-Rackwick bay to Rora Head	— 48-St John's Point to Gills' Bay
22-Rora Head to Kame of Hoy	49-Gills Bay to Duncansby Head
Stroma 23-West Stroma	50-Duncansby Head
24-East Stroma	51-Duncansby Head to Skirza Head
25-Loch Eriboll	52-Freswick Bay
26-Loch Eriboli to Achininver Bay	53-Ness Head to Sinclair's Bay
27-Achininver Bay	5 4-Sinclair's Bay

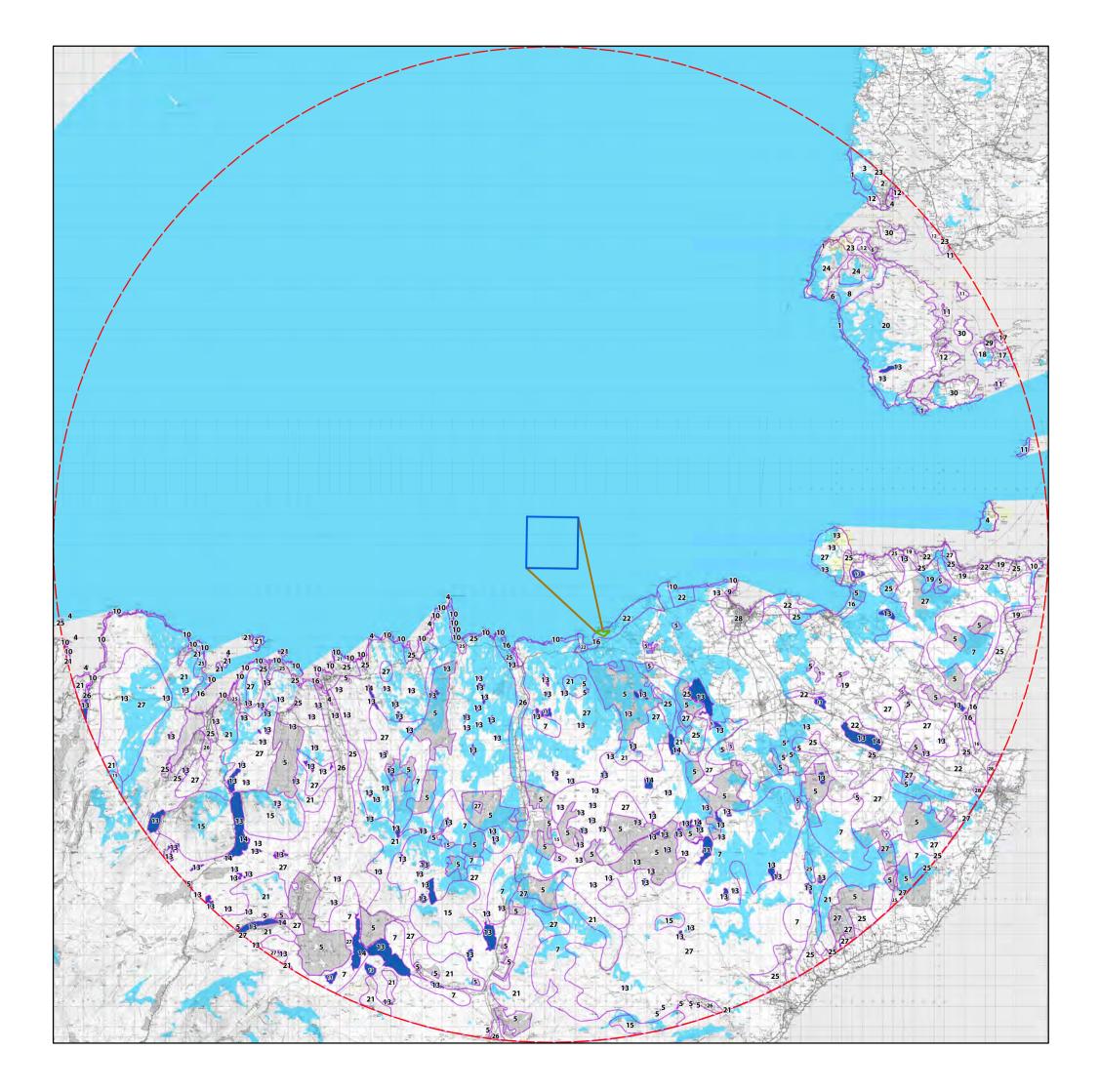
- 27-Achininver Bay
- 55-Sinclair's Bay to Noss Head

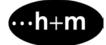


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Hexicon Dounreay Demonstration Site Seascape and Landscape and Visual Impact Assessment

Combined ZTV and Local Coastal Character Areas





Legend Hexicon Dounreay Demonstration Site Onshore study area Export cable corridor Core Study Area Landscape Character Areas 1, Cliff Landscapes 2, Coastal Granite Pastures 3, Coastal Hills and Heath 4, Coastal Island 5, Coniferous Woodland Plantation 6, Enclosed Bay Landscapes 7, Flat Peatland 8, Glaciated Valley 9, Harbour 10, High Cliffs and Sheltered Bays 11, Holms 12, Inclined Coastal Pastures 13, Inland Loch 14, Loch Island 15, Lone Mountains 16, Long Beaches Dunes and Links 17, Low Island Pastures 18, Low Moorland 19, Mixed Agriculture and Settlement 20, Moorland Hills 21, Moorland Slopes and Hills 22, Open Intensive Farmland 23, Rolling Hill Fringe 24, Rugged Glaciated Hills 25, Small Farms and Crofts 26, Strath 27, Sweeping Moorland 28, Town 29, Urban and Rural Development 30, Whaleback Island Landscapes

Zone of Theoretical Visibility (ZTV)

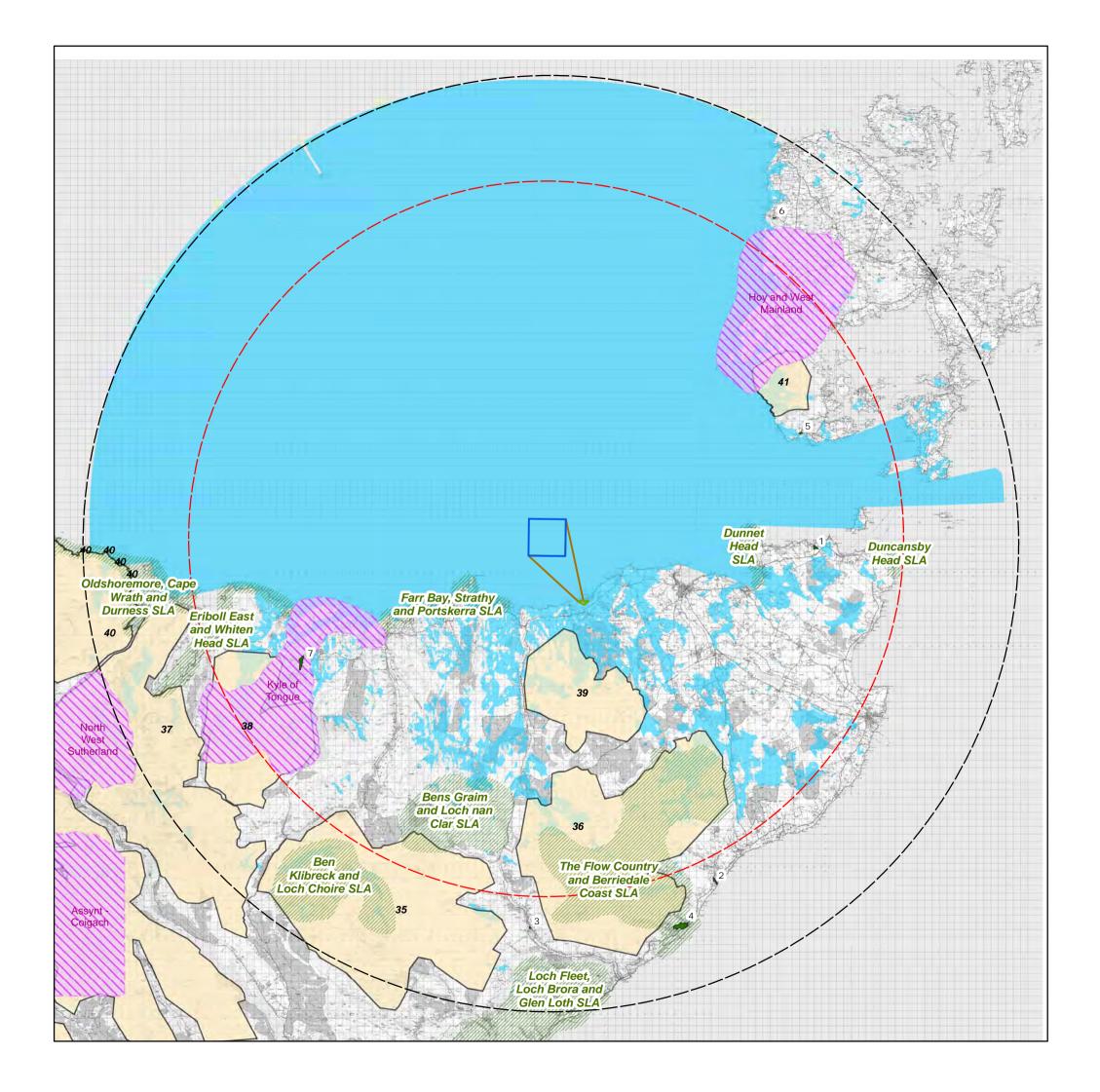
Combined Tip, Hub and Lower Tip

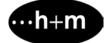


0 1.5 3 6 9 12 15 18 km Reproduced from the Ordnance Survey Mapping with permission of the controller of Her Majesty's Stationery Office Crown Copyright

Hexicon Dounreay Demonstration Site - Offshore Seascape and Landscape and Visual Impact Assessment

Combined ZTV and Landscape Character Types





Legend Hexicon Dounreay Demonstration Site Onshore study area Export cable corridor Core Study Area Extended Study Area Landscape Designations National Scenic Area (NSA) Special Landscape Designation (SLA) Garden and Designed Landscape 1, Castle of Mey (Barrogill Castle) 2, Dunbeath Castle 3, Kildonan Lodge 4, Langwell Lodge 5, Melsetter House 6, Skaill House 7, Tongue House Wild Land Area 35. Ben Klibreck - Armine Forest 36. Causeymire -Knockfin Flows 37. Foinaven - Ben Hee 38. Ben Hope - Ben Loyal 39. East Halladale Flows 40. Cape Wrath 41. Hoy

Zone of Theoretical Visibility (ZTV)

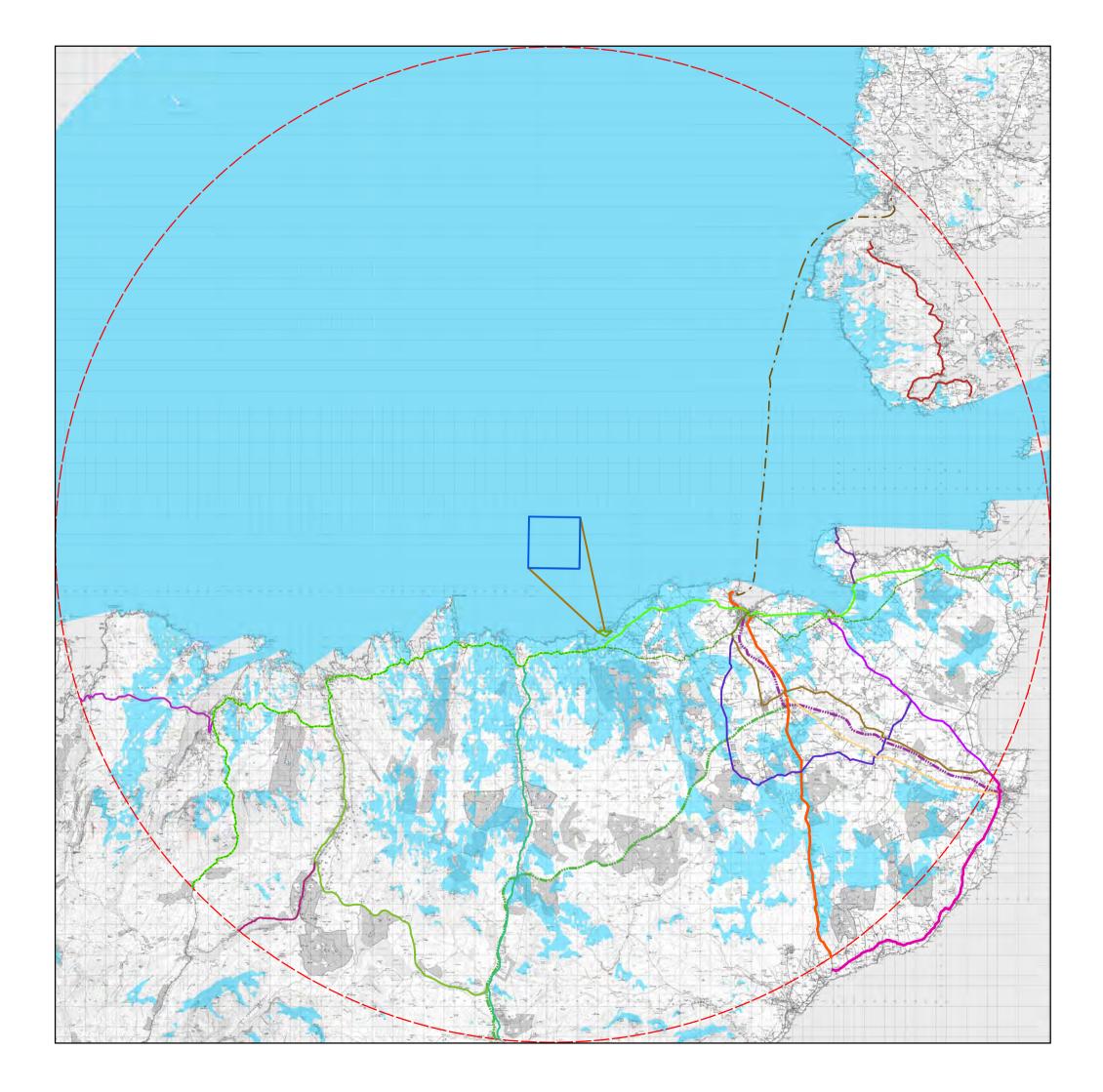
Combined Tip, Hub and Lower Tip



0 2.5 5 10 15 20 25 30 30 km Reproduced from the Ordnance Survey Mapping with permission of the controller of Her Majesty's Stationery Office Crown Copyright

Hexicon Dounreay Demonstration Site - Offshore Seascape and Landscape and Visual Impact Assessment

Combined ZTV and Landscape Designations





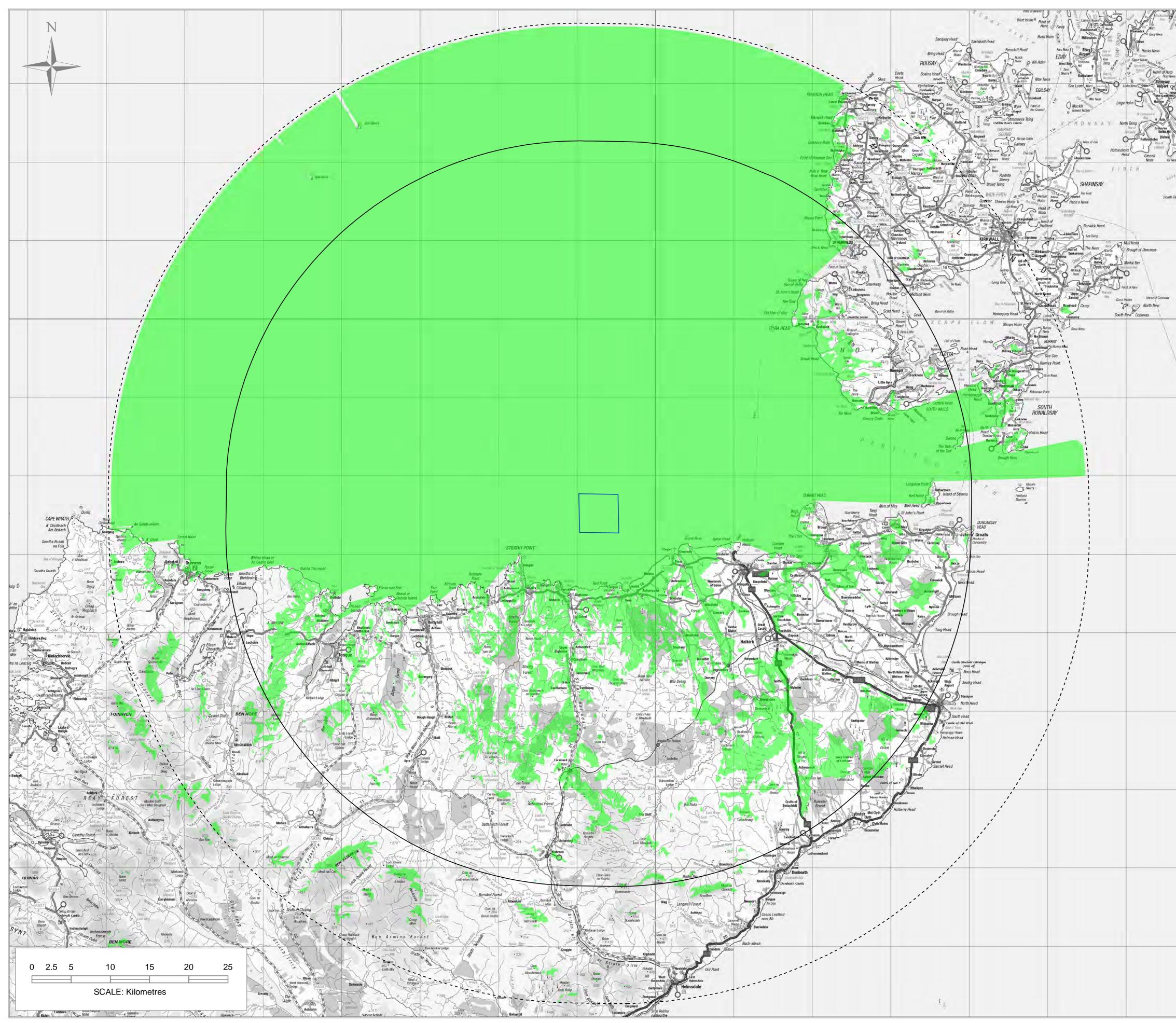
Legend
Hexicon Dounreay Demonstration Site
Onshore study area
Export cable corridor
Core Study Area
Zone of Theoretical Visibility (ZTV)
Combined Tip, Hub and Lower Tip
Sequential Routes
Roads
A836
A838
A882
A897
A9
A99
——— B855
——— B870
——— B871
B873
——— B874
B876
B9047 Hoy
National Cycle Route
NCR 1
Railway
Railway, Kinbrace/Strath of Halladale - Georgemass Junction
Railway, Thurso - Wick
Ferry
Scrabster - Stromness Ferry



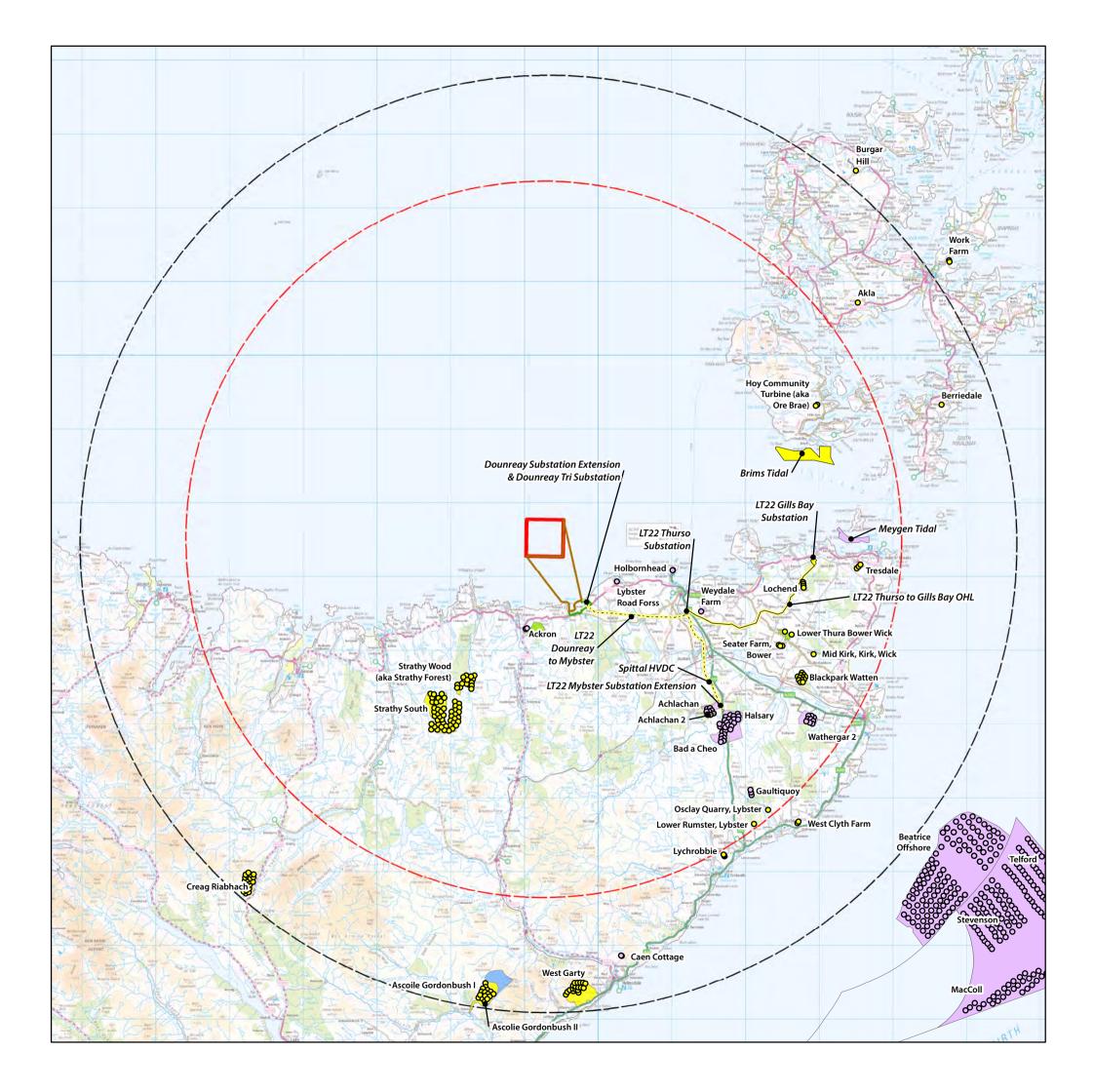
0 1.5 3 6 9 12 15 18 km Reproduced from the Ordnance Survey Mapping with permission of the controller of Her Majesty's Stationery Office Crown Copyright

Hexicon Dounreay Demonstration Site - Offshore Seascape and Landscape and Visual Impact Assessment

Combined ZTV and Sequential Routes



Legend Site		
45 km buffer		
Zone of Theo	oretical Visibility	
- Bas - Bas - Viev - Ear hav	ulation details sed on OS Terrain 5, 5 m DTM da sed on a bare-ground survey wer height of 2 m th curvature and light refraction the been included bine height of 201 m to tip	ata
Service Layer Credits:		
Data source a	nd licence information:	
Cont	tains Ordnance Survey data © Crown copyright and database right 2016	
	Ordnance Survey 01000040827	
Project: P686	Date: 11/08/2016Author: DCCheckedCoordinate System: British National Grid Projection: Transverse Mercator Datum: OSGB 1936Scale @ A3: 1:250,000	d: D
	Projection: Transverse Mercator Datum: OSGB 1936	X





Hexicon Dounreay Demonstration Site

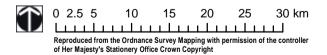
Cable corridor area of search

- Onshore area of search
- Core Study Area
- Extended Study Area

Windfarms



Approved Application Scoping



Hexicon Dounreay Demonstration Site - Offshore Seascape and Landscape and Visual Impact Assessment

Cumulative



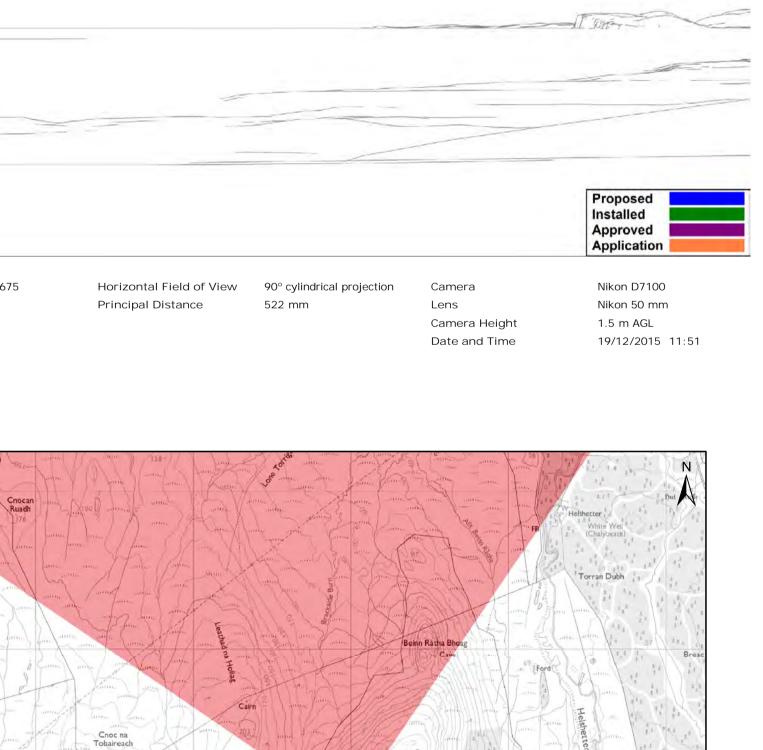
Viewpoint 1: Ben Ratha

Produced by:





Grid Reference Viewpoint Height Direction of View Distance to Turbine 294975, 960675 247 m AOD 349.14° 11,961 m







Viewpoint 1: Ben Ratha

Produced by:

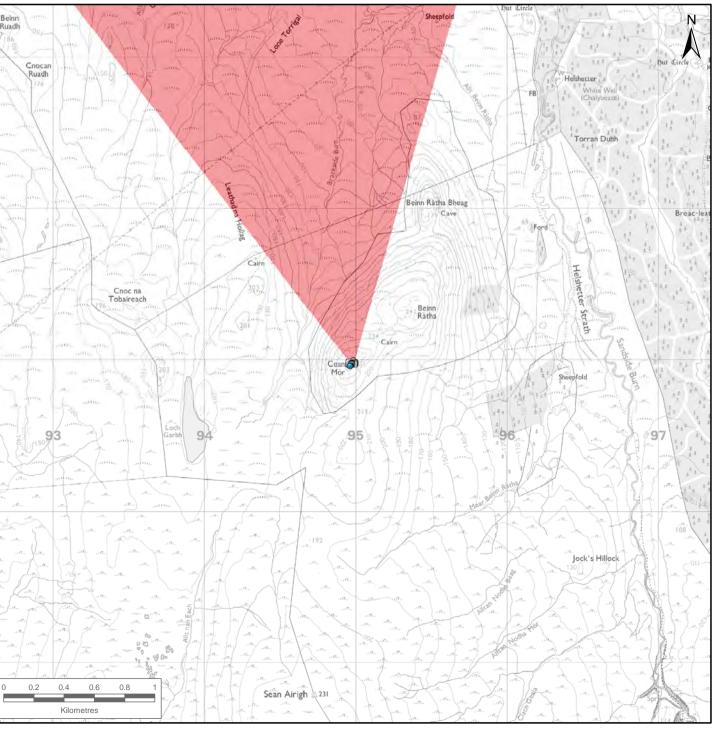


Grid Reference Viewpoint Height Direction of View Distance to Turbine

294975,960675 247 m AOD 349.14° 11,961 m

Horizontal Field of View 53.5° planar projection Principal Distance 813 mm

Camera Lens Camera Height Date and Time Nikon D7100 Nikon 50 mm 1.5 m AGL 19/12/2015 11:51



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		- manager - manager

Viewpoint 1: Ben Ratha

Produced by:





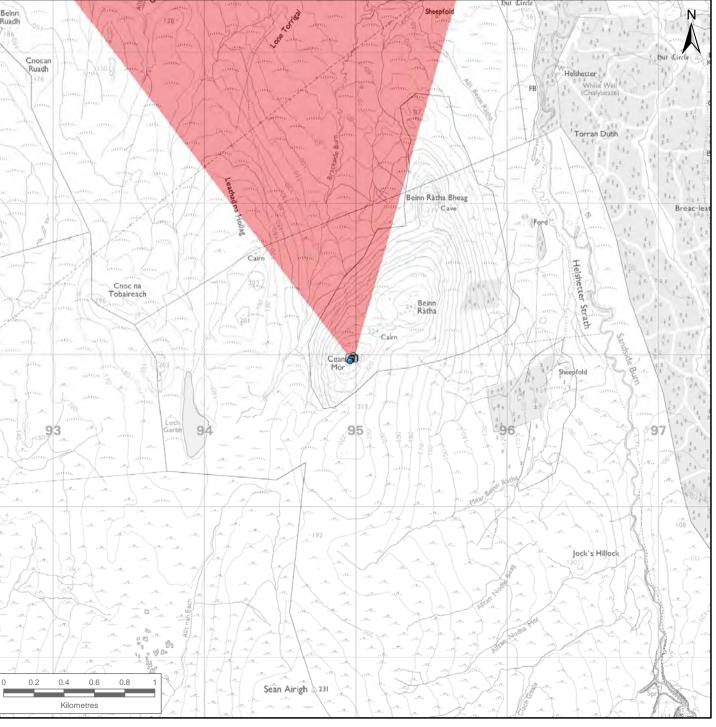
Grid Reference Viewpoint Height Direction of View Distance to Turbine 247 m AOD 349.14° 11,961 m

Principal Distance

813 mm

Camera Lens Camera Height Date and Time

Nikon D7100 Nikon 50 mm 1.5 m AGL 19/12/2015 11:51

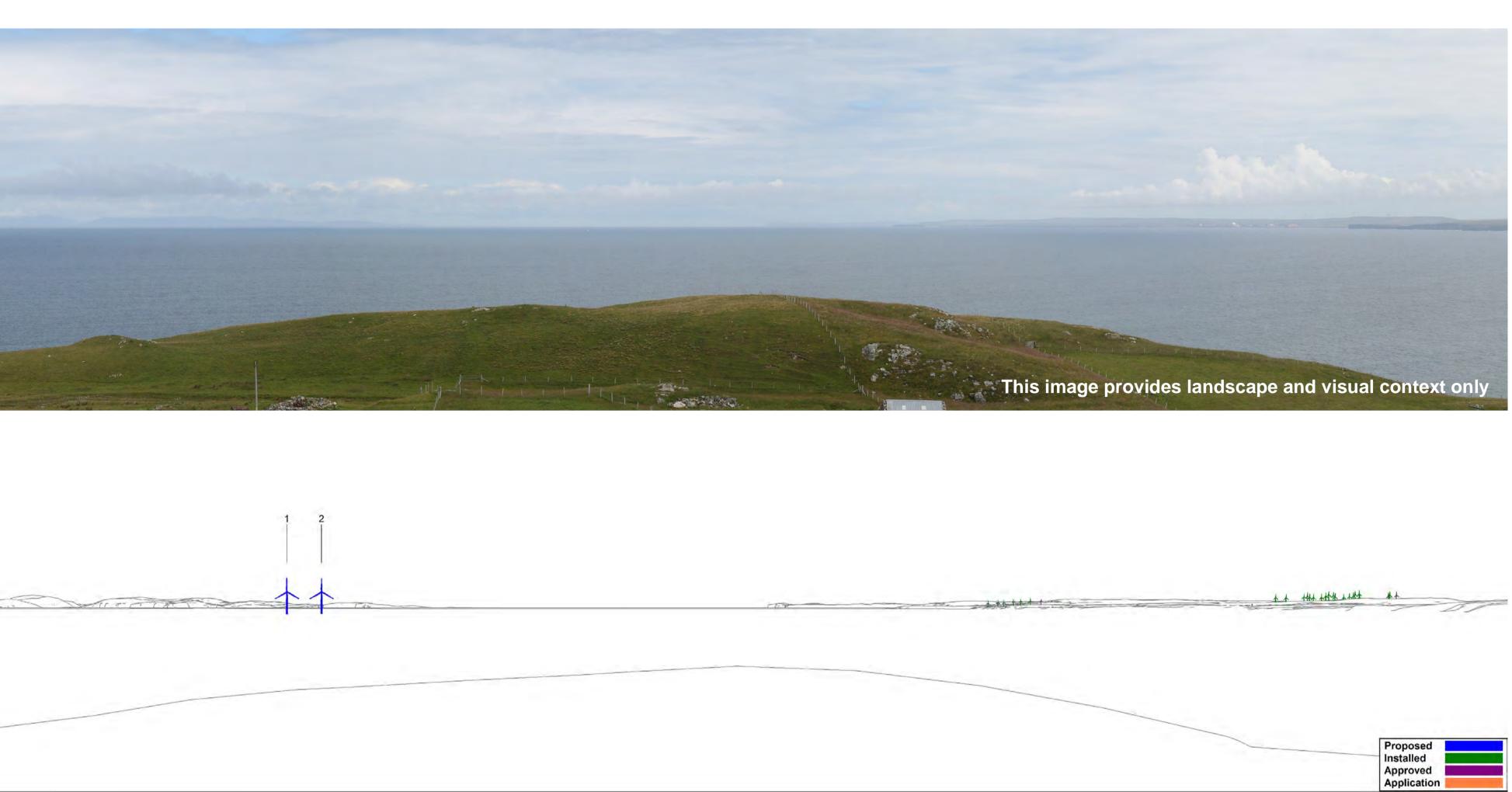


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Grid Reference Viewpoint Height Direction of View Distance to Turbine

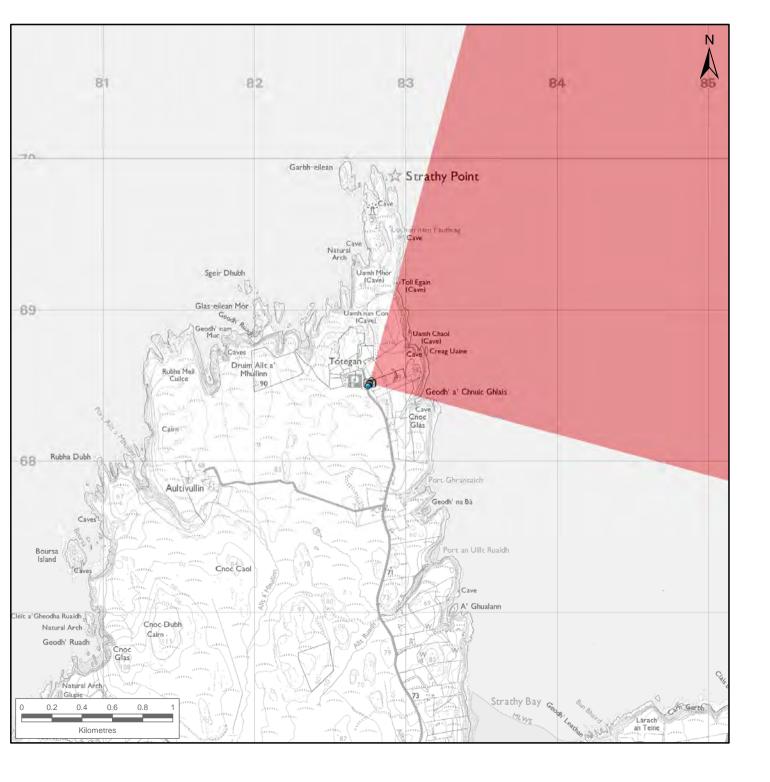
282762, 968512 65 m AOD 60.13° 8,665 m

Horizontal Field of View 90° cylindrical projection Principal Distance

522 mm

Camera Lens Camera Height Date and Time

Canon EOS 5D Mark III Canon EF 50 mm 1:14 1.5 m AGL 13/07/2016 12:12





Viewpoint 2: Strathy Point Car Park

Produced by:



Grid Reference Viewpoint Height Direction of View Distance to Turbine

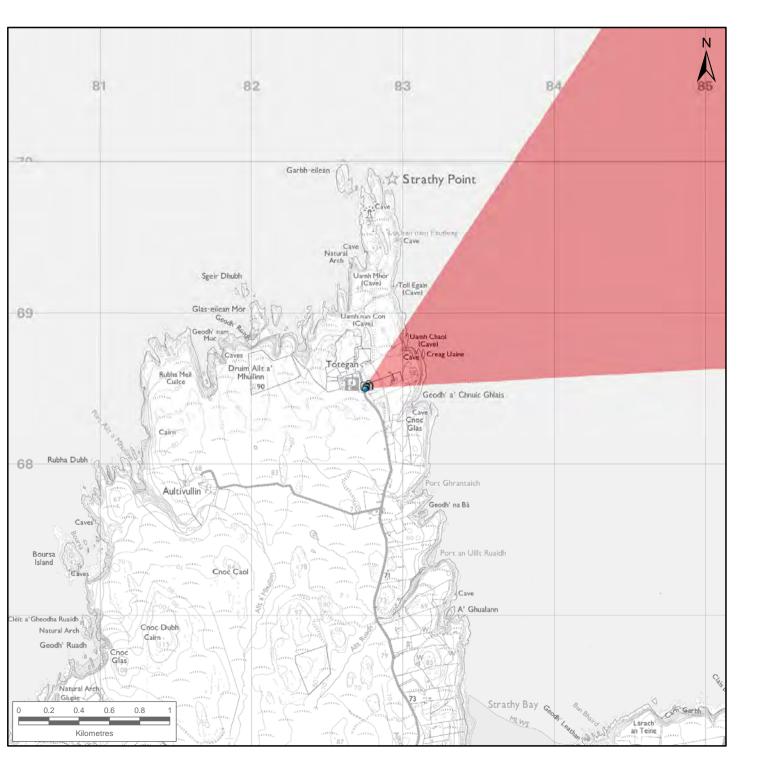
282762, 968512 65 m AOD 60.13° 8,665 m

Horizontal Field of View 53.5° planar projection Principal Distance

813 mm

Camera Lens Camera Height Date and Time

Canon EOS 5D Mark III Canon EF 50 mm 1:14 1.5 m AGL 13/07/2016 12:12

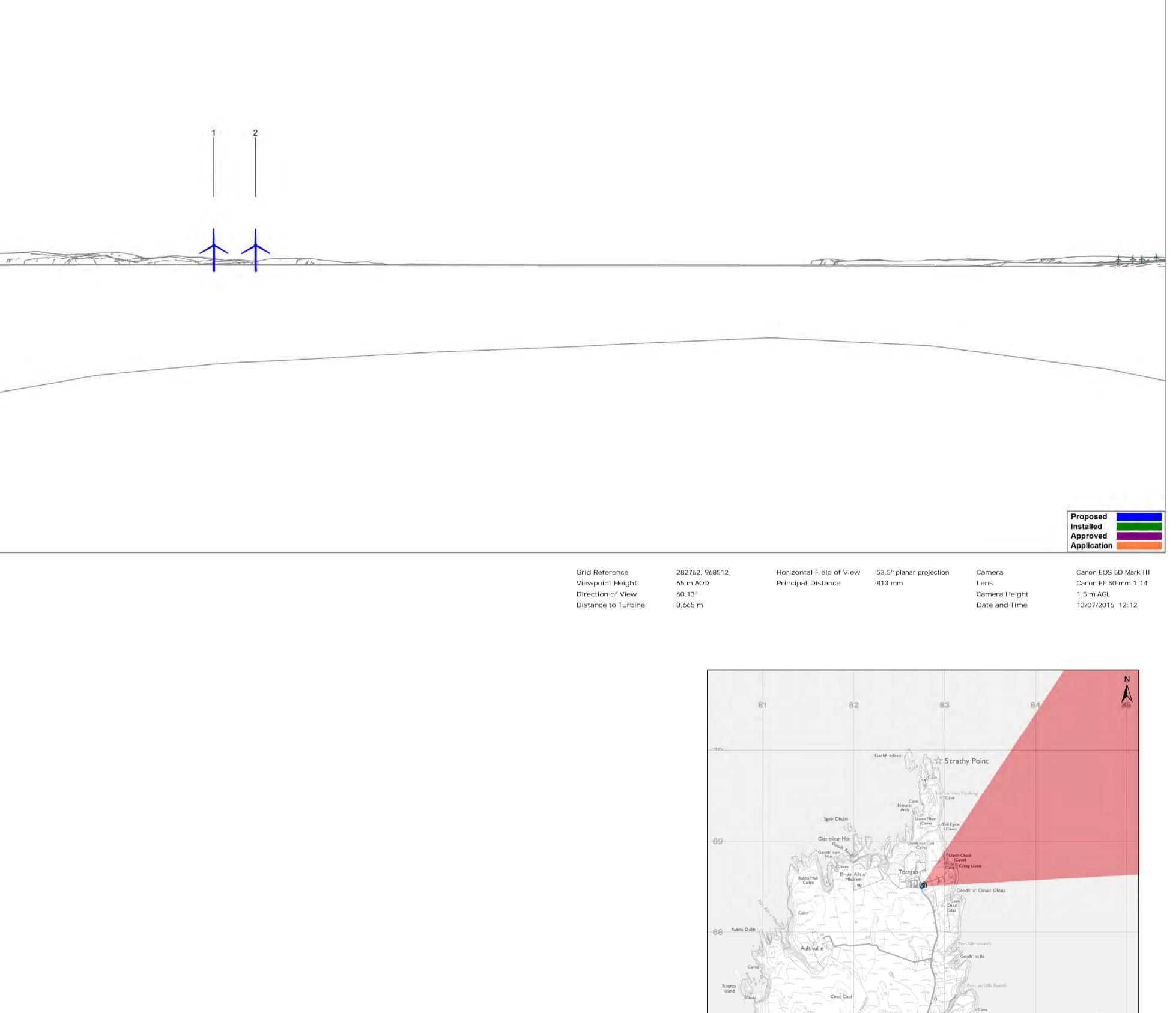


Wire	ine	drawing

Viewpoint 2: Strathy Point Car Park

Produced by:





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Geodh' Ruadh

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Viewpoint 3: Portskerra / Melvich

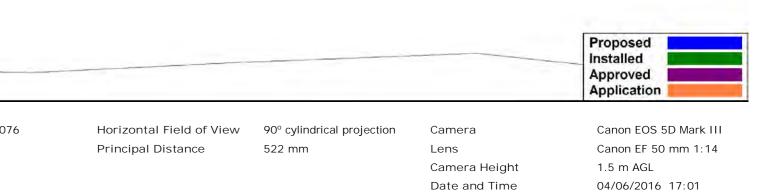
Produced by:



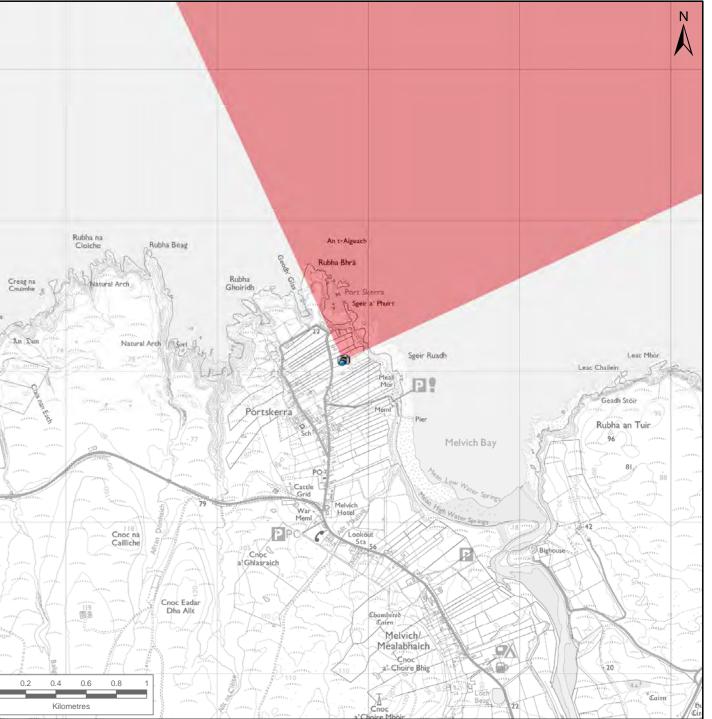
Grid Reference Viewpoint Height Direction of View Distance to Turbine 287837, 966076 29 m AOD 20.00° 7,156 m

AT DEF





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Viewpoint 3: Portskerra / Melvich

Produced by:



Grid Reference Viewpoint Height Direction of View Distance to Turbine

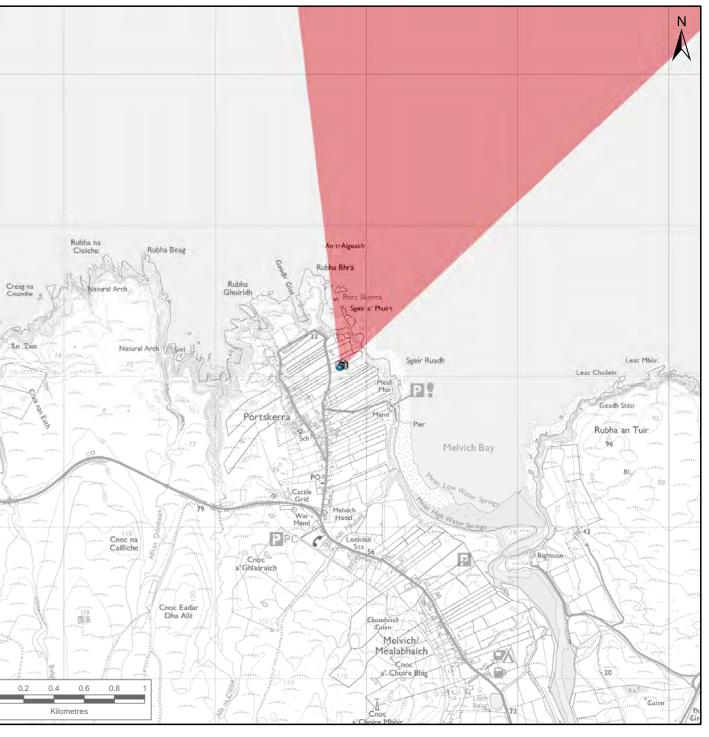
287837,966076 29 m AOD 20.00° 7,156 m

Horizontal Field of View 53.5° planar projection Principal Distance

813 mm

Camera Lens Camera Height Date and Time

Canon EOS 5D Mark III Canon EF 50 mm 1:14 1.5 m AGL 04/06/2016 17:01



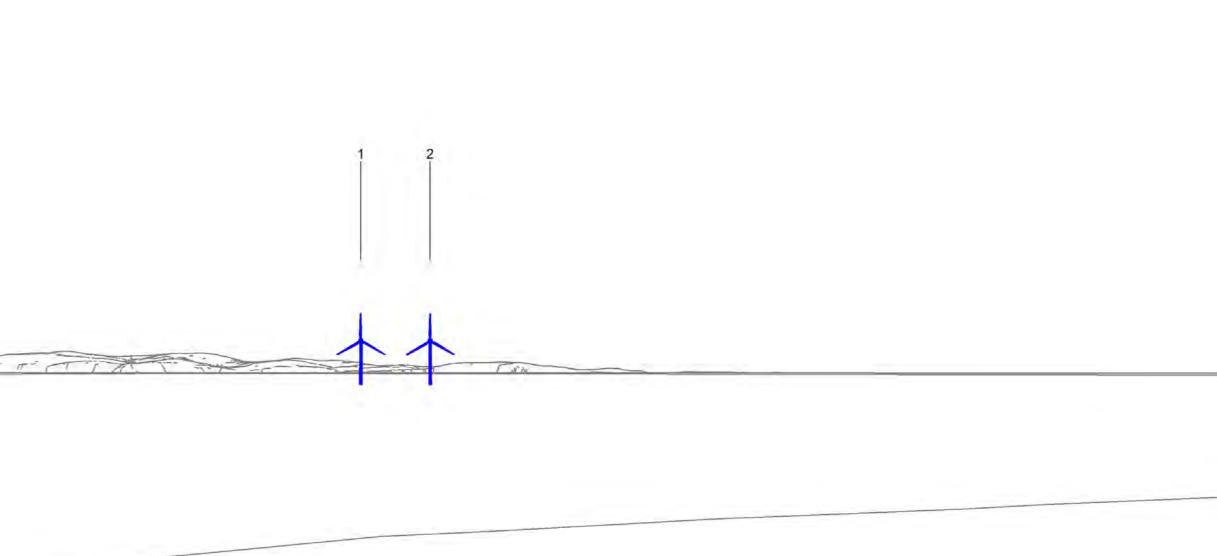
Wireline drawing		

AT Filip

Viewpoint 3: Portskerra / Melvich

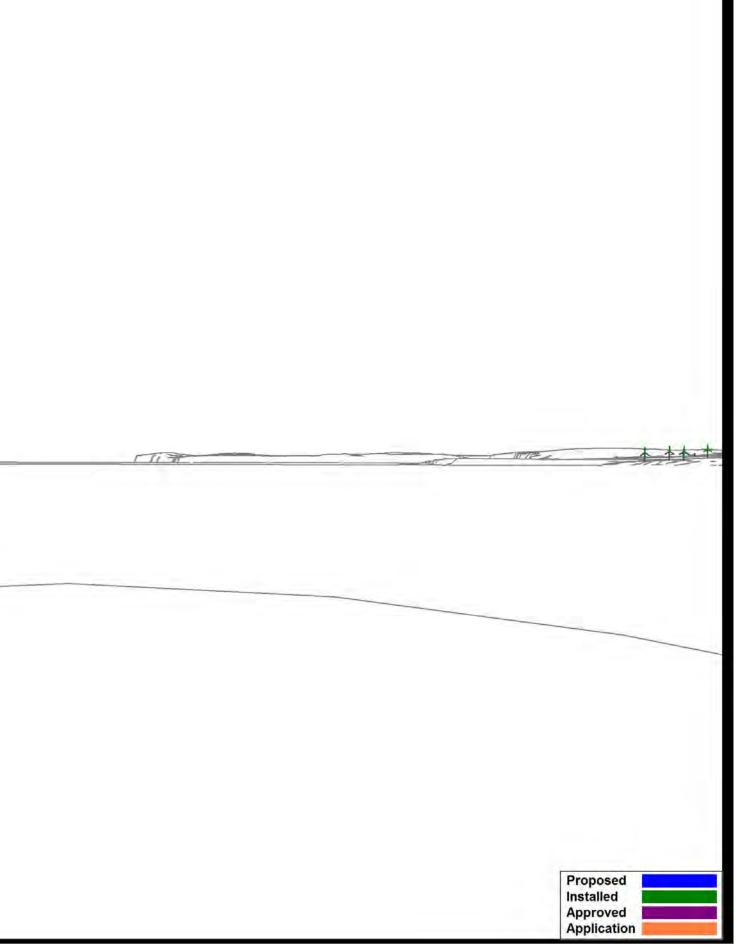
Produced by:





Grid Reference Viewpoint Height Direction of View Distance to Turbine

287837, 966076 29 m AOD 20.00° 7,156 m

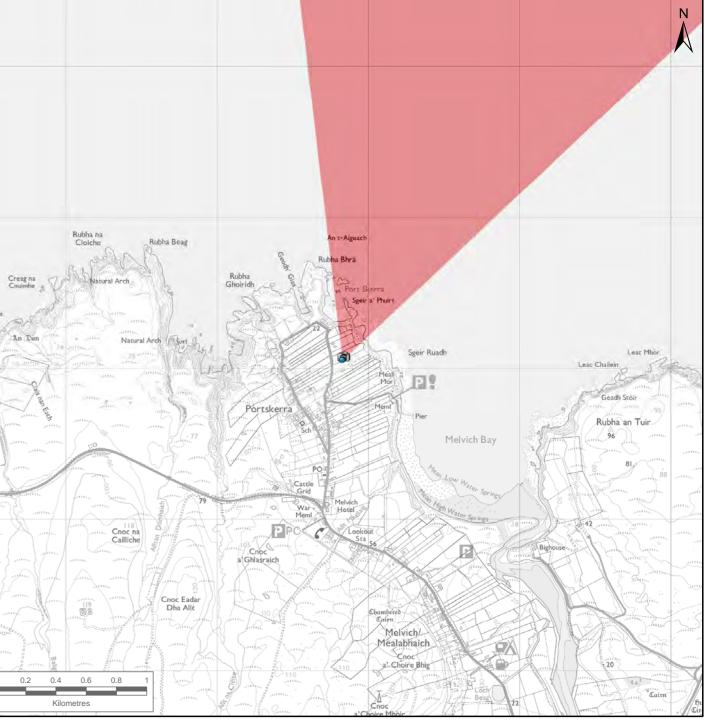


Horizontal Field of View 53.5° planar projection Principal Distance

813 mm

Camera Lens Camera Height Date and Time

Canon EOS 5D Mark III Canon EF 50 mm 1:14 1.5 m AGL 04/06/2016 17:01



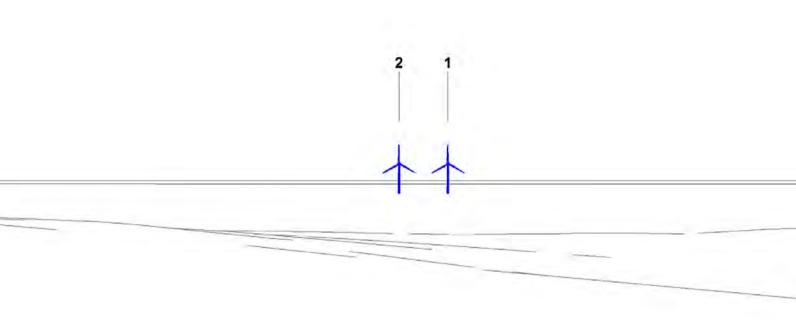
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Viewpoint 4: Drum Holliston Car Park

Produced by:



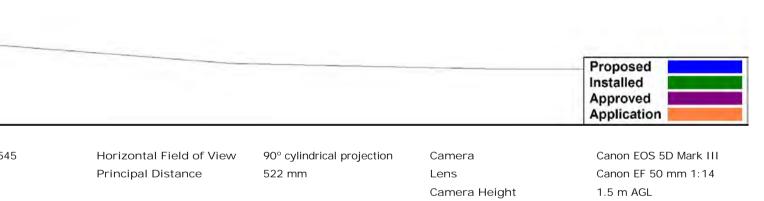




Grid Reference Viewpoint Height Direction of View Distance to Turbine

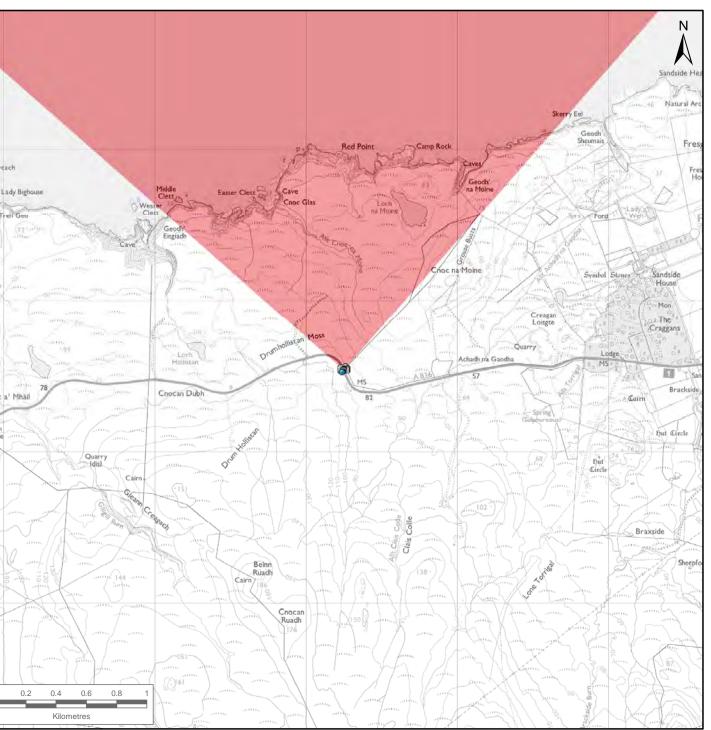
293250, 964545 91 m AOD 356.28° 8,207 m

This image provides landscape and visual context only



Date and Time

04/06/2016 15:52





Viewpoint 4: Drum Holliston Car Park

Produced by:



Grid Reference Viewpoint Height Direction of View Distance to Turbine

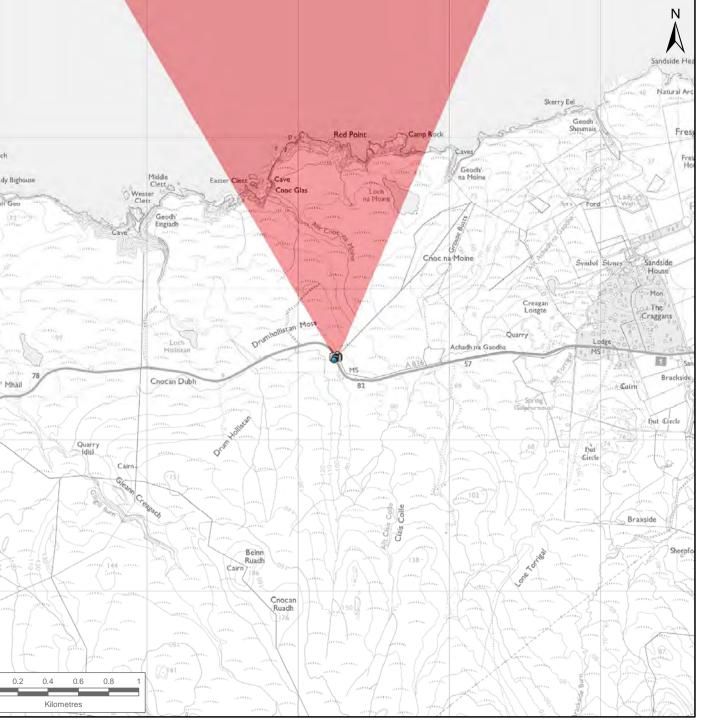
293250, 964545 91 m AOD 356.28° 8,207 m

Horizontal Field of View 53.5° planar projection Principal Distance

813 mm

Camera Lens Camera Height Date and Time

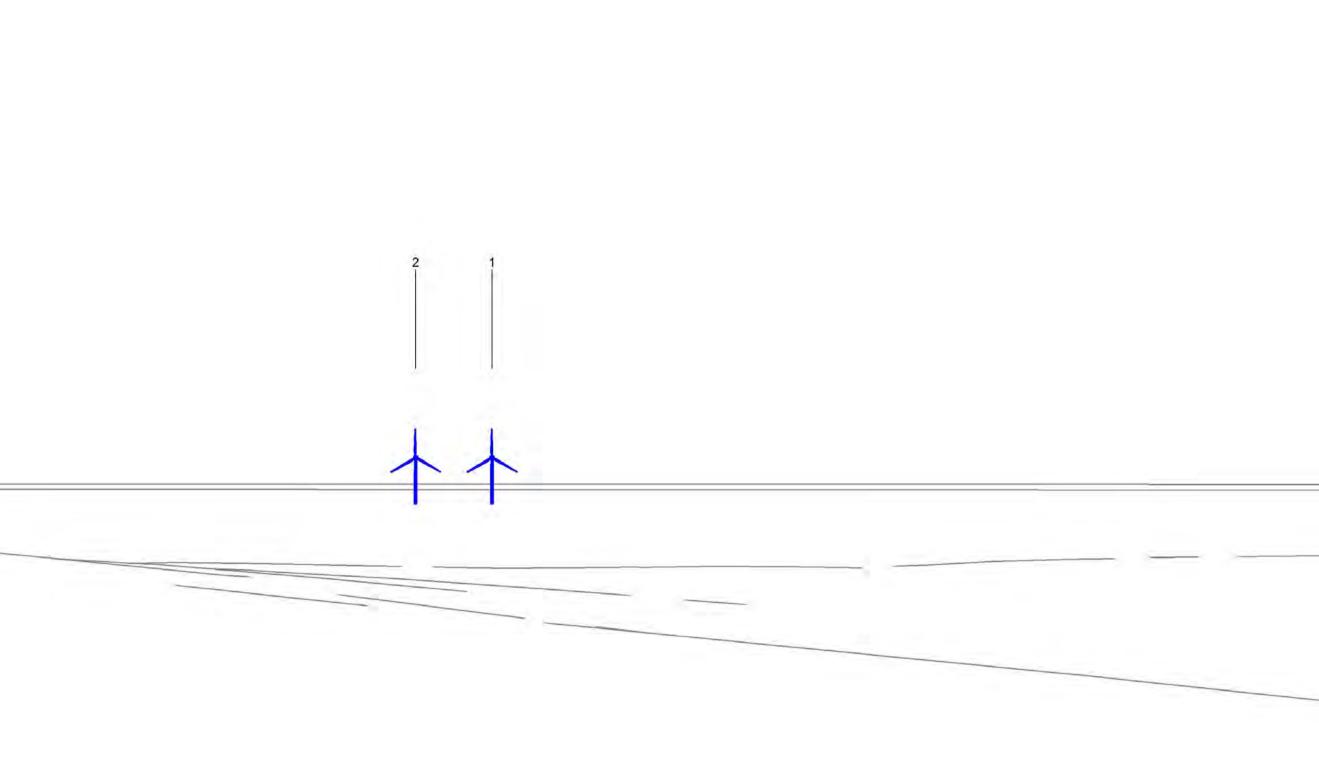
Canon EOS 5D Mark III Canon EF 50 mm 1:14 1.5 m AGL 04/06/2016 15:52



Viewpoint 4: Drum Holliston Car Park

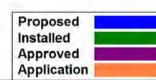
Produced by:





Grid Reference Viewpoint Height Direction of View Distance to Turbine

293250, 964545 91 m AOD 356.28° 8,207 m

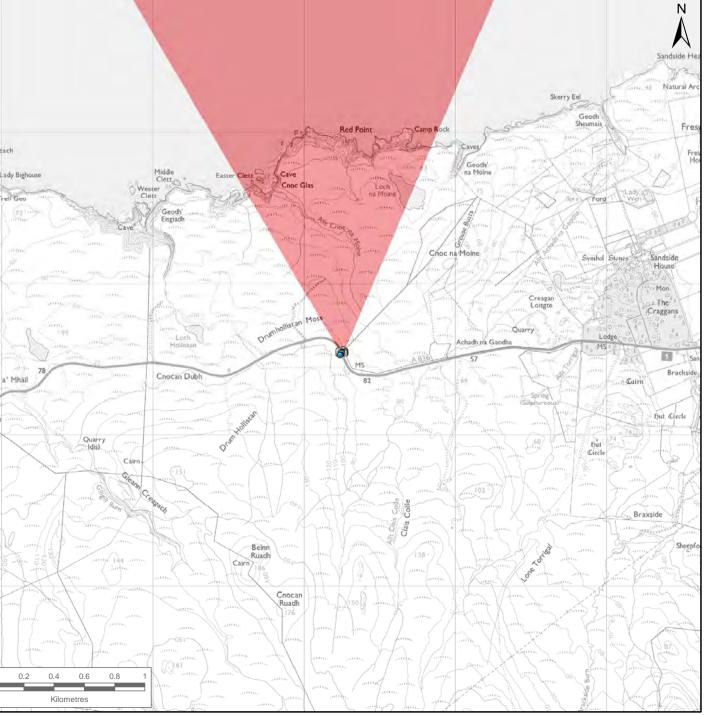


Horizontal Field of View 53.5° planar projection Principal Distance

813 mm

Camera Lens Camera Height Date and Time

Canon EOS 5D Mark III Canon EF 50 mm 1:14 1.5 m AGL 04/06/2016 15:52



Baseline photograph

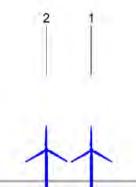
Wireline drawing

Viewpoint 5: Sandside Head

Produced by:

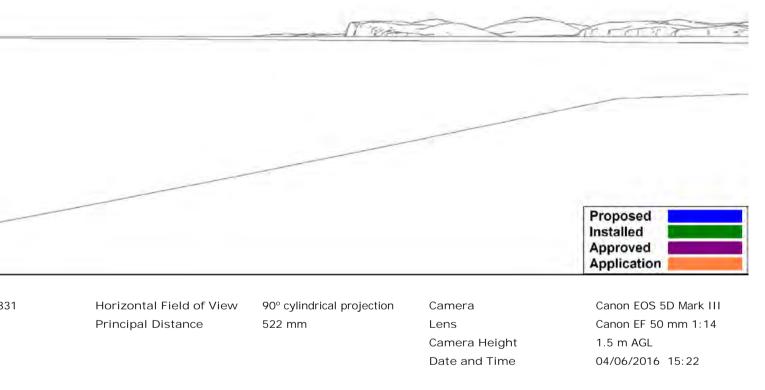


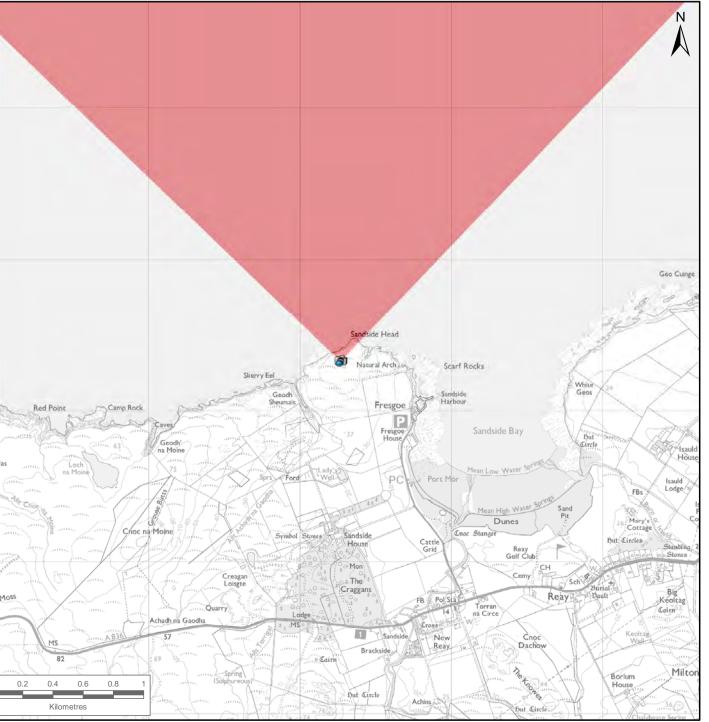


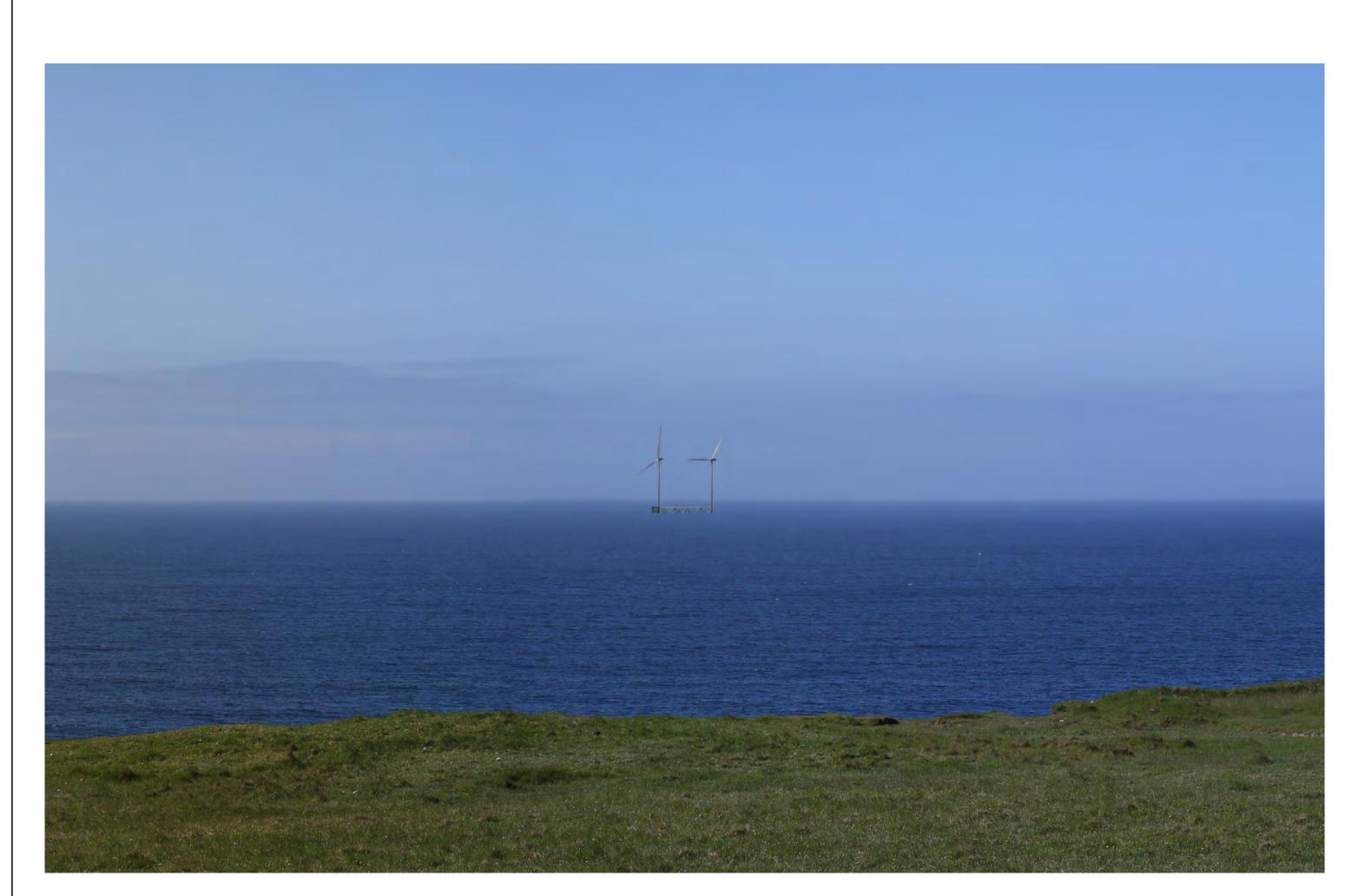




295269, 966331 43 m AOD 358.80° 6,385 m

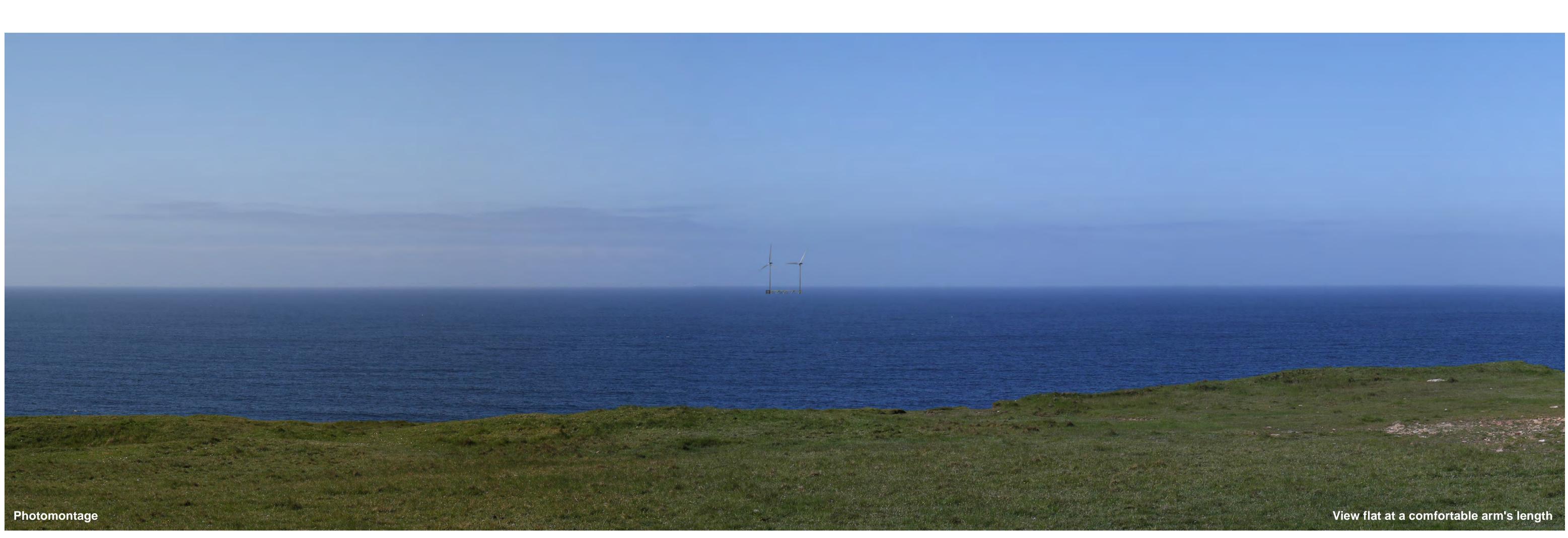






Viewpoint 5: Sandside Head

This image is intended only for use at the viewpoint.



Viewpoint 5: Sandside Head

Produced by:



Grid Reference Viewpoint Height Direction of View Distance to Turbine

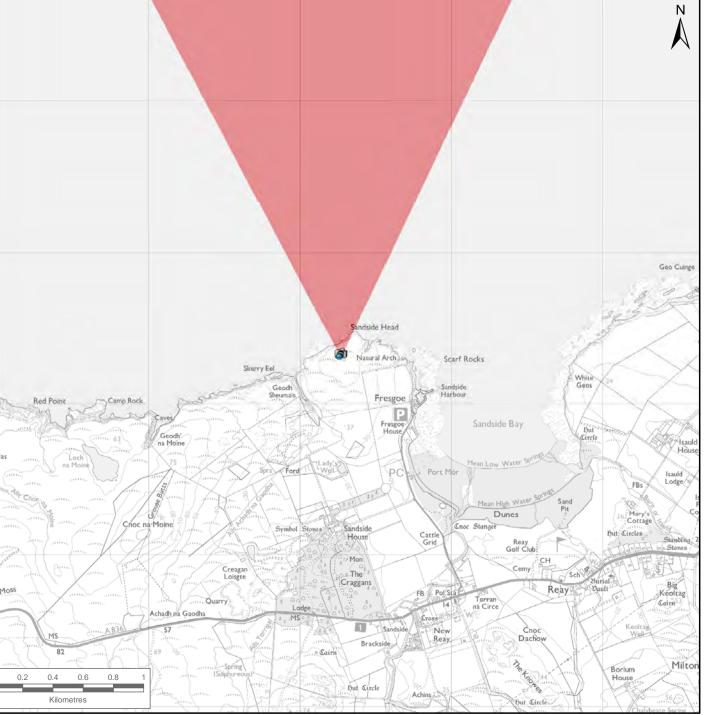
295269, 966331 43 m AOD 358.80° 6,385 m

Horizontal Field of View 53.5° planar projection Principal Distance

813 mm

Camera Lens Camera Height Date and Time

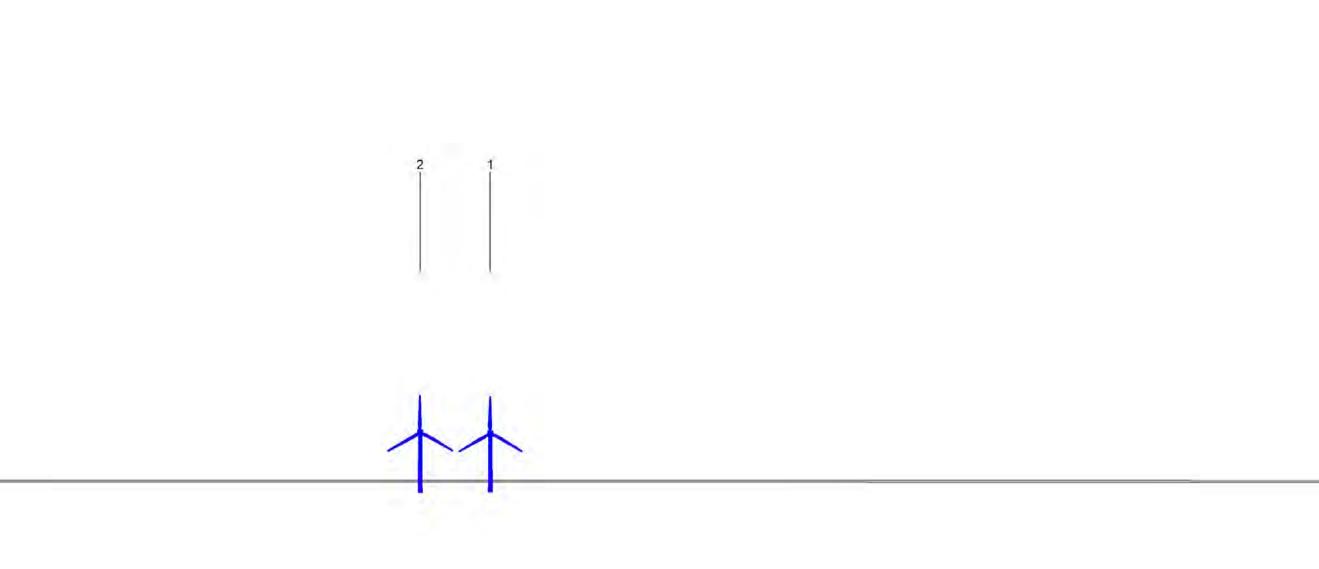
Canon EOS 5D Mark III Canon EF 50 mm 1:14 1.5 m AGL 04/06/2016 15:22



Viewpoint 5: Sandside Head

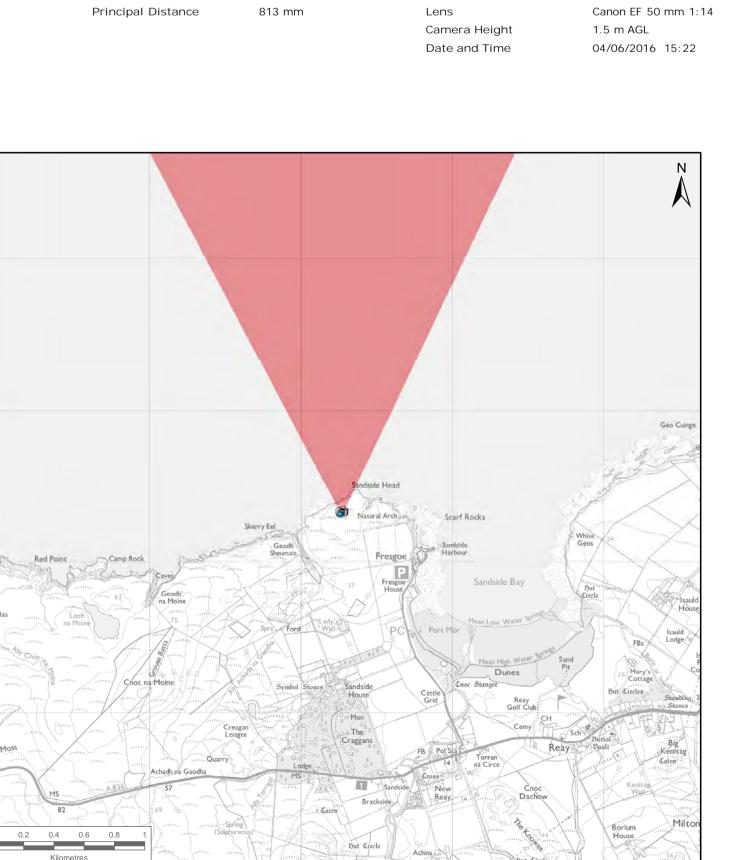
Produced by:





Grid Reference Viewpoint Height Direction of View Distance to Turbine

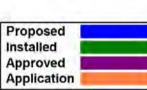
29526, 966331 43 m AOD 358.80° 6,385 m



Proposed Installed Approved Application

Horizontal Field of View 53.5° planar projection

Camera



Canon EOS 5D Mark III

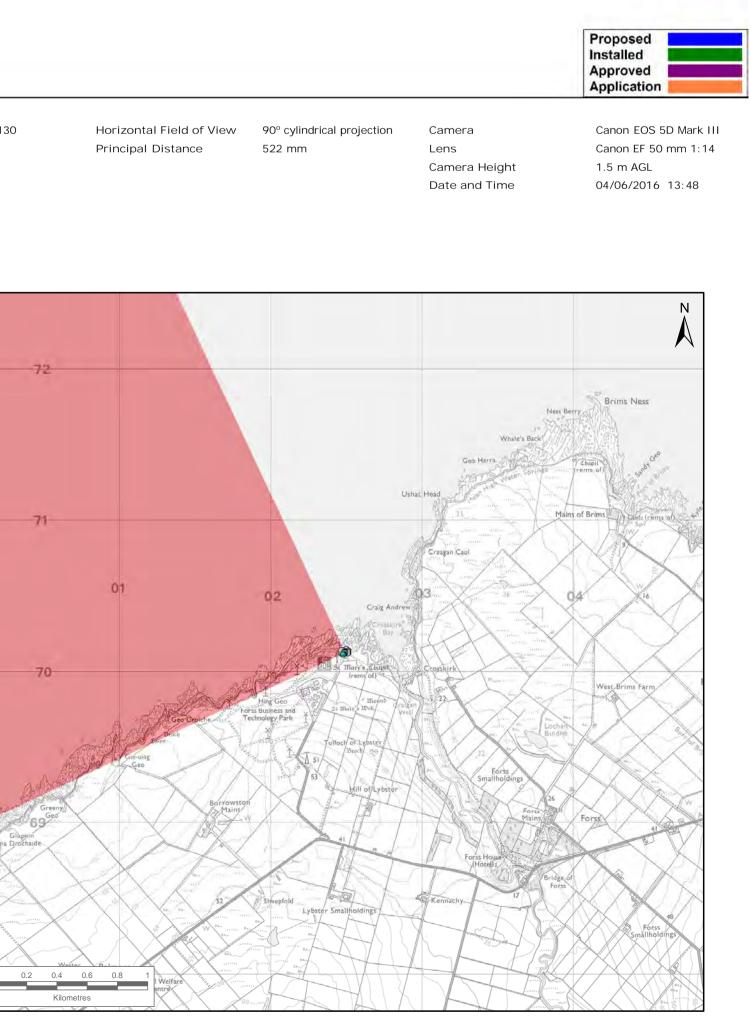


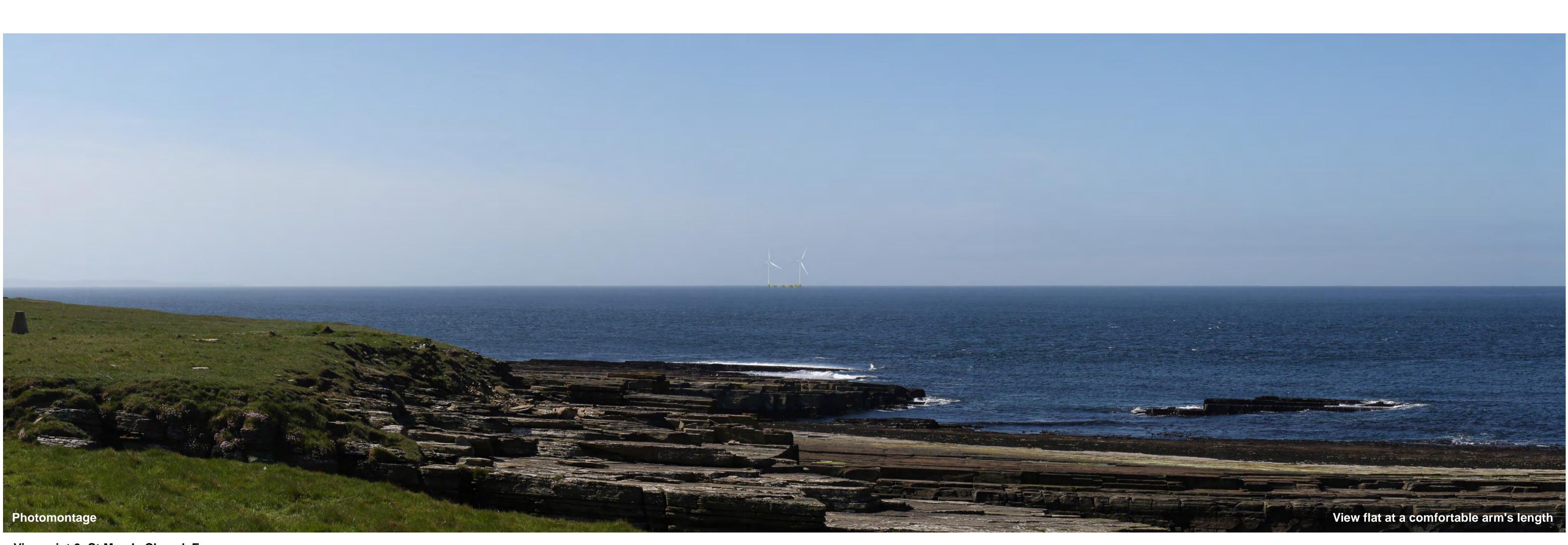
Viewpoint 6: St Mary's Chapel, Forss

Produced by:



Grid Reference Viewpoint Height Direction of View Distance to Turbine 302491, 970130 13 m AOD 289.84° 7,778 m





Viewpoint 6: St Mary's Chapel, Forss

Produced by:



Grid Reference Viewpoint Height Direction of View Distance to Turbine

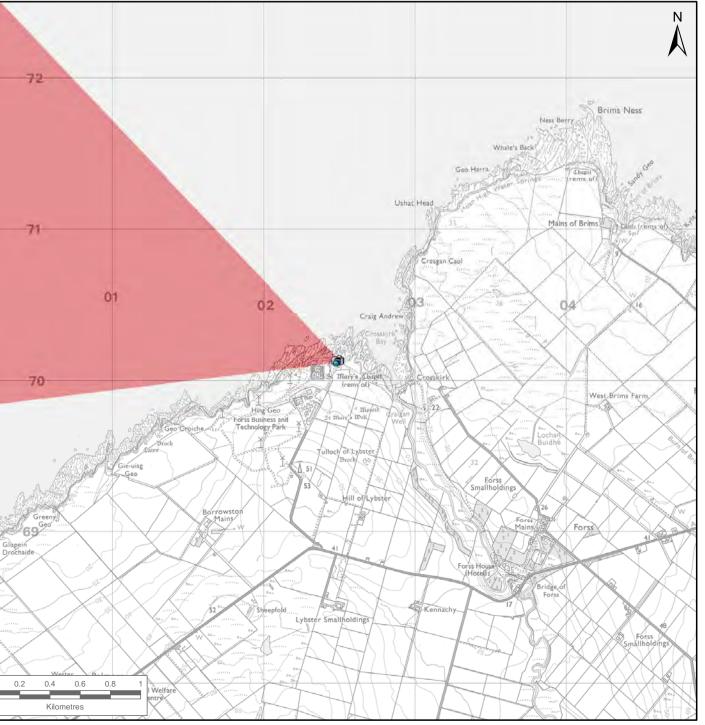
302491, 970130 13 m AOD 289.84° 7,778 m

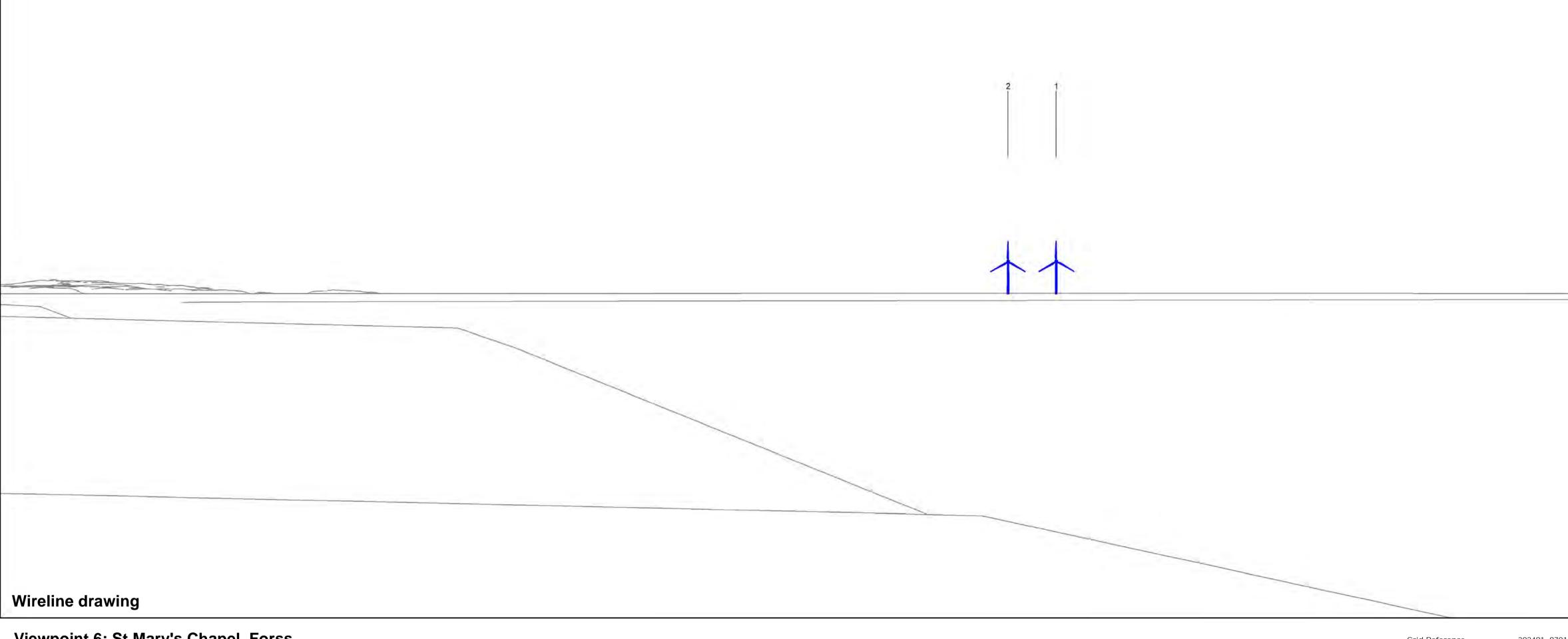
Principal Distance 813 mm

Horizontal Field of View 53.5° planar projection

Camera Lens Camera Height Date and Time

Canon EOS 5D Mark III Canon EF 50 mm 1:14 1.5 m AGL 04/06/2016 13:48





Viewpoint 6: St Mary's Chapel, Forss

Produced by:



Grid Reference Viewpoint Height Direction of View Distance to Turbine

302491, 970130 13 m AOD 289.84° 7,778 m

Horizontal Field of View 53.5° planar projection Principal Distance 813 mm

Camera Lens Camera Height Date and Time

Canon EOS 5D Mark III Canon EF 50 mm 1:14 1.5 m AGL 04/06/2016 13:48





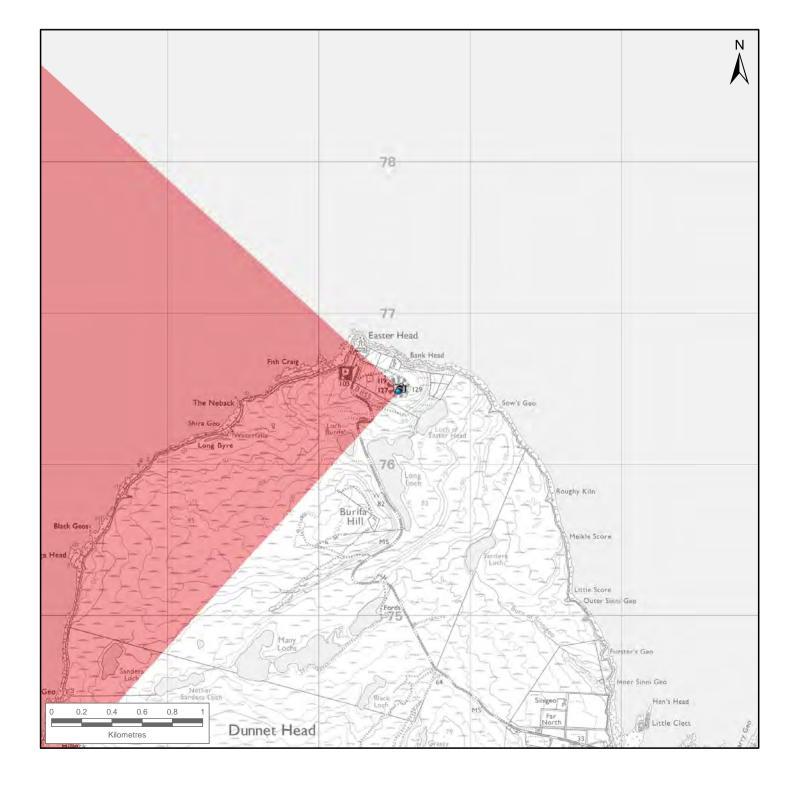
Viewpoint 7: Dunnet Head

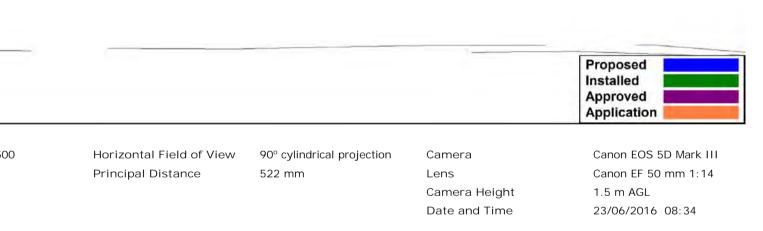
Produced by:

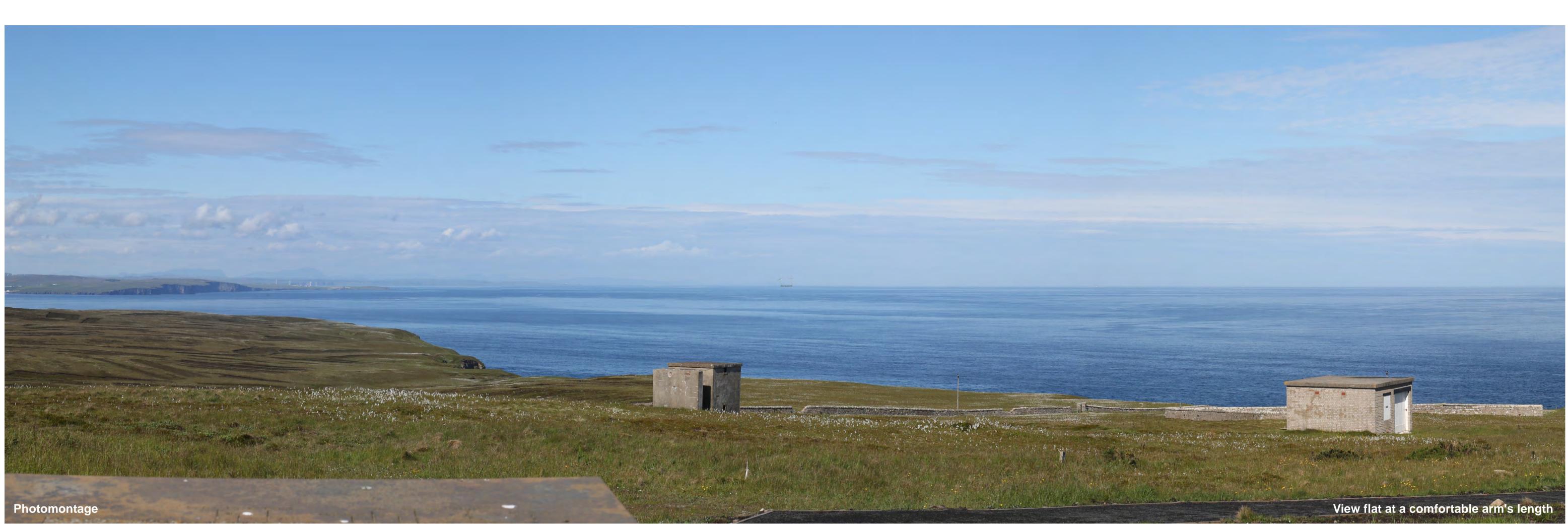


Grid Reference Viewpoint Height Direction of View Distance to Turbine

320534, 976500 124 m AOD 267.07° 25,308 m







Viewpoint 7: Dunnet Head

Produced by:



Grid Reference Viewpoint Height Direction of View Distance to Turbine

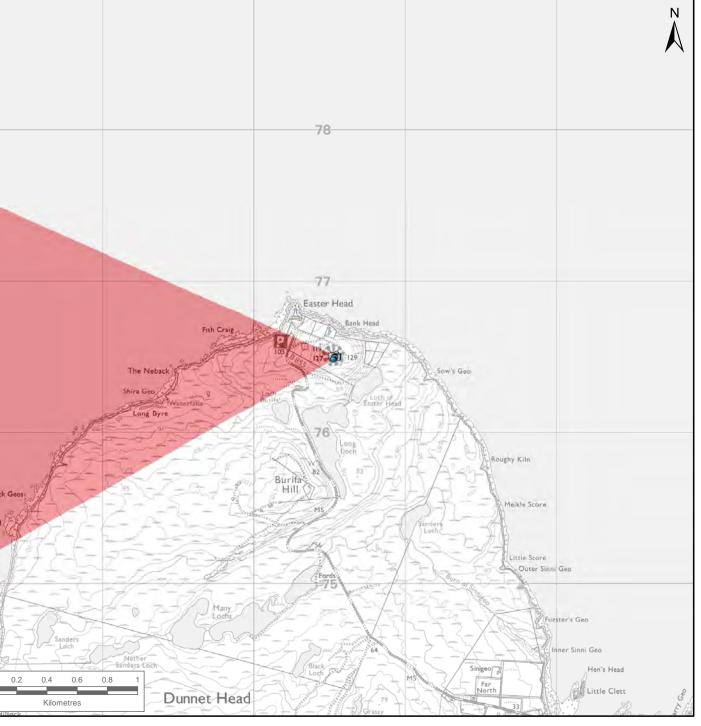
320534, 976500 124 m AOD 267.07° 25,308 m

Horizontal Field of View 53.5° planar projection Principal Distance

813 mm

Camera Lens Camera Height Date and Time

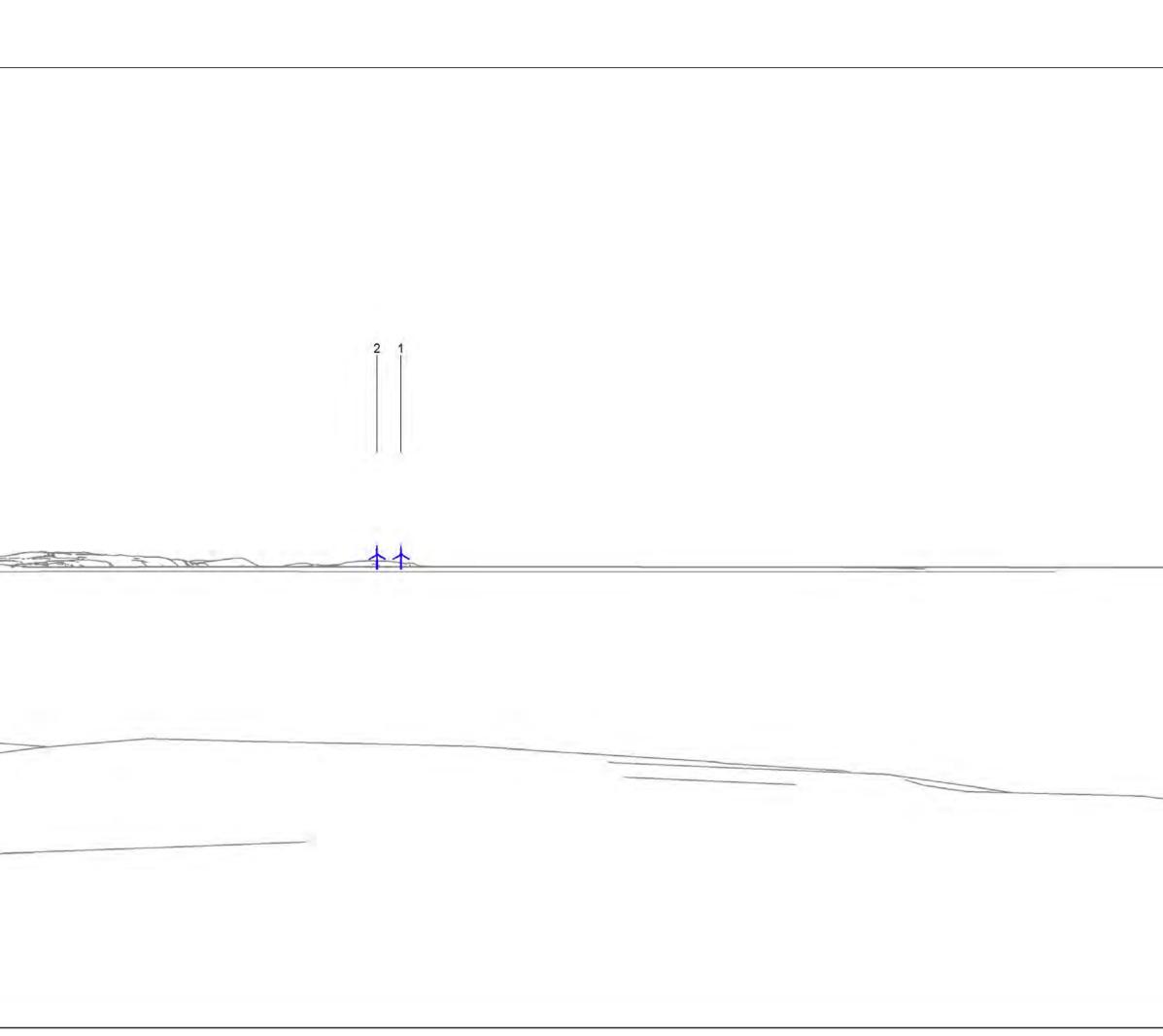
Canon EOS 5D Mark III Canon EF 50 mm 1:14 1.5 m AGL 23/06/2016 08:34



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1	15mm	555 620	and the second	
Nireline d				

Produced by:





Grid Reference Viewpoint Height Direction of View Distance to Turbine

320534, 976500 124 m AOD 267.07° 25,308 m

Proposed Installed Approved Application

Canon EOS 5D Mark III

Canon EF 50 mm 1:14

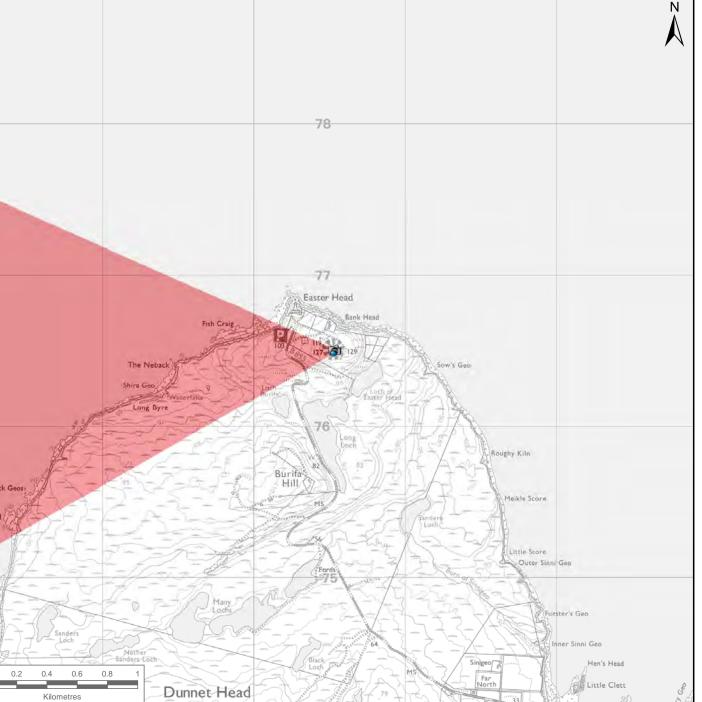
23/06/2016 08:34

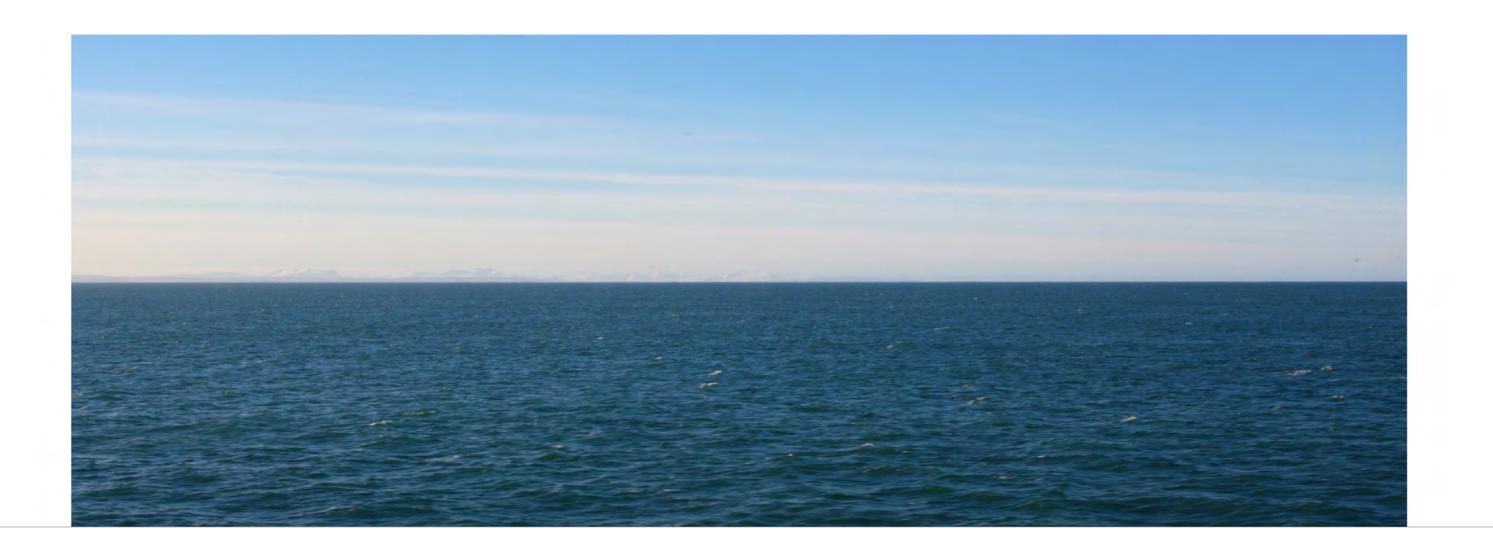
1.5 m AGL

Horizontal Field of View 53.5° planar projection Principal Distance

813 mm

Camera Lens Camera Height Date and Time





Viewpoint 8: Scrabster - Stromness Ferry

Produced by:

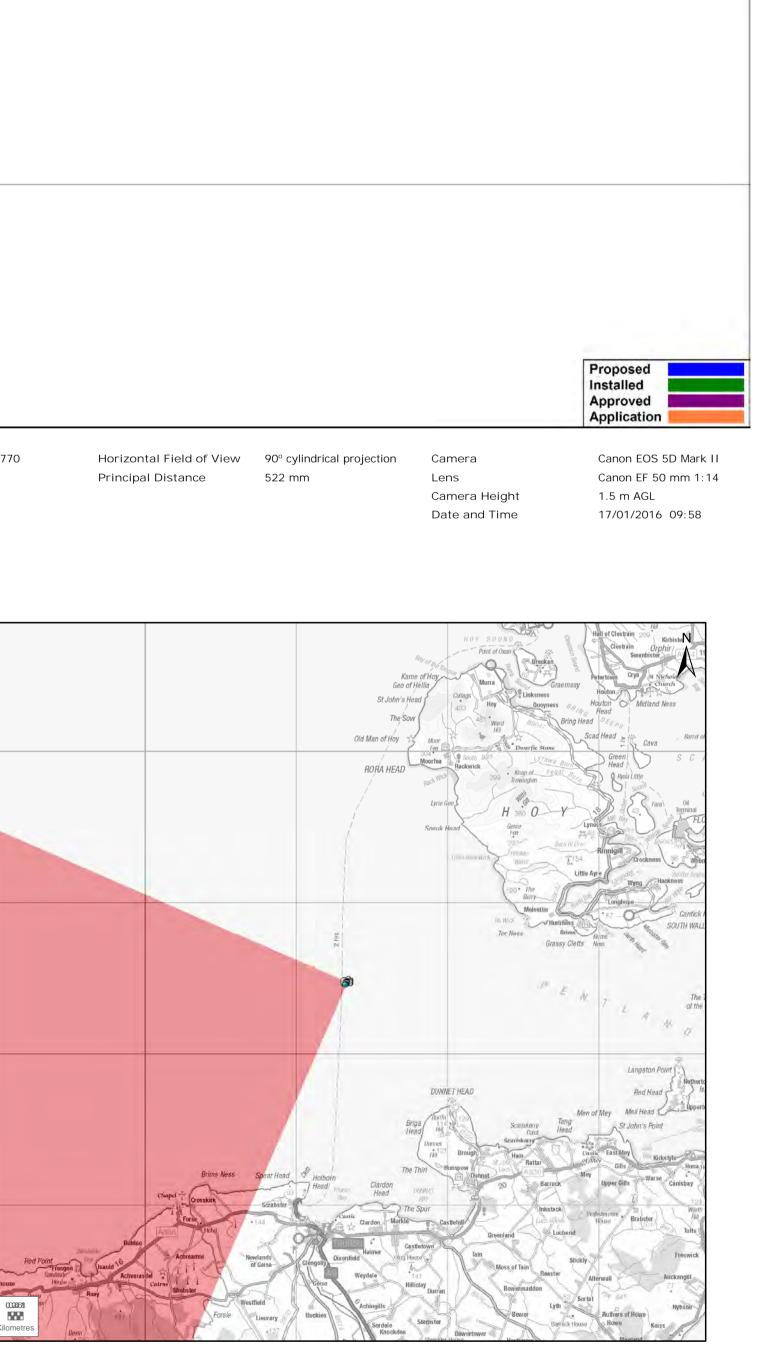


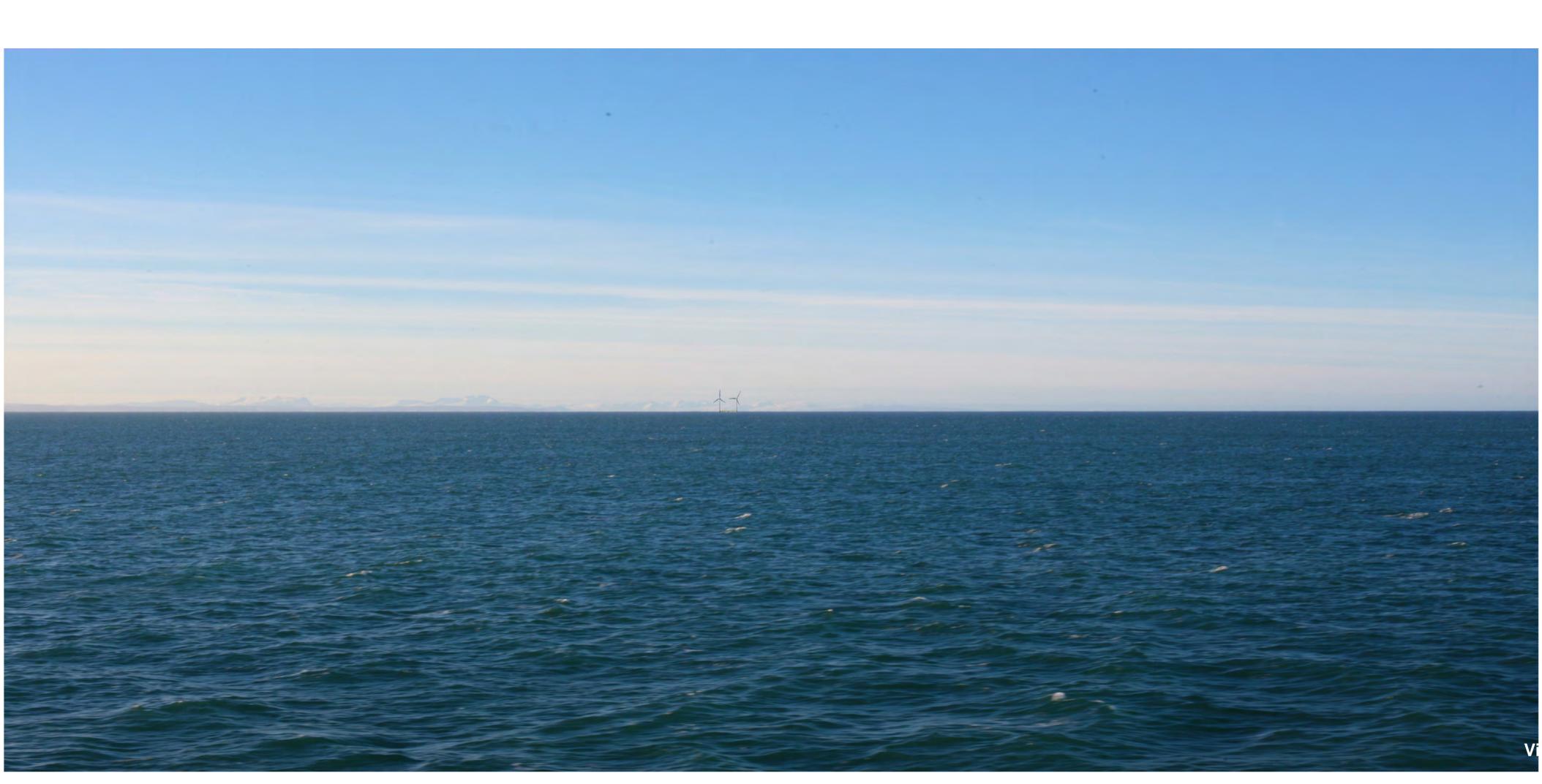
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2 1

Grid Reference Viewpoint Height Direction of View Distance to Turbine

313331, 984770 0 m AOD 248.46° 19,421 m





Viewpoint 8: Scrabster - Stromness Ferry

Produced by:



Grid Reference Viewpoint Height Direction of View Distance to Turbine

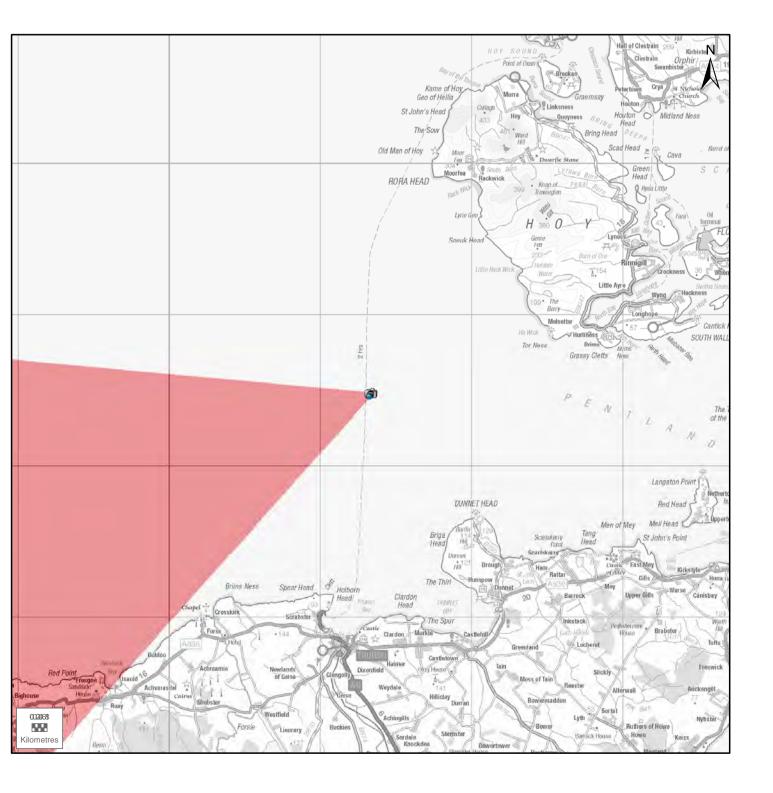
313331, 984770 0 m AOD 248.46° 19,421 m

Principal Distance

Horizontal Field of View 53.5° planar projection 813 mm

Camera Lens Camera Height Date and Time

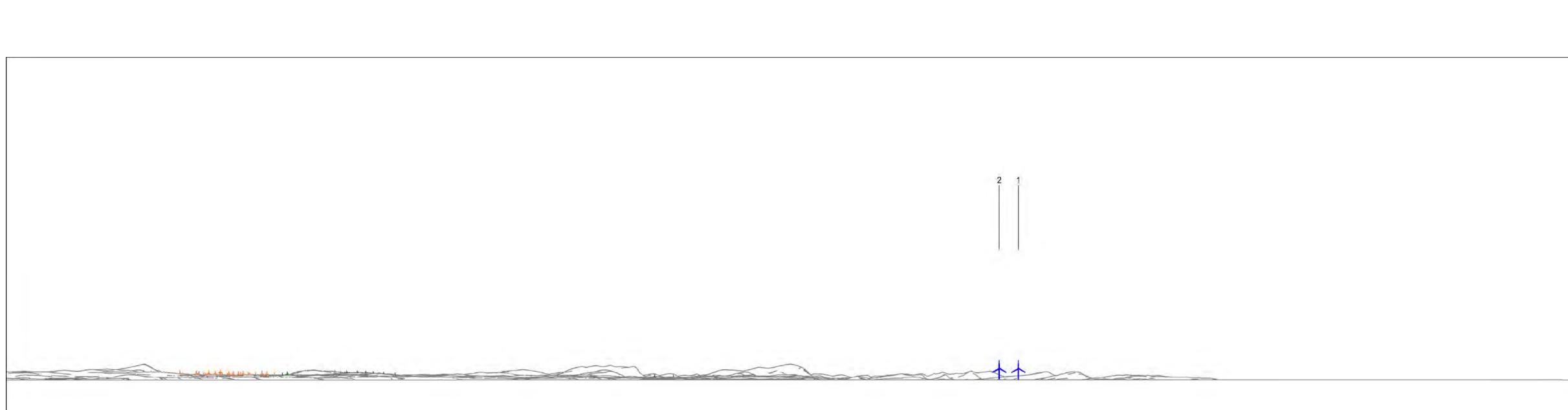
Canon EOS 5D Mark II Canon EF 50 mm 1:14 1.5 m AGL 17/01/2016 09:58



Viewpoint 8: Scrabster - Stromness Ferry

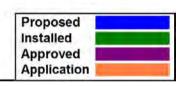
Produced by:





Grid Reference Viewpoint Height Direction of View Distance to Turbine

313331, 984770 0 m AOD 248.46° 19,421 m



Canon EOS 5D Mark II

Canon EF 50 mm 1:14

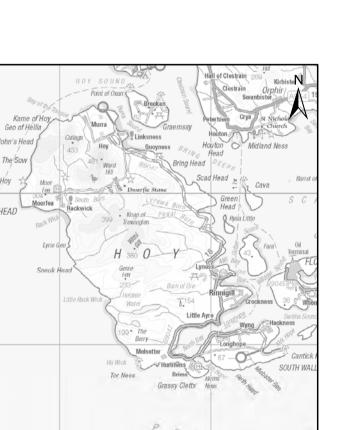
17/01/2016 09:58

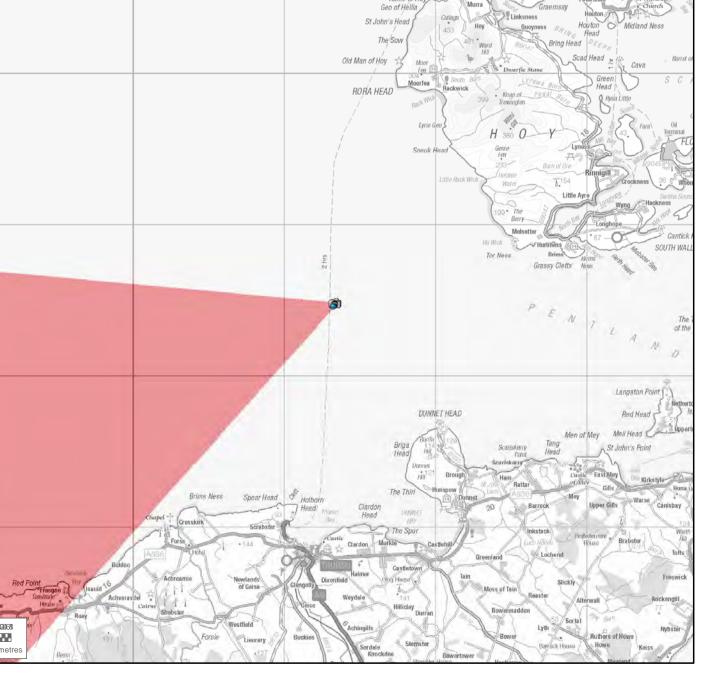
1.5 m AGL

Horizontal Field of View 53.5° planar projection Principal Distance

813 mm

Camera Lens Camera Height Date and Time





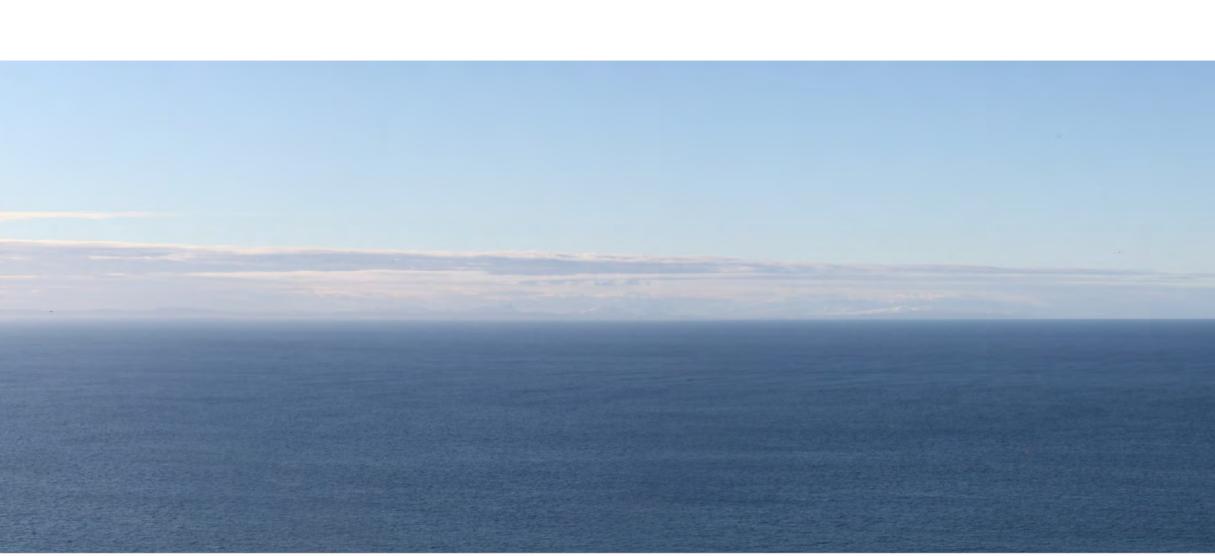
Baseline photograph

Wireline drawing

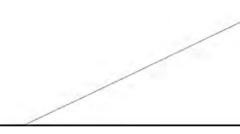
Viewpoint 9: Path to the Old Man of Hoy

Produced by:

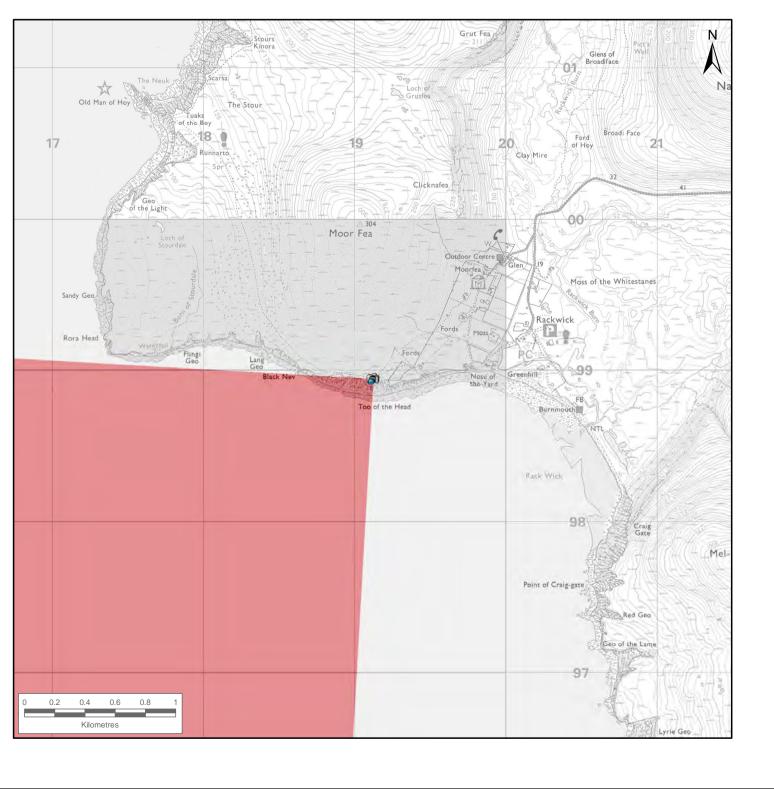


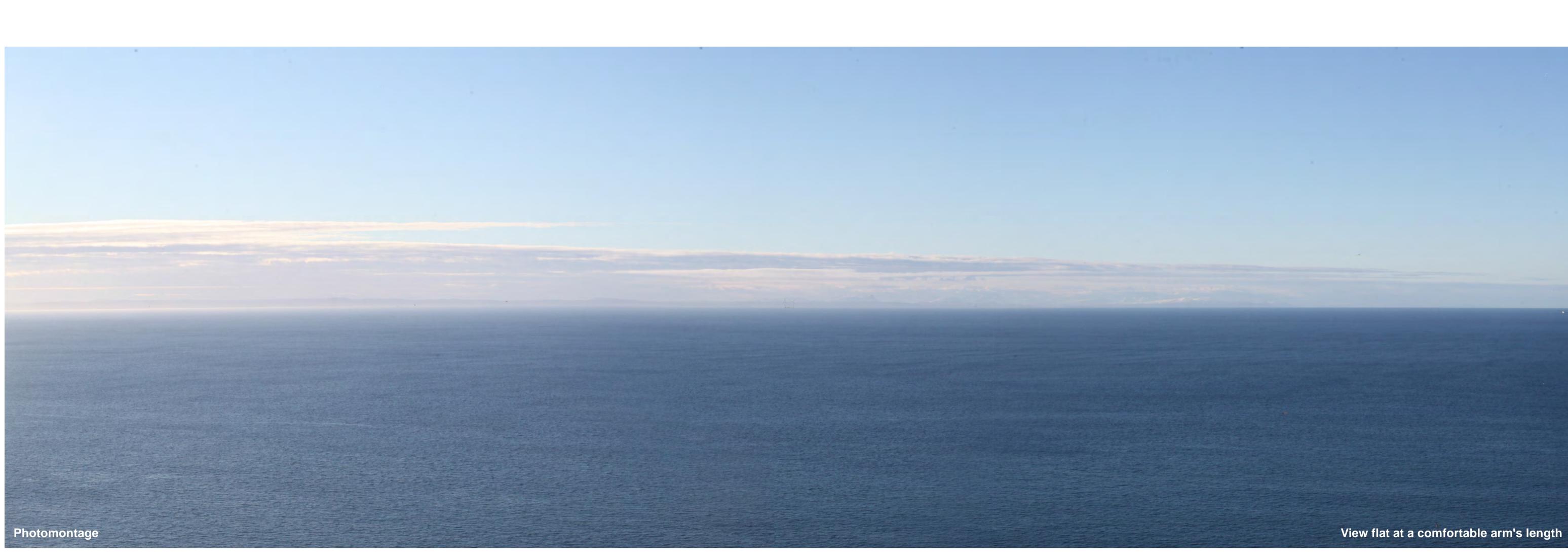


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Grid Reference Viewpoint Height Direction of View Distance to Turbine 319120, 998942 135 m AOD 228.26° 32,014 m

135 m AOE 228.26° 32,014 m 



Viewpoint 9: Path to the Old Man of Hoy

Produced by:



Grid Reference Viewpoint Height Direction of View Distance to Turbine

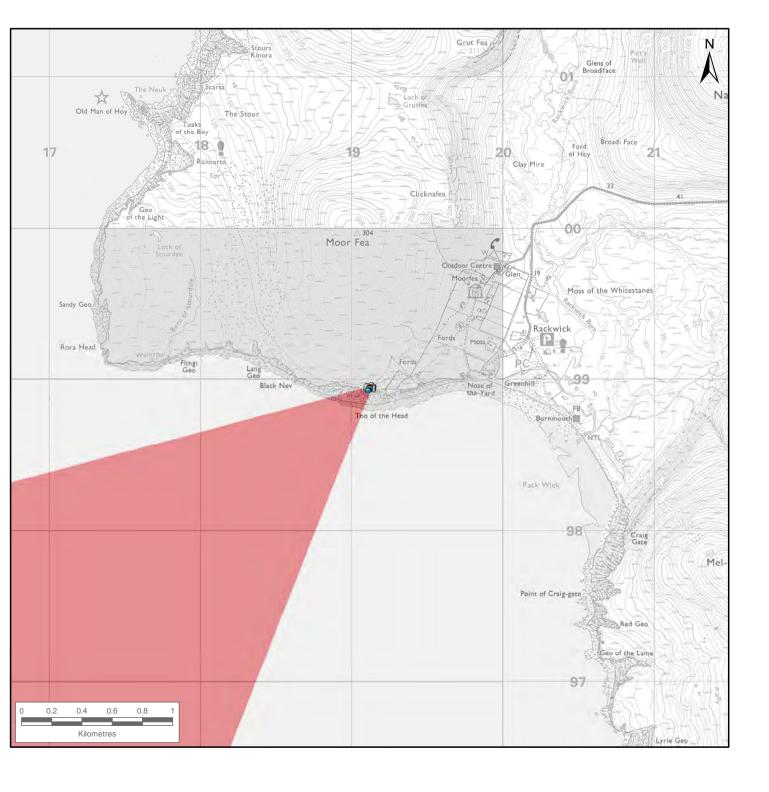
319120, 998942 135 m AOD 228.26° 32,014 m

Horizontal Field of View 53.5° planar projection Principal Distance

813 mm

Camera Lens Camera Height Date and Time

Canon EOS 5D Mark II Canon EF 50 mm 1:14 1.5 m AGL 20/01/2016 12:10



Viewpoint 9: Path to the Old Man of Hoy

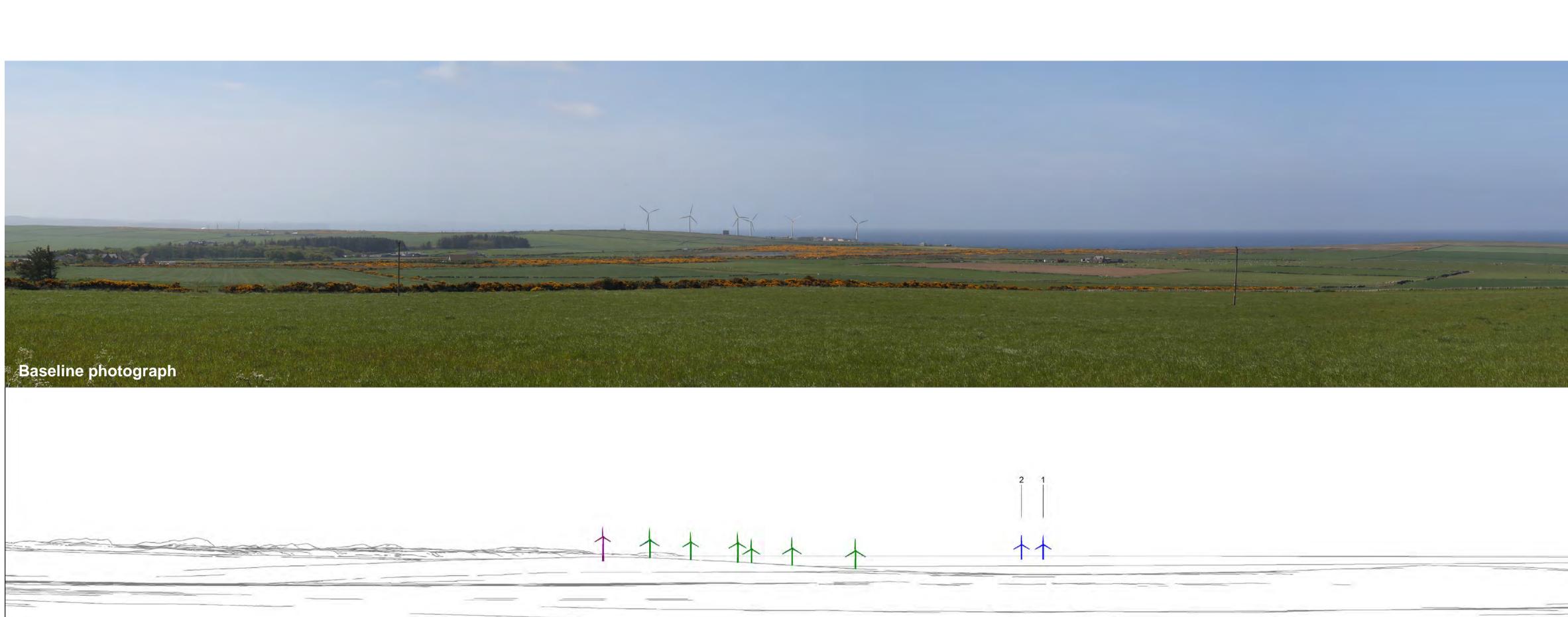
Produced by:



Grid Reference Viewpoint Height Direction of View Distance to Turbine

319120, 998942 135 m AOD 228.26° 32,014 m





Viewpoint 11: A836 east of Forss

Produced by:



Grid Reference Viewpoint Height Direction of View Distance to Turbine 305566, 969343 67 m AOD 288.26° 10,939 m

Be the second of the second of

This image provides landscape and visual context only





Viewpoint 11: A836 east of Forss

Produced by:



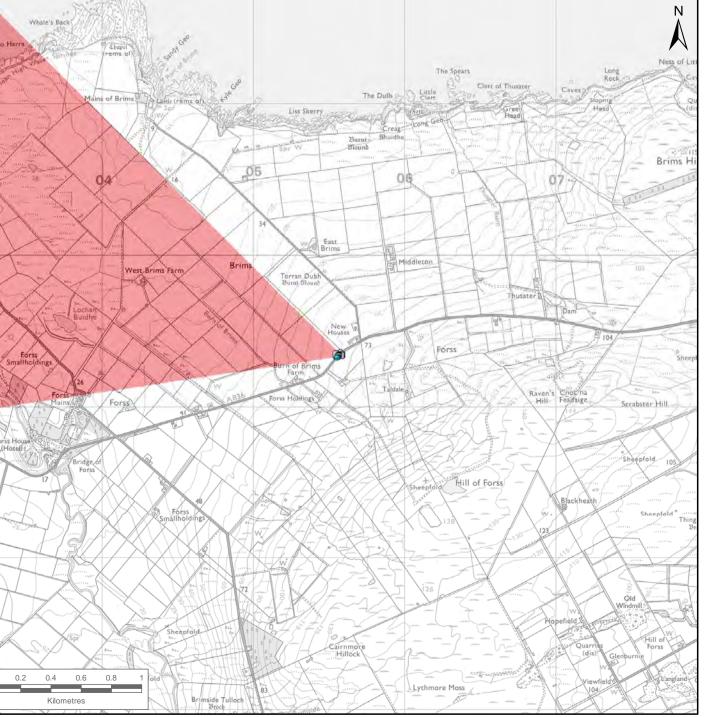
Grid Reference Viewpoint Height Direction of View Distance to Turbine

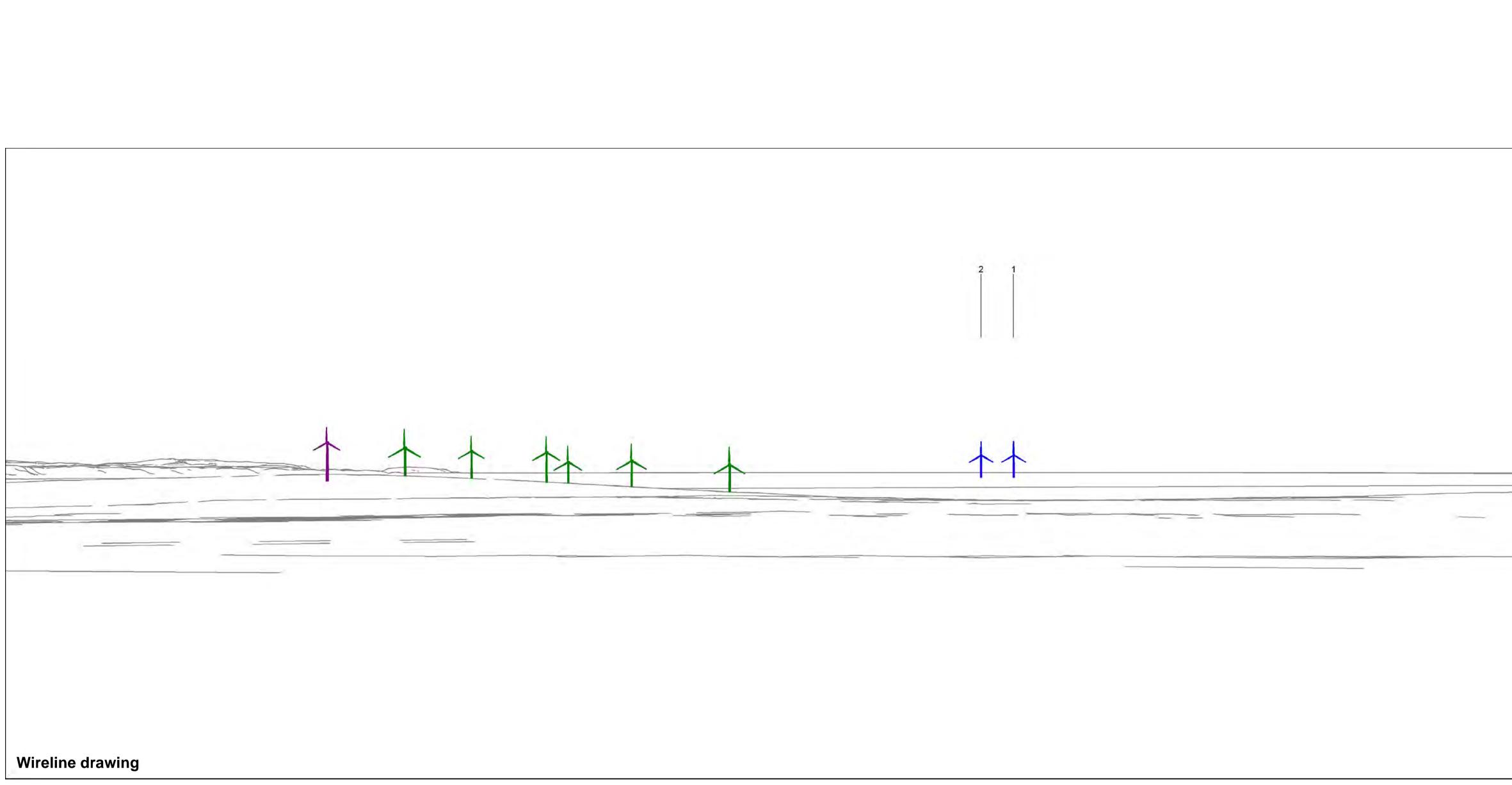
305566, 969343 67 m AOD 288.26° 10,939 m

Horizontal Field of View 53.5° planar projection Principal Distance 813 mm

Camera Lens Camera Height Date and Time

Canon EOS 5D Mark III Canon EF 50 mm 1:14 1.5 m AGL 04/06/2016 13:13





Viewpoint 11: A836 east of Forss

Produced by:



Grid Reference Viewpoint Height Direction of View Distance to Turbine

305566, 969343 67 m AOD 288.26° 10,939 m



Canon EOS 5D Mark III

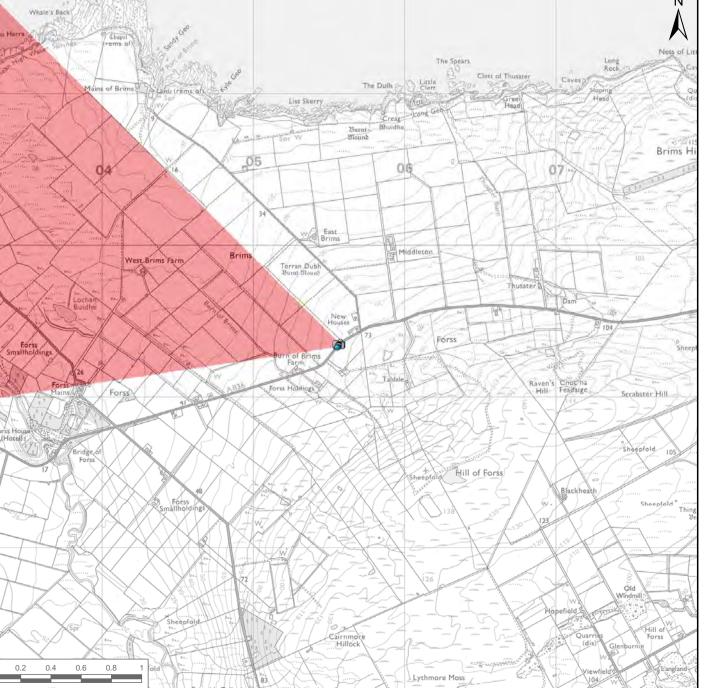
Canon EF 50 mm 1:14

04/06/2016 13:13

1.5 m AGL

Horizontal Field of View 53.5° planar projection Principal Distance 813 mm

Camera Lens Camera Height Date and Time





Viewpoint 12: Strath Halladale

Produced by:



Grid Reference Viewpoint Height Direction of View Distance to Turbine

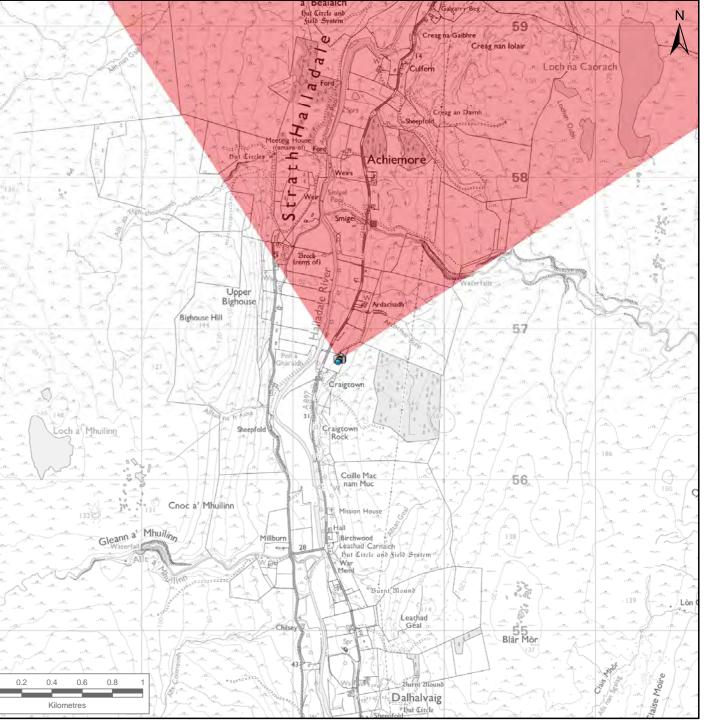
289311, 956797 44 m AOD 12.06° 16,282 m

Horizontal Field of View 90° cylindrical projection Principal Distance

522 mm

Camera Lens Camera Height Date and Time

Canon EOS 5D Mark III Canon EF 50 mm 1:14 1.5 m AGL 04/06/2016 16:29





Viewpoint 12: A897 near Craigtown, Strath Halladale

Produced by:



Grid Reference Viewpoint Height Direction of View Distance to Turbine

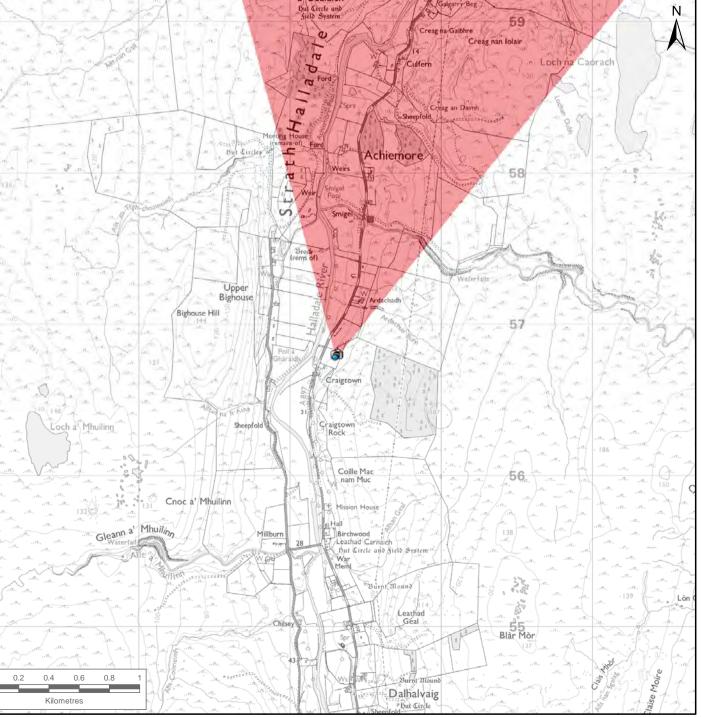
289311, 956797 44 m AOD 12.06° 16,282 m

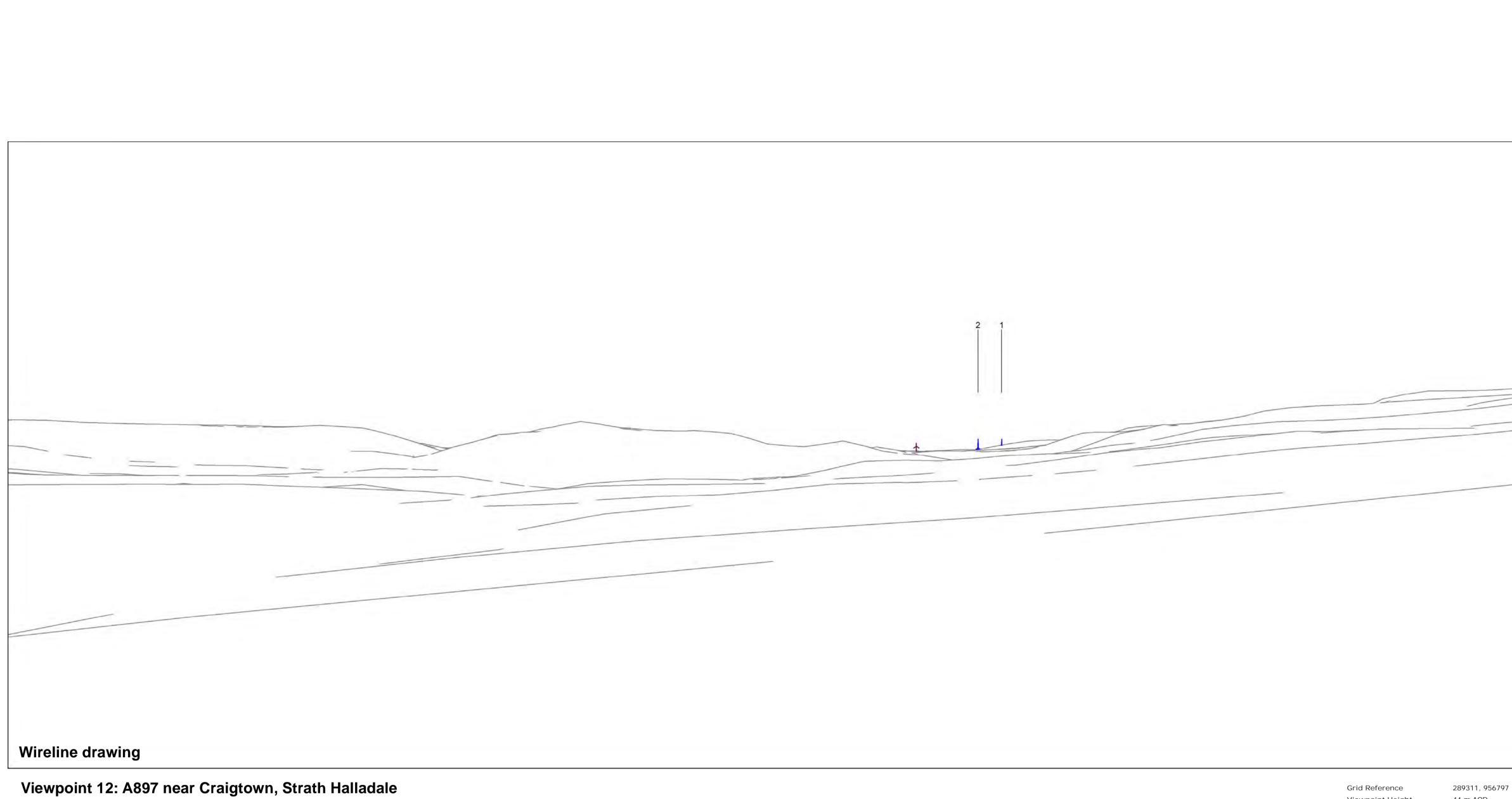
Principal Distance

Horizontal Field of View 53.5° planar projection 813 mm

Camera Lens Camera Height Date and Time

Canon EOS 5D Mark III Canon EF 50 mm 1:14 1.5 m AGL 04/06/2016 16:29





Produced by:



Viewpoint Height Direction of View Distance to Turbine 44 m AOD 12.06° 16,282 m



Canon EOS 5D Mark III

Canon EF 50 mm 1:14

04/06/2016 16:29

1.5 m AGL

Horizontal Field of View 53.5° planar projection Principal Distance

813 mm

Camera Lens Camera Height Date and Time

