



Awel y Môr Offshore Wind Farm

Category 6: Environmental Statement

**Volume 6, Annex 10.4: SLVIA
Figures - Figure 21a-b (Hub
Height Aviation Lighting ZTV
(MDS A))**

Date: April 2022

Revision: A

Application Reference: 6.6.10.4.34

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



REVISION	DATE	STATUS/ REASON FOR ISSUE	AUTHOR:	CHECKED BY:	APPROVED BY:
A	April 2022	ES	OPEN	SLR/GoBe	RWE

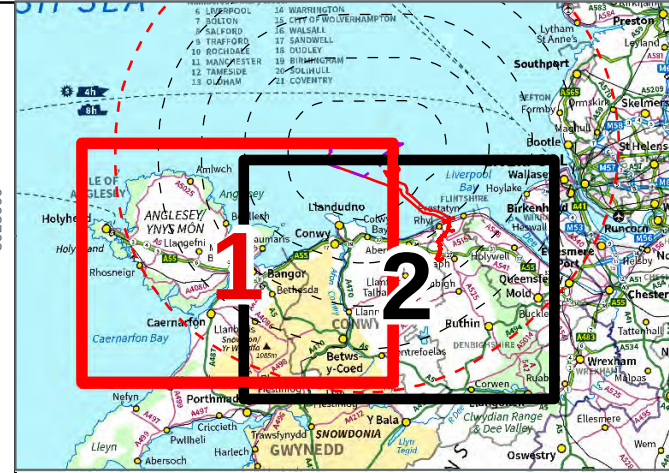
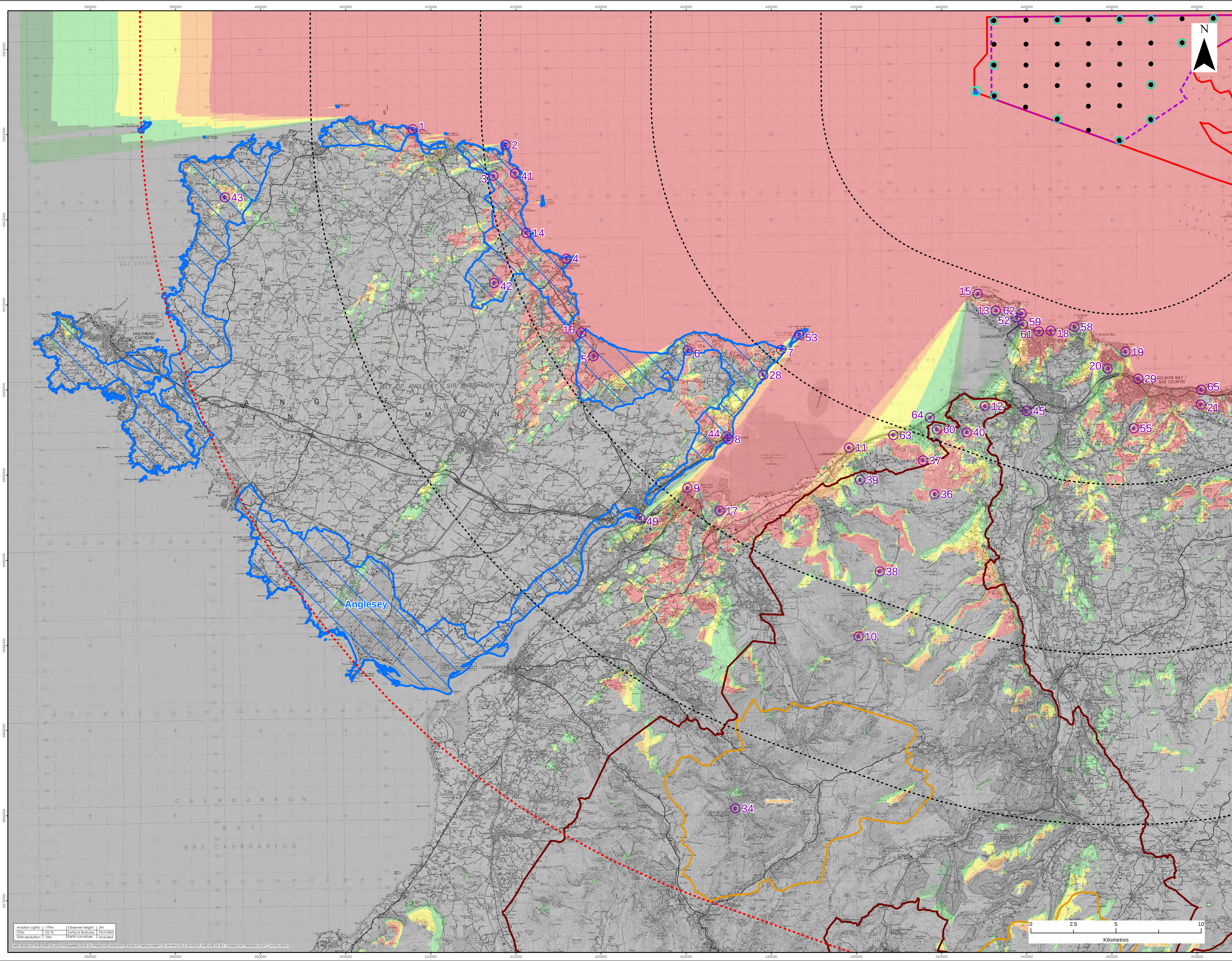
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- LEGEND
- Order Limits
 - Array Area
 - 10km Radii
 - 50km Study Area

- Wind Turbine Generators (indicative locations)
- Civil Aviation perimeter lighting (flashing/steady red, 2000/200 candela)
- Marine navigation isolated structure lighting of met mast (flashing white, 10Nm nominal range)
- Viewpoint Location
- Snowdonia National Park
- Snowdonia National Park Core Zone
- Area of Outstanding Natural Beauty

ZTV (turbine hub height & met mast) assumed to be lit with aviation lights

- No. of aviation lights theoretically
- 1 - 4
 - 5 - 8
 - 9 - 12
 - 13 - 16
 - 17 - 20

- Viewpoints
1. Bull Bay near Amlwch - Wales Coast Path
 2. Point Lynas - PROW to north of lighthouse
 3. Mynydd Eilon - near trig point
 4. Moelfre Headland at sculpture
 5. Red Wharf Bay
 6. Bwrdd Arthur - north of trig point
 7. Penmon Point - north-east of parking
 8. Beaumaris - Wales Coast Path
 9. Bangor Pier (Southern End)
 10. Carnedd Llewelyn
 11. Llanfairfechan
 12. Conwy Mountain
 13. Great Orme - near summit complex
 14. Wales Coast Path near Penrhyon (Traeth yr Ora)
 15. Great Orme - Café
 16. Bontleach Bay View Road
 17. Penrhyon Castle terrace
 18. Llandudno paddling pool
 19. Rhos-on-Sea
 20. Bryn Eryrn
 21. Mynydd Marian
 22. Trwyn y Penrhyon parking layby
 23. Colwyn Bay promenade
 24. Snowdon summit
 25. Tal y Fan
 26. Cefn Coch Stone Circle
 27. Foel Fras
 28. North Wales Path at Garsg Fawr
 29. Above Capelula - North Wales Path
 30. Wales Coast Path north-east of Rhôs-mynach-fawr
 31. Mynydd Bodafon - Trig Point
 32. Mynydd y Garn
 33. Beaumaris Castle
 34. Conwy Castle - Chapel Tower
 35. Menai Suspension Bridge
 36. Pen-y-Dinas Camp at interpretation sign
 37. Puffin Island
 38. Footpath above Cilgwyn Mawr
 39. Little Orme at Trig Point
 40. Llandudno promenade - lifeboat slipway
 41. Foel Lus
 42. Llandudno Promenade near Venue Cymru
 43. Great Orme - Marine Drive, Wales Coast Path near Tall Booth
 44. A55 at Penmaenmawr
 45. A55 at Puffin Roundabout, Dwygyfylch
 46. A55 at jetty north of Penmaen Rhôs

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PROJECT TITLE:
AWEL Y MÔR OFFSHORE WINDFARM

FIGURE TITLE:
**Hub Height Aviation Lighting
ZTV (MDS A) - Western area**

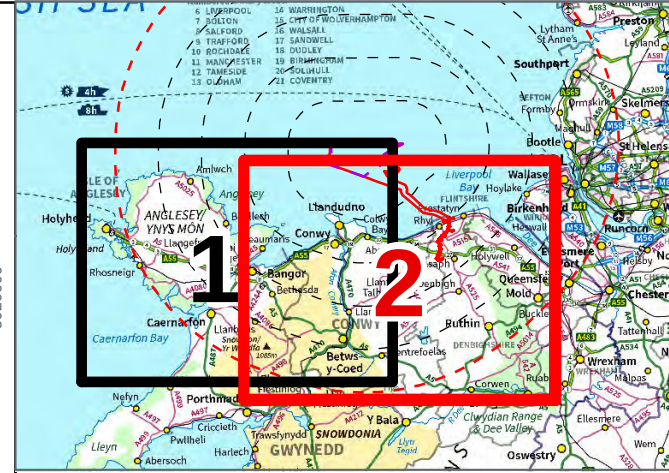
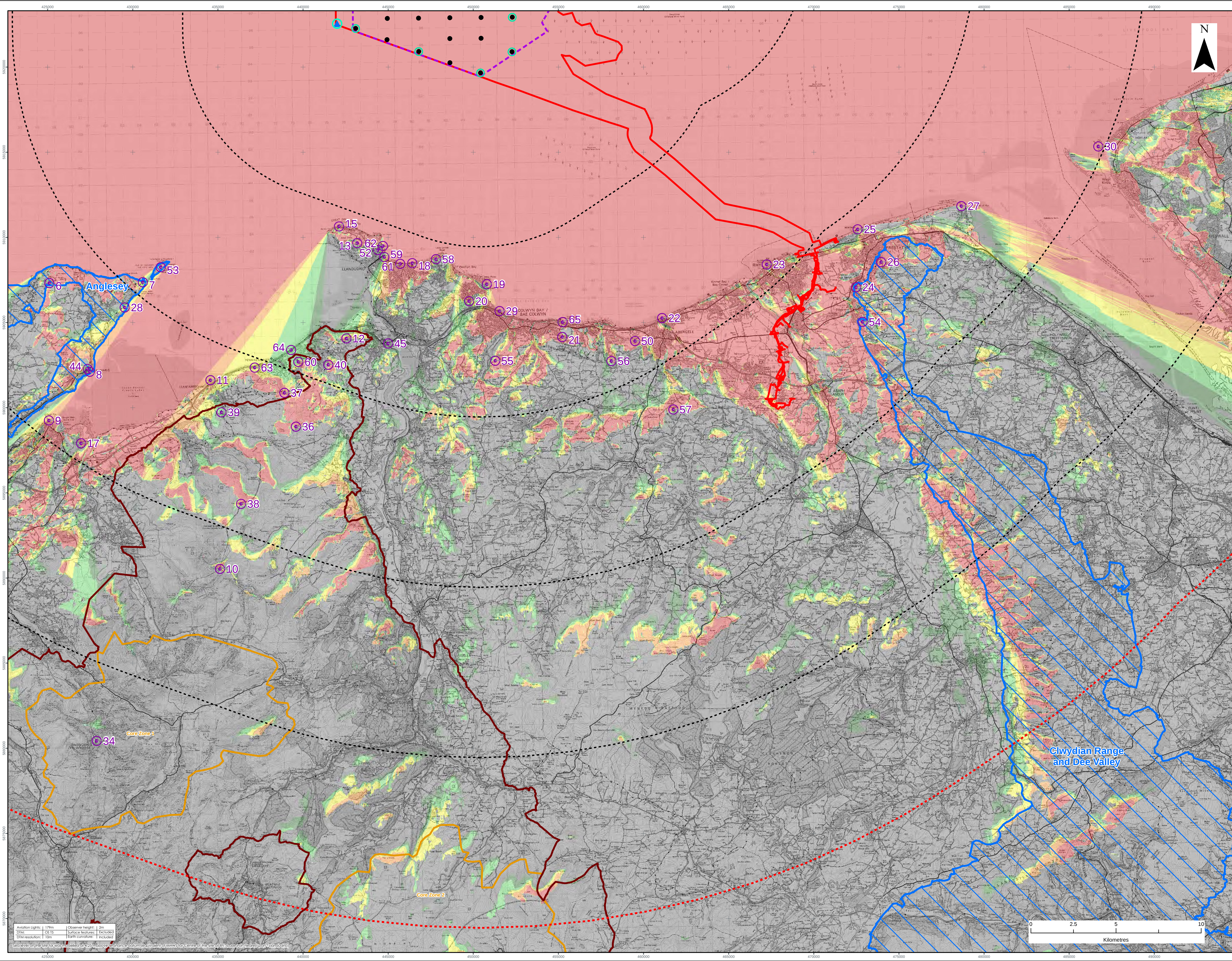
VER	DATE	REMARKS	Drawn	Checked
1	08/03/2022	For Issue	JM	LT

FIGURE NUMBER:
Figure 21a

SCALE: 1:100,000
PROJ: A1
DATUM: WGS84
PROJECTION: UTM30N



Aviation Lights: 179m
Observer height: 3m
Dist: 2.515
DTM resolution: 10m
Earth curvature: 1 included
Sea level on the site for was modeled at 12.25 massive Ordnance datum (equivalent of MHWS for centre of the site at 8.1 based on nearest port - Llandudno)



- LEGEND
- Order Limits
 - Array Area
 - 10km Radii
 - 50km Study Area

- Wind Turbine Generators (indicative locations)
- Civil Aviation perimeter lighting (flashing/steady red, 2000/200 candela)
- Marine navigation isolated structure lighting of met mast (flashing white, 10Nm nominal range)
- Viewpoint Location
- Snowdonia National Park
- Snowdonia National Park Core Zone
- Area of Outstanding Natural Beauty

ZTV (turbine hub height & met mast) assumed to be lit with aviation lights

No. of aviation lights theoretically

- 1 - 4
- 5 - 8
- 9 - 12
- 13 - 16
- 17 - 20

- Viewpoints
- 6. Bwrdd Arthur - north of trig point
 - 7. Penmon Point - north-east of parking
 - 8. Beaumaris - Wales Coast Path
 - 9. Bangor Pier (Southern End)
 - 10. Carnedd Llewelyn
 - 11. Llanfairfechan
 - 12. Conwy Mountain
 - 13. Great Orme - near summit complex
 - 15. Great Orme - Café
 - 17. Penrhyn Castle terrace
 - 18. Llandudno paddling pool
 - 19. Rhas-on-Sea
 - 20. Bryn Eryn
 - 21. Wynydd Marian
 - 22. Abergele promenade
 - 23. Rhyi Aquarium
 - 24. Great Cow
 - 25. Prestatyn Nova Centre
 - 26. Bryn-llyn Viewpoint (Prestatyn Hillside viewpoint, Gwaenysgar)
 - 27. Point of Ayr
 - 28. Tŷwen y Penrhyn parking layby
 - 29. Colwyn Bay promenade
 - 30. Hilbre Point
 - 34. Snowdon summit
 - 36. Tal y Fan
 - 37. Cefn Coch Stone Circle
 - 38. Foel Fras
 - 39. North Wales Path of Gwag Fawr
 - 40. Above Capelulo - North Wales Path
 - 44. Beaumaris Castle
 - 45. Conwy Castle - Chapel Tower
 - 50. Gwynedd Castle - Terrace
 - 52. Pen-y-Dinas Camp at interpretation sign
 - 53. Puffin Island
 - 54. y Foel (Common land and hill east of Dyserth)
 - 55. Footpath above Clwydian Mawr
 - 56. Pen-y-corddyn-mawr
 - 57. Moelfre Isaf
 - 58. Little Orme at Trig Point
 - 59. Llandudno promenade - lifeboat slipway
 - 60. Foel Lus
 - 61. Llandudno Promenade near Venue Cymru
 - 62. Great Orme - Marine Drive, Wales Coast Path near Toll Booth
 - 63. A55 at Penmaenmawr
 - 64. A55 at Puffin Roundabout, Dwygyfylch
 - 65. A55 at jetty north of Penmaen Rhôs

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PROJECT TITLE:
AWEL Y MÔR OFFSHORE WINDFARM

FIGURE TITLE:
**Hub Height Aviation Lighting
ZTV (MDS A) - Central area**

VER	DATE	REMARKS	Drawn	Checked
1	08/03/2022	For Issue	JM	LT

FIGURE NUMBER:
Figure 21b

SCALE: 1:100,000
PROF: A1
DATA: WGS84
PROJECTION: UTM30N

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