



Gatwick Airport Northern Runway Project

Consultation Report Appendices – Part B – Volume 9

Book 6

VERSION: 1.0

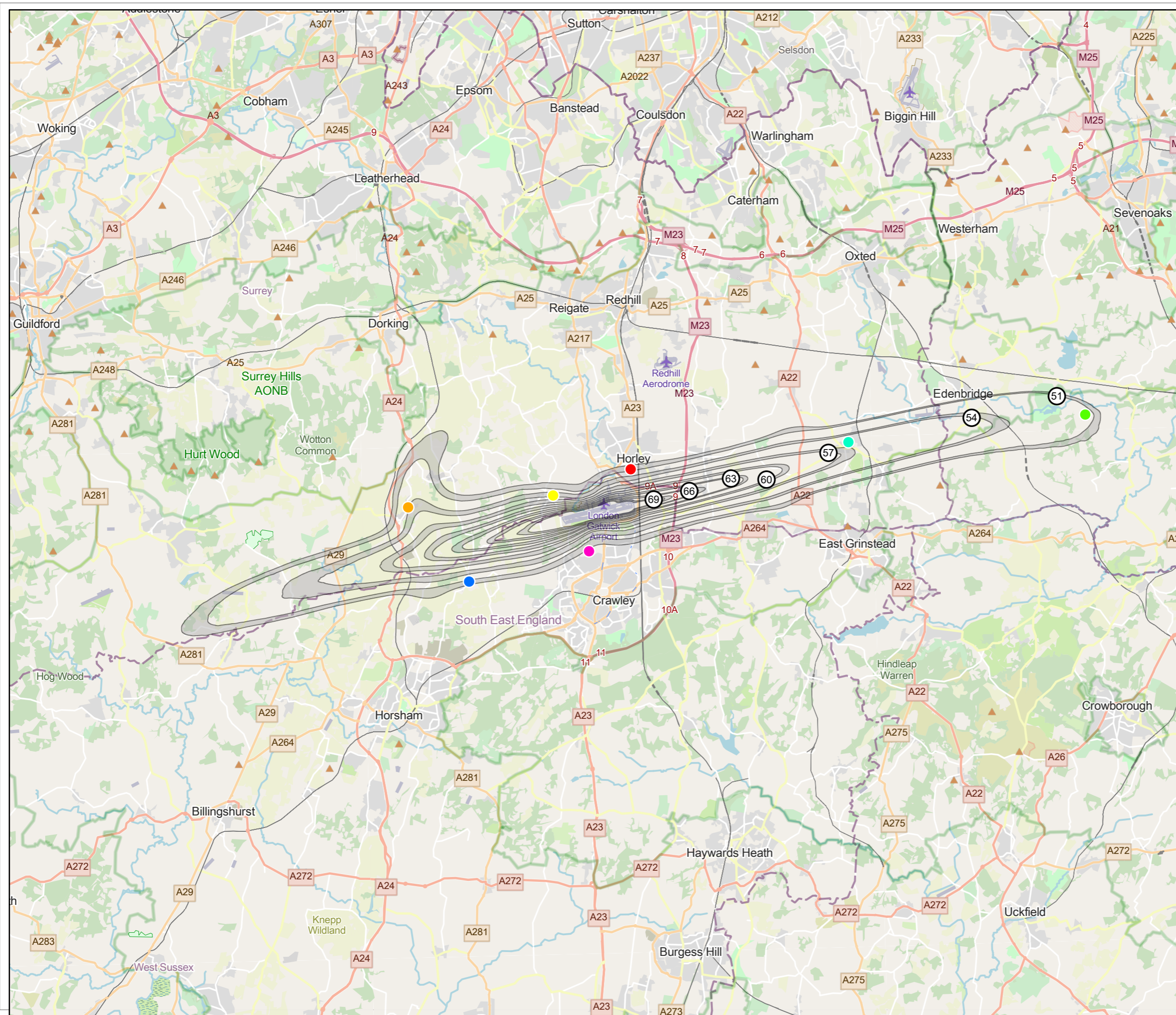
DATE: JULY 2023

Application Document Ref: 6.2

PINS Reference Number: TR020005

Contents – Part B – Volume 9

Appendix B.16 PEIR Figures 14.9.1 – 14.9.42



KEY
Community Representative Locations

- Barnfield Care Home
- Capel Pre-School
- Charlwood Infant School
- Chiddingstone C of E School
- Lingfield Primary School
- Rusper Primary School
- Willow Tree Pre-School
- Central Case and Slower Transition Fleet Case Range

DOCUMENT

PEIR

DRAWING TITLE

2032 Air Noise with Project, Leq 16 hr
and Community Representative Locations

DATE

September 2021

ORIENTATION



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14.9.1

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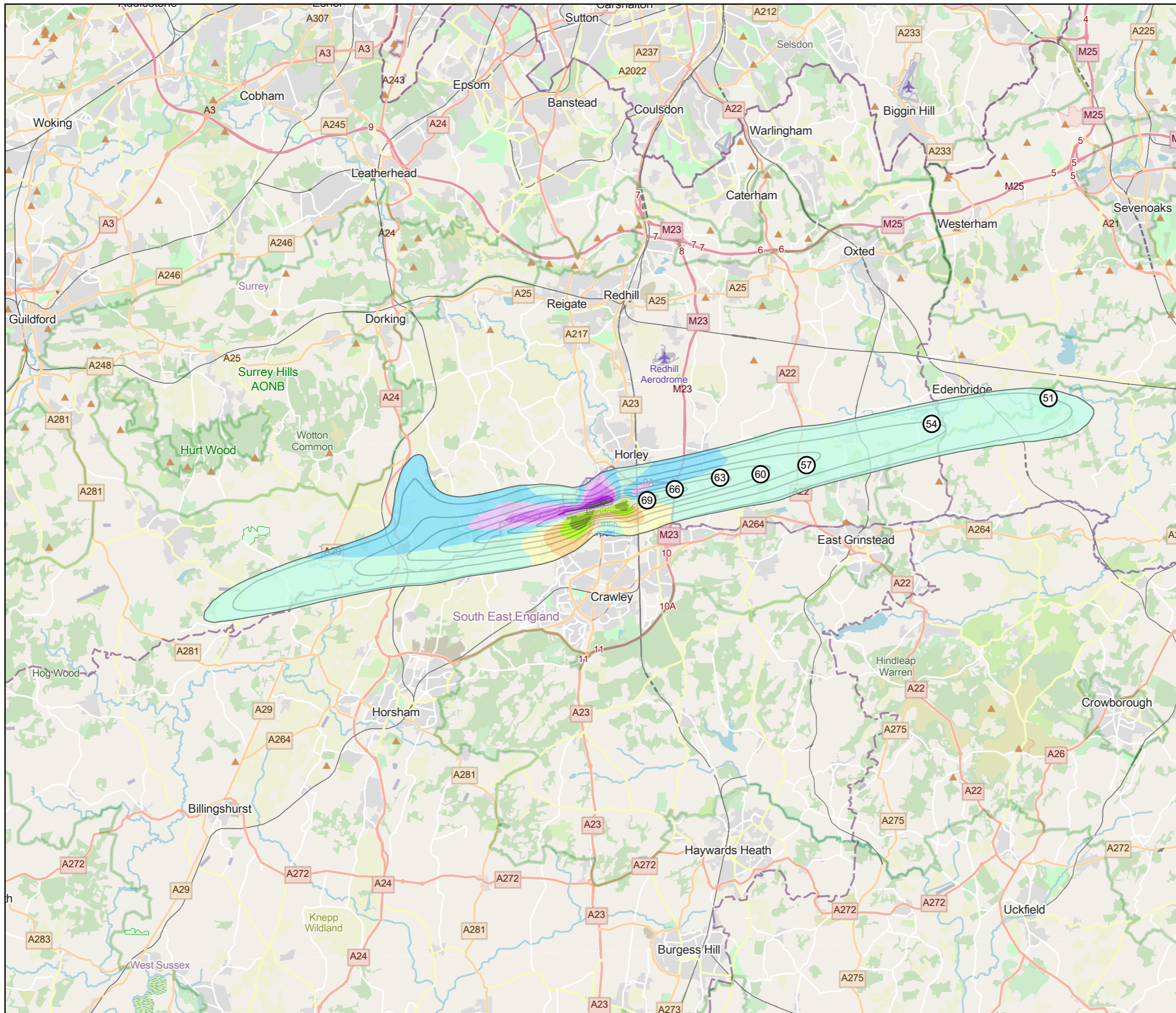
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Spatial Reference:
Name: British National Grid
Datum: GCSG 1936
Projection: Transverse Mercator



KEY

- 6 to -3 dB decrease
- 3 to -2 dB decrease
- 2 to -1 dB decrease
- 1 to 0 dB decrease
- 0 to +1 dB increase
- +1 to +2 dB increase
- +2 to +3 dB increase
- +3 to +6 dB increase
- +6 to +9 dB increase
- > +9 dB increase

DOCUMENT

PEIR

DRAWING TITLE

2032 Air Noise with Project Central Case v
2032 Baseline Difference, L_{eq} 16 hr

DATE

September 2021

ORIENTATION



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14.9.2

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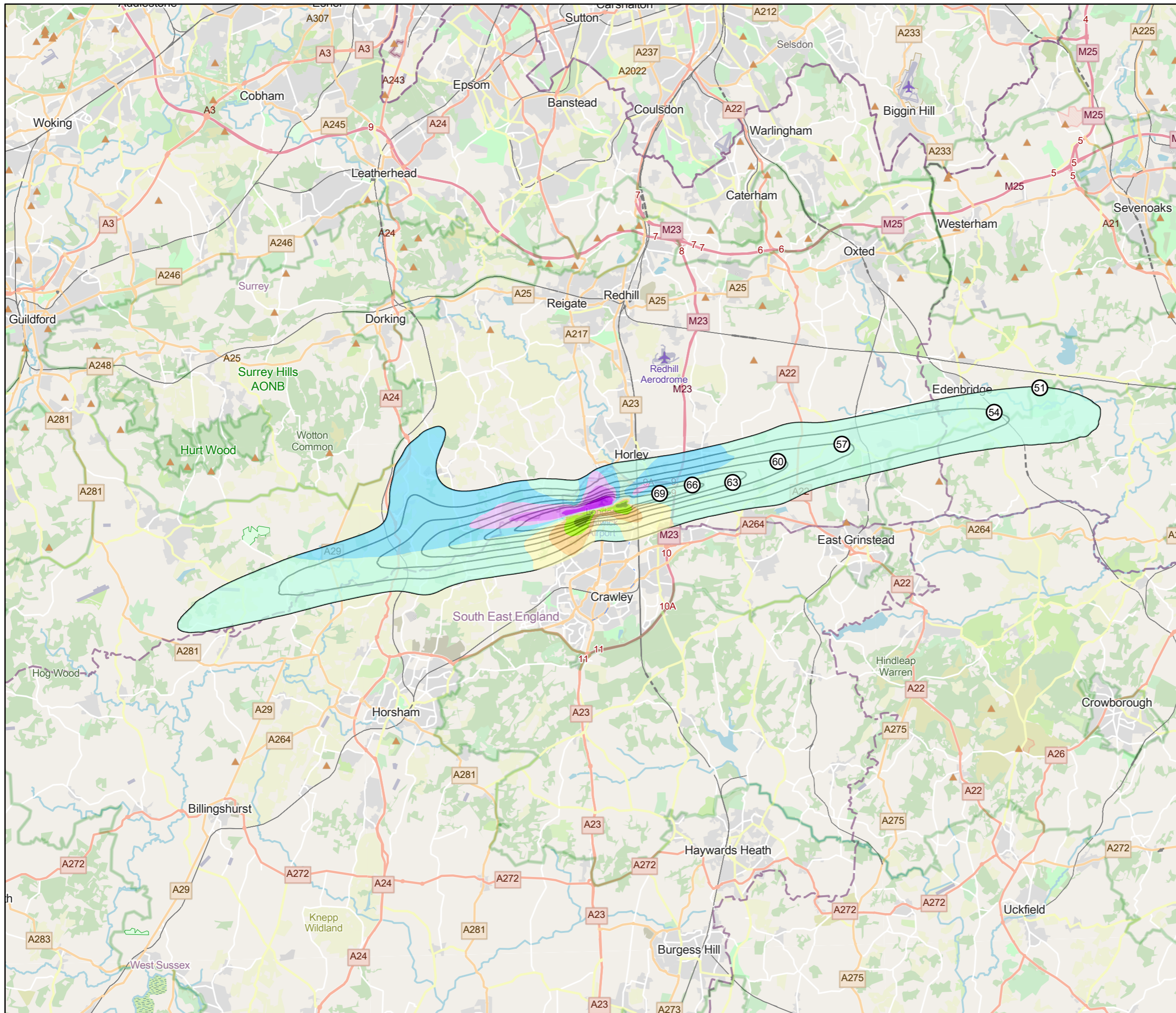
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator

KEY

- 6 to -3 dB decrease
- 3 to -2 dB decrease
- 2 to -1 dB decrease
- 1 to 0 dB decrease
- 0 to +1 dB increase
- +1 to +2 dB increase
- +2 to +3 dB increase
- +3 to +6 dB increase
- > +6 dB increase



DOCUMENT

PEIR

DRAWING TITLE

2032 Air Noise with Project Slower
Transition Case v 2032 Baseline
Difference, $L_{eq} 16 hr$

DATE

September 2021

ORIENTATION



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14.9.3

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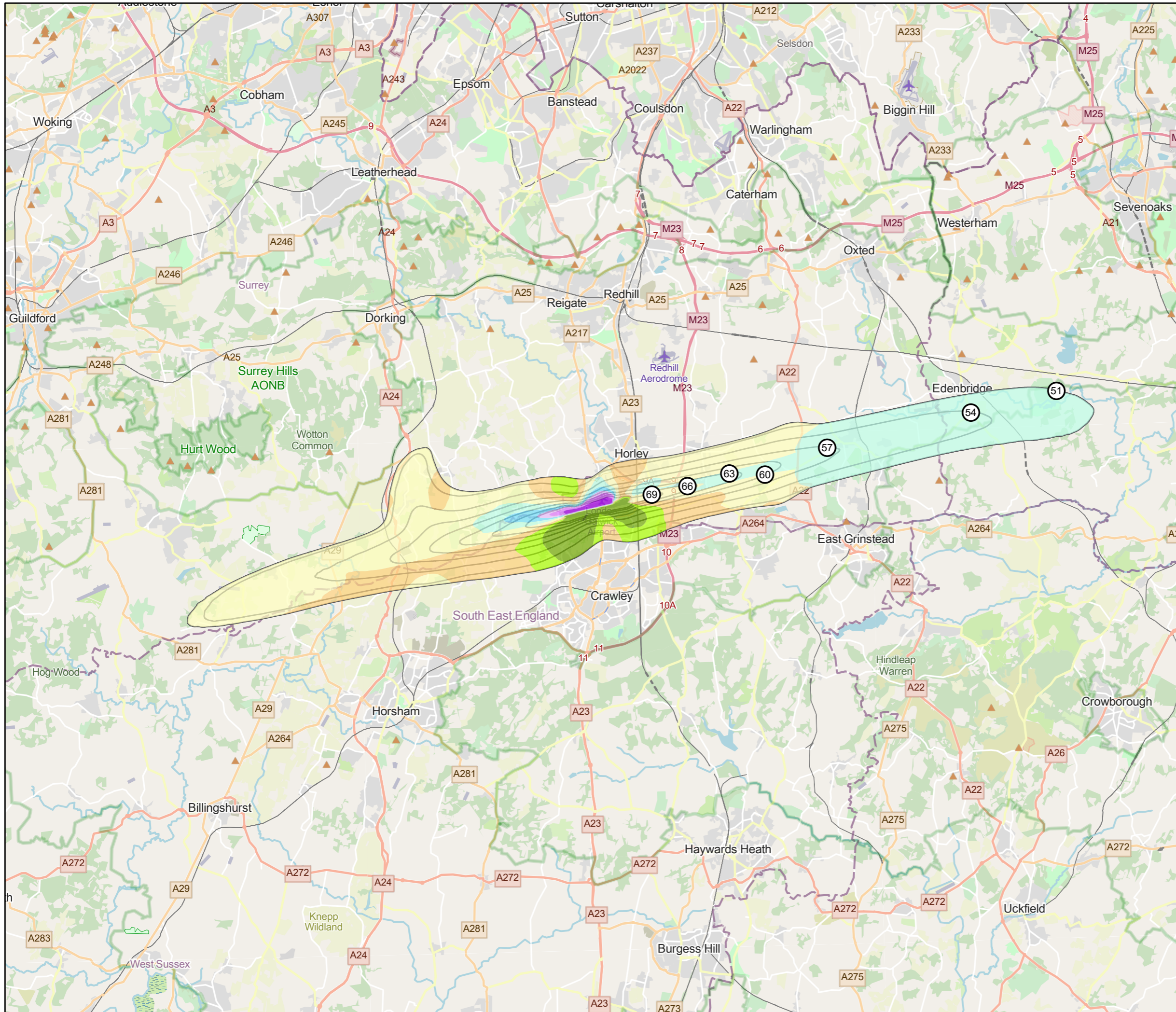
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator



KEY

- < -6 dB decrease
- 6 to -3 dB decrease
- 3 to -2 dB decrease
- 2 to -1 dB decrease
- 1 to 0 dB decrease
- 0 to +1 dB increase
- +1 to +2 dB increase
- +2 to +3 dB increase
- +3 to +6 dB increase
- > +6 dB increase

DOCUMENT

PEIR

DRAWING TITLE

2032 Air Noise with Project v 2019
Baseline Difference, L_{eq} 16 hr

DATE

September 2021

ORIENTATION



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14.9.4

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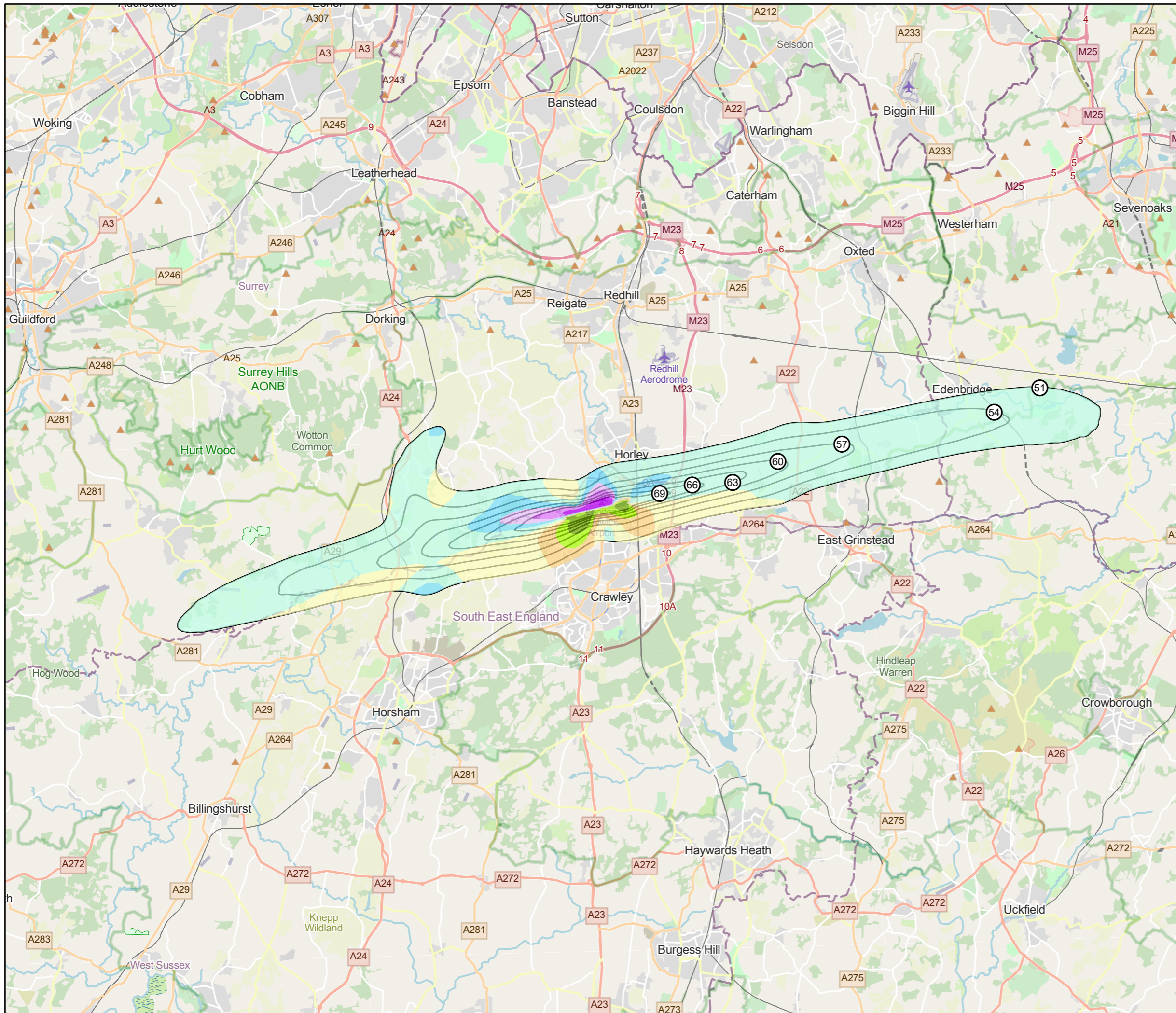
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator

KEY

- 6 to -3 dB decrease
- 3 to -2 dB decrease
- 2 to -1 dB decrease
- 1 to 0 dB decrease
- 0 to +1 dB increase
- +1 to +2 dB increase
- +2 to +3 dB increase
- +3 to +6 dB increase
- > +6 dB increase



DOCUMENT

PEIR

DRAWING TITLE

2032 Air Noise with Project Slower
Transition Case v 2019 Baseline
Difference, L_{eq} 16 hr

DATE

September 2021

ORIENTATION



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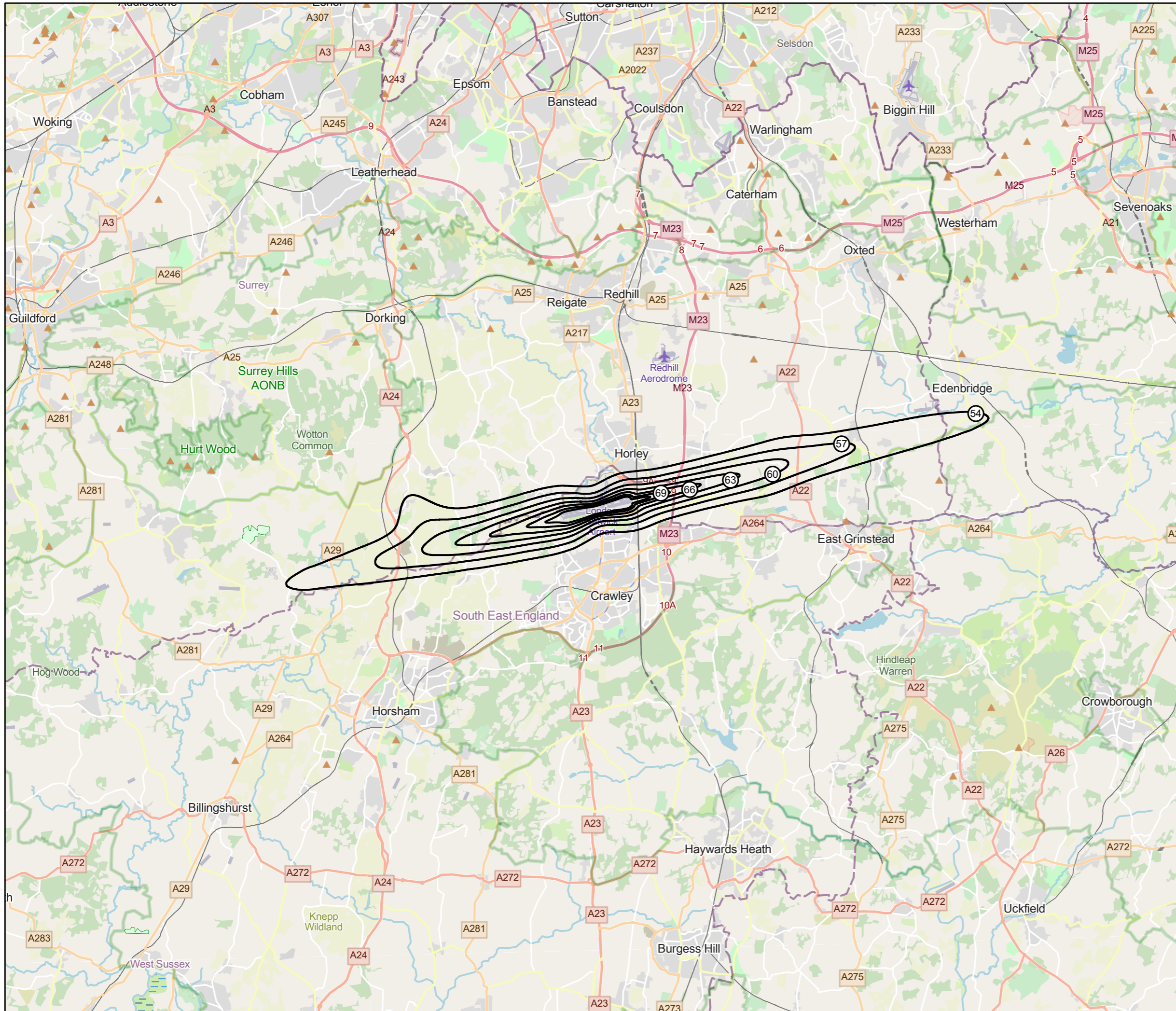
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Datum: OSGB 1936
Projection: Transverse Mercator

KEY



DOCUMENT

PEIR

DRAWING TITLE

2013 Air Noise Baseline L_{eq} 16 hr

DATE

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ORIENTATION



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14.9.6

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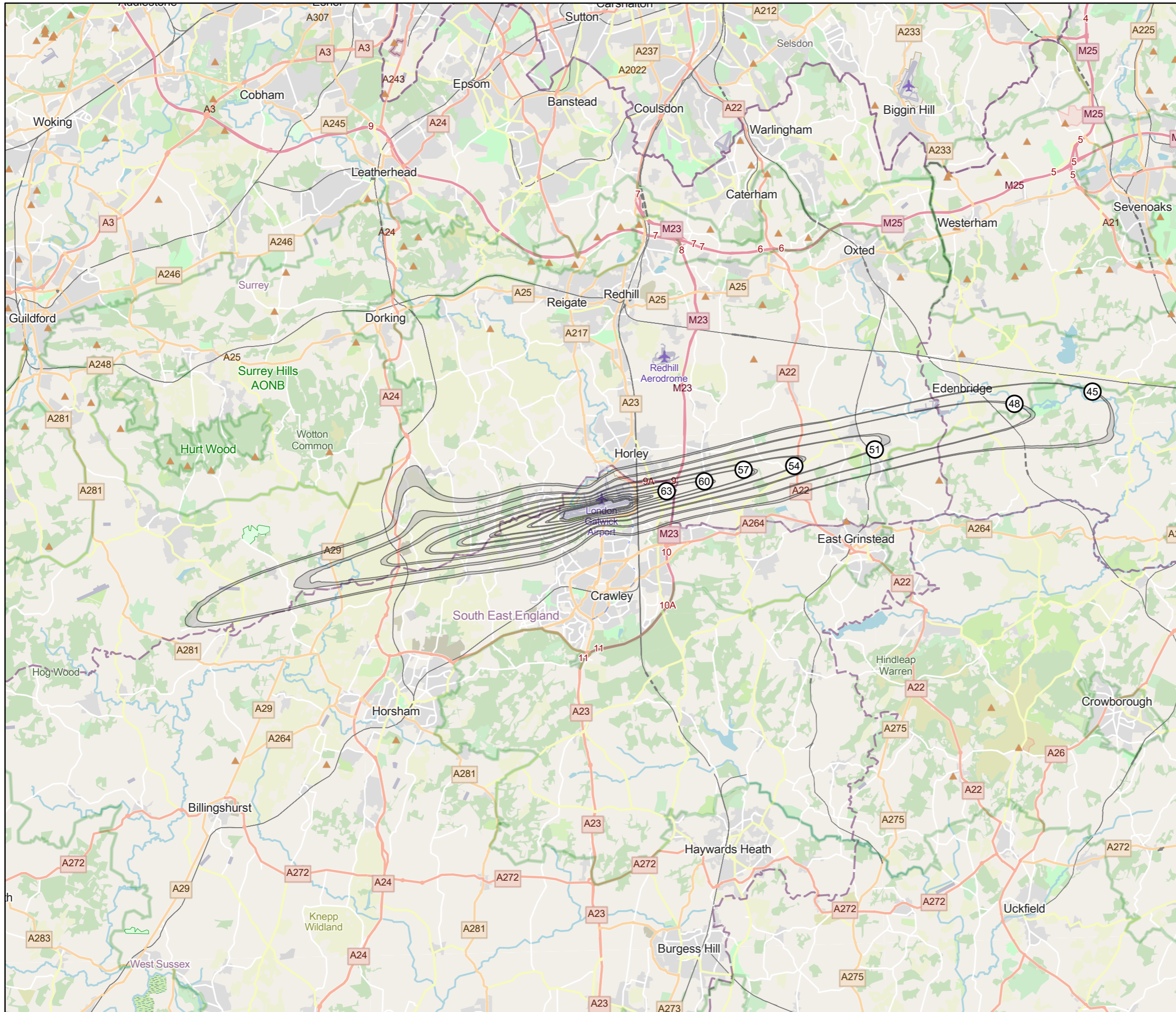
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Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator



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KEY

Central Case and Slower
Transition Fleet Case Range

DOCUMENT

PEIR

DRAWING TITLE

2032 Air Noise with Project, $L_{eq} 8 \text{ hr}$ Night

DATE

September 2021

ORIENTATION



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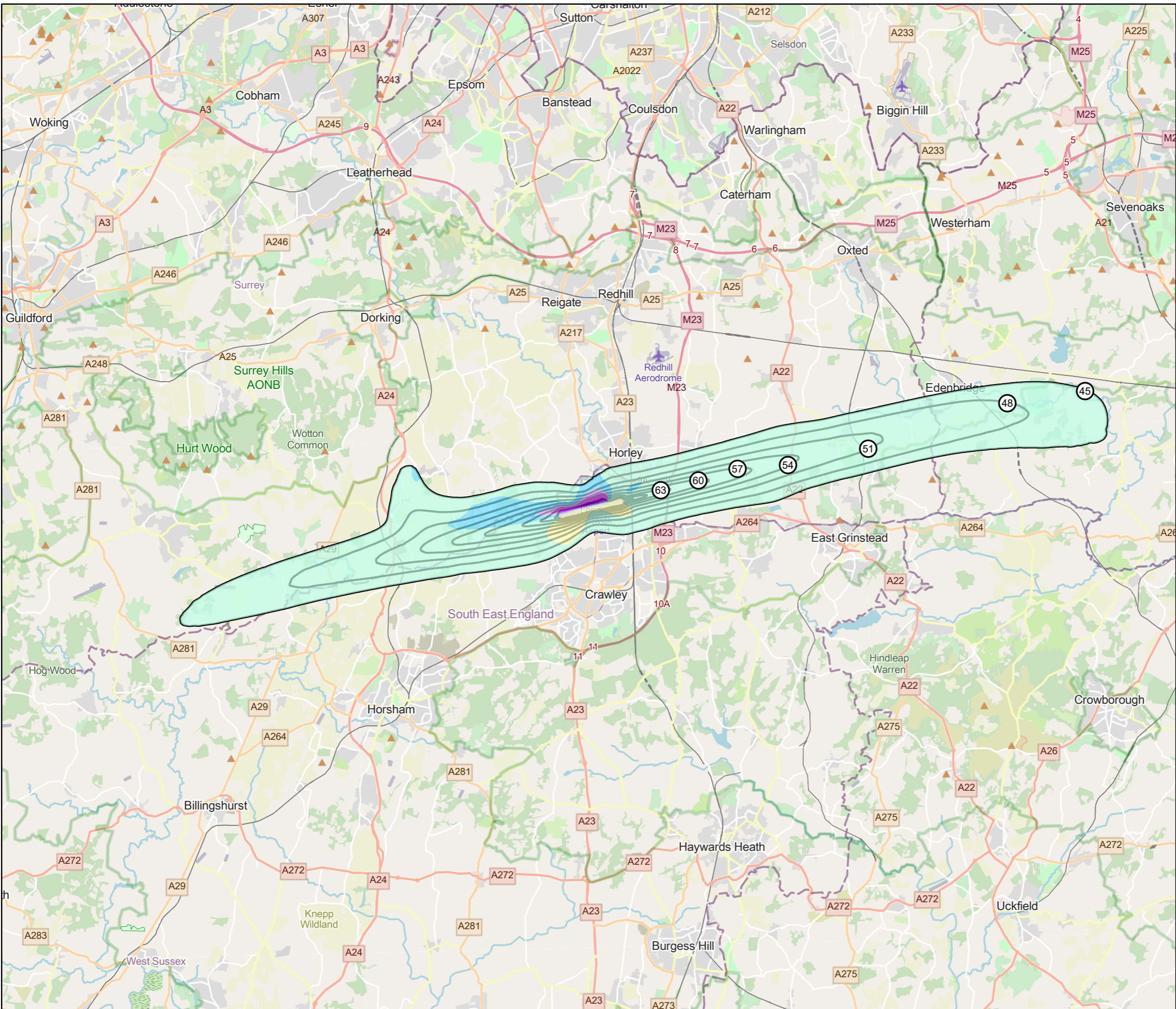
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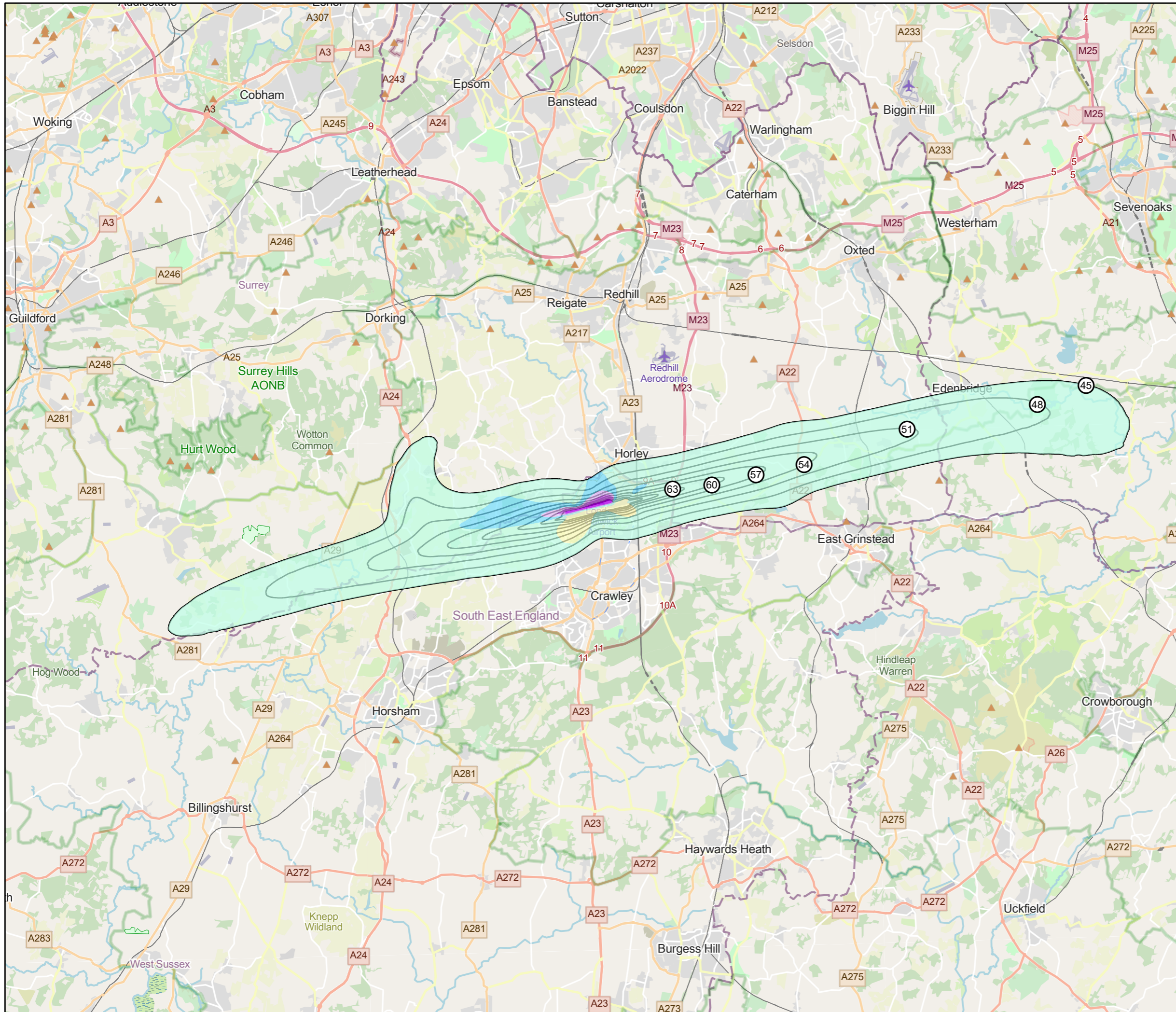
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator





YOUR LONDON AIRPORT
Gatwick

KEY

- 1 to 0 dB decrease
- 0 to +1 dB increase
- +1 to +2 dB increase
- +2 to +3 dB increase
- +3 to +6 dB increase
- > +6 dB increase

DOCUMENT

PEIR

DRAWING TITLE

2032 Air Noise with Project Slower
Transition Case v 2032 Baseline Difference,
Leq 8 hr Night

DATE

September 2021

ORIENTATION



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14.9.9

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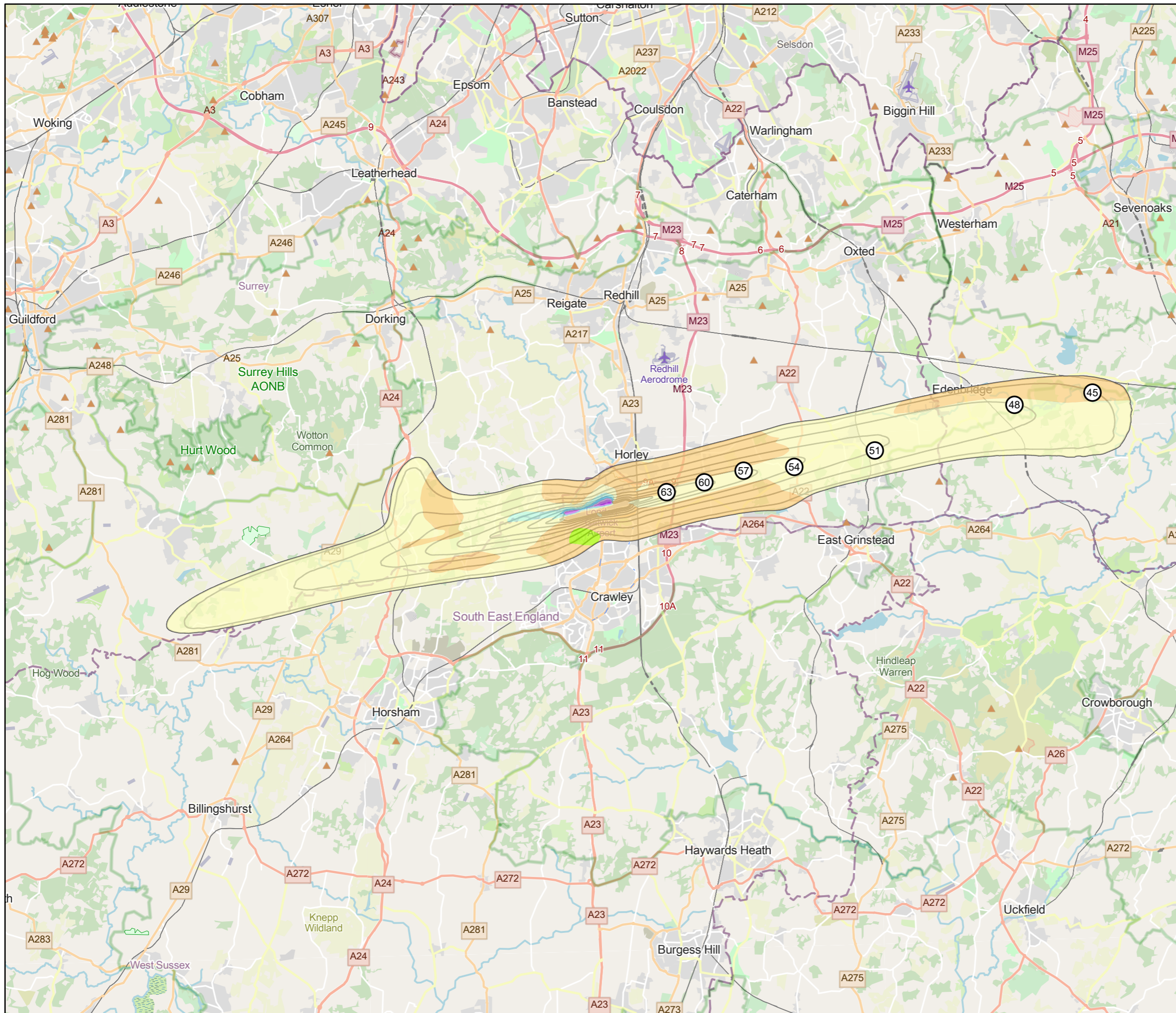
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Spatial Reference
Name: British National Grid
Datum: OSGB 1998
Projection: Transverse Mercator

KEY

- 3 to -2 dB decrease
- 2 to -1 dB decrease
- 1 to 0 dB decrease
- 0 to +1 dB increase
- +1 to +2 dB increase
- +2 to +3 dB increase
- +3 to +6 dB increase
- > +6 dB increase

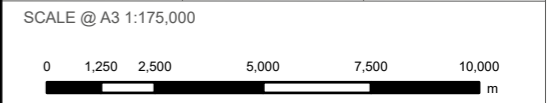


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**2032 Air Noise with Project Central Case v
2019 Baseline Difference, L_{eq} 8 hr Night**

DATE
September 2021

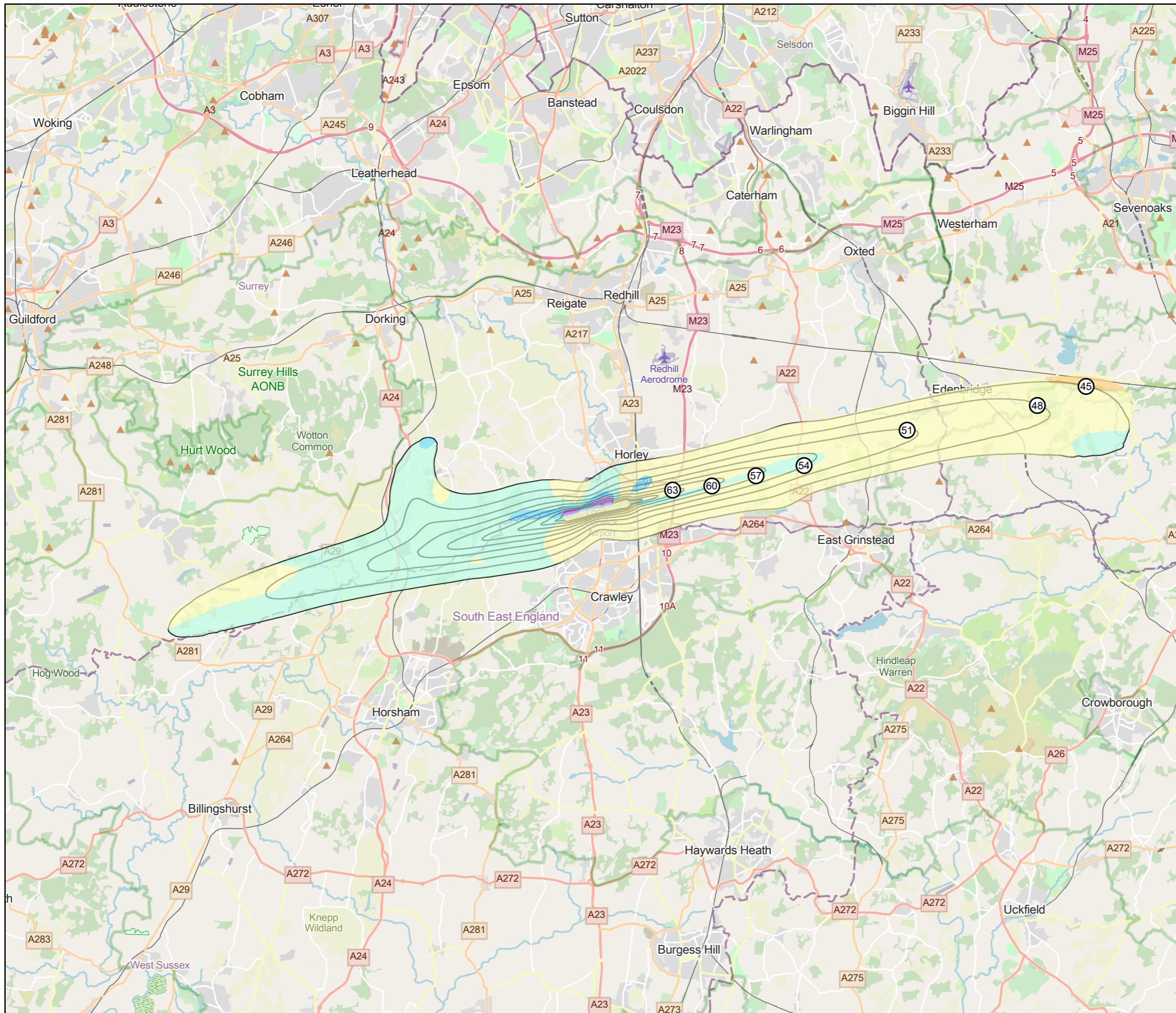
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator

KEY

- 2 to -1 dB decrease
- 1 to 0 dB decrease
- 0 to +1 dB increase
- +1 to +2 dB increase
- +2 to +3 dB increase
- +3 to +6 dB increase



DOCUMENT

PEIR

DRAWING TITLE

2032 Air Noise with Project Slower
Transition Case v 2019 Baseline
Difference, L_{eq} 8 hr Night

DATE

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ORIENTATION



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14.9.11

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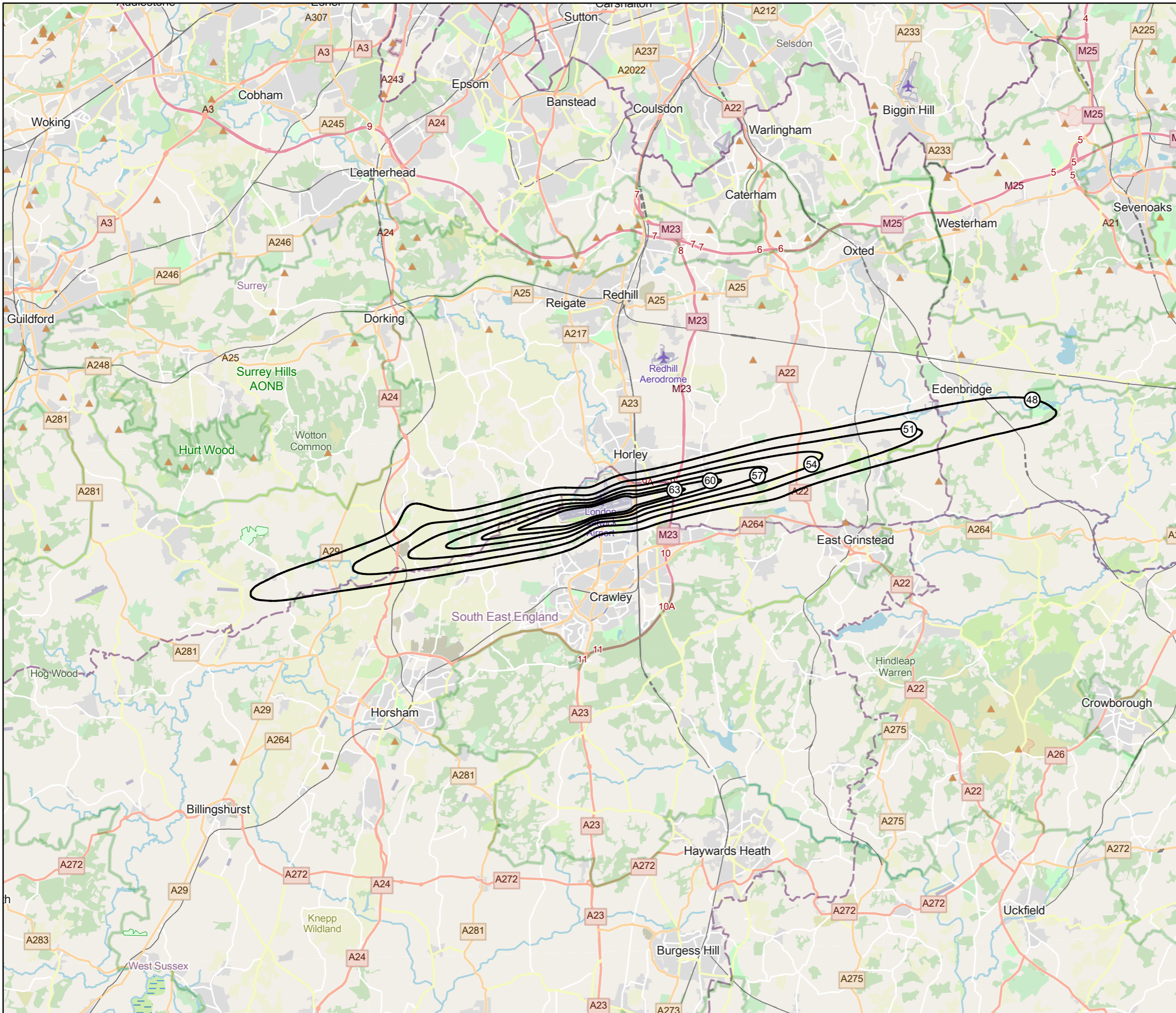
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Datum: OSGB 1936
Projection: Transverse Mercator

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2013 Air Noise Baseline Leq 8 hr Night

DATE

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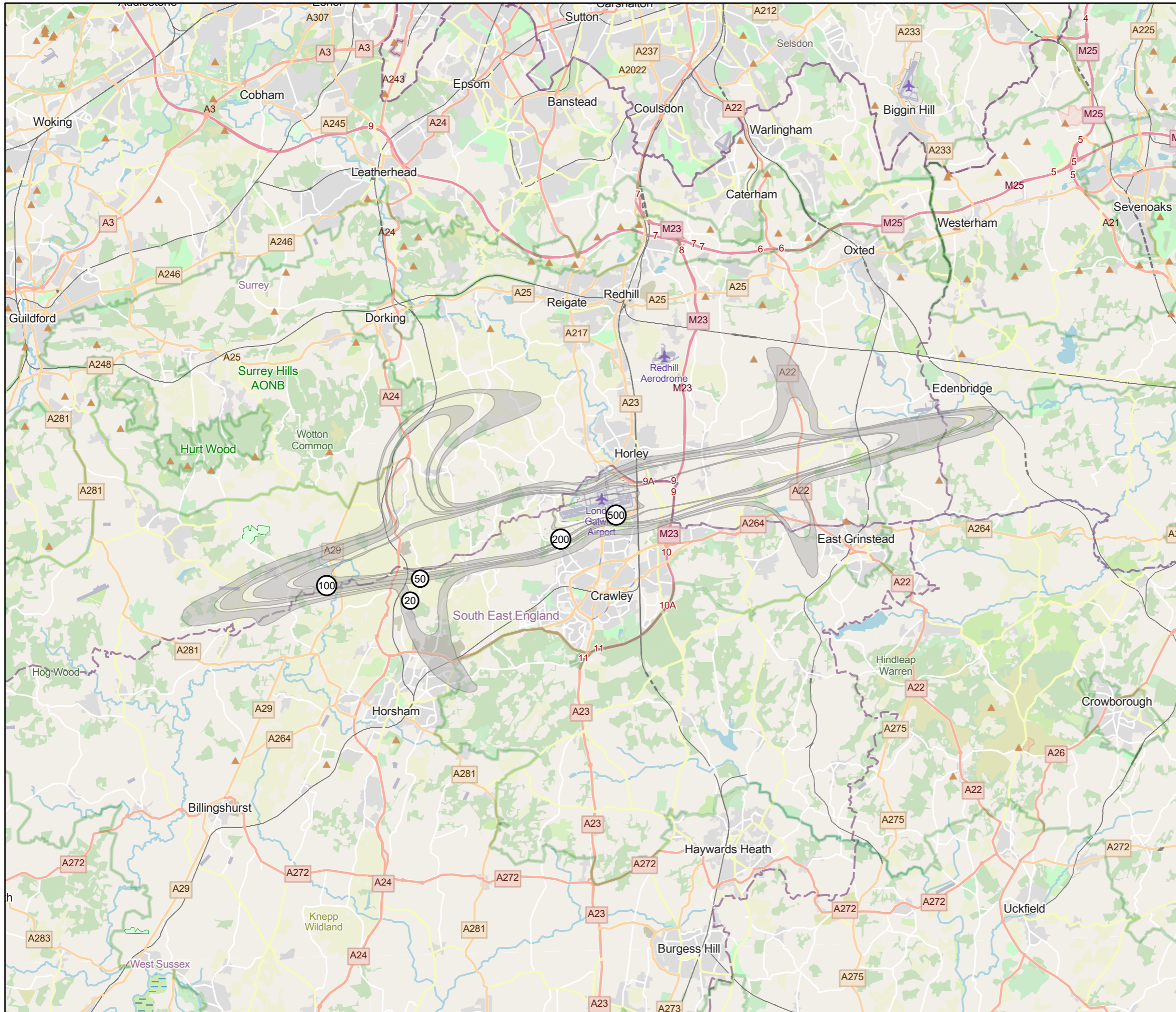
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator



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KEY

Central Case and Slower Transition Fleet Case Range

DOCUMENT

PEIR

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2032 Air Noise with Project N65 Day

DATE

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ORIENTATION



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14.9.13

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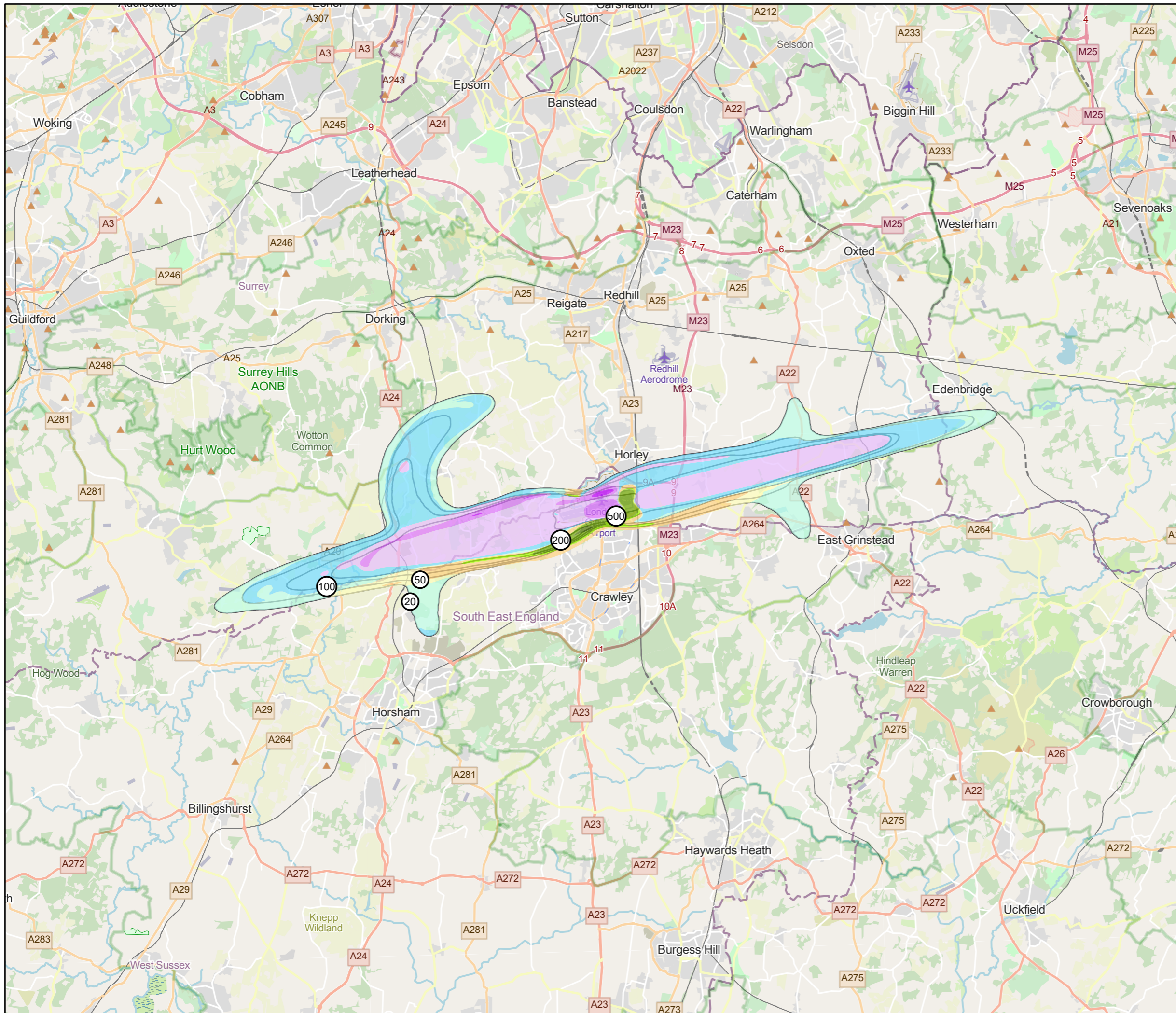
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 Spatial Reference:
 Name: British National Grid
 Datum: GCSG 1936
 Projection: Transverse Mercator

KEY

- 300 to -200 decrease
- 200 to -100 decrease
- 100 to -50 decrease
- 50 to -10 decrease
- 10 to 0 decrease
- 0 to +10 increase
- +10 to +50 increase
- +50 to +100 increase
- +100 to +200 increase
- +200 to +300 increase

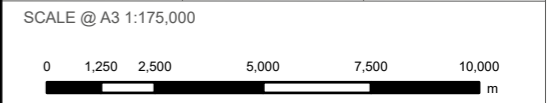


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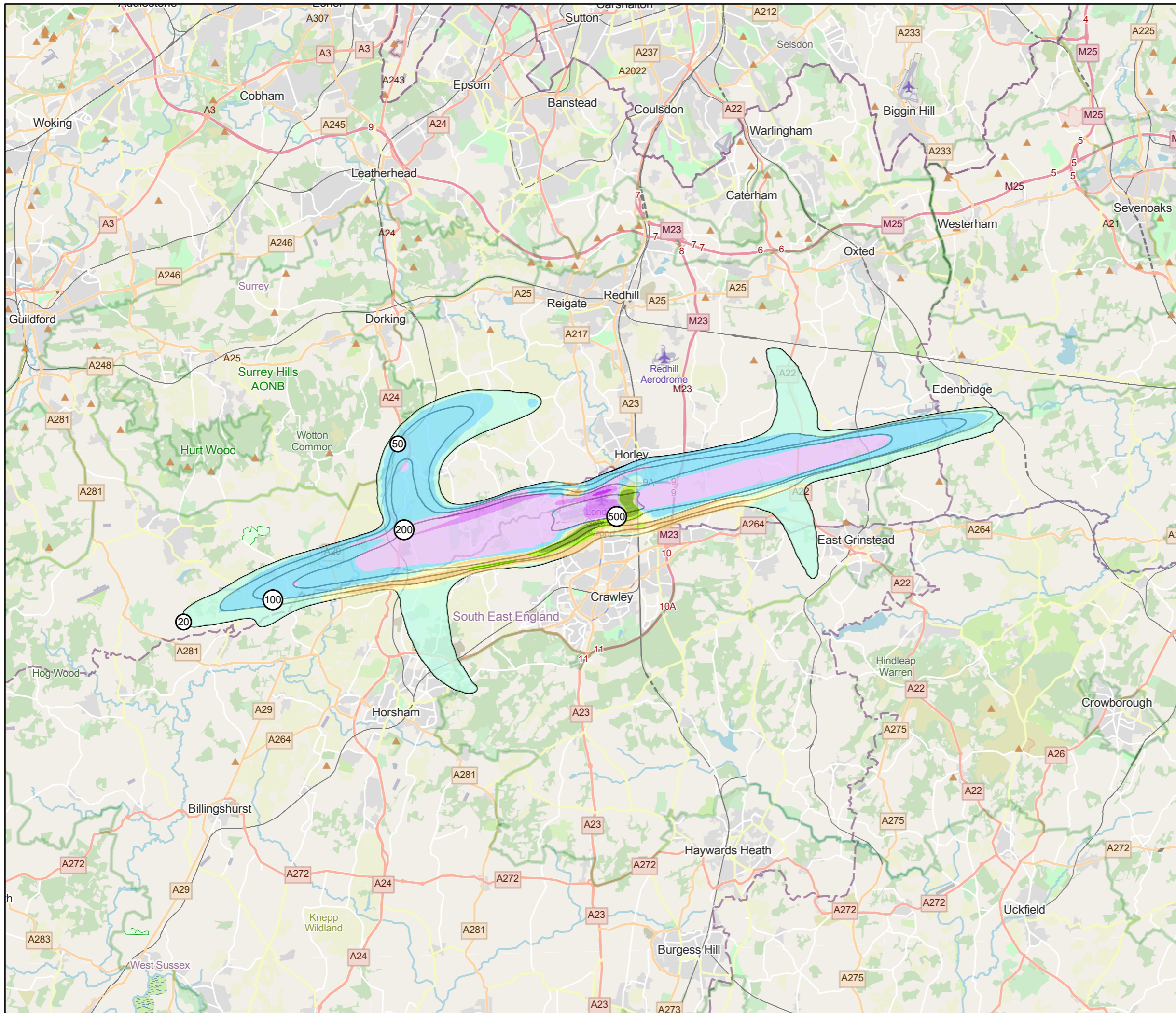
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DATE
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator



KEY

- 300 to -200 decrease
- 200 to -100 decrease
- 100 to -50 decrease
- 50 to -10 decrease
- 10 to 0 decrease
- 0 to +10 increase
- +10 to +50 increase
- +50 to +100 increase
- +100 to +200 increase
- +200 to +300 increase

DOCUMENT

PEIR

DRAWING TITLE

2032 Air Noise with Project Slower
Transition Case v 2032 Baseline
Difference N65 Day

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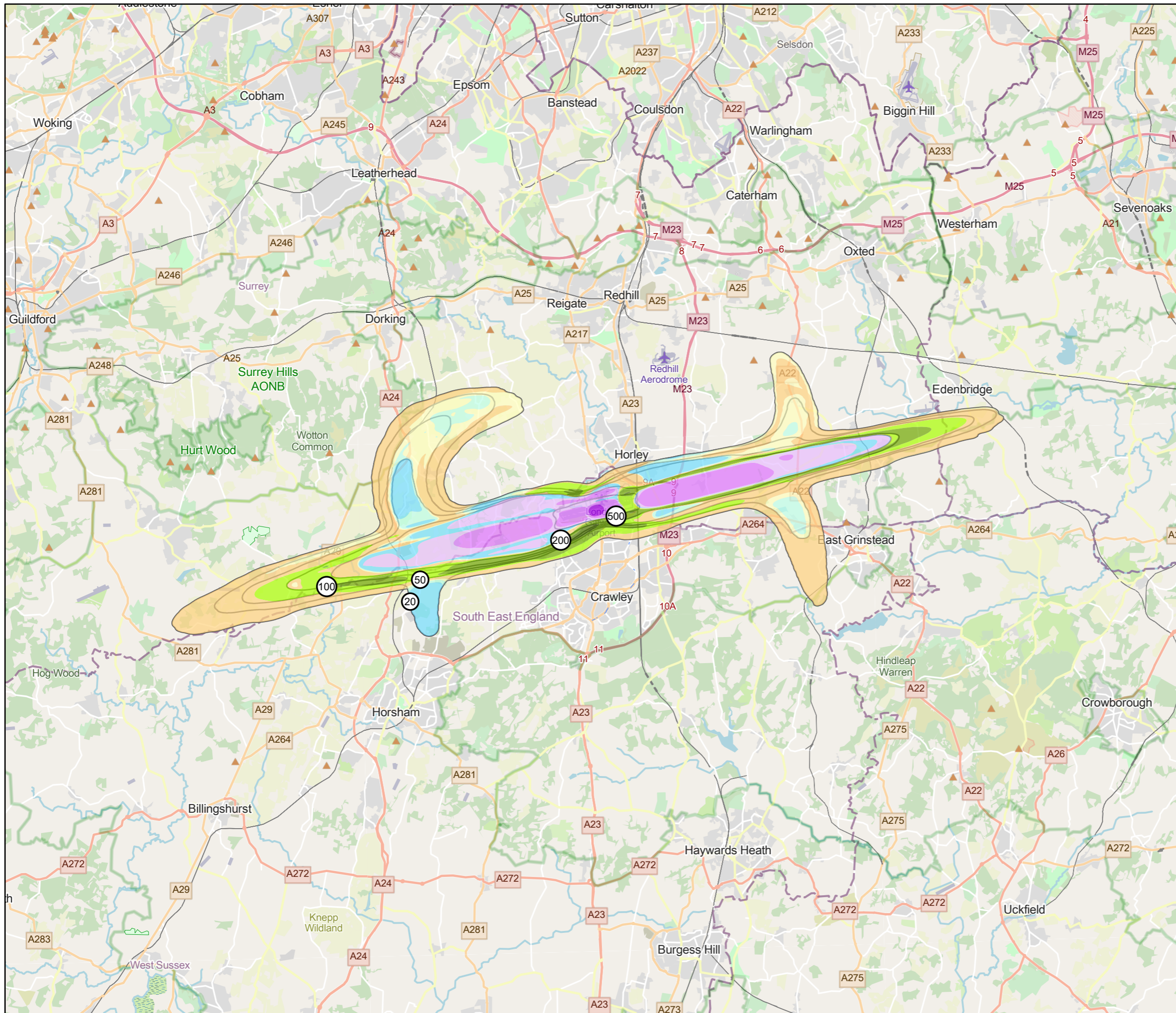


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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator

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KEY

- < -200 decrease
- 200 to -100 decrease
- 100 to -50 decrease
- 50 to -10 decrease
- 10 to 0 decrease
- 0 to +10 increase
- +10 to +50 increase
- +50 to +100 increase
- +100 to +200 increase
- +200 to +300 increase



DOCUMENT

PEIR

DRAWING TITLE

2032 Air Noise with Project Central Case v
2019 Baseline Difference N65 Day

DATE

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ORIENTATION



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14.9.16

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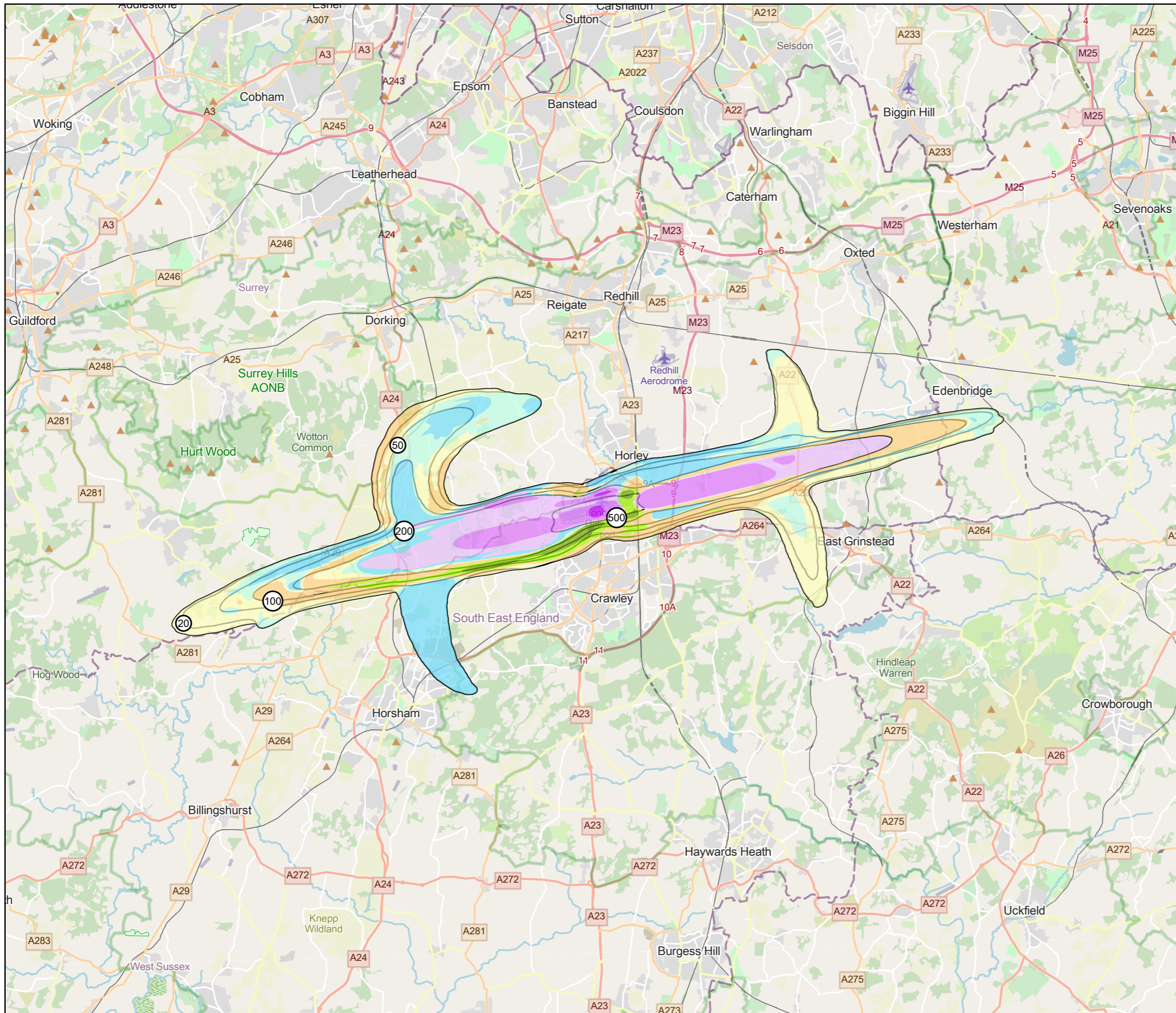
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator

KEY

- 300 to -200 decrease
- 200 to -100 decrease
- 100 to -50 decrease
- 50 to -10 decrease
- 10 to 0 decrease
- 0 to +10 increase
- +10 to +50 increase
- +50 to +100 increase
- +100 to +200 increase
- +200 to +300 increase



DOCUMENT

PEIR

DRAWING TITLE

2032 Air Noise with Project Slower
Transition Case v 2019 Baseline Difference
N65 Day

DATE

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14.9.17

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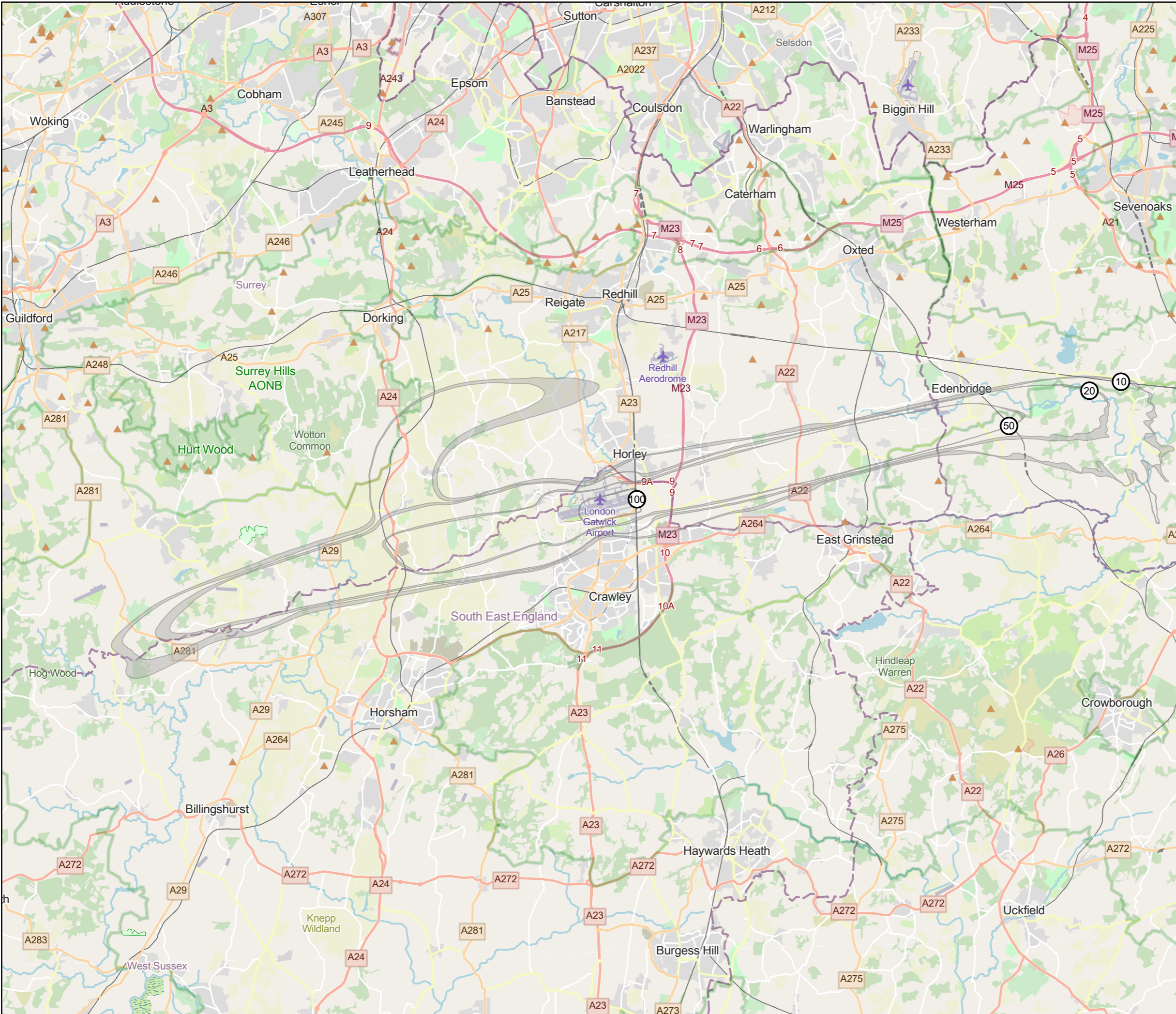
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator




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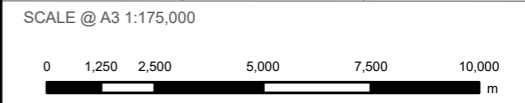
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 Central Case and Slower Transition Fleet Case Range

DOCUMENT
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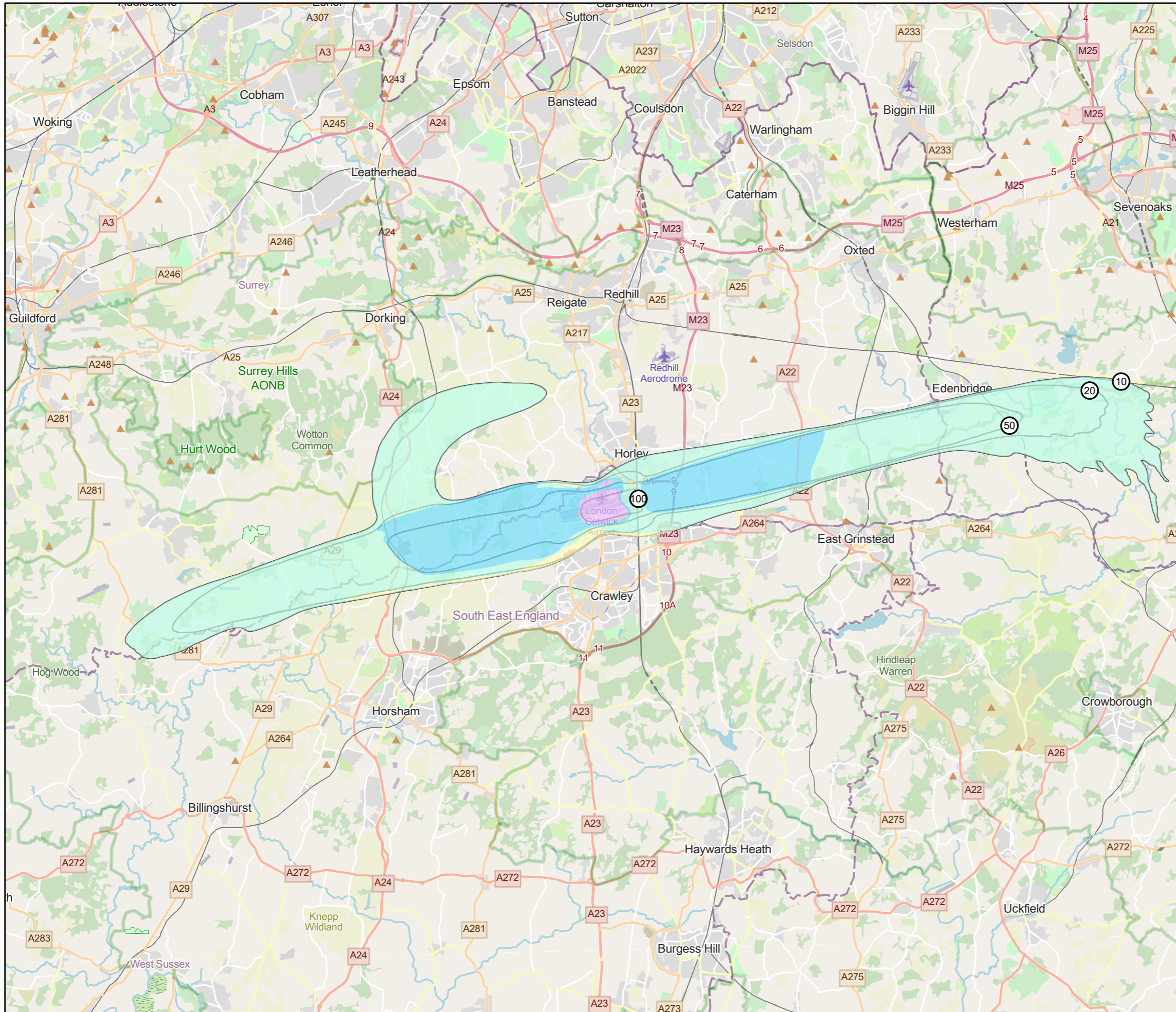
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2032 Air Noise with Project N60 Night

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 Spatial Reference
 Name: British National Grid
 Datum: OSGB 1996
 Projection: Transverse Mercator



KEY

- 10 to -5 decrease
- 5 to 0 decrease
- 0 to +5 increase
- +5 to +10 increase
- +10 to +15 increase

DOCUMENT

PEIR

DRAWING TITLE

2032 Air Noise with Project Central Case v
2032 Baseline Difference N60 Night

DATE

September 2021

ORIENTATION



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14.9.19

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For PEIR
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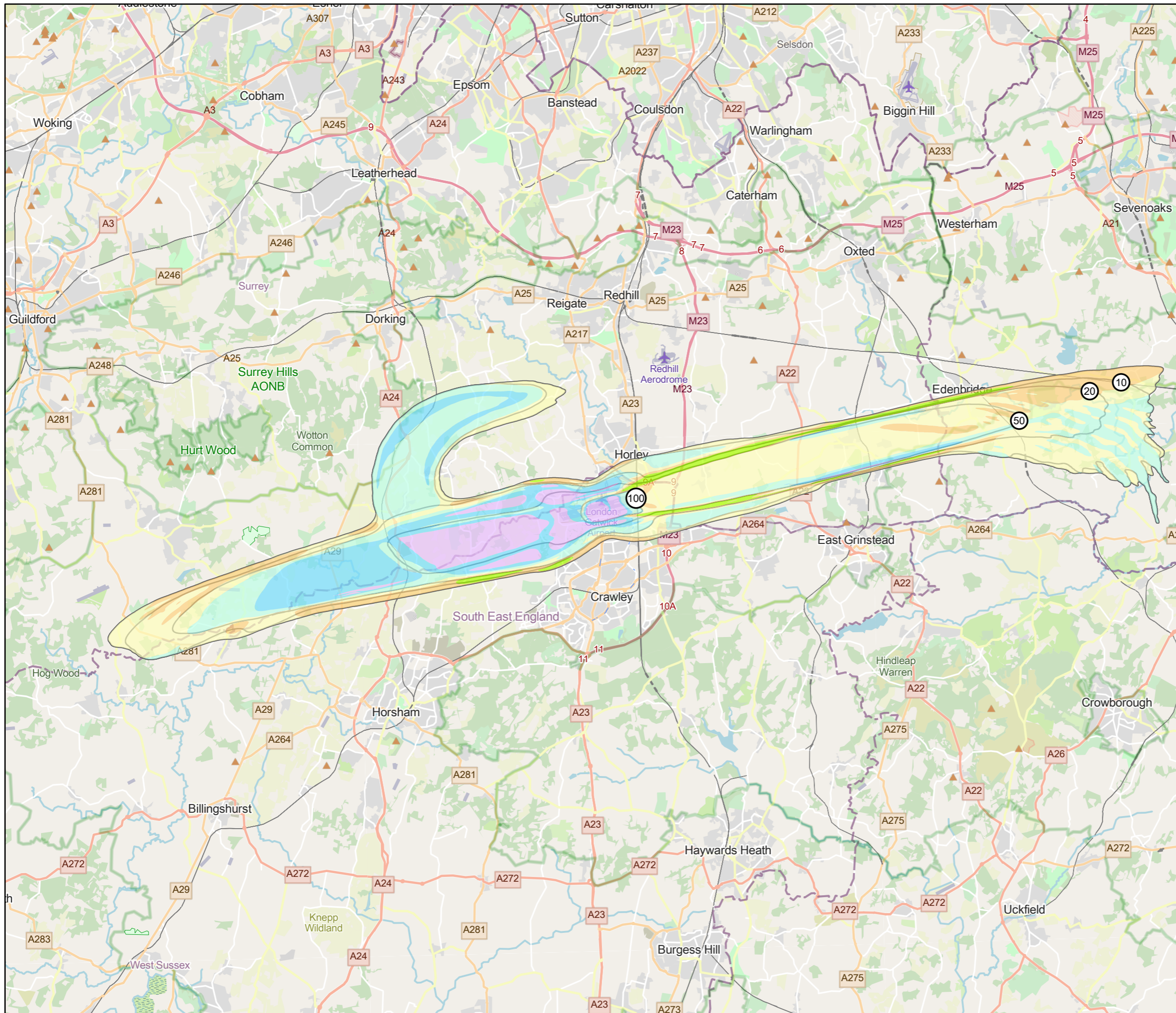
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator

KEY

- 50 to -10 decrease
- 10 to -5 decrease
- 5 to 0 decrease
- 0 to +5 increase
- +5 to +10 increase
- +10 to +50 increase



DOCUMENT

PEIR

DRAWING TITLE

2032 Air Noise with Project Central Case v
2019 Baseline Difference N60 Night

DATE

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ORIENTATION



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14.9.21

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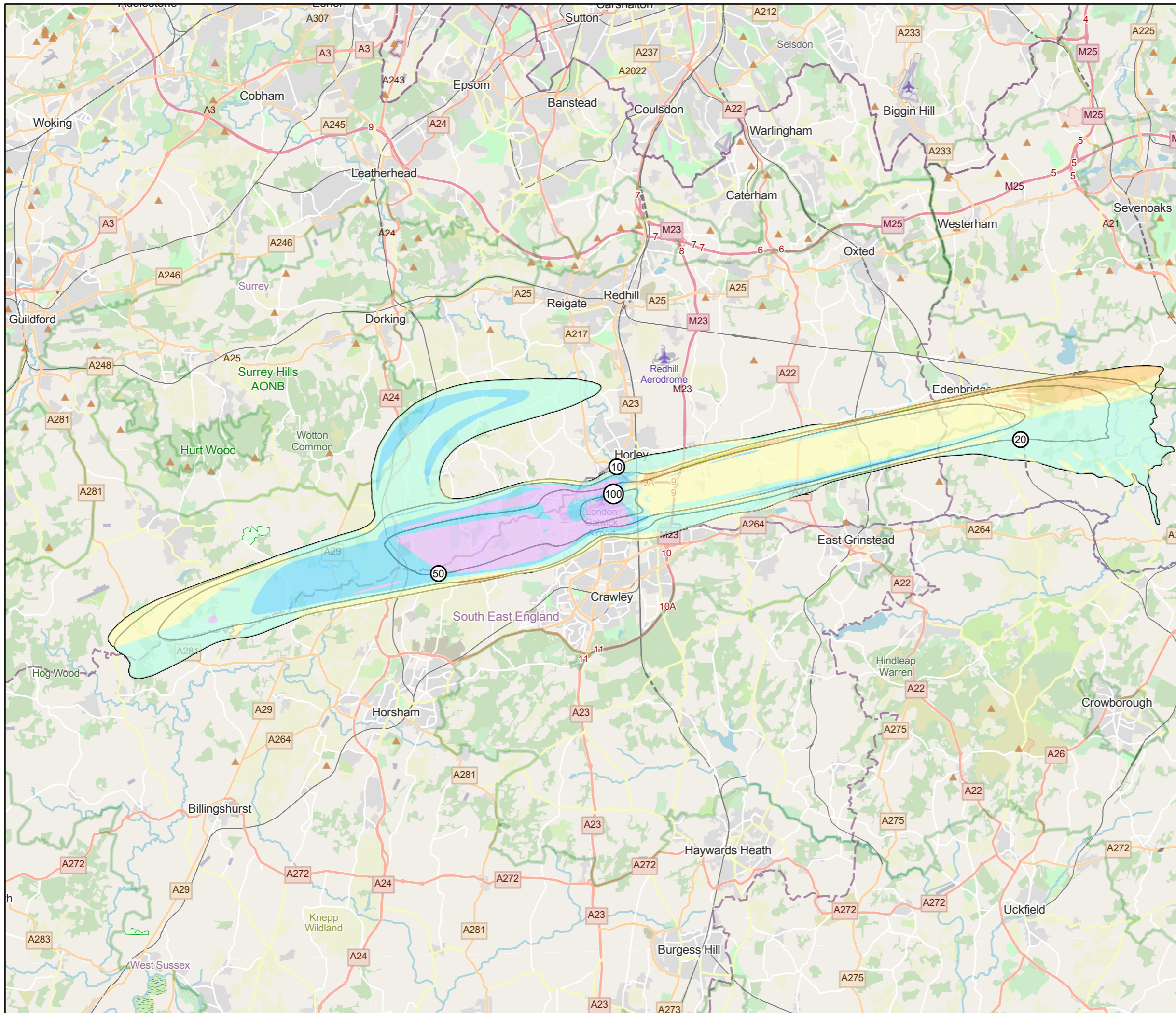
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator

KEY

- 50 to -10 decrease
- 10 to -5 decrease
- 5 to 0 decrease
- 0 to +5 increase
- +5 to +10 increase
- +10 to +50 increase



DOCUMENT

PEIR

DRAWING TITLE

2032 Air Noise with Project Slower Transitions Case v 2019 Baseline Difference N60 Night

DATE

September 2021

ORIENTATION



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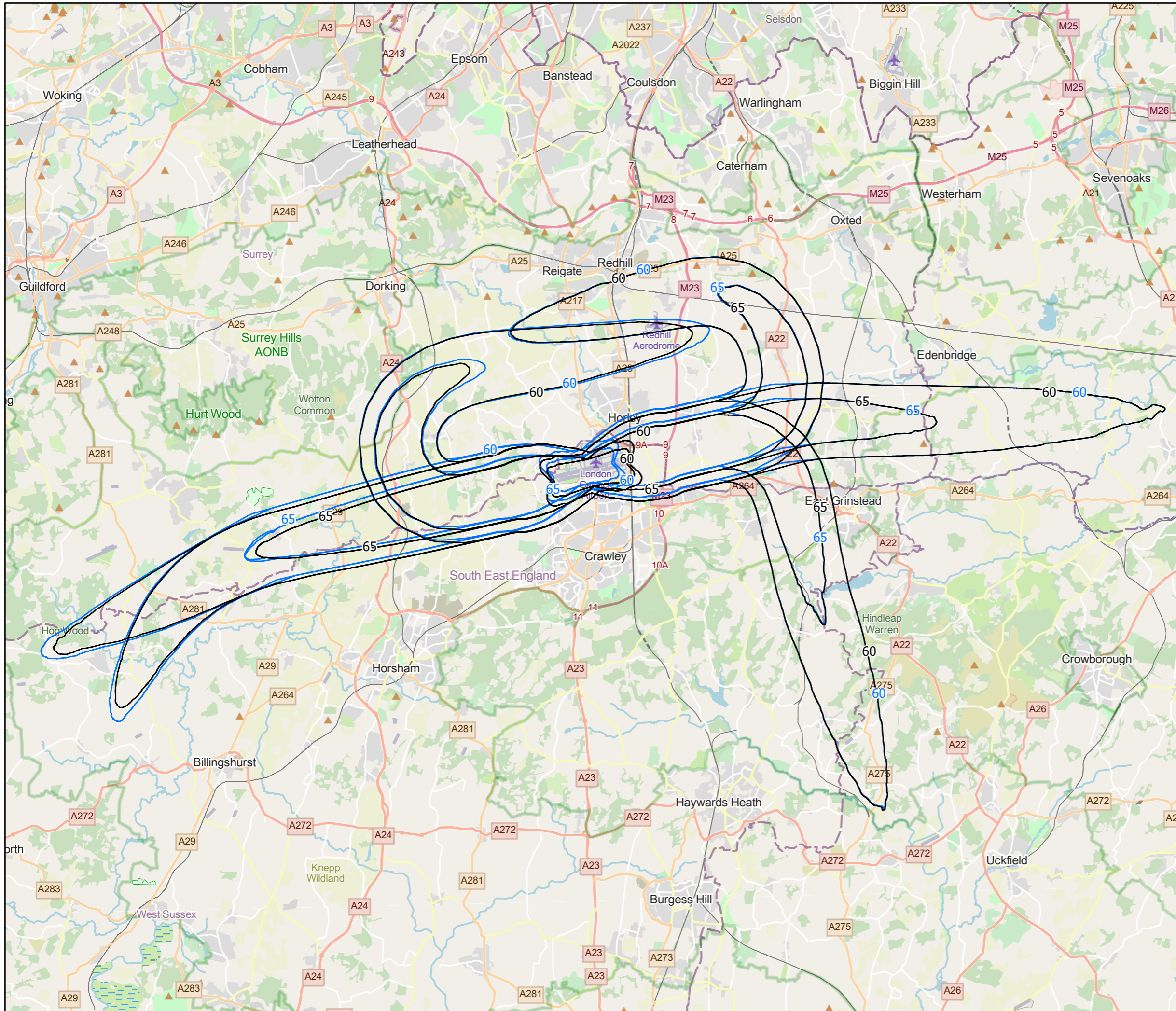
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator

KEY

-  Main Runway
-  Northern Runway



DOCUMENT

PEIR

DRAWING TITLE

2032 Air Noise Baseline and Northern Runway A320 L_{max} 60 and 65dB Footprints

DATE

September 2021

ORIENTATION



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14.9.23

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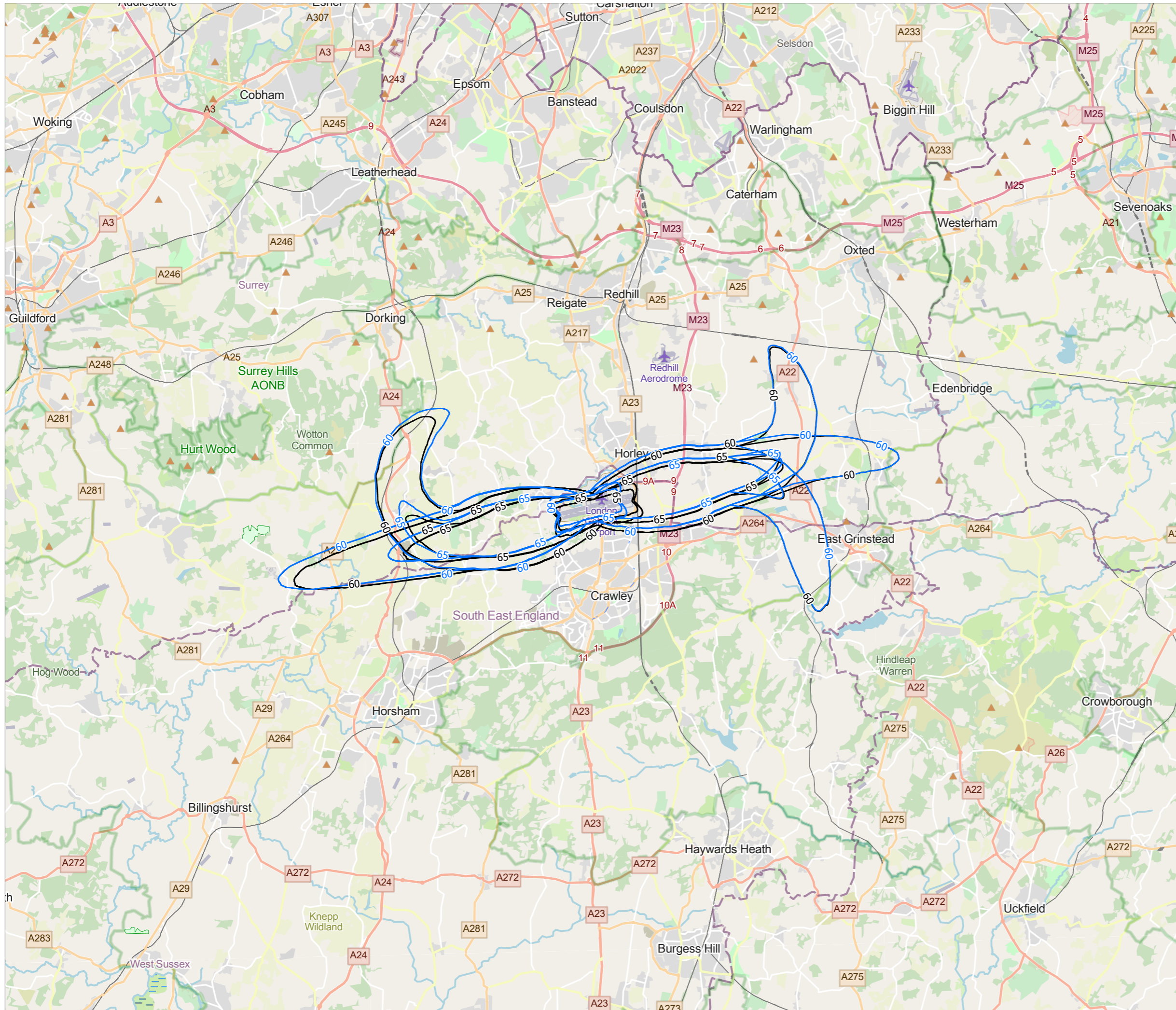
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator

KEY

-  Main Runway
-  Northern Runway



DOCUMENT

PEIR

DRAWING TITLE

2032 Air Noise Baseline and Northern Runway A320 Neo L_{max} 60 and 65dB Footprints

DATE

September 2021

ORIENTATION



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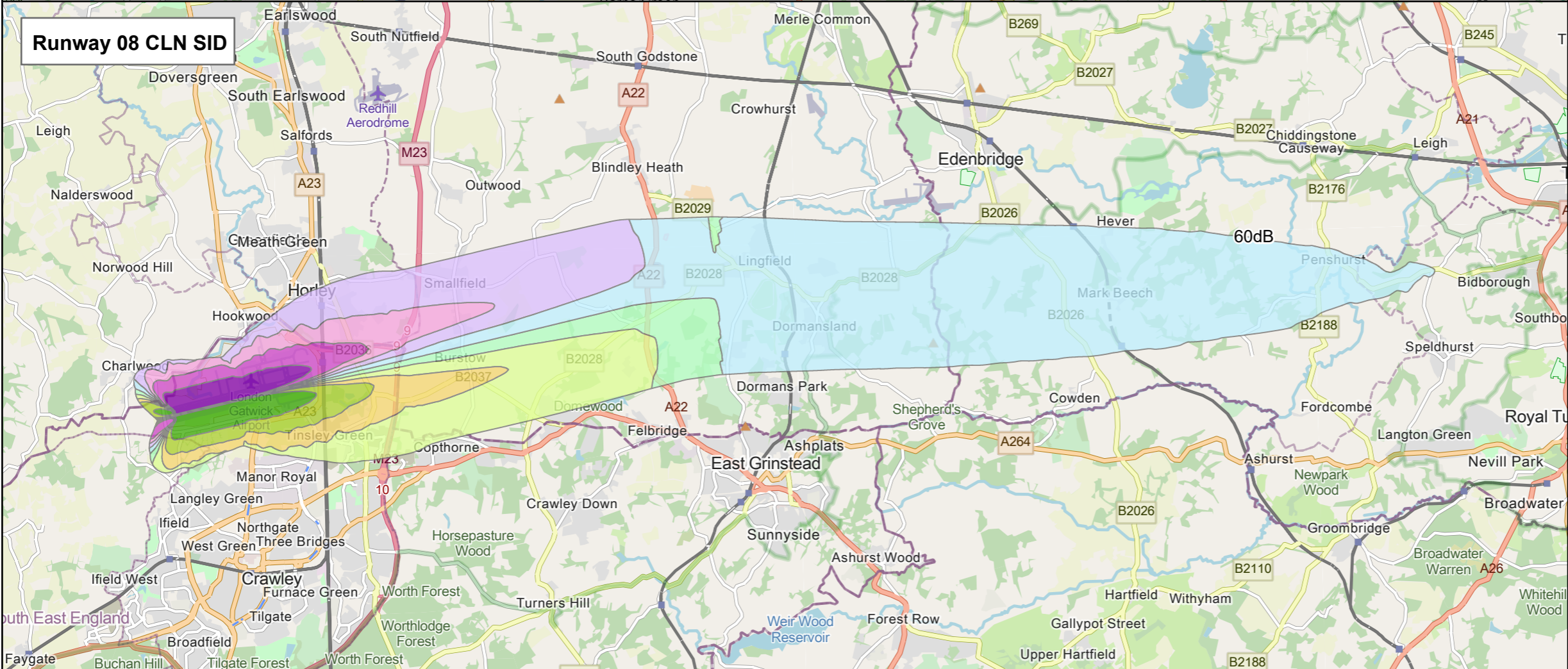
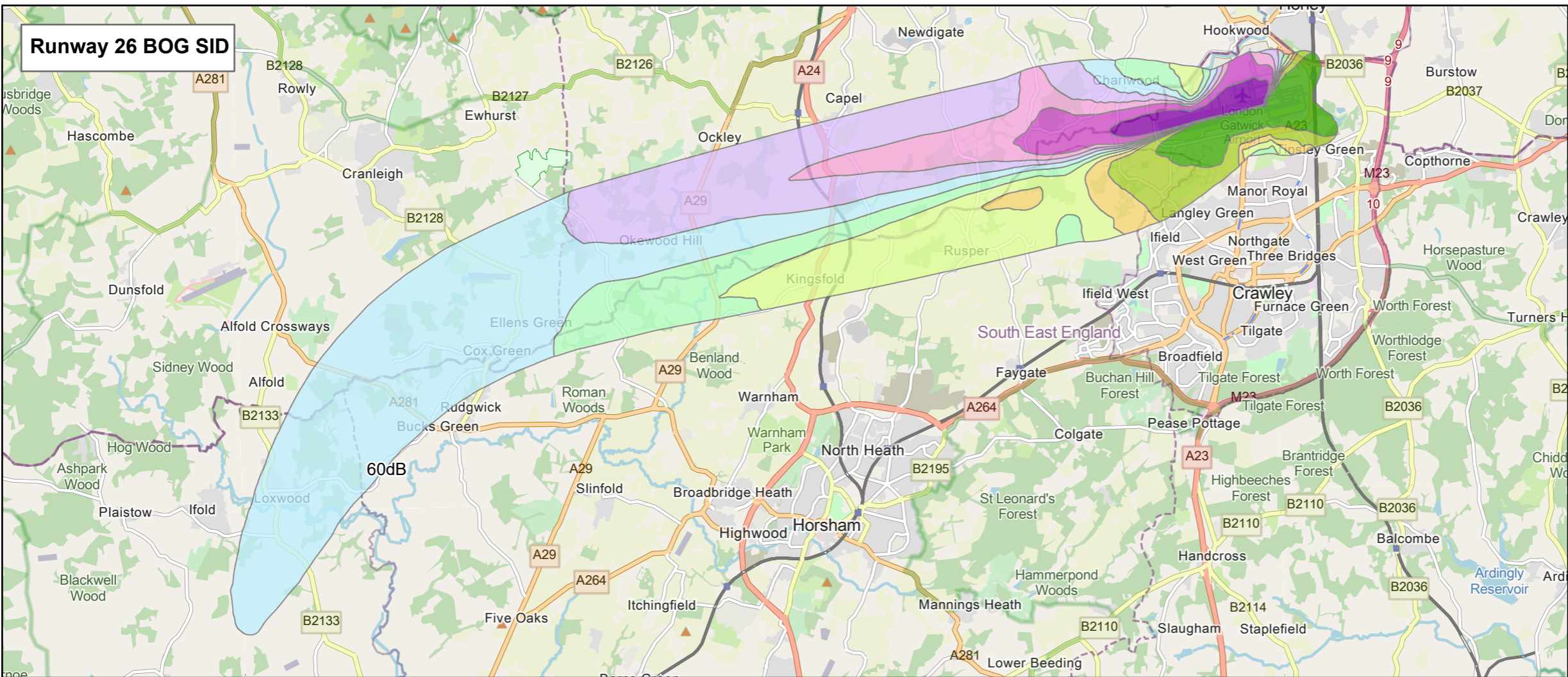
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator



KEY

- < -6 dB
- 6 to -3 dB
- 3 to -2 dB
- 2 to -1 dB
- 1 to 0 dB
- 0 to +1 dB
- +1 to +2 dB
- +2 to +3 dB
- +3 to +6 dB
- > +6 dB

DOCUMENT
PEIR

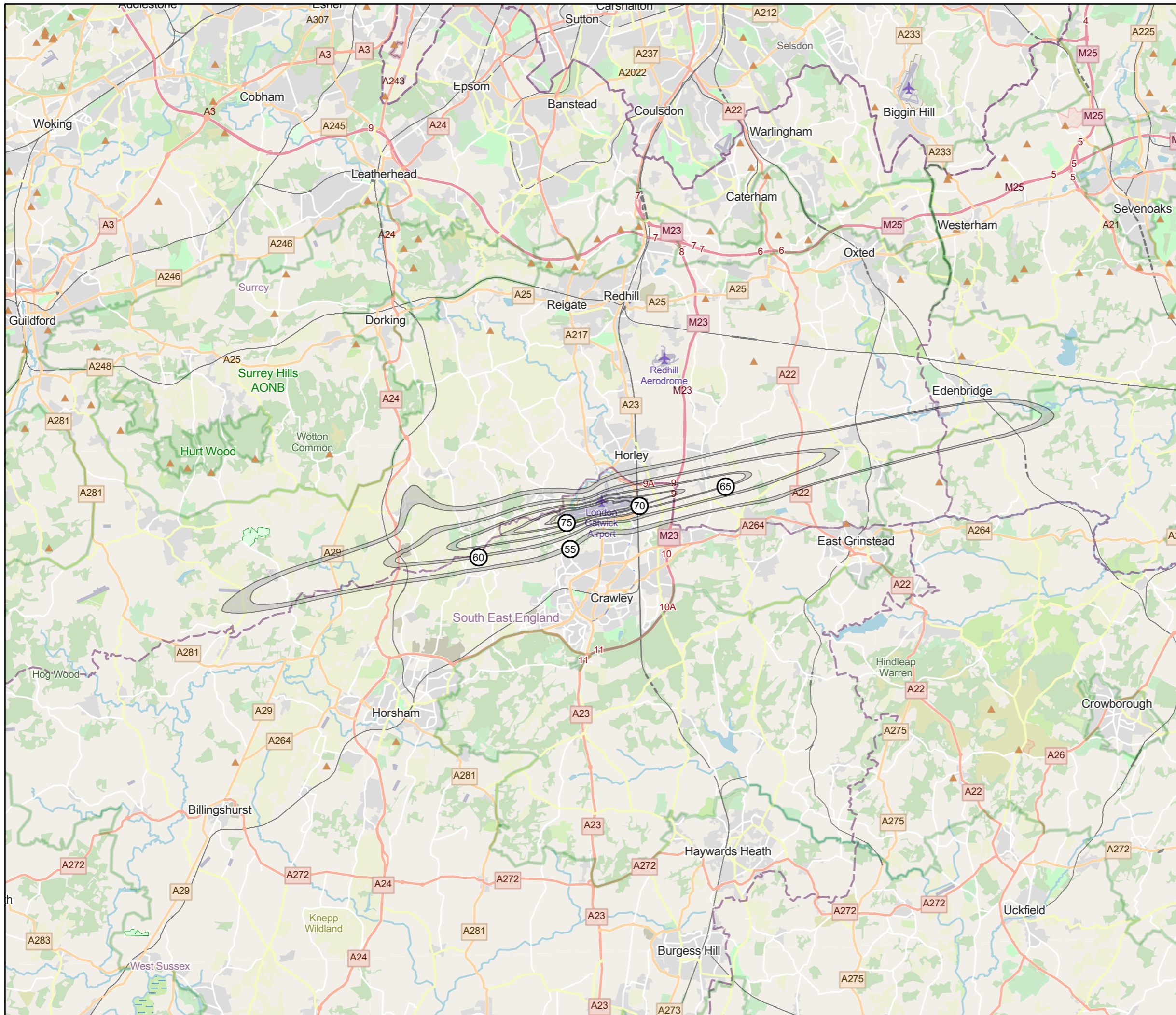
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A320 Departure L_{max} Examples: Northern Runway versus Baseline Difference

DATE
September 2021

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SCALE @ A3 1:115,000

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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator



YOUR LONDON AIRPORT
Gatwick

KEY

Central Case and Slower Transition Fleet Case Range

DOCUMENT

PEIR

DRAWING TITLE

2032 Air Noise L_{den} Annual Contours with the Project

DATE

September 2021

ORIENTATION



DRAWING NO.

14.9.26

REVISION

For PEIR Issue

DRAWN BY

WB

PM / CHECKED BY

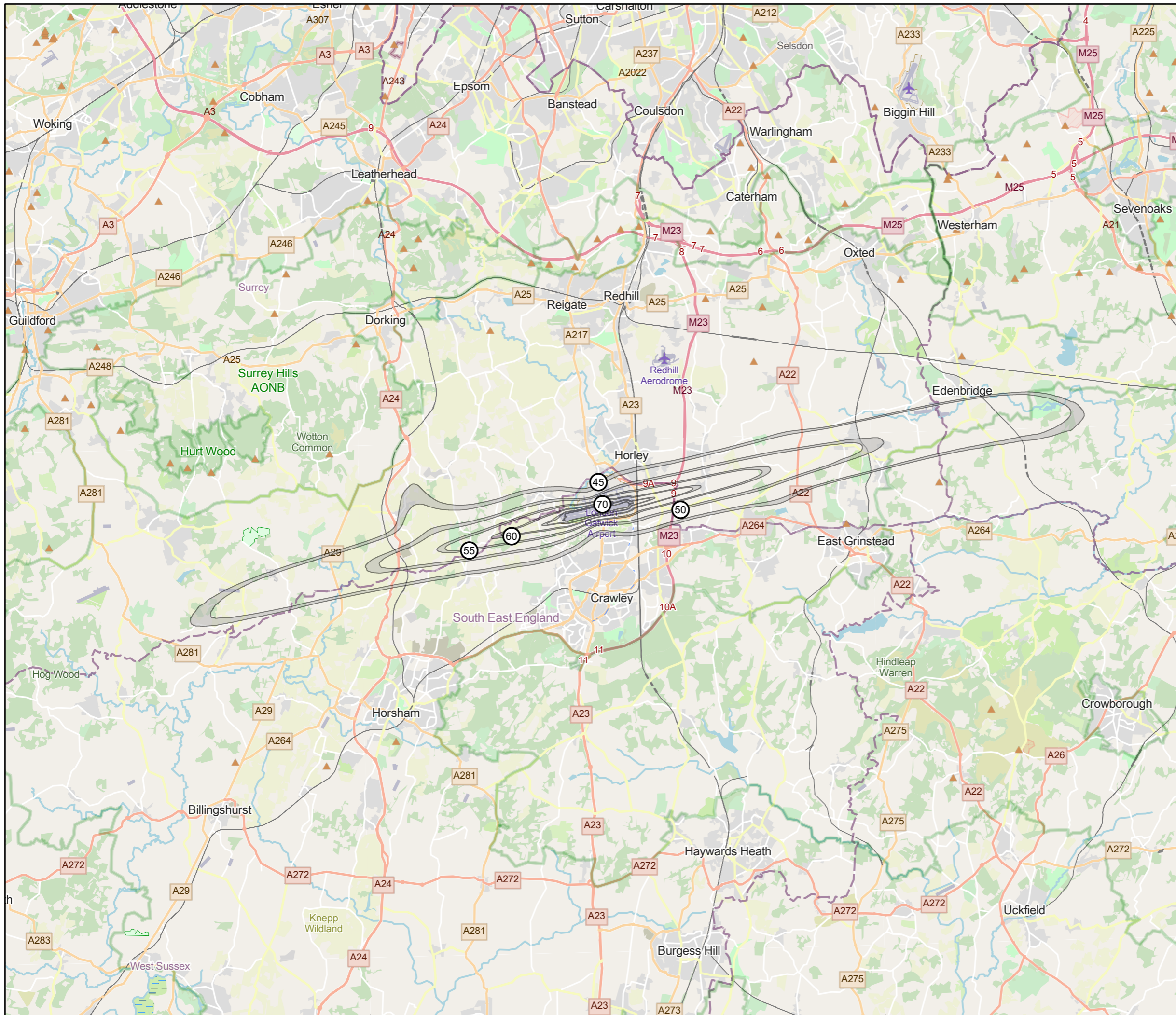
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SCALE @ A3 1:175,000



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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator



YOUR LONDON AIRPORT
Gatwick

KEY

Central Case and Slower Transition Fleet Case Range

DOCUMENT

PEIR

DRAWING TITLE

2032 Air Noise L_{Night} Annual Contours with the Project

DATE

September 2021

ORIENTATION



DRAWING NO.

14.9.27

REVISION

For PEIR Issue

DRAWN BY

WB

PM / CHECKED BY

SM

SCALE @ A3 1:175,000

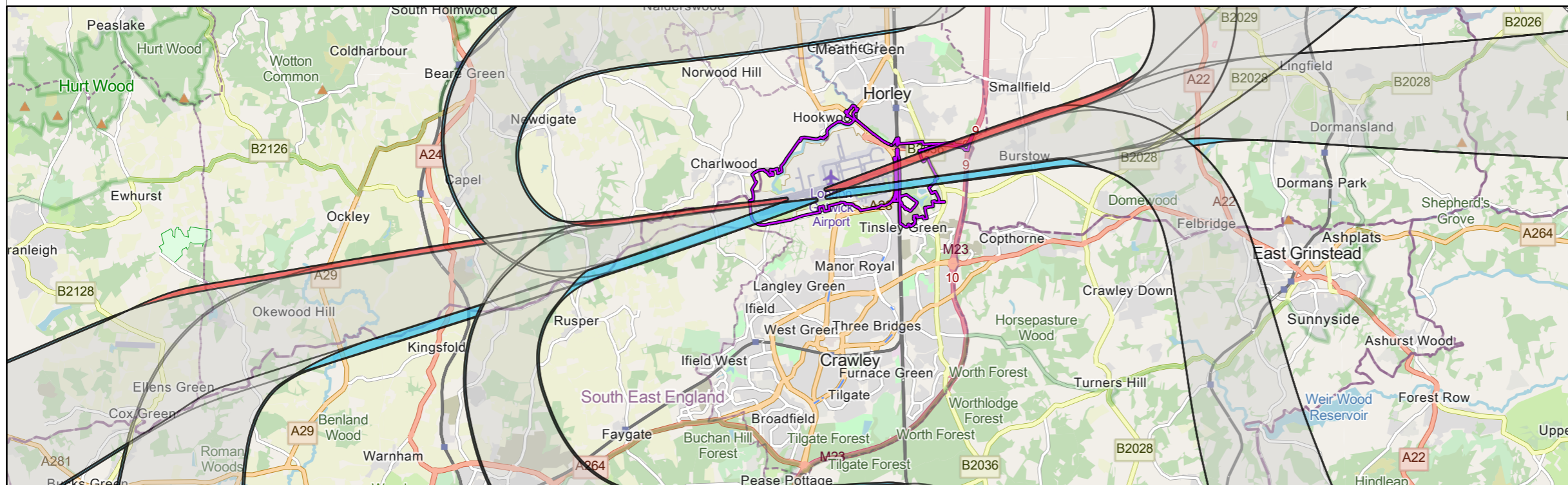


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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator

KEY

- Area Overflow from Northern Runway Only (Departures)
- Area Overflow from Main Runway Only (Departures)
- Area Overflow from both Main and Northern Runways (Departures)
- Project Site Boundary - PEIR



DOCUMENT

PEIR

DRAWING TITLE

2032 Departure Overflights from the Main and Northern Runways

DATE

September 2021

ORIENTATION



DRAWING NO.

14.9.28

REVISION

For PEIR Issue

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JS

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SM

SCALE @ A3 1:125,000



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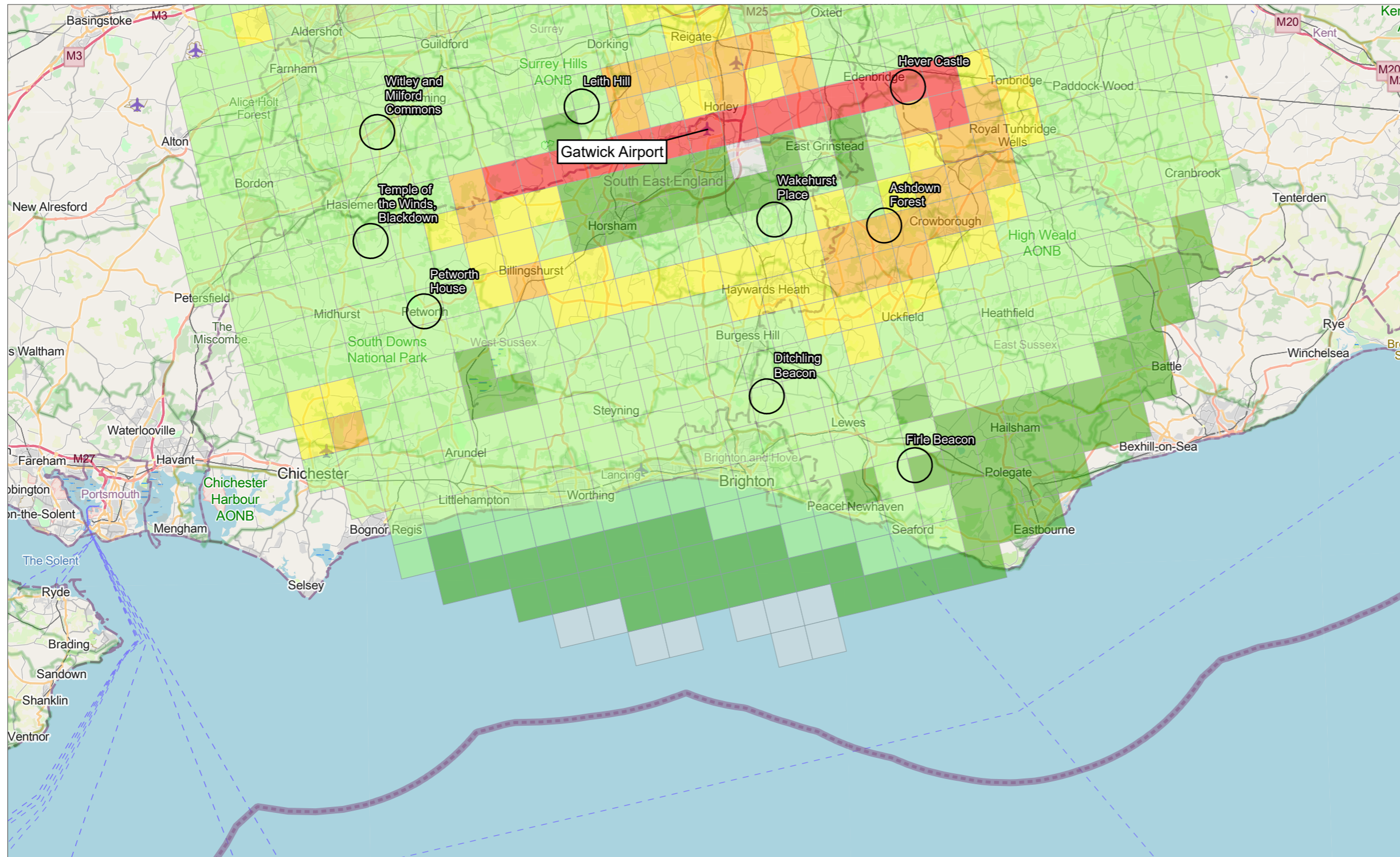
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator

YOUR LONDON AIRPORT
Gatwick

KEY

- Landscape Assessment Location
- < 1
- 1 - 10
- 10 - 50
- 50 - 100
- 100 - 200
- > 200



DOCUMENT

PEIR

DRAWING TITLE

All Airport Overflights With
Project Flights (20%)

DATE

September 2021

ORIENTATION



DRAWING NO.

14.9.29

REVISION

For PEIR
Issue

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JS

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SM

SCALE @ A3 1:450,000



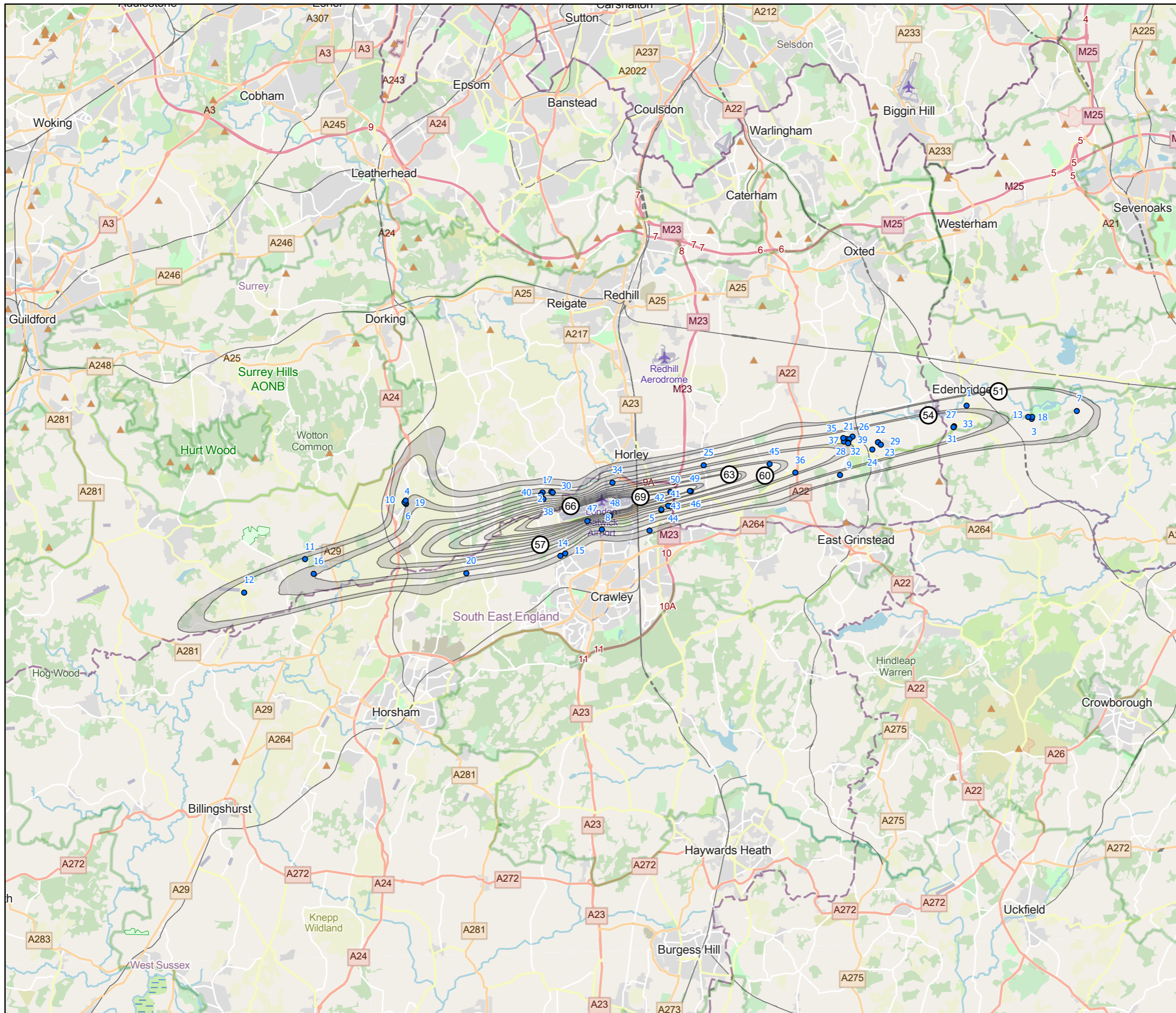
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator

KEY

- Noise Sensitive Community Buildings
- Central Case and Slower Transition Fleet Case Range



DOCUMENT

PEIR

DRAWING TITLE

2032 Air Noise Project $L_{eq} 16$ hr and Noise Sensitive Community Buildings

DATE

September 2021

ORIENTATION



DRAWING NO.

14.9.30

REVISION

For PEIR Issue

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JS

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SM

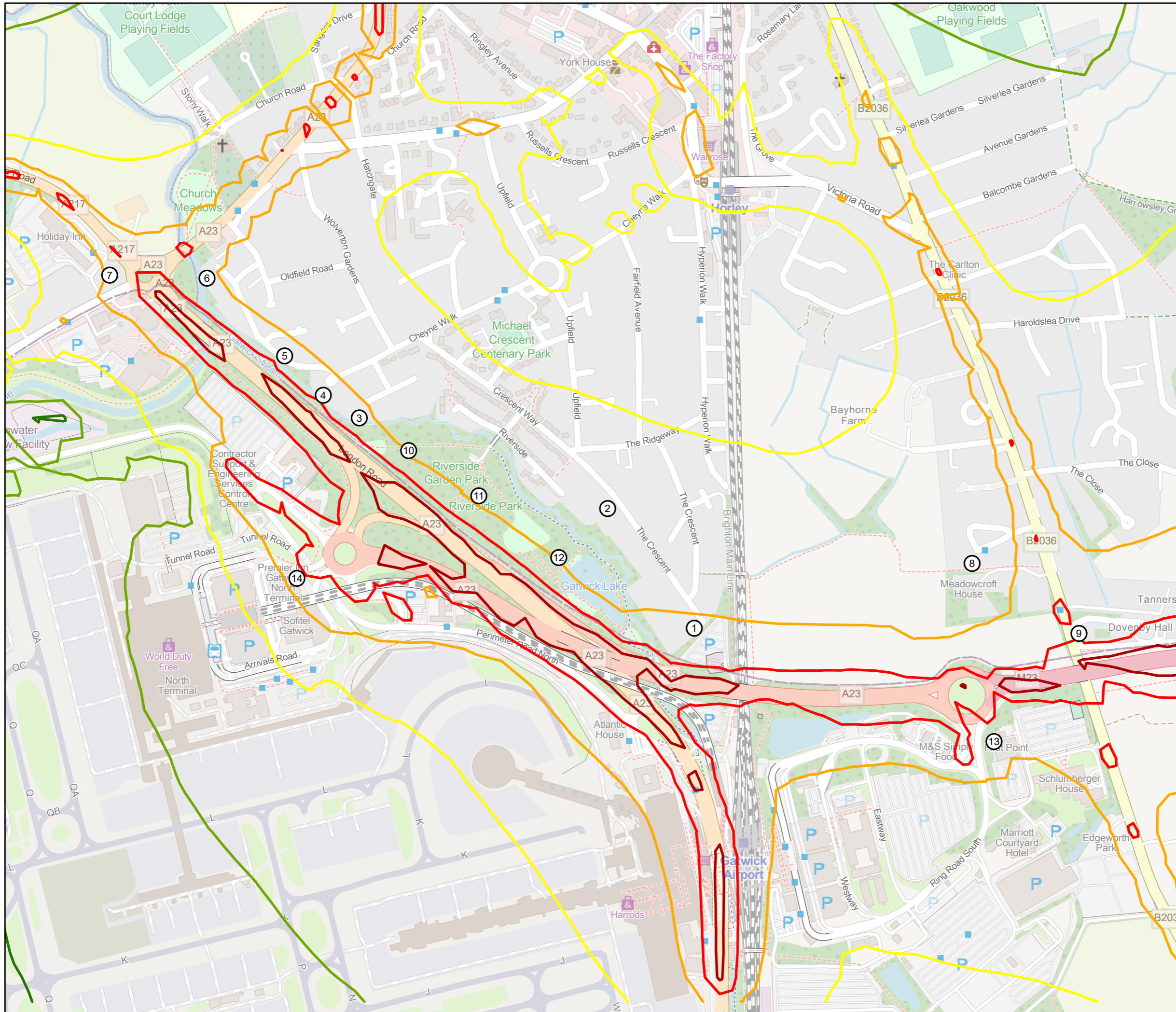
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator



KEY

- 55 LA10, 18HR dB
- 60 LA10, 18HR dB
- 65 LA10, 18HR dB
- 70 LA10, 18HR dB
- 75 LA10, 18HR dB
- 80 LA10, 18HR dB
- Receptors

Number Name

- | | |
|----|-----------------------------|
| 1 | The Crescent East |
| 2 | The Crescent West |
| 3 | Woodroyd Gardens |
| 4 | Cheyne Walk |
| 5 | Longbridge Road East |
| 6 | Longbridge Road West |
| 7 | Povey Cross Road |
| 8 | Meadowcroft Close |
| 9 | B20356 Balcombe Road |
| 10 | Riverside Park North |
| 11 | Riverside Park Centre |
| 12 | Riverside Park South |
| 13 | First Point Office Building |
| 14 | Premier Inn |

DOCUMENT

PEIR

DRAWING TITLE

2032 Traffic Noise Levels with Project

DATE

September 2021

ORIENTATION



DRAWING NO.

14.9.31

REVISION

For PEIR Issue

DRAWN BY

JS

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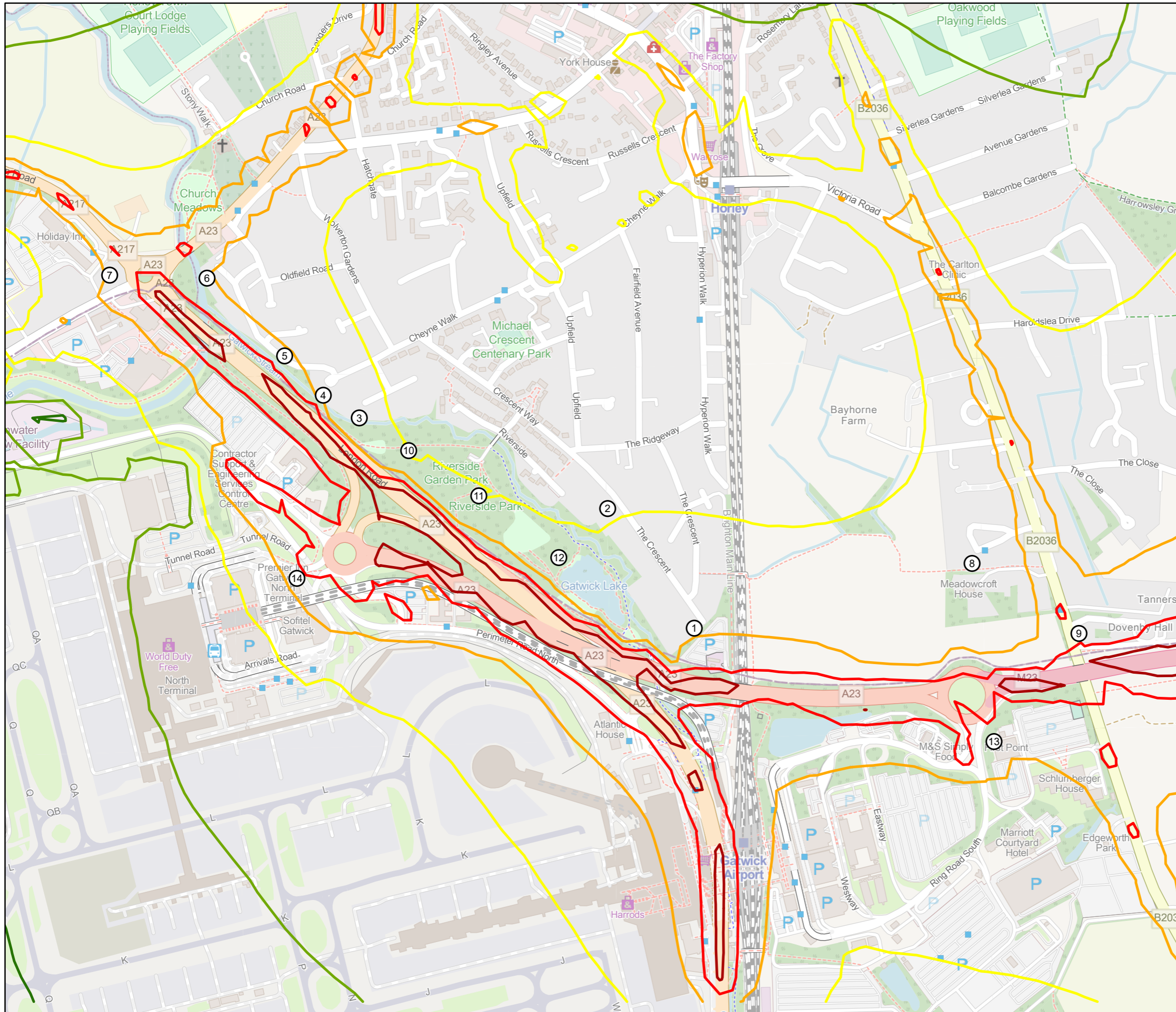
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator



KEY

- 55 L A₁₀, 18HR dB
- 60 L A₁₀, 18HR dB
- 65 L A₁₀, 18HR dB
- 70 L A₁₀, 18HR dB
- 75 L A₁₀, 18HR dB
- 80 L A₁₀, 18HR dB
- Receptors

Number Name

- | | |
|----|-----------------------------|
| 1 | The Crescent East |
| 2 | The Crescent West |
| 3 | Woodroyd Gardens |
| 4 | Cheyne Walk |
| 5 | Longbridge Road East |
| 6 | Longbridge Road West |
| 7 | Povey Cross Road |
| 8 | Meadowcroft Close |
| 9 | B20356 Balcombe Road |
| 10 | Riverside Park North |
| 11 | Riverside Park Centre |
| 12 | Riverside Park South |
| 13 | First Point Office Building |
| 14 | Premier Inn |

DOCUMENT

PEIR

DRAWING TITLE

2032 Traffic Noise Levels with Project with Mitigation

DATE

September 2021

ORIENTATION



DRAWING NO.

14.9.32

REVISION

For PEIR Issue

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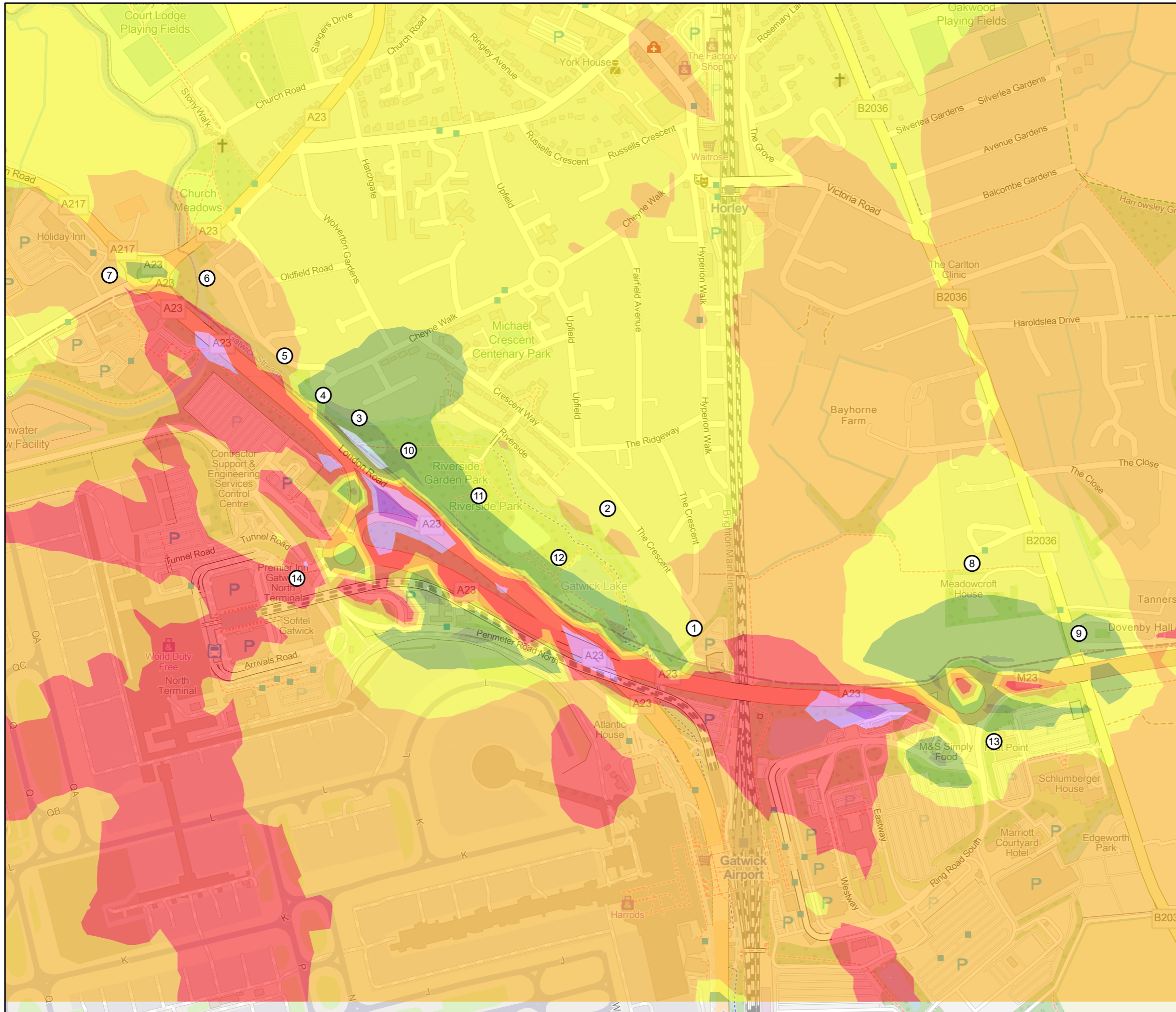
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator



KEY

- < -5 dB
- 5 to -3 dB
- 3 to -1 dB
- 1 to 0 dB
- 0 to +1 dB
- +1 to +3 dB
- +3 to +5 dB
- > +5 dB
- Receptors

Number Name

- 1 The Crescent East
- 2 The Crescent West
- 3 Woodroyd Gardens
- 4 Cheyne Walk
- 5 Longbridge Road East
- 6 Longbridge Road West
- 7 Povey Cross Road
- 8 Meadowcroft Close
- 9 B20356 Balcombe Road
- 10 Riverside Park North
- 11 Riverside Park Centre
- 12 Riverside Park South
- 13 First Point Office Building
- 14 Premier Inn

DOCUMENT

PEIR

DRAWING TITLE

2032 Traffic Noise Levels with Project with Mitigation v 2032 Base

DATE

September 2021

ORIENTATION



DRAWING NO.

14.9.33

REVISION

For PEIR Issue

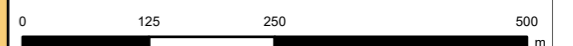
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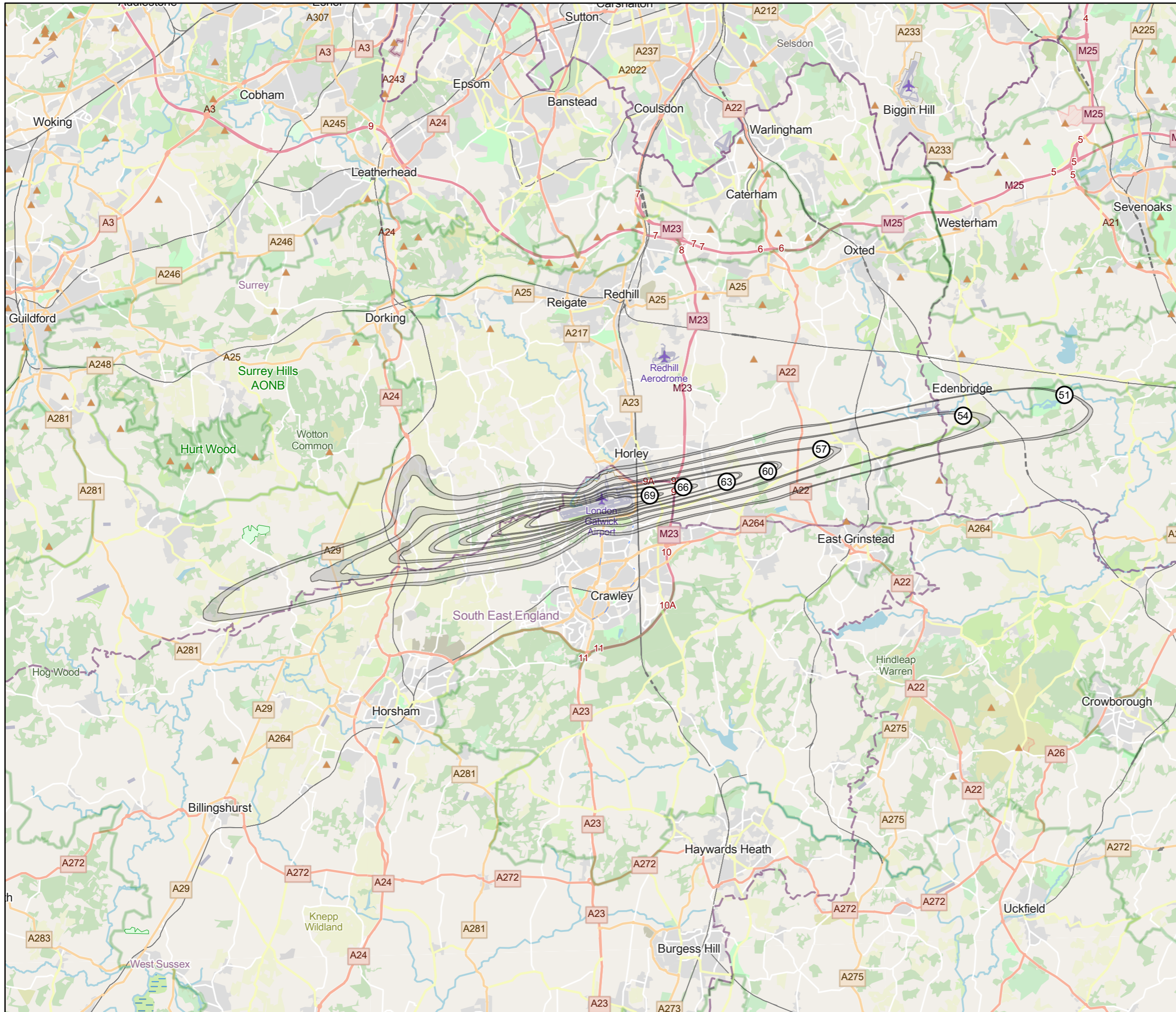
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator



YOUR LONDON AIRPORT
Gatwick

KEY

Central Case and Slower Transition Fleet Case Range

DOCUMENT

PEIR

DRAWING TITLE

2038 Air Noise with Project, L_{eq}, 16 hr

DATE

September 2021

ORIENTATION



DRAWING NO.

14.9.34

REVISION

For PEIR Issue

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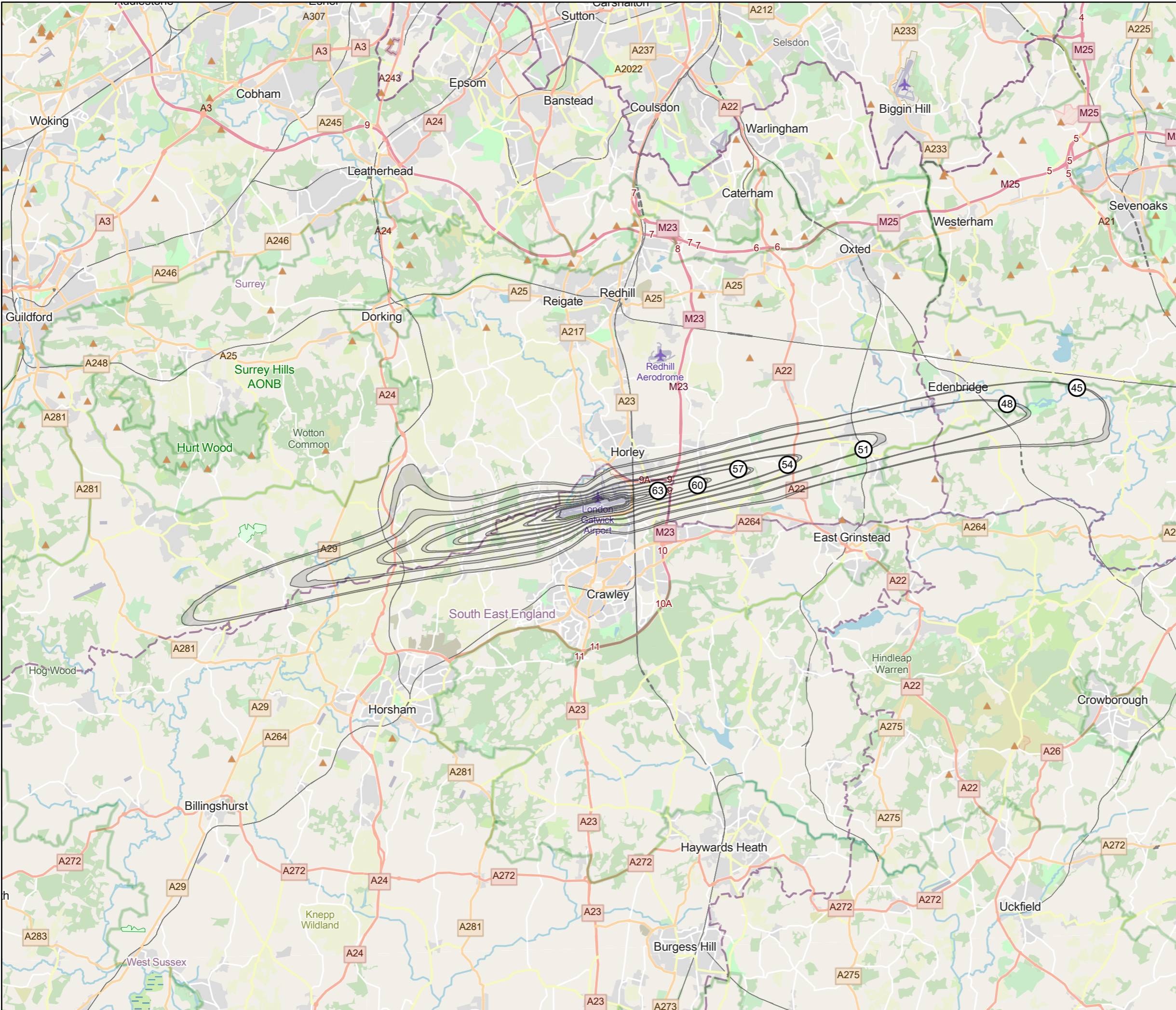
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator



YOUR LONDON AIRPORT
Gatwick

KEY

Central Case and Slower Transition Fleet Case Range

DOCUMENT

PEIR

DRAWING TITLE

2038 Air Noise with Project, L_{eq} 8 hr Night

DATE

September 2021

ORIENTATION



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14.9.35

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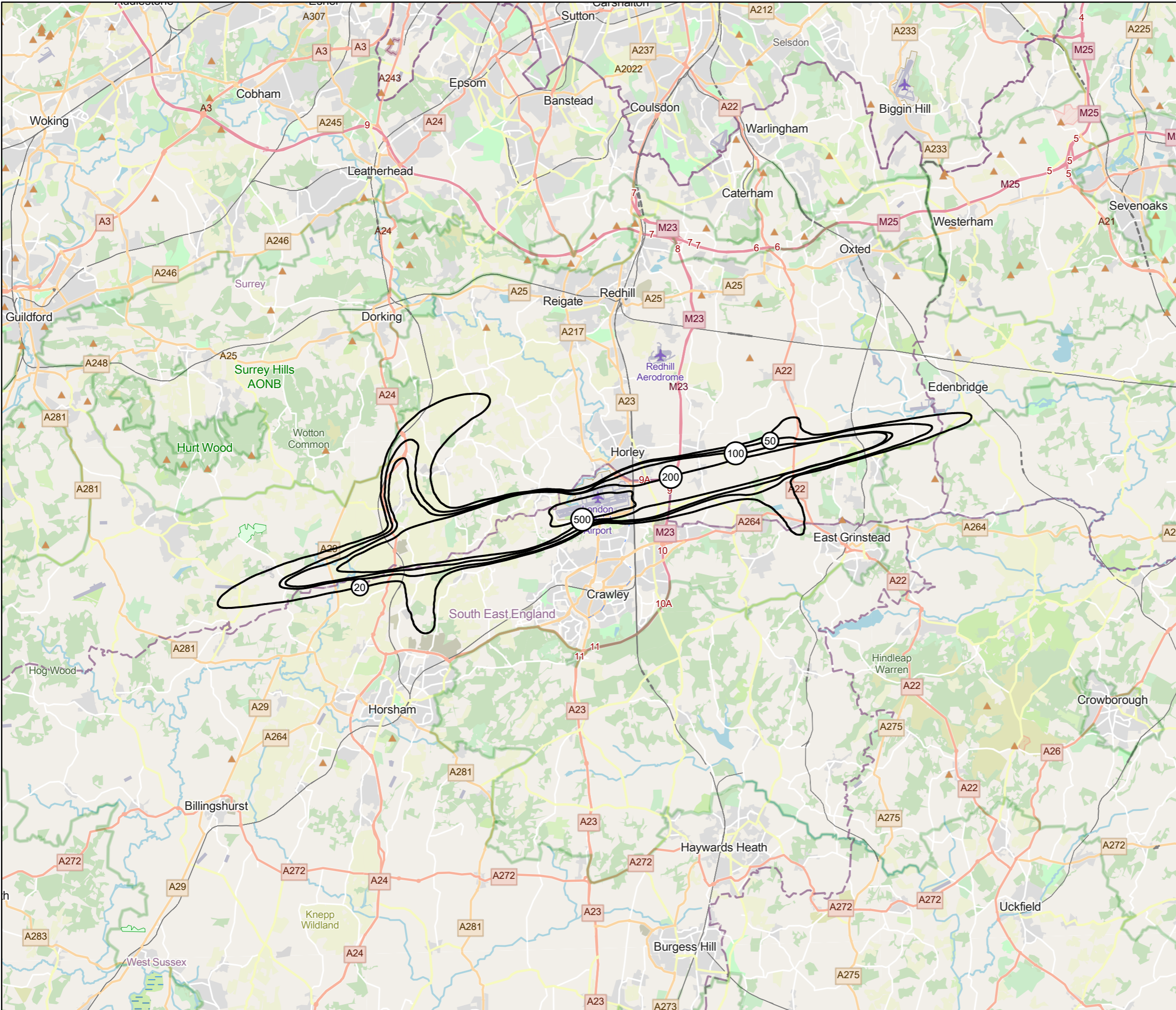
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator



YOUR LONDON AIRPORT
Gatwick

KEY

— Central Case

DOCUMENT

PEIR

DRAWING TITLE

2038 Air Noise with Project N65 Day

DATE

September 2021

ORIENTATION



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14.9.36

REVISION

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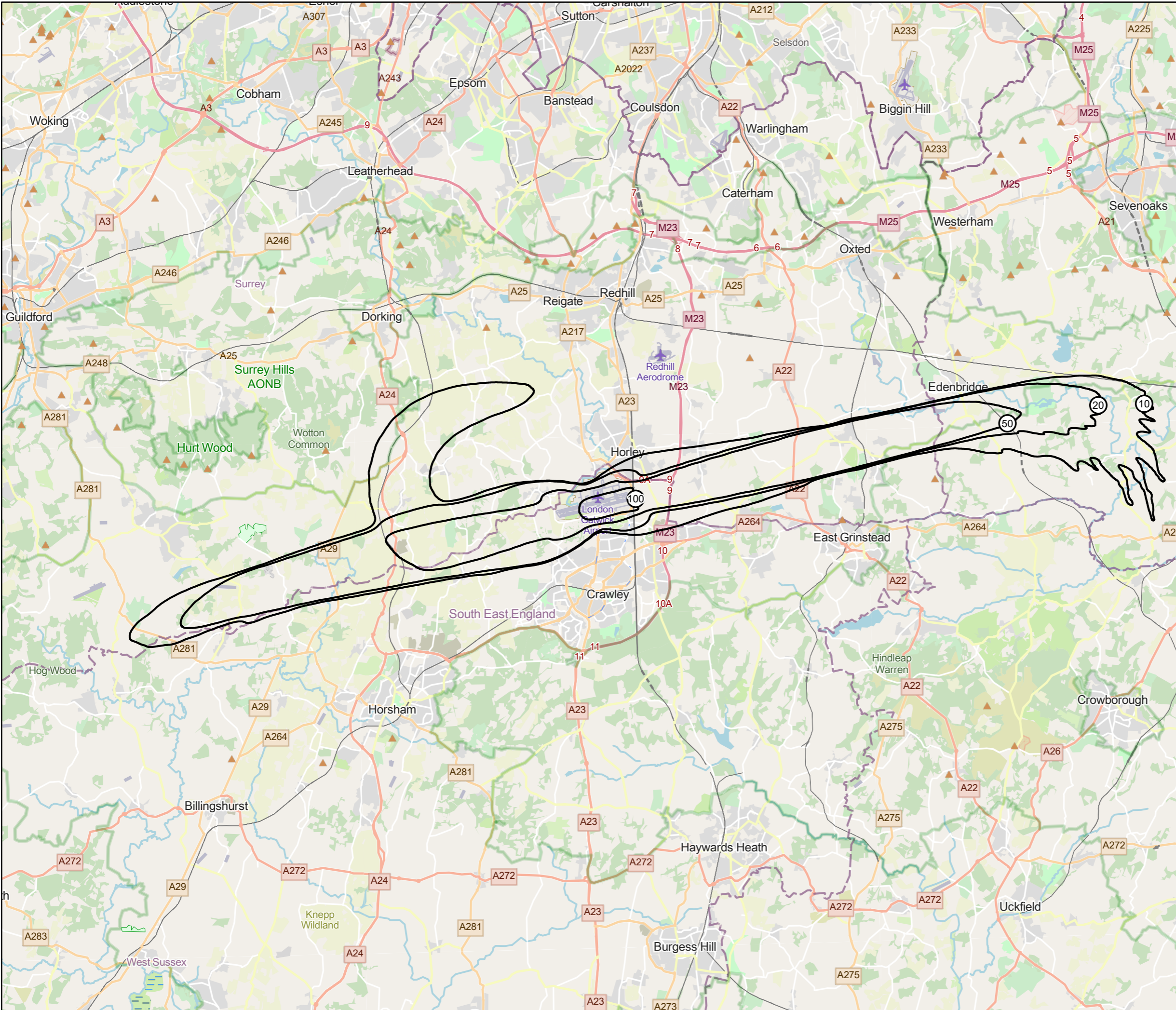
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Datum: OSGB 1936
Projection: Transverse Mercator



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Gatwick

KEY

— Central Case

DOCUMENT

PEIR

DRAWING TITLE

2038 Air Noise with Project N60 Night

DATE

September 2021

ORIENTATION



DRAWING NO.

14.9.37

REVISION

For PEIR Issue

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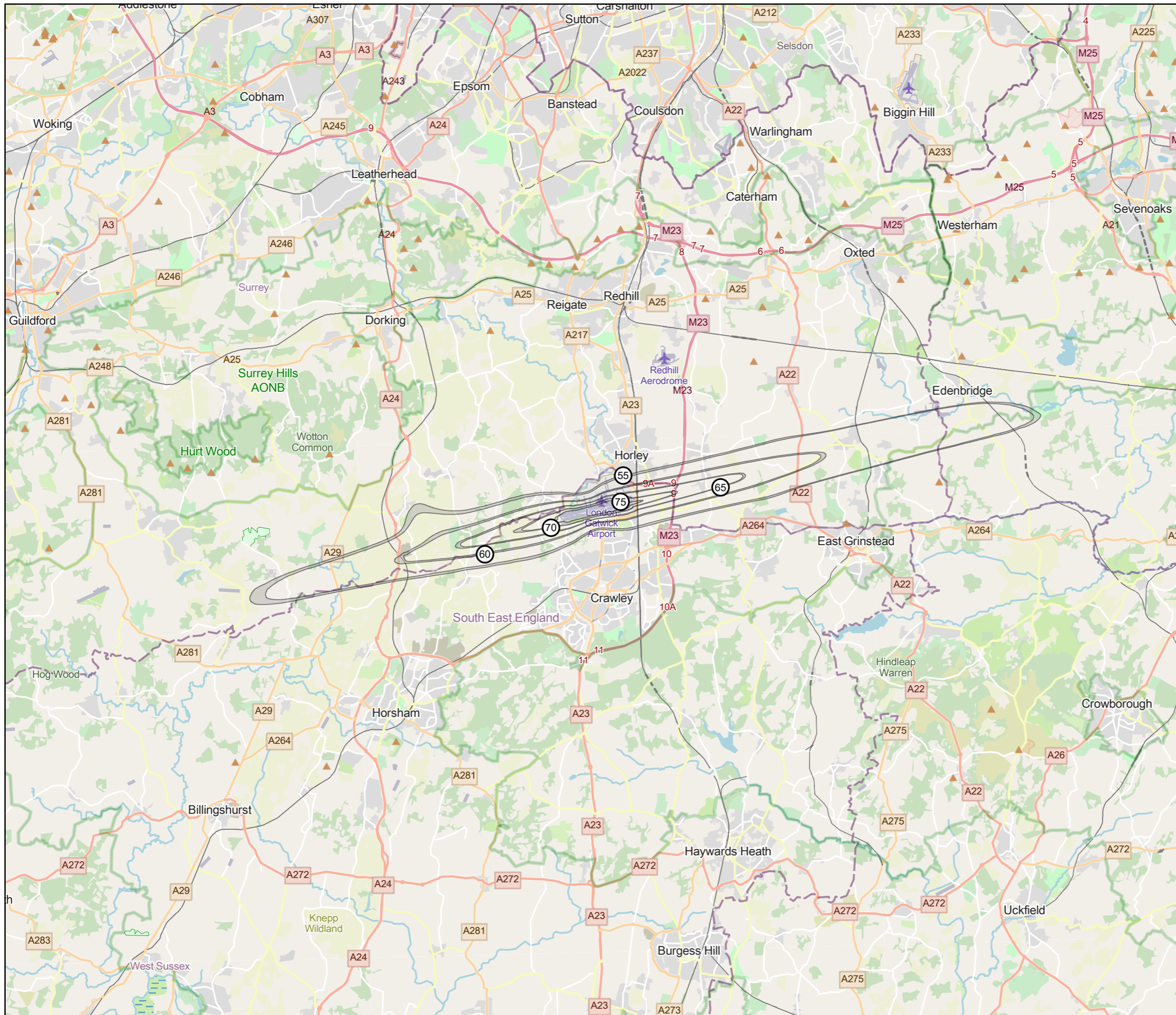
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator



KEY

Central Case to Worst Case Fleet Range

DOCUMENT

PEIR

DRAWING TITLE

2038 Air Noise L_{den} Annual Contours with the Project

DATE

September 2021

ORIENTATION



DRAWING NO.

14.9.38

REVISION

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SM

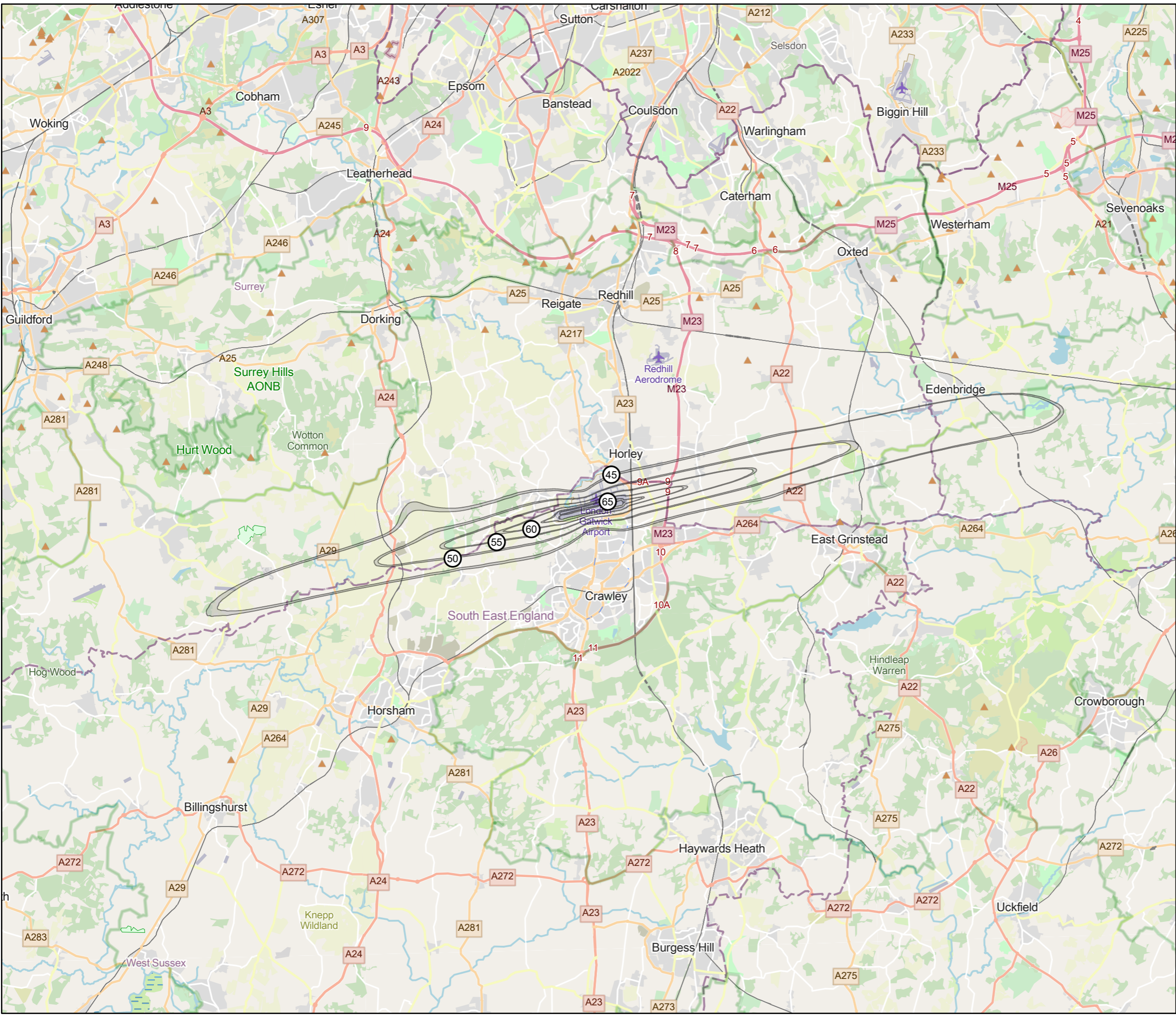
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Datum: OSGB 1936
Projection: Transverse Mercator



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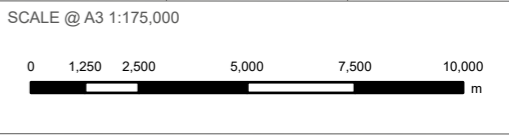
KEY
 Central Case to Worst Case Fleet Range

DOCUMENT
PEIR

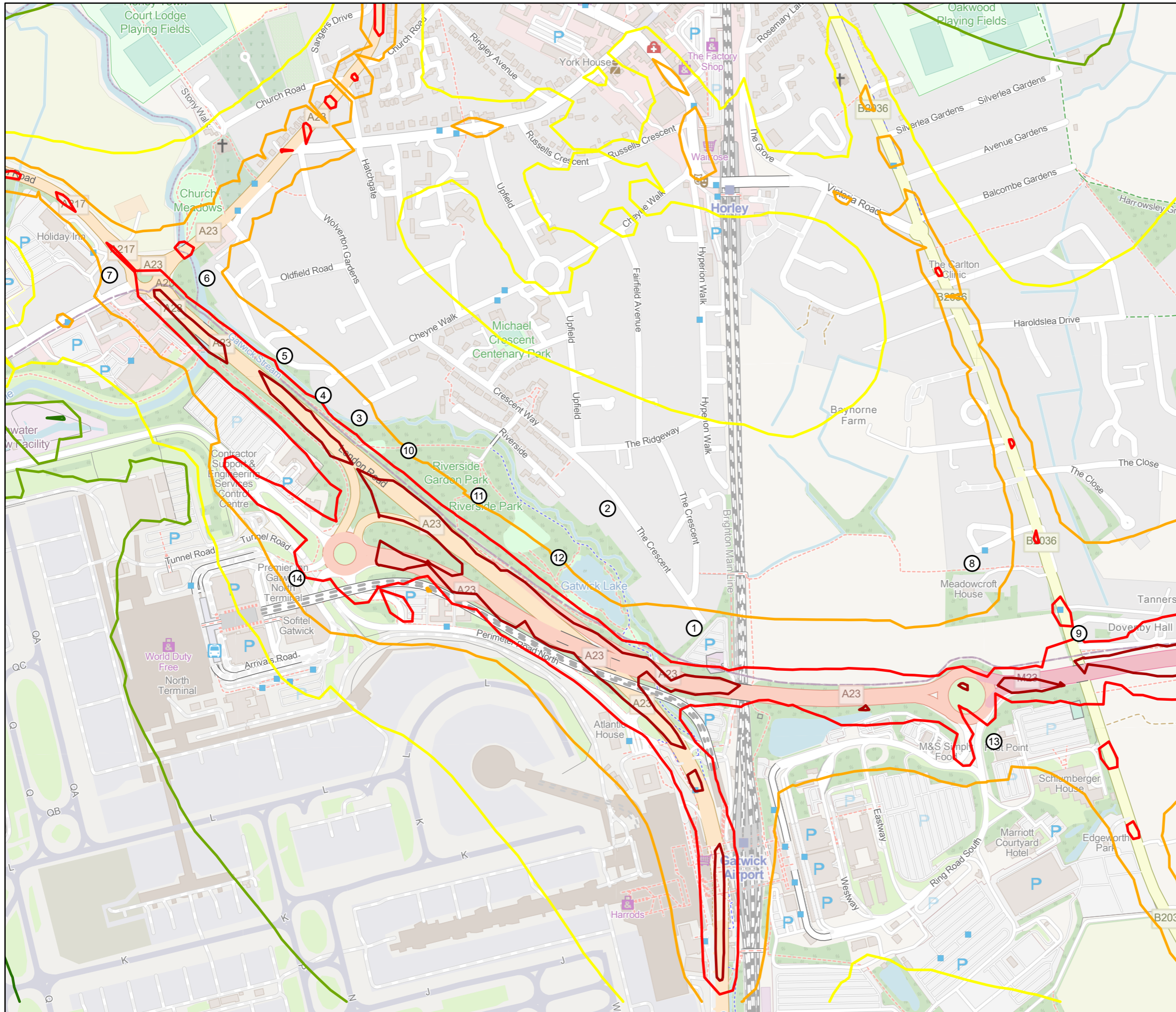
DRAWING TITLE
2038 Air Noise L_{Night} Annual Contours with the Project

DATE
September 2021

ORIENTATION 	DRAWING NO. 14.9.39	REVISION For PEIR Issue
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 Spatial Reference
 Name: British National Grid
 Datum: OSGB 1936
 Projection: Transverse Mercator



KEY

- 55 LA₁₀, 18HR dB
- 60 LA₁₀, 18HR dB
- 65 LA₁₀, 18HR dB
- 70 LA₁₀, 18HR dB
- 75 LA₁₀, 18HR dB
- 80 LA₁₀, 18HR dB
- Receptors

Number Name

- | | |
|----|-----------------------------|
| 1 | The Crescent East |
| 2 | The Crescent West |
| 3 | Woodroyd Gardens |
| 4 | Cheyne Walk |
| 5 | Longbridge Road East |
| 6 | Longbridge Road West |
| 7 | Povey Cross Road |
| 8 | Meadowcroft Close |
| 9 | B2036 Balcombe Road |
| 10 | Riverside Park North |
| 11 | Riverside Park Centre |
| 12 | Riverside Park South |
| 13 | First Point Office Building |
| 14 | Premier Inn |

DOCUMENT

PEIR

DRAWING TITLE

2047 Road Traffic Noise Business as Usual

DATE

September 2021

ORIENTATION



DRAWING NO.

14.9.40

REVISION

For PEIR Issue

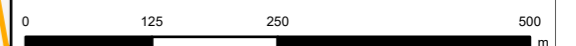
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JS

PM / CHECKED BY

SM

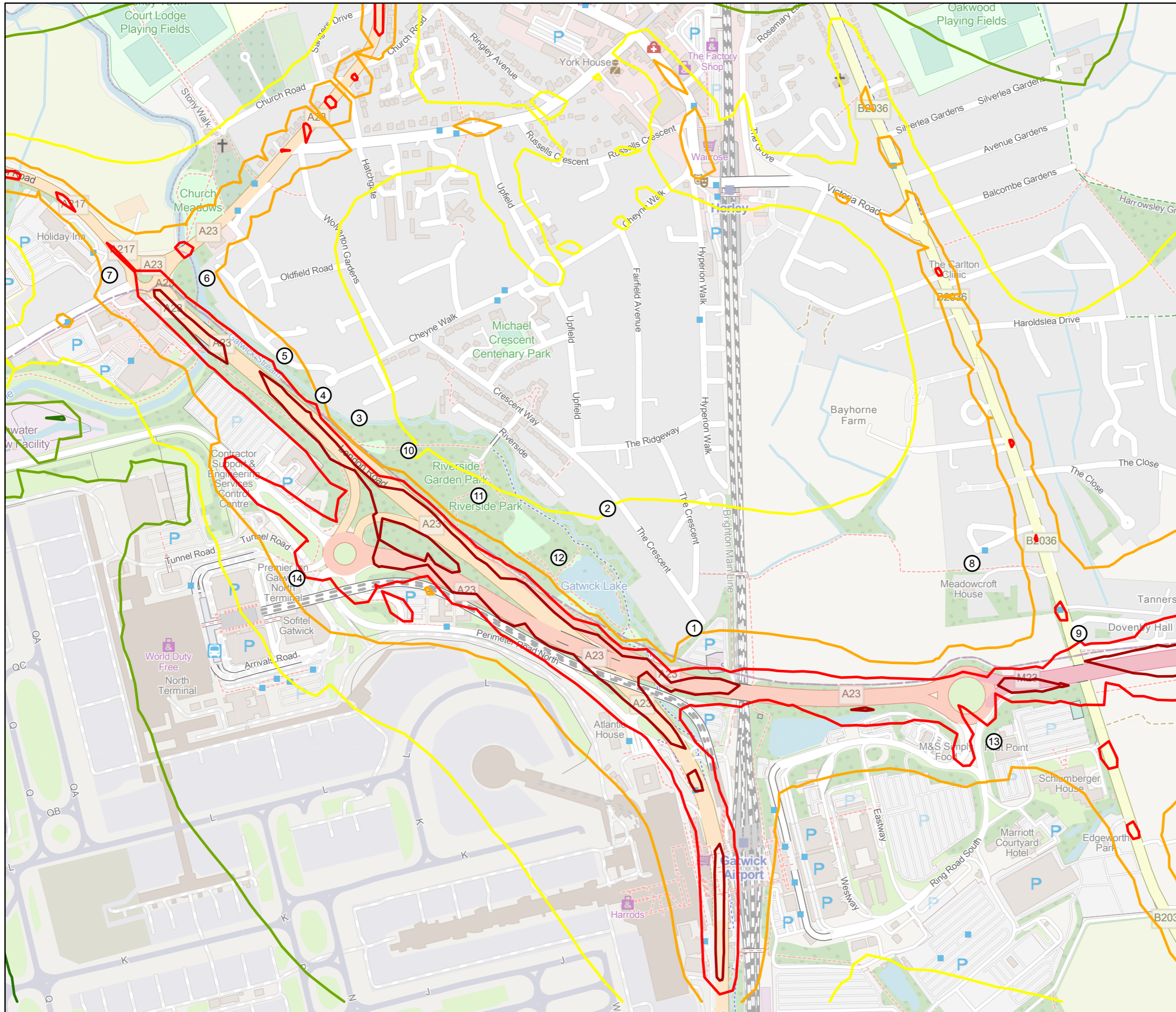
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator



KEY

- 55 LA₁₀, 18HR dB
- 60 LA₁₀, 18HR dB
- 65 LA₁₀, 18HR dB
- 70 LA₁₀, 18HR dB
- 75 LA₁₀, 18HR dB
- 80 LA₁₀, 18HR dB
- Receptors

Number Name

- | | |
|----|-----------------------------|
| 1 | The Crescent East |
| 2 | The Crescent West |
| 3 | Woodroyd Gardens |
| 4 | Cheyne Walk |
| 5 | Longbridge Road East |
| 6 | Longbridge Road West |
| 7 | Povey Cross Road |
| 8 | Meadowcroft Close |
| 9 | B20356 Balcombe Road |
| 10 | Riverside Park North |
| 11 | Riverside Park Centre |
| 12 | Riverside Park South |
| 13 | First Point Office Building |
| 14 | Premier Inn |

DOCUMENT

PEIR

DRAWING TITLE

2047 Road Traffic Noise Level with Project With Mitigation

DATE

September 2021

ORIENTATION



DRAWING NO.

14.9.41

REVISION

For PEIR Issue

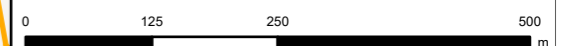
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PM / CHECKED BY

SM

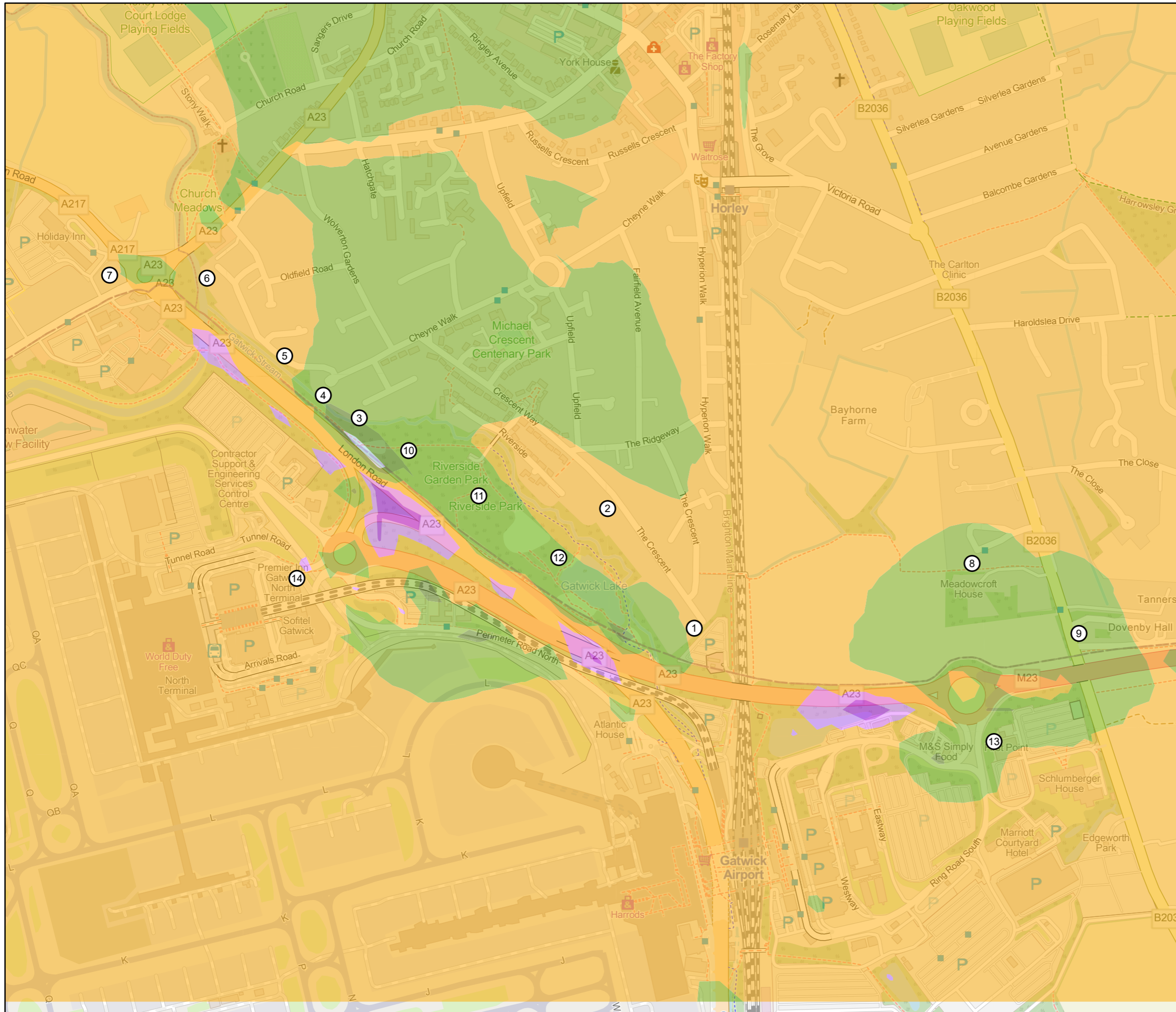
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Spatial Reference
Name: British National Grid
Datum: OSGB 1936
Projection: Transverse Mercator



YOUR LONDON AIRPORT
Gatwick

KEY

- 10 to -5 dB
- 5 to -3 dB
- 3 to 0 dB
- 0 to +3 dB
- +3 to +5 dB
- +5 to +10 dB
- Receptors

Number Name

- | | |
|----|-----------------------------|
| 1 | The Crescent East |
| 2 | The Crescent West |
| 3 | Woodroyd Gardens |
| 4 | Cheyne Walk |
| 5 | Longbridge Road East |
| 6 | Longbridge Road West |
| 7 | Povey Cross Road |
| 8 | Meadowcroft Close |
| 9 | B20356 Balcombe Road |
| 10 | Riverside Park North |
| 11 | Riverside Park Centre |
| 12 | Riverside Park South |
| 13 | First Point Office Building |
| 14 | Premier Inn |

DOCUMENT

PEIR

DRAWING TITLE

2047 Road Traffic Noise Level with Project With Mitigation v 2032 Base

DATE

September 2021

ORIENTATION



DRAWING NO.

14.9.42

REVISION

For PEIR Issue

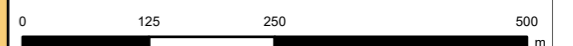
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SM

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Datum: OSGB 1936
Projection: Transverse Mercator