

Updates to ENR 2.2 Section 4 – EN-ROUTE TRANSPONDER MANDATORY ZONES

Instructions for NATS AIM are in Green.

- The TMZs below should be added to ENR 2.2 Section 4 – EN-ROUTE TRANSPONDER MANDATORY ZONES alongside the TMZs currently published in ENR 2.2 Section 4.
- **Lateral limits:** The content below contains no new coordinates. The TMZs share the same lateral boundaries as their associated CTA or TMA. The same coordinates stored in the AURORA database should be used for these TMZs. As the coordinates are already published, all data quality requirements on the DAL 2 data items are met.
- **Vertical limits:** The vertical limits included in the table are those of the **TMZ** and sometimes differ from their associated CTA or TMA. This has been signposted where applicable.

Designation and Lateral Limits	Vertical Limits and Classification	Controlling Authority
<p>ARGYLL CTA 1 TMZ</p> <p>Same coordinates as ARGYLL CTA 1</p> <p>561844N 0054648W 560727N 0050308W 560127N 0044028W 560000N 0044400W 555356N 0045343W 555825N 0051042W 560939N 0055411W 561844N 0054648W.</p>	<p>Same vertical limits and classification as ARGYLL CTA 1</p> <p>FL195</p> <p>_____</p> <p>5500 FT ALT (Class E)</p>	<p>Scottish ACC 127.275 H24</p> <p>Refer to ENR 2.1 for Remarks associated with ARGYLL CTA 1</p>
<p>ARGYLL CTA 2 TMZ</p> <p>Same coordinates as ARGYLL CTA 2</p> <p>564819N 0062031W 561807N 0054423W 561844N 0054648W 560939N 0055411W 562501N 0065609W 563408N 0064847W 562552N 0061508W 564248N 0063539W 564819N 0062031W.</p>	<p>Same vertical limits and classification as ARGYLL CTA 2</p> <p>FL195</p> <p>_____</p> <p>FL 115 (Class E)</p>	<p>Scottish ACC 127.275 H24</p> <p>Refer to ENR 2.1 for Remarks associated with ARGYLL CTA 2</p>
<p>ARGYLL CTA 3 TMZ</p> <p>Same coordinates as ARGYLL CTA 3</p> <p>553039N 0053655W 552543N 0050000W 551527N 0050000W 552057N 0054102W 553039N 0053655W.</p>	<p>Same vertical limits and classification as ARGYLL CTA 3</p> <p>FL195</p> <p>_____</p> <p>FL105 (Class E)</p>	<p>Scottish ACC 127.275 H24</p> <p>Refer to ENR 2.1 for Remarks associated with ARGYLL CTA 3</p>

Designation and Lateral Limits	Vertical Limits and Classification	Controlling Authority
<p>FARNBOROUGH CTA 8 TMZ</p> <p>Same coordinates as FARNBOROUGH CTA 8</p> <p>510957N 0005732W 510602N 0005439W 510047N 0005251W 505435N 0010335W 510420N 0010657W 510636N 0010817W 510957N 0005732W.</p>	<p>Same vertical limits and classification as FARNBOROUGH CTA 8</p> <p>5500 FT ALT _____</p> <p>4500 FT ALT (Class E)</p>	<p>Farnborough APP 125.250 Transit Requests 134.355 Approach Radar</p> <p>Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).</p> <p>Farnborough CTA 8 is a TMZ (Transponder Mandatory Zone). Carriage and operation of a transponder with Mode A code and Mode C altitude (or equivalent Mode S) is mandatory. Provisions for non-equipped aircraft are promulgated by the controlling authority 01252-526015 (ATC-Radar).</p> <p>Refer to ENR 2.1 for Remarks associated with FARNBOROUGH CTA 8.</p>
<p>FARNBOROUGH CTA 9 TMZ</p> <p>Same coordinates as FARNBOROUGH CTA 9</p> <p>505739N 0004104W 505119N 0003419W 505119N 0005457W 505512N 0005908W 505739N 0004104W.</p>	<p>Same vertical limits and classification as FARNBOROUGH CTA 9</p> <p>FL65 _____</p> <p>5500 FT ALT (Class E)</p>	<p>FARNBOROUGH APP 125.250 Transit Requests 134.355 Approach Radar</p> <p>Mon-Fri 0700-2200 (0600-2100); Sat, Sun and PH 0800-2000 (0700-1900).</p> <p>Farnborough CTA 9 is a TMZ (Transponder Mandatory Zone). Carriage and operation of a transponder with Mode A code and Mode C altitude (or equivalent Mode S) is mandatory. Provisions for non-equipped aircraft are promulgated by the controlling authority 01252-526015 (ATC-Radar).</p> <p>Refer to ENR 2.1 for Remarks associated with FARNBOROUGH CTA 9</p>

Designation and Lateral Limits	Vertical Limits and Classification	Controlling Authority
<p>HOLYHEAD CTA 15 TMZ</p> <p>Same coordinates as HOLYHEAD CTA 15</p> <p>540005N 0051032W 535351N 0045602W 534814N 0050951W 534848N 0053000W 535207N 0053000W 540005N 0051032W.</p>	<p>Same vertical limits and classification as HOLYHEAD CTA 15</p> <p>FL195 _____</p> <p>FL75 (Class E)</p>	<p>Scottish ACC H24 123.775</p> <p>Note: Holyhead CTA 15 is a TMZ (Transponder Mandatory Zone). Carriage and operation of a transponder with Mode A code and Mode C altitude (or equivalent Mode S) is mandatory.</p> <p>Refer to ENR 2.1 for Remarks associated with HOLYHEAD CTA 15.</p>
<p>HOLYHEAD CTA 16 TMZ</p> <p>Same coordinates as HOLYHEAD CTA 16</p> <p>540405N 0050040W 535758N 0044548W 535351N 0045602W 540005N 0051032W 540405N 0050040W.</p>	<p>Same vertical limits and classification as HOLYHEAD CTA 16</p> <p>FL145 _____</p> <p>FL75 (Class E)</p>	<p>Scottish ACC H24 123.775</p> <p>Note 1: Holyhead CTA 16 is a TMZ (Transponder Mandatory Zone). Carriage and operation of a transponder with Mode A code and Mode C altitude (or equivalent Mode S) is mandatory.</p> <p>Refer to ENR 2.1 for Remarks associated with HOLYHEAD CTA 16.</p>

Designation and Lateral Limits	Vertical Limits and Classification	Controlling Authority
<p>MORAY CTA 1 TMZ</p> <p>Same coordinates as MORAY CTA 1</p> <p>573706N 0015736W 573556N 0013910W 573333N 0013540W 572422N 0012815W 570417N 0014929W thence anti-clockwise by the arc of a circle radius 10 NM centred on 570531N 0020740W to 570845N 0015019W 572153N 0015835W thence anti-clockwise by the arc of a circle radius 10 NM centred on 571834N 0021602W to 572100N 0023356W 573241N 0023554W 573613N 0021832W 573706N 0015736W.</p>	<p>Same vertical limits and classification as MORAY CTA 1</p> <p>FL195</p> <p>_____</p> <p>4500FT ALT (Class E)</p>	<p>Scottish ACC H24 134.850</p> <p>Refer to ENR 2.1 for Remarks associated with MORAY CTA 1.</p>
<p>MORAY CTA 2 TMZ</p> <p>Same coordinates as MORAY CTA 2</p> <p>574643N 0003720W 573731N 0003007W 572758N 0011242W 572422N 0012815W 573333N 0013540W 573708N 0012004W 574643N 0003720W.</p>	<p>Same vertical limits and classification as MORAY CTA 2</p> <p>FL195</p> <p>_____</p> <p>FL105 (Class E)</p>	<p>Scottish ACC H24 134.850</p> <p>Refer to ENR 2.1 for Remarks associated with MORAY CTA 2</p>
<p>MORAY CTA 3 TMZ</p> <p>Same coordinates as MORAY CTA 3</p> <p>591927N 0011522W 573556N 0013910W 573706N 0015736W 592039N 0013445W 591927N 0011522W.</p>	<p>Same vertical limits and classification as MORAY CTA 3</p> <p>FL195</p> <p>_____</p> <p>FL105 (Class E)</p>	<p>Scottish ACC H24 134.850</p> <p>Refer to ENR 2.1 for Remarks associated with MORAY CTA 3.</p>

Designation and Lateral Limits	Vertical Limits and Classification	Controlling Authority
<p>MORAY CTA 4 TMZ</p> <p>Same coordinates as MORAY CTA 4</p> <p>593033N 0013227W 592921N 0011258W 591927N 0011522W 592039N 0013445W 593033N 0013227W.</p>	<p>Same vertical limits and classification as MORAY CTA 4</p> <p>FL195</p> <p>_____</p> <p>FL75 (Class E)</p>	<p>Scottish ACC H24 134.850</p> <p>Refer to ENR 2.1 for Remarks associated with MORAY CTA 4.</p>
<p>MORAY CTA 5 TMZ</p> <p>Same coordinates as MORAY CTA 5</p> <p>593331N 0013145W 593219N 0011214W 592921N 0011258W 593033N 0013227W 593331N 0013145W.</p>	<p>Same vertical limits and classification as MORAY CTA 5</p> <p>FL195</p> <p>_____</p> <p>FL45 (Class E)</p>	<p>Scottish ACC H24 134.850</p> <p>Refer to ENR 2.1 for Remarks associated with MORAY CTA 5.</p>
<p>MORAY CTA 6 TMZ</p> <p>Same coordinates as MORAY CTA 6</p> <p>582757N 0025607W 573613N 0021832W 573241N 0023554W 581914N 0031000W 582451N 0025723W 582757N 0025607W.</p>	<p>Same vertical limits and classification as MORAY CTA 6</p> <p>FL155</p> <p>_____</p> <p>FL75 (Class E)</p>	<p>Scottish ACC H24 134.850</p> <p>Refer to ENR 2.1 for Remarks associated with MORAY CTA 6.</p>
<p>MORAY CTA 7 TMZ</p> <p>Same coordinates as MORAY CTA 7</p> <p>585837N 0030305W 585632N 0024412W 582451N 0025723W 575213N 0040909W 575449N 0043204W 580345N 0041248W 582356N 0032847W 583014N 0031440W 585837N 0030305W.</p>	<p>Same vertical limits and classification as MORAY CTA 7</p> <p>FL195</p> <p>_____</p> <p>FL75 (Class E)</p>	<p>Scottish ACC H24 134.850</p> <p>Refer to ENR 2.1 for Remarks associated with MORAY CTA 7.</p>

Designation and Lateral Limits	Vertical Limits and Classification	Controlling Authority
<p>MORAY CTA 8 TMZ</p> <p>Same coordinates as MORAY CTA 8</p> <p>575820N 0050530W 574511N 0042339W 575449N 0043204W 575213N 0040909W 573320N 0035256W 571206N 0035820W 571327N 0041634W 572958N 0041230W 573700N 0043424W 574940N 0051447W 575820N 0050530W.</p>	<p>Same vertical limits and classification as MORAY CTA 8</p> <p>FL195</p> <p>_____</p> <p>FL95 (Class E)</p>	<p>Scottish ACC H24 127.275 134.800</p> <p>Refer to ENR 2.1 for Remarks associated with MORAY CTA 8.</p>
<p>MORAY CTA 9 TMZ</p> <p>Same coordinates as MORAY CTA 9</p> <p>581645N 0060617W 575820N 0050530W 574940N 0051447W 580805N 0061540W 581645N 0060617W.</p>	<p>Same vertical limits and classification as MORAY CTA 9</p> <p>FL195</p> <p>_____</p> <p>FL55 Minimum Limit: 5200 FT ALT (Class E)</p>	<p>Scottish ACC H24 127.275</p> <p>Refer to ENR 2.1 for Remarks associated with MORAY CTA 9.</p>
<p>MORAY CTA 10 TMZ</p> <p>Same coordinates as MORAY CTA 10</p> <p>571327N 0041634W 571206N 0035820W 564120N 0040600W 564239N 0042359W 571327N 0041634W.</p>	<p>Same vertical limits and classification as MORAY CTA 10</p> <p>FL195</p> <p>_____</p> <p>FL105 (Class E)</p>	<p>Scottish ACC H24 127.275</p> <p>Refer to ENR 2.1 for Remarks associated with MORAY CTA 10.</p>

Designation and Lateral Limits	Vertical Limits and Classification	Controlling Authority
<p>MORAY CTA 11 TMZ</p> <p>Same coordinates as MORAY CTA 11</p> <p>564239N 0042359W 564120N 0040600W 562708N 0040928W 562827N 0042720W 564239N 0042359W.</p>	<p>Same vertical limits and classification as MORAY CTA 11</p> <p>FL195</p> <p>_____</p> <p>FL125 (Class E)</p>	<p>Scottish ACC H24 127.275</p> <p>Refer to ENR 2.1 for Remarks associated with MORAY CTA 11.</p>
<p>MORAY CTA 12 TMZ</p> <p>Same coordinates as MORAY CTA 12</p> <p>564239N 0042359W 564120N 0040600W 562708N 0040928W 562827N 0042720W 564239N 0042359W.</p>	<p>Same vertical limits and classification as MORAY CTA 12</p> <p>FL125</p> <p>_____</p> <p>FL105 (Class E)</p>	<p>Scottish ACC H24 127.275</p> <p>Refer to ENR 2.1 for Remarks associated with MORAY CTA 12.</p>
<p>MORAY CTA 13 TMZ</p> <p>Same coordinates as MORAY CTA 13</p> <p>562827N 0042720W 562708N 0040928W 561235N 0041258W 560432N 0043253W 562827N 0042720W.</p>	<p>Same vertical limits and classification as MORAY CTA 13</p> <p>FL195</p> <p>_____</p> <p>5500 FT ALT (Class E)</p>	<p>Scottish ACC As Notified. 127.275</p> <p>Refer to ENR 2.1 for Remarks associated with MORAY CTA 13.</p>
<p>MORAY CTA 16 TMZ</p> <p>Same coordinates as MORAY CTA 16</p> <p>595319N 0012703W 595207N 0010721W 593219N 0011214W 593331N 0013145W 595319N 0012703W.</p>	<p>Same vertical limits and classification as MORAY CTA 16</p> <p>FL195</p> <p>_____</p> <p>FL45</p>	<p>Scottish ACC H24 134.850</p> <p>Refer to ENR 2.1 for Remarks associated with MORAY CTA 16.</p>

Designation and Lateral Limits	Vertical Limits and Classification	Controlling Authority
	(Class E)	
<p>MORAY CTA 17 TMZ</p> <p>Same coordinates as MORAY CTA 17</p> <p>572453N 0023020W thence clockwise by the arc of a circle radius 10 NM centred on 571834N 0021602W to</p> <p>572153N 0015835W 572100N 0015802W 571755N 0015605W 571542N 0020528W 571940N 0020701W 571838N 0021602W 572130N 0022334W 571920N 0022624W 572453N 0023020W.</p>	<p>Same vertical limits and classification as MORAY CTA 17</p> <p>FL195</p> <p>_____</p> <p>FL115 (Class E)</p>	<p>Scottish ACC As notified. 124.500</p> <p>Refer to ENR 2.1 for Remarks associated with MORAY CTA 17.</p>
<p>SCOTTISH TMA 1 TMZ</p> <p>Same coordinates as SCOTTISH TMA 1</p> <p>553700N 0042847W 554125N 0041017W 554125N 0025510W 553302N 0042918W 553700N 0042847W</p>	<p>See Controlling Authority Column.</p> <p>FL 100</p> <p>_____</p> <p>6000 FT ALT (Class D)</p>	<p>Scottish ACC H24</p> <p>121.375 124.825 126.300 130.975</p> <p>Within the lateral boundaries of Scottish TMA 1 between 6000 FT ALT and FL 100 is a TMZ (Transponder Mandatory Zone). Carriage and operation of a transponder with Mode A code and Mode C altitude (or equivalent Mode S) is mandatory.</p> <p>Refer to ENR 2.1 for Remarks associated with SCOTTISH TMA 1.</p>

Designation and Lateral Limits	Vertical Limits and Classification	Controlling Authority
<p>SCOTTISH TMA 2 TMZ</p> <p>Same coordinates as SCOTTISH TMA 2</p> <p>554334N 0050000W 553302N 0042918W 554125N 0025510W 552700N 0030000W 550603N 0041419W 551214N 0050234W 551511N 0050000W 554334N 0050000W.</p>	<p>See Controlling Authority Column.</p> <p>FL100</p> <p>_____</p> <p>6000 FT ALT (Class D)</p>	<p>Scottish ACC H24</p> <p>121.375 124.825 126.300 130.975</p> <p>Within the lateral boundaries of Scottish TMA 2 between 6000 FT ALT and FL 100 is a TMZ (Transponder Mandatory Zone). Carriage and operation of a transponder with Mode A code and Mode C altitude (or equivalent Mode S) is mandatory.</p> <p>Refer to ENR 2.1 for Remarks associated with SCOTTISH TMA 2.</p>
<p>SCOTTISH TMA 3 TMZ</p> <p>Same coordinates as SCOTTISH TMA 3</p> <p>561400N 0040926W 561400N 0033259W 560700N 0032938W 560700N 0025608W 560008N 0024849W 554125N 0025510W 554125N 0041017W 553700N 0042847W 554428N 0045035W 554334N 0050000W 555000N 0050000W 560000N 0044400W 561400N 0040926W.</p>	<p>See Controlling Authority Column.</p> <p>FL100</p> <p>_____</p> <p>6000 FT ALT (Class D)</p>	<p>Scottish ACC H24</p> <p>121.375 124.825 126.300 130.975</p> <p>Within the lateral boundaries of Scottish TMA 3 between 6000 FT ALT and FL 100 is a TMZ (Transponder Mandatory Zone). Carriage and operation of a transponder with Mode A code and Mode C altitude (or equivalent Mode S) is mandatory.</p> <p>Refer to ENR 2.1 for Remarks associated with SCOTTISH TMA 3.</p>

Designation and Lateral Limits	Vertical Limits and Classification	Controlling Authority
<p>SCOTTISH TMA 4 TMZ</p> <p>Same coordinates as SCOTTISH TMA 4</p> <p>560008N 0024849W 553100N 0025156W 552700N 0030000W 560008N 0024849W.</p>	<p>See Controlling Authority Column.</p> <p>FL100</p> <p>_____</p> <p>6000 FT ALT (Class D)</p>	<p>Scottish ACC H24</p> <p>121.375 124.825 126.300 130.975</p> <p>Within the lateral boundaries of Scottish TMA 4 between 6000 FT ALT and FL 100 is a TMZ (Transponder Mandatory Zone). Carriage and operation of a transponder with Mode A code and Mode C altitude (or equivalent Mode S) is mandatory.</p> <p>Refer to ENR 2.1 for Remarks associated with SCOTTISH TMA 4</p>
<p>SCOTTISH TMA 5 TMZ</p> <p>Same coordinates as SCOTTISH TMA 5</p> <p>554428N 0045035W 553700N 0042847W 553302N 0042918W 554334N 0050000W 554428N 0045035W.</p>	<p>See Controlling Authority Column.</p> <p>FL100</p> <p>_____</p> <p>6000 FT ALT (Class D)</p>	<p>Scottish ACC H24</p> <p>121.375 124.825 126.300 130.975</p> <p>Within the lateral boundaries of Scottish TMA 5 between 6000 FT ALT and FL 100 is a TMZ (Transponder Mandatory Zone). Carriage and operation of a transponder with Mode A code and Mode C altitude (or equivalent Mode S) is mandatory.</p> <p>Refer to ENR 2.1 for Remarks associated with SCOTTISH TMA 5.</p>