

# Great Britain

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth El=Elevation

|  |     | Tuerksat  | ASTRA      | ASTRA     | ASTRA 1E  | Eutelsat  | Hotbird   | Eutelsat  | Eutelsat | Intelsat   | Atlantic | HISPASAT  |
|--|-----|-----------|------------|-----------|-----------|-----------|-----------|-----------|----------|------------|----------|-----------|
|  |     | 1C,2A     | Eurobird 1 | 1D/3A     | -         | W2        | 2/6/7A/8  | W1        | W3A      | Thor 2 - 3 | Bird 3   | 1C,1D     |
|  |     | 42.0 East | 28.2 East  | 23.5 East | 19.2 East | 16.0 East | 13.0 East | 10.0 East | 7.0 East | 1.0 West   | 5.0 West | 30.0 West |
| <a href="#">Aberdeen</a><br>wL 2.1; B + 57.1   | Az: | 130.9     | 145.2      | 150.3     | 155.1     | 158.7     | 162.2     | 165.7     | 169.2    | 178.7      | 183.5    | 212.2     |
|  | El: | 14.6      | 19.8       | 21.2      | 22.4      | 23.1      | 23.7      | 24.2      | 24.5     | 25.0       | 25.0     | 20.6      |
|  | Sk: | -24.2     | -18.1      | -15.6     | -13.2     | -11.4     | -9.6      | -7.7      | -5.8     | -0.7       | 1.9      | 16.8      |
| <a href="#">Belfast</a><br>wL 5.9; B + 54.6    | Az: | 126.3     | 140.2      | 145.4     | 150.1     | 153.7     | 157.2     | 160.7     | 164.3    | 174.0      | 178.9    | 208.7     |
|  | El: | 14.4      | 20.5       | 22.3      | 23.7      | 24.6      | 25.4      | 26.1      | 26.6     | 27.6       | 27.7     | 24.0      |
|  | Sk: | -27.8     | -21.7      | -19.2     | -16.8     | -14.9     | -13.0     | -11.0     | -9.0     | -3.5       | -0.6     | 16.2      |
| <a href="#">Birmingham</a><br>wL 1.8; B + 52.5 | Az: | 129.6     | 143.9      | 149.2     | 154.1     | 157.9     | 161.5     | 165.2     | 168.9    | 179.0      | 184.0    | 214.0     |
|  | El: | 17.8      | 23.9       | 25.6      | 26.9      | 27.7      | 28.4      | 29.0      | 29.4     | 30.0       | 29.9     | 24.6      |
|  | Sk: | -28.0     | -21.0      | -18.2     | -15.4     | -13.2     | -11.1     | -8.9      | -6.7     | -0.6       | 2.5      | 19.9      |
| <a href="#">Bradford</a><br>wL 1.8; B + 53.8   | Az: | 130.1     | 144.5      | 149.6     | 154.6     | 158.4     | 161.9     | 165.5     | 169.2    | 179.1      | 184.0    | 213.7     |
|  | El: | 16.9      | 22.8       | 24.4      | 25.7      | 26.5      | 27.1      | 27.6      | 28.1     | 28.6       | 28.5     | 23.4      |
|  | Sk: | -26.9     | -20.1      | -17.4     | -14.7     | -12.6     | -10.6     | -8.5      | -6.4     | -0.6       | 2.3      | 19.1      |
| <a href="#">Bristol</a><br>wL 2.6; B + 51.5    | Az: | 128.4     | 142.7      | 148.0     | 152.9     | 156.7     | 160.4     | 164.1     | 167.8    | 178.0      | 183.1    | 213.6     |
|  | El: | 18.1      | 24.5       | 26.2      | 27.7      | 28.6      | 29.3      | 29.9      | 30.4     | 31.1       | 31.1     | 25.8      |
|  | Sk: | -29.2     | -22.2      | -19.3     | -16.5     | -14.2     | -12.1     | -9.8      | -7.6     | -1.3       | 1.9      | 20.1      |
| Cardiff<br>wL:3.16 ;B:+51.4                    | Az: | 127.9     | 142.1      | 147.3     | 152.3     | 156.1     | 159.7     | 163.4     | 167.1    | 177.2      | 182.4    | 212.9     |
|  | El: | 17.8      | 24.3       | 26.1      | 27.5      | 28.4      | 29.2      | 29.8      | 30.3     | 31.0       | 31.1     | 25.9      |
|  | Sk: | -29.4     | -22.5      | -19.7     | -16.9     | -14.6     | -12.5     | -10.3     | -8.0     | -1.7       | 1.5      | 19.8      |
| Chichester<br>wL:0.778 ;B:+50.                 | Az: | 130.0     | 144.5      | 149.8     | 154.9     | 158.8     | 162.4     | 166.2     | 170.0    | 180.3      | 185.4    | 215.8     |
|  | El: | 19.4      | 25.8       | 27.5      | 28.9      | 29.7      | 30.4      | 30.9      | 31.3     | 31.8       | 31.6     | 25.6      |
|  | Sk: | -29.0     | -21.5      | -18.5     | -15.6     | -13.2     | -11.0     | -8.7      | -6.3     | 0.2        | 3.4      | 21.7      |
| Coventry<br>wL:1.5 ;B:+52.42                   | Az: | 129.9     | 144.3      | 149.5     | 154.5     | 158.3     | 161.9     | 165.6     | 169.3    | 179.4      | 184.4    | 214.4     |
|  | El: | 18.0      | 21.1       | 25.8      | 27.0      | 27.9      | 28.6      | 29.1      | 29.5     | 30.1       | 30.0     | 24.5      |
|  | Sk: | -27.9     | -20.9      | -18.0     | -15.2     | -13.0     | -10.9     | -8.7      | -6.5     | -0.4       | 2.7      | 20.2      |
| <a href="#">Dover</a><br>eL 1.3; B + 51.1      | Az: | 132.1     | 146.9      | 152.3     | 157.5     | 161.4     | 165.1     | 168.9     | 172.7    | 183.0      | 188.1    | 218.0     |
|  | El: | 20.3      | 26.3       | 27.9      | 29.1      | 29.9      | 30.5      | 30.9      | 31.3     | 31.5       | 31.2     | 24.6      |
|  | Sk: | -27.8     | -20.1      | -17.0     | -13.9     | -11.6     | -9.3      | -7.0      | -4.6     | 1.9        | 5.1      | 22.7      |
| <a href="#">Edinburgh</a><br>wL 3.2; B + 56.0  | Az: | 129.4     | 143.6      | 148.8     | 153.6     | 157.2     | 160.7     | 164.2     | 167.7    | 177.3      | 182.2    | 211.4     |
|  | El: | 14.8      | 20.4       | 21.9      | 23.2      | 24.0      | 24.6      | 25.2      | 25.6     | 26.2       | 26.2     | 21.9      |
|  | Sk: | -25.6     | -19.4      | -16.9     | -14.4     | -12.5     | -10.7     | -8.8      | -6.8     | -1.5       | 1.2      | 16.9      |

|  |     |       |       |       |       |       |       |       |       |       |       |       |
|--|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <a href="#">Glasgow</a><br>wL 4.2; B + 55.9    | Az: | 128.4 | 142.5 | 147.6 | 152.4 | 156.0 | 159.5 | 163.0 | 166.5 | 176.1 | 180.9 | 210.2 |
|  | El: | 14.4  | 20.1  | 21.7  | 23.0  | 23.8  | 24.5  | 25.1  | 25.6  | 26.3  | 26.4  | 22.3  |
|  | Sk: | -26.0 | -19.9 | -17.5 | -15.1 | -13.2 | -11.3 | -9.4  | -7.5  | -2.2  | 0.5   | 16.4  |
| Greenwich<br>eL:0 ;B:+51.48                    | Az: | 131.0 | 145.6 | 150.9 | 156.0 | 159.9 | 156.0 | 167.3 | 171.1 | 181.3 | 186.4 | 216.4 |
|  | El: | 19.4  | 25.5  | 27.2  | 28.4  | 29.2  | 28.4  | 30.3  | 30.7  | 31.1  | 30.9  | 24.7  |
|  | Sk: | -28.0 | -20.6 | -17.6 | -14.7 | -12.4 | -14.7 | -7.9  | -5.5  | 0.8   | 4.0   | 21.7  |
| <a href="#">Iverness</a><br>wL 4.2; B + 57.5   | Az: | 129.0 | 143.0 | 148.1 | 152.8 | 156.4 | 159.8 | 163.3 | 166.8 | 176.2 | 180.9 | 209.8 |
|  | El: | 13.4  | 18.8  | 20.3  | 21.5  | 22.2  | 22.9  | 23.4  | 23.9  | 24.5  | 24.6  | 20.8  |
|  | Sk: | -24.7 | -18.9 | -16.5 | -14.2 | -12.4 | -10.7 | -8.9  | -7.1  | -2.0  | 0.5   | 15.5  |
| Kingston upon H<br>wL:0.33 ;B:+53.7            | Az: | 131.5 | 146.0 | 151.3 | 156.3 | 160.0 | 163.6 | 167.3 | 170.9 | 180.8 | 185.8 | 215.2 |
|  | El: | 17.6  | 23.4  | 24.9  | 26.1  | 26.8  | 27.4  | 27.9  | 28.3  | 28.6  | 28.5  | 22.9  |
|  | Sk: | -26.3 | -19.3 | -16.5 | -13.8 | -11.7 | -9.6  | -7.5  | -5.3  | 0.5   | 3.4   | 20.0  |
| <a href="#">Leeds</a><br>wL 1.6; B + 53.8      | Az: | 130.3 | 144.7 | 149.9 | 154.8 | 158.6 | 162.1 | 165.8 | 169.4 | 179.3 | 184.2 | 213.8 |
|  | El: | 17.0  | 22.8  | 24.4  | 25.7  | 26.5  | 27.1  | 27.6  | 28.0  | 28.5  | 28.5  | 23.3  |
|  | Sk: | -26.8 | -20.0 | -17.3 | -14.6 | -12.5 | -10.5 | -8.4  | -6.3  | -0.4  | 2.5   | 19.2  |
| <a href="#">Liverpool</a><br>wL 2.9; B + 53.4  | Az: | 128.8 | 143.1 | 148.3 | 153.2 | 156.9 | 160.4 | 164.1 | 167.7 | 177.6 | 182.6 | 212.5 |
|  | El: | 16.6  | 22.7  | 24.4  | 25.7  | 26.6  | 27.3  | 27.8  | 28.3  | 29.0  | 29.0  | 24.1  |
|  | Sk: | -27.7 | -21.0 | -18.3 | -15.6 | -13.5 | -11.5 | -9.4  | -7.3  | -1.4  | 1.6   | 18.7  |
| Leicester<br>wL:1.08 ;B:+52.6                  | Az: | 130.4 | 144.8 | 150.1 | 155.1 | 158.9 | 162.5 | 166.2 | 169.9 | 179.9 | 184.9 | 214.8 |
|  | El: | 18.1  | 24.1  | 25.7  | 27.0  | 27.8  | 28.4  | 29.0  | 29.4  | 29.8  | 29.7  | 24.2  |
|  | Sk: | -27.6 | -20.5 | -17.6 | -14.8 | -12.6 | -10.5 | -8.4  | -6.1  | -0.1  | 3.0   | 20.3  |
| <a href="#">London</a><br>wL 0.2; B + 51.5     | Az: | 130.8 | 145.4 | 150.7 | 155.8 | 159.7 | 163.4 | 167.1 | 170.9 | 181.1 | 186.2 | 216.2 |
|  | El: | 19.3  | 25.4  | 27.0  | 28.3  | 29.1  | 29.8  | 30.3  | 30.7  | 31.1  | 30.9  | 24.8  |
|  | Sk: | -28.1 | -20.7 | -17.7 | -14.8 | -12.5 | -10.3 | -8.0  | -5.7  | 0.6   | 3.8   | 21.6  |
| <a href="#">Manchester</a><br>wL 2.3; B + 53.5 | Az: | 129.5 | 143.8 | 149.0 | 154.0 | 157.7 | 161.3 | 164.9 | 168.5 | 178.4 | 183.4 | 213.2 |
|  | El: | 16.9  | 22.9  | 24.5  | 25.8  | 26.6  | 27.3  | 27.9  | 28.3  | 28.9  | 28.9  | 23.8  |
|  | Sk: | -27.3 | -20.6 | -17.9 | -15.2 | -13.1 | -11.1 | -9.0  | -6.8  | -1.0  | 2.0   | 19.0  |
| <a href="#">Newcastle</a><br>wL 1.6; B + 55.0  | Az: | 130.7 | 145.0 | 150.2 | 155.1 | 158.8 | 162.4 | 165.9 | 169.5 | 179.3 | 184.1 | 213.4 |
|  | El: | 16.2  | 21.8  | 23.3  | 24.5  | 25.3  | 25.9  | 26.4  | 26.8  | 27.3  | 27.2  | 22.3  |
|  | Sk: | -25.8 | -19.2 | -16.5 | -14.0 | -12.0 | -10.0 | -8.0  | -6.0  | -0.4  | 2.4   | 18.4  |
| <a href="#">Norwich</a><br>eL 1.3; B + 52.6    | Az: | 132.7 | 147.4 | 152.8 | 157.9 | 161.7 | 165.4 | 169.1 | 172.8 | 182.9 | 187.9 | 217.4 |
|  | El: | 19.2  | 24.9  | 26.4  | 27.6  | 28.3  | 28.9  | 29.3  | 29.6  | 29.8  | 29.6  | 23.3  |
|  | Sk: | -26.5 | -19.1 | -16.1 | -13.2 | -11.0 | -8.8  | -6.6  | -4.3  | 1.8   | 4.8   | 21.7  |
| <a href="#">Nottingham</a><br>wL 1.3; B + 52.9 | Az: | 130.2 | 144.6 | 149.9 | 154.9 | 158.7 | 162.3 | 165.9 | 169.6 | 179.6 | 184.6 | 214.5 |
|  | El: | 17.8  | 23.7  | 25.3  | 26.6  | 27.5  | 28.1  | 28.6  | 29.1  | 29.6  | 29.5  | 24.0  |

|                               |     |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                               | Sk: | -27.4 | -20.4 | -17.6 | -14.8 | -12.7 | -10.6 | -8.4  | -6.2  | -0.2  | 2.8   | 20.0  |
| <a href="#">Plymouth</a>      | Az: | 126.5 | 140.5 | 145.7 | 150.7 | 154.5 | 158.1 | 161.8 | 165.6 | 175.8 | 181.0 | 212.1 |
| wL 4.2; B + 50.4              | El: | 17.9  | 24.7  | 26.6  | 28.2  | 29.2  | 30.0  | 30.7  | 31.3  | 32.2  | 32.3  | 27.3  |
|                               | Sk: | -30.8 | -23.9 | -21.0 | -18.2 | -15.9 | -13.8 | -11.5 | -9.1  | -2.6  | 0.7   | 19.8  |
| <a href="#">Portsmouth</a>    | Az: | 129.6 | 144.1 | 149.4 | 154.5 | 158.3 | 162.0 | 165.8 | 169.6 | 179.9 | 185.0 | 215.5 |
| wL 1.1; B + 50.8              | El: | 19.3  | 25.6  | 27.4  | 28.7  | 29.6  | 30.3  | 30.9  | 31.3  | 31.8  | 31.7  | 25.8  |
|                               | Sk: | -29.1 | -21.8 | -18.8 | -15.8 | -13.5 | -11.2 | -8.9  | -6.6  | -0.1  | 3.2   | 21.5  |
| <a href="#">Sheffield</a>     | Az: | 130.2 | 144.6 | 149.9 | 154.8 | 158.6 | 162.1 | 165.8 | 169.5 | 179.4 | 184.4 | 214.1 |
| wL 1.5; B + 53.4              | El: | 17.3  | 23.2  | 24.8  | 26.1  | 26.9  | 27.6  | 28.1  | 28.5  | 29.0  | 28.9  | 23.7  |
|                               | Sk: | -27.1 | -20.2 | -17.4 | -14.7 | -12.6 | -10.5 | -8.4  | -6.3  | -0.4  | 2.6   | 19.5  |
| Southampton                   | Az: | 129.4 | 143.8 | 149.1 | 154.2 | 158.0 | 161.7 | 165.5 | 169.3 | 179.5 | 184.7 | 215.1 |
| wL:1.38 ;B:+50.9              | El: | 19.1  | 25.5  | 27.2  | 28.6  | 29.4  | 30.1  | 30.7  | 31.2  | 31.7  | 31.6  | 25.8  |
|                               | Sk: | -29.2 | -21.9 | -18.9 | -15.9 | -13.6 | -11.4 | -9.1  | -6.8  | -0.3  | 2.9   | 21.3  |
| <a href="#">Swansea</a>       | Az: | 127.1 | 141.2 | 146.4 | 151.3 | 155.1 | 158.7 | 162.4 | 166.1 | 176.2 | 181.3 | 211.9 |
| wL 4.0; B + 51.6              | El: | 17.3  | 23.8  | 25.6  | 27.1  | 28.1  | 28.8  | 29.5  | 30.1  | 30.9  | 31.0  | 26.1  |
|                               | Sk: | -29.7 | -22.9 | -20.1 | -17.3 | -15.2 | -13.1 | -10.9 | -8.6  | -2.4  | 0.8   | 19.2  |
| <a href="#">Wolverhampton</a> | Az: | 129.2 | 143.6 | 148.8 | 153.7 | 157.5 | 161.1 | 164.8 | 168.5 | 178.5 | 183.5 | 213.6 |
| wL 2.2; B + 52.6              | El: | 17.5  | 23.6  | 25.3  | 26.7  | 27.5  | 28.2  | 28.8  | 29.3  | 29.9  | 29.8  | 24.6  |
|                               | Sk: | -28.1 | -21.2 | -18.3 | -15.6 | -13.4 | -11.3 | -9.2  | -7.0  | -0.9  | 2.1   | 19.6  |
| York                          | Az: | 130.9 | 145.3 | 150.5 | 155.4 | 159.2 | 162.8 | 166.4 | 170.0 | 179.9 | 184.8 | 214.4 |
| wL:1.08 ;B:+53.9              | El: | 17.2  | 22.9  | 24.5  | 25.7  | 26.5  | 27.1  | 27.6  | 28.0  | 28.4  | 28.3  | 23.0  |
|                               | Sk: | -26.4 | -19.6 | -16.8 | -14.2 | -12.1 | -10.0 | -8.0  | -5.8  | -0.1  | 2.9   | 19.4  |