# Guidance Material for Aeronautical Chart – ICAO 1 : 500 000

Version 1.6

ICAO Chart Harmonization Focus Group, EUROCONTROL

| | |
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| Author: | Wolfgang Schrom |
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**Changes**

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|---|---|---|---|
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| 1.1 | 30-JUN-2009 | All | Results of the meeting Brussels 3/4 JUN 09 |
| 1.2 | 07-SEP-2009 | All | Results of the meeting Brussels 3/4 JUN 09 |
| 1.3 | 15-MAR-2010 | All | Results of the meeting Prague 10/11 NOV 09 |
| 1.4 | 19-JUL-2010 | 1-5, 12, 14-22 | Results of the meeting Warsaw 23/24 MAR 10 |
| 1.5 | 20-JUL-2011 | All | Results of the meeting Zuerich 04/05 APR 11 |
| 1.6 | 14-NOV-2011 | 1-12, 14-15, 23-24 | Results of the meeting Langen 18/19 OCT 11 |

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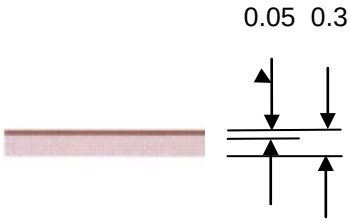
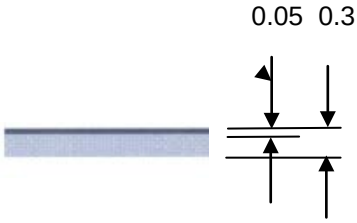
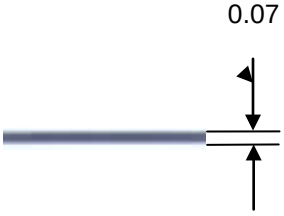
# 1 Introduction

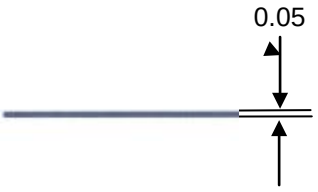
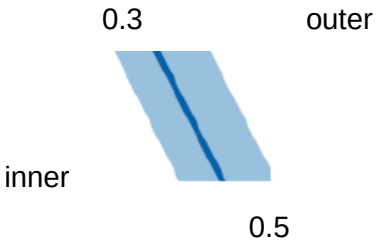
The Guidance Material for Aeronautical Charts ICAO 1 : 500 000 has been developed to harmonize and standardize charts within Europe. It contains information to the documents ICAO Annex 4 and ICAO Document 8697 (Aeronautical Chart manual).

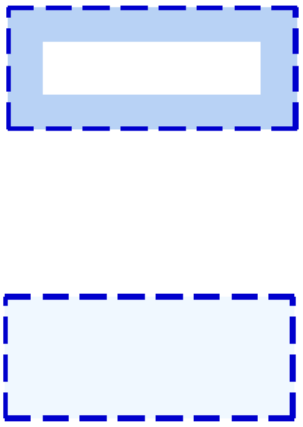
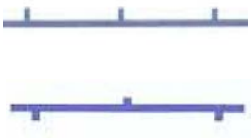
Deviations to ICAO Annex 4 are conclusions of the ICAO Chart Harmonization Focus Group. A proposal will be worked out and send out via EUROCONTROL.

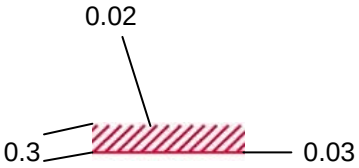
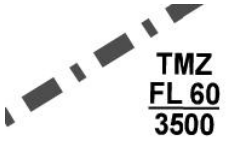
The content of this material are conclusions of the ICAO Chart Harmonization Focus Group and will be used for the chart production of Aeronautical Charts ICAO 1 : 500 000.

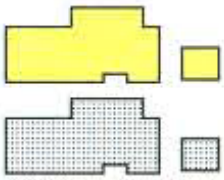
Participants of the ICAO Chart Harmonization Focus Group of the following States worked out this document: Belgium, Czech Republic, Finland, France, Germany, Ireland, Italy, Latvia, Netherlands, Poland, Serbia and Montenegro, Slovak Republic, Slovenia, Switzerland, United Kingdom, EUROCONTROL and Jeppesen.

| *Guidance* | *Annex 4 Reference*<br><br>*Appendix 2* | *Details* | *Illustration / Recommended Size (cm)* |
|---|---|---|---|
| **2.1** | **17.9**<br>126 | **Airspace classifications** | |
| 2.1.1 | | Airspace class A | |
| 2.1.1.1 | | Airspace class A shall be displayed by a magenta line and a magenta band according to ICAO Annex 4, App 2-19. |  |
| 2.1.2 | | Airspace class B, C and D | |
| 2.1.2.1 | | Airspace class B, C and D shall be displayed by a blue line and a blue band according to ICAO Annex 4, App 2-19. |  |
| 2.1.3 | | Airspace class E | |
| 2.1.3.1 | | Airspace class E shall be displayed by a blue line.<br><br>It is recommended to display the line thicker than for airspace A, B, C and D.<br><br>*Note.- Depiction deviates from ICAO Annex 4. For explanation see 3.0.1* |  |
| 2.1.4 | | Airspace class F | |
| 2.1.4.1 | | Airspace class F shall be displayed by a blue line according to ICAO Annex 4, App 2-19. |  |

| *Guidance* | *Annex 4 Reference*<br><br>*Appendix 2* | *Details* | *Illustration / Size (cm)* |
|---|---|---|---|
| 2.1.5 | 17.9<br><br>126 | Airspace class G | |
| 2.1.5.1 | | Airspace class G shall be displayed by a blue line.<br><br>*Note.- Depiction deviates from ICAO Annex 4. For explanation see 3.0.2* |  |
| **2.2** | | **Airspace classifications - sectors** | |
| 2.2.1 | | Airspace sectors shall be displayed in the same way as outer boundaries, refer to 2.1<br><br>It is recommended to display the band for the outer boundary of airspace A, B, C and D thicker than for sectors located within the airspace. |  |
| **2.3** | **17.9**<br><br>116 | **Air traffic services – control zone** | |
| 2.3.1 | | Airspace CTR class A | |
| 2.3.1.1 | | Airspace CTR shall be displayed:<br><br>by a blue dashed line and a magenta band<br><br>or<br><br>by a blue dashed line and a magenta shading covering the whole CTR.<br><br>It is recommended to display the shading brighter as the band to make other information | <br> |

| | | | |
|---|---|---|---|
| | | better readable. | |
| *Guidance* | *Annex 4 Reference*<br><br>*Appendix 2* | *Details* | *Illustration* |
| 2.3.2 | 17.9<br><br>116 | Airspace CTR class B, C or D | |
| 2.3.2.1 | | Airspace CTR shall be displayed:<br><br>by a blue dashed line and a blue band<br><br>or<br><br>by a blue dashed line and a blue shading covering the whole CTR.<br><br>It is recommended to display the shading brighter as the band to make other information better readable. |  |
| **2.4** | **17.9**<br><br>112 | **Air traffic services – aerodrome traffic zone** | |
| 2.4.1 | | Aerodrome traffic zone shall be displayed by a blue dotted line according to ICAO Annex 4, App 2-18. |  |
| **2.5** | **17.9**<br><br>111 | **Air traffic services – flight information region** | |
| 2.5.1 | | Flight information region shall be displayed by a blue ticked line according to ICAO Annex 4, App 2-18.<br><br>It is recommended to display the ticks in both directions where Flight information regions are located. |  |

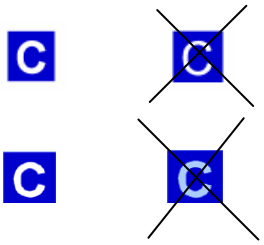
| *Guidance* | *Annex 4 Reference*<br><br>*Appendix 2* | *Details* | *Illustration / Size (cm)* |
|---|---|---|---|
| **2.6** | **17.9**<br><br>128 | **Airspace restrictions** | |
| 2.6.1 | | Restricted airspace<br>(TRA, TSA, prohibited, restricted or danger area) | |
| 2.6.1.1 | | Airspace restrictions like TRA, TSA, prohibited, restricted and danger areas shall be displayed with a red line and a magenta hatched band.<br><br>*Note 1.- Depiction deviates from ICAO Annex 4. For explanation see 3.0*<br><br>*Note 2 – State exceptions concerning TRA and TSA: For explanation see 3.0.3* |  |
| **2.7** | **17.9**<br><br>proposal | **Transponder mandatory zone** | |
| 2.7.1 | | Transponder mandatory zones should be displayed with a TMZ tag. A thick dark grey dashed-dotted line should be used. |  |
| **2.8** | | **Flight information service** | |
| 2.8.1 | | Flight information service shall be displayed by a green dashed line, if published on the chart. |  |
| **2.9** | | **Nature reserved areas** | |
| 2.9.1 | | Nature reserved areas shall be displayed by a green line. |  |

| *Guidance* | *Annex 4 Reference*<br><br>*Appendix 2* | *Details* | *Illustration* |
|---|---|---|---|
| **2.10** | **17.7.1** | **Built-up-areas** | |
| 2.10.1 | 47-49 | City or large town | |
| 2.10.1.1 | | Cities and large towns shall be displayed by a yellow or grey colour according to ICAO Annex 4.<br><br>It is recommended to display large cities in a yellow colour. |  |
| 2.10.2 | | Town | |
| 2.10.2.1 | | Towns shall be displayed by a black circle according to ICAO Annex 4. |  |
| 2.10.3 | | Village | |
| 2.10.3.1 | | Villages shall be displayed by a small black circle according to ICAO Annex 4. |  |
| **2.11** | **17.7.3** | **Highways and roads** | |
| 2.11.1 | 57-59 | Dual highway | |
| 2.11.1.1 | | Dual highways should be displayed by a red colour according to ICAO Annex 4. |  |
| 2.11.2 | | Primary road | |
| 2.11.2.1 | | Primary roads should be displayed by a red colour according to ICAO Annex 4. |  |

| *Guidance* | *Annex 4 Reference*<br><br>*Appendix 2* | *Details* | *Illustration* |
|---|---|---|---|
| 2.11.3 | 17.7.3<br><br>57-59 | Secondary road | |
| 2.11.3.1 | | Secondary roads should be displayed by a red colour according to ICAO Annex 4.<br><br>It is recommended to display the colour brighter as aeronautical data to avoid misreading. |  |
| **2.12** | **17.7.2**<br><br>51 | **Railroad** | |
| 2.12.1 | | Railroads shall be shown according to Annex 4. |  |
| **2.13** | **17.7.8**<br><br>Manual | **Shading** | |
| 2.13.1 | | Shading should be shown according to ICAO Annex 4.<br><br>It is recommended to follow the depiction as displayed in the Chart Manual 8697. |  |

| *Guidance* | *Annex 4 Reference*<br><br>*Appendix 2* | *Details* | *Illustration* |
|---|---|---|---|
| **2.14** | **17.7.12** | **Wood** | |
| 2.14.1 | | Wooded areas should be shown according to ICAO Annex 4.<br><br>A green colour shall be used when wood is displayed on the chart. |  |
| **2.15** | **17.7.6**<br><br>19-46 | **Hydrography** | |
| 2.15.1 | | Hydrography shall be shown according to ICAO Annex 4. | See Annex 4 |
| **2.16** | **17.7.4** | **Landmarks** | |
| 2.16.1 | | Landmarks shall be shown according to ICAO Annex 4. | See Annex 4 |

| *Guidance* | *Annex 4 Reference*<br><br>*Appendix 2* | *Details* | *Illustration* |
|---|---|---|---|
| **2.17** | **17.9.5**<br><br>127 | **Indication of lower/upper level of airspace** | |
| 2.17.1 | | GND | |
| 2.17.1.1 | | The abbreviation GND shall be used when airspace is starting at ground level. | 2000 AGL<br>GND |
| 2.17.2 | | AGL | |
| 2.17.2.1 | | The abbreviation AGL shall be used when airspace is related to a defined height above ground.<br>AGL values shall be displayed with the abbreviation “AGL” on the chart. | 8000 AGL<br>2000 AGL |
| 2.17.3 | | AMSL / MSL | |
| 2.17.3.1 | | The abbreviation AMSL shall be used instead of MSL when airspace is related to a defined altitude above MSL.<br><br>The abbreviation AMSL shall be omitted (to have more space on the chart for other information) but it has to be depicted clearly in the legend that AMSL is used. | 8000<br>2000 |
| 2.17.4 | | AMSL / AGL | |
| 2.17.4.1 | | The abbreviation AMSL shall be omitted and the abbreviation AGL shall be shown on the chart when both values are used for the same airspace. | 8000<br>2000<br>or<br>1000 AGL |
| 2.17.5 | | Abbreviation for feet “ft” or metres “m” | |
| 2.17.5.1 | | The abbreviation “ft” or “m” shall be omitted on the chart but it has to be depicted clearly in the legend which values are used. | 800 AGL<br><br>~~800 m AGL~~ ~~800 ft AGL~~ |

| *Guidance* | *Annex 4 Reference*<br><br>*Appendix 2* | *Details* | *Illustration* |
|---|---|---|---|
| **2.18** | **17.9.5**<br><br>127 | **Airspace tag** | |
| 2.18.1 | | Airspace tag shall be displayed with a bold letter for a better readability.<br><br>Airspace tag shall be masked out for a better readability. |  |
| 2.18.2 | | Airspace tag class A shall be displayed squared with a red inverted colour according to ICAO Annex 4 App 2-19 |  |
| 2.18.3 | | Airspace tag class B, C, D, E, F and G shall be displayed squared with a blue inverted colour according to ICAO Annex 4 App 2-19 |  |
| **2.19** | | **Airspace text line/text box** | |
| 2.19.1 | | Layout of the Text line | |
| 2.19.1.1 | | The text line should be displayed with the callsign and the frequency. The values of the lower/upper limit and the tag should be displayed along the airspace border or as a separate box. |  |
| 2.19.2 | | Layout of the Text box | |
| 2.19.2.1 | | The text box should be displayed with the values of the lower/upper limit and the tag along the airspace border or as a separate box. Follow cartographic rules for the best placement and legibility. |  |

| *Guidance* | *Annex 4 Reference*<br><br>*Appendix 2* | *Details* | *Illustration* |
|---|---|---|---|
| **2.20** | **17.9.5** | **Airspace name** | |
| 2.20.1 | 127 | Airspace name should be shown if necessary. |  |
| **2.21** | **17.9.5**<br><br>proposal | **Indication of upper level of airspace on the chart** | |
| 2.21.1 | | The upper limit of the airspace displayed on the chart should be around FL 100.<br><br>In special cases e.g. due to high terrain, a higher level of the airspace might be necessary.<br><br>The upper limit of the chart should be displayed on the title/legend prominently |  |
| **2.22** | **17.9.2** | **Aerodrome symbols** | |
| 2.22.1 | 84-94 | Aerodrome symbols shall be displayed according to ICAO Annex 4, App 2-16 | |
| 2.22.1.1 | | Civil Land |  |
| 2.22.1.2 | | Civil Water |  |
| 2.22.1.3 | | Military Land |  |
| 2.22.1.4 | | Military Water |  |

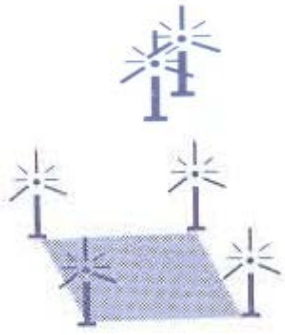
| *Guidance* | *Annex 4 Reference*<br><br>*Appendix 2* | *Details* | *Illustration* |
|---|---|---|---|
| 2.22.1.5 | 17.9.2<br><br>84-94 | Joint civil and military Land |  |
| 2.22.1.6 | | Joint civil and military Water |  |
| 2.22.1.7 | | Emergency aerodrome or aerodrome with no facilities |  |
| 2.22.1.8 | | Abandoned or closed aerodrome<br><br>It is recommended to display the crossed line thinner as a runway pattern. The line should be extended to the circle.<br><br>*Note.- Depiction deviates from ICAO Annex 4. For explanation see 3.0.4* |  |
| 2.22.1.9 | | Sheltered anchorage |  |
| 2.22.1.10 | | Heliport |  |
| **2.23** | **17.9.2** | **Runway pattern** | |
| 2.23.1 | 95 | Runway pattern shall be displayed according to ICAO Annex 4, App 2-16 when classified as a major or international airport. |  |
| 2.23.2 | | Paved runways shall be displayed with a solid line.<br><br>Unpaved runways shall be displayed with a encircled line.<br><br>Runway pattern shall be displayed together with the aerodrome symbol when not classified as a major or international airport. |  |

| *Guidance* | *Annex 4 Reference*<br><br>*Appendix 2* | *Details* | *Illustration* |
|---|---|---|---|
| **2.24** | **17.9.2** | **Aerodrome text** | |
| 2.24.1 | 96 | Aerodrome Name | |
| 2.24.1.1 | | The aerodrome name shall be displayed according to ICAO Annex 4, App 2-17. | LIVINGSTONE |
| 2.24.2 | | Aerodrome elevation | |
| 2.24.2.1 | | The elevation shall be displayed in bold according to ICAO Annex 4, App 2-17.<br><br>The units of measurement (metres or feet) shall be omitted on the chart but it has to be explained clearly in the legend which values are used.<br><br>The reference point (AMSL or Elev) shall be omitted on the chart but it has to be explained clearly in the legend which reference point is used. | **357** |
| 2.24.3 | | Runway length | |
| 2.24.3.1 | | The length of the longest runway shall be displayed according to ICAO Annex 4, App 2-17.<br><br>The length shall be shown in hundreds of metres or feet on the chart. It has to be explained clearly in the legend that the distance is displayed in values of hundreds.<br><br>The units of measurement (metres or feet) shall be omitted on the chart but it has to be explained clearly in the legend which values are used.<br><br>The length shall not be displayed in bold to distinguish between the aerodrome elevation.<br><br>The whole runway length should be rounded to the lower value of the next hundred meters or feet. | 95 |

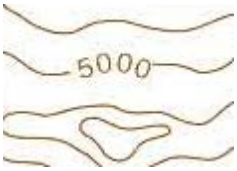
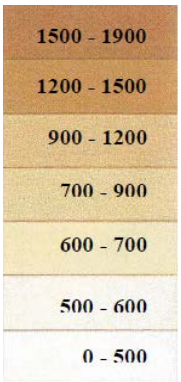
| *Guidance* | *Annex 4 Reference*<br><br>*Appendix 2* | *Details* | *Illustration* |
|---|---|---|---|
| 2.24.4 | 17.9.2<br><br>96 | Aerodrome frequency | |
| 2.24.4.1 | | The aerodrome frequency should be displayed. It is recommended to display the frequency on the chart. | 119.175 |
| 2.24.5 | | Aerodrome location indicator | |
| 2.24.5.1 | | The aerodrome location indicator should be displayed. | EADD |
| 2.24.6 | | Aerodrome lighting | |
| 2.24.6.1 | | The lighting should not be displayed.<br><br>*Note.- Depiction deviates from ICAO Annex 4. For explanation see 3.5* |  |
| 2.24.7 | | Runway surface | |
| 2.24.7.1 | | The runway surface should not be displayed if a runway pattern is displayed on the chart. Refer to 2.15<br><br>*Note.- Depiction deviates from ICAO Annex 4. For explanation see 3.6* |  |
| 2.24.8 | | Text display | |
| 2.24.8.1 | | The location indicator, name, elevation, frequency and runway length shall be displayed on the chart. |  |

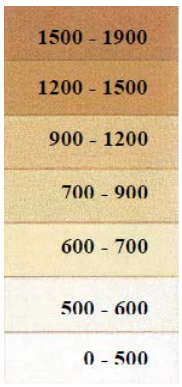
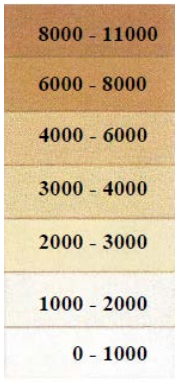
| *Guidance* | *Annex 4 Reference*<br><br>*Appendix 2* | *Details* | *Illustration* |
|---|---|---|---|
| **2.25** | **17.9.6** | **Navaid symbol** | |
| 2.25.1 | 99-110 | Navaid symbols shall be displayed according to ICAO Annex 4, App 2-17 | |
| 2.25.2 | | VOR |  |
| 2.25.3 | | DME |  |
| 2.25.4 | | VOR/DME |  |
| 2.25.5 | | TACAN |  |
| 2.25.6 | | VORTAC |  |
| 2.25.7 | | NDB<br><br>It is recommended to display a smaller symbol if clutter on the chart apply. |  |
| 2.25.8 | | Basic radio navigation aid |  |

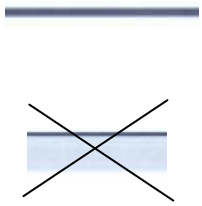
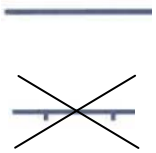
| *Guidance* | *Annex 4 Reference*<br><br>*Appendix 2* | *Details* | *Illustration* |
|---|---|---|---|
| 2.25.9 | 17.9.6<br><br>99-110 | Compass rose<br><br>Compass rose shall be orientated with the alignment of the station (normally Magnetic north) according to ICAO Annex 4, App 2-17. |  |
| **2.26** | **17.9.6** | **Navaid text** | |
| 2.26.1. | proposal | The frequency shall be displayed on the chart together with the belonging symbol. | 114.300 |
| 2.26.2 | | The ident shall be displayed on the chart together with the belonging symbol. | CAA |
| 2.26.3 | | The morse could be displayed on the chart optional |  |
| 2.26.4 | | The coordinates should be omitted on the chart. | ~~52° 22’ 54’’ N 031°44’36’’W~~ |
| **2.27** | **17.9.3** | **Obstacle symbol** | |
| 2.27.1 | 130-135 | Obstacle symbol shall be displayed according to ICAO Annex 4, App 2-19 if the type is unknown. | |
| 2.27.1.1 | | Obstacle |  |
| 2.27.1.2 | | Lighted obstacle |  |

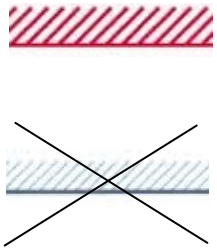
| *Guidance* | *Annex 4 Reference*<br><br>*Appendix 2* | *Details* | *Illustration* |
|---|---|---|---|
| 2.27.1.3 | 17.9.3<br><br>130-135 | Group obstacles |  |
| 2.27.1.4 | | Lighted group obstacles |  |
| 2.27.2 | | Exceptionally high obstacle symbol shall be displayed according to ICAO Annex 4, App 2-19 | |
| 2.27.2.1 | | Obstacle<br><br>It is optional to display the symbol as it looks in reality (type known) |  |
| 2.27.2.2 | | Obstacle - lighted<br><br>It is optional to display the symbol as it looks in reality (type known) |  |
| 2.27.3 | | Special obstacle symbol shall be displayed if the type is known. | |
| 2.27.3.1 | | Wind turbine – unlighted and lighted shall be displayed according to ICAO Annex 4, App 2-19 |  |
| 2.27.3.2 | | Wind turbines – minor group and group in major area, lighted shall be displayed according to ICAO Annex 4, App 2-19 |  |

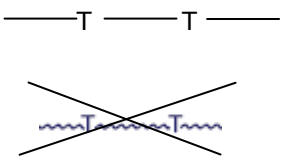
| *Guidance* | *Annex 4 Reference*<br><br>*Appendix 2* | *Details* | *Illustration* |
|---|---|---|---|
| **2.28** | **17.9.3** | **Obstacle text** | |
| 2.28.1 | 136 | The elevation of the top shall be shown according to Annex 4, App 2-19.<br><br>The height can be shown optional. | ***52***<br>**(15)** |
| **2.29** | **17.9.3** | **Transmission line** | |
| 2.29.1 | 137 | Transmission lines shall be displayed with a straight line instead of a wavy line between the "T".<br><br>It is optional to display Transmission lines.<br><br>*Note.- Depiction deviates from ICAO Annex 4. For explanation see 3.7* | T T |
| **2.30** | **17.9.3** | **Cable** | |
| 2.30.1 | proposal | Cables (not marked) | |
| 2.30.1.1 | | Cables shall be displayed by a magenta ticked line. | |
| 2.30.2 | | Cables (marked) | |
| 2.30.2.1 | | Cables shall be displayed by a magenta circled line. | |
| **2.31** | **17.8** | **Isogonic line** | |
| 2.31.1 | 138 | Isogonic line shall be displayed according to ICAO Annex 4, App 2-20 | 3° E |

| *Guidance* | *Annex 4 Reference*<br><br>*Appendix 2* | *Details* | *Illustration*<br><br>*Pantone colour* |
|---|---|---|---|
| **3.0** | **17.7.7** | **Items not finalized discussed** | |
| 3.1 | 1 | Contours | |
| 3.1.1 | | Contours should be shown according Annex 4.<br><br>The number of contours shall be seven steps. Smaller steps should be used in lower areas and bigger steps should be used in higher areas. The increments should increase in a logarithm way and should be identical with the hypsometric tints.<br><br>Additional contours can be shown for special requirements.<br><br>It is recommended to display contours in feet. | <br> |
| 3.2 | **17.7.8**<br>Manual | Hypsometric tints | |
| 3.2.1 | | Colour and altitude | |
| 3.2.2 | | Hypsometric tints should be shown according to ICAO Annex 4. The number of layers should be seven steps.<br><br>- Seven hypsometric tints should be shown for terrain from 0 ft up to 1900 ft.<br> |  |

| | | | |
|---|---|---|---|
| | | - Seven hypsometric tints should be shown for terrain from 0 ft up to 5000 ft.<br><br><br>- Seven hypsometric tints should be shown for terrain from 0 ft up to 11000 ft.<br><br><br>- In case of special topographical characteristics, the depicting steps can be chosen individually.<br><br>It is recommended to display a white colour instead of green for the lowest layer to avoid misreading with the depiction of wood. | |

| *Guidance* | *Annex 4 Reference*<br><br>*Appendix 2* | *Details* | *Illustration* |
|---|---|---|---|
| **4.0** | **17.9** | **Deviations from ICAO Annex 4** | |
| 4.1 | 126 | Airspace class E | |
| 4.1.1 | | Airspace class E shall be displayed by a blue line.<br><br>The blue band as described by ICAO Annex 4, App 2.19 shall be omitted in order to differentiate between airspace “not requiring ATC clearance” (E) and airspace “requiring ATC clearance” (B, C, D).<br><br>It is recommended to display the line thicker then for airspace A, B, C and D to distinguish clearly between these airspaces.<br><br>Note: A change proposal for ICAO Annex 4 will be worked out by the Focus Group. |  |
| 4.2 | | Airspace class G | |
| 4.2.1 | | Airspace class G shall be displayed by a blue line.<br><br>ICAO Annex 4 requires the same symbol for depicting airspace class G and the flight Information region (FIR).<br><br>The blue ticks shall be omitted to avoid misreading between airspace class G and the FIR.<br><br>Note: A change proposal for ICAO Annex 4 will be worked out by the Focus Group. |  |

| *Guidance* | *Annex 4 Reference*<br><br>*Appendix 2* | *Details* | *Illustration* |
|---|---|---|---|
| 4.3 | **17.9**<br><br>111 | Restricted airspace<br>(TRA, TSA, prohibited, restricted or danger area) | |
| 4.3.1 | | The line and the hatched band should be displayed in a magenta colour instead of blue as required by ICAO Annex 4.<br><br>Magenta shall be used to distinguish clearly between airspace class B, C, D, E, F and G which shall be displayed with a blue colour. The colour magenta shall be used to associate this airspace with danger.<br><br>Note: A change proposal for ICAO will be worked out by the Focus Group. |  |
| 4.4 | **17.9.2**<br><br>91 | Aerodrome symbol<br>Abandoned or closed aerodrome | |
| 4.4.1 | | Abandoned or closed aerodrome shall be displayed by a blue colour.<br><br>It is recommended to display the crossed line thinner and the circle thicker to avoid misreading between abandoned/closed aerodrome and runway pattern. |  |
| 4.5 | **17.9.2**<br><br>96 | Aerodrome text<br>Aerodrome lighting | |
| 4.5.1 | | Aerodrome lighting shall be omitted on the chart except required for special operations.<br><br>Note: A change proposal for ICAO Annex 4 will be worked out by the focus group. |  |

| *Guidance* | | *Details* | *Illustration* |
|---|---|---|---|
| 4.6 | **17.9.2**<br><br>96 | Aerodrome text<br>Runway surface | |
| 4.6.1 | | Runway surface shall be omitted on the chart if the runway pattern is displayed with a symbol as paved or unpaved.<br><br>Note: A change proposal for ICAO Annex 4 will be worked out by the focus group. |  |
| 4.7 | **17.9.3**<br><br>137 | Transmission line | |
| 4.7.1 | | Transmission lines shall be displayed with a straight line instead of a wavy line between the “T” to make the chart better readable.<br><br>Note: A change proposal for ICAO Annex 4 will be worked out by the focus group. |  |