

The IOF has released Revision 6 updates to both ISOM 2017-2 and ISSprOM 2019-2 – PDFs can be downloaded from the IOF mapping page [here](#).

## ISOM 2017-2

We have created a new BOF ISOM symbol set (v6.0). The symbol set revisions are detailed below:

Changes for ISSprOM 2017-2 Revision 6 January 2024:

- 104 Earth bank: Line increased to 0.25mm
- 105.1 Earth wall: New symbol number
- 105.2 **Retaining Earth wall: New map feature/symbol**
- 203.1 Rocky pit or cave: New symbol number
- 203.2 **Dangerous pit: New map feature/symbol**
- 214 Bare Rock: Colour changed to Black 35%
- 301 Uncrossable body of water: Outline changes to 0.12mm
- 307 Uncrossable marsh: Outline changes to 0.12mm
- 308 Marsh (Min size symbol): line 0.12mm
- 513.2 Retaining wall: Dot moved by 0.5mm (draws on curves without gaps)
- 715 Continuing point after map exchange: **New symbol** to be used in conjunction with the “Map Flip” symbol in control descriptions

In the BOF 1:15000 symbol set, two symbols have minor differences from the IOF spec.

- 418 Prominent small tree or bush: The BOF version has a 0.24 mm rather than 0.2mm white dot - for better legibility - although it has the same outside diameter.
- 203.2 Dangerous pit: The BOF version has a 0.24 mm rather than 0.2mm white dot - for better legibility. Line thickness is maintained so the outside diameter increases from 0.90 to 0.94mm.

Colours have been edited so that the colour table order matches the IOF Printing Appendix.

CMYK values are intentionally different to the IOF Printing Appendix for Blues:

- Blue CMYK values are based on Pantone PMS 299 (the spot colour used for offset printing) rather than using just Cyan. This gives a greater contrast between blue features and other colours and is particularly beneficial for those with some colour blindness.

Darken Blend Mode overprint is ticked on for Purple and Brown 100%.

- For contours, this typically gives better contrast to areas of green forest and the result is similar to what you get with offset printing.
- For course overprints there is a significant benefit to using overprint mode if there are a lot of areas of green on the map.

Using Darken Blend Mode overprint is recommended particularly if using professional printers such as BML or H&L. To remove Darken Blend Mode overprint, open the colour table and un-tick the overprint column for Brown and Purple. It is recommended to always leave overprint ticked for Black.

Files are released in formats for OCAD 2018, OCAD 12, OCAD 11 and Open Orienteering Mapper (OOM).

## ISSprOM 2019-2

We have created a new BOF ISSprOM symbol set (v6.0). The symbol set revisions are detailed below:

Changes for ISSprOM 2019-2 Revision 6 January 2024:

- 105.1 Small Earth wall: New symbol number)
- 105.2 **Retaining Earth wall: New map feature/symbol**
- 113 Broken Ground: Dots now only 0.3mm (using a BOF structure)
- 207 Stony Ground: Dots now only 0.25mm (using a BOF structure)
- 415 Distinct Cultivation Boundary: line width increased to 0.15mm
- 509.2 Tramway: Revised symbol with thinner lines in Black
- 533 **Area with obstacles: new map feature/symbol**
- 709 Out of bounds area: Change of border line width to 0.4mm
- 710.1 Crossing point: Revised symbol with increased size and line width
- 715 Continuing point after map exchange: **New symbol** to be used in conjunction with the “Map Flip” symbol in control descriptions

Only one symbol (418 Prominent small tree or bush) has any significant difference to the IOF spec. The BOF version has a 0.3mm rather than 0.2mm white dot - for better legibility - although it has a similar outside diameter.

Colours have been edited so that the colour table order matches the IOF Printing Appendix. Note that there are some duplicate colours to allow colours for certain symbols to be moved in the colour table however if you make no manual changes the order is as in the Printing Appendix document.

CMYK values are intentionally different to the IOF Printing Appendix for Blues and Browns:

- Blue CMYK values are based on Pantone PMS 299 (the spot colour used for offset printing) rather than using just Cyan. This gives a greater contrast between blue features and other colours and is particularly beneficial for those with some colour blindness.
- Brown CMYK values are set to 40% and 20% rather than 50% and 30% (as named in the colour table). This is for better contrast relative to buildings and is aimed particularly at urban maps which typically have a high percentage of both buildings and road/paved areas.

Darken Blend Mode overprint is ticked on for Purple and Brown 100%.

- For contours, this typically gives better contrast to areas of green forest and the result is similar to what you get with offset printing.
- Contours over ISSprOM buildings generally print with much better quality (and legibility) using Darken Blend Mode overprint.
- For coarse overprints on ISSprOM (urban) maps there is a significant benefit to using overprint mode if there are a lot of buildings on the map.

Using Darken Blend Mode overprint is recommended particularly if using professional printers such as BML. To remove Darken Blend Mode overprint, open the colour table and un-tick the overprint column for Brown and Purple. It is recommended to always leave overprint ticked for Black.

Files are released in formats for OCAD 2018, OCAD 12, OCAD 11 and Open Orienteering Mapper (OOM).

## Summary of changes for Rev6.3 (11/01/26):

### New Mountain Bike (MTB) trail symbol

In both ISOM and ISSprOM symbol sets, a new British Orienteering MTB symbol has been added. The symbol 508.1 is a variant of 508, the “Linear trace or Narrow ride” symbol with the addition of 40% Purple “framing” (0.75mm wide for 1:10000 and 1:4000 maps and 0.5mm for 1:15000).

This is designed for use on Formal Narrow “Single-track” MTB trails where it would be dangerous to run along the trail. In general, it is not OOB to cross these trails, but it is OOB to run along the trail.

### OS and EA Copyright logos

OS Open data, OS 100015287 and EA Copyright logos for 2026 and 2027 are added to all symbol sets.

### Base colours

For users of OCAD 2020 OCAD “Base colours” have been added to allow easy adjustment to suit your printer. [https://www.ocad.com/wiki/ocad/en/index.php?title=Base\\_Colors](https://www.ocad.com/wiki/ocad/en/index.php?title=Base_Colors)

Note that in the BOF symbol sets, these have been adjusted from the IOF default CMYK values to achieve good results when exporting PDF files and then printing with BML Print.

### Legibility dots

Purple dots have been added to the ISSprOM symbol set to aid in checking the minimum gaps for legibility

1.0mm	Gap in hedges, fences and walls
0.4mm	Gap between uncrossable features
0.15mm	Gap between lines of the same colour



### Other changes to the ISSprOM symbol set:

Additional “501” symbols were added (and some renumbered)

501.021 renumbered to 501.023 (icon also edited). 501.022 renumbered to 501.021 (to match OCAD set)