Know your sport

## ISOM 2017: The new map symbols explained

symbols explained

For a fair orienteering competition, it is

fundamentally necessary for all competitors at an event to have the same understanding of the symbols used on the map. This applies both at international events and at the smallest local competition. To

achieve this, the International Orienteering Federation adopts an approved listing of symbols and includes instructions on such things as the size of the symbols and the thickness and colour of the lines. Mappers then use these when drafting the map for an event. For the last 17 years, orienteering maps have been based on a version adopted in 2000. Earlier this year a new version was agreed and published as the **International Specification for Orienteering Maps** - known as **ISOM 2017**. Although much has remained the same, there are important variations. Here we provide a summary of the main things which have changed.

International Specification for Orienteering Maps

## Landforms [Brown symbols]

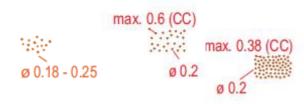
2000

2017

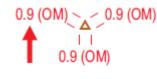


**Form Lines:** The change here is to reduce the thickness of the line. Previously the form line used the same thickness as the standard contour (0.14mm). Now it is slightly thinner (0.10mm) reducing the problems of gaps between symbols.

Good luck everybody!



**Broken ground:** There are now two different symbols. The more open symbol represents broken ground where there is 'little impact on runnability'; the denser spaced dots is used when the broken ground 'affects runnability'.



Prominent landform feature: For the IOF, this is an entirely new symbol. However here in the UK we have used an approved national symbol for a 'platform' (a flatter area of ground on a slope). This was a solid brown triangle with a point facing down the slope. This new symbol has more general use but its definition must be given on the map.

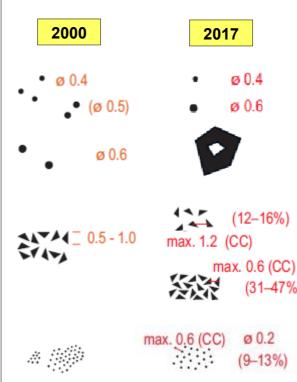
## For a copy of the new ISOM 2017, see:

http://orienteering.org/wp-content/uploads/2017/04/ISOM2017\_20May2017.pdf

The description provided on this pages follows the information provided by the IOF in a separate document available at:

http://orienteering.org/wp-content/uploads/2017/04/
Changes from ISOM2000 to ISOM2017.pdf

## Rocks and Boulders [Black symbols]



**Boulder fields:** In 2000 a single symbol was provided for a boulder field although the specification did state that 'the going is indicated by the density of the triangles'. Two separate types of boulder field have now been defined. The upper symbol is used when the boulder field 'will generally

boulder field' is to be used when 'the runnability is affected'.

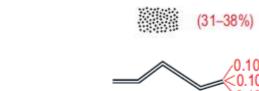
not impact runnability'; the lower symbol for a 'Dense

Boulders: There are now three separately defined boulder

and steep that it is impossible to pass/climb.').

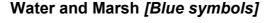
symbols: '**Boulder**' (1-2m), '**Large boulder**' (more than 2m) and the new '**Gigantic boulder**' (a 'boulder that is so high

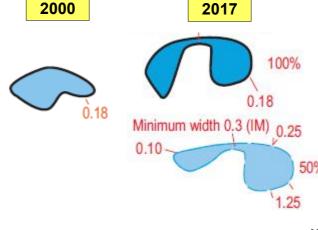
**Stony ground:** As with the boulder field symbol, the stony ground symbol has been expanded to emphasise the relative runnability of the terrain. The 2000 specification indicated that the density of dots would indicate 'the amount of rock'. Now the three symbols are for 'stony ground - slow running', 'stony ground - walk' and 'stony ground - fight'.



(19-25%)

ø 0.16 - 0.2



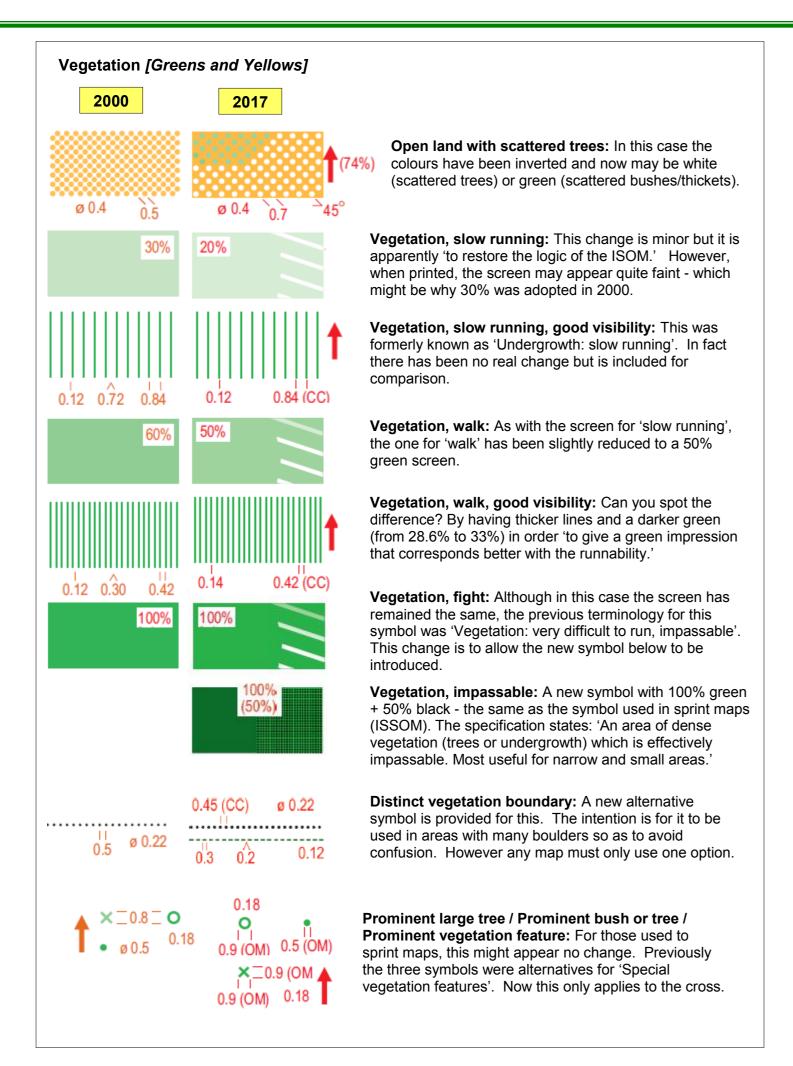


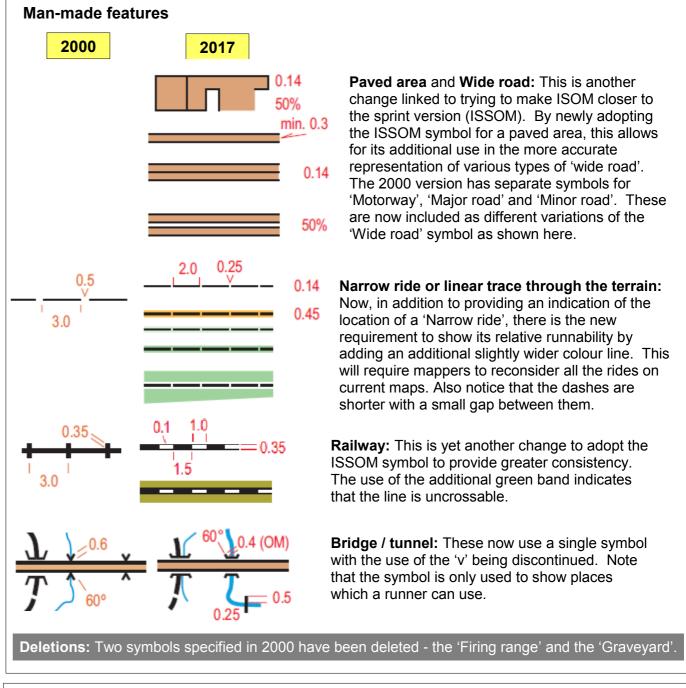
**Body of water:** In the 2000 specification there was a single symbol for 'lake'. However variation was possible as it stated that 'a black line around a water feature indicates that it cannot be crossed under normal weather conditions.' Now this has been introduced more formally with two separate symbols. The top symbol is for an '*Uncrossable body of water*'. The lower symbol is for a '*Shallow body of water*'. Although in this case the blue colour would usually be 50%, for small ponds in can be 100% (but with no line).

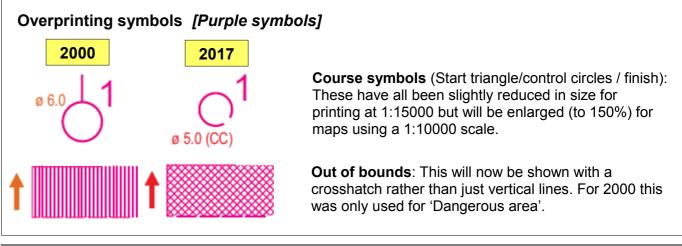


**Well, fountain or water tank:** A small change which, in this case, is to benefit colour vision impaired runners. However in the 2000 specification the circle was simply used for a 'Well' but the new version has a much wider usage.

**Prominent water feature:** Another small change. In 2000 the blue cross was for a 'Special water feature'. Now this is converted to a blue star (and oriented to north) - also to help those with colour vision impaired vision.







It is also important to know that maps printed at 1:10000 will now be a simple enlargement of the equivalent version of the map at 1:15000. All the dimensions shown here are for printing at 1:15000. Finally, as part of this, magnetic north lines will now always be 300 metres apart - 20mm on a 1:15000 map or 30mm on a 1:10000 map.