



ORIENTEERING NSW

COMPARISON OF MAPPING SPECIFICATIONS

3.3 WATER AND MARSH

Green = symbol change, map needs to change. **Yellow** = symbol change, gets smaller. **Blue** = symbol change, gets bigger or more frequent.

Pink = ISOM 2017 and ISSprOM differ. **Red** = symbol different, fix when field checking map. **Olive green** = not sure about this change in symbol.

Red text = recommended annotations to IOF Specifications.

ISOM 2000	ISOM 2017-2 (Adjusted version published January 2019)	ISSOM 1 January 2007	ISSprOM 2019 (valid from 1 January 2020, with errata)
<p>This group includes both open water and special types of vegetation caused by the presence of water (marsh). The classification is important because it indicates the degree of hindrance to the runner and provide features for map reading and control points. A black line around a water feature indicates that it cannot be crossed under normal weather conditions. In dry areas the features listed in this section may only contain water in some seasons.</p>	<p>This group includes both open water and special types of vegetation caused by the presence of water (marsh). The classification is important because it indicates runnability and provides features for map reading and control points. A black line around a water feature indicates that it is uncrossable.</p> <p>The features listed in this section may only contain water in some seasons.</p> <p>Marsh symbols are combined with area symbols for openness (yellow) and runnability (green and yellow).</p>	<p>No introductory text</p>	<p>No introductory text</p>

ISOM 2000	ISOM 2017-2 (Adjusted version published January 2019)	ISSOM 1 January 2007	ISSprOM 2019 (valid from 1 January 2020, with errata)
<p>301 Lake 304 Uncrossable river An uncrossable river or canal is drawn with black bank lines. The bank lines are broken at a ford.</p> <p>A black bank line indicates that the feature cannot be crossed.</p> <p>Large areas of water are shown with dot screen. Small areas of water should be shown with full colour.</p> <p>Min width: between black lines 0.2mm</p> <p>Colour: blue 50% (60 lines/cm), black.</p> <p>Black line width: 0.18mm</p>	<p>301 Uncrossable body of water (A)</p> <p>The black bank line emphasises that the feature is uncrossable.</p> <p>Dominant areas of water may be shown with 70% colour. Small areas of water and bodies of water that have narrow parts shall always be shown with full colour.</p> <p>Minimum width (inside): 0.3 mm. Minimum area (inside): 0.55 mm x 0.55 mm (footprint 8 m x 8 m). Min area (OM): 0.7mm</p> <p>Colour: blue, black.</p> <p>Black line width: 0.18mm</p>	<p>304.1 Impassable body of water (forbidden to cross) An area of deep water such as a lake, pond, river or fountain which may constitute a danger to the competitor or has forbidden access.</p> <p>The dark blue colour and the bordering black line indicates that the feature cannot or shall not be crossed.</p> <p>The minimum dimension is 1 mm².</p> <p>Colour: blue 100% or 75% (min. 60 lines/cm), black. It is forbidden to cross an impassable body of water! Competitors violating this rule will be disqualified.</p> <p>Black line width: 0.18mm</p>	<p>301 Uncrossable body of water (A)</p> <p>An area of deep water such as a lake, pond, river or fountain which may constitute a danger to the competitor.</p> <p>The dark blue colour and the bordering black line indicate that the feature shall not be crossed. Colour: black (outline), blue 100% or 70% for dominant areas.</p> <p>Minimum width: 0.3 mm Minimum area (inside): 0.5 mm² (footprint 8 m²)</p> <p>Colour: black (outline), blue 100% or 70% for dominant areas. [OA Rule 17.2 says competitors shall not cross a feature drawn with an Impassable body of water symbol.]</p> <p>Black line width: 0.18mm</p>

<p>302 Pond</p> <p>Where the lake or pond is smaller than 1mm² on the printed map, the bank line is omitted.</p> <p>Colour: blue.</p>	<p>302 Shallow body of water (A)</p> <p>A shallow seasonal or periodic body of water may be represented using a dashed outline.</p> <p>Small shallow water bodies may be represented as 100% blue (without an outline). Minimum width (inside): 0.3 mm.</p> <p>Minimum area (inside): 0.7 mm x 0.7 mm (footprint 10.5 m x 10.5 m). Minimum width (full colour): 0.3 mm. Minimum area (full colour): 0.55 mm x 0.55 mm (footprint 8 m x 8 m). Min diameter (full colour) 0.7mm – according to the drawing; this is different to the text above. Colour: blue (outline), blue 50%.</p> <p>Blue line width: 0.10mm Dash length: 1.25mm Gap between dashes: 0.25mm</p>	<p>305.1 Passable body of water</p> <p>An area of shallow water such as a pond, river or fountain that can be crossed.</p> <p>The body of water shall be less than 0.5 m deep and runnable. If the body of water is not runnable it shall be represented with the symbol <i>impassable body of water</i> (304.1). If no other line symbol touches the border of the passable body of water, the border shall be represented with a blue line.</p> <p>Colour: blue 30% (min. 60 lines/cm), blue. Blue line width: 0.18mm</p>	<p>302 Crossable body of water (A)</p> <p>An area of shallow water such as a pond, river or fountain that can be crossed.</p> <p>The body of water should be less than 0.5 m deep and runnable. If the body of water is not runnable it shall be represented with the symbol <i>Uncrossable body of water</i> (301). If no other line symbol touches the border of the passable body of water, the border shall be represented with a blue line.</p> <p>Minimum width: 0.3 mm (IM) – IM is on the drawing, but not the text Minimum area (inside): 0.5 mm² (footprint 8 m²)</p> <p>Colour: blue (outline), blue 30%. Blue line width: 0.18mm</p>
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ISOM 2000	ISOM 2017-2 (Adjusted version published January 2019)	ISSOM 1 January 2007	ISSprOM 2019 (valid from 1 January 2020, with errata)
<p>303 Waterhole A water-filled pit or an area of water which is too small to be shown to scale. Location is the centre of gravity of the symbol, which is orientated to north.</p> <p>Colour: blue. Line width: 0.18mm Horizontal width (top of V): 0.7mm Height: 0.8mm</p>	<p>303 Waterhole (P) A water-filled pit or an area of water which is too small to be shown to scale. Location is the centre of gravity of the symbol, and the symbol is orientated to north. Footprint: 10.5 m x 12 m. Colour: blue. Line width: 0.18mm Horizontal width (top of V): 0.7mm (OM) Height: 0.8mm (OM)</p>	<p>303 Waterhole A water-filled pit or an area of water which is too small to be shown to scale. The symbol is orientated to north.</p> <p>Colour: blue. Line width: 0.25mm Horizontal width (top of V): 0.82mm (OM) Height: 1.25mm (OM)</p>	<p>303 Waterhole (P) A water-filled pit or an area of water which is too small to be shown to scale. Location is the centre of gravity of the symbol, and the symbol is orientated to north. Footprint: 4.4 m x 5.0 m. Colour: blue. Line width: 0.25mm Horizontal width (top of V): 1.1mm (OM) Height: 1.25mm (OM)</p>
<p>305 Crossable watercourse A crossable watercourse, minimum 2 m wide. The width of watercourses over 5 m wide should be shown to scale.</p> <p>Colour: blue. Line width: min 0.25mm</p>	<p>304 Crossable watercourse (L) Should be at least 2 m wide.</p> <p>Minimum length (isolated): 1 mm (footprint 15 m). Colour: blue. Line width: 0.30mm</p>	<p>[Show to scale using passable water symbol.]</p>	<p>[Show to scale using crossable water symbol.]</p>
<p>306 Crossable small watercourse A crossable watercourse (including a major drainage ditch) less than 2 m wide. For better legibility a ditch in a marsh should be drawn as a crossable watercourse (305).</p> <p>Colour: blue. Line width: 0.14mm</p>	<p>305 Small crossable watercourse (L)</p> <p>Minimum length (isolated): 1 mm (footprint 15 m) Colour: blue. Line width: 0.18mm</p>	<p>306 Passable small watercourse A crossable watercourse less than 2 m wide.</p> <p>Colour: blue. Line width: 0.21mm</p>	<p>305 Small crossable watercourse (L) A crossable watercourse less than 2 m wide.</p> <p>Minimum length: 1 mm (footprint 4 m) Colour: blue. Line width: 0.21mm</p>

ISOM 2000	ISOM 2017-2 (Adjusted version published January 2019)	ISSOM 1 January 2007	ISSprOM 2019 (valid from 1 January 2020, with errata)
<p>307 Minor water channel A natural or man-made minor water channel which may contain water only intermittently.</p> <p>Colour: blue. Line width: 0.14mm Dash length: 1.25mm Gaps between dashes: 0.25mm</p>	<p>306 Minor/seasonal water channel (L) A natural or man-made minor water channel which may contain water only intermittently. Minimum length (isolated): two dashes (2.75 mm - footprint 41 m). Colour: blue. Line width: 0.18mm Dash length: 1.25mm Gaps between dashes: 0.25mm</p>	<p>307 Minor watercourse A natural or man-made minor watercourse which may contain water only intermittently.</p> <p>Colour: blue. Line width: 0.21mm Dash length: 1.87mm Gaps between dashes: 0.37mm</p>	<p>306 Minor / seasonal watercourse (L) A natural or man-made minor watercourse which may contain water only intermittently. Minimum length (isolated): two dashes (4.11 mm - footprint 16.5 m) Colour: blue. Line width: 0.21mm Dash length: 1.87mm Gaps between dashes: 0.37mm</p>
<p>309 Uncrossable marsh A marsh which is uncrossable or dangerous for the runner.</p> <p>A black line surrounds the symbol.</p> <p>Colour: blue, black. Blue line width: 0.25mm Gap between blue lines: 0.25mm</p>	<p>307 Uncrossable marsh (A) A marsh which is uncrossable or dangerous for the competitor.</p> <p>The black outline emphasises that the feature is uncrossable. The black outline is omitted for boundaries between uncrossable marsh and symbol <i>Uncrossable body of water</i> (301). The symbol may be combined with a rough open land symbol (403, 404) to show openness.</p> <p>The symbol is orientated to north. Minimum width: 0.3 mm (inside). Minimum area: 0.5 mm² (inside). Min size: 0.8mm (OM) Colour: black (outline), blue. Blue line width: 0.25mm Gap between blue lines: 0.25mm</p>	<p>309 Impassable marsh (forbidden to cross) A marsh which is impassable or which may constitute a danger to the competitor. The feature cannot or shall not be crossed. It is forbidden to cross an impassable marsh! Competitors violating this rule will be disqualified.</p> <p>Colour: blue, black. Blue line width: 0.25mm Gap between blue lines: 0.25mm</p>	<p>307 Uncrossable marsh (A) A marsh which is uncrossable or which may constitute a danger to the competitor. The feature cannot be crossed. [OA Rule 17.2 says competitors shall not cross a feature drawn with an Uncrossable marsh symbol.]</p> <p>At least two blue lines shall be clearly visible. Minimum height: 2 lines. The symbol is orientated to north.</p> <p>Colour: black (outline), blue. Blue line width: 0.25mm Gap between blue lines: 0.25mm</p>

ISOM 2000	ISOM 2017-2 (Adjusted version published January 2019)	ISSOM 1 January 2007	ISSprOM 2019 (valid from 1 January 2020, with errata)
Black line width: 0.18mm	Black line width: 0.18mm	Black line width: 0.18mm	Black line width: 0.18mm
<p>310 Marsh A crossable marsh, usually with a distinct edge. The symbol should be combined with vegetation symbols to show runnability and openness. Where a small marsh area should be combined with either 403/404 it is permitted to use 401/402 to improve legibility.</p> <p>Min: 2 lines 0.5mm [long?]</p> <p>Colour: blue. Line width: 0.1mm Distance from line to line: 0.3 mm</p>	<p>308 Marsh (A) A crossable marsh, usually with a distinct edge. The symbol shall be combined with other symbols to show runnability and openness.</p> <p>The symbol is orientated to north. Minimum area: 0.5 mm x 0.4 mm (two lines (footprint 7.5 m x 6 m). Min: 2 lines Colour: blue. Line width: 0.1mm Distance from line to line: 0.3mm</p>	<p>310 Marsh A crossable marsh, usually with a distinct edge. The symbol shall be combined with vegetation symbols to show runnability and openness.</p> <p>Min: 2 lines 0.5mm long</p> <p>Colour: blue. Line width: 0.1mm Distance from line to line: 0.3mm (CC)</p>	<p>308 Marsh (A) A crossable marsh, usually with a distinct edge. The symbol shall be combined with vegetation symbols to show runnability and openness.</p> <p>The symbol is orientated to north. At least two blue lines shall be clearly visible. Minimum height: 2 lines.</p> <p>Colour: blue. Line width: 0.12mm Distance from line to line: 0.38mm</p>
<p>308 Narrow marsh A marsh or trickle of water which is too narrow to be shown with symbol 310 (less than ca. 5 m wide).</p> <p>Colour: blue. Diameter of dots: 0.25mm Gap between dots: 0.5mm</p>	<p>309 Narrow marsh (L) A marsh or trickle of water which is too narrow (less than about 5 m wide) to be shown with the marsh symbol. Minimum length (isolated): two dots (0.7 mm - footprint 10.5 m). Colour: blue. Diameter of dots: 0.25mm Gap between dots: 0.45mm</p>	<p>308 Narrow marsh A marsh or trickle of water which is too narrow to be shown with symbol <i>marsh</i> (310).</p> <p>Colour: blue. Diameter of dots: 0.37mm Gap between dots: 0.6mm</p>	<p>309 Narrow marsh (L) A marsh or trickle of water which is too narrow to be shown with symbol <i>Marsh</i> (310). Minimum size (isolated): two dots (1 mm - footprint 4 m). Colour: blue. Diameter of dots: 0.37mm Gap between dots: 0.6mm (CC)</p>

ISOM 2000	ISOM 2017-2 (Adjusted version published January 2019)	ISSOM 1 January 2007	ISSprOM 2019 (valid from 1 January 2020, with errata)
<p>311 Indistinct marsh An indistinct or seasonal marsh or area of gradual transition from marsh to firm ground, which is crossable. The edge is generally indistinct and the vegetation similar to that of the surrounding ground. The symbol should be combined with vegetation symbols to show runnability and openness.</p> <p>Picture shows at least 3 lines.</p> <p>Colour: blue. Line width: 0.1mm Distance from line to line: 0.3mm Length of dash: 0.9mm Gap between dashes: 0.25mm</p>	<p>310 Indistinct marsh (A) An indistinct marsh, seasonal marsh or an area of gradual transition from marsh to firm ground, which is crossable. The edge is generally indistinct and the vegetation similar to that of the surrounding ground. The symbol shall be combined with other symbols to show runnability and openness. The symbol is orientated to north. Picture shows at least 3 lines. Minimum area: 2.0 mm x 0.7 mm (footprint 30 m x 10.5 m). Colour: blue. Line width: 0.1mm Distance from line to line: 0.3mm (CC) Length of dash: 0.9mm Gap between dashes: 0.25mm</p>	<p>311 Indistinct marsh An indistinct or seasonal marsh or area of gradual transition from marsh to firm ground, which is crossable. The edge is generally indistinct and the vegetation similar to that of the surrounding ground. The symbol shall be combined with vegetation symbols to show runnability and openness.</p> <p>Picture shows at least 3 lines.</p> <p>Colour: blue. Line width: 0.1mm Distance from line to line: 0.3mm Length of dash: 0.9mm Gap between dashes: 0.25mm</p>	<p>310 Indistinct marsh (A) An indistinct or seasonal marsh or area of gradual transition from marsh to firm ground, which is crossable. The edge is generally indistinct and the vegetation similar to that of the surrounding ground. The symbol shall be combined with vegetation symbols to show runnability and openness. The symbol is orientated to north. At least three blue lines shall be clearly visible.</p> <p>Colour: blue. Line width: 0.12mm Distance from line to line: 0.38mm Length of dash: 1.0mm Gap between dashes: 0.35mm</p>
<p>312 Well Wells and captive springs, which are clearly visible on the ground.</p> <p>Colour: blue. Diameter of circle: 0.8mm [outside] Line width: 0.18mm</p>	<p>311 Well, fountain or water tank (P) A prominent well, fountain, water tank or captive spring. Footprint: 12 m x 12 m. Colour: blue. Length of side of square: 0.8mm (OM) Line width: 0.18mm</p>	<p>312 Small fountain or well Small well or fountain, which is at least 1 m high or at least 1 m in diameter. Colour: blue. Diameter of circle: 0.95mm [outside] Line width: 0.25mm</p>	<p>311 Small fountain or well (P) Small fountain or well Minimum height: 0.5 m. which is at least 1 m in diameter. Footprint: 3.6 m x 3.6 m. Colour: blue. Length of side of square: 0.9mm (OM) Line width: 0.25mm</p>

ISOM 2000	ISOM 2017-2 (Adjusted version published January 2019)	ISSOM 1 January 2007	ISSprOM 2019 (valid from 1 January 2020, with errata)
<p>313 Spring The source of a stream with a distinct outflow.</p> <p>The symbol is orientated to open downstream.</p> <p>Colour: blue. U shape, distance between end of line: 0.8mm [IM]</p> <p>Line width: 0.18mm</p>	<p>312 Spring (P) A source of water.</p> <p>Location is the centre of gravity of the symbol, and the symbol is orientated to open downstream.</p> <p>Footprint: 13.5 m x 7 m. Colour: blue. U shape, distance between end of line: 0.9mm (OM) Height of U: 0.45mm (OM) Line width: 0.18mm</p>	<p>313 Spring The source of a stream with a distinct outflow.</p> <p>The symbol is orientated to open downstream. This symbol should generally not be used in urban areas.</p> <p>Colour: blue. U shape, distance between end of line: 0.95mm</p> <p>Line width: 0.25mm</p>	<p>312 Spring (P) The source of water with a distinct outflow.</p> <p>The symbol is orientated to open downstream.</p> <p>Footprint: 4.8 m x 2.4 m. Colour: blue. U shape, distance between end of line: 1.2mm (OM) Height of U: 0.6mm (OM) Line width: 0.25mm</p>
<p>314 Special water feature A special small water feature.</p> <p>The definition of the symbol must always be given in the map legend.</p> <p>Colour: blue. X shape: 0.8mm high</p> <p>Line width: 0.18mm</p>	<p>313 Prominent water feature (P)</p> <p>The symbol is orientated to north. The definition of the symbol must be given on the map. Footprint: 13.5 m x 13.5 m. Colour: blue. 5 pointed asterisk: 0.9mm high and wide Line width: 0.16mm</p>	<p>314 Prominent water feature A small water feature which is significant or prominent. The symbol is orientated to north. The definition of the symbol shall always be given in the map legend.</p> <p>Colour: blue. X shape: 1.2mm high</p> <p>Line width: 0.25mm</p>	<p>313 Prominent water feature (P) A small water feature which is significant or prominent. The symbol is orientated to north. The definition of the symbol must be given on the map. Footprint: 4.8 m in diameter. Colour: blue. 5 pointed asterisk: 1.2mm high and wide Line width: 0.25mm</p>