

- For the mapper, standards can be helpful
- Especially by specifying what to map and how to map it (e.g. rock features)
- But even at international levels they are sometimes ignored http://www.attackpoint.org/discussionthread.jsp/message 674122
- But standards are difficult to create and maintain
- There are many (many) steps:
  - (1) Proposal (do we need changes?)
  - (2) Preparation (submissions from stakeholders)
  - (3) Committee stage (who?)
  - (a) Dominities stage (with
  - (4) Draft (many)
  - (5) Approval
  - (6) Publication (and awareness)



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## Why do we need mapping specifications / standards?

What's the difference?

Standard: something used as a measure or model in comparative evaluations

Specification: a detailed description of dimensions, materials, etc.

Why are they needed?

- (a) The competition must be the same for all competitors.
   Accurate and legible maps enhance equality.
   Specifications help ensure uniformity and map legibility.
- (b) Orienteering is an international sport, so a common approach to drawing maps is essential.









#### Colour

(Spot Colour printing and four colour printing are not included)

Colour	Colour PMS colour		Cyan Magenta		Black	
Black	Process black	10.50			100%	
Brown	PMS 471		56%	100%	18%	
Yellow	PMS 136		27%	79%		
Blue	PMS 299	87%	18%			
Green	PMS 361	76%		91%		
Grey	PMS 428				23%	
Violet	Purple		100%			

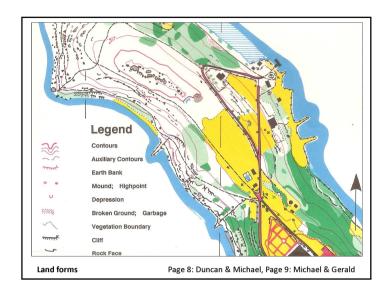
<u>From Gordon</u>: Adrian Uphill can provide colour charts for comparison of colours from your printer with the standard. See <a href="http://www.orienteering.asn.au/technical/mapping/printingmaps/">http://www.orienteering.asn.au/technical/mapping/printingmaps/</a>











## Pages 10 & 11

- The termite mound cross is really a symbol for a special land form feature (which should be indicated in the legend). (118)
- 2. An impassable cliff is shown with downward tags. ISOM says the tags may be omitted if space is short (not for other reasons). (201)
- 3. Massive cliffs and boulders are shown in plan shape without tags (202)
- 4. The minimum height for a boulder is 1m (206)
- When mapping boulder fields a minimum of two triangles should be used (207)





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### Pages 8 & 9

- 1. The numbers Ocad uses for symbols are actually ISOM numbers!!
- It is permissible to alter the height of a contour by 25% if this will improve the representation of a feature.
- Only one form line may be used between neighbouring contours (103)
- Impassable earth banks should be drawn with the impassable cliff symbol (106)
- The knoll symbol is used for "A small obvious mound or rocky knoll" (Diameter less than 5 m.) Use of this symbol for partially buried boulders is not mentioned. (112 & 113)



## Pages 12 & 13

- The symbol for stony ground (210) currently specifies that "The dots should be randomly distributed".
   In the current revision of the ISOM a dot screen has been specified. Australian mappers have appealed against this change.
- Bare rock can be either 30% black, or grey which is 23% black.
   (212) (On Sprint maps it is 20% black.)
- 3. There is no symbol for mapping mangroves but in Australia symbol 310 for a (distinct) march is often used.
  Is this potentially confusing?



### Page 14 & 15

- Greens are defined by runnability e.g. mid-green is defined as "difficult to run" with a running sped of 20 to 60% of the normal speed.
- If yellow coloured areas dominate a map, a screen of 75% yellow may be used. (401) The colour for rough open is 50% yellow.
- 3. Symbols that may be combined are on page 4

117 Broken ground		117 Broken ground						<ul> <li>Permitted combinations</li> </ul>			
210 Stony ground		210 Stony ground									
309 Uncrossable marsh		309 Uncrossable marsh									
310 Marsh		0	310 Marsh								
311 Indistinct marsh	0	0	3,11 Indistinct marsh								
401 Open land	0	0			0	401	01 Open land				
402 Open land with scattered trees	0	0		0	0		402 Open land with scattered trees				
403 Rough open land		0	0	0	0			403	R	ough open land	
404 Rough open land with scattered trees	0	0		0	0		П		404	04 Rough open land with scattered trees	
406 Forest slow running	0	0		0	0			Т		406 Forest: slow running	
407 Undergrowth: slow running				0	0			0	0	407 Undergrowth: slow running	
408 Forest difficult to run	0	0		0	0					408 Forest: difficult to run	
409 Undergrowth: difficult to run	0	0		0	0		П	0	0	409 Undergrowth: difficult to run	
410 Vegetation: impassable	0	9		0	0		$\Box$				

#### Page 18 - 20

- 1. With the ruined fence symbol (523), the gap is only 10% of the line, but often only fence posts exist, so the missing portion is 90%.
- 2. The use of olive green is different to that for sprint maps:



#### 527 Settlemen

Houses and gardens and other built up areas. Roads, buildings and other significant features within a settlement must be shown. If all buildings cannot be shown, an alternative symbol (black line screen) may be used.

Colour: green 50% (60 l/cm) and yellow 100% or alternatively black 32.5% (27 l/cm).

3. Manmade features (539 O & 540 X) must be identified in the legend.



#### Pages 16 & 17

- 1. Green crosses, open circles and dots can all be used for different vegetation features. (They must be defined in the legend.)
- A road under construction may be shown with broken lines. (Different to a sprint map.)
- 3. There are different ways of showing distinct and indistinct path junctions (510 & 511)
- 4. There are different ways of showing stream crossings with and without bridges (513 & 514)



#### Interesting websites

Australia's submission to the ISOM revision committee

http://www.orienteering.asn.au/gfolder/ISOM\_%20Revision\_%20OA\_%20 Submission\_%20181208.pdf

Comments on draft of ISOM revision:

http://www.orienteering.asn.au/gfolder/mapping/1\_ISOM%20Draft.pdf



# Further Comments / Questions?

