

## Map scale & Printing method decision process for Foot Orienteering

1 The need for legibility of an orienteering map is above other requirements: content, the need for accuracy, the level of detail. Terrain that can not be legibly presented at the scale of 1:15000 (Sprint 1:4000, 1:5000) is not suitable for foot orienteering (ISOM 2.4, 3.1).

2 Spot colour printing is recommended. Other printing methods will only be acceptable if line quality, legibility and colour appearance are the same quality as the spot colour printed map (ISOM 3.1).

3 According to the IOF Foot-O competition rules (15.2) the map scales shall be:

Distance	Scale
Long	1:15000, 1:10000 recommended for -16 years & 45+ years (40+ years Aust)
Middle	1:10000, 1:15000
Relay	1:10000, 1:15000
Sprint	1:4000, 1:5000

4 Where the 1:10000 scale is used it shall be a strict enlargement of the 1:15000 scale map (ISOM 3.1, 3.4).

5 For the Australian Long Distance Championships, where the map is *particularly detailed*, the scale for 16 - 40 year age classes may be 1:10000 with approval of the OA Director, Technical (OA Rule 15.3).

“Particularly detailed” may be interpreted as meaning maps with:

- significant areas of bare rock, especially small areas of bare rock amongst other detail
- complex patterns of contours & earth features ie gold mining terrain
- complex rock features
- complex areas of colour screens, especially yellow and green

6 For Group A Events, map deviations and digital printing need approval of the OA Mapping Officer (OA Rule 15.1 and Digital Printing Policy 8.2).

7 Digital printing will be approved when it can be demonstrated that there will be *no significant loss* of line quality, legibility and colour appearance as compared to a spot colour printed map. A map which may be unsuitable for digital printing at 1:15000 may be suitable for digital printing at the larger scale of 1:10000 (Digital Printing Policy 6 and 8.3)

8 The table below summarises map scales for Group A Events.

Map scale	1:15000	1:10000	1:5000/1:4000
16 - 40 year classes	L M R	L* M R	S
-16 yr, 40+ year classes	L M R	L M R	S
Very easy courses	L	L M R	L** M** R** S

L = Long distance, M = Middle distance, R = Relay, S = Sprint

\* Aust Long Distance Championships subject to approval of OA Director, Technical

\*\* 1:5000 only

9 For Group B & C Events, map deviations and digital printing are at the discretion of the State Association (Digital Printing Policy 8.1). This guide could be applied to these events.

OA Mapping Chair, July 2008