Foster et		ectral radiance data fo 015, http://dx.doi.org	or the scene Gualtar g/10.1016/j.visres.2015.03.012
Location name	Gualtar Campus, University of Minho, Braga, Portugal		
Scene description	A building located in the university campus.		
Geographic reference points	Centre of the building	Approx. latitude 41.560047°	Approx. longitude -8.398496°
	Camera	Approx. latitude 41.560047°	Approx. longitude -8.398496°
Date of acquisition	6 June 2003		
Acquisition times	11:44, 12:45, 13:46, 14:47, 15:45, 16:45, 17:46, 18:53, 19:44.		
Viewing geometry	Visual angle of scene from camera: 6.9° × 5.3°		
	Distance of scene from camera: 53 m		
Matlab Files	Gualtar_1144.mat, _1245.mat, _1346.mat, _1447.mat, _1545.mat, _1645.mat, _1746.mat, _1853.mat, _1944.mat		
BMP Files	Gualtar_1144.bmp, _1245.bmp, _1346.bmp, _1447.bmp, _1545.bmp, _1645.bmp, _1746.bmp, _1853.bmp, _1944.bmp. All are unedited.		
How to load data	In Matlab, if hyperspectral image files are in your working directory, then Matlab command >> load ('Gualtar_1144.mat') loads hyperspectral image data into memory with name 'hsi', same for every scene		
What the data represent	Array 'hsi' has size $1024 \times 1344 \times 33$. It represents a set of 33 greyscale images of size 1344 (H) \times 1024 (V) pixels sampled at wavelengths 400, 410,, 720 nm, with each pixel value representing spectral radiance in W m ⁻² sr ⁻¹ nm ⁻¹		
Postprocessing	See Section 2.2. <i>Image processing</i> , in Foster, D.H., Amano, K., & Nascimento, S.M.C. (2015). <i>Vision Research</i> , http://dx.doi.org/10.1016/j.visres.2015.03.012.		
Notes	The Munsell reference surfaces can be seen as a narrow strip at the bottom of the scene. The thin black or coloured edges present in some images are the result of multiple hyperspectral image registrations, mainly over time.		
More details	See Foster, D.H., Amano, K., & Nascimento, S.M.C. (2015). Vision Research, http://dx.doi.org/10.1016/j.visres.2015.03.012.		
Usage and citation	These data are for personal use only. If you use these hyperspectral images or the colour images rendered from them in any published work arising from these data, please cite the source publication in full: Foster, D.H., Amano, K., & Nascimento, S.M.C. (2015). Time-lapse ratios of cone excitations in natural scenes. <i>Vision Research</i> , http://dx.doi.org/10.1016/j.visres.2015.03.012.		
Authors	David Foster <d.h.foster@manchester.ac.uk>, Kinjiro Amano <k.amano@manchester.ac.uk>, and Sérgio Nascimento <smcn@fisica.uminho.pt></smcn@fisica.uminho.pt></k.amano@manchester.ac.uk></d.h.foster@manchester.ac.uk>		
Last update	29 September 2015		