HighFire Risk: On-line Terrain-derived Thematic Maps

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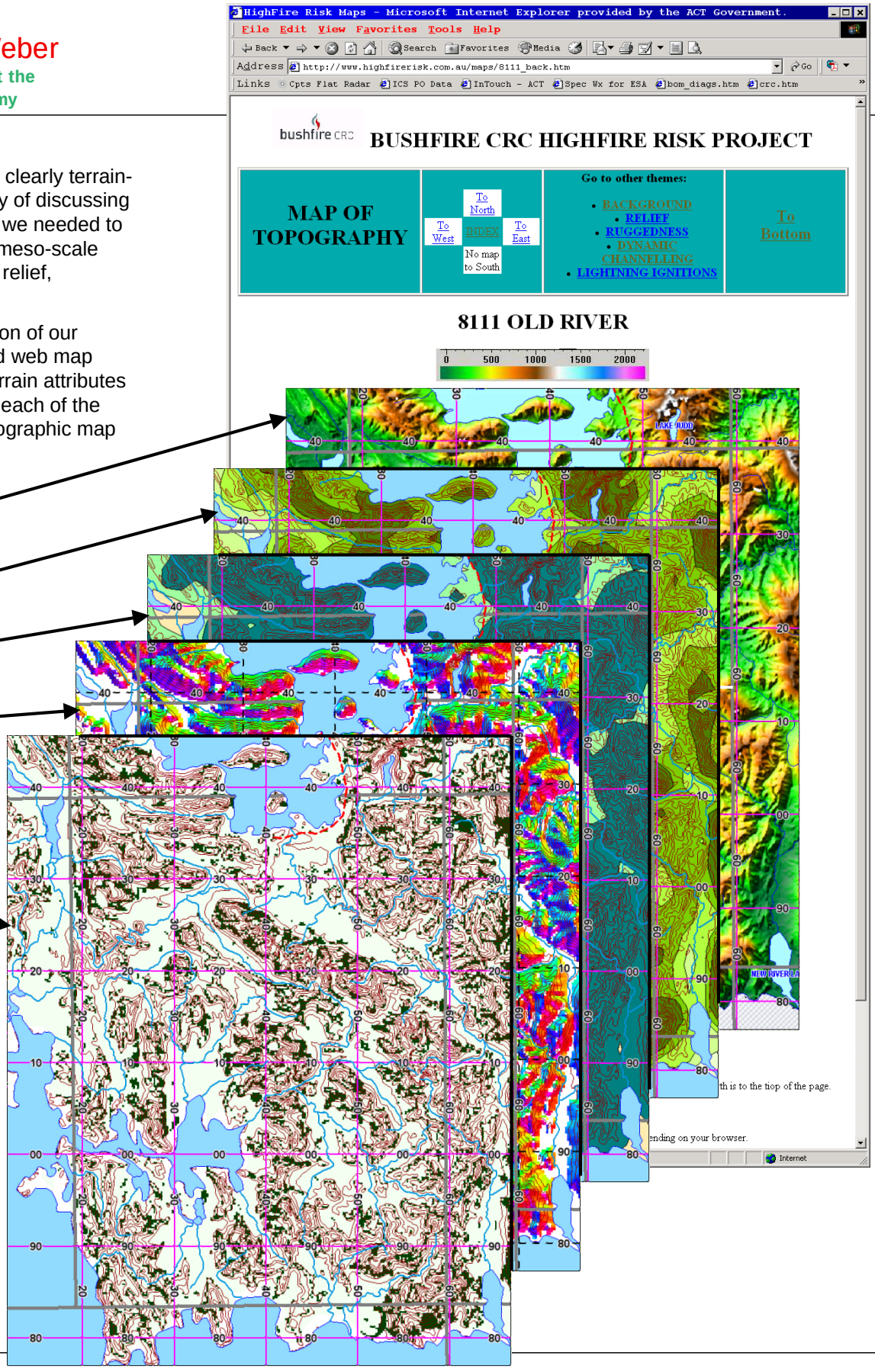
Introduction

Many of our research results are clearly terrain-linked. Rather than the usual way of discussing terrain (elevation, slope, aspect) we needed to refer to unusual characteristics: meso-scale elevation residual (MSER), local relief, ruggedness class, etc.

In order to permit ready application of our research finds, we have provided web map pages that show all of the key terrain attributes in an indexed series of maps for each of the relevant standard 1:100,000 topographic map sheet tiles.

Figures:

1. *Topography*
2. *Local relief: elevation range within a 1.5km radius domain.*
3. *Ruggedness: Classified relief.*
4. *Dynamic channelling prone lands: extensive polygons of colour indicate problem areas, the colour indicates the relevant wind direction.*
5. *Lightning ignition prone areas, based on MSER and ruggedness.*



The tiles are based on half degree increments of longitude and latitude (GDA94). They match the standard map sheet series maintained by Geoscience Australia.

They are currently on-line – see the link at:

http://www.bushfirecrc.com/research/program/highfire.html

(Topographic data: Geoscience Australia; Digital Elevation Model: Shuttle Radar Terrain Mission.)