

APPENDIX 6: THE PHOENIX RAPIDFIRE SYSTEM, TERMS OF USE, LIBRARIES AND SOURCES

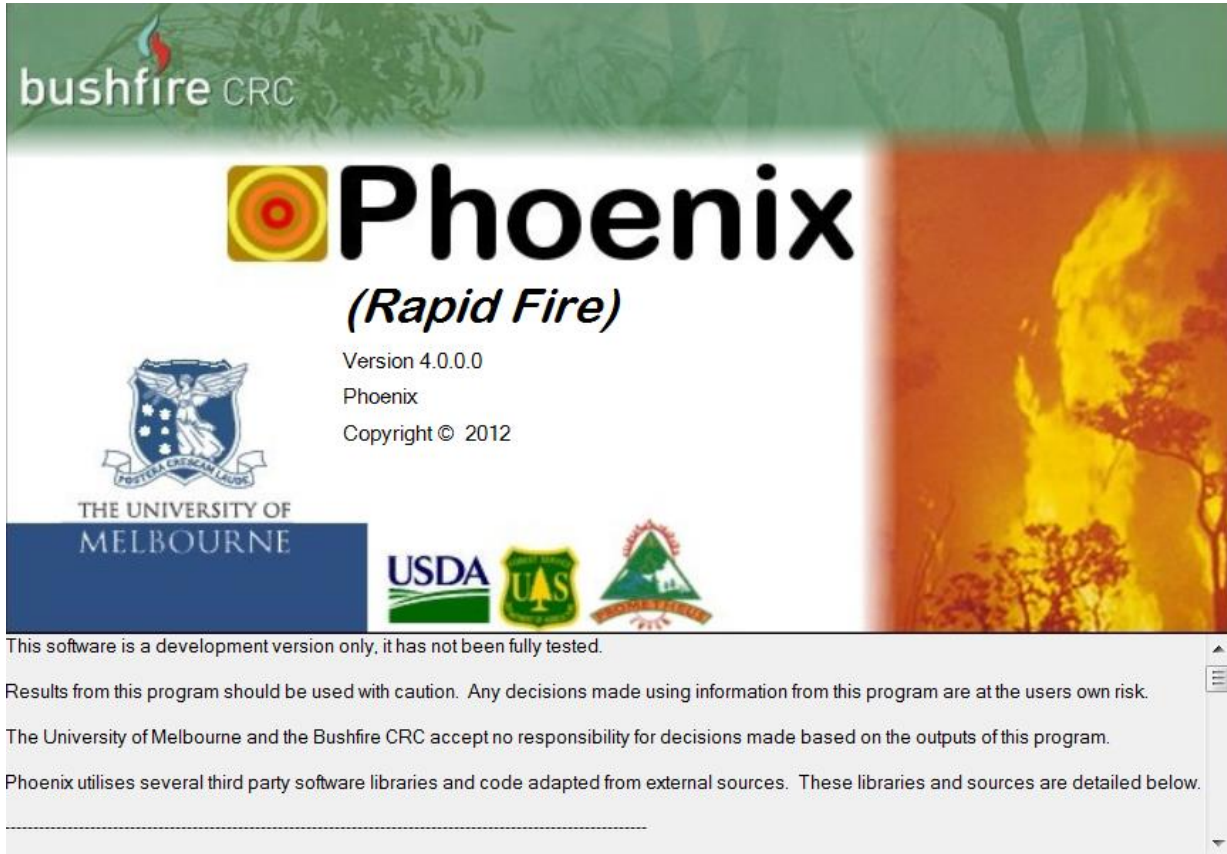


Figure 160. PHOENIX RapidFire: Opening page listing disclaimer and terms of use.

THE LIBRARIES AND SOURCES DETAILED IN PHOENIX V 4.0.0.0

SiroFire - N_GROW.PAS library (John Coleman -Version 1.167 June 1992)

Perimeter propagation mechanism within Phoenix is based on code within this library. Specifically, the method of determining positions of points on a new perimeter, which is described in detail on page 75-77 in this paper.

Knight I, Coleman J (1993) A Fire Perimeter Expansion Algorithm-Based on Huygens Wavelet Propagation. International Journal of Wildland Fire 3 , 73–84.

License and disclaimer pending....

Phoenix forest fine fuel moisture model has been adapted from Python script provided by Stuart Matthews - CSIRO which implements the model described in the paper below.

Matthews S, Gould J, McCaw L (2010) Simple models for predicting dead fuel moisture in eucalyptus forests. *International Journal of Wildland Fire* 19, 459–467.

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solrad.xls (version 1.0)

A solar position and radiation calculator for Microsoft Excel/VBA

Phoenix solar radiation functions have been derived from functions in this spreadsheet.

Greg Pelletier

Washington State Department of Ecology, Olympia, WA

The solar position calculations in this Excel/VBA application are a translation of NOAA's JavaScript solar position calculator. Documentation of the solar position calculations is available at NOAA's web page:

<http://www.srrb.noaa.gov/highlights/sunrise/azel.html>

Solar radiation calculations are based on the following publications:

Bird and Hulstrom's model from the publication "A Simplified Clear Sky model for Direct and Diffuse Insolation on Horizontal Surfaces" by R.E. Bird and R.L. Hulstrom, SERI Technical Report SERI/TR-642-761, Feb 1991. Solar Energy Research Institute, Golden, CO.

Bras, R.L. 1990. Hydrology. Addison-Wesley, Reading, MA.

Ryan, P.J. and K.D. Stolzenbach. 1972. Engineering aspects of heat disposal from power generation, (D.R.F. Harleman, ed.). R.M. Parson Laboratory for Water Resources and Hydrodynamics, Department of Civil Engineering, Massachusetts Institute of Technology, Cambridge, MA.

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NetCDF 3.6.1(<http://www.unidata.ucar.edu/software/netcdf/>)

VB.Net wrapper by (Wieczorrek, C.; J. Planar Chromatogr. 18 (2005) 181-187 (<http://www.mn-net.com/tabid/10845/default.aspx>))

Used to interrogate netCDF weather grids supplied from the Bureau Of Meterology

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Shapelib V1.2.10 (<http://shapelib.maptools.org/>)

Used to export simulation results (isochrones, grid cells), fires as points, and generate ignition grid

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DotNetZip Library 1.9.1.5 (<http://dotnetzip.codeplex.com/>)

Used to generate and read Phoenix data files, compress batch simulation results, compress google earth outputs from .kml to .kmz

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Proj.Net 1.2

<http://projnet.codeplex.com/>

Use to reproject coordinates into Lat/Lon for Google Earth and solar radiation calculation

License: GNU Library General Public License (LGPL)

Version 2.1, February 1999

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