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


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.

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.


License and disclaimer pending....

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:


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NetCDF 3.6.1(http://www.unidata.ucar.edu/software/netcdf/)
Used to interrogate netCDF weather grids supplied from the Bureau Of Meterology

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------------------------------------------------------------------
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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

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Version 2.1, February 1999

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