NGR Converter
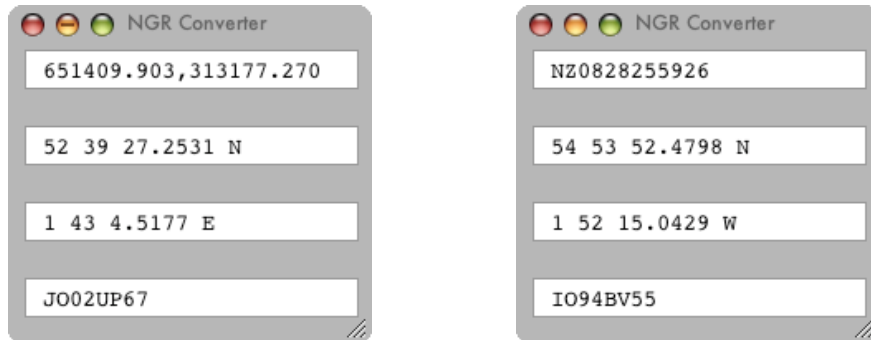
Version 1.1   **16 March 2006**

Summary

NGR Converter is a **National Grid Reference** to latitude and longitude converter.

The widget converts between British National Grid References, latitude and longitude, and IARU Locators.

Description

The widget provides four text boxes.

The uppermost box is used for the entry and display of National Grid References.

The middle two boxes are used for the entry and display of latitudes and longitudes.

The lowest box is for the entry and display of IARU Locators. It is also used for the display of convergences and scales.

National Grid References can be entered in either a numeric or an alphanumeric format.

The numeric format should be a comma-separated pair of **eastings** and **northings** where both are in metres from the (false) origin.
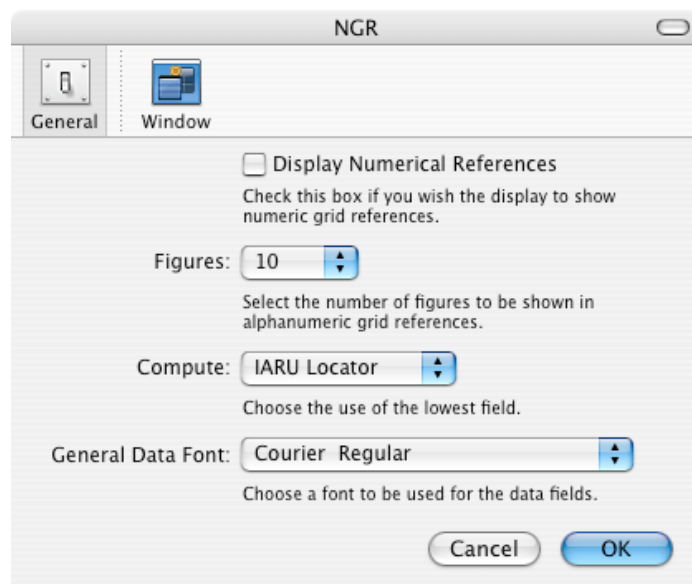
The alphanumeric format can be a 2, 4, 6, 8 or 10 figure National Grid Reference with a two letter prefix.

References can be entered in either format, but there are preferences to specify the format used for display.

There are also preferences to compute convergences and scales.

The *National Grid* coordinate system is based on the Airy 1830 ellipsoid and a Terrestrial Reference Frame (TRF) called OSGB36® (Ordnance Survey Great Britain 1936).

Preferences

Credits

The code is based partly on an Ordnance Survey® Information Booklet [1], which is now out of print.

A similar document [2] is currently available on the National GPS Network website <http://www.gps.gov.uk/>.

The Ordnance Survey® website is at <http://www.ordnancesurvey.co.uk/>.

References:

[1]   "Transverse Mercator Projection, Constants, Formulae and Methods", Ordnance Survey® Information Booklet, March 1983.
[2]   "A guide to coordinate systems in Great Britain", Ordnance Survey®, May 2002.

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Widget Design and Coding

This program and associated documentation are Copyright 1989-2005 Harry Whitfield.

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NGR Converter - National Grid Reference to Latitude and Longitude
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