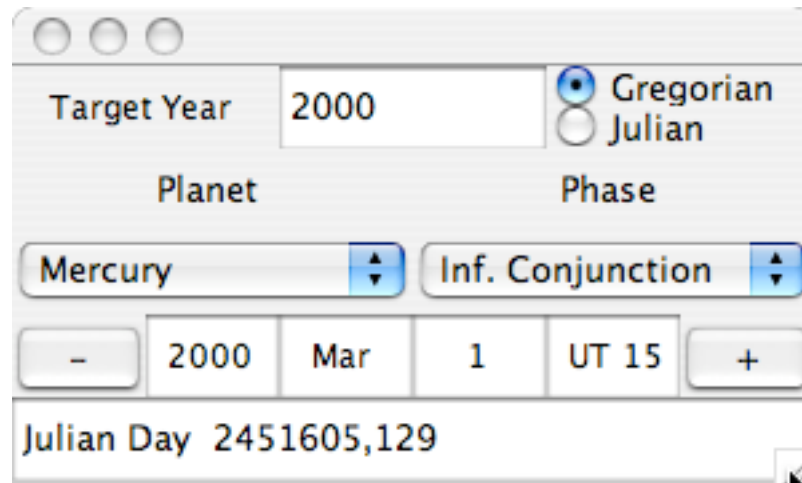


Phenomena 1.0

This application is an implementation of *Jean Meeus: Astronomical Algorithms*, Willman-Bell, Inc. ISBN 0-943396-61-1. p. 249-262.

The application is started by double-clicking the application icon.

The image shows a screenshot of the 'Phenomena 1.0' application window. The window has a standard Mac OS X title bar with three buttons (red, yellow, green) in the top-left corner. The main interface is organized into several sections. At the top, there is a 'Target Year' field containing the number '2000'. To its right are two radio buttons: 'Gregorian' (which is selected) and 'Julian'. Below these are two columns of labels: 'Planet' and 'Phase'. Under 'Planet' is a pop-up menu showing 'Mercury'. Under 'Phase' is a pop-up menu showing 'Inf. Conjunction'. Below these two columns is a row of five input fields: a minus button, '2000', 'Mar', '1', and 'UT 15', followed by a plus button. At the bottom of the window is a large text field displaying 'Julian Day 2451605,129'. A small cursor icon is visible at the bottom-right corner of the window.

You can change the target year by editing the top slot. You can also there change between Gregorian and Julian calendars.

In the Planet slot you can use the pop-up menu to choose the appropriate planet. In the Phase slot you can in a similar way choose the phenomenon you want to investigate. The bottom slot will display date and time for the occasion of the chosen event nearest to the target year. By clicking the + and - arrows you can step forward and backward in time. The east and west maximum elongations of Venus and Mercury will be displayed numerically in the bottom slot if these options are selected.