

famulus-viz specimen

The measurements of the conical sundial ObjID18 (paper *sundial-measurements*) are redrawn here with the famulus presets, from the same parameter file the matplotlib figures were made from.

Hour-angle steps

Equal hours would put adjacent hour marks 15° apart on the equinoctial day-line; the measured steps scatter around that value, and the three steps below 14° are adjacent (intervals 5 to 7).

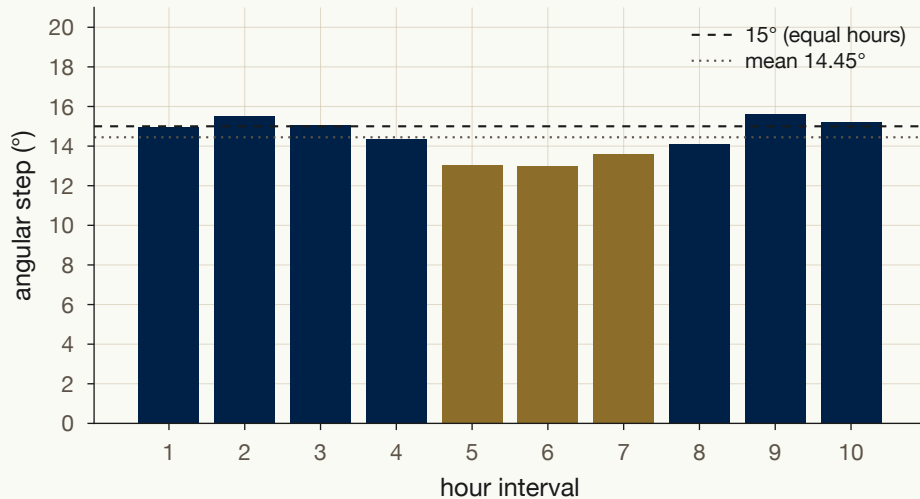


Figure 1: Angular steps between adjacent hour marks along the equinoctial day-line; steps below 14° are drawn in gold.

Day-circle radii and the cone

The three day-lines are circles of one cone: their radii fall linearly with the axial position, and the fitted generatrix meets the axis at the apex.

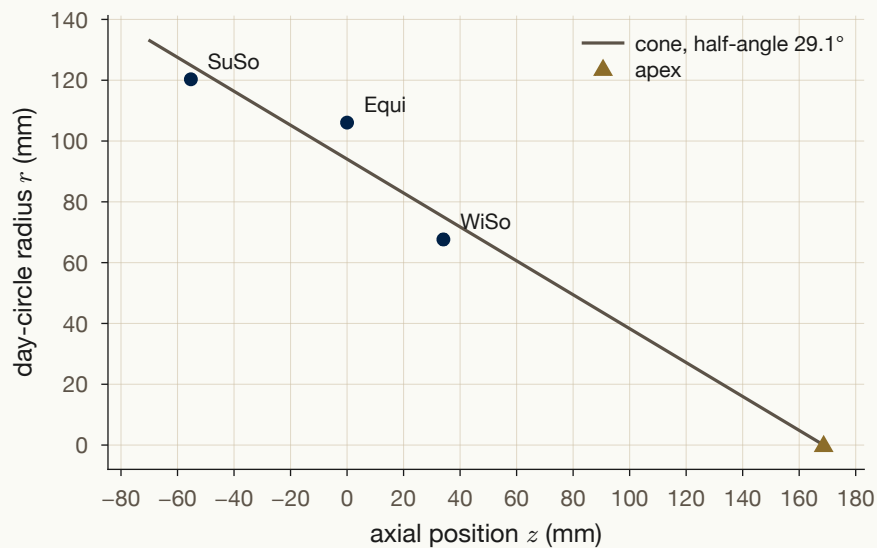


Figure 2: Day-line radii against axial position with the fitted cone generatrix and the extrapolated apex.

Presets

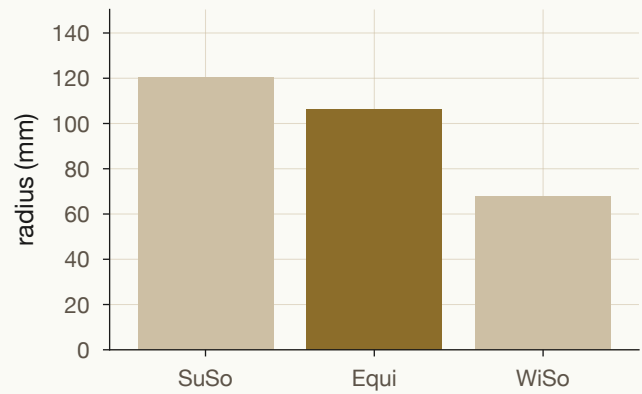


Figure 3: The bar preset: radii of the three day-circles, the equinoctial one marked.

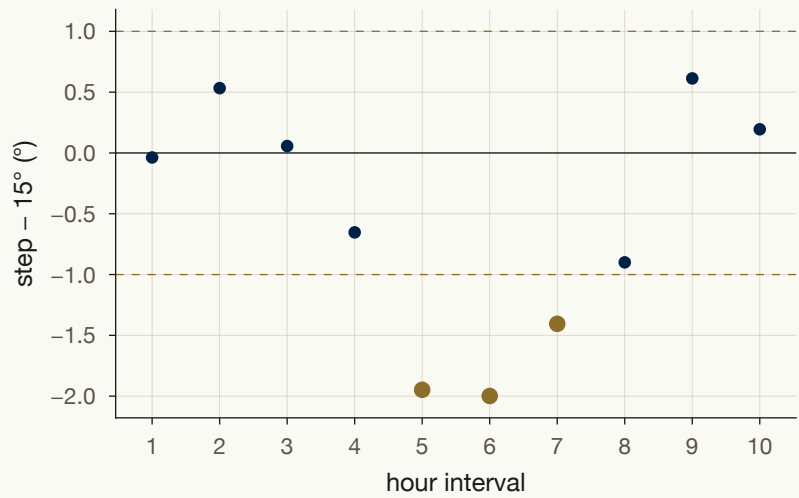


Figure 4: The residual preset: deviation of each hour step from 15°; the dashed lines at $\pm 1^\circ$ are a reading aid, and the steps beyond them are drawn in gold. The parameter file gives no per-step uncertainty, so none is drawn.

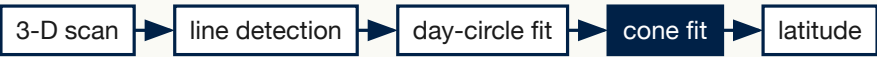


Figure 5: The flow preset: the measurement steps of the sundial pipeline, the cone fit marked.

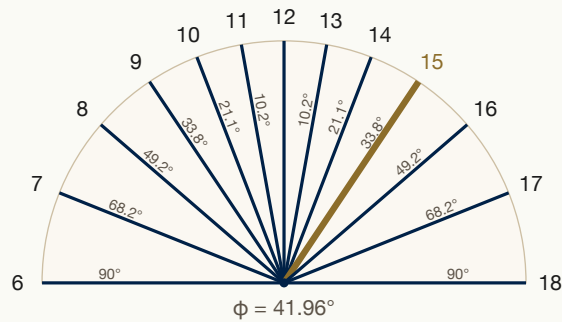


Figure 6: The geometry preset: hour lines of a horizontal dial laid out for the latitude derived from ObjID18 (an illustration, not the object itself).