ALFA BEAM CONFIGURATIONS ON THE SKY

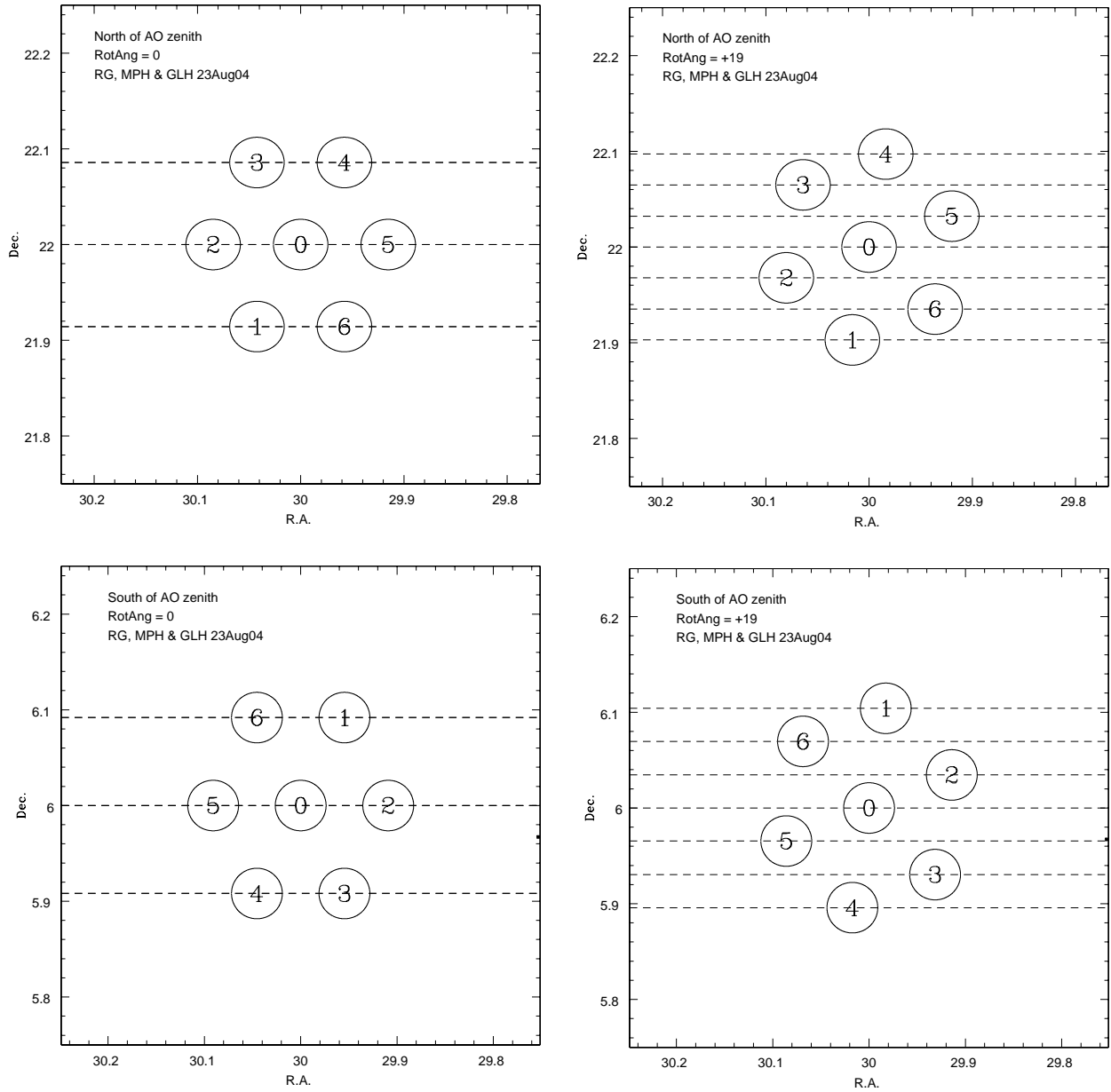Riccardo Giovanelli, Martha Haynes and Lyle Hoffman   23 August 2004

Figure 1: Cartoon ALFA beam projections on the sky for sources at transit (on the meridian). Upper left: for a source north of AO zenith, with the feed array angle set to 0°. Lower left: for a southern source, with ROTANG = 0°. Upper right: northern source, with ROTANG = +19°. Lower right: southern source, also rotated to +19°. With this choice of ROTANG, the beams are equally spaced on the sky for drift scanning, as illustrated by the constant declination tracks shown as the dashed lines. **Note:** ALFA beam patterns are elliptical (not circular, as shown in the simplified representation shown here)!