

DR21

Figure 1 is the new map of DR21 with pointing corrections from pointcorr (IDL pointing program) added. Pointcorr was run on all images that contained the center of DR21 Main. The pointing correction for all other images was interpolated from the image of DR21 Main that was before and after. The field in the SE still does not agree with Hertz as can be seen in figure 2. Splitting the eight SHARP files of that field into two groups did not show any difference (note: the vectors shown in the following plots are only 2.5σ) (see figure 3) Looking at the Hertz data, there are two ranges of Parallaxial Angle the observations were taken at. The first which had 11 files had a PA between -51 and -65, whereas the second was between 11 and 29 and had 6 files. Overplotting the Hertz vectors with the 6 files in the second set removed returns figure 4. Removing the 11 files from the sample with a Parallaxial angle between -51 and -65 returns figure 5.

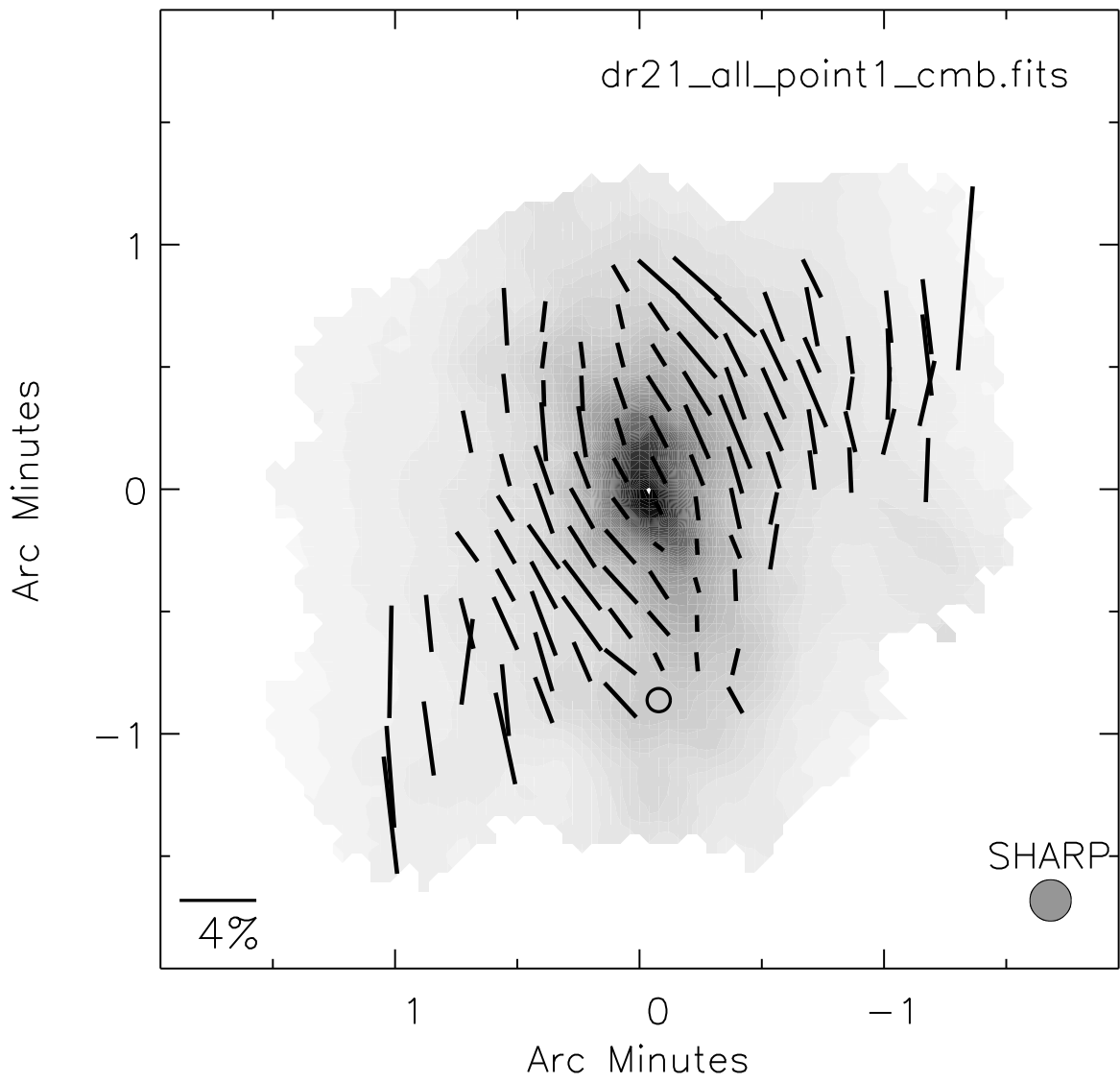


Fig. 1.— New plot of DR21 with pointing corrections

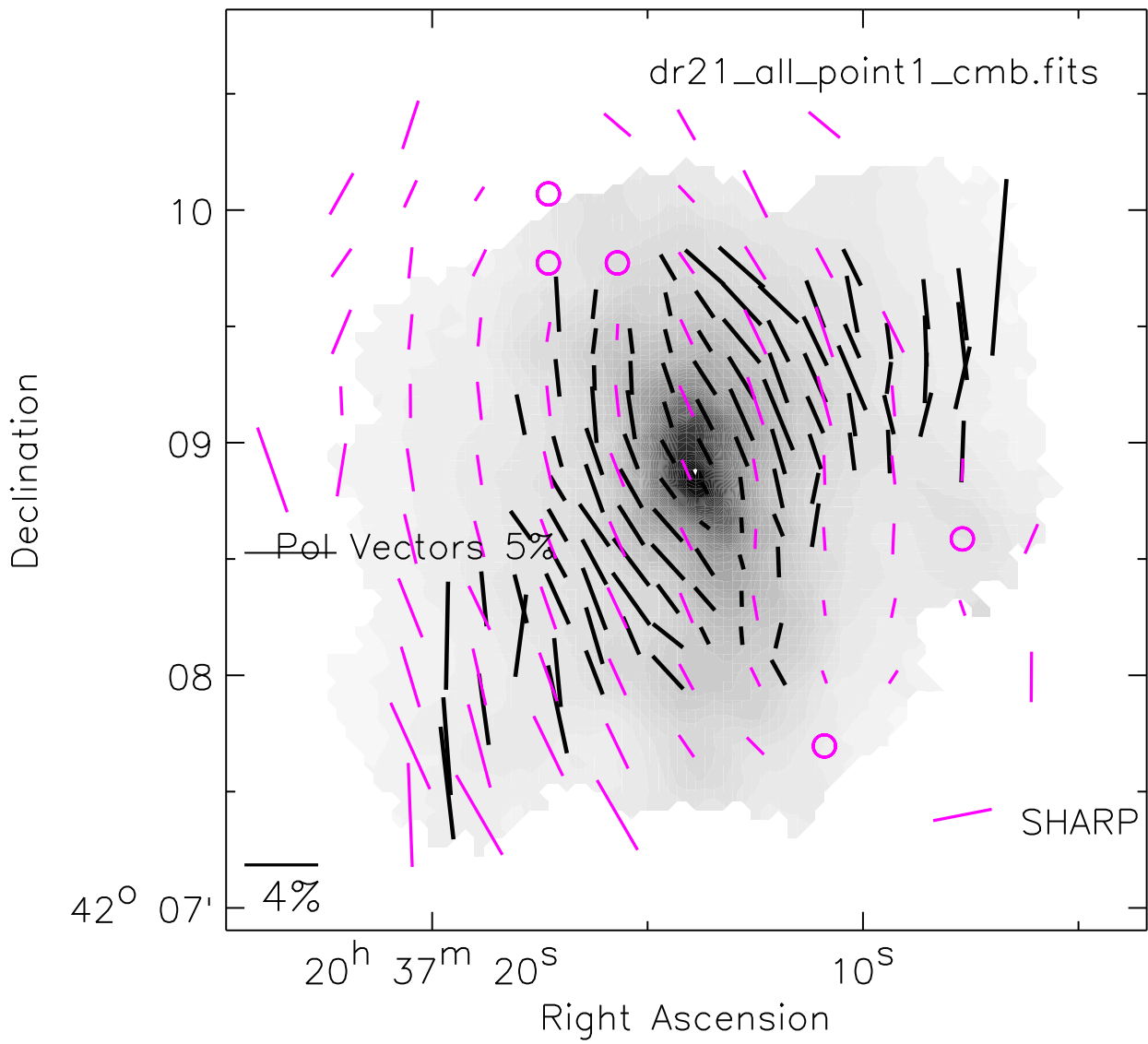


Fig. 2.— Point corrected SHARP with Hertz vectors overlaid

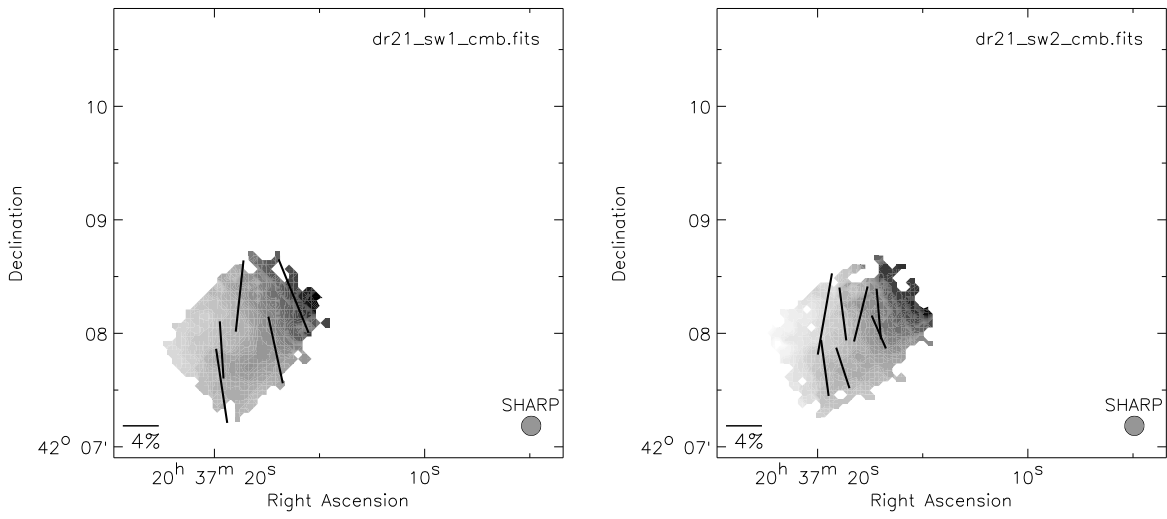


Fig. 3.— Two 4 file subsets of SE field

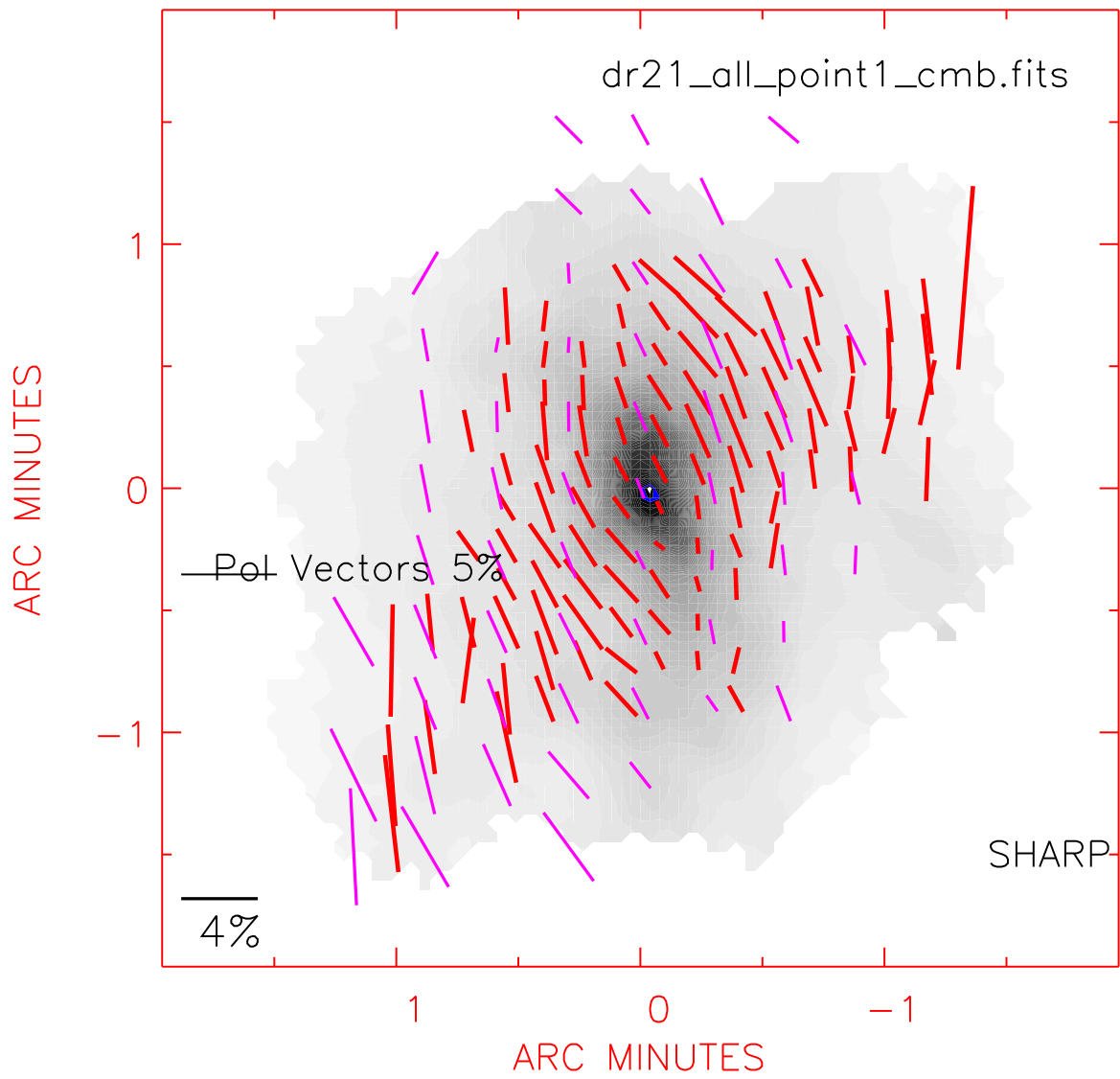


Fig. 4.— DR21 SHARP and Hertz vectors without 6 files of SE field with PA between 11 and 29

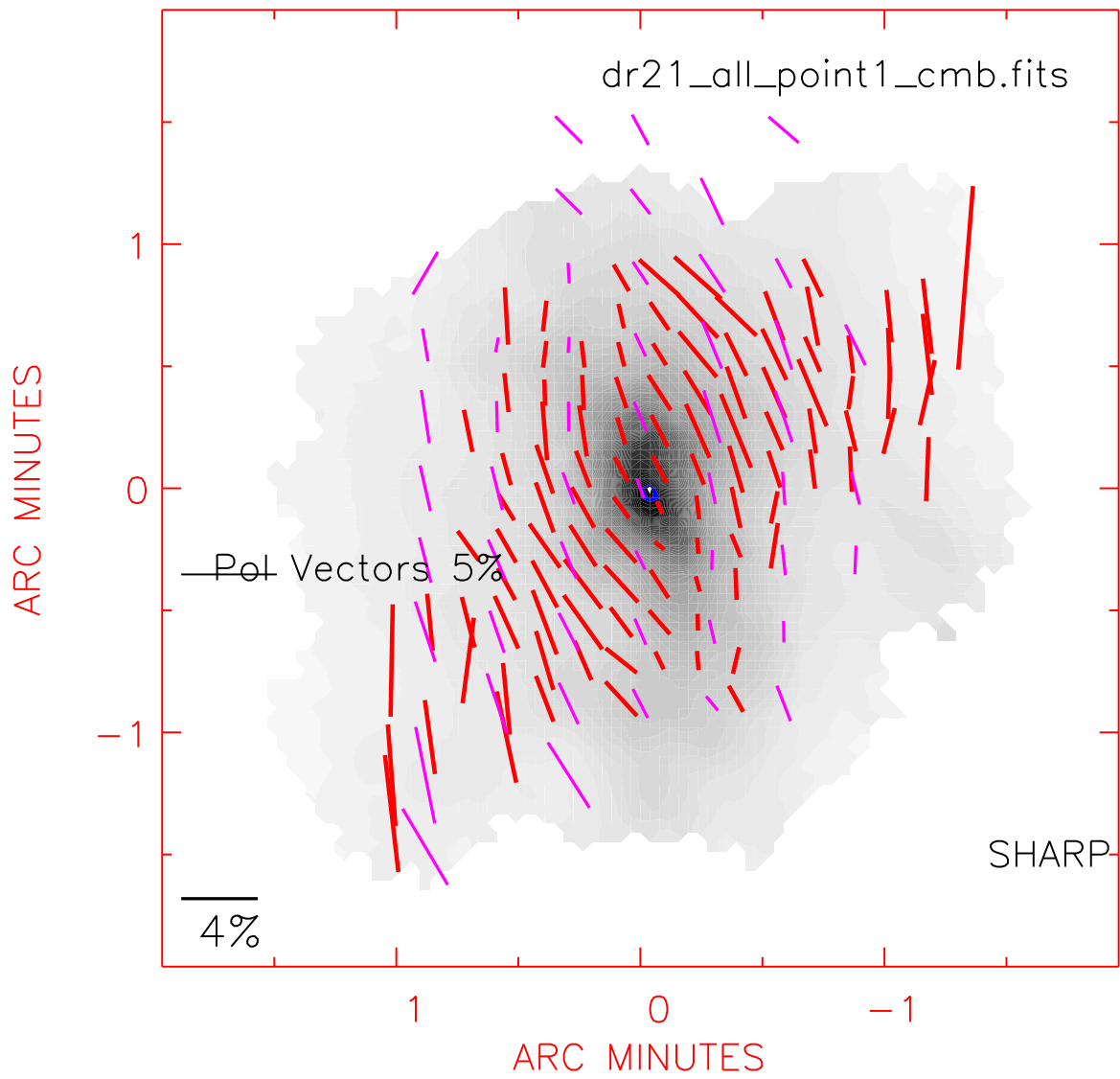


Fig. 5.— DR21 SHARP and Hertz vectors without 6 files of SE field with PA between -51 and -65