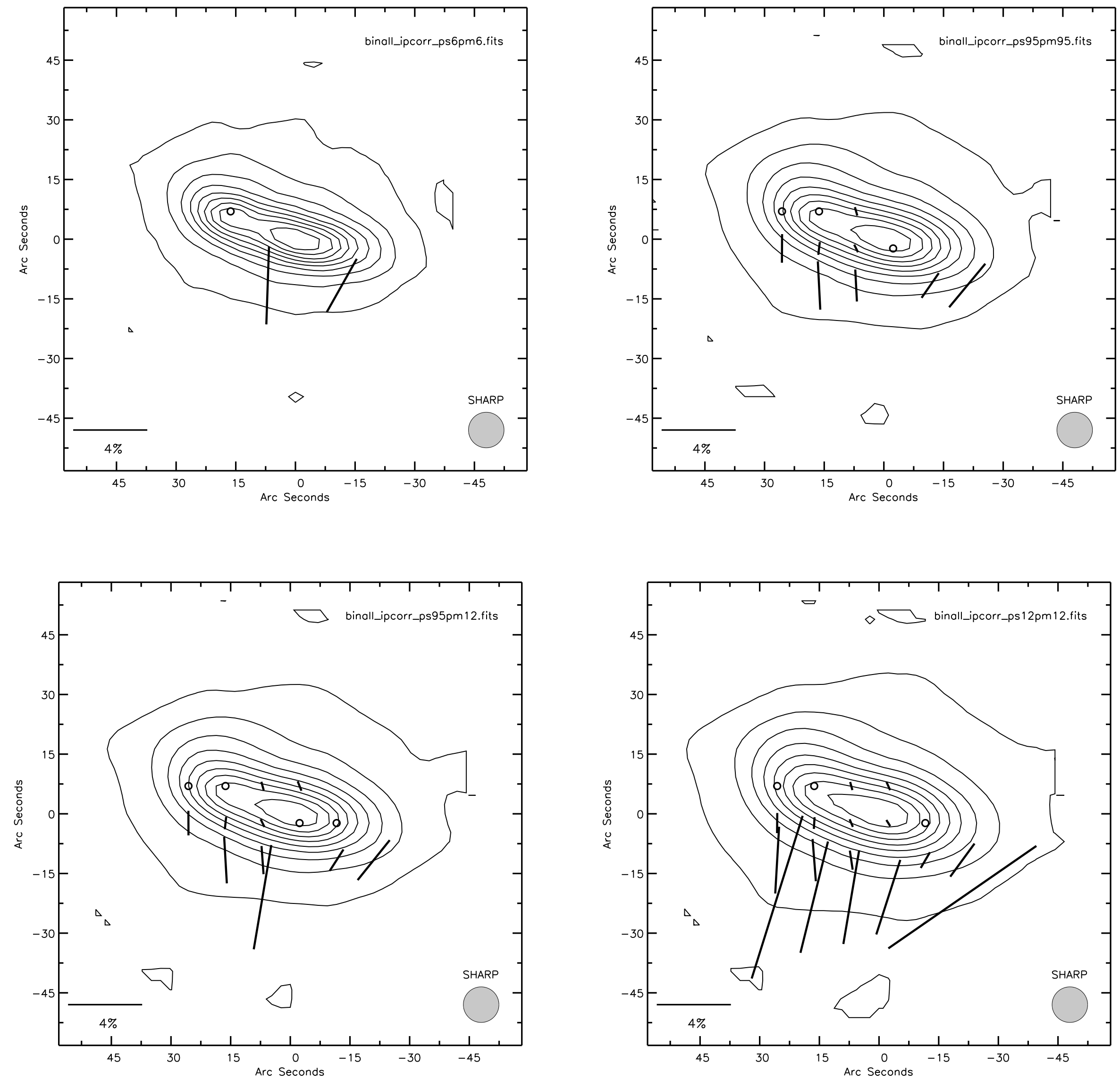

Fig. 1.— Polarized continuum maps of M 82 combined from 55 SHARP observing cycles that were obtained in February and April 2007 and have been corrected for pointing drifts, sky opacity, and instrument polarization. The maps were reduced with SHARP_COMBINE4 and plotted with POLSHARP4 (/vec, xvoffset=2, onep=.75), the SHARP software tools. SHARP_COMBINE4 parameters were used as follows: -pm 6 -ps 6 (*top left*), -pm 9.5 -ps 9.5 (*top right*), -pm 9.5 -ps 12 (*Bottom left*), and -pm 12 -ps 12 (*Bottom right*), to explore the best “pm” and “ps” parameter combination for making these plots.

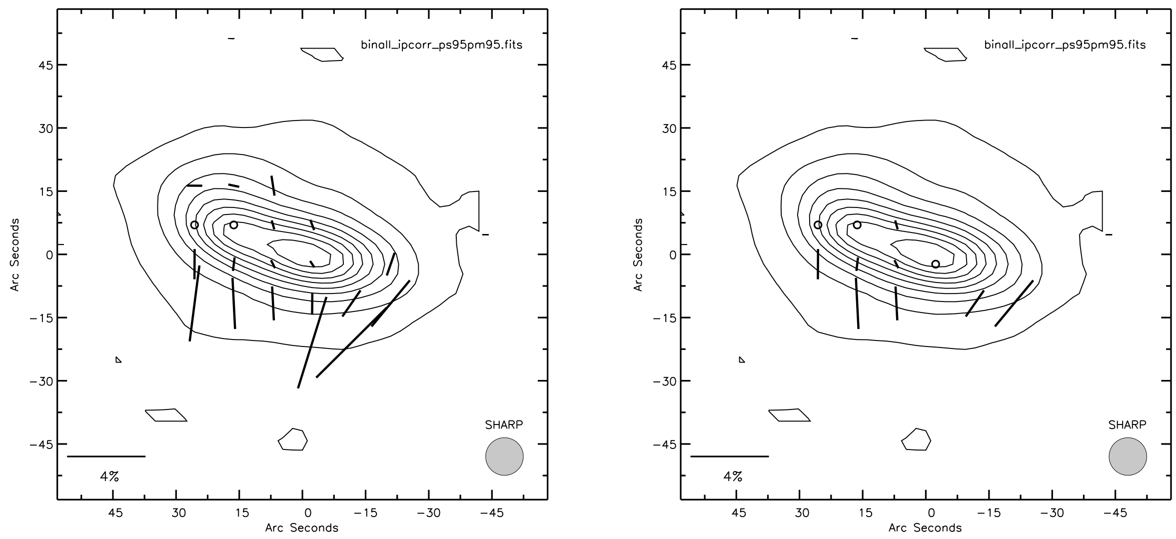

Fig. 2.— Polarized continuum maps of M 82 combined from 55 SHARP observing cycles that were obtained in February and April 2007 and have been corrected for pointing drifts, sky opacity, and instrument polarization. The maps were reduced with SHARP_COMBINE4 (-pm 9.5 -ps 9.5) and plotted with POLSHARP4 (/vec, xvoffset=2, onep=.75), the SHARP software tools. Additional POLSHAR4 parameters were used as follows: magsig=2 (*left*), magsig=3 (*right*), to explore sigma 2 versus 3 polarization vectors.

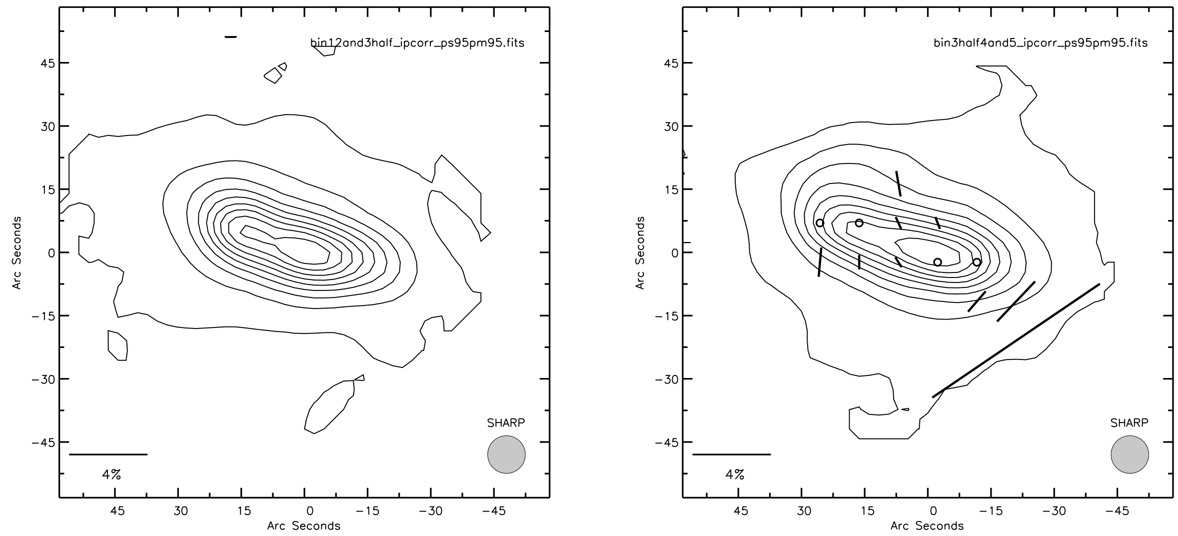

Fig. 3.— Polarized continuum maps of M 82 combined from 55 SHARP observing cycles that were obtained in February and April 2007 and have been corrected for pointing drifts, sky opacity, and instrument polarization. The maps were reduced with SHARP_COMBINE4 (-pm 9.5 -ps 9.5) and plotted with POLSHARP4 (/vec, xvoffset=2, onep=.75), the SHARP software tools. The 55 cycles were divided into the first 28 (*left*), and remaining 27 (*right*), cycles to explore if the first and second separate sets could produce similar polarization vectors.

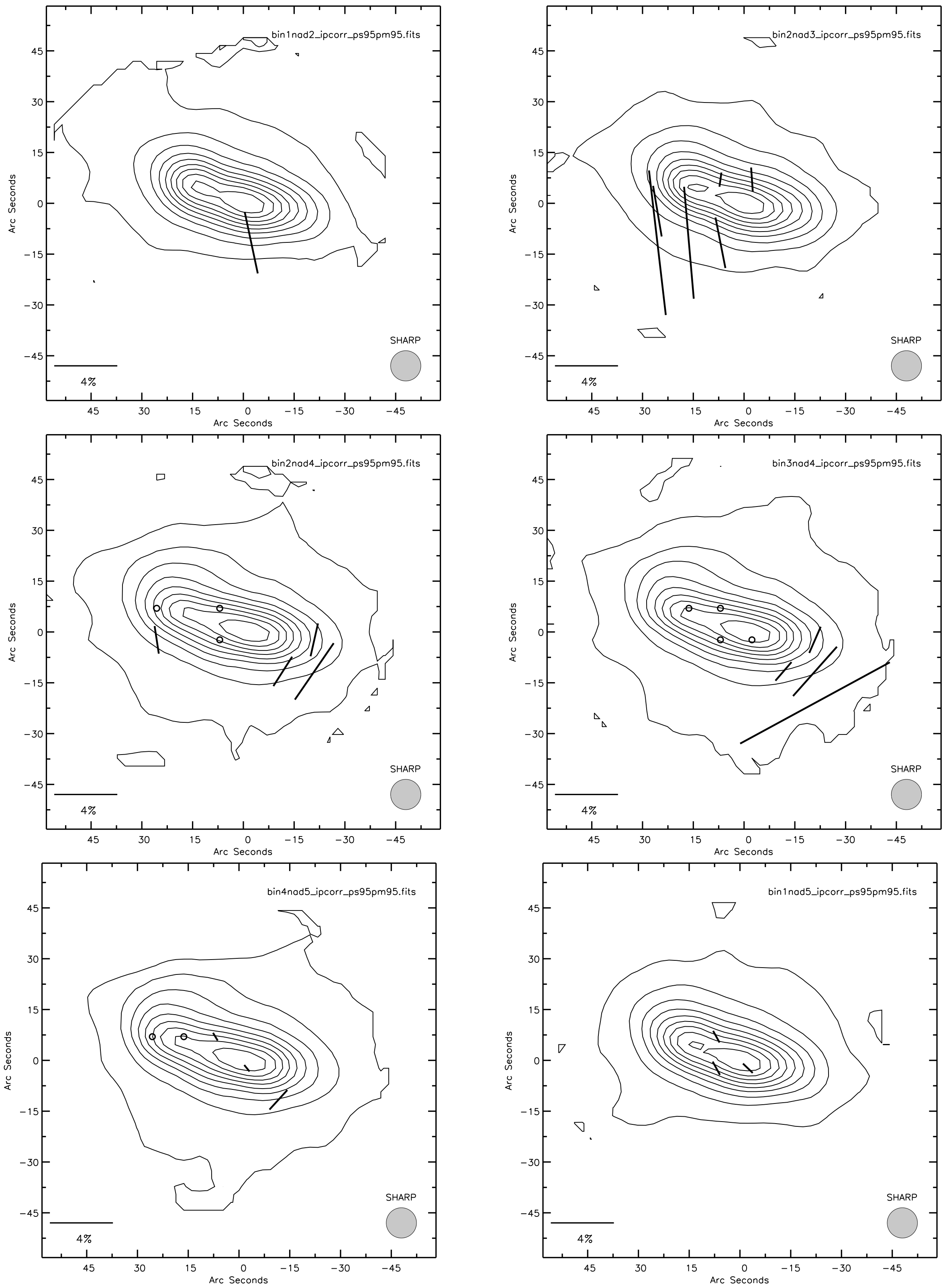

Fig. 4.— Polarized continuum maps of M 82 combined from 55 SHARP observing cycles that were obtained in February and April 2007 and have been corrected for pointing drifts, sky opacity, and instrument polarization. The maps were reduced with SHARP_COMBINE4 (-pm 9.5 -ps 9.5) and plotted with POLSHARP4 (/vec, xvoffset=2, onep=.75), the SHARP software tools. The 55 cycles were divided into five separate bins of 11 observing files each. The following two-bin (or 22 files/cycles) combinations are plotted: bins 1 and 2 (*top left*), bins 2 and 3 (*top right*), bins 2 and 4 (*middle left*), bins 3 and 4 (*middle right*), bins 4 and 5 (*top left*), bins 1 and 5 (*bottom right*), to explore if the different two-bin combinations could produce similar polarization vectors.

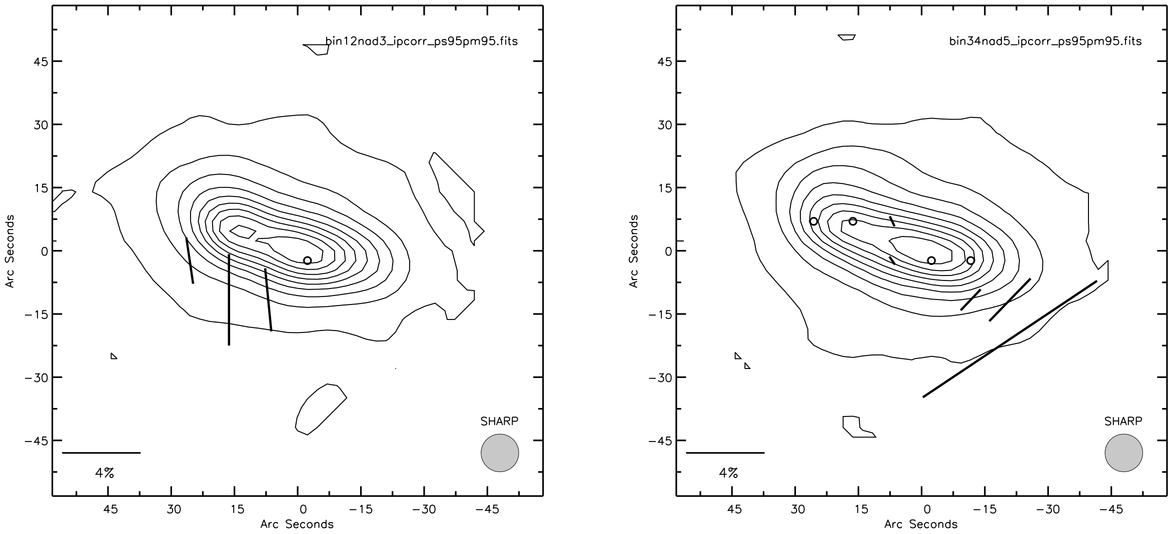

Fig. 5.— Polarized continuum maps of M 82 combined from 55 SHARP observing cycles that were obtained in February and April 2007 and have been corrected for pointing drifts, sky opacity, and instrument polarization. The maps were reduced with SHARP_COMBINE4 (-pm 9.5 -ps 9.5) and plotted with POLSHARP4 (/vec, xvoffset=2, onep=.75), the SHARP software tools. The 55 cycles were divided into five separate bins of 11 observing files each. The following three-bin (or 33 files/cycles) combinations are plotted: bins 1,2, and 3 (*left*) and bins 3,4 and 5 (*right*), to explore if the different three-bin combinations could produce similar polarization vectors.

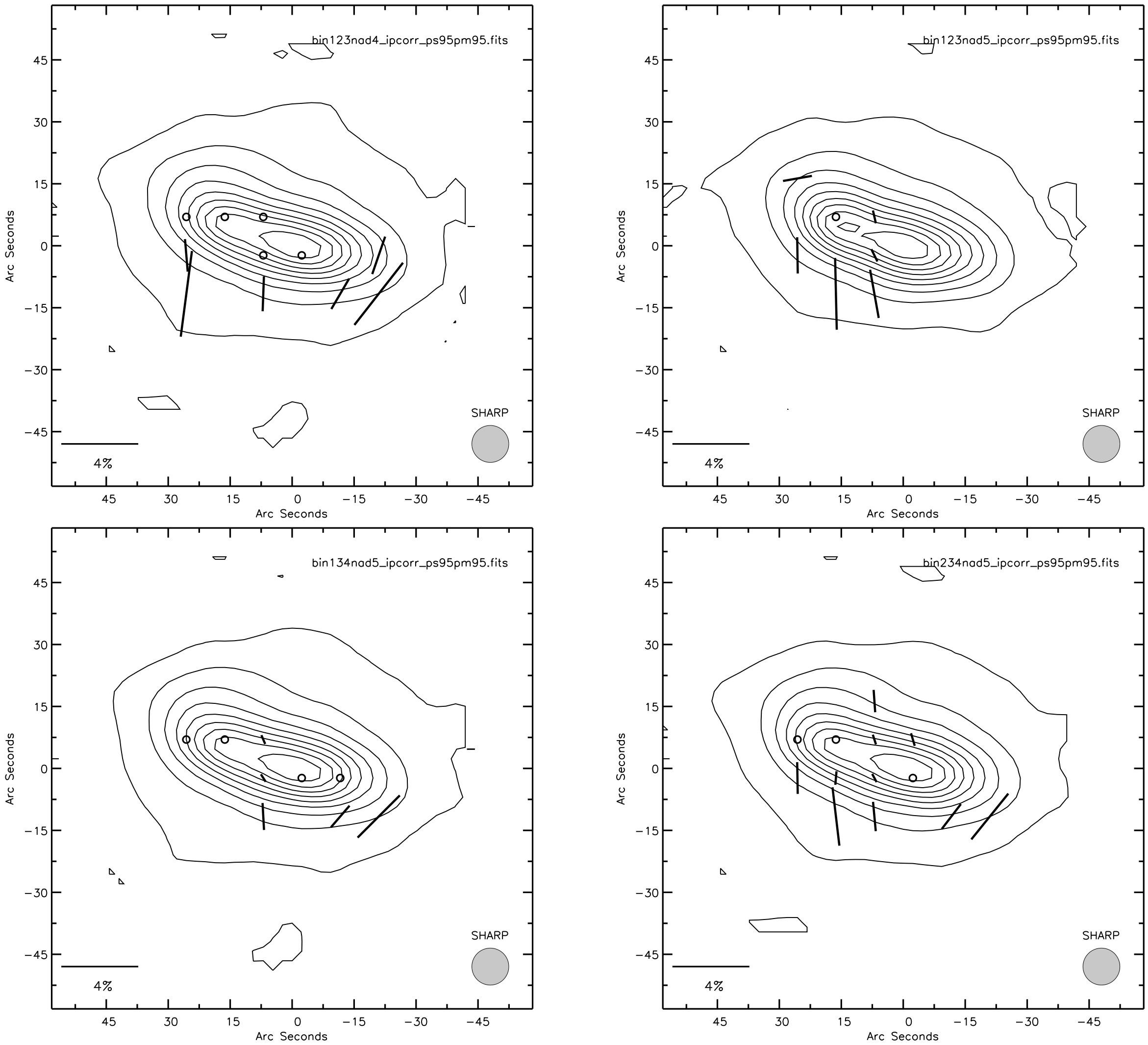

Fig. 6.— Polarized continuum maps of M 82 combined from 55 SHARP observing cycles that were obtained in February and April 2007 and have been corrected for pointing drifts, sky opacity, and instrument polarization. The maps were reduced with SHARP_COMBINE4 (-pm 9.5 -ps 9.5) and plotted with POLSHARP4 (/vec, xvoffset=2, onep=.75), the SHARP software tools. The 55 cycles were divided into five separate bins of 11 observing files each. The following four-bin (or 44 files/cycles) combinations are plotted: bins 1,2,3 and 4 (*top left*), 1,2,3 and 5 (*top right*), bins 1,3,4 and 5 (*bottom left*), bins 2,3,4 and 5 (*bottom right*), to explore if the different four-bin combinations could produce similar polarization vectors.