

Filaments from the MSPM Groups and Clusters

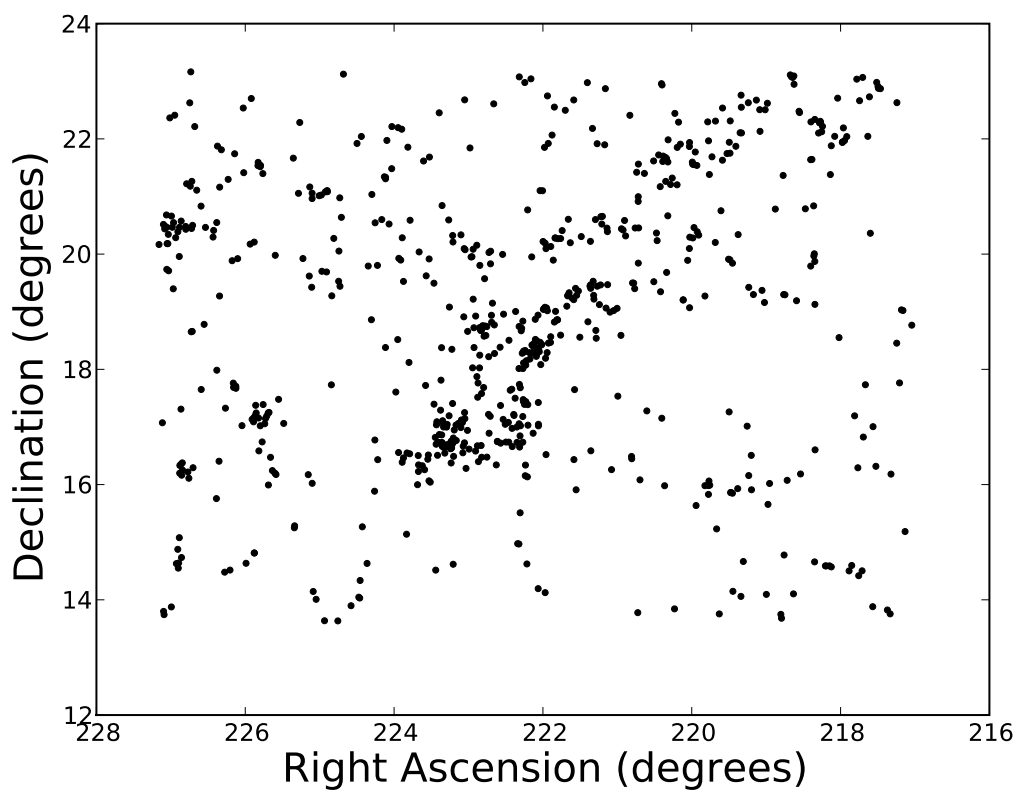
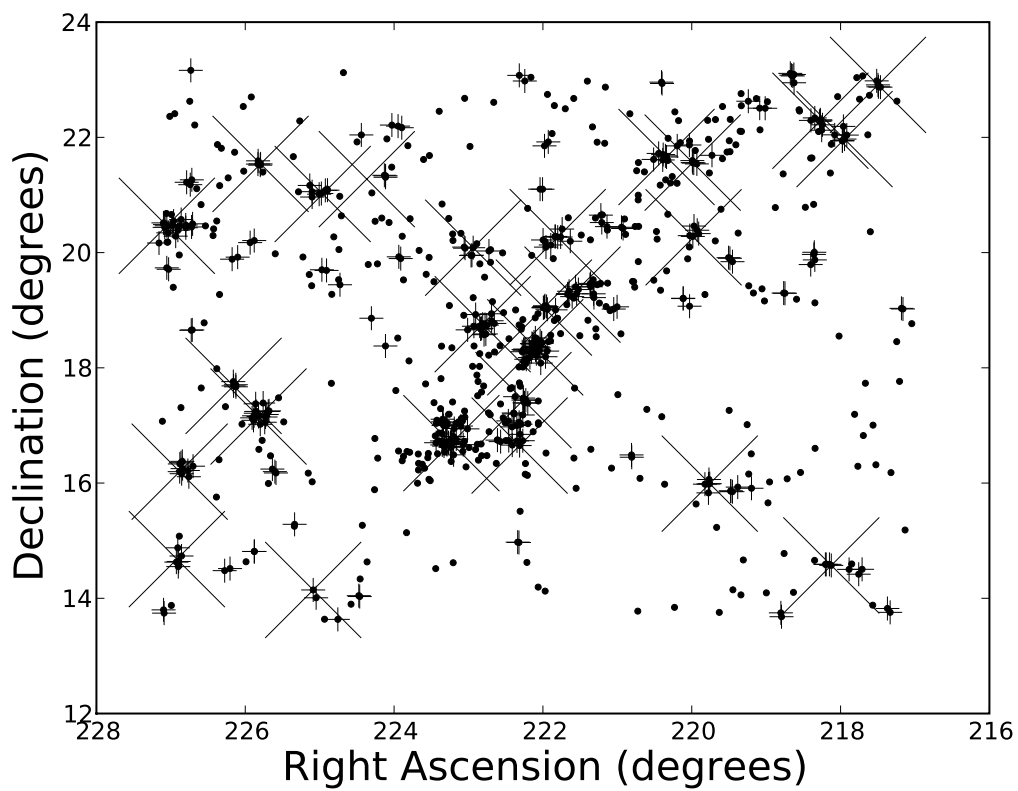
Figures to accompany “Multi-Scale Probability Mapping: groups, clusters and an algorithmic search for filaments in SDSS” by Smith, A. G. Hopkins, A. M. Hunstead, R. W. Pimbblet, K. A., in format similar to Figure 13.

See our paper for details. Briefly, elongation probabilities are calculated using MSPM structure positions only, in the vicinity of each structure, for the scales 2 to $10 h^{-1}$ Mpc in steps of $2 h^{-1}$ Mpc. Requiring that three of the five sampled scales has an elongation probability > 0.875 (7/8) yields 100 fields, 53 of which seem to contain filaments, featured here.

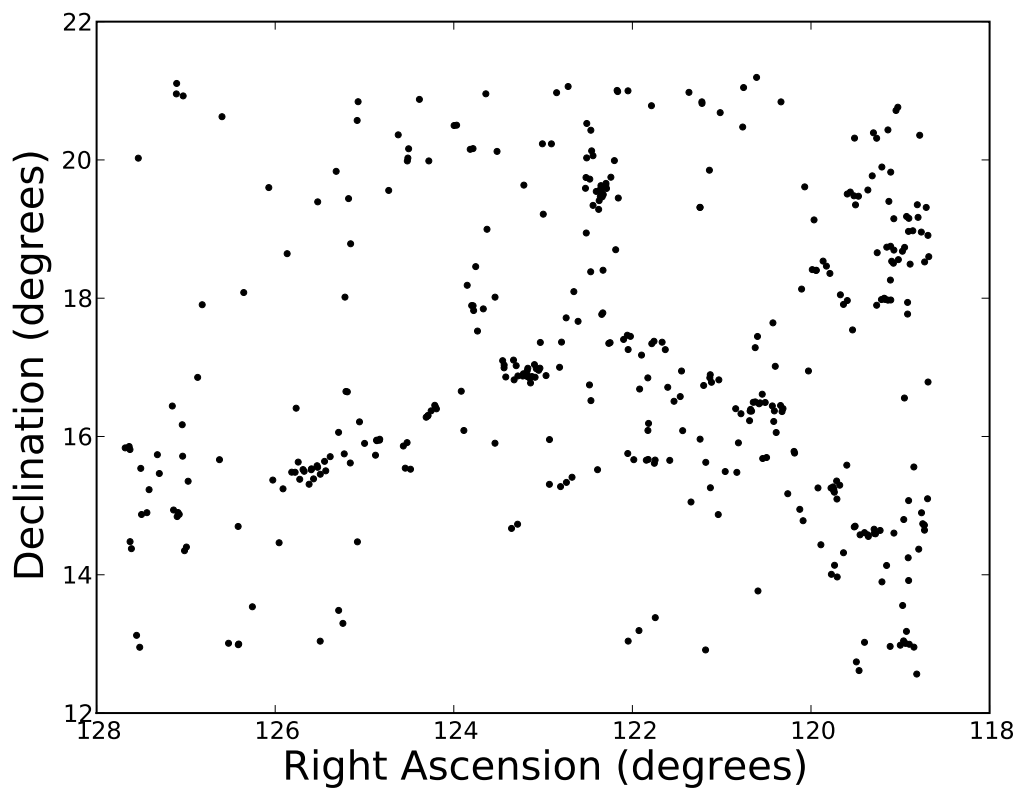
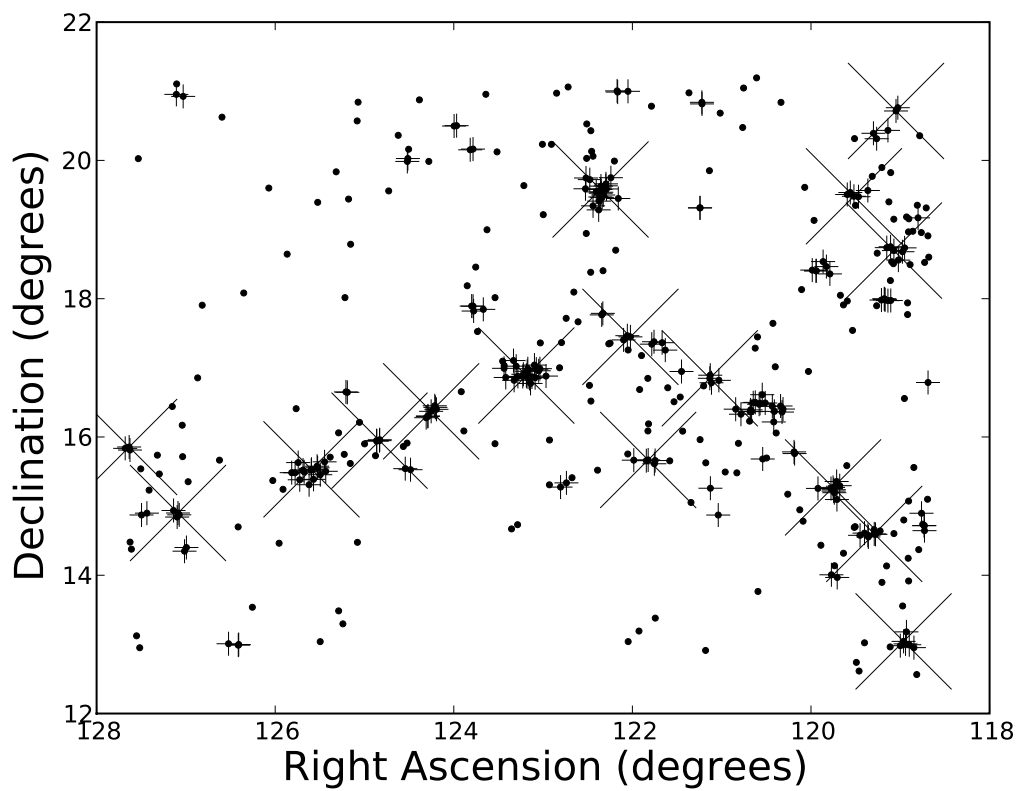
Each field shows a patch of sky centred on an MSPM structure, around which elongation probabilities have been found using neighbouring structures. The first figure for each field shows neighbouring structures (large crosses) and galaxies (dots) within a $10 h^{-1}$ Mpc radius on the sky and within a redshift radius $\Delta z = 0.005$. Galaxies with $P - S > 0.5$ are plusses. The second figure for each field shows only the galaxy positions.

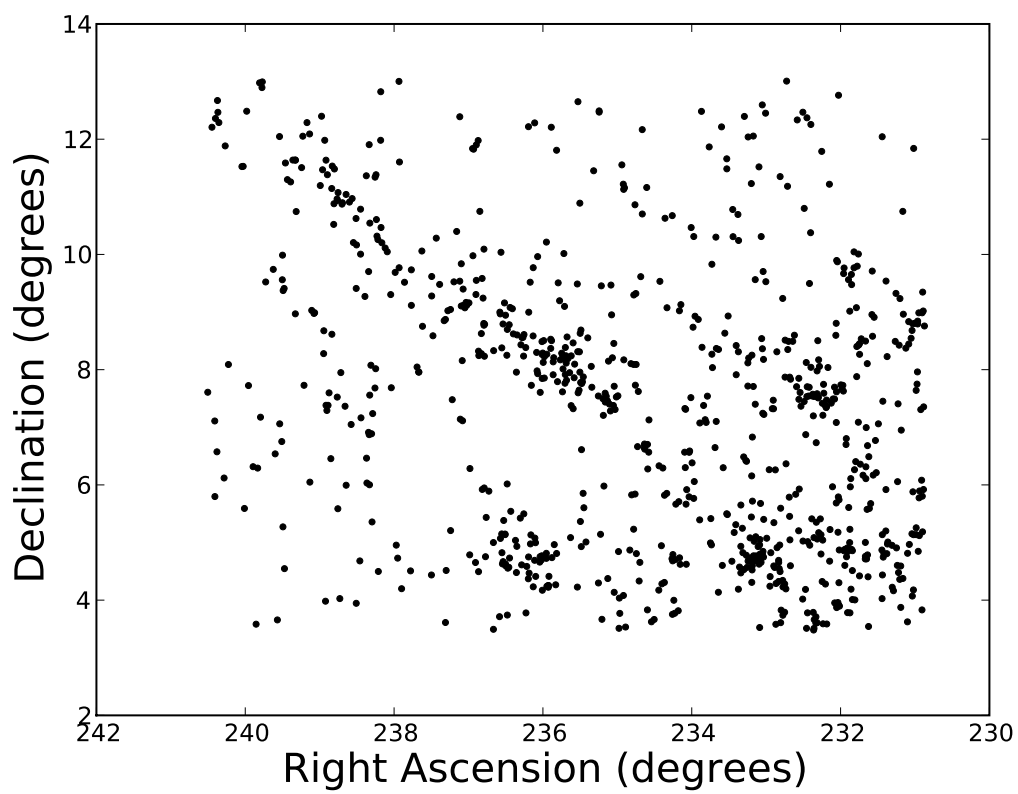
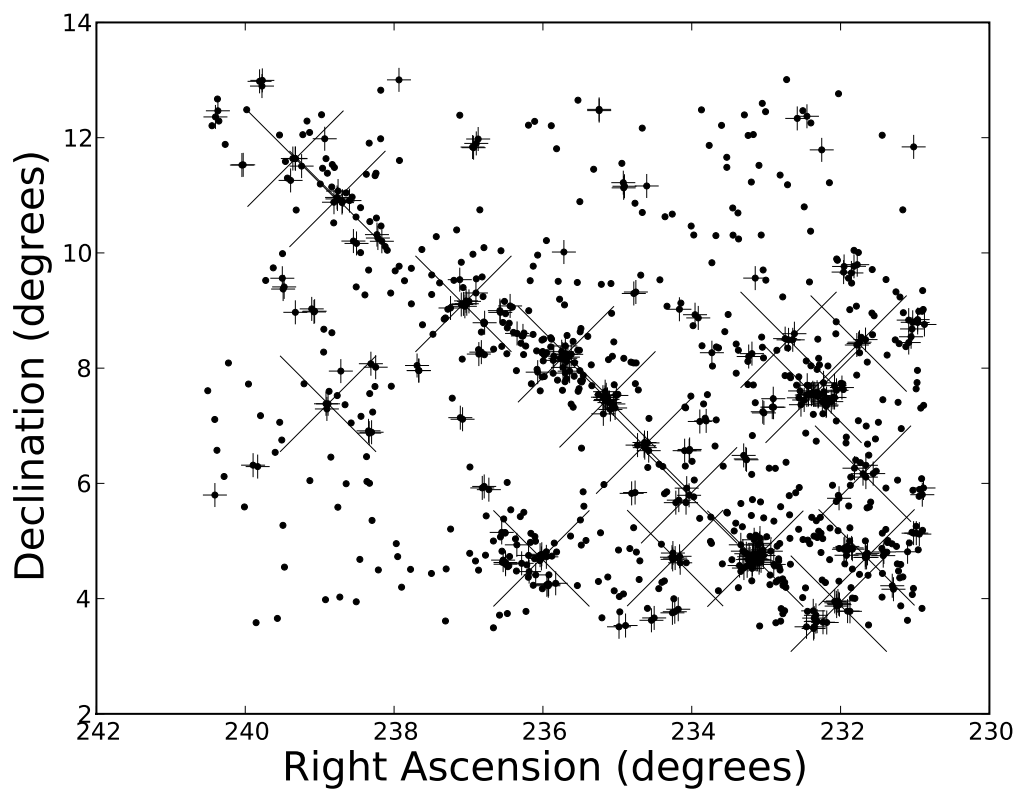
The n -th field is centred on the n -th MSPM structure. Some MSPM structures appear to have fewer than four member galaxies because they are close to the redshift limits of the cube shown.

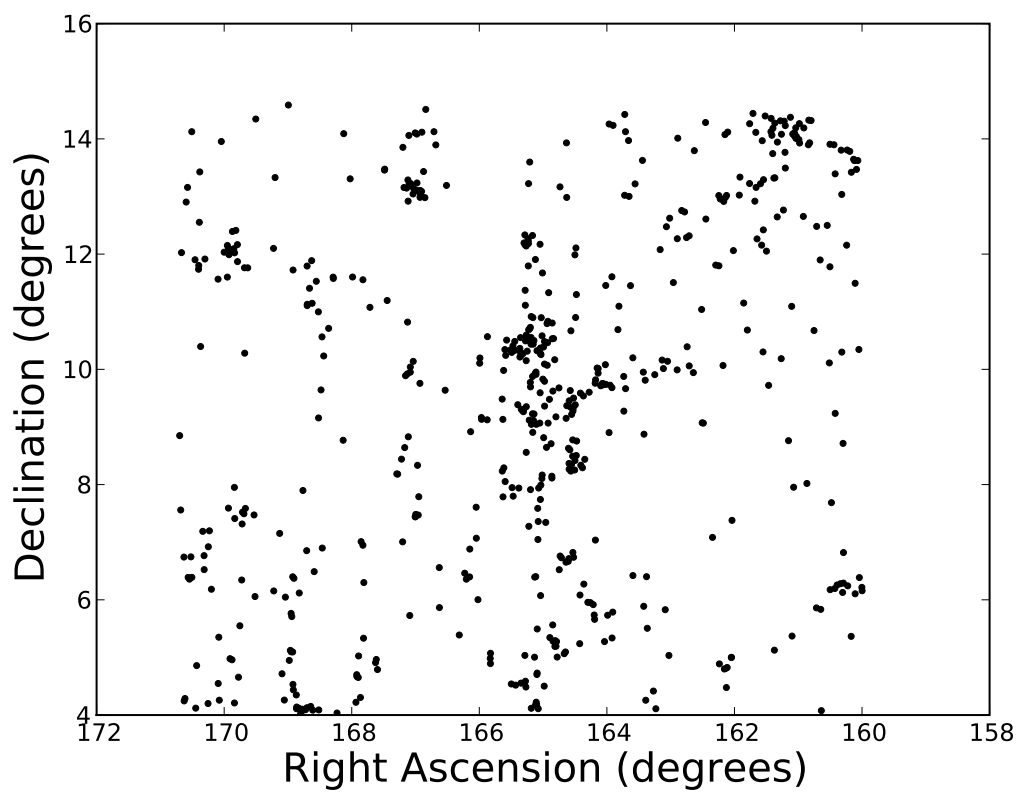
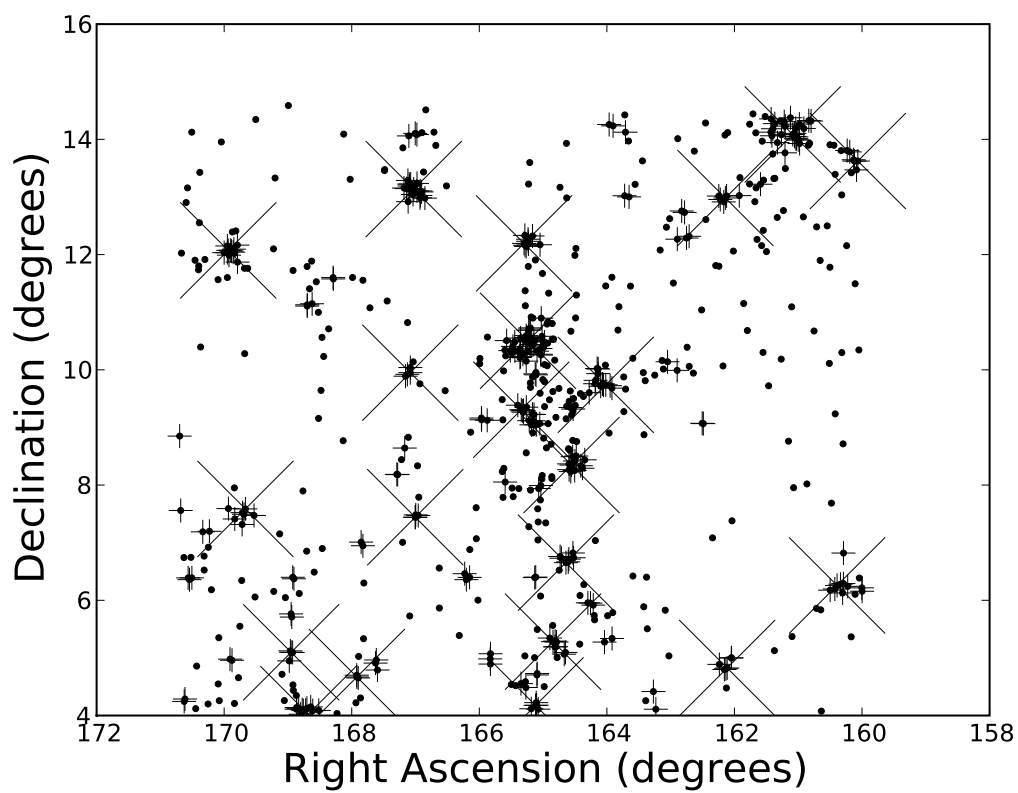
Field 68

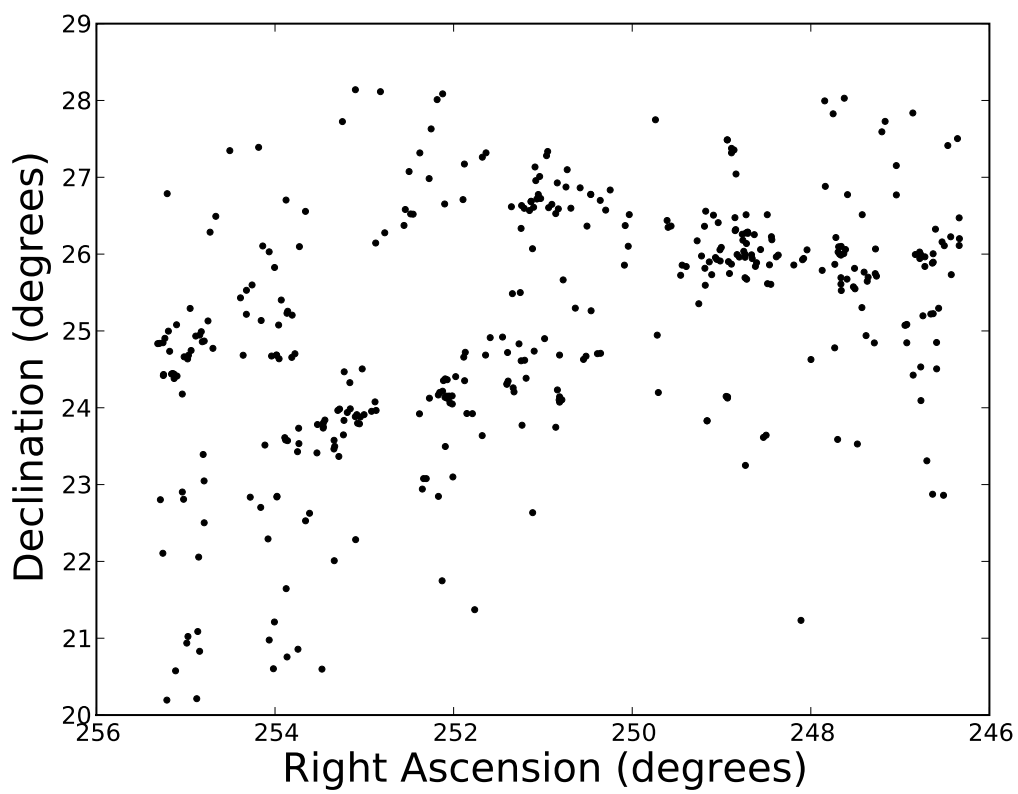
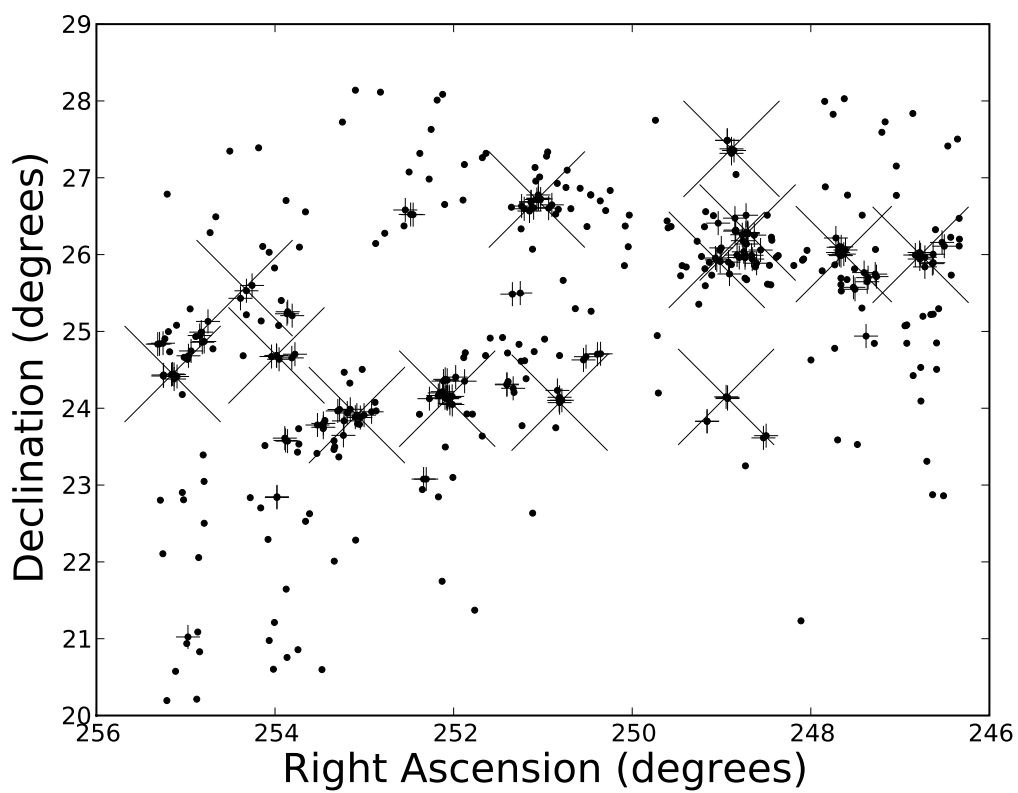


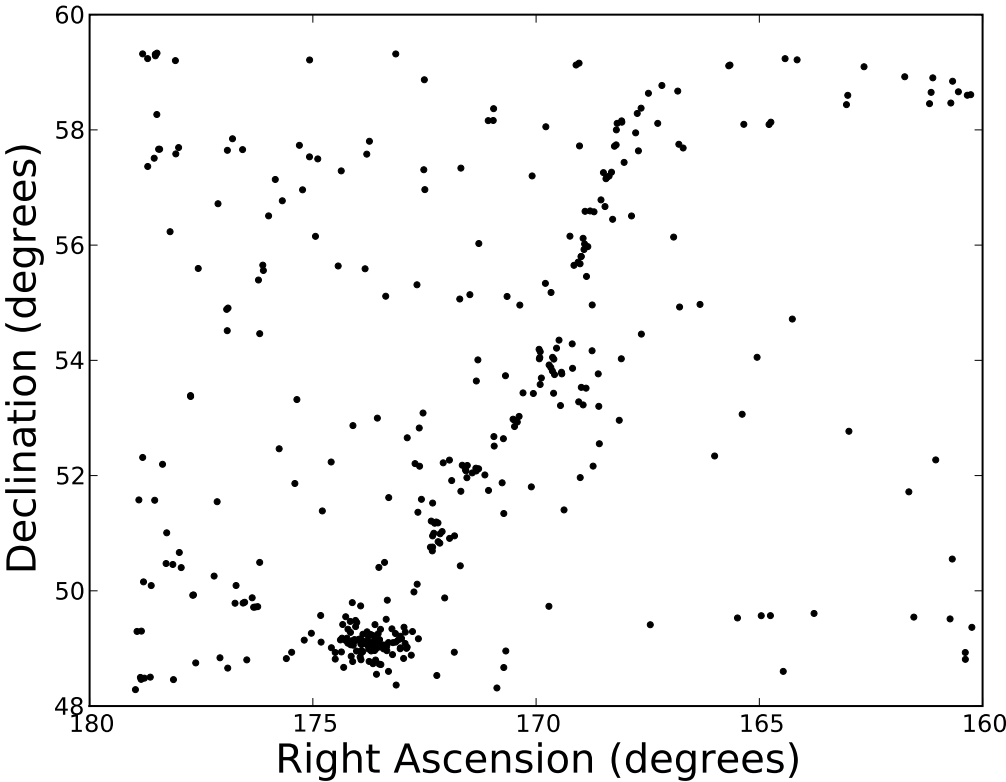
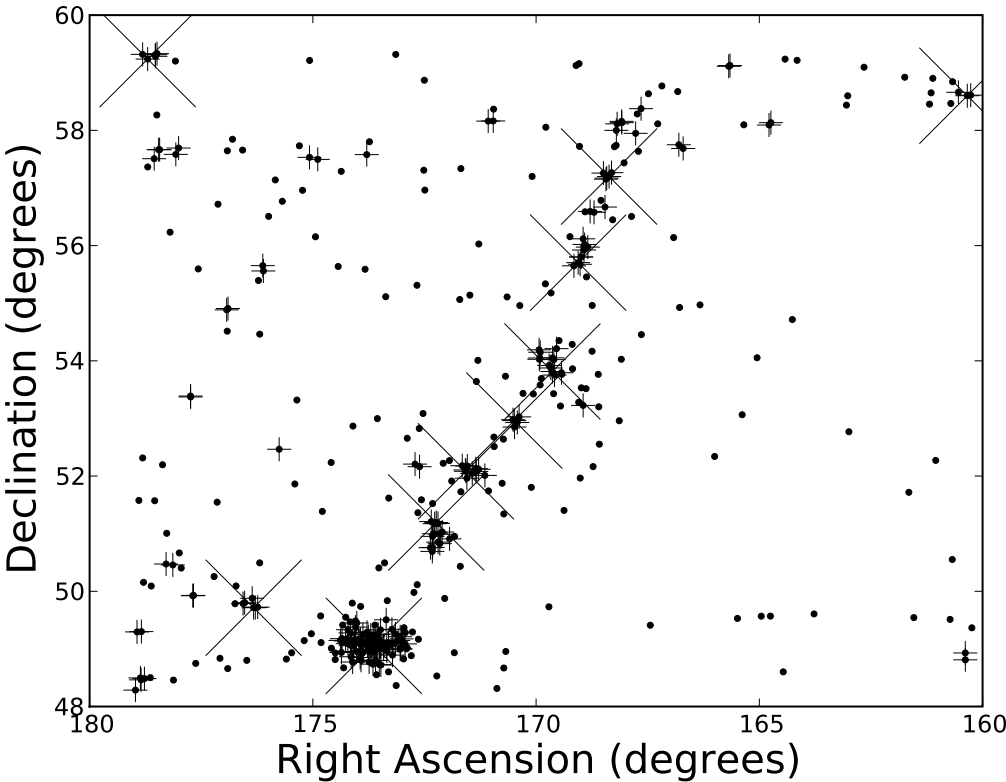
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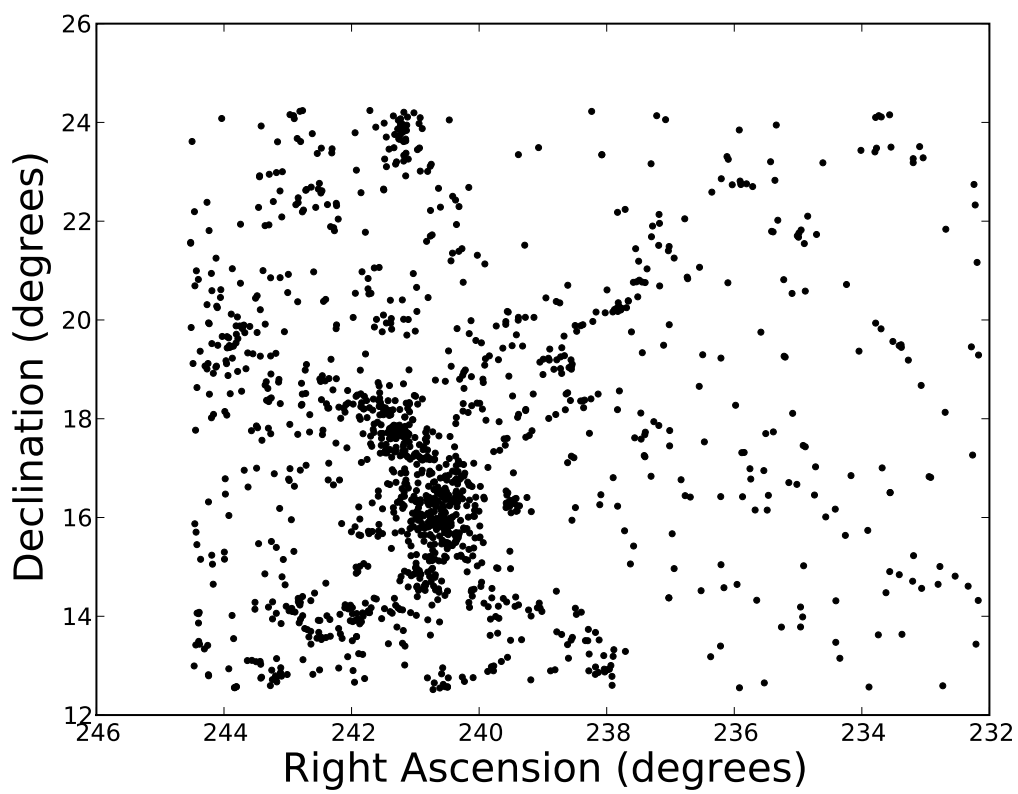
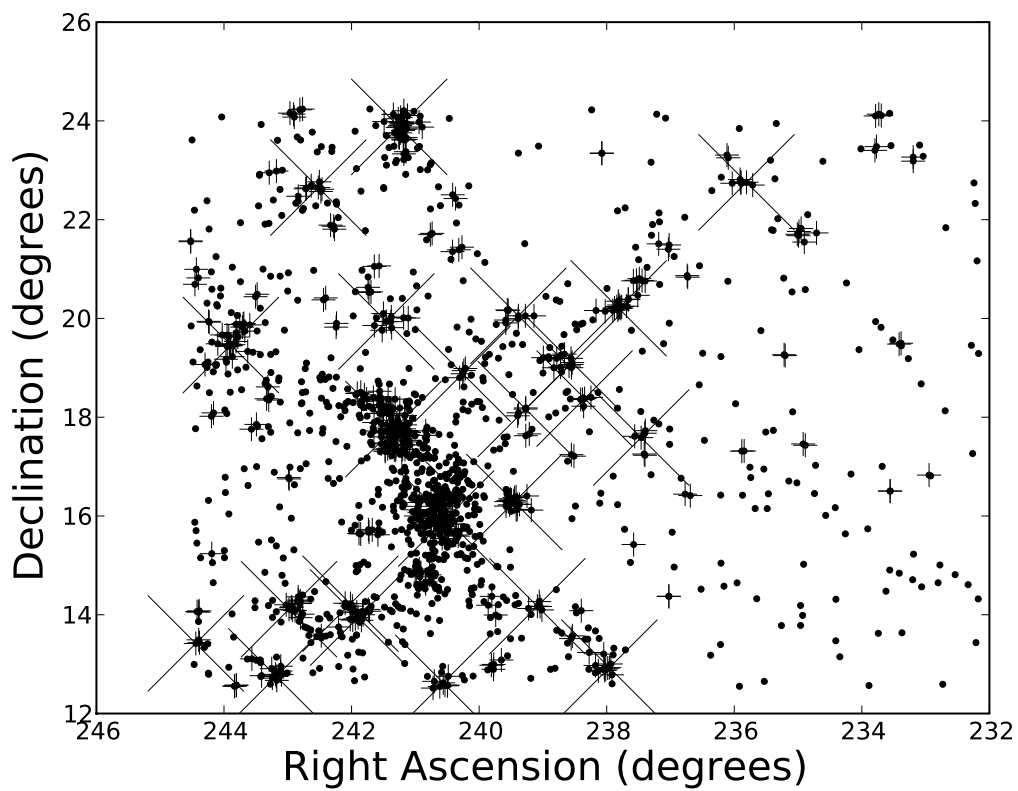




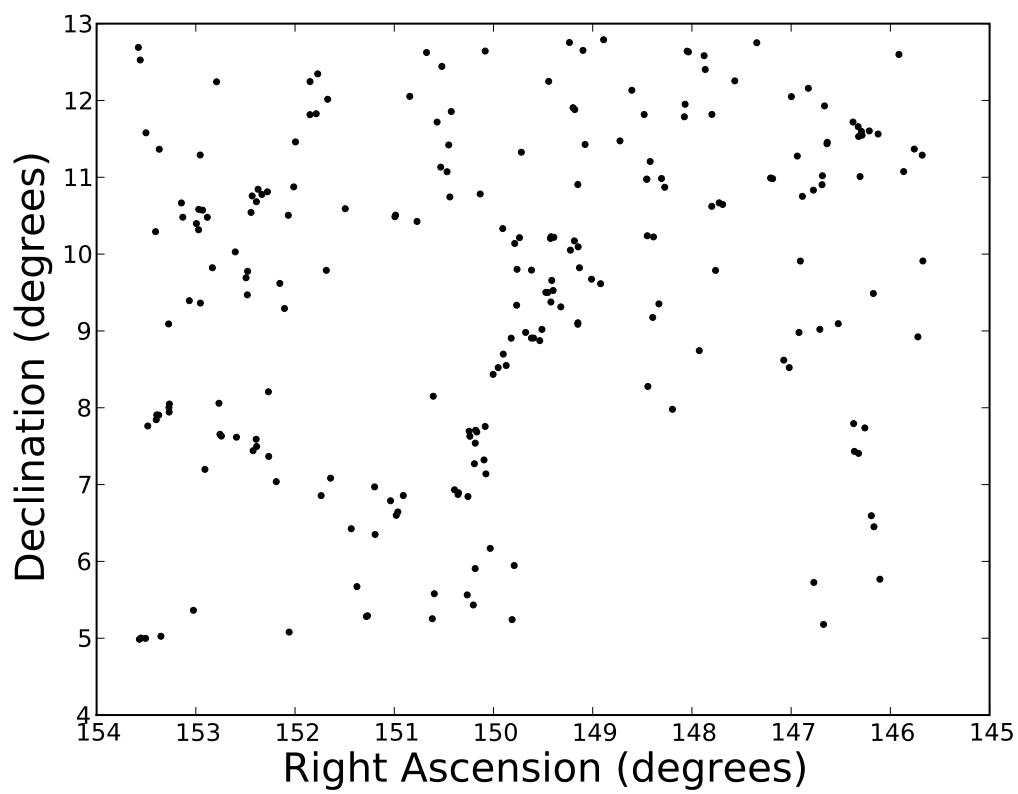
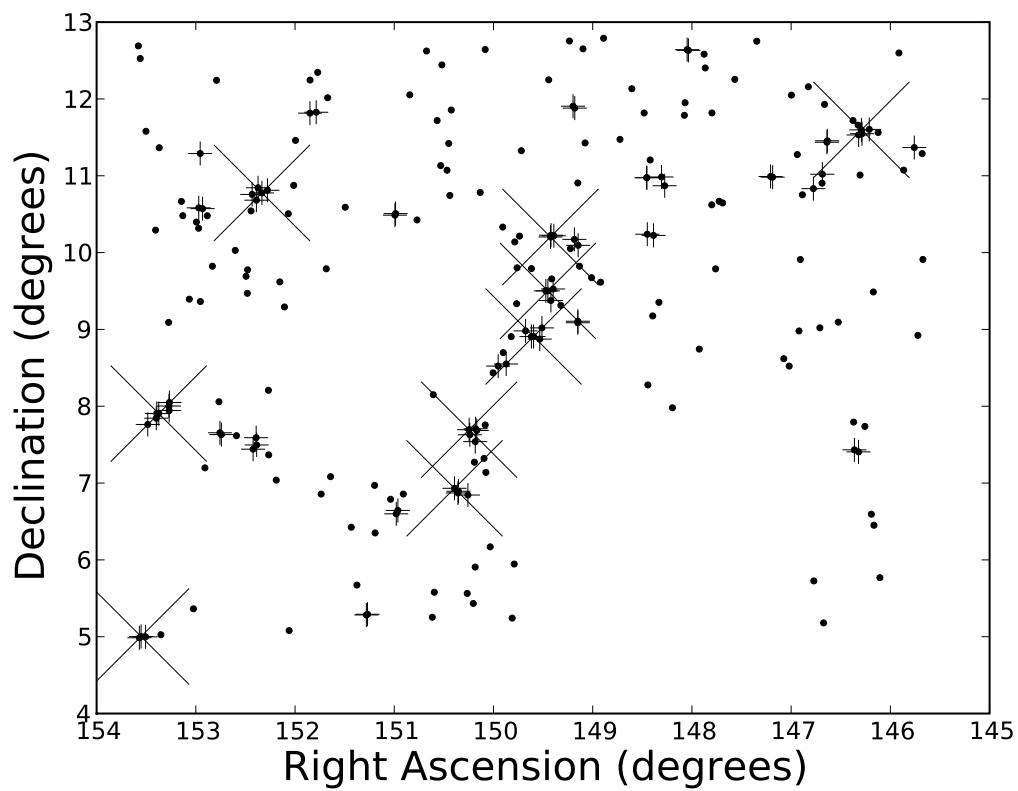


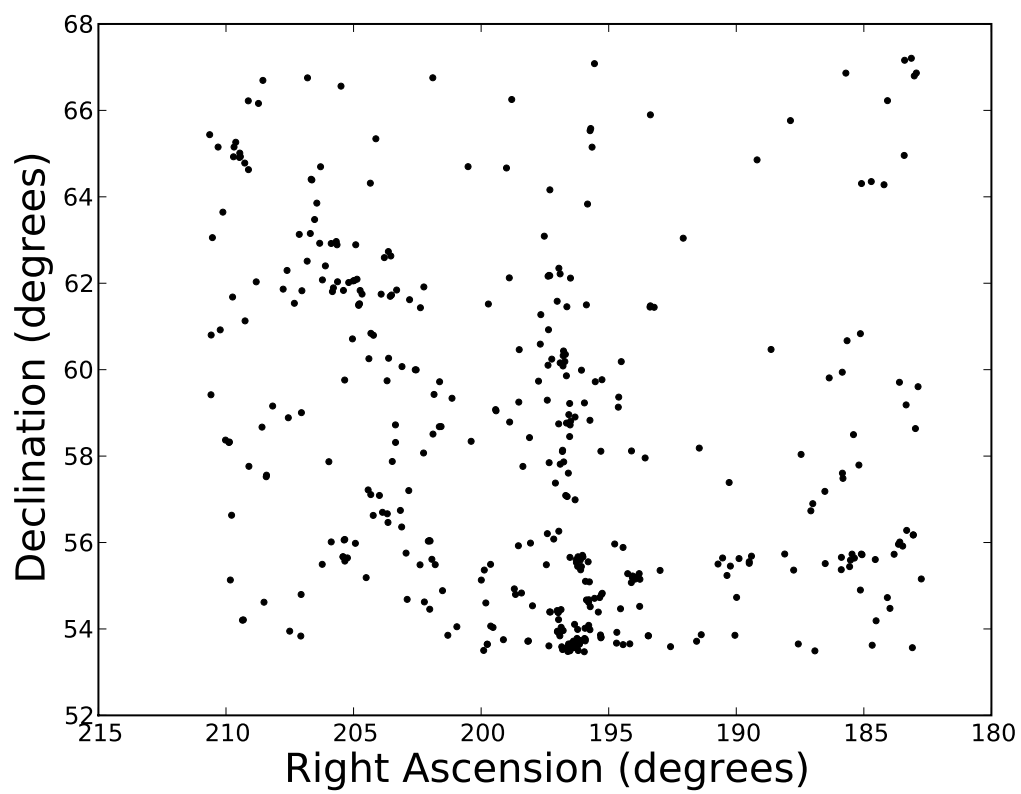
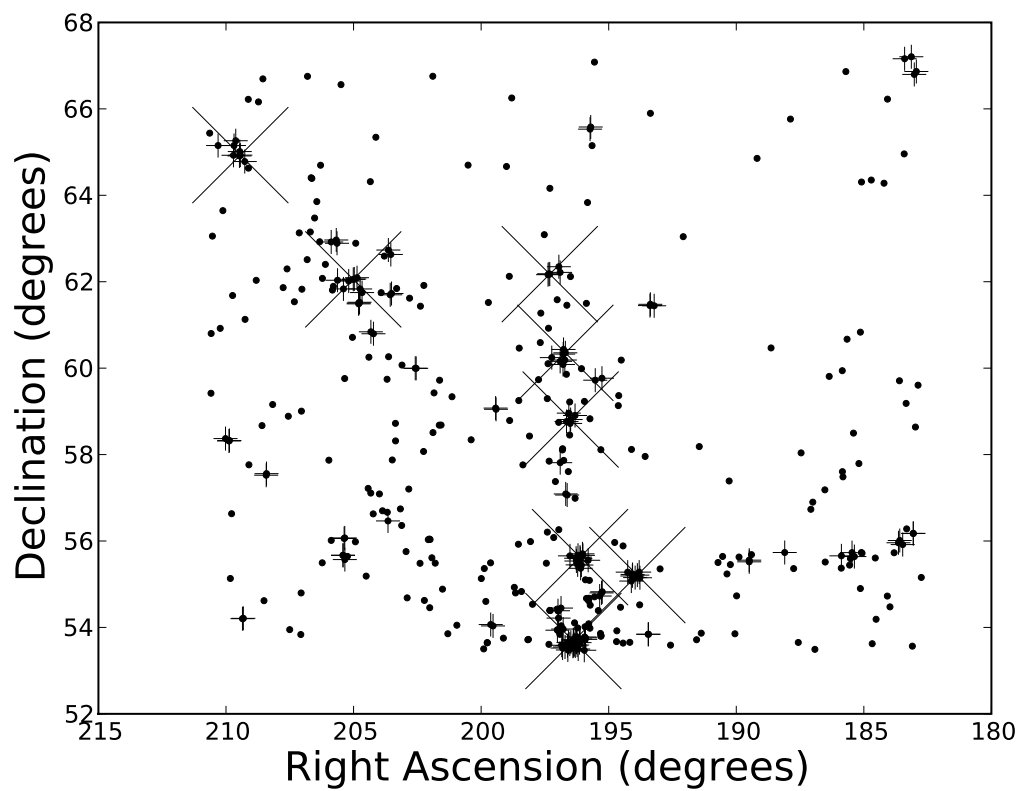




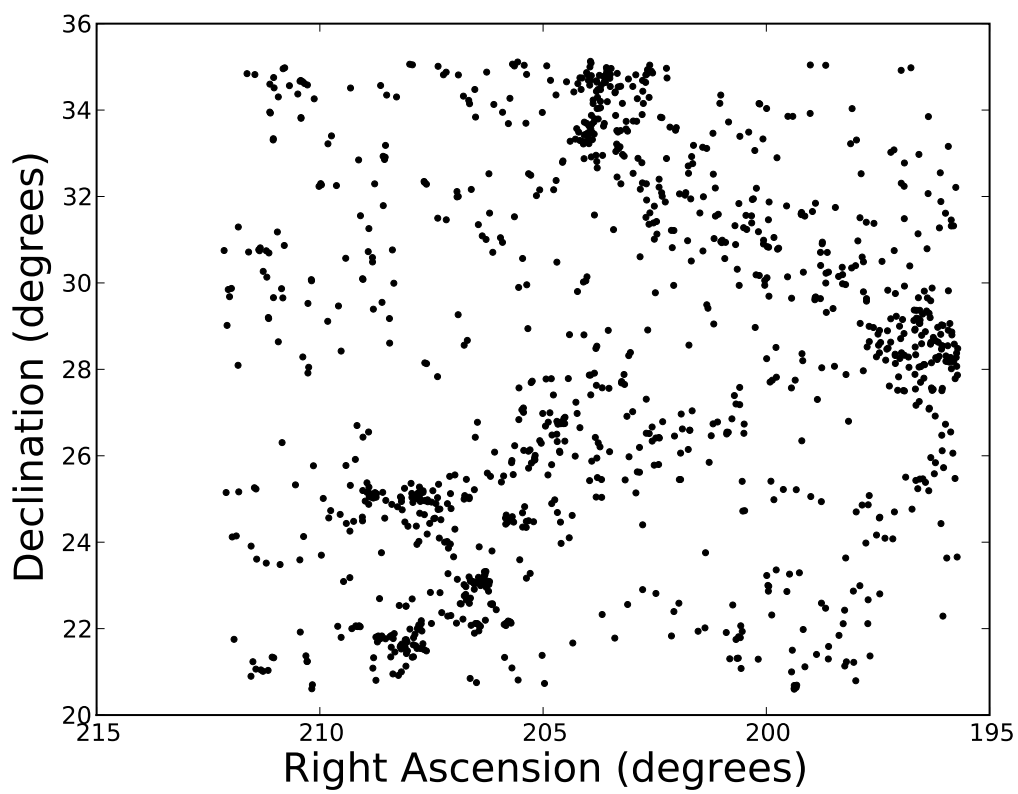
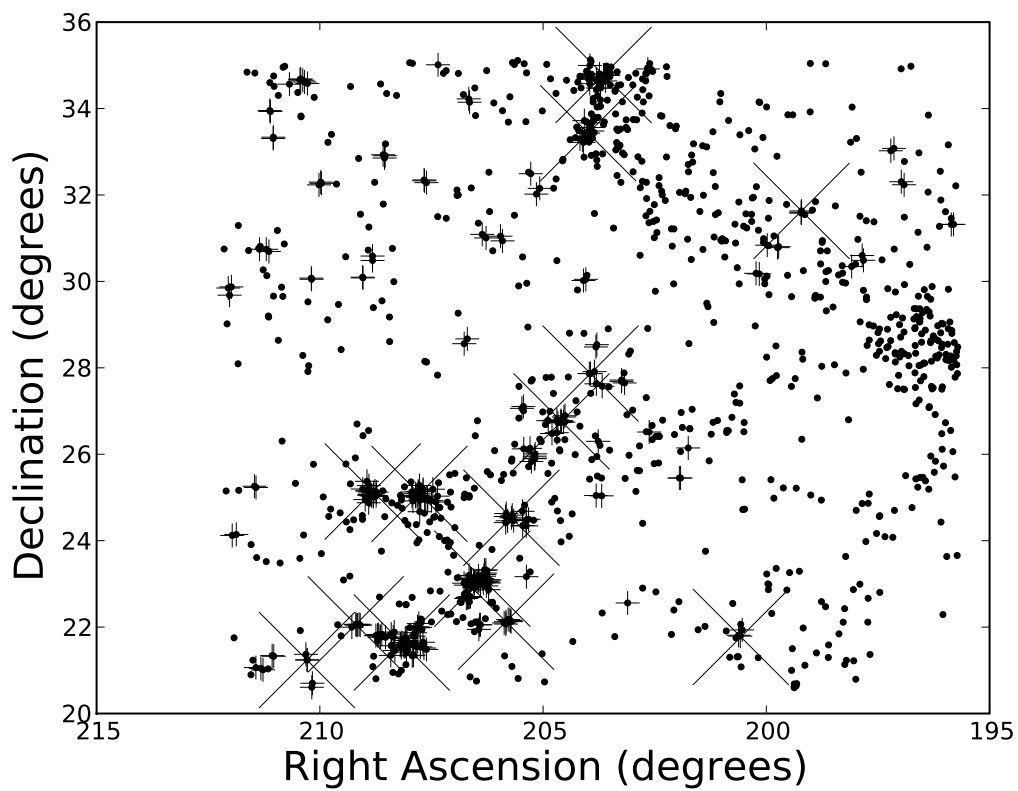


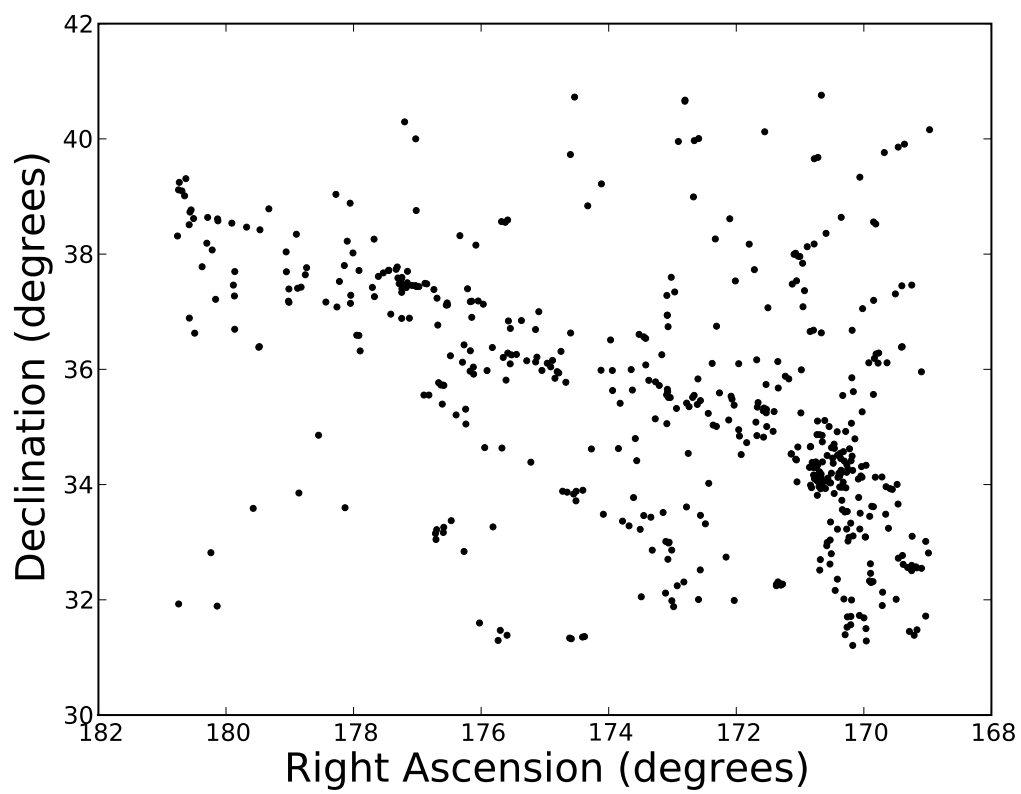
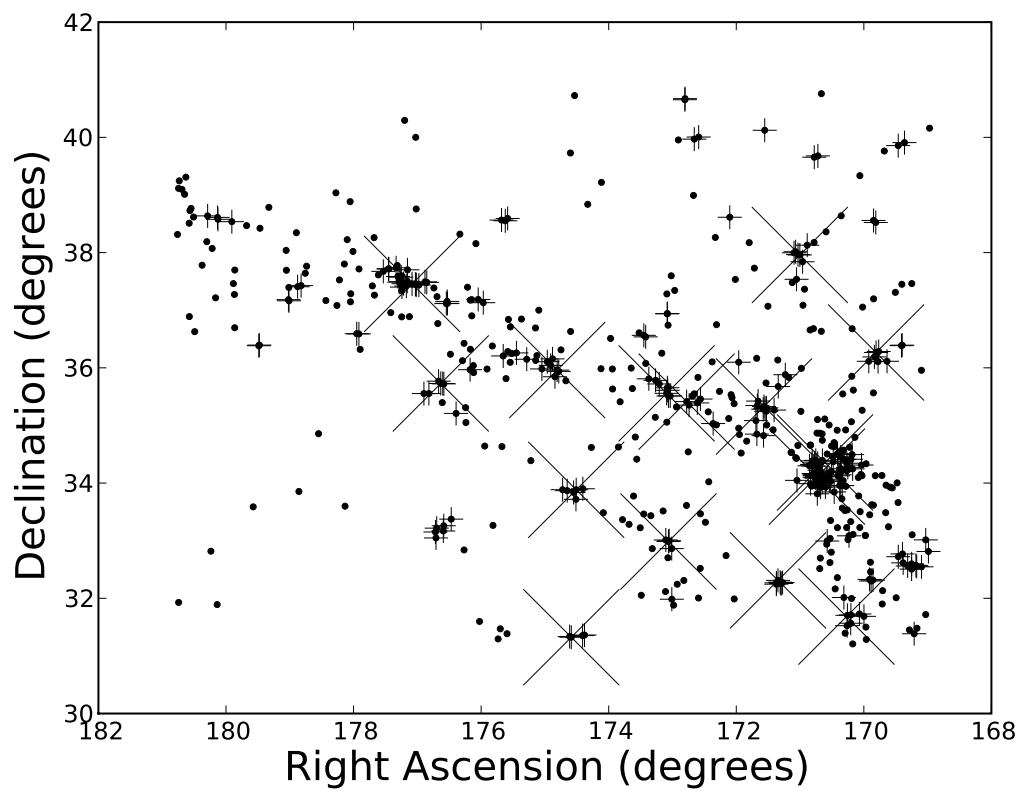
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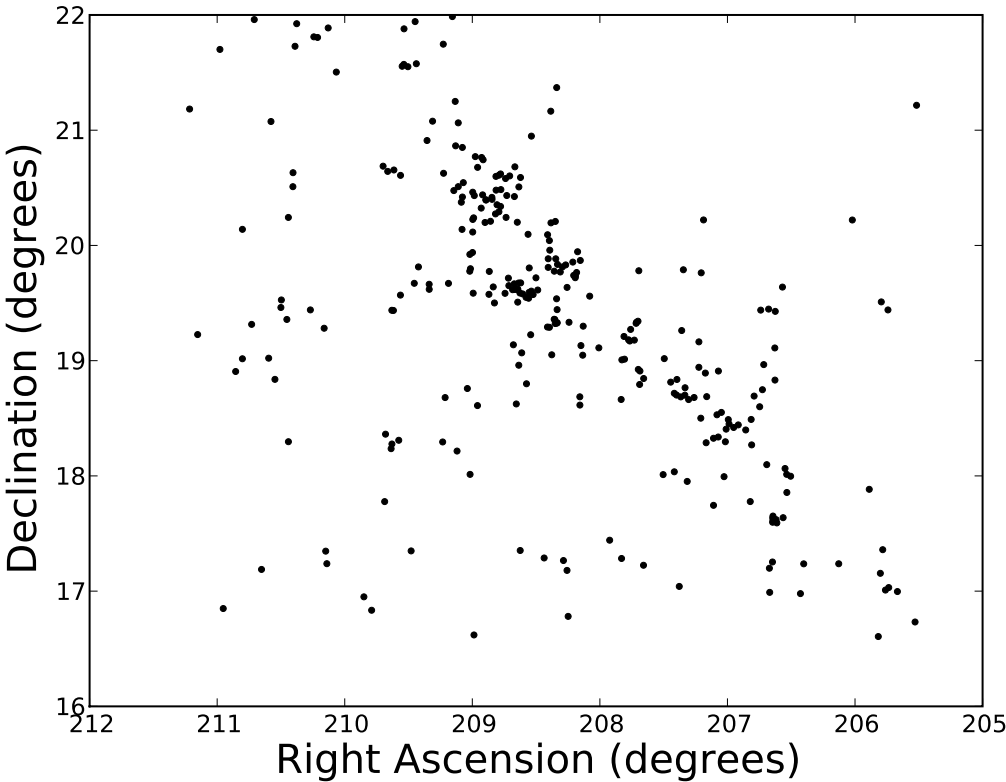
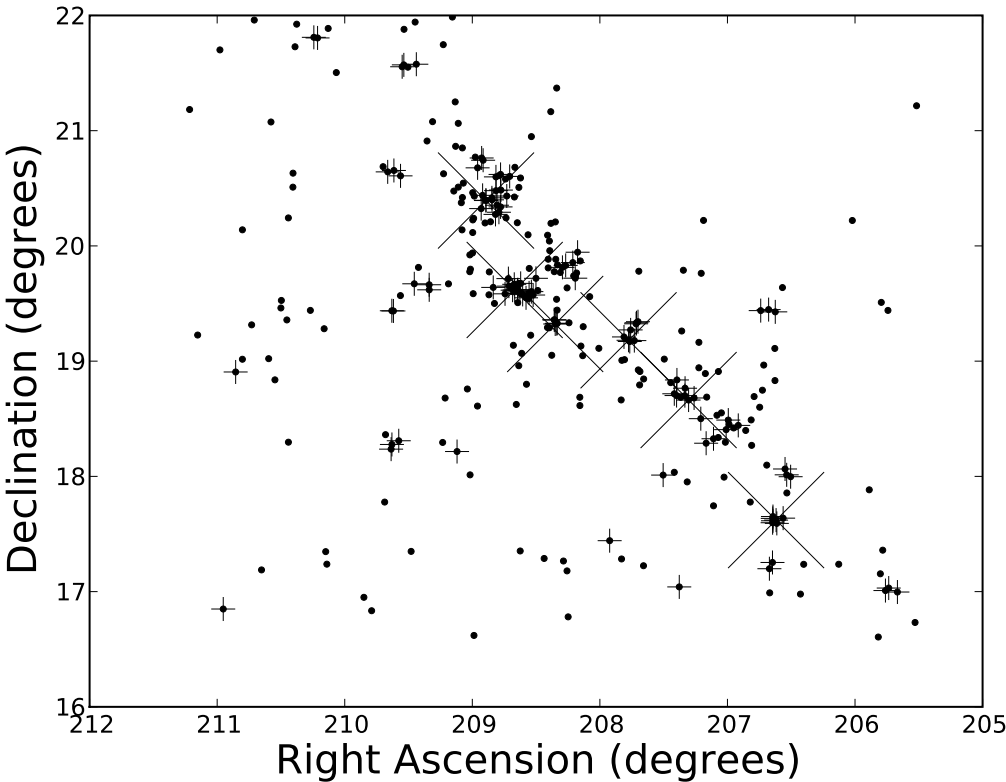


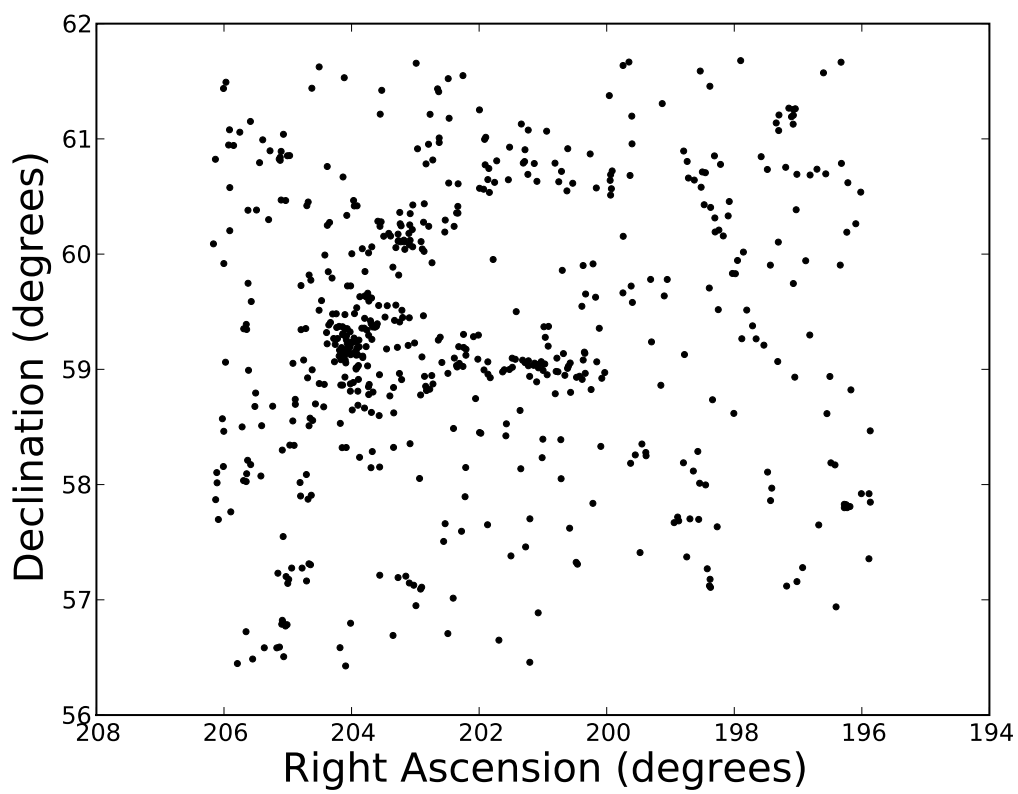
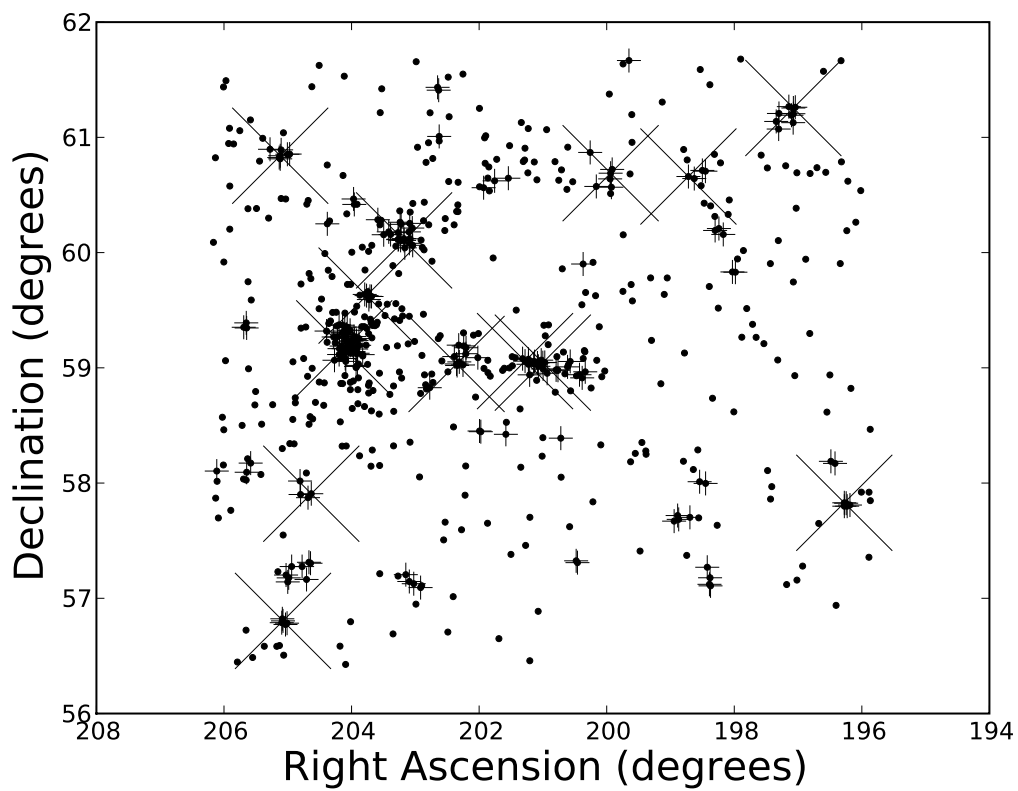


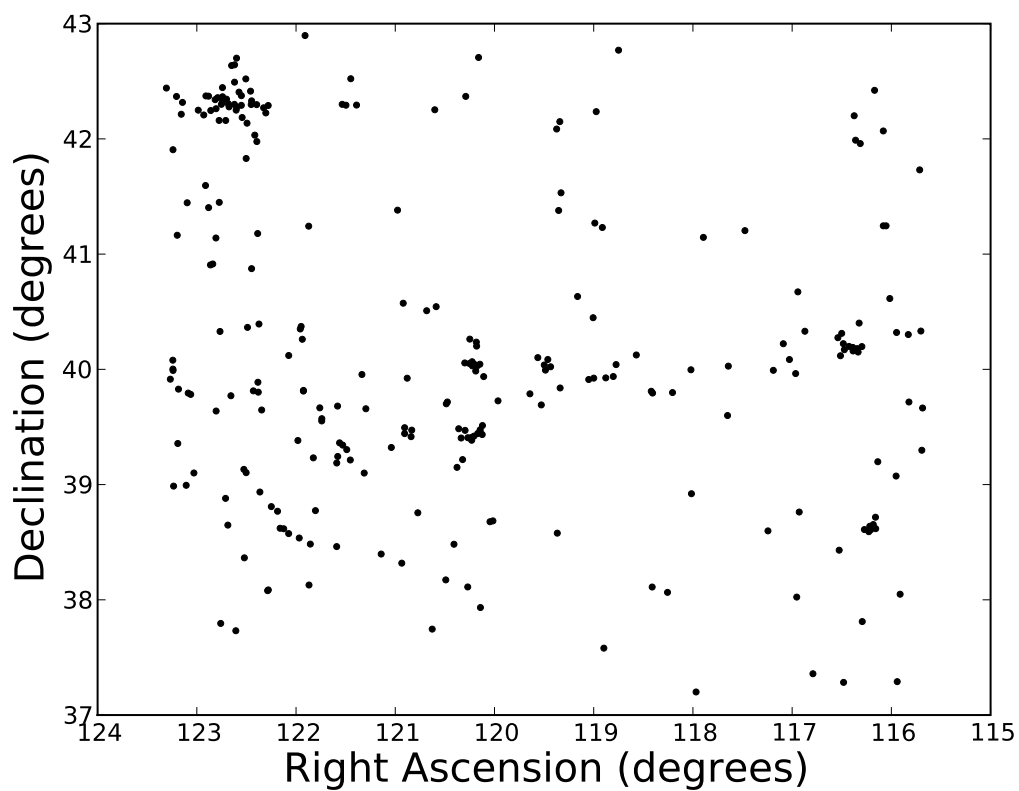
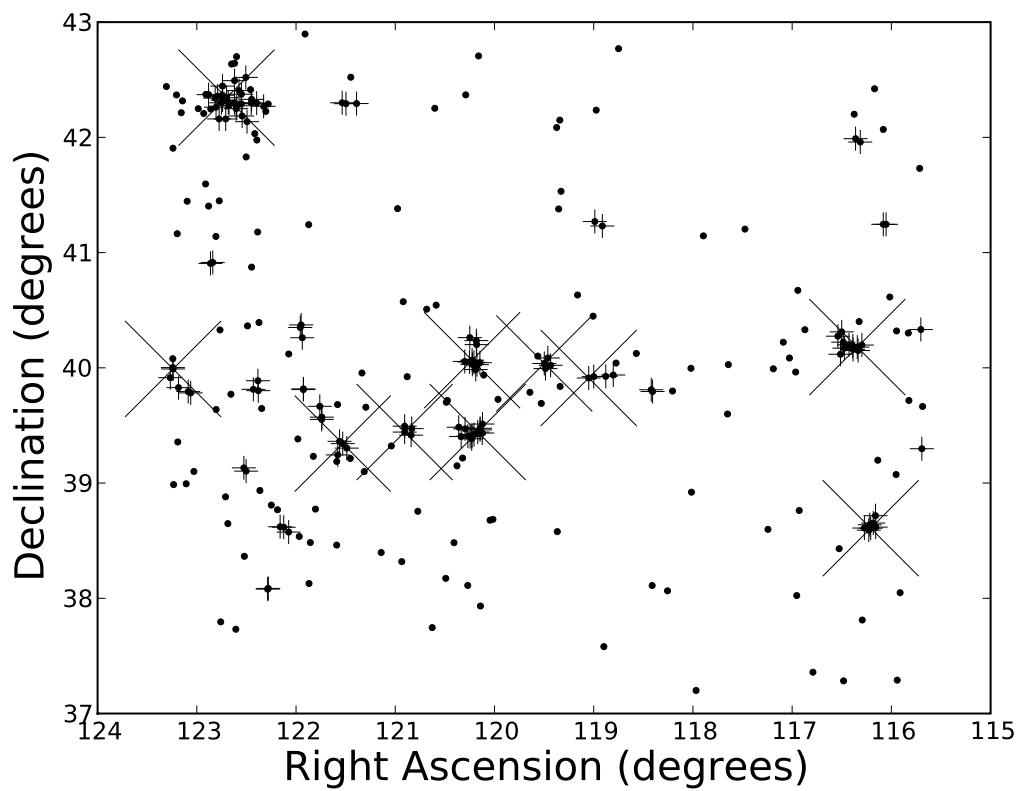
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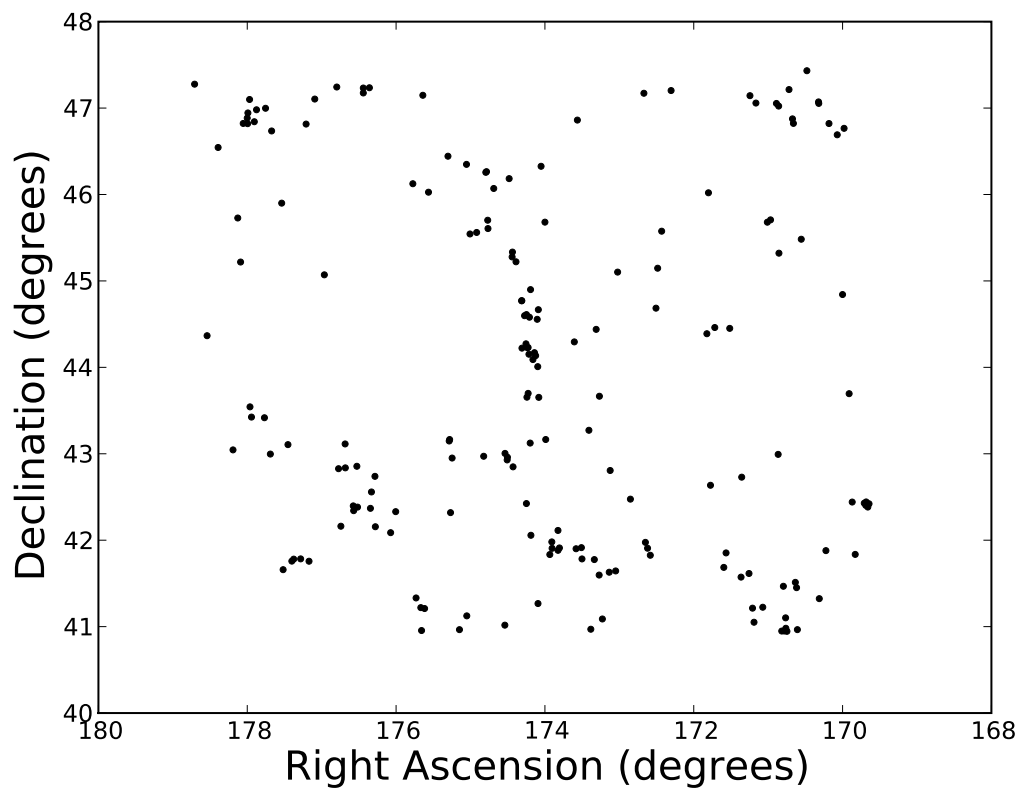
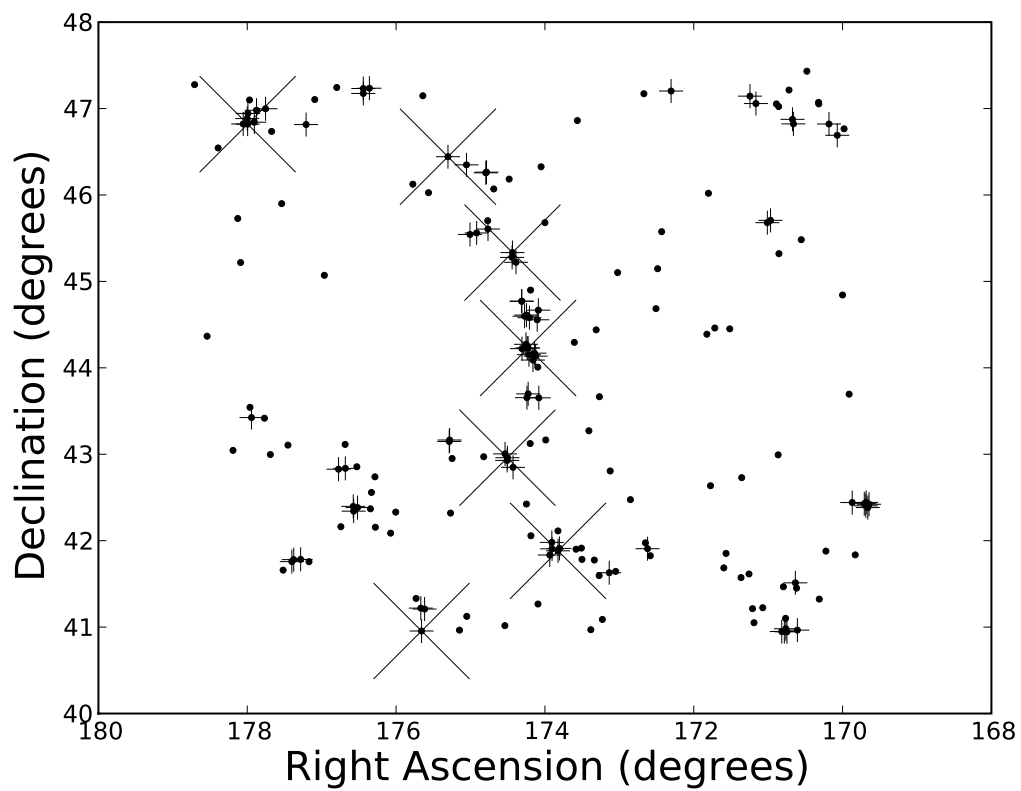




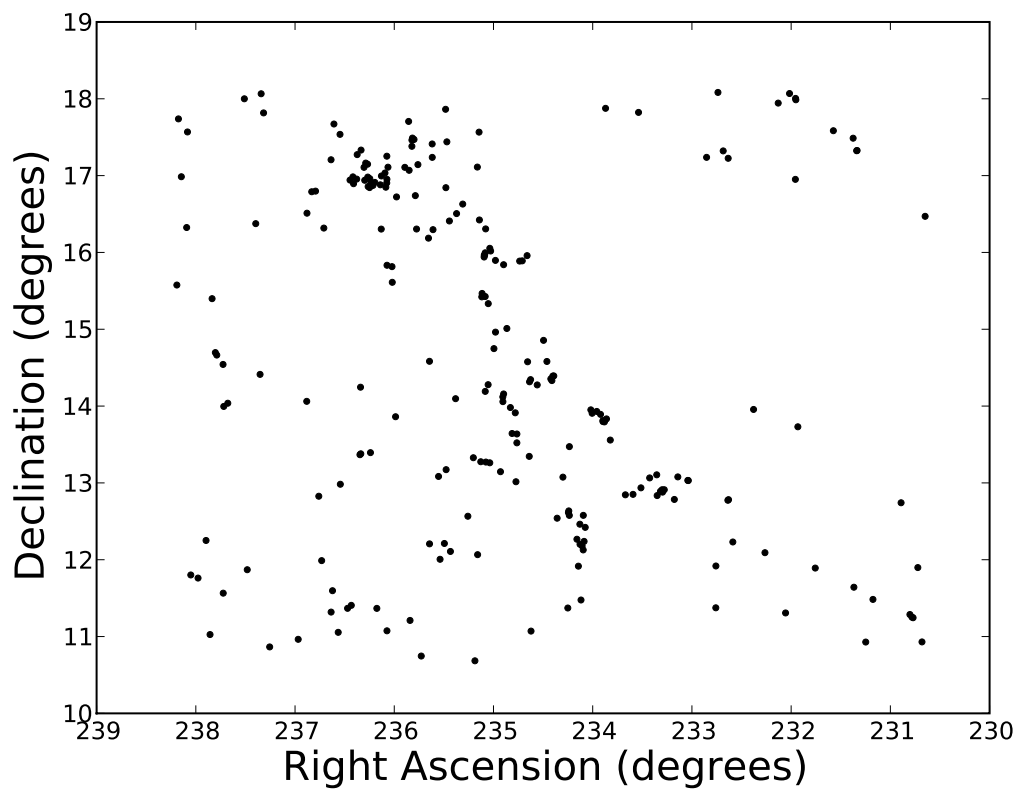
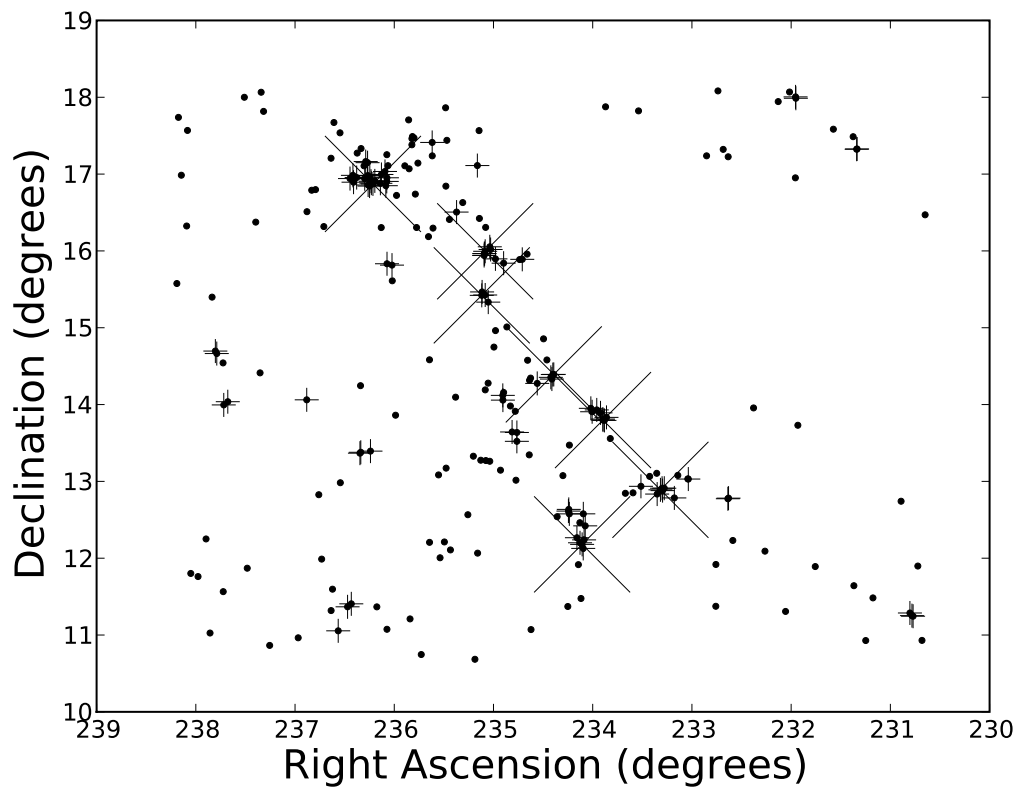


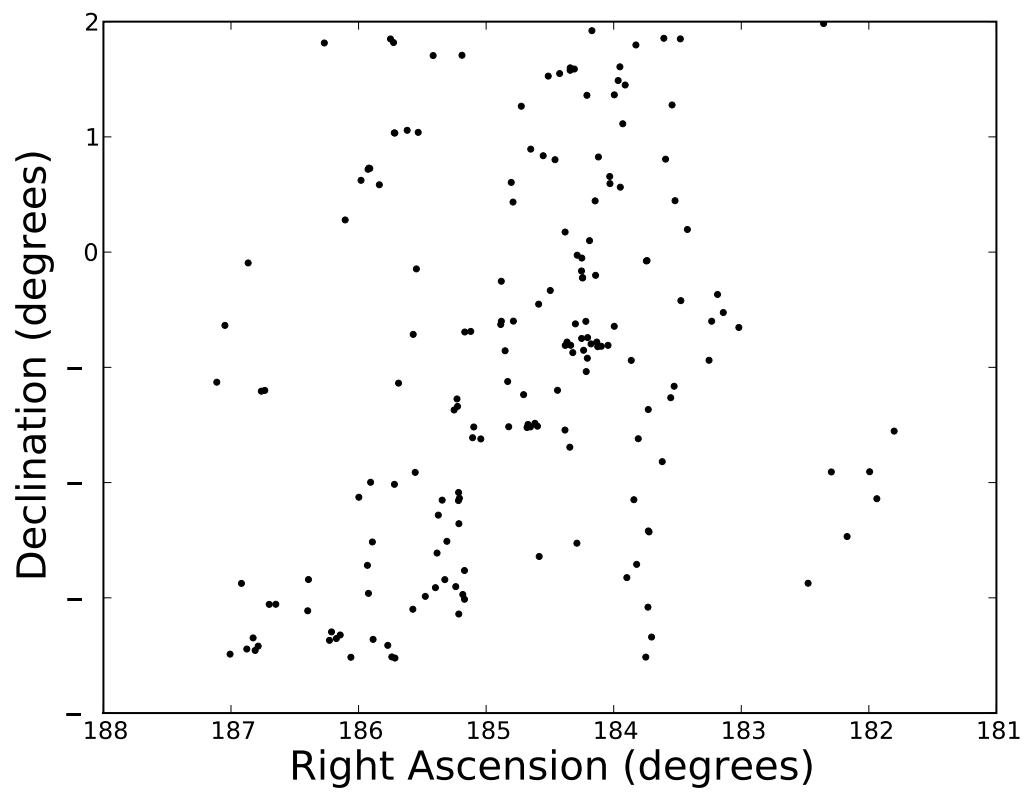
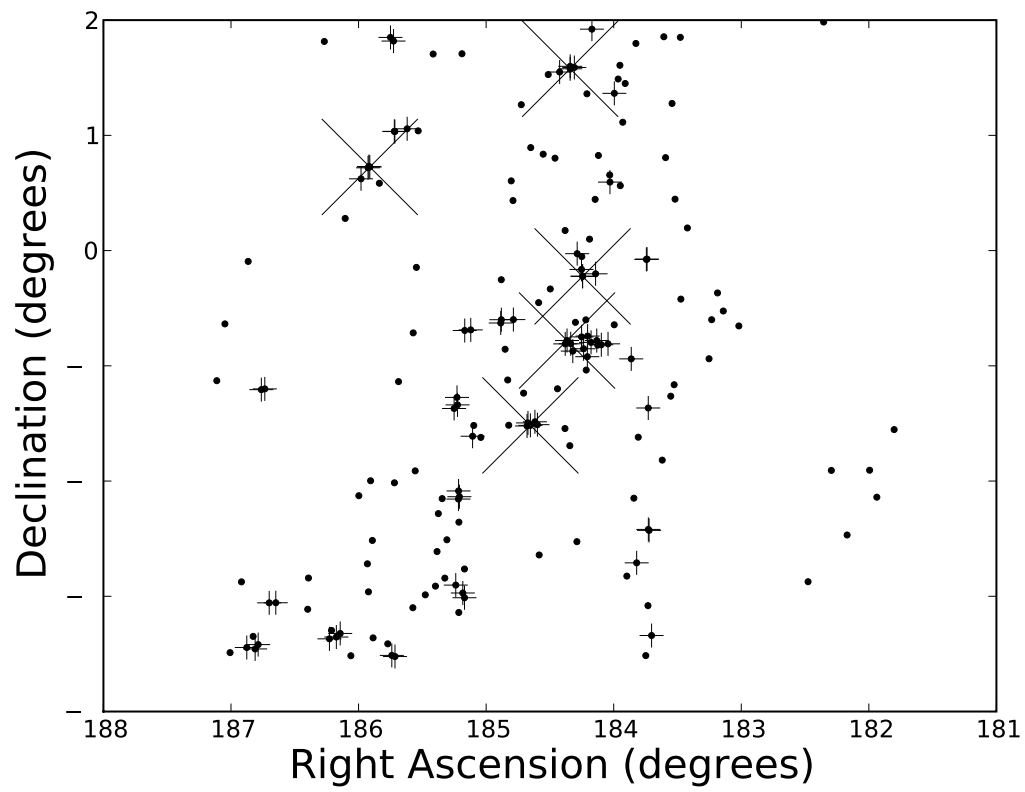


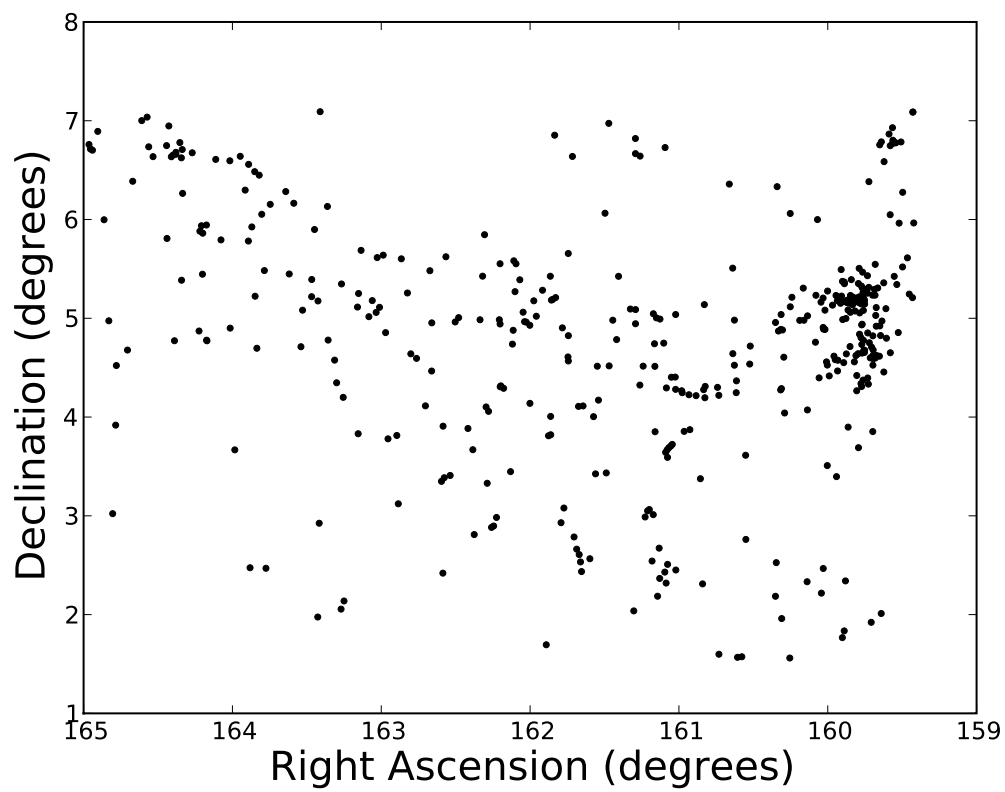
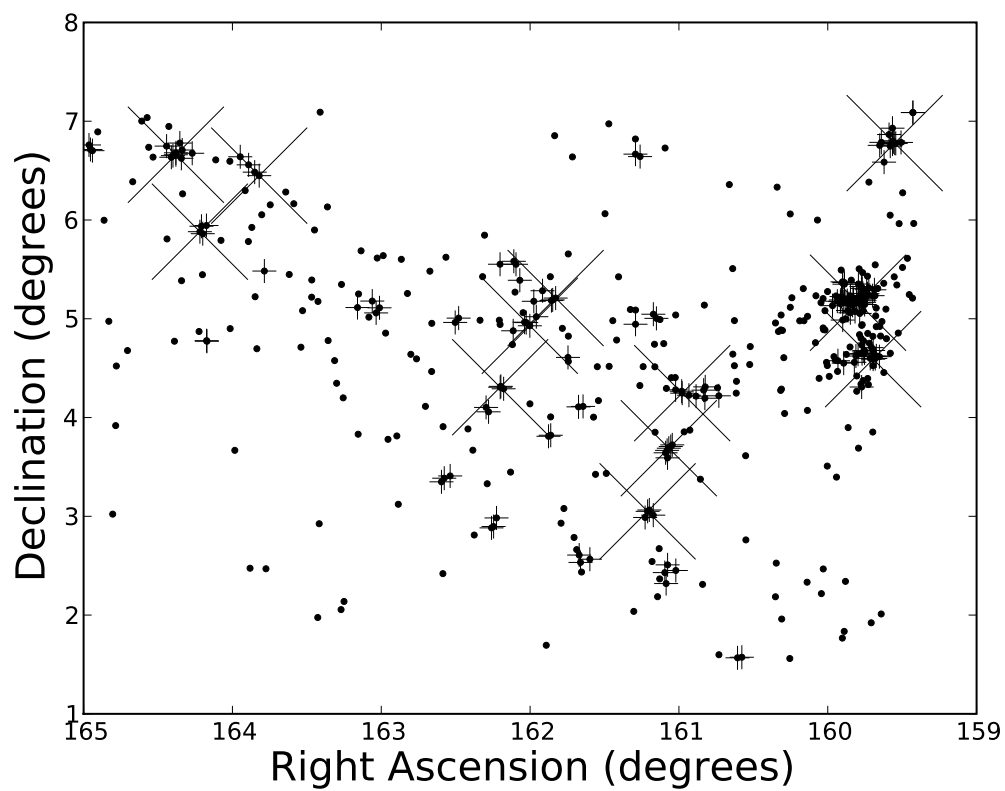


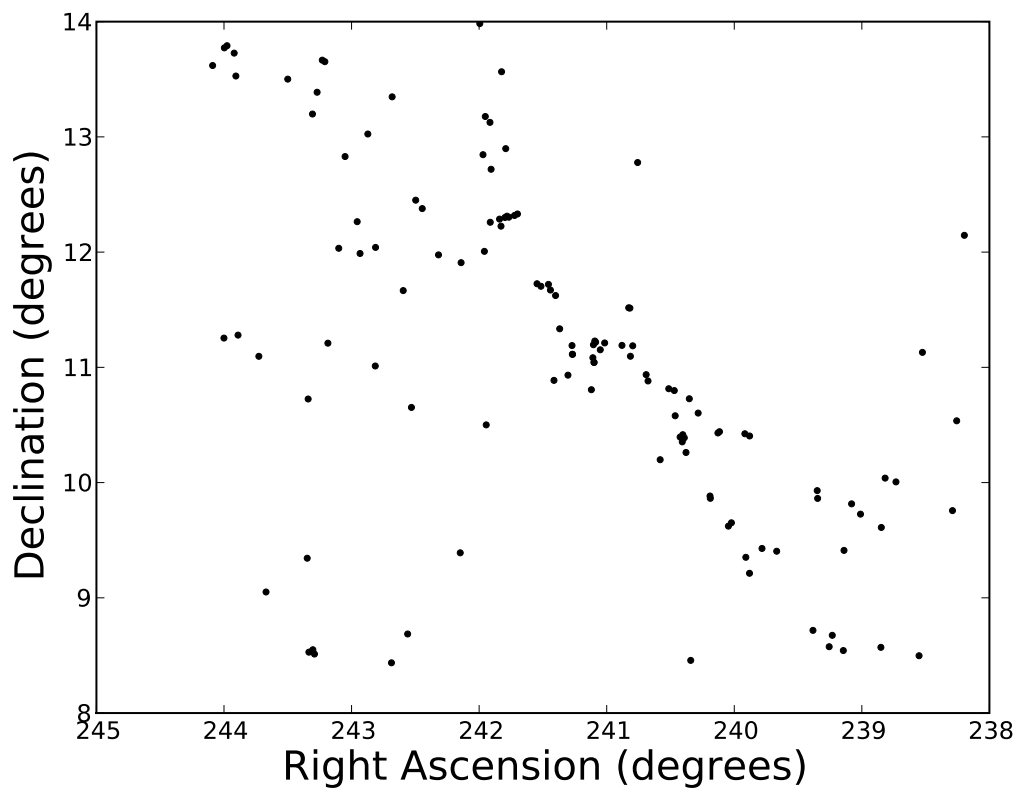
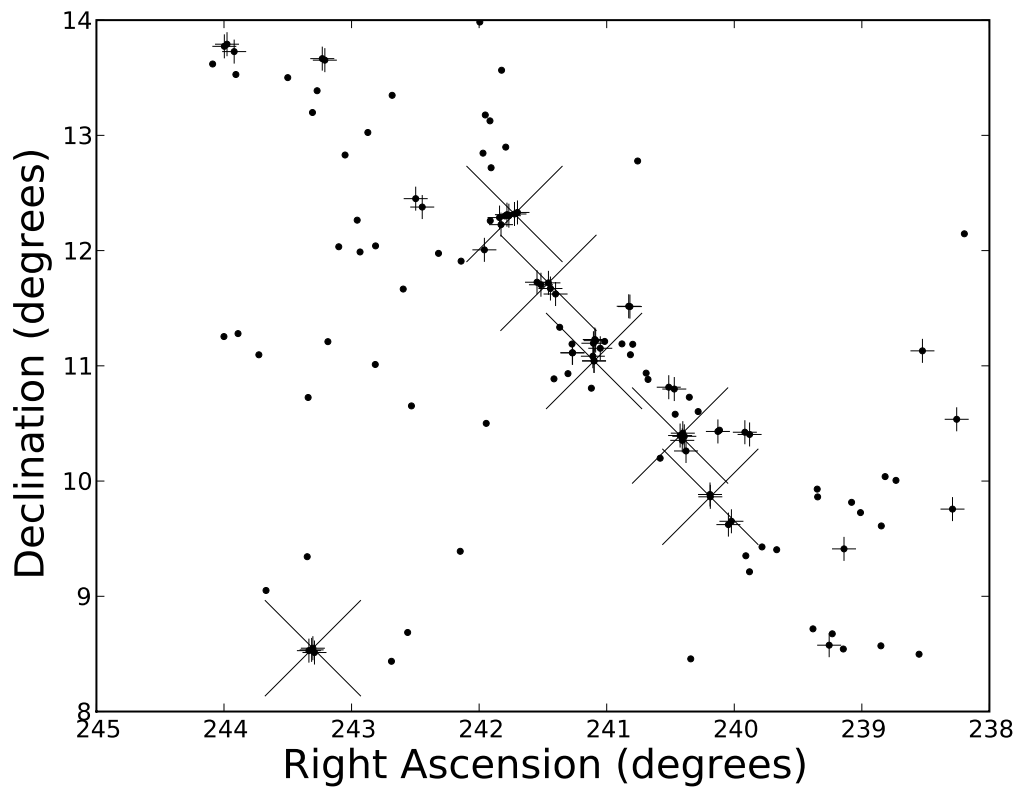


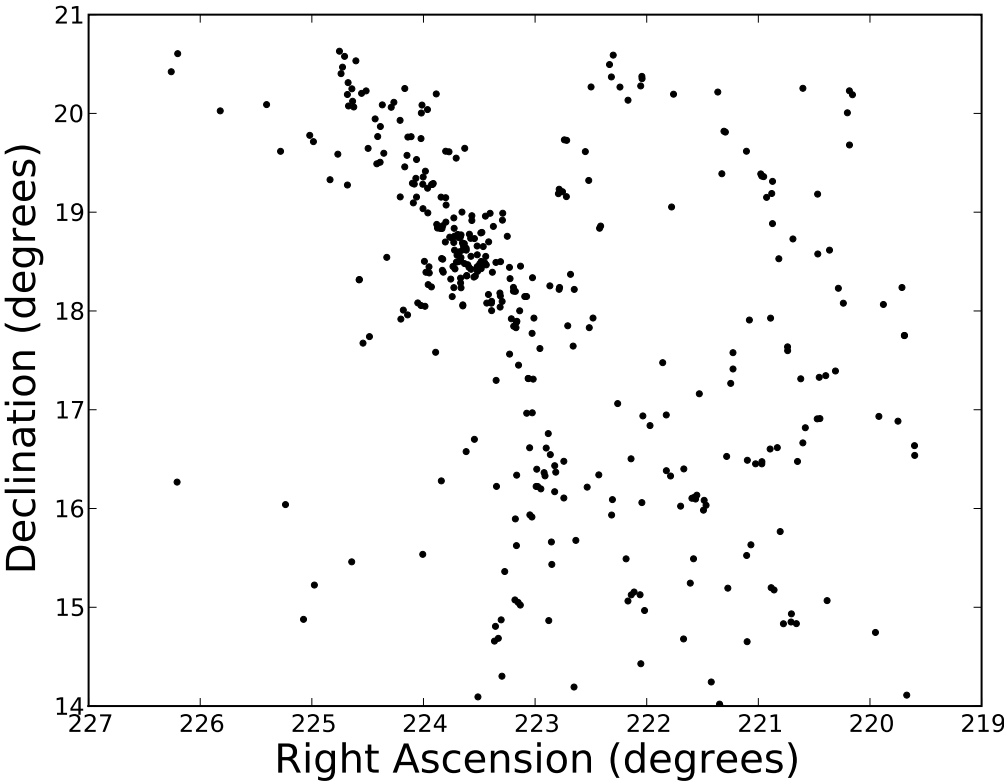
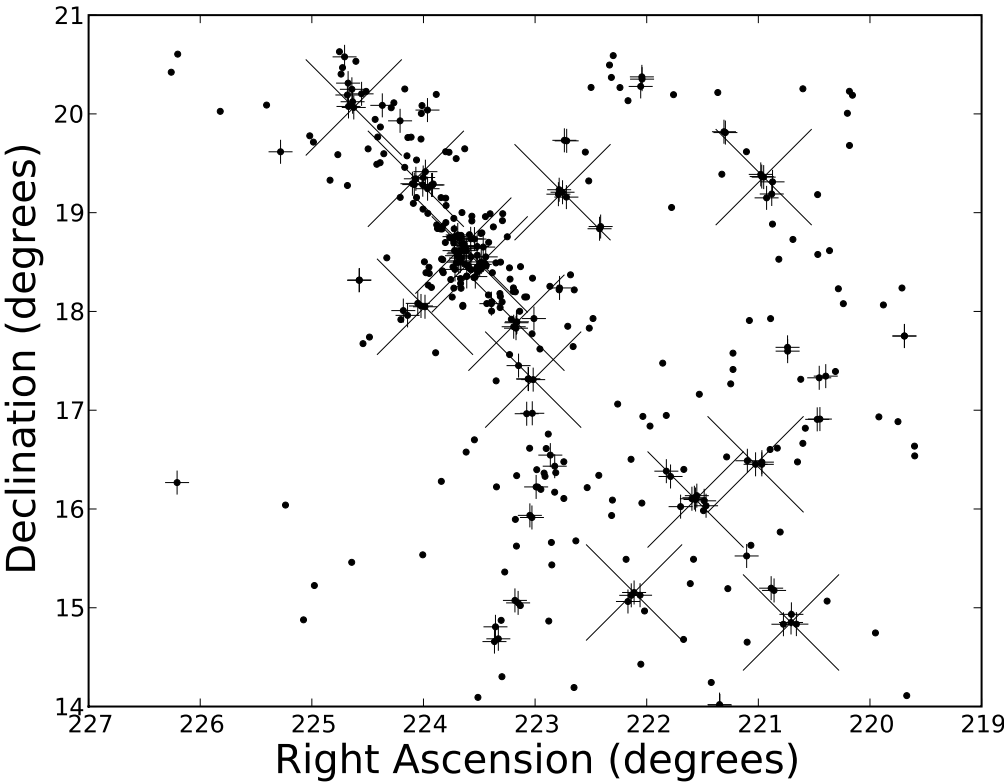
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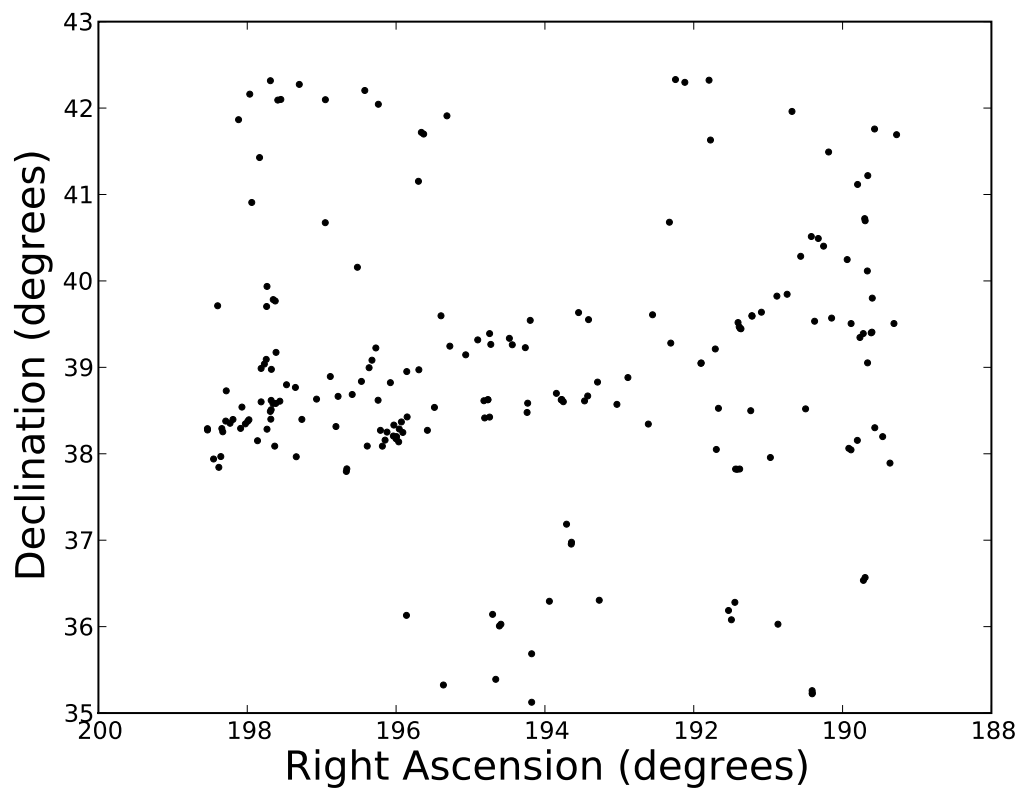
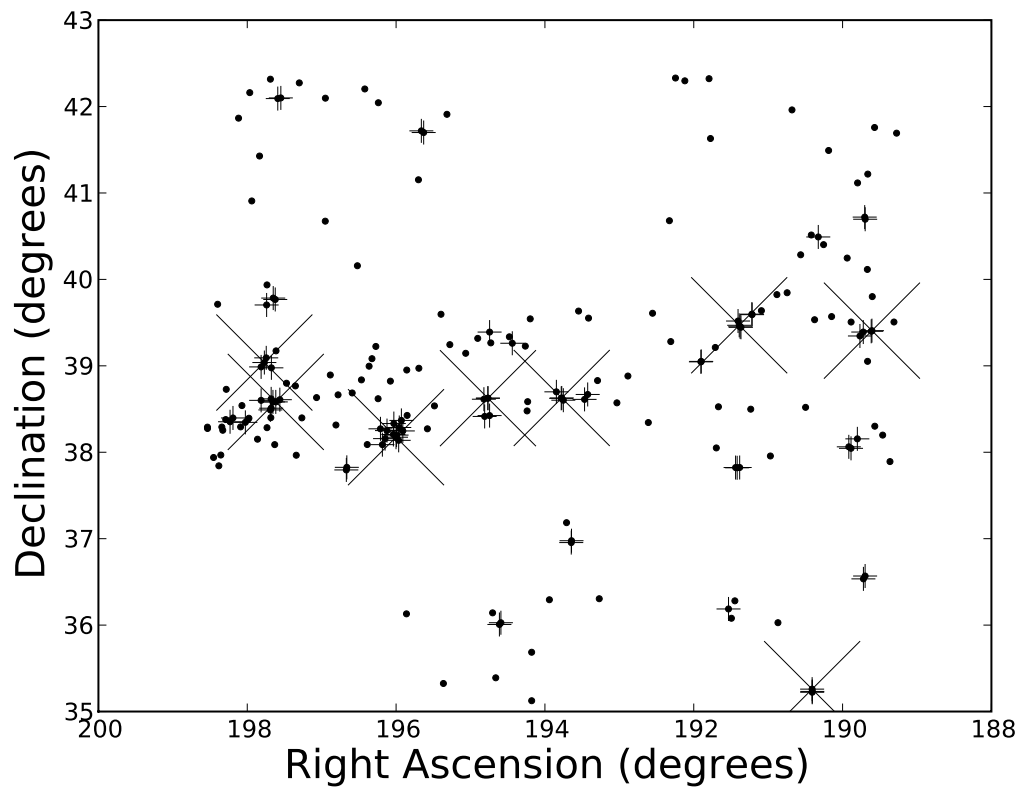












Field 3750

