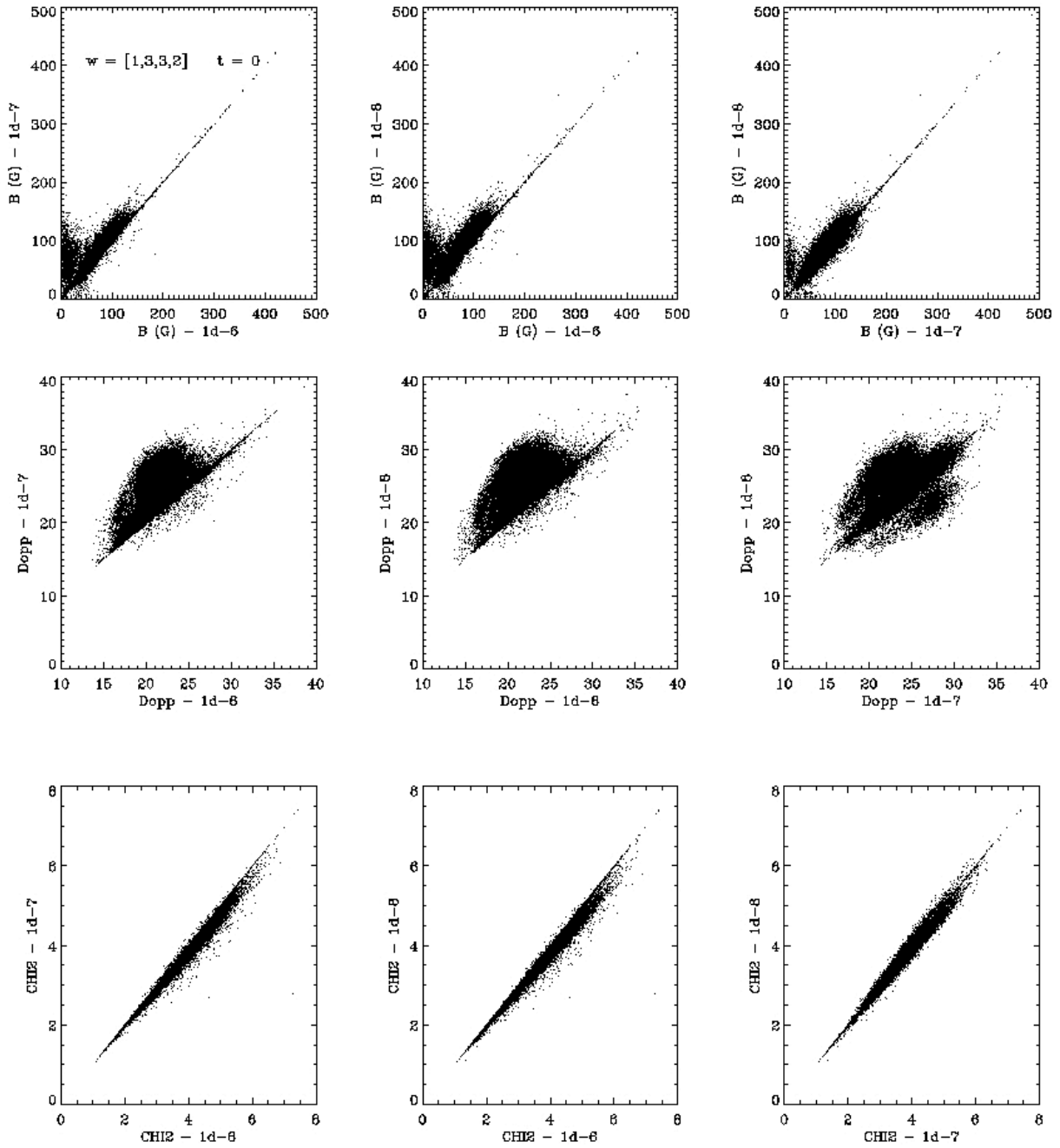


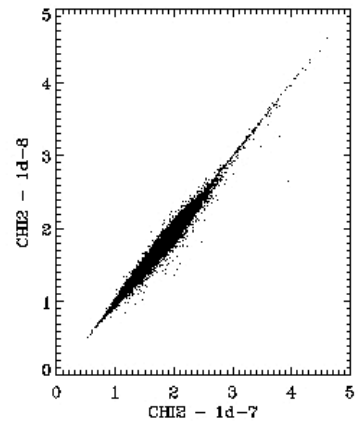
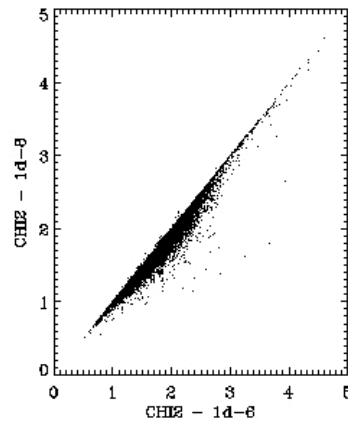
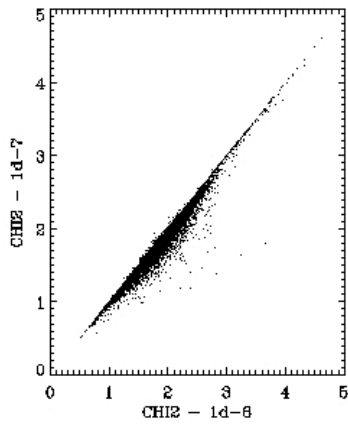
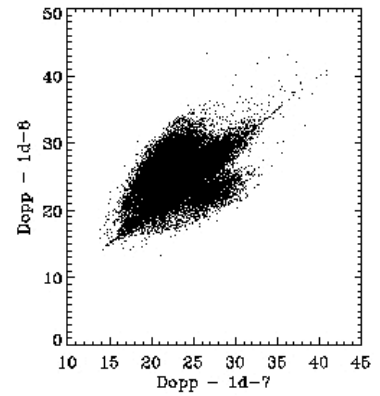
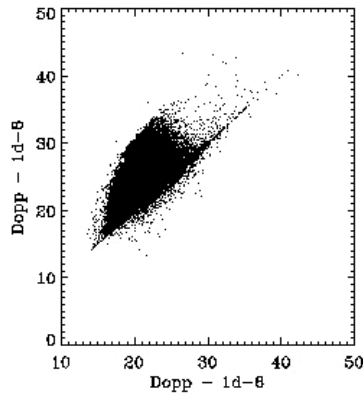
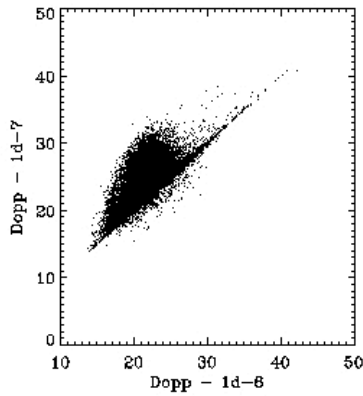
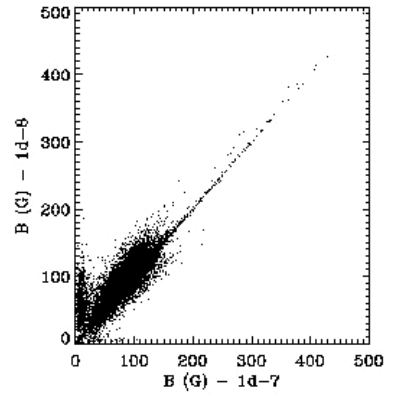
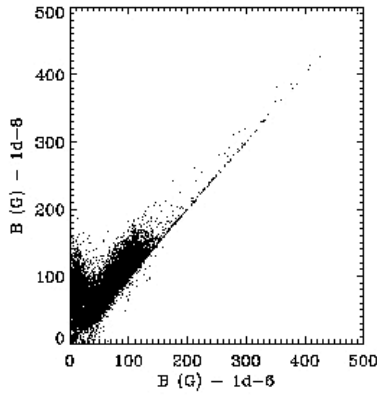
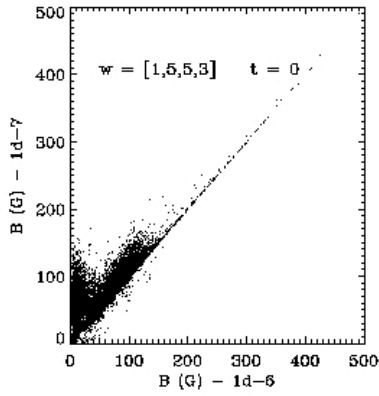
March 10, 2011

October 15, 2010 dataset. 200x200 px square around disk center. I selected  $t = 00:00$ hrs to make these plots.

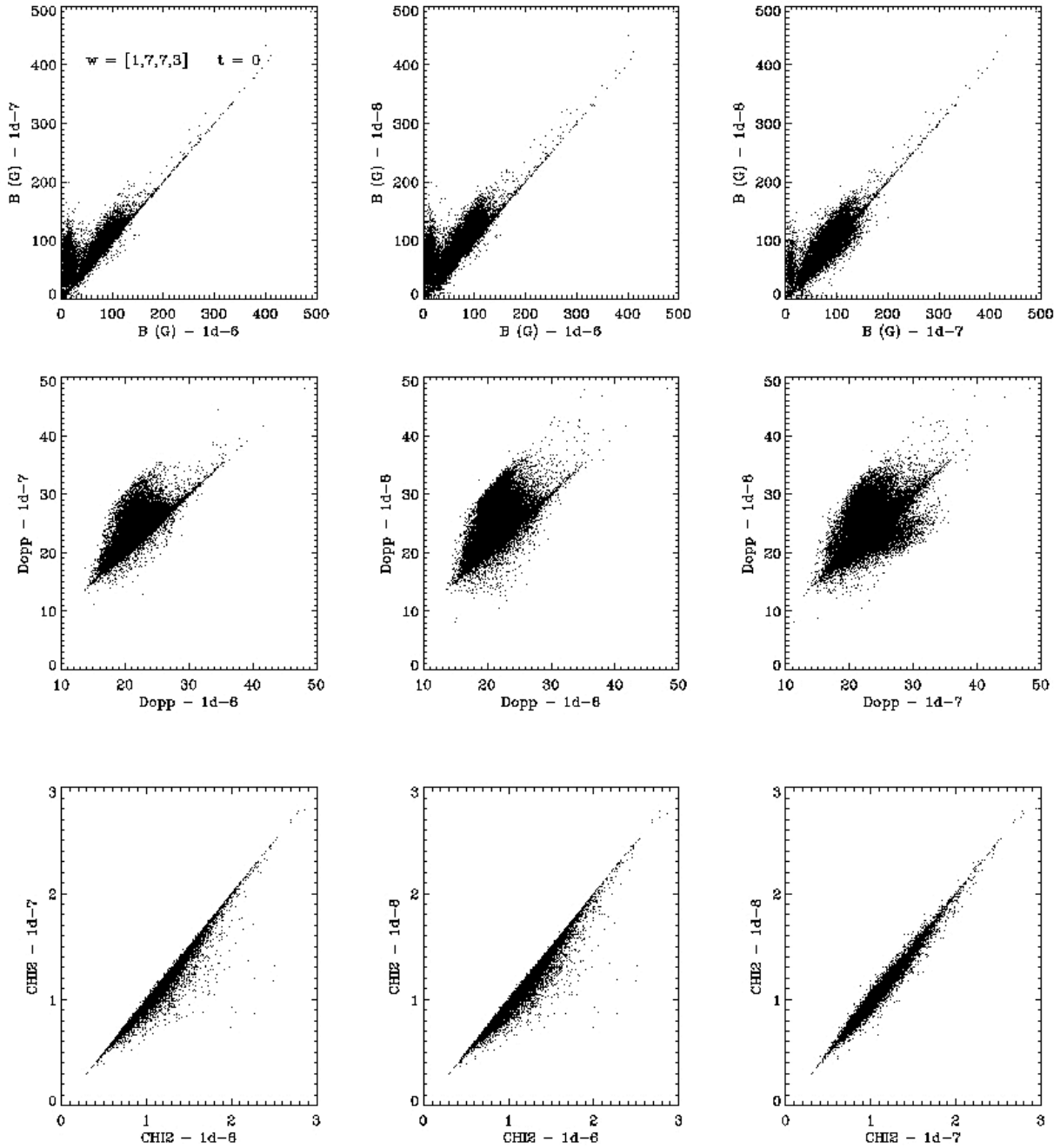
Scatter plots for  $w = [1,3,3,2]$  of B strength, Doppler Width and Chi2:



# Scatter plots for $w = [1,5,5,3]$ of B strength, Doppler Width and Chi2:



Scatter plots for weights [1,7,7,3] of B strength, Doppler Width and Chi2:



Changing the chi2\_stop value from 1d-6 to 1d-7 results in an increased magnetic field strength. Also, if I remember correctly, the inclination would converge to 90 degrees for more pixels - which is in part responsible for the increase in magnetic field strength. The Doppler width also increases, while chi2 decreases. However, changing the chi2\_stop value from 1d-8 to 1d-8 produces more symmetrical scatter plots, indicating that the results do not change that much in terms of the fitting.