

A scatter plot showing the distribution of stars in the sky. The plot uses black dots of varying sizes to represent stars of different magnitudes. A legend in the bottom right corner indicates that the size of the dots corresponds to stellar magnitude, with the text " $< 6.50$  mag". The background features a grid of dotted lines forming a coordinate system. Several prominent stars are highlighted with large, solid black circles. These include a very bright star at the top center, another at the bottom left, and several others of moderate brightness scattered across the field.

$< 6.50$  mag