Looks good, David. If you really want to impress astronomers, you might
add a few range compression methods:

1. histogram equalization (done well, is rare).
2. The ASINCH scaling, which is linear at the low end, and logarithmic
at the high end (which is about perfect for showing noise properties and
high contrast features all at once). Robert Lupton wrote such a beast
in IDL already:

 http://cheops1.uchicago.edu/idlhelp/sdssidl/plotting/tvasinh .html

His website links to a little paper describing the method (which has
some very nice properties,   but occasionally produces strange-looking
images:

http://www.astro.princeton.edu/~rhl/PrettyPictures/

The trick will be coming up with an easier way to set the 2 parameters
required that affect the scaling.

JD