

Omega Cen
in

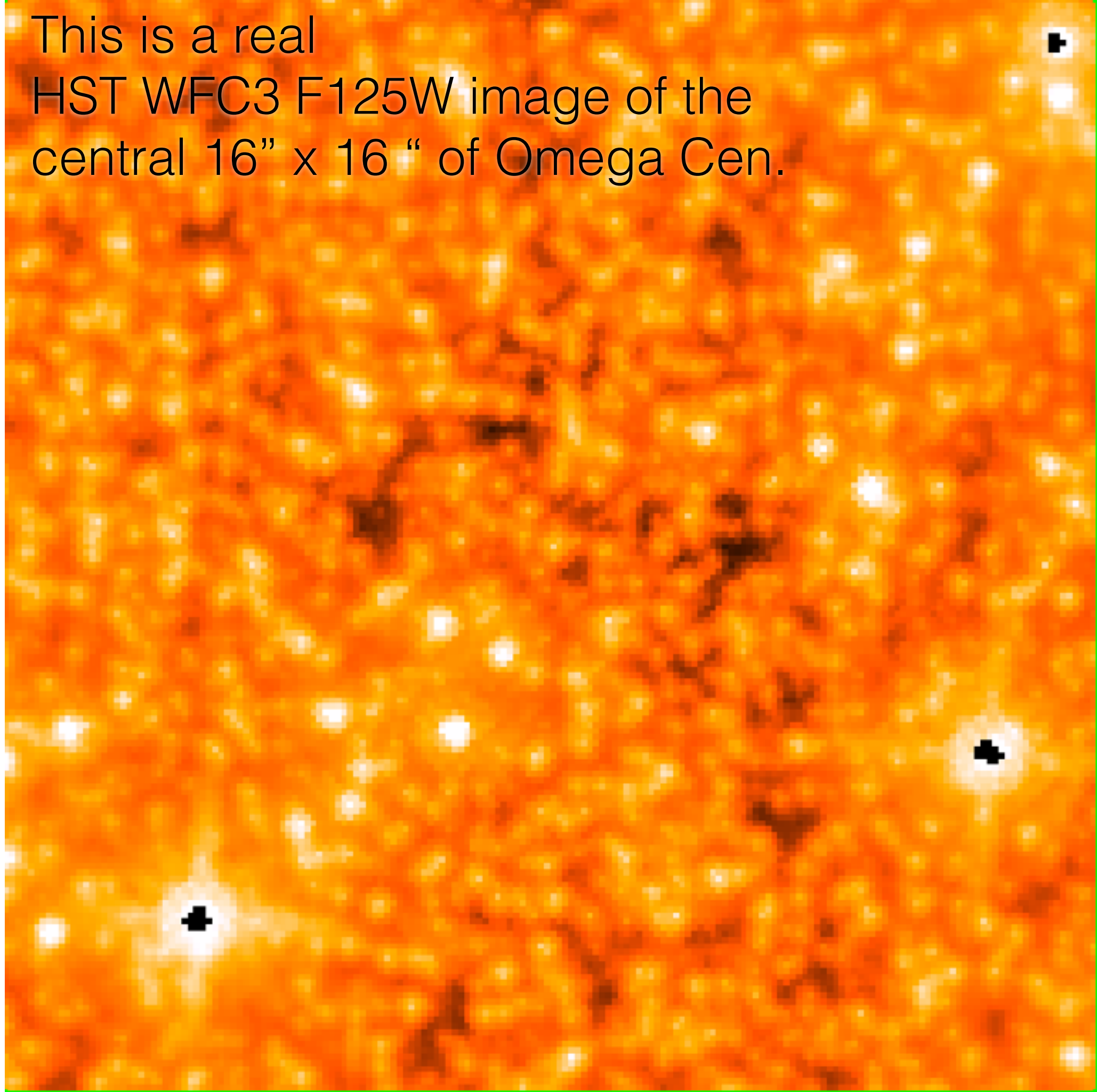
SIMCADO

by Maximilian Fabricius

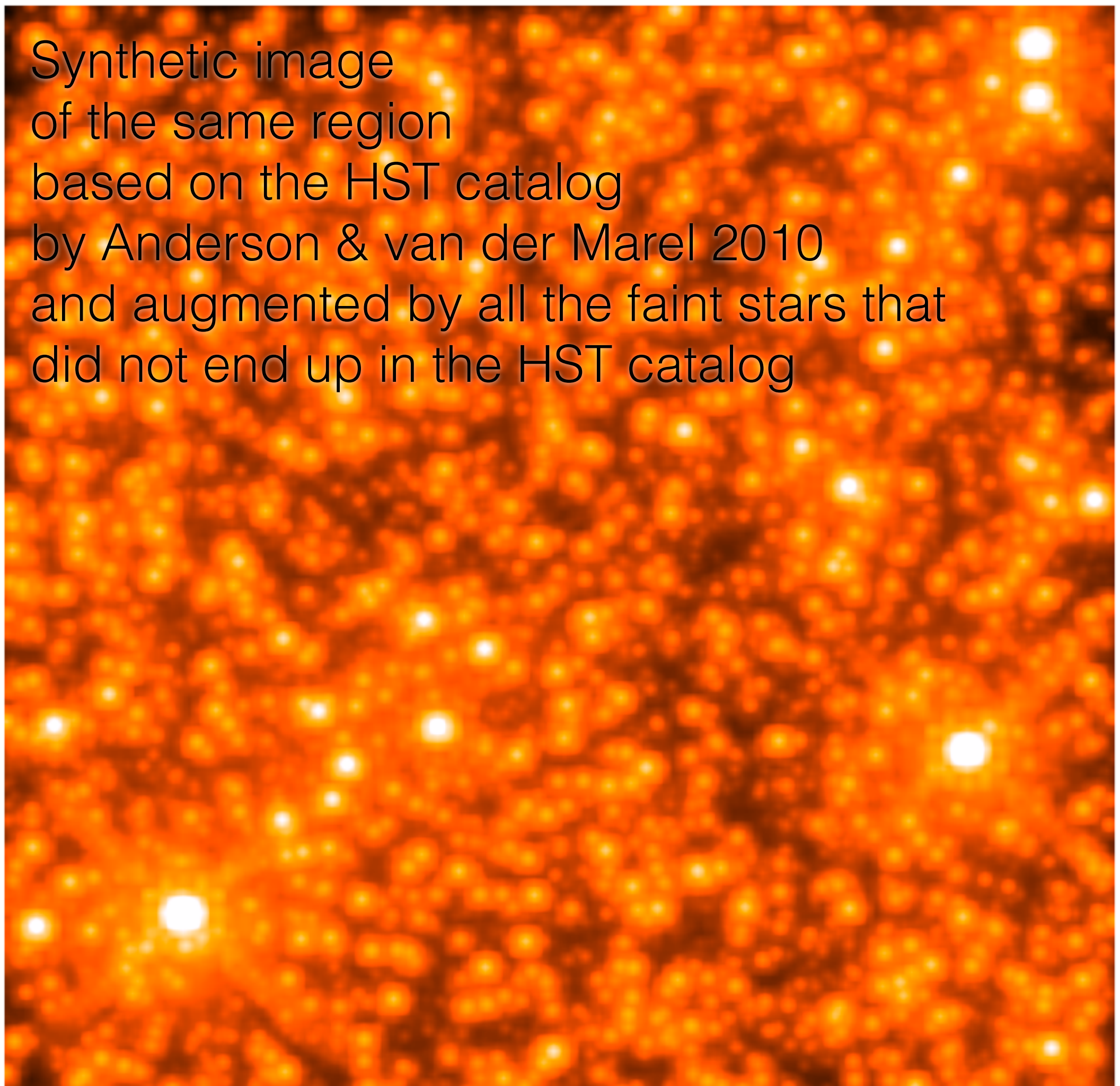
MICADO pixel...

- are really small.
- In the Anderson & van der Marel catalog, there are 1.2 million stars in the central $\sim 200'' \times 200''$ of Omega Cen.
- This would make for about ~ 1 star of every 2000 ($= 44 \times 44$) pixel of MICADO in Wide Field mode!
- This makes for a boring scenery.
- So the catalog should be augmented with the faint stuff that HST won't see.
- I used a Padova luminosity function for this and matched its bright end to the catalog luminosity function.

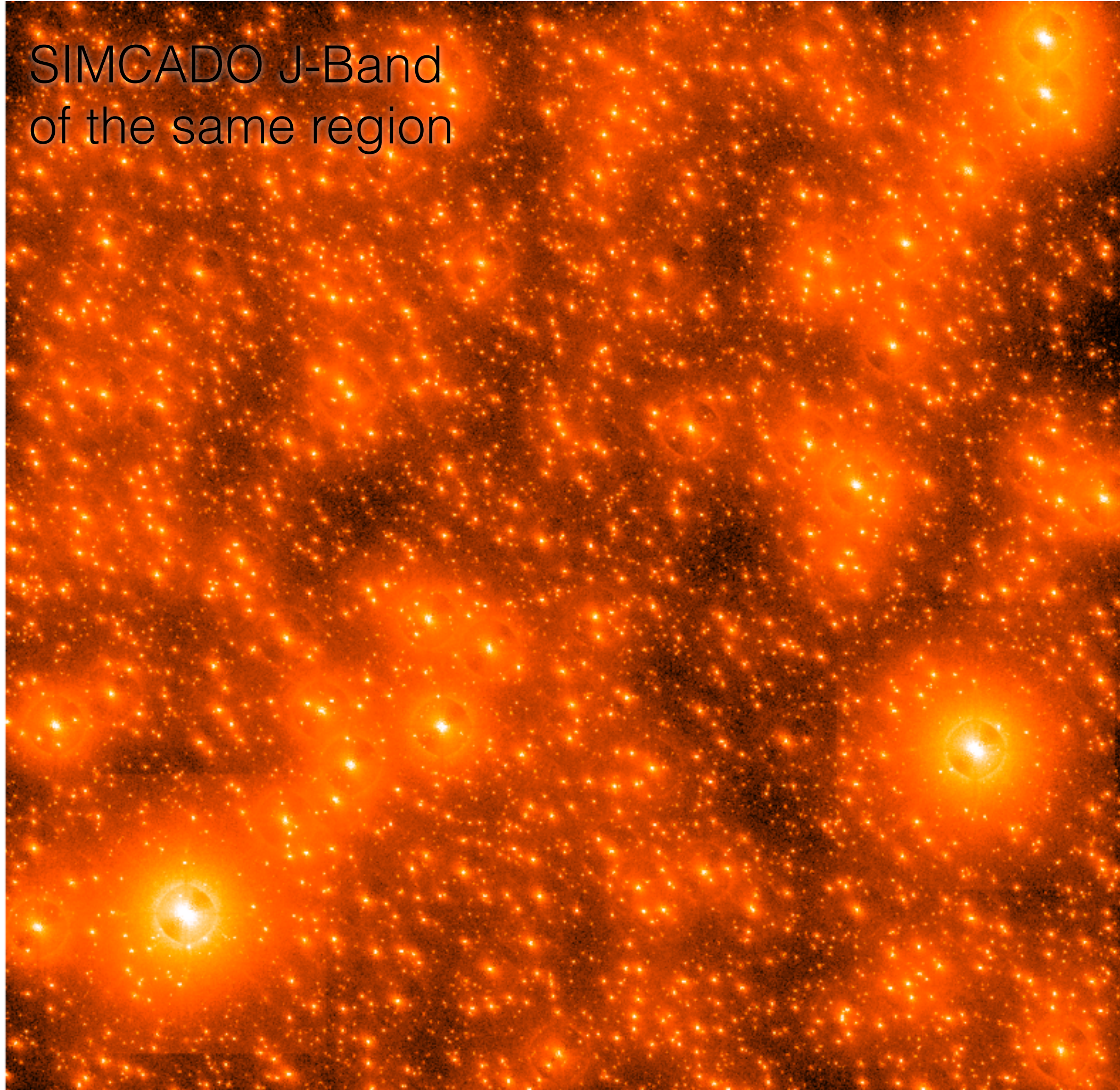
This is a real
HST WFC3 F125W image of the
central 16" x 16" of Omega Cen.



Synthetic image
of the same region
based on the HST catalog
by Anderson & van der Marel 2010
and augmented by all the faint stars that
did not end up in the HST catalog



SIMCADO J-Band
of the same region



Caveats

- No realistic ETC done. Not sure how many of the faint stars we will actually detect.
- The catalog has R mags rather than J mags. I implicitly assume a constant color.