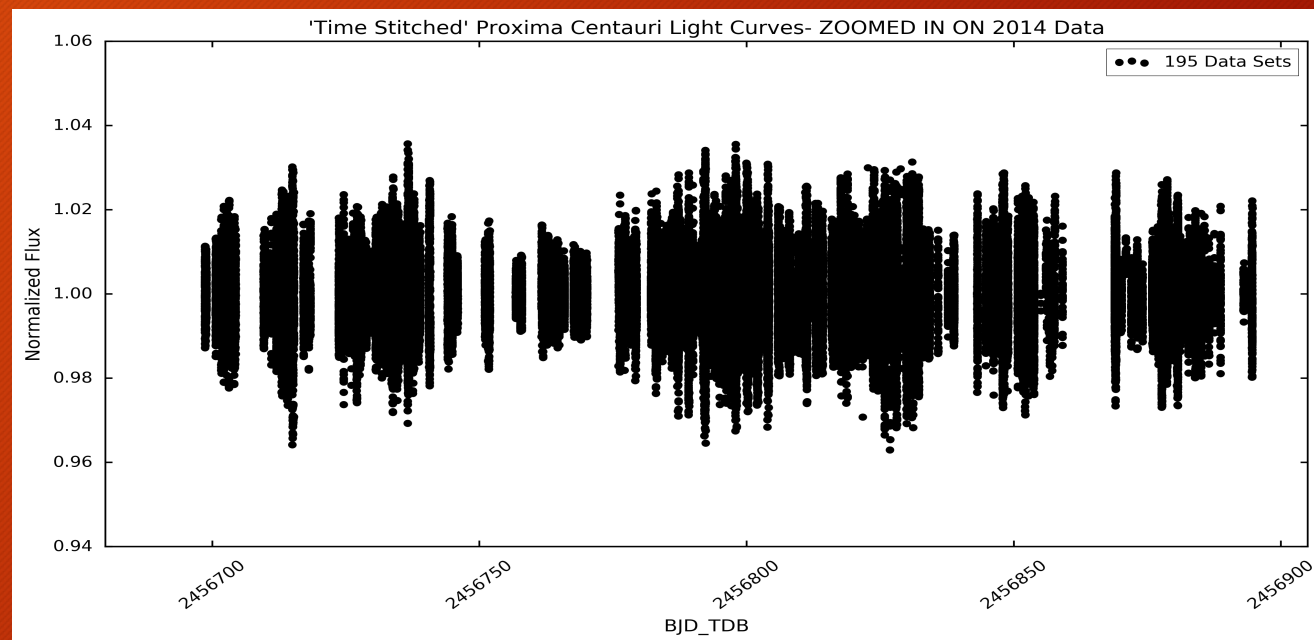
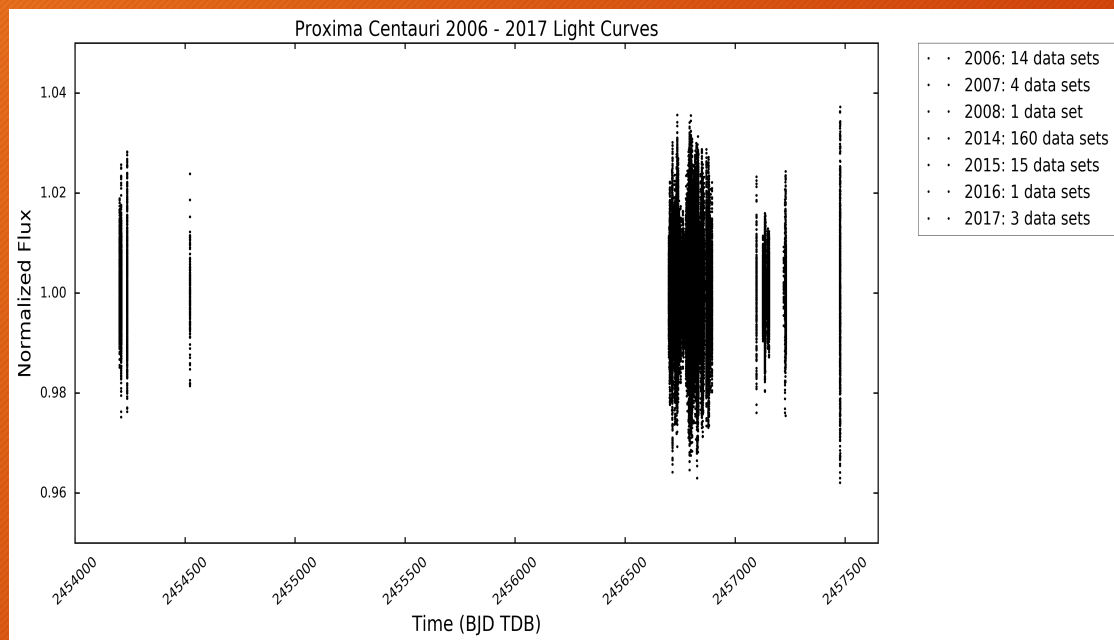


# A Multi-Year Transit Search for Proxima Centauri b

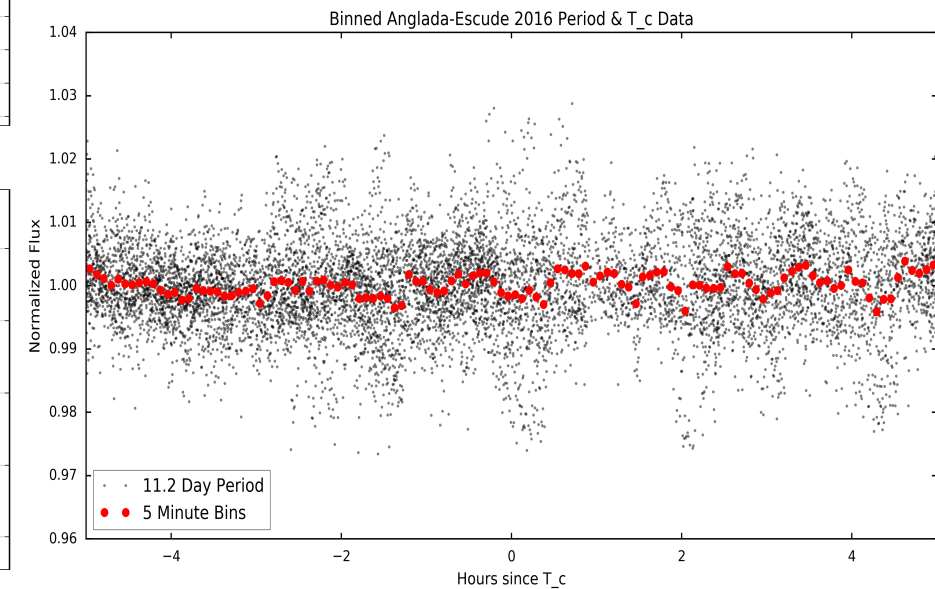
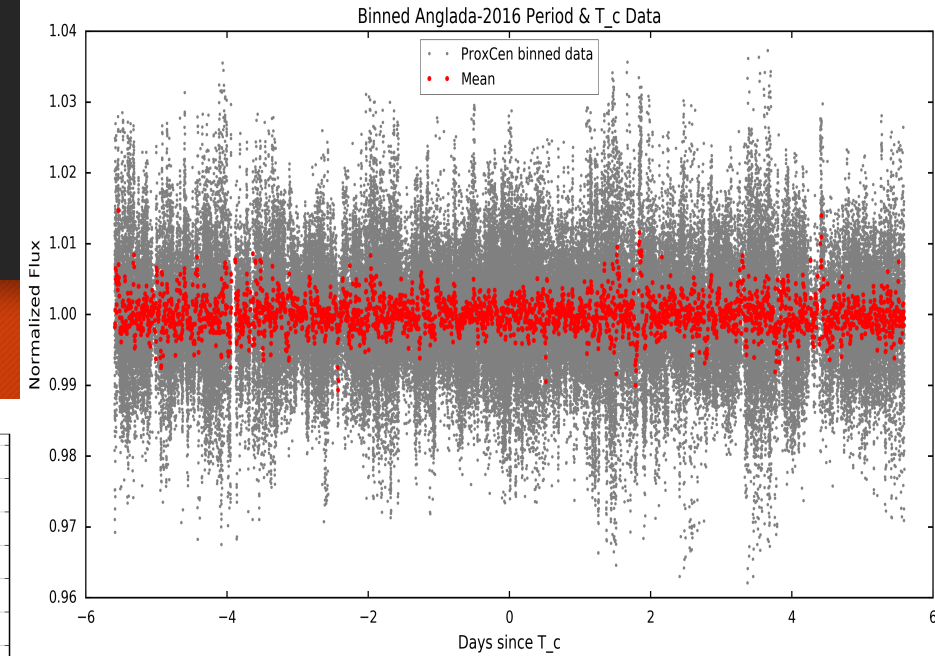
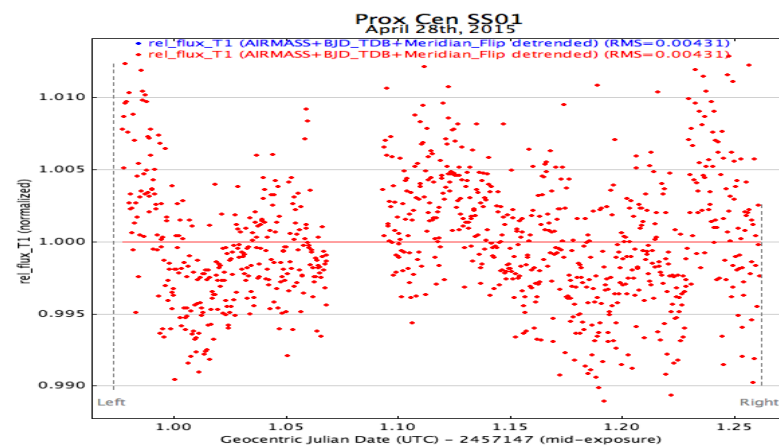
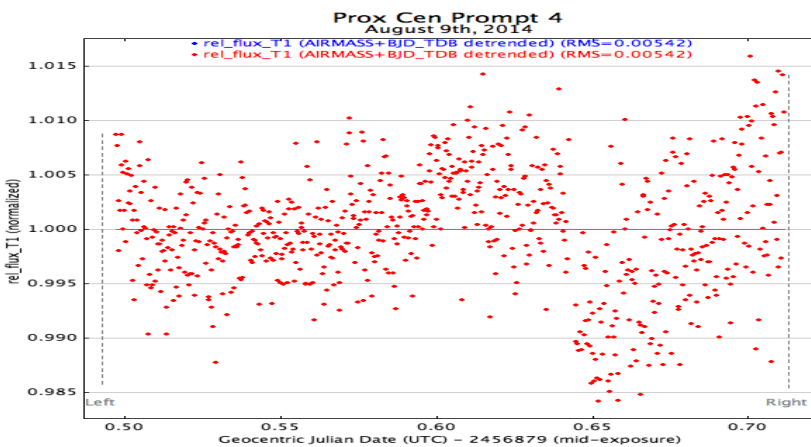
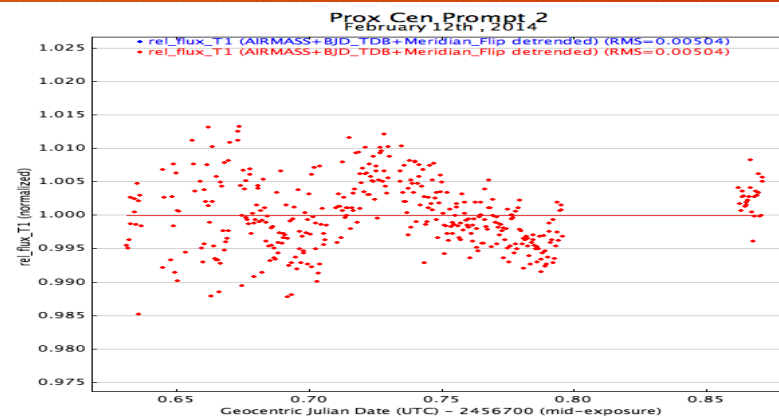
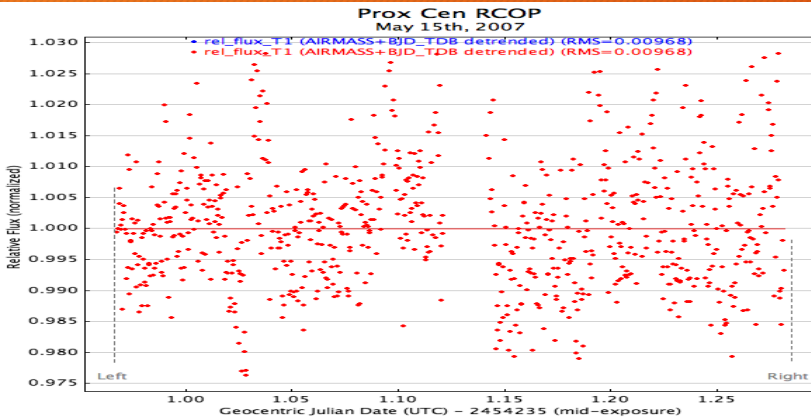
Dax Feliz<sup>[1,2]</sup>, Karen Collins<sup>[2]</sup>, Keivan Stassun<sup>[2]</sup>, David Blank<sup>[3]</sup>, Graeme White<sup>[3]</sup>  
Fisk University<sup>[1]</sup>, Vanderbilt University<sup>[2]</sup>, University of Southern Queensland (Australia)<sup>[3]</sup>

- Using a combination of SKYNET and KELT-FUN data spanning from 2006-2008, 2014-2017 we have ~ 332 nights of time series photometric observations of Proxima Centauri.
- We have combined our datasets and are in the process of running the BLS VARTOOLS algorithm to search for periodic events



# Some Example Light Curves

- Expected Transit Duration: ~ 1 to 2 hours
- Expected Transit Depth: 5 to 10 mmag





# Preliminary BLS Search: 1-30 days

