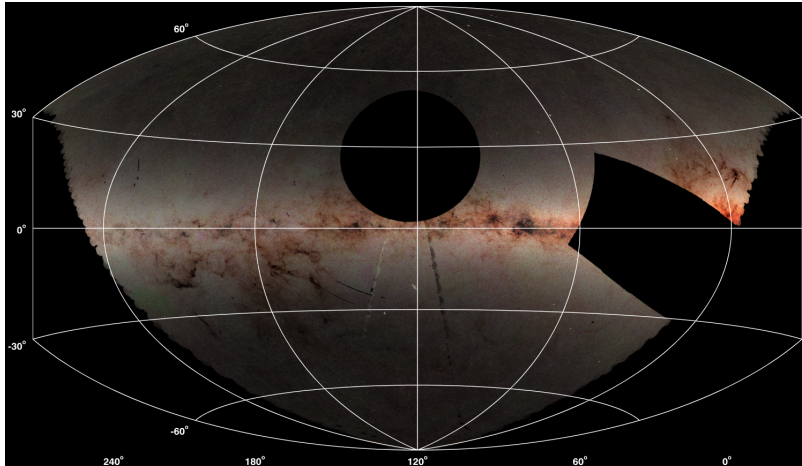
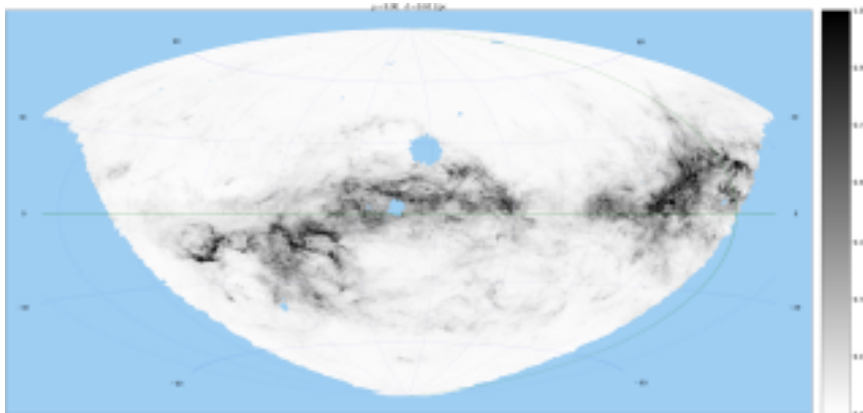


The Pan-STARRS Survey in the VLASS Era

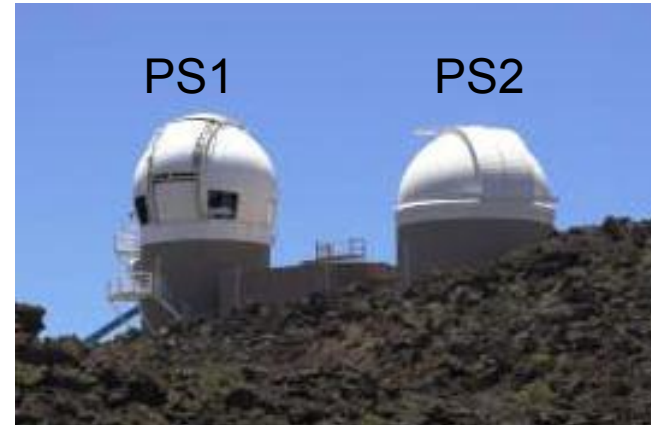


Mean colors Rick White



3D Dust Map G. Green

PS1 Science Special Session tomorrow
at 10 am



PS2 Commissioning Image of
Crab Nebula

Science in summer 2014
Looking for Partners!

The PS1 & PS2 all Sky Survey begins March 1, 2014

- In one lunation cover approximately half the sky (2π Steradians, 20,000 sq. deg)
- 2 wide filters, $w = g+r+i$, (dark time) $x = i+z+y$ (bright time)
- Each point over half the sky
 - visited 4 times in one night (23.6 stack in w , 23 mag in x stack)
 - visited 4 times the next night
 - This is repeated ~two weeks later.
 - 16 visits per lunation, roughly half in blue filter, half in red filter
 - Each point in sky is visited for about 8 consecutive lunations per year for ~3.5 yrs
 - ~128 epochs per year. Powerful time domain survey, and have existing PS1 data
- **In principal, some significant fraction could be scheduled in concert with VLASS for contemporaneous optical and radio time domain studies.**
 - Requires significant coordination and collaboration for the scheduling of some of fraction of the VLASS
- Science
 - GRB orphan afterglows
 - Gravitational wave events (kilonovas, binary neutron star mergers)
 - Galactic transients
 - AGN
 - Supernova