

# Summer 2015

## Major Objectives for 2015

### Catsim:

Update data sets: bright stars, new galfast, (new galaxies?)

Complete the uncertainty functionality in positions/fluxes

Demonstrate we can ingest arbitrary data sets

Complete the CCD pixel prediction

PCA and speed optimization

Variability rework

### Images:

Complete integration of galsim with catalogs (sky background - from opsim, rotation angle of telescope)

Parallelization of galsim

Validation of the PSF classes

Investigate sensor effects for galsim

### Site:

Complete the new sky model - add twilight (forward prediction model)

- Need photodiode data (zero points)
- All except twilight
- Then transparency

integrate with catsim/opsim

add cloud (this is an open question of how to implement cloud)

### OpSim:

Complete the filter change (april 7th)

Reference run to Zeljko (Monday)

Complete refactoring to modular design (development path)

-- DDS eval (Michael)

-- extract scheduler

-- modularize the scheduler (constraints specification)

-- Telescope model will be the initial design (one model for opsim and T&S)

-- simple scheduler information (ajc)

Prep for workshop

Rolling cadence Tier 2s (+others?)+

Cloud hosting (ajc) for Tier 1's

SRD metrics (email out the srd/science list and which have defined constraints)

Temporal constraint

### Alerts:

communication testing

simple filter for esper

cutouts generation

cutouts transmittion

inclusion of new sim developement(s) (permanent one - always in progress)