# *Survey a Region* Use Case

**UC-SCI-008: This use case is a special case of the "Observe With CTA" case with implications on the following: (will become specifications)**

- Scheduler
  - must be able to optimize coverage of a large sky region
  - try to get uniform exposure, must be able to go back and fill in gaps when missed, even out exposure.
  - Definition of "flat exposure" needs to be made (is energy and telescope-type dependent)
- User proposal tools:
  - need ability to specify a region instead of a point in space in the proposal
  - should provide way of optimizing the grid spacing (sensitivity, flatness of exposure vs speed of coverage and total observation time)
- Automated analyses (Level A-C):
  - identify unexpected sources (no associated with proposal or known-VHE source catalog)
  - Look for transients (not strictly part of this use case, but related)
  - These are mostly satisfied by other UCs, so are not special to this one

# Status

**Not much more to talk about here:**

- Covered well at last meeting
- only a few comments in Jama
- Much overlap with Observe With CTA general case (which should be the main focus)

**Next steps:**

- clean up the draft, incorporate the comments
  - note: I didn't have much time to work on this recently, but can start again. Need some help though!