HI Beacon Mode

- HI is a unique instrument for space weather, providing the first opportunity to view CMEs heading along the Earth-Sun line - vital that the data that goes into the Beacon telemetry stream is most useful it can be.
- Current SECCHI Beacon telemetry allocation allows for 7 256x256 images per hour.
- Simulated HI images with a base frame subtracted indicate signal to noise and resolution is good in images binned to 256x256.
- Current proposal is to alternate HI1 and HI2 images of this resolution every hour.

HI Beacon - questions

- Time taken for a CME to cross into the HI2 FOV is approx 27 hours at 400 km/s and 5.5 hours at 2000 km/s - do we want to consider the use of a trigger to switch between HI1 and 2 FOVs?
- Would we miss events doing this given CMEs are sometimes close in time?
- For fast events do we want more than one image per hour?
- Are there other simulations that would be useful?
- Do we have to worry about compression?