

Commitment goal

Getting a black and white image up on the VGA screen from any transmission of the GOES satellite. The FPGA will start with some binary, end with an image.

Goals

- Getting multiple channels up (red, blue) to have some semblance of color
- Getting a “large” image up (requires decimation, for example CONUS)
- Symbol demodulation in hardware (BPSK)

Stretch goals

- Full disk image
- Green channel (reconstructed from multiple other channels)
- Processing at a rate greater than the real-time transmission
- Extra bonus: hook-up to a live antenna! (*highly unlikely*)