SOFTWARE
We are preparing to process a large number of sequential days of GONG++ data, perhaps as much as 365 days worth of continuous data.

The latest GONG++ pipeline research involved deciding which merging and tracking methods produce the best, cleanest results. We have experimented with various interpolation methods (SPLINE, SINC, LOOKUP) implemented at different points in the pipeline, along with Image Restoration using Modulation Transfer Functions (MTFs).

After quite a few permutations, we have decided to use image merging without image restoration but with a newly crafted SINC/LOOKUP interpolation. The data tracking and cube generation will use a SPLINE/LOOKUP interpolation method.

We are confident that these design choices will provide the best results for the next phases of our GONG++ pipeline.

HARDWARE
We are continuing to fine tune our gongxx hardware. Using the latest software from Veritas, we now have a single 4 TB partition that automatically communicates and migrates data to the 18 TB tape library, making for a single 22 TB partition.

As with all new installations, there are a few rough edges, but we are smoothing them out.

FUTURE
Once our initial GONG++ pipeline is fully functional, we will be creating an operator interface to drive the pipeline.

In addition, other GONG++ pipeline research is continuing: far side imaging and time/distance local helio-seismology.