

National Radio Astronomy Observatory
Tucson, Arizona
February 24, 1989

MEMORANDUM

To: D. T. Emerson

From: P. R. Jewell *PRJ*

Subject: More on Pointing

I've thought a bit more about our pointing problem and how to allocate some resources to it without derailing other important projects. Here are a few possibilities:

1. After VLBI and the 8-beam receiver observations are finished, put Antonio on the quadrant detector, weather station, and thermistor project for up to 2 months. He would try to get the analog signals digitized in the FEDAL and onto a GPIB so that we could at least read them with a PC or the VAX. We should consider converting the quadrant detector to a switched-power system because precision is essential. Any time he spends on these projects will delay completion of the new generation receivers, of course.
2. After John finishes his primary round of work in Charlottesville and produces cryostats and optics for the 3 mm and 1.3 mm systems, ask him to devote a month or two to work on pointing. In particular, I would like him to work on the inclinometer systems and other auxiliary measurement systems. These will all require very careful engineering if they are to work, and John is the best person for this. I am presuming that after the cryostat and optics are completed, others can proceed with the receiver packaging.
3. I would like to have Tom all summer and Ray for part of it for work on the next generation optical telescope. Tom would work on the frame grabber system and Ray would outfit and mount a new telescope. I would like to consider moving the telescope from the apex to the base of the south feedleg.