



NATIONAL RADIO ASTRONOMY OBSERVATORY

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To: ALMA-NA
From: Marc Rafal
Subject: North American Frontend Assignments
Date: 3-14-02

One of the first assignments I gave Charles Cunningham when he assumed the position of Frontend Division Head was to recommend to me an assignment of where those frontend tasks assigned to North America should be done. Charles has completed that task and I concur with his recommendations. I have listed below the major tasks assigned to each of the North American frontend centers.

Tucson:

- Evaluation frontends
- Frontend integration center
- Frontend electronics
- Frontend monitor and control
- OMTs for bands 3 and 6
- Frontend calibration systems
- Photonic development

CDL

- Band 6 cartridge fabrication
- SIS mixer for band 6
- Cold multipliers for bands 6, 7, 9
- Warm multiplier assemblies for bands 3, 6, 7, 9
- IF amplifiers for band 6

HIA

- Band 3 cartridge fabrication
- SIS mixer for band 3
- IF amplifier for band 3 (with CDL collaboration)

Clearly each of the centers has a very full and challenging set of tasks to carry out. There is much work ahead as we prepare to invest more than \$50M building our portion of the ALMA frontend subsystem.