



# ALMA BOARD

ALMA EDM Document	2007-056-O
Distribution	Ordinary Session

**Subject:** Project Scientist's Report May 2007

**AUTHOR(S):** A. Wootten

**Purpose of Document:** To provide the Board with the Project Scientist's Report of May 2007

**Status:** for information for May 17, 2007 AB Telecon

**Project Scientist Report**  
**Al Wootten (Interim JAO PS)**

2007 May15

**1) Highlights of Recent Events**

**ASAC.** The ASAC held their face-to-face meeting at the University of Tokyo May 7-8, in Tokyo. There was a laboratory tour at the National Astronomical Observatory of Japan, which was held in the afternoon of May 8, 2007 after ASAC F2F Meeting. Topics discussed included the Charges from the Board, Project progress, and the future of the ASAC. The ASAC Chair may report on this meeting. Most papers from the recent ALMA meeting in Madrid are in the publisher's hands; efforts continue to extract a few key remaining papers from speakers.

**Project Reviews.** Hills and Laing are attending the Front End Optics FDR in Grenoble.

**Prototype System Integration.**

Science IPT members, led by Darrel Emerson, manned the ATF to provide expertise. During the period, Darrel Emerson, Alison Peck, Al Wootten and Robert Laing have been at the ATF; Mangum has participated remotely.

**Configuration Design.** CASA simulation of ALMA imaging continues, including antennas in the ACA. Rob Reid leads this effort, a report on which was presented to the ASAC.

**Calibration.** Establishment of a weather station at the OSF continues. Procurement of weather stations for the AOS is proceeding. CREs for Band 7 were discussed; they result in a small decrease of sensitivity in that band. Sideband rejection ratios also require lowering specifications; mitigation plans are being developed.

**Imaging.** Science IPT members are participating in testing of the ALMA software with the CASA group.

**EPO.** The EPO Plan was discussed by the EPO Working Group in Tokyo. Presentations were made to the ASAC for their consideration in response to their charge.

**2) Near-term Actions and Concerns (for Board information)**

The Design Reference Science Plan (DRSP 2.0) was presented to the ASAC. Distillation of its message continues.

Optical and radio pointing and holography have not progressed owing to software and hardware problems at the ATF.

### **3) Board Decisions Requested**

No Board decisions are requested at this meeting from the Project Scientist.