

45th IAA SYMPOSIUM ON THE SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE (SETI) –
The Next Steps (A4)
SETI 1: SETI Science and Technology (1)

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INITIAL RESULTS OF UCLA SETI OBSERVATIONS

Abstract

As part of a pilot SETI course, UCLA graduate students designed and conducted observations of the Kepler field with the Allen Telescope Array (ATA) on May 6, 2015. In addition to calibrators, a total of 36 sky positions were observed with a center frequency of 1414 MHz and 24 MHz bandwidth. Raw baseband voltages were recorded in phase and quadrature, yielding a 10-terabyte data set. Searches to date have focused on identifying narrowband signals or short pulses in the data. On April 15, 2016, additional observations will be conducted with the Green Bank Telescope and the Arecibo telescope as part of a UCLA course titled “Search for Extraterrestrial Intelligence: Theory and Applications”. Both undergraduate and graduate students will participate in designing, conducting, and analyzing the observations. Initial results from both the 2015 and 2016 observations will be presented at the meeting.