

The NEID GTO Program: Status of the NEID Earth Twin Survey and Early Science Results

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The NEID team has been monitoring a carefully curated sample of bright, RV-quiet, Sun-like stars to search for low-mass, long-period exoplanets as part of the NEID Earth Twin Survey (NETS). With just over a year of observations in hand, the NETS data set is proving to be a rich resource not only for the detection of new exoplanets, but also for diagnosing emergent issues with the spectrograph and pipeline and as a means of characterizing stellar variability signals at the sub-m/s level. I will report on the status of the survey and data analysis efforts, and I will present and discuss examples of stellar and planetary signals that have been identified in the data collected thus far. I will also discuss the NEID team's interest in sharing data and prospects for collaboration with other teams as we collectively strive to leverage the precision capabilities of state-of-the-art spectrographs for the discovery of Earth analogs.