

Abstract Submitted  
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**Rapid Response for Observational Astronomical Transient Events and Monitoring** MICHAEL HIBBS, Department of Engineering and Physics, Tarleton State University — There is a need for Rapid Confirmation of Transient Events that smaller research grade university observatories can fulfill. These include: 1) Asteroid and Comet Discovery Confirmation; 2) Data Collection for Orbital Predictions; 3) Initial Nova and Super Nova Light Curves. In addition to the availability of a telescope, the faculty and undergraduate students can provide the manpower and expertise to conduct long term observational data for: 1) Long Term Monitoring for Determination of Orbital Elements of Asteroids and Comets; 2) Extra Solar Planetary Confirmation and Long Term Data Collection. Tarleton State University is meeting these needs through: 1) Research Grade 32-inch Telescope; 2) Availability of telescope for Rapid Response; 3) Faculty and Undergraduate Time for Observations and Data Collection; 4) 2400 X 2400 CCD Camera and filters and 5) High Percentages of Clear Skies, Mid Latitude and Central Time Zone

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