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## The Energetic Neutral Atom Imager (NUADU) on TC-2 and ENA data recorded by this instrument during a major magnetic storm in November 2004

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The NUADU (NeUtral Atom Detector Unit) on TC-2 is designed to remotely sense  $4\pi$  distributions of energetic neutral atoms (ENAs) in the range 45 - > 158 keV through employing 16 solid state detectors and exploiting spacecraft spin. In the present paper a technical account of this instrument is provided. Shortly after the commissioning of NUADU, very intense, late cycle, solar disturbances occurred that lead to one of the most intense episodes of geomagnetic storm activity (Dst = -383 nT November 7-8, 2004) recorded during solar cycle 23. Observations made by NUADU of the response of the ring current to the disturbed interplanetary conditions pertaining during this period, and also of the bright neutral atom auroral emissions associatively stimulated, are presented and discussed.