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About the Cover: The warm-core structure is an important parameter in monitoring TC intensity, studying TC inner core dynamics, and building the initial vortex for a TC simulation and forecast. Warm core structures can be obtained from linear regression using ATMS channels that are not strongly contaminated by precipitation. The cover figure shows the vertical cross section of Hurricane Harvey temperature anomaly structures retrieved from ATMS observations around 1800 UTC on August 24 in the along-track direction through hurricane center. At that time, Harvey was at Category 1 hurricane according to the Saffir-Simpson scale with an MSW of 85 mi/h and MSLP of 979 hPa. A maximum warm core of approximately 8 K temperature anomaly is retrieved near 250-hPa level. For more information please see "Estimation of Hurricane Maximum Wind Speed Using Temperature Anomaly Derived from Advanced Technology Microwave Sounder" by Lin and Weng, which begins on page 639.