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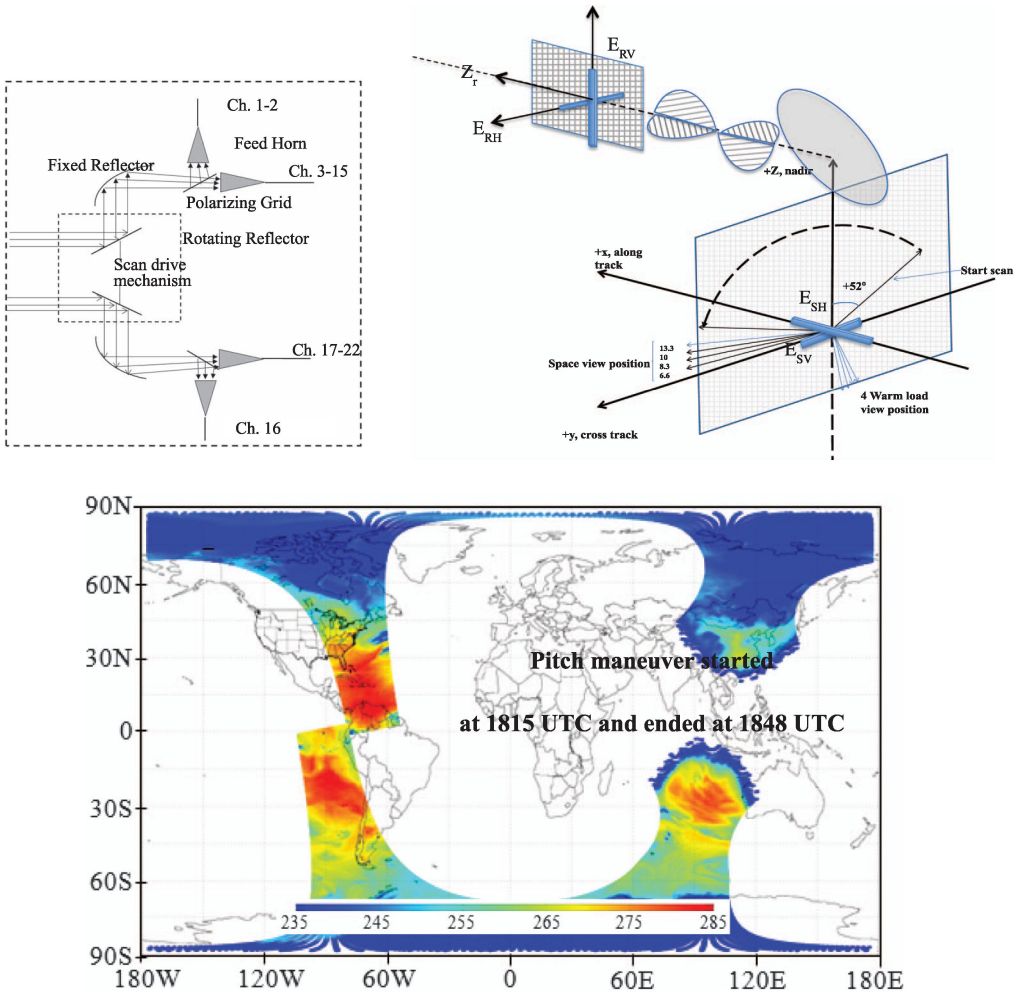

Advanced Technology Microwave Sounder (ATMS) onboard the Suomi NPP satellite. (Left) Schematic of the antenna subsystem. (Right) Sketch plot for polarization direction definition. (Bottom) Orbital brightness temperatures.

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About the Cover: The cover describes the Advanced Technology Microwave Sounder (ATMS) onboard the Suomi NPP satellite, including (top) a schematic of the antenna subsystem (left) and a sketch plot for polarization direction definition by taking the scan plane and the reflection plane as reference frames, respectively (right). An example of the SNPP ATMS orbital brightness temperatures at channel 18 on February 20, 2012 is also depicted at the bottom. For more information please see "Estimation of ATMS Antenna Emission From Cold Space Observations," by Yang *et al.*, which begins on page 4479.