

This poster focuses on the challenge of inter-calibrating these MW radiometers at the sensor level and then producing consistent climate data records (CDR). In total, there are 184 satellite years of observations that need to be consistently processed in order to provide the community with reliable climate information. Sensor related issues such as spacecraft pointing and attitude errors, emissive antennas, sun intrusion into hot loads, and long-term stability will be discussed along with the MW radiative transfer model and the associated retrieval algorithms. We will describe a holistic approach to CDR generation that considers all aspects of the problem, including sensor calibration, geophysical retrievals, and product validation. Climate trends from different satellites will be compared to assess the reliability of the trend estimates.

3. The Fundamental, Fundamental Data Record: Radiometer Counts

Non-Controversial

SSM/I V7 Brightness Temperature archived at NCDC early 2012.

