

Title: Providing SSM/I Fundamental Climate Data Records to NOAA

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Institution: Remote Sensing Systems

Background

The Special Sensor Microwave Imagers (SSM/I) are a series of 6 satellite radiometers that have been in operation since 1987. These satellite sensors measure the natural microwave emission coming from the Earth's surface. These emission measurements contain valuable information on many important climate variables including winds over the ocean, the moisture and rain in the atmosphere, sea ice, and snow cover. However, the extraction of this information from the raw satellite measurements is a complicated process requiring considerable care and diligence. The first step in the process is the generation of Fundamental Climate Data Records (FCDR) of the sensor measurements in terms of antenna temperatures and brightness temperatures.

Additional Information may be located at:

<http://cicsnc.org/projects/frank-wentz.html>