

SATELLITE STATUS REPORT

Matthew A. Lazzara^{*1} and David Mikolajczyk¹

¹Antarctic Meteorological Research Center, Space Science and Engineering Center
University of Wisconsin-Madison
Madison, Wisconsin

<http://amrc.ssec.wisc.edu/>

1. OVERVIEW

The last few years have been witness to some significant change in satellite meteorology. New satellites have been launched, tested and are now operational offering more capabilities than ever before. One such example is the availability of the Suomi-NPP satellite, which AMRC is now processing with the support of the Community Satellite Processing Package (CSPP, Figure 1). Regrettably, budget limitations and delays have altered the landscape of operational and research weather satellites on both a domestic and international basis. These and other factors impact on-going efforts including the generation of composite imagery products (Figure 2).

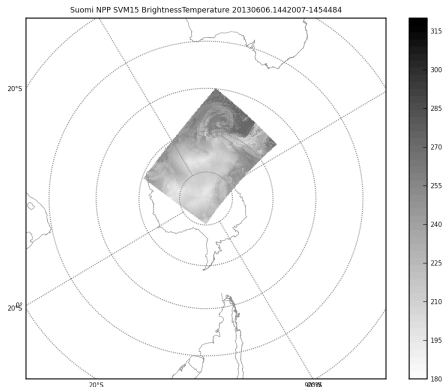


Figure 1. McMurdo Station, Antarctica is now capturing Suomi-NPP satellite observations, as seen here in this infrared granule quick look image generated by the CSPP software.

This presentation will provide an overview of several meteorological satellite systems including their current status and future launch plans. Current capabilities in operation, as well as those being demonstrated and tested within the US Antarctic program, will also be discussed. A brief orbital analysis will be shown regarding the gap in satellite coverage during the operational day at McMurdo Station, Antarctica.

2. ACKNOWLEDGEMENTS

This material is based upon work supported by the National Science Foundation, grant #ANT-1141908 and the SPAWAR Office of Polar Programs.

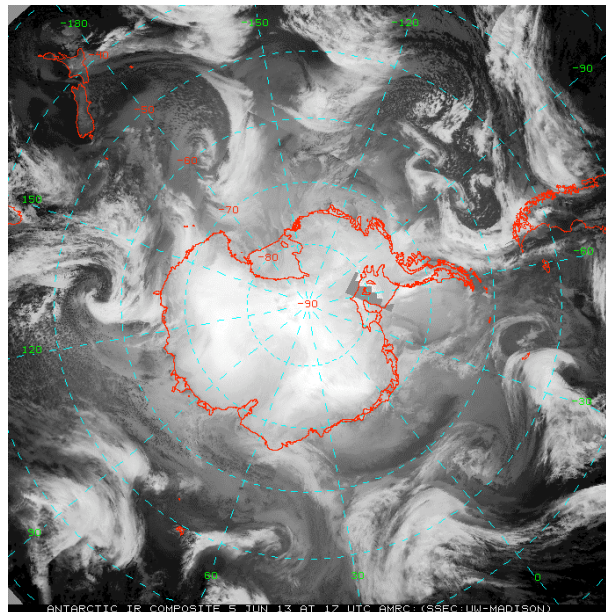


Figure 2. The Antarctic satellite composite imagery relies on a variety of input satellite observations from both geostationary and polar-orbiting platforms. This infrared window (11.0 μm) composite is from 17 UTC on 5 June 2013.

• Corresponding Author: Matthew A. Lazzara
Antarctic Meteorological Research Center, Space Science and Engineering Center, University of Wisconsin-Madison
Email: mattl@ssec.wisc.edu

