

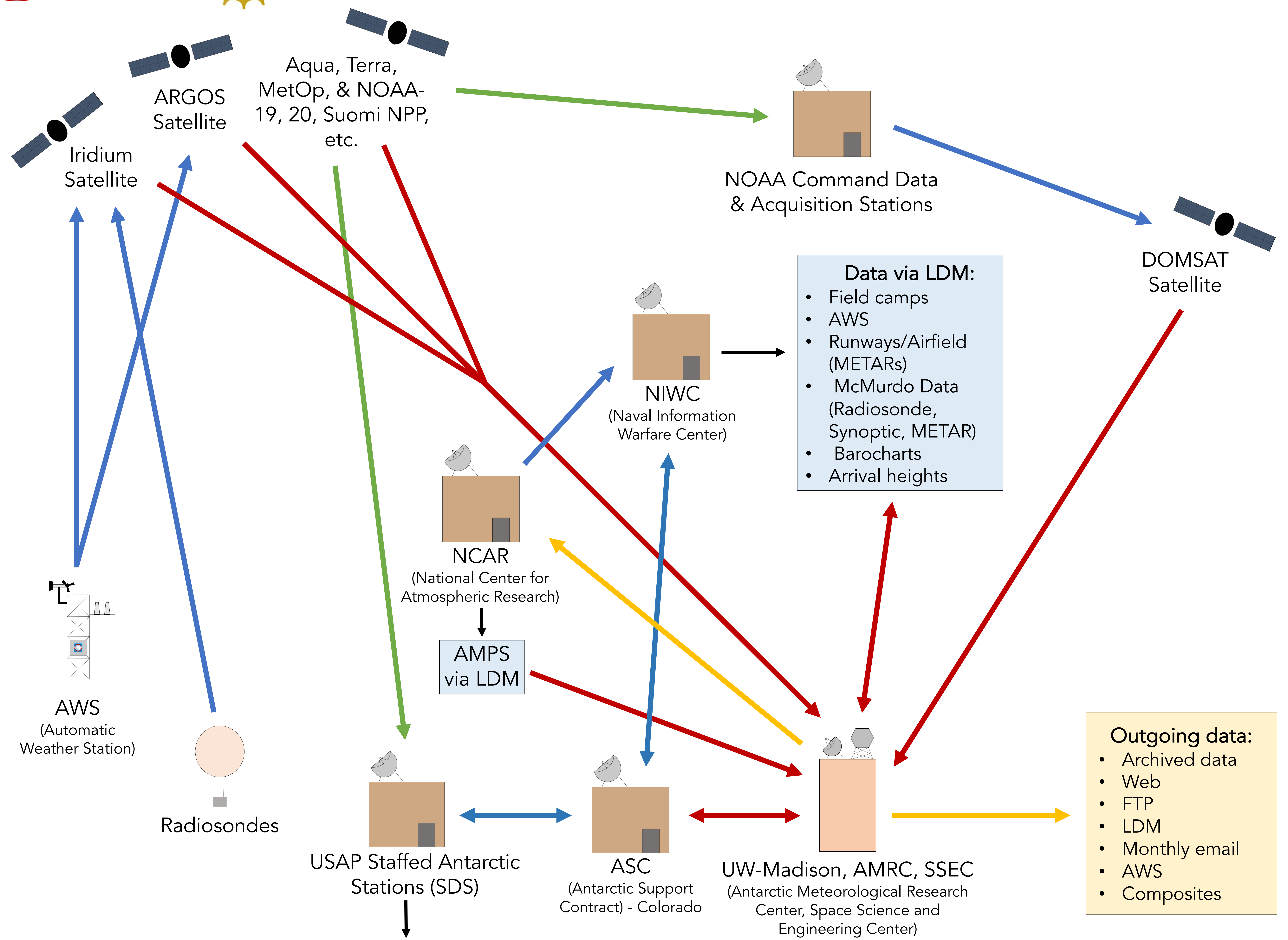
USAP DATA FLOW DIAGRAM

Taylor P. Norton^{1,2}, Sophie A. Orendorf^{1,2}, and Matthew A. Lazzara^{1,3}

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

²Department of Atmospheric Sciences, University of Wisconsin-Madison, Madison, WI, USA

³Department of Physical Sciences, School of Arts and Sciences, Madison Area Technical College, Madison, WI



Data from SDS

SFTP:	Email:	Antarctic-IDD:
<ul style="list-style-type: none"> Radiosonde data from Neumayer, South Pole & Palmer Synoptic reports from South Pole and Palmer 	<ul style="list-style-type: none"> Ship observations Situation Reports (SITREPS) Princess Elisabeth radiosonde South Pole climatological data Palmer climatological data 	<ul style="list-style-type: none"> NIWC McM-AMRC

Legend

- Incoming data to AMRC
- Outgoing data from satellites
- Outgoing data to stations
- Outgoing data to community
- Types of data

Data Flow Information

- Antarctic meteorological observations and datasets originate from various sources both on and off the Antarctic continent.
- The movement of the data takes place over a variety of communication methods.
- Please draw in any missing links you know about!

Suggestions and Future Work

- Re-establish full exchange of data between AMRC and NIWC on station at McMurdo Station.
- Recommend that AMRC formally archive TAFs and other forecast products from NIWC.
- AWS data observations in BUFR format are not yet on the Global Telecommunications System (GTS), however, this work is in progress.
- Any other suggestions are welcome.

Acknowledgements

Support for this project from the Office of Polar Programs, Geoscience Directorate, National Science Foundation via grants #PLR-1625904 and #ANT-1848710 is appreciated. The authors would also like to thank David Mikolajczyk for his aid.

References

Kohrs, R. A., M. A. Lazzara, J. O. Robaidek, D. A. Santek, and S. L. Knuth, 2013: Global satellite composites—20 years of evolution. *Atmos. Res.*, 135–136, 8–34, doi:10.1016/j.atmosres.2013.07.023.

Lazzara, M.A., L.M. Keller, C.R. Stearns, J.E. Thom, and G.A. Weidner, 2003: Antarctic satellite meteorology: Applications for weather forecasting. *Monthly Weather Review*, 131, pp.371-383