

USAP Meteorological Cyberinfrastructure

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Outline

- History
- Current Status
- New Software
- Bridge to the Future
- No Bridge?
- Disclaimer



Abridged History

- 1992: AMRC First funded
 - (one-stop shop for USAP weather – Peter Wilkness)
- 2000: AMRC suffers a gap in funding
- 2011: AMRC last award as a “grant”
- 2014: First visit to NSF
- 2015: Second visit to NSF
 - Funding for AMRC ends
 - Funding for Cyberinfrastructure project begins with AMRC minimal tasks
- 2016: (US Antarctic Meteorological) Task Force Meets
 - (Jeremy) Rusin Report initiated by NSF
- 2017: Community survey and Task Force input to Rusin Report
 - Rusin Report completed
 - Task Force working toward finishing its report
- 2018: Funding ends for Cyberinfrastructure as does AMRC minimal tasks

Status Report

➤ Satellite Composites

➤ Arctic

- Operational at NOAA/NESDIS
- Review of improvement project is under way (no plans for archive)

➤ Antarctic

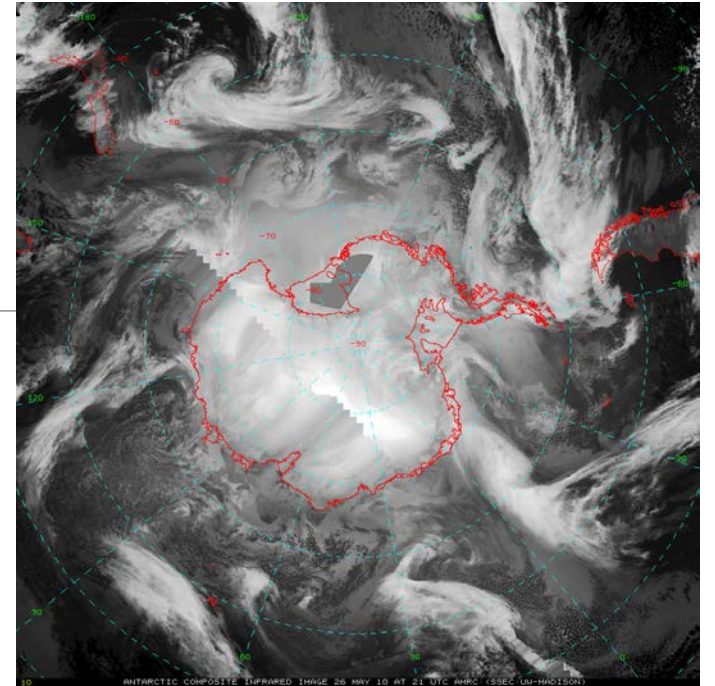
- Supported with minimal funding from SPAWAR (no improvements being made)
- Review of transfer to NOAA/NESDIS and improvements is under way (no plans for archive)

➤ Real-time AWS Observations

- Reliant on 1 outdated ingestor at McMurdo and 1 outdated ingestor at Palmer
 - Still available via Gilmore and Wallops receivers, albeit with a longer delay
- Primarily observations from NOAA-18 (unable to work with NOAA-19, MetOp, etc.)

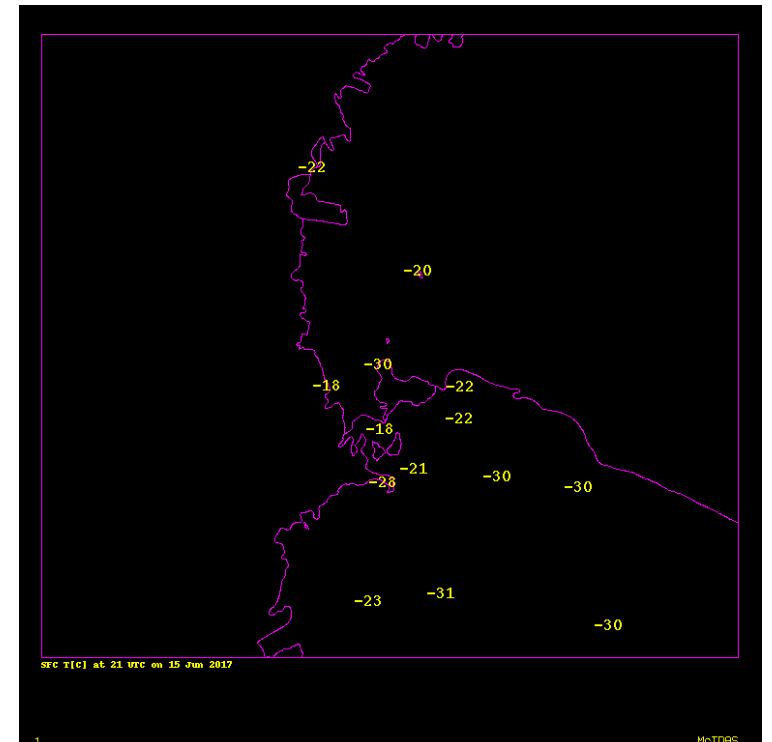
➤ USAP: Field Camp, Main Station, Weather Balloon, R/V Ship, etc.

- Supported under the Cyberinfrastructure grant (ending in 2018).



New Software

- AWS Database create by Bruce Flynn from SSEC (contact me if you'd like to test)
- New Iridium AWS data visualization
- Integration of all UW AWS transmission types into McIDAS format
- Local Data Manager (LDM) maintenance and improvements
- Brainstorming gateway/registration for AMRC/AWS data



Bridge to the Future

➤ Task Force

- Dan Lubin, Kevin Manning, David Bromwich, Mike Carmody, Art Cayette, Jonathan Pundsack, Andy Archer, Jim Frodge
- Will complete report to NSF based on community recommendations

➤ Jeremy Rusin

- Specifically tasked by NSF to investigate NSF OPP
- Community survey
- Completed report to NSF

No Bridge?

- Summer of 2018, current Cyberinfrastructure grant will finish
- Annual SPAWAR contributions
 - Real-Time AWS relay
 - Antarctic Satellite Composites
 - Any other products SPAWAR desire
- What will change without a bridge?
 - No improvements in software and no new hardware
 - No more archiving of new datasets
 - Only archive products generated in Wisconsin
 - Nothing will be explicitly “turned off” until hardware/software failure

Disclaimer

- We are **not** here to get funded personally
- The issues presented here are of larger importance than any one person or project
- This is more about what the community wants/needs
- No bridge is **definitely** a possible outcome

Thank You!

Questions, Comments, Discussion

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