HAIC - HIWC SCIENCE MEETING



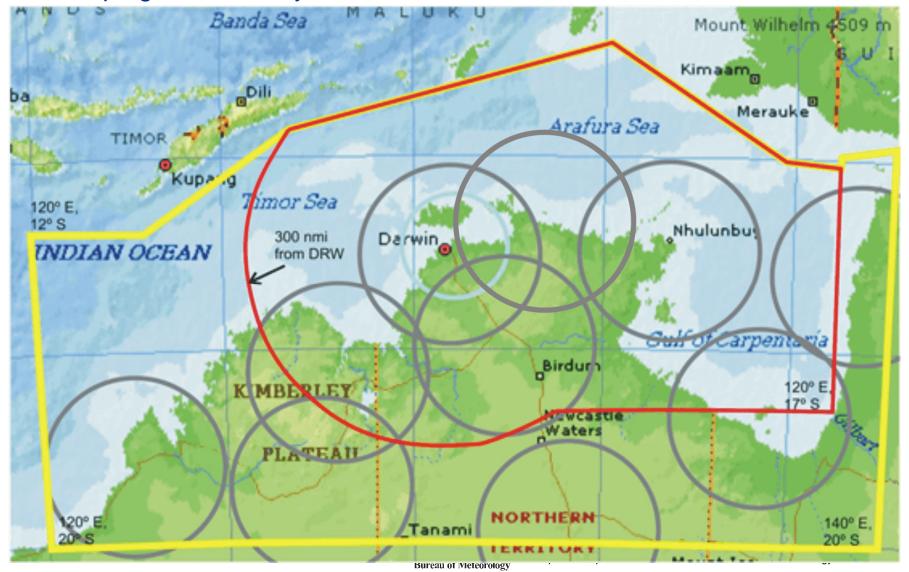
New York, USA 9-11 Mar 2015 R Potts





HIWC - HAIC Campaign - operations area

Campaign 15 January – 14 March 2014, based in Darwin, NT



HIWC - HAIC Field Campaign



Observations network

- Rapid scan MTSAT-1R satellite data
- BOM weather radar data
- ACCESS NWP data
- Lightning data gpats lightning network
- Work underway to establish thredds data server providing access to MTSAT-1R data, radar data, ACCESS NWP data
 - http://dap.nci.org.au/thredds/catalog.html

Rodney Potts (<u>r.potts@bom.gov.au</u>)





JMA – rapid-scan MTSAT-1R data

- JMA provided rapid-scan MTSAT-1R observation in the period 19 Dec 2013 – 18 Mar 2014 every 10 minutes/24 hrs.
- Area of coverage 6S 46S, 105E 165E
- Data format
 - Raw HRIT format can be viewed in McIDAS via ADDE server
 - netCDF format
- No scan daily at hh:50 every 2 hours navigation check
- No scan daily 16:30 17:00
- Subset of netCDF data made available to Atmosphere group for PLANET (visible channel and 1 x IR channel)
- Data archived by BoM

Rapid-Scan MTSAT – area of coverage 0720 UTC, 2 Mar 2014

Bureau of Meteorology

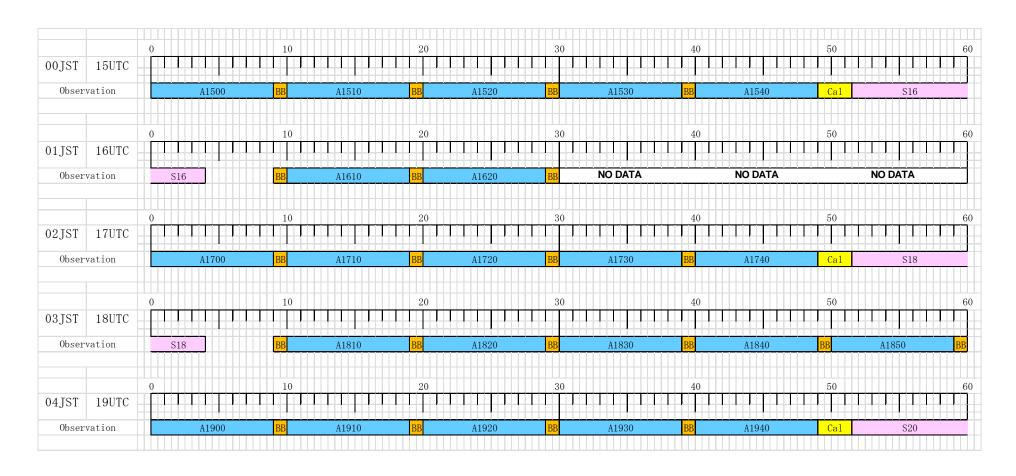
Meteorology

MTSAT 1R – rapid-scan schedule



MTSAT 1R - rapid-scan schedule









Radar data



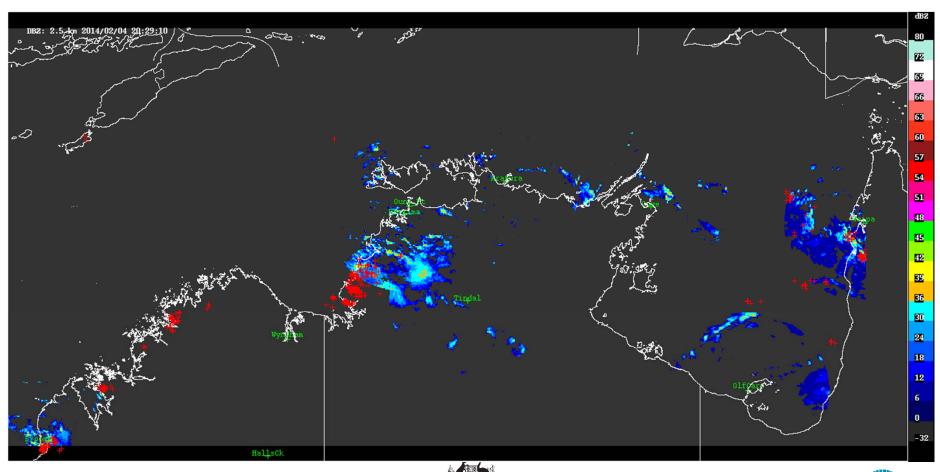
- Volumetric radar data Broome*, Berrimah, Gunn
 Pt (CPOL), Arafura, Tindal, Gove, Weipa, Gulf Carp
 - * Broome radar added 16 Jan 2014
- Wyndham radar low level scans only
- Raw data format rapic
- N_Aust merge merged radar data for above
 - Area -8 to -18 degS, 121 to 142 degE
 - Data format netCDF, mdv





Radar data







ACCESS model data



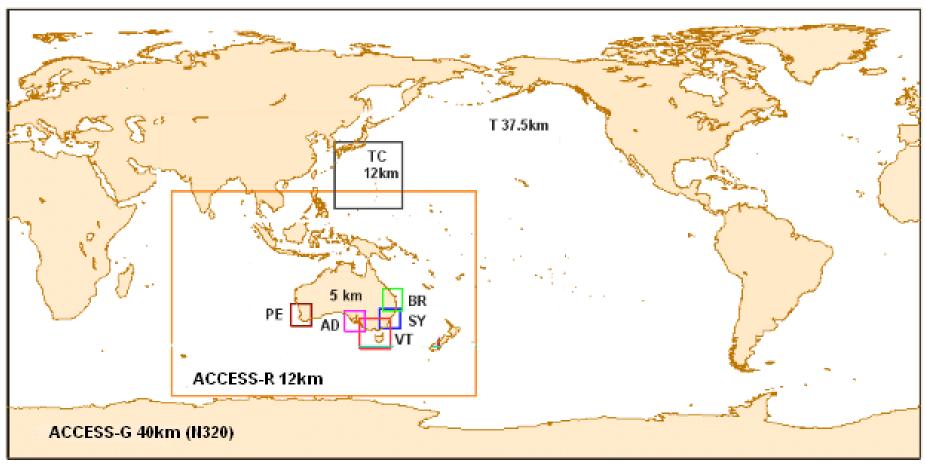
- Australian Community Climate Earth System Simulator (ACCESS)
 - Release Australian Parallel Suite 1 (APS1)
- ACCESS-R
 - http://www.bom.gov.au/australia/charts/bulletins/apob98.pdf
- ACCESS-C (ACCESS-DA)
 - http://www.bom.gov.au/australia/charts/bulletins/apob99.pdf
- Above models nested within global model with details at
- http://www.bom.gov.au/australia/charts/bulletins/apob93.pdf





ACCESS (APS-1) modelling suite











Thank you









