



Australian Government
Bureau of Meteorology

MAGDAS in Australia

Richard Marshall

IPS Radio and Space Services
Bureau of Meteorology



MAGDAS in Australia

Overview of BOM/IPS managed sites

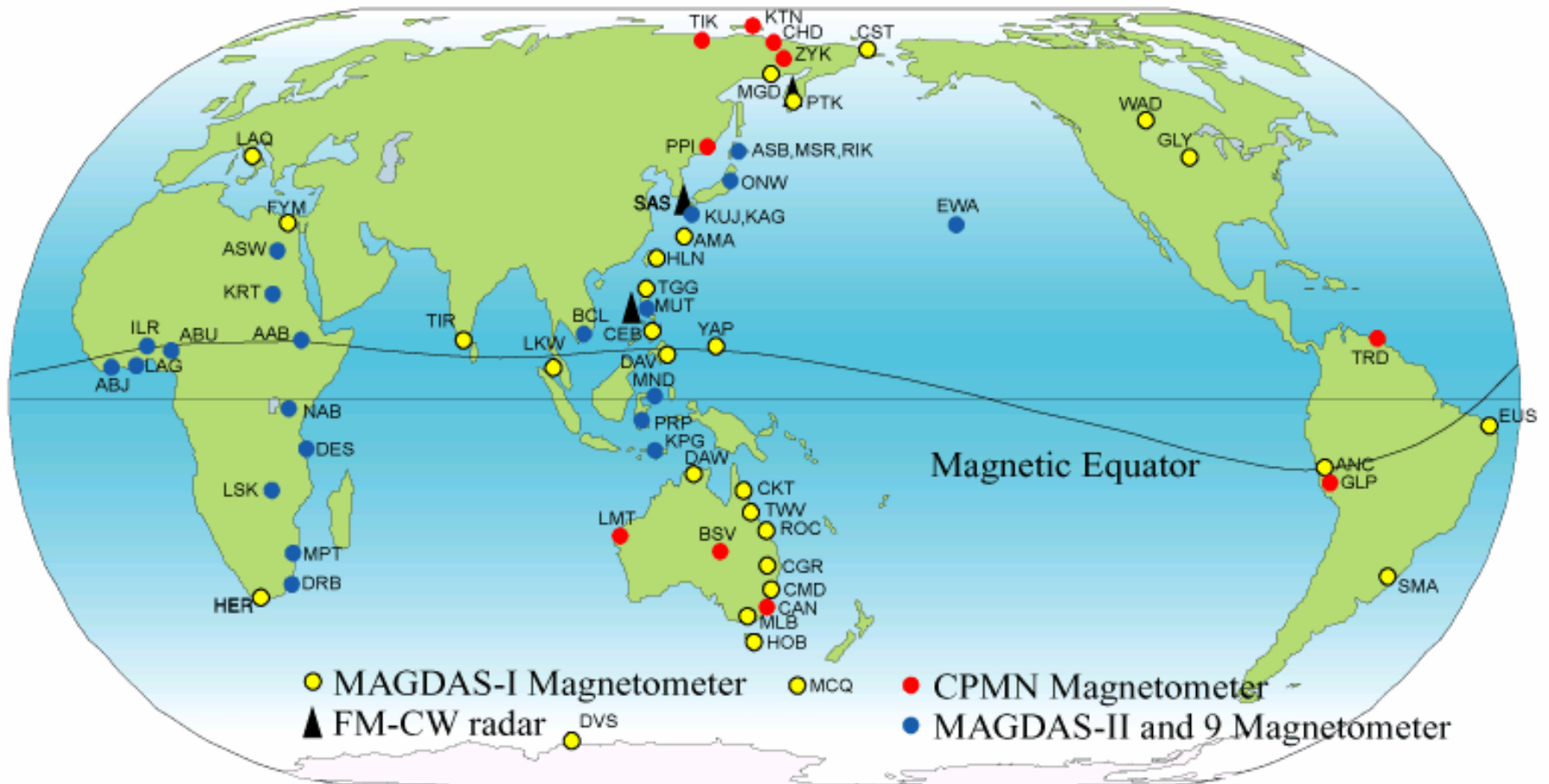
Transfer of MAGDAS data to SERC and IPS

Future BOM/IPS MAGDAS sites in Australia

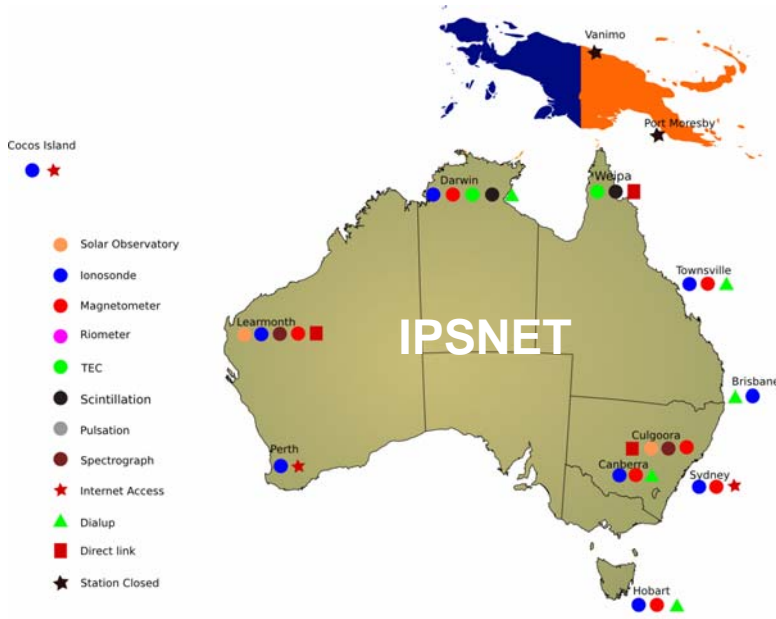
MAGDAS Global

MAGDAS/CPMN

(MAGnetic Data Acquisition System/Circum-pan Pacific Magnetometer Network)



BOM/IPS MAGDAS sites

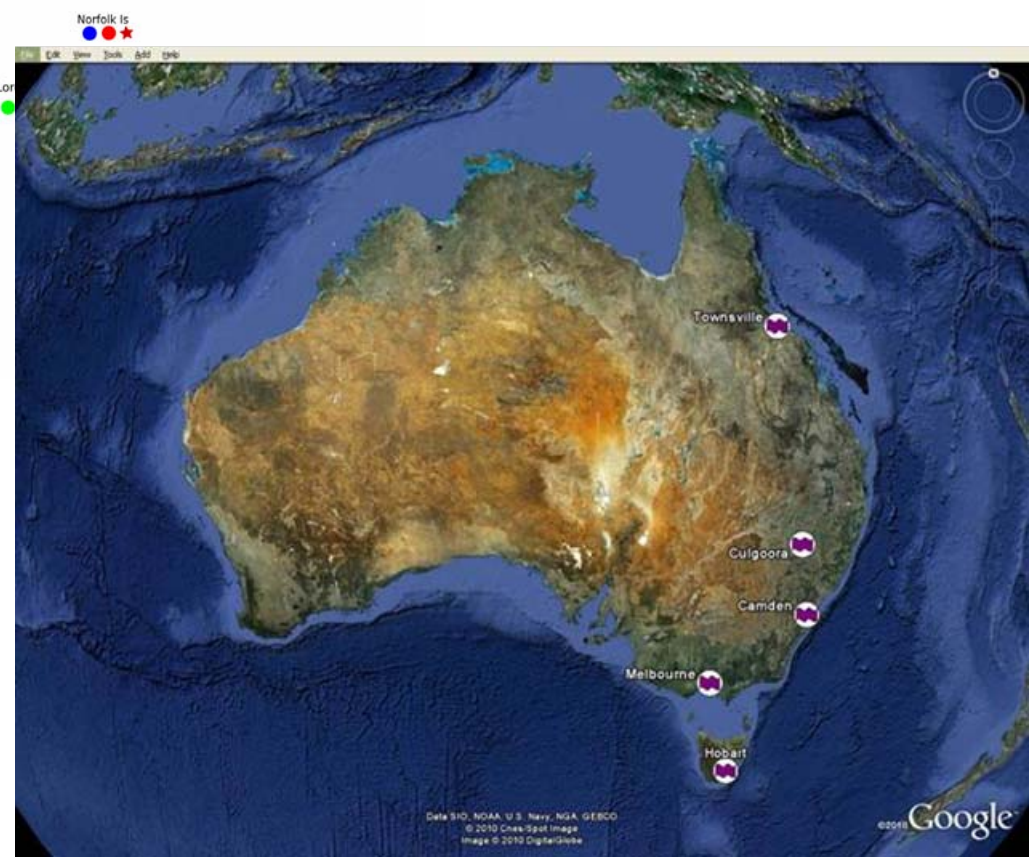


- Cocos Island
- Solar Observatory
- Ionosonde
- Magnetometer
- Riometer
- TEC
- Scintillation
- Pulsation
- Spectrograph
- Internet Access
- Dialup
- Direct link
- Station Closed

- Mawson
- Davis
- Casey

- Macquarie Island

- Niue Is



Hobart



Melbourne



Camden



Culgoora



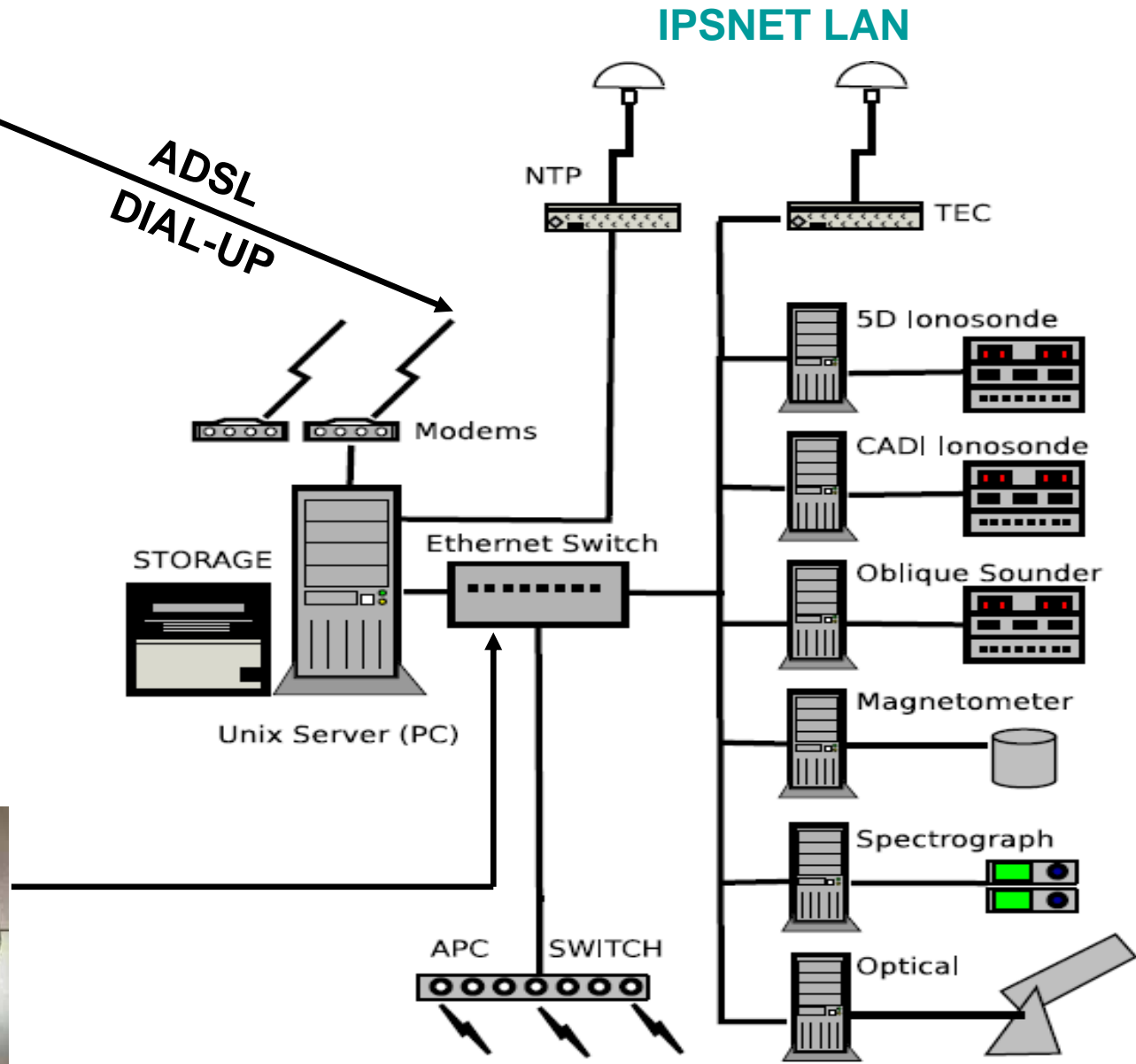
Townsville



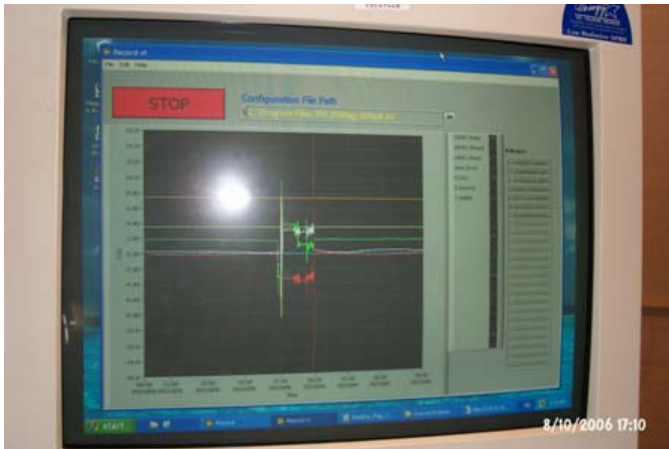
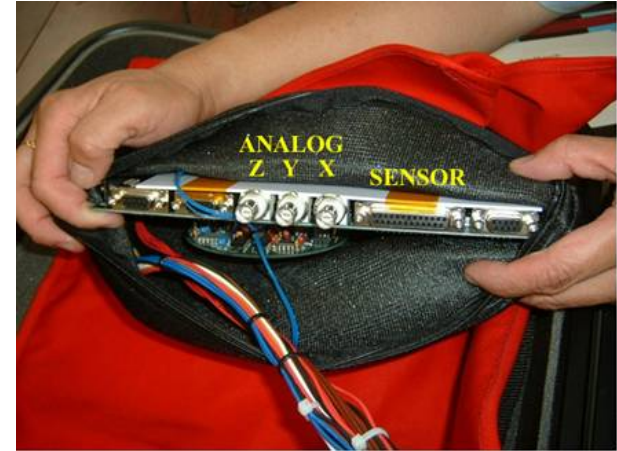
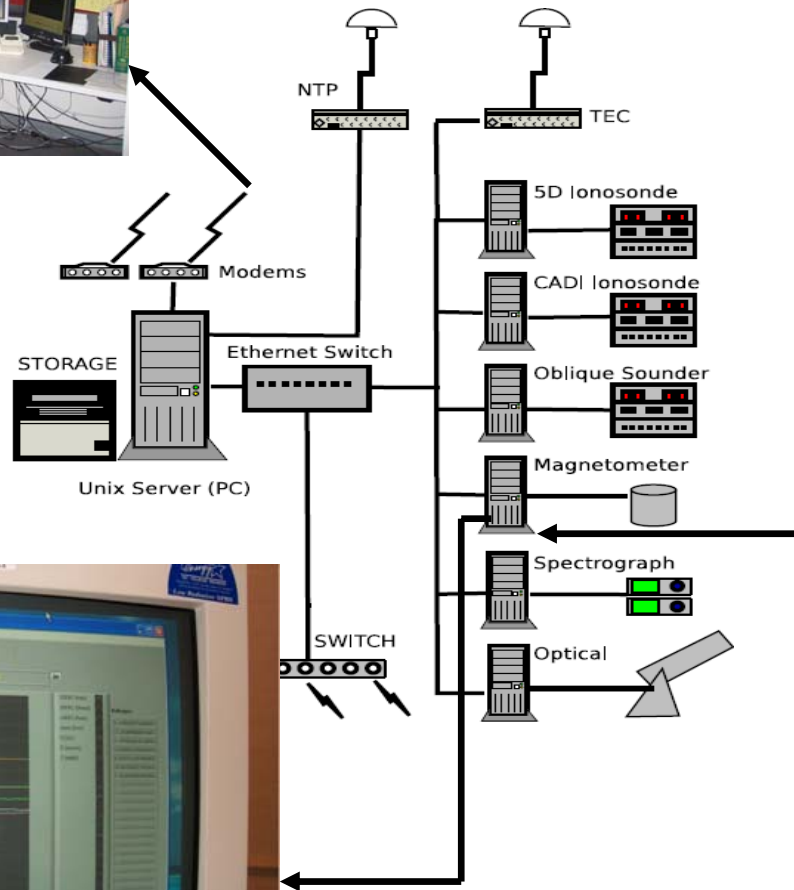
MAGDAS DATA → SERC



ADSL
DIAL-UP



MAGDAS DATA → IPS



MAGDAS DATA → SERC → IPS



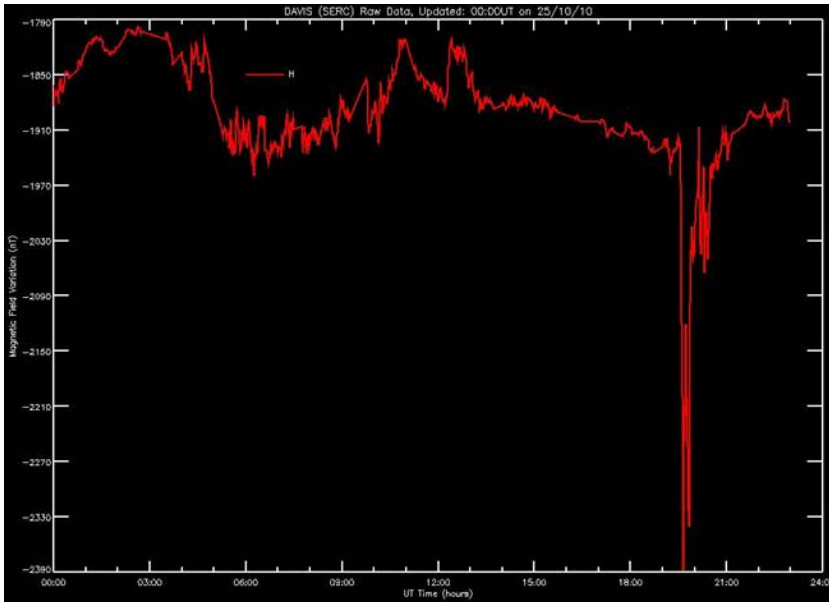
Real-time Data



FTP



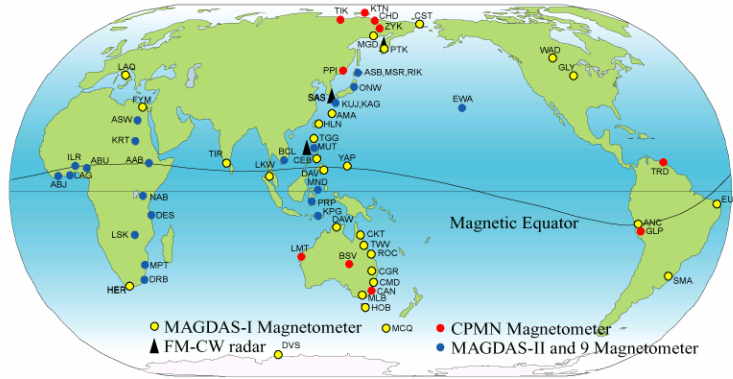
IPS Software



MAGDAS/IPS SERVICES

MAGDAS/CPMN

(MAGnetic Data Acquisition System/Circum-pan Pacific Magnetometer Network)



IPS Daily Report

2A. MAGNETIC SUMMARY

Geomagnetic field for Australian Region 04 Aug: Unsettled to Major Storm

Estimated Indices 04 Aug : A K

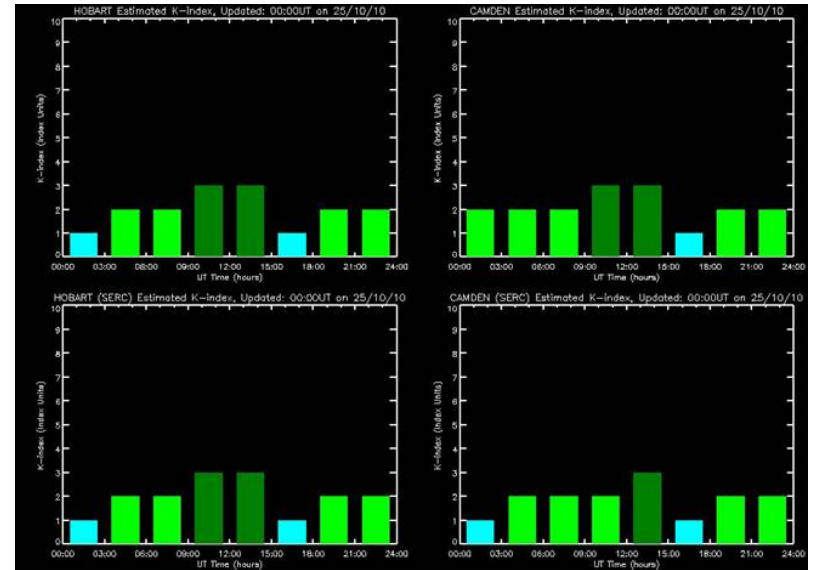
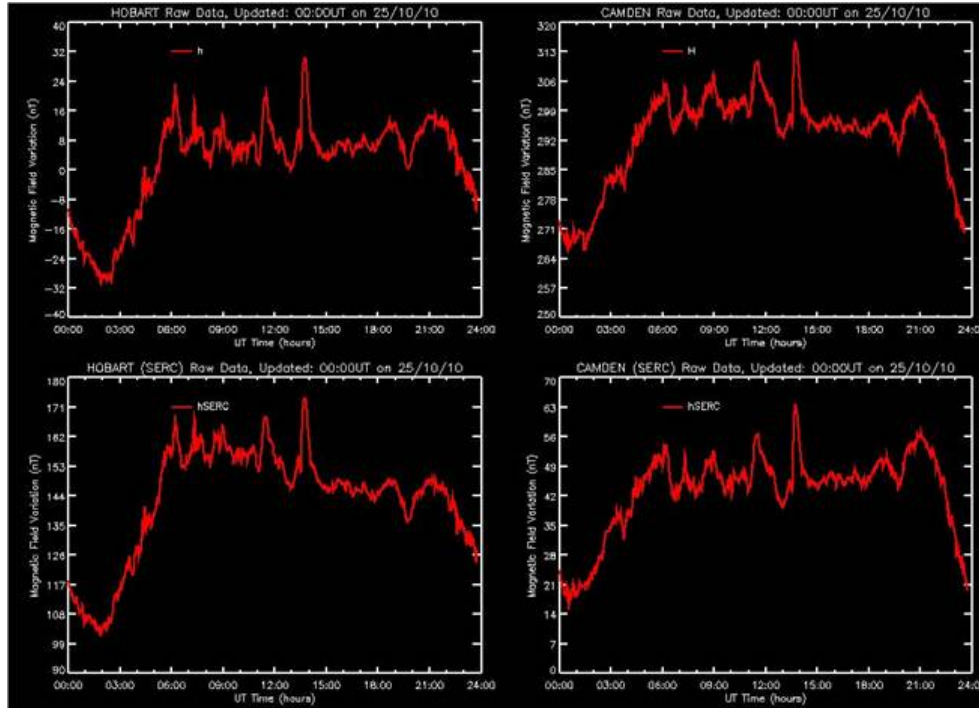
Australian Region	A	K
Darwin	29	43364443
Townsville	33	53364444
Leaxmonth	46	53375454
Canberra	29	43364443
Hobart	34	53354554
Casey (Ant)	33	54453454

Observed Regional daily pc3 Indices 04 Aug :

Darwin	23 (Quiet to unsettled)
Townsville	0 (Quiet)
Leaxmonth	0 (Quiet)
Alice Springs	0 (Quiet)
Gnangara	45 (Unsettled)
Canberra	22 (Quiet to unsettled)
Hobart	68 (Active)

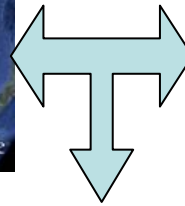
Pc3 pulsations are high frequency (10-45 second period) variations of the Earth's magnetic field. Daily pc3-indices are the daily sum of 20 minute pc3-indices for that station and have been shown to be well correlated with rejection of high resolution aeromagnetic survey flight-line data.

NOTE: Indices may have been generated from data obtained in cooperation with the following organisations: Geoscience Australia, University of Newcastle Space Physics Group, Australian Government Antarctic Division and Space Environment Research Center, Japan.



FUTURE MAGDAS

CPMN



**Non-IPS
MAGDAS**

