



Fig. 2 Clutter area maps for six BoM Operational Radar Networks

Operational Implementation of a Robust Near-real Time Radar Calibration and Monitoring Technique for BoM Operational Radars

for the Melbourne and Namoi radars.

Develop a robust radar calibration and monitoring technique for the Australian Bureau of Meteorology (BoM) radar networks that can address the radar calibration issue in near-real time for a better quality control of radar reflectivity.	Table 1 Description of the BoM radars that currently provide un-corrected and corrected reflectivities								
	ID	Name	Radar Type	ω (°)	r _{max} (km)	Δr (m)	N _θ	Time (min)	Height (m)
	02	Melbourne	Meteor1500(S)	1.0	225	250	14	06	42
	03	Wollongong	DWSR8502(S)	1.9	300	500	14	06	449
Un-corrected (ground clutter) and corrected reflectivities from the ground radar (GR)	40	Canberra	DWSR74(S)	1.9	300	500	14	06	1384
	48	Kalgoorlie	DWSR2502(C)	1.0	225	250	14	06	388
Measured reflectivity (V5) from the space-borne precipitation radar (Ku-band) onboard the Global Precipitation Measurement (GPM) satellite (SR)	54	Sydney	WF100-6(C)	1.9	225	250	14	06	64
	69	Namoi	DWSR8502(S)	1.9	300	500	14	10	699

We are working on an operational implementation of a hybrid RCA-GPM technique, which identifies stable periods

Warren et al. (In preparation): Calibration of ground-based radars using TRMM and GPM. Wolff, D.B., D.A. Marks, and W.A. Petersen, 2015: General Application of the Relative Calibration Adjustment (RCA) Technique for Monitoring and Correcting Radar Reflectivity Calibration. J. Atmos. Oceanic Technol., 32, 496–506.

