

**ARM Nauru Research Station**

**Site Visit 0401N Report**

Visit Duration: 05 January to 09 January

Nauru Island, Republic of Nauru

**SV 0401N**

**Site:** Nauru      **Proposed Dates on Site:** 05Jan to 09Jan  
**Team Members:**  
 Troy Culgan

Priority	System	Date Completed (dd/Month)	Service Time in Hours	Tasks/Description of Work/Process <small>For each priority item insert new line(row) for each date/time entry</small>
1	TRACKER			<b>Repair the tracker shading arm operation.</b>
		5-Jan		Overcast no assessment made.
		6-Jan		Overcast conditions persist.
		7-Jan		Overcast with showers
		8-Jan	2	Adjusted clock by 1 minute, this failed to resolve tracking error. Further investigation found clear cover over sun sensor was missing thus allowing water into the sun sensor no adjustment of sun sensor would correct tracking. Tracker reset to base line default and site parameters reentered with sun sensor inverted away from sun so that tracker is forced to use time tracking only. A quick check after the reset appeared that tracking was good and instruments shaded. Tracking was still good 2 hours later when checked, weather is again overcast observers will maintain checks during daily rounds.
2	WSI			<b>Replace the WSI AC unit</b>
		5-Jan	5	WSI AC unit replaced, discovered leak in coolant system, will investigate
		6-Jan	1	One coolant leak repaired but there must be more as the coolant level has dropped to below minimum during the day.
		7-Jan	2	Repaired all coolant leaks, flushed cooling system and refilled with coolant.WSI is operational correct coolant flow. The Dome appears slightly cloudy and made need replacing at a later date.I used the Prestone 5/150 coolant, there remains 2 full 1 Gal containers and 1 container 3/4 full.
		8-Jan	0.25	Replaced dessiccant cylinder
3	AERI			<b>Repair the AERI if parts arrive in time</b>
4	MMCR			<b>Repair MMCR</b>
		5-Jan	1	Replaced GPIB card, discovered TWTA will not turn on, will investigate
		6-Jan	2	MMCR would operate for short periods then halt with an error message displayed. System Error - Bus Driver SYS 3175. Kevin Widener informed awaiting reply.

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		7-Jan	2	Continued checks on MMCR would seem to indicate that a problem may still exist on the GPIB bus the MUX does indicate an error but every time the radar fails at the PC locks up.
5	TSI			Repair the TSI with the mentor/vendor.
		6-Jan	5	Investigations into TSI failure found that it would not boot , replaced 128MB Flashdrive. Require MAC address for imager to continue further (Imager serial number C042 installed on TSI107)
		7-Jan	5	Received MAC address for imager of TSI 107, this still did not work. Tried spare imager it to did not respond. All other fault finding failed to give a definitive result.