

# SV-0910N

## Final Report

<b>Site:</b> Nauru	<b>Dates on Site:</b> TBD
<b>Team Members:</b> TBD	<b>Required Items &amp; Other Actions:</b> <ul style="list-style-type: none"> <li>• Sky IRT from SGP</li> <li>• UPS twin socket outlet</li> <li>• replacement radiometers and instruments from SGP</li> <li>• handcarry T/RH probe handcarried from ManusSky IRT from SGP</li> <li>• No TBRG calibration kit on site. Send from Darwin.</li> <li>•</li> <li>• handcarry T/RH probe handcarried from Manus</li> </ul>
<b>Task Summary:</b> Calibration, instrument change out	<b>Safety:</b> <u>Major Hazards:</u> Caustic chemicals (KOH), Explosive gas (H2), AC electricity <u>Hazard Controls:</u> BOM Electrolyser Handbook, BM Electrolyzer Operations/Maintenance Training, ASNZS 4836/2001-Safe Working on LV Electrical Installations, 2-man rule <span style="color: red;">When replacing items (e.g., desiccant, filters, etc.), record and report the quantity of spares left on site.</span>

### SITE TASKS

High priority / usually non-routine

Low priority / usually routine

Completed

Priority	System	Date Completed (dd/Month)	Service Time (hours)	Tasks <small>For each priority item insert new line (row) for each date/time entry</small>
1	PSP (SKY)	13-Oct-09	1	Replace w/calibrated rad (and spare) and notify mentor Completed and mentor advised.
2	PIR #1 (SKY)			Replace w/calibrated rad (and spare) and notify mentor <span style="color: red;">PIRs not ready for change out in ARM</span>
3	PIR #2 (SKY)			Replace w/calibrated rad (and spare) and notify mentor <span style="color: red;">PIRs not ready for change out in ARM</span>
4	B/W	13-Oct-09	1	Replace w/calibrated rad (and spare) and notify mentor Completed and mentor advised.
5	NIP	13-Oct-09	1	Replace w/calibrated rad (and spare) and notify mentor Completed and mentor advised.
6	IRT (SKY)	16-Oct-09	1	Comparison with portable black body (Vaisala) Completed
7	PSP (GND)	13-Oct-09	1	Replace w/calibrated rad (and spare) and notify mentor Completed and mentor advised.
8	PIR (GND)			Replace w/calibrated rad (and spare) and notify mentor <span style="color: red;">PIRs not ready for change out in ARM</span>
9	IRT (GND)	16-Oct-09	1	Replace w/calibrated rad (and spare) and notify mentor Calibration check done
10	TRH (HMP45D)	15-Oct-09	6	1) Check installed sensor with Std T/RH probe 2) Replace sensor (and spare) w/ newly calibrated sensors 3) Check newly installed sensor again with Std T/RH probe 4) Send results to MR 5) Send replaced sensor (and spare) to vendor (Vaisala) for cal 6) Send Std T/RH probe to SGP for calibration Completed .
11	WND	15-Oct-09	3	Check bearings and wind speed readings with propellers taken off. Bypass or replace lightning protection with a new module. Completed Replacment module fitted.

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12	WND			1) Replace anemometers (and spare) with newly calibrated anemometers from Darwin 2) Send replaced anemometers to Darwin for calibration
		15-Oct-09	2	Completed TRH probe changed.
13	BAR			Compare with Std barometer
		15-Oct-09	1	Completed
14	ORG			Compare w/ ORG calibrator
		15-Oct-09	1	Completed
15	AWS TBRG (BOM)			BOM AWS TBRG calibrated by BOM
		17-Oct-09	1	Completed
16	BBSS GC25			1) Replace the temp sensor in installed GC25 with freshly calibrated sensor 2) Put removed 1-yr-old temp sensor in Spare GC25 3) Trash oldest temp sensor 4) order new sensor for next year
		13-Oct-09	1.5	Completed
17	IRT SKY			replace IRT (if not done by observers)
		16-Oct-09	1	Unit was replaced approx 2 months ago. Calibration check done.
18	SKYRD			replace UPS twin socket(Orange) outlet at SKYstand
			XXX	Unable to find the replacement socket
19	OTHER			Perform routine maintenance as per Maintenance Checklist
		24-Oct-09	34.5	Completed
20	COMMS			Replace CIMEL 98 with 168
		13-Oct-09	2	Completed
21	LOGGERS			Change Data Logger batteries
		13-Oct-09		Completed
22	ES&H			Check/ Fix Walkway roof timbers
			4	Survey and sourcing materials
23	LICOR			Replace laptop screen
		12-Oct-09	2	Completed
24	TSI			Check and Repair camera
		13-Oct-09	6	Completed. Replaced wiring loom in camera arm. Focus and alignment checked.
25	AWS			Replace RH probe cable
		16-Oct-09	6	Replaced cabling for AWS and SMET TBRG. Replaced cables for AWS Temp and RH sensors.
26	MFRSR			Replace communications cable
		16-Oct-09	2	Replaced communications cable and test comms from D van to instrument.
27	CIMEL			Update FTP transfer software.
		21-Oct-09	0.5	Completed. Asked mentors for feedback.
28	ORG			
		22-Oct-09	1	Input to logger changed to differential input and loggernet program updated.
29	MFRSR			
		22-Oct-09	5	Download manuals. Makes cables and check the IP settings on the new Devicemaster. Gateway was wrong.
30	Skyrad			
		23-Oct-09	3	Repair steps on the stand.

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31				
	Shipping			List items needed for future visits (spares, etc.)
				Radiometers for calibration
				Cimel 98 - Return for calibration.
	FUTURE NEEDS			List items needed for future visits (spares, etc.)
				Fuel can for mower fuel
				Laser warning signs for Ceilometer
				Danger signs for Diesel tanks
				Danger signs for Electrical transformer box.
				New electrical box for side of the transformer. (houses mains supply switch and meter)
				Sensor cell of Oxygen tester
				Replacement temp sensor for GC25