ARM Research Station
Site Visit 030NM Report

Visit Duration: 21 July to 1 August 2003

Papua New Guinea National Weather Service Momote Station, Manus Province
and
Denig District, Republic of Nauru

CONTENTS

A. Introduction
B. TWP Operations Management and Reset Visits
C. Tasks Performed
1. Train Nauru Observers on Automatic Weather Station Operation
2. Train Manus Observers on Automatic Weather Station Operation

Introduction

The main goals of the TWP Operations Site Visit 0307-TMN Visit to ARCS-1 at Momote Airport on Manus and ARCS-2 at Nauru were the following: 1) Train Nauru Observers on Automatic Weather Station Operations 2)Train Manus Observers on Automatic Weather Station Operations.

This report is organized according to the planned tasks or work units performed during the Site Visit. Within these work units the activities accomplished are arranged chronologically. Most of the information was put together by the Site Visit Team members based on the actual visit, daily reports.

A. TWP Operations Management and Site Visits

Site Visits are scheduled on approximately four-month intervals and are focused mainly on routine maintenance, instrument calibration, instrument replacement, and training. Sometimes non-routine visits are needed for technical tasks such as emergency repairs, retrofits, and/or the addition of new instruments. A formal audit-out is performed before departure.

The work on the Site Visit is performed by the Site Visit team, but often in close coordination with the local on-site Observers. The team holds a daily, morning tasking meeting at the site using the proposed Site Visit tasking schedule. After each day's work, the team meets to summarize work activities and an assigned team member writes a "Daily Report" and e-mails the report to TWP personnel in the U.S. Because of time-zone differences, necessary calls to instrument mentors in the U.S. are done in the morning.

Site Visit Members

- Ian Crane
- Rex Pearson
- Troy Culgan
- John Glowacki

B. Tasks Performed

1. Train Nauru Observers on Automatic Weather Station Operations

- Arrived Nauru on Monday 21st July and checked out equipment and found that Metconsole was not configured correctly. I reinstalled and configured the system to suit the observation program for that site. Also entered all default settings into the master configuration tables , so that in future if any interruptions occur the system will re- c install at the right settings. The metconsole is now performing correctly.
- I trained the five observers in the operation of the software and found that their level of competency at the end of the training was of a high standard. Full documentation explaining the system was carefully presented and they have system references to be able to get them out of any problems that may occur.
- Communication lines are open if any problems occur and further training can be applied using this channel.
- I also fully documented the sites and have entered all the information into our Australian SitesDb database.
- I also performed calibration on the AWS equipment and have entered results into SitesDb.
- Full skyline surveys were also completed at both stations.

2. Train Manus Observers on Automatic Weather Station Operations

- Arrived Manus on Sunday 27th July and repeated same procedure as Nauru. Again the observers took to the new system and are very proficient and the quality of the data is of a high standard.
- After returning to Darwin and over the last two months the data from the metconsole has been received into the database with no faults, which indicates the observers are using the software well.
- Communication lines are open if any problems occur and further training can be applied using this channel.
- I also fully documented the sites and have entered all the information into our Australian SitesDb database.
- I also performed calibration on the AWS equipment and have entered results into SitesDb.
- Full skyline surveys were also completed at both stations.