

ARCS PROCEDURE:  Author: J. Schmelzer	RSR DAILY MAINTENANCE OPERATING PROCEDURE	PRO(RSR)-001.003  June 22, 1998 Page 1 of 3
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## RSR Daily Maintenance Operating Procedure

### I. Purpose:

This document describes the required daily care and maintenance of the MFRSR conducted at the Tropical Western Pacific Site.

### II. Cautions and Hazards:

- When cleaning sensor head, do not bump the rotating arm.

### III. Requirements:

- Distilled water.
- Compressed air.

### IV. Procedure:

#### A. Steps:

1. Check sensor head for dirt or debris. If excessive dirt or debris is found, carefully spray sensor head (white piece on instrument) with distilled water; use only enough to wet and loosen any debris. (**Note:** If the sensor head is clean, it does not need to be sprayed with water.)
2. Hold the compressed air canister 20 cm away and spray air to remove any excess water on the detector.
3. Visually inspect that the MFRSR shadowband is still moving. The band should rotate and stop six degrees before top center, on top center, and six degrees after top center. It is best to check this during the morning or evening.
4. During daily rounds check MFRSR at solar noon. At this time, there should be no shadow present. (See **Figure 1**, North-South Solar Noon Alignment and **Figure 2**, Solar Noon Check.) (**Note:** There should be no shadow cast on either side of the motor assembly at Local Area Noon. Refer to the LAN chart provided for the Momote Site.)
5. Record the date, start-time, end-time, and any comments in the site operations log.

### V. References:

ARCS PROCEDURE:  Author: J. Schmelzer	RSR DAILY MAINTENANCE OPERATING PROCEDURE	PRO(RSR)-001.003  June 22, 1998 Page 2 of 3
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None.

**VI. Attachments:**

1. **Figure 1**, North-South Solar Noon Alignment.
2. **Figure 2**, Solar Noon Check.

<b>ARCS PROCEDURE:</b>  Author: J. Schmelzer	<b>RSR DAILY MAINTENANCE OPERATING PROCEDURE</b>	<b>PRO(RSR)-001.003</b>  June 22, 1998 Page 3 of 3
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