

ARCS PROCEDURE:	PIR DAILY OPERATING PROCEDURE	PRO(PIR)-003.002
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## PIR Daily Operating Procedure

### I. Purpose:

This document describes the required daily care and maintenance of Eppley PIR radiometers that must be conducted at the Tropical Western Pacific site.

### II. Cautions and Hazards:

- Use extreme care when cleaning the domes; excessive force scratches the domes and alters the calibration.
- Never touch the domes of the instrument with bare fingers.

### III. Requirements:

- Lint-free soft cloth.
- Distilled Water.

### IV. Procedure:

#### A. Steps:

1. Check dome for scratches, cracks, and/or breaks. If dome is okay, go to step 2. If dome is damaged, enter this fact in the site operations log and report the problem to Operations Central.

**Caution:** Use extreme care when cleaning the domes; excessive force will scratch the domes and alter calibrations.

2. Wet dome with distilled water; wipe outer dome with a clean, lint-free, soft cloth. One or two wipes should suffice; if this worked, go to step 4.
3. Check desiccant, crystals; if the desiccant is blue and/or clear, go to the next step. If the desiccant is pink, see the "PIR Radiometer Desiccant Replacement Procedure," document number **PRO(PIR)-002**.

**Note:** The desiccant is located on the side of the ventilator and is viewed through a small viewing hole about 1 cm in diameter. See **Figure 1**, Eppley PIR Side View.

4. Enter the date, start-time, end-time, comments of the daily maintenance in the Site Operations Log. Was a desiccant change performed?

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## V. References:

1. "Instrumentation for the Measurement of the Components of Solar and Terrestrial Radiation," Eppley vendor manual.
2. "Manual Translation of Eppley, NIP, PIR, PSP and Ventilator" translated by S. Sandberg.
3. "Solar and Infrared Observation Station (SIROS) System Manual" drafted by S. Sandberg.

## VI. Attachments:

1. **Figure 1**, Eppley PIR Side View.