



# THE EPPLEY LABORATORY, INC.

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## Calibration Certificate

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**Instrument:** Precision Infrared Radiometer, Model PIR, Serial Number 38137F3

**Procedure:** This pyrgeometer was compared against Eppley's Blackbody Calibration System under radiation intensities of approximately  $350 \text{ Wm}^{-2}$  with an average ambient temperature of  $22^{\circ}\text{C}$  according to procedures described in Technical Procedure, TP05 of The Eppley Laboratory, Inc.'s Quality Assurance Manual on Calibrations.

**Transfer Standard:** Eppley Precision Infrared Radiometer, Model PIR, Serial Number 32227F3

**Results:**

**Sensitivity:**  $S = 2.64 \mu\text{V} / \text{Wm}^{-2}$

**Uncertainty:**  $U_{95} = \pm 1.7\%$  (95% confidence level,  $k=2$ )

**Resistance:**  $669 \Omega$  at  $23^{\circ}\text{C}$

**Date of Test:** February 21, 2018

**Traceability:** This calibration is traceable to the International Practical Temperature Scale (IPTS). Additionally, transfer standard PIR #32227F3 provides traceability to the World Infrared Standard Group (WISG) of pyrgeometers housed at the Infrared Radiometry Section of the World Radiation Centre (WRC-IRS). Unless otherwise stated in the remarks section below or on the Sales Order, the results of this calibration are "AS FOUND / AS LEFT".

**Due Date:** Eppley recommends a minimum calibration cycle of five (5) years but encourages annual calibrations for highest measurement accuracy.

**Customer:** WHOI  
Woods Hole, MA

**Signatures:**

*Dulra L. Gentry*  
In Charge of Test:

*Thomas J. Kuhl*  
Reviewed by:

**Eppley SO:** 65154

**Date of Certificate** February 22, 2018

**Remarks:**