## Calibration Record of the Eppley NIP # 13170E6 Pyrheliometer

This page shows the calibration history of the NIP 13170E6. The responsivity used to transform the irradiance voltage data into Wm<sup>-2</sup> is a running average of the responsivity obtained over the years. This reduces the variation of the responsivities associated with the calibration random uncertainties (See Figs. 1 and 2). The responsivity values used are in the comprehensive format file or the site files. The responsivity measured during specific calibrations are listed in Table 1.

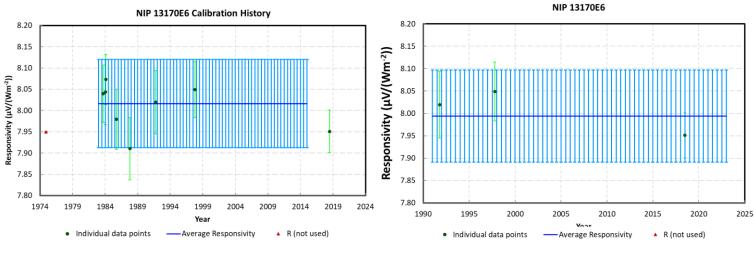


Figure 1: All calibration data plotted against time with long-term trend

## Information provided in the Table 1 are:

- Date of calibration
- Responsivity value
- Uncertainty at the 95% level of confidence
- Average SZA over which the calibration value was obtained
- Average temperature during the calibration
- Type of calibration and instruments used
- Location of calibration
- Notes

## Table 1: Calibration History for NIP 13170E6 (N1)

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	Calibration	Responsivity	Uncertainty	Average	Temperature	<b>Reference Instruments</b>	Location	Notes
	Date	$(\mu V/Wm^{-2})$	$(\mu V/Wm^{-2})$	SZA (°)	( <b>C</b> )			
1	1974/12/05	7.9500		-	1.00	-	Factory	ABS
								scale
2	1983/09/06	8.0394	0.0675	-	20.00	NIP_18948E6 R=8.1318	Eugene, OR	
3	1984/01/14	8.0434	0.0770	-	2.00	NIP_17668E6 R=8.719	Eugene, OR	
4	1984/02/04	8.0732	0.0593	-	7.50	NIP_17668E6 R=8.719	Eugene, OR	

Figure 2: Calibrations from the most recent record

5	1985/09/24	7.9795	0.0706	-	20.00	NIP_21149E6 R=8.392	Eugene, OR	
6	1987/10/19	7.9103	0.0736	-	17.50	NIP_18948E6 R=8.1318	Eugene, OR	
7	1991/10/15	8.0196	0.0746	-	14.50	NIP_18948E6 R=8.1318	Eugene, OR	
8	1997/10/13	8.0489	0.0658	-	16.60	NIP_18948E6 R=8.1318	Eugene, OR	
9	1905/07/10	7.9509	0.0500	45.13	28.10	ACR R=1.0002	Eugene, OR	