

Calibration Record of the Eppley NIP # 115537E6 Pyrheliometer

This page shows the calibration history of the NIP 15537E6. The responsivity used to transform the irradiance voltage data into Wm^{-2} 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 Fig. 1). 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.

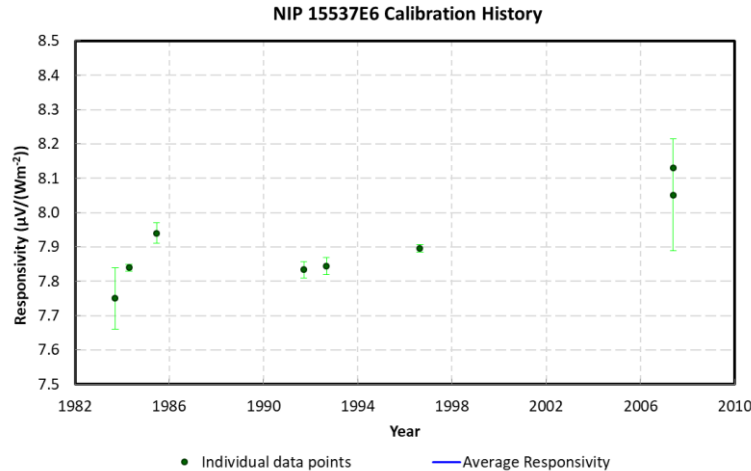


Figure 1: All calibration data plotted against time with long-term trend

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 15537E6 (N6)

	Calibration Date	Responsivity ($\mu V/Wm^2$)	Uncertainty ($\mu V/Wm^2$)	Average SZA ($^\circ$)	Temperature (C)	Reference Instruments	Location	Notes
1	1977/04/09	8.1600			-2.00	Factory	Factory	
2	1982/09/16	7.9100	0.0200			NIP 17666E6	Vancouver, WA	
3	1983/08/24	7.9600			22.00	Factory	Factory	
4	1983/09/13	7.7500	0.0900			NIP 13170E6 R=7.95	Eugene, OR	
5	1984/04/14	7.8400	0.0100		19.00	NIP 13170E6	Eugene, OR	

6	1984/06/15	7.8800			21.00	Factory	Factory	
7	1985/06/18	7.9400	0.0300		18.00	NIP 13170E6 R=7.95	Eugene, OR	
8	1987/05/08	7.8530	0.0060			NIP 21149E6 R=8.41	Eugene, OR	
9	1991/09/18	7.8340	0.0240			NIP 21149E6 R=8.35	Eugene, OR	
10	1992/09/01	7.8440	0.0250			NIP 18948E6	Eugene, OR	
11	1996/08/20	7.8960	0.0110		27.00	NIP 18948E6 R=7.896	Eugene, OR	
12	2007/05/22	8.1300			21.00	NIP 23928E6 R=8.33	Eugene, OR	
13	2007/05/22	8.0519	0.1623	45.06	18.26	NIP 23928E6 R=8.26	Eugene, OR	