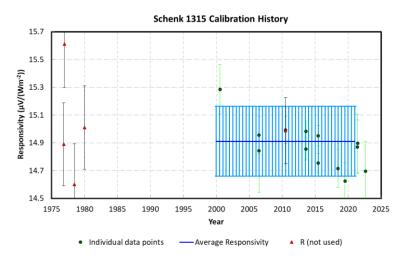
Calibration Record of Schenk 1315 Pyranometer

This page shows the calibration history of the Schenk 1315. 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 random uncertainty of a given calibration (See Figs. 1 & 2). The rate of change of the pyranometer responsivity is related to exposure to UV radiation. The responsivity values used are in the comprehensive format files or the site files. The responsivities measured during specific calibrations are listed in Table 1.



Schenk 1315 15.2 15.1 Responsivity (µV/(Wm-2)) 15 14.9 14.8 14.7 14.6 14.5 14.4 2014 2016 2018 2020 2022 2024 2012 Year Individual data points ——Average Responsivity

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

Figure 2: Calibration data plotted against time for 10 year 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 Schenk 1315

	Calibration Date	Responsivity (μV/Wm ⁻²)	Uncertainty (μV/Wm ⁻²)	Average SZA (°)	-	Reference Instruments	Location	Notes
1	1976/11/02	14.8900	0.2978	-	-	factory	Factory	
2	1976/12/13	15.6100	0.3122	-	-		Eugene, OR	Questionable
3	1978/06/15	14.6000	0.2920	-	30.18		Whitehorse Ranch, OR	

4	1980/01/01	15.0100	0.3002	-			Whitehorse	
5	2000/02/29	15.2857	0.1762	44.98	26.71	NIP_18948E6	Ranch, OR Eugene, OR	
٦	2000/02/29	13.2037	0.1702	44.30	20.71	R=8.1358,	Eugene, OK	
						PSP_18560F3		
						R=8.5134		
6	2006/06/24	14.8420	0.2968	-		NIP_18948E6	Eugene, OR	
						R=8.1358,		
						PSP_17518F3		
						R=7.76230		
7	2006/02/21	14.9553	0.1351	44.89	30.78	NIP_18948E6	Eugene, OR	
						R=8.1358,		
						PSP_17518F3 R=7.76230		
8	2010/02/25	14.9873	0.2400	_	22.00	ACR,	Eugene, OR	with thermal
٥	2010/02/23	14.90/3	0.2400	-	22.00	PSP 17518F3	Eugene, OK	offset
						R=7.75230?		Onset
9	2010/02/25	14.9918	0.0980	44.42	24.00	ACR,	Eugene, OR	
	,					Schenk_1315		
						R=14.89 (?)		
10	2013/03/06	14.8556	0.0793	44.84	31.10	ACR,	Eugene, OR	
						CMP22_110265 R		
						= 8.87		
11	2013/03/06	14.9827	0.0742	45.09	23.77	ACR,	Eugene, OR	
						CMP22_110265 R		
						= 8.87		
12	2015/02/16	14.9512	0.0741	44.73	21.63	ACR,	Eugene, OR	
						CMP22_120363		
12	2015/02/16	14.7526	0.0685	47.02	20.72	R=9.68217	Fugana OD	
13	2015/02/16	14./536	0.0685	47.02	30.72	ACR, CMP22_120363	Eugene, OR	
						R=9.68217		
14	2018/02/20	14.7159	0.1371	45.59	24.40	ACR R=1.0002,	Eugene, OR	
		255	1 3.137 1	13.33		CMP22_110265	-5,00110, 011	
						R=8.9179		
15	2019/02/25	14.6242	0.1322	44.85	26.63	ACR R=1.00034,	Eugene, OR	
						CMP22_110263		
						R=9.6981		
16	2021/02/14	14.8708	0.1945	44.93	27.10	ACR R=1.00038,	Eugene, OR	
						CMP22_110263		
						R=9.7005		

17	2021/02/15	14.8967	0.2100	45.10	25.46	ACR R=1.00038,	Eugene, OR	
						CMP22_110263		
						R=9.7005		
18	2022/03/07	14.6963	0.2109	44.89		ACR R=1.00038,	Eugene, OR	
						CMP22_110265		
						R=8.9202		