

# CG4 and PIR correction factors

We did not have the opportunity to calibrate the pyrgeometers prior to the start of PCAPS, and therefore used old thermopile calibration factors for the Kipp & Zonen CG4 and Eppley PIR pyrgeometers. These were subsequently recalibrated in the NOAA black body on March 8 & 10, 2011. The following table lists multiplicative correction factors for Rpile outputs during the PCAPS field program.

Sensor	Location	Position	Pre-ops	Post-ops	Correction	k*
			uV-m <sup>2</sup> /W	uV-m <sup>2</sup> /W	pre/post	
PIR 031980	Playa (1)	in	3.58	3.58	1.000	4.0
PIR 031976	Playa	out	3.93	3.74	1.051	3.5
PIR 031975	ABC (2)	in	3.97	3.98	0.997	3.5
PIR 031978	ABC	out	3.50	3.53	0.992	4.0
CG4 050824	Highland (3)	in	14.09	13.81	1.020	NA
CG4 040740	Highland	out	7.85	7.76	1.012	NA
CG4 030675	West Valley (4)	in	9.97	9.93	1.004	NA
CG4 040741	West Valley	out	8.82	8.76	1.007	NA
PIR 031979	East Slope (5)	in	3.99	3.81	1.047	4.5
PIR 031981	East Slope	out	3.69	3.66	1.008	3.5
CG4 100225	West Slope (6)	in	11.93	11.28	1.058	NA
CG4 100226	West Slope	out	11.51	10.81	1.065	NA
CG4 050823	Riverton (7)	in	9.32	9.21	1.012	NA
CG4 030676	Riverton	out	11.27	11.21	1.005	NA

\*per Ellsworth Dutton, blackbody values for k have been increased by 0.3 and then rounded up to nearest 0.5