

Table 1. Color Corrections K for HAWC+ Filters^a

	53 μm	63 μm	89 μm	155 μm	216 μm
$\alpha = -4$	1.004	1.003	1.004	1.005	1.005
$\alpha = -3$	1.000	1.000	1.000	1.000	1.000
$\alpha = -2$	1.000	1.000	1.000	1.000	1.000
$\alpha = -1$	1.004	1.003	1.004	1.005	1.005
$\alpha = 0$	1.011	1.008	1.011	1.016	1.015
$\alpha = 1$	1.021	1.016	1.023	1.031	1.031
$\alpha = 2$	1.035	1.027	1.038	1.053	1.052
$\alpha = 3$	1.053	1.041	1.057	1.080	1.079
$T = 10000$ K	1.035	1.027	1.038	1.053	1.052
$T = 5000$ K	1.035	1.027	1.037	1.052	1.052
$T = 3000$ K	1.035	1.027	1.037	1.052	1.052
$T = 1000$ K	1.033	1.026	1.036	1.051	1.051
$T = 750$ K	1.032	1.025	1.036	1.051	1.051
$T = 500$ K	1.030	1.024	1.034	1.050	1.050
$T = 300$ K	1.026	1.022	1.032	1.048	1.049
$T = 200$ K	1.022	1.019	1.029	1.046	1.047
$T = 150$ K	1.017	1.015	1.026	1.044	1.046
$T = 100$ K	1.007	1.009	1.020	1.039	1.042
$T = 70$ K	0.998	1.002	1.012	1.033	1.038
$T = 50$ K	0.990	0.995	1.003	1.024	1.032
$T = 30$ K	1.004	0.995	0.990	1.006	1.018

^aThe factor K converts an input flux density to that of a nominal ‘flat spectrum’ source at the mean wavelength of the filter. The input spectral shape is described by a power law ($F_\nu \propto \nu^\alpha$) or a blackbody with a temperature T .

Table 2. Isophotal Wavelengths for HAWC+ Filters

	53 μm	63 μm	89 μm	155 μm	216 μm
$\alpha = -4$	53.656	63.342	89.478	156.897	217.528
$\alpha = -3$	53.560	63.253	89.305	156.480	216.969
$\alpha = -2$	53.467	63.166	89.137	156.073	216.416
$\alpha = -1$	53.373	63.079	88.969	155.665	215.864
$\alpha = 0$	53.280	62.995	88.805	155.266	215.318
$\alpha = 1$	53.189	62.912	88.643	154.872	214.777
$\alpha = 2$	53.098	62.830	88.484	154.483	214.241
$\alpha = 3$	53.008	62.750	88.326	154.097	213.713
$T = 10000$ K	53.099	62.831	88.485	154.485	214.244
$T = 5000$ K	53.100	62.832	88.487	154.487	214.246
$T = 3000$ K	53.103	62.834	88.489	154.490	214.249
$T = 1000$ K	53.114	62.842	88.500	154.506	214.264
$T = 750$ K	53.120	62.846	88.506	154.513	214.272
$T = 500$ K	53.132	62.856	88.518	154.530	214.287
$T = 300$ K	53.160	62.875	88.544	154.563	214.320
$T = 200$ K	53.200	62.904	88.580	154.608	214.362
$T = 150$ K	53.248	62.937	88.619	154.655	214.406
$T = 100$ K	53.372	63.019	88.711	154.759	214.501
$T = 70$ K	53.676	63.179	88.861	154.912	214.635
$T = 50$ K	...	64.014	89.154	155.153	214.839
$T = 30$ K	155.972	215.441

Table 3. Wavelengths for HAWC+ Filters

	53 μm	63 μm	89 μm	155 μm	216 μm
Mean λ	53.560	63.253	89.305	156.480	216.969
Pivot λ	53.280	62.995	88.805	155.266	215.318
Prime λ	53.373	63.079	88.969	155.665	215.864