

1 METEOSAT-5

- [IR1 Channel](#)
- [WV2 Channel](#)

1.1 IR1 Temperature/Radiance Conversion Table

Planck Function weighted with Filter Function (90 K) for the Meteosat-5 IR1 channel.
 Temperature in K, radiance in $W\ m^{-2}\ sr^{-1}$

Temp	Rad	Temp	Rad	Temp	Rad	Temp	Rad	Temp	Rad
170.0	0.478	171.0	0.499	172.0	0.521	173.0	0.543	174.0	0.567
175.0	0.590	176.0	0.615	177.0	0.640	178.0	0.667	179.0	0.693
180.0	0.721	181.0	0.750	182.0	0.779	183.0	0.809	184.0	0.840
185.0	0.871	186.0	0.904	187.0	0.937	188.0	0.971	189.0	1.006
190.0	1.042	191.0	1.079	192.0	1.117	193.0	1.156	194.0	1.195
195.0	1.236	196.0	1.277	197.0	1.320	198.0	1.363	199.0	1.408
200.0	1.453	201.0	1.499	202.0	1.547	203.0	1.595	204.0	1.645
205.0	1.695	206.0	1.747	207.0	1.799	208.0	1.853	209.0	1.907
210.0	1.963	211.0	2.020	212.0	2.078	213.0	2.137	214.0	2.197
215.0	2.258	216.0	2.321	217.0	2.384	218.0	2.449	219.0	2.515
220.0	2.582	221.0	2.650	222.0	2.719	223.0	2.790	224.0	2.862
225.0	2.934	226.0	3.008	227.0	3.084	228.0	3.160	229.0	3.238
230.0	3.317	231.0	3.397	232.0	3.478	233.0	3.561	234.0	3.645
235.0	3.730	236.0	3.816	237.0	3.904	238.0	3.993	239.0	4.083
240.0	4.175	241.0	4.267	242.0	4.361	243.0	4.457	244.0	4.553
245.0	4.651	246.0	4.750	247.0	4.851	248.0	4.953	249.0	5.056
250.0	5.160	251.0	5.266	252.0	5.373	253.0	5.481	254.0	5.591
255.0	5.702	256.0	5.814	257.0	5.928	258.0	6.043	259.0	6.160
260.0	6.277	261.0	6.396	262.0	6.517	263.0	6.639	264.0	6.762
265.0	6.886	266.0	7.012	267.0	7.139	268.0	7.268	269.0	7.398
270.0	7.529	271.0	7.662	272.0	7.796	273.0	7.931	274.0	8.068
275.0	8.206	276.0	8.345	277.0	8.486	278.0	8.628	279.0	8.772
280.0	8.917	281.0	9.063	282.0	9.211	283.0	9.360	284.0	9.510
285.0	9.662	286.0	9.815	287.0	9.970	288.0	10.126	289.0	10.283
290.0	10.441	291.0	10.601	292.0	10.763	293.0	10.926	294.0	11.090
295.0	11.255	296.0	11.422	297.0	11.590	298.0	11.760	299.0	11.931
300.0	12.103	301.0	12.277	302.0	12.452	303.0	12.628	304.0	12.806
305.0	12.985	306.0	13.165	307.0	13.347	308.0	13.530	309.0	13.715
310.0	13.900	311.0	14.088	312.0	14.276	313.0	14.466	314.0	14.657
315.0	14.850	316.0	15.044	317.0	15.239	318.0	15.435	319.0	15.633
320.0	15.832	321.0	16.033	322.0	16.235	323.0	16.438	324.0	16.643

325.0	16.848	326.0	17.056	327.0	17.264	328.0	17.474	329.0	17.685
330.0	17.897	331.0	18.111	332.0	18.326	333.0	18.542	334.0	18.760
335.0	18.979	336.0	19.199	337.0	19.420	338.0	19.643	339.0	19.867
340.0	20.093	341.0	20.319	342.0	20.547	343.0	20.776	344.0	21.007
345.0	21.238	346.0	21.471	347.0	21.705	348.0	21.941	349.0	22.178
350.0	22.416	351.0	22.655	352.0	22.895	353.0	23.137	354.0	23.380
355.0	23.624	356.0	23.870	357.0	24.116	358.0	24.364	359.0	24.613
360.0	24.864	361.0	25.115	362.0	25.368	363.0	25.622	364.0	25.877
365.0	26.133	366.0	26.391	367.0	26.650	368.0	26.910	369.0	27.171

1.2 WV2 Temperature/Radiance Conversion Table

Planck Function weighted with Filter Function (90 K) for the Meteosat-5 WV2 channel.
 Temperature in K, radiance in $W\ m^{-2}\ sr^{-1}$

Temp	Rad	Temp	Rad	Temp	Rad	Temp	Rad	Temp	Rad
170.0	0.017	171.0	0.018	172.0	0.020	173.0	0.021	174.0	0.023
175.0	0.025	176.0	0.026	177.0	0.028	178.0	0.030	179.0	0.033
180.0	0.035	181.0	0.038	182.0	0.040	183.0	0.043	184.0	0.046
185.0	0.049	186.0	0.052	187.0	0.056	188.0	0.060	189.0	0.063
190.0	0.068	191.0	0.072	192.0	0.076	193.0	0.081	194.0	0.086
195.0	0.092	196.0	0.097	197.0	0.103	198.0	0.109	199.0	0.116
200.0	0.122	201.0	0.129	202.0	0.137	203.0	0.144	204.0	0.153
205.0	0.161	206.0	0.170	207.0	0.179	208.0	0.189	209.0	0.199
210.0	0.209	211.0	0.220	212.0	0.232	213.0	0.243	214.0	0.256
215.0	0.269	216.0	0.282	217.0	0.296	218.0	0.311	219.0	0.326
220.0	0.341	221.0	0.358	222.0	0.374	223.0	0.392	224.0	0.410
225.0	0.429	226.0	0.449	227.0	0.469	228.0	0.490	229.0	0.511
230.0	0.534	231.0	0.557	232.0	0.581	233.0	0.606	234.0	0.632
235.0	0.658	236.0	0.686	237.0	0.714	238.0	0.744	239.0	0.774
240.0	0.805	241.0	0.837	242.0	0.871	243.0	0.905	244.0	0.940
245.0	0.977	246.0	1.014	247.0	1.053	248.0	1.092	249.0	1.133
250.0	1.176	251.0	1.219	252.0	1.264	253.0	1.309	254.0	1.357
255.0	1.405	256.0	1.455	257.0	1.506	258.0	1.559	259.0	1.612
260.0	1.668	261.0	1.725	262.0	1.783	263.0	1.843	264.0	1.904
265.0	1.967	266.0	2.032	267.0	2.098	268.0	2.166	269.0	2.236
270.0	2.307	271.0	2.380	272.0	2.454	273.0	2.531	274.0	2.609
275.0	2.689	276.0	2.771	277.0	2.855	278.0	2.941	279.0	3.029
280.0	3.118	281.0	3.210	282.0	3.304	283.0	3.400	284.0	3.498
285.0	3.598	286.0	3.700	287.0	3.804	288.0	3.911	289.0	4.019
290.0	4.130	291.0	4.244	292.0	4.359	293.0	4.477	294.0	4.597
295.0	4.720	296.0	4.845	297.0	4.973	298.0	5.103	299.0	5.235
300.0	5.370	301.0	5.508	302.0	5.648	303.0	5.791	304.0	5.937

305.0	6.085	306.0	6.236	307.0	6.389	308.0	6.546	309.0	6.705
310.0	6.867	311.0	7.032	312.0	7.200	313.0	7.370	314.0	7.544
315.0	7.721	316.0	7.900	317.0	8.083	318.0	8.268	319.0	8.457
320.0	8.649	321.0	8.844	322.0	9.042	323.0	9.243	324.0	9.448
325.0	9.656	326.0	9.867	327.0	10.081	328.0	10.299	329.0	10.520
330.0	10.744	331.0	10.972	332.0	11.203	333.0	11.438	334.0	11.676
335.0	11.918	336.0	12.163	337.0	12.412	338.0	12.665	339.0	12.921
340.0	13.180	341.0	13.444	342.0	13.711	343.0	13.982	344.0	14.256
345.0	14.535	346.0	14.817	347.0	15.103	348.0	15.393	349.0	15.686
350.0	15.984	351.0	16.285	352.0	16.591	353.0	16.900	354.0	17.214
355.0	17.532	356.0	17.853	357.0	18.179	358.0	18.509	359.0	18.842
360.0	19.180	361.0	19.523	362.0	19.869	363.0	20.220	364.0	20.575
365.0	20.934	366.0	21.297	367.0	21.665	368.0	22.037	369.0	22.413