

Table 1: Gerding et al., ACPD, 2008, Supplement: Result of the harmonic fit of temperatures [K]. Profiles are given for every 10 days. See text for details.

altitude [km]	day of year											
	10	20	30	40	50	60	70	80	90	100	110	120
104	170.0	167.2	164.7	163.0	162.1	162.0	162.3	163.1	164.3	165.9	168.2	171.2
102	173.2	172.2	170.5	168.3	166.1	164.5	163.8	164.4	166.0	168.2	170.4	172.2
100	176.2	175.9	174.8	173.0	170.8	168.8	167.4	166.7	166.7	167.2	167.9	168.5
98	178.2	178.0	177.5	176.6	175.4	173.8	172.1	170.6	169.2	168.3	167.6	167.3
96	182.0	181.5	180.7	179.7	178.5	177.0	175.2	173.3	171.2	169.1	167.1	165.5
94	184.3	184.1	183.8	183.3	182.6	181.4	179.6	177.3	174.5	171.4	168.2	165.4
92	186.7	187.0	187.4	187.5	187.2	186.1	184.1	181.3	177.7	173.6	169.4	165.4
90	189.3	190.2	191.0	191.5	191.1	189.8	187.5	184.2	180.1	175.6	170.7	165.8
88	193.6	194.0	194.1	193.9	193.2	191.8	189.5	186.3	182.1	176.9	171.0	164.
86	198.6	197.8	196.9	196.0	195.2	194.3	192.9	190.4	186.2	180.4	173.3	165.5
84	205.2	204.0	202.3	200.5	199.1	198.1	196.9	194.9	191.4	186.1	179.3	171.7
82	209.3	208.2	206.7	204.9	203.3	201.9	200.5	198.5	195.5	191.1	185.4	178.9
80	213.2	212.8	211.7	210.0	208.2	206.3	204.3	202.3	199.7	196.4	192.2	187.2
78	214.8	214.7	214.2	213.1	211.5	209.6	207.6	205.5	203.1	200.5	197.3	193.5
76	217.1	217.1	216.8	216.0	214.8	213.3	211.5	209.5	207.5	205.2	202.7	199.7
74	220.6	220.6	220.3	219.4	218.1	216.5	214.7	213.1	211.5	210.0	208.3	206.2
72	223.6	223.4	223.0	222.2	220.9	219.4	218.0	216.8	215.8	215.1	214.2	213.0
70	225.9	225.8	225.5	224.8	223.8	222.6	221.6	220.9	220.6	220.6	220.5	219.9
68	227.4	227.8	227.8	227.4	226.6	225.6	225.0	225.0	225.5	226.5	227.3	227.5
66	229.6	230.0	230.3	230.3	229.9	229.4	229.1	229.4	230.3	231.7	233.1	234.1
64	232.9	233.4	234.0	234.4	234.6	234.5	234.4	234.7	235.5	236.9	238.6	240.1
62	236.0	236.5	237.4	238.3	238.8	239.0	239.0	239.3	240.1	241.6	243.7	245.8
60	240.4	240.8	241.8	242.8	243.5	243.9	244.0	244.1	244.7	246.1	248.1	250.5
58	245.2	245.5	246.2	247.0	247.6	248.1	248.3	248.6	249.4	250.8	252.8	255.1
56	248.6	248.8	249.5	250.5	251.3	252.0	252.4	252.8	253.5	254.9	256.9	259.4
54	252.8	252.9	253.4	254.2	255.0	255.7	256.2	256.7	257.5	258.8	260.7	263.0
52	257.1	256.8	257.0	257.7	258.5	259.2	259.7	260.1	260.6	261.5	263.1	265.2
50	261.4	260.9	260.7	260.9	261.3	261.9	262.3	262.6	262.9	263.5	264.7	266.5
48	265.3	264.3	263.3	262.7	262.6	262.9	263.3	263.7	264.1	264.6	265.5	266.8
46	265.7	264.5	263.1	262.1	261.6	261.8	262.3	263.0	263.7	264.3	265.0	266.0
44	265.2	263.9	262.1	260.6	259.8	259.8	260.5	261.4	262.2	262.6	263.0	263.6
42	261.7	260.7	259.0	257.3	256.3	256.1	256.6	257.5	258.4	258.9	259.2	259.6
40	255.1	254.5	253.1	251.5	250.3	250.0	250.7	251.8	253.0	253.8	254.1	254.3
38	246.3	246.3	245.3	244.1	243.2	243.3	244.2	245.8	247.3	248.4	248.9	248.9
36	236.4	236.8	236.5	235.9	235.7	236.2	237.6	239.4	241.2	242.4	243.0	243.2
34	226.2	226.9	227.1	227.2	227.6	228.8	230.7	232.9	234.9	236.4	237.1	237.4
32	215.7	216.8	217.8	218.8	220.2	222.1	224.4	226.9	228.9	230.4	231.3	231.7
30	209.4	210.4	211.7	213.2	215.2	217.6	220.0	222.3	224.2	225.6	226.6	227.4
28	205.9	206.9	208.3	210.0	212.1	214.4	216.8	219.0	220.8	222.2	223.2	224.1
26	204.8	205.7	207.0	208.5	210.4	212.4	214.5	216.4	218.1	219.6	220.8	221.9
24	205.1	205.8	207.0	208.6	210.4	212.3	214.1	215.8	217.2	218.5	219.7	220.8
22	206.6	207.4	208.4	209.8	211.3	212.9	214.4	215.9	217.3	218.5	219.6	220.6
20	208.5	209.0	209.8	210.8	212.0	213.3	214.7	216.1	217.5	218.7	219.9	221.0
18	210.3	210.7	211.2	211.7	212.3	213.2	214.2	215.5	216.9	218.3	219.5	220.6
16	212.4	212.8	213.0	213.1	213.3	213.7	214.5	215.7	217.2	218.8	220.1	221.1
14	213.9	214.3	214.3	214.0	213.6	213.5	214.0	215.2	216.9	218.7	220.3	221.3
12	212.9	213.0	212.9	212.6	212.3	212.2	212.5	213.4	214.8	216.4	217.9	219.1
10	216.2	215.7	215.4	215.4	215.6	216.0	216.6	217.2	217.9	218.8	219.9	221.3
8	228.2	227.3	226.6	226.5	227.0	228.1	229.6	231.0	232.2	233.1	234.0	235.1
6	243.3	241.9	240.9	240.6	241.4	243.0	245.1	247.1	248.6	249.5	250.1	250.8
4	257.5	256.0	254.7	254.4	255.1	256.9	259.2	261.3	262.9	263.8	264.2	264.7
2	268.5	267.4	267.0	267.3	267.9	268.4	268.6	268.5	268.5	269.1	270.5	272.8

Table 1: Continued.

altitude [km]	day of year											
	130	140	150	160	170	180	190	200	210	220	230	240
104	174.7	178.5	181.9	184.5	185.9	185.9	184.9	183.2	181.3	179.6	178.2	177.2
102	173.4	174.2	174.6	175.2	175.9	176.7	177.2	177.2	176.3	174.7	172.7	171.0
100	168.9	169.3	170.0	171.1	172.8	174.7	176.5	177.8	178.4	178.1	177.2	176.1
98	167.2	167.2	167.5	168.0	168.9	170.1	171.6	173.1	174.5	175.7	176.5	177.0
96	164.4	163.9	164.0	164.6	165.6	166.9	168.5	170.1	171.9	173.6	175.3	176.9
94	163.1	161.5	160.6	160.4	160.9	162.1	163.8	166.0	168.6	171.5	174.5	177.4
92	161.9	159.1	157.1	156.0	155.9	156.9	158.8	161.8	165.6	170.0	174.4	178.6
90	161.2	157.0	153.6	151.3	150.5	151.3	153.8	157.8	162.8	168.4	174.0	179.1
88	158.6	153.2	149.0	146.4	145.6	146.6	149.3	153.2	158.3	164.0	170.2	176.4
86	158.2	152.0	147.6	145.2	144.4	145.1	146.9	149.7	153.7	158.9	165.4	172.7
84	164.5	158.5	154.4	152.4	151.9	152.6	154.0	155.9	158.5	162.3	167.5	174.0
82	172.5	167.0	163.0	160.7	160.0	160.5	161.8	163.8	166.4	169.9	174.6	180.3
80	181.9	176.8	172.5	169.6	168.1	168.0	168.9	170.7	173.0	175.9	179.4	183.8
78	189.3	185.0	181.0	177.9	175.8	175.1	175.4	176.7	178.6	181.1	184.0	187.3
76	196.3	192.7	189.2	186.2	184.0	182.8	182.5	183.2	184.6	186.5	188.8	191.4
74	203.6	200.6	197.4	194.5	192.2	190.7	190.2	190.5	191.4	192.6	194.2	196.1
72	211.2	208.8	206.1	203.4	201.1	199.5	198.7	198.6	198.9	199.6	200.5	201.8
70	218.6	216.7	214.3	211.9	209.8	208.3	207.4	207.1	207.1	207.3	207.7	208.3
68	226.8	225.1	222.8	220.4	218.4	217.1	216.4	216.2	216.0	215.7	215.3	215.1
66	234.3	233.5	231.9	230.0	228.1	226.6	225.6	225.0	224.5	224.0	223.2	222.4
64	241.1	241.2	240.3	238.8	237.0	235.3	234.0	233.1	232.5	231.8	230.9	229.8
62	247.5	248.3	248.1	246.8	245.1	243.2	241.8	240.8	240.1	239.4	238.4	237.0
60	252.7	254.2	254.5	253.9	252.4	250.7	249.2	248.0	247.2	246.4	245.4	243.9
58	257.4	259.0	259.8	259.6	258.7	257.4	256.0	254.8	253.7	252.6	251.3	249.6
56	261.8	263.8	264.9	265.0	264.2	262.9	261.5	260.2	259.1	258.0	256.8	255.1
54	265.5	267.6	268.9	269.3	268.8	267.6	266.1	264.7	263.4	262.2	260.8	259.1
52	267.7	270.1	271.8	272.6	272.4	271.2	269.6	268.0	266.4	265.1	263.8	262.3
50	268.8	271.2	273.1	274.3	274.4	273.6	272.1	270.3	268.5	266.8	265.4	263.9
48	268.8	271.1	273.3	275.0	275.8	275.3	273.9	271.7	269.3	267.0	265.1	263.5
46	267.7	269.8	272.1	274.2	275.4	275.4	274.1	271.8	269.0	266.2	263.7	261.9
44	264.9	266.8	269.3	271.8	273.6	274.0	272.8	270.3	267.0	263.7	260.9	258.9
42	260.5	262.1	264.4	266.9	269.0	269.8	269.1	267.0	263.7	260.2	257.1	254.7
40	254.7	255.9	257.9	260.4	262.8	264.3	264.2	262.5	259.5	255.9	252.5	249.8
38	249.1	249.9	251.5	253.8	256.2	257.9	258.3	257.1	254.5	251.1	247.7	244.9
36	243.4	244.1	245.5	247.6	249.9	251.6	252.2	251.3	249.1	246.0	242.9	240.3
34	237.5	238.1	239.4	241.3	243.5	245.2	245.9	245.2	243.4	240.8	238.1	235.6
32	232.0	232.8	234.0	235.7	237.6	239.0	239.7	239.4	238.2	236.3	234.3	232.3
30	228.2	229.3	230.6	232.1	233.5	234.5	234.8	234.5	233.6	232.4	231.0	229.6
28	225.0	226.1	227.3	228.6	229.7	230.5	230.9	230.7	230.2	229.4	228.3	227.1
26	222.8	223.8	224.8	225.7	226.5	227.1	227.5	227.5	227.2	226.7	225.9	224.8
24	221.8	222.7	223.5	224.1	224.5	224.7	224.8	224.7	224.5	224.3	223.8	223.0
22	221.5	222.3	223.0	223.5	223.8	224.0	224.1	224.0	223.8	223.4	222.8	222.0
20	221.9	222.7	223.3	223.8	224.1	224.3	224.2	224.1	223.7	223.2	222.5	221.6
18	221.4	222.1	222.6	223.0	223.4	223.6	223.7	223.6	223.1	222.3	221.3	220.2
16	221.7	222.1	222.4	222.7	223.0	223.4	223.5	223.3	222.6	221.4	220.0	218.6
14	221.8	221.9	221.9	222.0	222.5	223.0	223.5	223.4	222.7	221.3	219.6	217.9
12	219.9	220.4	220.8	221.3	222.0	222.7	223.3	223.5	223.2	222.3	221.1	219.7
10	222.9	224.7	226.4	228.0	229.3	230.2	230.8	231.0	230.9	230.7	230.2	229.5
8	236.6	238.6	241.0	243.4	245.4	246.6	247.1	246.9	246.2	245.5	244.8	244.3
6	252.0	254.0	256.6	259.4	261.6	262.9	263.0	262.2	260.9	259.7	259.0	258.7
4	265.7	267.5	269.9	272.4	274.5	275.5	275.3	274.1	272.5	271.1	270.3	270.1
2	275.9	279.1	282.0	284.0	285.0	285.2	285.1	284.9	284.9	285.1	285.2	284.8

Table 1: Continued.

altitude [km]	day of year											
	250	260	270	280	290	300	310	320	330	340	350	360
104	176.3	175.4	174.6	173.8	173.4	173.5	174.2	175.2	176.0	176.4	175.8	174.2
102	169.9	169.9	170.8	172.3	173.9	175.1	175.5	175.4	174.9	174.3	174.0	173.8
100	175.2	174.9	175.1	175.6	176.1	176.3	176.2	175.7	175.3	175.0	175.2	175.7
98	177.2	177.4	177.5	177.7	178.1	178.4	178.6	178.7	178.7	178.6	178.4	178.4
96	178.2	179.3	180.0	180.4	180.6	180.7	180.9	181.1	181.4	181.8	182.1	182.3
94	179.9	181.8	183.1	183.7	184.0	184.0	183.9	183.9	184.0	184.1	184.3	184.4
92	182.1	184.8	186.6	187.6	188.1	188.1	187.9	187.6	187.3	187.0	186.7	186.6
90	183.5	187.1	189.8	191.7	192.8	193.2	192.9	192.2	191.1	190.0	189.2	188.8
88	182.3	187.5	191.7	194.7	196.3	196.8	196.4	195.4	194.4	193.6	193.1	193.1
86	180.3	187.4	193.0	196.8	198.7	199.1	198.6	198.0	197.8	198.0	198.4	198.8
84	181.3	188.5	194.5	198.8	201.0	201.7	201.5	201.3	201.7	202.8	204.1	205.2
82	186.8	193.2	199.0	203.4	206.0	207.2	207.4	207.3	207.4	207.9	208.7	209.4
80	188.8	194.2	199.5	204.2	207.7	210.0	211.2	211.6	211.7	211.8	212.3	212.8
78	191.2	195.4	199.9	204.1	207.8	210.6	212.4	213.4	213.8	213.9	214.1	214.3
76	194.5	197.9	201.6	205.3	208.8	211.6	213.8	215.1	215.9	216.3	216.5	216.7
74	198.4	201.3	204.6	208.3	211.9	215.0	217.4	219.0	219.8	220.1	220.2	220.3
72	203.5	205.8	208.8	212.2	215.7	218.9	221.3	222.9	223.7	223.9	223.8	223.6
70	209.4	211.1	213.6	216.7	219.8	222.6	224.7	225.9	226.4	226.3	226.0	225.9
68	215.3	216.4	218.3	221.0	223.8	226.2	227.8	228.4	228.2	227.6	227.0	226.9
66	222.0	222.2	223.2	225.1	227.3	229.4	230.9	231.5	231.3	230.6	229.9	229.5
64	228.8	228.2	228.2	229.1	230.7	232.4	233.9	234.8	234.9	234.4	233.6	233.0
62	235.5	234.1	233.4	233.6	234.6	236.1	237.6	238.6	238.8	238.2	237.3	236.4
60	242.0	240.1	238.8	238.2	238.7	239.9	241.3	242.5	242.9	242.7	241.8	240.9
58	247.7	245.8	244.2	243.5	243.5	244.3	245.4	246.4	246.9	246.9	246.4	245.7
56	253.1	251.0	249.1	248.0	247.7	248.2	249.1	250.1	250.6	250.6	250.1	249.3
54	257.2	255.1	253.3	252.0	251.5	251.8	252.7	253.7	254.4	254.6	254.3	253.6
52	260.5	258.5	256.6	255.2	254.5	254.6	255.6	256.8	258.0	258.7	258.7	258.2
50	262.3	260.5	258.8	257.4	256.6	256.8	257.7	259.2	260.7	261.9	262.4	262.3
48	262.2	260.9	259.6	258.5	257.8	257.9	258.8	260.4	262.4	264.3	265.6	266.1
46	260.5	259.5	258.5	257.5	256.8	256.7	257.3	258.7	260.8	263.1	265.0	266.0
44	257.7	256.9	256.2	255.3	254.5	254.1	254.4	255.8	258.2	261.0	263.5	265.2
42	253.3	252.4	251.6	250.9	250.0	249.5	249.5	250.6	252.8	255.6	258.5	260.7
40	248.1	247.1	246.4	245.6	244.6	243.5	242.9	243.3	244.9	247.5	250.5	253.1
38	243.1	242.0	241.2	240.2	238.8	237.2	235.9	235.4	236.2	238.2	241.0	243.7
36	238.3	237.0	235.7	234.3	232.4	230.3	228.4	227.4	227.5	228.9	231.2	233.7
34	233.8	232.2	230.7	228.8	226.4	223.7	221.2	219.5	218.9	219.6	221.4	223.5
32	230.5	228.6	226.5	223.9	220.8	217.5	214.5	212.2	211.0	211.0	211.9	213.4
30	227.9	226.0	223.6	220.6	217.4	214.1	211.2	209.0	207.7	207.2	207.4	208.1
28	225.6	223.7	221.3	218.5	215.3	212.2	209.3	207.1	205.6	204.8	204.6	204.9
26	223.4	221.7	219.6	217.2	214.6	211.9	209.5	207.4	205.8	204.7	204.2	204.1
24	221.9	220.4	218.5	216.5	214.3	212.2	210.3	208.6	207.2	206.1	205.3	204.9
22	220.9	219.6	217.9	216.2	214.3	212.5	210.9	209.4	208.2	207.2	206.6	206.3
20	220.6	219.4	218.0	216.6	215.1	213.6	212.2	210.9	209.9	209.1	208.5	208.3
18	219.1	218.0	217.1	216.1	215.1	214.1	213.0	211.9	211.0	210.3	210.0	209.9
16	217.4	216.6	216.0	215.6	215.2	214.5	213.7	212.7	211.9	211.5	211.4	211.7
14	216.5	215.8	215.6	215.7	215.8	215.4	214.7	213.7	212.8	212.2	212.2	212.7
12	218.6	217.8	217.4	217.1	216.9	216.4	215.6	214.6	213.6	212.8	212.5	212.5
10	228.6	227.4	226.0	224.4	223.0	221.6	220.5	219.7	219.0	218.4	217.8	217.2
8	243.6	242.6	241.1	239.0	236.7	234.3	232.4	231.0	230.3	230.0	229.8	229.4
6	258.5	257.9	256.7	254.5	251.8	248.9	246.6	245.2	244.7	244.8	245.0	244.8
4	270.2	270.0	269.1	267.3	264.8	262.2	260.0	258.8	258.5	258.8	259.2	259.1
2	283.7	281.8	279.5	277.2	275.5	274.6	274.4	274.6	274.7	274.2	273.0	271.3