

Supplementary information:

Table S1. The rule for classifying the levels of RH

Value/%	<=1	1~2	2~3	3~4	4~5	5~6	6~7	7~8	8~9	9~10	10~11	11~12	12~13
Level	1	2	3	4	5	6	7	8	9	10	11	12	13
Value/%	13~14	14~15	15~16	16~17	17~18	18~19	19~20	20~21	21~22	22~23	23~24	24~25	25~26
Level	14	15	16	17	18	19	20	21	22	23	24	25	26
Value/%	26~27	27~28	28~29	29~30	30~31	31~32	32~33	33~34	34~35	35~36	36~37	37~38	38~39
Level	27	28	29	30	31	32	33	34	35	36	37	38	39
Value/%	39~40	40~41	41~42	42~43	43~44	44~45	45~46	46~47	47~48	48~49	49~50	50~51	51~52
Level	40	41	42	43	44	45	46	47	48	49	50	51	52
Value/%	52~53	53~54	54~55	55~56	56~57	57~58	58~59	59~60	60~61	61~62	62~63	63~64	64~65
Level	53	54	55	56	57	58	59	60	61	62	63	64	65
Value/%	65~66	66~67	67~68	68~69	69~70	70~71	71~72	72~73	73~74	74~75	75~76	76~77	77~78
Level	66	67	68	69	70	71	72	73	74	75	76	77	78
Value/%	78~79	79~80	80~81	81~82	82~83	83~84	84~85	85~86	86~87	87~88	88~89	89~90	90~91
Level	79	80	81	82	83	84	85	86	87	88	89	90	91
Value/%	91~92	92~93	93~94	94~95	95~96	96~97	97~98	98~99	>100				
Level	92	93	94	95	96	97	98	99	100				

Table S2. The rule for classifying the levels of Ts

Value/°C	<=-2	-2~-1.9	-1.9~-1.8	-1.8~-1.7	-1.7~-1.6	-1.6~-1.5	-1.5~-1.4	-1.4~-1.3	-1.3~-1.2	-1.2~-1.1
Level	1	2	3	4	5	6	7	8	9	10
Value/°C	-1.1~-1.0	-1.0~-0.9	-0.9~-0.8	-0.8~-0.7	-0.7~-0.6	-0.6~-0.5	-0.5~-0.4	-0.4~-0.3	-0.3~-0.2	-0.2~-0.1
Level	11	12	13	14	15	16	17	18	19	20
Value/°C	-0.1~0.0	0.0~0.1	0.1~0.2	0.2~0.3	0.3~0.4	0.4~0.5	0.5~0.6	0.6~0.7	0.7~0.8	0.8~0.9
Level	21	22	23	24	25	26	27	28	29	30
Value/°C	0.9~1.0	1.0~1.1	1.1~1.2	1.2~1.3	1.3~1.4	1.4~1.5	1.5~1.6	1.6~1.7	1.7~1.8	1.8~1.9
Level	31	32	33	34	35	36	37	38	39	40
Value/°C	1.9~2.0	2.0~2.1	2.1~2.2	2.2~2.3	2.3~2.4	2.4~2.5	2.5~2.6	2.6~2.7	2.7~2.8	2.8~2.9
Level	41	42	43	44	45	46	47	48	49	50
Value/°C	2.9~3.0	3.0~3.1	3.1~3.2	3.2~3.3	3.3~3.4	3.4~3.5	3.5~3.6	3.6~3.7	3.7~3.8	3.8~3.9
Level	51	52	53	54	55	56	57	58	59	60
Value/°C	3.9~4.0	4.0~4.1	4.1~4.2	4.2~4.3	4.3~4.4	4.4~4.5	4.5~4.6	4.6~4.7	4.7~4.8	4.8~4.9
Level	61	62	63	64	65	66	67	68	69	70
Value/°C	4.9~5.0	5.0~5.1	5.1~5.2	5.2~5.3	5.3~5.4	5.4~5.5	5.5~5.6	5.6~5.7	5.7~5.8	5.8~5.9
Level	71	72	73	74	75	76	77	78	79	80
Value/°C	5.9~6.0	6.0~6.1	6.1~6.2	6.2~6.3	6.3~6.4	6.4~6.5	6.5~6.6	6.6~6.7	6.7~6.8	6.8~6.9
Level	81	82	83	84	85	86	87	88	89	90
Value/°C	6.9~7.0	7.0~7.1	7.1~7.2	7.2~7.3	7.3~7.4	7.4~7.5	7.5~7.6	7.6~7.7	7.7~7.8	7.8~7.9
Level	91	92	93	94	95	96	97	98	99	100
Value/°C	7.9~8.0	8.0~8.1	8.1~8.2	8.2~8.3	8.3~8.4	8.4~8.5	8.5~8.6	8.6~8.7	8.7~8.8	8.8~8.9
Level	101	102	103	104	105	106	107	108	109	110
Value/°C	8.9~9.0	9.0~9.1	9.1~9.2	9.2~9.3	9.3~9.4	9.4~9.5	9.5~9.6	9.6~9.7	9.7~9.8	9.8~9.9
Level	111	112	113	114	115	116	117	118	119	120
Value/°C	9.9~10.0	10.0~10.1	10.1~10.2	10.2~10.3	10.3~10.4	10.4~10.5	10.5~10.6	10.6~10.7	10.7~10.8	10.8~10.9
Level	121	122	123	124	125	126	127	128	129	130
Value/°C	10.9~11.0	11.0~11.1	11.1~11.2	11.2~11.3	11.3~11.4	11.4~11.5	11.5~11.6	11.6~11.7	11.7~11.8	11.8~11.9
Level	131	132	133	134	135	136	137	138	139	140
Value/°C	11.9~12.0	12.0~12.1	12.1~12.2	12.2~12.3	12.3~12.4	12.4~12.5	12.5~12.6	12.6~12.7	12.7~12.8	12.8~12.9
Level	141	142	143	144	145	146	147	148	149	150
Value/°C	12.9~13.0	13.0~13.1	13.1~13.2	13.2~13.3	13.3~13.4	13.4~13.5	13.5~13.6	13.6~13.7	13.7~13.8	13.8~13.9
Level	151	152	153	154	155	156	157	158	159	160
Value/°C	13.9~14.0	14.0~14.1	14.1~14.2	14.2~14.3	14.3~14.4	14.4~14.5	14.5~14.6	14.6~14.7	14.7~14.8	14.8~14.9
Level	161	162	163	164	165	166	167	168	169	170
Value/°C	14.9~15.0	15.0~15.1	15.1~15.2	15.2~15.3	15.3~15.4	15.4~15.5	15.5~15.6	15.6~15.7	15.7~15.8	15.8~15.9
Level	171	172	173	174	175	176	177	178	179	180
Value/°C	15.9~16.0	16.0~16.1	16.1~16.2	16.2~16.3	16.3~16.4	16.4~16.5	16.5~16.6	16.6~16.7	16.7~16.8	16.8~16.9
Level	181	182	183	184	185	186	187	188	189	190
Value/°C	16.9~17.0	17.0~17.1	17.1~17.2	17.2~17.3	17.3~17.4	17.4~17.5	17.5~17.6	17.6~17.7	17.7~17.8	17.8~17.9
Level	191	192	193	194	195	196	197	198	199	200

Table S3. The rule for classifying the levels of Ta

Value/°C	<=-30	-30~-29.9	-29.9~-29.8	-29.8~-29.7	-29.7~-29.6	-29.6~-29.5	-29.5~-29.4	-29.4~-29.3	-29.3~-29.2	-29.2~-29.1
Level	1	2	3	4	5	6	7	8	9	10
Value/°C	-29.1~-29.0	-29.0~-28.9	-28.9~-28.8	-28.8~-28.7	-28.7~-28.6	-28.6~-28.5	-28.5~-28.4	-28.4~-28.3	-28.3~-28.2	-28.2~-28.1
Level	11	12	13	14	15	16	17	18	19	20
Value/°C	-28.1~-28.0	-28.0~-27.9	-27.9~-27.8	-27.8~-27.7	-27.7~-27.6	-27.6~-27.5	-27.5~-27.4	-27.4~-27.3	-27.3~-27.2	-27.2~-27.1
Level	21	22	23	24	25	26	27	28	29	30
Value/°C	-27.1~-27.0	-27.0~-26.9	-26.9~-26.8	-26.8~-26.7	-26.7~-26.6	-26.6~-26.5	-26.5~-26.4	-26.4~-26.3	-26.3~-26.2	-26.2~-26.1
Level	31	32	33	34	35	36	37	38	39	40
Value/°C	-26.1~-26.0	-26.0~-25.9	-25.9~-25.8	-25.8~-25.7	-25.7~-25.6	-25.6~-25.5	-25.5~-25.4	-25.4~-25.3	-25.3~-25.2	-25.2~-25.1
Level	41	42	43	44	45	46	47	48	49	50
Value/°C	-25.1~-25.0	-25.0~-24.9	-24.9~-24.8	-24.8~-24.7	-24.7~-24.6	-24.6~-24.5	-24.5~-24.4	-24.4~-24.3	-24.3~-24.2	-24.2~-24.1
Level	51	52	53	54	55	56	57	58	59	60
Value/°C	-24.1~-24.0	-24.0~-23.9	-23.9~-23.8	-23.8~-23.7	-23.7~-23.6	-23.6~-23.5	-23.5~-23.4	-23.4~-23.3	-23.3~-23.2	-23.2~-23.1
Level	61	62	63	64	65	66	67	68	69	70
Value/°C	-23.1~-23.0	-23.0~-22.9	-22.9~-22.8	-22.8~-22.7	-22.7~-22.6	-22.6~-22.5	-22.5~-22.4	-22.4~-22.3	-22.3~-22.2	-22.2~-22.1
Level	71	72	73	74	75	76	77	78	79	80
Value/°C	-22.1~-22.0	-22.0~-21.9	-21.9~-21.8	-21.8~-21.7	-21.7~-21.6	-21.6~-21.5	-21.5~-21.4	-21.4~-21.3	-21.3~-21.2	-21.2~-21.1
Level	81	82	83	84	85	86	87	88	89	90
Value/°C	-21.1~-21.0	-21.0~-20.9	-20.9~-20.8	-20.8~-20.7	-20.7~-20.6	-20.6~-20.5	-20.5~-20.4	-20.4~-20.3	-20.3~-20.2	-20.2~-20.1
Level	91	92	93	94	95	96	97	98	99	100
Value/°C	-20.1~-20.0	-20.0~-19.9	-19.9~-19.8	-19.8~-19.7	-19.7~-19.6	-19.6~-19.5	-19.5~-19.4	-19.4~-19.3	-19.3~-19.2	-19.2~-19.1
Level	101	102	103	104	105	106	107	108	109	110
Value/°C	-19.1~-19.0	-19.0~-18.9	-18.9~-18.8	-18.8~-18.7	-18.7~-18.6	-18.6~-18.5	-18.5~-18.4	-18.4~-18.3	-18.3~-18.2	-18.2~-18.1
Level	111	112	113	114	115	116	117	118	119	120
Value/°C	-18.1~-18.0	-18.0~-17.9	-17.9~-17.8	-17.8~-17.7	-17.7~-17.6	-17.6~-17.5	-17.5~-17.4	-17.4~-17.3	-17.3~-17.2	-17.2~-17.1
Level	121	122	123	124	125	126	127	128	129	130
Value/°C	-17.1~-17.0	-17.0~-16.9	-16.9~-16.8	-16.8~-16.7	-16.7~-16.6	-16.6~-16.5	-16.5~-16.4	-16.4~-16.3	-16.3~-16.2	-16.2~-16.1
Level	131	132	133	134	135	136	137	138	139	140
Value/°C	-16.1~-16.0	-16.0~-15.9	-15.9~-15.8	-15.8~-15.7	-15.7~-15.6	-15.6~-15.5	-15.5~-15.4	-15.4~-15.3	-15.3~-15.2	-15.2~-15.1
Level	141	142	143	144	145	146	147	148	149	150
Value/°C	-15.1~-15.0	-15.0~-14.9	-14.9~-14.8	-14.8~-14.7	-14.7~-14.6	-14.6~-14.5	-14.5~-14.4	-14.4~-14.3	-14.3~-14.2	-14.2~-14.1
Level	151	152	153	154	155	156	157	158	159	160
Value/°C	-14.1~-14.0	-14.0~-13.9	-13.9~-13.8	-13.8~-13.7	-13.7~-13.6	-13.6~-13.5	-13.5~-13.4	-13.4~-13.3	-13.3~-13.2	-13.2~-13.1
Level	161	162	163	164	165	166	167	168	169	170
Value/°C	-13.1~-13.0	-13.0~-12.9	-12.9~-12.8	-12.8~-12.7	-12.7~-12.6	-12.6~-12.5	-12.5~-12.4	-12.4~-12.3	-12.3~-12.2	-12.2~-12.1
Level	171	172	173	174	175	176	177	178	179	180
Value/°C	-12.1~-12.0	-12.0~-11.9	-11.9~-11.8	-11.8~-11.7	-11.7~-11.6	-11.6~-11.5	-11.5~-11.4	-11.4~-11.3	-11.3~-11.2	-11.2~-11.1
Level	181	182	183	184	185	186	187	188	189	190
Value/°C	-11.1~-11.0	-11.0~-10.9	-10.9~-10.8	-10.8~-10.7	-10.7~-10.6	-10.6~-10.5	-10.5~-10.4	-10.4~-10.3	-10.3~-10.2	-10.2~-10.1
Level	191	192	193	194	195	196	197	198	199	200

Value/°C	-10.1~-10.0	-10.0~-9.9	-9.9~-9.8	-9.8~-9.7	-9.7~-9.6	-9.6~-9.5	-9.5~-9.4	-9.4~-9.3	-9.3~-9.2	-9.2~-9.1
Level	201	202	203	204	205	206	207	208	209	210
Value/°C	-9.1~-9.0	-9.0~-8.9	-8.9~-8.8	-8.8~-8.7	-8.7~-8.6	-8.6~-8.5	-8.5~-8.4	-8.4~-8.3	-8.3~-8.2	-8.2~-8.1
Level	211	212	213	214	215	216	217	218	219	220
Value/°C	-8.1~-8.0	-8.0~-7.9	-7.9~-7.8	-7.8~-7.7	-7.7~-7.6	-7.6~-7.5	-7.5~-7.4	-7.4~-7.3	-7.3~-7.2	-7.2~-7.1
Level	221	222	223	224	225	226	227	228	229	230
Value/°C	-7.1~-7.0	-7.0~-6.9	-6.9~-6.8	-6.8~-6.7	-6.7~-6.6	-6.6~-6.5	-6.5~-6.4	-6.4~-6.3	-6.3~-6.2	-6.2~-6.1
Level	231	232	233	234	235	236	237	238	239	240
Value/°C	-6.1~-6.0	-6.0~-5.9	-5.9~-5.8	-5.8~-5.7	-5.7~-5.6	-5.6~-5.5	-5.5~-5.4	-5.4~-5.3	-5.3~-5.2	-5.2~-5.1
Level	241	242	243	244	245	246	247	248	249	250
Value/°C	-5.1~-5.0	-5.0~-4.9	-4.9~-4.8	-4.8~-4.7	-4.7~-4.6	-4.6~-4.5	-4.5~-4.4	-4.4~-4.3	-4.3~-4.2	-4.2~-4.1
Level	251	252	253	254	255	256	257	258	259	260
Value/°C	-4.1~-4.0	-4.0~-3.9	-3.9~-3.8	-3.8~-3.7	-3.7~-3.6	-3.6~-3.5	-3.5~-3.4	-3.4~-3.3	-3.3~-3.2	-3.2~-3.1
Level	261	262	263	264	265	266	267	268	269	270
Value/°C	-3.1~-3.0	-3.0~-2.9	-2.9~-2.8	-2.8~-2.7	-2.7~-2.6	-2.6~-2.5	-2.5~-2.4	-2.4~-2.3	-2.3~-2.2	-2.2~-2.1
Level	271	272	273	274	275	276	277	278	279	280
Value/°C	-2.1~-2.0	-2.0~-1.9	-1.9~-1.8	-1.8~-1.7	-1.7~-1.6	-1.6~-1.5	-1.5~-1.4	-1.4~-1.3	-1.3~-1.2	-1.2~-1.1
Level	281	282	283	284	285	286	287	288	289	290
Value/°C	-1.1~-1.0	-1.0~-0.9	-0.9~-0.8	-0.8~-0.7	-0.7~-0.6	-0.6~-0.5	-0.5~-0.4	-0.4~-0.3	-0.3~-0.2	-0.2~-0.1
Level	291	292	293	294	295	296	297	298	299	300
Value/°C	-0.1~-0.0	0.0~0.1	0.1~0.2	0.2~0.3	0.3~0.4	0.4~0.5	0.5~0.6	0.6~0.7	0.7~0.8	0.8~0.9
Level	301	302	303	304	305	306	307	308	309	310
Value/°C	0.9~1.0	1.0~1.1	1.1~1.2	1.2~1.3	1.3~1.4	1.4~1.5	1.5~1.6	1.6~1.7	1.7~1.8	1.8~1.9
Level	311	312	313	314	315	316	317	318	319	320
Value/°C	1.9~2.0	2.0~2.1	2.1~2.2	2.2~2.3	2.3~2.4	2.4~2.5	2.5~2.6	2.6~2.7	2.7~2.8	2.8~2.9
Level	321	322	323	324	325	326	327	328	329	330
Value/°C	2.9~3.0	3.0~3.1	3.1~3.2	3.2~3.3	3.3~3.4	3.4~3.5	3.5~3.6	3.6~3.7	3.7~3.8	3.8~3.9
Level	331	332	333	334	335	336	337	338	339	340
Value/°C	3.9~4.0	4.0~4.1	4.1~4.2	4.2~4.3	4.3~4.4	4.4~4.5	4.5~4.6	4.6~4.7	4.7~4.8	4.8~4.9
Level	341	342	343	344	345	346	347	348	349	350
Value/°C	4.9~5.0	5.0~5.1	5.1~5.2	5.2~5.3	5.3~5.4	5.4~5.5	5.5~5.6	5.6~5.7	5.7~5.8	5.8~5.9
Level	351	352	353	354	355	356	357	358	359	360
Value/°C	5.9~6.0	6.0~6.1	6.1~6.2	6.2~6.3	6.3~6.4	6.4~6.5	6.5~6.6	6.6~6.7	6.7~6.8	6.8~6.9
Level	361	362	363	364	365	366	367	368	369	370
Value/°C	6.9~7.0	7.0~7.1	7.1~7.2	7.2~7.3	7.3~7.4	7.4~7.5	7.5~7.6	7.6~7.7	7.7~7.8	7.8~7.9
Level	371	372	373	374	375	376	377	378	379	380
Value/°C	7.9~8.0	8.0~8.1	8.1~8.2	8.2~8.3	8.3~8.4	8.4~8.5	8.5~8.6	8.6~8.7	8.7~8.8	8.8~8.9
Level	381	382	383	384	385	386	387	388	389	390
Value/°C	8.9~9.0	9.0~9.1	9.1~9.2	9.2~9.3	9.3~9.4	9.4~9.5	9.5~9.6	9.6~9.7	9.7~9.8	9.8~9.9
Level	391	392	393	394	395	396	397	398	399	400
Value/°C	9.9~10.0	10.0~10.1	10.1~10.2	10.2~10.3	10.3~10.4	10.4~10.5	10.5~10.6	10.6~10.7	10.7~10.8	10.8~10.9
Level	401	402	403	404	405	406	407	408	409	410

Table S4. The rule for classifying the levels of Uh

Value (m/s)	<=0.1	0.1~0.2	0.2~0.3	0.3~0.4	0.4~0.5	0.5~0.6	0.6~0.7	0.7~0.8	0.8~0.9	0.9~1.0
Level	1	2	3	4	5	6	7	8	9	10
Value (m/s)	1.0~1.1	1.1~1.2	1.2~1.3	1.3~1.4	1.4~1.5	1.5~1.6	1.6~1.7	1.7~1.8	1.8~1.9	1.9~2.0
Level	11	12	13	14	15	16	17	18	19	20
Value (m/s)	2.0~2.1	2.1~2.2	2.2~2.3	2.3~2.4	2.4~2.5	2.5~2.6	2.6~2.7	2.7~2.8	2.8~2.9	2.9~3.0
Level	21	22	23	24	25	26	27	28	29	30
Value (m/s)	3.0~3.1	3.1~3.2	3.2~3.3	3.3~3.4	3.4~3.5	3.5~3.6	3.6~3.7	3.7~3.8	3.8~3.9	3.9~4.0
Level	31	32	33	34	35	36	37	38	39	40
Value (m/s)	4.0~4.1	4.1~4.2	4.2~4.3	4.3~4.4	4.4~4.5	4.5~4.6	4.6~4.7	4.7~4.8	4.8~4.9	4.9~5.0
Level	41	42	43	44	45	46	47	48	49	50
Value (m/s)	5.0~5.1	5.1~5.2	5.2~5.3	5.3~5.4	5.4~5.5	5.5~5.6	5.6~5.7	5.7~5.8	5.8~5.9	5.9~6.0
Level	51	52	53	54	55	56	57	58	59	60
Value (m/s)	6.0~6.1	6.1~6.2	6.2~6.3	6.3~6.4	6.4~6.5	6.5~6.6	6.6~6.7	6.7~6.8	6.8~6.9	6.9~7.0
Level	61	62	63	64	65	66	67	68	69	70
Value (m/s)	7.0~7.1	7.1~7.2	7.2~7.3	7.3~7.4	7.4~7.5	7.5~7.6	7.6~7.7	7.7~7.8	7.8~7.9	7.9~8.0
Level	71	72	73	74	75	76	77	78	79	80
Value (m/s)	8.0~8.1	8.1~8.2	8.2~8.3	8.3~8.4	8.4~8.5	8.5~8.6	8.6~8.7	8.7~8.8	8.8~8.9	8.9~9.0
Level	81	82	83	84	85	86	87	88	89	90
Value (m/s)	9.0~9.1	9.1~9.2	9.2~9.3	9.3~9.4	9.4~9.5	9.5~9.6	9.6~9.7	9.7~9.8	9.8~9.9	9.9~10.0
Level	91	92	93	94	95	96	97	98	99	100
Value (m/s)	10.0~10.1	10.1~10.2	10.2~10.3	10.3~10.4	10.4~10.5	10.5~10.6	10.6~10.7	10.7~10.8	10.8~10.9	10.9~11.0
Level	101	102	103	104	105	106	107	108	109	110
Value (m/s)	11.0~11.1	11.1~11.2	11.2~11.3	11.3~11.4	11.4~11.5	11.5~11.6	11.6~11.7	11.7~11.8	11.8~11.9	11.9~12.0
Level	111	112	113	114	115	116	117	118	119	120
Value (m/s)	12.0~12.1	12.1~12.2	12.2~12.3	12.3~12.4	12.4~12.5	12.5~12.6	12.6~12.7	12.7~12.8	12.8~12.9	12.9~13.0
Level	121	122	123	124	125	126	127	128	129	130
Value (m/s)	13.0~13.1	13.1~13.2	13.2~13.3	13.3~13.4	13.4~13.5	13.5~13.6	13.6~13.7	13.7~13.8	13.8~13.9	13.9~14.0
Level	131	132	133	134	135	136	137	138	139	140
Value (m/s)	14.0~14.1	14.1~14.2	14.2~14.3	14.3~14.4	14.4~14.5	14.5~14.6	14.6~14.7	14.7~14.8	14.8~14.9	14.9~15.0
Level	141	142	143	144	145	146	147	148	149	150
Value (m/s)	15.0~15.1	15.1~15.2	15.2~15.3	15.3~15.4	15.4~15.5	15.5~15.6	15.6~15.7	15.7~15.8	15.8~15.9	15.9~16.0
Level	151	152	153	154	155	156	157	158	159	160
Value (m/s)	16.0~16.1	16.1~16.2	16.2~16.3	16.3~16.4	16.4~16.5	16.5~16.6	16.6~16.7	16.7~16.8	16.8~16.9	16.9~17.0
Level	161	162	163	164	165	166	167	168	169	170
Value (m/s)	17.0~17.1	17.1~17.2	17.2~17.3	17.3~17.4	17.4~17.5	17.5~17.6	17.6~17.7	17.7~17.8	17.8~17.9	17.9~18.0
Level	171	172	173	174	175	176	177	178	179	180
Value (m/s)	18.0~18.1	18.1~18.2	18.2~18.3	18.3~18.4	18.4~18.5	18.5~18.6	18.6~18.7	18.7~18.8	18.8~18.9	18.9~19.0
Level	181	182	183	184	185	186	187	188	189	190
Value (m/s)	19.0~19.1	19.1~19.2	19.2~19.3	19.3~19.4	19.4~19.5	19.5~19.6	19.6~19.7	19.7~19.8	19.8~19.9	19.9~20.0
Level	191	192	193	194	195	196	197	198	199	200

Table S5. The rule for classifying the levels of Ps

Value/hPa	<=950	950-950.5	950.5-951	951-951.5	951.5-952	952-952.5	952.5-953	953-953.5	953.5-954	954-954.5
Level	1	2	3	4	5	6	7	8	9	10
Value/hPa	954.5-955	955-955.5	955.5-956	956-956.5	956.5-957	957-957.5	957.5-958	958-958.5	958.5-959	959-959.5
Level	11	12	13	14	15	16	17	18	19	20
Value/hPa	959.5-960	960-960.5	960.5-961	961-961.5	961.5-962	962-962.5	962.5-963	963-963.5	963.5-964	964-964.5
Level	21	22	23	24	25	26	27	28	29	30
Value/hPa	964.5-965	965-965.5	965.5-966	966-966.5	966.5-967	967-967.5	967.5-968	968-968.5	968.5-969	969-969.5
Level	31	32	33	34	35	36	37	38	39	40
Value/hPa	969.5-970	970-970.5	970.5-971	971-971.5	971.5-972	972-972.5	972.5-973	973-973.5	973.5-974	974-974.5
Level	41	42	43	44	45	46	47	48	49	50
Value/hPa	974.5-975	975-975.5	975.5-976	976-976.5	976.5-977	977-977.5	977.5-978	978-978.5	978.5-979	979-979.5
Level	51	52	53	54	55	56	57	58	59	60
Value/hPa	979.5-980	980-980.5	980.5-981	981-981.5	981.5-982	982-982.5	982.5-983	983-983.5	983.5-984	984-984.5
Level	61	62	63	64	65	66	67	68	69	70
Value/hPa	984.5-985	985-985.5	985.5-986	986-986.5	986.5-987	987-987.5	987.5-988	988-988.5	988.5-989	989-989.5
Level	71	72	73	74	75	76	77	78	79	80
Value/hPa	989.5-990	990-990.5	990.5-991	991-991.5	991.5-992	992-992.5	992.5-993	993-993.5	993.5-994	994-994.5
Level	81	82	83	84	85	86	87	88	89	90
Value/hPa	994.5-995	995-995.5	995.5-996	996-996.5	996.5-997	997-997.5	997.5-999	998-999.5	998.5-999	999-999.5
Level	91	92	93	94	95	96	97	98	99	100
Value/hPa	999.5-1000	1000~	1000.5~	1001~	1001.5~	1002~	1002.5~	1003~	1003.5~	1004~
Level	101	102	103	104	105	106	107	108	109	110
Value/hPa	1004.5~	1005~	1005.5~	1006~	1006.5~	1007~	1007.5~	1008~	1008.5~	1009~
Level	111	112	113	114	115	116	117	118	119	120
Value/hPa	1009.5~	1010~	1010.5~	1011~	1011.5~	1012~	1012.5~	1013~	1013.5~	1014~
Level	121	122	123	124	125	126	127	128	129	130
Value/hPa	1014.5~	1015~	1015.5~	1016~	1016.5~	1017~	1017.5~	1018~	1018.5~	1019~
Level	131	132	133	134	135	136	137	138	139	140
Value/hPa	1019.5~	1020~	1020.5~	1021~	1021.5~	1022~	1022.5~	1023~	1023.5~	1024~
Level	141	142	143	144	145	146	147	148	149	150
Value/hPa	1024.5~	1025~	1025.5~	1026~	1026.5~	1027~	1027.5~	1028~	1028.5~	1029~
Level	151	152	153	154	155	156	157	158	159	160
Value/hPa	1029.5~	1030~	1030.5~	1031~	1031.5~	1032~	1032.5~	1033~	1033.5~	1034~
Level	161	162	163	164	165	166	167	168	169	170

Table S6. The rule for classifying the levels of TDsa

Value/°C	<=-14	-14.0~-13.9	-13.9~-13.8	-13.8~-13.7	-13.7~-13.6	-13.6~-13.5	-13.5~-13.4	-13.4~-13.3	-13.3~-13.2	-13.2~-13.1
Level	1	2	3	4	5	6	7	8	9	10
Value/°C	-13.1~-13.0	-13.0~-12.9	-12.9~-12.8	-12.8~-12.7	-12.7~-12.6	-12.6~-12.5	-12.5~-12.4	-12.4~-12.3	-12.3~-12.2	-12.2~-12.1
Level	11	12	13	14	15	16	17	18	19	20
Value/°C	-12.1~-12.0	-12.0~-11.9	-11.9~-11.8	-11.8~-11.7	-11.7~-11.6	-11.6~-11.5	-11.5~-11.4	-11.4~-11.3	-11.3~-11.2	-11.2~-11.1
Level	21	22	23	24	25	26	27	28	29	30
Value/°C	-11.1~-11.0	-11.0~-10.9	-10.9~-10.8	-10.8~-10.7	-10.7~-10.6	-10.6~-10.5	-10.5~-10.4	-10.4~-10.3	-10.3~-10.2	-10.2~-10.1
Level	31	32	33	34	35	36	37	38	39	40
Value/°C	-10.1~-10.0	-10.0~-9.9	-9.9~-9.8	-9.8~-9.7	-9.7~-9.6	-9.6~-9.5	-9.5~-9.4	-9.4~-9.3	-9.3~-9.2	-9.2~-9.1
Level	41	42	43	44	45	46	47	48	49	50
Value/°C	-9.1~-9.0	-9.0~-8.9	-8.9~-8.8	-8.8~-8.7	-8.7~-8.6	-8.6~-8.5	-8.5~-8.4	-8.4~-8.3	-8.3~-8.2	-8.2~-8.1
Level	51	52	53	54	55	56	57	58	59	60
Value/°C	-8.1~-8.0	-8.0~-7.9	-7.9~-7.8	-7.8~-7.7	-7.7~-7.6	-7.6~-7.5	-7.5~-7.4	-7.4~-7.3	-7.3~-7.2	-7.2~-7.1
Level	61	62	63	64	65	66	67	68	69	70
Value/°C	-7.1~-7.0	-7.0~-6.9	-6.9~-6.8	-6.8~-6.7	-6.7~-6.6	-6.6~-6.5	-6.5~-6.4	-6.4~-6.3	-6.3~-6.2	-6.2~-6.1
Level	71	72	73	74	75	76	77	78	79	80
Value/°C	-6.1~-6.0	-6.0~-5.9	-5.9~-5.8	-5.8~-5.7	-5.7~-5.6	-5.6~-5.5	-5.5~-5.4	-5.4~-5.3	-5.3~-5.2	-5.2~-5.1
Level	81	82	83	84	85	86	87	88	89	90
Value/°C	-5.1~-5.0	-5.0~-4.9	-4.9~-4.8	-4.8~-4.7	-4.7~-4.6	-4.6~-4.5	-4.5~-4.4	-4.4~-4.3	-4.3~-4.2	-4.2~-4.1
Level	91	92	93	94	95	96	97	98	99	100
Value/°C	-4.1~-4.0	-4.0~-3.9	-3.9~-3.8	-3.8~-3.7	-3.7~-3.6	-3.6~-3.5	-3.5~-3.4	-3.4~-3.3	-3.3~-3.2	-3.2~-3.1
Level	101	102	103	104	105	106	107	108	109	110
Value/°C	-3.1~-3.0	-3.0~-2.9	-2.9~-2.8	-2.8~-2.7	-2.7~-2.6	-2.6~-2.5	-2.5~-2.4	-2.4~-2.3	-2.3~-2.2	-2.2~-2.1
Level	111	112	113	114	115	116	117	118	119	120
Value/°C	-2.1~-2.0	-2.0~-1.9	-1.9~-1.8	-1.8~-1.7	-1.7~-1.6	-1.6~-1.5	-1.5~-1.4	-1.4~-1.3	-1.3~-1.2	-1.2~-1.1
Level	121	122	123	124	125	126	127	128	129	130
Value/°C	-1.1~-1.0	-1.0~-0.9	-0.9~-0.8	-0.8~-0.7	-0.7~-0.6	-0.6~-0.5	-0.5~-0.4	-0.4~-0.3	-0.3~-0.2	-0.2~-0.1
Level	131	132	133	134	135	136	137	138	139	140
Value/°C	-0.1~0.0	0.0~0.1	0.1~0.2	0.2~0.3	0.3~0.4	0.4~0.5	0.5~0.6	0.6~0.7	0.7~0.8	0.8~0.9
Level	141	142	143	144	145	146	147	148	149	150
Value/°C	0.9~1.0	1.0~1.1	1.1~1.2	1.2~1.3	1.3~1.4	1.4~1.5	1.5~1.6	1.6~1.7	1.7~1.8	1.8~1.9
Level	151	152	153	154	155	156	157	158	159	160
Value/°C	1.9~2.0	2.0~2.1	2.1~2.2	2.2~2.3	2.3~2.4	2.4~2.5	2.5~2.6	2.6~2.7	2.7~2.8	2.8~2.9
Level	161	162	163	164	165	166	167	168	169	170
Value/°C	2.9~3.0	3.0~3.1	3.1~3.2	3.2~3.3	3.3~3.4	3.4~3.5	3.5~3.6	3.6~3.7	3.7~3.8	3.8~3.9
Level	171	172	173	174	175	176	177	178	179	180
Value/°C	3.9~4.0	4.0~4.1	4.1~4.2	4.2~4.3	4.3~4.4	4.4~4.5	4.5~4.6	4.6~4.7	4.7~4.8	4.8~4.9
Level	181	182	183	184	185	186	187	188	189	190
Value/°C	4.9~5.0	5.0~5.1	5.1~5.2	5.2~5.3	5.3~5.4	5.4~5.5	5.5~5.6	5.6~5.7	5.7~5.8	5.8~5.9
Level	191	192	193	194	195	196	197	198	199	200

Value/°C	5.9~6.0	6.0~6.1	6.1~6.2	6.2~6.3	6.3~6.4	6.4~6.5	6.5~6.6	6.6~6.7	6.7~6.8	6.8~6.9
Level	201	202	203	204	205	206	207	208	209	210
Value/°C	6.9~7.0	7.0~7.1	7.1~7.2	7.2~7.3	7.3~7.4	7.4~7.5	7.5~7.6	7.6~7.7	7.7~7.8	7.8~7.9
Level	211	212	213	214	215	216	217	218	219	220
Value/°C	7.9~8.0	8.0~8.1	8.1~8.2	8.2~8.3	8.3~8.4	8.4~8.5	8.5~8.6	8.6~8.7	8.7~8.8	8.8~8.9
Level	221	222	223	224	225	226	227	228	229	230
Value/°C	8.9~9.0	9.0~9.1	9.1~9.2	9.2~9.3	9.3~9.4	9.4~9.5	9.5~9.6	9.6~9.7	9.7~9.8	9.8~9.9
Level	231	232	233	234	235	236	237	238	239	240
Value/°C	9.9~10.0	10.0~10.1	10.1~10.2	10.2~10.3	10.3~10.4	10.4~10.5	10.5~10.6	10.6~10.7	10.7~10.8	10.8~10.9
Level	241	242	243	244	245	246	247	248	249	250
Value/°C	10.9~11.0	11.0~11.1	11.1~11.2	11.2~11.3	11.3~11.4	11.4~11.5	11.5~11.6	11.6~11.7	11.7~11.8	11.8~11.9
Level	251	252	253	254	255	256	257	258	259	260
Value/°C	11.9~12.0	12.0~12.1	12.1~12.2	12.2~12.3	12.3~12.4	12.4~12.5	12.5~12.6	12.6~12.7	12.7~12.8	12.8~12.9
Level	261	262	263	264	265	266	267	268	269	270
Value/°C	12.9~13.0	13.0~13.1	13.1~13.2	13.2~13.3	13.3~13.4	13.4~13.5	13.5~13.6	13.6~13.7	13.7~13.8	13.8~13.9
Level	271	272	273	274	275	276	277	278	279	280
Value/°C	13.9~14.0	14.0~14.1	14.1~14.2	14.2~14.3	14.3~14.4	14.4~14.5	14.5~14.6	14.6~14.7	14.7~14.8	14.8~14.9
Level	281	282	283	284	285	286	287	288	289	290
Value/°C	14.9~15.0	15.0~15.1	15.1~15.2	15.2~15.3	15.3~15.4	15.4~15.5	15.5~15.6	15.6~15.7	15.7~15.8	15.8~15.9
Level	291	292	293	294	295	296	297	298	299	300
Value/°C	15.9~16.0	16.0~16.1	16.1~16.2	16.2~16.3	16.3~16.4	16.4~16.5	16.5~16.6	16.6~16.7	16.7~16.8	16.8~16.9
Level	301	302	303	304	305	306	307	308	309	310
Value/°C	16.9~17.0	17.0~17.1	17.1~17.2	17.2~17.3	17.3~17.4	17.4~17.5	17.5~17.6	17.6~17.7	17.7~17.8	17.8~17.9
Level	311	312	313	314	315	316	317	318	319	320
Value/°C	17.9~18.0	18.0~18.1	18.1~18.2	18.2~18.3	18.3~18.4	18.4~18.5	18.5~18.6	18.6~18.7	18.7~18.8	18.8~18.9
Level	321	322	323	324	325	326	327	328	329	330
Value/°C	18.9~19.0	19.0~19.1	19.1~19.2	19.2~19.3	19.3~19.4	19.4~19.5	19.5~19.6	19.6~19.7	19.7~19.8	19.8~19.9
Level	331	332	333	334	335	336	337	338	339	340
Value/°C	19.9~20.0	20.0~20.1	20.1~20.2	20.2~20.3	20.3~20.4	20.4~20.5	20.5~20.6	20.6~20.7	20.7~20.8	20.8~20.9
Level	341	342	343	344	345	346	347	348	349	350
Value/°C	20.9~21.0	21.0~21.1	21.1~21.2	21.2~21.3	21.3~21.4	21.4~21.5	21.5~21.6	21.6~21.7	21.7~21.8	21.8~21.9
Level	351	352	353	354	355	356	357	358	359	360
Value/°C	21.9~22.0	22.0~22.1	22.1~22.2	22.2~22.3	22.3~22.4	22.4~22.5	22.5~22.6	22.6~22.7	22.7~22.8	22.8~22.9
Level	361	362	363	364	365	366	367	368	369	370
Value/°C	22.9~23.0	23.0~23.1	23.1~23.2	23.2~23.3	23.3~23.4	23.4~23.5	23.5~23.6	23.6~23.7	23.7~23.8	23.8~23.9
Level	371	372	373	374	375	376	377	378	379	380
Value/°C	23.9~24.0	24.0~24.1	24.1~24.2	24.2~24.3	24.3~24.4	24.4~24.5	24.5~24.6	24.6~24.7	24.7~24.8	24.8~24.9
Level	381	382	383	384	385	386	387	388	389	390
Value/°C	24.9~25.0	25.0~25.1	25.1~25.2	25.2~25.3	25.3~25.4	25.4~25.5	25.5~25.6	25.6~25.7	25.7~25.8	25.8~25.9
Level	391	392	393	394	395	396	397	398	399	400
Value/°C	25.9~26.0	26.0~26.1	26.1~26.2	26.2~26.3	26.3~26.4	26.4~26.5	26.5~26.6	26.6~26.7	26.7~26.8	26.8~26.9
Level	401	402	403	404	405	406	407	408	409	410

