

STATION MODEL AND EXPLANATION OF WEATHER CODE FIGURES AND SYMBOLS

Effective December 14, 2001

* Refers to "hail" only
 ** Refers to "soft hail", "small hail", and "hail"
 *** The symbol is not plotted for "ww" when 00 is reported.
 When "01, 02, or 03" is reported for "ww",
 the symbol is plotted on the station circle.

WW Present Weather				Handout					C _L	C _M	C _H	C	W	N	a	
									Clouds of type C _L	Clouds of type C _M	Clouds of type C _H	Type of Cloud	Past Weather	Total amount all clouds	Barometer characteristics	
00	01	02	03	04	05	06	07	08	09	0	0	0	0	0	0	
Cloud development NOT observed or NOT observable during past hour.***	Clouds generally dissolving or becoming less developed during past hour.***	State of sky on the whole unchanged during past hour.***	Clouds generally forming or developing during past hour.***	Visibility reduced by smoke.	Haze.	Widespread dust in suspension in the air, NOT raised by wind, at time of observation.	Dust or sand raised by wind at time of observation.	Well developed dust devil(s) within past hour.	Dust storm or sandstorm within sight of or at station during past hour.	No Sc, St, Cu, or Cb clouds.	No Ac, As, or Ns clouds.	No Ci, Cc, or Cs clouds.	Cloud covering 1/2 or less of sky throughout the period.	No clouds.	Rising then falling. Now higher than, or the same as, 3 hours ago.	
10	11	12	13	14	15	16	17	18	19	1	1	1	1	1	1	
Light fog.	Patches of shallow fog at station, NOT deeper than 6 feet on land.	More or less continuous shallow fog at station, NOT deeper than 6 feet on land.	Lightning visible, no thunder heard.	Precipitation within sight, but NOT reaching the ground.	Precipitation within sight, reaching the ground, but distant from station.	Precipitation within sight, reaching the ground, near to but NOT at station.	Thunder heard, but no precipitation at the station.	Squall(s) within sight during past hour.	Funnel cloud(s) within sight during past hour.	Ragged Cu, other than which is semi-transparent through which the sun or moon may be faintly visible as through ground glass.	As, the greatest part of which is semi-transparent through which the sun or moon may be faintly visible as through ground glass.	Filaments, strands, or hooks of Ci, not increasing.	Cloud covering more than 1/2 of sky during part of period and covering 1/2 or less during part of period.	One-eighth or less, but not zero.	Rising, then steady or rising, then rising more slowly. Now higher than 3 hours ago.	
20	21	22	23	24	25	26	27	28	29	2	2	2	2	2	2	
Drizzle (NOT freezing and NOT falling as showers) during past hour, but NOT at time of observation.	Rain (NOT freezing and NOT falling as showers) during past hour, but NOT at time of observation.	Snow (NOT falling as showers) during past hour, but NOT at time of observation.	Rain and snow (NOT falling as showers) during past hour, but NOT at time of observation.	Freezing drizzle or freezing rain (NOT falling as showers) during past hour, but NOT at time of observation.	Showers of rain during past hour, but NOT at time of observation.	Showers of snow, or of rain and snow, during past hour, but NOT at time of observation.	Showers of hail, or of hail and rain, during past hour, but NOT at time of observation.	Fog during past hour, but NOT at time of observation.	Thunderstorm (with or without precipitation) during past hour, but NOT at time of observation.	Cu of considerable development, generally towering, with or without other Cu or Sc; bases all at same level.	As, the greatest part of which is sufficiently dense to hide the sun or moon, or Ns.	Dense Ci in patches or twisted sheaves, usually not increasing; or Ci with towers or battlements or resembling cumuliiform tufts.	Cloud covering more than 1/2 of sky throughout the period.	Two-eighths.	Rising (steady or unsteady). Now higher than 3 hours ago.	
30	31	32	33	34	35	36	37	38	39	3	3	3	3	3	3	
Slight or moderate dust storm or sandstorm, has decreased during past hour.	Slight or moderate dust storm or sandstorm, no appreciable change during past hour.	Slight or moderate dust storm or sandstorm, has increased during past hour.	Severe dust storm or sandstorm, has decreased during past hour.	Severe dust storm or sandstorm, no appreciable change during past hour.	Severe dust storm or sandstorm, has increased during past hour.	Slight or moderate drifting snow, generally low.	Heavy drifting snow, generally low.	Slight or moderate blowing snow, generally high.	Heavy blowing snow, generally high.	Cb with tops lacking clear-out outlines, but are clearly not fibrous, cirriform, or anvil-shaped; Cu, Sc, or St may be present.	Ac (most of layer is semitransparent) other than crenelated or in cumuliiform tufts; cloud elements change but slowly with all bases at a single level.	Ci, often anvil-shaped derived from or associated with Cb.	Cloud covering more than 1/2 of sky throughout the period.	Three-eighths.	Falling or steady, then rising then rising more rapidly. Now higher than 3 hours ago.	
40	41	42	43	44	45	46	47	48	49	4	4	4	4	4	4	
Fog at a distance at time of ob.; but NOT at station during past hour.	Fog in patches.	Fog, sky discernible, has become thinner during past hour.	Fog, sky NOT discernible, has become thinner during past hour.	Fog, sky discernible, no appreciable change during past hour.	Fog, sky NOT discernible, no appreciable change during past hour.	Fog, sky discernible, has begun or become thicker during past hour.	Fog, sky NOT discernible, has begun or become thicker during past hour.	Fog, depositing rime, sky discernible.	Fog, depositing rime, sky NOT discernible.	Sc formed by spreading out of Cu; Cu may be present also.	Patches of semitransparent Ac which are at one or more levels; cloud elements are continuously changing.	Ci, hook-shaped and/or filaments, spreading over the sky and generally becoming denser as a whole.	Cloud covering more than 1/2 of sky throughout the period.	Four-eighths.	Steady. Same as 3 hours ago.	
50	51	52	53	54	55	56	57	58	59	5	5	5	5	5	5	
Intermittent drizzle (NOT freezing), slight at time of observation.	Continuous drizzle (NOT freezing), slight at time of observation.	Intermittent drizzle (NOT freezing), moderate at time of observation.	Continuous drizzle (NOT freezing), moderate at time of observation.	Intermittent drizzle (NOT freezing), thick at time of observation.	Continuous drizzle (NOT freezing), thick at time of observation.	Slight freezing drizzle.	Moderate or thick freezing drizzle.	Drizzle and rain, slight.	Drizzle and rain, moderate or heavy.	Sc not formed by spreading out of Cu.	Semitransparent Ac in bands or Ac in one more or less continuous layer gradually spreading over sky and usually thickening as a whole; the layer may be opaque or a double sheet.	Ci, often in converging bands, and Cs or Cs alone but increasing and growing denser as a whole; the continuous veil not exceeding 45 degrees above horizon.	Cloud covering more than 1/2 of sky throughout the period.	Five-eighths.	Falling, then rising. Now lower than, or the same as, 3 hours ago.	
60	61	62	63	64	65	66	67	68	69	6	6	6	6	6	6	
Intermittent rain (NOT freezing), slight at time of observation.	Continuous rain (NOT freezing), slight at time of observation.	Intermittent rain (NOT freezing), moderate at time of observation.	Continuous rain (NOT freezing), moderate at time of observation.	Intermittent rain (NOT freezing), heavy at time of observation.	Continuous rain (NOT freezing), heavy at time of observation.	Slight freezing rain.	Moderate or heavy freezing rain.	Rain or drizzle and snow, slight.	Rain or drizzle and snow, moderate or heavy.	St in a more or less continuous layer and/or ragged shreds, but no Fs of bad weather.	Ac formed by the spreading out of Cu.	Ci, often in converging bands, and Cs or Cs alone but increasing and growing denser as a whole; the continuous veil exceeds 45 degrees above horizon but sky not totally covered.	Cloud covering more than 1/2 of sky throughout the period.	Six-eighths.	Falling, then steady; or falling, then falling more slowly. Now lower than 3 hours ago.	
70	71	72	73	74	75	76	77	78	79	7	7	7	7	7	7	
Intermittent fall of snowflakes, slight at time of observation.	Continuous fall of snowflakes, slight at time of observation.	Intermittent fall of snowflakes, moderate at time of observation.	Continuous fall of snowflakes, moderate at time of observation.	Intermittent fall of snowflakes, heavy at time of observation.	Continuous fall of snowflakes, heavy at time of observation.	Ice needles (with or without fog).	Granular snow (with or without fog).	Isolated starlike snow crystals (with or without fog).	Ice pellets (sleet, U.S. definition).	Fs and/or Fc of bad weather (scud) usually under As and Ns.	Double-layered Ac or an opaque layer of Ac, not increasing over the sky; or Ac coexisting with As or Ns or with both.	Veil of Cs completely covering the sky.	Cloud covering more than 1/2 of sky throughout the period.	Seven-eighths.	Falling (steadily or unsteadily). Now lower than 3 hours ago.	
80	81	82	83	84	85	86	87	88	89	8	8	8	8	8	8	
Slight rain shower(s).	Moderate or heavy rain shower(s).	Violent rain shower(s).	Slight shower(s) of rain and snow mixed.	Moderate or heavy shower(s) of rain and snow mixed.	Slight snow shower(s).	Moderate or heavy snow shower(s).	Slight shower(s) of soft or small hail with or without rain or rain and snow mixed.	Moderate or heavy shower(s) of soft or small hail with or without rain or rain and snow mixed.	Slight shower(s) of hail**, with or without rain or rain and snow mixed, not associated with thunder.	Cu and Sc (not formed by spreading out of Cu); base of Cu at a different level than base of Sc.	Ac with sprouts in the form of small towers or battlements or Ac having the appearance of cumuliiform tufts.	Cs not increasing and not completely covering the sky.	Cloud covering more than 1/2 of sky throughout the period.	Eight-eighths.	Steady or rising, then falling; or falling, then falling more rapidly. Now lower than 3 hours ago.	
90	91	92	93	94	95	96	97	98	99	9	9	9	9	9	9	
Moderate or heavy shower(s) of hail**, with or without rain or rain and snow mixed, not associated with thunder.	Slight rain at time of ob.; thunderstorm during past hour, but NOT at time of observation.	Moderate or heavy rain at time of ob.; thunderstorm during past hour, but NOT at time of observation.	Slight snow or rain and snow mixed or hail* at time of observa.; thunderstorm during past hour, but NOT at time of observation.	Mod. or heavy snow or rain and snow mixed or hail* at time of ob.; thunderstorm during past hour, but NOT at time of observation.	Slight or moderate thunderstorm without hail*, but with rain and/or snow at time of observation.	Slight or moderate thunderstorm, with hail* at time of observation.	Heavy thunderstorm, without hail*, but with rain and/or snow at time of observation.	Thunderstorm combined with dust storm or sandstorm at time of observation.	Heavy thunderstorm with hail* at time of observation.	Cb having a clearly fibrous (cirriform) top, often anvil-shaped, with or without Cu, Sc, St, or scud.	Ac, generally at several layers in a chaotic sky; dense Cirrus is usually present.	Cc alone or Cc accompanied by Ci and/or Cs, but Cc is the predominant cirriform cloud.	Cloud covering more than 1/2 of sky throughout the period.	Thunderstorm with or without precipitation.	Sky obscured, or cloud amount cannot be estimated.	Indicator figure. Regionally agreed elements and NOT "pp" are reported by the next two code figures.