





































































































WW PRESENT WEATHER (Descriptions Abridged from W. M. O. Code)

00	10	20	30	40	50	60	70	80	90
 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 sand storm within sight of or at station during past hour
 Light fog	 Patches of shallow fog at station, NOT deeper than 6 feet on land	 More or less continuous shallow fog at station, but NOT at time of observation	 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
 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 obs.
 Slight or moderate dust storm or sand storm, has decreased during past hour	 Slight or moderate dust storm or sand storm, no appreciable change during past hour	 Slight or moderate dust storm or sand storm, has increased during past hour	 Severe dust storm or sand storm, has decreased during past hour	 Severe dust storm or sand storm, no appreciable change during past hour	 Severe dust storm or sand storm, has increased during past hour	 Slight or moderate drifting snow, generally low	 Heavy drifting snow, generally low	 Slight or moderate drifting snow, generally high	 Heavy drifting snow, generally high
 Fog at distance at time of observation, 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
 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
 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 obs.	 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
 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)
 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
 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 observation; thunderstorm during past hour, but NOT at time of observation	 Moderate or heavy rain at time of observation; thunderstorm during past hour, but NOT at time of observation	 Slight snow or rain and snow mixed or hail at time of observation; thunderstorm during past hour, but not at time of observation	 Moderate or heavy snow, or rain and snow mixed or hail at time of observation; thunderstorm during past hour, but NOT at time of obs.	 Slight or moderate thunderstorm without hail, but with rain and/or snow at time of obs.	 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 sand storm at time of obs.	 Heavy thunderstorm with hail at time of observation

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CLOUD ABBREVIATION		C _L	DESCRIPTION (Abridged From W.M.O. Code)		C _M	DESCRIPTION (Abridged From W.M.O. Code)		C _H	DESCRIPTION (Abridged From W.M.O. Code) ③
St or Fs-Stratus or Fractostratus	1		Cu of fair weather, little vertical development and seemingly flattened	1		Thin As (most of cloud layer semi-transparent)	1		Filaments of Ci, or "mares tails," scattered and not increasing
Ci-Cirrus	2		Cu of considerable development, generally towering, with or without other Cu or Sc bases all at same level	2		Thick As, greater part sufficiently dense to hide sun (or moon), or Ns	2		Dense Ci in patches or twisted sheaves, usually not increasing, sometimes like remains of Cb, or towers or tufts
Cs-Cirrostratus	3		Cb with tops lacking clear-cut outlines, but distinctly not cirriform or anvil-shaped; with or without Cu, Sc, or St	3		Thin Ac, mostly semi-transparent; cloud elements not changing much and at a single level	3		Dense Ci, often anvil-shaped, derived from or associated with Cb
Cc-Cirrocumulus	4		Sc formed by spreading out of Cu; Cu often present also	4		Thin Ac in patches; cloud elements continually changing and/or occurring at more than one level	4		Ci, often hook-shaped, gradually spreading over the sky and usually thickening as a whole
Ac-Altocumulus	5		Sc not formed by spreading out of Cu	5		Thin Ac in bands or in a layer gradually spreading over sky and usually thickening as a whole	5		Ci and Cs, often in converging bands, or Cs alone, generally overspreading and growing denser; the continuous layer not reaching 45° altitude
As-Altostratus	6		St or Fs or both, but no Fs of bad weather	6		Ac formed by the spreading out of Cu	6		Ci and Cs, often in converging bands, or Cs alone, generally overspreading and growing denser; the continuous layer exceeding 45° altitude
Sc-Stratocumulus	7		Fs and/or Fc of bad weather (scud)	7		Double-layered Ac, or a thick layer of Ac, not increasing, or Ac with As and/or Ns	7		Veil of Cs covering the entire sky
Cu or Fc-Cumulus or Fractocumulus	8		Cu and Sc (not formed by spreading out of Cu) with bases at different levels	8		Ac in the form of Cu-shaped tufts or Ac with turrets	8		Cs not increasing and not covering entire sky
Cb-Cumulonimbus	9		Cb having a clearly fibrous (cirriform) top, often anvil-shaped, with or without Cu, Sc, St, or scud	9		Ac of a chaotic sky, usually at different levels; patches of dense Ci are usually present also	9		Cc alone or Cc with some Ci or Cs, but the Cc being the main cirriform cloud

R _t	TIME OF PRECIPITATION ④	h	HEIGHT IN FEET (Rounded Off)	HEIGHT IN METERS (Approximate) ⑤	N	SKY COVERAGE ⑥ (Total Amount)	N _h	SKY COVERAGE ⑦ (Low And/Or Middle Clouds)
0	No Precipitation	0	0 - 149	0 - 49		No clouds	0	No clouds
1	Less than 1 hour ago	1	150 - 299	50 - 99		Less than one-tenth or one-tenth	1	Less than one-tenth or one-tenth
2	1 to 2 hours ago	2	300 - 599	100 - 199		Two-tenths or three-tenths	2	Two-tenths or three-tenths
3	2 to 3 hours ago	3	600 - 999	200 - 299		Four-tenths	3	Four-tenths
4	3 to 4 hours ago	4	1,000 - 1,999	300 - 599		Five-tenths	4	Five-tenths
5	4 to 5 hours ago	5	2,000 - 3,499	600 - 999		Six-tenths	5	Six-tenths
6	5 to 6 hours ago	6	3,500 - 4,999	1,000 - 1,499		Seven-tenths or eight-tenths	6	Seven-tenths or eight-tenths
7	6 to 12 hours ago	7	5,000 - 6,499	1,500 - 1,999		Nine-tenths or overcast with openings	7	Nine-tenths or overcast with openings
8	More than 12 hours ago	8	6,500 - 7,999	2,000 - 2,499		Completely overcast	8	Completely overcast
9	Unknown	9	At or above 8,000, or no clouds	At or above 2,500, or no clouds		Sky obscured	9	Sky obscured

Symbol VV=Horizontal Visibility

Code Figure	Statute Mile	Code Figure	Statute Mile	Code Figure	Statute Mile
00	under 1/16	65	9 3/4	83	25 3/4
		66	10	84	31 1/4
01	1/16	67	10 3/4	85	34 3/4
		68	11 1/4	86	37 1/2
47 to 50	3 3/4	69	11 3/4	87	40 3/4
		70	12 1/2	88	43 3/4
(* Divide code by 16)		71	13 3/4	89	over 43 3/4
51-55	not used	72	13 3/4		
		73	14 3/4	90	under 1/2
56	3 3/4	74	15	91	1/2
57	4 3/4	75	15 3/4	92	3/4
58	5	76	16 3/4	93	1 1/4
59	5 3/4	77	16 3/4	94	1 3/4
60	6 3/4	78	17 3/4	95	1 3/4
61	6 3/4	79	18 3/4	96	2 3/4
62	7 3/4	80	18 3/4	97	6 3/4
63	8 3/4	81	21 3/4	98	12 3/4
64	8 3/4	82	25	99	31 3/4 or more

NOTES:

- The values given are discrete values (i.e., not ranges). If the observed visibility is between two of the reportable distances as given in the table, the code figure of the lower reportable distance shall be reported.
- Only the code figures 00-89 shall be used in reports from land stations.
- In reporting visibility at sea the decade 90-99 shall be used.

47 IFR 10 PGB

ff	(MILES) (Statute) Per Hour	9 KNOTS
☉	Calm	Calm
—	1 - 2	1 - 2
—	3 - 8	3 - 7
—	9 - 14	8 - 12
—	15 - 20	13 - 17
—	21 - 25	18 - 22
—	26 - 31	23 - 27
—	32 - 37	28 - 32
—	38 - 43	33 - 37
—	44 - 49	38 - 42
—	50 - 54	43 - 47
—	55 - 60	48 - 52
—	61 - 66	53 - 57
—	67 - 71	58 - 62
—	72 - 77	63 - 67
—	78 - 83	68 - 72
—	84 - 89	73 - 77
—	119 - 123	103 - 107

LGT
 LGT
 LGT
 MDT
 MDT
 STG
 STG
 GALE
 GALE
 GALE
 STORM

Code Number	d	10 BAROMETRIC TENDENCY
0	↗	Rising, then falling
1	↗	Rising, then steady; or rising, then rising more slowly
2	↗	Rising steadily, or unsteadily
3	✓	Falling or steady, then rising; or rising, then rising more quickly
4	—	Steady, same as 3 hours ago
5	↘	Falling, then rising, same or lower than 3 hours ago
6	↘	Falling, then steady; or falling, then falling more slowly
7	↘	Falling steadily, or unsteadily
8	↘	Steady or rising, then falling; or falling, then falling more quickly

Barometer now higher than 3 hours ago (Codes 1, 2, 3)
 Barometer now lower than 3 hours ago (Codes 5, 6, 7)

Code Number	W	11 PAST WEATHER
0		Clear or few clouds
1		Partly cloudy (scattered) or variable sky
2		Cloudy (broken) or overcast
3	S +	Sandstorm or dust-storm, or drifting or blowing snow
4	≡	Fog, or smoke, or thick dust haze
5	,	Drizzle
6	•	Rain
7	*	Snow, or rain and snow mixed, or ice pellets (sleet)
8	▽	Shower(s)
9	⚡	Thunderstorm, with or without precipitation

Not Plotted (Codes 0, 1, 2)

Right (Code 9)

12



13 Temperatures and dew points are coded in °C but plotted in °F on U.S. Surface Charts. Temperatures below 0°C are coded by dropping minus sign and adding 50. Thus, -5°C is coded as 55.

