

CODES

Part 2

Weather Forecasting Handbook

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REFERENCES

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1. SYNOPTIC CODE

Known by the World Meteorological Organization as the SYNOP (FM 12-IX) and SHIP (FM 13-IX) codes, this format has for years carried the majority of worldwide weather observations thousands of times a day. It looks intimidating at first, but beginners can quickly learn to break down the important parts of the code, particularly the valuable bits of information in Sections 0 and 1 that are important to a weather analysis.

1.1. FORMAT

Each section is followed by a carriage return (linefeed), so that two sections are not collocated on the same line. Codes in parentheses are optionally included.

Section 0 - Header information

M_iM_iM_iM_i D....D or A₁b_wn_bn_bn_b YYGGi_w lllii or 99L_aL_aL_a Q_cL_oL_oL_oL_o

Section 1 - Basic weather data

I_RxhVV Nddff (00fff) 1S_nTTT 2S_nT_dT_dT_d or 29UUU 3P_oP_oP_oP_o 4PPPP or 4a₃hhh 5appp 6RRRt_R 7wwW₁W₂ or 7w_aw_aw_a1w_a2 8N_nC_LC_MC_H 9GGgg

Section 2 - Maritime data

222D_sv_s (0s_nT_wT_wT_w) (1P_{wa}P_{wa}H_{wa}H_{wa}) (2P_wP_wH_wH_w) [(3d_{w1}d_{w1}d_{w2}d_{w2}) (4P_{w1}P_{w1}H_{w1}H_{w1}) (5P_{w2}P_{w2}H_{w2}H_{w2})] (6I_sE_sE_sR_s or ICING+plain language) (70H_{wa}H_{wa}H_{wa}) (ICE+cS_ib_iD_iz_i or plain language)

Section 3 - Regional supplementary data

333 (0) (1s_nT_xT_xT_x) (2s_nT_nT_nT_n) (3Ejjj) (4E'sss) (5j₁j₂j₃j₄ (j₅j₆j₇j₈j₉)) (6RRRt_R) (7R₂₄R₂₄R₂₄R₂₄) (8N_sCh_sh_s) (9S_pS_pS_pS_p) (80000 (0) (1))

Section 4 - Mountaintop station data

444 N'C'H'H'C_t

Section 5 - National data

555 Groups here are specified and used by individual countries for disseminating special weather data that benefits their own agencies and users.

1.2. EXAMPLE

72261 35966 03211 10133 21100 39863 40235 53001 92353 333 10161
21027 555 91400=

1.3. GROUP BREAKDOWN

1.3.1. Section 0 - Header information

M_iM_iM_iM_i

Either AAXX if this is a land report, or BBXX if it is a ship report.

D....D or A₁b_wn_bn_bn_b

Ship data. Not necessary if the station is a land station and other parts of the same bulletin contain this item of information.

D....D - Ship's call sign, consisting of three or more alphanumeric characters.

A₁ - WMO Regional Association number where the buoy, drilling rig, or oil or gas production platform has been deployed. (See map)

b_w - Sub-area belonging to the area indicated by A1. (See map)

n_bn_bn_b - Type and serial number of buoy.

YYGGi_w

Time/date group.

YY - Day of the month for the observation.

GG - Actual time of observation to the nearest whole hour UTC (Universal Coordinated Time, also known as Zulu and Greenwich Mean Time).

i_w - Indicator for the source and units of wind speed.

<u>Code</u>	<u>Meaning</u>
0	Wind speed estimated in meters per second
1	Wind speed measured in meters per second
2	Wind speed estimated in knots
3	Wind speed measured in knots

IIII

Land station number. Not necessary if the station is a land station and other parts of the same bulletin contain this item of information.

II - Station block number.

<u>Code</u>	<u>Region</u>
00-39	Europe
40-59	Asia
60-69	Africa
70-79	North America
80-88	South America
89	Antarctica
90-98	Pacific

iii - Station number. These codes comprise a worldwide list of weather stations too numerous to list here.

99L_aL_aL_aQ_cL_oL_oL_o

Ship's latitude and longitude (location of the observation).

L_aL_aL_a - Latitude in tens, units, and tenths.

Q_c - Quadrant of globe.

<u>Code</u>	<u>Location (latitude)</u>	<u>Location (longitude)</u>
1	North latitude	East longitude
3	South latitude	East longitude
5	South latitude	West longitude
7	North latitude	West longitude

L_oL_oL_o - Longitude in hundreds, tens, units, and tenths.

1.3.2. Section 1 - Weather information**I_RhVV**

Precipitation and station operation data.

I_R - Indicator for inclusion or omission of precipitation data.

<u>Code</u>	<u>Precipitation data is in:</u>	<u>Group 6RRRt_R is:</u>
0	Sections 1 and 3	Included both sectns
1	In Section 1	Included
2	In Section 3	Included
3	In neither Section 1 or 3	Omitted (no precip)
4	In neither Section 1 or 3	Omitted (unknown)
/	In Section 5, intermediate hours (<i>Russia</i>)	

I_x - Indicator for the type of station operation, as follows. An automatic station only uses code 4 when it is technologically advanced enough to be able to report with the extended codes used by manned stations.

<u>Code</u>	<u>Precipitation data is in:</u>	<u>Group 6RRRt_R is:</u>
1	Manned	Included (using ww and W ₁ W ₂)
2	Manned	Omitted (no significant to report)
3	Manned	Omitted (no observation; data unavbl)
4	Automatic	Included (using ww and W ₁ W ₂)
5	Automatic	Omitted (no significant to report)
6	Automatic	Omitted (no observation; data unavbl)
7	Automatic	Included (using

h - Height above surface of the lowest cloud base seen. Due to the limitations of computerized stations, the cloud base may not be detected by it either because it is not directly above the station or is beyond the range of the measuring optics.

<u>Code</u>	<u>Height</u>
-------------	---------------

0	0 to 49 m
1	50 to 99 m
2	100 to 199 m
3	200 to 299 m
4	300 to 599 m
5	600 to 999 m
6	1000 to 1499 m
7	1500 to 1999 m
8	2000 to 2499 m
9	2500 m or more, or no clouds
/	Height unknown, or cloud is below station and tops are above

(In Canada, if the sky is completely obscured and clouds are visible below the height of vertical visibility, h is reported as observed).

VV - Horizontal visibility at the surface.

00-50	Units and tenths of km (i.e. 0 to 5 km)
51-55	Not used
56-80	Tens and units of km, minus 50 (6 to 30 km)
81	35 km
82	40 km
83	45 km
84	50 km
85	55 km
86	60 km
87	65 km
88	70 km
89	greater than 70 km
90	less than 0.05 km
91	0.05 km
92	0.2 km
93	0.5 km
94	1 km
95	2 km
96	4 km
97	10 km
98	20 km
99	equal to or greater than 50 km

Nddff

Cloud cover and wind report.

N - Total cloud cover in oktas (eighths), which is actually seen by the observer during the observation. Zero means absolutely clear, while 8 means absolutely cloudy. Code 9 signifies that the sky is obscured by fog, haze, and/or other phenomena, and "/" means that the cloud cover is indiscernable or that the sky observation was not made. Altocumulus/stratocumulus perlucidus (which creates a "mackerel sky") is always reported as 7 or less, unless other layers are present. It is considered 0 (zero) when no clouds can be seen, even if fog or haze is present. Rapidly dissipating contrails (aircraft jet trails) are not considered as a cloud type, but persistent trails are reported as a cloud.

ddff - Wind direction and speed. This is a 10-minute average of the wind during the period preceding the observation. If there is a discontinuity or interruption in the sample, only data obtained after the discontinuity is included for reporting the figure (which may not be a full 10-minute average). If wind equipment is not present, the winds are estimated using the Beaufort scale. Wind equipment on ships is corrected for the speed of movement of the ship, yielding an accurate representation of the winds as if it were stationary. Code ff is the wind speed, given in units derived from I_w . Code dd is the wind direction in hundreds and tens of degrees from which the wind is blowing, relative to true north. If the station is located within 1 degree of the north or south pole, it signifies which meridian the wind is blowing from (09 is 90 degrees west and 27 is 90 degrees east).

(In the United States, knots are used, except for reports from automatic sea stations which will use meters per second as the unit of measurement. In Italy, in reports from auxiliary ships only the code figures for mean wind speed equivalents in knots of the various degrees of the Beaufort scale are used.)

(00fff)

High wind report, where fff is the wind speed in units indicated by I_w . If the wind speed is 99 units or more, ff in the previous group is encoded as 99, and this group is included in the report. It contains the full value in fff.

1S_nTTT

Temperature, where S_n is the sign, and TTT is the temperature in tens, units, and tenths of a degree Celsius. When S_n is 0, TTT is positive or zero; when it is 1, it is negative; and when it is 9, a relative humidity value (UUU) follows. The group is always included when the data is available. When there is an instrument failure on an automated station, the unit either omits the group or transmits 1////.

2S_nT_dT_dT_d

Dewpoint, where S_n is the sign, and T_dT_dT_d is the dewpoint in tens, units, and tenths of a degree Celsius. When S_n is 0, T_dT_dT_d is positive or zero; when it is 1, it is negative; and when it is 9, a relative humidity value (UUU) follows. This group is always included when the data is available. When there is an instrument failure but relative humidity readings are available, and it cannot be converted reliably to a dewpoint reading, the group 29UUU is transmitted instead. UUU contains the relative humidity reading. When there is an instrument failure on an automated station, the unit either omits the group or transmits 2////.

3P₀P₀P₀P₀

Station pressure, in hundreds, tens, units, and tenths of millibars. A high-altitude station which cannot accurately compute (reduce) sea-level pressure will report station pressure (what the barometer is actually sensing at that high elevation).

(African, Asian, Southwest Pacific, European, and North American Regions: This group is reported when the actual height of the station is uncertain (except Europe), the station elevation is 500 meters or higher, or the station elevation is below 500 meters yet pressure cannot be reduced to mean sea level. In Laos, this group is reported by stations 48927 and 48935. In Germany, and Switzerland, this group is reported by all stations in addition to group 4PPPP.)

4PPPP

Sea-level pressure, in hundreds, tens, units, and tenths of millibars. Whenever air pressure at mean sea level can be computed with reasonable accuracy, the pressure is reported in this group. Reasonable accuracy only applies to stations in dense data regions which normally don't vary significantly from surrounding readings, but in sparse data regions, reasonable accuracy applies to any pressure reading which is reduced to sea level using an acceptable method.

A high-altitude station which cannot accurately compute (reduce) sea-level pressure will instead report geopotential height (the estimated pressure at a given height above sea level). The group 4a₃hhh is used instead, where a₃ contains the level chosen, and hhh is the pressure at that height. The codes for a₃ are as follows: 1, 1000 mb; 2, 925 mb; 5, 500 mb; 7, 700 mb; 8, 850 mb. The code hhh is the height of the standard isobaric surface given by a₃ in geopotential meters, omitting the thousands digit.

(African Region: 4PPPP is reported by stations with an elevation lower than 500 meters in Niger, 750 meters in Algeria and the Canary Islands, 800 meters in the Central African Republic, 760 geopotential meters in Madagascar.

Asian and Southwest Pacific Region: Stations between 800-2300 meters elevation report 4a₃hhh at 850 mb, between 2300-3700 meters at 700 mb, above 3700 meters at 500 mb, and between 500-800 meters 850 mb if sea level pressure cannot be accurately computed. However, code 4PPPP is reported for all stations with a barometer in Australia, with elevations lower than 1500 meters in China, and lower than 1000 meters in Russia.

European Region: In Germany, and Spain, 4PPPP is reported by stations with an elevation lower than or equal to 750 meters. Stations between 1000 and 2300 meters report 4a₃hhh at 850 mb, between 2300 and 3700 meters at 700 meters at 500 mb. Stations below 1000 meters which cannot accurately reduce the pressure to sea level will compute 4a₃hhh at 925 mb.)

5appp

3-hour pressure tendency, where A is a code and ppp is tens, units, and tenths of a millibar of change during the previous 3 hours. Samples are taken at least once per hour to determine the trend.

a - Coded trend characteristic, broken down as follows:

Code	Trend	Three-Hour Net Change
0	Increasing, then decreasing	Same or higher
1	Increasing then steady	Higher
1	Increasing, then increasing more slowly	Higher
2	Increasing, steadily or unsteadily	Higher
3	Decreasing or steady, then increasing	Higher
3	Increasing, then increasing more rapidly	Higher
4	Steady	Same
5	Decreasing, then increasing	Same or lower

6	Decreasing, then steady	Lower
6	Decreasing, then decreasing more slowly	Lower
7	Decreasing, steadily or unsteady	Lower
8	Steady or increasing, then decreasing	Lower
8	Decreasing, then decreasing more rapidly	Lower

When automated stations must compute a tendency based on only one or two samples, the station can only report 2 when the tendency is positive, 7 when it is negative, and 4 when it is the same.

(African Region: Stations between 20 degrees N and 20 degrees S do not report this group. Madagascar reports it, while Chad, Mali, Mauritania, and Niger do not. Reunion Island stations 61972, 61980, 61981, and 61984 use 58p₂₄p₂₄p₂₄ in place of this group.

(Asian Region: Countries predominantly in tropical latitudes, usually up to 30 degrees north, do not report this group.)

6RRRt_R

Precipitation data. RRR is precipitation in millimeters that has fallen during the period preceding the time of observation, as indicated by t_R. It is only included when precipitation occurred and was measured. If RRR is between 990 and 999 inclusive, then this indicates a small amount of precipitation, where the last digit identifies the precipitation in tenths of a millimeter (i.e. 0.1 to 0.9 mm).

The code t_R breaks down as follows:

Code	Precipitation preceding observation, going back . . .
1	6 hours
2	12 hours
3	18 hours
4	24 hours
5	1 hour
6	2 hours
7	3 hours
8	9 hours
9	15 hours

(African Region: Cote D'Ivoire, Guinea-Bissau, Mali, Niger, and Gabon reports this group only at 0600 and 1800 UTC. Madagascar covers the preceding 24 hours at 0600 UTC, the preceding 12 hours at 0300 and 1800 UTC, and the preceding 6 hours at other times. Malawi reports the group 6RRR/ at 0600 UTC only.)

(Asian Region: At 0000 and 1200 UTC, precipitation amounts during the 12-hour nighttime and daytime periods, respectively, are reported for RRR. China uses a period of 6 hours for t_R. Saudi Arabia uses a period of 12 hours for t_R. China and Iran report the group at 0000, 0600, 1200, and 1800 UTC. India and Sri Lanka report precipitation which has fallen since 0300 UTC, and encodes a solidus for t_R.)

(North American Region: This group is reported in Section 1 at 0000, 0600, 1200, and 1800 UTC, and a period of 6 hours is used for t_R. In Canada, stations that don't report every 6 hours will use a different t_R.)

(Southwestern Pacific Region: This group is reported in Section 1 at 0000, 0600, 1200, and 1800 UTC. RRR refers to a 24-hour amount in the 0000 UTC report, and to a 6-hour amount in the 0600, 1200, and 1800 UTC report. In Malaysia, this group is included in Section 1 when reported. In Australia, t_R indicates the duration of the period of reference for stations that do not make observations every 6 hours.)

(European Region: This group is included in Section 1 at the main standard times; and RRR will indicate the preceding 12 (preferably), or 6 hour amount. At 0600 at 1800 UTC, the precipitation amounts over the preceding 12 nighttime and daytime hours, respectively, will be reported for RRR. In Austria, Denmark, Germany, Ireland, Italy, Portugal, Spain, Syria, United Kingdom, and Cyprus, when reported, this group is included in Section 1. In Belgium, Hungary, and Greece, when reported, this group is included in Section 3.)

7wwW₁W₂

Weather phenomena, where ww is a two-digit code indicating present weather, and W₁ and W₂ are single-digit codes representing previous weather. This group is only included if present and/or past weather phenomena of significance were observed (weather not of significance is ww code 00, 01, 02, and 03, and W₁ and W₂ codes 0, 1, and 2).

If more than one form of weather is observed, the highest applicable code is selected (code 17 always has priority, though). Other weather may be reported in Section 3 of the synoptic observation using the group 960WW or 961WW, repeated as necessary.

The time period covered by x and y is 6 hours for 0000, 0600, 1200, and 1800 UTC observations, 3 hours for 0300, 0900, 1500, and 2100 UTC observations, and 2 hours for 2-hour intermediate observations. These codes give a complete description of the weather in the time interval specified. If the weather does not change over the time period, the same code may be reported for both x and y.

(African Region: Cote D'Ivoire, Gabon, Mali, Senegal, and Reunion Island codes ww as 05 only when horizontal visibility is less than 5 km. The Canary Islands encodes 05 when the visibility is less than 10 km and the relative humidity is less than 80 percent. Cote D'Ivoire, Mali, Senegal, and Gabon codes 10 only when horizontal visibility is 1 to 4.9 km. Libya codes ww as 37 only when the wind speed is more than 30 knots. Libya codes ww as 39 only when the horizontal visibility is less than 500 meters. Guinea-Bissau codes w_2 as a solidus when the period was not entirely covered by observations.)

(Asian Region: Yemen encodes 05 when the horizontal visibility is greater than 1.5 and relative humidity is less than 80 percent, and 06 or 07 when the horizontal visibility is between 1 and 5 km and the relative humidity is less than 70 percent, 09 when the horizontal visibility is less than 1.5 km; 10, 11, 12, and 28 when the horizontal visibility is less than 1 km; 30, 31, and 32 when the horizontal visibility is between 800 meters and 1.5 km; 33, 34, and 35 when the horizontal visibility is less than 800 meters.)

(Southwestern Pacific Region: In New Caledonia, the code ww is 05 only when haze reduces visibility to less than 5 km. In New Zealand, if more than one code figure is required to adequately describe the past weather, the code figure for W_1 describes the type of weather which occurred prior to that described by W_2 .)

(European Region:

In...

Coding of 05:

Austria	less than 8 km, RH less than 80%
Cyprus	less than 10 km, RH less than 80%
Spain	" "
Germany	1 and 8 km, RH less than 80%
Belgium	1 and 5 km, RH less than 80%
France	haze reduces visibility to less than 5 km

Coding of 06:

Cyprus	less than 10 km, RH less than 80%
Israel	less than 5 km, RH less than 70%

Coding of 07:

Cyprus	less than 10 km
Israel	1 to 5 km toward dust raised by wind
Syria	greater than 1 km

Coding of 09:

Cyprus	1 and 5 km
Israel	1 to 5 km toward dust raised by wind

Coding of 10:

Austria	1 to 8 km, RH 80% or more
Germany	" "
Belgium	1 and 5 km, RH 80% or more
Cyprus	1 to 10 km, RH 80% or more
Denmark	visibility due to mist is 1-9 km inclusive)

(In Cyprus, ww is coded 30, 31, or 32 only when the visibility is 200 meters or more and less than 1 km. In Cyprus, ww is coded 33, 34, or 35 only when the visibility is less than 200 meters. In Denmark, and Syria, ww is coded 30, 31, 32, 33, 34, or 35 only when visibility is less than 1 km. In Denmark, ww is coded 38 or 39 only when visibility is less than 10 km. In France, ww is encoded as 44 or 45 including when there is no appreciable change, or evolution could not be observed during the preceding hour. In Germany if no direct observations were available for the whole of the period covered by W_1 and W_2 , past weather is encoded if sufficient and reliable indications of the past weather during the covered period are available, otherwise it is encoded as a solidus. In Israel, ww is encoded 11, 12, 30 to 39, or 40 to 49 only when horizontal visibility is less than 1 km. In the United Kingdom, ww is coded 30, 31, or 32 when the visibility is 200 meters to less than 1 km, and 33, 34, or 35 only when visibility is less than 200 meters.)

8N_nC_LC_MC_H

Cloud phenomena, where N_n is the coded amount of the lowest cloud layer, and $C_L C_M C_H$ is the coded type of low, middle, and high cloud, respectively. The entire group is omitted when there are no clouds (when N in the second group is zero), when the sky is obscured by meteorological phenomena (when N in the second group is nine), or when the cloud cover is not discernable or the observation of the sky is not made (when N in the second group is "/").

Table 1. Present weather

WW — PRESENT WEATHER

00 - Previous conditions were unknown (cloud development not observed).	not at the time of observation. The visibility must have been less than 1 km. Never used when precipitation is being observed.	52 - Drizzle, moderate at the time of observation, not freezing, intermittent.
01 - Clouds have dissolved during the past hour.	29 - Thunderstorm with or without precipitation at the station during the preceding hour but not at the time of observation. Never used when precipitation is being observed.	53 - Drizzle, moderate at the time of observation, not freezing, continuous.
02 - Sky has been continuously clear or unchanging.	Precipitation is considered as observed only when it occurs at the spot where observations are normally taken.	54 - Drizzle, heavy at the time of observation, not freezing, intermittent.
03 - Clouds generally forming or developing.	30 - Slight or moderate duststorm or sandstorm, which has decreased during the previous hour.	55 - Drizzle, heavy at the time of observation, not freezing, continuous.
04 - Visibility reduced by smoke (e.g. veldt or forest fires, industrial smoke, or volcanic ashes).	31 - Slight or moderate duststorm or sandstorm, which has shown no appreciable change during the previous hour.	56 - Drizzle, slight, freezing.
05 - Haze.	32 - Slight or moderate duststorm or sandstorm, which has begun or has increased during the preceding hour.	57 - Drizzle, moderate or heavy, freezing.
06 - Widespread dust in suspension in the air, not raised by the wind at or near the station at the time of observation.	33 - Severe duststorm or sandstorm, which has decreased during the previous hour.	58 - Drizzle and rain, slight.
07 - Dust or sand raised by the wind at or near the station at the time of the observation, but no well-developed dust whirls or sand whirls and no duststorm or sandstorm seen; or, in the case of ships, blowing spray at the station. Specified by each country.	34 - Severe duststorm or sandstorm, which has shown no appreciable change during the previous hour.	59 - Drizzle and rain, moderate or heavy.
08 - Well-developed dust whirls or sand whirls seen at or near the station during the preceding hour or at the time of observation, but no duststorm or sandstorm.	35 - Severe duststorm or sandstorm, which has begun or has increased during the previous hour.	60 - Rain, slight at the time of observation, not freezing, intermittent.
09 - Duststorm or sandstorm within sight at the time of observation, or at the station during the preceding hour. Specified by each country.	36 - Slight or moderate drifting snow. Uniformity between codes 36-39 are obtained by means of national instructions.	61 - Rain, slight at the time of observation, not freezing, continuous.
10 - Mist. Only used when the visibility is 1 km or more and consists of water droplets or ice crystals.	37 - Heavy drifting snow. Uniformity between codes 36-39 are obtained by means of national instructions.	62 - Rain, moderate at the time of observation, not freezing, intermittent.
11 - Patches of shallow fog. Apparent visibility must be less than 1 km.	38 - Slight or moderate blowing snow. Uniformity between codes 36-39 are obtained by means of national instructions.	63 - Rain, moderate at the time of observation, not freezing, continuous.
12 - More or less continuous shallow fog. Apparent visibility must be less than 1 km.	39 - Heavy blowing snow. Uniformity between codes 36-39 are obtained by means of national instructions.	64 - Rain, heavy at the time of observation, not freezing, intermittent.
13 - Lightning visible, but no thunder heard.	40 - Fog or ice fog at a distance at the time of observation, but not at the station during the preceding hour, with the fog or ice fog extending to a level above that of the observer. The apparent visibility in the fog, ice fog patch, or bank must be less than 1 km, and restricted due to water droplets or ice crystals.	65 - Rain, heavy at the time of observation, not freezing, continuous.
14 - Precipitation within sight, but not reaching the ground or sea surface.	41 - Fog or ice fog in patches. The apparent visibility in the fog, ice fog patch, or bank must be less than 1 km, and restricted due to water droplets or ice crystals.	66 - Rain, slight, freezing.
15 - Precipitation within sight, reaching the ground or the sea surface but distant (more than 5 km away).	42 - Fog or ice fog, which has become thinner during the previous hour. The sky is visible. The visibility must be less than 1 km, and restricted due to water droplets or ice crystals.	67 - Rain, moderate or heavy, freezing.
16 - Precipitation within sight, reaching the ground or the sea surface, near to, but not at the station.	43 - Fog or ice fog, which has become thinner during the previous hour. The sky is invisible. The visibility must be less than 1 km, and restricted due to water droplets or ice crystals.	68 - Rain or drizzle and snow, slight.
17 - Thunderstorm, but no precipitation at the time of observation.	44 - Fog or ice fog, which has shown no appreciable change during the previous hour. The sky is visible. The visibility must be less than 1 km, and restricted due to water droplets or ice crystals.	69 - Rain or drizzle and snow, moderate or heavy.
18 - Wind squall, at or within sight of the station during the preceding hour or at the time of observation. A wind squall is when winds are measured, occurs when a sudden increase of winds of at least 8 m/s (16 knots) rises to 11 m/s (22 knots) and lasts for at least 1 minute. If the winds are estimated using the Beaufort scale, the wind must rise by at least 3 stages of the scale, reaching force 6 or more for at least 1 minute.	45 - Fog or ice fog, which has shown no appreciable change during the previous hour. The sky is invisible. The visibility must be less than 1 km, and restricted due to water droplets or ice crystals.	70 - Snow, slight at time of observation, intermittent.
19 - Funnel cloud, at (hopefully not!) or within sight of the station during the preceding hour or at the time of observation.	46 - Fog or ice fog, which has begun or has become thicker during the previous hour. The sky is visible. The visibility must be less than 1 km, and restricted due to water droplets or ice crystals.	71 - Snow, slight at time of observation, continuous.
20 - Drizzle at the station during the preceding hour but not at the time of observation. Never used when precipitation is being observed.	47 - Fog or ice fog, which has begun or has become thicker during the previous hour. The sky is invisible. The visibility must be less than 1 km, and restricted due to water droplets or ice crystals.	72 - Snow, moderate at time of observation, continuous.
21 - Rain at the station during the preceding hour but not at the time of observation. Never used when precipitation is being observed.	48 - Fog, depositing rime, and the sky is visible. The visibility must be less than 1 km, and restricted due to water droplets.	73 - Snow, heavy at time of observation, intermittent.
22 - Snow at the station during the preceding hour but not at the time of observation. Never used when precipitation is being observed.	49 - Fog, depositing rime, and the sky is invisible. The visibility must be less than 1 km, and restricted due to water droplets.	74 - Snow, heavy at time of observation, continuous.
23 - Rain and snow or ice pellets at the station during the preceding hour but not at the time of observation. Never used when precipitation is being observed.	50 - Drizzle, slight at the time of observation, not freezing, intermittent.	75 - Snow, heavy at time of observation, continuous.
24 - Freezing drizzle or freezing rain at the station during the preceding hour but not at the time of observation. Never used when precipitation is being observed.	51 - Drizzle, slight at the time of observation, not freezing, continuous.	76 - Diamond dust (with or without fog)
25 - Showers of rain at the station during the preceding hour but not at the time of observation. Never used when precipitation is being observed.		77 - Snow grains (with or without fog)
26 - Showers of snow, or of rain and snow, at the station during the preceding hour but not at the time of observation. Never used when precipitation is being observed.		78 - Isolated star-like snow crystals (with or without fog)
27 - Showers of hail, or of rain and hail, at the station during the preceding hour but not at the time of observation. Never used when precipitation is being observed.		79 - Ice pellets
28 - Fog or ice fog at the station during the preceding hour but		80 - Rain shower, slight.
		81 - Rain shower, moderate or heavy.
		82 - Rain shower, violent.
		83 - Showers of rain and snow mixed, slight.
		84 - Showers of rain and snow mixed, moderate or heavy.
		85 - Snow showers, slight.
		86 - Snow showers, moderate or heavy.
		87 - Showers of snow pellets or small hail, slight, with or without rain or snow.
		88 - Showers of snow pellets or small hail, moderate or heavy, with or without rain or snow.
		89 - Showers of hail, slight, with or without rain or snow, not associated with thunder.
		90 - Showers of hail, moderate or heavy, with or without rain or snow, not associated with thunder.
		91 - Thunderstorm during previous hour, light rain at time of observation.
		92 - Thunderstorm during previous hour, moderate or heavy rain at time of observation.
		93 - Thunderstorm during previous hour, slight snow, or rain and snow mixed or hail, at time of observation.
		94 - Thunderstorm during previous hour, moderate or heavy snow, or rain and snow mixed or hail at time of observation.
		95 - Thunderstorm, slight or moderate, without hail, but with rain and/or snow.
		96 - Thunderstorm, slight or moderate, with hail.
		97 - Thunderstorm, heavy, without hail, but with rain and/or snow.
		98 - Thunderstorm, with duststorm or sandstorm. The observer is allowed considerable leeway in determining whether precipitation is occurring or not, even if it is not visible.
		99 - Thunderstorm, heavy, with hail.

N_h - If there are low clouds, then the total amount of all low clouds is reported. If there are no low clouds but there are middle clouds, then the total amount of middle clouds is reported for N_h . If there are only high clouds, then N_h is encoded as zero. Contrails are included in N_h if they were part of N in the second group. If the clouds are observed through fog or other phenomena, the group is treated as if the ground-based phenomena was not present.

C_L - Low cloud type.

Code	Cloud
1	Cumulus, fair weather, little vertical development.
2	Cumulus with vertical development.
3	Cumulonimbus, with no fibrous top.
4	Stratocumulus, originating from spreading of cumulus.
5	Stratocumulus.
6	Stratus, of good (non-precipitating) weather.
7	Stratus, of bad weather (pannus, fractus, etc).
8	Stratocumulus and cumulus, bases at different levels.
9	Cumulonimbus, with a fibrous top.

C_M - Middle cloud type.

Code	Cloud
1	Altostratus, thin.
2	Altostratus, thick, or nimbostratus.
3	Altostratus.
4	Altostratus, lenticular in appearance or orographic.
5	Altostratus, progressively invading the sky.
6	Altostratus.
7	Altostratus.
8	Altostratus castellanus (turreted).
9	Altostratus of a chaotic sky, bases at many different levels.

C_H - High cloud type.

Code	Cloud
1	Cirrus, not progressively invading the sky.
2	Cirrus, thick or dense not progressively invading sky.
3	Cirrus, originating from cumulonimbus.
4	Cirrostratus, progressively invading the sky.
5	Cirrostratus, invading sky, <45 degrees above horizon.
6	Cirrostratus, invading sky, >45 degrees above horizon.
7	Cirrostratus, covering sky in a veil.
8	Cirrostratus, not progressively invading the sky.
9	Cirrocumulus.

(In Canada, N_h and C_L are reported when the sky is completely obscured and clouds are observed below the height of vertical visibility).

9GGgg

This group is only included when the actual time of observation differs by more than 10 minutes from the standard time, or when additionally specified by regional decision.

GGgg is the time of the observation, in hours and minutes UTC (Universal Coordinated Time, also known as Zulu and Greenwich Mean Time).

1.3.3. Section 2 - Maritime data

222D_sv_s

Ship movement and average speed.

D_s - Ship movement. Direction of resultant displacement of ship during the 3 hours preceding the time of observation, relative to true north.

0	Stationary
1	Northeast
2	East
3	Southeast
4	South
5	Southwest
6	West

- 7 Northwest
- 8 North
- 9 Unknown

/ Indicates a coastal land station which reports maritime conditions.

v_s - Ship's average speed during the 3 hours preceding the time of observation.

<u>Code</u>	<u>Knots</u>	<u>km/h</u>
0	0	0
1	1-5	1-10
2	6-10	11-19
3	11-15	20-28
4	16-20	29-37
5	21-25	38-47
6	26-30	48-56
7	31-35	57-65
8	36-40	66-75
9	Over 40	Over 75
/	Not applicable (coastal station) or not reported	

0s_nT_wT_wT_w

Sea-surface temperature, where S_n is the sign, and $T_w T_w T_w$ is the dewpoint in tens, units, and tenths of a degree Celsius. When S_n is 0, $T_w T_w T_w$ is positive or zero; when it is 1, it is negative.

1P_{wa}P_{wa}H_{wa}H_{wa}

Period of waves. When the sea is calm (no waves and no swell), the data is reported as "0000". When estimation is impossible due to a confused sea, or data is unavailable, the data is reported as "////". $P_{wa} P_{wa}$ is the period of waves, in tenths of a second, obtained by instrumental methods. The period of the wave is the time between the passage of two successive wave crests past a fixed point (equal to wave length divided by wave speed). $H_{wa} H_{wa}$ is the height of waves, obtained by instrumental methods, in units of 0.5 meters.

2P_wP_wH_wH_w

Period and height of wind waves. If there is a swell and no wind waves, this group is not reported. $P_w P_w$ is the period of wind waves, in whole seconds. $H_w H_w$ is the height of wind waves, in units of 0.5 meters.

(African Region: Lightships and coastal stations able to observe wind waves will include this group in their reports.)

3d_{w1}d_{w1}d_{w2}d_{w2}

Direction of swell waves. This group is used only when swell waves can be distinguished from wind waves. If only one system of swell waves are observed, $d_{w2} d_{w2}$ is reported as "/". Both $d_{w1} d_{w1}$ and $d_{w2} d_{w2}$ indicate the direction from which swell waves are coming, relative to true north, in tens of degrees.

(African Region: Lightships and coastal stations able to observe one system of swell waves will include this group in their reports.)

4P_{w1}P_{w1}H_{w1}H_{w1}

Period and height of swell waves. This group is used only when swell waves can be distinguished from wind waves. $P_{w1} P_{w1}$ is the period of swell waves, in seconds, and $H_{w1} H_{w1}$ is the height of swell waves, in units of 0.5 meters.

5P_{w2}P_{w2}H_{w2}H_{w2}

Period and height of well waves. This group is used only when swell waves can be distinguished from wind waves. $P_{w2} P_{w2}$ is the period of swell waves, in seconds. $H_{w2} H_{w2}$ is the height of swell waves, in units of 0.5 meters.

6I_sE_sE_sR_s

Ice accretion data.

I_s - Ice accretion on ships.

<u>Code</u>	<u>Source of ice</u>
1	Icing from ocean spray
2	Icing from fog
3	Icing from spray and fog
4	Icing from rain
5	Icing from spray and rain

$E_s E_s$ - Thickness of ice accretion on ships, in centimeters.

R_s - Rate of ice accretion on ships.

<u>Code</u>	<u>Rate</u>
-------------	-------------

- | | |
|---|------------------------------------|
| 0 | Ice not building up |
| 1 | Ice building up slowly |
| 2 | Ice building up rapidly |
| 3 | Ice melting or breaking up slowly |
| 4 | Ice melting or breaking up rapidly |

70H_{wa} H_{wa} H_{wa}

Height of waves, obtained by instrumental methods, in units of 0.1 meters. This group is reported in addition to the 1PwaPwaHwaHwa when the station has the capability of accurately measuring instrumental wave height in units of 0.1 meters.

(ICE+c_iS_ib_iD_iz_i)

This group is reported whenever sea ice and/or ice of land origin is observed from the ship's position, unless the ship has to report ice conditions using a special sea-ice code. If the ship is in the open sea reporting an ice edge, the concentration and stage of development are reported only if the ship is close to the ice (i.e. within 0.5 nm). If no sea ice is seen and the group is used to report ice of land origin only, Si and Di are reported as a solidus ("/").

C_i - Concentration or arrangement of sea ice.

S_i - Stage of development.

- | Code | Stage |
|------|---|
| 0 | New ice only (frazil ice, grease ice, slush, shugs) |
| 1 | Nilas or ice rind, less than 10 cm thick |
| 2 | Young ice (gray ice, gray-white ice), 10-30 cm thick |
| 3 | Predominantly new and/or young ice with some first-year ice |
| 4 | Predominantly thin first-year ice with some new and/or young ice |
| 5 | All thin first-year ice (30-70 cm thick) |
| 6 | Predominantly medium first-year ice(70-120 cm thick) and thick first year ice (greater than 120 cm thick) with some thinner (younger) first-year ice |
| 7 | All medium and thick first-year ice |
| 8 | Predominantly medium and thick first-year ice with some old ice (usually more than 2 meters thick) |
| 9 | Predominantly old ice |
| / | Unable to report, because of darkness, lack of visibility, or because only ice of land origin is visible or because ship is more than 0.5 nm away from ice edge |

b_i - Ice of land origin. Growlers and bergy bits are much smaller and lower in the water than icebergs, and are more difficult to see either by eye or radar.

- | Code | Ice |
|------|---|
| 0 | No ice of land origin |
| 1 | 1-5 icebergs, no growlers or bergy bits |
| 2 | 6-10 icebergs, no growlers or bergy bits |
| 3 | 11-20 icebergs, no growlers or bergy bits |
| 4 | Up to and including 10 growlers and bergy bits (no icebergs) |
| 5 | More than 10 growlers and bergy bits (no icebergs) |
| 6 | 1-5 icebergs, with growlers and bergy bits |
| 7 | 6-10 icebergs, with growlers and bergy bits |
| 8 | 11-20 icebergs, with growlers and bergy bits |
| 9 | More than 20 icebergs, with growlers and bergy bits (a major hazard to navigation) |
| / | Unable to report, because of darkness, lack of visibility, or because only sea ice is visible |

D_i - True bearing of principal ice edge. If more than one ice edge can be stated, the nearest or most important one is reported.

- | | |
|---|---|
| 0 | Ship in shore or flaw lead |
| 1 | Northeast |
| 2 | East |
| 3 | Southeast |
| 4 | South |
| 5 | Southwest |
| 6 | West |
| 7 | Northwest |
| 8 | North |
| 9 | Not determined (ship in ice) |
| / | Unable to report because of darkness, lack of visibility, or because only ice of land origin is visible |

z_i - Present ice situation and trend of conditions over past 3 hours.

- | | |
|---|--|
| 0 | Ship in open water with floating ice in sight |
| 1 | Ship in easily-penetrable ice; conditions improving |
| 2 | Ship in easily-penetrable ice; conditions not changing |

- 3 Ship in easily-penetrable ice; conditions worsening
- 4 Ship in ice difficult to penetrate; conditions improving
- 5 Ship in ice difficult to penetrate; conditions not changing
- 6 Ice forming and floes freezing together, and ship in ice difficult to penetrate and conditions worsening
- 7 Ice under slight pressure, and ship is in ice difficult to penetrate, and conditions worsening
- 8 Ice under moderate or severe pressure, and ship is in ice difficult to penetrate, and conditions worsening
- 9 Ship beset in ice difficult to penetrate, and conditions worsening
- / Unable to report because of darkness or lack of visibility

1.3.4. Section 3 - Regional supplementary data

This group is identified using 333, except in China, which uses 333//.

(North American Region: When a tornado is observed at or within sight of the station during the preceding hour or at the time of the observation, the word TORNADO will be added at the end of Section 3. When, due to a hurricane or tropical storm, the maximum one-minute wind average wind speed between two times of observation exceeds 34 knots, the value of this figure shall be included, together with the time of its occurrence, in the following form at the end of Section 3: ONE-MINUTE MAXIMUM [value] KNOTS AT [hour minute] UTC. In case more than one additional group is added at the end of Section 3, they will be separated by a solidus.)

(0 . . .)

The symbolic form for this group is developed regionally.

(African Region: This group will be used in the form of $0T_gT_gR_iR_i$ at 0600 UTC to meet requirements of agrometeorological monitoring in the region. At 0000 and 1200 UTC, the group $0//R_iR_i$ may be used at the discretion of each region. Malawi reports the group $0T_gT_g//$ only at 0600 UTC from May 1 to September 30.)

(North American Region: The group is used by stations in the southern region below 1000 meters elevation within 500 km of the shore, during the part of the year in which tropical weather is observed, in the form of $0C_sD_LD_MD_H$ [see instructions for the $56D_LD_MD_H$ group below].)

(Southwestern Pacific Region: Regional regulations have not yet been developed.)

(1s_nT_xT_xT_x)

Maximum temperature, where S_n is the sign, and $T_xT_xT_x$ is the maximum temperature in tens, units, and tenths of a degree Celsius. When S_n is 0, $T_xT_xT_x$ is positive or zero; when it is 1, it is negative. The time period is decided regionally.

(African and European Region: Used at 1800 UTC (and at 0600 UTC in Europe) to report the maximum daytime temperature of the previous 12 hours. In Madagascar, used to report the maximum temperature read at 1400 UTC and transmitted at 1500 UTC and 0600 UTC the next day.)

(Asian Region: Used to report the maximum daytime temperature of the preceding 12 hours, except in China where 24 hours is covered. Afghanistan, Burma, North Korea, Hong Kong, India, Japan, South Korea reports the group at 1200 UTC. Bangladesh reports the group at 1200 or 1500 UTC. Iran reports the group at 1500 UTC. Bahrain, China, Kuwait, Saudi Arabia, Yemen reports the group at 1800 UTC. Russia reports the group at 20 hours local zone time.)

(North American Region: Used at 0000 and 1800 UTC to cover the past 12 hours, at 0600 UTC to cover the previous 24 hours, and at 1200 UTC to cover the previous calendar day.)

(Southwestern Pacific Region: Reported at 1200 UTC to cover the previous 24 hours.)

(2s_nT_nT_nT_n)

Minimum temperature, where S_n is the sign, and $T_nT_nT_n$ is the minimum temperature in tens, units, and tenths of a degree Celsius. When S_n is 0, $T_nT_nT_n$ is positive or zero; when it is 1, it is negative. The time period is decided regionally.

(African and European Region: Used at 0600 UTC to report the minimum nighttime temperature of the previous 12 hours. In Madagascar, used to report the minimum temperature read at 0400 UTC.)

(Asian Region: Used to report the minimum nighttime temperature of the preceding 12 hours., except in China where 24 hours is covered. Afghanistan, Burma, North Korea, Hong Kong, India, Japan, South Korea, and Vietnam report the group at 0000 UTC. Bangladesh reports the group at 0000 or 0300 UTC. Iran reports the group at 0300 UTC. Bahrain,

China, Kuwait, Saudi Arabia, Yemen report the group at 0600 UTC. Russia reports the group at 08 hours local zone time.)

(North American Region: Used at 0000 UTC to cover the previous 18 hours, at 0600 and 1800 UTC to cover the previous 24 hours, and at 1200 UTC to cover the previous 12 hours.)

(Southwestern Pacific Region: Reported at 0000 UTC to cover the previous 24 hours.)

(3Ejjj)

Used to report the state of the ground.

E - State of the ground without snow or measurable ice cover. The codes for numbers 0, 1, 2, and 4 apply to representative bare ground, and the other codes apply to an open representative area. In all instances, the highest code figure applicable is reported.

- | | |
|---|--|
| 0 | Surface of ground dry (without cracks, no dust/loose sand) |
| 1 | Surface of ground moist |
| 2 | Surface of ground wet (standing water) |
| 3 | Flooded |
| 4 | Surface of ground frozen |
| 5 | Glaze on ground |
| 6 | Loose dry dust or sand not covering ground completely |
| 7 | Thin cover of loose dry dust or sand covering ground completely |
| 8 | Moderate or thick cover of loose dry dust or sand covering ground completely |
| 9 | Extremely dry with cracks |

jjj - Supplementary information to be developed regionally.

(African Region: This group is not used.)

Asian and European Region: This group is in the form $3E_s T_g T_g$. In Europe, the observation of these elements are made at 0600 UTC. If ice or snow is observed, E will instead be a solidus. In Germany, if ice and/or snow is observed and at the same time glaze on the ground is occurring (E=5), this group is reported in addition to the group 4E'sss in the form $35s_n T_g T_g$ at 0600 UTC, and 35/// at 1800 UTC. In Switzerland, this group is reported in the following form: 3E/// at 0600 UTC, and 3/S_n T_g T_g at 0900 UTC, with T_g T_g being measured at 0900 UTC.)

(4E'sss)

This group will include snow, ice, and all other forms of solid precipitation on the ground at the time of observation. When the depth is not uniform, the average depth over a representative area is reported.

E' - State of the ground with snow or measurable ice cover. These apply to an open representative area. Whenever a reference is made to ice, it also includes solid precipitation other than snow. In all instances, the highest code figures applicable are reported.

- | | |
|---|--|
| 0 | Ground predominantly covered by ice |
| 1 | Compact or wet snow (with or without ice) covering less than one-half of the ground |
| 2 | Compact or wet snow (with or without ice) covering at least one-half the ground, but ground not completely covered |
| 3 | Even layer of compact or wet snow covering ground completely |
| 4 | Uneven layer of compact or wet snow covering ground completely |
| 5 | Loose, dry snow covering less than one-half of the ground |
| 6 | Loose, dry snow covering at least one-half the ground, but not completely |
| 7 | Even layer of loose, dry snow, covering ground completely |
| 8 | Uneven layer of loose, dry snow, covering ground completely |
| 9 | Snow covering ground completely; deep drifts |

sss - Total depth of snow in centimeters. If the value is 997, it indicates less than 0.5 cm. If it is 998, the snow cover is present but not continuous. If it is 999, measurement is impossible or inaccurate.

(African Region: All stations capable of reporting will to so at least once daily at either 0600 or 1200 UTC.)

(Asian and European Region: This group is only reported if there is ground snow or ice cover, and sss also includes the thickness of ice cover. In Denmark, and Portugal, this group is included in 0600 UTC reports. In France, this group is included at 0600 and 1800 UTC when there is snow on the ground. In the United Kingdom, when the ground representative of the station is more than half-covered with snow or ice (E' = other than 1 or 5), sss is reported as 001 to 997 or 999 as appropriate, and if the ground representative of the station is less than half-covered with snow or ice (E' = 1 or 5), sss is reported as 998.)

(North American Region: Reported by all stations capable of doing so at either 0600 or 1200 UTC.)

(Southwestern Pacific Region: Reported by all stations capable of doing so, at either 0000 or 1800 UTC, whenever data are available.)

(5EEEi_E)

Evaporation or evapotranspiration, in tenths of millimeters, during the preceding 24 hours. The figure i_E is the indicator for the type of instrumentation for evaporation measurement or type of crop for which evapotranspiration is reported. If the first digit of E is 4, 5, 6, 7, 8, or 9, then this data group represents other data (see the following breakdowns).

(African and European Region: These groups are included at 0600 UTC by all stations capable of doing so. This includes Mozambique, which disseminates EEE for the period of 24 hours of the day before the previous day, observed at 0700 UTC of the preceding day.)

(Southwestern Pacific Region: Included by all stations capable of doing so, at least once a day at either 0000, 0600, or 1200 UTC, whenever data are available.)

(54g_os_nd_T)

Temperature change data indicator. For this group to be reported, the change must equal or exceed 5 degrees Celsius and occur in less than 30 minutes during the period covered by W₁W₂.

g_o - Period of time, in hours, of the time of the temperature change, in whole hours.

s_n - Sign of the data (0 is positive, 1 is negative).

d_T - Amount of temperature change.

Code	Change
0	10 Celsius degrees
1	11
2	12
3	13
4	14 or more
5	5
6	6
7	7
8	8
9	9

(55SSS) ((j₅F₂₄F₂₄F₂₄F₂₄))

Sunshine data.

SSS - Duration of sunshine, in hours and tenths of an hour.

If the first digit of SSS is 3, then the remainder describes the duration of sunshine during the past hour, in tenths of an hour, and the following data is reported as a second group.

j₅ - Indicator for radiation type being reported. Net short-wave radiation and direct solar radiation coding procedures have not yet been finalized.

Code	Radiation
0	Positive net radiation
1	Negative net radiation
2	Global solar radiation
3	Diffused solar radiation
4	Downward long-wave radiation
5	Upward long-wave radiation
6	Short-wave radiation

F₂₄F₂₄F₂₄F₂₄ - Absolute value of solar or terrestrial radiation, as appropriate, in J/cm, during the preceding 24 hours at either 0000, 0600, 1200, or 1800 UTC (Universal Coordinated Time).

(Southwestern Pacific Region: Included by all stations capable of doing so, at least once a day at either 0000, 0600, or 1200 UTC, whenever data are available.)

(European Region: Included by all stations carrying out the corresponding measurements.)

(56D_LD_MD_H)

Cloud drift.

D_LD_MD_H - True direction from which low, middle, and high clouds are blowing, respectively.

0	Stationary or no clouds
1	Northeast
2	East

3	Southeast
4	South
5	Southwest
6	West
7	Northwest
8	North
9	Unknown or clouds invisible

(Southwestern Pacific Region: Used to report direction of cloud drift as observed from a land or fixed ship station.)

(57CD_ae_c)

Direction and elevation of cloud.

C - Genus of cloud.

Code	Cloud
0	Cirrus
1	Cirrocumulus
2	Cirrostratus
3	Alto cumulus
4	Altostratus
5	Nimbostratus
6	Stratocumulus
7	Stratus
8	Cumulus
9	Cumulonimbus
/	Cloud not visible, due to darkness, fog, duststorm, etc.

D_a - True direction in which orographic clouds or clouds with vertical development are seen.

Code	Direction
0	Over the station
1	Northeast
2	East
3	Southeast
4	South
5	Southwest
6	West
7	Northwest
8	North
9	All directions

e_c - Elevation angle of the top of the cloud indicated by C. At a distance of 30 cm (about a foot) from your eye, the span formed by your thumb and forefinger outstretched is about 30 degrees. The total length of your forefinger is about 15 degrees. The length of the top of your forefinger is about 9 degrees. The breadth of 2 fingers is about 6 degrees.

Code	Elevation
0	Tops of cloud not visible
1	45 degrees or more
2	About 30 degrees
3	About 20 degrees
4	About 15 degrees
5	About 12 degrees
6	About 9 degrees
7	About 7 degrees
8	About 6 degrees
9	Less than 5 degrees

(58P₂₄P₂₄P₂₄)

(59P₂₄P₂₄P₂₄)

The group 58P₂₄P₂₄P₂₄ is reported for a positive or zero pressure change, and 59P₂₄P₂₄P₂₄ for a negative change. P₂₄P₂₄P₂₄ is the amount of pressure change during the last 24 hours, in tens, units, and tenths of a millibar.

(African and Asian Region: This is reported by tropical stations which do not report the 5appp group.)

(Southwestern Pacific Region: Included in 0000 or 1200 UTC reports only to report the variation of pressure during the preceding 24 hours.)

(6RRRt_r)

Precipitation data.

RRR - Precipitation in millimeters that has fallen during the period preceding the time of observation, as indicated by t_R . It is only included when precipitation occurred and was measured. If RRR is between 990 and 999 inclusive, then this indicates a small amount of precipitation, where the last digit identifies the precipitation in tenths of a millimeter (i.e. 0.1 to 0.9 mm).

t_R - Period of reference, which breaks down as follows:

Code	Precipitation preceding observation, going back:
1	6 hours
2	12 hours
3	18 hours
4	24 hours
5	1 hour
6	2 hours
7	3 hours
8	9 hours
9	15 hours

(African Region: This group is included at 0300, 0900, 1500, and 2100 UTC. The amount of precipitation during the 3-hour period preceding the observation is reported.)

(North American Region: This group is included every 3 hours and covers the amount of precipitation during the 3-hour period preceding the observation.)

(Southwestern Pacific Region: Included in Section 3 at least at the intermediate standard times, and the main standard times, as required. RRR will indicate the amount of precipitation during the 3 hour period preceding the time of observation, or during other periods required for regional exchange.)

(European Region: Included in Section 3 when the precipitation amount for 3 hours or other periods required for national exchange is reported for RRRR. It is used at both main and intermediate observation times.)

(7R₂₄R₂₄R₂₄R₂₄)

Total amount of precipitation during the 24-hour period ending at the time of the observation, in tenths of a millimeter.

(Southwestern Pacific Region: Regional regulations have not yet been developed.)

(European Region: Used for reporting daily precipitation amount, according to national decision. At 0600 UTC, the period of reference shall equal the sum of the periods t_R for which precipitation amounts were reported in groups 6RRRR t_R in Section 1 of the 0600 UTC report and the preceding 1800 UTC report.)

(8N_sCh_sh_s)

This group is used repeatedly to describe the different layers of cloud present, in ascending order. It never exceeds three repetitions, however, cumulonimbus cloud groups can be added to these three.

N_s - Amount of the individual cloud layer or mass, whose genus is indicated by C, in oktas. If it is encoded as zero, this may indicate that the height refers to a cloud top (see international remarks below).

C - Genus of cloud.

Code	Cloud
0	Cirrus
1	Cirrocumulus
2	Cirrostratus
3	Alto cumulus
4	Altostratus
5	Nimbostratus
6	Stratocumulus
7	Stratus
8	Cumulus
9	Cumulonimbus
/	Cloud not visible, due to darkness, fog, duststorm, etc.

h_sh_s - Height above ground level of the cloud base or mass whose genus is indicated by C. This height is in hundreds of feet. If the number is 56-80, subtract 50 to get the height in thousands of feet (i.e. 56-80 is 6000 to 30,000 feet). If the number is greater than 80, see the table below. If the cloud code C is 9, this implies an obscured condition, and this value indicates the vertical visibility into the obscuring phenomena.

Code	Height
81	35,000 feet

82	40,000 feet
83	45,000 feet
84	50,000 feet
85	55,000 feet
86	60,000 feet
87	65,000 feet
88	70,000 feet
89	greater than 70,000 feet
90	Less than 50 meters
91	50 to 100 m
92	100 to 200 m
93	200 to 300 m
94	300 to 600 m
95	600 to 1000 m
96	1000 to 1500 m
97	1500 to 2000 m
98	2000 to 2500 m
99	2500 m or more, or no clouds

(North American Region: In Canada, cloud amounts reported in second and subsequent groups are summation amounts.)

(Southwestern Pacific Region: This group shall be included in the report in accordance with international specifications. The group may be used to report additional information on the height of the top of a cloud, in which case N_s is zero.)

(European Region: The inclusion of this group is left to national decision. In Denmark, Portugal, and Hungary, this group is included. In the United Kingdom, it is omitted when the sky is obscured and the vertical visibility cannot be estimated.)

(9S_pS_ps_ps_p)

Supplementary information left to regional decision.

(African Region: Algeria, Canary Islands use Region VI procedures for this group.)

(North American Region: This group will become 909R_d, listed below, on every occasion that the rainfall group 6RRR_t is reported in Section 1, in Antigua, Barbados, Belize, British Caribbean Territories, Dominica, Grenada, Guyana, Jamaica, St. Lucia, St. Vincent, Trinidad, and Tobago.)

(Southwestern Pacific Region: This group may be included by all stations capable of doing so, when appropriate. When there is a requirement to give information on certain special phenomena occurring at the time of observation, or on phenomena which have occurred during the period covered by W_1W_2 , this group shall be used. The inclusion of this group shall be left to national decision. This group is used in reports from automatic stations 91750 and 91574, used in the form 911f_xf_x indicating maximum peak winds, in knots, during the preceding 3 hours.)

(909R_d)

Precipitation character.

R_t - Time at which precipitation given by RRR began or ended. When precipitation is occurring at the time of observation or has ended during the hour preceding the observation, the time reported is the "time precipitation began". When precipitation is not occurring at the time of observation and has not occurred in the hour preceding the observation, the time reported is the "time precipitation ended". When two or more periods of precipitation occur during the period covered by W_1W_2 , the time (beginning or ending) of the last period of precipitation is reported.

Code	Precipitation began or ended...
1	Less than 1 hour before time of observation
2	1 to 2 hours before time of observation
3	2 to 3 hours before time of observation
4	3 to 4 hours before time of observation
5	4 to 5 hours before time of observation
6	5 to 6 hours before time of observation
7	6 to 12 hours before time of observation
8	More than 12 hours before time of observation
9	Unknown

d_c - Duration and character of precipitation given by RRR. If only one period of precipitation has occurred during the period covered by W_1W_2 , the duration is defined as the time elapsed from the beginning (a) until the end of the period of

precipitation. If precipitation is not occurring at the time of observation, or (b) until the time of observation, if precipitation is occurring at the time of observation.

If two or more periods of precipitation have occurred during the period covered by W_1W_2 , the duration of precipitation is defined as the time elapsed from the beginning of the first period of precipitation, all or part of which occurred during the period covered by W_1W_2 , (a) until the end of the last period of precipitation, if precipitation is not occurring at the time of observation, or (b) until the time of observation, if precipitation is occurring at the time of observation.

<u>Code</u>	<u>Description</u>	<u>Periods of precipitation during period covered by W_1W_2</u>
0	Lasted less than 1 hour	1
1	Lasted 1-3 hours	1
2	Lasted 3-6 hours	1
3	Lasted more than 6 hours	1
4	Lasted less than 1 hour	2 or more
5	Lasted 1-3 hours	2 or more
6	Lasted 3-6 hours	2 or more
7	Lasted more than 6 hours	2 or more
9	Unknown	Unknown

910ff 911ff

(*European Region*) Highest gust, at the observation time (i.e. during the 10-minute period immediately preceding it), in which case 910ff is used, or between observation times, in which case 911ff is used. (*In the Netherlands, this group is used in the following forms: 911ff and 912ff. Groups 911ff and 912ff are reported by land stations if ff exceeds 25 knots. They are always reported by sea stations.*)

918s_q D_p

(*European Region*) Nature and/or type of squall (s_q) and direction from which it approaches the station (D_p), between observation times.

s_q - Nature and/or type of squall.

D_p - True direction from which the indicated phenomenon is coming.

<u>Code</u>	<u>Direction</u>
1	Northeast
2	East
3	Southeast
4	South
5	Southwest
6	West
7	Northwest
8	North

919MwDa

(*European Region*) Nature and/or type of waterspouts, tornadoes, whirlwinds, dust devils (Mw), and direction from which they approach the station (Da), between observation times.

Mw - Character of whirl. Code table missing.

Da - True direction in which the indicated phenomenon is observed.

<u>Code</u>	<u>Direction</u>
0	At the station
1	Northeast
2	East
3	Southeast
4	South
5	Southwest
6	West
7	Northwest
8	North
9	All directions

9298S₈ 9299S₈

(*European Region*) Drifting and blowing snow, sky invisible, impossible to determine whether snow is falling or not, at observation time or between times. If the phenomenon is slight or moderate, the 9298 code is used, and if heavy, the 9299 code is used. Code table missing.

931ss

(Austria) Used to report at 0600 UTC the depth of fresh snow fallen during the preceding 24 hours. Code table missing. 00 and 91 to 96 are not used, while 97 indicates less than 5 mm.

932RR

(European Region) Maximum diameter of hailstones, at observation time or between times. Code table missing.

934RR

(European Region) Glaze at observation time or between times. Code table missing.

935RR

(European Region) Rime at observation time or between times. Code table missing.

936RR

(European Region) Compound deposits at observation time or between times. Code table missing.

937RR

(European Region) Wet snow deposits at observation time or between times. Code table missing.

943C_LD_p

Used by the African region by stations in the southwest Indian Ocean lying between latitudes 0 and 40 degrees south and between longitudes 30 and 80 degrees east during tropical cyclone season. Used only at station 67693 in Malawi.

C_L - Type of low cloud.

Code	Cloud
1	Cumulus, fair wx, little vertical development.
2	Cumulus with vertical development.
3	Cumulonimbus, with no fibrous top.
4	Stratocumulus, from the spreading of cumulus.
5	Stratocumulus.
6	Stratus, of good (non-precipitating) weather.
7	Stratus, of bad weather (pannus, fractus, etc).
8	Stratocumulus and cumulus, bases at different levels.
9	Cumulonimbus, with a fibrous top.

D_p - True direction from which the low clouds are coming from.

Code	Direction of origin
0	Stationary or no clouds
1	Northeast
2	East
3	Southeast
4	South
5	Southwest
6	West
7	Northwest
8	North
9	Unknown or clouds invisible

96119

(European Region) A destructive tornado cloud is at or within sight of the weather station, at the time of the observation or during the preceding hour.

(80000 (0) (1))

80000 - Additional data in regional code follow.

(Southwestern Pacific Region: Regional regulations have not yet been developed.)

80000 0L_nL_cL_dL_g 1s_Ld_Lv_e

(African Region) Used to enable the reporting of locust control observations, and will be included by all stations.

0L_nL_cL_dL_g contains the acridian name, color, stage of development of the swarms or bands of locusts, and their organizational state. 1s_Ld_Lv_e contains information on the size, density of the swarms or bands, their direction of motion, and the extent of vegetation.

1.3.5. Section 4 - Mountaintop station data

This section is omitted if the station is in almost continuous cloud.

(In Germany, this section is used only to report clouds with tops at or below station level).

N'C'H'H'C_t

Cloud description. Rapidly dissipating condensation trails are not reported.

N' - Amount of cloud whose base is below the level of the station, in oktas (eighths). Spaces occupied by mountains protruding from clouds are considered as occupied by cloud.

C' - Genus of cloud whose base is below the level of the station.

<u>Code</u>	<u>Cloud type</u>
0	Cirrus
1	Cirrocumulus
2	Cirrostratus
3	Alto cumulus
4	Altostratus
5	Nimbostratus
6	Stratocumulus
7	Stratus
8	Cumulus
9	Cumulonimbus
/	Cloud not visible, due to darkness, fog, duststorm, etc.

H'H' - Altitude of the upper surface of clouds described in C', in hundreds of meters. If the value is 99, the upper surface of the clouds is at an altitude of 9900 meters or higher.

C_t - Description of the top of the cloud whose base is below the level of the station.

<u>Code</u>	<u>Cloud type</u>
0	Isolated cloud or fragments of cloud
1	Continuous cloud, flat tops
2	Broken cloud, small breaks, flat tops
3	Broken cloud, large breaks, flat tops
4	Continuous cloud, undulating tops
5	Broken cloud, small breaks, undulating tops
6	Broken cloud, large breaks, undulating tops
7	Continuous or almost continuous waves with towering clouds above the top of the layer
8	Groups of waves with towering clouds above the top of the layer
9	Two or more layers at different levels

1.3.6. Section 5 - National data

To be developed regionally.

METAR CODE

The coding standards in this section conform to WMO Code Forms METAR FM 15-IX Ext. and SPECI FM 16-IX Ext. and the United States Exceptions filed with the WMO. These exceptions reflect national observing practices in the United States which may differ from practices outlined in the WMO Manual on Codes No. 306.

2.1. FORMAT

METAR_or_SPECI CCCC YYGGggZ {AUTO or COR} dddff(f)Gf_mf_m(f_m)KT d_nd_nd_nVd_xd_xd_x VVVVVSM [RD_RD_R/V_RV_RV_RFT or RD_RD_R/V_NV_NV_NV_NV_NV_NV_NV_NFT] w'w' [N_SN_SN_Sh_Sh_Sh_S or VVh_Sh_Sh_S or SKC/CLR] T'T'/T'_dT'_d AP_HP_HP_HP_H RMK (Automated, Manual, Plain Language) (Additive Data and Automated Maintenance Indicators)

METAR/SPECI has two major sections: the Body (consisting of a maximum of 11 groups) and the Remarks (consisting of 2 categories). Together, the body and remarks make up the complete METAR/SPECI. In general, the remarks are coded in the order depicted above and established in the remainder of this chapter.

The actual content of a METAR or SPECI depends on the observation program at the individual station. At designated stations, the 0000, 0600, 1200, and 1800 Coordinated Universal Time (UTC) METAR's include additional data specified by the responsible agency and are known as 6-hourly reports. At designated stations, the 0300, 0900, 1500, and 2100 UTC METAR's are known as 3-hourly reports and also contain additional information specified by the responsible agency.

When an element does not occur, or cannot be observed, the corresponding group and preceding space are omitted from that particular report.

2.2. EXAMPLE

PAMC 161453Z 00000KT 10SM -RA SCT065 OVC080 14/13 A2974 RMK A02
SLP071 P0000 60003 T01390133 53014=

2.3. BREAKDOWN

2.3.1. Body

METAR or SPECI

Type of Report. The type, METAR or SPECI, shall be included in all reports. The type of report shall be separated from elements following it by a space. Whenever SPECI criteria are met at the time of the routine METAR, the type of report shall be METAR.

CCCC

Station Identifier. The station identifier, CCCC, shall be included in all reports to identify the station to which the coded report applies. The station identifier shall consist of four alphabetic-only characters if the METAR/SPECI is transmitted long-line. The agency with operational control when the station is first established shall be responsible for coordinating the location identifier with the FAA. A list of approved identifiers can be found in the FAA Manual 7350 Series, Location Identifiers.

YYGGggZ

Date and Time of Report. The date, YY, and time, GGgg, shall be included in all reports. The time shall be the actual time of the report or when the criteria for a SPECI is met or noted (see paragraph 2.6.4). If the report is a correction to a previously disseminated report, the time of the corrected report shall be the same time used in the report being corrected. The date and time group always ends with a Z indicating Zulu time (or UTC). For example, METAR KDCA 210855Z would be the 0900 scheduled report from station KDCA taken at 0855 UTC on the 21st of the month.

AUTO or COR

Report Modifier. The report modifier, AUTO, identifies the METAR/SPECI as a fully automated report with no human intervention or oversight. In the event of a corrected METAR or SPECI, the report modifier, COR, shall be substituted in place of AUTO.

dddff(f)Gf_mf_m(f_m)KT d_nd_nd_nVd_xd_xd_x

Wind Group. The wind direction, ddd, shall be coded in tens of degrees using three figures. Directions less than 100 degrees shall be preceded with a "0". For example, a wind direction of 90 is coded as "090". The wind speed, ff(f), shall be coded in two or three digits immediately following the wind direction. The wind speed shall be coded, in whole knots, using the units and tens digits and, if required, the hundreds digit. Speeds of less than 10 knots shall be coded using a leading zero. The wind group shall always end with KT to indicate that wind speeds are reported in knots. For example, a wind speed of 8 knots shall be coded "08KT"; a wind speed of 112 knots shall be coded "112KT".

Gusts. Wind gusts shall be coded in the format, Gf_mf_m(f_m). The wind gust shall be coded in two or three digits immediately following the wind speed. The wind gust shall be coded, in whole knots, using the units and tens digits and, if required, the hundreds digit. For example, a wind from due west at 20 knots with gusts to 35 knots would be coded "27020G35KT".

Variable Wind Direction (Speeds 6 knots or less). Variable wind direction with wind speed 6 knots or less may be coded as VRB in place of the ddd. For example, if the wind is variable at three knots, it would be coded "VRB03KT".

Variable Wind Direction (Speeds greater than 6 knots). Variable wind direction with wind speed greater than 6 knots shall be coded in the format, dndndnVdxdx. The variable wind direction group shall immediately follow the wind group. The directional variability shall be coded in a clockwise direction. For example, if the wind is variable from 180 to 240 at 10 knots, it would be coded "21010KT 180V240".

Calm Wind. Calm wind shall be coded as "00000KT".

VVVVSM

Surface visibility. The surface visibility, VVVVSM, shall be coded in statute miles. A space shall be coded between whole numbers and fractions of reportable visibility values. The visibility group shall always end with SM to indicate that the visibility is in statute miles. For example, a visibility of one and a half statute miles would be coded "1 1/2SM".

Automated stations shall use an M to indicate "less than" when reporting visibility. For example, "M1/4SM" means a visibility of less than one-quarter statute mile.

RD_RD_R/V_RV_RV_RV_RFT or RD_RD_R/V_NV_NV_NV_NVV_XV_XV_XV_XFT

Runway Visual Range group.

RVR shall be coded in the format RD_RD_R/V_RV_RV_RV_RFT, where R indicates that the runway number follows, D_RD_R is the runway number (an additional D_R may be used for runway approach directions, such as R for right, L for left, and C for center), V_RV_RV_RV_R is the constant reportable value, and FT indicates that units of measurement are feet. A solidus "/" without spaces separates the runway number from the constant reportable value. For example, an RVR value for runway 01L of 800 feet would be coded "R01L/0800FT".

RVR that is varying shall be coded in the format, RD_RD_R/V_NV_NV_NV_NVV_XV_XV_XV_XFT, where R indicates that the runway number follows, D_RD_R is the runway number (an additional DR may be used for runway approach directions, such as R for right, L for left, and C for center), V_NV_NV_NV_N is the lowest reportable value in feet, V separates lowest and highest visual range values, V_XV_XV_XV_X is the highest reportable value, and FT indicates that units of measurement are feet. A solidus "/" without spaces separates the runway number from the reportable values. For example, the 10-minute RVR for runway 01L varying between 600 and 1,000 feet would be coded "R01L/0600V1000FT".

The values shall be based on light setting 5 at manual stations regardless of the light setting actually in use. RVR values shall be coded in increments of 100 feet up to 1,000 feet, increments of 200 feet from 1,000 feet to 3,000 feet, and increments of 500 feet from 3,000 feet to 6,000 feet. Manual RVR shall not be reported below 600 feet. For automated stations, RVR may be reported from up to four designated runways.

If the RVR is less than its lowest reportable value, the V_RV_RV_RV_R or V_NV_NV_NV_N groups shall be preceded by M. If the RVR is greater than its highest reportable value, the V_RV_RV_RV_R or V_XV_XV_XV_X groups shall be preceded by a P. For example, an RVR for runway 01L of less than 600 feet will be coded "R01L/M0600FT"; an RVR for runway 27 of greater than 6,000 feet will be coded "R27/P6000FT".

w'w'

Present Weather group.

The appropriate notations found in Table 12-2 shall be used to code present weather.

Table 2. Notations for Reporting Present Weather (See note 1)

QUALIFIER		WEATHER PHENOMENA		
INTENSITY OR PROXIMITY	DESCRIPTOR	PRECIPITATION	OBSCURATION	OTHER
1	2	3	4	5
- Light	MI Shallow	DZ Drizzle	BR Mist	PO Dust/sand devils
Moderate	PR Partial	RA Rain	FG Fog	SQ Wind squalls
(see note 2)	BC Patches	SN Snow	FU Smoke	FC Tornado/funnel
+ Heavy	DR Low Drifting	SG Snow Grains	VA Volcanic Ash	SS Sandstorm
VC In the	BL Blowing	IC Ice Crystals	DU Widespread Dust	or duststorm
Vicinity	SH Shower(s)	PE Ice Pellets	SA Sand	
(see note 3)	TS Thunderstorm	GR Hail	HZ Haze	
	FZ Freezing	GS Small Hail and/or snow pellets	PY Spray	
		UP Unknown precip		

1. The weather groups shall be constructed by considering columns 1 to 5 in the table above in sequence, i.e. intensity, followed by description, followed by weather phenomena, e.g. heavy rain shower(s) is coded as +SHRA
2. To denote moderate intensity no entry or symbol is used.
3. See paragraph 8.4.1.a.(2), 8.5, and 8.5.1 for vicinity definitions.
4. Tornadoes and waterspouts shall be coded as +FC.

The following general rules apply when coding present weather for a METAR or SPECI:

Weather occurring at the point of observation (at the station) or in the vicinity of the station shall be coded in the body of the report; weather observed but not occurring at the point of observation (at the station) or in the vicinity of the station shall be coded in Remarks.

With the exceptions of volcanic ash, low drifting dust, low drifting sand, low drifting snow, shallow fog, partial fog, and patches (of) fog, an obscuration shall be coded in the body of the report if the surface visibility is less than 7 miles or considered operationally significant. Volcanic ash shall always be coded when observed.

Separate groups shall be used for each type of present weather. Each group shall be separated from the other by a space. METAR/SPECI shall contain no more than three present weather groups.

The weather groups shall be constructed by considering columns 1 to 5 in Table 12-2 in sequence, i.e., intensity, followed by description, followed by weather phenomena, e.g., heavy rain shower(s) is coded as +SHRA.

a. Intensity or Proximity Qualifier.

(1) Intensity shall be coded with precipitation types, except ice crystals and hail, including those associated with a thunderstorm (TS) and those of a showery nature (SH). Tornadoes and waterspouts shall be coded as +FC. No intensity shall be ascribed to the obscurations of blowing dust (BLDU), blowing sand (BLSA), and blowing snow (BLSN). Only moderate or heavy intensity shall be ascribed to sandstorm (SS) and duststorm (DS).

(2) The proximity qualifier for vicinity, VC, (weather phenomena observed in the vicinity of but not at the point(s) of observation) shall be coded in combination with thunderstorm (TS), fog (FG), shower(s) (SH), well-developed dust/sand whirls (PO), blowing dust (BLDU), blowing sand (BLSA), blowing snow (BLSN), sandstorm (SS), and duststorm (DS). Intensity qualifiers shall not be coded with VC.

VCFG shall be coded to report any type of fog in the vicinity of the point(s) of observation.

Precipitation not occurring at the point of observation but within 10 statute miles shall be coded as showers in the vicinity (VCSH).

b. Descriptor Qualifier. Only one descriptor shall be coded for each weather phenomena group, e.g., "-FZDZ". Mist (BR) shall not be coded with any descriptor.

(1) The descriptors shallow (MI), partial (PR), and patches (BC) shall only be coded with FG, e.g., "MIFG".

(2) The descriptors low drifting (DR) and blowing (BL) shall only be coded with dust (DU), sand (SA), and snow (SN), e.g., "BLSN" or "DRSN". DR shall be coded for DU, SA, or SN raised by the wind to less than six feet above the ground. When blowing snow is observed with snow falling from clouds, both phenomena are reported, e.g., "SN BLSN". If there is blowing snow and the observer cannot determine whether or not snow is also falling, then BLSN shall be reported. PY shall be coded only with blowing (BL).

(3) The descriptor shower(s) (SH) shall be coded only with one or more of the precipitation types of rain (RA), snow (SN), ice pellets (PE), small hail (GS), or large hail (GR). The SH descriptor indicates showery-type precipitation. When any type of precipitation is coded with VC, the intensity and type of precipitation shall not be coded.

(4) The descriptor thunderstorm (TS) may be coded by itself, i.e., a thunderstorm without associated precipitation, or it may be coded with the precipitation types of rain (RA), snow (SN), ice pellets (PE), small hail and/or snow pellets (GS), or hail (GR). For example, a thunderstorm with snow and small hail and/or snow pellets would be coded as "TSSNGS". TS shall not be coded with SH.

(5) The descriptor freezing (FZ) shall only be coded in combination with fog (FG), drizzle (DZ), or rain (RA), e.g., "FZRA". FZ shall not be coded with SH.

c. Precipitation. Up to three types of precipitation may be coded in a single present weather group. They shall be coded in order of decreasing dominance based on intensity.

(1) Drizzle shall be coded as DZ; rain shall be coded as RA; snow shall be coded as SN; snow grains shall be coded as SG; ice crystals shall be coded as IC; ice pellets shall be coded as PE, hail shall be coded as GR, and small hail and/or

snow pellets shall be coded as GS.

(2) At automated stations, precipitation of unknown type shall be coded as UP.

d. Obscuration.

(1) Mist shall be coded as BR; fog shall be coded as FG; smoke shall be coded as FU; volcanic ash shall be coded as VA; widespread dust shall be coded as DU; sand shall be coded as SA; and haze shall be coded as HZ

(2) Shallow fog (MIFG), patches (of) fog (BCFG), and partial fog (PRFG) may be coded with prevailing visibility of 7 statute miles or greater.

(3) Spray shall be coded only as BLPY.

e. Other Weather Phenomena

(1) Well-developed dust/sand whirls shall be coded as PO; squalls shall be coded as SQ; sandstorm shall be coded as SS; and duststorm shall be coded as DS.

(2) Tornadoes and waterspouts shall be coded as +FC. Funnel clouds shall be coded as FC.

N_sN_sN_sh_sh_sh_s or VVh_sh_sh_s or SKC/CLR

Sky condition group. Sky condition shall be coded in the format, N_sN_sN_sh_sh_sh_s, where N_sN_sN_s is the amount of sky cover and h_sh_sh_s is the height of the layer. There shall be no space between the amount of sky cover and the height of the layer. Sky condition shall be coded in an ascending order up to the first overcast layer. At mountain stations, if the layer is below station level, the height of the layer shall be coded as ///.

Vertical visibility shall be coded in the format, VVh_sh_sh_s, where VV identifies an indefinite ceiling and h_sh_sh_s is the vertical visibility into the indefinite ceiling. There shall be no space between the group identifier and the vertical visibility.

Clear skies shall be coded in the format, SKC or CLR, where SKC is the abbreviation used by manual stations to indicate no layers are present and CLR is the abbreviation used by automated stations to indicate no layers are detected at or below 12,000 feet (see paragraph 9.5.4).

Each layer shall be separated from other layers by a space. The sky cover for each layer reported shall be coded by using the appropriate reportable contraction from Table 12-3. The report of clear skies (SKC or CLR) are complete layer reports within themselves. The abbreviations FEW, SCT, BKN, and OVC shall be followed, without a space, by the height of the layer.

Table 3. Contractions for Sky Cover

<u>Reportable Contraction</u>	<u>Meaning</u>	<u>Summation Amount of Layer</u>
VV	Vertical Visibility	8/8
SKC or CLR ¹	Clear	0
FEW	Nearly clear	Less than 1/8
SCT	Scattered	3/8 - 4/8
BKN	Broken	5/8 - 7/8
OVC	Overcast	8/8

1. The abbreviation CLR shall be used at automated stations when no layers at or below 12,000 feet are reported; the abbreviation SKC shall be used at manual stations when no layers are reported.

The height of the base of each layer, h_sh_sh_s, shall be coded in hundreds of feet above the surface using three digits.

Table 4. Increments of Reportable Values of Sky Cover

<u>Range of Height Values (feet)</u>	<u>Reportable Increment (feet)</u>
<=5,000	To nearest 100
>5,000 but <=10,000	To nearest 500
>10,000	To nearest 1,000

At manual stations, cumulonimbus (CB) or towering cumulus (TCU) shall be appended to the associated layer. For example, a scattered layer of towering cumulus at 1,500 feet would be coded "SCT015TCU" and would be followed by a space if there were additional higher layers to code.

T'T/T'dT_d

Temperature/Dew Point group. The temperature shall be separated from the dew point with a solidus "/". The temperature and dew point shall be coded as two digits rounded to the nearest whole degree Celsius. For example, a temperature of 0.3C would be coded as "00". Sub-zero temperatures and dew points shall be prefixed with an M. For example, a temperature of 4C with a dew point of -2C would be coded as "04/M02"; a temperature of -0.5C would be coded as "M00".

If the temperature is not available, the entire temperature/dew point group shall not be coded. If the dew point is not available, the temperature shall be coded followed by a solidus "/" and no entry made for dew point. For example, a temperature of 1.5C and a missing dew point would be coded as "02/".

AP_HP_HP_HP_H

Altimeter Setting. The altimeter group always starts with an A (the international indicator for altimeter in inches of mercury). The altimeter shall be coded as a four digit group immediately following the A using the tens, units, tenths, and hundredths of inches of mercury. The decimal point is not coded.

2.3.2. Remarks

Remarks shall be included in all METAR and SPECI, if appropriate. Remarks shall be separated from the body of the report by a space and the contraction RMK. If there are no remarks, the contraction RMK is not required.

METAR/SPECI remarks fall into 2 categories: (1) Automated, Manual, and Plain Language (see paragraph 12.7.1), and (2) Additive and Maintenance Data (see paragraph 12.7.2).

Where plain language is called for, authorized contractions, abbreviations, and symbols should be used to conserve time and space. However, in no case should an essential remark, of which the observer is aware, be omitted for the lack of readily available contractions. In such cases, the only requirement is that the remark be clear. For a detailed list of authorized contractions, see FAA Order 7340 Series, Contractions.

Time entries shall be made in minutes past the hour if the time reported occurs during the same hour the observation is taken. Hours and minutes shall be used if the hour is different, or regulations prescribe the use of the hour and minutes.

Present weather coded in the body of the report as VC may be further described, i.e., direction from the station, if known. Weather phenomena beyond 10 statute miles of the point(s) of observation shall be coded as distant (DSNT) followed by the direction from the station. For example, precipitation of unknown intensity within 10 statute miles east of the station would be coded as "VCSH E"; lightning 25 statute miles west of the station would be coded as "LTG DSNT W".

Distance remarks shall be statute miles except for automated lightning remarks which are in nautical miles.

Movement of clouds or weather, if known, shall be coded with respect to the direction toward which the phenomena is moving. For example, a thunderstorm moving toward the northeast would be coded as "TS MOV NE".

Directions shall use the eight points of the compass coded in a clockwise order.

Insofar as possible, remarks shall be entered in the order they are presented in the following paragraphs.

Automated, Manual, and Plain Language Remarks. These remarks generally elaborate on parameters reported in the body of the report. Automated and manual remarks may be generated either by an automated or manual station. Plain language remarks are only provided from manual stations.

Volcanic Eruptions (Plain Language). Volcanic eruptions shall be coded. The remark shall be plain language and contain the following, if known: (1) Name of volcano; (2) Latitude and longitude or the direction and the approximate distance from the station; (3) Date/Time (UTC) of the eruption; (4) Size description, approximate height, and direction of movement of the ash cloud; (5) Any other pertinent data about the eruption. For example, a remark on a volcanic eruption would look like the following:

MT. AUGUSTINE VOLCANO 70 MILES SW ERUPTED 231505 LARGE ASH CLOUD
EXTENDING TO APRX 30000 FEET MOVING NE.

Pre-eruption volcanic activity shall not be coded. Pre-eruption refers to unusual and/or increasing volcanic activity which could presage a volcanic eruption.

Funnel Cloud (Tornadic activity_B/E(hh)mm_LOC/DIR_(MOV)). At manual stations, tornadoes, funnel clouds, or waterspouts shall be coded in the format, Tornadic activity_B/E(hh)mm_LOC/DIR_(MOV), where TORNADO, FUNNEL CLOUD, or WATERSPOUT identifies the specific tornadic activity, B/E denotes the beginning and/or ending time, (hh)mm is the time of occurrence (only the minutes are required if the hour can be inferred from the report time), LOC/DIR is the location and/or direction of the phenomena from the station, and MOV is the movement, if known. Tornadic activity shall be coded as the first remark after the "RMK" entry. For example, "TORNADO B13 6 NE" would indicate that a tornado, which began at 13 minutes past the hour, was 6 statute miles northeast of the station.

Type of Automated Station (AO1 or AO2). AO1 or AO2 shall be coded in all METAR/SPECI from automated stations. Automated stations without a precipitation discriminator shall be identified as AO1; automated station with a precipitation discriminator shall be identified as AO2.

Peak Wind (PK_WND_dddff(f)/(hh)mm). The peak wind shall be coded in the format, PK_WND dddff(f)/(hh)mm of the next METAR, where PK_WND is the remark identifier, ddd is the direction of the peak wind, ff(f) is the peak wind speed since the last METAR, and (hh)mm is the time of occurrence (only the minutes are required if the hour can be inferred from the report time). There shall be a space between the two elements of the remark identifier and the wind direction/speed group; a solidus "/" (without spaces) shall separate the wind direction/speed group and the time. For example, a peak wind of 45 knots from 280 degrees that occurred at 15 minutes past the hour would be coded "PK WND 28045/15".

Wind Shift (WSHFT_(hh)mm). A wind shift shall be coded in the format, WSHFT_(hh)mm, where WSHFT is the remark identifier and (hh)mm is the time the wind shift began (only the minutes are required if the hour can be inferred from the report time) (see paragraphs 5.4.6 and 5.5.6). The contraction FROPA may be entered following the time if it is reasonably certain that the wind shift was the result of a frontal passage. There shall be a space between the remark identifier and the time and, if applicable, between the time and the frontal passage contraction. For example, a remark reporting a wind shift accompanied by a frontal passage that began at 30 minutes after the hour would be coded as "WSHFT 30 FROPA".

Tower or Surface Visibility (TWR_VIS_vvvvv or SFC_VIS_vvvvv). Tower visibility or surface visibility (see paragraphs 6.5.4 and 6.5.5) shall be coded in the formats, TWR_VIS_vvvvv or SFC_VIS_vvvvv, respectively, where vvvvv is the observed tower/surface visibility value. A space shall be coded between each of the remark elements. For example, the control tower visibility of 1 1/2 statute miles would be coded "TWR VIS 1 1/2".

Variable Prevailing Visibility (VIS_v_nv_nv_nv_nVv_xv_xv_xv_x). Variable prevailing visibility shall be coded in the format VIS_v_nv_nv_nv_nVv_xv_xv_xv_x, where VIS is the remark identifier, v_nv_nv_nv_n is the lowest visibility evaluated, V denotes variability between two values, and v_xv_xv_xv_x is the highest visibility evaluated. There shall be one space following the remark identifier; no spaces between the letter V and the lowest/highest values. For example, a visibility that was varying between 1/2 and 2 statute miles would be coded "VIS 1/2V2".

Sector Visibility (VIS_[DIR]_vvvvv) [Plain Language]. The sector visibility shall be coded in the format, VIS_[DIR]_vvvvv, where VIS is the remark identifier, [DIR] defines the sector to 8 points of the compass, and vvvvv is the sector visibility in statute miles, using the appropriate set of values in Table 12-1 (see paragraphs 6.4.6 and 6.5.7). For example, a visibility of 2 1/2 statute miles in the northeastern octant would be coded "VIS NE 2 1/2".

Visibility At Second Location (VIS_vvvvv_[LOC]). At designated automated stations, the visibility at a second location shall be coded in the format VIS_vvvvv_[LOC], where VIS is the remark identifier, vvvvv is the measured visibility value, and [LOC] is the specific location of the visibility sensor(s) at the station. This remark shall only be generated when the condition is lower than that contained in the body of the report. For example, a visibility of 2 1/2 statute miles measured by a second sensor located at runway 11 would be coded "VIS 2 1/2 RWY11".

When lightning is observed at a manual station, the frequency, type of lightning, and location shall be reported. The remark shall be coded in the format Frequency_LTG(type)_[LOC]. Examples are "OCNL LTGICCG OHD", "FRQ LTG VC", or "LTG DSNT W".

When lightning is detected by an automated system: (a) Within 5 nautical miles of the Airport Location Point (ALP), it will be reported as TS in the body of the report with no remark; (b) Between 5 and 10 nautical miles of the ALP, it will be reported as VCTS in the body of the report with no remark; (c) Beyond 10 but less than 30 nautical miles of the ALP, it will be reported in remarks only as LTG DSNT followed by the direction from the ALP.

Beginning and Ending of Precipitation (w'w'B(hh)mmE(hh)mm). At designated stations, the beginning and ending of

precipitation shall be coded in the format, w'w'B(hh)mmE(hh)mm, where w'w' is the type of precipitation, B denotes the beginning, E denotes the ending, and (hh)mm is the time of occurrence (only the minutes are required if the hour can be inferred from the report time). There shall be no spaces between the elements. The coded remarks are not required in SPECI and should be reported in the next METAR. Intensity qualifiers shall not be coded. For example, if rain began at 0005, ended at 0030, and snow began at 0020, and ended at 0055, the remarks would be coded "RAB05E30SNB20E55". If the precipitation were showery, the remark would be coded "SHRAB05E30SHSNB20E55".

Beginning and Ending of Thunderstorms (TSB(hh)mmE(hh)mm). The beginning and ending of thunderstorm(s) shall be coded in the format, TSB(hh)mmE(hh)mm, where TS indicates thunderstorm, B denotes the beginning, E denotes the ending, and (hh)mm is the time of occurrence (only the minutes are required if the hour can be inferred from the report time) (see paragraph 8.5.4). There shall be no spaces between the elements. For example, if a thunderstorm began at 0159 and ended at 0230, the remark would be coded "TSB0159E30".

Thunderstorm Location (TS_LOC_(MOV_DIR)) [Plain Language]. Thunderstorm(s) shall be coded in the format, TS_LOC_(MOV_DIR), where TS identifies the thunderstorm activity, LOC is the location of the thunderstorm(s) from the station, and MOV_DIR is the movement with direction, if known. For example, a thunderstorm southeast of the station and moving toward the northeast would be coded "TS SE MOV NE".

Hailstone Size (GR_[size]) [Plain Language]. At designated stations, the hailstone size shall be coded in the format, GR_[size], where GR is the remark identifier and [size] is the diameter of the largest hailstone. The hailstone size shall be coded in 1/4 inch increments. For example, "GR 1 3/4" would indicate that the largest hailstones were 1 3/4 inches in diameter. If GS is coded in the body of the report, no hailstone size remark is required.

Virga (VIRGA_(DIR)) [Plain Language]. Virga shall be coded in the format, VIRGA_(DIR), where VIRGA is the remark identifier and DIR is the direction from the station. The direction of the phenomena from the station is optional, e.g., "VIRGA" or "VIRGA SW".

Variable Ceiling Height (CIG_h_nh_nVh_xh_x). The variable ceiling height shall be coded in the format, CIG_h_nh_nVh_xh_x, where CIG is the remark identifier, h_nh_n is the lowest ceiling height evaluated, V denotes variability between two values, and h_xh_x is the highest ceiling height evaluated. There shall be one space following the remark identifier; no spaces between the letter V and the lowest/highest ceiling values. For example, "CIG 005V010" would indicate a ceiling that was varying between 500 and 1,000 feet.

Obscurations (w'w'_[N_sN_sN_s]h_sh_sh_s). [Plain Language] Obscurations (surface-based or aloft) shall be coded in the format, w'w'_[N_sN_sN_s]h_sh_sh_s, where w'w' is the weather causing the obscuration at the surface or aloft, N_sN_sN_s is the applicable sky cover amount of the obscuration aloft (FEW, SCT, BKN, OVC) or at the surface (FEW, SCT, BKN), and hshshs is the applicable height. Surface-based obscurations shall have a height of "000". There shall be a space separating the weather causing the obscuration and the sky cover amount; there shall be no space between the sky cover amount and the height. For example, fog hiding 3-4 oktas of the sky would be coded "FG SCT000"; a broken layer at 2,000 feet composed of smoke would be coded "FU BKN020".

Variable Sky Condition (N_sN_sN_s(h_sh_sh_s)_V_N_sN_sN_s). [Plain Language] The variable sky condition remark shall be coded in the format, N_sN_sN_s(h_sh_sh_s)_V_N_sN_sN_s, where N_sN_sN_s(h_sh_sh_s) and N_sN_sN_s identifies the two operationally significant sky conditions and V denotes the variability between the two ranges. If there are several layers with the same sky condition amount, the layer height (h_sh_sh_s) of the variable layer shall be coded. For example, a cloud layer at 1,400 feet that is varying between broken and overcast would be coded "BKN014 V OVC".

Cumulonimbus or Cumulonimbus Mammatus (CB or CBMAM_LOC_(MOV_DIR)). Cumulonimbus or cumulonimbus mammatus, as appropriate, (for which no thunderstorm is being reported) shall be coded in the format, CB or CBMAM_LOC_(MOV_DIR), where CB or CBMAM is the cloud type, LOC is the direction from the station, and MOV_DIR is the movement with direction (if known). The cloud type, location, movement, and direction entries shall be separated from each other with a space. For example, a CB up to 10 statute miles west of the station moving toward the east would be coded "CB W MOV E". If the CB was more than 10 statute miles to the west, the remark would be coded "CB DSNT W".

Towering cumulus (TCU_[DIR]). Towering cumulus clouds shall be coded in the format, TCU_[DIR], where TCU is the cloud type and DIR is the direction from the station. The cloud type and direction entries shall be separated by a space. For example, a towering cumulus cloud up to 10 statute miles west of the station would be coded "TCU W".

Altocumulus castellanus (ACC_[DIR]). Altocumulus castellanus shall be coded in the format, ACC_[DIR], where ACC is the cloud type and DIR is the direction from the station. The cloud type and direction entries shall be separated by a space. For example, an altocumulus cloud 5 to 10 statute miles northwest of the station would be coded "ACC NW".

Standing lenticular or Rotor clouds (CLD_[DIR]). Stratocumulus (SCSL), altocumulus (ACSL), or cirrocumulus (CCSL), or rotor clouds shall be coded in the format, CLD_[DIR], where CLD is the cloud type and DIR is the direction from the station. The cloud type and direction entries shall be separated by a space. For example, altocumulus standing lenticular clouds observed southwest through west of the station would be coded "ACSL SW-W"; an apparent rotor cloud 5 to 10 statute miles northeast of the station would be coded "APRNT ROTOR CLD NE"; and cirrocumulus clouds south of the station would be coded "CCSL S".

Ceiling Height at Second Location (CIG_hhh_[LOC]). At designated stations, the ceiling height at a second location shall be coded in the format, CIG_hhh_[LOC], where CIG is the remark identifier, hhh is the measured height of the ceiling, and [LOC] is the specific location of the ceilometer(s) at the station (see paragraph 9.5.8). This remark shall only be generated when the ceiling is lower than that contained in the body of the report. For example, if the ceiling measured by a second sensor located at runway 11 is broken at 200 feet, the remark would be "CIG 002RWY11".

Pressure Rising or Falling Rapidly (PRESRR/PRESFR). At designated stations, when the pressure is rising or falling rapidly at the time of observation (see paragraphs 11.4.6 and 11.5.5), the remark PRESRR (pressure rising rapidly) or PRESFR (pressure falling rapidly) shall be included in the report.

Sea-Level Pressure (SLPppp). At designated stations, the sea-level pressure shall be coded in the format SLPppp, where SLP is the remark identifier and ppp is the sea-level pressure in hectopascals (see paragraphs 11.4.4 and 11.5.4). For example, a sea-level pressure of 998.2 hectopascals would be coded as "SLP982". For a METAR, if sea-level pressure is not available, it is coded as "SLPNO".

Aircraft Mishap (ACFT_MSHP) [Plain Language]. If a report is taken to document weather conditions when notified of an aircraft mishap, the remark ACFT_MSHP shall be coded in the report but not transmitted. The act of non-transmission shall be indicated by enclosing the remark in parentheses in the record, i.e., "(ACFT MSHP)".

No SPECI Reports Taken (NOSPECI) [Plain Language]. At manual stations where SPECI's are not taken, the remark NOSPECI shall be coded to indicate that no changes in weather conditions will be reported until the next METAR.

Snow Increasing Rapidly (SNINCR_[inches-hour/inches on ground]). At designated stations, the snow increasing rapidly remark shall be reported, in the next METAR, whenever the snow depth increases by 1 inch or more in the past hour. The remark shall be coded in the format, SNINCR [inches-hour/inches on ground], where SNINCR is the remark indicator, inches-hour is the depth increase in the past hour, and inches on ground is the total depth of snow on the ground at the time of the report. The depth increase in the past hour and the total depth on the ground are separated from each other by a solidus "/". For example, a snow depth increase of 2 inches in the past hour with a total depth on the ground of 10 inches would be coded "SNINCR 2/10".

Other Significant Information [Plain Language]. Agencies may add to a report other information significant to their operations, such as information on fog dispersal operations, runway conditions, "FIRST" or "LAST" report from station, etc.

Hourly Precipitation Amount (Prrrr). At designated automated stations, the hourly precipitation amount shall be coded in the format, Prrrr, where P is the group indicator and rrrr is the water equivalent of all precipitation that has occurred since the last METAR. The amount shall be coded in hundredths of an inch. For example, "P0009" would indicate 9/100 of an inch of precipitation fell in the past hour; "P0000" would indicate that less than 1/100 of an inch of precipitation fell in the past hour. The group shall be omitted if no precipitation occurred since the last METAR.

3- and 6-Hour Precipitation Amount (6RRRR). At designated stations, the 3- and 6-hourly precipitation group shall be coded in the format, 6RRRR, where 6 is the group indicator and RRRR is the amount of precipitation. The amount of precipitation (water equivalent) accumulated in the past 3 hours shall be reported in the 3-hourly report; the amount accumulated in the past 6 hours shall be reported in the 6-hourly report. The amount of precipitation shall be coded in inches, using the tens, units, tenths and hundredths digits of the amount. When an indeterminable amount of precipitation has occurred during the period, RRRR shall be coded 6////. For example, 2.17 inches of precipitation would be coded "60217". A trace shall be coded "60000".

24-Hour Precipitation Amount (7R₂₄R₂₄R₂₄R₂₄). At designated stations, the 24-hour precipitation amount shall be coded in the format, 7R₂₄R₂₄R₂₄R₂₄, where 7 is the group indicator and R₂₄R₂₄R₂₄R₂₄ is the 24-hour precipitation amount. The 24-hour precipitation amount shall be included in the 1200 UTC (or other agency designated time) report whenever more than a trace of precipitation (water equivalent) has fallen in the preceding 24 hours. The amount of precipitation shall be coded by using the tens, units, tenths, and hundredths of inches (water equivalent) for the 24-hour period. If more than a trace (water equivalent) has occurred and the amount cannot be determined, the group shall be coded 7////. For example, 1.25 inches of precipitation (water equivalent) in the past 24 hours shall be coded "70125".

Snow Depth on Ground (4/sss). At designated stations, the total snow depth on the ground group shall be coded in the 0000 and 1200 UTC observation whenever there is more than a trace of snow on the ground. It shall be coded in the 0600 and 1800 UTC observation if there is more than a trace of snow on the ground and more than a trace of precipitation (water equivalent) has occurred within the past 6 hours. The remark shall be coded in the format, 4/sss, where 4/ is the group indicator and sss is the snow depth in whole inches using three digits. For example, a snow depth of 21 inches shall be coded as "4/021".

Water Equivalent of Snow on Ground (933RRR). At designated stations, the water equivalent of snow on the ground shall be coded each day, in the 1800 UTC report, if the average snow depth is 2 inches or more. The remark shall be coded in the format, 933RRR, where 933 is the group indicator and RRR is the water equivalent of snow, i.e., snow, snow pellets, snow grains, ice pellets, ice crystals, and hail, on the ground. The water equivalent shall be coded in tens, units, and tenths of inches, using three digits. If the water equivalent of snow consists entirely of hail, the group shall not be coded. A water equivalent of 3.6 inches of snow would be coded as "933036"; a water equivalent of 12.5 would be coded as "933125".

Cloud Types (8/CLCMCH). At designated stations, the group, 8/CLCMCH, shall be reported and coded in 3- and 6-hourly reports when clouds are observed. The predominant low cloud (CL), middle cloud (CM), and high cloud (CH), shall be identified in accordance with the WMO International Cloud Atlas, Volumes I and II, or the WMO Abridged International Cloud Atlas or agency observing aids for cloud identification. A 0 shall be coded for the low, middle, or high cloud type if no cloud is present in that classification. A solidus "/" shall be coded for layers above an overcast. If no clouds are observed due to clear skies, the cloud type group shall not be coded. For example, a report of "8/6/" would indicate an overcast layer of stratus clouds; a report of "8/903" would indicate cumulonimbus type low clouds, no middle clouds, and dense cirrus high clouds.

Duration of Sunshine (98mmm). The duration of sunshine that occurred the previous calendar day shall be coded in the 0800 UTC report. If the station is closed at 0800 UTC, the group shall be coded in the first 6-hourly METAR after the station opens. The duration of sunshine shall be coded in the format, 98mmm, where 98 is the group indicator and mmm is the total minutes of sunshine. The minutes of sunshine shall be coded by using the hundreds, tens, and units digits. For example, 96 minutes of sunshine would be coded "98096". If no sunshine occurred, the group would be coded "98000".

Hourly Temperature and Dew Point ($T_s T' T' T' s_n T' d' d' T' d'$). At designated stations, the hourly temperature and dew point group shall be coded to the tenth of a degree Celsius in the format, $T_s T' T' T' s_n T' d' d' T' d'$, where T is the group indicator, s_n is the sign of the temperature, $T' T' T'$ is the temperature, and $T' d' d' T' d'$ is the dew point. The sign of the temperature and dew point shall be coded as 1 if the value is below 0 deg C and 0 if the value is 0 deg C or higher. The temperature and dew point shall be reported in tens, units, and tenths of degrees Celsius. There shall be no spaces between the entries. For example, a temperature of 2.6 deg C and dew point of -1.5 deg C would be reported in the body of the report as "03/M01" and the $T_s T' T' T' s_n T' d' d' T' d'$ group as "T00261015". If dew point is missing report the temperature; if the temperature is missing do not report the temperature/dew point group.

6-Hourly Maximum Temperature ($1s_n T_x T_x T_x$). At designated stations, the 6-hourly maximum temperature group shall be coded in the format, $1s_n T_x T_x T_x$, where 1 is the group indicator, s_n is the sign of the temperature, $T_x T_x T_x$ is the maximum temperature in tenths of degrees Celsius using three digits. The sign of the maximum temperature shall be coded as 1 if the maximum temperature is below 0 deg C and 0 if the maximum temperature is 0 deg C or higher. For example, a maximum temperature of -2.1 deg C would be coded "11021"; 14.2 deg C would be coded "10142".

6-Hourly Minimum Temperature ($2s_n T_n T_n T_n$). At designated stations, the 6-hourly minimum temperature group shall be coded in the format, $2s_n T_n T_n T_n$, where 2 is the group indicator, s_n is the sign of the temperature, and $T_n T_n T_n$ is the minimum temperature in tenths of degrees Celsius using three digits. The sign of the minimum temperature shall be coded as 1 if the minimum temperature is below 0 deg C and 0 if the minimum temperature is 0 deg C or higher. For example, a minimum temperature of -0.1 deg C would be coded "21001"; 1.2 deg C would be coded "20012".

24-Hour Maximum and Minimum Temperature ($4s_n T_x T_x T_x s_n T_n T_n T_n$). At designated stations, the 24-hour maximum temperature and the 24-hour minimum temperature shall be coded in the format, $4s_n T_x T_x T_x s_n T_n T_n T_n$, where 4 is the group indicator, s_n is the sign of the temperature, $T_x T_x T_x$ is the maximum 24-hour temperature, and $T_n T_n T_n$ is the 24-hour minimum temperature. $T_x T_x T_x$ and $T_n T_n T_n$ shall be coded in tenths of degrees Celsius using three digits. The sign of the maximum or minimum temperature shall be coded as 1 if it is below 0 deg C and 0 if it is 0 deg C or higher. For example, a 24-hour maximum temperature of 10.0 deg C and a 24-hour minimum temperature of -1.5 deg C would be coded "401001015"; a 24-hour maximum temperature of 11.2 deg C and a 24-hour minimum temperature of 8.4C would be coded as "401120084".

3-Hourly Pressure Tendency (5appp). At designated stations, the 3-hourly pressure tendency group shall be coded in the format, 5appp, where 5 is the group indicator, a is the character of pressure change over the past 3 hours (see Table

12-7), and ppp is the amount of barometric change in tenths of hectopascals (see Table 12-8). The amount of barometric change shall be coded using the tens, units, and tenths digits (see paragraphs 11.4.7 and 11.5.4). For example, a steady increase of 3.2 hectopascals in the past three hours would be coded "52032".

RVRNO. If RVR should be reported but is missing, RVRNO shall be coded.

PWINO. When automated stations are equipped with a present weather identifier and that sensor is not operating, the remark PWINO shall be coded.

PNO. When automated stations are equipped with a tipping bucket rain gauge and that sensor is not operating, PNO shall be coded.

FZRANO. When automated stations are equipped with a freezing rain sensor and that sensor is not operating, the remark FZRANO shall be coded.

TSNO. When automated stations are equipped with a lightning detection system and that sensor is not operating, the remark TSNO shall be coded.

VISNO_LOC. When automated stations are equipped with a secondary visibility sensor and that sensor is not operating, the remark VISNO_LOC shall be coded.

CHINO_LOC. When automated stations are equipped with a secondary ceiling height indicator and that sensor is not operating, the remark CHINO_LOC shall be coded.

Maintenance Indicator. A maintenance indicator sign, \$, shall be coded when an automated system detects that maintenance is needed on the system.

3. TTAA UPPER-AIR CODE

Known by the World Meteorological Organization as the TEMP (FM 35-IX), this format has for years carried the majority of worldwide upper-air observations.

3.1. FORMAT

Codes in parentheses are optionally included.

Section 1 - Header information

M_iM_jM_j D....D YYGGi_w {lllil or 99L_aL_aL_a Q_cL_oL_oL_o MMMU_{La}U_{Lo} h_oh_oh_oh_oi_m}

Section 2 - Basic weather data

99P_oP_oP_o T_oT_oT_{ao}D_oD_o d_od_of_of_o
P₁P₁h₁h₁h₁ T₁T₁T_{a1}D₁D₁ d₁d₁f₁f₁
.....
P_nP_nh_nh_nh_n T_nT_nT_{an}D_nD_n d_nd_nf_nf_n

Section 3 - Tropopause data

88P_tP_tP_t T_tT_tT_{at}D_tD_t d_td_tf_tf_t
or
88999

Section 4 - Maximum wind data

{77P_mP_mP_m or 66P_mP_mP_m} d_md_mf_mf_m (4v_bv_bv_av_a)
or
77999

Section 5 - Regional data (United States)

51515 101A_{df}A_{df}

3.2. EXAMPLE

TTAA 66121 72357 99976 23030 06003 00141 // // 92829 24657
06513 85567 20257 35011 70215 09859 34514 50591 09358 33511 40761
18356 33509 30970 33359 30018 25095 42759 29512 20242 52561 14504
15423 61566 34519 10669 69566 08505 88999 77999 51515 10164 00052
10194 04511 32513=

3.3. BREAKDOWN

3.3.1. Section 1 - Header information

MMMM

This is always TTAA.

D....D

Not necessary if the station is a land station and other parts of the same bulletin contain this item of information. Ship's call sign, consisting of three or more alphanumeric characters.

YYGGi_w

YY - Day of the month for the observation.

GG - Actual time of observation to the nearest whole hour UTC (Universal Coordinated Time, also known as Zulu and Greenwich Mean Time).

i_w - Indicator for the source and units of wind speed.

- | | |
|---|---|
| 0 | Wind speed estimated in meters per second |
| 1 | Wind speed measured in meters per second |
| 2 | Wind speed estimated in knots |
| 3 | Wind speed measured in knots |

IIII

Not necessary if the station is a land station and other parts of the same bulletin contain this item of information

II - Station block number.

- | | |
|-------|---------------|
| 00-39 | Europe |
| 40-59 | Asia |
| 60-69 | Africa |
| 70-79 | North America |
| 80-88 | South America |
| 89 | Antarctica |
| 90-98 | Pacific |

iii - Station number. These codes comprise a worldwide list of weather stations too numerous to list here. See the appendix for an index.

99L_aL_aL_aQ_cL_oL_oL_o

Ship's latitude and longitude (location of the observation).

L_aL_aL_a - Latitude in tens, units, and tenths.

Q_c - Quadrant of globe.

- | | | |
|---|----------------|----------------|
| 1 | North latitude | East longitude |
| 3 | South latitude | East longitude |
| 5 | South latitude | West longitude |
| 7 | North latitude | West Longitude |

L_oL_oL_oL_o - Longitude in hundreds, tens, units, and tenths.

MMMU_{La}U_{Lo}

MMM - Number of Marsden square in which the station is situated at the time of observation. Code table MISSING (yet again!)

U_{La} - Units digit in the reported latitude.

U_{Lo} - Units digit in the reported longitude.

h_oh_oh_oh_oi_m

h_oh_oh_oh_o - Elevation of a mobile land station making an upper air observation, in either meters or feet as indicated by im.

i_m - Indicator for units of elevation, and confidence factor for accuracy of elevation.

Code	Units	Confidence factor in elevation
1	Meters	Excellent (within 3 meters)
2	Meters	Good (within 10 meters)
3	Meters	Fair (within 20 meters)
4	Meters	Poor (more than 20 meters)
5	Feet	Excellent (within 10 feet)
6	Feet	Good (within 30 feet)
7	Feet	Fair (within 60 feet)
8	Feet	Poor (more than 60 feet)

3.3.2. Section 2 - Basic weather data

99P₀P₀P₀

The symbol P₀P₀P₀ indicates the pressure at the surface in whole hectopascals (hundreds, tens, and units only).

T₀T₀T_{ao}D₀D₀

Temperature and dewpoint data at the surface. T₀T₀ is the tens and unit digit of air temperature, in degrees Celsius. The symbol T_{ao} is the approximate tenths value and sign (plus or minus) of the air temperature. The entire value is negative if it is odd, positive if even. D₀D₀ is the dewpoint depression. If this value is 50 or less, it represents the units and tenths place, otherwise it represents the tens and units place.

d₀d₀f₀f₀

Wind data. The symbol d₀d₀ is the true wind direction rounded to the nearest 5 degrees, in tens of degrees, from which the wind is blowing. The symbol f₀f₀ is the wind speed, in meters per second or knots. If the first digit is 5 or greater, it indicates that 5 degrees must be added to the wind direction and 500 must be subtracted from the speed value.

P₁P₁h₁h₁h₁

The symbol P₁P₁ is the indicated pressure surface in millibars, using the hundreds and tens place (00 is 1000 mb, 85 is 850 mb, etc). The height of this pressure surface is indicated by h₁h₁h₁ in geopotential meters (using whole meters below 500 mb and decameters at and above 500 mb; the thousands and ten thousands digit is always omitted). All data following this group will be valid for this level.

T₁T₁T_{a1}D₁D₁

Temperature and dewpoint data. T₁T₁ is the tens and unit digit of air temperature, in degrees Celsius. The symbol T_{a1} is the approximate tenths value and sign (plus or minus) of the air temperature. The entire value is negative if it is odd, positive if even. D₁D₁ is the dewpoint depression. If this value is 50 or less, it represents the units and tenths place, otherwise it represents the tens and units place.

d₁d₁f₁f₁

Wind data. The symbol d₁d₁ is the true wind direction rounded to the nearest 5 degrees, in tens of degrees, from which the wind is blowing. The symbol f₁f₁ is the wind speed, in meters per second or knots. If the first digit is 5 or greater, it indicates that 5 degrees must be added to the wind direction and 500 must be subtracted from the speed value.

3.3.3. Section 3 - Tropopause data

88P_tP_tP_t

Pressure at the tropopause level. P_tP_tP_t is in whole millibars.

T_tT_tT_{at}D_tD_t

Temperature and dewpoint at the tropopause level. T_tT_t is the tens and unit digit of air temperature, in degrees Celsius. The symbol T_{at} is the approximate tenths value and sign (plus or minus) of the air temperature. The entire value is negative if it is odd, positive if even. D_tD_t is the dewpoint depression. If this value is 50 or less, it represents the units and tenths place, otherwise it represents the tens and units place.

d_td_tfff_t

Wind data at the tropopause level. The symbol d_td_t is the true wind direction rounded to the nearest 5 degrees, in tens of degrees, from which the wind is blowing. The symbol fff_t is the wind speed, in meters per second or knots. If the first digit is 5 or greater, it indicates that 5 degrees must be added to the wind direction and 500 must be subtracted from the speed value.

or

88999

Tropopause data missing or tropopause undefined.

3.3.4. Section 4 - Maximum wind data

77P_mP_mP_m

Pressure at the maximum wind level, when this level is not at the top of the sounding. P_mP_mP_m is in whole millibars.

or

66P_mP_mP_m

Pressure at the maximum wind level, when this level is at the top of the sounding. P_mP_mP_m is in whole millibars.

d_md_mfff_m

Wind data at the maximum wind level. The symbol d_md_m is the true wind direction rounded to the nearest 5 degrees, in tens of degrees, from which the wind is blowing. The symbol fff_m is the wind speed, in meters per second or knots. If the first digit is 5 or greater, it indicates that 5 degrees must be added to the wind direction and 500 must be subtracted from the speed value.

(4v_bv_bv_av_a)

Vertical wind shear data, if available. The term v_bv_b is the absolute value of the vector difference between the maximum wind and the wind blowing at 1 km below the level of maximum wind. The term v_av_a is the absolute value of the vector difference between the maximum wind and the wind blowing at 1 km above the level of maximum wind.

77999

Maximum wind data not available or maximum wind level undefined.

3.3.5. Section 5 - Regional data (United States)

51515

Identifier for regional data, which follows.

101A_{df}A_{df}.....

A_{df}A_{df} is used for additional data. These chart lists the meanings of 101A_{df}A_{df}.

<u>Code</u>	<u>Indicates</u>
10142	Difficulty in completing flight
10145	Unfavorable weather conditions
10146	Low maximum altitude (<1500' AGL)
10147	Balloon leaked
10148	Ascent not authorized
10149	Alert
10150	Ascent did not go past 400 mb
10151	Balloon forced down by icing
10152	Balloon forced down by precip
10153	Atmospheric interference
10154	Local interference

10155 Fading signal
 10156 Weak signal
 10157 Preventative maintenance
 10158 Flight equipment failure
 10159 Miscellaneous problems
 10162 Radiosonde report precedes
 10164 Showalter stability index follows: 0-40: 0-40; 51-90: -1 to -40; 91 too dry; 92 missing data
 10165 Height/temp data doubtful at: $0P_n P_n P'_n P'_n$ (boundary of layer)
 10166 Height data doubtful at: $0P_n P_n P'_n P'_n$ (boundary of layer)
 10167 Temp data doubtful at: $0P_n P_n P'_n P'_n$ (boundary of layer)
 10168 Dewpoint data doubtful at: $0P_n P_n P'_n P'_n$ (boundary of layer)
 10178 Corrected tropopause data follows
 10179 Corrected max wind data follows
 10180 Corrected report for entire report precedes
 10181 Corrected report for entire first transmission precedes
 10182 Corrected report for entire second transmission precedes
 10183 Corrected data for mandatory levels follows
 10184 Corrected data for significant levels follows
 10185 Minor error in this report, corrections follow
 10186 Significant levels not included follow: $//P_n P_n P_n T_n T_n T_n D_n D_n$ or $P_n P_n P_n T_n T_n$
 10187 Corrected surface data follow
 10188 Corrected additional data groups follow
 10190 Extrapolated geopotential data follow: $P_n P_n h_n h_n h_n (d_n d_n d_n f_n)$
 10191 Extrapolated data precede (dropsonde only)
 10194 Mean wind data follows: surface to 5000 mean winds, and 5000-10000 ft mean winds
 10195 Early transmission of 850 and 500 mb data and stability index follows:
 85hhh TTT_aDD dffff 50hhh TTT_aDD dffff i_si_s
 10196 Early transmission of 850, 700, and 500 mb data and stability index follows:
 85hhh TTT_aDD dffff 70hhh TTT_aDD dffff 50hhh TTT_aDD dffff i_si_s
 10197 Early transmission of 500 mb data and stability index follows: 50hhh TTT_aDD dffff i_si_s
 10198 Early transmission of 700 mb data and stability index follows: 70hhh TTT_aDD dffff i_si_s

4. TERMINAL AERODROME FORECAST (TAF)

An Aerodrome Forecast (TAF) is a concise statement of the expected meteorological conditions at an airport during a specified period (usually 24 hours). Each country is allowed to make modifications or exceptions to the code for use in each particular country. The TAF code, as described here, is the one used in the United States.

TAFs use the same weather code found in METAR weather reports. Detailed explanations of weather coding is found only in the METAR sections of this workbook.

4.1. FORMAT

A TAF report contains the following sequence of elements in the following order: (1) type of report; (2) ICAO station identifier; (3) date and time of origin; (4) valid period date and time; and (5) forecast conditions. Groups 4 and 5 may repeat as many times as needed to describe weather over the next 24 hours.

The international TAF also contains forecast temperature, icing, and turbulence. These three elements are not included in NWS prepared TAF's, and therefore will not be covered in this manual.

The U.S. has no requirement to forecast temperatures in an aerodrome forecast and the NWS will continue to forecast icing and turbulence in its AIRMETs and SIGMETs.

The report type header usually (but not always) appears as the first element in the TAF forecast, as either "TAF" or "TAF

AMD". An amended TAF is issued when the current TAF no longer adequately describes the ongoing weather or the forecaster feels the TAF is not representative of the current or expected weather.

Corrected (COR) or delayed (RTD) TAFs are identified only in the communications header which precedes the forecast text. The communications header is not displayed in most weather databases.

4.2. EXAMPLE

```
KOKC 051130Z 051212 14008KT 5SM BR BKN030 TEMPO 1316 1 1/2SM BR
FM1600 16010KT P6SM NSW SKC BECMG 2224 20013G20KT
4SM SHRA OVC020 PROB40 0006 2SM TSRA OVC008CB
BECMG 0608 21015KT P6SM NSW SCT040
```

4.3. BREAKDOWN

4.3.1. Station Identifier

The TAF code uses ICAO four-letter location identifiers as described in the METAR section.

4.3.2. Date and Time of Origin

This element is the UTC date and time the forecast is actually prepared. The format is a twodigit date and four-digit time followed, without a space, by the letter "Z." Routine TAFs are prepared and filed approximately one-half hour prior to scheduled issuance times. TAFs are scheduled for issuance four times daily at 0000Z, 0600Z, 1200Z, and 1800Z.

4.3.3. Valid Period Date and Time

The UTC valid period of the forecast is a two-digit date followed by the two-digit beginning hour and two-digit ending hour. Routine TAFs are valid for 24-hours. Valid periods beginning at 0000Z shall be indicated as "00." Valid periods ending at 0000Z shall be indicated as "24." The "24" indication applies to all time group ending times. In the case of an amended forecast, or a forecast which is corrected or delayed, the valid period may be for less than 24 hours. Where an airport or terminal operates on a part-time basis (less than 24 hours/day), the TAFs issued for those locations will have the abbreviated statement, "NIL AMD SKED AFT (closing time)Z," added to the end of the forecast. For the TAFs issued while these locations are closed, the word, "NIL," will appear in place of the forecast text. A delayed (RTD) forecast will then be issued for these locations after two complete observations are received.

4.3.4. Body of TAF

The body of the TAF is organized into the following pattern: Wind - Visibility - Weather - Sky Condition - Optional Data (Wind Shear).

The wind, visibility, and sky condition elements are always included in the initial time group of the forecast. Weather is included in the initial time group only if significant to aviation. If a significant, lasting change in any of the elements is expected during the valid period, a new time period with the changes is included. It should be noted that, with the exception of a FM group, the new time period will include only those elements which are expected to change; i.e., if a lowering of the visibility is expected but the wind is expected to remain the same, the new time period reflecting the lower visibility would not include a forecast wind. The forecast wind would remain the same as in the previous time period.

Any temporary conditions expected during a specific time period are included with that time period. The following describes the elements in the above format.

4.3.4.1. Wind. The wind group includes forecast surface winds. The surface wind forecast is the expected wind direction (first three digits) and speed (last two or three digits if 100 knots or greater). The contraction, KT, follows to denote the units of wind speed in knots. Wind gusts are noted by the letter G appended to the wind speed followed by the highest expected gust (two or three digits if 100 knots or greater). Calm winds (three knots or less) are encoded as "00000KT." Winds of 180 deg at 10 kt are "18010KT". Winds of 350 at 12 kt gusting to 20 kt are encoded "35012G20KT".

4.3.4.2. Variable Winds. Variable winds are encoded when it is impossible to forecast a wind direction due to winds associated with convective activity or low wind speeds. A variable wind direction is noted by VRB where the three digit direction usually appears. Winds variable at 16 gusting to 28 kt are encoded "VRB16G28KT".

4.3.4.3. Visibility. The expected prevailing visibility is forecast in statute miles and fractions of statute miles followed by SM to note the units of measure. Statute miles followed by fractions of statute miles are separated with a space, for example, 1 1/2SM. Forecast visibility greater than 6 statute miles is indicated by coding "P6SM." Directional or variable visibility is not forecasted and the visibility group is omitted if missing. Half a mile visibility is "1/2SM", two and a quarter mile visibility is "2 1/4SM", and visibility more than 6 miles is "P6SM".

4.3.4.4. CAVOK. Although not used in the U.S., the contraction "CAVOK" (ceiling and visibility OK) replaces visibility, weather, and sky condition if: (1) visibility is 10 kilometers or more; (2) there are no clouds below 1500 meters (5,000 feet) or below the highest minimum sector altitude, whichever is greater; (3) there are no cumulonimbus; (4) there are no significant weather phenomena.

4.3.4.5. Weather. The expected weather phenomenon or phenomena is coded in TAF reports using the same format, qualifiers, and phenomena contractions as METAR reports (except UP). Weather code is found in the METAR Section.

4.3.4.6. Obscurations to vision will be forecast whenever the prevailing visibility is forecast to be 6 statute miles or less. If no significant weather is expected to occur during a specific time period in the forecast, the weather group is omitted for that time period. If, after a time period in which significant weather has been forecast, a change to a forecast of no significant weather occurs, the contraction, NSW (No Significant Weather) will appear as the weather group in the new time period. However, NSW is only included in BECMG or TEMPO groups.

4.3.4.7. Sky Condition. TAF sky condition forecasts use the METAR format described in METAR Section. Cumulonimbus clouds (CB) are the only cloud type forecast in TAFs. When the sky is obscured due to a surfaced-based phenomenon, vertical visibility (VV) into the obscuration is forecast. The format for vertical visibility is "VV" followed by a three-digit height in hundreds of feet. Ceiling layers are not designated in the TAF code. For aviation purposes, the ceiling is the lowest broken or overcast layer or vertical visibility into a complete obscuration. A clear sky is encoded as "SKC". A 500 foot scattered layer, 2500 ft broken layer due to cumulonimbus, and 25000 ft broken layer is encoded "SCT005 BKN025CB BKN250". A vertical visibility of 800 ft is encoded "VV008".

4.3.4.8. Wind Shear. Wind shear is the forecast of non-convective low level winds (up to 2000 feet) and is entered after the sky conditions when wind shear is expected. The forecast includes the height of the wind shear followed by the wind direction and wind speed at the indicated height. Height is given in hundreds of feet AGL up to and including 2,000 feet. Wind shear is encoded with the contraction, WS, followed by a three-digit height, slant character "/", and winds at the height indicated in the same format as surface winds. The wind shear element is omitted if not expected to occur. An example: wind shear at 1000 ft with wind 180 at 40 kt is encoded "WS010/18040KT".

4.3.4.9. Miscellaneous. Other items not included in domestic TAF reports that may appear in international or some military reports as optional data following wind shear are: (1) Icing forecast - a coded group beginning with a 6 followed by five digits; (2) Turbulence forecast - a coded group beginning with a 5 followed by five digits; (3) Temperature forecast - a coded group beginning with a T followed by the temperature and time.

4.3.5. Probability forecast

The probability or chance of thunderstorms or other precipitation events occurring, along with associated weather conditions (wind, visibility, and sky conditions). The PROB40 group is used when the occurrence of thunderstorms or precipitation is in the 30% to less than 50% range, thus the probability value 40 is appended to the PROB contraction. This is followed by a four-digit group giving the beginning hour and ending hour of the time period during which the thunderstorms or precipitation is expected.

4.3.6. Forecast change indicators

The following change indicators are used when either a rapid, gradual, or temporary change is expected in some or all of the forecast meteorological conditions. Each change indicator marks a time group within the TAF report.

4.3.6.1. FROM group. The FM group is used when a rapid change, usually occurring in less than one hour, in prevailing conditions is expected. Typically, a rapid change of prevailing conditions to more or less a completely new set of prevailing conditions is associated with a synoptic feature passing through the terminal area (cold or warm frontal passage). Appended to the FM indicator is the four-digit hour and minute the change is expected to begin and continues until the next change group or until the end of the current forecast. A FM group will mark the beginning of a new line in a TAF report. Each FM group contains all the required elements -- wind, visibility, weather, and sky condition. Weather will be omitted in FM groups when it is not significant to aviation. FM groups will not include the contraction NSW.

4.3.6.2. BECMG group. The BECMG group is used when a gradual change in conditions is expected over a longer time period, usually two hours. The time period when the change is expected is a four-digit group with the beginning hour

and ending hour of the change period which follows the BECMG indicator. The gradual change will occur at an unspecified time within this time period. Only the changing forecast meteorological conditions are included in BECMG groups. The omitted conditions are carried over from the previous time group.

4.3.6.3. TEMPO group. The TEMPO group is used for any conditions in wind, visibility, weather, or sky condition which are expected to last for generally less than an hour at a time (occasional), and are expected to occur during less than half the time period. The TEMPO indicator is followed by a four-digit group giving the beginning hour and ending hour of the time period during which the temporary conditions are expected. Only the changing forecast meteorological conditions are included in TEMPO groups. The omitted conditions are carried over from the previous time group.

IDENTIFIER MAP



IDENTIFIERS BY CODE

The following is a listing of ICAO identifiers used in METAR reports for the United States and Canada.

CWAB	ON	Trowbridge	CWEH	SK	Eastend Cypress	CWIT	PQ	St Clothilde	CWNO	NT	Satah River
CWAC	BC	Nitinat Lake	CWEI	MB	Melita	CWIW	SK	Watrous East	CWNP	BC	Nakusp
CWAD	BC	Cape Mudge/Lighthouse	CWEJ	NF	Bow Drill III	CWIX	PQ	Mistook	CWNQ	PQ	Nicolet
CWAE	BC	Whistler	CWEK	BC	Grey Islet	CWIY	NB	St Leonard	CWNR	AB	Nakiska/Ridgetop
CWAF	PQ	Ile Rouge	CWEL	BC	Entrance Island	CWIY	NB	St Leonard	CWNR	BC	Nakiska Ridgetop
CWAG	NF	La Scie	CWEM	BC	Egg Island	CWIZ	PQ	L'Acadie	CWNT	BC	Turtle Mountain
CWAH	NS	Amherst	CWEO	PQ	Lac Eon	CWJA	AB	Jasper	CWNW	NT	Haldane River
CWAJ	ON	Erieau	CWEP	PE	East Point	CWJC	NT	Ennadai Lake	CWNX	BC	Nechako River
CWAN	BC	Amphitrite Point	CWEQ	MB	Swan River	CWJD	MB	Grand Rapids	CWNZ	ON	Nagagami
CWAQ	BC	Alert Bay	CWER	PQ	Ile D'Orleans	CWJE	NT	Skull Point	CWOA	NT	Camsell River
CWAQ	SK	Coronach	CWES	BC	Cape Scott/Lighthouse	CWJH	SK	Southend	CWOB	NT	Brevort Island
CWAR	NF	Argentia	CWET	ON	Egbert	CWJI	SK	Assiniboia/Airport	CWOC	PQ	New Carlisle
CWAS	BC	Pam Rocks	CWEU	NT	Eureka	CWJL	NT	Fort Liard	CWOD	PQ	Normandin
CWAU	BC	Dryad Point/Lighthouse	CWEV	NT	Ellice River	CWJM	ON	Upper Rideau Lake	CWOE	AB	Onefour
CWAV	AB	Sundre/Airport	CWEW	PQ	L'Assomption	CWJN	YT	Herschel Island	CWOF	NF	Port Basques
CWAW	NS	Shearwater/Jetty	CWEZ	BC	Saturna Island	CWJO	PQ	Jonquiere	CWOH	PQ	Ste Agathe Des Mont
CWAX	NF	Saint Anthony	CWFD	NT	Cape Dyer/Airport	CWJP	NF	Kelligrews	CWOI	YK	Iwavik Park
CWBA	AB	Bariff	CWFE	AB	Elk Island National Prk	CWJP	NT	Porter Lake	CWOK	SK	Elbow
CWBD	NF	Burgeo	CWFF	SK	Melfort	CWJR	BC	Creston	CWOL	NS	Sable Island
CWBE	ON	Killarney	CWFG	BC	Sartine Island	CWJT	PQ	St-Jovite	CWON	YT	Dawson
CWBF	NF	Burgeo	CWFH	NF	St Shotts	CWJU	BC	Langara	CWOV	AB	Primrose Lake/2
CWBG	BC	Big Creek	CWFJ	AB	Cardston	CWJV	BC	Vernon	CWOY	SK	Wynyard
CWBI	ON	Britt	CWFL	NT	Fort Reliance	CWJW	AB	Jasper Warden	CWPA	AB	Hendrickson
CWBJ	NT	Inner Whalebacks	CWFL	NT	Fort Reliance	CWJX	SK	Leader/Airport	CWPB	ON	Beausoliel Island
CWBK	NS	Caribou Point	CWFM	BC	Chatham Point/Lighthouse	CWJY	NT	Yathkyed Lake	CWPC	ON	Port Colborne
CWBL	MB	Bachelors Island	CWFN	SK	Cree Lake	CWJZ	NT	Dubawnt Lake	CWPD	PQ	Parc Des Laurentid
CWBM	AB	Beaverlodge	CWFO	MB	Flin Flon	CWKD	PQ	Bonnard	CWPE	NB	Point Lepreau
CWBO	AB	Brooks	CWFP	NF	Nain	CWKE	NT	Pelly Bay	CWPF	BC	Esquimalt/METOC
CWBR	NT	Brown Lake	CWFQ	PQ	Frelighsburg	CWKH	BC	Malahat	CWPH	PQ	Inukjuak
CWBT	ON	Longue Pointe De Mongue	CWFR	BC	Horsefly River	CWKI	BC	Kitimat	CWPI	BC	Pine Island
CWBU	SK	Nipawin	CWFU	NF	Little Macatina	CWKK	ON	Katatota Island	CWPJ	NB	Pt Escuminac
CWBV	NS	Beaver Island	CFWF	PQ	Baie Comeau	CWKM	YT	Komakuk Beach	CWPK	PQ	Parent
CWBY	NF	Port Menier	CWFX	NT	Colville Lake	CWKO	SK	Rockglen	CWPL	ON	Pickle Lake
CWBZ	PQ	St Anicet	CWFY	NF	Conne River	CWKR	ON	King	CWPO	MB	Pilot Mound
CWCA	NF	Cartwright	CWFZ	NT	Fort Reliance	CWKU	NT	Whiskey	CWPQ	PQ	Montreal-Est
CWCB	BC	Nanakwa Shoals	CWGB	BC	Ballenas Island	CWKV	BC	Hope Slide	CWPR	BC	Princeton
CWCD	SK	Saskatoon/Kernen	CWGD	ON	Goderich	CWKW	NF	Cape Kakkiviak	CWPS	ON	Long Point
CWCH	ON	Atikokan	CWGF	AB	Garden River	CWKX	BC	Dease Lake/CS	CWPT	NT	Yankee
CWCI	ON	Caribou Island	CWGH	ON	Grenadier Island	CWLX	AB	Lac La Biche	CWPU	BC	Puntzi Mountain
CWCJ	ON	Pukaskwa Park	CWGI	ON	Montreal River	CWLB	BC	Lucy Island/Lighthouse	CWPX	NT	Cape Peel West
CWCL	BC	Clinton	CWGL	ON	Lagoon City	CWLE	SK	Lucky Lake	CWPY	AB	Fort Chipewyan
CWCM	MB	Carberry	CWGM	AB	Waterton Park/Gate	CWLF	ON	Lansdowne House	CWPZ	BC	Burns Lake
CWCN	NT	Malloch Dome	CWGN	MB	Gretna	CWLG	NT	Little Chicago	CWQC	BC	Port Alberni
CWCO	ON	Collingwood	CWGO	MB	Gimli/Industrial	CWLH	PQ	St Lambert	CWQE	ON	Toronto Headlands
CWCP	NS	Baccaro Point	CWGP	BC	Pemberton/Airport	CWLI	NT	Liverpool Bay	CWQF	NT	Rabbit Kettle
CWCQ	NB	Chatham	CWQG	PQ	Roquemaure	CWLJ	SK	Meadow Lake	CWQH	PQ	Valcartier
CWCS	PQ	Cote-Ste-Cath	CWGR	PQ	Iles-De-La-Madelein	CWLM	BC	Victoria/Gonzales	CWQJ	PQ	Lennoxville
CWCT	AB	Coronation	CWGT	BC	Sisters Island	CWLO	MB	Shilo	CWQK	NF	Sedco 710
CWCU	ON	Barrie	CWGV	ON	Carp	CWLP	BC	Herbert Island	CWQL	BC	Race Rocks
CWCV	BC	Nootka/Lightstation	CWGW	BC	Sparwood	CWLQ	ON	North Bay/Nipissing	CWQM	AB	Lethbridge
CWCX	NT	Clut Lake	CWGX	MB	Gillam	CWLS	ON	Mount Forest	CWQN	PQ	Cap Rouge
CWCZ	BC	Addenbroke Island/ Lighthouse	CWGY	AB	Esther 1	CWLT	NT	Alert	CWQO	NT	Black Top Ridge
			CWGZ	NT	Grise Fiord/Airport	CWLX	SK	Waskesiu Lake	CWQP	PQ	Ile Bicquette
CWDA	NF	Englee	CWHA	AB	Highvale	CWLX	NT	Longstaff Bluff	CWQQ	ON	Point Petre
CWDB	YT	Burwash	CWHC	BC	Vancouver Harbour	CWLY	BC	Lytton/Readac	CWQR	AB	Lacombe Cda
CWDC	SK	Uranium City	CWHE	AB	Ellerslie	CWLZ	SK	Candle Lake	CWQS	PQ	Ice Aux Perroquets
CWDD	ON	Belle River	CWHI	AB	Three Hills	CWMA	BC	Masset	CWQV	PQ	Kindakun Rocks
CWDF	ON	Oliphant	CWHJ	BC	Holberg	CWMD	NT	Mould Bay/Camp	CWQW	PQ	Puinte Claveau
CWDH	NF	Daniel's Harbour	CWHK	AB	Carvel	CWME	BC	Cathedral Point	CWQX	PQ	Cape Whittle
CWDI	NF	Badger	CWHL	BC	Holland Rock	CWMH	NF	Mary's Harbour	CWQY	NT	Hanbury River
CWDJ	ON	Red Lake	CWHM	PQ	Varenes	CWMI	PQ	Miscou Island	CWQZ	BC	Quesnel
CWDJ	SK	Regina/University	CWHN	SK	Jimmy Lake	CWMJ	PQ	Maniwaki	CWRA	NF	Cape Race
CWDK	AB	Claresholm	CWHO	NF	Hopedale	CWMM	BC	Pine Meadows	CWRD	AB	Red Earth
CWDL	BC	Dease Lake	CWHP	PQ	Heath Point	CWMN	PQ	McGill	CWRE	MB	Ames
CWDM	PQ	Chevery	CWHS	NT	Bernard Harbour	CWMP	NT	Powder Lake	CWRF	NT	Pelly Bay/1
CWDN	ON	Wasaga Beach	CWHT	YT	Haines Junction	CWMQ	SK	Maple Creek	CWRH	NT	Resolution Island
CWDO	NF	Twillingate	CWHU	NF	Star Brook	CWMR	BC	Merry Island	CWRJ	SK	Rosetown East
CWDP	PQ	Manouane-Est	CWHV	PQ	Beauceville	CWMS	BC	Mcinnes Island	CWRK	ON	Bancroft
CWDQ	PQ	La Tuque	CWHW	NF	Comfort Cove	CWMT	NT	Lac La Martre	CWRN	AB	Rocky House
CWDS	NF	Saint Lawrence	CWHX	NS	Maritimes Weather Centre	CWMU	NT	Rampart River	CWRN	NS	Hart Island
CWDT	PQ	Chute Des Passes	CWHY	PQ	Mont-Orford	CWMV	NT	St Charles Creek	CWRO	BC	Rose Spit
CWDU	AB	Cop Upper	CWIC	NT	Isachsen	CWMW	PQ	Maniwaki	CWRP	NT	Nicholson Peninsula
CWDV	ON	Upsala	CWID	NT	Fort Providence	CWMX	AB	Mildred Lake	CWRQ	PQ	Trois Rivières
CWDW	MB	Dauphin	CWIE	NT	Indian River	CWMZ	ON	Western Island	CWRR	YT	Rock River
CWDX	NF	Daniels Harbour	CWIF	BC	Quatsino/LS	CWNB	ON	Southeast Shoal	CWRT	AB	Crowsnest
CWDZ	AB	Drumheller East	CWII	MB	Victoria Beach	CWNC	ON	Cobourg	CWRU	BC	Solander Island
CWEA	MB	Pinawa	CWIJ	NT	Lupin	CWND	NT	Pelly Island	CWRV	AB	Camrose
CWEB	BC	Estevan Point	CWIK	SK	Broadview	CWNE	PE	North Point	CWRW	NS	Fourchu Head
CWEC	ON	Welcome Island	CWIL	NT	Hat Island	CWNG	NT	Mount Arthur	CWRX	NT	Rowley Island
CWEE	PQ	Chamouchouane	CWIM	ON	Upsala	CWNH	PQ	Riviere Du Loup	CWRY	AB	Milk River
CWEF	NS	St Paul Island	CWIO	BC	Iskut River	CWNI	NT	Nipiterk Base	CWRZ	PQ	Cap D'Espoir
CWEG	AB	Edmonton/Alberta Weather Centre	CWIQ	AB	Primrose Lake	CWNL	ON	Great Duck Island	CWSA	NS	Sable Island
			CWIR	BC	Victoria/Marine	CWNM	BC	Nelson	CWSD	PE	Summerside
									CWSE	AB	Edmonton/Stony Plain

CWSF	PQ	Cap Madeleine	CWXW	NF	Alexis River	CYGW	PQ	Kuujuarapik/Airport	CYRL	ON	Red Lake/Airport
CWSG	PQ	Cap Chat	CWXZ	ON	Wawa	CYGX	MB	Gillam/Airport	CYRM	AB	Rocky Mountain House
CWSH	AB	Sousa Creek	CWYB	ON	North Bay/Weather Office	CYHA	PQ	Quaqaq/Airport	CYRT	NT	Rankin Inlet/Airport
CWSI	ON	Simcoe	CWYG	PE	Charlottetown	CYHB	SK	Hudson Bay	CYRV	BC	Revelstoke/Airport
CWSK	BC	Squamish Arpt	CWYH	NT	Rae Lakes	CYHD	ON	Dryden/Airport	CYSA	NS	Sable Island/Airport
CWSL	BC	Salmon Arm	CWYI	NF	Pools Island	CYHE	BC	Hope Airport	CYSB	ON	Sudbury/Airport
CWSO	ON	Exeter	CWYJ	BC	Victoria/University	CYHH	PQ	Nemiscau/Airport	CYSC	PQ	Sherbrooke/Airport
CWSP	BC	Sheringham Point	CWYK	NF	Cape Kiglapait	CYHI	NT	Holman Island/Airport	CYSD	AB	Suffield/Airport
CWSR	SK	Spiritwood West	CWYL	AB	Yoho Park	CYHK	NT	Gjoa Haven/Airport	CYSF	SK	Stony Rapids/Airport
CWSS	NB	St Stephen	CWYM	NT	Cape Mercy	CYHM	ON	Hamilton/Airport	CYSJ	NB	Saint John/Airport
CWST	NF	Saglek	CWYO	SK	Wynyard	CYHU	PQ	Montreal/Saint Hubert Airport	CYSK	NT	Sanikiluaq/Airport
CWST	PQ	La Pocatiere	CWYW	ON	Armstrong				CYSL	NB	Saint Leonard/Airport
CWSU	MB	Sprague	CWYY	BC	Osoyoos	CYHY	NT	Hay River/Airport	CYSM	NT	Fort Smith/Airport
CWSV	AB	Blue River	CWYZ	ON	Ontario Weather Center	CYHZ	NS	Halifax/Intl	CYSN	ON	St Catharines/Airport
CWSW	AB	Sparwood/Elk Valley	CWZA	BC	Agassiz	CYID	NS	Digby/Airport	CYSR	NT	Nanisivik/Airport
CWSY	NT	Sachs Harbour	CWZB	PQ	Port-Aux-Basques	CYIK	PQ	Ivujivik/Airport	CYSU	PE	Summerside/Military
CWSZ	MB	Fisher Branch	CWZC	ON	Moosonee/SAWR	CYIO	NT	Pond Inlet/Airport	CYSV	NF	Saglek/Airport
CWTA	PQ	Mc Tavish	CWZD	BC	Scudder Point	CYIV	MB	Island Lake/Airport	CYSY	NT	Sachs Harbour/Airport
CWTB	NF	Border	CWZG	AB	Banff	CYJF	NT	Fort Liard/Airport	CYTE	NT	Cape Dorset/Airport
CWTC	BC	Ethelda Bay	CWZK	BC	Hoskins Inlet	CYJT	NF	Stephenville/Airport	CYTH	MB	Thompson/Airport
CWTD	NT	Robertson Lake	CWZL	BC	Cumshewa Island	CYKA	BC	Kamloops/Airport	CYTJ	ON	Terrace Bay/SAWR
CWTE	NT	Trout Lake	CWZM	BC	Boat Bluff/Lighthouse	CYKB	PQ	Kangiqsualujuaq	CYTL	ON	Big Trout Lake
CWTF	SK	Beartooth Island	CWZN	NF	Sagona Island	CYKD	NT	Aklavik/Airport	CYTO	PQ	Tasiujaq
CWTG	PQ	Pointe Des Monts	CWZQ	NS	Grand Etang	CYKF	ON	Waterloo Well	CYTR	ON	Trenton/Military
CWTI	BC	Triple Island/Lighthouse	CWZV	BC	Cape St James	CYKG	PQ	Kangiqsuaq	CYTS	ON	Timmins/Airport
CWTL	ON	Big Trout	CWZV	NT	Virginia Falls	CYKJ	SK	Key Lake	CYTZ	ON	Toronto Island/Airport
CWTN	PQ	Cap Tourmente	CWZW	YT	Teslin	CYKL	NF	Schefferville/Airport	CYUA	YT	Shingle Point/Airport
CWTO	ON	Toronto/AES HQ	CWZZ	NF	Saglek/Bay	CYKO	PQ	Akulivik/Airport	CYUB	NT	Tuktoyaktuk/Airport
CWTP	NF	Holyrood	CYAD	PQ	La Grande III	CYKQ	PQ	Waskaganish/Airport	CYUI	NT	Cape Young/Airport
CWTU	NF	Tukialik Bay	CYAH	PQ	La Grande IV/Airport	CYKY	SK	Kindersley/Airport	CYUJ	NT	Lady Franklin Point
CWTW	NT	Tuktoyaktuk	CYAJ	NT	Komakuk Beach/Airport	CYKZ	ON	Toronto/Buttonsville	CYUK	NT	Byron Bay/Airport
CWTX	ON	Royal Island	CYAM	ON	Sault Ste Marie	CYLA	PQ	Apaluk	CYUL	PQ	Montreal/Dorval
CWTY	PQ	Trois Rivières	CYAS	PQ	Kangirsuk	CYLC	NT	Lake Harbour/Airport	CYUQ	NT	Jenny Lind Island/Airport
CWTZ	ON	Toronto Island	CYAW	NS	Shearwater/Military	CYLD	ON	Chapleau/Airport	CYUR	NT	Gladman Point/Airport
CWUD	NT	Cape Hooper	CYAY	NF	Saint Anthony/Airport	CYLY	SK	Meadow Lake/Airport	CYUS	NT	Shepherd Bay/Airport
CWUL	PQ	Quebec/Forecast Office	CYAZ	BC	Tofino/Airport	CYLL	SK	Lloydminster/Airport	CYUT	NT	Repulse Bay/Airport
CWUM	YT	Faro	CYBB	NT	Pelly Bay/Airport	CYLT	NT	Alert/Airport	CYUV	NT	Longstaff Bluff/Airport
CWUN	AB	Vulcan	CYBC	PQ	Baie Comeau/Airport	CYLU	PQ	Kangiqsualujuaq	CYUX	NT	Hall Beach/Airport
CWUP	NT	Cape Hooper	CYBD	BC	Bella Coola/Airport	CYLW	BC	Kelowna/Airport	CYUY	PQ	Rouyn/Airport
CWUR	NS	Truro	CYBG	PQ	Bagotville/Military	CYMA	YT	Mayo/Airport	CYVC	SK	La Ronge/Airport
CWUS	BC	Summerland	CYBK	NT	Baker Lake/Airport	CYMD	NT	Mould Bay/Airport	CYVM	NT	Broughton Island/Airport
CWUT	MB	Shoal Lake/Airport	CYBL	BC	Campbell River/Airport	CYMH	NF	Mary's Harbour	CYVN	NT	Cape Dyer/Airport
CWUU	NT	Mackay Inlet	CYBN	ON	Borden	CYMJ	SK	Moose Jaw/Military	CYVO	PQ	Val D'Or/Airport
CWUW	NT	Dewar Lakes	CYBR	MB	Brandon/Airport	CYML	PQ	Charlevoix/Murray Bay/ Airport	CYVP	PQ	Kuujuuaq/Airport
CWUY	PQ	Rouyn	CYBU	SK	Nipawin/Airport				CYVQ	NT	Norman Wells/Airport
CWVA	NF	Bonavista	CYBV	MB	Berens River/Airport	CYMM	AB	Fort McMurray/Airport	CYVR	BC	Vancouver/Intl
CWVC	SA	Swift Current	CYBW	AB	Calgary/Springbank	CYMO	ON	Moosonee	CYVT	SK	Buffalo Narrows
CWVD	NT	Broughton Island	CYBX	NF	Blanc Sablon/Airport	CYMT	PQ	Chibougamau-Chapais	CYVV	ON	Warton/Airport
CWVE	NS	Valleyfield	CYCA	NF	Cartwright	CYMU	PQ	Umiuq	CYWA	ON	Petawawa/Airport
CWVF	BC	Sand Heads/LS	CYCB	NT	Cambridge Bay/Airport	CYMX	PQ	Montreal/Mirabel	CYWG	MB	Winnipeg/Intl
CWVI	AB	Vegreville	CYCD	BC	Nanaimo/Airport	CYNA	PQ	Natashquan/Airport	CYWH	BC	Victoria Harbour
CWVJ	MB	Vivian	CYCG	BC	Castlegar/Airport	CYND	PQ	Gatineau/Airport	CYWJ	NT	Fort Franklin/Airport
CWVK	BC	Vernon	CYCH	NB	Chatham/Military	CYNE	MB	Norway House/Airport	CYWK	NF	Wabush Lake/Airport
CWVN	SK	Val Marie Se	CYCL	NB	Charlo/Airport	CYNM	PQ	Matagami/Airport	CYWL	BC	Williams Lake/Airport
CWVO	AB	Vauxhall	CYCO	NT	Coppermine/Airport	CYOC	YT	Old Crow/Airport	CYWO	NT	Lupin/Airport
CWVP	SK	Cypress Hills Park	CYCP	AB	Blue River	CYOD	AB	Cold Lake/Military	CYWW	AB	Wainwright/Airport
CWVQ	PQ	Ste Anne De Bell	CYCQ	BC	Chetwynd/Airport	CYOJ	AB	High Level/Airport	CYWY	NT	Wrigley/Airport
CWVR	BC	Pacific Weather Center	CYCS	NT	Chesterfield Inlet	CYOW	ON	Ottawa/Intl	CYXC	BC	Cranbrook/Airport
CWVT	SK	Buffalo Narrows	CYCT	AB	Coronation	CYOY	PQ	Valcartier/Airport	CYXD	AB	Edmonton/Municipal
CWVU	NS	Brier Island	CYCX	NB	Gagetown/CFB	CYPA	SK	Prince Albert/Airport	CYXE	SK	Saskatoon/Airport
CWVV	BC	Victoria/Hartland	CYCY	NT	Clyde River/Airport	CYPB	BC	Port Alberni/Airport	CYXH	AB	Medicine Hat/Airport
CWVW	NF	Grates Cove	CYDA	YT	Dawson/Airport	CYPC	NT	Paulatuk/Airport	CYXJ	BC	Fort St. John/Airport
CWVX	NT	Brevort Island	CYDB	YT	Burwash/Airport	CYPD	NS	Port Hawkesbury	CYXL	ON	Sioux Lookout/Airport
CWVY	PQ	Villeroy	CYDC	BC	Princeton/Airport	CYPE	AB	Peace River/Airport	CYXN	NT	Whale Cove/Airport
CWWA	BC	Vancouver/West	CYDF	NF	Deer Lake/Airport	CYPG	MB	Portage La Prairie	CYXP	PQ	Pangnirtung/Airport
CWWB	BC	West End Cypress	CYDL	BC	Dease Lake/FD Point	CYPH	PQ	Inukjuak	CYXQ	YT	Beaver Creek/Airport
CWWB	ON	Burlington Piers	CYDM	YT	Ross River/Airport	CYPL	ON	Pickle Lake	CYXR	ON	Earlington/Airport
CWWC	SK	Collins Bay	CYDN	MB	Dauphin/Airport	CYPN	PQ	Port Menier	CYXS	BC	Prince George/Airport
CWWE	NS	Western Head	CYDP	NF	Nain/Airport	CYPQ	ON	Peterborough/Airport	CYXT	BC	Terrace/Airport
CWWF	SK	Weyburn	CYDQ	BC	Dawson Creek/Airport	CYPR	BC	Prince Rupert/Airport	CYXU	ON	London/Airport
CWWG	MB	Prairie/Weather Center	CYDR	ON	Dryden	CYPW	BC	Powell River/Airport	CYXX	BC	Abbotsford/Airport
CWWK	BC	White Rock	CYED	AB	Edmonton/Namoo	CYPX	PQ	Povungnituk	CYXY	YT	Whitehorse/Airport
CWWL	BC	Bonilla Island	CYEG	AB	Edmonton/Intl	CYPY	AB	Fort Chipewyan/Airport	CYXZ	ON	Wawa/Airport
CWWM	NT	Grant	CYEK	NT	Arviat/Airport	CYPZ	BC	Burns Lake	CYYB	ON	North Bay/Airport
CWWN	ON	Peawanuck	CYEL	ON	Elliot Lake/SAWR	CYQA	ON	Muskoka/Airport	CYYC	AB	Calgary/Sundre
CWWO	AB	Willow Creek	CYEN	SK	Estevan/Airport	CYQB	PQ	Quebec/Airport	CYYD	BC	Smithers/Airport
CWWP	MB	Wasagamung	CYET	AB	Edson/Airport	CYQD	MB	The Pas/Airport	CYYE	BC	Fort Nelson/Airport
CWWS	MB	George Island	CYEU	NT	Eureka	CYQF	AB	Red Deer/Airport	CYYF	BC	Penticton/Airport
CWWU	BC	Ingenika Point	CYEV	NT	Inuvik/Airport	CYQG	ON	Windsor/Airport	CYYG	PE	Charlottetown/Arpt
CWWV	NF	Killinek	CYFB	NT	Frobisher/Iqaluit	CYQH	YT	Watson Lake/Airport	CYYH	NT	Spence Bay/Airport
CWWX	ON	Cove Island	CYFC	NB	Fredericton/Airport	CYQI	NS	Yarmouth/Airport	CYYJ	BC	Victoria/Intl
CWWY	NS	Barrington	CYFO	MB	Flin Flon/Airport	CYQK	ON	Kenora/Airport	CYYL	MB	Lynn Lake/Airport
CWWZ	ON	Port Weller	CYFR	NT	Fort Resolution	CYQL	AB	Lethbridge/Airport	CYYN	SK	Swift Current/Airport
CWXA	AB	Bow Valley	CYFS	NT	Fort Simpson/Airport	CYQM	NB	Moncton/Airport	CYYQ	NB	Churchill/Airport
CWXH	BC	Holberg	CYFT	NF	Makkovik/Airport	CYQQ	BC	Comox/Military	CYYR	NF	Goose Bay/Airport
CWXI	PQ	Ferrolle Point	CYGE	BC	Golden/Airport	CYQR	SK	Regina/Airport	CYYT	NF	Saint John's/Airport
CWXJ	NF	Bull Arm	CYGH	NT	Fort Good Hope/Airport	CYQT	ON	Thunder Bay/Airport	CYYU	ON	Kapuskasing/Airport
CWXK	NT	Clinton Point	CYGI	ON	Kingston Airport	CYQU	AB	Grande Prairie/Airport	CYYW	ON	Armstrong
CWXL	AB	Bow Island	CYGL	PQ	La Grande Riviere	CYQV	SK	Yorkton/Airport	CYYY	PQ	Mont Joli/Airport
CWXM	BC	Helmcken Island	CYGM	MB	Gimli	CYQW	SK	North Battleford	CYYZ	ON	Toronto/Pearson
CWYO	NS	Rowan Gorilla/III	CYGP	PQ	Gaspel/Airport	CYQX	NF	Gander/Intl	CYZE	ON	Gore Bay/Airport
CWXP	NT	Pangnirtung	CYGO	ON	Geraldton/Airport	CYQY	NS	Sydney/Airport	CYZF	NT	Yellowknife/Airport
CWXR	NT	Crocker River	CYGR	PQ	Iles De La Madeleine	CYQZ	BC	Quesnel/Airport	CYZG	PQ	Salluit/Airport
CWXS	NB	Bas Caraquet	CYGT	NT	Igloolik/Airport	CYRB	NT	Resolute/Airport	CYZH	AB	Slave Lake/Airport
CWXX	NT	Back River	CYGV	PQ	Havre Saint Pierre	CYRJ	PQ	Roberval/Airport	CYZP	BC	Sandspit/Airport

CYZR	ON	Sarnia/Airport	K21G	OH	Marblehead/CGS	K43S	WA	West Point/CGLS	K79W	NC	Oregon Inlet/CGS
CYZS	NT	Coral Harbour/Airport	K22G	OH	Lorain/Elyria/Regional	K44N	NY	Millbrook/Sky Acres	K7A9	GA	Plains/Peterson Field
CYZT	BC	Port Hardy/Airport	K23B	ME	Sequin Island/CGLS	K44W	NC	Diamond Shoals/CGS	K7G2	OH	Ashtabula
CYZU	AB	Whitcourt/Airport	K23G	OH	Cleveland/Harbor CGS	K44Y	MI	Sault Ste Marie/CGS	K7L1	UT	Joseph
CYZV	PQ	Sept-Iles/Airport	K24B	ME	West Quoddy Head/CGLS	K45B	MA	Brant Point/CGS	K7MY	NJ	Mount Holly/South Jersey
CYZW	YT	Teslin/Airport	K24G	OH	Toledo/CGS	K45N	NY	Bay Shore/Fire Island	K7R1	LA	Golden Tri
CYZX	NS	Greenwood/CFB	K25B	NH	Portsmouth Harbor	K45W	NC	Oracoke/CGS	K7R2	LA	Leeville
CYZY	BC	Mackenzie/Airport	K25G	PA	Erie/CGS	K46W	NC	Frying Pan Shoals	K7R3	LA	Amelia/Lake Palour
CZAG	PQ	La Grande IV/Readac	K26B	NH	Isle Of Shoals/CGS	K47C	WI	Boscobel	K7R4	LA	Intracoastal City
CZBF	NB	Bathurst/Airport	K26G	NY	Rochester/CGLS	K48N	NY	Montauk Point/CGLS	K7R5	LA	Cameron/Heliport
CZDI	NF	Churchill Falls	K27B	ME	Cape Neddick/CGLS	K49J	SC	Hilton Head	K7R8	LA	South Marsh Island
CZED	AB	Edmonton/Stony Plain/Test	K27G	OH	Lorain/CGS	K49N	NY	East Moriches/CGS	K81J	FL	Destin/Ft Walton Beach
CZEM	PQ	Eastmain River/Airport	K27U	ID	Salmon	K4BK	OR	Brookings	K82S	WA	Cape Disappointment
CZFA	YT	Faro/Airport	K27Y	MI	Grand Marais/CGS	K4BL	UT	Blanding	K83S	OR	Coos Bay/CGS
CZFM	NT	Fort McPherson/Airport	K28G	NY	Oswego/CGS	K4BQ	MT	Broadus	K84J	SC	Folly Beach/LORAN
CZFN	NT	Fort Norman/Airport	K28K	LA	Grcyn Bk52/SAWRS	K4CB	CA	Cuddeback/Gunnery Range	K84Q	CA	Blunts Reef/CGS
CZHP	AB	High Prairie/Airport	K28T	TX	Sabine Pass	K4CR	NM	Corona/Lincoln	K84S	WA	Grays Harbor/CGS
CZNB	ON	North Bay/Readac	K28Y	MI	North Manitou Shoal	K4DG	WY	Douglas	K85J	SC	Georgetown/CGLS
CZOC	YK	Old Crow	K29B	MA	Boston/Hull/CGLS	K4HV	UT	Hanksville	K85Q	CA	Santa Cruz/Harbor
CZPC	AB	Pincher Creek/Airport	K29G	OH	Ravenna/Portage County	K4L7	CA	Hermosa Beach Pier	K85S	OR	Siuslaw River/CGS
CZPK	NT	Paulatuk	K29J	SC	Rock Hill	K4LJ	CO	Lamar/Municipal	K86J	SC	Sullivan's Island/CGS
CZST	BC	Stewart/Airport	K29Y	WI	Devils Island/LS	K4LW	OR	Lakeview	K86Q	CA	St George Reef/CGLS
CZUB	NT	Tuktoyaktuk	K2A9	GA	Atlanta/Peachtree	K4MR	NM	Melrose/Gunnery Range	K86S	WA	Smith Island/CGLS
CZUE	NT	Cape Parry/Airport	K2B4	RI	Newport	K4MY	NM	Moriarty	K87D	MN	Dodge Center
CZUM	NF	Churchill Falls	K2B6	MA	North Adams	K4OM	WA	Omak	K87Q	CA	Point Piedras Blancas/CG
CZVL	AB	Edmonton/Villeneuve	K2B8	ME	Portland Head/CGLS	K4S2	OR	Hood Canal Bridge	K87S	WA	Quillayute River/CGLS
CZVV	ON	Warton/Readac	K2C2	NM	White Sands/Test Range	K4SL	NM	Cuba/Torreon	K88Q	CA	Samao/Humboldt Bay
CZWN	AB	Wainwright/CFB	K2DP	NC	Dare County/Gunnery Range	K4SU	CA	Superior Valley/Gunnery	K88S	OR	Tillamook Bay/CGS
CZXS	BC	Prince George/Rawinsonde				K4SV	ID	Strevell	K89Q	CA	Point Arena/CGLS
K01R	LA	Claiborne Range/AFS	K2EG	FL	Eglin AFB/Range C52A	K4SZ	MO	St Charles	K8B8	NH	Wolfeboro/Lakes Regional
K01T	LA	High Island	K2G5	MI	Grosse Ile	K4V5	CO	Durango/AWRS	K8B9	ME	Egg Rock/LS
K02R	LA	Peason Ridge/Range	K2G6	PA	Meadville/Port Mead	K50C	AK	Ocean Cape/CGS	K8D3	SD	Sisseton
K03Y	MN	Hallock	K2H1	CA	Huntington Beach/Oil	K50N	NY	Rockaway/CGS	K8FR	OK	Falcon Range
K07S	WA	Deer Park/Airport	K2I4	OH	Columbus/Bolton Field	K50Q	CA	Farallon Island	K8G5	PA	Saint Marys/Municipal
K09G	MI	Mason	K2I8	OH	Newark	K51N	NY	Short Beach/CGS	K8R0	AL	Pascagoula/CGS
K0A6	NC	Gastonia	K2L6	CA	Marina Del Rey	K51Q	CA	San Francisco/PBS	K8R1	AL	Mobile/Point CGS
K0B6	MA	Chatham	K2L7	CA	Solana Beach	K52N	NJ	Wildwood	K8R3	LA	Southwest Pass/CGS
K0B9	ME	Goat Island	K2P3	SC	Poinsett Range	K52Q	CA	Davis Point/AWRS	K8R5	LA	Grand Isle/CGS
K0E4	AZ	Payson	K2R8	TX	Port Aransas	K53D	MN	Glenwood	K8R6	LA	Calcasieu/CGS
K0G6	PA	Meadville/Port Mead	K2S9	WA	Willapa Harbor	K53Q	CA	Pillar Point/El Granda	K8R7	TX	Sabine Pass/CGS
K0L3	CA	Zuma Beach	K2V3	CO	Meeker	K53S	WA	Point Wilson/CGLS	K8R8	TX	Freeport/CGS
K0V1	SD	Custer	K2V9	CO	Gunnison/AWRS	K54N	NJ	Manasquan/CGS	K8R9	TX	Port O'Connor/CGS
K0V2	CO	Salida/Alexander	K2WX	SD	Buffalo	K54Q	CA	Castroville/Moss	K8S7	WA	Neah Bay
K0V7	AZ	Kayenta	K30B	MA	Sandwich/CGS	K54Y	MN	Rush City	K8W5	NC	Hatteras/Mitchell
K0W4	MD	Kentmorr Marina	K30G	MI	Saginaw River/CGS	K55N	NJ	Atlantic City/CGS	K8Y8	MN	Crane Lake
K0W8	VA	Chincoteague	K30N	CT	Faulkner Island/CGLS	K56N	NJ	Sandy Hook/CGS	K90J	FL	Astor/NAS
K0Y2	WI	Sturgeon Bay	K30Y	MN	Duluth Harbor/CGS	K580	VT	Williamantic/Windham	K90S	OR	Umpqua River/CGS
K0Y7	IA	Lamoni	K31B	MA	Chatham/CGS	K585	VT	Bennington/State	K91Q	CA	Point Blunt/CGLS
K0Z0	AK	Deering	K31G	MI	Belle Isle/CGS	K5BI	AK	Big River Lake	K91S	WA	Alki Point/CGLS
K0Z5	HI	Kilauea Pt/Lighthouse	K31Y	MI	Eagle Harbor/CGLS	K5C0	CO	Burlington	K92Q	CA	Bodega Bay/CGLS
K10A	AK	Nuiqsut	K32B	MA	Gay Head/CGS	K5CD	AK	Chandalar Shelf	K92S	OR	Cape Blanco/CGS
K12B	NH	New Castles/CGLS	K32N	CT	Little Gulf Island/LS	K5CE	AK	Cape Saint Elias	K93Q	CA	Pigeon Point/CGLS
K12N	NJ	Andover	K32Y	MI	Portage/CGS	K5EA	AK	Healy River/Airport	K93S	WA	Cape Flattery/CGLS
K13A	AZ	Nogales	K33B	MA	Buzzards Bay/CGSL	K5GN	AK	Tahnetta Pass	K94B	ME	Wood Island/LS
K13G	NY	Niagara/CGS	K33G	MI	Port Huron/CGS	K5HN	AK	Cape Hinchinbrook	K94Q	CA	Point Bonita/CGLS
K14B	ME	Great Duck Island/CGLS	K34B	MA	Gloucester/CGS	K5HR	AK	Hayes River	K95B	NY	Cape Vincent
K14C	MI	Frankfort/CGS	K34N	NY	Eatons Neck/CGS	K5I3	KY	Pikeville	K95Q	CA	Point Pinos/CGLS
K15B	ME	Halfway Rock/CGLS	K34Y	MI	Marquette/CGLS	K5J0	OR	John Day/State Airport	K95S	OR	Yaquina Bay/CGS
K15C	WI	Milwaukee/CGLS	K35B	MA	Merrimac River/CGS	K5L8	CA	Long Beach	K96B	ME	Owl's Head/LS
K16B	ME	Heron Neck/CGLS	K36B	MA	Race Point/CGS	K5MK	AK	McKinley Park	K96Q	CA	Trinidad Head/CGLS
K16C	WI	Kenosha/CGS	K36Y	MI	Pt Betsie/Frankfort	K5MU	AK	Mt McKinley Natl Park	K96S	WA	New Dungeness/CGS
K17C	MI	Ludington/CGS	K37B	MA	Scituate/CGS	K5PX	AK	Paxson	K97Q	CA	Point Reyes/CGLS
K18B	ME	Monhegan/Manana Isl	K37W	NC	Erwin	K5R0	TX	East Addition B323	K97S	WA	Point No Point/CGS
K18C	IN	Michigan City/CGS	K38Y	MI	Saint Ignace	K5SO	AK	Snowshoe Lake	K98Q	CA	Rio Vista/CGLS
K18N	CT	New London Ledge/CGS	K39J	AL	Evergreen/Middleton ASOS	K5SZ	AK	Siana/Airport	K99Q	CA	Port Chicago
K19C	MI	Muskegon/CGS	K39Y	MI	Tawas Point/CGS	K5WD	AK	Seward	K99S	WA	Point Robinson/CGLS
K19D	MN	Mora/Municipal	K3B1	ME	Greenville	K5WO	AK	Lazy Mtn/Wolverine	K9B2	VT	Newport
K19G	NY	Buffalo/CGS	K3B2	MA	Marshfield/Airport	K5WT	AK	Whittier	K9B5	ME	Bear Island/CGS
K19R	LA	Ship Shoal/Platform	K3DU	MT	Drummond	K5WW	AK	Wainwright	K9B9	ME	Wiscasset
K1B5	NH	Franconia	K3HE	MI	Howell	K61N	DE	Indian River/CGS	K9BB	NV	Wells
K1F0	OK	Ardmore/Executive	K3HT	MT	Harlowton	K61W	MD	Annapolis/CGS	K9F2	LA	Fourchon/SAWRS
K1G7	LA	Mississippi Canyon	K3KM	KS	Wichita/Col Jabara	K62G	IL	Wilmette/Marines	K9L0	CA	Dana Point
K1J1	GA	Saint Simon Island/CGS	K3L3	CA	Newport Beach	K62W	VA	Cape Henry/CGLS	K9R0	TX	Galveston/CGS
K1J2	GA	Tybee/CGS	K3O6	CA	Treasure Island	K62Y	MN	Two Harbors	K9R1	TX	Port Aransas/CGS
K1J3	FL	Ponce De Leon Inlet	K3O1	IA	Lamoni	K63G	IL	Chicago/Calumet CGS	K9R3	TX	Port Isabel/CGS
K1J4	FL	Cape San Blas/CGS	K3R5	TX	New Braunfels	K63W	VA	Milford Haven/CGS	K9U3	NV	Austin
K1J5	FL	Santa Rosa/CGS	K3RN	MI	Graying AF Range	K64W	VA	Parramore Beach	K9V9	SD	Chamberlain
K1K5	KS	Elkhart	K3S2	OR	Aurora State	K65W	MD	Thomas Point/CGS	K9Z0	AK	Klawock/Seaplane
K1L2	CA	Santa Monica/Pier	K3SE	IA	Spencer	K66W	MD	Cove Point/CGLS	K9Z1	AK	Klawock
K1O5	CA	Montague	K3SM	IN	Shelbyville	K67B	RI	Castle Hill/CGS	KA23	AK	Portage
K1S4	OR	Portland/Scappoose	K3SZ	MO	St Charles	K67W	MD	Stillpond/CGS	KAAT	CA	Alturas
K1S4	OR	Scappoose	K3TH	MT	Thompson Falls	K6A0	GA	Cartersville	KABC	AK	Bethel/NEXRAD
K1V1	CO	Rifle/AWRS	K3U6	MT	Baker/Municipal	K6A3	NC	Andrews	KABE	PA	Allentown-Bethlehem
K1V4	VT	St Johnsbury	K3V8	LA	Venice Heliport	K6B1	NH	Rochester/Skyhaven	KABI	TX	Abilene/Municipal
K1W9	NC	Wrightsville Beach	K3W4	NC	Swansboro/Bogue	K6L9	CA	Huntington Beach	KABQ	NM	Albuquerque/Intl
K1Y7	AZ	Yuma/Proving Grounds	K40B	ME	Clayton Lake	K6R0	LA	Slidell/Municipal	KABR	SD	Aberdeen/Regional/%0309
K1Z2	HI	Upolu Point/CGS	K40G	AZ	Grand Canyon/Valley	K6R6	TX	Sanderson/Dryden	KABX	NM	Albuquerque/NEXRAD/%0311
K1Z4	HI	Koloa (CGS)	K40J	FL	Perry/Foley	K6V2	SD	Pine Ridge			
K1Z6	HI	French Frigate Shls	K40N	PA	Chester County/Airport	K75S	WA	Burlington/Mt Vernon	KABY	GA	Albany/Municipal
K20B	ME	Rockland/CGS	K40Y	MI	Thunder Bay Island	K76D	MI	Bad Axe/Memorial	KACB	MI	Bellaire/Antrim County
K20C	MI	Saint Joseph/CGS	K41G	MI	Bath	K76S	WA	Oak Harbor Airpark	KACG	AK	Sitka/NEXRAD
K20G	OH	Ashtabula/CGS	K41I	LA	Eugene Island/B266C	K77M	ID	Malta	KACK	MA	Nantucket/Memorial
K20J	ME	West Jonesport/CGS	K41Y	MI	St Clair Shores/CGS	K77W	NC	Cape Lookout/CGS	KACR	AK	Anchorage/Alaska RFC
K21A	AL	Alabaster/Shelby County	K43F	MN	Litchfield/Municipal	K78W	NC	South Port/Oak Island CGS	KACT	TX	Waco-Madison/Cooper
K21C	WI	Sheboygan/CGS	K43M	MD	Fort Ritchie/Site	K79J	AL	Andalusia/Opp Airport	KACV	CA	Arcata/Eureka Airport

KACY	NJ	Atlantic City/Intl	KASX	WI	Ashland/Kennedy	KBLV	IL	Belleville/Scott AFB	KCGA	AK	Craig/Seaplane
KADG	MI	Adrian	KATL	GA	Atlanta/Intl	KBLX	MT	Billings/Yellowstone/%0318	KCGF	OH	Cleveland/Cuyahoga
KADK	AK	Adak/NAS Mitchell	KATS	NM	Artesia	KBMG	IN	Bloomington/Monroe	KCGI	MO	Cape Girardeau/Municipal
KADM	OK	Ardmore/Municipal	KATU	AK	Attu/Casco Cove/CGS	KBML	IL	Bloomington/Normal	KCGX	IL	Chicago/Meigs
KADQ	AK	Kodiak	KATW	WI	Appleton/Outagamie	KBML	NH	Berlin/Municipal	KCGZ	AZ	Casa Grande
KADS	TX	Dallas/Addison Airport	KATX	WA	Camano Island/%0542	KBMQ	TX	Burnet	KCHA	TN	Chattanooga/Lovell
KADU	IA	Audubon	KATY	SD	Watertown/Municipal	KBMX	AL	Birmingham/Shelby/%0320	KCHH	MA	Chatham
KADW	MD	Suitland/Andrews AFB	KAUB	AL	Auburn/University	KBNA	TN	Nashville/Metro	KCHI	IL	Chicago/WSFO
KAEC	AK	Nome/NEXRAD	KAUG	ME	Augusta State/Airport	KBNG	CA	Banning/Municipal	KCHO	VA	Charlottesville
KAEI	MN	Albert Lea	KAUH	NE	Aurora	KBNO	OR	Burns/Municipal	KCHP	AK	Circle Hot Springs
KAEX	LA	Alexandria/England AFB	KAUM	MN	Austin/Municipal	KBNW	IA	Boone/Municipal	KCHS	SC	Charleston/Municipal
KAFC	AK	Anchorage/WFO	KAUO	AL	Auburn/Opelika Airport	KBNY	CA	Burney	KCID	CA	Chico/Municipal
KAFF	CO	Air Force Academy	KAUS	TX	Austin/Mueller	KBOI	ID	Boise/Municipal	KCID	IA	Cedar Rapids/Municipal
KAFG	AK	Fairbanks/WFO	KAUW	WI	Wausau/Municipal	KBOS	MA	Boston/Logan/Intl	KCIN	IA	Carroll
KAJF	PA	Washington	KAVC	VA	Meck/Brunswick	KBOU	CO	Denver/Boulder/NWSFO	KCIU	MI	Chippewa/Intl
KAFM	AK	Ambler	KAVL	NC	Asheville/Municipal	KBOW	FL	Bartow/Municipal	KCJE	TN	Cookeville/Putnam
KAFN	NH	Jaffrey/Municipal	KAVP	PA	Wilkes-Barre/Scranton	KBOX	MA	Boston/Taunton/%0323	KCJR	VA	Culpeper
KAFW	TX	Fort Worth/Alliance	KAVX	CA	Avalon/Catalina	KBPI	WY	Big Piney	KCKB	WV	Clarksburg/Benedum
KAGC	PA	Pittsburgh/Allegheny	KAWG	IA	Washington	KBPK	AR	Mountain Home/Baxter	KCKC	MN	Grand Marais
KAGN	AK	Angoon/Seaplane	KAWH	NV	Wildhorse/Reservoir	KBPT	TX	Beaumont/Port Arthur	KCKL	AL	Centerville/Bibb County
KAGR	FL	Avon Park/Gunnery Range	KAWI	AK	Wainwright	KBQT	GA	Brunswick/Glyncro	KCKN	MN	Crookston/Municipal
KAGS	GA	Augusta/Bush Field	KAWM	AR	West Memphis/Municipal	KBRD	MN	Brainerd/Wieland	KCKV	TN	Clarksville/Outlaw
KAHG	AK	Anchorage/Nikiski/ NEXRAD	KAWO	WA	Arlington	KBRL	IA	Burlington/Municipal	KCLE	OH	Cleveland/Hopkins/ NWSFO/%0340
KAHN	GA	Athens/Municipal	KAXA	IA	Algona	KBRO	TX	Brownsville/Intl/%0324	KCLI	WI	Clintonville
KAHP	AK	Port Alexander	KAXN	MN	Alexandria/Chandler	KBRW	AK	Barrow/Post-Rogers	KCLL	TX	College Station
KAHT	AK	Amchitka Island	KAXO	LA	Grand Isle/SAWRS	KBSM	TX	Austin/Bergstrom/Intl	KCLM	WA	Port Angeles/Intl
KAlA	NE	Alliance/Municipal	KAYE	MA	Fort Devens/Ayer	KBTI	AK	Barter Island/DEW	KCLT	NC	Charlotte/Douglas
KAlD	IN	Anderson/Municipal	KAYS	GA	Waycross/Ware County	KBLT	MI	Battle Creek/Kellogg	KCLX	SC	Charleston/Grays/%0333
KAlG	WI	Antigo	KAZO	MI	Kalamazoo/Intl Arpt	KBTM	MT	Butte/Bert Mooney	KCMA	CA	Camarillo
KAlH	AK	Middleton Island/NEXRAD	KB20	ME	Fryeburg	KBTP	PA	Butler County	KCMH	OH	Columbus/Port Columbus Intl
KAlN	AK	Wainwright/DEW	KB23	NV	Battle Mountain	KBTR	LA	Baton Rouge/Ryan	KCMI	IL	Champaign/Urbana
KAlO	IA	Atlantic	KBAB	CA	Beale AFB	KBTT	AK	Bettles/Field	KCMX	MI	Hancock/Memorial
KAlT	MN	Aitkin/NDB	KBAD	LA	Shreveport/Barksdale AFB	KBTU	VT	Burlington/Intl/NWSFO/ %0326	KCMY	WI	McCoy/US-AF
KAlZ	MO	Kaiser/Memorial	KBAF	MA	Westfield	KBTV	NE	Burwell/Cram Field	KCNC	IA	Chariton
KAlB	AK	Biorika Island/SAWRS	KBAF	MA	Westfield/Barnes	KBUF	NY	Buffalo/Cheektowaga/Intl/ %0325	KCNK	KS	Concordia
KAlK	AK	Juneau/WFO	KBAK	IN	Columbus/Balkalar	KBUO	CA	Beaumont	KCNM	NM	Carlsbad/Cavern City
KAlC	AK	King Salmon/NEXRAD	KBAM	NV	Battle Mountain/FD Point	KBUR	CA	Burbank/Glendale	KCNO	CA	Chino/Airport
KAlH	NC	Gastonia	KBAZ	TX	New Braunfels	KBUY	NC	Burlington	KCNU	KS	Chanute/Martin John
KAlN	AK	King Salmon	KBBB	MN	Benson/Municipal	KBVE	LA	Boothville	KCNY	UT	Moab/Canyonlands
KAlO	CO	Akron/Washington County	KBBW	NE	Broken Bow/Municipal	KBVI	PA	Beaver Falls/Airport	KCOD	WY	Cody/Municipal
KAlP	AK	Anaktuvuk Pass	KBBX	CA	Beale AFB/Oro Dam Blvd West	KBVK	AK	Buckland	KCOE	ID	Coeur D'Alene
KAlQ	VA	Norfolk/Wakefield/%0516	KBCB	VA	Blacksburg/Virginia Tech/ Airport	KBVO	OK	Bartlesville	KCOF	FL	Cocoa Beach/Patrick AFB
KAlR	OH	Akron	KBCE	UT	Bryce Canyon	KBVX	AR	Batesville	KCON	NH	Concord/Municipal
KAlW	AK	Klawock	KBCG	LA	Butte La Rose	KBVY	MA	Beverly/Municipal	KCOQ	MN	Cloquet
KAlB	NY	Albany County/Airport	KBDE	MN	Baudette/Intl	KBWD	TX	Brownwood/Municipal	KCOS	CO	Colorado Springs
KAlI	TX	Alice/Intl	KBDF	IL	Bradford/Rinkenber	KBWG	KY	Bowling Green	KCOT	TX	Cotulla/Municipal
KAlJ	AK	Port Alsworth	KBDL	CT	Hartford/Windsor Locks/ Bradley	KBWI	MD	Baltimore/Intl	KCOU	MO	Columbia/Regional
KAlM	NM	Alamogordo/White	KBDR	CT	Bridgeport/Sikorski	KBYG	WY	Buffalo/Johnson	KCPJ	AK	Cape Saint Elias
KAlN	IL	Alton/St Louis Regional	KBED	MA	Bedford/Hanscom Field	KBYH	AR	Blytheville/Eaker AFB	KCPR	WY	Casper/Natrona Intl
KAlO	IA	Waterloo/Municipal	KBEH	MI	Benton Harbor/Ross	KBVI	ID	Burley/Municipal	KCPJ	IL	Cahokia/St. Louis
KAlR	GA	Atlanta/Southeast RFC	KBEI	AK	Bethel/Airport	KBYS	CA	Bicycle Lake/AAF	KCQC	NM	Clines Corner
KAlS	CO	Alamosa/Municipal	KBET	AK	Bethel/Airport	KBYS	FL	Key West/Boca Chica/ NEXRAD/%0386	KCQM	MN	Cook
KAlW	WA	Walla Walla/Regional	KBFD	PA	Bradford/Regional	KBZ	MT	Billings/WFO	KCQN	TN	Chattanooga/Daisy
KAlY	NY	Albany/NWSFO	KBFF	NE	Scottsbluff/Hellig	KBZ	MT	Bozeman/Gallatin	KCQV	WA	Colville/Municipal
KAMA	TX	Amarillo/Intl/%0313	KBFI	WA	Seattle/Boeing Field	KCBN	MI	Coopersville/Airport	KCQX	MA	Gay Head/CGS
KAMG	GA	Alma/Bacon County	KBFL	CA	Bakersfield/Meadows	KCBW	ME	Houlton/NEXRAD/%0329	KCQX	MA	Chatham
KAMN	MI	Alma	KBFM	AL	Mobile/Downtown	KCBW	ME	Houlton/NEXRAD/%0329	KCRC	AK	Circle City/Airport
KAMW	IA	Ames	KBFV	MN	Silver Bay	KCBX	ID	Boise/Ada County/%0322	KCRE	SC	North Myrtle Beach
KAMX	FL	Miami/NEXRAD/%0728	KBGD	TX	Borger/Hutchinson	KCCO	GA	Newnan	KCRG	FL	Jacksonville/Craig
KANB	AL	Anniston/Calhoun County	KBGF	TN	Winchester/Municipal	KCCR	CA	Concord/Buchanan	KCRP	TX	Corpus Christi/Intl/%0343
KANC	AK	Anchorage/Intl	KBGM	NY	Binghamton/WFO/%0319	KCCX	PA	State College/Rush/ NEXRAD/%0374	KCRQ	CA	Carlsbad/Palomar
KAND	SC	Anchorage/County Airport	KBGR	ME	Bangor/Intl	KCCY	IA	Charles City	KCRS	TX	Corsicana/Campbell
KANI	AK	Aniak	KBGS	TX	Big Spring	KCD	UT	Cedar City/Municipal	KCRV	WV	Charleston/Kanawha
KANN	AK	Annette Island	KBHB	ME	Bar Harbor	KCD	UT	Cedar City/Municipal	KCSG	GA	Columbus/Metro
KANW	NE	Ainsworth/Municipal	KBHK	MT	Baker/Municipal	KCD	MN	Crane Lake	KCSH	AK	Cape Sarichef/Airport
KAOH	OH	Lima	KBHM	AL	Birmingham/Municipal	KCD	ME	Caribou/Municipal	KCSL	CA	Camp San Luis/Airport
KAOO	PA	Altoona/Blair County	KBHX	CA	Eureka/Humboldt County	KCAV	IA	Clarion	KCSM	OK	Clinton-Sherman
KAPA	CO	Denver/Centennial	KBID	RI	Block Island	KCBF	IA	Council Bluffs	KCSP	AK	Cape Spencer
KAPC	CA	Napa/County Airport	KBIE	NE	Beatrice/Municipal	KCBG	MN	Cambridge/Municipal	KCSQ	IA	Creston
KAPD	AK	Fairbanks/Pedro Dome/ NEXRAD	KBIF	TX	Biggs AAF/Ft Bliss	KCBM	MS	Columbus/AFB	KCSV	TN	Crossville Memorial
KAPF	FL	Naples/Municipal	KBIG	AK	Delta Junction/Fort Greely	KCBW	ME	Houlton/NEXRAD/%0329	KCTB	MT	Cut Bank
KAPG	MD	Aberdeen/Phillips AAF	KBIH	CA	Bishop/Airport	KCBW	ME	Houlton/NEXRAD/%0329	KCTO	NY	Calverton/Grumman
KAPN	MI	Alpena/County Regional	KBIL	MT	Billings/Logan Intl	KCCO	GA	Newnan	KCTP	PA	State College/NWSFO
KAPV	CA	Apple Valley	KBIS	ND	Bismarck/Municipal/%0321	KCCR	CA	Concord/Buchanan	KCTY	FL	Cross City
KAPX	MI	Gaylord/WFO/%0312	KBIV	MI	Holland/Tulip City	KCCX	PA	State College/Rush/ NEXRAD/%0374	KCUB	SC	Columbia
KAPX	MI	Gaylord/WFO/%0312	KBIX	MS	Biloxi/Keesler AFB	KCCY	IA	Charles City	KCUA	SD	Custer
KAQC	AK	Klawock/Seaplane	KBJC	CO	Broomfield/Jeffco	KCCY	IA	Charles City	KCVG	KY	Covington/Cincinnati
KAQQ	FL	Apalachicola/Municipal	KBJI	MN	Bemidji	KCD	AK	Cold Bay/Airport	KCVN	OR	Clovis/Municipal
KAQW	MA	North Adams	KBJJ	OH	Wooster/Wayne County	KCD	UT	Cedar City/Municipal	KCVO	NM	Corvallis/Municipal
KARA	LA	New Iberia/Acadiana	KBKE	OR	Baker Municipal	KCD	MN	Crane Lake	KCVS	WI	Clovis/Cannon AFB
KARB	MI	Ann Arbor/Municipal	KBKF	CO	Denver/Buckley ANGB	KCD	AK	Cape Decision	KCWA	NM	Mosinee/Central Wisconsin
KARC	AK	Arctic Village	KBKH	HI	Barking Sands/Kauai	KCDH	AR	Camden/Harrell Field	KCWF	LA	Chenault Airpark
KARG	AR	Walnut Ridge	KBKL	OH	Cleveland/Burke Lakefront	KCDJ	MO	Chillicothe/Litton Sci Ctr	KCWI	IA	Clinton/Municipal
KARR	IL	Aurora/Municipal	KBKT	VA	Ft Pickett/Blackstone	KCDR	NE	Chadron/Municipal	KCXF	AK	Coldfoot/SAWRS
KARR	IL	Chicago/Aurora	KBKV	FL	Brooksville/Hernando	KCD	TX	Childress/Municipal	KCXO	TX	Conroe/Montgomery
KART	NY	Watertown/Intl	KBKW	WV	Beckley/Memorial	KCDV	AK	Cordova/Mile 13	KCXX	VT	Burlington/Cochester
KARV	WI	Minocqua/Woodruff	KBKX	SD	Brookings	KCDW	NJ	Caldwell/Essex County	KCXY	PA	Harrisburg/Capital
KARX	WI	La Crosse/WFO/%0389	KBLF	WV	Bluefield/Mercer County	KCEC	CA	Crescent City	KCYS	WY	Cheyenne/Warren AFB/ NWSFO/%0335
KASE	CO	Aspen/Sardy Field	KBLG	AK	Beluga/Private	KCEF	MA	Chicopee/Westover	KCYT	AK	Yakataga/Cape
KASG	AR	Springdale/Municipal	KBLH	CA	Blythe/Airport	KCEU	SC	Clemson	KCZD	NE	Cozad Municipal
KASH	NH	Nashua/Boire Field	KBLI	WA	Bellingham/Intl	KCEW	FL	Crestview/Bob Sikes	KCZI	WY	Crazy Woman/FD Point
KASJ	NC	Ahoscie	KBLM	NJ	Belmar-Farmdale	KCEZ	CO	Cortez/Montezuma County	KCZK	OR	Cascade Locks/State
KAST	OR	Astoria/Clatsop	KBLU	CA	Blue Canyon/Emigrant Gap	KCFV	KS	Coffeyville			

KCZZ	CA	Campo/AWRS	KDYS	TX	Abilene/Dyess AFB	KEYE	IN	Indianapolis/Eagle Creek	KFWN	NJ	Sussex
KD07	SD	Faith	KDYT	MN	Duluth/Sky Harbor	KEYW	FL	Key West/Intl	KFWR	TX	West Gulf/RFC
KD33	MN	Longville	KDYX	TX	Abilene/Dyess AFB/Moran	KEYX	CA	Edwards AFB/NEXRAD	KFWS	TX	Fort Worth/NEXRAD/ %0345
KD36	MN	Duluth/Sky Harbor	KE02	TX	Odessa	KEZF	VA	Shannon/Airport	KFXE	FL	Fort Lauderdale
KD40	MN	St. James	KE23	NM	Taos/AWRS	KF10	OK	Henryetta/Municipal	KFYU	AK	Fort Yukon
KD45	MN	Warroad	KE28	NM	White Sands/Northrup Landing Strip	KF30	OK	Sulphur/Municipal	KFYV	AR	Fayetteville/Drake Field
KD97	MN	Saint Paul/South				KF39	TX	Sherman-Denison/Grayson County	KFZY	NY	Fulton/Oswego County
KDAA	VA	Fort Belvoir/Davison	KE33	NM	Chama				KG08	PA	Monongah/Rostraver
KDAB	FL	Daytona Beach/Regional	KE38	TX	Alpine/Municipal	KF54	TX	Arlington	KGAD	AL	Gadsden/Municipal
KDAG	CA	Daggett/Barstow	KE63	AZ	Gila Bend/Municipal	KF60	TX	McGregor	KGAG	OK	Gage/Shattuck
KDAL	TX	Dallas/Love Field	KE74	AZ	Safford/Municipal	KF90	AR	De Queen/Helms	KGAL	AK	Galena
KDAN	VA	Danville/Regional	KEAA	AK	Eagle Airport	KFAF	VA	Fort Eustis/Felker	KGAM	AK	Gambell
KDAW	NH	Rochester/Skyhaven	KEAR	NE	Kearney/Municipal	KFAI	AK	Fairbanks/Intl	KGBD	KS	Great Bend
KDAX	CA	Sacramento/NEXRAD/ %0536	KEAT	WA	Wenatchee/Pangborn	KFAM	MO	Farmington/Airport	KGBG	IL	Galesburg/Municipal
			KEAU	WI	Eau Claire County/Airport	KFAR	ND	Fargo/Hector Field	KGHB	AK	Galbraith Lake
KDAY	OH	Dayton/James M Cox Municipal	KEAX	MO	Kansas City/Pleasant Hill/ %0385	KFAT	CA	Fresno/Air Terminal	KGBN	AZ	Gila Bend/AAF
						KFAY	NC	Fayetteville/Regional	KGCC	WY	Gillette
KDBQ	IA	Dubuque/Municipal	KEBS	IA	Webster City	KFBG	NC	Fort Bragg/Simmons	KGCK	KS	Garden City/Municipal
KDCA	VA	Washington/National	KECG	NC	Elizabeth City/CGS	KFBL	MN	Faribault/Municipal	KGCN	AZ	Grand Canyon/Park
KDCU	AL	Decatur/Pryor Field	KECK	MI	Peck/FD Point	KFCA	MT	Kalispell/Glacier	KGDP	TX	Guadalupe Pass
KDDC	KS	Dodge City/NWSFO/%0350	KEDE	NC	Edenton	KFCH	CA	Fresno/Chandler Dntown	KGDV	MT	Glendive
KDDH	VT	Bennington/State	KEDW	CA	Edwards AFB	KFCL	CO	Fort Collins/SAWR	KGED	DE	Georgetown/Sussex
KDDT	AK	Slana/Airport	KEED	CA	Needles/Airport	KFCM	MN	Minneapolis/Flying Cloud	KGEV	WA	Spokane/Intl
KDEC	IL	Decatur/Airport	KEEN	NH	Keene/Dillant	KFCS	CO	Fort Carson/Butts	KGEU	AZ	Glendale
KDEE	AK	Deering	KEEO	CO	Meeker	KFCX	VA	Roanoke/Floyd County/ %0534	KGEV	NC	Jefferson
KDEH	IA	Decorah	KEET	AL	Alabaster/Shelby County				KGEY	WY	Greybull/South Big Horn County
KDEN	CO	Denver/Intl/(1996 onward)	KEEW	WI	Neehan	KFDR	OK	Frederick			
KDEQ	AR	De Queen/Helms	KEFC	SD	Belle Fourche	KFDX	NM	Clovis/NM Hwy 89/%0328	KGEZ	IN	Shelbyville
KDET	MI	Detroit/City Airport	KEFD	TX	Houston/Ellington	KFDY	OH	Findlay	KGFA	MT	Great Falls/Malmstrom AFB
KDEW	WA	Deer Park/Airport	KEFT	WI	Monroe	KFET	NE	Fremont			
KDFI	OH	Defiance	KEGE	CO	Eagle County/Regional	KFFC	GA	Atlanta/Peachtree/%0316	KGFK	ND	Grand Forks/Intl
KDFW	TX	Dallas-Fort Worth/Intl	KEGI	FL	Duke Fld/Eglin Auxiliary	KFFL	IA	Fairfield	KGFL	NY	Glens Falls/Warren
KDFX	TX	Del Rio/Laughlin AFB/US Hwy 90	KEGV	WI	Eagle River	KFFM	MN	Fergus Falls	KGGB	CA	Golden Gate Bridge
KDGW	WY	Douglas/Converse	KEHA	KS	Elkhart	KFFO	OH	Dayton/Wright-Patterson AFB	KGGG	TX	Longview/Gregg County
KDHN	AL	Dothan/Municipal	KEHR	KY	Henderson City	KFFT	KY	Frankfort/Capital City	KGGW	MT	Glasgow/Intl/NWSFO/ %0365
KDHT	TX	Dalhart/Municipal	KEIL	AK	Fairbanks/Eielson/ETA	KFFZ	AZ	Mesa/Falcon Field			
KDIA	CO	Denver/Intl	KEKA	CA	Eureka/Airport	KFGF	ND	Fargo/WFO	KGHW	MN	Glenwood
KDIK	ND	Dickinson/Municipal	KEKM	IN	Elkhart/Municipal	KFGN	MN	Flag Island	KGID	NE	Grand Island/Hastings/ NWSFO
KDIX	PA	Philadelphia/Manchester/ %0523	KEKN	WV	Elkins/Randolph Field	KFGZ	AZ	Flagstaff/WFO	KGIF	FL	Winter Haven
			KEKO	NV	Elko	KFHR	WA	Friday Harbor	KGJK	PA	Meadville/Port Mead
KDKK	NY	Dunkirk/Chautauqu	KEKO	NV	Elko	KFHU	AZ	Fort Huachuca/Libby	KGJT	CO	Grand Junction/Walker Field/ASO
KDKX	TN	Knoxville/Downtown	KELD	AR	El Dorado/Goodwin	KFIG	PA	Clearfield			
KDLF	TX	Del Rio/Laughlin AFB	KELM	NY	Elmira/Corning Regional	KFIT	MA	Fitchburg	KGJX	CO	Grand Junction/Mesa/ %0368
KDLG	AK	Dillingham	KELN	WA	Ellensburg/Bowers	KFIV	AK	Five Finger/Lighthouse			
KDLH	MN	Duluth/Intl/NWSFO/%0352	KELO	MN	Ely/Municipal	KKFK	AK	Franklin Bluffs	KGKN	AK	Gulkana/Airport
KDLL	WI	Baraboo/Wisconsin Dells	KELP	TX	El Paso/Intl	KFKL	PA	Franklin	KGKY	TX	Arlington
KDLN	MT	Dillon/Airport	KELV	AK	Elfin Cove/Seaplane	KFKN	VA	Franklin/J B Rose	KGLD	KS	Goodland/Renner/%0366
KDLS	OR	The Dalles/Municipal	KELY	NV	Ely/Yelland Fld	KFLD	WI	Fond Du Lac	KGLH	MS	Greenville/Municipal
KDLS	WA	The Dalles	KELZ	NY	Wellsville	KFLG	AZ	Flagstaff	KGLR	MI	Gaylord
KDMA	AZ	Tucson/Davis-Monthan AFB	KEMI	MD	Westminster/FD Point	KFLG	AZ	Flagstaff	KGLS	TX	Galveston/Scholes
			KEMP	KS	Emporia/Municipal	KFLI	FL	Fort Lauderdale/Holly	KGMU	SC	Greenville
KDMH	MD	Baltimore/Science Center	KEMT	CA	El Monte	KFLO	SC	Florence/Regional	KGMU	SC	Greenville/Downtown
KDMN	NM	Deming/Municipal	KEMX	AZ	Tucson/NEXRAD	KFLP	AR	Flippin	KGNV	ID	Gooding/Municipal
KDMO	MO	Sedalia	KENA	AK	Kenai/Municipal	KFLV	KS	Fort Leavenworth	KGNR	ME	Greenville
KDMX	IA	Des Moines/Johnston/ %0348	KEND	OK	Enid/Vance AFB	KFME	MD	Ford Meade/Tipton	KGNT	NM	Grants-Milan/Municipal
			KENM	AK	Emmonak	KFMH	MA	Otis/ANGB	KGNV	FL	Gainesville/Regional
KDNL	GA	Augusta/Daniel Field	KENN	AK	Nenana/Municipal	KFMN	NM	Farmington/Regional	KGOK	OK	Guthrie
KDNN	GA	Dalton	KENV	UT	Wendover	KFMY	FL	Fort Myers/Page Field	KGON	CT	Groton/New London
KDNR	CO	Denver/Stapleton/(Was DEN before 1996)	KENW	WI	Kenosha	KFNB	NE	Falls City/Brenner	KGPT	MS	Gulfport-Biloxi
			KENX	NY	Albany/East Berne/%0310	KFNL	CO	Fort Collins	KGPR	MN	Grand Rapids
KDNS	IA	Denison	KEOK	IA	Keokuk/Municipal	KFNR	AK	Funter Bay/Seaplane	KGRB	WI	Green Bay/Straubel/ NWSFO/%0371
KDNV	IL	Danville/Vermilion	KEOX	AL	Fort Rucker/NEXRAD	KFNT	MI	Flint/Bishop Intl			
KDOV	DE	Dover/AFB	KEPH	WA	Ephrata/Municipal	KFOD	IA	Fort Dodge	KGRD	SC	Greenwood
KDOX	DE	Dover/AFB/Ellendale Forest	KEPM	ME	Eastport	KFOE	KY	Topeka/Forbes Field	KGRF	WA	Fort Lewis/Gray AAF
KDPA	IL	Chicago/Du Page	KEPO	ME	Eastport	KFOK	NY	Westhampton Beach	KGRI	NE	Grand Island
KDPA	IL	Chicago/Dupage	KEPZ	TX	El Paso/Santa Teresa/WFO/ %0357	KFOQ	TX	Freepport/SAWR	KGRK	TX	Fort Hood/Gray AAF
KDPG	UT	Dugway/Proving Ground				KFOT	CA	Fortuna/FD Point	KGRM	MN	Grand Marais/Municipal
KDPL	NC	Kenansville	KEPZ	TX	El Paso/Santa Teresa/WFO/ %0357	KFOZ	MN	Bigfork	KGRN	NE	Gordon/Municipal
KDRA	NV	Mercury/Desert Rock				KFPN	AK	Fredericks Point	KGRR	MI	Grand Rapids/Intl/NWSFO/ %0369
KDRG	AK	Deering	KEQY	NC	Monroe	KFPR	FL	Fort Pierce/St Lucie			
KDRO	CO	Durango/La Plata County	KERI	PA	Erie/Intl	KFQD	NC	Rutherfordton	KGSB	NC	Goldsboro/Seymour- Johnson AFB
KDRT	TX	Del Rio/Intl	KERO	AK	Eldred Rock	KFRG	NY	Farmingdale/Republic	KGSH	IN	Goshen/Municipal
KDSM	IA	Des Moines/Intl	KERV	TX	Kerrville/Municipal	KFRI	KS	Fort Riley/Marshall AAF	KGSM	LA	Ship Shoal/207
KDSV	NY	Dansville/Municipal	KERY	MI	Newberry	KFRM	MN	Fairmont/Municipal	KGSO	NC	Greensboro/Piedmont
KDTA	UT	Delta/Municipal	KESC	MI	Escanaba	KFSD	SD	Sioux Falls/Foss/%0544	KGSP	SC	Greenville-Spartanburg/ %0555
KDTK	AK	Dietrick/Private	KESF	LA	Alexandria/Esler	KFSE	MN	Fosston			
KDTL	MN	Detroit Lakes/AWOS	KESN	MD	Easton/Newman	KFSI	OK	Fort Sill	KGST	AK	Gustavus
KDTN	LA	Shreveport/Downtown	KEST	IA	Estherville/Municipal	KFSM	AR	Fort Smith/Municipal	KGTB	NY	Fort Drum/Wheeler
KDTO	TX	Denton/Municipal	KESX	NV	Las Vegas/Nelson/ NEXRAD/%0566	KFST	TX	Fort Stockton	KGTF	MT	Great Falls/Intl/NWSFO
KDTS	FL	Destin/Ft Walton Beach				KFSW	TX	Fort Madison	KGTR	MS	Golden Triangle
KDTW	MI	Detroit/Metropolitan	KETB	WI	West Bend	KFSX	AZ	Flagstaff/Coconino	KGTV	TX	Georgetown
KDTX	MI	Detroit/White Lake/%0349	KETH	MN	Wheaton/NDB	KFTG	CO	Denver/Boulder/NEXRAD/ %0347	KGUC	CO	Gunnison County
KDUG	AZ	Douglas-Bisbee/Intl	KEUG	OR	Eugene/Mahlon Sweet				KGUP	NM	Gallup/Clarke
KDUJ	PA	Du Bois	KEUL	ID	Caldwell				KGUS	IN	Peru/Grissom AFB
KDUK	IL	Chicago/Dunne Crib	KEVN	MN	Eveleth/Municipal	KFTK	KY	Fort Knox/Godman	KGUY	OK	Guymon
KDUT	AK	Dutch Harbor	KEVV	IN	Evansville/Regional	KFTW	TX	Fort Worth/Meacham	KGVL	GA	Gainesville/Gilmer
KDVL	ND	Devils Lake	KEVW	WY	Evanson/Burns Field	KFTY	GA	Atlanta/Fulton County	KGVO	NY	Buffalo/Batavia/NWSFO
KDVN	IA	Quad Cities/Davenport/ %0530	KEVX	FL	Eglin AFB/NEXRAD	KFUL	CA	Fullerton/Municipal	KGVT	TX	Greenville/Majors
			KEWB	MA	New Bedford	KFVE	ME	Frenchville	KGWW	MO	Grandview/Richards- Gebaur
KDVT	AZ	Phoenix/Deer Valley	KEWK	KS	Newton	KFVM	AK	Five Mile Camp			
KDWH	TX	Houston/David W. Hooks	KEWN	NC	New Bern/Craven County	KFVX	VA	Farmville			
KDXR	CT	Danbury/Municipal	KEWR	NJ	Newark/Intl	KFWA	IN	Fort Wayne/Baer Field			
KDYL	PA	Doylestown	KEWX	TX	New Braunfels/WFO/ %0539	KFWD	TX	Fort Worth/North/WFO			
KDYR	TN	Dyersburg				KFWH	TX	Fort Worth/Carswell AFB	KGWO	MS	Greenwood/Leflore
						KFWL	AK	Farewell/Inter Field	KGWX	TN	Memphis/Hwy 8 & USA

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KMBW	WY	Medicine Bow/FD Point	KMOU	AK	Mountain Village	KNBQ	GA	Kings Bay	KOGG	HI	Kahului/Maui
KMBX	ND	Minot/AFB/McHenry County	KMOX	MN	Morris/Municipal	KNBT	NC	Piney Island	KOGS	NY	Ogdensburg/Intl
KMCB	MS	McComb/Lewis Field	KMPV	VT	Barre-Montpelier	KNBU	IL	Chicago/Glenview NAS	KOHX	TN	Nashville/Old Hickory/ %0512
KMCC	CA	Sacramento/McClellan AFB	KMPX	MN	Minneapolis/Chanhausen/ %0506	KNCA	NC	Jacksonville/New River	KOJC	KS	Olathe/Johnson County
KMCD	MI	Mackinac Island	KMQE	MA	Milton/Blue Hill Observatory	KNCA	NC	New River/MCAS	KOKB	CA	Oceanside/Municipal
KMCE	CA	Merced/Macready Field	KMQI	NC	Manteo/Dare Co Regional	KNED	SD	Winner/Bob Wiley	KOKC	OK	Oklahoma City
KMCF	FL	Tampa/MacDill AFB	KMQM	MT	Monida	KNEL	NJ	Lakehurst/NAS	KOKK	IN	Kokomo
KMCG	AK	McGrath	KMQT	MI	Marquette/Airport/%0399	KNEW	LA	New Orleans/Lakefront	KOKV	VA	Winchester/Regional
KMCI	MO	Kansas City/Intl	KMRB	WV	Martinsburg/Regional	KNEX	SC	Charleston/Nise	KOKX	NY	New York/Upton/ Brookhaven
KMCK	NE	McCook/Municipal	KMRH	NC	Beaufort/Smith Field	KNFE	VA	Fentress	KOLD	ME	Old Town/Dewitt Field
KMCN	GA	Macon/Lewis Wilson	KMRJ	WI	Mineral Point	KNFG	CA	Camp Pendleton/MCAS	KOLE	NY	Olean/Municipal
KMCO	FL	Orlando/Jetport	KMRK	TN	Columbia/Maury County	KNFG	CA	Oceanside/Camp Pendleton	KOLF	MT	Wolf Point/Intl
KMCW	IA	Mason City/Municipal	KMRX	TN	Knoxville/Morristown/ %0387	KNFJ	FL	Milton/Choctaw	KOLI	AK	Oliktok/DEW
KMDH	IL	Carbondale/Murphysboro	KMSL	AL	Muscle Shoals/Regional	KNFL	NV	Fallon/NAS	KOLM	WA	Olympia
KMDN	IN	Jefferson/Proving Ground	KMSN	WI	Madison	KNFW	TX	Fort Worth/NAS	KOLS	AZ	Nogales
KMDO	AK	Middleton Island	KMSO	MT	Missoula/Bell Field	KNGP	TX	Corpus Christi/NAS	KOLU	NE	Columbus/Municipal
KMDT	PA	Harrisburg	KMSP	MN	Minneapolis/Intl	KNGW	TX	Corpus Christi/Cabiness	KOLZ	IA	Oelwein
KMDT	PA	Middletown/Olmsted	KMSV	NY	Monticello	KNGZ	CA	Alameda NAS/Nimitz	KOMA	NE	Omaha/Eppley Field
KMDW	IL	Chicago/Midway	KMSX	MT	Missoula/Missoula County/ %0508	KNHK	MD	Patuxent River/NAS	KOME	AK	Nome
KMDX	NE	Omaha/Valley/NWSFO	KMTC	MI	Selfridge/ANGB	KNHZ	ME	Brunswick/NAS	KOMK	WA	Omak
KMDZ	WI	Medford	KMTD	FL	Marathon/Airport	KNID	CA	China Lake/NAF	KOMN	MN	Winona/Municipal
KMEB	NE	Maxton/Laurinbur	KMTJ	CO	Montrose County/Airport	KNIP	FL	Jacksonville/NAS	KONL	NE	O'Neill/Baker Field
KMEG	TN	Memphis/WFO	KMTN	MD	Baltimore/Martin	KNIR	TX	Beeville/Chase NAS	KONM	NM	Socorro/Municipal
KMEH	OR	Meacham	KMTO	IL	Mattoon/Coles County	KNIS	NC	Cherry Point	KONO	OR	Ontario/Municipal
KMEI	MS	Meridian/Key Field	KMTP	NY	Montauk Point/CGLS	KNIX	WA	Pacific Beach	KONP	OR	Newport/Municipal
KMEM	TN	Memphis/Intl	KMTR	CA	San Francisco/Monterey/ NWSFO	KNJC	OR	Boardman	KONT	CA	Ontario/Intl
KMER	CA	Merced/Castle AFB	KMTV	VA	Martinsville	KNJK	CA	El Centro/NAF	KONZ	MI	Grosse Ile
KMFD	OH	Mansfield/Lahm Municipal	KMTW	WI	Manitowac/Municipal	KNJM	NC	Swansboro/Bogue Field/ MCALF	KOOG	OH	Lorain/Elyria/Regional
KMFE	TX	McAllen/Miller Intl	KMTX	UT	Salt Lake City/Elder/%0537	KNJW	MS	Meridian	KOOH	AK	Hoonah/Seaplane
KMFI	WI	Marshfield	KMUE	HI	Kamuela/Waimea-Kohala Arpt	KNKT	NC	Cherry Point/MCAS	KOPF	FL	Miami/Opa Locka
KMFL	FL	Miami/WFO	KMUI	PA	Indiantown/Muir AAF	KNKX	CA	San Diego/Miramar/%0540	KOQU	RI	North Kingston/Quonset
KMFR	OR	Medford/Jackson County	KMUO	ID	Mountain Home/AFB	KNLC	CA	LeMoore NAS/Reeves	KORB	MN	Orr
KMFV	VA	Melfa/Accomack	KMUT	IA	Muscatine	KNLT	NC	Atlantic	KORC	IA	Orange City
KMGE	GA	Marietta/Dobbins AFB	KMUX	CA	San Francisco/Santa Clara/ %0541	KNMM	MS	Meridian/NAS McCain	KORD	IL	Chicago/O'Hare Intl
KMGG	MN	Maple Lake	KMUY	AK	Toolik	KNNP	FL	Pensacola/NAS	KORE	MA	Orange
KMGJ	NY	Montgomery/Orange County	KMVE	MN	Montevideo	KNNZ	CA	Point Sur	KORF	VA	Norfolk/Intl Arpt
KMGM	AL	Montgomery/Dannelly	KMVL	VT	Morrisville	KNOG	TX	Orange Grove/NALF	KORH	MA	Worcester
KMGR	GA	Moultrie/Thomasville	KMVN	IL	Mount Vernon	KNOW	WA	Port Angeles/CGAS	KORL	FL	Orlando/Hemdon
KMGW	WV	Morgantown/Hart Field	KMVX	ND	Fargo/Mayville	KNPA	FL	Pensacola/NAS	KORN	LA	Lower Mississippi/RFC
KMGY	OH	Dayton	KMVA	MA	Martha Vineyard	KNQA	TN	Memphis/Millington/NAS/ %0501	KORN	LA	New Orleans/Lower Mississippi
KMHC	FL	Miami/NHC	KMWA	IL	Marion/Regional	KNQI	TX	Kingsville/NAS	KORS	WA	Eastsound
KMHE	SD	Mitchell	KMWC	WI	Milwaukee/Timmerman	KNQX	FL	Key West/NAS	KORT	AK	Northway
KMHK	KS	Manhattan/Municipal	KMWW	WA	Moses Lake/Grant County	KNRA	WA	Coupeville	KOSC	MI	Wurtsmith AFB
KMHM	AK	Minchumina	KMWL	TX	Mineral Wells/Municipal	KNRB	FL	Mayport/NS	KOSH	WI	Oshkosh/Wittman Field
KMHN	NE	Mullen/Hooker County	KMWM	MN	Windom	KNRC	CA	Crows Landing/NALF	KOSU	OH	Columbus/Ohio State
KMHR	CA	Sacramento/Mather Field	KMWN	NH	Mount Washington	KNRS	CA	Imperial Beach/Ream	KOSU	OH	Ohio State University/ Columbus
KMHS	CA	Mount Shasta	KMWS	CA	Mount Wilson	KNSE	FL	Milton/Whiting	KOTG	MN	Worthington
KMHS	CA	Mt Shasta	KMXF	AL	Montgomery/Maxwell AFB	KNSE	FL	Whiting Field/NAS	KOTH	OR	North Bend
KMHT	NH	Manchester/Airpark	KMXG	IA	Monticello/Municipal	KNSI	CA	San Nicolas Island	KOTM	IA	Ottumwa/Industrial
KMHV	CA	Mojave	KMXX	AL	Montgomery/Maxwell AFB/ NEXRAD	KNTD	CA	Point Mugu/NAWS	KOTX	WA	Spokane/WFO/%0547
KMHX	NC	Morehead City/Newport/ %0375	KMXY	AK	McCarthy	KNTK	CA	Tustin/MCAS	KOTZ	AK	Kotzebue/Ralph Wien
KMIA	FL	Miami/Intl	KMYG	ND	Fargo/Mayville/NWSFO	KNTU	VA	Virginia Beach/Oceana NAS	KOUN	OK	Norman/Westheimer
KMIB	ND	Minot/AFB	KMYL	ID	Mc Call	KNUC	CA	San Clemente	KOVE	CA	Oroville
KMIC	MN	Minneapolis/Crystal	KMYR	SC	Myrtle Beach/Civilian	KNUI	MD	St Inigoes/Webster F	KOVN	NE	North Omaha
KMIE	IN	Muncie/Johnson Field	KMYU	AK	Mekoryuk	KNUQ	CA	Mountain View/Moffett NAS	KOVS	WI	Boscobel
KMIV	NJ	Millville/Municipal	KMYV	CA	Marysville/Yuba County	KNUW	WA	Whidbey Island	KOWA	MN	Owatonna
KMIV	IA	Marshalltown	KMZZ	IN	Marion/Municipal	KNUW	WA	Whidbey Island/NAS	KOWB	KY	Owensboro/Daviess
KMJQ	MN	Jackson/Municipal	KN00	NY	Fulton/Oswego County	KNVN	TX	Corpus Christi	KOWD	MA	Norwood/Memorial
KMKC	MO	Kansas City/Municipal	KN07	NJ	Lincoln Park	KNWF	CA	Long Beach	KOWX	SD	Buffalo
KMKE	WI	Milwaukee/Mitchell	KN11	CT	New Haven/CGS	KNXP	CA	Twentynine Palms	KOWY	NV	Owyhee
KMKG	MI	Muskegon	KN25	PA	Downington/Shannon	KNXX	PA	Willow Grove/NAS	KOXC	CT	Oxford
KMKJ	VA	Marion/Wytheville	KN28	NY	Ambrose/Ft Tilden	KNYC	NY	New York/WFO	KOXR	CA	Oxnard
KMKK	HI	Molokai	KN52	NJ	Somerville/Somerset	KNYG	VA	Quantico/MCAF	KOXY	IA	Knoxville
KMKL	TN	Jackson/McKellar	KN60	ND	Garrison	KNYL	AZ	Yuma/MCAS	KOZR	AL	Ozark/Cairns AAF
KMKO	OK	Muskogee/Davis Field	KN63	NJ	Sussex	KNZC	FL	Cecil Field/NAS	KOZW	MI	Howell
KMKT	MN	Mankato	KN66	NY	Oneonta/Municipal	KNZJ	CA	El Toro/MCAS	KP00	LA	Tenneco Platform
KMKX	WI	Milwaukee/Dousman	KN78	NJ	Barnegat/CGS	KNZW	MA	South Weymouth/NAS	KP01	AZ	Ajo/Municipal
KMKY	FL	Melbourne/Regional/%0302	KN80	MD	Ocean City/Municipal	KNZY	CA	San Diego/North Island/ NAS	KP02	MO	Poplar Bluff/AMOS
KMLC	OK	McAlester/Regional	KN84	NY	Bronx/Execution/CGS	KO00	CA	Alturas	KP05	SD	Philp
KMLD	ID	Malad City	KN87	NJ	Robbinsville/Trenton	KO18	CA	Hanford	KP06	AZ	Bullhead City
KMLF	UT	Millford/Municipal	KN97	PA	Cape May/CGS	KO45	CA	Vacaville/Nut Tree	KP07	TX	Sanderson
KMLI	IL	Moline/Quad City	KN98	PA	Doylestown	KO54	CA	Weaverville	KP11	ND	Devils Lake
KMLP	ID	Mullan Pass	KN99	FL	Pinecastle	KO64	CA	Fort Bragg	KP21	LA	Main Pass/B68
KMLS	MT	Miles City	KNAE	MD	Annapolis	KO72	CA	Point Cabrillo	KP22	LS	Vermilion/B131
KMLT	ME	Millinocket/Municipal	KNBC	SC	Beaufort/MCAS	KO87	CA	Shelter Cove	KP24	ND	Roseglen
KMLU	LA	Monroe/Regional	KNBE	TX	Dallas/NAS Hensley	KOAJ	NC	Jacksonville	KP25	LA	Vermilion/B215
KMLY	AK	Manley Hot Springs	KNBG	LA	New Orleans/NAS	KOAK	CA	Oakland/Metropolitan	KP26	LA	Grand Isle/B95
KMMH	CA	Mammoth/June Lakes				KOAR	CA	Fort Ord/Fritzsch	KP28	KS	Medicine Lodge AMOS
KMMK	CT	Meriden				KOAX	NE	Omaha/Valley/%0519	KP30	LA	West Cameron
KMML	MN	Marshall/Ryan				KOCF	FL	Ocala/Municipal	KP34	AZ	Window Rock
KMMO	IL	Marseilles				KOCH	TX	Nacogdoches	KP35	MI	Spickard
KMMT	SC	McEntire/ANG Base				KODO	TX	Odessa	KP38	NV	Caliente
KMMU	NJ	Morristown/Municipal				KODX	NE	Ord/Sharp Field	KP39	MN	Pequot Lake
KMMV	OR	McMinnville				KOEB	MI	Coldwater	KP43	CA	Ventura Harbor
KMNC	BA	Andros Island				KOFF	NE	Bellevue/Offutt AFB	KP44	CA	Santa Barbara/Harbor
KMNI	SC	Manning/Cooper Regional				KOFK	NE	Norfolk/Stefan Field	KP47	OR	Chetco River/CGS
KMNM	MI	Menominee				KOPF	VA	Richmond/Hanover	KP53	PA	Monongahela
KMNN	OH	Marion				KOGA	NE	Ogallala	KP58	MI	Port Hope/Harbor Beach
KMOB	AL	Mobile/Bates Field/%0509				KOGB	SC	Orangeburg	KP59	MI	Copper Harbor
KMOD	CA	Modesto City/Sham				KOGD	UT	Ogden/Hinckley	KP60	WY	Yellowstone
KMOS	AK	Moses Point							KP61	MN	Tofte
KMOT	ND	Minot/Intl									

KP65	AZ	Lukeville	KPSX	TX	Palacios/Municipal	KROG	AR	Rogers	KSHI	OH	Ashtabula
KP67	ND	Lidgerwood	KPTB	VA	Petersburg	KROS	MN	Rush City	KSHL	IA	Sheldon
KP68	NV	Eureka	KPTH	AK	Port Heiden/AMOS	KROW	NM	Roswell/Industrial	KSHN	WA	Shelton/Sanderson
KP69	ID	Elk City/Lowell	KPTI	AK	Puntilla/Lake	KROX	MN	Roseau/Municipal	KSHP	TX	Wichita Falls/Sheppard AFB
KP70	NM	Clines Corner	KPTK	MI	Pontiac/Oakland	KRPE	TX	Sabine Pass			
KP75	MI	Seul Choix Pt	KPTN	LA	Patterson/Memorial	KRQE	AZ	Window Rock	KSHR	WY	Sheridan County/Airport
KP88	OR	Rome	KPTR	OR	Northwest/RFC	KRRF	FL	New Port Richie/Tampa Bay	KSHV	LA	Shreveport/Regional/%0543
KP92	LA	Salt Point	KPTR	OR	Portland/Northwest RFC				KSIL	LA	Sidell
KPAC	HI	Honolulu/RHQ	KPTT	KS	Pratt/Municipal	KRRF	FL	Port Richey	KSIT	AK	Sitka/Japanski Airport
KPAE	WA	Everett/Paine Field	KPTU	AK	Platinum	KRRT	MN	Warroad	KSIV	CA	Montague/Siskiyou
KPAH	KY	Paducah/Barkley/NWSFO/%0521	KPTV	CA	Porterville	KRSA	CA	California/River Center	KSJB	NJ	Somerville/Somerset
			KPTW	PA	Pottstown	KRSL	KS	Russell/Municipal	KSJC	CA	San Jose/Intl
KPAM	FL	Panama City/Tyndall AFB	KPTX	ME	Portland/NWSFO	KRST	MN	Rochester/Municipal	KSJN	AZ	St Johns/Air Park
KPAO	CA	Palo Alto/Airport	KPUB	CO	Pueblo/Memorial/AWRS/NWSFO	KRSW	FL	Fort Myers/SW Florida Regional/	KSJT	TX	San Angelo/Mathis/NWSFO
KPAQ	AK	Palmer/Municipal							KJSU	PR	San Juan/Marin
KPBF	AR	Pine Bluff/Grider	KPUC	UT	Price/Carbon	KRTN	NM	Raton/Crews Field	KSKA	WA	Spokane/Fairchild AFB
KPBG	NY	Plattsburgh/AFB	KPUO	AK	Prudhoe Bay	KRTX	OR	Portland/Scappoose Hill/%0527	KSKC	WI	Waukesha
KPBH	WI	Phillips/Price County	KPUW	WA	Pullman/Moscow Regional				KSKF	TX	San Antonio/Kelly AFB
KPBI	FL	West Palm Beach	KPUX	CO	Pueblo/NEXRAD/%0529	KRUE	AR	Russellville	KSKJ	AK	Sitkinak/CGS
KPBV	AK	St George Island	KPVC	MA	Provincetown	KRUM	ME	Rumford	KSKW	AK	Skwentna
KPBZ	PA	Pittsburgh/Corapolis/%0526	KPVD	RI	Providence/Green	KRUT	VT	Rutland/State	KSKX	NM	Taos/Municipal
			KPVU	UT	Provo/Municipal	KRVL	PA	Reedsville/Mifflin	KSLE	IA	Storm Lake
KPCU	MS	Picayune/Pearl River	KPVV	TX	Plainview/Hale County	KRVS	OK	Tulsa/Lloyd Jones	KSLB	UT	Salt Lake City/Intl
KPDK	GA	Atlanta/De Kalb	KPWA	OK	Oklahoma City/Wiley Post	KRWF	MN	Redwood Falls/Municipal	KSLE	OR	Salem/McNary
KPDT	OR	Pendleton/Municipal/NWSFO/%0522	KPWC	MN	Pine River	KRWI	NC	Rocky Mount/Wilson	KSLE	AR	Siloam Springs
			KPWG	TX	McGregor	KRWL	WY	Rawlins/Municipal	KSLE	CA	Los Alamitos/AAF
KPDX	OR	Portland/Intl	KPWK	IL	Chicago/Pal-Waukegan	KRYV	WI	Watertown	KSLE	NY	Saranac Lake/Adirondack
KPEF	CO	Colorado Springs/Peterson AFB	KPWL	ME	Portland	KRZZ	NC	Roanoke Rapids/Halifax	KSLE	KS	Salina/Municipal
			KPWL	ME	Portland/Intl Jetport	KS02	LA	Ship Shoal/B224A	KSLO	IN	Salem-Leckrone
KPEO	NY	Penn Yan	KPWT	WA	Bremerton/National	KS06	ID	Mullan/AWRS	KSLO	AK	Sleetmute
KPFC	OR	Pacific City State	KPXX	AK	Paxson	KS11	CA	Alturas	KSLO	OH	Smithville/Wooster
KPFN	FL	Panama City/Bay County	KPYM	MA	Plymouth/Municipal	KS14	ID	Spencer	KSMC	KY	Somerset
KPGA	AZ	Page/Municipal	KPZQ	MI	Presque Isle/Rogers	KS21	OR	Sunriver	KSMF	CA	Sacramento
KPGD	FL	Punta Gorda/Charlotte	KQ63	NV	Pyramid Lake	KS22	OR	Hermiston	KSMF	CA	Sacramento/Metropolitan
KPGL	MS	Pascagoula/Jackson	KQ67	CA	Tahoe City/CGS	KS29	CO	Salida	KSMN	ID	Salmon/Lemhi
KPGO	OK	Page Mountain	KQAV	NV	Fallon/NAS	KS38	WA	Burrows Island	KSMO	CA	Santa Monica/Municipal
KPGV	NC	Greenville/Pitt	KQCU	AR	Fort Chaffee	KS47	OR	Tillamook	KSMU	WA	Stampede Pass
KPGV	NC	Pitt-Greenville	KQRC	AK	King Salmon/AFS	KS53	WA	Destruction Island	KSMU	AK	Sheep Mountain
KPHD	OH	New Philadelphia	KQWS	NY	Wheeler-Sack/AAF	KS58	LA	South Timbalier/300	KSMX	CA	Santa Maria/Public
KPHF	VA	Newport News	KRAC	WI	Racine/Batten Field	KS65	LA	Ship Shoal/198G	KSNA	CA	Santa Ana/John Wayne
KPHI	PA	Philadelphia/Mt. Holly/NWSFO	KRAD	MN	Warroad	KS80	ID	Grangeville	KSNA	AK	Saint Paul Island
			KRAH	NC	Raleigh/WFO	KS88	WA	Arlington	KSNS	CA	Salinas/Municipal
KPHL	PA	Philadelphia/Intl	KRAL	CA	Riverside	KSAC	CA	Sacramento/Executive	KSNT	ID	Stanley/Ranger Station
KPHN	MI	St Clair Shores	KRAL	CA	Riverside/Municipal	KSAD	AZ	Safford/Municipal	KSNT	NE	Sidney/Municipal
KPHO	AK	Point Hope	KRAN	IL	Rantoul	KSAD	NM	Safford/Municipal	KSNT	OR	Hermiston
KPHX	AZ	Phoenix/Sky Harbor	KRAP	SD	Rapid City/Regional	KSAN	CA	San Diego/Lindberg	KSNT	NC	Southern Pines
KPIA	IL	Peoria/Regional	KRAX	NC	Raleigh/Clayton/%0531	KSAT	TX	San Antonio/Intl	KSNT	HI	South Kauai/NEXRAD
KPIB	MS	Pine Belt/Regional	KRBD	TX	Dallas/Redbird	KSAY	GA	Savannah/Municipal	KSNT	AK	Seldovia
KPIE	FL	Saint Petersburg	KRBG	OR	Roseburg/Municipal	KSAW	MI	K.I. Sawyer AFB	KSNT	AZ	Show Low/Municipal
KPIF	FL	St Petersburg	KRBL	CA	Red Bluff/Municipal	KSAY	MN	Staples	KSNT	CA	San Diego/%0574
KPIH	ID	Pocatello/Municipal	KRCA	SD	Rapid City/Ellsworth AFB	KSBA	CA	Santa Barbara/Municipal	KSNT	SC	Spartanburg/Memorial
KPIL	TX	Port Isabel	KRDD	CA	Redding/Municipal	KSBD	CA	San Bernardino/Norton AFB	KSNT	OR	Scappoose
KPIR	SD	Pierre/Municipal	KRDG	PA	Reading/Spaatz Field	KSBI	OH	South Bass Island	KSNT	CO	Springfield
KPIZ	PA	Pittsburgh/Intl	KRDK	IA	Red Oak	KSBM	WI	Sheboygan	KSNT	SD	Spearfish/Clyde Ice
KPIZ	AK	Point Lay/DEW	KRDM	OR	Redmond	KSBM	IN	South Bend/St. Joe	KSNT	FL	Saint Petersburg
KPIA	AK	Port Alsworth	KRDR	ND	Grand Forks/AFB	KSBP	CA	San Luis Obispo	KSNT	FL	St Petersburg/Whitted
KPIB	AZ	Payson	KRDU	NC	Raleigh/Durham	KSBS	CO	Steamboat Springs	KSNT	IL	Springfield/Capital
KPIJ	RI	Point Judith/CGS	KRED	MT	Red Lodge	KSBY	MD	Salisbury/Regional	KSNT	TX	Wichita Falls/Municipal
KPKB	WV	Parkersburg/Wilson	KREE	TX	Lubbock/Reese AFB	KSCC	AK	Deadhorse	KSNT	IA	Spencer
KPKD	MN	Park Rapids/Municipal	KREJ	SD	Redig	KSCD	NY	Schenectady Airport	KSNT	IL	Sterling Rockfalls
KPKF	WI	Park Falls/Municipal	KREO	OR	Rome	KSCD	CA	Stockton/Metropolitan	KSNT	CA	San Carlos/Airport
KPLB	NY	Plattsburgh/Clinton	KREV	NV	Reno	KSDA	IA	Shenandoah/Municipal	KSNT	CA	Hamilton/AAF
KPLN	MI	Pellston/Emmet County	KRFD	IL	Rockford	KSDB	CA	Sandberg	KSNT	AZ	Phoenix/NWSFO
KPMD	CA	Palmdale/Air Force Plant 42	KRGK	MN	Red Wing	KSDF	KY	Louisville/Standiford	KSNT	FL	Sarasota/Bradenton
KPML	AK	Port Moller/AFS	KRGX	NV	Reno/Washoe County/%0533	KSDL	AZ	Scottsdale/Municipal	KSNT	NM	Ruidoso/Regional
KPMP	FL	Pompano Beach				KSDM	CA	San Diego/Brown Field	KSNT	AR	Slatting Mountain
KPNC	OK	Ponca City/Municipal	KRHA	PA	Middle Atlantic/RFC	KSDP	AK	Sand Point	KSNT	AZ	Tucson/NEXRAD Old
KPNE	PA	Philadelphia	KRHA	PA	State College/Mid Atlantic RFC	KSDY	MT	Sidney-Richland	KSNT	SC	Sumter/Shaw AFB
KPNI	AK	Amchitka/ASOS	KRHI	WI	Rhineland/Oneida	KSEA	WA	Seattle-Tacoma/Intl	KSNT	TX	San Antonio/Stinson
KPNM	MN	Princeton	KRHV	CA	San Jose/Reid/Hillville	KSEE	CA	San Diego/Gillespie	KSNT	GA	Brunswick/Malcolm
KPNS	FL	Pensacola/Regional	KRIC	VA	Richmond/Byrd Field	KSEG	PA	Selinsgrove/Penn Valley	KSNT	MI	Sault Ste Marie/FD Point
KPOB	NC	Pope AFB	KRIE	WA	Rice Lake/Municipal	KSEM	AL	Selma/Craig Field	KSNT	AK	Sisters Island
KPOC	CA	La Verne/Brackett	KRIL	CO	Rifle/Garfield Regional	KSEP	TX	Stephenville/Clark Field	KSNT	WV	White Sulphur Spring
KPOE	LA	Fort Polk	KRIU	CA	Rancho Murieta	KSET	MO	St Charles	KSNT	MN	Saint Cloud/Whitney
KPOF	MO	Poplar Bluff	KRIV	CA	Riverside/March AFB	KSEV	WA	Seattle/Sandpoint/NWSFO	KSNT	WI	Stevens Point/Municipal
KPOU	NY	Poughkeepsie	KRIW	WY	Riverton/Regional/%0392	KSEZ	AZ	Sedona/Airport	KSNT	MO	St Joseph/Rosecrans
KPOY	WY	Powell/Municipal	KRIX	CA	Orange County	KSFB	FL	Sanford/Orlando	KSNT	MO	St Louis/Lambert
KPPC	AK	Prospect Creek	KRJO	TX	San Marcos	KSFD	SD	Winner/Bob Wiley	KSNT	MO	St. Louis
KPPF	KS	Parsons/Tri City	KRKD	ME	Rockland/Knox	KSFF	WA	Spokane/Felts Field	KSNT	CA	Sacramento/NWSFO
KPQI	ME	Presque Isle	KRKP	TX	Rockport/Aransas County	KSFM	ME	Sanford/Municipal	KSNT	MN	Saint Paul/Downtown
KPQL	MS	Pascagoula/Lott	KRKS	WY	Rock Springs	KSFO	CA	San Francisco/Intl	KSNT	UT	Salt Lake City/Colorado Basin RFC
KPQN	MN	Pipestone	KRLD	WA	Richland	KSFQ	VA	Suffolk	KSNT	CA	Santa Rosa/Sonoma County
KPQR	OR	Portland/WFO	KRLX	WV	Charleston/Ruthdale/%0334	KSFZ	RI	Pawtucket	KSNT	VI	Charlotte Amalie
KPRB	CA	Paso Robles/Municipal	KRME	NY	Rome/Griffiss AFB	KSGF	MO	Springfield/NWSFO/%0548	KSNT	WI	Christiansted
KPRC	AZ	Prescott/Love Field	KRMG	GA	Rome/Russell	KSGH	OH	Springfield/Municipal	KSNT	WI	Sturgeon Bay
KPRX	TX	Paris/Cox Field	KRMX	NY	Rome/Griffiss AFB/NY26&Borwick	KSGJ	FL	St Augustine	KSNT	ID	Hailey/Friedman Memorial
KPSB	PA	Philipsburg/Mid-State				KSGS	MN	Saint Paul/South	KSNT	MO	St Louis/Spirit Of St Louis
KPSC	WA	Pasco/Tri-Cities	KRMY	MI	Marshall	KSGT	AR	Stuttgart	KSNT	CA	Fairfield/Travis AFB
KPSF	MA	Pittsfield/Municipal	KRND	TX	San Antonio/Randolph AFB	KSGU	UT	Saint George	KSNT	WI	Superior
KPSG	AK	Petersburg	KRNV	CA	Roanoke/Blacksburg/WFO	KSGX	CA	San Diego	KSNT	IA	Sioux City/Municipal
KPSK	VA	Dublin/New River Valley	KRNO	NV	Reno/Cannon Intl	KSGY	AK	Skagway	KSNT	AK	Savoonga/Airport
KPSM	NH	Pease AFB/Portsmouth	KRNT	WA	Renton/Municipal	KSHD	VA	Staunton/Shenandoah	KSNT	NM	Silver City/Grant
KPSP	CA	Palm Springs/Regional	KROA	VA	Roanoke/Municipal	KSHG	AK	Shungnak	KSNT	CA	Susanville/Municipal
KPSR	AZ	Phoenix/WFO	KROC	NY	Rochester/Monroe County	KSHH	AK	Shishmaref	KSNT	NC	Statesville

KSVN	GA	Savannah/Hunter AAF	KTZR	OH	Columbus/Bolton Field	KWMC	NV	Winnemucca/Municipal	PACZ	AK	Cape Romanzoff
KSWD	AK	Seward	KU11	ID	Rexburg	KWMC	NV	Winnemucca/Municipal	PADE	AK	Deering
KSWF	NY	Newburgh/Stewart	KU15	ID	Challis	KWRB	GA	Warner-Robins/AFB	PADK	AK	Adak/NAS Mitchell
KSWO	OK	Stillwater/Municipal	KU16	UT	Eagle Range	KWRG	AK	Wrangell	PADL	AK	Dillingham
KSXQ	AK	Soldotna	KU17	UT	Bullfrog Marina	KWRI	NJ	Wrightstown/McGuire AFB	PADQ	AK	Kodiak
KXSX	AL	Schell/AHP	KU24	UT	Delta	KWRL	WY	Worland/Municipal	PADT	AK	Slana/Airport
KSXT	OR	Sexton Summit	KU28	UT	Green River Range	KWSM	AK	Wiseman/Airport	PADU	AK	Dutch Harbor
KSYL	CA	Camp Roberts	KU31	NV	Austin	KWSN	AK	South Naknek/2	PADU	AK	Unalaska
KSYR	NY	Syracuse/Hancock	KU35	ID	Caldwell	KWSR	PR	San Juan/WFO	PAEC	AK	Chulitna
KSZL	MO	Knob Noster/Whiteman AFB	KU67	UT	Roosevelt	KWST	RI	Westerly	PAED	AK	Anchorage/Elmendorf AFB
			KU71	UT	Vernal	KWVI	CA	Watsonville	PAEG	AK	Eagle Airport
KSZN	CA	Santa Cruz/Island	KU73	ID	Jerome/County	KWVL	ME	Waterville	PAEH	AK	Cape Newenham
KSZP	CA	Santa Paula	KU78	ID	Soda Springs/Tigert	KWWD	NJ	Wildwood	PAEI	AK	Fairbanks/Elson/AFB
KT00	TX	Houston/Clover Field	KUAO	OR	Aurora State	KWWR	OK	West Woodward	PAEL	AK	Elfin Cove/Seaplane
KT02	TX	Houston/Clover Field	KUBW	AK	Kuparuk/Airport	KWYS	MT	West Yellowstone	PAEM	AK	Emmonak
KT04	TX	Georgetown	KUCA	NY	Utica/Oneida County	KX41	FL	New Port Richie/Tampa Bay	PAEN	AK	Kenai/Municipal
KT27	TX	Burnet	KUCC	NV	Yucca Flats/DOE Test Site	KX53	FL	Clewiston	PAER	AK	Stony River Land
KT31	TX	Port Isabel	KUDX	SD	Rapid City/New Underwood	KX68	FL	Cape Kennedy	PAFA	AK	Fairbanks/Intl
KT39	TX	Huntsville	KUEX	NE	Hastings/Webster County	KX80	FL	Jupiter Inlet/CGS	PAFB	AK	Wainwright/AAF
KT46	TX	South Brazos A70	KUGN	IL	Chicago/Waukegan	KX81	FL	Lake Worth/Inlet	PAFE	AK	Kake/Seaplane Base
KT62	UT	Tooele	KUIL	WA	Quillayute State	KX82	FL	Fort Pierce/CGS	PAFL	AK	Farewell/Inter Field
KT98	TX	San Marcos	KUIN	IL	Quincy Municipal/Baldwin	KX84	FL	Islamorada/CGS	PAFM	AK	Ambler
KTAD	CO	Trinidad/Animas County	KUKI	CA	Ukiah/Municipal	KX86	FL	Fowey Rocks/CGS	PAFR	AK	Fort Richardson/Bryn
KTAE	FL	Tallahassee/WFO	KULM	MN	New Ulm/Municipal	KX87	FL	Miami Beach/CGS	PAFV	AK	Five Mile Camp
KTAL	AK	Tanana/Calhoun Memorial	KUMM	AK	Summit	KX88	FL	Marathon/CGS	PAFW	AK	Farewell Lake/City
KTAN	MA	Boston/Taunton	KUMN	MO	Monett	KX89	FL	Fort Myers Beach/CGS	PAGA	AK	Galena
KTAR	MA	Boston/Northeast/RFC	KUMT	AK	Umiat	KX90	FL	Venice/LORAN	PAGB	AK	Galbraith Lake
KTAW	MA	Boston/Taunton/WFO	KUNI	OH	Ohio University/Athen-Albany	KX91	FL	Egmont Key/CGS	PAGK	AK	Gulkana/Airport
KTBN	MO	Fort Leonard Wood	KUNK	AK	Unalakleet	KX9C	MN	Camp Ripley/Miller	PAGM	AK	Gambell
KTBW	FL	Tampa/Ruskin/%0552	KUNO	MO	West Plains	KX15	AK	SSDC	PAGN	AK	Angoon/Seaplane
KTCC	NM	Tucumcari/Municipal	KUNR	SD	Rapid City/NWSFO	KX18	FL	Cape Kennedy/AFS	PAGS	AK	Gustavus
KTCL	AL	Tuscaloosa/Municipal	KUNU	WI	Juneau	KXV6	MN	Longville	PAGT	AK	Nightmute
KTCLM	WA	Tacoma/Mc Chord AFB	KUNV	PA	State College	KXVW	CA	Vandenberg/Range	PAGY	AK	Skagway
KTCS	NM	Truth Or Consequences	KUOX	MS	Oxford University	KY09	MI	Charlevoix/CGS	PAHD	AK	Homer/Municipal
KTDO	WA	Toledo-Winlock/Memorial	KUTS	TX	Huntsville	KY12	MN	Airlake	PAHG	AK	Anchorage/Nikiski/NEXRAD
KTDL	OH	Toledo/Metcalf Field	KUUU	AK	Willow/Airport	KY22	SD	Lemmon	PAHN	AK	Haines
KTEB	NJ	Teterboro/Airport	KUUU	RI	Newport	KY26	SD	Mobridge	PAHO	AK	Homer/Municipal
KTEW	MI	Mason	KUZA	SC	Rock Hill	KY29	MN	Glencoe	PAHP	AK	Hooper Bay
KTEX	CO	Telluride Regional	KVAD	GA	Valdosta/Moody AFB	KY33	MN	Maple Lake	PAHS	AK	Huslia
KTFX	MT	Great Falls/Upper Air Site	KVAX	GA	Valdosta/Moody AFB/GA Rd 129	KY62	MI	Sault Ste Marie	PAHT	AK	Amchitka Island
KTHV	PA	York/Thomasville	KVAY	NJ	Mount Holly/South Jersey	KY84	MI	Mackinac Island	PAHV	AK	Healy River/Airport
KTIK	OK	Oklahoma City/Tinker AFB	KVBG	CA	Vandenberg/AFB	KYAK	AK	Yakutat	PAHY	AK	Hydaburg/Seaplane
KTIH	OH	Cincinnati/Ohio RFC	KVBT	AR	Bentonville	KYIP	MI	Detroit/Willow Run	PAHZ	AK	Hayes River
KTIW	WA	Tacoma	KVBX	CA	Vandenberg/Orcutt Oil Field	KYKM	WA	Yakima/Air Terminal	PAI	AK	Egegik
KTIW	WA	Tacoma Narrows	KVCB	CA	Vacaville/Nut Tree	KYKN	SD	Yankton	PAIK	AK	Kinana/Bob Baker Memorial
KTKX	FL	Titusville	KVCT	TX	Victoria/Regional	KYNG	OH	Youngstown/Municipal	PAIL	AK	Iliamna/Airport
KTKA	AK	Talkeetna	KVCV	CA	Victorville/George AFB	KYUM	AZ	Yuma/Intl	PAIM	AK	Indian Mountain/AFS
KTKI	TX	McKinney	KVDZ	AK	Valdez/2	KYUX	AZ	Yuma/NEXRAD	PAIN	AK	McKinley Park
KTKJ	AK	Tok	KVEF	NV	Las Vegas/WFO	KZ00	AK	Chulitna	PAIZ	AK	Lazy Mtn/Wolverine
KTLH	FL	Tallahassee/NEXRAD/%0551	KVEL	UT	Vernal	KZ01	AK	Tonsina Lodge	PAIZ	AK	Wolverine Road
			KVIH	MO	Rolla/Vichy Airport	KZ03	AK	Egegik	PAJB	AK	Biorka Island/SAWRS
KTLC	OK	Oklahoma City/Twin Lakes/%0001	KVIS	CA	Visalia/Municipal	KZ12	AK	Tok	PAJC	AK	Chignik
			KVJI	VA	Abington	KZ15	AK	Birchwood	PAJN	AK	Juneau/Intl
KTMB	FL	Miami/Kendall-Tamiami	KVJS	MS	Vicksburg/Municipal	KZ21	AK	Biorka Island/SAWRS	PAJO	AK	Johnstone Point
KTNC	AK	Tin City/ETA	KVLA	IL	Vandalia/Municipal	KZ22	AK	Willow/Airport	PAJV	AK	Sutton
KTNU	IA	Newton/Municipal	KVLD	GA	Valdosta/Regional	KZ26	AK	Haines/Boat Harbor	PAKA	AK	Sitka/NEXRAD
KTNX	NV	Tonopah/Test Range	KVNX	OK	Enid/Vance AFB/Kegelman	KZ30	AK	Port Alsworth	PAKK	AK	Koyuk
KTOA	CA	Torrance/Municipal	KVNY	CA	Van Nuys/Airport	KZ32	AK	Isabell Pass Camp	PAKN	AK	King Salmon
KTOB	MN	Dodge Center	KVOK	WI	Volk/Camp Douglas	KZ41	AK	Anchorage/Lake Hood	PAKO	AK	Nikolski
KTOG	AK	Togiak Village	KVPC	GA	Cartersville	KZ42	AK	Farewell Lake/City	PAKP	AK	Anaktuvuk Pass
KTOI	AL	Troy/Municipal	KVPS	FL	Eglin AFB/Valparaiso	KZ49	AK	Hoonah/Seaplane	PAKT	AK	Ketchikan/Intl
KTOL	OH	Toledo Express	KVPZ	IN	Valparaiso/Porter Co	KZ55	AK	Lake Louise	PAKU	AK	Kuparuk/Airport
KTOP	KS	Topeka/Billard Municipal	KVQN	VA	Volens	KZ60	AK	Ambler	PAKW	AK	Klawock
KTOR	WY	Torrington	KVRB	FL	Vero Beach/Municipal	KZ68	AK	Cantwell	PAKH	AK	Anchorage/Lake Hood
KTPA	FL	Tampa/Intl	KVRX	LA	Vermillion/Area	KZ71	AK	Cape Pole/Seaplane	PAKJ	AK	Port Alsworth
KTPH	NV	Tonopah/Airport	KVSF	VT	Springfield/Hartnes	KZ76	AK	Port Alexander	PALK	AK	Snowshoe Lake
KTPL	TX	Temple/Miller	KVTA	OH	Newark	KZ84	AK	Clear	PAKR	AK	Chandalar Lake
KTQE	NE	Tekamah	KVTN	NE	Valentine	KZAB	NM	Albuquerque/ARTCC	PALU	AK	Cape Lisburne
KTRI	TN	Bristol/Johnson/Tri-City	KVTX	CA	Los Angeles/Ojai/NEXRAD/%0396	KZLC	UT	Salt Lake City/ARTCC	PAV	AK	Big River Lake
KTRK	CA	Truckee-Tahoe	KVUO	WA	Vancouver	KZSE	WA	Auburn	PAMC	AK	McGrath
KTRL	TX	Terrell	KVUV	LA	Eugene Island	KZUN	NM	Zuni/Pueblo	PAMD	AK	Middleton Island
KTRM	CA	Thermal/Airport	KVVV	MN	Ortonville	KZZV	OH	Zanesville/Municipal	PAME	AK	Nome/NEXRAD
KTSA	OK	Tulsa/NWSFO	KVWS	AK	Valdez	PAAP	AK	Port Alexander	PAMH	AK	Minchumina
KTSG	AK	Tanacross	KW08	VA	Weirwood/Kellam Fld	PAAQ	AK	Palmer/Municipal	PAML	AK	Manley Hot Springs
KTTD	OR	Portland/Troutdale	KW12	TX	Wichita Falls/Sheppard AFB	PABA	AK	Barter Island/DEW	PAMM	AK	Metlakatla
KTTF	MI	Monroe	KW30	MD	Ocean City/CGLS	PABE	AK	Bethel/Airport	PAMR	AK	Anchorage/Merrill Field
KTTH	NJ	Trenton/Mercer County	KW34	NC	Asheboro	PABG	AK	Big Delta/Arctic Weather	PAMX	AK	McCarthy
KTTS	FL	Cape Kennedy/NASA Shuttle Facility	KW44	VA	Cape Charles/CGS	PABH	AK	Bethel/NEXRAD	PAMY	AK	Mekoryuk
			KW51	NC	Chapel Hill/Williams	PABI	AK	Delta Junction/Fort Greely	PANC	AK	Anchorage/Intl
KTUW	OK	Tulsa/Intl	KW52	NC	Chapel Hill/Williams	PABI	AK	Fort Greely	PANI	AK	Aniak
KTUP	MS	Tupelo/C.D. Lemons	KW53	VA	Smith Point/Sunnybank	PABK	AK	Fairbanks/Pedro Dome/NEXRAD	PANN	AK	Nenana/Municipal
KTUS	AZ	Tucson/Intl	KW63	VA	Clarksville/Marks				PANR	AK	Funter Bay/Seaplane
KTVK	MI	Traverse City/Cherry	KW71	LA	West Cameron/B522	PABL	AK	Buckland	PANT	AK	Annette Island
KTVF	MN	Thief River	KW76	LA	Richmond/Hanover	PABN	AK	Nabesna/Devil Mtn	PANV	AK	Annik/Airport
KTVL	CA	South Lake Tahoe	KW83	VA	Wallops Island/Station	PABR	AK	Barrow/Post-Rogers	PAOH	AK	Hoonah/Seaplane
KTVR	MS	Vicksburg	KW84	VA	Wallops Island/Station	PABT	AK	Bettles/Field	PAOM	AK	Nome
			KW85	VA	Wallops Island/Station	PABV	AK	Birchwood	PAOR	AK	Northway
KTWC	AZ	Tucson/WFO	KW86	VA	Richmond/Hanover	PACD	AK	Cold Bay/Airport	PAOT	AK	Kotzebue/Ralph Wien
KTWF	ID	Twin Falls/Joslin	KW87	VA	Richmond/Hanover	PACL	AK	Clear	PAPB	AK	St George Island
KTWM	MN	Two Harbors	KW88	VA	Richmond/Hanover	PACP	AK	Cape Saint Elias	PAPC	AK	Port Clarence/CGS
KTWX	KS	Topeka/Alma/%0554	KW89	VA	Richmond/Hanover	PACR	AK	Circle City/Airport	PAPG	AK	Petersburg
KTKX	AK	Texarkana/Regional Webb	KW90	VA	Richmond/Hanover	PACS	AK	Cape Sarichef/Airport	PAPH	AK	Port Heiden/AMOS
KTYR	TX	Tyler/Pounds Field	KW91	VA	Richmond/Hanover	PACV	AK	Cordova/Mile 13	PAPM	AK	Platinum
KTYS	TN	Knoxville/Municipal	KW92	VA	Richmond/Hanover	PACY	AK	Yakataga/Cape	PAPO	AK	Point Hope

PAPT	AK	Puntilla/Lake
PAQC	AK	Klawock/Seaplane
PAQT	AK	Nuqsut
PARC	AK	Arctic Village
PARD	AK	Red Dog Mine
PASA	AK	Savoonga/Airport
PASC	AK	Deadhorse
PASD	AK	Sand Point
PASH	AK	Shishmaref
PASI	AK	Sitka/Japonski Airport
PASK	AK	Selanik
PASL	AK	Sleetmute
PASM	AK	Saint Mary's
PASN	AK	Saint Paul Island
PASO	AK	Seldovia
PASP	AK	Sheep Mountain
PASV	AK	Sparrevohn
PASW	AK	Skwentna
PASX	AK	Soldotna
PASY	AK	Shemya/Eareckson/AFS
PATA	AK	Tanana/Calhoun Memorial
PATC	AK	Tin City/AFS
PATG	AK	Togiach Village
PATJ	AK	Tok
PATK	AK	Talkeetna
PATL	AK	Tatalina
PATO	AK	Portage/Visitor Center
PATW	AK	Cantwell
PAUD	AK	Prudhoe Bay
PAUM	AK	Umiat
PAUN	AK	Unalakleet
PAUO	AK	Willow/Airport
PAVD	AK	Valdez/2
PAVV	AK	Valdez
PAWD	AK	Seward
PAWG	AK	Wrangell
PAWI	AK	Wainwright/DEW
PAWN	AK	Noatak
PAWR	AK	Whittier
PAWS	AK	New Wasilla
PAXK	AK	Paxson
PAYA	AK	Yakutat
PAZA	AK	Anchorage/ARTCC
PAZK	AK	Eureka
PAZK	AK	Skelton
PFYU	AK	Fort Yukon
PHBK	HI	Barking Sands;Kauai
PHBK	HI	Kekaha
PHHI	HI	Wheeler AFB/Oahu
PHHN	HI	Hana Arpt/Maui
PHIK	HI	Hickam AFB/Oahu
PHJH	HI	Lahaina;Maui
PHKI	HI	South Kauai/NEXRAD
PHKM	HI	Kamuela;Kauai/NEXRAD
PHKO	HI	Keahole/Kailua/Kona
PHKO	HI	Kona/Kailua
PHLI	HI	Lihue/Airport;Kauai
PHLU	HI	Kalaupapa
PHMK	HI	Molokai
PHMO	HI	Molokai/NEXRAD
PHMU	HI	Kamuela/Waimea-Kohala Arpt
PHNA	HI	Barbers Point NAS;Oahu
PHNG	HI	Kaneohe MCAS;Oahu
PHNL	HI	Honolulu/Intl;Oahu
PHNY	HI	Lanai City/Airport
PHOG	HI	Kahului;Maui
PHSF	HI	Bradshaw AAF/Hawaii
PHTO	HI	Hilo
PHUP	HI	Upolu Point/CGS
PHWA	HI	Hawaii/South/NEXRAD
PHZH	HI	Honolulu/ARTCC
PMDY	HI	Midway Island/NAF
POLI	AK	Oliktok/DEW
PPIZ	AK	Point Lay/DEW
TJNR	PR	Roosevelt Roads

IDENTIFIERS BY STATE & CITY

The following is a listing of ICAO identifiers used in METAR reports for the United States and Canada.

CWBA	AB	Bariff	KAKP	AK	Anaktuvuk Pass	KDEE	AK	Deering	PAJN	AK	Juneau/Intl
CWZG	AB	Bariff	PAKP	AK	Anaktuvuk Pass	KDRG	AK	Deering	KAJK	AK	Juneau/WFO
CWBM	AB	Beaverlodge	KACR	AK	Anchorage/Alaska RFC	PADE	AK	Deering	KKAE	AK	Kake/Seaplane Base
CWSV	AB	Blue River	PAZA	AK	Anchorage/ARTCC	KBIG	AK	Delta Junction/Fort Greely	PAFE	AK	Kake/Seaplane Base
CYCP	AB	Blue River	PAED	AK	Anchorage/Elmendorf AFB	PABI	AK	Delta Junction/Fort Greely	KKAL	AK	Kaltag
CWXL	AB	Bow Island	KANC	AK	Anchorage/Intl	KDTK	AK	Dietrick/Private	KKYK	AK	Karluk
CWXA	AB	Bow Valley	PANC	AK	Anchorage/Intl	KDLG	AK	Dillingham	KENA	AK	Kenai/Municipal
CWBO	AB	Brooks	KLHD	AK	Anchorage/Lake Hood	PADL	AK	Dillingham	PAEN	AK	Kenai/Municipal
CYBW	AB	Calgary/Springbank	KZ41	AK	Anchorage/Lake Hood	KDUT	AK	Dutch Harbor	KKTN	AK	Ketchikan/Intl
CYYC	AB	Calgary/Sundre	PALH	AK	Anchorage/Lake Hood	PADU	AK	Dutch Harbor	PAKT	AK	Ketchikan/Intl
CWRV	AB	Camrose	KMRI	AK	Anchorage/Merrill Field	KEAA	AK	Eagle Airport	KIAN	AK	Kinana/Bob Baker Memorial
CWFJ	AB	Cardston	PAMR	AK	Anchorage/Merrill Field	PAEG	AK	Eagle Airport			
CWHK	AB	Carvel	KAHG	AK	Anchorage/Nikiski/ NEXRAD	KZ03	AK	Egegik	PAIK	AK	Kinana/Bob Baker Memorial
CWDK	AB	Claresholm				PAIL	AK	Egegik			
CYOD	AB	Cold Lake/Military	PAHG	AK	Anchorage/Nikiski/ NEXRAD	KERO	AK	Eldred Rock	KAKN	AK	King Salmon
CWDU	AB	Cop Upper				KELV	AK	Elfin Cove/Seaplane	PAKN	AK	King Salmon
CWCT	AB	Coronation	KAFC	AK	Anchorage/WFO	PAEL	AK	Elfin Cove/Seaplane	KQRC	AK	King Salmon/AFS
CYCT	AB	Coronation	KAGN	AK	Angoon/Seaplane	KENM	AK	Emmonak	KAKC	AK	King Salmon/NEXRAD
CWRT	AB	Crowsnest	PAGN	AK	Angoon/Seaplane	PAEM	AK	Emmonak	KKVL	AK	Kivalina
CWDZ	AB	Drumheller East	KANI	AK	Aniak	PAZK	AK	Eureka	K9Z1	AK	Klawock
CWEG	AB	Edmonton/Alberta Weather Centre	PANI	AK	Aniak	PAEI	AK	Fairbanks/Eielson/AFB	KAKW	AK	Klawock
			KANN	AK	Annette Island	KEIL	AK	Fairbanks/Eielson/ETA	PAKW	AK	Klawock
CYEG	AB	Edmonton/Intl	PANT	AK	Annette Island	KFAI	AK	Fairbanks/Intl	K9Z0	AK	Klawock/Seaplane
CYXD	AB	Edmonton/Municipal	PANV	AK	Annik/Airport	PAFA	AK	Fairbanks/Intl	KAQC	AK	Klawock/Seaplane
CYED	AB	Edmonton/Namao	KARC	AK	Arctic Village	KAPD	AK	Fairbanks/Pedro Dome/ NEXRAD	PAQC	AK	Klawock/Seaplane
CWSE	AB	Edmonton/Stony Plain	PARC	AK	Arctic Village				KADQ	AK	Kodiak
CZED	AB	Edmonton/Stony Plain/Test	KATU	AK	Attu/Casco Cove/CGS	PABK	AK	Fairbanks/Pedro Dome/ NEXRAD	PAQK	AK	Kodiak
CZVL	AB	Edmonton/Villeneuve	KBRW	AK	Barrow/Post-Rogers				KOTZ	AK	Kotzebue/Ralph Wien
CYET	AB	Edson/Airport	PABR	AK	Barrow/Post-Rogers	KAFG	AK	Fairbanks/WFO	PAOT	AK	Kotzebue/Ralph Wien
CWFE	AB	Elk Island National Prk	KBTI	AK	Barter Island/DEW	KZ42	AK	Farewell Lake/City	PAKK	AK	Koyuk
CWHE	AB	Ellerslie	PABA	AK	Barter Island/DEW	PAFW	AK	Farewell Lake/City	KUBW	AK	Kuparuk/Airport
CWGY	AB	Esther 1	KBLG	AK	Beluga/Private	KFWL	AK	Farewell/Inter Field	PAKU	AK	Kuparuk/Airport
CWPY	AB	Fort Chipewyan	KBET	AK	Bethel/Airport	PAFL	AK	Farewell/Inter Field	KZ55	AK	Lake Louise
CYPY	AB	Fort Chipewyan/Airport	PABE	AK	Bethel/Airport	KFIV	AK	Five Finger/Lighthouse	K5WO	AK	Lazy Mtn/Wolverine
CYMM	AB	Fort McMurray/Airport	KABC	AK	Bethel/NEXRAD	KFVM	AK	Five Mile Camp	KIZY	AK	Lazy Mtn/Wolverine
CWGF	AB	Garden River	PABH	AK	Bethel/NEXRAD	PAFV	AK	Five Mile Camp	PAIZ	AK	Lazy Mtn/Wolverine
CYQU	AB	Grande Prairie/Airport	KBTT	AK	Bettles/Field	PABI	AK	Fort Greely	KLVD	AK	Level Island
CWPA	AB	Hendrickson	PABT	AK	Bettles/Field	PAFR	AK	Fort Richardson/Bryn	KMLY	AK	Manley Hot Springs
CYQJ	AB	High Level/Airport	PABG	AK	Big Delta/Arctic Weather	KFYU	AK	Fort Yukon	PAML	AK	Manley Hot Springs
CZHP	AB	High Prairie/Airport	K5BI	AK	Big River Lake	PFYU	AK	Fort Yukon	KMXY	AK	McCarthy
CWHA	AB	Highvale	KLVR	AK	Big River Lake	KFKF	AK	Franklin Bluffs	PAMX	AK	McCarthy
CWJA	AB	Jasper	PALV	AK	Big River Lake	KFPN	AK	Fredericks Point	KMCG	AK	McGrath
CWJW	AB	Jasper Warden	KAJB	AK	Biorka Island/SAWRS	KFNR	AK	Funter Bay/Seaplane	PAMC	AK	McGrath
CWLB	AB	Lac La Biche	KZ21	AK	Biorka Island/SAWRS	PANR	AK	Funter Bay/Seaplane	K5MK	AK	McKinley Park
CWQQ	AB	Lacombe Cda	PAJB	AK	Biorka Island/SAWRS	KGBH	AK	Galbraith Lake	KINR	AK	McKinley Park
CWQL	AB	Lethbridge	KZ15	AK	Birchwood	PAGB	AK	Galbraith Lake	PAIN	AK	McKinley Park
CYQL	AB	Lethbridge/Airport	PABV	AK	Birchwood	KGAL	AK	Galena	KMYU	AK	Mekoryuk
CYXH	AB	Medicine Hat/Airport	KBVK	AK	Buckland	PAGA	AK	Galena	PAMY	AK	Mekoryuk
CWMX	AB	Mildred Lake	PABL	AK	Buckland	KGAM	AK	Gambell	PAMM	AK	Mettakatta
CWRY	AB	Milk River	KTTW	AK	Cantwell	PAGM	AK	Gambell	KMDO	AK	Middleton Island
CWNR	AB	Nakiska/Ridgetop	KZ68	AK	Cantwell	KGKN	AK	Gulkana/Airport	PAMD	AK	Middleton Island
CWOE	AB	Onefour	PATW	AK	Cantwell	PAGK	AK	Gulkana/Airport	KAIH	AK	Middleton Island/NEXRAD
CYPE	AB	Peace River/Airport	KCDE	AK	Cape Decision	KGST	AK	Gustavus	KMHM	AK	Minchumina
....	AB	Pincher Creek	K5HN	AK	Cape Hinchinbrook	PAGS	AK	Gustavus	PAMH	AK	Minchumina
CZPC	AB	Pincher Creek/Airport	PALU	AK	Cape Lisburne	KHNS	AK	Haines	KMOS	AK	Moses Point
CWIQ	AB	Primrose Lake	KLUR	AK	Cape Lisburne/ETA	PAHN	AK	Haines	KMOU	AK	Mountain Village
CWOU	AB	Primrose Lake/2	PAEH	AK	Cape Newenham	KZ26	AK	Haines/Boat Harbor	K5MU	AK	Mt McKinley Natl Park
CYQF	AB	Red Deer/Airport	KZ71	AK	Cape Pole/Seaplane	KHVV	AK	Happy Valley	KIBN	AK	Nabesna/Devil Mtn
CWRD	AB	Red Earth	PACZ	AK	Cape Romanzoff	K5HR	AK	Hayes River	PABN	AK	Nabesna/Devil Mtn
CWRM	AB	Rocky House	K5CE	AK	Cape Saint Elias	KHZZ	AK	Hayes River	KENN	AK	Nenana/Municipal
CYRM	AB	Rocky Mountain House	KCP1	AK	Cape Saint Elias	PAHZ	AK	Hayes River	PANN	AK	Nenana/Municipal
CYZH	AB	Slave Lake/Airport	PACP	AK	Cape Saint Elias	K5EA	AK	Healy River/Airport	PAWS	AK	New Wasilla
CWSH	AB	Sousa Creek	KCSH	AK	Cape Saricheff/Airport	KHVI	AK	Healy River/Airport	KIGT	AK	Nightmute
CWGW	AB	Sparwood	PACS	AK	Cape Saricheff/Airport	PAHV	AK	Healy River/Airport	PAGT	AK	Nightmute
CWSW	AB	Sparwood/Elk Valley	KCSP	AK	Cape Spencer	KHBK	AK	Hinchinbrook	KIKO	AK	Nikolski
CYSD	AB	Suffield/Airport	KWCR	AK	Chandalar Lake	KHOM	AK	Homer/Municipal	PAKO	AK	Nikolski
CWAV	AB	Sundre/Airport	PALR	AK	Chandalar Lake	PAHD	AK	Homer/Municipal	PAWN	AK	Noatak
CWHI	AB	Three Hills	K5CD	AK	Chandalar Shelf	PAHO	AK	Homer/Municipal	KOME	AK	Nome
CWVO	AB	Vauxhall	PAJC	AK	Chignik	KOOH	AK	Hoonah/Seaplane	PAOM	AK	Nome
CWVI	AB	Vegreville	KIEC	AK	Chulitna	KZ49	AK	Hoonah/Seaplane	KAEC	AK	Nome/NEXRAD
CWUN	AB	Vulcan	KZ00	AK	Chulitna	PAOH	AK	Hoonah/Seaplane	PAME	AK	Nome/NEXRAD
CYWW	AB	Wainwright/Airport	PAEC	AK	Chulitna	KHPB	AK	Hooper Bay	KORT	AK	Northway
CZWN	AB	Wainwright/CFB	KCRC	AK	Circle City/Airport	PAHP	AK	Hooper Bay	PAOR	AK	Northway
CWGM	AB	Waterton Park/Gate	PACR	AK	Circle City/Airport	KHUS	AK	Hughes	K10A	AK	Nuqsut
CYZU	AB	Whitcourt/Airport	KCHP	AK	Circle Hot Springs	KHSL	AK	Huslia	PAQT	AK	Nuqsut
CWVO	AB	Willow Creek	KZ84	AK	Clear	PAHS	AK	Huslia	K50C	AK	Ocean Cape/CGS
CWYL	AB	Yoho Park	PACL	AK	Clear	KHYG	AK	Hydaburg/Seaplane	KOLI	AK	Oliktok/DEW
KADK	AK	Adak/NAS Mitchell	KCDP	AK	Cold Bay/Airport	PAHY	AK	Hydaburg/Seaplane	POLI	AK	Oliktok/DEW
PADK	AK	Adak/NAS Mitchell	PACB	AK	Cold Bay/Airport	KILI	AK	Iliamna/Airport	KPAQ	AK	Palmer/Municipal
KAFM	AK	Ambler	KCXF	AK	Coldfoot/SAWRS	PAIL	AK	Iliamna/Airport	PAAQ	AK	Palmer/Municipal
KZ60	AK	Ambler	KCDV	AK	Cordova/Mile 13	PAIM	AK	Indian Mountain/AFS	K5PX	AK	Paxson
PAFM	AK	Ambler	PACV	AK	Cordova/Mile 13	KZ32	AK	Isabell Pass Camp	KPKX	AK	Paxson
KAHT	AK	Amchitka Island	KCGA	AK	Craig/Seaplane	KJOH	AK	Johnstone Point	PAXK	AK	Paxson
PAHT	AK	Amchitka Island	KSCC	AK	Deadhorse	PAJO	AK	Johnstone Point	KPSG	AK	Petersburg
KPNI	AK	Amchitka/ASOS	PASC	AK	Deadhorse	KJUN	AK	Juneau	PAPG	AK	Petersburg
			K0Z0	AK	Deering	KJNU	AK	Juneau/Intl	KPTU	AK	Platinum

PAPM	AK	Platinum	PAUN	AK	Unalakleet	KIFF	AZ	Bullhead City	CWEK	BC	Grey Islet
KPHO	AK	Point Hope	PADU	AK	Unalaska	KP06	AZ	Bullhead City	CWXM	BC	Helmsken Island
PAPO	AK	Point Hope	KVWS	AK	Valdez	KCGZ	AZ	Casa Grande	CWLP	BC	Herbert Island
KPIZ	AK	Point Lay/DEW	PAVW	AK	Valdez	KIWA	AZ	Chandler/Mesa/Williams AFB	CWHJ	BC	Holberg
PPIZ	AK	Point Lay/DEW	KVDZ	AK	Valdez/2				CWXH	BC	Holberg
KPRT	AK	Point Retreat	PAVD	AK	Valdez/2	KDUG	AZ	Douglas-Bisbee/Intl	CWHL	BC	Holland Rock
KAHP	AK	Port Alexander	K5WW	AK	Wainwright	KFLG	AZ	Flagstaff	CYHE	BC	Hope Airport
KZ76	AK	Port Alexander	KAWI	AK	Wainwright	KFLG	AZ	Flagstaff	CWKV	BC	Hope Slide
PAAP	AK	Port Alexander	PAFB	AK	Wainwright/AAF	KFSX	AZ	Flagstaff/Coconino	CWFR	BC	Horsefly River
KALJ	AK	Port Alsworth	KAJN	AK	Wainwright/DEW	KFGZ	AZ	Flagstaff/WFO	CWZK	BC	Hoskins Inlet
KPJA	AK	Port Alsworth	PAWI	AK	Wainwright/DEW	KFHU	AZ	Fort Huachuca/Libby	CWWU	BC	Ingenika Point
KZ30	AK	Port Alsworth	K5WT	AK	Whittier	KGBN	AZ	Gila Bend/AAF	CWIO	BC	Iskut River
PALJ	AK	Port Alsworth	KIEM	AK	Whittier	KE63	AZ	Gila Bend/Municipal	CYKA	BC	Kamloops/Airport
KKPC	AK	Port Clarence/CGS	PAWR	AK	Whittier	KGEU	AZ	Glendale	CYLW	BC	Kelowna/Airport
PAPC	AK	Port Clarence/CGS	KUUO	AK	Willow/Airport	KGYR	AZ	Goodyear/Municipal	CWQS	BC	Kindakun Rocks
KPTH	AK	Port Heiden/AMOS	KZ22	AK	Willow/Airport	KGCN	AZ	Grand Canyon/Park	CWKI	BC	Kitimat
PAPH	AK	Port Heiden/AMOS	PAUO	AK	Willow/Airport	K40G	AZ	Grand Canyon/Valley	CWJU	BC	Langara
KPML	AK	Port Moller/AFS	KWSM	AK	Wiseman/Airport	K0V7	AZ	Kayenta	CWLC	BC	Lucy Island/Lighthouse
KA23	AK	Portage	PAIZ	AK	Wolverine Road	KIGM	AZ	Kingman	CWLY	BC	Lytton/Readac
PATO	AK	Portage/Visitor Center	KWRG	AK	Wrangell	KLHU	AZ	Lake Havasu	CYZY	BC	Mackenzie/Airport
KPPC	AK	Prospect Creek	PAWG	AK	Wrangell	KP65	AZ	Lukeville	CWKH	BC	Malahat
KPUO	AK	Prudhoe Bay	KCYT	AK	Yakataga/Cape	KFFZ	AZ	Mesa/Falcon Field	CWMA	BC	Masset
PAUD	AK	Prudhoe Bay	PACY	AK	Yakataga/Cape	K13A	AZ	Nogales	CWMS	BC	McInnes Island
KPTI	AK	Puntilla/Lake	KYAK	AK	Yakutat	KOLS	AZ	Nogales	CWMM	BC	Merry Island
PAPT	AK	Puntilla/Lake	PAYA	AK	Yakutat	KPGA	AZ	Page/Municipal	CBS4	BC	Mule Creek
PARD	AK	Red Dog Mine	K21A	AL	Alabaster/Shelby County	K0E4	AZ	Payson	CWNR	BC	Nakiska Ridgetop
KKSM	AK	Saint Mary's	KEET	AL	Alabaster/Shelby County	KPJB	AZ	Payson	CWNP	BC	Nakusp
PASM	AK	Saint Mary's	K79J	AL	Andalusia/Opp Airport	KDVT	AZ	Phoenix/Deer Valley	CYCD	BC	Nanaimo/Airport
KSNP	AK	Saint Paul Island	KANB	AL	Anniston/Calhoun County	KLUF	AZ	Phoenix/Luke AFB	CWCB	BC	Nanakwa Shoals
PASN	AK	Saint Paul Island	KAUO	AL	Auburn/Opelika Airport	KSRP	AZ	Phoenix/NWSFO	CWNX	BC	Nechako River
KSDP	AK	Sand Point	KAUB	AL	Auburn/University	KPHX	AZ	Phoenix/Sky Harbor	CWNM	BC	Nelson
PASD	AK	Sand Point	KBHM	AL	Birmingham/Municipal	KPSR	AZ	Phoenix/WFO	CWAC	BC	Nitinat Lake
KSVA	AK	Savoonga/Airport	KBMX	AL	Birmingham/Shelby/0320	KPRC	AZ	Prescott/Love Field	CWCV	BC	Nootka/Lightstation
PASA	AK	Savoonga/Airport	KCKL	AL	Centreville/Bibb County	KE74	AZ	Safford/Municipal	CWYY	BC	Osoyoos
PASK	AK	Selanik	KDCU	AL	Decatur/Pryor Field	KSAD	AZ	Safford/Municipal	CWVR	BC	Pacific Weather Center
KSOV	AK	Seldovia	KDHN	AL	Dothan/Municipal	KSDL	AZ	Scottsdale/Municipal	CWAS	BC	Pam Rocks
PASO	AK	Seldovia	K39J	AL	Evergreen/Middleton ASOS	KSEZ	AZ	Sedona/Airport	CWGP	BC	Pemberton/Airport
KSWD	AK	Seward	KGZH	AL	Evergreen/Middleton ASOS	KSOW	AZ	Show Low/Municipal	CYF	BC	Penticton/Airport
KSWD	AK	Seward	KLOR	AL	Fort Rucker/Lowe AHP	KSJN	AZ	St Johns/Air Park	CWPI	BC	Pine Island
PAWD	AK	Seward	KEOX	AL	Fort Rucker/NEXRAD	KDMA	AZ	Tucson/Davis-Monthan AFB	CWMM	BC	Pine Meadows
KSMU	AK	Sheep Mountain	KGAD	AL	Gadsden/Municipal				CWQC	BC	Port Alberni
PASP	AK	Sheep Mountain	KHSV	AL	Huntsville/Madison	KTUS	AZ	Tucson/Intl	CYPB	BC	Port Alberni/Airport
PASY	AK	Shernya/Eareckson/AFS	KHTX	AL	Hypot	KEMX	AZ	Tucson/NEXRAD	CY2T	BC	Port Hardy/Airport
KSHH	AK	Shishmaref	KMOB	AL	Mobile/Bates Field/0509	KSRX	AZ	Tucson/NEXRAD Old	CYPW	BC	Powell River/Airport
PASH	AK	Shishmaref	KBFM	AL	Mobile/Downtown	KTWC	AZ	Tucson/WFO	CYXS	BC	Prince George/Airport
KSHG	AK	Shungnak	K8R1	AL	Mobile/Point CGS	KP34	AZ	Window Rock	CZXS	BC	Prince George/Rawinsonde
KSSR	AK	Sisters Island	KMGH	AL	Montgomery/Dannelly	KRQE	AZ	Window Rock	CYPR	BC	Prince Rupert/Airport
KSIT	AK	Sitka/Japanski Airport	KMXF	AL	Montgomery/Maxwell AFB	KINW	AZ	Winslow	CWPR	BC	Princeton
PASI	AK	Sitka/Japanski Airport	KMXX	AL	Montgomery/Maxwell AFB/ NEXRAD	KINW	AZ	Winslow	CYDC	BC	Princeton/Airport
KACG	AK	Sitka/NEXRAD				KYUM	AZ	Yuma/Intl	CWPU	BC	Puntzi Mountain
PAKA	AK	Sitka/NEXRAD	KMSL	AL	Muscle Shoals/Regional	KYLAL	AZ	Yuma/MCAS	CWIF	BC	Quatsino/LS
KSKJ	AK	Sitkinak/CGS	KOZR	AL	Ozark/Cairns AAF	KYUX	AZ	Yuma/NEXRAD	CWQZ	BC	Quesnel
KSGY	AK	Skagway	KHEY	AL	Ozark/Hancock AHP	K1Y7	AZ	Yuma/Proving Grounds	CYQZ	BC	Quesnel/Airport
PAGY	AK	Skagway	K8R0	AL	Pascagoula/CGS	KMNC	BA	Andros Island	CWQK	BC	Race Rocks
PAZK	AK	Skelton	....	AL	Redstone Arsenal	CYXX	BC	Abbotsford/Airport	CYRV	BC	Revelstoke/Airport
KSKW	AK	Skwentna	KXSX	AL	Schell/AHP	CWCZ	BC	Addenbroke Island/Lighthouse	CWRO	BC	Rose Spit
PASW	AK	Skwentna	KSEM	AL	Selma/Craig Field				CWSL	BC	Salmon Arm
KSSZ	AK	Slana/Airport	KTOI	AL	Troy/Municipal	CWZA	BC	Agassiz	CWVF	BC	Sand Heads/LS
KDDT	AK	Slana/Airport	KTCL	AL	Tuscaloosa/Municipal	CWAQ	BC	Alert Bay	CY2P	BC	Sandspit/Airport
PADT	AK	Slana/Airport	KBVX	AR	Batesville	CWAN	BC	Amphitrite Point	CWFG	BC	Sartine Island
KSLQ	AK	Sleetmute	KH00	AR	Bentonville	CEY5	BC	Atlin	CWEZ	BC	Saturna Island
PASL	AK	Sleetmute	KVBT	AR	Bentonville	CWGB	BC	Ballenas Island	CWZD	BC	Scudder Point
K5SO	AK	Snowshoe Lake	KHKA	AR	Blytheville	CYBD	BC	Bella Coola/Airport	CWSP	BC	Sheringham Point
KLLK	AK	Snowshoe Lake	KBYH	AR	Blytheville/Eaker AFB	CWBG	BC	Big Creek	CWGT	BC	Sisters Island
PALK	AK	Snowshoe Lake	KCDH	AR	Camden/Harrell Field	CWZM	BC	Boat Bluff/Lighthouse	CY2D	BC	Smithers/Airport
K5XQ	AK	Soldotna	KDEQ	AR	De Queen/Helms	CWWL	BC	Bonilla Island	CWRU	BC	Solander Island
PASX	AK	Soldotna	KF90	AR	De Queen/Helms	CWPZ	BC	Burns Lake	CWGW	BC	Sparwood
KWSN	AK	South Naknek/2	KELD	AR	El Dorado/Goodwin	CYPZ	BC	Burns Lake	CWSK	BC	Squamish Arpt
PASV	AK	Sparrevohn	KFYV	AR	Fayetteville/Drake Field	CYBL	BC	Campbell River/Airport	CZST	BC	Stewart/Airport
KXIS	AK	SSDC	KFLP	AR	Flippin	CWAD	BC	Cape Mudge/Lighthouse	CWUS	BC	Summerland
KPBV	AK	St George Island	KQCU	AR	Fort Chaffee	CWES	BC	Cape Scott/Lighthouse	CYXT	BC	Terrace/Airport
PAPB	AK	St George Island	KFSM	AR	Fort Smith/Municipal	CWZV	BC	Cape St James	CYAZ	BC	Tofino/Airport
PAER	AK	Stony River Land	KHRO	AR	Harrison/Boone County	CAU9	BC	Cassiar	CWTI	BC	Triple Island/Lighthouse
KUMM	AK	Summit	KHOT	AR	Hot Springs/Memorial	CYCG	BC	Castlegar/Airport	CWNT	BC	Turtle Mountain
KJVM	AK	Sutton	KJBR	AR	Jonesboro/Municipal	CWME	BC	Cathedral Point	CWHC	BC	Vancouver Harbour
PAJV	AK	Sutton	KLIT	AR	Little Rock/Adams Field	CWFM	BC	Chatham Point/Lighthouse	CYVR	BC	Vancouver/Intl
K5GN	AK	Tahnetna Pass	KLRF	AR	Little Rock/AFB	CYQY	BC	Chetwynd/Airport	CWWA	BC	Vancouver/West
KTKA	AK	Talkeetna	KM39	AR	Mena/Intermountain	CWCL	BC	Clinton	KJ3V	BC	Vernon
PATK	AK	Talkeetna				CYQQ	BC	Comox/Military	CWVK	BC	Vernon
KTSG	AK	Tanacross	KLLQ	AR	Monticello	CYXC	BC	Cranbrook/Airport	CYWH	BC	Victoria Harbour
KTAL	AK	Tanana/Calhoun Memorial	KM76	AR	Monticello	CWJR	BC	Creston	CWLM	BC	Victoria/Gonzales
PATA	AK	Tanana/Calhoun Memorial	KBPX	AR	Mountain Home/Baxter	CWZL	BC	Cumshewa Island	CWVV	BC	Victoria/Hartland
PATL	AK	Tatalina	KLZK	AR	North Little Rock/0395	CYDQ	BC	Dawson Creek/Airport	CYVJ	BC	Victoria/Intl
PATC	AK	Tin City/AFS	KPBF	AR	Pine Bluff/Grider	CWDL	BC	Dease Lake	CWIR	BC	Victoria/Marine
KTNC	AK	Tin City/ETA	KROG	AR	Rogers	CWKX	BC	Dease Lake/CS	CWYJ	BC	Victoria/University
KTOG	AK	Togiak Village	KM06	AR	Russellville	CYDL	BC	Dease Lake/FD Point	CWWA	BC	West End Cypress
PATG	AK	Togiak Village	KRUE	AR	Russellville	CWAU	BC	Dryad Point/Lighthouse	CWAE	BC	Whistler
KTKJ	AK	Tok	KSLG	AR	Siloam Springs	CWEM	BC	Egg Island	CWWK	BC	White Rock
KZ12	AK	Tok	KSRX	AR	Slatington Mountain	CWEL	BC	Entrance Island	CYWL	BC	Williams Lake/Airport
PATJ	AK	Tok	KASG	AR	Springdale/Municipal	CWPF	BC	Esquimalt/METOC	KNGZ	CA	Alameda NAS/Nimitz
KZ01	AK	Tonsina Lodge	KSGT	AR	Stuttgart	CWEB	BC	Estevan Point	KAAT	CA	Alturas
KMUJ	AK	Toolik	KTXK	AR	Texarkana/Regional Webb	CWTC	BC	Ethelinda Bay	KO00	CA	Alturas
KUMT	AK	Umiaut Ridge	KARG	AR	Walnut Ridge	CY1E	BC	Fort Nelson/Airport	KS11	CA	Alturas
PAUM	AK	Umiaut	KAWM	AR	West Memphis/Municipal	CYXJ	BC	Fort St. John/Airport	KL46	CA	Anacapa Island
KUNK	AK	Unalakleet	KP01	AZ	Ajo/Municipal	CYGE	BC	Golden/Airport	KAPV	CA	Apple Valley

KACV	CA	Arcata/Eureka Airport	....	CA	Monterey/NAF	KSMO	CA	Santa Monica/Municipal	KDXR	CT	Danbury/Municipal
KAVX	CA	Avalon/Catalina	KMHS	CA	Mount Shasta	K1L2	CA	Santa Monica/Pier	K30N	CT	Faulkner Island/CGLS
KBFL	CA	Bakersfield/Meadows	KMWS	CA	Mount Wilson	KS2P	CA	Santa Paula	KGON	CT	Groton/New London
KBNG	CA	Banning/Municipal	KNUQ	CA	Mountain View/Moffett NAS	KSTS	CA	Santa Rosa/Sonoma County	KHFD	CT	Hartford/Brainard
KBAB	CA	Beale AFB	KMHS	CA	Mt Shasta				KBDL	CT	Hartford/Windsor Locks/Bradley
KBBX	CA	Beale AFB/Oro Dam Blvd West	KAPC	CA	Napa/County Airport	KIZA	CA	Santa Ynez	K32N	CT	Little Gulf Island/LS
KBUO	CA	Beaumont	KEED	CA	Needles/Airport	KL21	CA	Scripps Pier/La Jolla	KMMK	CT	Meriden
KBYS	CA	Bicycle Lake/AAF	K3L3	CA	Newport Beach	K087	CA	Shelter Cove	KN11	CT	New Haven/CGS
KL35	CA	Big Bear City/Airport	KOAK	CA	Oakland/Metropolitan	....	CA	Sheridan	KHVN	CT	New Haven/Tweed
KBIH	CA	Bishop/Airport	KNFG	CA	Oceanside/Camp Pendleton	K2L7	CA	Solana Beach	K18N	CT	New London Ledge/CGS
KBLU	CA	Blue Canyon/Emigrant Gap	KL34	CA	Oceanside/Harbor	....	CA	South Vandenberg/AFB	KOXC	CT	Oxford
K84Q	CA	Blunts Reef/CGS	KL32	CA	Oceanside/Municipal	K86Q	CA	St George Reef/CGLS	K1JD	CT	Willimantic
KBLH	CA	Blythe/Airport	KOKB	CA	Oceanside/Municipal	KSCK	CA	Stockton/Metropolitan	K5B0	CT	Willimantic/Windham
K92Q	CA	Bodega Bay/CGLS	KONT	CA	Ontario/Intl	K4SU	CA	Superior Valley/Gunnery	KDOV	DE	Dover/AFB
KBUR	CA	Burbank/Glendale	KRIX	CA	Orange County	KSVE	CA	Susanville/Municipal	KDOX	DE	Dover/AFB/Ellendale Forest
KBNY	CA	Burney	KOVE	CA	Oroville	KQ67	CA	Tahoe City/CGS	KGED	DE	Georgetown/Sussex
KL14	CA	Cabrillo Beach	KOXR	CA	Oxnard	KL82	CA	Terminal Island	K61N	DE	Indian River/CGS
KRSA	CA	California/River Center	KL79	CA	Oxnard/Channel Island	KTRM	CA	Thermal/Airport	KILG	DE	Wilmington/Airport
KCMA	CA	Camarillo	KPSP	CA	Palm Springs/Regional	KTOA	CA	Torrance/Municipal	KILG	DE	Wilmington/Airport
KNFG	CA	Camp Pendleton/MCAS	KPMD	CA	Palmdale/Air Force Plant 42	K306	CA	Treasure Island	KILG	DE	Wilmington/Airport
KSYL	CA	Camp Roberts				K96Q	CA	Trinidad Head/CGLS	KAAQ	FL	Apalachicola/Municipal
KCSL	CA	Camp San Luis/Airport	KPAO	CA	Palo Alto/Airport	KTRK	CA	Truckee-Tahoe	K90J	FL	Astor/NAS
KCZZ	CA	Campo/AWRS	KPRB	CA	Paso Robles/Municipal	KNTK	CA	Tustin/MCAS	KAGR	FL	Avon Park/Gunnery Range
KCRQ	CA	Carlsbad/Palomar	K93Q	CA	Pigeon Point/CGLS	KNXP	CA	Twentynine Palms	KBOW	FL	Bartow/Municipal
K54Q	CA	Castroville/Moss	....	CA	Pilar Point/AFS	KUKI	CA	Ukiah/Municipal	KKSC	FL	Become Stn 74794-6
KCIC	CA	Chico/Municipal	K53Q	CA	Pillar Point/El Granda	K045	CA	Vacaville/Nut Tree	KBKV	FL	Brooksville/Hernando
KNID	CA	China Lake/NAF	K89Q	CA	Point Arena/CGLS	KVCB	CA	Vacaville/Nut Tree	KX68	FL	Cape Kennedy
KCNO	CA	Chino/Airport	K91Q	CA	Point Blunt/CGLS	KVNY	CA	Van Nuys/Airport	KXMR	FL	Cape Kennedy/AFS
KCCR	CA	Concord/Buchanan	K94Q	CA	Point Bonita/CGLS	KVBG	CA	Vandenberg/AFB	KTTS	FL	Cape Kennedy/NASA
KCEC	CA	Crescent City	K072	CA	Point Cabrillo	KVBX	CA	Vandenberg/Orcutt Oil Field	....	FL	Cape San Blas
KNRC	CA	Crows Landing/NALF	KL13	CA	Point Loma/Cabrillo	KXVW	CA	Vandenberg/Range	K134	FL	Cape San Blas/CGS
K4CB	CA	Cuddleback/Gunnery Range	KNTD	CA	Point Mugu/NAWS	KP43	CA	Ventura Harbor	KNZC	FL	Cecil Field/NAS
KDAG	CA	Daggett/Barstow	K87Q	CA	Point Piedras Blancas/CG	KVCV	CA	Victorville/George AFB	KX53	FL	Cleaviston
K9L0	CA	Dana Point	K95Q	CA	Point Pinos/CGLS	KVIS	CA	Visalia/Municipal	KCOF	FL	Cocoa Beach/Patrick AFB
K52Q	CA	Davis Point/AWRS	K97Q	CA	Point Reyes/CGLS	KWV1	CA	Watsonville	KCEW	FL	Crestview/Bob Sikes
KEDW	CA	Edwards AFB	KNNZ	CA	Point Sur	K054	CA	Weaverville	KCTY	FL	Cross City
KEYX	CA	Edwards AFB/NEXRAD	KL97	CA	Point Vicente	K0L3	CA	Zuma Beach	KDAB	FL	Daytona Beach/Regional
KL98	CA	El Capitan Beach	K99Q	CA	Port Chicago	KAFF	CO	Air Force Academy	K81J	FL	Destin/Ft Walton Beach
KNJK	CA	El Centro/NAF	KPTV	CA	Porterville	KAKO	CO	Akron/Washington County	KDTS	FL	Destin/Ft Walton Beach
KEMT	CA	El Monte	KL39	CA	Ramona	KALS	CO	Alamosa/Municipal	KEGI	FL	Duke Fld/Eglin Auxiliary
KNZJ	CA	El Toro/MCAS	KL49	CA	Ramona	KASE	CO	Aspen/Sardy Field	KEVX	FL	Eglin AFB/NEXRAD
KEKA	CA	Eureka/Airport	KRIU	CA	Rancho Murieta	KBJC	CO	Broomfield/Jeffco	K2EG	FL	Eglin AFB/Range C52A
KBHX	CA	Eureka/Humboldt County	KRBL	CA	Red Bluff/Municipal	K5C0	CO	Burlington	....	FL	Eglin AFB/Rng C52A
K5U0	CA	Fairfield/Travis AFB	KRDD	CA	Redding/Municipal	KITR	CO	Burlington	KVPS	FL	Eglin AFB/Valparaiso
K50Q	CA	Farallon/Island	K98Q	CA	Rio Vista/CGLS	KCOS	CO	Colorado Springs	KX91	FL	Egmont Key/CGS
K064	CA	Fort Bragg	KRAL	CA	Riverside	KPEF	CO	Colorado Springs/Peterson AFB	KFXE	FL	Fort Lauderdale
KOAR	CA	Fort Ord/Fritzsche	KRIV	CA	Riverside/March AFB				KFLL	FL	Fort Lauderdale/Holly
KFOT	CA	Fortuna/FD Point	KRAL	CA	Riverside/Municipal	KCEZ	CO	Cortez/Montezuma County	KX89	FL	Fort Myers Beach/CGS
....	CA	Freshpond	KSMF	CA	Sacramento	KCAC	CO	Craig/Moffat	KFMY	FL	Fort Myers/Page Field
KFAT	CA	Fresno/Air Terminal	KSAC	CA	Sacramento/Executive	KFTG	CO	Denver/Boulder/NEXRAD/ %0347	KRSW	FL	Fort Myers/SW Florida Regional/
KFCH	CA	Fresno/Chandler	KMHR	CA	Sacramento/Mather Field				KX82	FL	Fort Pierce/CGS
			KMCC	CA	Sacramento/McClellan AFB	KBOU	CO	Denver/Boulder/NWSFO	KFPF	FL	Fort Pierce/St Lucie
KFUL	CA	Fullerton/Municipal	KSMF	CA	Sacramento/Metropolitan	KBKF	CO	Denver/Buckley ANGB	KX86	FL	Fowey Rocks/CGS
KGGB	CA	Golden Gate Bridge	KDAX	CA	Sacramento/NEXRAD/ %0536	KAPA	CO	Denver/Centennial	KGNV	FL	Gainesville/Regional
KS9F	CA	Hamilton/AAF				KDIA	CO	Denver/Intl (1996 onward)	KHWO	FL	Hollywood/North Perry
K018	CA	Hanford	KSTO	CA	Sacramento/NWSFO	KDNR	CO	Denver/Stapleton (Was DEN before 1996)	KHST	FL	Homestead/AFB
KHHR	CA	Hawthorne/Municipal	KSNS	CA	Salinas/Municipal	....	CO	Durango	KHRT	FL	Hurlburt/AFB
KHWD	CA	Hayward/Air Terminal	....	CA	Salton Sea/AFS	K4V5	CO	Durango/AWRS	KIMM	FL	Immokalee
K4L7	CA	Hermosa Beach Pier	K88Q	CA	Samoa/Humboldt Bay	KDRO	CO	Durango/La Plata County	KX84	FL	Islamorada/CGS
KHGT	CA	Hunter Liggett/Tusi	KSBD	CA	San Bernardino/Norton AFB	KEGE	CO	Eagle County/Regional	KCRG	FL	Jacksonville/Craig
K6L9	CA	Huntington Beach				KFCS	CO	Fort Carson/Butts	KJAX	FL	Jacksonville/Intl/%0383
K2H1	CA	Huntington Beach/Oil	KSQL	CA	San Carlos/Airport	KFNL	CO	Fort Collins	KNIP	FL	Jacksonville/NAS
KIPL	CA	Imperial	KL10	CA	San Clemente	KFCL	CO	Fort Collins/SAWR	KX80	FL	Jupiter Inlet/CGS
KNRS	CA	Imperial Beach/Ream	KNUC	CA	San Clemente	KGJX	CO	Grand Junction/Mesa/ %0368	KBYX	FL	Key West/Boca Chica/ NEXRAD/%0386
KIYK	CA	Inyokern	KSGX	CA	San Diego				KEYW	FL	Key West/Intl
KHGT	CA	Jolon	KSOX	CA	San Diego/%0574	KGJT	CO	Grand Junction/Walker Field/ASO	KNQX	FL	Key West/NAS
KPOC	CA	La Verne/Brackett	KSDM	CA	San Diego/Brown Field				KX81	FL	Lake Worth/Inlet
KWJF	CA	Lancaster/Fox Field	KSEE	CA	San Diego/Gillespie	KGXY	CO	Greeley/Weld	KLAL	FL	Lakeland/Regional
KNLC	CA	LeMoore NAS/Reeves	KSAN	CA	San Diego/Lindberg	KGUC	CO	Gunnison County	KLEE	FL	Leesburg
KLVC	CA	Livermore/Municipal	KNKX	CA	San Diego/Miramar/%0540	K2V9	CO	Gunnison/AWRS	KMTH	FL	Marathon/Airport
KLPC	CA	Lompoc	KMYF	CA	San Diego/Montgomery	KHDN	CO	Hayden/Yampa	KX88	FL	Marathon/CGS
K5L8	CA	Long Beach	KNZY	CA	San Diego/North Island/ NAS	KLHX	CO	La Junta/Municipal	KMAI	FL	Marianna
KLGB	CA	Long Beach				K4LJ	CO	Lamar/Municipal	KNRB	FL	Mayport/NS
KNWF	CA	Long Beach	KSFO	CA	San Francisco/Intl	KLAV	CO	Lamar/Municipal	KMLB	FL	Melbourne/Regional/%0302
KSLI	CA	Los Alamitos/AAF	KMTR	CA	San Francisco/Monterey/ NWSFO	KLIC	CO	Limon/Municipal	KX87	FL	Miami Beach/CGS
KLAX	CA	Los Angeles/Intl				K2V3	CO	Meeker	KMIA	FL	Miami/Intl
KLOX	CA	Los Angeles/NWSFO	K51Q	CA	San Francisco/PBS	KKEO	CO	Meeker	KTMB	FL	Miami/Kendall-Tamiami
KVTX	CA	Los Angeles/Ojai/ NEXRAD/%0396	KMUX	CA	San Francisco/Santa Clara/ %0541	KMTJ	CO	Montrose County/Airport	KAMX	FL	Miami/NEXRAD/%0728
KMAE	CA	Madera/Municipal	KHNX	CA	San Joaquin/Hanford/ NWSFO/%0363	KPUB	CO	Pueblo/Memorial/AWRS/ NWSFO	KMHC	FL	Miami/NHC
KL55	CA	Malibu Beach							KOPF	FL	Miami/Opa Locka
KMMH	CA	Mammoth/June Lakes	KSJC	CA	San Jose/Intl	KPUX	CO	Pueblo/NEXRAD/%0529	KMFL	FL	Miami/WFO
KKRI	CA	March AFB/NEXRAD	KRHV	CA	San Jose/Reid/Hillville	K1V1	CO	Rifle/AWRS	KNSE	FL	Milton
K2L6	CA	Marina Del Rey	KSBB	CA	San Luis Obispo	KRIL	CO	Rifle/Garfield Regional	KNFJ	FL	Milton/Choctaw
KMYV	CA	Marysville/Yuba County	KNSI	CA	San Nicolas Island	KS29	CO	Salida	KNZD	FL	Milton/Whiting
KMER	CA	Merced/Castle AFB	KSDB	CA	Sandberg	K0V2	CO	Salida/Alexander	KNSE	FL	Milton/Whiting
KMCE	CA	Merced/Macready Field	KSNA	CA	Santa Ana/John Wayne	KSPD	CO	Springfield	KAPF	FL	Naples/Municipal
KL58	CA	Mission Beach	KP44	CA	Santa Barbara/Harbor	KSBS	CO	Steamboat Springs	KRRF	FL	New Port Richie/Tampa Bay
KMOD	CA	Modesto City/Sham	KSBA	CA	Santa Barbara/Municipal	KTEX	CO	Telluride Regional			
KMHV	CA	Mojave	KL27	CA	Santa Catalina Island	KTAD	CO	Trinidad/Animas County	KX41	FL	New Port Richie/Tampa Bay
K105	CA	Montague	K85Q	CA	Santa Cruz/Harbor	KC96	CO	Winter Park/Resort	KOCF	FL	Ocala/Municipal
KSIY	CA	Montague/Siskiyou	KSZN	CA	Santa Cruz/Island	KBDR	CT	Bridgeport/Sikorski			
KMRV	CA	Monterey Peninsula	KSMX	CA	Santa Maria/Public						

KORL	FL	Orlando/Hemdon	KHKP	HI	Kaanapali;Maui	KSPW	IA	Spencer	KMDN	IN	Jefferson/Proving Ground
KMCO	FL	Orlando/Jetport	....	HI	Kaena Point;Oahu	KSBL	IA	Storm Lake	KOKK	IN	Kokomo
KPFN	FL	Panama City/Bay County	KOGG	HI	Kahului;Maui	KAWG	IA	Washington	KLAF	IN	Lafayette/Purdue
KPAM	FL	Panama City/Tyndall AFB	PHOG	HI	Kahului;Maui	KALO	IA	Waterloo/Municipal			University/ASO
KNPA	FL	Pensacola/NAS	....	HI	Kailua;Maui	KEBS	IA	Webster City	KMZZ	IN	Marion/Municipal
KPNS	FL	Pensacola/Regional	PHLU	HI	Kalaupapa	KCBX	ID	Boise/Ada County/%0322	K18C	IN	Michigan City/CGS
K4QJ	FL	Perry/Foley	KMUE	HI	Kamuela/Waimea-Kohala	KBOI	ID	Boise/Municipal	KMIE	IN	Muncie/Johnson Field
KNAE	FL	Pinecastle			Arpt	KBYI	ID	Burley/Municipal	KWX	IN	North Webster/NWSFO
KPMP	FL	Pompano Beach	PHMU	HI	Kamuela/Waimea-Kohala	KEUL	ID	Caldwell	KGUS	IN	Peru/Grisson AFB
K1J3	FL	Ponce De Leon Inlet			Arpt	KU35	ID	Caldwell	KSLO	IN	Salem-Leckrone
KRRF	FL	Port Richey	KHKI	HI	Kamuela;Kauai/NEXRAD	KLLJ	ID	Challis	K3SM	IN	Shelbyville
KPGD	FL	Punta Gorda/Charlotte	PHKM	HI	Kamuela;Kauai/NEXRAD	KU15	ID	Challis	KGEZ	IN	Shelbyville
KPIE	FL	Saint Petersburg	PHNG	HI	Kaneohe MCAS;Oahu	KCOE	ID	Coeur D'Alene	KSNB	IN	South Bend/St. Joe
KSPG	FL	Saint Petersburg	KKOA	HI	Keahole/Kailua/Kona	KP69	ID	Elk City/Lowell	KHUF	IN	Terre Haute/Hulman
KSFB	FL	Sanford/Orlando	PHKO	HI	Keahole/Kailua/Kona	KGNK	ID	Gooding/Municipal	KVPZ	IN	Valparaiso/Porter Co
K1J5	FL	Santa Rosa/CGS	....	HI	Keawakapu Beach/Mau	KS80	ID	Grangeville	K3NU	KS	Chanute/Martin John
KSRQ	FL	Sarasota/Bradenton	PHBK	HI	Kekaha	KSUN	ID	Hailey/Friedman Memorial	KCFV	KS	Coffeyville
KSGJ	FL	St Augustine	K0Z5	HI	Kilauea Pt/Lighthouse	KIDA	ID	Idaho Falls/Fanning	KCNK	KS	Concordia
KPIE	FL	St Petersburg	KHKM	HI	Kohala/NEXRAD	KJER	ID	Jerome/County	KDDC	KS	Dodge City/NWSFO/
KSPG	FL	St Petersburg/Whitted	....	HI	Kokee;Kauai	KU73	ID	Jerome/County			%0350
KTLH	FL	Tallahassee/NEXRAD/	K1Z4	HI	Koloa (CGS)	KLWS	ID	Lewiston	K1K5	KS	Elkhart
		%0551	KKOA	HI	Kona/Kailua	KMLD	ID	Malad City	KEHA	KS	Elkhart
KTAE	FL	Tallahassee/WFO	PHKO	HI	Kona/Kailua	K77M	ID	Malta	KEMP	KS	Emporia/Municipal
KTPA	FL	Tampa/Intl	....	HI	Kula Expmnt Str/Mau	KMYL	ID	Mc Call	KFLV	KS	Fort Leavenworth
KMCF	FL	Tampa/MacDill AFB	KJHM	HI	Lahaina;Maui	KMUO	ID	Mountain Home/AFB	KFRJ	KS	Fort Riley/Marshall AAF
KTBW	FL	Tampa/Ruskin/%0552	PHJH	HI	Lahaina;Maui	KMLP	ID	Mullan Pass	KGCK	KS	Garden City/Municipal
KTIX	FL	Titusville	KLNY	HI	Lanai City/Airport	KS06	ID	Mullan/AWRS	KGLD	KS	Goodland/Renner/%0366
KX90	FL	Venice/LORAN	PHNY	HI	Lanai City/Airport	KPIH	ID	Pocatello/Municipal	KGBD	KS	Great Bend
KVRB	FL	Vero Beach/Municipal	KLIH	HI	Lihue/Airport;Kauai	KSEF	ID	Pocatello/Springfield/	KHYS	KS	Hays/Municipal
KPBI	FL	West Palm Beach	PHLI	HI	Lihue/Airport;Kauai			%0546	KHLC	KS	Hill City/Municipal
KNSE	FL	Whiting Field/NAS	....	HI	Lualualei;Oahu	KU11	ID	Rexburg	KHUT	KS	Hutchinson/Municipal
KGIF	FL	Winter Haven	....	HI	Makaha Ridge;Kauai	K27U	ID	Salmon	KLWC	KS	Lawrence
KABY	GA	Albany/Municipal	....	HI	Makahouena Point;Kauai	KSMN	ID	Salmon/Lemhi	KLBL	KS	Liberal/Municipal
KAMG	GA	Alma/Bacon County	....	HI	Makiki/Manoa/Oahu	....	ID	Saylor Creek/Range	KMHK	KS	Manhattan/Municipal
KAHN	GA	Athens/Municipal	PMDY	HI	Midway Island/NAF	KU78	ID	Soda Springs/Tigert	KP28	KS	Medicine Lodge AMOS
KPDK	GA	Atlanta/De Kalb	KMKK	HI	Molokai	KS14	ID	Spencer	KEWK	KS	Newton
KFTY	GA	Atlanta/Fulton County	PHMK	HI	Molokai	KSNT	ID	Stanley/Ranger Station	KIXD	KS	Olathe/Johnson County
KATL	GA	Atlanta/Intl	KHMO	HI	Molokai/NEXRAD	K4SV	ID	Strevell	K0JC	KS	Olathe/Johnson County
K2A9	GA	Atlanta/Peachtree	PHMO	HI	Molokai/NEXRAD	KTWF	ID	Twin Falls/Joslin	KPPF	KS	Parsons/Tri City
KFFC	GA	Atlanta/Peachtree/%0316	KSOU	HI	South Kauai/NEXRAD	KALN	IL	Alton/St Louis Regional	KPTT	KS	Pratt/Municipal
KALR	GA	Atlanta/Southeast RFC	PHKI	HI	South Kauai/NEXRAD	KARR	IL	Aurora/Municipal	KRSL	KS	Russell/Municipal
KAGS	GA	Augusta/Bush Field	K1Z2	HI	Upolu Point/CGS	KBLV	IL	Belleville/Scott AFB	KS LN	KS	Salina/Municipal
KDNL	GA	Augusta/Daniel Field	PHUP	HI	Upolu Point/CGS	KBMI	IL	Bloomington/Normal	....	KS	Smokey Hill Range
KBQK	GA	Brunswick/Glynco	....	HI	Waialeale/Oahu Island	KBDF	IL	Bradford/Rinkenber	KTWX	KS	Topeka/Alma/%0554
KSSI	GA	Brunswick/Malcolm	....	HI	Waialua Reservoir	KPCS	IL	Cahokia/St. Louis	KTOP	KS	Topeka/Billard Municipal
K6A0	GA	Cartersville	....	HI	Waimanalo Beach	KMDH	IL	Carbondale/Murphysboro	KFOE	KS	Topeka/Forbes Field
KVPC	GA	Cartersville	PHHI	HI	Wheeler AFB/Oahu	KCMI	IL	Champaign/Urbana	K3KM	KS	Wichita/Col Jabara
KVPC	GA	Cartersville	KAXA	IA	Algona	KARR	IL	Chicago/Aurora	KIAB	KS	Wichita/McConnell AFB
KLSF	GA	Columbus/Fort Benning	KAMW	IA	Ames	K63G	IL	Chicago/Calumet CGS	KICT	KS	Wichita/Municipal/%0562
KCSG	GA	Columbus/Metro	KIKV	IA	Ankeny	KDPA	IL	Chicago/Du Page	KWLD	KS	Winfield/Strother
KDNN	GA	Dalton	KAJO	IA	Atlantic	KDUK	IL	Chicago/Dunne Crib	KBWG	KY	Bowling Green
....	GA	Fort Stewart/Reservation	KADU	IA	Audubon	KDPA	IL	Chicago/Dupage	KCVG	KY	Covington/Cincinnati
KGVL	GA	Gainesville/Gilmer	KBNW	IA	Boone/Municipal	KNBU	IL	Chicago/Glenview NAS	KHOP	KY	Fort Campbell/AAF
KLHW	GA	Hinesville/Ft Stewart/	KBRL	IA	Burlington/Municipal	KLOT	IL	Chicago/Joliet/NWSFO/	KHPX	KY	Fort Campbell/US 41 N
		Wright	KCIN	IA	Carroll			%0337	KFTK	KY	Fort Knox/Godman
KNBQ	GA	Kings Bay	KCID	IA	Cedar Rapids/Municipal	KCGX	IL	Chicago/Meigs	KLVX	KY	Fort Knox/NEXRAD/%0397
KMCN	GA	Macon/Lewis Wilson	KCNC	IA	Chariton	KMDW	IL	Chicago/Midway	KFFT	KY	Frankfort/Capital City
KMGE	GA	Marietta/Dobbins AFB	KCCY	IA	Charles City	KORD	IL	Chicago/O'Hare Intl	KKXR	KY	Fr Campbell/WSR-88D
KMGR	GA	Moultrie/Thomasville	KICL	IA	Clarinda	KPWK	IL	Chicago/Pal-Waukegan	KEHR	KY	Henderson City
KCCO	GA	Newnan	KCAV	IA	Clarion	KUGN	IL	Chicago/Waukegan	K126	KY	Henderson City
K7A9	GA	Plains/Peterson Field	KCWI	IA	Clinton/Municipal	KCHI	IL	Chicago/WSFO	KJKL	KY	Jackson/Noctor/%0373
KKWR	GA	Robins AFB/NEXRAD	KCBF	IA	Council Bluffs	KDNV	IL	Danville/Vermilion	KLEX	KY	Lexington/Bluegrass
KRMG	GA	Rome/Russell	KCSQ	IA	Creston	KDEC	IL	Decatur/Airport	KLSD	KY	Lexington/Creech
K1J1	GA	Saint Simon Island/CGS	KDEH	IA	Decorah	KC73	IL	Dixon/Walgreen Field	KLOZ	KY	London/Corbin/Airport
KSVN	GA	Savannah/Hunter AAF	KDNS	IA	Denison	KGBG	IL	Galesburg/Municipal	KLOU	KY	Louisville/Bowman
KSAV	GA	Savannah/Municipal	KDSM	IA	Des Moines/Intl	KJOT	IL	Joliet/Park District	KLMK	KY	Louisville/NWSFO
K1J2	GA	Tybee/CGS	KDMX	IA	Des Moines/Johnston/	KLWV	IL	Lawrenceville	KSDF	KY	Louisville/Standiford
KVAD	GA	Valdosta/Moody AFB			%0348	KILX	IL	Lincoln/Logan County/	KLMK	KY	Louisville/WFO
KVAX	GA	Valdosta/Moody AFB/GA	KDBQ	IA	Dubuque/Municipal			%0549	KOWB	KY	Owensboro/Daviess
		Rd 129	KEST	IA	Estherville/Municipal	KMWA	IL	Marion/Regional	KPAH	KY	Paducah/Barkley/NWSFO/
KVLD	GA	Valdosta/Regional	KFFL	IA	Fairfield	KMMO	IL	Marseilles			%0521
KWRB	GA	Warner-Robins/AFB	KFOD	IA	Fort Dodge	KMTO	IL	Mattoon/Coles County	K513	KY	Pikeville
KJGX	GA	Warner-Robins/AFB/GA	KFSW	IA	Fort Madison	KMLI	IL	Moline/Quad City	K5ME	KY	Somerset
		Hwy 96	KIOW	IA	Iowa City	KMVN	IL	Mount Vernon	KAEX	LA	Alexandria/England AFB
KAYS	GA	Waycross/Ware County	KEOK	IA	Keokuk/Municipal	KPIA	IL	Peoria/Regional	KESF	LA	Alexandria/Esler
PHNA	HI	Barbers Point NAS;Oahu	KOXV	IA	Knoxville	KUIN	IL	Quincy Municipal/Baldwin	K7R3	LA	Amelia/Lake Palour
KBKH	HI	Barking Sands;Kauai	K0Y7	IA	Lamoni	KRAN	IL	Rantoul	KBTR	LA	Baton Rouge/Ryan
PHBK	HI	Barking Sands;Kauai	K3OI	IA	Lamoni	KRFD	IL	Rockford	KBVE	LA	Boothville
PHSF	HI	Bradshaw AAF/Hawaii	KLWD	IA	Lamoni	KSPI	IL	Springfield/Capital	KBCG	LA	Butte La Rose
K1Z6	HI	French Frigate Shls	KLRJ	IA	Le Mars	KSQI	IL	Sterling Rockfalls	K8R6	LA	Calcasieu/CGS
....	HI	Haina/Hawaii Island	KMIW	IA	Marshalltown	KVLA	IL	Vandalia/Municipal	K7R5	LA	Cameron/Heliport
KHNM	HI	Hana Arpt/Mau	KMCW	IA	Mason City/Municipal	K6ZG	IL	Wilmette/Marines	K3CW	LA	Chenault Airpark
PHHN	HI	Hana Arpt/Mau	KMXO	IA	Monticello/Municipal	KAID	IN	Anderson/Municipal	K01R	LA	Claiborne Range/AFS
....	HI	Hanapepe/Kauai Island	KMUT	IA	Muscataine	KBMG	IN	Bloomington/Monroe	KVUW	LA	Eugene Island
KHWA	HI	Hawaii/South/NEXRAD	KTNU	IA	Newton/Municipal	KBAK	IN	Columbus/Balkalar	K41I	LA	Eugene Island/B266C
PHWA	HI	Hawaii/South/NEXRAD	KOLZ	IA	Oelwein	KEKM	IN	Elkhart/Municipal	KPOE	LA	Fort Polk
PHIK	HI	Hickam AFB/Oahu	KORC	IA	Orange City	KEVV	IN	Evansville/Regional	K9F2	LA	Fourchon/SAWRS
KITO	HI	Hilo	KOTM	IA	Ottumwa/Industrial	KFWA	IN	Fort Wayne/Baer Field	K7R1	LA	Golden Tri
PHTO	HI	Hilo	KDVN	IA	Quad Cities/Davenport/	KGYV	IN	Gary/Regional	KP26	LA	Grand Isle/B95
PHZH	HI	Honolulu/ARTCC			%0530	KGSH	IN	Goshen/Municipal	K8R5	LA	Grand Isle/CGS
KHNL	HI	Honolulu/Intl;Oahu	KRDK	IA	Red Oak	KHNB	IN	Huntingburg	KAXO	LA	Grand Isle/SAWRS
PHNL	HI	Honolulu/Intl;Oahu	KSHL	IA	Sheldon	KEYE	IN	Indianapolis/Eagle Creek	K28K	LA	Grncyn Blk52/SAWRS
KHON	HI	Honolulu/NWSFO	KSDA	IA	Shenandoah/Municipal	K114	IN	Indianapolis/Eagle Creek	K01T	LA	High Island
KPAC	HI	Honolulu/RHQ	KSUX	IA	Sioux City/Municipal	KIND	IN	Indianapolis/Intl/NWSFO/	KL40	LA	High Island/A489B
KHFO	HI	Honolulu/WFO	K3SE	IA	Spencer			%0381	KH39	LA	High Island/A572C

KHUM	LA	Houma/Terrebonne	CWGX	MB	Gillam	K94B	ME	Wood Island/LS	KBJI	MN	Bemidji
K7R4	LA	Intracoastal City	CYGM	MB	Gillam/Airport	KADG	MI	Adrian	KBBB	MN	Benson/Municipal
KLFT	LA	Lafayette/Regional	CYGM	MB	Gimli	KAMN	MI	Alma	KFOZ	MN	Bigfork
KLCH	LA	Lake Charles/NWSFO/ %0391	CWGO	MB	Gimli/Industrial	KAPN	MI	Alpena/County Regional	KBRD	MN	Brainerd/Wieland
K7R2	LA	Leeville	CWJD	MB	Grand Rapids	KARB	MI	Ann Arbor/Municipal	KCBG	MN	Cambridge/Municipal
KORN	LA	Lower Mississippi/RFC	CWGN	MB	Gretna	K76D	MI	Bad Axe/Memorial	KXCR	MN	Camp Ripley/Miller
KP21	LA	Main Pass/B68	CYIV	MB	Island Lake/Airport	K41G	MI	Bath	KCOQ	MN	Cloquet
K1G7	LA	Mississippi Canyon	CYLL	MB	Lynn Lake/Airport	KBTL	MI	Battle Creek/Kellogg	KCQM	MN	Cook
KMLU	LA	Monroe/Regional	CWEI	MB	Melita	KACB	MI	Bellaire/Antrim County	K8Y8	MN	Crane Lake
KARA	LA	New Iberia/Acadiana	CYNE	MB	Norway House/Airport	K31G	MI	Belle Isle/CGS	KCDD	MN	Crane Lake
KNEW	LA	New Orleans/Lakefront	CWPO	MB	Pilot Mound	KBEH	MI	Benton Harbor/Ross	KCKN	MN	Crookston/Municipal
KORN	LA	New Orleans/Lower Mississippi	CWEA	MB	Pinawa	KCAD	MI	Cadillac/Wexford County	KDTL	MN	Detroit Lakes/AWOS
KMSY	LA	New Orleans/Moisant Intl	CYPG	MB	Portage La Prairie	KY09	MI	Charlevoix/CGS	K87D	MN	Dodge Center
KNBG	LA	New Orleans/NAS	CWWG	MB	Prairie/Weather Center	KCIU	MI	Chippewa/Intl	KTOB	MN	Dodge Center
KPTN	LA	Patterson/Memorial	CWLO	MB	Shilo	KOEB	MI	Coldwater	K30Y	MN	Duluth Harbor/CGS
K02R	LA	Peason Ridge/Range	CWUT	MB	Shoal Lake/Airport	KC01	MI	Coopersville/Airport	KDLH	MN	Duluth/Intl/NWSFO/%0352
KP92	LA	Salt Point	CWSU	MB	Sprague	KP59	MI	Copper Harbor	KD36	MN	Duluth/Sky Harbor
K565	LA	Ship Shoal/198G	CWEQ	MB	Swan River	KDET	MI	Detroit/City Airport	KDVT	MN	Duluth/Sky Harbor
KGSM	LA	Ship Shoal/207	CYQD	MB	The Pas/Airport	KDTW	MI	Detroit/Metropolitan	KELO	MN	Ely/Municipal
K502	LA	Ship Shoal/B224A	CYTH	MB	Thompson/Airport	KDTP	MI	Detroit/White Lake/%0349	KEVM	MN	Eveleth/Municipal
K19R	LA	Ship Shoal/Platform	CWII	MB	Victoria Beach	KYIP	MI	Detroit/Willow Run	KFRM	MN	Fairmont/Municipal
KBAD	LA	Shreveport/Barksdale AFB	CWVJ	MB	Vivian	K31Y	MI	Eagle Harbor/CGLS	KFBL	MN	Fairbault/Municipal
KDTN	LA	Shreveport/Downtown	CWWP	MB	Wasagamung	KESC	MI	Escanaba	KFFM	MN	Fergus Falls
KSHV	LA	Shreveport/Regional/ %0543	CYWG	MB	Winnipeg/Intl	KFNT	MI	Flint/Bishop Intl	KFGN	MN	Flag Island
KSIL	LA	Slidell	....	MD	Aberdeen Proving Ground	K14C	MI	Frankfort/CGS	KFSE	MN	Fosston
K6R0	LA	Slidell/Municipal	KAPG	MD	Aberdeen/Phillips AAF	KGLR	MI	Gaylord	KGYL	MN	Glencoe
KLIX	LA	Slidell/NWSFO/%0545	KNAK	MD	Annapolis	KAPX	MI	Gaylord/WFO/%0312	KY29	MN	Glencoe
K7R8	LA	South Marsh Island	K61W	MD	Annapolis/CGS	KAPX	MI	Gaylord/WFO/%0312	K53D	MN	Glenwood
K558	LA	South Timbalier/300	KBWI	MD	Baltimore/Intl	K27Y	MI	Grand Marais/CGS	KGHV	MN	Glenwood
K8R3	LA	Southwest Pass/CGS	KMTN	MD	Baltimore/Martin	KGRR	MI	Grand Rapids/Intl/NWSFO/ %0369	KCKC	MN	Grand Marais
KP00	LA	Tenneco Platform	KDMH	MD	Baltimore/Science Center	K3RN	MI	Graying AF Range	KGRM	MN	Grand Marais/Municipal
K3V8	LA	Venice Heliport	KLWX	MD	Baltimore/Sterling/%0303	K2G5	MI	Grosse Ile	KGPZ	MN	Grand Rapids
KP25	LA	Vermilion/B215	K66W	MD	Cove Point/CGLS	KONZ	MI	Grosse Ile	K03Y	MN	Hallock
KVRX	LA	Vermillion/Area	KESN	MD	Easton/Newman	KCMX	MI	Hancock/Memorial	KHCO	MN	Hallock
KP30	LA	West Cameron	KFME	MD	Ford Meade/Tipton	KJYM	MI	Hillsdale	KHCD	MN	Hibbing-Chisholm
KW76	LA	West Cameron/B522	K43M	MD	Fort Ritchie/Site	KBIV	MI	Holland/Tulip City	KINL	MN	Hutchinson
KP22	LS	Vermilion/B131	KJWX	MD	Fort Ritchie/Site	KC19	MI	Holland/Tulip City	KMJQ	MN	International Falls
KBED	MA	Bedford/Hanscom Field	KHGR	MD	Hagerstown/Regional	KHTL	MI	Houghton Lake/Airport	K43F	MN	Jackson/Municipal
KBVY	MA	Beverly/Municipal	K0W4	MD	Kentmorr Marina	K3HE	MI	Howell	KLJF	MN	Litchfield/Municipal
K29B	MA	Boston/Hull/CGLS	KW30	MD	Ocean City/CGLS	KOZW	MI	Howell	KLXL	MN	Litchfield/Municipal
KBOS	MA	Boston/Logan/Intl	KN80	MD	Ocean City/Municipal	KIMT	MI	Iron Mountain/Kingsford	KD33	MN	Little Falls
KTAR	MA	Boston/Northeast/RFC	KNHK	MD	Patuxent River/NAS	KIWD	MI	Ironwood	KXVG	MN	Longville
KTAN	MA	Boston/Taunton	KSBY	MD	Salisbury/Regional	KJXN	MI	Jackson/Reynolds	KMKT	MN	Longville
KBOX	MA	Boston/Taunton/%0323	KNUI	MD	St Inigoes/Webster F	KSAV	MI	Kalamazoo/Intl Arpt	KMMG	MN	Mankato
KTAW	MA	Boston/Taunton/WFO	K67W	MD	Stillpond/CGS	KAZO	MI	Kalamazoo/Intl Arpt	KY33	MN	Maple Lake
K45B	MA	Brant Point/CGS	KADW	MD	Suitland/Andrews AFB	KLAN	MI	Lansing/Capital	KMML	MN	Maple Lake
K33B	MA	Buzzards Bay/CGSL	K65W	MD	Thomas Point/CGS	K17C	MI	Ludington/CGS	KMPX	MN	Marshall/Ryan
K0B6	MA	Chatham	KEMI	MD	Westminster/FD Point	KMCD	MI	Mackinac Island	KMIC	MN	Minneapolis/Chanhausen/ %0506
KCHH	MA	Chatham	KLEW	ME	Auburn-Lewiston	KY84	MI	Mackinac Island	KFCM	MN	Minneapolis/Crystal
KCQX	MA	Chatham	KAUG	ME	Augusta State/Airport	KMBL	MI	Manistee/AWOS	KMSP	MN	Minneapolis/Flying Cloud
K31B	MA	Chatham/CGS	KBGR	ME	Bangor/Intl	KISQ	MI	Manistique	KMVE	MN	Minneapolis/Intl
KCEF	MA	Chicopee/Westover	KBHB	ME	Bar Harbor	KMQT	MI	Marquette/Airport/%0399	K19D	MN	Montevideo
KFIT	MA	Fitchburg	KNHZ	ME	Bear Island/CGS	K34Y	MI	Marquette/CGLS	KJMR	MN	Mora/Municipal
KAYE	MA	Fort Devens/Ayer	K27B	ME	Brunswick/NAS	KRMV	MI	Marquette/CGLS	KJMR	MN	Mora/Municipal
K32B	MA	Gay Head/CGS	KCAR	ME	Cape Neddick/CGLS	K09G	MI	Marshall	KMOX	MN	Morris/Municipal
KCQX	MA	Gay Head/CGS	K40B	ME	Caribou/Municipal	KTEW	MI	Mason	KULM	MN	Morris/Municipal
K34B	MA	Gloucester/CGS	KEPM	ME	Clayton Lake	KMMN	MI	Menominee	KORB	MN	New Ulm/Municipal
KHYA	MA	Hyannis/Barnstable	KEPO	ME	Eastport	KTTF	MI	Menominee	KVVV	MN	Orr
KLWM	MA	Lawrence/Municipal	K8B9	ME	Eastport	KMKG	MI	Monroe	KOWA	MN	Ortonville
K3B2	MA	Marshfield/Airport	KFVE	ME	Egg Rock/LS	K19C	MI	Muskegon	KPKD	MN	Owatonna
KMVY	MA	Marthas Vineyard	KB20	ME	Frenchville	KERY	MI	Muskegon/CGS	KP39	MN	Park Rapids/Municipal
K35B	MA	Merrimack River/CGS	KIZG	ME	Fryeburg	K28Y	MI	Newberry	KPWC	MN	Pequot Lake
KMQE	MA	Milton/Blue Hill Observatory	K0B9	ME	Fryeburg	KECK	MI	North Manitou Shoal	KPQN	MN	Pine River
KACK	MA	Nantucket/Memorial	K14B	ME	Goat Island	KPLN	MI	Peck/FD Point	KPNM	MN	Pipestone
KEWB	MA	New Bedford	K3B1	ME	Great Duck Island/CGLS	KPTK	MI	Pellston/Emmet County	KRKG	MN	Princeton
K2B6	MA	North Adams	KGNR	ME	Greenville	KP58	MI	Pontiac/Oakland	KRWF	MN	Red Wing
KAQW	MA	North Adams	K15B	ME	Greenville	K33G	MI	Port Hope/Harbor Beach	KRST	MN	Redwood Falls/Municipal
KOWD	MA	Norwood/Memorial	K16B	ME	Halfway Rock/CGLS	K32Y	MI	Port Huron/CGS	KROX	MN	Rochester/Municipal
KORE	MA	Orange	KHUL	ME	Heron Neck/CGLS	KPZQ	MI	Portage/CGS	K54Y	MN	Roseau/Municipal
KFMH	MA	Otis/ANGB	KCBW	ME	Houlton/Intl	K36Y	MI	Presque Isle/Rogers	KROS	MN	Rush City
KPSF	MA	Pittsfield/Municipal	KLIZ	ME	Houlton/NEXRAD/%0329	K30G	MI	Pt Betsie/Frankfort	KSTC	MN	Rush City
KPYM	MA	Plymouth/Municipal	KMLT	ME	Limestone/Loring AFB	KMB5	MI	Saginaw River/CGS	KSTP	MN	Saint Cloud/Whitney
KPVC	MA	Provincetown	K18B	ME	Millinocket/Municipal	K38Y	MI	Saginaw/Tri City	KD97	MN	Saint Paul/Downtown
K36B	MA	Race Point/CGS	KOLD	ME	Monhegan/Manana Isl	K20C	MI	Saint Ignace	KSGS	MN	Saint Paul/South
K30B	MA	Sandwich/CGS	K96B	ME	Old Town/Dewitt Field	KY62	MI	Saint Joseph/CGS	KBFW	MN	Saint Paul/South
K37B	MA	Scituate/CGS	KPWM	ME	Owl's Head/LS	K44Y	MI	Sault Ste Marie	KD40	MN	Silver Bay
KNZW	MA	South Weymouth/NAS	K12B	ME	Portland	KSSM	MI	Sault Ste Marie/CGS	KSAZ	MN	St. James
KBAF	MA	Westfield	KGYX	ME	Portland Head/CGLS	KMTC	MI	Sault Ste Marie/FD Point	KTVF	MN	Staples
KBAF	MA	Westfield/Barnes	KGYX	ME	Portland/Gray/%0528	KP75	MI	Selfridge/ANGB	KP61	MN	Thief River
KORH	MA	Worcester	K37B	ME	Portland/Gray/%0528	KP35	MI	Seul Choix Pt	K62Y	MN	Tofte
CWRE	MB	Arnes	KNZW	ME	Portland/Intl Jetport	KPHN	MI	Spickard	KTWM	MN	Two Harbors
CWBL	MB	Bachelors Island	KBAF	MA	Portland/LGT-VSL	K41Y	MI	St Clair Shores	KD45	MN	Two Harbors
CYBV	MB	Berens River/Airport	KORH	MA	Portland/NWSFO	KIRS	MI	St Clair Shores/CGS	KRAD	MN	Waad
CYBR	MB	Brandon/Airport	CWRE	MB	Presque Isle	K39Y	MI	Sturgis/Kirsch Municipal	KRRT	MN	Warroad
CWCM	MB	Carberry	CWBL	MB	Rockland/CGS	K40Y	MI	Tawas Point/CGS	KETH	MN	Warroad
CWDW	MB	Dauphin	CYBV	MB	Rockland/Knox	KTVC	MI	Thunder Bay Island	KILL	MN	Wheaton/NDB
CYDN	MB	Dauphin/Airport	CYBR	MB	Rumford	KOSC	MI	Traverse City/Cherry	KMWM	MN	Willmar/Rice
CWSZ	MB	Fisher Branch	CWCM	MB	Sanford/Municipal	KLVN	MN	Wurtsmith AFB	KONA	MN	Windom
CWFO	MB	Flin Flon	CWDW	MB	Seguin Island/CGLS	KY12	MN	Airlake	KOTG	MN	Winona/Municipal
CYFO	MB	Flin Flon/Airport	CYDN	MB	Southwest Harbor	KAIT	MN	Airlake	KCGI	MO	Worthington
CWWS	MB	George Island	CWSZ	MB	Waterville	KAEL	MN	Aitkin/NDB	KCDJ	MO	Cape Girardeau/Municipal
			CWFO	MB	West Jonesport/CGS	KAXN	MN	Albert Lea	KCOU	MO	Chillicothe/Litton Sci Ctr
			CYFO	MB	West Quoddy Head/CGLS	KAXN	MN	Alexandria/Chandler	KFAM	MO	Columbia/Regional
			CWWS	MB	Wiscasset	KAUM	MN	Austin/Municipal	KTBN	MO	Farmington/Airport
					Wiscasset	KBDE	MN	Baudette/Intl			Fort Leonard Wood

KGWV	MO	Grandview/Richards-Gebaur	CYCL	NB	Charlo/Airport	KGFK	ND	Grand Forks/Intl	CYAY	NF	Saint Anthony/Airport
KJEF	MO	Jefferson City/Memorial	CWCQ	NB	Chatham	KHEI	ND	Hettinger	CYYT	NF	Saint John's/Airport
KJLN	MO	Joplin/Regional	CYCH	NB	Chatham/Military	KJMS	ND	Jamestown/Municipal	CWDS	NF	Saint Lawrence
KAIZ	MO	Kaiser/Memorial	CYYQ	NB	Churchill/Airport	KP67	ND	Lidgerwood	CYKL	NF	Schefferville/Airport
KMCI	MO	Kansas City/Intl	CYFC	NB	Fredericton/Airport	KMBI	ND	Minot/AFB	CWQJ	NF	Sedco 710
KKRF	MO	Kansas City/Missouri RFC	CYCX	NB	Gagetown/CFB	KMBX	ND	Minot/AFB/McHenry County	CWFL	NF	St Shotts
KMKC	MO	Kansas City/Municipal	....	NB	Gannet Rock/Lighthouse	KMOT	ND	Minot/Intl	CWHT	NF	Star Brook
KEAX	MO	Kansas City/Pleasant Hill/ %0385	CYQM	NB	Moncton/Airport	KP24	ND	Roseglenn	CYJT	NF	Stephenville/Airport
			CWPE	NB	Point Lepreau	KISN	ND	Williston/Sloulin	CWTU	NF	Tukialik Bay
KIRK	MO	Kirksville/Regional	CWPJ	NB	Pt Escuminac	KANW	NE	Ainsworth/Municipal	CWDO	NF	Twillingate
KSZL	MO	Knob Noster/Whiteman AFB	CYSJ	NB	Saint John/Airport	KAIA	NE	Alliance/Municipal	CYWK	NF	Wabush Lake/Airport
			CYSL	NB	Saint Leonard/Airport	KAUH	NE	Aurora	KBML	NH	Berlin/Municipal
			CWIY	NB	St Leonard	KBIE	NE	Beatrice/Municipal	KCON	NH	Concord/Municipal
KUMN	MO	Monett	CWIY	NB	St Leonard	KOFF	NE	Bellevue/Offutt AFB	K1B5	NH	Franconia
KPOF	MO	Poplar Bluff	CWSS	NB	St Stephen	KBBW	NE	Broken Bow/Municipal	K26B	NH	Isle Of Shoals/CGS
KP02	MO	Poplar Bluff/AMOS	KASJ	NC	Ahoskie	KBUB	NE	Burwell/Cram Field	KAFN	NH	Jaffrey/Municipal
KVIH	MO	Rolla/Vichy Airport	K6A3	NC	Andrews	KCDR	NE	Chadron/Municipal	KEEN	NH	Keene/Dillant
KDMO	MO	Sedalia	KW44	NC	Asheboro	KOLU	NE	Columbus/Municipal	KLCI	NH	Laconia/Municipal
KSGF	MO	Springfield/NWSFO/ %0548	KAVL	NC	Asheville/Municipal	KCZD	NE	Cozad Municipal	KLEB	NH	Lebanon/Municipal
K3SZ	MO	St Charles	KNLT	NC	Atlantic	KFNB	NE	Falls City/Brenner	KMHT	NH	Manchester/Airpark
KASZ	MO	St Charles	KMRH	NC	Beaufort/Smith Field	KFET	NE	Fremont	KMWN	NH	Mount Washington
KSET	MO	St Charles	KBUY	NC	Burlington	KGRN	NE	Gordon/Municipal	KASH	NH	Nashua/Boire Field
KSTJ	MO	St Joseph/Rosecrans	KHAT	NC	Cape Hatteras	KGRI	NE	Grand Island	K12B	NH	New Castles/CGLS
KSTL	MO	St Louis/Lambert	K77W	NC	Cape Lookout/CGS	KGID	NE	Grand Island/Hastings/ NWSFO	KPSM	NH	Pease AFB/Portsmouth
KSUS	MO	St Louis/Spirit Of St Louis	KIGX	NC	Chapel Hill/Williams				K26B	NH	Portsmouth Harbor
KLSX	MO	St Louis/St Charles/ %0308	KW52	NC	Chapel Hill/Williams	KHSI	NE	Hastings/Municipal	K6B1	NH	Rochester/Skyhaven
KSTL	MO	St Louis	KCLT	NC	Charlotte/Douglas	KHUX	NE	Hastings/Webster County	KDAW	NH	Rochester/Skyhaven
....	MO	West Plains	KNIS	NC	Cherry Point	KHDE	NE	Holdrege/Brewster/Airport	KHIE	NH	Whitefield/Mount Washington
KUNO	MO	West Plains	KNKT	NC	Cherry Point/MCAS	KIML	NE	Imperial/Municipal	K8B8	NH	Wolfeboro/Lakes Regional
KBIX	MS	Biloxi/Keesler AFB	K2DP	NC	Dare County/Gunnery Range	KEAR	NE	Kearney/Municipal	K12N	NJ	Andover
KCBX	MS	Columbus NEXRAD				KLXN	NE	Lexington	K55N	NJ	Atlantic City/CGS
KCBM	MS	Columbus/AFB	K44W	NC	Diamond Shoals/CGS	KLNK	NE	Lincoln/Municipal	KACY	NJ	Atlantic City/Intl
KGTR	MS	Golden Triangle	KEDE	NC	Edenton	KMCK	NE	McCook/Municipal	KN78	NJ	Barneget/CGS
KGLH	MS	Greenville/Municipal	KECG	NC	Elizabeth City/CGS	KMHN	NE	Mullen/Hooker County	KBML	NJ	Belmar-Farmdale
KGWO	MS	Greenwood/Leflore	K37W	NC	Erwin	KOKF	NE	Norfolk/Stefan Field	KCDW	NJ	Caldwell/Essex County
KGPT	MS	Gulfport-Biloxi	KFAY	NC	Fayetteville/Regional	KOVN	NE	North Omaha	KN91	NJ	Cape May/CGS
KHBG	MS	Hattiesburg/Municipal	KFBG	NC	Fort Bragg/Simmons	KLBF	NE	North Platte/Lee Bird/ NWSFO/ASO	KNEL	NJ	Lakehurst/NAS
KHKS	MS	Jackson/Hawkins	K6WV	NC	Frying Pan Shoals				KN07	NJ	Lincoln Park
KJAN	MS	Jackson/Thompson/ %0382	K0A6	NC	Gastonia	KOGA	NE	Ogallala	K54N	NJ	Manasquan/CGS
KLUL	MS	Laurel/Noble Field	KAKH	NC	Gastonia	KOMA	NE	Omaha/Eppley Field	KMIV	NJ	Millville/Municipal
KLMS	MS	Louisville/Winston	KGSB	NC	Goldsboro/Seymour-Johnson AFB	KOAX	NE	Omaha/Valley/ %0519	KMMU	NJ	Morristown/Municipal
KMCB	MS	McComb/Lewis Field				KMDX	NE	Omaha/Valley/NWSFO	K7MY	NJ	Mount Holly/South Jersey
KNJW	MS	Meridian	KGSO	NC	Greensboro/Piedmont	KONL	NE	O'Neill/Baker Field	KVAY	NJ	Mount Holly/South Jersey
KMEI	MS	Meridian/Key Field	KPGV	NC	Greenville/Pitt	KODX	NE	Ord/Sharp Field	KEWR	NJ	Newark/Intl
KNMNM	MS	Meridian/NAS McCain	KHSE	NC	Hatteras	KBFF	NE	Scottsbluff/Heilig	KN87	NJ	Robbinsville/Trenton
KHEZ	MS	Natchez/Hardy	K8W5	NC	Hatteras/Mitchell	KSNY	NE	Sidney/Municipal	K56N	NJ	Sandy Hook/CGS
KUOX	MS	Oxford University	KHSE	NC	Hatteras/Mitchell	KTQE	NE	Tekamah	KN52	NJ	Somerville/Somerset
KPGL	MS	Pascagoula/Jackson	KHKY	NC	Hickory/Regional	KLNX	NE	Thedford/ %0517	KSJB	NJ	Somerville/Somerset
KM50	MS	Pascagoula/Lott	KHFF	NC	Hoffman/Mackall AAF	KVTN	NE	Valentine	KFWN	NJ	Sussex
KPQL	MS	Pascagoula/Lott	KHSS	NC	Hot Springs/AWRS	CWXX	NF	Alexis River	KN63	NJ	Sussex
KPCU	MS	Picayune/Pearl River	KOAJ	NC	Jacksonville	CWAI	NF	Argentina	KTEB	NJ	Teterboro/Airport
KPIB	MS	Pine Belt/Regional	KNCA	NC	Jacksonville/New River	CWDI	NF	Badger	KTTN	NJ	Trenton/Mercer County
KTUP	MS	Tupelo/C.D. Lemons	KGEV	NC	Jefferson	CYBX	NF	Blanc Sablon/Airport	K52N	NJ	Wildwood
KTVR	MS	Vicksburg	KDPL	NC	Kenansville	CWVA	NF	Bonavista	KWWD	NJ	Wildwood
KVKS	MS	Vicksburg/Municipal	KISO	NC	Kinston/Stallings	CWTB	NF	Border	KWRI	NJ	Wrightstown/McGuire AFB
K3U6	MT	Baker/Municipal	KLBT	NC	Lumberton	CWEJ	NF	Bow Drill III	KHMN	NM	Alamogordo/Holloman AFB
KBHK	MT	Baker/Municipal	KMQI	NC	Manteo/Dare Co Regional	CWXJ	NF	Bull Arm	KHDX	NM	Alamogordo/Holloman AFB/NEXRAD
KBIL	MT	Billings/Logan Intl	KMEB	NC	Maxton/Laurinbur	CWBD	NF	Burgeo	KALM	NM	Alamogordo/White
KBYZ	MT	Billings/WFO	KEQY	NC	Monroe	CWBF	NF	Burgeo	KZAB	NM	Albuquerque/ARTCC
KBLX	MT	Billings/Yellowstone/ %0318	KMHX	NC	Morehead City/Newport/ %0375	CWYK	NF	Cape Kakkiviak	KABQ	NM	Albuquerque/Intl
KBZN	MT	Bozeman/Gallatin				CWRA	NF	Cape Race	KIKR	NM	Albuquerque/Kirtland AFB
K4BQ	MT	Broadus	KEWN	NC	New Bern/Craven County	CWCA	NF	Cartwright	KABX	NM	Albuquerque/NEXRAD/ %0311
KBTM	MT	Butte/Bert Mooney	KNCA	NC	New River/MCAS	CYCA	NF	Cartwright	KATS	NM	Artesia
KCTB	MT	Cut Bank	K45W	NC	Oracoke/CGS	CZDI	NF	Churchill Falls	....	NM	Aztec
KDLN	MT	Dillon/Airport	K79W	NC	Oregon Inlet/CGS	CZUM	NF	Churchill Falls	KNCM	NM	Carlsbad/Cavern City
K3DU	MT	Drummond	KNBT	NC	Piney Island	CWHW	NF	Comfort Cove	KE33	NM	Chama
KGWV	MT	Glasgow/Intl/NWSFO/ %0365	KPGV	NC	Pitt-Greenville	CWFF	NF	Conne River	KCAO	NM	Clayton/Municipal
			KPOB	NC	Pope AFB	CWDH	NF	Daniel's Harbour	KCQC	NM	Clines Corner
KGDV	MT	Glendive	KRAX	NC	Raleigh/Clayton/ %0531	CYDF	NF	Deer Lake/Airport	KP70	NM	Clines Corner
KGTF	MT	Great Falls/Intl/NWSFO	KRDU	NC	Raleigh/Durham	CWDA	NF	Englee	KCVS	NM	Clovis/Cannon AFB
KGFA	MT	Great Falls/Malmstrom AFB	KRAH	NC	Raleigh/WFO	CYQX	NF	Gander/Intl	KCVN	NM	Clovis/Municipal
			KRZZ	NC	Roanoke Rapids/Halifax	CYYR	NF	Goose Bay/Airport	KFDX	NM	Clovis/NM Hwy 89/ %0328
KTFX	MT	Great Falls/Upper Air Site	KRWI	NC	Rocky Mount/Wilson	CWVW	NF	Grates Cove	K4CR	NM	Corona/Lincoln
KHMM	MT	Hamilton/Ravalli Co	KFQD	NC	Rutherfordton	CWTP	NF	Holyrood	K4SL	NM	Cuba/Torreon
K3HT	MT	Harlowton	K78W	NC	South Port/Oak Island CGS	CWHO	NF	Hopedale	KDMN	NM	Deming/Municipal
KHVR	MT	Havre	KSOP	NC	Southern Pines	CWJP	NF	Kelligrews	KFMN	NM	Farmington/Regional
KHLN	MT	Helena/Regional	KSVH	NC	Statesville	CWVW	NF	Killinek	KGUP	NM	Gallup/Clarke
KJDN	MT	Jordan	K3WA	NC	Swansboro/Bogue	CWAG	NF	La Scie	KGNT	NM	Grants-Milan/Municipal
KFCA	MT	Kalispell/Glacier	KNJM	NC	Swansboro/Bogue Field/ MCALF	CWFU	NF	Little Macatina	KHOB	NM	Hobbs/Lea County
KLDS	MT	Leeds				CYFT	NF	Makkovik/Airport	KLRU	NM	Las Cruces/Intl
KLWT	MT	Lewistown/Municipal	KLTX	NC	Wilmington/Shallotte/ %0563	CWMH	NF	Mary's Harbour	KLVS	NM	Las Vegas/Municipal
KLVN	MT	Livingston/Mission	KILM	NC	Wilmington/WFO	CYMH	NF	Mary's Harbour	KLAM	NM	Los Alamos
KMLS	MT	Miles City	KINT	NC	Winston-Salem/Smith	CWFP	NF	Nain	K4MR	NM	Melrose/Gunnery Range
KMSO	MT	Missoula/Bell Field	K1W9	NC	Wrightsville Beach	CYDP	NF	Nain/Airport	K4MY	NM	Moriarty
KMSX	MT	Missoula/Missoula County/ %0508	KBIS	ND	Bismarck/Municipal/ %0321	CWYI	NF	Pools Island	KRTN	NM	Raton/Crews Field
KMQM	MT	Monida	KDVL	ND	Devils Lake	CWOF	NF	Port Basques	KROW	NM	Roswell/Industrial
KRED	MT	Red Lodge	KP11	ND	Devils Lake	CWBY	NF	Port Menier	KSRR	NM	Ruidoso/Regional
KSDY	MT	Sidney-Richland	KDIK	ND	Dickinson/Municipal	CWST	NF	Saglek	KSAF	NM	Santa Fe/Municipal
K3TH	MT	Thompson Falls	KFAR	ND	Fargo/Hector Field	CYSV	NF	Saglek/Airport	KSCV	NM	Silver City/Grant
KWEY	MT	West Yellowstone	KMVX	ND	Fargo/Mayville	CWZZ	NF	Saglek/Bay	KONM	NM	Socorro/Municipal
KWYS	MT	West Yellowstone	KMYG	ND	Fargo/Mayville/NWSFO	CWZN	NF	Sagona Island	....	NM	Stallion/AAF
KOLF	MT	Wolf Point/Intl	KFGF	ND	Fargo/WFO	CWAX	NF	Saint Anthony	KE23	NM	Taos/AWRS
CWXS	NB	Bas Caraquet	KN60	ND	Garrison						
CZBF	NB	Bathurst/Airport	KRDR	ND	Grand Forks/AFB						

KSKX	NM	Taos/Municipal	CWQY	NT	Hanbury River	KRNO	NV	Reno/Cannon Intl	....	OH	Cleveland/Lighthouse
KTCS	NM	Truth Or Consequences	CWIL	NT	Hat Island	KRGX	NV	Reno/Washoe County/ %0533	K2I4	OH	Columbus/Bolton Field
KTCC	NM	Tucumcari/Municipal	CYHY	NT	Hay River/Airport				KTZR	OH	Columbus/Bolton Field
....	NM	White Sands	CYHI	NT	Holman Island/Airport	KTPH	NV	Tonopah/Airport	KOSU	OH	Columbus/Ohio State
KE28	NM	White Sands	CYGT	NT	Igloolik/Airport	KTNX	NV	Tonopah/Test Range	KCMH	OH	Columbus/Port Columbus Intl
	NM	White Sands/Northrup Landing Strip	CWIE	NT	Indian River	K9BB	NV	Wells			
K2C2	NM	White Sands/Test Range	CWBJ	NT	Inner Whalebacks	KAWH	NV	Wildhorse/Reservoir	KMGY	OH	Dayton
KZUN	NM	Zuni/Pueblo	CYEV	NT	Inuvik/Airport	KWMC	NV	Winnemucca/Municipal	KDAY	OH	Dayton/James M Cox Municipal
CWAH	NS	Amherst	CWIC	NT	Isachsen	KWMC	NV	Winnemucca/Municipal			
CWCP	NS	Baccaro Point	CYUQ	NT	Jenny Lind Island/Airport	KUCC	NV	Yucca Flats/DOE Test Site	KFFO	OH	Dayton/Wright-Patterson AFB
CWWY	NS	Barrington	CYAJ	NT	Komakuk Beach/Airport	KALB	NY	Albany County/Airport	KDFI	OH	Defiance
CWBV	NS	Beaver Island	CWMT	NT	Lac La Martre	KENX	NY	Albany/East Berne/%0310	KFDY	OH	Findlay
CWVU	NS	Brier Island	CYUJ	NT	Lady Franklin Point	KALY	NY	Albany/NWSFO	KHAO	OH	Hamilton
CWBK	NS	Caribou Point	CYLC	NT	Lake Harbour/Airport	KN28	NY	Ambrose/Ft Tilden	KI15	OH	Lancaster
CYID	NS	Digby/Airport	CWLK	NT	Little Chicago	K45N	NY	Bay Shore/Fire Island	KLHQ	OH	Lancaster
CWRW	NS	Fourchu Head	CWLI	NT	Liverpool Bay	KBGM	NY	Binghamton/WFO/%0319	KAOH	OH	Lima
CWZQ	NS	Grand Etang	CWLX	NT	Longstaff Bluff	KN84	NY	Bronx/Execution/CGS	K27G	OH	Lorain/CGS
CYZX	NS	Greenwood/CFB	CYUV	NT	Longstaff Bluff/Airport	KGQV	NY	Buffalo/Batavia/NWSFO	K22G	OH	Lorain/Elyria/Regional
CYHZ	NS	Halifax/Intl	CWIJ	NT	Lupin	K19G	NY	Buffalo/CGS	KLPR	OH	Lorain/Elyria/Regional
....	NS	Halifax/METOC	CYWO	NT	Lupin/Airport	KBUF	NY	Buffalo/Cheektowaga/Intl/ %0325	KOOG	OH	Lorain/Elyria/Regional
CWRN	NS	Hart Island	CWUU	NT	Mackay Inlet	KCTO	NY	Calverton/Grumman	KMFD	OH	Mansfield/Lahm Municipal
CWBX	NS	Maritimes Weather Centre	CWCN	NT	Malloch Dome	K95B	NY	Cape Vincent	K21G	OH	Marblehead/CGS
CYPD	NS	Port Hawkesbury	CYEM	NT	Mould Bay/Airport	KDSV	NY	Dansville/Municipal	KMNN	OH	Marion
CWJO	NS	Rowan Gorilla/III	CWMD	NT	Mould Bay/Camp	KDKK	NY	Dunkirk/Chautauqu	KPHD	OH	New Philadelphia
CWOL	NS	Sable Island	CWNG	NT	Mount Arthur	K49N	NY	East Moriches/CGS	K2I8	OH	Newark
CWSA	NS	Sable Island	CYSR	NT	Nanisivik/Airport	KHTO	NY	Easthampton	KVTA	OH	Newark
CYSA	NS	Sable Island/Airport	CWRP	NT	Nicholson Peninsula	K34N	NY	Eatons Neck/CGS	KOSU	OH	Ohio State University/ Columbus
CWAW	NS	Shearwater/Jetty	CWNI	NT	Nipterik Base	KELM	NY	Elmira/Corning Regional			
CYAW	NS	Shearwater/Military	CYVQ	NT	Norman Wells/Airport	KFRG	NY	Farmingdale/Republic	KUNI	OH	Ohio University/Athen- Albany
....	NS	Shelburne	CWXP	NT	Pangnirtung	KGTB	NY	Fort Drum/Wheeler	K29G	OH	Ravenna/Portage County
CWEF	NS	St Paul Island	CZPK	NT	Paulatuk	KFZY	NY	Fulton/Oswego County	KLCK	OH	Rickenbacker/ANGB
CYQY	NS	Sydney/Airport	CYPC	NT	Paulatuk/Airport	KN00	NY	Fulton/Oswego County	KSLW	OH	Smithville/Wooster
CWUR	NS	Truro	CWKE	NT	Pelly Bay	KGFL	NY	Glens Falls/Warren	KSBI	OH	South Bass Island
CWVE	NS	Valleyfield	CWRF	NT	Pelly Bay/1	KISP	NY	Islip/MacArthur	KSGH	OH	Springfield/Municipal
CWWE	NS	Western Head	CYBB	NT	Pelly Bay/Airport	KITH	NY	Ithaca/Tompkins County	KTOL	OH	Toledo Express
CYQI	NS	Yarmouth/Airport	CWND	NT	Pelly Island	KJHW	NY	Jamestown	K24G	OH	Toledo/CGS
CYKD	NT	Aklavik/Airport	CYIO	NT	Pond Inlet/Airport	KMSS	NY	Massena/Richards	KTDZ	OH	Toledo/Metcalf Field
CWLT	NT	Alert	CWJP	NT	Porter Lake	K44N	NY	Millbrook/Sky Acres	KLNN	OH	Willoughby
CYLT	NT	Alert/Airport	CWMP	NT	Powder Lake	K48N	NY	Montauk Point/CGLS	KBJJ	OH	Wooster/Wayne County
CYEK	NT	Arviat/Airport	CWQF	NT	Rabbit Kettle	KMTP	NY	Montauk Point/CGLS	KYNG	OH	Youngstown/Municipal
CWVX	NT	Back River	CWYH	NT	Rae Lakes	KMGJ	NY	Montgomery/Orange County	KZZV	OH	Zanesville/Municipal
CYBK	NT	Baker Lake/Airport	CWMU	NT	Rampart River				KLTS	OK	Altus/AFB
CWHS	NT	Bernard Harbour	CYRT	NT	Rankin Inlet/Airport	KMSV	NY	Monticello	K1F0	OK	Ardmore/Executive
CWQN	NT	Black Top Ridge	CYUT	NT	Repulse Bay/Airport	KJFK	NY	New York/Kennedy Intl	KADM	OK	Ardmore/Municipal
CWOB	NT	Brevort Island	CYRB	NT	Resolute/Airport	KLGA	NY	New York/La Guardia	KTUA	OK	Arkansas River/RFC
CWVX	NT	Brevort Island	CWRH	NT	Resolution Island	KOKX	NY	New York/Upton/ Brookhaven	KBVO	OK	Bartlesville
CWVD	NT	Broughton Island	CWTD	NT	Robertson Lake				KCSM	OK	Clinton-Sherman
CYVM	NT	Broughton Island/Airport	CWRX	NT	Rowley Island	KNYC	NY	New York/WFO	KEND	OK	Enid/Vance AFB
CWBR	NT	Brown Lake	CWSY	NT	Sachs Harbour	KSFW	NY	Newburgh/Stewart	KVNX	OK	Enid/Vance AFB/Kegelman
CYBK	NT	Byron Bay/Airport	CYSY	NT	Sachs Harbour/Airport	KIAG	NY	Niagara Falls/Intl	KWDG	OK	Enid/Woodring Municipal
CYCB	NT	Cambridge Bay/Airport	CYSK	NT	Sanikiluaq/Airport	K13G	NY	Niagara/CGS	K8FR	OK	Falcon Range
CWOA	NT	Camsell River	CWNO	NT	Satah River	KOGS	NY	Ogdensburg/Intl	KFSI	OK	Fort Sill
CYTE	NT	Cape Dorset/Airport	CYUS	NT	Shepherd Bay/Airport	KOLE	NY	Olean/Municipal	KFDR	OK	Frederick
CWFD	NT	Cape Dyer/Airport	CWJE	NT	Skull Point	KN66	NY	Oneonta/Municipal	KGAG	OK	Gage/Shattuck
CYVN	NT	Cape Dyer/Airport	CYHH	NT	Spence Bay/Airport	K28G	NY	Oswego/CGS	KGOK	OK	Guthrie
CWUD	NT	Cape Hooper	CWYV	NT	St Charles Creek	KN22	NY	Penn Yan	KGUY	OK	Guymon
CWUP	NT	Cape Hooper	CWTE	NT	Trout Lake	KPEO	NY	Penn Yan	KF10	OK	Henryetta/Municipal
CWYM	NT	Cape Mercy	CWTW	NT	Tuktoyaktuk	KPBG	NY	Plattsburgh/AFB	KHBR	OK	Hobart/Municipal
CZUE	NT	Cape Parry/Airport	CZUB	NT	Tuktoyaktuk	KPLB	NY	Plattsburgh/Clinton	KH92	OK	Hominy/Municipal
CWXP	NT	Cape Peel West	CYUB	NT	Tuktoyaktuk/Airport	KPOU	NY	Poughkeepsie	KLAW	OK	Lawton/Municipal
CYUI	NT	Cape Young/Airport	CWZV	NT	Virginia Falls	K26G	NY	Rochester/CGLS	KMLC	OK	McAlester/Regional
CYCS	NT	Chesterfield Inlet	CYXN	NT	Whale Cove/Airport	KROC	NY	Rochester/Monroe County	KMKO	OK	Muskogee/Davis Field
CWKK	NT	Clinton Point	CWKU	NT	Whiskey	K50N	NY	Rockaway/CGS	KOUN	OK	Norman/Westheimer
CWXC	NT	Clut Lake	CYWY	NT	Wrigley/Airport	KRME	NY	Rome/Griffiss AFB	KOKC	OK	Oklahoma City
CYCY	NT	Clyde River/Airport	CWPT	NT	Yankee	KRMX	NY	Rome/Griffiss AFB/ NY26&Borwick	KTIK	OK	Oklahoma City/Tinker AFB
CWFX	NT	Colville Lake	CWJY	NT	Yathkyed Lake				KTIX	OK	Oklahoma City/Twin Lakes/%0001
CYCO	NT	Coppermine/Airport	CYZF	NT	Yellowknife/Airport	KSLK	NY	Saranac Lake/Adirondack	KPWA	OK	Oklahoma City/Wiley Post
CYZS	NT	Coral Harbour/Airport	K9U3	NV	Austin	KSCH	NY	Schenectady Airport	KPGO	OK	Page Mountain
CWXR	NT	Croker River	KU31	NV	Austin	KHWV	NY	Shirley/Brookhaven	KPNC	OK	Ponca City/Municipal
CWUW	NT	Dewar Lakes	KB23	NV	Battle Mountain	K51N	NY	Short Beach/CGS	KSWO	OK	Stillwater/Municipal
CWJZ	NT	Dubawnt Lake	KBAM	NV	Battle Mountain/FD Point	KSYR	NY	Syracuse/Hancock	KF30	OK	Sulphur/Municipal
CWEV	NT	Ellice River	KP38	NV	Caliente	KUCA	NY	Utica/Oneida County	KINX	OK	Tulsa/Inola/%0557
CWJC	NT	Ennadai Lake	KEKO	NV	Elko	....	NY	Verona/AF	KTUL	OK	Tulsa/Intl
CWEU	NT	Eureka	KEKO	NV	Elko	KART	NY	Watertown/Intl	KRV5	OK	Tulsa/Lloyd Jones
CYEU	NT	Eureka	KLRX	NV	Elko/Lander County/ NEXRAD	KELZ	NY	Wellsville	KTSA	OK	Tulsa/NWSFO
CYWJ	NT	Fort Franklin/Airport	KLKN	NV	Elko/NWSFO	KFOK	NY	Westhampton Beach	KWWR	OK	West Woodward
CYGH	NT	Fort Good Hope/Airport	KELY	NV	Ely/Yelland Fld	KQWS	NY	Wheeler-Sack/AAF	CYWW	ON	Armstrong
CWJL	NT	Fort Liard	KP68	NV	Eureka	KHPN	NY	White Plains	CYYW	ON	Armstrong
CYJF	NT	Fort Liard/Airport	KNFL	NV	Fallon/NAS	KAKR	OH	Akron	CWCH	ON	Atikokan
CZFM	NT	Fort McPherson/Airport	KQAV	NV	Fallon/NAS	KCAK	OH	Akron-Canton/Regional	CWRK	ON	Bancroft
CZFN	NT	Fort Norman/Airport	KHTH	NV	Hawthorne/Municipal	K7G2	OH	Ashtabula	....	ON	Barrage Angliers
CWID	NT	Fort Providence	KINS	NV	Indian Springs/Gunnery Range	KSHI	OH	Ashtabula	CWCU	ON	Barrie
CWFL	NT	Fort Reliance				K20G	OH	Ashtabula/CGS	CWPB	ON	Beausoliel Island
CWFZ	NT	Fort Reliance	KL63	NV	Indian Springs/Range 63	KLUK	OH	Cincinnati/Lunken	CWDD	ON	Belle River
CYFR	NT	Fort Resolution	KLAS	NV	Las Vegas/McCarran Intl	KTIR	OH	Cincinnati/Ohio RFC	CWTL	ON	Big Trout
CYFS	NT	Fort Simpson/Airport	KLSV	NV	Las Vegas/Nellis AFB	KILN	OH	Cincinnati/Wilmington/ %0338	CYTL	ON	Big Trout Lake
CYSM	NT	Fort Smith/Airport	KESX	NV	Las Vegas/Nelson/ NEXRAD/%0566	KILN	OH	Cincinnati/Wilmington/ %0338	CYBN	ON	Borden
CYFB	NT	Frobisher/Iqaluit	KVEF	NV	Las Vegas/WFO	KBKL	OH	Cleveland/Burke Lakefront	CWBI	ON	Britt
CYHK	NT	Gjoa Haven/Airport	KL0L	NV	Lovelock/Derby Field	KCGF	OH	Cleveland/Cuyahoga	CWWB	ON	Burlington Piers
CYUR	NT	Gladman Point/Airport	KDRA	NV	Mercury/Desert Rock	K23G	OH	Cleveland/Harbor CGS	CWCI	ON	Caribou Island
CWWM	NT	Grant	KOWY	NV	Owyhee	KCLE	OH	Cleveland/Hopkins/ NWSFO/%0340	CWGV	ON	Carp
CWGZ	NT	Grise Fiord/Airport	KQ63	NV	Pyramid Lake				CYLD	ON	Chapleau/Airport
CWNW	NT	Haldane River	KREV	NV	Reno						
CYUX	NT	Hall Beach/Airport									

CWNC	ON	Cobourg	KHRI	OR	Hermiston	KCTP	PA	State College/NWSFO	CYHA	PQ	Quaqtaq/Airport
CWCO	ON	Collingwood	KS22	OR	Hermiston	KCCX	PA	State College/Rush/	CYQB	PQ	Quebec/Airport
CWWX	ON	Cove Island	KSOO	OR	Hermiston			NEXRAD/%0374	CWUL	PQ	Quebec/Forecast Office
CYDR	ON	Dryden	K4S2	OR	Hood Canal Bridge	KAFJ	PA	Washington	CWNH	PQ	Riviere Du Loup
CYHD	ON	Dryden/Airport	K5J0	OR	John Day/State Airport	KAVP	PA	Wilkes-Barre/Scranton	CYRJ	PQ	Roberval/Airport
CYXR	ON	Earlton/Airport	KIMB	OR	Kimberly/FD Point	KIPT	PA	Williamsport	CWQG	PQ	Roquemare
CWET	ON	Egbert	KLMT	OR	Klamath Falls/Kings	KNXX	PA	Willow Grove/NAS	CWUY	PQ	Rouyn
CYEL	ON	Elliot Lake/SAWR	KLGD	OR	La Grande	KTHV	PA	York/Thomasville	CYUY	PQ	Rouyn/Airport
CWAJ	ON	Erieau	K4LW	OR	Lakeview	CWYG	PE	Charlottetown	CYZG	PQ	Salluit/Airport
CWSO	ON	Exeter	KLKV	OR	Lakeview	CYYG	PE	Charlottetown/Arpt	CYZV	PQ	Sept-Iles/Airport
CYGO	ON	Geraldton/Airport	KMMV	OR	McMinnville	CWEP	PE	East Point	CYSC	PQ	Sherbrooke/Airport
CWGD	ON	Goderich	KMEH	OR	Meacham	CWNE	PE	North Point	CWJT	PQ	St-Jovite
CYZE	ON	Gore Bay/Airport	KMFR	OR	Medford/Jackson County	CWSD	PE	Summerside	CWBZ	PQ	St-Anicet
CWNL	ON	Great Duck Island	KMAX	OR	Medford/Jackson County/	CYSU	PE	Summerside/Military	CWIT	PQ	St Clothilde
CWGH	ON	Grenadier Island			NEXRAD	CYKO	PQ	Akulivik/Airport	CWLH	PQ	St Lambert
CYHM	ON	Hamilton/Airport	KJNW	OR	Newport	CYLA	PQ	Apaluk	CWOH	PQ	Ste Agathe Des Mont
CYU	ON	Kapusking/Airport	KONP	OR	Newport/Municipal	CYBG	PQ	Bagotville/Military	CWVQ	PQ	Ste Anne De Bell
CWKK	ON	Katatota Island	KOTH	OR	North Bend	CWFW	PQ	Baie Comeau	CYTQ	PQ	Tasiujaq
CYQK	ON	Kenora/Airport	KPTR	OR	Northwest/RFC	CYBC	PQ	Baie Comeau/Airport	CWRQ	PQ	Trois Rivières
CWBE	ON	Killarney	KONO	OR	Ontario/Municipal	CWHV	PQ	Beauceville	CWTY	PQ	Trois Rivières
CWKR	ON	King	KPFC	OR	Pacific City State	CWKD	PQ	Bonnard	CYMU	PQ	Umiuq
CYKG	ON	Kingston Airport	KPDT	OR	Pendleton/Municipal/	CWSG	PQ	Cap Chat	CYVO	PQ	Val D'Or/Airport
CWGL	ON	Lagoon City			NWSFO/%0522	CWRZ	PQ	Cap D'Espoir	CWQG	PQ	Valcartier
CWLF	ON	Lansdowne House	KHIO	OR	Portland/Hillsboro	CWSF	PQ	Cap Madeleine	CYOY	PQ	Valcartier/Airport
CYXU	ON	London/Airport	KPDJ	OR	Portland/Intl	CWQM	PQ	Cap Rouge	CWHM	PQ	Varennes
CWPS	ON	Long Point	KPTR	OR	Portland/Northwest RFC	CWTN	PQ	Cap Tourmente	CWVY	PQ	Villeroy
CWBT	ON	Longue Pointe De Mongue	K1S4	OR	Portland/Scappoose	CWQW	PQ	Cape Whittle	CYKQ	PQ	Waskaganish/Airport
CWGJ	ON	Montreal River	KRTX	OR	Portland/Scappoose Hill/	CWEE	PQ	Chamouchouane	TJNR	PR	Roosevelt Roads
CYMO	ON	Moosonee			%0527	CYML	PQ	Charlevoix/Murray Bay/	KJAE	PR	San Juan/Cayey
CWZC	ON	Moosonee/SAWR	KTTD	OR	Portland/Troutdale			Airport	KJSU	PR	San Juan/Marin
CWLS	ON	Mount Forest	KPQR	OR	Portland/WFO	CWDM	PQ	Chevery	KWSR	PR	San Juan/WFO
CYQA	ON	Muskoka/Airport	KRDM	OR	Redmond	CYMT	PQ	Chibougamau-Chapais	KBID	RI	Block Island
CWNZ	ON	Nagagami	KP88	OR	Rome	CWDT	PQ	Chute Des Passes	K67B	RI	Castle Hill/CGS
CYYB	ON	North Bay/Airport	KREO	OR	Rome	CWCS	PQ	Cote-Ste-Cath	K2B4	RI	Newport
CWLQ	ON	North Bay/Nipissing	KRBG	OR	Roseburg/Municipal	CZEM	PQ	Eastmain River/Airport	KUUU	RI	Newport
CZNB	ON	North Bay/Readac	KSLE	OR	Salem/McNary	CWXI	PQ	Ferolle Point	KOQU	RI	North Kingston/Quonset
CWYB	ON	North Bay/Weather Office	K1S4	OR	Scappoose	CWFQ	PQ	Frelighsburg	KSFZ	RI	Pawtucket
CWDF	ON	Oliphant	KSPB	OR	Scappoose	CYGP	PQ	Gaspe/Airport	KPJI	RI	Point Judith/CGS
CWYZ	ON	Ontario Weather Center	KSXT	OR	Sexton Summit	CYND	PQ	Gatineau/Airport	KPVD	RI	Providence/Green
CYOW	ON	Ottawa/Intl	K8S5	OR	Siuslaw River/CGS	CYGV	PQ	Havre Saint Pierre	KWST	RI	Westerly
CWWN	ON	Peawanuck	KS21	OR	Sunriver	CWHP	PQ	Heath Point	CWVC	SA	Swift Current
CYWA	ON	Petawawa/Airport	KDLS	OR	The Dalles/Municipal	CWQR	PQ	Ice Aux Perroquets	KAND	SC	Anderson/County Airport
CYPQ	ON	Peterborough/Airport	KS47	OR	Tillamook	CWQO	PQ	Ile Bicquette	KNBC	SC	Beaufort/MCAS
CWPL	ON	Pickle Lake	K88S	OR	Tillamook Bay/CGS	CWER	PQ	Ile D'Orleans	KIGC	SC	Charleston/AFB
CYPL	ON	Pickle Lake	K90S	OR	Umpqua River/CGS	CWAF	PQ	Ile Rouge	KCLX	SC	Charleston/Grays/%0333
CWQP	ON	Point Petre	K9S5	OR	Yaquina Bay/CGS	CWGR	PQ	Iles-De-La-Madelein	KCHS	SC	Charleston/Municipal
CWPC	ON	Port Colborne	KABE	PA	Allentown-Bethlehem	CYGR	PQ	Iles De La Madelein	KNEX	SC	Charleston/Nise
CWWZ	ON	Port Weller	KAOO	PA	Altoona/Blair County	CWPH	PQ	Inukjuak	KCEU	SC	Clemson
CWCJ	ON	Pukaskwa Park	KBVI	PA	Beaver Falls/Airport	CYPH	PQ	Inukjuak	KCUB	SC	Columbia
CWDJ	ON	Red Lake	KBFD	PA	Bradford/Regional	CYIK	PQ	Ivujivik/Airport	KCAE	SC	Columbia/NWSFO/%0341
CYRL	ON	Red Lake/Airport	KBTP	PA	Butler County	CWJO	PQ	Jonquiere	KFLO	SC	Florence/Regional
CWTX	ON	Royal Island	K4ON	PA	Chester County/Airport	CYKB	PQ	Kangiqsualujuaq	K84J	SC	Folly Beach/LORAN
CYZR	ON	Sarnia/Airport	KFIG	PA	Clearfield	CYLU	PQ	Kangiqsualujuaq	K85J	SC	Georgetown/CGLS
CYAM	ON	Sault Ste Marie	KN97	PA	Clearfield	CYKG	PQ	Kangiqsujuaq	KGMU	SC	Greenville
CWSI	ON	Simcoe	KN25	PA	Downington/Shannon	CYAS	PQ	Kangirsuk	KGMU	SC	Greenville/Downtown
CYXL	ON	Sioux Lookout/Airport	KDYL	PA	Doylestown	CYVP	PQ	Kuujuaq/Airport	KGSP	SC	Greenville-Spartanburg/
CWNB	ON	Southeast Shoal	KN88	PA	Doylestown	CYGD	PQ	Kuujuarapik/Airport			%0555
CYSN	ON	St Catharines/Airport	KDUJ	PA	Du Bois	CYAD	PQ	La Grande III	KGRD	SC	Greenwood
CYSB	ON	Sudbury/Airport	K25G	PA	Erie/CGS	CYAH	PQ	La Grande IV/Airport	K49J	SC	Hilton Head
CYTJ	ON	Terrace Bay/SAWR	KERI	PA	Erie/Intl	CZAG	PQ	La Grande IV/Readac	KHXD	SC	Hilton Head
CYQT	ON	Thunder Bay/Airport	KFKL	PA	Franklin	CYGL	PQ	La Grande Riviere	KMNI	SC	Manning/Cooper Regional
CYTS	ON	Timmins/Airport	KMDT	PA	Harrisburg	CWST	PQ	La Pocatiere	KMMT	SC	McEntire/ANG Base
CWQE	ON	Toronto Headlands	KCCY	PA	Harrisburg/Capital	CWDQ	PQ	La Tuque	KMYR	SC	Myrtle Beach/Civilian
CWTZ	ON	Toronto Island	KHAR	PA	Harrisburg/VORTAC	CWEO	PQ	Lac Eon	KCRE	SC	North Myrtle Beach
CYTZ	ON	Toronto Island/Airport	KIDI	PA	Indiana/Stewart Fld	CWIZ	PQ	L'Acadie	KOGB	SC	Orangeburg
CWTO	ON	Toronto/AES HQ	KMUI	PA	Indianatown/Muir AAF	CWEW	PQ	L'Assomption	K2PJ	SC	Pointsett Range
CYKZ	ON	Toronto/Buttontville	KJST	PA	Johnstown/Cambria	CWQH	PQ	Lennoxville	K29J	SC	Rock Hill
CYYZ	ON	Toronto/Pearson	KLNS	PA	Lancaster	CWMJ	PQ	Maniwaki	KUZA	SC	Rock Hill
CYTR	ON	Trenton/Military	KLBE	PA	Latrobe/Westmorland	CWMW	PQ	Maniwaki	KSPA	SC	Spartanburg/Memorial
CWAB	ON	Trowbridge	K0G6	PA	Meadville/Port Mead	CWDP	PQ	Manouane-Est	K86J	SC	Sullivan's Island/CGS
CWJM	ON	Upper Rideau Lake	K2G6	PA	Meadville/Port Mead	CYNM	PQ	Matagami/Airport	KSSC	SC	Sumter/Shaw AFB
CWDV	ON	Upsala	KGJK	PA	Meadville/Port Mead	CWTA	PQ	Mc Tavish	KABR	SD	Aberdeen/Regional/%0309
CWIM	ON	Upsala	KRHA	PA	Middle Atlantic/RFC	CWMN	PQ	McGill	KEFC	SD	Belle Fourche
CWDN	ON	Wasaga Beach	KMDT	PA	Middletown/Olmsted	CWMI	PQ	Miscou Island	KBKX	SD	Brookings
CYKF	ON	Waterloo Well	KG08	PA	Monongahela/Rostraver	CWIX	PQ	Mistook	K2WX	SD	Buffalo
CWXZ	ON	Wawa	KP53	PA	Monongahela	CWHY	PQ	Mont-Orford	KOWX	SD	Buffalo
CYXZ	ON	Wawa/Airport	KPNE	PA	Philadelphia	CYYY	PQ	Mont Joli/Airport	K9V9	SD	Chamberlain
CWEC	ON	Welcome Island	KPHL	PA	Philadelphia/Intl	CYUL	PQ	Montreal/Dorval	K0V1	SD	Custer
CWMZ	ON	Western Island	KPHI	PA	Philadelphia/Mt. Holly/	CYMX	PQ	Montreal/Mirabel	KCUT	SD	Custer
CYVV	ON	Warton/Airport			NWSFO	CYHU	PQ	Montreal/Saint Hubert	KD07	SD	Faith
CZVV	ON	Warton/Readac	KDIX	PA	Philadelphia/Manchester/			Airport	KHON	SD	Huron/Regional
CYQG	ON	Windsor/Airport			%0523	CWPQ	PQ	Montreal-Est	KY22	SD	Lemmon
KAST	OR	Astoria/Clatsop	KPSB	PA	Philipsburg/Mid-State	CYNA	PQ	Natashquan/Airport	KMHE	SD	Mitchell
K3S2	OR	Aurora State	KAGC	PA	Pittsburgh/Allegheny	CYHH	PQ	Nemiscaw/Airport	KMBG	SD	Mobridge
KJAO	OR	Aurora State	KPBZ	PA	Pittsburgh/Coraopolis/	CWOC	PQ	New Carlisle	KY26	SD	Mobridge
KBEK	OR	Baker Municipal			%0526	CWNQ	PQ	Nicolet	KP05	SD	Philp
KNJC	OR	Boardman	KPIT	PA	Pittsburgh/Intl	CWOD	PQ	Normandin	....	SD	Pickstown
K4BK	OR	Brookings	KPTW	PA	Pottstown	CYXP	PQ	Pangnirtung/Airport	KPIR	SD	Pierre/Municipal
KBNO	OR	Burns/Municipal	KRDG	PA	Reading/Spaatz Field	CWPD	PQ	Parc Des Laurentid	K6V2	SD	Pine Ridge
K92S	OR	Cape Blanco/CGS	KRVL	PA	Reedsville/Mifflin	CWPK	PQ	Parent	KIEN	SD	Pine Ridge
KCZK	OR	Cascade Locks/State	K8G5	PA	Saint Marys/Municipal	CWTG	PQ	Pointe Des Monts	KRCA	SD	Rapid City/Ellsworth AFB
KP47	OR	Chetco River/CGS	KSEG	PA	Selinsgrove/Penn Valley	CWZB	PQ	Port-Aux-Basques	KUDX	SD	Rapid City/New
K83S	OR	Coos Bay/CGS	KUNV	PA	State College	CYPN	PQ	Port Menier			Underwood
KCVO	OR	Corvallis/Municipal	KRHA	PA	State College/Mid Atlantic	CYPX	PQ	Povungnituk	KUNR	SD	Rapid City/NWSFO
KEUG	OR	Eugene/Mahlon Sweet			RFC	CWQV	PQ	Puente Claveau	KRAP	SD	Rapid City/Regional

KREJ	SD	Redig	KBGD	TX	Borger/Hutchinson	K9R3	TX	Port Isabel/CGS	K63W	VA	Milford Haven/CGS
KFSD	SD	Sioux Falls/Foss/%0544	KBRO	TX	Brownsville/Intl/%0324	K8R9	TX	Port O'Connor/CGS	KPHF	VA	Newport News
K8D3	SD	Sisseton	KBWD	TX	Brownwood/Municipal	KRKP	TX	Rockport/Aransas County	KW39	VA	Norfolk/Chesapeake
KSPF	SD	Spearfish/Clyde Ice	KBMQ	TX	Burnet	K28T	TX	Sabine Pass	KORF	VA	Norfolk/Intl Arpt
KATY	SD	Watertown/Municipal	KT27	TX	Burnet	KRPE	TX	Sabine Pass	KNGU	VA	Norfolk/NAS Chambers
KNED	SD	Winner/Bob Wiley	KHHF	TX	Canadian/Hemphill	K8R7	TX	Sabine Pass/CGS	KAKQ	VA	Norfolk/Wakefield/%0516
KSFD	SD	Winner/Bob Wiley	KKHO	TX	Central Texas/NEXRAD	KSJT	TX	San Angelo/Mathis/	K64W	VA	Parramore Beach
KYKN	SD	Yankton	KCDS	TX	Childress/Municipal			NWSFO	KPTB	VA	Petersburg
CWJI	SK	Assiniboia/Airport	KCLL	TX	College Station	KSAT	TX	San Antonio/Intl	KNYG	VA	Quantico/MCAF
CWTF	SK	Beartooth Island	KCXO	TX	Conroe/Montgomery	KSKF	TX	San Antonio/Kelly AFB	KRIC	VA	Richmond/Byrd Field
CWIK	SK	Broadview	KNVT	TX	Corpus Christi	KRND	TX	San Antonio/Randolph AFB	KOFP	VA	Richmond/Hanover
CWVT	SK	Buffalo Narrows	KNGW	TX	Corpus Christi/Cabiness	KSSF	TX	San Antonio/Stinson	KW83	VA	Richmond/Hanover
CYVT	SK	Buffalo Narrows	KCRP	TX	Corpus Christi/Intl/%0343	KHYI	TX	San Marcos	KRNN	VA	Roanoke/Blacksburg/WFO
CWLZ	SK	Candle Lake	KNGP	TX	Corpus Christi/NAS	KRJO	TX	San Marcos	KFCX	VA	Roanoke/Floyd County/
CWWC	SK	Collins Bay	KCRS	TX	Corsicana/Campbell	KT98	TX	San Marcos			%0534
CWAQ	SK	Coronach	KCOT	TX	Cotulla/Municipal	KP07	TX	Sanderson	KROA	VA	Roanoke/Municipal
CWFN	SK	Cree Lake	KDHT	TX	Dalhart/Municipal	K6R6	TX	Sanderson/Dryden	KEZF	VA	Shannon/Airport
CWVP	SK	Cypress Hills Park	KADS	TX	Dallas/Addison Airport	KF39	TX	Sherman-Denison/Grayson	KW71	VA	Smith Point/Sunnybank
CWEH	SK	Eastend Cypress	KDAL	TX	Dallas/Love Field			County	KSHD	VA	Staunton/Shenandoah
CWOK	SK	Elbow	KNBE	TX	Dallas/NAS Hensley				KSFQ	VA	Suffolk
CYEN	SK	Estevan/Airport	KRBD	TX	Dallas/Redbird	KT46	TX	South Brazos A70	KNTU	VA	Virginia Beach/Oceana
CYHB	SK	Hudson Bay	KDFW	TX	Dallas-Fort Worth/Intl	KTPL	TX	Temple/Miller			NAS
CWHN	SK	Jimmy Lake	KDRT	TX	Del Rio/Intl	KTRL	TX	Terrell	KVQN	VA	Volens
CYKJ	SK	Key Lake	KDLF	TX	Del Rio/Laughlin AFB	KTYR	TX	Tyler/Pounds Field	KWAL	VA	Wallops Island/Station
CYKY	SK	Kindersley/Airport	KDFX	TX	Del Rio/Laughlin AFB/US	KVCT	TX	Victoria/Regional	KIAD	VA	Washington/Dulles
CYVC	SK	La Ronge/Airport			Hwy 90	KACT	TX	Waco-Madison/Cooper	KDCA	VA	Washington/National
CWJX	SK	Leader/Airport	KDTO	TX	Denton/Municipal	KFWR	TX	West Gulf/RFC	KW08	VA	Weirwood/Kellam Fld
CYLL	SK	Lloydminster/Airport	K5R0	TX	East Addition B323	KIWS	TX	West Houston/Lakeside	KOKV	VA	Winchester/Regional
CWLE	SK	Lucky Lake	KELP	TX	El Paso/Intl	KSPS	TX	Wichita Falls/Municipal	KLNP	VA	Wise/Lonesome Pine
CWMQ	SK	Maple Creek	KELP	TX	El Paso/Intl	KSHP	TX	Wichita Falls/Sheppard	KSTT	VI	Charlotte Amalie
CWLJ	SK	Meadow Lake	KEPZ	TX	El Paso/Santa Teresa/			AFB	KSTX	VI	Christiansted
CYLJ	SK	Meadow Lake/Airport			WFO/%0357	KW12	TX	Wichita Falls/Sheppard	KMPV	VT	Barre-Montpelier
CWFF	SK	Melfort	KEPZ	TX	El Paso/Santa Teresa/			AFB	K5B5	VT	Bennington/State
CYMJ	SK	Moose Jaw/Military			WFO/%0357	KINK	TX	Wink/Winkler County	KDDH	VT	Bennington/State
CWBU	SK	Nipawin	KGRK	TX	Fort Hood/Gray AAF	K4BL	UT	Blanding	KCCX	VT	Burlington/Colchester
CYBU	SK	Nipawin/Airport	KFST	TX	Fort Stockton	KBCE	UT	Bryce Canyon	KBTX	VT	Burlington/Intl/NWSFO/
CYQW	SK	North Battleford	KAFF	TX	Fort Worth/Alliance	KU17	UT	Bullfrog Marina			%0326
CYPA	SK	Prince Albert/Airport	KFWH	TX	Fort Worth/Carswell AFB	KCDC	UT	Cedar City/Municipal	KMVL	VT	Morrisville
CYQR	SK	Regina/Airport	KFTW	TX	Fort Worth/Meacham	KICX	UT	Cedar City/NEXRAD/	K9B2	VT	Newport
CWDJ	SK	Regina/University	KNFW	TX	Fort Worth/NAS			%0330	KRUT	VT	Rutland/State
CWKO	SK	Rockglen	KFWS	TX	Fort Worth/NEXRAD/	KU24	UT	Delta	KVSF	VT	Springfield/Hartnes
CWRJ	SK	Rosetown East			%0345	KDTA	UT	Delta/Municipal	K1V4	VT	St Johnsbury
CYXE	SK	Saskatoon/Airport	KFWD	TX	Fort Worth/North/WFO	KDGP	UT	Dugway/Proving Ground	....	VT	Wilington
CWCD	SK	Saskatoon/Kemen	K8R8	TX	Freeport/CGS	KU16	UT	Eagle Range	K91S	WA	Alki Point/CGLS
CWJH	SK	Southend	KFOQ	TX	Freeport/SAWR	KU28	UT	Green River Range	KAOW	WA	Arlington
CWSR	SK	Spiritwood West	K9R0	TX	Galveston/CGS	K4HV	UT	Hanksville	KS88	WA	Arlington
CYSF	SK	Stony Rapids/Airport	KGLS	TX	Galveston/Scholes	K7LI	UT	Joseph	KZSE	WA	Auburn
CYCN	SK	Swift Current/Airport	KGTU	TX	Georgetown	KLGU	UT	Logan/Cache Airport	KBLI	WA	Bellingham/Intl
CWDC	SK	Uranium City	KT04	TX	Georgetown	KMLF	UT	Milford/Municipal	KPWT	WA	Bremerton/National
CWVN	SK	Vai Marie Se	KGVF	TX	Greenville/Majors	KCNY	UT	Moab/Canyonlands	K75S	WA	Burlington/Mt Vernon
CWLW	SK	Waskesiu Lake	KGDP	TX	Guadalupe Pass	KHIF	UT	Ogden/Hill AFB	KS38	WA	Burrows Island
CWIW	SK	Watrous East	KHRL	TX	Harlingen/Intl	KOGD	UT	Ogden/Hinckley	KATX	WA	Camano Island/%0542
CWWF	SK	Weyburn	KHDO	TX	Hondo/Municipal	KPUC	UT	Price/Carbon	K82S	WA	Cape Disappointment
CWOY	SK	Wynyard	KLVJ	TX	Houston/Clover Field	KPVU	UT	Provo/Municipal	K93S	WA	Cape Flattery/CGLS
CWYO	SK	Wynyard	KT00	TX	Houston/Clover Field	KU67	UT	Roosevelt	KCQV	WA	Colville/Municipal
CYQV	SK	Yorkton/Airport	KT02	TX	Houston/Clover Field	KSGU	UT	Saint George	KNRA	WA	Coupeville
KTRI	TN	Bristol/Johnson/Tri-City	KDWH	TX	Houston/David W. Hooks	KZLC	UT	Salt Lake City/ARTCC	K07S	WA	Deer Park/Airport
KCQN	TN	Chattanooga/Daisy	KHGK	TX	Houston/Dickinson/%0378	KSTR	UT	Salt Lake City/Colorado	KDEW	WA	Deer Park/Airport
KCHA	TN	Chattanooga/Lovell	KEFD	TX	Houston/Ellington			Basin RFC	KS53	WA	Destruction Island
KCKV	TN	Clarksville/Outlaw	KIAH	TX	Houston/Intercontinental	KMTX	UT	Salt Lake City/Elder/%0537	KORS	WA	Eastsound
KMRC	TN	Columbia/Maury County	KHOU	TX	Houston/William P. Hobby	KSLC	UT	Salt Lake City/Intl	KELN	WA	Ellensburg/Bowers
KCJE	TN	Cookeville/Putnam	KT39	TX	Huntsville	KT62	UT	Tooele	KEPH	WA	Ephrata/Municipal
KCSV	TN	Crossville Memorial	KUTS	TX	Huntsville	KU71	UT	Vernal	KPAE	WA	Everett/Paine Field
KDYR	TN	Dyersburg	KJCT	TX	Junction	KVEL	UT	Vernal	KGRF	WA	Fort Lewis/Gray AAF
KMKL	TN	Jackson/McKellar	KERV	TX	Kerrville/Municipal	KENV	UT	Wendover	KFHR	WA	Friday Harbor
KDKX	TN	Knoxville/Downtown	KHLR	TX	Killeen/Fort Hood AAF	....	UT	West Vertical Grid	K84S	WA	Grays Harbor/CGS
KMRX	TN	Knoxville/Morristown/	KILE	TX	Killeen/Municipal	KVJI	VA	Abington	KHMS	WA	Hanford
		%0387	KNQI	TX	Kingsville/NAS	KBCB	VA	Blacksburg/Virginia Tech/	KHQM	WA	Hoquiam/Bowerman
KTYS	TN	Knoxville/Municipal	KLRD	TX	Laredo/Intl			Airport	KKLS	WA	Kelso-Longview
KGWX	TN	Memphis/Hwy 8 & USA	KGGG	TX	Longview/Gregg County	KW51	VA	Cape Charles/CGS	KMWH	WA	Moses Lake/Grant County
		Hwy 278	KLBB	TX	Lubbock/Intl/%0398	K62W	VA	Cape Henry/CGLS	K8S7	WA	Neah Bay
KMEM	TN	Memphis/Intl	KREE	TX	Lubbock/Reese AFB	KCHO	VA	Charlottesville	K96S	WA	New Dungeness/CGS
KNQA	TN	Memphis/Millington/NAS/	KLFK	TX	Lufkin/Angelina County	....	VA	Chesapeake/LGT-VSL	K76S	WA	Oak Harbor Airpark
		%0501	KMRF	TX	Marfa/Municipal	K0W8	VA	Chincoteague	....	WA	Ocean Shores/CGS
KMEG	TN	Memphis/WFO	KMFE	TX	McAllen/Miller Intl	KW63	VA	Clarksville/Marks	KOLM	WA	Olympia
KBNA	TN	Nashville/Metro	KF60	TX	McGregor	KCJR	VA	Culpeper	K4OM	WA	Omak
KOHX	TN	Nashville/Old Hickory/	KPWG	TX	McGregor	KDAN	VA	Danville/Regional	KOMK	WA	Omak
		%0512	KTKI	TX	McKinney	KPSK	VA	Dublin/New River Valley	KNIX	WA	Pacific Beach
KMQY	TN	Smyrna	KMAF	TX	Midland-Odessa/%0518	KPVX	VA	Farmville	KPSC	WA	Pasco/Tri-Cities
KBGF	TX	Winchester/Municipal	KMWL	TX	Mineral Wells/Municipal	KNFE	VA	Fentress	K97S	WA	Point No Point/CGS
KDYS	TX	Abilene/Dyess AFB	KOCH	TX	Nacogdoches	KDAA	VA	Fort Belvoir/Davison	K99S	WA	Point Robinson/CGLS
KDYX	TX	Abilene/Dyess AFB/Moran	K3R5	TX	New Braunfels	KFAF	VA	Fort Eustis/Felker	K53S	WA	Point Wilson/CGLS
KABI	TX	Abilene/Municipal	KBAZ	TX	New Braunfels	KFKN	VA	Franklin/J B Rose	KNOW	WA	Port Angeles/CGAS
KALI	TX	Alice/Intl	KEWX	TX	New Braunfels/WFO/	KBKT	VA	Ft Pickett/Blackstone	KCLM	WA	Port Angeles/Intl
KE38	TX	Alpine/Municipal			%0539	KLFI	VA	Hampton/Langley AFB	KPUW	WA	Pullman/Moscow Regional
KAMA	TX	Amarillo/Intl/%0313	KE02	TX	Odessa	KHLX	VA	Hillsville/Galax	K87S	WA	Quillayute River/CGLS
KLBX	TX	Angleton/Lake Jackson	KODO	TX	Odessa	KHSP	VA	Hot Springs/Ingalls	KUIL	WA	Quillayute State
KF54	TX	Arlington	KNOG	TX	Orange Grove/NALF	KJYO	VA	Leesburg/Godfrey	KRNT	WA	Renton/Municipal
KGKY	TX	Arlington	KPSX	TX	Palacios/Municipal	KLKU	VA	Louisa	KRLD	WA	Richland
KBSM	TX	Austin/Bergstrom/Intl	KPRX	TX	Paris/Cox Field	KLYH	VA	Lynchburg/P. Glenn	KBFI	WA	Seattle/Boeing Field
KAUS	TX	Austin/Mueller	KPVV	TX	Plainview/Hale County	KHEF	VA	Manassas Municipal	KSEW	WA	Seattle/Sandpoint/NWSFO
KBPT	TX	Beaumont/Port Arthur	K2R8	TX	Port Aransas	KMKJ	VA	Marion/Wytheville	KSEA	WA	Seattle-Tacoma/Intl
KNIR	TX	Beeville/Chase NAS	K9R1	TX	Port Aransas/CGS	KMTV	VA	Martinsville	KSHN	WA	Shelton/Sanderson
KBGS	TX	Big Spring	KPIL	TX	Port Isabel	KAVC	VA	Meck/Brunswick	K86S	WA	Smith Island/CGLS
KBIF	TX	Biggs AAF/Ft Bliss	KT31	TX	Port Isabel	KMFV	VA	Melfa/Accomack	KSKA	WA	Spokane/Fairchild AFB

KSFF	WA	Spokane/Felts Field	K4DG	WY	Douglas
KGEG	WA	Spokane/Intl	KDGW	WY	Douglas/Converse
KOTX	WA	Spokane/WFO/%0547	KEVW	WY	Evanston/Burns Field
KSMP	WA	Stampede Pass	KGCC	WY	Gillette
KTIW	WA	Tacoma	KGEY	WY	Greybull/South Big Horn County
KTIW	WA	Tacoma Narrows	KJAC	WY	Jackson Hole
KTCM	WA	Tacoma/Mc Chord AFB	KLND	WY	Lander/Hunt Field
KDLS	WA	The Dalles	KLND	WY	Lander/Hunt Field
KTDO	WA	Toledo-Winlock/Memorial	KLAR	WY	Laramie/General Brees
KVUO	WA	Vancouver	KMBW	WY	Medicine Bow/FD Point
....	WA	Walla Walla	KPOY	WY	Powell/Municipal
KALW	WA	Walla Walla/Regional	KRWL	WY	Rawlins/Municipal
KEAT	WA	Wenatchee/Pangborn	KRIW	WY	Riverton/Regional/%0392
K43S	WA	West Point/CGLS	....	WY	Riverton/Regional/NWSFO
KNUW	WA	Whidbey Island	....	WY	Riverton/Regional/NWSFO
KNUW	WA	Whidbey Island/NAS	KRKS	WY	Rock Springs
K2S9	WA	Willapa Harbor	KSHR	WY	Sheridan County/Airport
KYKM	WA	Yakima/Air Terminal	KTOR	WY	Torrington
KAIG	WI	Antigo	KWRL	WY	Worland/Municipal
KATW	WI	Appleton/Outagamie	KP60	WY	Yellowstone
KASX	WI	Ashland/Kennedy	CWOI	YK	Ivvavik Park
KDLL	WI	Baraboo/Wisconsin Dells	CZOC	YK	Old Crow
K47C	WI	Boscobel	CYXQ	YT	Beaver Creek/Airport
KOVS	WI	Boscobel	CWDB	YT	Burwash
KCLI	WI	Clintonville	CYDB	YT	Burwash/Airport
K29Y	WI	Devils Island/LS	CEX4	YT	Carmacks
KEGV	WI	Eagle River	CWON	YT	Dawson
KEAU	WI	Eau Claire County/Airport	CYDA	YT	Dawson/Airport
KFLD	WI	Fond Du Lac	CWUM	YT	Faro
KGRB	WI	Green Bay/Straubel/ NWSFO/%0371	CZFA	YT	Faro/Airport
KHYR	WI	Hayward	CWHT	YT	Haines Junction
KJVL	WI	Janesville/Rock County	CWJN	YT	Herschel Island
KUNU	WI	Juneau	CWKM	YT	Komakuk Beach
KENW	WI	Kenosha	CYMA	YT	Mayo/Airport
K16C	WI	Kenosha/CGS	CYOC	YT	Old Crow/Airport
KLSE	WI	La Crosse/Municipal	CWRR	YT	Rock River
KARX	WI	La Crosse/WFO/%0389	CYDM	YT	Ross River/Airport
KLNR	WI	Lone Rock/Regional	CFS7	YT	Sheldon Lake
KMSN	WI	Madison	CYUA	YT	Shingle Point/Airport
KMSN	WI	Madison-Dane/Regional	CWZW	YT	Teslin
KMTW	WI	Manitowac/Municipal	CYZW	YT	Teslin/Airport
KMFI	WI	Marshfield	CYQH	YT	Watson Lake/Airport
KCMY	WI	McCoy/US-AF	CYXY	YT	Whitehorse/Airport
KMDZ	WI	Medford			
K15C	WI	Milwaukee/CGLS			
KMKX	WI	Milwaukee/Dousman			
KMKE	WI	Milwaukee/Mitchell			
KMWC	WI	Milwaukee/Timmerman			
KMRJ	WI	Mineral Point			
KARV	WI	Minocqua/Woodruff			
KEFT	WI	Monroe			
KCWA	WI	Mosinee/Central Wisconsin			
KEEW	WI	Neenah			
KOSH	WI	Oshkosh/Wittman Field			
KPKF	WI	Park Falls/Municipal			
KPBH	WI	Phillips/Price County			
KRAC	WI	Racine/Batten Field			
KRHI	WI	Rhineland/Oneida			
KRIE	WI	Rice Lake/Municipal			
KSBM	WI	Sheboygan			
K21C	WI	Sheboygan/CGS			
KSTE	WI	Stevens Point/Municipal			
K0Y2	WI	Sturgeon Bay			
KSUE	WI	Sturgeon Bay			
KSUW	WI	Superior			
KC58	WI	Two Rivers/CGS			
KVOK	WI	Volk/Camp Douglas			
KRYV	WI	Watertown			
KSKC	WI	Waukesha			
KAUW	WI	Wausau/Municipal			
KETB	WI	West Bend			
KISW	WI	Wisconsin/Alexander			
KBKW	WV	Beckley/Memorial			
KBLF	WV	Bluefield/Mercer County			
KCRW	WV	Charleston/Kanawha			
KRLX	WV	Charleston/Ruthdale/ %0334			
KCKB	WV	Clarksburg/Benedum			
KEKN	WV	Elkins/Randolph Field			
KHTS	WV	Huntington/Tri State			
KLWB	WV	Lewisburg/Greenbrie			
KMRB	WV	Martinsburg/Regional			
KMGW	WV	Morgantown/Hart Field			
KPKB	WV	Parkersburg/Wilson			
KHLG	WV	Wheeling/Ohio County			
KSSU	WV	White Sulphur Spring			
KBPI	WY	Big Piney			
KBYG	WY	Buffalo/Johnson			
KCPR	WY	Casper/Natrona Intl			
KCYS	WY	Cheyenne/Warren AFB/ NWSFO/%0335			
KCOD	WY	Cody/Municipal			
KCZI	WY	Crazy Woman/FD Point			

CODES & CONTRACTIONS

The following is a listing of codes and contractions that are often used in weather bulletins.

Special thanks to Debi Iacovelli

A absolute (temperature)
 A Alaskan Standard Time
 A Arctic (air mass)
 A hail
 A Atlantic Standard Time
 AATM at all times
 ABBR abbreviate
 ABCST automatic broadcast
 ABD aboard
 ABM abeam
 ABND abandon
 ABNDT abundant
 ABNML abnormal
 ABT about
 ABV above
 AC anticipated convection
 AC altocumulus
 AC convective outlook
 AC altocumulus
 ACCAS altocumulus castellanus
 ACCT account
 ACCUM accumulate
 ACES access
 ACFT aircraft
 ACK acknowledge
 ACLD above clouds
 ACLT accelerate
 ACMPYG accompanying
 ACPT accept
 ACPY accompany
 ACRS across
 ACSL standing lenticular altocumulus
 ACT active
 ACTG acting
 ACTV active
 ACTVT activate
 ACTVTY activity
 ACYC anticyclonic
 ADDN addition
 ADJ adjacent
 ADM alphanumeric display module (AFOS)
 ADQT adequate
 ADRNDCK Adirondack
 ADS address
 ADT Alaskan Daylight Time
 ADT Atlantic Daylight Time
 ADV advise
 ADVC advice
 ADVCTN advection
 ADVN advance
 ADVY advisory
 AERO aeronautical
 AES Atmospheric Environment Service (Canada)
 AFB Air Force Base
 AFC area forecast center
 AFCT affect
 AFDK after dark
 AFIRM affirmative
 AFOS Automation of Field Operations and Services
 AFT after
 AFTN afternoon

AGL above ground level
 AGN again
 AGR agree
 AGRMT agreement
 AHD ahead
 AIREP air report
 AIRMET Airmans Meteorological Report
 AK Alaska
 AL all
 AL Alabama
 ALDS Automatic Lightning Detection System
 ALF aloft
 ALG along
 ALGHNY Allegheny
 ALNMT alignment
 ALNOT Alert Notice
 ALQDS all quadrants
 ALSEC all sectors
 ALSTG altimeter setting
 ALT altitude
 ALTA Alberta
 ALTHO although
 ALTM altimeter
 ALTN alternate
 ALUTN Aleutian
 ALWF actual wind factor
 AM ante meridiem
 AMB ambiguity
 AMD amend
 AMDT amendment
 AMOS Automated Meteorological Observation Station
 AMP amplifier/amplify
 AMPLTD amplitude
 AMS American Meteorological Society
 AMS air mass
 AMSL above mean sea level
 AMT amount
 ANCPPT anticipate
 ANLYS analysis
 ANNC announce
 ANS answer
 ANT antenna
 AOA at or above
 AOB at or below
 AOC Aircraft Operations
 AOPA Aircraft Owners and Pilot's Association
 AP anomalous propagation
 APCH approach
 APLCN Appalachian
 APNT appoint
 APPR appear
 APRNT apparent
 APROP appropriate
 APRX approximate
 APSG after passage/passing
 APT automatic picture transmission
 APV approve
 APVL approval
 AR Atlantic Route
 AR Arkansas
 ARFOR Area forecast
 ARMET forecast upper wind and temperature
 ARND around

ARNG arrange
 ARNO A-scope or azimuth range display
 inoperative
 ARNOT area notice
 ARPT airport
 ARR arrival/arrive
 ARST arrest
 ARTCC Air Route Traffic Control Center
 AS altostratus
 ASAP as soon as possible
 ASC ascend to
 ASDL aircraft to satellite data link
 ASGN assign
 ASL above sea level
 ASMD assumed
 ASND ascend
 ASOS Automated Surface Observing System
 ASSOCD associated
 ASST assistant
 AST Alaskan Standard Time
 AST Atlantic Standard Time
 ATCH attach
 ATLC Atlantic
 ATMT attempt
 ATND attend
 ATTM at this time
 ATTN attention
 AURBO Aurora Borealis
 AUTH authority/authorized
 AUTO automatic
 AUTOB Automatic Weather Reporting System
 AUX auxiliary
 AUZ authorize
 AVBL available
 AVG average
 AVN aviation/Aviation
 AWA advise when able
 AWANS Aviation WX & NOTAM System
 AWBE automatic WX broadcast equipment
 AWE advise when established
 AWIPS Advanced WX Interactive Processing System
 AWOS automatic wx obs/report
 AWS Air Weather Service
 AWT awaiting
 AWX account weather
 AWY airway
 AXBT airborne expendable bathythermograph
 AZ Arizona
 AZM azimuth
 B blue
 B beginning of precipitation (time in minutes)
 B Bering Standard Time
 B temperature below zero
 BAC below all clouds
 BACLIN baroclinic
 BAL balance
 BAM Beta Advection model
 BASE cloud base
 BATROP barotropic prognosis
 BC back course
 BC British Columbia
 BCFG fog patches

BCH	beach
BCKG	backing
BCM	become
BCN	beacon
BCREQ	broadcast requested
BCST	broadcast
BCSTN	broadcast station
BD	blowing dust
BDA	Bermuda
BDR	border
BDRY	boundary
BFDK	before dark
BFR	before
BGN	began/begin
BHND	behind
BIFR	before encountering IFR conditions
BINOVC	breaks in overcast
BKN	broken
BL	between layers
BLD	build
BLDUP	buildup
BLKHLS	Black Hills
BLKT	blanket
BLN	balloon
BLO	below/below clouds
BLSN	blowing snow
BLZD	blizzard
BMS	basic meteorological services
BN	blowing sand
BND	bound
BNDRY	boundary
BNTH	beneath
BOVC	base of overcast
BPS	bytes per second
BR	Bahama Route
BR	branch
BRF	brief
BRG	bearing
BRGT	bright
BRK	break
BRKHIC	breaks in higher
BRKSHR	Berkshire
BRM	barometer
BS	blowing snow
BTL	between layers
BTR	better
BTWN	between
BUL	bulletin
BUR	bureau
BUS	business
BWER	bounded weak echo
BY	blowing spray
BYD	beyond
BZR	buzzer (radar)
C	Celsius
C	Central Standard Time
C	continental (air mass)
C	ceiling
C	Central Region
CA	cloud-to-air lightning
CA	California
CAA	cold air advection
CAN	Canada
CANOT	Canadian NOTAM
CAO	cold air outbreak
CAPE	convective available potential energy
CAPT	captain
CARIB	Caribbean
CAS	calibrated airspeed
CASCDS	Cascades
CAT	category
CAT	clear air turbulence
CATX	climb and cross
CAVOK	cloud and visibility OK
CAVU	clear and visibility

CAWS	Common Aviation Weather Subsystem
CB	cumulonimbus
CBMAM	cumulonimbus mamma
CC	cirrocumulus
CC	cloud-to-cloud lightning
CCLDS	clear of clouds
CCLKOB	counterclockwise orbit
CCLKWS	counterclockwise
CCR	cloud cover radiometer
CCRZ	climb and cruise
CCSL	standing lenticular
CD	cold
CDFNT	cold front
CDT	Central Daylight Time
CENPAC	Central North Pacific
CFM	confirm
CFN	confine
CFP	cold front passage
CFY	clarify
CG	Coast Guard
CG	cloud-to-ground
CGAS	Coast Guard Air Station
CGLS	Coast Guard LORAN
CGSTN	congestion
CH	channel
CHAP	chapter
CHARC	characteristic
CHC	chance
CHG	change
CHNL	channel
CHOK	check okay
CHRG	charge
CHSPK	Chesapeake
CHTR	charter
CI	cirrus
CIG	ceiling
CIL	Category Inventory List (AFOS)
CIN	convective inhibition
CIRNAV	circumnavigate
CIRNOT	circuit notice
CIT	near or over large
CIV	civil
CK	check
CKT	circuit
CL	closing station
CL	course line
CLA	clear type of ice
CLBI	climb immediately
CLBR	calibration
CLD	cloud
CLDNS	cloudiness
CLG	calling
CLIPER	Climatology and Persistence Model
CLKOB	clockwise orbit
CLKWS	clockwise
CLNC	clearance
CLR	clear
CLRS	clear and smooth
CLSD	closed
CLST	celestial
CM	centimeter
CMA	comma
CMB	climb
CMNC	commence
CMPT	compact
CMPL	complete
CMPLX	complex
CMPSN	composition
CMPT	component
CNCL	cancel
CNCNT	concurrently
CNCT	connect
CNDN	Canadian
CNS	consolidated NOTAM

CNSDRBL	considerable
CNSTNT	consistent
CNTR	center
CNTRL	central
CNTRLN	centerline
CNVG	converge
CNVRT	convert
CNVSN	conversion
CNVTV	convective
CO	company
CO	county
CO	Colorado
COLL	collect
COM	communication
COMB	combine
COML	commercial
COMP	computed/computer
COMPR	compare
COMPRT	compartment
COND	condition
CONF	confidential
CONFDC	confidence
CONFIGN	configuration
CONT	continue/continuously
CONTDVD	Continental Divide
CONTRAILS	condensation trails
CONV	convergence
COORD	coordinate
COR	correct/corrected
COT	at the coast
COV	cover
CPBL	capable
CPD	coupled
CPHC	Central Pacific Hurricane Center
CPTY	capacity
CRAD	composite radar data processing
CRC	circle
CRCN	circulation
CRLC	circulate
CRS	course
CRTFY	certify
CS	cirrostratus
CSDR	consider
CSDRBL	considerable
CSLDT	consolidate
CST	coast
CST	Central Standard Time
CSTLN	coastline
CT	Connecticut
CTC	contact
CTGY	category
CTH	cloud top height
CTL	control
CTN	caution
CTSKLS	Catskills
CU	cumulus
CUFRA	cumulus fractus
CVN	convene
CVR	cover
CW	current wave
CWA	California Weather Association
CWSU	Central Weather
CWZF	computer worded zone forecast
CYC	cyclonic
CYCLGN	cyclogenesis
CYL	cylinder
CZM	Coastal Zone Management
D	dust
D/A	digital-to-analog
DA	daylight ascending
DA	Digital Atmosphere
DA	for date
DABRK	daybreak
DALGT	daylight
DAP	do all possible

DB	decibel	DROP	dropsonde/dropwindsonde	ENSO	El Nino Southern
DB	describe	DRYLN	dryline	ENTR	entire
DBL	double	DRZL	drizzle	EOF	expected ops forecast
DBTF	doubtful	DSCNT	descent	EOF	end of file
DC	direct current	DSGND	designated	EPAC	Eastern Pacific
DC	District of Columbia	DSIPT	dissipate	EPI	expanded position
DCAVU	clear/scattered and vis > 10mi	DSND	descend	EQUIP	equipment
DCR	decrease	DSNT	distant	ERY	early
DCRSD	decreased	DSPL	display	ESERN	east-southeastern
DCT	direct	DSPLC	displace	ESEWD	east-southeastward
DD	Development Division (NCEP)	DSPN	disposition	ESNTL	essential
DDFF	wind direction and speed format	DSPRL	dispersal	EST	estimate/estimation
DE	Delaware	DSR	desire	EST	estimation
DEF	defense	DST	distort	ESTAB	establish
DEG	degree	DSTC	distance	ETC	et cetera
DENEB	fog dispersal operations	DTG	date time group	ETFL	each thousand ft level
DEP	depart/departure	DTL	detail	ETI	estimated information
DEPT	department	DTLN	International Dateline	ETIM	elapsed time
DEST	destination	DTRM	determine	ETOV	estimated time over
DEV	deviation	DTRT	deteriorate	ETP	estimated time of
DF	direction finding	DUC	dense upper cloud	EU	electronic unit
DFCLT	difficult	DUPE	duplicate	EVAC	evacuation
DFLNT	diffluent	DURG	during	EVAL	evaluate/evaluation
DFNT	definite	DURN	duration	EVE	evening
DFRS	differs	DVGNC	divergence	EXAM	examination
DFS	diffuse	DVGNT	divergent	EXCH	exchange
DFUS	diffuse	DVIP	digital video integrator and processor	EXCLD	exclude
DGNL	diagonal			EXCLV	exclusive
DGR	danger	DVLP	develop	EXCP	except
DIAM	diameter	DVOR	doppler VOR	EXCT	execute
DIFAX	digital facsimile	DVRG	diverge	EXPC	expect
DIGG	digging	DVRSN	diversion	EXPED	expedite
DIP	deepest intensification	DVW	downward vertical	EXPS	express
DIR	director	DWG	drawing	EXSEC	extra section
DISABLD	disabled	DWIPS	Digital Weather Image Processing System	EXTD	extend
DISC	discontinue			EXTN	extension
DISEM	disseminate	DWNDFTS	downdrafts	EXTRAP	extrapolate
DISRE	disregard	DWPNT	dew point	EXTRM	extreme
DIST	district	DX	duplex	EXTSV	extensive
DIST	distance	E	Eastern Region	F	Fahrenheit
DISTR	distribute	E	Eastern Standard Time	F	fog
DIV	divergence	E	Eastern Daylight Time	F	Fujita scale
DIV	division	E	ending of precipitation	FA	forecast area
DKTS	Dakotas	E	equatorial (air mass)	FAA	Federal Aviation Administration
DLA	delay	E	estimated	FAC	facility
DLT	delete	E	east	FAH	Fahrenheit
DLVR	deliver	E	equalled	FAM	familiar
DLVY	delivery	EBND	eastbound	FAX	facsimile
DLY	daily	ECMWF	European Center for Medium range Weather Forecasts	FCST	forecast
DMG	damage			FG	fog
DMNT	dominant	ECOM	en-route communications	FIG	figure
DMSH	diminish	EDT	Eastern Daylight Time	FIL	filament
DMSP	Defense Meteorological Satellite Program	EFCT	effect	FILG	filling
		EFF	effective	FINO	WX report will not be filed
DNS	dense	ELAT	estimated latitude	FIRAV	first available
DNSLP	downslope	ELEC	electric	FIRG	firing
DNSTRM	downstream	ELECN	electrician	FL	flash advisory
DNWND	downwind	ELEV	elevate/elevation	FL	flight level
DO	ditto	ELIP	elliptical	FL	Florida
DOC	Department of Commerce	ELNAR	El Nino in the ancient	FLCTN	fluctuation
DOD	Department of Defense	ELNGT	elongate	FLDST	flood stage
DOE	Department of Energy	ELONG	estimated longitude	FLG	falling
DOLLY	data link	ELSW	elsewhere	FLO	flow
DOPLID	Doppler Lidar	EMBDD	embedded	FLRY	flurry
DOPLIGHT	Doppler and lightning	EMERG	emergency	FLT	flight
DP	deep	EMSU	Enviroment Meteorological Support Unit	FLW	follow
DPD	dew point depression			FLWIS	flood warning issued
DPNG	deepening	EN	El Nino	FM	from
DPTH	depth	ENCTR	encounter	FMT	format
DR	direct route	ENDCE	endurance	FNCTN	function
DRCT	direct	ENDG	ending	FNL	final analysis forecast system/run/ model
DRCTN	direction	ENERN	east-northeastern		
DRFT	drift	ENEWD	east-northeastward	FNT	front
DRIBU	drifting buoy code	ENHNCD	enhanced	FNTGNS	frontogenesis
DRIR	direct readout infrared	ENHNCMNT	enhancement	FNTL	frontal

FNTLYS	frontolysis	H	high	IFUN	if unable
FONE	telephone	H	hurricane	IFVR	if visibility remains
FORNN	forenoon	H2	pres at 200 mb/37K FT)	IL	Illinois
FOSFAX	Family of Services Facsimile Network (DIFAX)	H3	pres at 300 mb/30K FT)	IMC	instrument meteorological conditions
FPM	feet per minute	H5	pres at 500 mb/18K FT)	IMDT	immediate
FPP	from present position	H7	pres at 700 mb/10K FT)	IMGRY	imagery
FQT	frequent	H85	pres at 850 mb/5K FT)	IMP	impracticable
FREQ	frequency	HA	high accuracy	IMPL	impulse
FRM	form	HAA	height above airport	IMPT	important
FRMG	forming	HAZ	hazard	IMT	immediate/immediately
FRMN	formation	HCVIS	high clouds visible	IN	inch
FROPA	frontal passage	HD	high density	IN	Indiana
FROSFC	frontal surface	HDEP	haze layer estimated depth (feet)	INADQT	inadequate
FRST	frost	HDFRZ	hard freeze	INC	incorporated
FRWF	forecast wind factor	HDSVLY	Hudson Valley	INCL	include
FRZ	freeze	HDWND	headwind	INCLV	inclusive
FRZN	frozen	HF	high frequency	INCOMP	incomplete
FT	feet/foot	HGT	height	INCOR	incorrect
FT	terminal forecast	HI	high	INCR	increase
FTHR	farther/further	HI	Hawaii	INDC	indicate
FURN	furnish	HIBAL	high altitude balloon	INDCTD	indicated
FV	forward visibility	HIEAT	highest temp equaled for all time	INDEF	indefinite
FWD	forward	HIEFM	highest temp equaled for month	INDUS	industrial
FWDC	forward collect	HIER	higher	INFO	information
FYI	for your information	HIESE	highest temp equaled so early	INLD	inland
G	gusts reaching (knots)	HIESL	highest temp equaled so late	INOP	inoperative
GA	Georgia	HIFOR	high level forecast	INP	if not possible
GAC	global area coverage	HITMP	highest temperature	INSP	inspect
GARP	Global Atmospheric Research Program	HIXAT	highest temp exceeded for all time	INST	instrument
GATE	GARP Atlantic Tropical Experiment	HIXFM	highest temp exceeded for month	INSTA	interstate
GCM	Global Circulation model	HIXSE	highest temp exceeded so early	INSTBY	instability
GDAS	Global Data Assimilation System	HIXSL	highest temp exceeded so late	INSTL	install
GDM	Graphics Display Module (AFOS)	HLF	half	INSTR	instruct
GEN	general	HLSTO	hailstones	INT	intersection
GENOT	general notice	HLTP	hilltop	INTCNTL	intercontinental
GEO	geographic	HLYR	haze layer aloft	INTCP	intercept
GEOREF	geographical reference	HND	hundred	INTFC	interference
GF	ground fog	HNL	Honolulu	INTL	international
GFDEP	ground fog estimated depth (feet)	HOL	holiday	INTMD	intermediate
GFS	Gulf Stream Front	HOOK	hook echo	INTMT	intermittent
GHZ	gigahertz	HP	high-precipitation	INTR	interior
GICG	glaze icing	HPA	hectopascal	INTRMTRGN	inter-mountain region
GLDR	glider	HR	here	INTRP	interrupt
GLFALSK	Gulf of Alaska	HR	hour	INTS	intense
GLFCAL	Gulf of California	HRD	Hurricane Research	INTSFY	intensify
GLFMEX	Gulf of Mexico	HRDI	High-Resolution Doppler Imagery	INTST	intensity
GLFSTLAWR	Gulf of St Lawrence	HRFAX	High-Resolution facsimile	INTVL	interval
GMT	Greenwich Mean Time	HRPT	high resolution picture transmission	INTXN	intersection
GND	ground	HRZN	horizon	INVES	investigate
GNDFG	ground fog	HTN	heterodyne	INVOF	in the vicinity of
GNTR	generator	HURCN	hurricane	INVR	inversion
GOES	Geostationary Operational Environmental Satellite	HUREP	hurricane report	INVSTAR	investigate and report
GOVT	government	HURRAN	Hurricane Analogs model	IOVC	in overcast
GRAD	gradient	HV	high voltage	IP	ice pellets
GRBL	garble	HVY	heavy	IPV	improve
GRBNKS	Grand Banks	HWVR	however	IPW	ice pellet showers
GRDL	gradual	HWY	highway	IR	infra-red
GRIDDS	NMC forecast model analysis software	HX	high index	IR	ice on runway
GRTLKS	Great Lakes	HYDRO	hydrographic	IREG	irregular
GSFC	Goddard Space Flight Center (NASA)	Hz	hertz	IS	island
GSTS	gusts	IA	Iowa	ISOL	isolate
GSTY	gusty	IAW	in accordance with	ITCZ	intertropical convergence zone
GTCL	Great Circle	IC	ice crystals	ITNRNT	itinerant
GTR	greater	ICG	icing	ITRY	itinerary
GTS	Global Telecommunication System	ICGIC	icing in clouds	IVFRC	in VFR conditions
GUID	guidance (computer forecasts)	ICGICIP	icing in clouds and precipitation	IWW	International Weather Watchers
GV	ground visibility	ICGIP	icing in precipitation	JCTN	junction
GVG	giving	ICWF	Interactive Computer Worded Forecast	JET	jet stream
H	haze	ID	identification	JTSTR	jet stream
H	hour	ID	Idaho	JTWC	Joint Typhoon Warning Center
H	hourly	IDENT	identify/identifier/identification	K	cold (air mass)
		IF	intermediate fix	K	smoke
		IF	ice fog	K	K-index (stability)
		IFR	Instrument Flight Rules	KC	kilocycles
				KDEP	smoke layer estimated depth (feet)

KFRST killing frost
 KH Kelvin-Helmholtz
 KHZ kilohertz
 KLYR smoke layer aloft
 KM kilometers
 KOCTY smoke over city
 KS Kansas
 KT knot
 KW kilowatt
 KY Kentucky
 L drizzle
 L logistics
 L low
 L/MF low/medium frequency
 LA Louisiana
 LABRDR Labrador
 LAC local area coverage
 LAT latitude
 LAWRS Limited Aviation Weather Report Station
 LB pounds (weight)
 LCL local/locally
 LCT locate
 LCTMP little change in temp
 LD long distance
 LDG leading
 LDR linear depolarization
 LDW LORAN-C Dropwindsonde
 LEWP line echo wave pattern
 LF low frequency
 LF light fine
 LFC level of free convection
 LFM Limited-Area Fine-Mesh model
 LFT lift
 LGRNG long range
 LGT light
 LGWV long wave
 LI lifted index
 LIFR Low IFR-ceiling
 LIN linearly
 LK lake
 LKLY likely
 LL landline
 LLJ low-level jet
 LLWAS low level wind shear alert system
 LLWS low level wind shear
 LMT limit
 LN line
 LND land
 LOC locally
 LOEAT lowest temp equaled all time
 LOEFM lowest temp equaled for month
 LOESE lowest temp equaled so early
 LOESL lowest temp equaled so late
 LONG longitude
 LONGL longitudinal
 LOP line of position
 LORAC long range accuracy
 LORAN long range navigation
 LOTMP lowest temp
 LOXAT lowest temp exceeded all time
 LOXFM lowest temp exceeded for month
 LOXSE lowest temp exceeded so early
 LOXSL lowest temp exceeded so late
 LP low-precipitation
 LRG large
 LRG long range
 LRS Lake Reporting Service
 LS left side
 LS light smooth
 LSR loose snow on runway
 LST Local Standard Time
 LTD limited
 LTG lightning
 LTGCA lightning cloud-to-air

LTGCC lightning cloud-to-cloud
 LTGCG lightning cloud-to-ground
 LTGCV lightning cloud-to-water
 LTGIC lightning in clouds
 LTL little
 LTLCG little change
 LTNG lightning
 LTR later
 LTTR latter
 LV leaving
 LVG leaving
 LVL level
 LWA lake wind advisory
 LWR lower
 LX low index
 LYR layer
 M meters
 M MACH number
 M maritime (air mass)
 M measured ceiling
 M missing
 M Mountain Standard Time
 M Mountain Daylight Time
 M measured
 MA map analysis
 MA Massachusetts
 MA much above normal
 MACH MACH Number
 MAG magnetic
 MAINT maintain/maintenance
 MALF mostly aloft
 MAN Manitoba
 MAN manual
 MAR modernization and associated restructuring
 MAX maximum
 MB millibars
 MCC mesoscale convective complex
 MCIDAS Man-Computer Interactive Data Access System
 MCS mesoscale convective system
 MD Maryland
 MDFY modify
 MDT moderate
 ME Maine
 MED medium
 MEGG merging
 MET meteorological
 METAR aviation routine weather report
 METEOSAT geostationary meteorological satellite (Europe)
 METOF meteorological officer
 METRO metropolitan
 MEX Mexico
 MF medium frequency
 MFE mean forecast errors
 MHDG magnetic heading
 MHKVLV Mohawk Valley
 MHz Megahertz
 M mile
 MI Michigan
 MID middle
 MIDIZ Mid-Canada Identification Zone
 MIDN midnight
 MIFG patches of shallow fog not deeper than 2 m
 MIL military
 MIN minimum
 MIN minute
 MPS Mission and Information Planning System
 MISC miscellaneous
 MISG missing
 MKD marked
 MKR marker

MLTLVL melting level
 MM millimeter
 MMIPS Man-Made Interactive Processing System
 MMO main meteorological
 MN Minnesota
 MNLD mainland
 MNLY mainly
 MO Missouri
 MOD Meteorological Operations Division (NCEP)
 MOGR moderate or greater
 MONTR monitor
 MOREPS monitor station reports
 MOS model output statistics
 MOV move
 MPH miles per hour
 MRF Medium Range Forecast model run
 MRGL marginal
 MRNG morning
 MRTM maritime
 MS minus
 MS Mississippi
 MSG message
 MSL mean sea level
 MSLP mean sea level pressure
 MSTLY mostly
 MSTR moisture
 MT Montana
 MTN mountain
 MTRL material
 MTRY momentary
 MULT multiple
 MUNI municipal
 MV millivolt
 MVFR marginal visual flight
 MXD mixed
 N north
 N neither fog nor haze
 N normal
 N/A not applicable
 NAB not above
 NAP not at present
 NAR North American Route
 NAT North Atlantic
 NATL national
 NAV navigation
 NAWAS National Warning System
 NAWAU National Aviation and Weather Advisory Unit
 NB New Brunswick
 NBND northbound
 NBRHD neighborhood
 NC no change
 NC North Carolina
 NCAR National Center for Atmospheric Research
 NCEP National Center for Environmental Prediction (formerly NMC)
 NCWX no change in weather
 ND North Dakota
 NE Nebraska
 NE northeast
 NE no echoes (equipment performance normal)
 NEC necessary
 NEG negative
 NELY northeasterly
 NESDIS National Environmental Satellite Data and Information Service
 NEW ENG New England
 NEXRAD Next Generation Weather Radar
 NFLD Newfoundland
 NFQ night frequency
 NGM Nested Grid Model

NGT	night	OFFL	official	PNHDL	Panhandle
NH	New Hampshire	OFFP	occluded frontal passage	POP	probability of precipitation
NHC	National Hurricane Center	OFSHR	offshore	POPT	probability of precipitation type
NHC90	NHC 1990 forecast model	OH	Ohio	POS	positive
NHD	not heard	OI	optimal interpolation	POZP	probability of frozen precipitation
NIL	none	OK	operating normally	PP	perfect prog
NJ	New Jersey	OK	Oklahoma	PPI	plan position indicator
NL	no layers	OLR	outgoing longwave	PPIDE	PPI duplicate echoes compared with other radar
NLDN	National Lightning Detection Network	OM	out for maintenance	PPINA	PPI not available
NLT	not later than	OMTNS	over mountains	PPINE	PPI no echoes observed
NM	nautical mile	ONSHR	on shore	PPINO	PPI report equipment inoperative
NM	New Mexico	ONT	Ontario	PPIOK	PPI equipment operation resumed
NMBR	number	ONW	on watch	PPIOM	PPI equipment out for maintenance
NMC	National Meteorological Center (obsolete; now NCEP)	OOT	out of tolerance	PPM	Printer Plotter Module (AFOS)
NMCC	nocturnal MCC	OPER	operate	PPS	propose
NML	nominal	OPN	operation	PPSN	present position
NMR	nautical mile radius	OPNML	operations normal	PR	photo reconnaissance
NMRS	numerous	OR	Oregon	PRBL	probable
NNERN	north-northeastern	ORGPCH	orographic	PRBLTY	probability
NNEWD	north-northeastward	ORIG	original	PRCTN	precaution
NNMI	non-linear normal mode	OSD	Office of System Development	PRECD	precede
NNWRN	north-northwestern	OSF	Operational Support	PREFNTL	pre-frontal
NNWWWD	north-westward	OTAS	on top and smooth	PRELIM	preliminary
NOAA	National Oceanic and Atmospheric Administration	OTLK	outlook	PRES	pressure
NOAAPORT	NOAA Owned Satellite Dataport	OTO	Oklahoma Thunderstorm Outlook	PRESFR	pressure falling rapidly
NOGAPS	US Navy Operational Global Atmospheric Prediction System	OTR	other	PRESRR	pressure rising rapidly
NOIFN	no information	OTRW	otherwise	PRIM	primary
NOREP	no report	OTS	out of service	PRIND	present indications are
NORPI	no Balloon Observation unless weather changes significantly	OVC	overcast	PRIRA	primary radar
NOSPL	not required to take observations	OVD	overdue	PRJMP	pressure jump
NOTAM	Notice(s) To Airmen	OVHD	overhead	PROC	procedure
NPRS	non-persistent	OVLA	overlay	PROCD	proceed
NR	near	OVR	over	PROG	prognosis/prognostic
NR	number	OVNR	overrun	PROG	progress
NRW	narrow	OVSEA	overseas	PROGV	progressive
NS	nimbostratus	OVTK	overtake	PROPA	propagation
NS	Nova Scotia	P	Pacific Standard Time	PRP	prepare
NSCSWD	no small craft or storm warning	P	Pacific Daylight Time	PRSNT	present
NSSFC	National Severe Storm Forecast Center	P	Polar (air mass)	PRST	persist
NSSL	National Severe Storms Laboratory	P	precipitation	PRVD	provide
NTE	not to exceed	PA	pressure altitude	PS	plus
NV	Nevada	PA	Pennsylvania	PSBL	possible
NWA	negative vorticity	PAC	Pacific	PSG	passage
NVV	negative vertical	PALF	partly aloft	PSG	passing
NW	northwest	PARA	paragraph	PSN	position
NWFB	National Weather Forecast Branch	PAT	pattern	PSR	packed snow on runway
NWLY	northwesterly	PBL	probable	PST	Pacific Standard Time
NWP	Numerical Weather Prediction	PCLL	persistent cells	PT	procedure turn
NWRN	northwestern	PCGRIDDS	NMC forecast analysis model software for PC	PTCHY	patchy
NWS	National Weather Service	PCPN	precipitation	PTCP	participate
NWSTC	National Weather Service Training Center	PD	period	PTLY	partly
NWSTG	National Weather Service Telecommunications Gateway	PDMT	predominant	PTN	portion
NXT	next	PDS	particularly dangerous situation	PUB	public
NY	New York	PDW	priority delayed weather	PUBL	publish
OAC	oceanic area control	PE	primitive equation models	PUP	Principal User Processor
OAT	outside air temperature	PEN	peninsula	PVA	positive vorticity
OB	on board	PENT	penetrate or penetration	PVL	prevail
OBS	observation	PERF	perforator	PVLD	prevailed
OBSC	obscure	PERM	permanent	PVLT	prevalent
OBST	obstruct	PGTSND	Puget Sound	PWB	pilot weather briefing
OBSTN	obstruction	PIL	Product Inventory List (AFOS)	PWR	power
OC	obstruction chart	PIREP	pilot weather report	PWRNO	power failure
OCFNT	occluded front	PIREPS	Pilot Aviation Weather Reports	PWROK	power restored
OCLD	occlude	PIRFC	pilot requests forecast	Q	squall
OCLN	occlusion	PISE	no pilot balloon obs due to unfavorable sea conditions	QLFY	qualify
OCNL	occasional	PISO	no pilot balloon obs due to snow	QLM	Quasi-Lagrangian model
OCR	occur	PIWI	no pilot balloon obs due to high or gusty surface wind	QLTY	quality
ODW	Omega Dropwindsonde	PLAT	present latitude	QN	question
		PLB	planetary boundary layer	QNTY	quantity
		PLONG	present longitude	QPE	quantitative precipitation estimate
		PLS	please	QPF	quantitative precipitation forecast
		PLW	plow (snow)	QSTNRY	quasi-stationary
				QTR	quarter
				QUAD	quadrant

QUE	Quebec	RF	radio frequency	SAB	satellite analysis
R	rain	RFD	rear flank downdraft	SANBAR	"Sanders, et al," barotropic model
R	rain or drizzle	RFI	radio frequency	SAO	surface airways
RABA	no RAWIN obs. no balloons available	RFS	refuse	SASK	Saskatchewan
RABAL	radiosonde balloon wind data	RGD	ragged	SATFY	satisfactory
RABAR	radiosonde balloon release	RGL	Regional Run computer model	SATR	so as to reach
RACO	no RAWIN obs. communications out	RGLR	regular	SAWRS	Supplementary Aviation Weather Reporting Station
RADAR	radio detection and ranging	RGN	region	SBSD	subside
RADAT	radiosonde observation	RH	relative humidity	SBSDNC	subsidence
RADNO	report missing account radio failure	RHI	range height indicator	SC	stratocumulus
RADON	radar beacon	RHINA	radar range height indicator not available	SC	South Carolina
RADU	Weather Radar Analysis and Development Unit	RHINO	radar range height indicator not operating on scan	SCA	Small Craft Advisory
RAFI	radiosonde observation not filed	RI	Rhode Island	SCLN	semicolon
RAFRZ	radiosonde observation freezing levels	RIF	reduction in force	SCNDRY	secondary
RAFS	Regional Analysis and Forecast System	RIOGD	Rio Grande	SCSL	standing lenticular stratocumulus
RAHE	no RAWIN obs. no gas available	RIS	reports identification	SCT	scattered
RAICG	radiosonde observation icing at radar jamming	RITE	right (direction of turn)	SCTR	sector
RAJAM	Remote Automated Meteorological Observation Station	RL	report immediately upon leaving	SCTY	security
RAMOS	rawinsonde observation	RLS	release	SD	South Dakota
RAOB	radar advisory	RLSTN	relay station	SDBY	standby
RARAD	radar weather report	RLTV	relative	SDM	structural dynamic model
RAREP	Radio Acoustic Sounding System	RLV	relieve	SE	southeast
RASS	radiosonde analysis and verification unit	RM	remarks (PIREP only)	SELS	Severe Local Storms Branch (SPC)
RAVU	no RAWIN obs. unfavorable weather	RMLR	radar microwave link	SELY	southeasterly
RAWE	no RAWIN obs. high and gusty winds	RMLT	radar microwave link	SENS	sensitivity
RAWI	upper winds obs. by radio methods	RMN	remain	SEPN	separation
RAWIN	returned account of weather	RMNDR	remainder	SEQ	sequence
RAWX	radio beacon	RMRK	remark	SERN	southeastern
RBN	road reconnaissance	RNAV	area navigation	SFC	surface
RC	radar cloud detection report	RNFL	rainfall	SFERICS	atmospherics
RCD	radar cloud detection not available	RO	regional office	SG	snow grains
RCDNA	radar cloud detection no echo observed	ROBEPS	radar operating below performance standards	SGD	signed
RCDNE	radar cloud detector inoperative; breakdown until	ROI	Regional Optimum Interpolation	SGD	Solar-Geophysical Data
RCDNO	radar cloud detector out for maintenance until	ROT	rotate	SGFNT	significant
RCDOM	remain on company frequency	ROTG	rotating	SGL	signal
RCF	reach	ROTN	rotation	SHARP	Stability Helicity and Radiosonde Prediction Software
RCH	radio check	ROV	report over	SHF	super high frequency
RCKY	Rockies (mountains)	RPD	rapid	SHIFT	shift
RCMD	recommend	RPG	Radar Product Generator	SHLW	shallow
RCON	reconfiguration	RPLC	replace	SHP	standard holding
RCPT	receipt	RPM	rotation per minute	SHRT	short
RCRD	record	RPRT	report	SHRTLY	shortly
RCV	receive	RPT	repeat	SHRTWV	shortwave
RDA	Radar Data Acquisition	RQ	request	SHTDN	shutdown
RDAT	radar data (digitized)	RQR	require	SHUD	should
RDC	reduce	RR	radar range station	SHWR	shower
RDG	ridge	RS	right side	SI	straight-in approach
RDS	radius	RS	record special	SIERNEV	Sierra Nevada
RDWND	radar dome wind	RSG	rising	SIG	signature
RE	reference	RSN	reason	SIGMET	significant meteorological information
RE	regard	RSTR	restrict	SIM	satellite interpretation message
RECCO	reconnaissance code	RSVN	reservation	SIMUL	simultaneous
RECON	reconnaissance	RTE	route	SINKG	sinking
REF	reference	RTIR	real-time infra-red	SIR	snow and ice on runway
REG	regulation	RTMTR	remote transmitter	SK	sky cover
RELBL	reliable	RTND	retained	SKC	sky clear
RELCT	relocate	RTNE	routine	SKED	schedule
REP	represent	RTRD	retard	SL	sea level
REPL	replace	RTRN	return	SLCT	select
REQ	request	RUF	rough	SLD	solid
REQID	request if desired	RV	radar vector	SLGT	slight
REQSTD	requested	RVR	Runway Visual Range	SLO	slow
ERTE	reroute	RVS	revise	SLOSH	sea land overlake surge data from hurricane model
RES	reserve	RW	rain shower	SLP	slope
RESP	response	RWU	rain showers of unknown	SLR	slush on runway
RESTR	restrict	RY	runway	SLT	sleet
		S	second	SLY	southerly
		S	snow	SM	statute mile
		S	south	SMCC	Systems Monitoring and Coordination Center (AFOS)
		S	southern		
		S	Southern Region	SMK	smoke
		SA	scheduled record	SML	small

SMO surface meteorological observation
 SMR statute mile radius
 SMRY summary
 SMT submit
 SMTH smooth
 SMTM sometime
 SMWHT somewhat
 SNBNK snowbank
 SND sand/sanded/sanding
 SNFLK snowflake
 SNGL single
 SNOINCR A snow depth increase in past hour
 SNOINCR B snow since 6 hourly report
 SNOINCR C snow on ground
 SNW snow
 SNWFL snowfall
 SOI Southern Oscillation Index
 SP station pressure
 SP special observation
 SP snow pellets
 SPAN Stored Program for Alphanumerics
 SPCLY especially
 SPD speed
 SPEC specification
 SPEC spectral model
 SPKL sprinkle
 SPL special
 SPLNS South Plains
 SPRD spread
 SPRL spiral
 SQAL squall
 SQLN squall line
 SR sunrise
 SRCH search
 SRND surround
 SS sunset
 SSERN south-southeastern
 SSEWD south-southeastward
 SSH sea surface height
 SSI Showalter stability
 SST sea surface temperature
 SSWRN south-southwestern
 SSWWD south-southwestward
 ST saint
 ST stratus
 STAGN stagnation
 STBL stable
 STD standard
 STDLY steadily
 STDY steady
 STFR stratus fractus
 STFRA stratus fractus
 STFRM stratiform
 STG strong
 STLT satellite
 STM storm
 STN station
 STNRY stationary
 SUB substitute
 SUBFIX subject to correction
 SUF sufficient
 SUG suggest
 SUP supply
 SUPCHG supercharge
 SUPPL supplement
 SUPR superior
 SUPSD supersede
 SUSP suspend
 SVC service
 SVCBL serviceable
 SVFR special visual flight
 SVG serving
 SVR severe
 SVR severe thunderstorm warning
 SVRL several

SW snow showers
 SW southwest
 SWAP severe weather avoidance plan
 SWB scheduled weather
 SWEAT severe weather threat
 SWH significant wave height
 SWIS Satellite WX Information System
 SWLG swelling
 SWLY southwesterly
 SWO Severe Weather Outlook
 SWODY1 SWO for Day 1
 SWODY2 SWO for Day 2
 SWRN southwestern
 SX stability index
 SXN section
 SYNC synchronous
 SYNOP synoptic
 SYNS synopsis
 SYS system
 T temperature
 T thunder/thunderstorm
 T trace
 T training
 T tropical (air mass)
 T true (bearing)
 T transverse
 T+ severe thunderstorms
 TA temperature (PIREP only)
 TAND tandem
 TARND turn around
 TB turbulence (PIREP only)
 TBJT turbojet
 TC tropical cyclone
 TC time check
 TCD tropical cyclone
 TCHD threshold crossing height downwind
 TCHU threshold crossing height upwind
 TCNTL trans-continental
 TCOM terminal communications
 TCPOD tropical cyclone plan of the day
 TCU towering cumulus
 TD touchdown
 TD tropical depression
 TDA today
 TDEL time delay
 TDL Techniques Development Laboratory
 TDZ touchdown zone
 TEL telecommunications
 TEMP temperature
 TERPS terminal instrument procedure
 TET tetrahedron
 TF terrain following
 TF thermal fine
 TFC traffic
 THD thunderhead
 THDR thunder
 THK thick
 THKNS thickness
 THN thin
 THR threshold
 THRFTR thereafter
 THRU through
 THRUT throughout
 THSD thousand
 THTN threaten
 TIL until
 TIP until past
 TIPW thunderstorm with ice pellet shower
 TKO takeoff
 TLRNC tolerance
 TLWD tailwind
 TM time (PIREP only)
 TMPRY temporary
 TMT transmit
 TMW tomorrow

TN Tennessee
 TNDCY tendency
 TNGT tonight
 TNO no thunderstorm
 TNTV tentative
 TOC to be continued
 TOGA Tropical Oceans and Global Atmosphere Program
 TOP cloud top
 TORN tornado
 TOT time of transmission
 TOVC top of overcast
 TOY time of year
 TP aircraft type
 TPG topping
 TRAJs trajectories
 TRBL trouble
 TRIB tributary
 TRML terminal
 TRMM Tropical Rainfall Measuring Mission
 TRMT terminate
 TROF trough
 TROP tropopause
 TRPC tropic
 TRPCD tropical continental
 TRPCL tropical
 TRPLYR trapping layer
 TRRN terrain
 TRSN transition
 TRTD treated
 TRW thunderstorm with rain shower
 TS thermal smooth
 TS tropical storm
 TSAF Tropical Satellite Analysis and Forecast Unit
 TSATLC Trans-Atlantic
 TSFR transfer
 TSHWR thundershower
 TSNT transient
 TSPAC Trans-Pacific
 TSQLS thundersqualls
 TSTM thunderstorm
 TSV thunderstorm and conditional severe storm probability
 TSW thunderstorm with snow shower
 TURBC turbulence
 TURBT turbulent
 TVL travel
 TVS tornadic vortex signature
 TWD toward
 TWEB transcribed weather broadcasts
 TWI twilight
 TWO tropical weather outlook
 TWR tower visibility
 TWRG towering
 TWRIN tower in an obscuration
 TX Texas
 TZRW thunderstorm with freezing rain
 U intensity unknown
 UA a pilot report
 UAB until advised by
 UAG upper atmosphere geophysics
 UDDF up and down drafts
 UFA until further advised
 UFN until further notice
 UFO unidentified flying object
 UHF ultra high frequency
 UKMET United Kingdom meteorological office forecast model
 UKMO United Kingdom Meteorological Office
 UM unable to maintain
 UN unable
 UNAPV unable to approve
 UNATNDD unattended
 UNAVBL unavailable

UNDL D undelivered
 UNEC unnecessary
 UNHRD unheard
 UNID unidentified
 UNKN unknown
 UNL unlimited
 UNLCTD unlighted
 UNMON unable to monitor
 UNOFF unofficial
 UNOFFL unofficial
 UNRDBL unreadable
 UNRELBL unreliable
 UNRSTD unrestricted
 UNSATFY unsatisfactory
 UNSBL unseasonable
 UNSKED unscheduled
 UNSTBL unstable
 UNSTDY unsteady
 UNSTL unsettle
 UNUSBL unusable
 UPDFTS up drafts
 UPR upper
 UPSLP upslope
 UPSTRM upstream
 URG urgent
 USBL usable
 USGS United States Geological Survey
 UT Utah
 UTC Coordinated Universal
 UTH upper tropospheric
 UUA urgent PIREP
 UVV upward vertical
 UWNDS upper winds
 V valid
 V variable
 V visibility
 VA Victor Airways
 VA Virginia
 VARN variation
 VAULT echo-free vault/ BWER
 VCNTY vicinity
 VCTR vector
 VDP visual descent point
 VFY verify
 VHF very high frequency
 VHRR very high-resolution radiometer
 VIL vertically integrated liquid
 VIP video integrator
 VIS visibility
 VLCTY velocity
 VLF very low frequency
 VLNT violent
 VLY valley
 VMC visual meteorological conditions
 VOL volume
 VORT vorticity
 VORTLOBE vorticity lobe
 VORTMAX vorticity maximum
 VOU voucher
 VR veer
 VRBL variable
 VRG veering
 VRISL Vancouver Island BC
 VRT MOTN vertical motion
 VSB visible
 VSBY visibility
 VSBYDR visibility decreasing
 VSBYIR visibility increasing
 VT Vermont
 VTR vector
 W indefinite ceiling
 W warm (air mass)
 W west
 W Western Region
 WA AIRMET

WA Washington
 WAA warm air advection
 WBTS whereabouts
 WDC-1 World Data Center (western Europe)
 WDC-2 World Data Center (rest of world)
 WDLY widely
 WDSPRD widespread
 WEA weather
 WEFAX Weather Encoded
 WER weak echo region
 WFO weather forecast
 WFP warm front passage
 WI with
 WI Wisconsin
 WIBIS will be issued
 WILCO will comply
 WINT winter
 WINTEM forecast of winds and temperatures aloft
 WIP work in progress
 WK weak
 WKDAY weekday
 WKEND weekend
 WKN weaken
 WL will
 WI within
 WLYS westerlies
 WMO World Meteorological Organization
 WND wind
 WNWRN west-northwestern
 WNWWD west-northwestward
 WO without
 WORM write once read many
 WP waypoint
 WPLTO Western Plateau
 WR wet runway
 WRAPARND wrap-around
 WRM warm
 WRMFNT warm front
 WRNG warning
 WRS worse
 WS SIGMET
 WSH weather service headquarters
 WSHFT wind shift
 WSO Weather Service Office
 WSOM Weather Service Operations Manual
 WSR wet snow on runway
 WSR weather surveillance radar
 WSR-57 WSR-1957
 WSR-74 WSR-1974 storm warning radar
 WSR-88D WSR-1988 Doppler NEXRAD
 WSTCH Wasatch Range
 WSWRN west-southwestern
 WSWWD west-southwestward
 WT weight
 WTR water
 WTSPT waterspout
 WV wave
 WV water vapor
 WV wind at altitude
 WV West Virginia
 WW severe weather forecast
 WWW World Weather Watch
 WX weather
 WXCON weather reconnaissance flight pilot report
 WY Wyoming
 X exceeded
 X obscured
 XBT expendable bathythermograph
 XCP except
 XPC expect
 XPLOS explosive
 XREP auxiliary report
 XTAL crystal

XTLK cross talk
 Y Yukon Standard Time
 Y Yukon Daylight Time
 YDA yesterday
 YKN Yukon
 YLSTN Yellowstone
 Z Greenwich Mean Time
 ZI zonal index
 ZI zone of interior
 ZL freezing drizzle
 ZONE forecast zone
 ZR freezing rain
 ZRNO info. on freezing rain will not be available

PHONETIC ALPHABET

The phonetic alphabet was developed to ensure clear communication of alphabetic characters over radio and poor communications lines. It is occasionally used in meteorology to provide distinguishable "long names" for alphabetic bulletins, storms, and other items.

A	Alpha	J	Juliet	T	Tango
B	Bravo	K	Kilo	U	Uniform
C	Charlie	M	Mike	V	Victor
D	Delta	N	November	W	Whiskey
E	Echo	O	Oscar	X	X-ray
F	Foxtrot	P	Papa	Y	Yankee
G	Golf	Q	Quebec	Z	Zulu
H	Hotel	R	Romeo		
I	India	S	Sierra		