WMO Headings for 2.5 km CONUS Gridded MOS Products

WMO headings have the format of $T_1T_2A_1A_2$ii CCCC

1. The CCCC for all gridded MOS product WMO headings is **KWBQ**.

2. The T_1 values for 2.5 km CONUS GMOS products based on the global model are **M** and **Y**.

3. The T_2 represents the weather element type designator. When feasible, these values match those used for the NDFD WMO headers.

The following T_2 values are used for T_1 = **M**:

A = conditional probability of freezing precipitation
B = conditional probability of frozen precipitation
C = conditional probability of liquid precipitation
D = probability of 0.1" or more of precipitation (6-h)
E = probability of 0.25" or more of precipitation (6-h)
F = probability of 0.5" or more of precipitation (6-h)
G = probability of 1.0" or more of precipitation (6-h)
H = probability of 0.1" or more of precipitation (12-h)
I = probability of 0.25" or more of precipitation (12-h)
J = probability of 0.5" or more of precipitation (12-h)
K = probability of 1.0" or more of precipitation (12-h)
L = probability of 2.0" or more of precipitation (12-h)
M = unassigned
N = unassigned
O = unassigned
P = unassigned
Q = unassigned
R = unassigned
S = unassigned
T = unassigned
U = unassigned
V = unassigned
W = unassigned
X = unassigned
Y = unassigned
Z = unassigned

The following T_2 values are used for T_1 = **Y**:

A = sky cover
B = wind direction at sensor height (nominally, 10 m)
C = wind speed at sensor height (nominally, 10 m)
D = probability of precipitation (12 h)

E = temperature at sensor height (nominally, 2 m)
F = dewpoint temperature at sensor height (nominally, 2 m)
G = daytime maximum temperature at sensor height (nominally, 2 m)
H = nighttime minimum temperature at sensor height (nominally, 2 m)
I = quantitative precipitation (6 h)
J = thunderstorms (6 h)
K = severe weather (6 h)
L = precipitation type best category
M = precipitation potential index (a.k.a. "floating 12-h PoP")
N = probability of precipitation occurrence (on the hour)
O = obstruction to vision
P = visibility
Q = ceiling height
R = relative humidity
S = snowfall amount (24 h)
T = apparent temperature
U = probability of precipitation (6 h)
V = quantitative precipitation (12 h)
W = wind gusts
X = thunderstorms (12 h)
Y = thunderstorms (3 h)
Z = predominant weather

4. The A_1 designates the geographical area. The following designators follow the conventions established in the NDFD WMO headers.
A = Puerto Rico
R = Alaska
S = Hawaii
T = Guam
U = CONUS

5. The A_2 and ii follow the convention established in the NDFD. These three characters together represent the day and hour (UTC) for which the product is valid. The following convention for A_2 and ii is used for the gridded MOS products:

A = Day 0; ii = hour (0-23)
B = Day 1; ii = hour (0-23)
C = Day 2; ii = hour (0-23)
D = Day 3; ii = hour (0-23)
E = Day 4; ii = hour (0-23)
F = Day 5; ii = hour (0-23)
G = Day 6; ii = hour (0-23)
H = Day 7; ii = hour (0-23)
I = Day 8; ii = hour (0-23)
J = Day 9; ii = hour (0-23)

For super headers the grids for days 1-3, 4-7, and 8 and beyond are grouped as follows:

Days 1-3: A_2 = **Z**, ii = 98
Days 4-7: A_2 = **Z**, ii = 97
Days 8 and beyond: A_2 = **Z**, ii = 96

Table 1. WMO headers and product sizes for the 2.5-km CONUS gridded MOS suite.

Element	Header Category	No. of grids per cycle	First/Last Proj./Time Increment (hr)	Bytes per grid/cycle
Cond. prob. of freezing precipitation	$MAUA_2ii$	23 (00Z) 27 (12Z)	6/72/3 (00Z) 6/84/3 (12Z)	270KB /6.5MB (00Z) 270KB /7.5MB (12Z)
	$MAUA_2ii$	40 (00Z) 36 (12Z)	75/192/3 (00Z) 87/192/3 (12Z)	270KB /11.5MB (00Z) 270KB /10.5MB (12Z)
Cond. prob. of frozen precipitation	$MBUA_2ii$	23 (00Z) 27 (12Z)	6/72/3 (00Z) 6/84/3 (12Z)	550KB /12.5MB (00Z) 550KB /14.5MB (12Z)
	$MBUA_2ii$	40 (00Z) 36 (12Z)	75/192/3 (00Z) 87/192/3 (12Z)	550KB /23MB (00Z) 550KB /20MB (12Z)
Cond. prob. of liquid precipitation	$MCUA_2ii$	23 (00Z) 27 (12Z)	6/72/3 (00Z) 6/84/3 (12Z)	550KB /12.5MB (00Z) 550KB /14.5MB (12Z)
	$MCUA_2ii$	40 (00Z) 36 (12Z)	75/192/3 (00Z) 87/192/3 (12Z)	575KB /24MB (00Z) 575KB /21MB (12Z)
6-h PQPF 0.1” or more	$MDUA_2ii$	11 (00Z) 13 (12Z)	12/72/6 (00Z) 12/84/6 (12Z)	400KB /4.4MB (00Z) 400KB /5.2MB (12Z)
	$MDUA_2ii$	14 (00Z) 12 (12Z)	78/156/6 (00Z) 90/156/6 (12Z)	400KB /8.0MB (00Z) 400KB /7.2MB (12Z)
6-h PQPF 0.25” or more	$MEUA_2ii$	11 (00Z) 13 (12Z)	12/72/6 (00Z) 12/84/6 (12Z)	390KB /4.3MB (00Z) 390KB /5.1MB (12Z)
	$MEUA_2ii$	14 (00Z) 12 (12Z)	78/156/6 (00Z) 90/156/6 (12Z)	390KB /7.8MB (00Z) 390KB /7.1MB (12Z)
6-h PQPF 0.5” or more	$MFUA_2ii$	11 (00Z) 13 (12Z)	12/72/6 (00Z) 12/84/6 (12Z)	360KB /4.0MB (00Z) 360KB /4.7MB (12Z)
	$MFUA_2ii$	14 (00Z) 12 (12Z)	78/156/6 (00Z) 90/156/6 (12Z)	360KB /7.2MB (00Z) 360KB /6.5MB (12Z)
6-h PQPF 1.0” or more	$MGUA_2ii$	11 (00Z) 13 (12Z)	12/72/6 (00Z) 12/84/6 (12Z)	300KB /3.3MB (00Z) 300KB /3.9MB (12Z)
	$MGUA_2ii$	14 (00Z) 12 (12Z)	78/156/6 (00Z) 90/156/6 (12Z)	300KB /6.0MB (00Z) 300KB /5.4MB (12Z)
12-h PQPF 0.1” or more	$MHUA_2ii$	10 (00Z) 12 (12Z)	18/72/6 (00Z) 18/84/6 (12Z)	430KB /4.3MB (00Z) 430KB /5.2MB (12Z)
	$MHUA_2ii$	14 (00Z) 12 (12Z)	78/156/6 (00Z) 90/156/6 (12Z)	430KB /8.6MB (00Z) 430KB /7.8MB (12Z)
12-h PQPF 0.25” or more	$MIUA_2ii$	10 (00Z) 12 (12Z)	18/72/6 (00Z) 18/84/6 (12Z)	410KB /4.1MB (00Z) 410KB /5.0MB (12Z)
	$MIUA_2ii$	14 (00Z) 12 (12Z)	78/156/6 (00Z) 90/156/6 (12Z)	410KB /8.2MB (00Z) 410KB /7.4MB (12Z)
12-h PQPF 0.5” or more	$MJUA_2ii$	10 (00Z) 12 (12Z)	18/72/6 (00Z) 18/84/6 (12Z)	390KB /3.9MB (00Z) 390KB /4.7MB (12Z)
	$MJUA_2ii$	14 (00Z) 12 (12Z)	78/156/6 (00Z) 90/156/6 (12Z)	390KB /7.8MB (00Z) 390KB /7.1MB (12Z)
12-h PQPF 1.0” or more	$MKUA_2ii$	10 (00Z) 12 (12Z)	18/72/6 (00Z) 18/84/6 (12Z)	350KB /3.5MB (00Z) 350KB /4.2MB (12Z)
	$MKUA_2ii$	14 (00Z) 12 (12Z)	78/156/6 (00Z) 90/156/6 (12Z)	350KB /7.0MB (00Z) 350KB /6.3MB (12Z)
12-h PQPF 2.0” or more	$MLUA_2ii$	10 (00Z) 12 (12Z)	18/72/6 (00Z) 18/84/6 (12Z)	290KB /2.9MB (00Z) 290KB /3.5MB (12Z)

	MLUA$_2$ii	14 (00Z) 12 (12Z)	78/156/6 (00Z) 90/156/6 (12Z)	290KB /5.8MB (00Z) 290KB /5.3MB (12Z)
Total sky cover	YAUA$_2$ii	23 (00Z) 27 (12Z)	6/72/3 (00Z) 6/84/3 (12Z)	440KB /9.9MB (00Z) 450KB /11.9MB (12Z)
	YAUA$_2$ii	40 (00Z) 36 (12Z)	75/192/3 (00Z) 87/192/3 (12Z)	480KB /18.9MB (00Z) 490KB /17.1MB (12Z)
Wind Direction	YBUA$_2$ii	23 (00Z) 27 (12Z)	6/72/3 (00Z) 6/84/3 (12Z)	500KB /11.2MB (00Z) 500KB /13.2MB (12Z)
	YBUA$_2$ii	40 (00Z) 36 (12Z)	75/192/3 (00Z) 87/192/3 (12Z)	500KB /19.7MB (00Z) 510KB /17.8MB (12Z)
Wind Speed	YCUA$_2$ii	23 (00Z) 27 (12Z)	6/72/3 (00Z) 6/84/3 (12Z)	510KB /11.5MB (00Z) 510KB /13.5MB (12Z)
	YCUA$_2$ii	40 (00Z) 36 (12Z)	75/192/3 (00Z) 87/192/3 (12Z)	520KB /20.3MB (00Z) 520KB /18.3MB (12Z)
PoP (12h)	YDUA$_2$ii	10 (00Z) 12 (12Z)	18/72/12 (00Z) 18/84/12 (12Z)	430KB /4.2MB (00Z) 430KB /5MB (12Z)
	YDUA$_2$ii	20 (00Z) 18 (12Z)	78/192/12 (00Z) 90/192/12 (12Z)	420KB /8.2MB (00Z) 420KB /7.3MB (12Z)
Temperature	YEUA$_2$ii	23 (00Z) 27 (12Z)	6/72/3 (00Z) 6/84/3 (12Z)	610KB /13.6MB (00Z) 610KB /16.2MB (12Z)
	YEUA$_2$ii	40 (00Z) 36 (12Z)	75/192/3 (00Z) 87/192/3 (12Z)	600KB /23.6MB (00Z) 600KB /21.2MB (12Z)
Dew Point	YFUA$_2$ii	23 (00Z) 27 (12Z)	6/72/3 (00Z) 6/84/3 (12Z)	610KB /13.6MB (00Z) 610KB /16MB (12Z)
	YFUA$_2$ii	40 (00Z) 36 (12Z)	75/192/3 (00Z) 87/192/3 (12Z)	600KB /23.4MB (00Z) 590KB /20.9MB (12Z)
Daytime Max	YGUA$_2$ii	3 (00Z) 3 (12Z)	24/74/24 (00Z) 36/84/24 (12Z)	620KB /1.8MB (00Z) 640KB /1.9MB (12Z)
	YGUA$_2$ii	5 (00Z) 4 (12Z)	96/192/24 (00Z) 108/180/24 (12Z)	630KB /3.1MB (00Z) 630KB /2.4MB (12Z)
Nighttime Min	YHUA$_2$ii	2 (00Z) 3 (12Z)	36/60/24 (00Z) 24/72/24 (12Z)	600KB /1.2MB (00Z) 600KB /1.8MB (12Z)
	YHUA$_2$ii	5 (00Z) 5 (12Z)	84/180/24 (00Z) 96/192/24 (12Z)	600KB /2.9MB (00Z) 590KB /2.9MB (12Z)
6-h QPF	YIUA$_2$ii	11 (00Z) 13 (12Z)	12/72/6 (00Z) 12/84/6 (12Z)	460KB /4.9MB (00Z) 460KB /5.8MB (12Z)
	YIUA$_2$ii	14 (00Z) 12 (12Z)	78/156/24 (00Z) 90/156/6 (12Z)	540KB /7.3MB (00Z) 560KB /6.5MB (12Z)
6-h thunderstorm probability	YJUA$_2$ii	11 (00Z) 13 (12Z)	12/72/6 (00Z) 12/84/6 (12Z)	310KB /3.4MB (00Z) 320KB /4MB (12Z)
	YJUA$_2$ii	20 (00Z) 18 (12Z)	78/192/6 (00Z) 90/192/6 (12Z)	330KB /6.4MB (00Z) 330KB /5.7MB (12Z)
Precipitation Type Best Category	YLUA$_2$ii	23 (00Z) 27 (12Z)	6/72/3 (00Z) 6/84/3 (12Z)	240KB /5.5MB (00Z) 240KB /6.5MB (12Z)
	YLUA$_2$ii	40 (00Z) 36 (12Z)	75/192/3 (00Z) 87/192/3 (12Z)	240KB /9.8MB (00Z) 240KB /8.9MB (12Z)
Precipitation potential index (PPI)	YMUA$_2$ii	23 (00Z) 27 (12Z)	6/72/3 (00Z) 6/84/3 (12Z)	470KB/12.0MB (00Z) 470KB/12.0MB(12Z)
	YMUA$_2$ii	40 (00Z) 36 (12Z)	75/192/3 (00Z) 87/192/3 (12Z)	530KB/18.0MB(00Z) 550KB/20.0MB(12Z)

Probability of precipitation occurrence (PoPO)	YNUA$_2$ii	23 (00Z) 27 (12Z)	6/72/3 (00Z) 6/84/3 (12Z)	380KB /9.2MB (00Z) 380KB /10.2MB (12Z)
	YNUA$_2$ii	40 (00Z) 36 (12Z)	75/192/3 (00Z) 87/192/3 (12Z)	380KB /15.2MB (00Z) 380KB /13.7MB (12Z)
Relative Humidity	YRUA$_2$ii	23 (00Z) 27 (12Z)	6/72/3 (00Z) 6/84/3 (12Z)	610KB /13.7MB (00Z) 610KB /16.1MB (12Z)
	YRUA$_2$ii	40 (00Z) 36 (12Z)	75/192/3 (00Z) 87/192/3 (12Z)	610KB /23.9MB (00Z) 610KB /21.4MB (12Z)
24-h snowfall amount	YSUA$_2$ii	5 (00Z) 5 (12Z)	24/72/12 (00Z) 24/72/12 (12Z)	210KB /1MB (00Z) 220KB /1.1MB (12Z)
	YSUA$_2$ii	7 (00Z) 7 (12Z)	84/156/12 (00Z) 84/156/12 (12Z)	290KB /2MB (00Z) 320KB /2.2MB (12Z)
PoP (6h)	YUUA$_2$ii	11 (00Z) 13 (12Z)	12/72/6 (00Z) 12/84/6 (12Z)	400KB /4.3MB (00Z) 400KB /5.1MB (12Z)
	YUUA$_2$ii	20 (00Z) 18 (12Z)	78/192/6 (00Z) 90/192/6 (12Z)	400KB /7.8MB (00Z) 400KB /6.9MB (12Z)
12-h QPF	YVUA$_2$ii	10 (00Z) 12 (12Z)	18/72/6 (00Z) 18/84/6 (12Z)	560KB /5.4MB (00Z) 560KB /6.5MB (12Z)
	YVUA$_2$ii	14 (00Z) 12 (12Z)	78/156/6 (00Z) 90/156/6 (12Z)	670KB /9.2MB (00Z) 690KB /8.1MB (12Z)
Wind Gusts	YWUA$_2$ii	23 (00Z) 27 (12Z)	6/72/3 (00Z) 6/84/3 (12Z)	550KB /12.3MB (00Z) 550KB /14.4MB (12Z)
	YWUA$_2$ii	40 (00Z) 36 (12Z)	75/192/3 (00Z) 87/192/3 (12Z)	560KB /21.9MB (00Z) 560KB /19.8MB (12Z)
12-h thunderstorm probability	YXUA$_2$ii	10 (00Z) 12 (12Z)	18/72/6 (00Z) 18/84/6 (12Z)	350KB /3.4MB (00Z) 350KB /4.1MB (12Z)
	YXUA$_2$ii	20 (00Z) 18 (12Z)	78/192/6 (00Z) 90/192/6 (12Z)	360KB /7.1MB (00Z) 360KB /6.4MB (12Z)
3-h thunderstorm probability	YYUA$_2$ii	22 (00Z) 26 (12Z)	9/72/3 (00Z) 9/84/3 (12Z)	290KB /6.1MB (00Z) 290KB /7.4MB (12Z)
	YYUA$_2$ii	4 (00Z)	75/84/3 (00Z)	300KB /1.2MB (00Z)
Predominant Weather	YZUA$_2$ii	23 (00Z) 27 (12Z)	6/72/3 (00Z) 6/84/3 (12Z)	270KB/7.0MB (00Z) 270KB/6.0MB (12Z)
	YZUA$_2$ii	40 (00Z) 36 (12Z)	75/192/3 (00Z) 87/192/3 (12Z)	270KB/9.7MB (00Z) 270KB/11MB (12Z)

Table 2. Superheaders and individual headers for the 2.5 km CONUS gridded MOS products.

Element	Superheader	Product Headers
Cond. prob. of freezing precipitation	MAUZ98	MAUA18 MAUA21 MAUB00 MAUB03 MAUB06 MAUB09 MAUB12 MAUB15 MAUB18 MAUB21 MAUC00 MAUC03 MAUC06 MAUC09 MAUC12 MAUC15 MAUC18 MAUC21 MAUD00 MAUD03 MAUD06 MAUD09 MAUD12 MAUD15 MAUD18 MAUD21 MAUE00
	MAUZ97	MAUE03 MAUE06 MAUE09 MAUE12 MAUE15 MAUE18 MAUE21 MAUF00 MAUF03 MAUF06 MAUF09 MAUF12 MAUF15 MAUF18 MAUF21 MAUG00 MAUG03 MAUG06 MAUG09 MAUG12 MAUG15 MAUG18 MAUG21 MAUH00 MAUH03 MAUH06 MAUH09 MAUH12 MAUH15 MAUH18 MAUH21 MAUI00 MAUI03 MAUI06 MAUI09 MAUI12 MAUI15 MAUI18 MAUI21 MAUJ00
Cond. prob. of frozen precipitation	MBUZ98	MBUA18 MBUA21 MBUB00 MBUB03 MBUB06 MBUB09 MBUB12 MBUB15 MBUB18 MBUB21 MBUC00 MBUC03 MBUC06 MBUC09 MBUC12 MBUC15 MBUC18 MBUC21 MBUD00 MBUD03 MBUD06 MBUD09 MBUD12 MBUD15 MBUD18 MBUD21 MBUE00
	MBUZ97	MBUE03 MBUE06 MBUE09 MBUE12 MBUE15 MBUE18 MBUE21 MBUF00 MBUF03 MBUF06 MBUF09 MBUF12 MBUF15 MBUF18 MBUF21 MBUG00 MBUG03 MBUG06 MBUG09 MBUG12 MBUG15 MBUG18 MBUG21 MBUH00 MBUH03 MBUH06 MBUH09 MBUH12 MBUH15 MBUH18 MBUH21 MBUI00 MBUI03 MBUI06 MBUI09 MBUI12 MBUI15 MBUI18 MBUI21 MBUJ00
Cond. prob. of liquid precipitation	MCUZ98	MCUA18 MCUA21 MCUB00 MCUB03 MCUB06 MCUB09 MCUB12 MCUB15 MCUB18 MCUB21 MCUC00 MCUC03 MCUC06 MCUC09 MCUC12 MCUC15 MCUC18 MCUC21 MCUD00 MCUD03 MCUD06 MCUD09 MCUD12 MCUD15 MCUD18 MCUD21 MCUE00
	MCUZ97	MCUE03 MCUE06 MCUE09 MCUE12 MCUE15

		MCUE18 MCUE21 MCUF00 MCUF03 MCUF06 MCUF09 MCUF12 MCUF15 MCUF18 MCUF21 MCUG00 MCUG03 MCUG06 MCUG09 MCUG12 MCUG15 MCUG18 MCUG21 MCUH00 MCUH03 MCUH06 MCUH09 MCUH12 MCUH15 MCUH18 MCUH21 MCUI00 MCUI03 MCUI06 MCUI09 MCUI12 MCUI15 MCUI18 MCUI21 MCUJ00
6-h PQPF 0.1” or more	MDUZ98	MDUB00 MDUB06 MDUB12 MDUB18 MDUC00 MDUC06 MDUC12 MDUC18 MDUD00 MDUD06 MDUD12 MDUD18 MDUE00
	MDUZ97	MDUE06 MDUE12 MDUE18 MDUF00 MDUF06 MDUF12 MDUF18 MDUG00 MDUG06 MDUG12 MDUG18 MDUH00 MDUH06 MDUH12
6-h PQPF 0.25” or more	MEUZ98	MEUB00 MEUB06 MEUB12 MEUB18 MEUC00 MEUC06 MEUC12 MEUC18 MEUD00 MEUD06 MEUD12 MEUD18 MEUE00
	MEUZ97	MEUE06 MEUE12 MEUE18 MEUF00 MEUF06 MEUF12 MEUF18 MEUG00 MEUG06 MEUG12 MEUG18 MEUH00 MEUH06 MEUH12
6-h PQPF 0.5” or more	MFUZ98	MFUB00 MFUB06 MFUB12 MFUB18 MFUC00 MFUC06 MFUC12 MFUC18 MFUD00 MFUD06 MFUD12 MFUD18 MFUE00
	MFUZ97	MFUE06 MFUE12 MFUE18 MFUF00 MFUF06 MFUF12 MFUF18 MFUG00 MFUG06 MFUG12 MFUG18 MFUH00 MFUH06 MFUH12
6-h PQPF 1.0” or more	MGUZ98	MGUB00 MGUB06 MGUB12 MGUB18 MGUC00 MGUC06 MGUC12 MGUC18 MGUD00 MGUD06 MGUD12 MGUD18 MGUE00
	MGUZ97	MGUE06 MGUE12 MGUE18 MGUF00 MGUF06 MGUF12 MGUF18 MGUG00 MGUG06 MGUG12 MGUG18 MGUH00 MGUH06 MGUH12
12-h PQPF 0.1” or more	MHUZ98	MHUB06 MHUB12 MHUB18 MHUC00 MHUC06 MHUC12 MHUC18 MHUD00 MHUD06 MHUD12 MHUD18 MHUE00
	MHUZ97	MHUE06 MHUE12 MHUE18 MHUF00 MHUF06 MHUF12 MHUF18 MHUG00 MHUG06 MHUG12 MHUG18 MHUH00 MHUH06 MHUH12

12-h PQPF 0.25” or more	MIUZ98	MIUB06 MIUB12 MIUB18 MIUC00 MIUC06 MIUC12 MIUC18 MIUD00 MIUD06 MIUD12 MIUD18 MIUE00
	MIUZ97	MIUE06 MIUE12 MIUE18 MIUF00 MIUF06 MIUF12 MIUF18 MIUG00 MIUG06 MIUG12 MIUG18 MIUH00 MIUH06 MIUH12
12-h PQPF 0.5” or more	MJUZ98	MJUB06 MJUB12 MJUB18 MJUC00 MJUC06 MJUC12 MJUC18 MJUD00 MJUD06 MJUD12 MJUD18 MJUE00
	MJUZ97	MJUE06 MJUE12 MJUE18 MJUF00 MJUF06 MJUF12 MJUF18 MJUG00 MJUG06 MJUG12 MJUG18 MJUH00 MJUH06 MJUH12
12-h PQPF 1.0” or more	MKUZ98	MKUB06 MKUB12 MKUB18 MKUC00 MKUC06 MKUC12 MKUC18 MKUD00 MKUD06 MKUD12 MKUD18 MKUE00
	MKUZ97	MKUE06 MKUE12 MKUE18 MKUF00 MKUF06 MKUF12 MKUF18 MKUG00 MKUG06 MKUG12 MKUG18 MKUH00 MKUH06 MKUH12
12-h PQPF 2.0” or more	MLUZ98	MLUB06 MLUB12 MLUB18 MLUC00 MLUC06 MLUC12 MLUC18 MLUD00 MLUD06 MLUD12 MLUD18 MLUE00
	MLUZ97	MLUE06 MLUE12 MLUE18 MLUF00 MLUF06 MLUF12 MLUF18 MLUG00 MLUG06 MLUG12 MLUG18 MLUH00 MLUH06 MLUH12
Total sky cover	YAUZ98	YAUA18 YAUA21 YAUB00 YAUB03 YAUB06 YAUB09 YAUB12 YAUB15 YAUB18 YAUB21 YAUC00 YAUC03 YAUC06 YAUC09 YAUC12 YAUC15 YAUC18 YAUC21 YAUD00 YAUD03 YAUD06 YAUD09 YAUD12 YAUD15 YAUD18 YAUD21 YAUE00
	YAUZ97	YAUE03 YAUE06 YAUE09 YAUE12 YAUE15 YAUE18 YAUE21 YAUF00 YAUF03 YAUF06 YAUF09 YAUF12 YAUF15 YAUF18 YAUF21 YAUG00 YAUG03 YAUG06 YAUG09 YAUG12 YAUG15 YAUG18 YAUG21 YAUH00 YAUH03 YAUH06 YAUH09 YAUH12 YAUH15 YAUH18 YAUH21 YAUI00 YAUI03 YAUI06 YAUI09 YAUI12 YAUI15 YAUI18 YAUI21

		YAUJ00
Wind Direction	YBUZ98	YBUA18 YBUA21 YBUB00 YBUB03 YBUB06 YBUB09 YBUB12 YBUB15 YBUB18 YBUB21 YBUC00 YBUC03 YBUC06 YBUC09 YBUC12 YBUC15 YBUC18 YBUC21 YBUD00 YBUD03 YBUD06 YBUD09 YBUD12 YBUD15 YBUD18 YBUD21 YBUE00
	YBUZ97	YBUE03 YBUE06 YBUE09 YBUE12 YBUE15 YBUE18 YBUE21 YBUF00 YBUF03 YBUF06 YBUF09 YBUF12 YBUF15 YBUF18 YBUF21 YBUG00 YBUG03 YBUG06 YBUG09 YBUG12 YBUG15 YBUG18 YBUG21 YBUH00 YBUH03 YBUH06 YBUH09 YBUH12 YBUH15 YBUH18 YBUH21 YBUI00 YBUI03 YBUI06 YBUI09 YBUI12 YBUI15 YBUI18 YBUI21 YBUJ00
Wind Speed	YCUZ98	YCUA18 YCUA21 YCUB00 YCUB03 YCUB06 YCUB09 YCUB12 YCUB15 YCUB18 YCUB21 YCUC00 YCUC03 YCUC06 YCUC09 YCUC12 YCUC15 YCUC18 YCUC21 YCUD00 YCUD03 YCUD06 YCUD09 YCUD12 YCUD15 YCUD18 YCUD21 YCUE00
	YCUZ97	YCUE03 YCUE06 YCUE09 YCUE12 YCUE15 YCUE18 YCUE21 YCUF00 YCUF03 YCUF06 YCUF09 YCUF12 YCUF15 YCUF18 YCUF21 YCUG00 YCUG03 YCUG06 YCUG09 YCUG12 YCUG15 YCUG18 YCUG21 YCUH00 YCUH03 YCUH06 YCUH09 YCUH12 YCUH15 YCUH18 YCUH21 YCUI00 YCUI03 YCUI06 YCUI09 YCUI12 YCUI15 YCUI18 YCUI21 YCUJ00
PoP (12 h)	YDUZ98	YDUB06 YDUB12 YDUB18 YDUC00 YDUC06 YDUC12 YDUC18 YDUD00 YDUD06 YDUD12 YDUD18 YDUE00
	YDUZ97	YDUE06 YDUE12 YDUE18 YDUF00 YDUF06 YDUF12 YDUF18 YDUG00 YDUG06 YDUG12 YDUG18 YDUH00 YDUH06 YDUH12 YDUH18 YDUI00 YDUI06 YDUI12 YDUI18 YDUJ00
Temperature	YEUZ98	YEUA18 YEUA21 YEUB00 YEUB03 YEUB06 YEUB09 YEUB12 YEUB15 YEUB18 YEUB21 YEUC00 YEUC03 YEUC06 YEUC09 YEUC12 YEUC15

		YEUC18 YEUC21 YEUD00 YEUD03 YEUD06 YEUD09 YEUD12 YEUD15 YEUD18 YEUD21 YEUE00
	YEUZ97	YEUE03 YEUE06 YEUE09 YEUE12 YEUE15 YEUE18 YEUE21 YEUF00 YEUF03 YEUF06 YEUF09 YEUF12 YEUF15 YEUF18 YEUF21 YEUG00 YEUG03 YEUG06 YEUG09 YEUG12 YEUG15 YEUG18 YEUG21 YEUH00 YEUH03 YEUH06 YEUH09 YEUH12 YEUH15 YEUH18 YEUH21 YEUI00 YEUI03 YEUI06 YEUI09 YEUI12 YEUI15 YEUI18 YEUI21 YEUJ00
Dew Point	YFUZ98	YFUA18 YFUA21 YFUB00 YFUB03 YFUB06 YFUB09 YFUB12 YFUB15 YFUB18 YFUB21 YFUC00 YFUC03 YFUC06 YFUC09 YFUC12 YFUC15 YFUC18 YFUC21 YFUD00 YFUD03 YFUD06 YFUD09 YFUD12 YFUD15 YFUD18 YFUD21 YFUE00
	YFUZ97	YFUE03 YFUE06 YFUE09 YFUE12 YFUE15 YFUE18 YFUE21 YFUF00 YFUF03 YFUF06 YFUF09 YFUF12 YFUF15 YFUF18 YFUF21 YFUG00 YFUG03 YFUG06 YFUG09 YFUG12 YFUG15 YFUG18 YFUG21 YFUH00 YFUH03 YFUH06 YFUH09 YFUH12 YFUH15 YFUH18 YFUH21 YFUI00 YFUI03 YFUI06 YFUI09 YFUI12 YFUI15 YFUI18 YFUI21 YFUJ00
Daytime Max	YGUZ98	YGUC00 YGUD00 YGUE00
	YGUZ97	YGUF00 YGURG00 YGUH00 YGUI00 YGUJ00
Nighttime Min	YHUZ98	YHUB12 YHUC12 YHUD12
	YHUZ97	YHUE12 YHUF12 YHUG12 YHUH12 YHUI12
6-h QPF	YIUZ98	YIUB00 YIUB06 YIUB12 YIUB18 YIUC00 YIUC06 YIUC12 YIUC18 YIUD00 YIUD06 YIUD12 YIUD18 YIUE00
	YIUZ97	YIUE06 YIUE12 YIUE18 YIUF00 YIUF06 YIUF12 YIUF18 YIUG00 YIUG06 YIUG12 YIUG18 YIUH00 YIUH06 YIUH12
6-h tstorm prob	YJUZ98	YJUB00 YJUB06 YJUB12 YJUB18 YJUC00 YJUC06 YJUC12 YJUC18 YJUD00 YJUD06 YJUD12 YJUD18 YJUE00
	YJUZ97	YJUE06 YJUE12 YJUE18 YJUF00 YJUF06 YJUF12 YJUF18

		YJUG00 YJUG06 YJUG12 YJUG18 YJUH00 YJUH06 YJUH12 YJUH18 YJUI00 YJUI06 YJUI12 YJUI18 YJUJ00
Precipitation Type Best Category	YLUZ98	YLUA18 YLUA21 YLUB00 YLUB03 YLUB06 YLUB09 YLUB12 YLUB15 YLUB18 YLUB21 YLUC00 YLUC03 YLUC06 YLUC09 YLUC12 YLUC15 YLUC18 YLUC21 YLUD00 YLUD03 YLUD06 YLUD09 YLUD12 YLUD15 YLUD18 YLUD21 YLUE00
	YLUZ97	YLUE03 YLUE06 YLUE09 YLUE12 YLUE15 YLUE18 YLUE21 YLUF00 YLUF03 YLUF06 YLUF09 YLUF12 YLUF15 YLUF18 YLUF21 YLUG00 YLUG03 YLUG06 YLUG09 YLUG12 YLUG15 YLUG18 YLUG21 YLUH00 YLUH03 YLUH06 YLUH09 YLUH12 YLUH15 YLUH18 YLUH21 YLUI00 YLUI03 YLUI06 YLUI09 YLUI12 YLUI15 YLUI18 YLUI21 YLUJ00
Precipitation Potential Index (PPI)	YMUZ98	YMUA18 YMUA21 YMUB00 YMUB03 YMUB06 YMUB09 YMUB12 YMUB15 YMUB18 YMUB21 YMUC00 YMUC03 YMUC06 YMUC09 YMUC12 YMUC15 YMUC18 YMUC21 YMUD00 YMUD03 YMUD06 YMUD09 YMUD12 YMUD15 YMUD18 YMUD21 YMUE00
	YMUZ97	YMUE03 YMUE06 YMUE09 YMUE12 YMUE15 YMUE18 YMUE21 YMUF00 YMUF03 YMUF06 YMUF09 YMUF12 YMUF15 YMUF18 YMUF21 YMUG00 YMUG03 YMUG06 YMUG09 YMUG12 YMUG15 YMUG18 YMUG21 YMUH00 YMUH03 YMUH06 YMUH09 YMUH12 YMUH15 YMUH18 YMUH21 YMUI00 YMUI03 YMUI06 YMUI09 YMUI12 YMUI15 YMUI18 YMUI21 YMUJ00
Probability of precipitation occurrence (PoPO)	YNUZ98	YNUA18 YNUA21 YNUB00 YNUB03 YNUB06 YNUB09 YNUB12 YNUB15 YNUB18 YNUB21 YNUC00 YNUC03 YNUC06 YNUC09 YNUC12 YNUC15 YNUC18 YNUC21 YNUD00 YNUD03 YNUD06 YNUD09 YNUD12 YNUD15 YNUD18 YNUD21 YNUE00

	YNUZ97	YNUE03 YNUE06 YNUE09 YNUE12 YNUE15 YNUE18 YNUE21 YNUF00 YNUF03 YNUF06 YNUF09 YNUF12 YNUF15 YNUF18 YNUF21 YNUG00 YNUG03 YNUG06 YNUG09 YNUG12 YNUG15 YNUG18 YNUG21 YNUH00 YNUH03 YNUH06 YNUH09 YNUH12 YNUH15 YNUH18 YNUH21 YNUI00 YNUI03 YNUI06 YNUI09 YNUI12 YNUI15 YNUI18 YNUI21 YNUJ00
Relative Humidity	YRUZ98	YRUA18 YRUA21 YRUB00 YRUB03 YRUB06 YRUB09 YRUB12 YRUB15 YRUB18 YRUB21 YRUC00 YRUC03 YRUC06 YRUC09 YRUC12 YRUC15 YRUC18 YRUC21 YRUD00 YRUD03 YRUD06 YRUD09 YRUD12 YRUD15 YRUD18 YRUD21 YRUE00
	YRUZ97	YRUE03 YRUE06 YRUE09 YRUE12 YRUE15 YRUE18 YRUE21 YRUF00 YRUF03 YRUF06 YRUF09 YRUF12 YRUF15 YRUF18 YRUF21 YRUG00 YRUG03 YRUG06 YRUG09 YRUG12 YRUG15 YRUG18 YRUG21 YRUH00 YRUH03 YRUH06 YRUH09 YRUH12 YRUH15 YRUH18 YRUH21 YRUI00 YRUI03 YRUI06 YRUI09 YRUI12 YRUI15 YRUI18 YRUI21 YRUJ00
24-h snowfall amount	YSUZ98	YSUC00 YSUC12 YSUD00 YSUD12 YSUE00
	YSUZ97	YSUE12 YSUF00 YSUF12 YSUG00 YSUG12
PoP (6h)	YUUZ98	YUUB00 YUUB06 YUUB12 YUUB18 YUUC00 YUUC06 YUUC12 YUUC18 YUUD00 YUUD06 YUUD12 YUUD18 YUUE00
	YUUZ97	YUUE06 YUUE12 YUUE18 YUUF00 YUUF06 YUUF12 YUUF18 YUUG00 YUUG06 YUUG12 YUUG18 YUUH00 YUUH06 YUUH12 YUUH18 YUUI00 YUUI06 YUUI12 YUUI18 YUUJ00
12-h QPF	YVUZ98	YVUB06 YVUB12 YVUB18 YVUC00 YVUC06 YVUC12 YVUC18 YVUD00 YVUD06 YVUD12 YVUD18 YVUE00
	YVUZ97	YVUE06 YVUE12 YVUE18 YVUF00 YVUF06 YVUF12 YVUF18 YVUG00 YVUG06 YVUG12 YVUG18 YVUH00 YVUH06 YVUH12
Wind gusts	YWUZ98	YWUA18 YWUA21 YWUB00 YWUB03 YWUB06 YWUB09 YWUB12 YWUB15

		YWUB18 YWUB21 YWUC00 YWUC03 YWUC06 YWUC09 YWUC12 YWUC15 YWUC18 YWUC21 YWUD00 YWUD03 YWUD06 YWUD09 YWUD12 YWUD15 YWUD18 YWUD21 YWUE00
	YWUZ97	YWUE03 YWUE06 YWUE09 YWUE12 YWUE15 YWUE18 YWUE21 YWUF00 YWUF03 YWUF06 YWUF09 YWUF12 YWUF15 YWUF18 YWUF21 YWUG00 YWUG03 YWUG06 YWUG09 YWUG12 YWUG15 YWUG18 YWUG21 YWUH00 YWUH03 YWUH06 YWUH09 YWUH12 YWUH15 YWUH18 YWUH21 YWUI00 YWUI03 YWUI06 YWUI09 YWUI12 YWUI15 YWUI18 YWUI21 YWUJ00
12-h tstorm prob	YXUZ98	YXUB06 YXUB12 YXUB18 YXUC00 YXUC06 YXUC12 YXUC18 YXUD00 YXUD06 YXUD12 YXUD18 YXUE00
	YXUZ97	YXUE06 YXUE12 YXUE18 YXUF00 YXUF06 YXUF12 YXUF18 YXUG00 YXUG06 YXUG12 YXUG18 YXUH00 YXUH06 YXUH12 YXUH18 YXUI00 YXUI06 YXUI12 YXUI18 YXUJ00
3-h tstorm prob	YYUZ98	YYUA18 YYUA21 YYUB00 YYUB03 YYUB06 YYUB09 YYUB12 YYUB15 YYUB18 YYUB21 YYUC00 YYUC03 YYUC06 YYUC09 YYUC12 YYUC15 YYUC18 YYUC21 YYUD00 YYUD03 YYUD06 YYUD09 YYUD12 YYUD15 YYUD18 YYUD21 YYUE00
	YYUZ97 (00Z only)	YYUE03 YYUE06 YYUE09 YYUE12
Predominant Weather	YZUZ98	YZUA18 YZUA21 YZUB00 YZUB03 YZUB06 YZUB09 YZUB12 YZUB15 YZUB18 YZUB21 YZUC00 YZUC03 YZUC06 YZUC09 YZUC12 YZUC15 YZUC18 YZUC21 YZUD00 YZUD03 YZUD06 YZUD09 YZUD12 YZUD15 YZUD18 YZUD21 YZUE00
	YZUZ97	YZUE03 YZUE06 YZUE09 YZUE12 YZUE15 YZUE18 YZUE21 YZUF00 YZUF03 YZUF06 YZUF09 YZUF12 YZUF15 YZUF18 YZUF21 YZUG00 YZUG03 YZUG06 YZUG09 YZUG12 YZUG15 YZUG18 YZUG21

		YZUH00 YZUH03 YZUH06 YZUH09 YZUH12 YZUH15 YZUH18 YZUH21 YZUI00 YZUI03 YZUI06 YZUI09 YZUI12 YZUI15 YZUI18 YZUI21 YZUJ00