WMO Headings for National Blend of Models Products
(Effective with implementation of NBM V3.0 on or about July 11, 2017)

WMO headings have the format of T1T2A1A2ii CCCC

1. The originating center IDs (CCCC) for National Blend of Models products are **KWE**[A-L] indicating that they originate from the Meteorological Development Laboratory.

    Values of CCCC are assigned to each geographic region as follows:
    KWEA and **KWEB** = CONUS + Oceanic
    KWEC and **KWED** = Alaska
    KWEE and **KWEF** = Hawaii
    KWEG and **KWEH** = Puerto Rico
    KWEI and **KWEJ** = Guam (future use)
    KWEK and **KWEL** = American Samoa (future use)

2. The T1 represents the data type designator:
    Y = GRIB2 products for all regions except Oceanic
    O = GRIB2 products for Oceanic region

3. The T2 represents the weather element type designator. When feasible, these values match those used for the NDFD WMO headers.   If relevant, A1 indicates probability category.

    Values of T2 for CCCC=**KWEA, KWEC, KWEE and KWEG**:
    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 = Probability of a Thunderstorm (6-h)
    K = Unassigned
    L = Unassigned
    M = Precipitation Potential Index
    N = Unassigned
    O = Unassigned
    P = Visibility
    Q = Ceiling Height
    R = Relative Humidity (derived via GFE Smart Inits – no SBN routing)
    S = Unassigned
    T = Apparent Temperature (derived via GFE Smart Inits – no SBN routing)
    U = Unassigned
    V = Quantitative Precipitation (1-h)
    W = Wind gusts

X = Unassigned
Y = Probability of a Thunderstorm (3-h)
Z = Unassigned

Values of T2 for CCCC=**KWEB, KWED, KWEF, and KWEH**:
A = Conditional Probability of Freezing Rain
B = Conditional Probability of Snow
C = Conditional Probability of Rain
D = Conditional Probability of Sleet/Pellets
E = Probability of Refreeze Sleet
F = Unassigned
G = Maximum Relative Humidity (12-h)
H = Minimum Relative Humidity (12-h)
I = Probability of Cloud Ice Present
J = Unassigned
K = Unassigned
L = Unassigned
M = Unassigned
N = Bourgouin Negative Energy Low Level
O = Unassigned
P = Bourgouin Positive Energy Aloft
Q = Cloud Base Height
R = Snow-Liquid Ratio
S = Snow Level
T = Unassigned
U = Unassigned
V = Unassigned
W = Maximum Wet-Bulb Temperature Aloft
X = Unassigned
Y = Unassigned
Z = Unassigned

4. The A1 indicates the probability level or category
A = Mean
B = 5th percentile or category 1 probability
C = 10th percentile or category 2 probability
D = 20th percentile or category 3 probability
E = 30th percentile or category 4 probability
F = 40th percentile or category 5 probability
G = 50th percentile or category 6 probability
H = 60th percentile or category 7 probability
I = 70th percentile or category 8 probability
J = 80th percentile or category 9 probability
K = 90th percentile or category 10 probability
L = 95th percentile or category 11 probability
M = 25th percentile

N = 75th percentile
O= Unassigned
P = Unassigned
Q = Unassigned
R = Unassigned
S = Unassigned
T = Unassigned
U = Unassigned
V = Unassigned
W = Unassigned
X = Unassigned
Y = Unassigned
Z = Unassigned

5. A2 indicates the reference time designator:

A = Day 0	E = Day 4	I = Day 8	M = Day 12	Q = Day 16
B = Day 1	F = Day 5	J = Day 9	N = Day 13	R = Day 17
C = Day 2	G = Day 6	K = Day 10	O = Day 14	
D = Day 3	H = Day 7	L = Day 11	P = Day 15	

6. The ii field indicates the hour of the day:

24 = hour 00	12 = hour 12
01 = hour 01	13 = hour 13
02 = hour 02	14 = hour 14
03 = hour 03	15 = hour 15
04 = hour 04	16 = hour 16
05 = hour 05	17 = hour 17
06 = hour 06	18 = hour 18
07 = hour 07	19 = hour 19
08 = hour 08	20 = hour 20
09 = hour 09	21 = hour 21
10 = hour 10	22 = hour 22
11 = hour 11	23 = hour 23

Note:
A2ii = A24 indicates a valid time of 00z on Day 1 (not Day 0),
A2ii = B24 indicates a valid time of 00z on Day 2 (not Day 1),
A2ii = C24 indicates a valid time of 00z on Day 3 (not Day 2), and so on.