WMO Headers for GFS-LAMP products
OSIP LAMP 05-059

Note: This document has been updated (06/2019) to add the WMO header and AWIPS identifier for the Extended text bulletin for 26-38 hour projections.

WMO headers have the format of $T_1T_2A_1A_2\text{ii} \text{CCC}$

The $\text{CCC}$ for all GFS-LAMP products is K\text{WNO}.

A. WMO Headers for LAMP station guidance in ASCII text format

1. The $T_1$ designates the data type. For the GFS-LAMP ASCII text product $T_1$ is $\text{F}$ for Forecast.

2. The $T_2$ further designates the data type. For the GFS-LAMP ASCII text product $T_2$ is $\text{O}$ for Guidance. For the Extended GFS-LAMP ASCII text product $T_2$ is $\text{E}$ for Extended Guidance.

3. The $A_1A_2$ designates the geographical area. For the GFS-LAMP ASCII text product the $A_1A_2$ is $\text{US}$ for the United States of America.

4. The $\text{ii}$ for the GFS-LAMP ASCII text product is $11$ for global distribution. Data from stations in all regions of the United States of America will be contained in this ASCII text bulletin.

5. GFS-LAMP ASCII text product header = FOUS11KWNO

6. Extended GFS-LAMP ASCII text product header = FEUS11KWNO

7. The GFS-LAMP ASCII text product AWIPS identifier will be LAVUSA.

8. The Extended GFS-LAMP ASCII text product AWIPS identifier will be LEVUSA.

B. WMO Headers for LAMP station guidance in BUFR format

1. The $T_1$ designates the data type. For the GFS-LAMP BUFR product $T_1$ is $\text{J}$ for Forecast Information - BUFR.

2. The $T_2$ further designates the data type. For the GFS-LAMP BUFR product $T_2$ is $\text{S}$ for surface/sea level.

3. The $A_1$ further designates the data type. For the GFS-LAMP BUFR product the $A_1$ is $\text{M}$ for Land based main synoptic reports.

4. The $A_2$ further designates the reference time. For the GFS-LAMP BUFR product the $A_2$ is $\text{F}$ for 30 hours forecast.

5. The $\text{ii}$ designates the geographical region of the data. For the GFS-LAMP BUFR product the $\text{ii}$ is as follows:

   i. 10 Pacific Region
   ii. 11 Northeast Region
iii. 12 Southeast Region
iv. 13 North Central Region
v. 14 South Central Region
vi. 15 Rocky Mountains Region
vii. 16 West Coast Region
viii. 17 Alaska

6. GFS-LAMP BUFR product headers:
   i. JSMF10 KWNO
   ii. JSMF11 KWNO
   iii. JSMF12 KWNO
   iv. JSMF13 KWNO
   v. JSMF14 KWNO
   vi. JSMF15 KWNO
   vii. JSMF16 KWNO
   viii. JSMF17 KWNO

C. WMO Headers for LAMP gridded guidance in GRIB2 format

1. The T1 for GFS-LAMP 2-h convection and lightning products is L.
The T1 for GFS-LAMP 1-h convection and lightning products is Y.

2. The T2 designates the weather element type. The following values are used for the GFS-
   LAMP GRIB2 product:
   i. A = 2-hr probability of lightning on a 5-km grid
   ii. B = 2-hr categorical forecasts (yes/no) of lightning occurring on a 5-km grid
   iii. C = 2-hr probability of lightning on a 2.5-km grid
   iv. D = 2-hr categorical forecast potential (none/low/medium/high) of lightning
     occurring on a 2.5-km grid
   v. E = 2-hr probability of convection on a 2.5-km grid
   vi. F = 2-hr categorical forecast potential (none/low/medium/high) of convection
     occurring on a 2.5-km grid
   vii. G = 1-hr probability of lightning on a 2.5-km grid
   viii. H = 1-hr categorical forecast potential (none/low/medium/high) of lightning
      occurring on a 2.5-km grid
   ix. I = 1-hr probability of convection on a 2.5-km grid
   x. J = 1-hr categorical forecast potential (none/low/medium/high) of convection
     occurring on a 2.5-km grid

3. The A1 designates the geographical area. For the GFS-LAMP product in GRIB2 format,
   the A1 is U for CONUS.

4. The A2 and the ii follow the convention established in the NDFD. These three characters
   together represent the day and hour (UTC) for which the product is valid. Specifically, for
   LAMP, the gridded guidance is for thunderstorms or convection in a 1-hr or 2-hr period,
   and the valid time represents the end of the period. For example, a GFS-LAMP 2-hr
   thunderstorm probability valid from 10-12 UTC is said to be valid at 12 UTC.

   The LAMP thunderstorm and convection guidance in a 2-h period is valid for every 2-h
   period ending in the first 2-6 hours after issuance (3-7 hours after the cycle time), and
   every subsequent 2-h period which ends on an even UTC hour. Please see
   http://www.nws.noaa.gov/mdl/gfs/lamp/docs/Tstorm_proj_schematic.pdf for a visual
   depiction of the valid periods.
The LAMP convection and lightning guidance in a 1-h period is valid for every 1-h period ending 1-25 hours after the cycle time (is this right?)

i. In general, the following convention for the A and the ii is used for the GFS-LAMP gridded 2-h thunderstorm products:
   1. A = Day 0; ii = UTC hour (21-23)
   2. B = Day 1; ii = UTC hour (00-23)
   3. C = Day 2; ii = UTC hour (00, 02, 04, 06, 08, 10, 12, 14, 16, 18)

ii. The following convention for the A and the ii is used for the GFS-LAMP gridded 1-h convection and lightning products:
   1. A = Day 0; ii = UTC hour (23-24)
   2. B = Day 1; ii = UTC hour (01-24)
   3. C = Day 2; ii = UTC hour (01-22)

iii. Listed below are representations of the WMO headers for the LAMP GRIB2 2-h thunderstorm products. All headers have CCCC of KWNO, and T is as indicated above:

   1. Projections from the 00 UTC GFS-LAMP cycle:
      a. 2-h period ending at 03 UTC: L\text{T}_2UB03
      b. 2-h period ending at 04 UTC: L\text{T}_2UB04
      c. 2-h period ending at 05 UTC: L\text{T}_2UB05
      d. 2-h period ending at 06 UTC: L\text{T}_2UB06
      e. 2-h period ending at 07 UTC: L\text{T}_2UB07
      f. 2-h period ending at 08 UTC: L\text{T}_2UB08
      g. 2-h period ending at 10 UTC: L\text{T}_2UB10
      h. 2-h period ending at 12 UTC: L\text{T}_2UB12
      i. 2-h period ending at 14 UTC: L\text{T}_2UB14
      j. 2-h period ending at 16 UTC: L\text{T}_2UB16
      k. 2-h period ending at 18 UTC: L\text{T}_2UB18
      l. 2-h period ending at 20 UTC: L\text{T}_2UB20
      m. 2-h period ending at 22 UTC: L\text{T}_2UB22
      n. 2-h period ending at 00 UTC: L\text{T}_2UC00

   2. Projections from the 01 UTC GFS-LAMP cycle:
      a. 2-h period ending at 04 UTC: L\text{T}_2UB04
      b. 2-h period ending at 05 UTC: L\text{T}_2UB05
      c. 2-h period ending at 06 UTC: L\text{T}_2UB06
      d. 2-h period ending at 07 UTC: L\text{T}_2UB07
      e. 2-h period ending at 08 UTC: L\text{T}_2UB08
      f. 2-h period ending at 10 UTC: L\text{T}_2UB10
      g. 2-h period ending at 12 UTC: L\text{T}_2UB12
      h. 2-h period ending at 14 UTC: L\text{T}_2UB14
      i. 2-h period ending at 16 UTC: L\text{T}_2UB16
      j. 2-h period ending at 18 UTC: L\text{T}_2UB18
      k. 2-h period ending at 20 UTC: L\text{T}_2UB20
      l. 2-h period ending at 22 UTC: L\text{T}_2UB22
      m. 2-h period ending at 00 UTC: L\text{T}_2UC00
      n. 2-h period ending at 02 UTC: L\text{T}_2UC02

   3. Projections from the 02 UTC GFS-LAMP cycle:
      a. 2-h period ending at 05 UTC: L\text{T}_2UB05
      b. 2-h period ending at 06 UTC: L\text{T}_2UB06
      c. 2-h period ending at 07 UTC: L\text{T}_2UB07
      d. 2-h period ending at 08 UTC: L\text{T}_2UB08
      e. 2-h period ending at 09 UTC: L\text{T}_2UB09
f. 2-h period ending at 10 UTC: LT2UB10

g. 2-h period ending at 12 UTC: LT2UB12

h. 2-h period ending at 14 UTC: LT2UB14

i. 2-h period ending at 16 UTC: LT2UB16

j. 2-h period ending at 18 UTC: LT2UB18

k. 2-h period ending at 20 UTC: LT2UB20

l. 2-h period ending at 22 UTC: LT2UB22

m. 2-h period ending at 00 UTC: LT2UC00

n. 2-h period ending at 02 UTC: LT2UC02

4. Projections from the 03 UTC GFS-LAMP cycle:

a. 2-h period ending at 06 UTC: LT2UB06

b. 2-h period ending at 07 UTC: LT2UB07

c. 2-h period ending at 08 UTC: LT2UB08

d. 2-h period ending at 09 UTC: LT2UB09

e. 2-h period ending at 10 UTC: LT2UB10

f. 2-h period ending at 12 UTC: LT2UB12

g. 2-h period ending at 14 UTC: LT2UB14

h. 2-h period ending at 16 UTC: LT2UB16

i. 2-h period ending at 18 UTC: LT2UB18

j. 2-h period ending at 20 UTC: LT2UB20

k. 2-h period ending at 22 UTC: LT2UB22

l. 2-h period ending at 00 UTC: LT2UC00

m. 2-h period ending at 02 UTC: LT2UC02

n. 2-h period ending at 04 UTC: LT2UC04

5. Projections from the 04 UTC GFS-LAMP cycle:

a. 2-h period ending at 07 UTC: LT2UB07

b. 2-h period ending at 08 UTC: LT2UB08

c. 2-h period ending at 09 UTC: LT2UB09

d. 2-h period ending at 10 UTC: LT2UB10

e. 2-h period ending at 11 UTC: LT2UB11

f. 2-h period ending at 12 UTC: LT2UB12

g. 2-h period ending at 14 UTC: LT2UB14

h. 2-h period ending at 16 UTC: LT2UB16

i. 2-h period ending at 18 UTC: LT2UB18

j. 2-h period ending at 20 UTC: LT2UB20

k. 2-h period ending at 22 UTC: LT2UB22

l. 2-h period ending at 00 UTC: LT2UC00

m. 2-h period ending at 02 UTC: LT2UC02

n. 2-h period ending at 04 UTC: LT2UC04

6. Projections from the 05 UTC GFS-LAMP cycle:

a. 2-h period ending at 08 UTC: LT2UB08

b. 2-h period ending at 09 UTC: LT2UB09

c. 2-h period ending at 10 UTC: LT2UB10

d. 2-h period ending at 11 UTC: LT2UB11

e. 2-h period ending at 12 UTC: LT2UB12

f. 2-h period ending at 14 UTC: LT2UB14

g. 2-h period ending at 16 UTC: LT2UB16

h. 2-h period ending at 18 UTC: LT2UB18

i. 2-h period ending at 20 UTC: LT2UB20

j. 2-h period ending at 22 UTC: LT2UB22

k. 2-h period ending at 00 UTC: LT2UC00

l. 2-h period ending at 02 UTC: LT2UC02

m. 2-h period ending at 04 UTC: LT2UC04

n. 2-h period ending at 06 UTC: LT2UC06

7. Projections from the 06 UTC GFS-LAMP cycle:

a. 2-h period ending at 09 UTC: LT2UB09
b. 2-h period ending at 10 UTC: LT\textsubscript{2}UB10

c. 2-h period ending at 11 UTC: LT\textsubscript{2}UB11

d. 2-h period ending at 12 UTC: LT\textsubscript{2}UB12

e. 2-h period ending at 13 UTC: LT\textsubscript{2}UB13

f. 2-h period ending at 14 UTC: LT\textsubscript{2}UB14

g. 2-h period ending at 16 UTC: LT\textsubscript{2}UB16

h. 2-h period ending at 18 UTC: LT\textsubscript{2}UB18

i. 2-h period ending at 20 UTC: LT\textsubscript{2}UB20

j. 2-h period ending at 22 UTC: LT\textsubscript{2}UB22

k. 2-h period ending at 00 UTC: LT\textsubscript{2}UC00

l. 2-h period ending at 02 UTC: LT\textsubscript{2}UC02

m. 2-h period ending at 04 UTC: LT\textsubscript{2}UC04

n. 2-h period ending at 06 UTC: LT\textsubscript{2}UC06

8. Projections from the 07 UTC GFS-LAMP cycle:

a. 2-h period ending at 10 UTC: LT\textsubscript{2}UB10

b. 2-h period ending at 11 UTC: LT\textsubscript{2}UB11

c. 2-h period ending at 12 UTC: LT\textsubscript{2}UB12

d. 2-h period ending at 13 UTC: LT\textsubscript{2}UB13

e. 2-h period ending at 14 UTC: LT\textsubscript{2}UB14

f. 2-h period ending at 16 UTC: LT\textsubscript{2}UB16

g. 2-h period ending at 18 UTC: LT\textsubscript{2}UB18

h. 2-h period ending at 20 UTC: LT\textsubscript{2}UB20

i. 2-h period ending at 22 UTC: LT\textsubscript{2}UB22

j. 2-h period ending at 00 UTC: LT\textsubscript{2}UC00

k. 2-h period ending at 02 UTC: LT\textsubscript{2}UC02

l. 2-h period ending at 04 UTC: LT\textsubscript{2}UC04

m. 2-h period ending at 06 UTC: LT\textsubscript{2}UC06

n. 2-h period ending at 08 UTC: LT\textsubscript{2}UC08

9. Projections from the 08 UTC GFS-LAMP cycle:

a. 2-h period ending at 11 UTC: LT\textsubscript{2}UB11

b. 2-h period ending at 12 UTC: LT\textsubscript{2}UB12

c. 2-h period ending at 13 UTC: LT\textsubscript{2}UB13

d. 2-h period ending at 14 UTC: LT\textsubscript{2}UB14

e. 2-h period ending at 15 UTC: LT\textsubscript{2}UB15

f. 2-h period ending at 16 UTC: LT\textsubscript{2}UB16

g. 2-h period ending at 18 UTC: LT\textsubscript{2}UB18

h. 2-h period ending at 20 UTC: LT\textsubscript{2}UB20

i. 2-h period ending at 22 UTC: LT\textsubscript{2}UB22

j. 2-h period ending at 00 UTC: LT\textsubscript{2}UC00

k. 2-h period ending at 02 UTC: LT\textsubscript{2}UC02

l. 2-h period ending at 04 UTC: LT\textsubscript{2}UC04

m. 2-h period ending at 06 UTC: LT\textsubscript{2}UC06

n. 2-h period ending at 08 UTC: LT\textsubscript{2}UC08

10. Projections from the 09 UTC GFS-LAMP cycle:

a. 2-h period ending at 12 UTC: LT\textsubscript{2}UB12

b. 2-h period ending at 13 UTC: LT\textsubscript{2}UB13

c. 2-h period ending at 14 UTC: LT\textsubscript{2}UB14

d. 2-h period ending at 15 UTC: LT\textsubscript{2}UB15

e. 2-h period ending at 16 UTC: LT\textsubscript{2}UB16

f. 2-h period ending at 18 UTC: LT\textsubscript{2}UB18

g. 2-h period ending at 20 UTC: LT\textsubscript{2}UB20

h. 2-h period ending at 22 UTC: LT\textsubscript{2}UB22

i. 2-h period ending at 00 UTC: LT\textsubscript{2}UC00

j. 2-h period ending at 02 UTC: LT\textsubscript{2}UC02

k. 2-h period ending at 04 UTC: LT\textsubscript{2}UC04

l. 2-h period ending at 06 UTC: LT\textsubscript{2}UC06

- 5 -
m. 2-h period ending at 08 UTC: LT$_2$UC08
n. 2-h period ending at 10 UTC: LT$_2$UC10

11. Projections from the 10 UTC GFS-LAMP cycle:
a. 2-h period ending at 13 UTC: LT$_2$UB13
b. 2-h period ending at 14 UTC: LT$_2$UB14
c. 2-h period ending at 15 UTC: LT$_2$UB15
d. 2-h period ending at 16 UTC: LT$_2$UB16
e. 2-h period ending at 17 UTC: LT$_2$UB17
f. 2-h period ending at 18 UTC: LT$_2$UB18
g. 2-h period ending at 20 UTC: LT$_2$UB20
h. 2-h period ending at 22 UTC: LT$_2$UB22
i. 2-h period ending at 00 UTC: LT$_2$UC00
j. 2-h period ending at 02 UTC: LT$_2$UC02
k. 2-h period ending at 04 UTC: LT$_2$UC04
l. 2-h period ending at 06 UTC: LT$_2$UC06
m. 2-h period ending at 08 UTC: LT$_2$UC08
n. 2-h period ending at 10 UTC: LT$_2$UC10

12. Projections from the 11 UTC GFS-LAMP cycle:
a. 2-h period ending at 14 UTC: LT$_2$UB14
b. 2-h period ending at 15 UTC: LT$_2$UB15
c. 2-h period ending at 16 UTC: LT$_2$UB16
d. 2-h period ending at 17 UTC: LT$_2$UB17
e. 2-h period ending at 18 UTC: LT$_2$UB18
f. 2-h period ending at 20 UTC: LT$_2$UB20
g. 2-h period ending at 22 UTC: LT$_2$UB22
h. 2-h period ending at 00 UTC: LT$_2$UC00
i. 2-h period ending at 02 UTC: LT$_2$UC02
j. 2-h period ending at 04 UTC: LT$_2$UC04
k. 2-h period ending at 06 UTC: LT$_2$UC06
l. 2-h period ending at 08 UTC: LT$_2$UC08
m. 2-h period ending at 10 UTC: LT$_2$UC10
n. 2-h period ending at 12 UTC: LT$_2$UC12

13. Projections from the 12 UTC GFS-LAMP cycle:
a. 2-h period ending at 15 UTC: LT$_2$UB15
b. 2-h period ending at 16 UTC: LT$_2$UB16
c. 2-h period ending at 17 UTC: LT$_2$UB17
d. 2-h period ending at 18 UTC: LT$_2$UB18
e. 2-h period ending at 19 UTC: LT$_2$UB19
f. 2-h period ending at 20 UTC: LT$_2$UB20
g. 2-h period ending at 22 UTC: LT$_2$UB22
h. 2-h period ending at 00 UTC: LT$_2$UC00
i. 2-h period ending at 02 UTC: LT$_2$UC02
j. 2-h period ending at 04 UTC: LT$_2$UC04
k. 2-h period ending at 06 UTC: LT$_2$UC06
l. 2-h period ending at 08 UTC: LT$_2$UC08
m. 2-h period ending at 10 UTC: LT$_2$UC10
n. 2-h period ending at 12 UTC: LT$_2$UC12

14. Projections from the 13 UTC GFS-LAMP cycle:
a. 2-h period ending at 16 UTC: LT$_2$UB16
b. 2-h period ending at 17 UTC: LT$_2$UB17
c. 2-h period ending at 18 UTC: LT$_2$UB18
d. 2-h period ending at 19 UTC: LT$_2$UB19
e. 2-h period ending at 20 UTC: LT$_2$UB20
f. 2-h period ending at 22 UTC: LT$_2$UB22
g. 2-h period ending at 00 UTC: LT$_2$UC00
h. 2-h period ending at 02 UTC: LT$_2$UC02
i. 2-h period ending at 04 UTC: LT2UC04
j. 2-h period ending at 06 UTC: LT2UC06
k. 2-h period ending at 08 UTC: LT2UC08
l. 2-h period ending at 10 UTC: LT2UC10
m. 2-h period ending at 12 UTC: LT2UC12
n. 2-h period ending at 14 UTC: LT2UC14

15. Projections from the 14 UTC GFS-LAMP cycle:
a. 2-h period ending at 17 UTC: LT2UB17
b. 2-h period ending at 18 UTC: LT2UB18
c. 2-h period ending at 19 UTC: LT2UB19
d. 2-h period ending at 20 UTC: LT2UB20
e. 2-h period ending at 21 UTC: LT2UB21
f. 2-h period ending at 22 UTC: LT2UB22
g. 2-h period ending at 00 UTC: LT2UC00
h. 2-h period ending at 02 UTC: LT2UC02
i. 2-h period ending at 04 UTC: LT2UC04
j. 2-h period ending at 06 UTC: LT2UC06
k. 2-h period ending at 08 UTC: LT2UC08
l. 2-h period ending at 10 UTC: LT2UC10
m. 2-h period ending at 12 UTC: LT2UC12
n. 2-h period ending at 14 UTC: LT2UC14

16. Projections from the 15 UTC GFS-LAMP cycle:
a. 2-h period ending at 18 UTC: LT2UB18
b. 2-h period ending at 19 UTC: LT2UB19
c. 2-h period ending at 20 UTC: LT2UB20
d. 2-h period ending at 21 UTC: LT2UB21
e. 2-h period ending at 22 UTC: LT2UB22
f. 2-h period ending at 00 UTC: LT2UC00
g. 2-h period ending at 02 UTC: LT2UC02
h. 2-h period ending at 04 UTC: LT2UC04
i. 2-h period ending at 06 UTC: LT2UC06
j. 2-h period ending at 08 UTC: LT2UC08
k. 2-h period ending at 10 UTC: LT2UC10
l. 2-h period ending at 12 UTC: LT2UC12
m. 2-h period ending at 14 UTC: LT2UC14
n. 2-h period ending at 16 UTC: LT2UC16

17. Projections from the 16 UTC GFS-LAMP cycle:
a. 2-h period ending at 19 UTC: LT2UB19
b. 2-h period ending at 20 UTC: LT2UB20
c. 2-h period ending at 21 UTC: LT2UB21
d. 2-h period ending at 22 UTC: LT2UB22
e. 2-h period ending at 23 UTC: LT2UB23
f. 2-h period ending at 00 UTC: LT2UC00
g. 2-h period ending at 02 UTC: LT2UC02
h. 2-h period ending at 04 UTC: LT2UC04
i. 2-h period ending at 06 UTC: LT2UC06
j. 2-h period ending at 08 UTC: LT2UC08
k. 2-h period ending at 10 UTC: LT2UC10
l. 2-h period ending at 12 UTC: LT2UC12
m. 2-h period ending at 14 UTC: LT2UC14
n. 2-h period ending at 16 UTC: LT2UC16

18. Projections from the 17 UTC GFS-LAMP cycle:
a. 2-h period ending at 20 UTC: LT2UB20
b. 2-h period ending at 21 UTC: LT2UB21
c. 2-h period ending at 22 UTC: LT2UB22
d. 2-h period ending at 23 UTC: LT2UB23
e. 2-h period ending at 00 UTC: LT2UC00
f. 2-h period ending at 02 UTC: LT2UC02
g. 2-h period ending at 04 UTC: LT2UC04
h. 2-h period ending at 06 UTC: LT2UC06
i. 2-h period ending at 08 UTC: LT2UC08
j. 2-h period ending at 10 UTC: LT2UC10
k. 2-h period ending at 12 UTC: LT2UC12
l. 2-h period ending at 14 UTC: LT2UC14
m. 2-h period ending at 16 UTC: LT2UC16
n. 2-h period ending at 18 UTC: LT2UC18

19. Projections from the 18 UTC GFS-LAMP cycle:
a. 2-h period ending at 21 UTC: LT2UB21
b. 2-h period ending at 22 UTC: LT2UB22
c. 2-h period ending at 23 UTC: LT2UB23
d. 2-h period ending at 00 UTC: LT2UC00
e. 2-h period ending at 01 UTC: LT2UC01
f. 2-h period ending at 02 UTC: LT2UC02
g. 2-h period ending at 04 UTC: LT2UC04
h. 2-h period ending at 06 UTC: LT2UC06
i. 2-h period ending at 08 UTC: LT2UC08
j. 2-h period ending at 10 UTC: LT2UC10
k. 2-h period ending at 12 UTC: LT2UC12
l. 2-h period ending at 14 UTC: LT2UC14
m. 2-h period ending at 16 UTC: LT2UC16
n. 2-h period ending at 18 UTC: LT2UC18

20. Projections from the 19 UTC GFS-LAMP cycle:
a. 2-h period ending at 22 UTC: LT2UB22
b. 2-h period ending at 23 UTC: LT2UB23
c. 2-h period ending at 00 UTC: LT2UC00
d. 2-h period ending at 01 UTC: LT2UC01
e. 2-h period ending at 02 UTC: LT2UC02
f. 2-h period ending at 04 UTC: LT2UC04
g. 2-h period ending at 06 UTC: LT2UC06
h. 2-h period ending at 08 UTC: LT2UC08
i. 2-h period ending at 10 UTC: LT2UC10
j. 2-h period ending at 12 UTC: LT2UC12
k. 2-h period ending at 14 UTC: LT2UC14
l. 2-h period ending at 16 UTC: LT2UC16
m. 2-h period ending at 18 UTC: LT2UC18
n. 2-h period ending at 20 UTC: LT2UC20

21. Projections from the 20 UTC GFS-LAMP cycle:
a. 2-h period ending at 23 UTC: LT2UB23
b. 2-h period ending at 00 UTC: LT2UC00
c. 2-h period ending at 01 UTC: LT2UC01
d. 2-h period ending at 02 UTC: LT2UC02
e. 2-h period ending at 03 UTC: LT2UC03
f. 2-h period ending at 04 UTC: LT2UC04
g. 2-h period ending at 06 UTC: LT2UC06
h. 2-h period ending at 08 UTC: LT2UC08
i. 2-h period ending at 10 UTC: LT2UC10
j. 2-h period ending at 12 UTC: LT2UC12
k. 2-h period ending at 14 UTC: LT2UC14
l. 2-h period ending at 16 UTC: LT2UC16
m. 2-h period ending at 18 UTC: LT2UC18
n. 2-h period ending at 20 UTC: LT2UC20

22. Projections from the 21 UTC GFS-LAMP cycle:
a. 2-h period ending at 00 UTC: LT2UB00
b. 2-h period ending at 01 UTC: LT2UB01
c. 2-h period ending at 02 UTC: LT2UB02
d. 2-h period ending at 03 UTC: LT2UB03
e. 2-h period ending at 04 UTC: LT2UB04
f. 2-h period ending at 06 UTC: LT2UB06
g. 2-h period ending at 08 UTC: LT2UB08
h. 2-h period ending at 10 UTC: LT2UB10
i. 2-h period ending at 12 UTC: LT2UB12
j. 2-h period ending at 14 UTC: LT2UB14
k. 2-h period ending at 16 UTC: LT2UB16
l. 2-h period ending at 18 UTC: LT2UB18
m. 2-h period ending at 20 UTC: LT2UB20
n. 2-h period ending at 22 UTC: LT2UB22

23. Projections from the 22 UTC GFS-LAMP cycle:
   a. 2-h period ending at 01 UTC: LT2UB01
   b. 2-h period ending at 02 UTC: LT2UB02
   c. 2-h period ending at 03 UTC: LT2UB03
   d. 2-h period ending at 04 UTC: LT2UB04
   e. 2-h period ending at 05 UTC: LT2UB05
   f. 2-h period ending at 06 UTC: LT2UB06
   g. 2-h period ending at 08 UTC: LT2UB08
   h. 2-h period ending at 10 UTC: LT2UB10
   i. 2-h period ending at 12 UTC: LT2UB12
   j. 2-h period ending at 14 UTC: LT2UB14
   k. 2-h period ending at 16 UTC: LT2UB16
   l. 2-h period ending at 18 UTC: LT2UB18
   m. 2-h period ending at 20 UTC: LT2UB20
   n. 2-h period ending at 22 UTC: LT2UB22

24. Projections from the 23 UTC GFS-LAMP cycle:
   a. 2-h period ending at 02 UTC: LT2UB02
   b. 2-h period ending at 03 UTC: LT2UB03
   c. 2-h period ending at 04 UTC: LT2UB04
   d. 2-h period ending at 05 UTC: LT2UB05
   e. 2-h period ending at 06 UTC: LT2UB06
   f. 2-h period ending at 08 UTC: LT2UB08
   g. 2-h period ending at 10 UTC: LT2UB10
   h. 2-h period ending at 12 UTC: LT2UB12
   i. 2-h period ending at 14 UTC: LT2UB14
   j. 2-h period ending at 16 UTC: LT2UB16
   k. 2-h period ending at 18 UTC: LT2UB18
   l. 2-h period ending at 20 UTC: LT2UB20
   m. 2-h period ending at 22 UTC: LT2UB22
   n. 2-h period ending at 00 UTC: LT2UB00

iv. Listed below are representations of the WMO headers for the LAMP GRIB2 1-h convection and lightning products. All headers have CCCC of KWNO, and T2 is as indicated above:
   1. Projections from the 00 UTC GFS-LAMP cycle:
      a. 1-h period ending at 01 UTC: YT2UB01
      b. 1-h period ending at 02 UTC: YT2UB02
      c. 1-h period ending at 03 UTC: YT2UB03
      d. 1-h period ending at 04 UTC: YT2UB04
      e. 1-h period ending at 05 UTC: YT2UB05
      f. 1-h period ending at 06 UTC: YT2UB06
<table>
<thead>
<tr>
<th>Period</th>
<th>Projection</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1-h period ending at 07 UTC:</strong></td>
<td>YT2UB07</td>
</tr>
<tr>
<td><strong>1-h period ending at 08 UTC:</strong></td>
<td>YT2UB08</td>
</tr>
<tr>
<td><strong>1-h period ending at 09 UTC:</strong></td>
<td>YT2UB09</td>
</tr>
<tr>
<td><strong>1-h period ending at 10 UTC:</strong></td>
<td>YT2UB10</td>
</tr>
<tr>
<td><strong>1-h period ending at 11 UTC:</strong></td>
<td>YT2UB11</td>
</tr>
<tr>
<td><strong>1-h period ending at 12 UTC:</strong></td>
<td>YT2UB12</td>
</tr>
<tr>
<td><strong>1-h period ending at 13 UTC:</strong></td>
<td>YT2UB13</td>
</tr>
<tr>
<td><strong>1-h period ending at 14 UTC:</strong></td>
<td>YT2UB14</td>
</tr>
<tr>
<td><strong>1-h period ending at 15 UTC:</strong></td>
<td>YT2UB15</td>
</tr>
<tr>
<td><strong>1-h period ending at 16 UTC:</strong></td>
<td>YT2UB16</td>
</tr>
<tr>
<td><strong>1-h period ending at 17 UTC:</strong></td>
<td>YT2UB17</td>
</tr>
<tr>
<td><strong>1-h period ending at 18 UTC:</strong></td>
<td>YT2UB18</td>
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<tr>
<td><strong>1-h period ending at 19 UTC:</strong></td>
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<td><strong>1-h period ending at 20 UTC:</strong></td>
<td>YT2UB20</td>
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<tr>
<td><strong>1-h period ending at 21 UTC:</strong></td>
<td>YT2UB21</td>
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<tr>
<td><strong>1-h period ending at 22 UTC:</strong></td>
<td>YT2UB22</td>
</tr>
<tr>
<td><strong>1-h period ending at 23 UTC:</strong></td>
<td>YT2UB23</td>
</tr>
<tr>
<td><strong>1-h period ending at 00 UTC:</strong></td>
<td>YT2UB24</td>
</tr>
<tr>
<td><strong>1-h period ending at 01 UTC:</strong></td>
<td>YT2UB25</td>
</tr>
</tbody>
</table>

2. **Projections from the 01 UTC GFS-LAMP cycle:**
   - **1-h period ending at 02 UTC:** YT2UB02
   - **1-h period ending at 03 UTC:** YT2UB03
   - **1-h period ending at 04 UTC:** YT2UB04
   - **1-h period ending at 05 UTC:** YT2UB05
   - **1-h period ending at 06 UTC:** YT2UB06
   - **1-h period ending at 07 UTC:** YT2UB07
   - **1-h period ending at 08 UTC:** YT2UB08
   - **1-h period ending at 09 UTC:** YT2UB09
   - **1-h period ending at 10 UTC:** YT2UB10
   - **1-h period ending at 11 UTC:** YT2UB11
   - **1-h period ending at 12 UTC:** YT2UB12
   - **1-h period ending at 13 UTC:** YT2UB13
   - **1-h period ending at 14 UTC:** YT2UB14
   - **1-h period ending at 15 UTC:** YT2UB15
   - **1-h period ending at 16 UTC:** YT2UB16
   - **1-h period ending at 17 UTC:** YT2UB17
   - **1-h period ending at 18 UTC:** YT2UB18
   - **1-h period ending at 19 UTC:** YT2UB19
   - **1-h period ending at 20 UTC:** YT2UB20
   - **1-h period ending at 21 UTC:** YT2UB21
   - **1-h period ending at 22 UTC:** YT2UB22
   - **1-h period ending at 23 UTC:** YT2UB23
   - **1-h period ending at 00 UTC:** YT2UB24
   - **1-h period ending at 01 UTC:** YT2UC01
   - **1-h period ending at 02 UTC:** YT2UC02

3. **Projections from the 02 UTC GFS-LAMP cycle:**
   - **1-h period ending at 03 UTC:** YT2UB03
   - **1-h period ending at 04 UTC:** YT2UB04
   - **1-h period ending at 05 UTC:** YT2UB05
   - **1-h period ending at 06 UTC:** YT2UB06
   - **1-h period ending at 07 UTC:** YT2UB07
   - **1-h period ending at 08 UTC:** YT2UB08
   - **1-h period ending at 09 UTC:** YT2UB09
   - **1-h period ending at 10 UTC:** YT2UB10
   - **1-h period ending at 11 UTC:** YT2UB11
   - **1-h period ending at 12 UTC:** YT2UB12
k. 1-h period ending at 13 UTC: YT2UB13
l. 1-h period ending at 14 UTC: YT2UB14
m. 1-h period ending at 15 UTC: YT2UB15
n. 1-h period ending at 16 UTC: YT2UB16
o. 1-h period ending at 17 UTC: YT2UB17
p. 1-h period ending at 18 UTC: YT2UB18
q. 1-h period ending at 19 UTC: YT2UB19
r. 1-h period ending at 20 UTC: YT2UB20
s. 1-h period ending at 21 UTC: YT2UB21
t. 1-h period ending at 22 UTC: YT2UB22
u. 1-h period ending at 23 UTC: YT2UB23
v. 1-h period ending at 00 UTC: YT2UB24
w. 1-h period ending at 01 UTC: YT2UC01
x. 1-h period ending at 02 UTC: YT2UC02
y. 1-h period ending at 03 UTC: YT2UC03

4. Projections from the 03 UTC GFS-LAMP cycle:
a. 1-h period ending at 04 UTC: YT2UB04
b. 1-h period ending at 05 UTC: YT2UB05
c. 1-h period ending at 06 UTC: YT2UB06
d. 1-h period ending at 07 UTC: YT2UB07
e. 1-h period ending at 08 UTC: YT2UB08
f. 1-h period ending at 09 UTC: YT2UB09
g. 1-h period ending at 10 UTC: YT2UB10
h. 1-h period ending at 11 UTC: YT2UB11
i. 1-h period ending at 12 UTC: YT2UB12
j. 1-h period ending at 13 UTC: YT2UB13
k. 1-h period ending at 14 UTC: YT2UB14
l. 1-h period ending at 15 UTC: YT2UB15
m. 1-h period ending at 16 UTC: YT2UB16
n. 1-h period ending at 17 UTC: YT2UB17
o. 1-h period ending at 18 UTC: YT2UB18
p. 1-h period ending at 19 UTC: YT2UB19
q. 1-h period ending at 20 UTC: YT2UB20
r. 1-h period ending at 21 UTC: YT2UB21
t. 1-h period ending at 22 UTC: YT2UB22
u. 1-h period ending at 23 UTC: YT2UB23
v. 1-h period ending at 00 UTC: YT2UB24
w. 1-h period ending at 01 UTC: YT2UC01
x. 1-h period ending at 02 UTC: YT2UC02
y. 1-h period ending at 03 UTC: YT2UC03

5. Projections from the 04 UTC GFS-LAMP cycle:
a. 1-h period ending at 05 UTC: YT2UB05
b. 1-h period ending at 06 UTC: YT2UB06
c. 1-h period ending at 07 UTC: YT2UB07
d. 1-h period ending at 08 UTC: YT2UB08
e. 1-h period ending at 09 UTC: YT2UB09
f. 1-h period ending at 10 UTC: YT2UB10
g. 1-h period ending at 11 UTC: YT2UB11
h. 1-h period ending at 12 UTC: YT2UB12
i. 1-h period ending at 13 UTC: YT2UB13
j. 1-h period ending at 14 UTC: YT2UB14
k. 1-h period ending at 15 UTC: YT2UB15
l. 1-h period ending at 16 UTC: YT2UB16
m. 1-h period ending at 17 UTC: YT2UB17
n. 1-h period ending at 18 UTC: YT2UB18
6. Projections from the 05 UTC GFS-LAMP cycle:
   a. 1-h period ending at 06 UTC: YT:UB06
   b. 1-h period ending at 07 UTC: YT:UB07
   c. 1-h period ending at 08 UTC: YT:UB08
   d. 1-h period ending at 09 UTC: YT:UB09
   e. 1-h period ending at 10 UTC: YT:UB10
   f. 1-h period ending at 11 UTC: YT:UB11
   g. 1-h period ending at 12 UTC: YT:UB12
   h. 1-h period ending at 13 UTC: YT:UB13
   i. 1-h period ending at 14 UTC: YT:UB14
   j. 1-h period ending at 15 UTC: YT:UB15
   k. 1-h period ending at 16 UTC: YT:UB16
   l. 1-h period ending at 17 UTC: YT:UB17
   m. 1-h period ending at 18 UTC: YT:UB18
   n. 1-h period ending at 19 UTC: YT:UB19
   o. 1-h period ending at 20 UTC: YT:UB20
   p. 1-h period ending at 21 UTC: YT:UB21
   q. 1-h period ending at 22 UTC: YT:UB22
   r. 1-h period ending at 23 UTC: YT:UB23
   s. 1-h period ending at 00 UTC: YT:UB24
   t. 1-h period ending at 01 UTC: YT:UC01
   u. 1-h period ending at 02 UTC: YT:UC02
   v. 1-h period ending at 03 UTC: YT:UC03
   w. 1-h period ending at 04 UTC: YT:UC04
   x. 1-h period ending at 05 UTC: YT:UC05

7. Projections from the 06 UTC GFS-LAMP cycle:
   a. 1-h period ending at 07 UTC: YT:UB07
   b. 1-h period ending at 08 UTC: YT:UB08
   c. 1-h period ending at 09 UTC: YT:UB09
   d. 1-h period ending at 10 UTC: YT:UB10
   e. 1-h period ending at 11 UTC: YT:UB11
   f. 1-h period ending at 12 UTC: YT:UB12
   g. 1-h period ending at 13 UTC: YT:UB13
   h. 1-h period ending at 14 UTC: YT:UB14
   i. 1-h period ending at 15 UTC: YT:UB15
   j. 1-h period ending at 16 UTC: YT:UB16
   k. 1-h period ending at 17 UTC: YT:UB17
   l. 1-h period ending at 18 UTC: YT:UB18
   m. 1-h period ending at 19 UTC: YT:UB19
   n. 1-h period ending at 20 UTC: YT:UB20
   o. 1-h period ending at 21 UTC: YT:UB21
   p. 1-h period ending at 22 UTC: YT:UB22
   q. 1-h period ending at 23 UTC: YT:UB23
   r. 1-h period ending at 00 UTC: YT:UB24
s. 1-h period ending at 01 UTC: YT2UC01
t. 1-h period ending at 02 UTC: YT2UC02
u. 1-h period ending at 03 UTC: YT2UC03
v. 1-h period ending at 04 UTC: YT2UC04
w. 1-h period ending at 05 UTC: YT2UC05
x. 1-h period ending at 06 UTC: YT2UC06
y. 1-h period ending at 07 UTC: YT2UC07

8. Projections from the 07 UTC GFS-LAMP cycle:
a. 1-h period ending at 08 UTC: YT2UB08
b. 1-h period ending at 09 UTC: YT2UB09
c. 1-h period ending at 10 UTC: YT2UB10
d. 1-h period ending at 11 UTC: YT2UB11
e. 1-h period ending at 12 UTC: YT2UB12
f. 1-h period ending at 13 UTC: YT2UB13
g. 1-h period ending at 14 UTC: YT2UB14
h. 1-h period ending at 15 UTC: YT2UB15
i. 1-h period ending at 16 UTC: YT2UB16
j. 1-h period ending at 17 UTC: YT2UB17
k. 1-h period ending at 18 UTC: YT2UB18
l. 1-h period ending at 19 UTC: YT2UB19
m. 1-h period ending at 20 UTC: YT2UB20
n. 1-h period ending at 21 UTC: YT2UB21
o. 1-h period ending at 22 UTC: YT2UB22
p. 1-h period ending at 23 UTC: YT2UB23
q. 1-h period ending at 00 UTC: YT2UB24
r. 1-h period ending at 01 UTC: YT2UC01
s. 1-h period ending at 02 UTC: YT2UC02
t. 1-h period ending at 03 UTC: YT2UC03
u. 1-h period ending at 04 UTC: YT2UC04
v. 1-h period ending at 05 UTC: YT2UC05
w. 1-h period ending at 06 UTC: YT2UC06
x. 1-h period ending at 07 UTC: YT2UC07
y. 1-h period ending at 08 UTC: YT2UC08

9. Projections from the 08 UTC GFS-LAMP cycle:
a. 1-h period ending at 09 UTC: YT2UB09
b. 1-h period ending at 10 UTC: YT2UB10
c. 1-h period ending at 11 UTC: YT2UB11
d. 1-h period ending at 12 UTC: YT2UB12
e. 1-h period ending at 13 UTC: YT2UB13
f. 1-h period ending at 14 UTC: YT2UB14
g. 1-h period ending at 15 UTC: YT2UB15
h. 1-h period ending at 16 UTC: YT2UB16
i. 1-h period ending at 17 UTC: YT2UB17
j. 1-h period ending at 18 UTC: YT2UB18
k. 1-h period ending at 19 UTC: YT2UB19
l. 1-h period ending at 20 UTC: YT2UB20
m. 1-h period ending at 21 UTC: YT2UB21
n. 1-h period ending at 22 UTC: YT2UB22
o. 1-h period ending at 23 UTC: YT2UB23
p. 1-h period ending at 00 UTC: YT2UB24
q. 1-h period ending at 01 UTC: YT2UC01
r. 1-h period ending at 02 UTC: YT2UC02
s. 1-h period ending at 03 UTC: YT2UC03
t. 1-h period ending at 04 UTC: YT2UC04
u. 1-h period ending at 05 UTC: YT2UC05
v. 1-h period ending at 06 UTC: YT2UC06
w. 1-h period ending at 07 UTC: YT:UC07
x. 1-h period ending at 08 UTC: YT:UC08
y. 1-h period ending at 09 UTC: YT:UC09

10. Projections from the 09 UTC GFS-LAMP cycle:
a. 1-h period ending at 10 UTC: YT:UB10
b. 1-h period ending at 11 UTC: YT:UB11
c. 1-h period ending at 12 UTC: YT:UB12
d. 1-h period ending at 13 UTC: YT:UB13
e. 1-h period ending at 14 UTC: YT:UB14
f. 1-h period ending at 15 UTC: YT:UB15
g. 1-h period ending at 16 UTC: YT:UB16
h. 1-h period ending at 17 UTC: YT:UB17
i. 1-h period ending at 18 UTC: YT:UB18
j. 1-h period ending at 19 UTC: YT:UB19
k. 1-h period ending at 20 UTC: YT:UB20
l. 1-h period ending at 21 UTC: YT:UB21
m. 1-h period ending at 22 UTC: YT:UB22
n. 1-h period ending at 23 UTC: YT:UB23
o. 1-h period ending at 00 UTC: YT:UC01
p. 1-h period ending at 01 UTC: YT:UC02
q. 1-h period ending at 02 UTC: YT:UC03
r. 1-h period ending at 03 UTC: YT:UC04
s. 1-h period ending at 04 UTC: YT:UC05
t. 1-h period ending at 05 UTC: YT:UC06
u. 1-h period ending at 06 UTC: YT:UC07
v. 1-h period ending at 07 UTC: YT:UC08
w. 1-h period ending at 08 UTC: YT:UC09
x. 1-h period ending at 09 UTC: YT:UC10
y. 1-h period ending at 10 UTC: YT:UC11

11. Projections from the 10 UTC GFS-LAMP cycle:
a. 1-h period ending at 11 UTC: YT:UB11
b. 1-h period ending at 12 UTC: YT:UB12
c. 1-h period ending at 13 UTC: YT:UB13
d. 1-h period ending at 14 UTC: YT:UB14
e. 1-h period ending at 15 UTC: YT:UB15
f. 1-h period ending at 16 UTC: YT:UB16
g. 1-h period ending at 17 UTC: YT:UB17
h. 1-h period ending at 18 UTC: YT:UB18
i. 1-h period ending at 19 UTC: YT:UB19
j. 1-h period ending at 20 UTC: YT:UB20
k. 1-h period ending at 21 UTC: YT:UB21
l. 1-h period ending at 22 UTC: YT:UB22
m. 1-h period ending at 23 UTC: YT:UB23
n. 1-h period ending at 00 UTC: YT:UB24
o. 1-h period ending at 01 UTC: YT:UC01
p. 1-h period ending at 02 UTC: YT:UC02
q. 1-h period ending at 03 UTC: YT:UC03
r. 1-h period ending at 04 UTC: YT:UC04
s. 1-h period ending at 05 UTC: YT:UC05
t. 1-h period ending at 06 UTC: YT:UC06
u. 1-h period ending at 07 UTC: YT:UC07
v. 1-h period ending at 08 UTC: YT:UC08
w. 1-h period ending at 09 UTC: YT:UC09
x. 1-h period ending at 10 UTC: YT:UC10
y. 1-h period ending at 11 UTC: YT:UC11

12. Projections from the 11 UTC GFS-LAMP cycle:
a. 1-h period ending at 12 UTC: YT\textsubscript{2}UB12
b. 1-h period ending at 13 UTC: YT\textsubscript{2}UB13
c. 1-h period ending at 14 UTC: YT\textsubscript{2}UB14
d. 1-h period ending at 15 UTC: YT\textsubscript{2}UB15
e. 1-h period ending at 16 UTC: YT\textsubscript{2}UB16
f. 1-h period ending at 17 UTC: YT\textsubscript{2}UB17
g. 1-h period ending at 18 UTC: YT\textsubscript{2}UB18
h. 1-h period ending at 19 UTC: YT\textsubscript{2}UB19
i. 1-h period ending at 20 UTC: YT\textsubscript{2}UB20
j. 1-h period ending at 21 UTC: YT\textsubscript{2}UB21
k. 1-h period ending at 22 UTC: YT\textsubscript{2}UB22
l. 1-h period ending at 23 UTC: YT\textsubscript{2}UB23
m. 1-h period ending at 00 UTC: YT\textsubscript{2}UB24
n. 1-h period ending at 01 UTC: YT\textsubscript{2}UC01
o. 1-h period ending at 02 UTC: YT\textsubscript{2}UC02
p. 1-h period ending at 03 UTC: YT\textsubscript{2}UC03
q. 1-h period ending at 04 UTC: YT\textsubscript{2}UC04
r. 1-h period ending at 05 UTC: YT\textsubscript{2}UC05
s. 1-h period ending at 06 UTC: YT\textsubscript{2}UC06
t. 1-h period ending at 07 UTC: YT\textsubscript{2}UC07
u. 1-h period ending at 08 UTC: YT\textsubscript{2}UC08
v. 1-h period ending at 09 UTC: YT\textsubscript{2}UC09
w. 1-h period ending at 10 UTC: YT\textsubscript{2}UC10
x. 1-h period ending at 11 UTC: YT\textsubscript{2}UC11
y. 1-h period ending at 12 UTC: YT\textsubscript{2}UC12

13. Projections from the 12 UTC GFS-LAMP cycle:
   a. 1-h period ending at 13 UTC: YT\textsubscript{2}UB13
   b. 1-h period ending at 14 UTC: YT\textsubscript{2}UB14
   c. 1-h period ending at 15 UTC: YT\textsubscript{2}UB15
   d. 1-h period ending at 16 UTC: YT\textsubscript{2}UB16
   e. 1-h period ending at 17 UTC: YT\textsubscript{2}UB17
   f. 1-h period ending at 18 UTC: YT\textsubscript{2}UB18
   g. 1-h period ending at 19 UTC: YT\textsubscript{2}UB19
   h. 1-h period ending at 20 UTC: YT\textsubscript{2}UB20
   i. 1-h period ending at 21 UTC: YT\textsubscript{2}UB21
   j. 1-h period ending at 22 UTC: YT\textsubscript{2}UB22
   k. 1-h period ending at 23 UTC: YT\textsubscript{2}UB23
   l. 1-h period ending at 00 UTC: YT\textsubscript{2}UB24
   m. 1-h period ending at 01 UTC: YT\textsubscript{2}UC01
   n. 1-h period ending at 02 UTC: YT\textsubscript{2}UC02
   o. 1-h period ending at 03 UTC: YT\textsubscript{2}UC03
   p. 1-h period ending at 04 UTC: YT\textsubscript{2}UC04
   q. 1-h period ending at 05 UTC: YT\textsubscript{2}UC05
   r. 1-h period ending at 06 UTC: YT\textsubscript{2}UC06
   s. 1-h period ending at 07 UTC: YT\textsubscript{2}UC07
   t. 1-h period ending at 08 UTC: YT\textsubscript{2}UC08
   u. 1-h period ending at 09 UTC: YT\textsubscript{2}UC09
   v. 1-h period ending at 10 UTC: YT\textsubscript{2}UC10
   w. 1-h period ending at 11 UTC: YT\textsubscript{2}UC11
   x. 1-h period ending at 12 UTC: YT\textsubscript{2}UC12
   y. 1-h period ending at 13 UTC: YT\textsubscript{2}UC13

14. Projections from the 13 UTC GFS-LAMP cycle:
   a. 1-h period ending at 14 UTC: YT\textsubscript{2}UB14
   b. 1-h period ending at 15 UTC: YT\textsubscript{2}UB15
   c. 1-h period ending at 16 UTC: YT\textsubscript{2}UB16
   d. 1-h period ending at 17 UTC: YT\textsubscript{2}UB17
15. Projections from the 14 UTC GFS-LAMP cycle:
   a. 1-h period ending at 15 UTC: YT2UB15
   b. 1-h period ending at 16 UTC: YT2UB16
   c. 1-h period ending at 17 UTC: YT2UB17
   d. 1-h period ending at 18 UTC: YT2UB18
   e. 1-h period ending at 19 UTC: YT2UB19
   f. 1-h period ending at 20 UTC: YT2UB20
   g. 1-h period ending at 21 UTC: YT2UB21
   h. 1-h period ending at 22 UTC: YT2UB22
   i. 1-h period ending at 23 UTC: YT2UB23
   j. 1-h period ending at 00 UTC: YT2UB24
   k. 1-h period ending at 01 UTC: YT2UC01
   l. 1-h period ending at 02 UTC: YT2UC02
   m. 1-h period ending at 03 UTC: YT2UC03
   n. 1-h period ending at 04 UTC: YT2UC04
   o. 1-h period ending at 05 UTC: YT2UC05
   p. 1-h period ending at 06 UTC: YT2UC06
   q. 1-h period ending at 07 UTC: YT2UC07
   r. 1-h period ending at 08 UTC: YT2UC08
   s. 1-h period ending at 09 UTC: YT2UC09
   t. 1-h period ending at 10 UTC: YT2UC10
   u. 1-h period ending at 11 UTC: YT2UC11
   v. 1-h period ending at 12 UTC: YT2UC12
   w. 1-h period ending at 13 UTC: YT2UC13
   x. 1-h period ending at 14 UTC: YT2UC14
   y. 1-h period ending at 15 UTC: YT2UC15

16. Projections from the 15 UTC GFS-LAMP cycle:
   a. 1-h period ending at 16 UTC: YT2UB16
   b. 1-h period ending at 17 UTC: YT2UB17
   c. 1-h period ending at 18 UTC: YT2UB18
   d. 1-h period ending at 19 UTC: YT2UB19
   e. 1-h period ending at 20 UTC: YT2UB20
   f. 1-h period ending at 21 UTC: YT2UB21
   g. 1-h period ending at 22 UTC: YT2UB22
   h. 1-h period ending at 23 UTC: YT2UB23
i. 1-h period ending at 00 UTC: YT2UB24
j. 1-h period ending at 01 UTC: YT2UC01
k. 1-h period ending at 02 UTC: YT2UC02
l. 1-h period ending at 03 UTC: YT2UC03
m. 1-h period ending at 04 UTC: YT2UC04
n. 1-h period ending at 05 UTC: YT2UC05
o. 1-h period ending at 06 UTC: YT2UC06
p. 1-h period ending at 07 UTC: YT2UC07
q. 1-h period ending at 08 UTC: YT2UC08
r. 1-h period ending at 09 UTC: YT2UC09
s. 1-h period ending at 10 UTC: YT2UC10
t. 1-h period ending at 11 UTC: YT2UC11
u. 1-h period ending at 12 UTC: YT2UC12
v. 1-h period ending at 13 UTC: YT2UC13
w. 1-h period ending at 14 UTC: YT2UC14
x. 1-h period ending at 15 UTC: YT2UC15
y. 1-h period ending at 16 UTC: YT2UC16

17. Projections from the 16 UTC GFS-LAMP cycle:
a. 1-h period ending at 17 UTC: YT2UB17
b. 1-h period ending at 18 UTC: YT2UB18
c. 1-h period ending at 19 UTC: YT2UB19
d. 1-h period ending at 20 UTC: YT2UB20
e. 1-h period ending at 21 UTC: YT2UB21
f. 1-h period ending at 22 UTC: YT2UB22
g. 1-h period ending at 23 UTC: YT2UB23
h. 1-h period ending at 00 UTC: YT2UB24
i. 1-h period ending at 01 UTC: YT2UC01
j. 1-h period ending at 02 UTC: YT2UC02
k. 1-h period ending at 03 UTC: YT2UC03
l. 1-h period ending at 04 UTC: YT2UC04
m. 1-h period ending at 05 UTC: YT2UC05
n. 1-h period ending at 06 UTC: YT2UC06
o. 1-h period ending at 07 UTC: YT2UC07
p. 1-h period ending at 08 UTC: YT2UC08
q. 1-h period ending at 09 UTC: YT2UC09
r. 1-h period ending at 10 UTC: YT2UC10
s. 1-h period ending at 11 UTC: YT2UC11
t. 1-h period ending at 12 UTC: YT2UC12
u. 1-h period ending at 13 UTC: YT2UC13
v. 1-h period ending at 14 UTC: YT2UC14
w. 1-h period ending at 15 UTC: YT2UC15
x. 1-h period ending at 16 UTC: YT2UC16
y. 1-h period ending at 17 UTC: YT2UC17

18. Projections from the 17 UTC GFS-LAMP cycle:
a. 1-h period ending at 18 UTC: YT2UB18
b. 1-h period ending at 19 UTC: YT2UB19
c. 1-h period ending at 20 UTC: YT2UB20
d. 1-h period ending at 21 UTC: YT2UB21
e. 1-h period ending at 22 UTC: YT2UB22
f. 1-h period ending at 23 UTC: YT2UB23
g. 1-h period ending at 00 UTC: YT2UB24
h. 1-h period ending at 01 UTC: YT2UC01
i. 1-h period ending at 02 UTC: YT2UC02
j. 1-h period ending at 03 UTC: YT2UC03
k. 1-h period ending at 04 UTC: YT2UC04
l. 1-h period ending at 05 UTC: YT2UC05
m. 1-h period ending at 06 UTC: YT2UC06
n. 1-h period ending at 07 UTC: YT2UC07
o. 1-h period ending at 08 UTC: YT2UC08
p. 1-h period ending at 09 UTC: YT2UC09
q. 1-h period ending at 10 UTC: YT2UC10
r. 1-h period ending at 11 UTC: YT2UC11
s. 1-h period ending at 12 UTC: YT2UC12
t. 1-h period ending at 13 UTC: YT2UC13
u. 1-h period ending at 14 UTC: YT2UC14
v. 1-h period ending at 15 UTC: YT2UC15
w. 1-h period ending at 16 UTC: YT2UC16
x. 1-h period ending at 17 UTC: YT2UC17
y. 1-h period ending at 18 UTC: YT2UC18

19. Projections from the 18 UTC GFS-LAMP cycle:
a. 1-h period ending at 19 UTC: YT2UB19
b. 1-h period ending at 20 UTC: YT2UB20
c. 1-h period ending at 21 UTC: YT2UB21
d. 1-h period ending at 22 UTC: YT2UB22
e. 1-h period ending at 23 UTC: YT2UB23
f. 1-h period ending at 00 UTC: YT2UB24
g. 1-h period ending at 01 UTC: YT2UC01
h. 1-h period ending at 02 UTC: YT2UC02
i. 1-h period ending at 03 UTC: YT2UC03
j. 1-h period ending at 04 UTC: YT2UC04
k. 1-h period ending at 05 UTC: YT2UC05
l. 1-h period ending at 06 UTC: YT2UC06
m. 1-h period ending at 07 UTC: YT2UC07
n. 1-h period ending at 08 UTC: YT2UC08
o. 1-h period ending at 09 UTC: YT2UC09
p. 1-h period ending at 10 UTC: YT2UC10
q. 1-h period ending at 11 UTC: YT2UC11
r. 1-h period ending at 12 UTC: YT2UC12
s. 1-h period ending at 13 UTC: YT2UC13
t. 1-h period ending at 14 UTC: YT2UC14
u. 1-h period ending at 15 UTC: YT2UC15
v. 1-h period ending at 16 UTC: YT2UC16
w. 1-h period ending at 17 UTC: YT2UC17
x. 1-h period ending at 18 UTC: YT2UC18
y. 1-h period ending at 19 UTC: YT2UC19

20. Projections from the 19 UTC GFS-LAMP cycle:
a. 1-h period ending at 20 UTC: YT2UB20
b. 1-h period ending at 21 UTC: YT2UB21
c. 1-h period ending at 22 UTC: YT2UB22
d. 1-h period ending at 23 UTC: YT2UB23
e. 1-h period ending at 00 UTC: YT2UB24
f. 1-h period ending at 01 UTC: YT2UC01
g. 1-h period ending at 02 UTC: YT2UC02
h. 1-h period ending at 03 UTC: YT2UC03
i. 1-h period ending at 04 UTC: YT2UC04
j. 1-h period ending at 05 UTC: YT2UC05
k. 1-h period ending at 06 UTC: YT2UC06
l. 1-h period ending at 07 UTC: YT2UC07
m. 1-h period ending at 08 UTC: YT2UC08
n. 1-h period ending at 09 UTC: YT2UC09
o. 1-h period ending at 10 UTC: YT2UC10
p. 1-h period ending at 11 UTC: YT2UC11
q. 1-h period ending at 12 UTC: YT₂UC12
r. 1-h period ending at 13 UTC: YT₂UC13
s. 1-h period ending at 14 UTC: YT₂UC14
t. 1-h period ending at 15 UTC: YT₂UC15
u. 1-h period ending at 16 UTC: YT₂UC16
v. 1-h period ending at 17 UTC: YT₂UC17
w. 1-h period ending at 18 UTC: YT₂UC18
x. 1-h period ending at 19 UTC: YT₂UC19
y. 1-h period ending at 20 UTC: YT₂UC20

21. Projections from the 20 UTC GFS-LAMP cycle:
   a. 1-h period ending at 21 UTC: YT₂UB21
   b. 1-h period ending at 22 UTC: YT₂UB22
   c. 1-h period ending at 23 UTC: YT₂UB23
d. 1-h period ending at 00 UTC: YT₂UB24
e. 1-h period ending at 01 UTC: YT₂UC01
f. 1-h period ending at 02 UTC: YT₂UC02
g. 1-h period ending at 03 UTC: YT₂UC03
h. 1-h period ending at 04 UTC: YT₂UC04
i. 1-h period ending at 05 UTC: YT₂UC05
j. 1-h period ending at 06 UTC: YT₂UC06
k. 1-h period ending at 07 UTC: YT₂UC07
l. 1-h period ending at 08 UTC: YT₂UC08
m. 1-h period ending at 09 UTC: YT₂UC09
n. 1-h period ending at 10 UTC: YT₂UC10
o. 1-h period ending at 11 UTC: YT₂UC11
p. 1-h period ending at 12 UTC: YT₂UC12
q. 1-h period ending at 13 UTC: YT₂UC13
r. 1-h period ending at 14 UTC: YT₂UC14
s. 1-h period ending at 15 UTC: YT₂UC15
t. 1-h period ending at 16 UTC: YT₂UC16
u. 1-h period ending at 17 UTC: YT₂UC17
v. 1-h period ending at 18 UTC: YT₂UC18
w. 1-h period ending at 19 UTC: YT₂UC19
x. 1-h period ending at 20 UTC: YT₂UC20
y. 1-h period ending at 21 UTC: YT₂UC21

22. Projections from the 21 UTC GFS-LAMP cycle:
   a. 1-h period ending at 22 UTC: YT₂UB22
   b. 1-h period ending at 23 UTC: YT₂UB23
c. 1-h period ending at 00 UTC: YT₂UB24
d. 1-h period ending at 01 UTC: YT₂UC01
e. 1-h period ending at 02 UTC: YT₂UC02
f. 1-h period ending at 03 UTC: YT₂UC03
g. 1-h period ending at 04 UTC: YT₂UC04
h. 1-h period ending at 05 UTC: YT₂UC05
i. 1-h period ending at 06 UTC: YT₂UC06
j. 1-h period ending at 07 UTC: YT₂UC07
k. 1-h period ending at 08 UTC: YT₂UC08
l. 1-h period ending at 09 UTC: YT₂UC09
m. 1-h period ending at 10 UTC: YT₂UC10
n. 1-h period ending at 11 UTC: YT₂UC11
o. 1-h period ending at 12 UTC: YT₂UC12
p. 1-h period ending at 13 UTC: YT₂UC13
q. 1-h period ending at 14 UTC: YT₂UC14
r. 1-h period ending at 15 UTC: YT₂UC15
s. 1-h period ending at 16 UTC: YT₂UC16
t. 1-h period ending at 17 UTC: YT₂UC17
23. Projections from the 22 UTC GFS-LAMP cycle:
   a. 1-h period ending at 23 UTC: YT2:UA23
   b. 1-h period ending at 00 UTC: YT2:UA24
   c. 1-h period ending at 01 UTC: YT2:UB01
   d. 1-h period ending at 02 UTC: YT2:UB02
   e. 1-h period ending at 03 UTC: YT2:UB03
   f. 1-h period ending at 04 UTC: YT2:UB04
   g. 1-h period ending at 05 UTC: YT2:UB05
   h. 1-h period ending at 06 UTC: YT2:UB06
   i. 1-h period ending at 07 UTC: YT2:UB07
   j. 1-h period ending at 08 UTC: YT2:UB08
   k. 1-h period ending at 09 UTC: YT2:UB09
   l. 1-h period ending at 10 UTC: YT2:UB10
   m. 1-h period ending at 11 UTC: YT2:UB11
   n. 1-h period ending at 12 UTC: YT2:UB12
   o. 1-h period ending at 13 UTC: YT2:UB13
   p. 1-h period ending at 14 UTC: YT2:UB14
   q. 1-h period ending at 15 UTC: YT2:UB15
   r. 1-h period ending at 16 UTC: YT2:UB16
   s. 1-h period ending at 17 UTC: YT2:UB17
   t. 1-h period ending at 18 UTC: YT2:UB18
   u. 1-h period ending at 19 UTC: YT2:UB19
   v. 1-h period ending at 20 UTC: YT2:UB20
   w. 1-h period ending at 21 UTC: YT2:UB21
   x. 1-h period ending at 22 UTC: YT2:UB22
   y. 1-h period ending at 23 UTC: YT2:UB23

24. Projections from the 23 UTC GFS-LAMP cycle:
   a. 1-h period ending at 00 UTC: YT3:UA24
   b. 1-h period ending at 01 UTC: YT3:UB01
   c. 1-h period ending at 02 UTC: YT3:UB02
   d. 1-h period ending at 03 UTC: YT3:UB03
   e. 1-h period ending at 04 UTC: YT3:UB04
   f. 1-h period ending at 05 UTC: YT3:UB05
   g. 1-h period ending at 06 UTC: YT3:UB06
   h. 1-h period ending at 07 UTC: YT3:UB07
   i. 1-h period ending at 08 UTC: YT3:UB08
   j. 1-h period ending at 09 UTC: YT3:UB09
   k. 1-h period ending at 10 UTC: YT3:UB10
   l. 1-h period ending at 11 UTC: YT3:UB11
   m. 1-h period ending at 12 UTC: YT3:UB12
   n. 1-h period ending at 13 UTC: YT3:UB13
   o. 1-h period ending at 14 UTC: YT3:UB14
   p. 1-h period ending at 15 UTC: YT3:UB15
   q. 1-h period ending at 16 UTC: YT3:UB16
   r. 1-h period ending at 17 UTC: YT3:UB17
   s. 1-h period ending at 18 UTC: YT3:UB18
   t. 1-h period ending at 19 UTC: YT3:UB19
   u. 1-h period ending at 20 UTC: YT3:UB20
   v. 1-h period ending at 21 UTC: YT3:UB21
   w. 1-h period ending at 22 UTC: YT3:UB22
   x. 1-h period ending at 23 UTC: YT3:UB23
Table 1: WMO header information for LAMP products

<table>
<thead>
<tr>
<th>Element</th>
<th>Header</th>
<th>Geographical Area</th>
<th>Data Type</th>
<th>No. of Products per cycle</th>
<th>Projections (hr)</th>
<th>Bytes per header/cycle</th>
</tr>
</thead>
<tbody>
<tr>
<td>All elements</td>
<td>JSMF10 KWNO</td>
<td>Pacific Region</td>
<td>BUFR</td>
<td>1</td>
<td>1-25 (in increments of 1 hour)</td>
<td>20K/20K</td>
</tr>
<tr>
<td>All elements</td>
<td>JSMF11 KWNO</td>
<td>Northeast CONUS</td>
<td>BUFR</td>
<td>1</td>
<td>1-25 (in increments of 1 hour)</td>
<td>400K/400K</td>
</tr>
<tr>
<td>All elements</td>
<td>JSMF12 KWNO</td>
<td>Southeast CONUS, PR, VI</td>
<td>BUFR</td>
<td>1</td>
<td>1-25 (in increments of 1 hour)</td>
<td>300K/300K</td>
</tr>
<tr>
<td>All elements</td>
<td>JSMF13 KWNO</td>
<td>North Central CONUS</td>
<td>BUFR</td>
<td>1</td>
<td>1-25 (in increments of 1 hour)</td>
<td>700K/700K</td>
</tr>
<tr>
<td>All elements</td>
<td>JSMF14 KWNO</td>
<td>South Central CONUS</td>
<td>BUFR</td>
<td>1</td>
<td>1-25 (in increments of 1 hour)</td>
<td>400K/400K</td>
</tr>
<tr>
<td>All elements</td>
<td>JSMF15 KWNO</td>
<td>Rocky Mountains CONUS</td>
<td>BUFR</td>
<td>1</td>
<td>1-25 (in increments of 1 hour)</td>
<td>275K/275K</td>
</tr>
<tr>
<td>All elements</td>
<td>JSMF16 KWNO</td>
<td>West Coast CONUS</td>
<td>BUFR</td>
<td>1</td>
<td>1-25 (in increments of 1 hour)</td>
<td>275K/275K</td>
</tr>
<tr>
<td>All elements</td>
<td>JSMF17 KWNO</td>
<td>Alaska</td>
<td>BUFR</td>
<td>1</td>
<td>1-25 (in increments of 1 hour)</td>
<td>200K/200K</td>
</tr>
<tr>
<td>All elements</td>
<td>FOUS11 KWNO</td>
<td>CONUS, HI, AK, PR, VI</td>
<td>ASCII</td>
<td>1</td>
<td>1-25 (in increments of 1 hour)</td>
<td>3.2M/3.2M</td>
</tr>
<tr>
<td>Ceiling Height, Visibility, Obstruction to Vision</td>
<td>FEUS11 KWNO</td>
<td>CONUS, HI, AK, PR, VI</td>
<td>ASCII</td>
<td>1</td>
<td>26-38 (in increments of 1 hour)</td>
<td>800K/800K</td>
</tr>
<tr>
<td>5-km Gridded Lightning Probabilities in a 2-hr period</td>
<td>LAUA2ii KWNO</td>
<td>CONUS</td>
<td>GRIB2</td>
<td>14 grids (1 per projection)</td>
<td>2-hr periods ending at the following projections - From even cycles: 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 20, 22, 24 - From odd cycles: 3, 4, 5, 6, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25</td>
<td>75K/1.05M</td>
</tr>
<tr>
<td>5-km Gridded Categorical Forecasts</td>
<td>LBUA2ii KWNO</td>
<td>CONUS</td>
<td>GRIB2</td>
<td>14 grids (1 per projection)</td>
<td>2-hr periods ending at the</td>
<td>65K/910K</td>
</tr>
<tr>
<td>Lightning</td>
<td>Gridded</td>
<td>Probability</td>
<td>Periods</td>
<td>Endings</td>
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<tr>
<td>2.5-km</td>
<td>LCUA2ii</td>
<td>KWNO</td>
<td>CONUS</td>
<td>GRIB2</td>
<td>14 grids (1 per projection)</td>
<td>2-hr periods ending at the following projections</td>
</tr>
<tr>
<td>Gridded</td>
<td></td>
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<td></td>
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<td></td>
<td>- From even cycles: 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 20, 22, 24</td>
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<tr>
<td>Lightning Probabilities in a 2-hr period</td>
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<td>- From odd cycles: 3, 4, 5, 6, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25</td>
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<td></td>
<td></td>
<td>571K/8M</td>
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<tr>
<td>2.5-km</td>
<td>LDUA2ii</td>
<td>KWNO</td>
<td>CONUS</td>
<td>GRIB2</td>
<td>14 grids (1 per projection)</td>
<td>2-hr periods ending at the following projections</td>
</tr>
<tr>
<td>Gridded</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>- From even cycles: 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 20, 22, 24</td>
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<tr>
<td>Categorical Forecast Potential (non/low/medium/high) of Lightning occurring in a 2-hr period</td>
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<td>- From odd cycles: 3, 4, 5, 6, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25</td>
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<td></td>
<td>428K/6M</td>
</tr>
<tr>
<td>2.5-km</td>
<td>LEUA2ii</td>
<td>KWNO</td>
<td>CONUS</td>
<td>GRIB2</td>
<td>14 grids (1 per projection)</td>
<td>2-hr periods ending at the following projections</td>
</tr>
<tr>
<td>Gridded</td>
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<td></td>
<td>- From even cycles: 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 20, 22, 24</td>
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<td>Convection Probabilities in a 2-hr period</td>
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<td>- From odd cycles: 3, 4, 5, 6, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25</td>
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<td></td>
<td>571K/8M</td>
</tr>
<tr>
<td>2.5-km</td>
<td>LFUA2ii</td>
<td>KWNO</td>
<td>CONUS</td>
<td>GRIB2</td>
<td>14 grids (1 per projection)</td>
<td>2-hr periods ending at the following projections</td>
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<tr>
<td>Gridded</td>
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<td></td>
<td>- From even cycles: 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 20, 22, 24</td>
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<tr>
<td>Categorical Forecast</td>
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<td>- From odd cycles: 3, 4, 5, 6, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25</td>
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<td>428K/6M</td>
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<tr>
<td>Potential (non/low/medium/high) of Convection occurring in a 2-hr period</td>
<td>2.5-km Gridded Lightning Probabilities in a 1-hr period</td>
<td>2.5-km Gridded Categorical Forecast Potential (non/low/medium/high) of Lightning occurring in a 1-hr period</td>
<td>2.5-km Gridded Convection Probabilities in a 1-hr period</td>
<td>2.5-km Gridded Categorical Forecast Potential (non/low/medium/high) of Convection occurring in a 1-hr period</td>
<td>following projections - From even cycles: 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 20, 22, 24 - From odd cycles: 3, 4, 5, 6, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25</td>
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<td>1-hr periods ending 1-25 hours after cycle time.</td>
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<td>1-hr periods ending 1-25 hours after cycle time.</td>
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<td>1-hr periods ending 1-25 hours after cycle time.</td>
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<td>1-hr periods ending 1-25 hours after cycle time.</td>
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<td>358K/9M</td>
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<td>383K/9.6M</td>
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<td>297K/7.4M</td>
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</tbody>
</table>