Summary of Key Briefing Points
1030-1130am MST Sat Feb 27, 2016

Current Conditions as of Sat 12Z-15Z February 27

Tropics and Mid-latitudes

Over the Tropical Pacific:

- Isolated convection in SE portion FD
- Main activity in SH SPCZ
- CXI Indicates warm air aloft, low level capping inversion

Tropical Outlook

- Main convection in SPCZ----to remain very active, and eastward displaced
- Active convection expected in FD in a band SE-NW over next 2-4 days

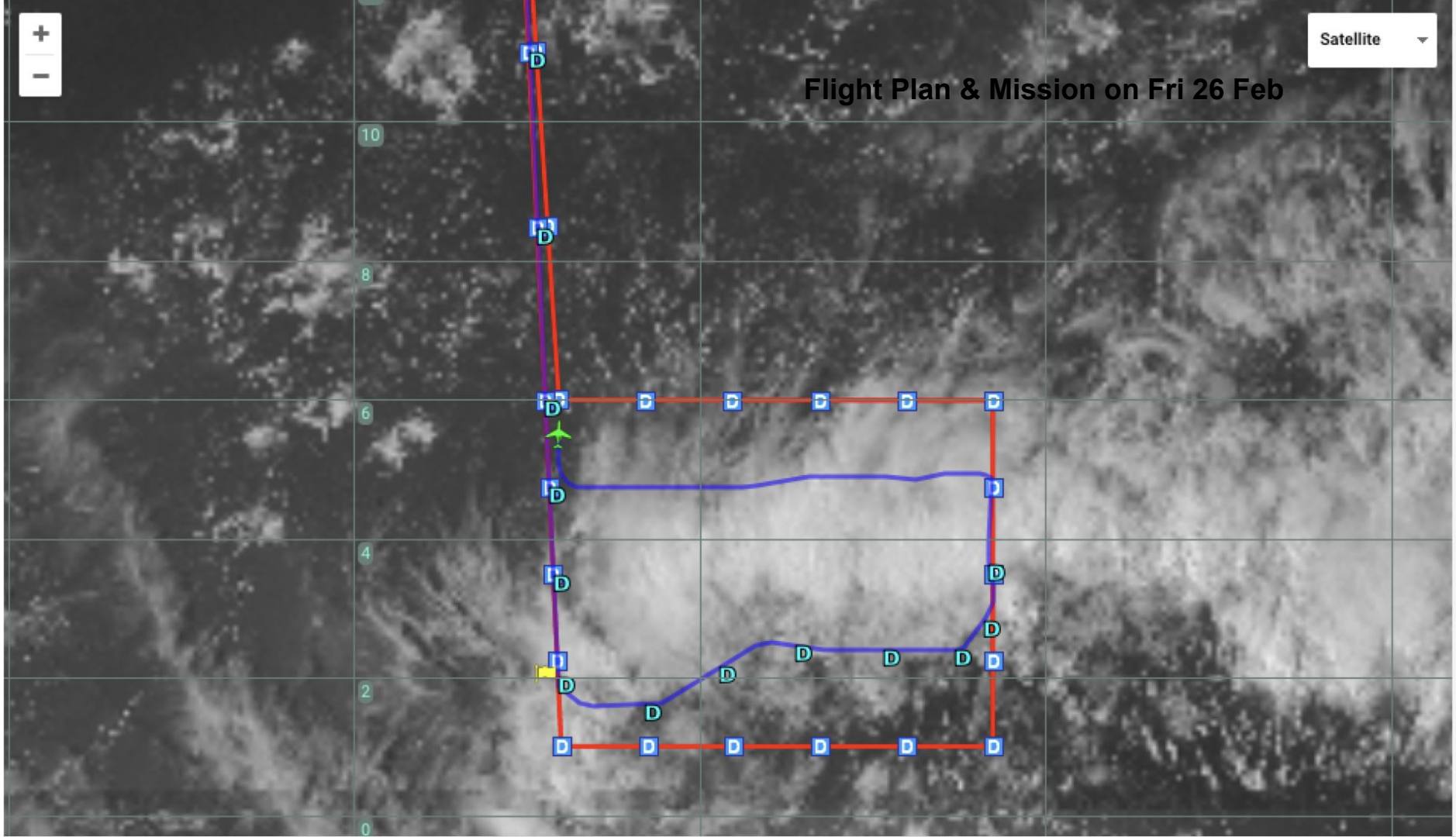
Midlatitude Conditions/Outlook

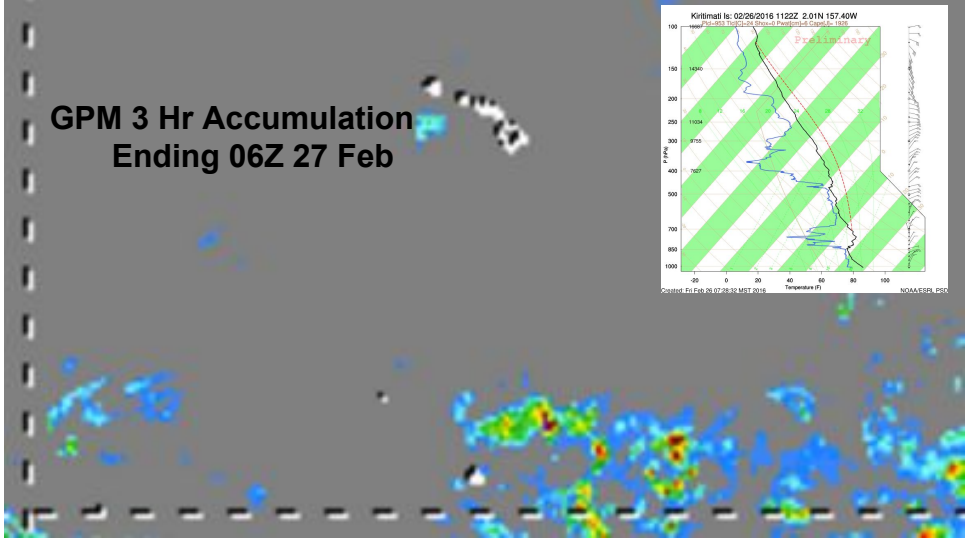
Short Term:

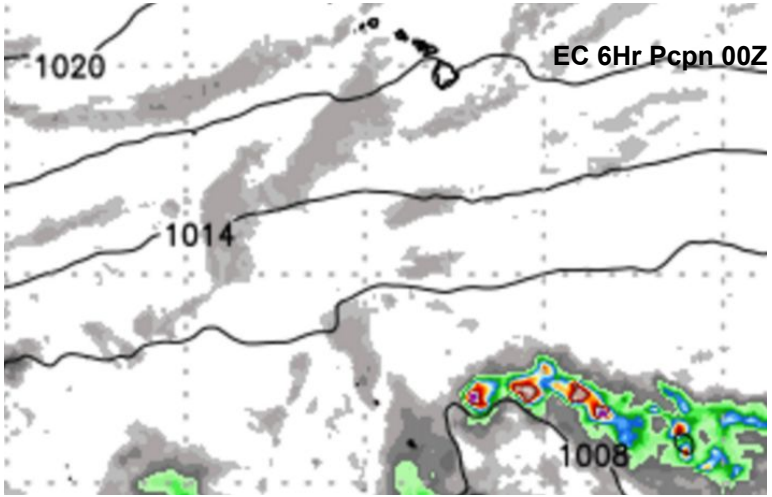
- CA quiet, rains expected by weekend in N

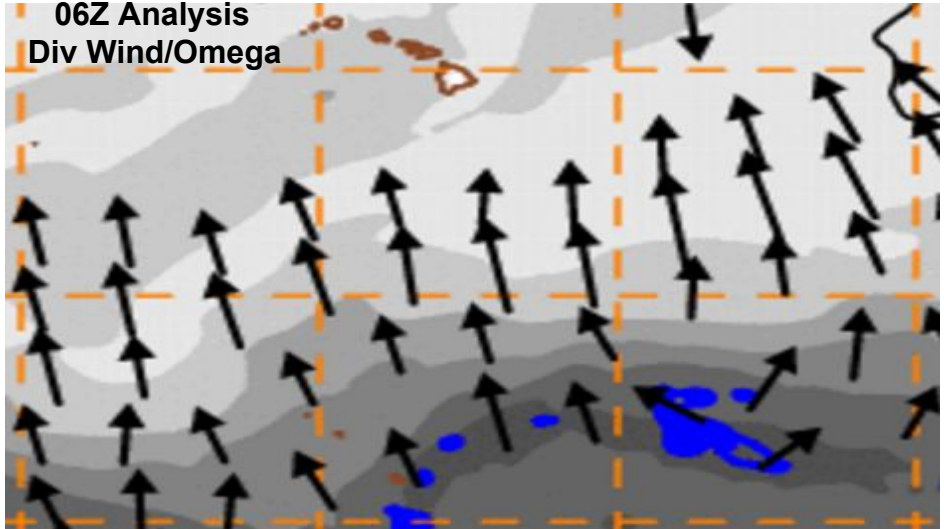
- **Medium - Long Term:**

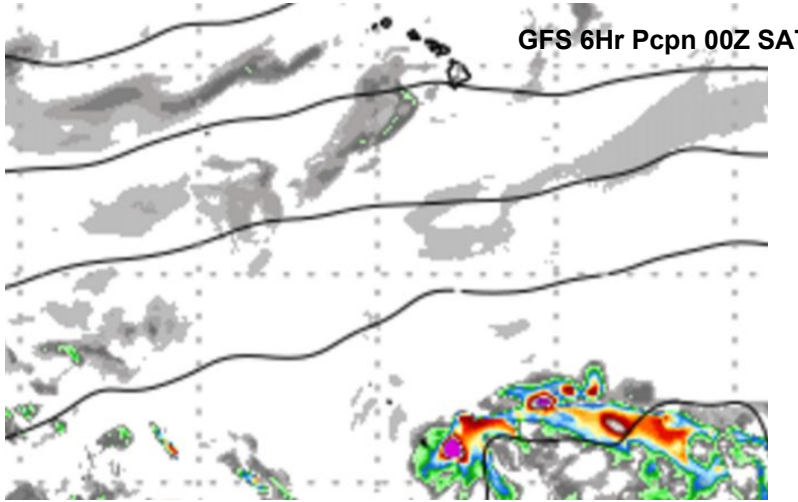
- possible Central CA rain early next week
- No appreciable CA pcpn expected over the next 4-7days
- Day 9-15 in EC and GFS indicate major change in the EPacific circulation, wet CA possible


Flight Plan & Mission on Fri 26 Feb
Satellite
10
8
6
4
2
0


GPM 3 Hr Accumulation
Ending 06Z 27 Feb
Kiritimati Is: 02/26/2016 1122Z 2.01N 157.40W
Preliminary
Temperature (F)
NOAA/ESRL PSD


EC 6Hr Pcpn 00Z SAT
1020
1014
1008


06Z Analysis
Div Wind/Omega


GFS 6Hr Pcpn 00Z SAT

Launch: 1:20LT, 11:20UT: Overcast skies, brisk wind. Grass and some
concrete wet during setup. Began to rain lightly as attached sonde to
balloon. Sfc winds 26-28 degrees, 6 m/s. No ppt falling a few
minutes after launch.

0140LT: raining lightly, 0146 have recorded .02" rain in 6 minutes.

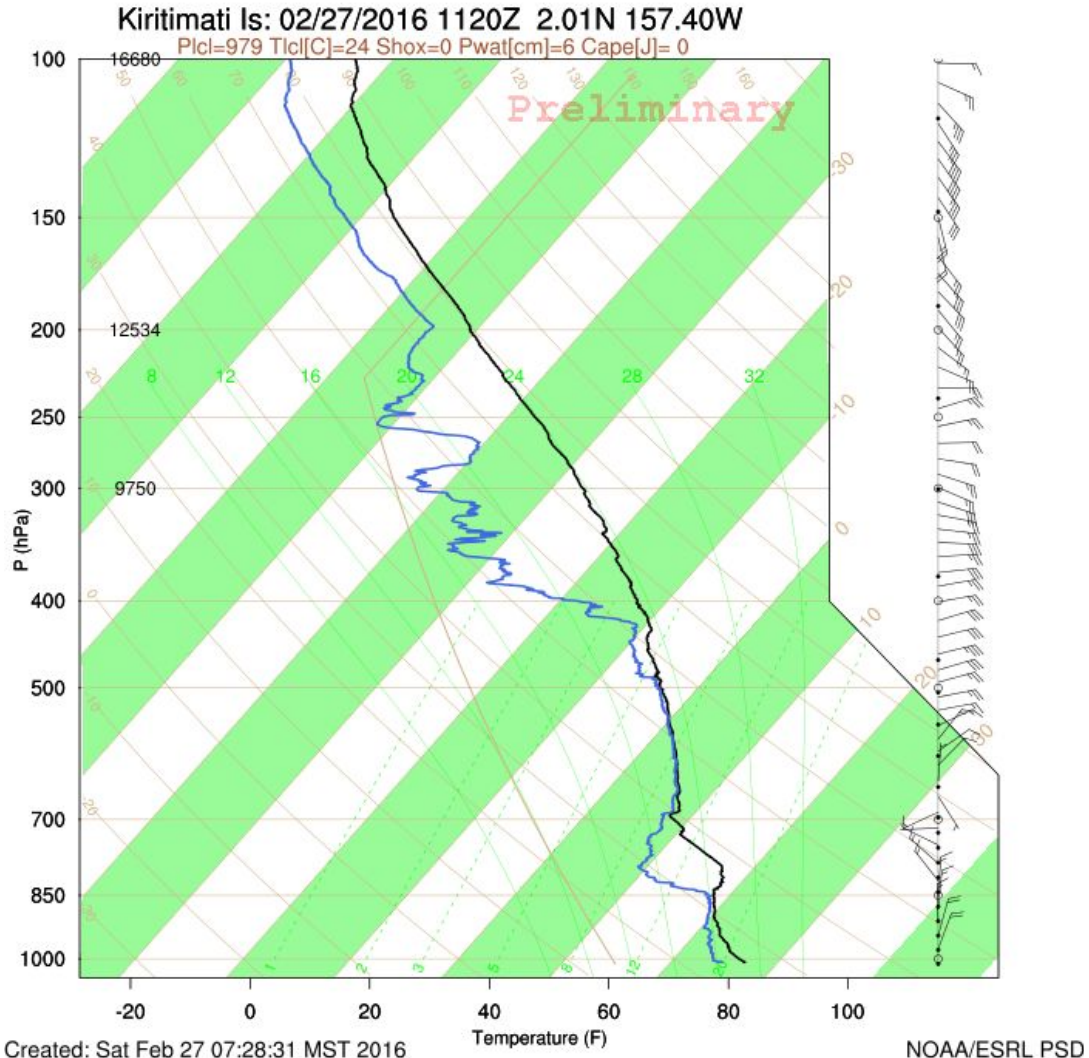
0200LT: raining lightly, gusty winds (8m/s+/-2).

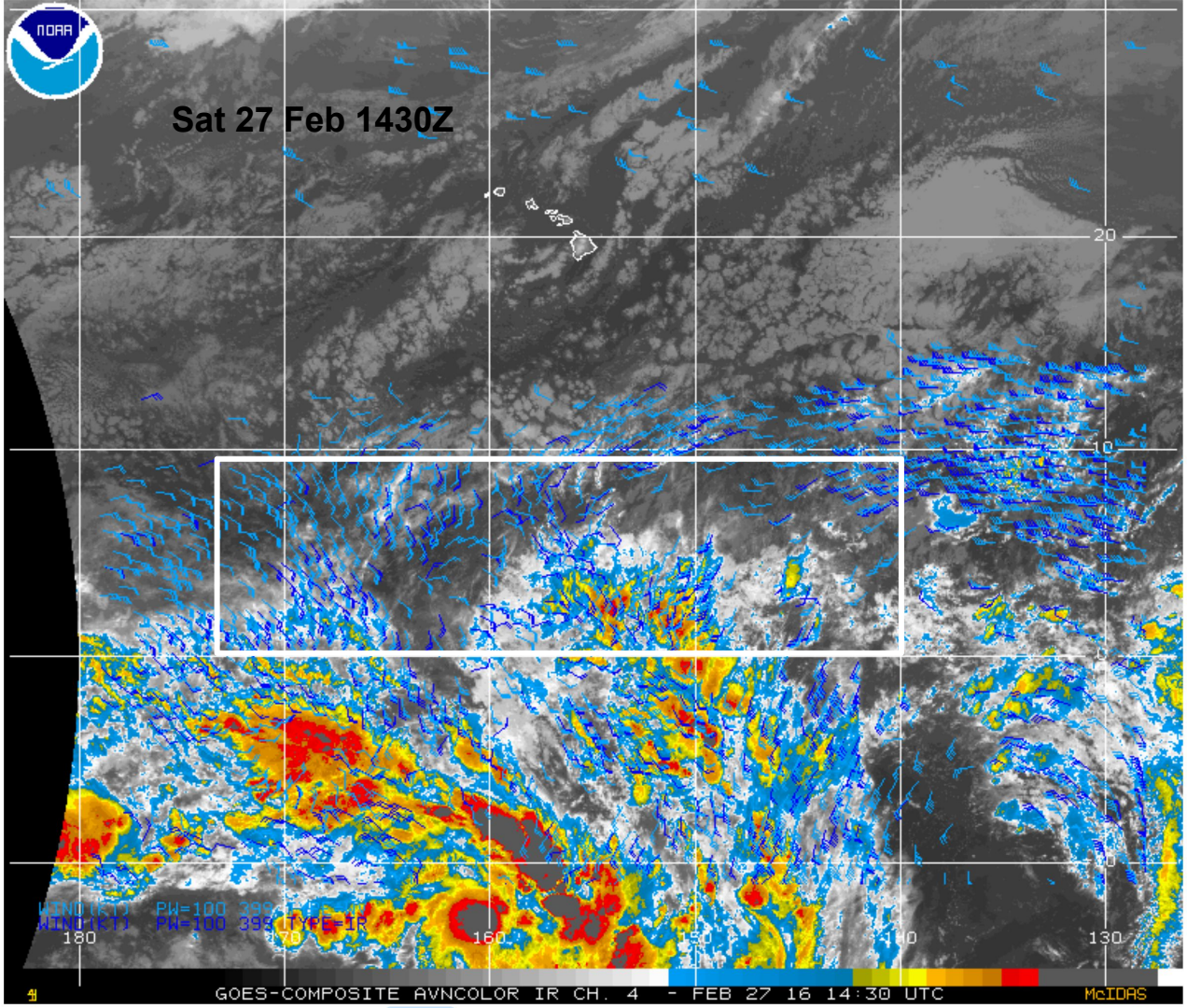
0230LT: Surface becoming more unpleasant, raining lightly, windy. At
launch pressure was 1009.20 hPa, now is 1006.3. Winds at launch were
7.5 m/s, now are 11 m/s, G

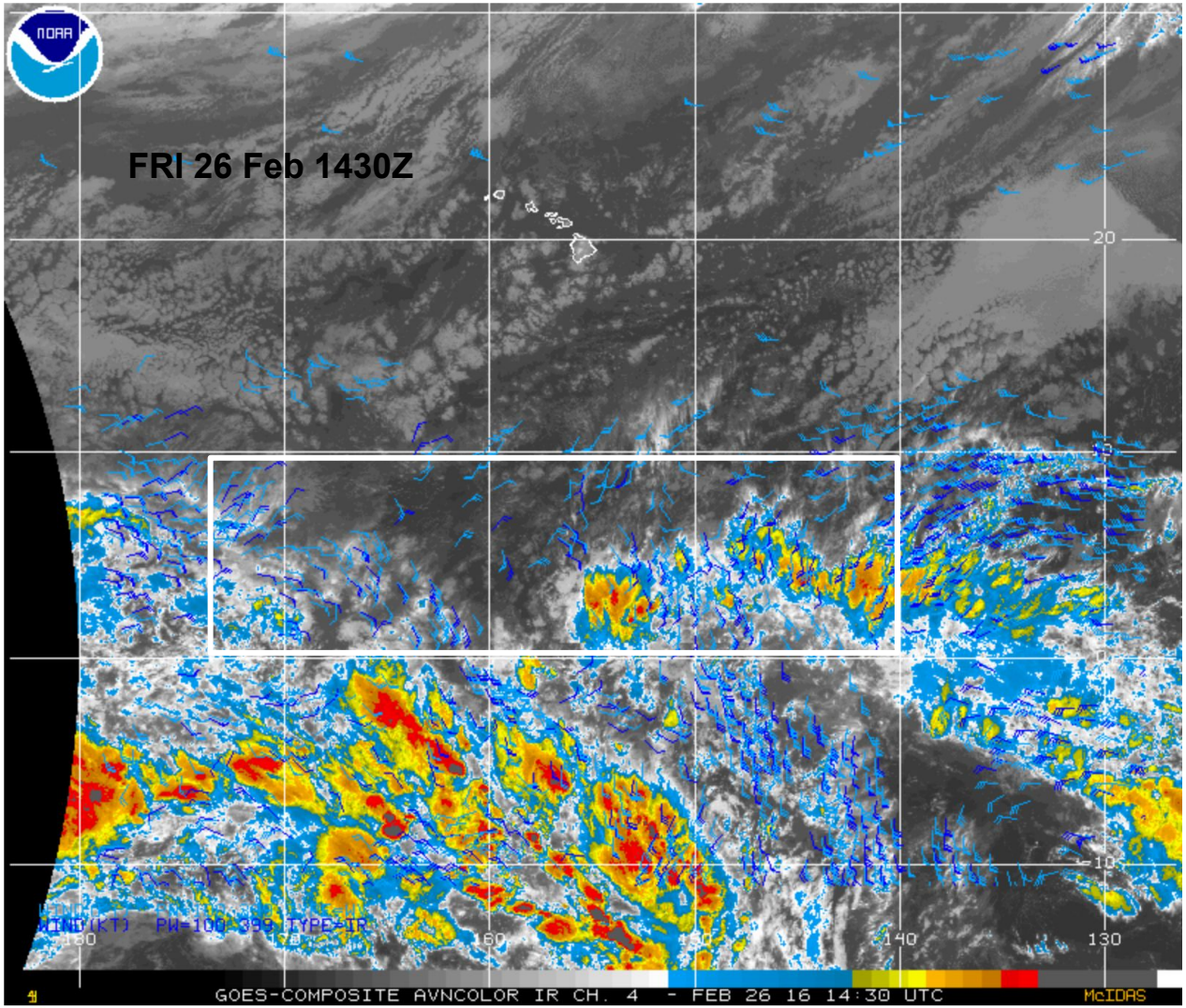
0300LT: Light rain, 1006.0 hPa, temp 26.5 degrees, 15.79%RH, wind 12
m/sG15 @ 28 degrees. Balloon has burst.

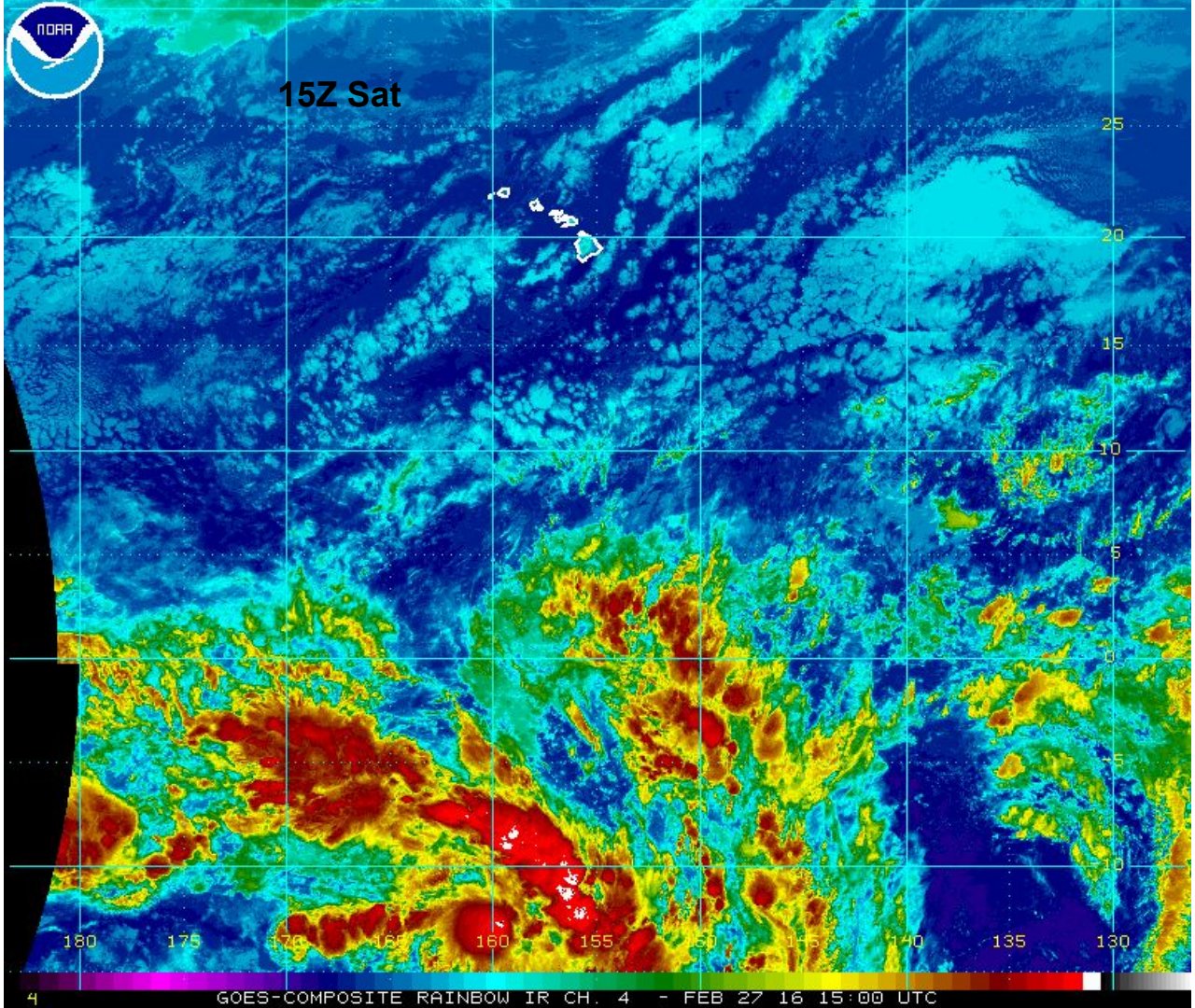
Transfer did not make PSD HH:40 transfer time

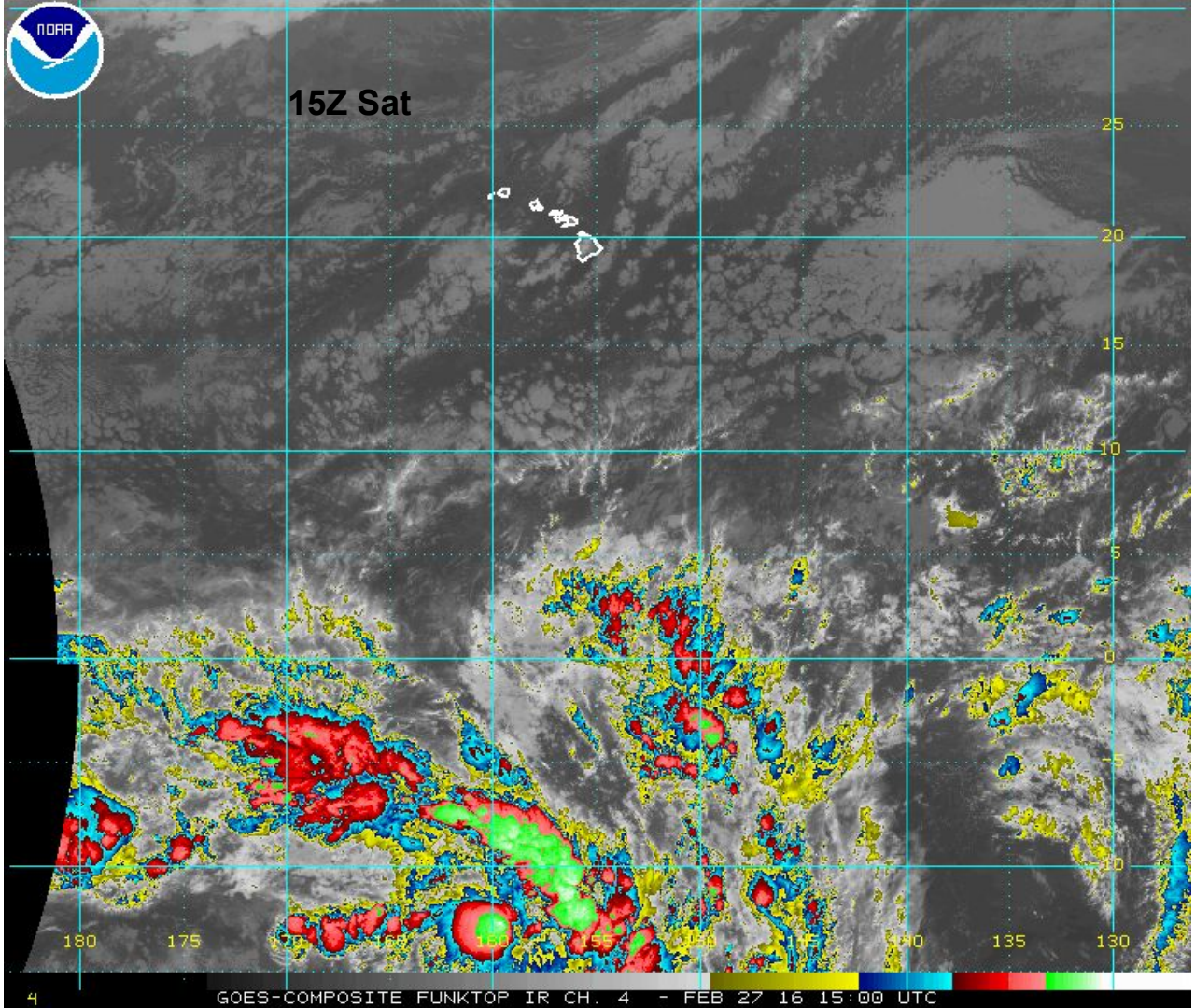
Paul and Leslie

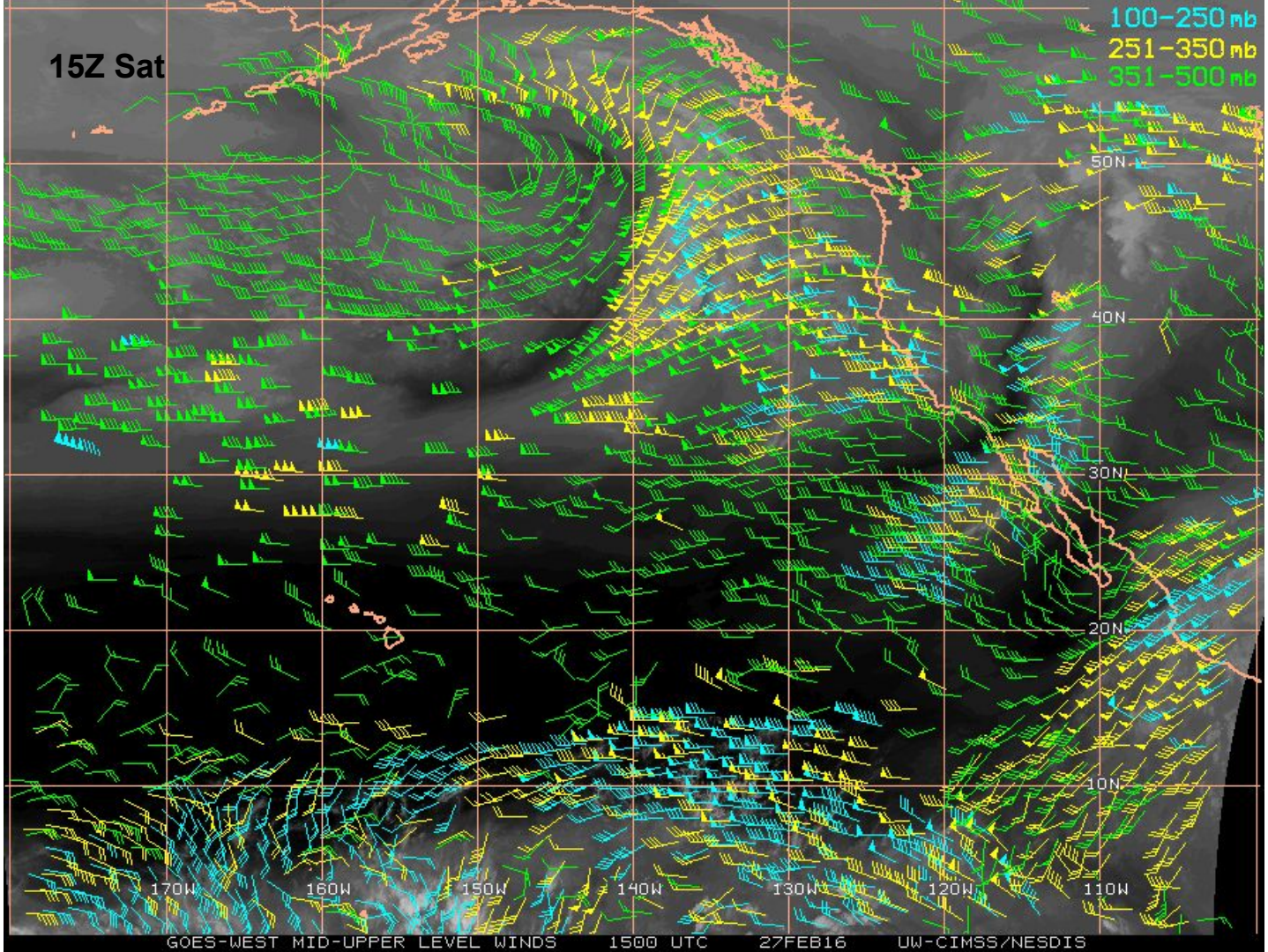



Sat 27 Feb 1430Z
20
10
0
180
170
160
150
140
130
GOES-COMPOSITE AVNCOLOR IR CH. 4 - FEB 27 16 14:30 UTC
McIDAS

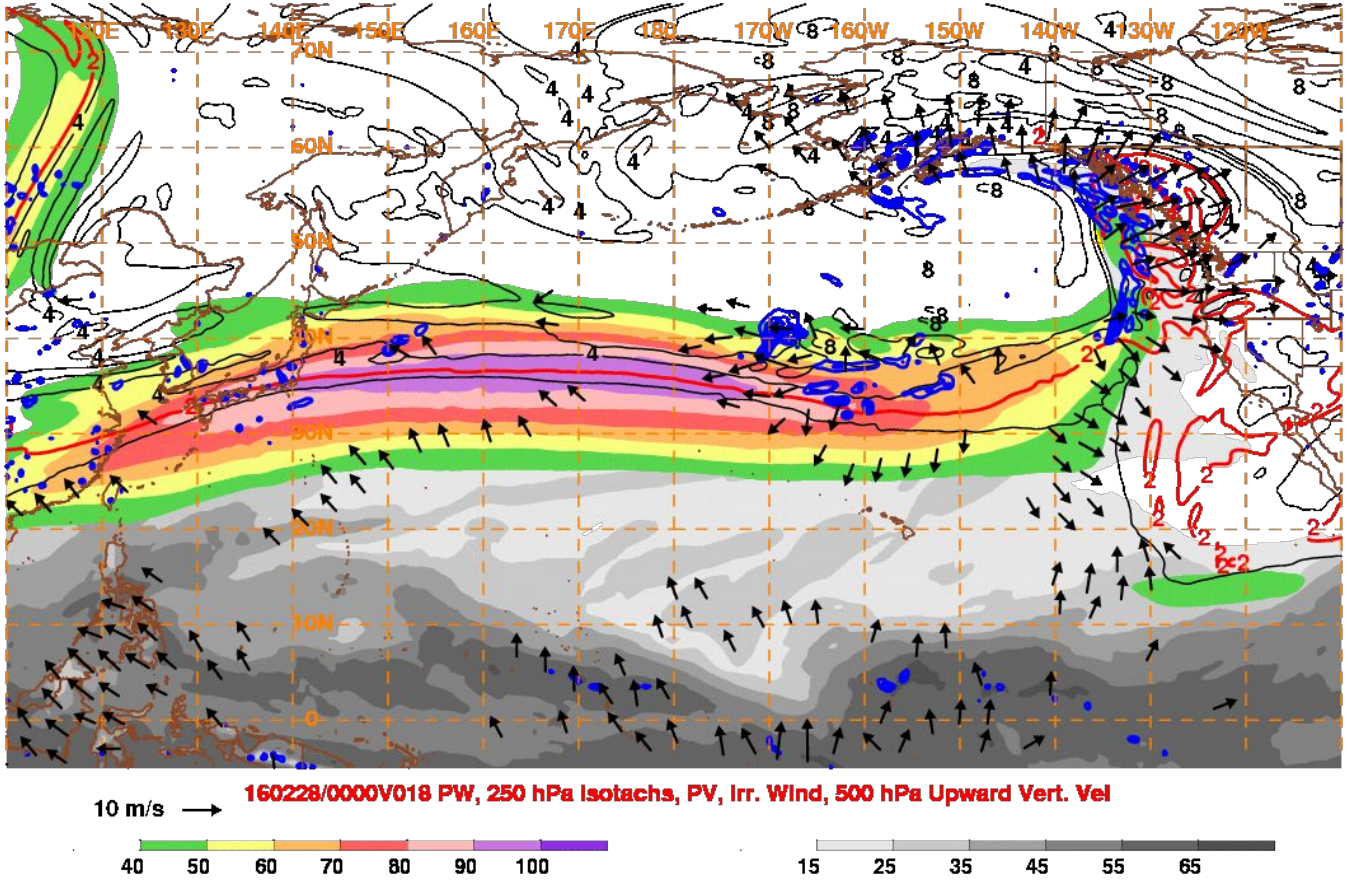

FRI 26 Feb 1430Z
20
10
180
140
130
GOES-COMPOSITE AVNCOLOR IR CH. 4 - FEB 26 16 14:30 UTC
McIDAS


15Z Sat
25
20
15
10
5
0
5
10
180
175
160
155
140
135
130
4
GOES-COMPOSITE RAINBOW IR CH. 4 - FEB 27 16 15:00 UTC

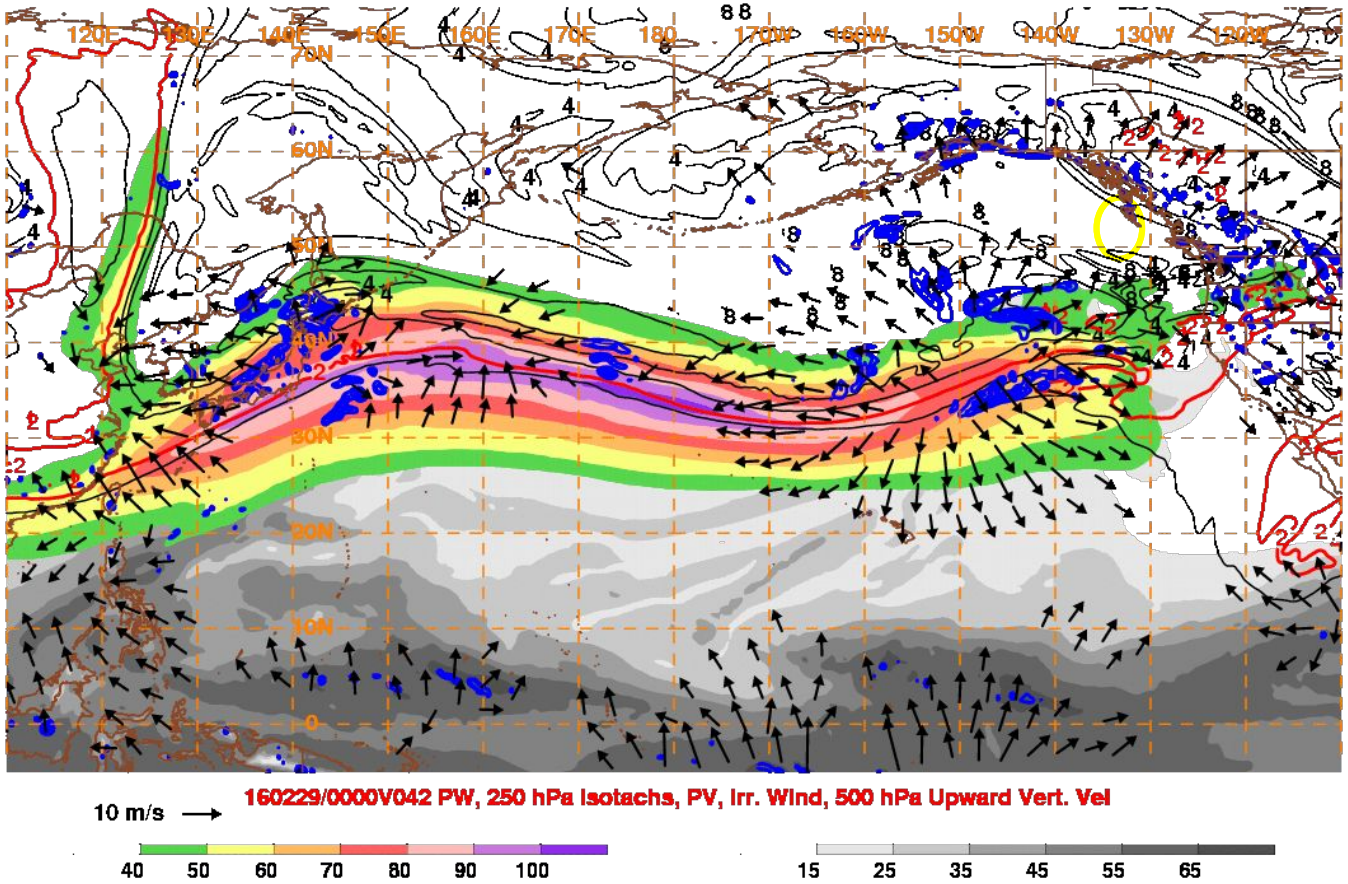

15Z Sat
25
20
15
10
5
0
-5
-10
180
175
135
130
GOES-COMPOSITE FUNKTOP IR CH. 4 - FEB 27 16 15:00 UTC


15Z Sat
100-250 mb
251-350 mb
351-500 mb
50N
40N
30N
20N
10N
170W
160W
150W
140W
130W
120W
110W
GOES-WEST MID-UPPER LEVEL WINDS 1500 UTC 27FEB16 UW-CIMSS/NESDIS

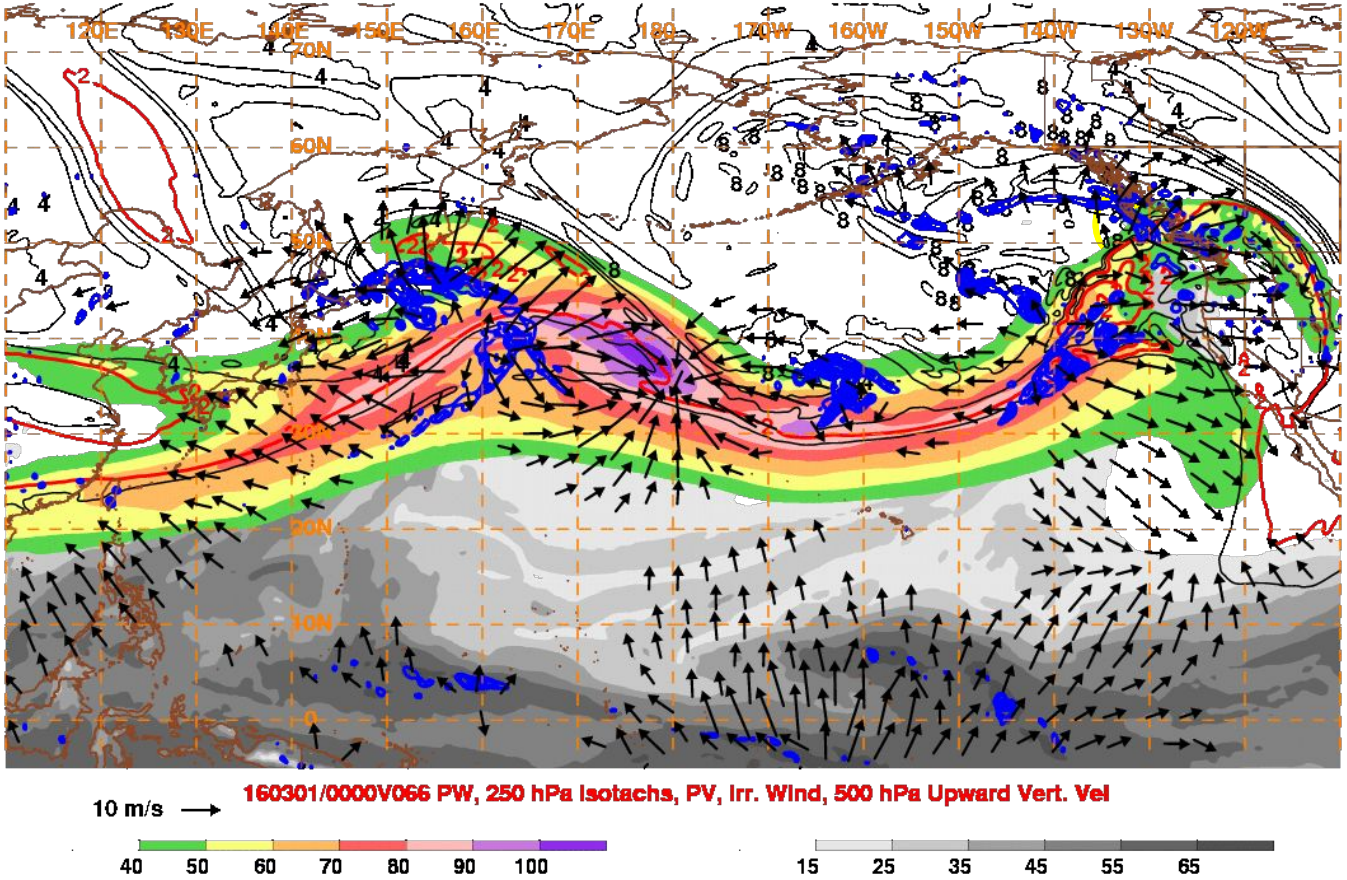
00Z Sun


160228/0000V018 PW, 250 hPa Isotachs, PV, Irr. Wind, 500 hPa Upward Vert. Vel
10 m/s
40 50 60 70 80 90 100
15 25 35 45 55 65

00Z Mon


120E
130E
140E
150E
160E
170E
180
170W
160W
150W
140W
130W
120W
70N
60N
50N
40N
30N
20N
10N
0
160229/0000V042 PW, 250 hPa Isotachs, PV, Irr. Wind, 500 hPa Upward Vert. Vel
10 m/s
40
50
60
70
80
90
100
15
25
35
45
55
65

00Z TUE


120E
130E
140E
150E
160E
170E
180
170W
160W
150W
140W
130W
120W
70N
60N
50N
40N
30N
20N
10N
0
10 m/s
160301/0000V066 PW, 250 hPa Isotachs, PV, Irr. Wind, 500 hPa Upward Vert. Vel
40
50
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80
90
100
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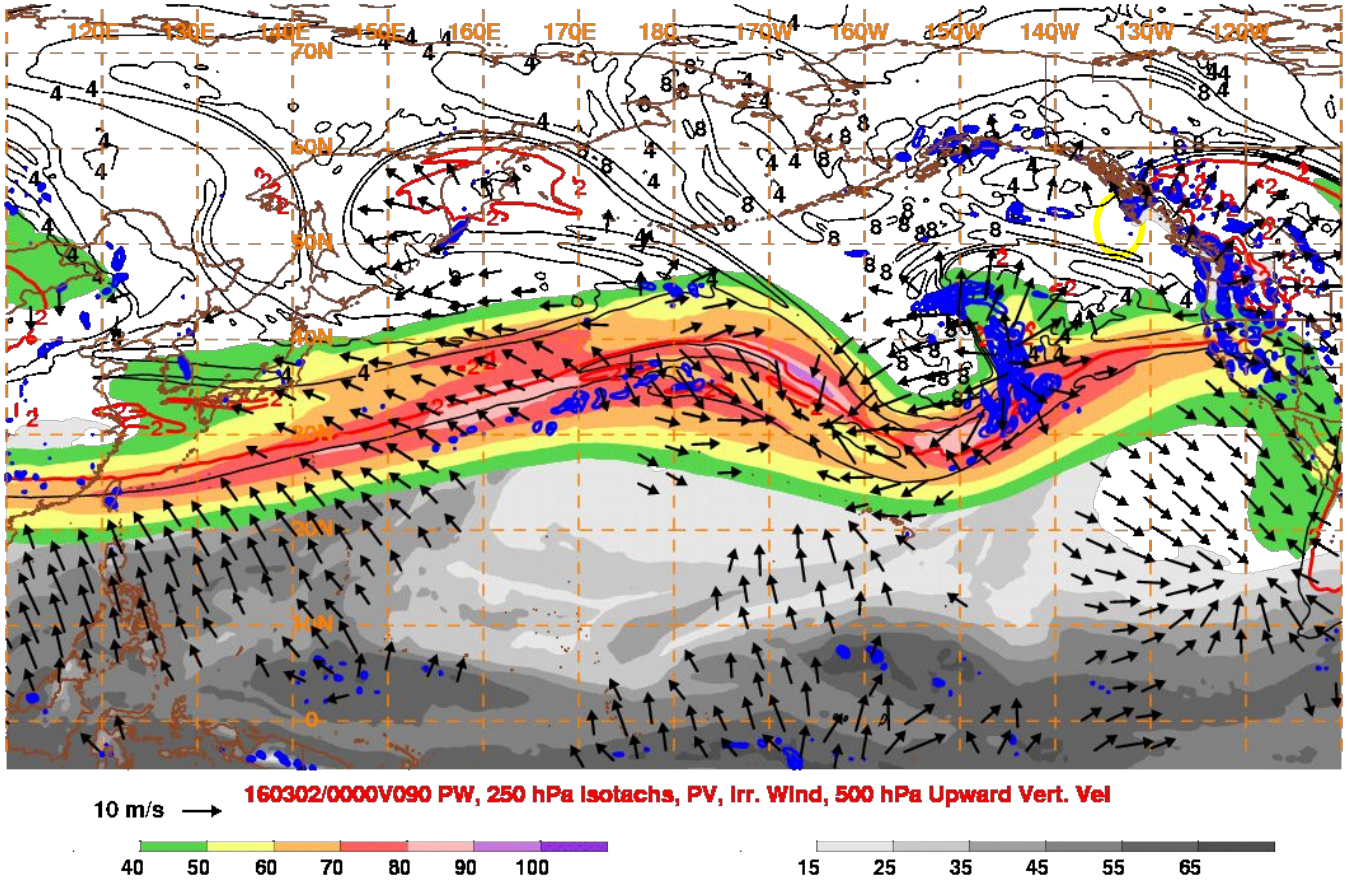
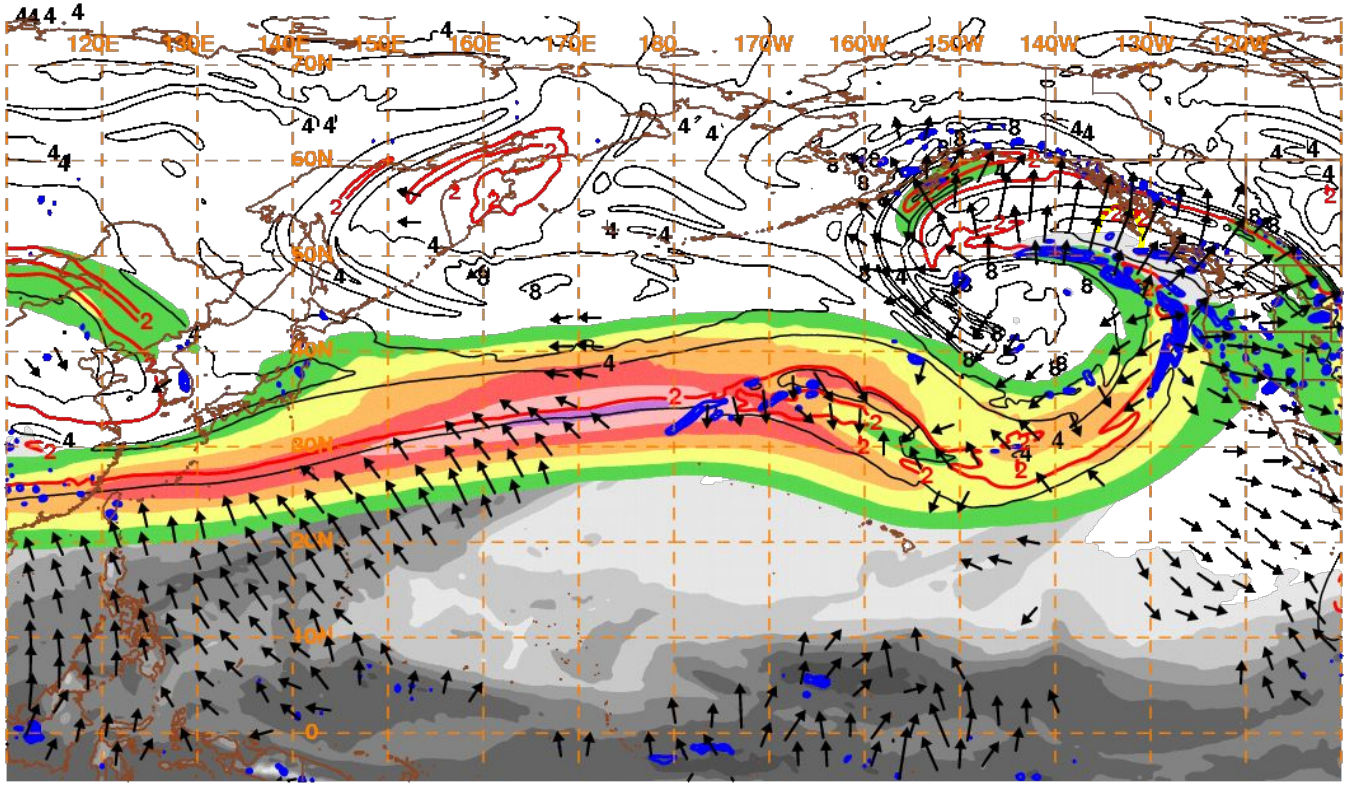
65

00Z WED


120E
130E
140E
150E
160E
170E
180
170W
160W
150W
140W
130W
120W
70N
60N
50N
40N
30N
20N
10N
0
160302/0000V090 PW, 250 hPa Isotachs, PV, Irr. Wind, 500 hPa Upward Vert. Vel
10 m/s
40
50
60
70
80
90
100
15
25
35
45
55
65

00Z THU



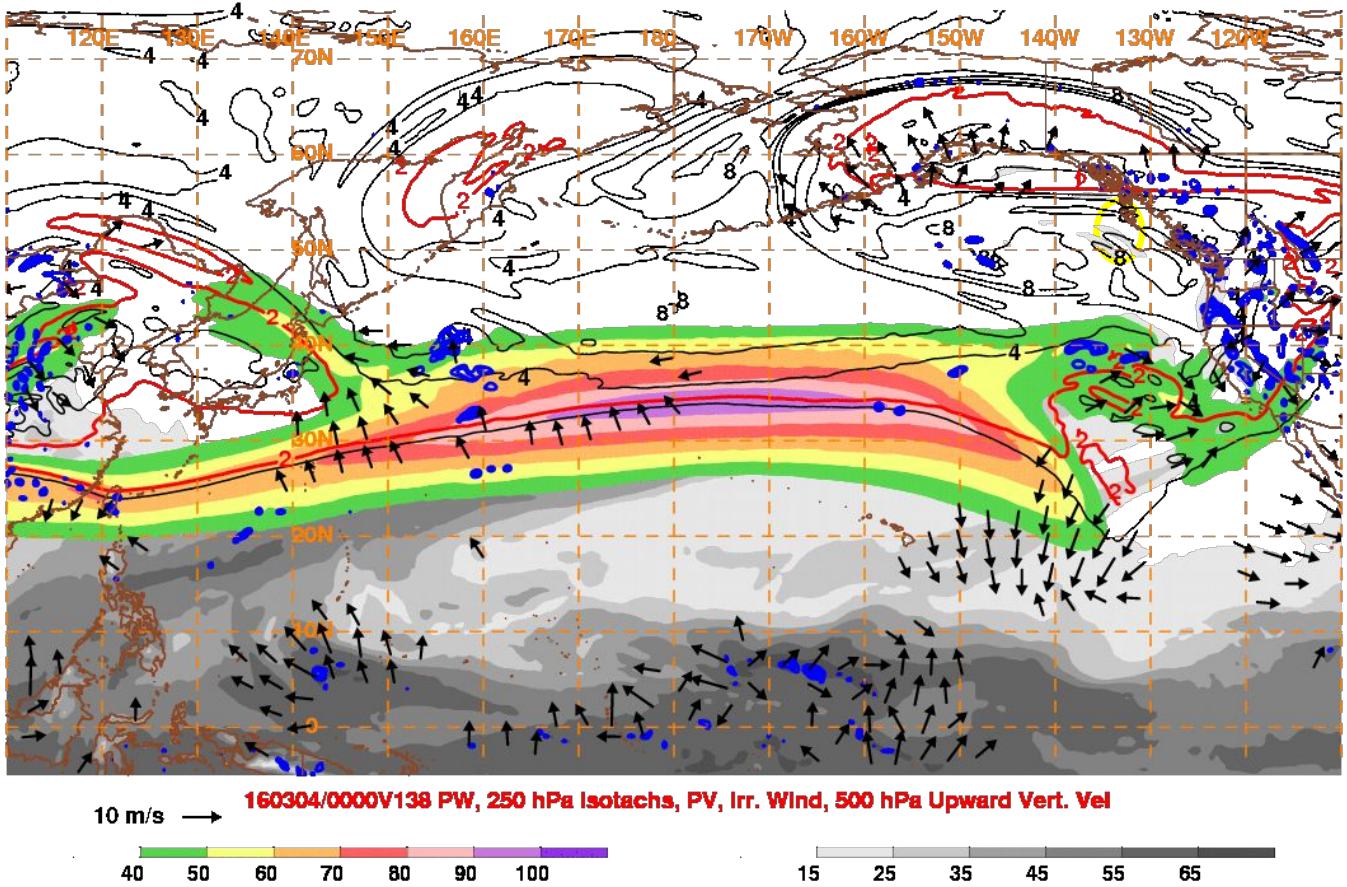
160303/0000V114 PW, 250 hPa Isotachs, PV, Irr. Wind, 500 hPa Upward Vert. Vel

10 m/s →

40 50 60 70 80 90 100

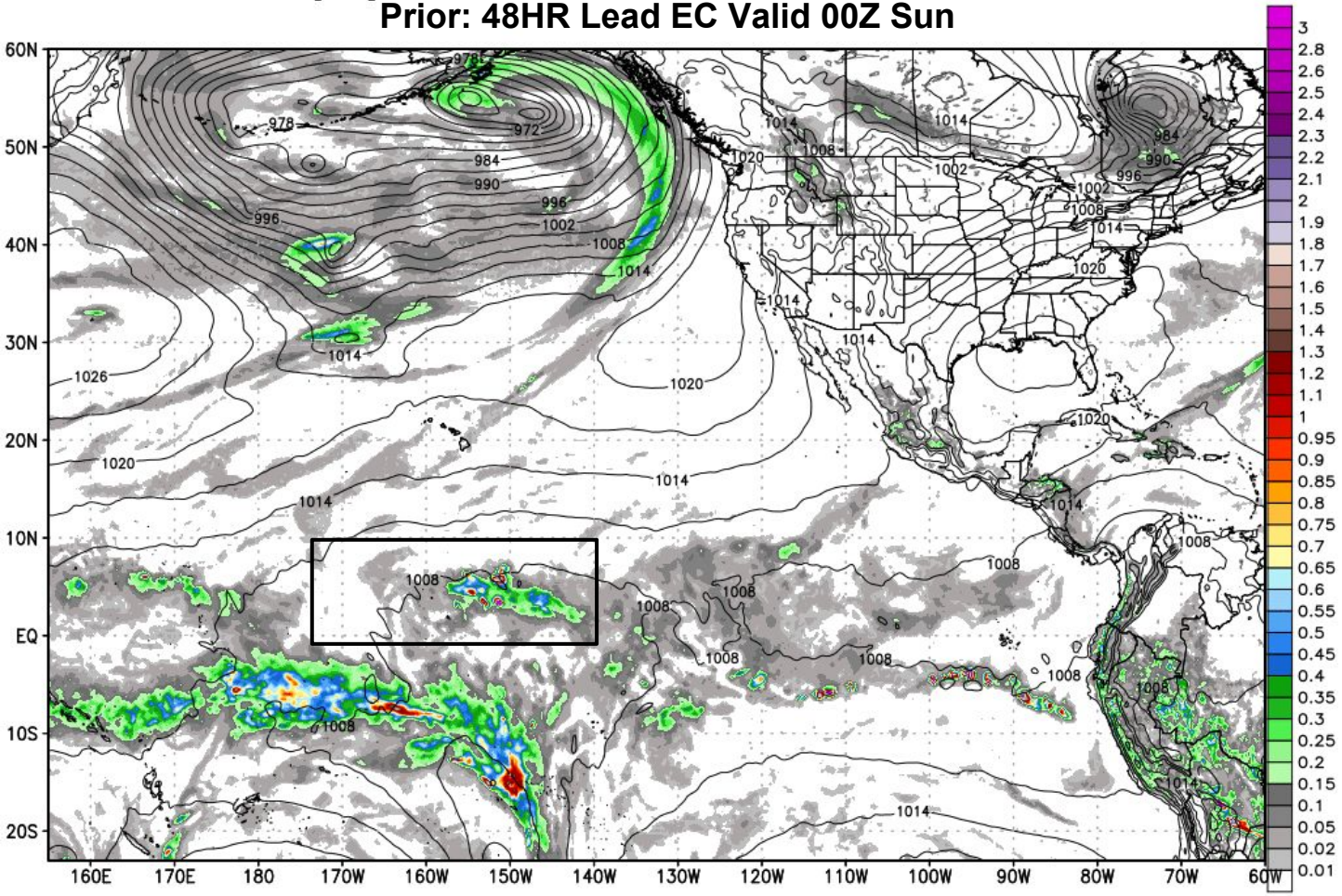
15 25 35 45 55 65

00Z FRI


120E
130E
140E
150E
160E
170E
180
170W
160W
150W
140W
130W
120W
70N
60N
50N
40N
30N
20N
10N
0
10 m/s
160304/0000V138 PW, 250 hPa Isotachs, PV, Irr. Wind, 500 hPa Upward Vert. Vel
40
50
60
70
80
90
100
15
25
35
45
55
65

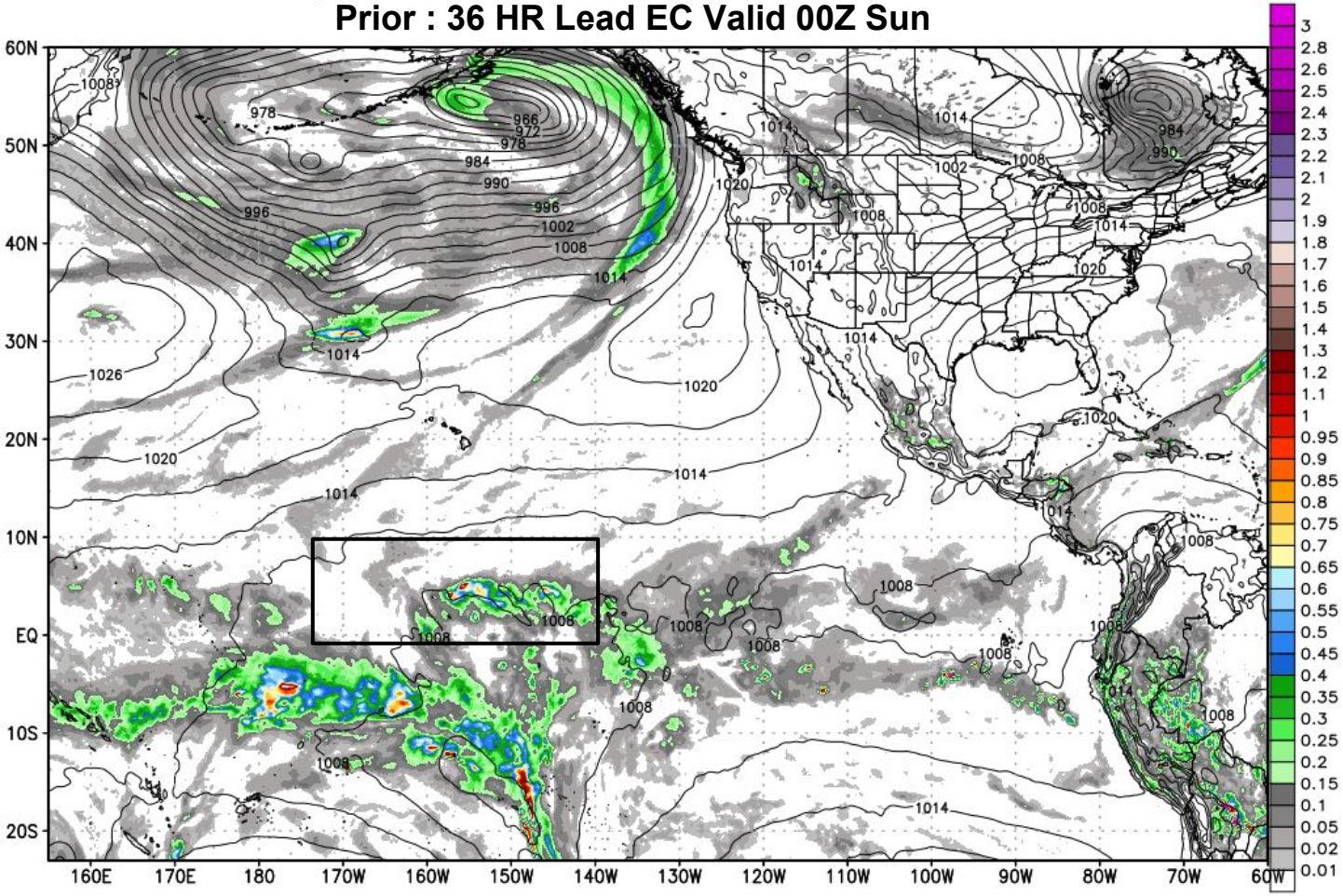
ECMWF 6-hourly Precipitation [inches] between 18Z27FEB2016 -- 00Z28FEB2016 & MSLP [hPa]
INIT: 00Z26FEB2016 fx: [048] hr --> Sun 00Z28FEB2016

Prior: 48HR Lead EC Valid 00Z Sun



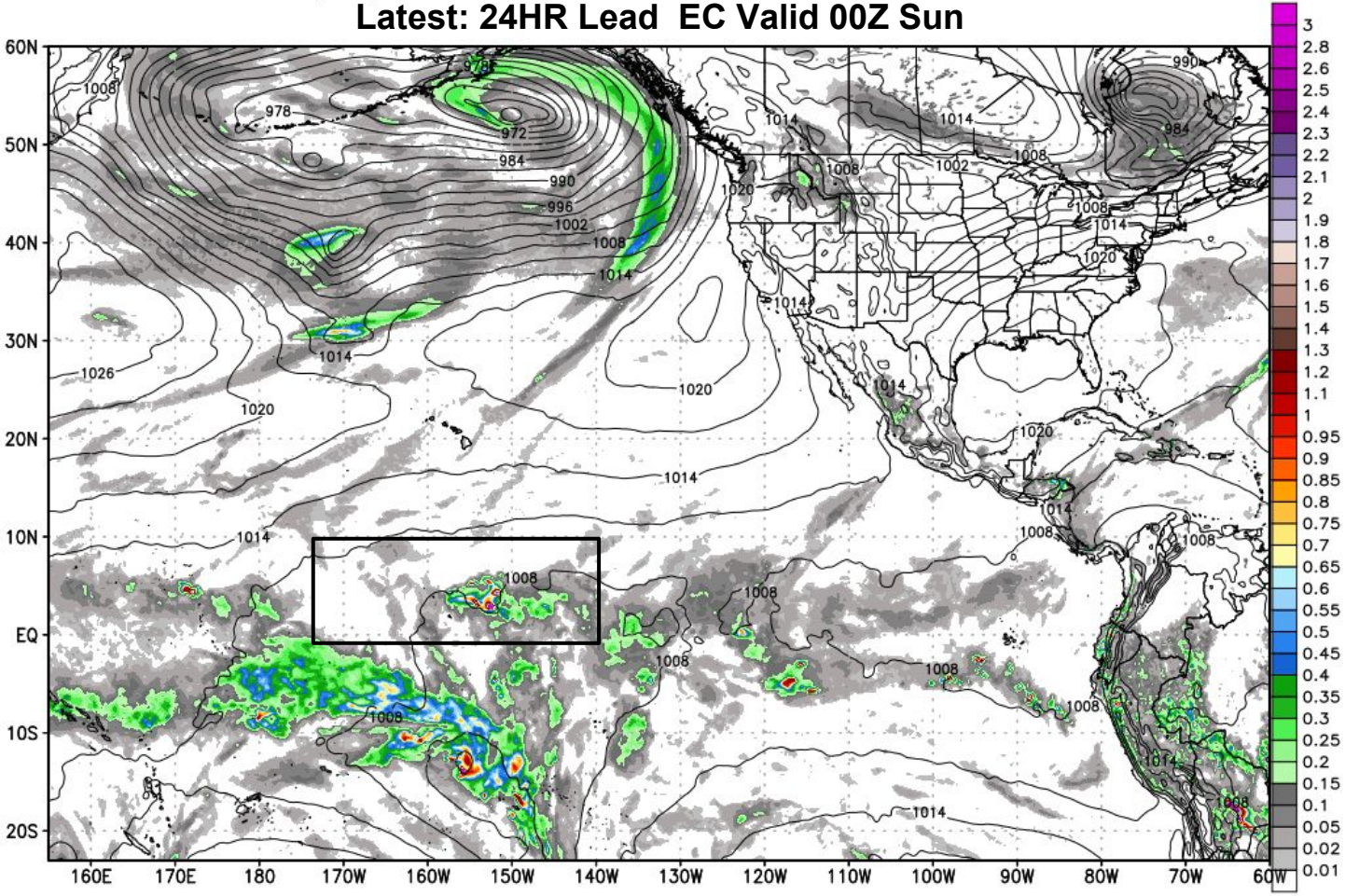
ECMWF 6-hourly Precipitation [inches] between 18Z27FEB2016 -- 00Z28FEB2016 & MSLP [hPa]
INIT: 12Z26FEB2016 fx: [036] hr --> Sun 00Z28FEB2016

Prior : 36 HR Lead EC Valid 00Z Sun



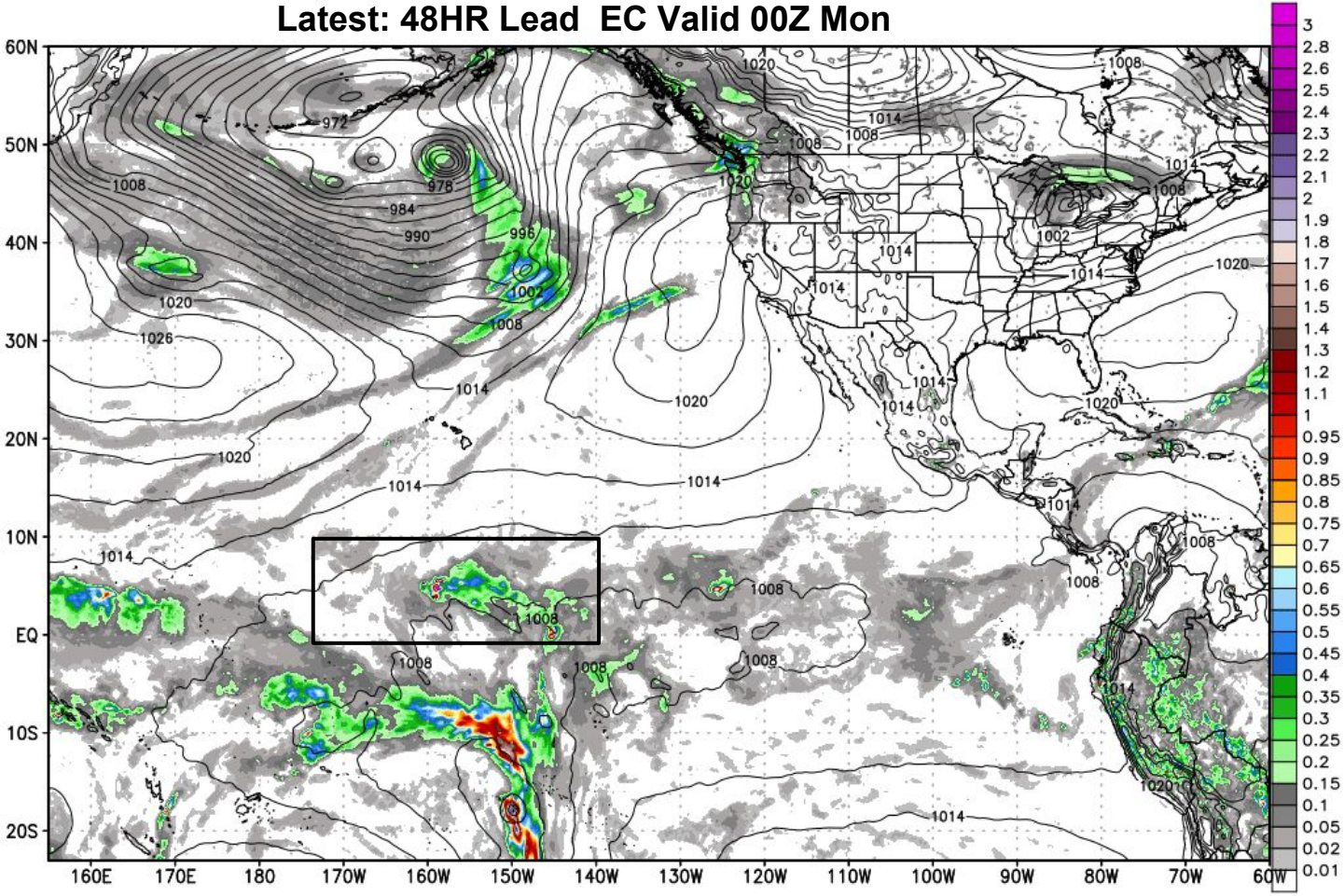
ECMWF 6-hourly Precipitation [inches] between 18Z27FEB2016 -- 00Z28FEB2016 & MSLP [hPa]
INIT: 00Z27FEB2016 fx: [024] hr --> Sun 00Z28FEB2016

Latest: 24HR Lead EC Valid 00Z Sun



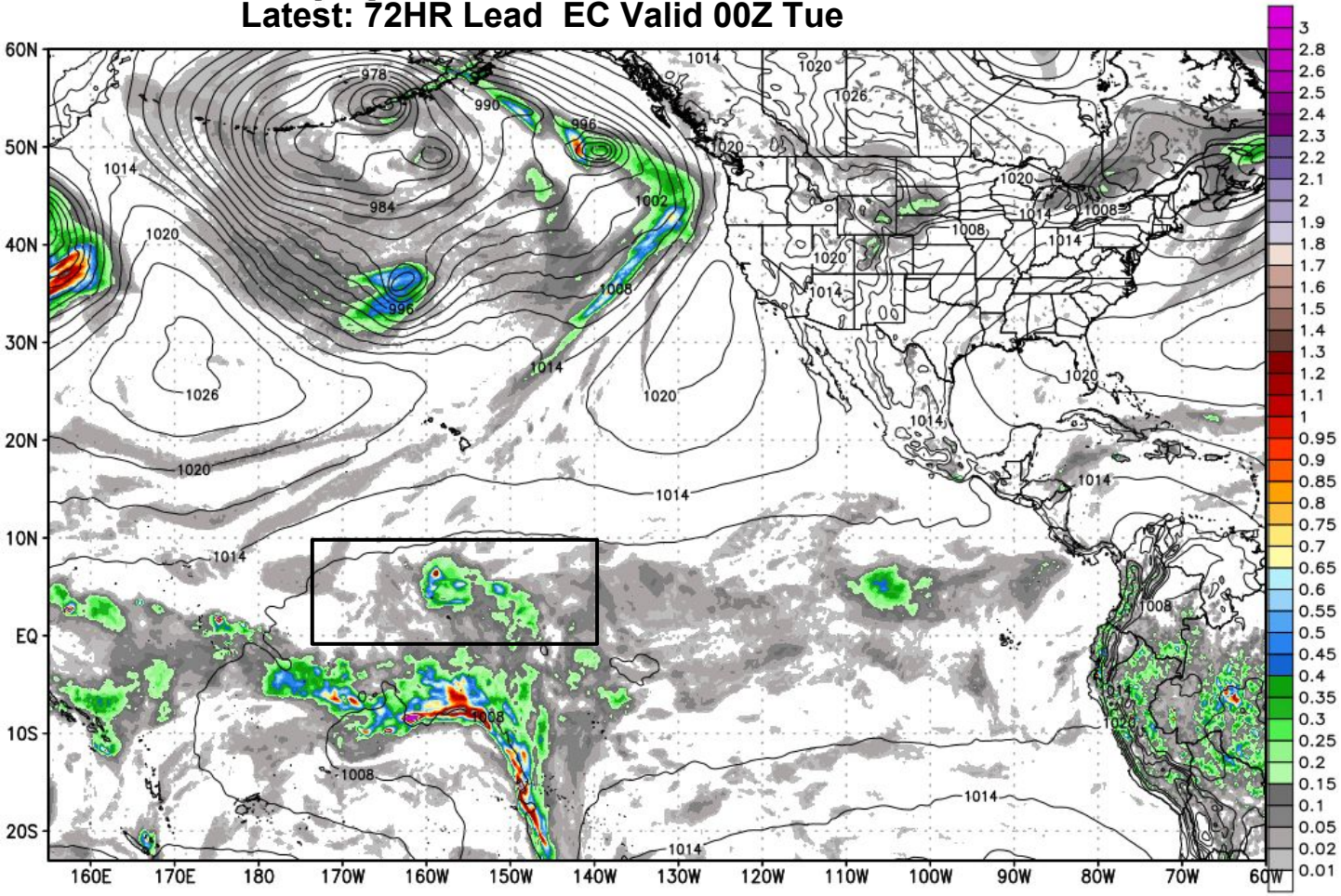
ECMWF 6-hourly Precipitation [inches] between 18Z28FEB2016 -- 00Z29FEB2016 & MSLP [hPa]
INIT: 00Z27FEB2016 fx: [048] hr --> Mon 00Z29FEB2016

Latest: 48HR Lead EC Valid 00Z Mon



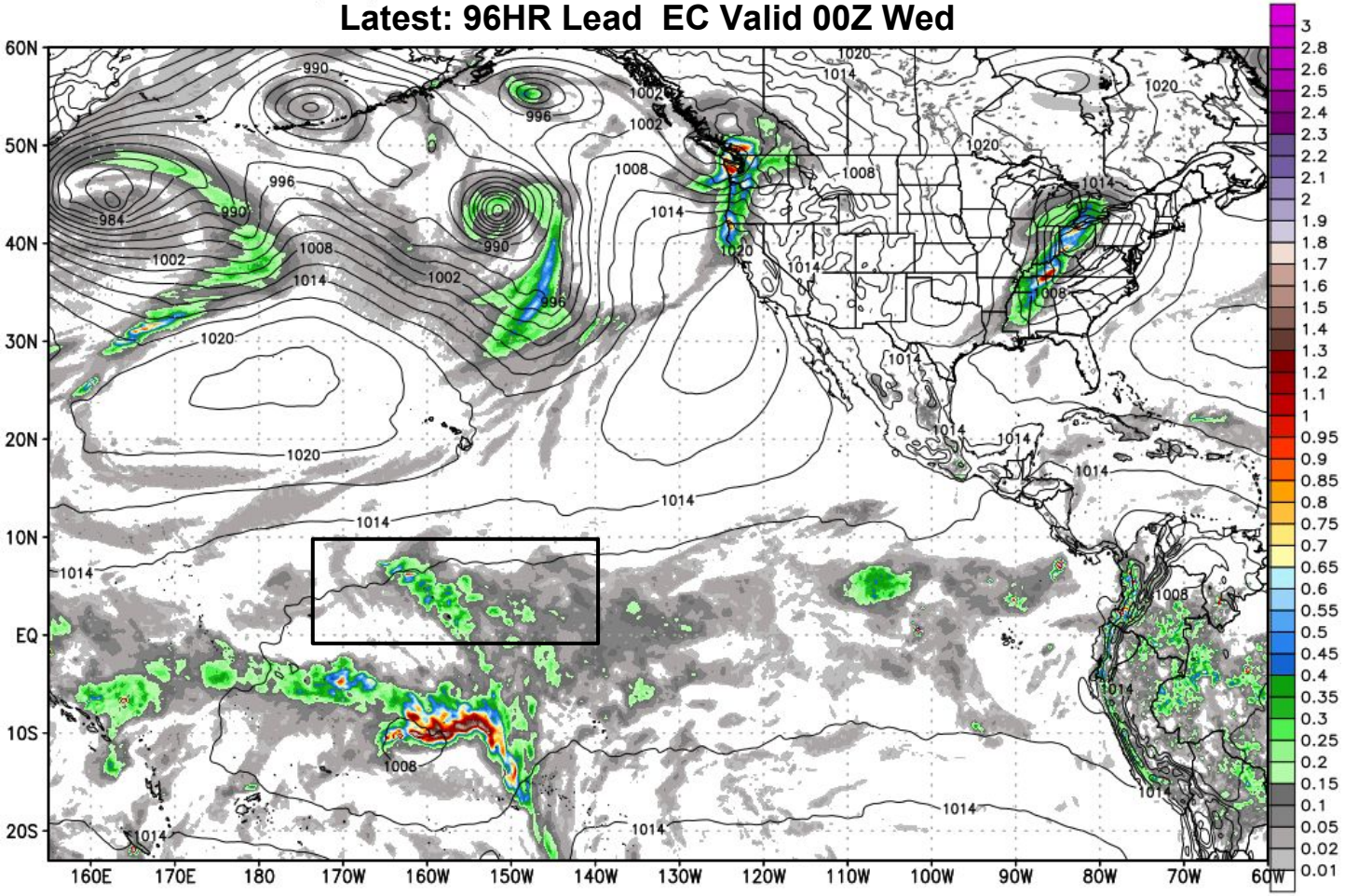
ECMWF 6-hourly Precipitation [inches] between 18Z29FEB2016 -- 00Z01MAR2016 & MSLP [hPa]
INIT: 00Z27FEB2016 fx: [072] hr --> Tue 00Z01MAR2016

Latest: 72HR Lead EC Valid 00Z Tue



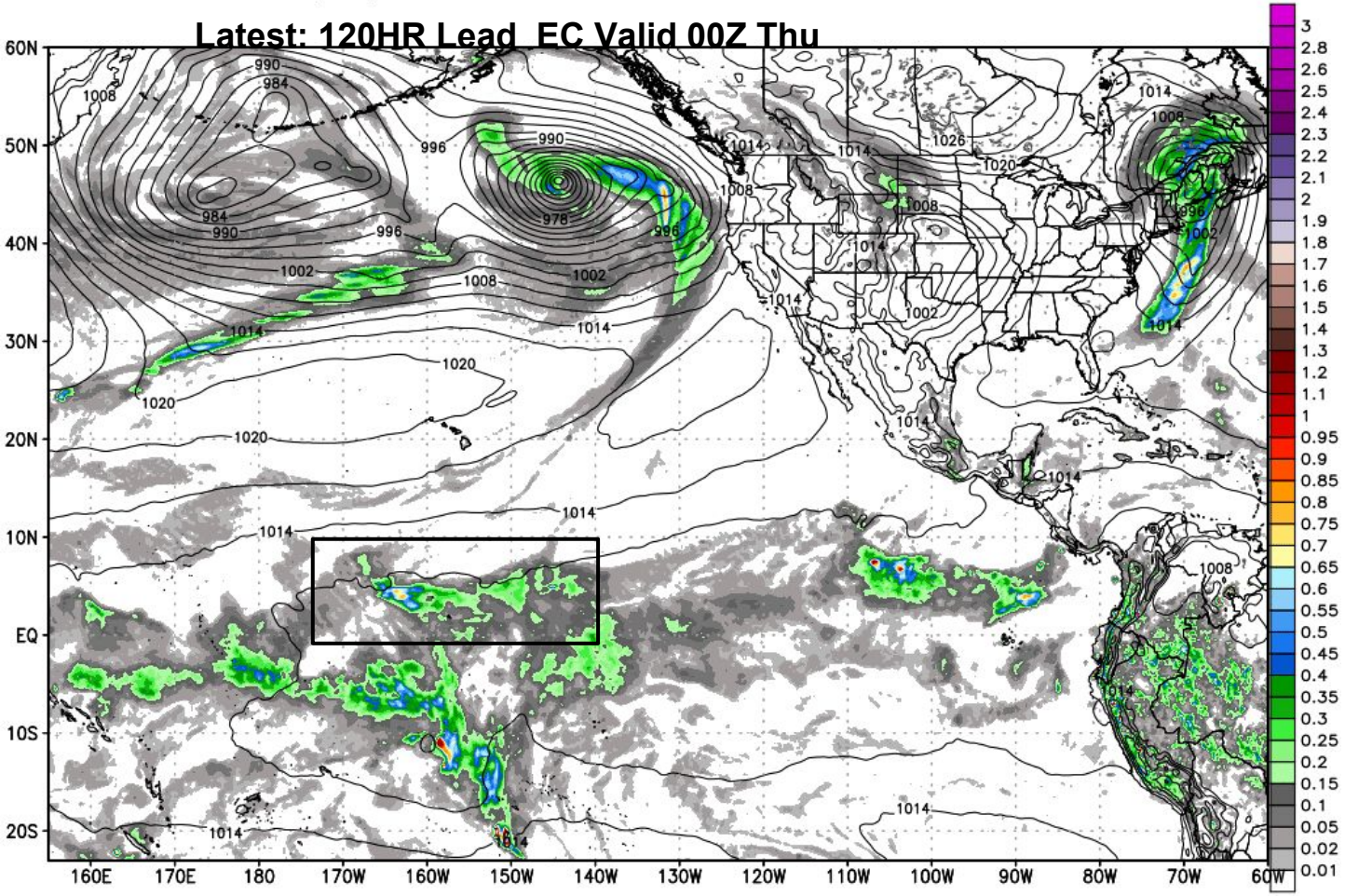
ECMWF 6-hourly Precipitation [inches] between 18Z01MAR2016 -- 00Z02MAR2016 & MSLP [hPa]
INIT: 00Z27FEB2016 fx: [096] hr --> Wed 00Z02MAR2016

Latest: 96HR Lead EC Valid 00Z Wed

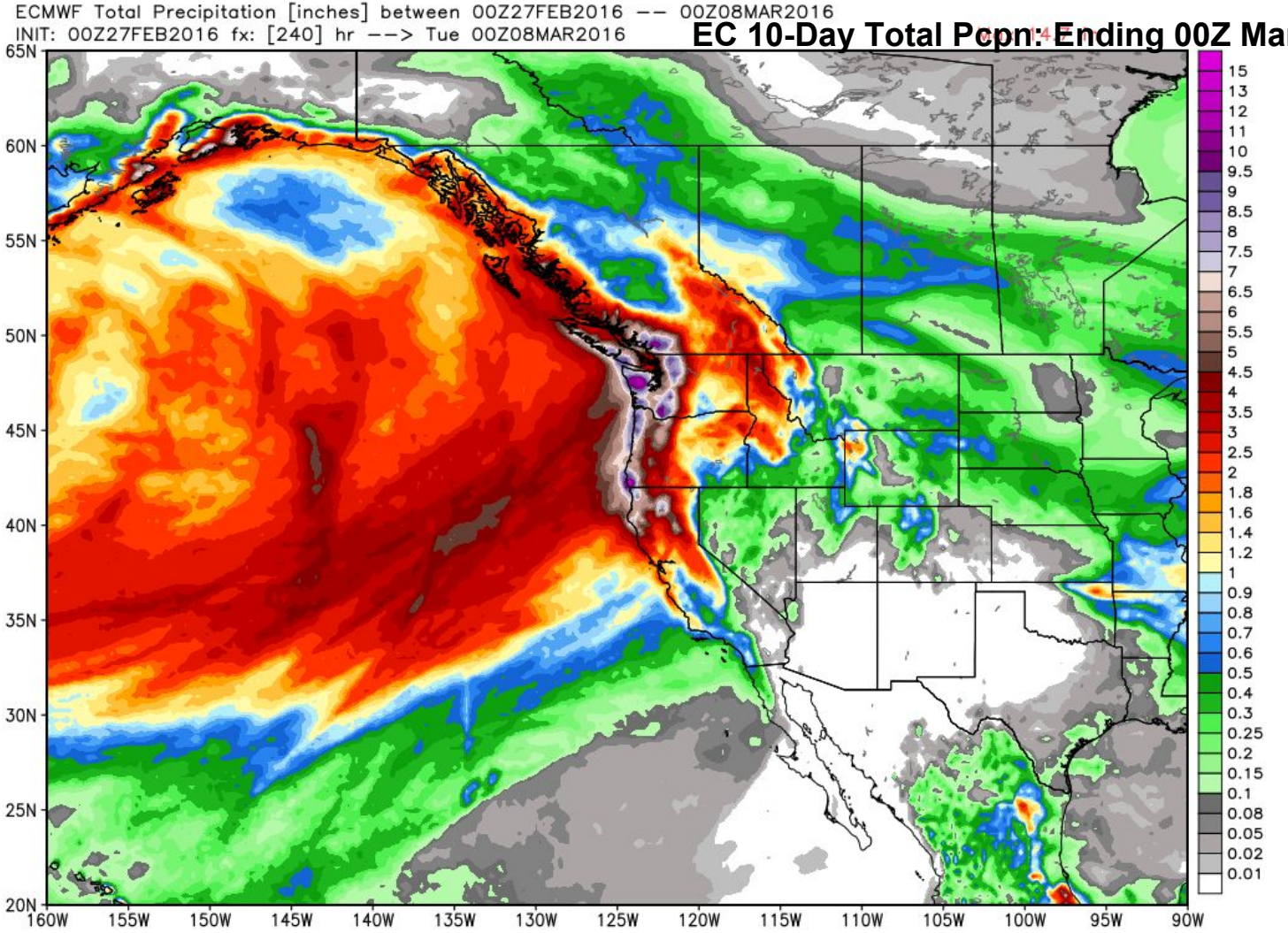


ECMWF 6-hourly Precipitation [inches] between 18Z02MAR2016 -- 00Z03MAR2016 & MSLP [hPa]
INIT: 00Z27FEB2016 fx: [120] hr --> Thu 00Z03MAR2016

Latest: 120HR Lead EC Valid 00Z Thu



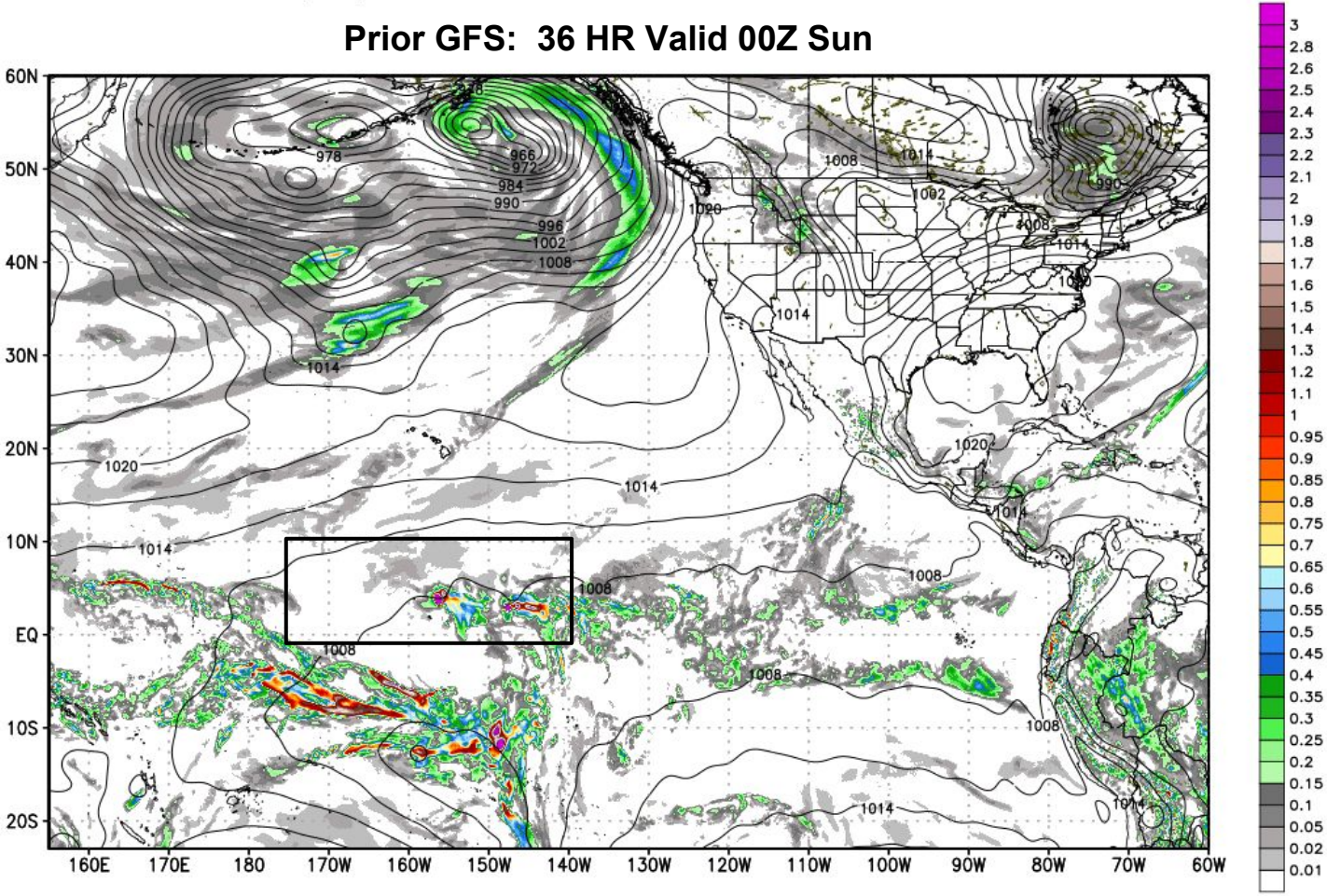
EC 10-Day Total Pcpn: Ending 00Z Mar 8



NCEP GFS 6-hourly Precipitation [inch] & MSLP [hPa]
INIT: 12Z26FEB2016 fx: [036] hr --> Sun 00Z28FEB2016

Max: 7.6 in.

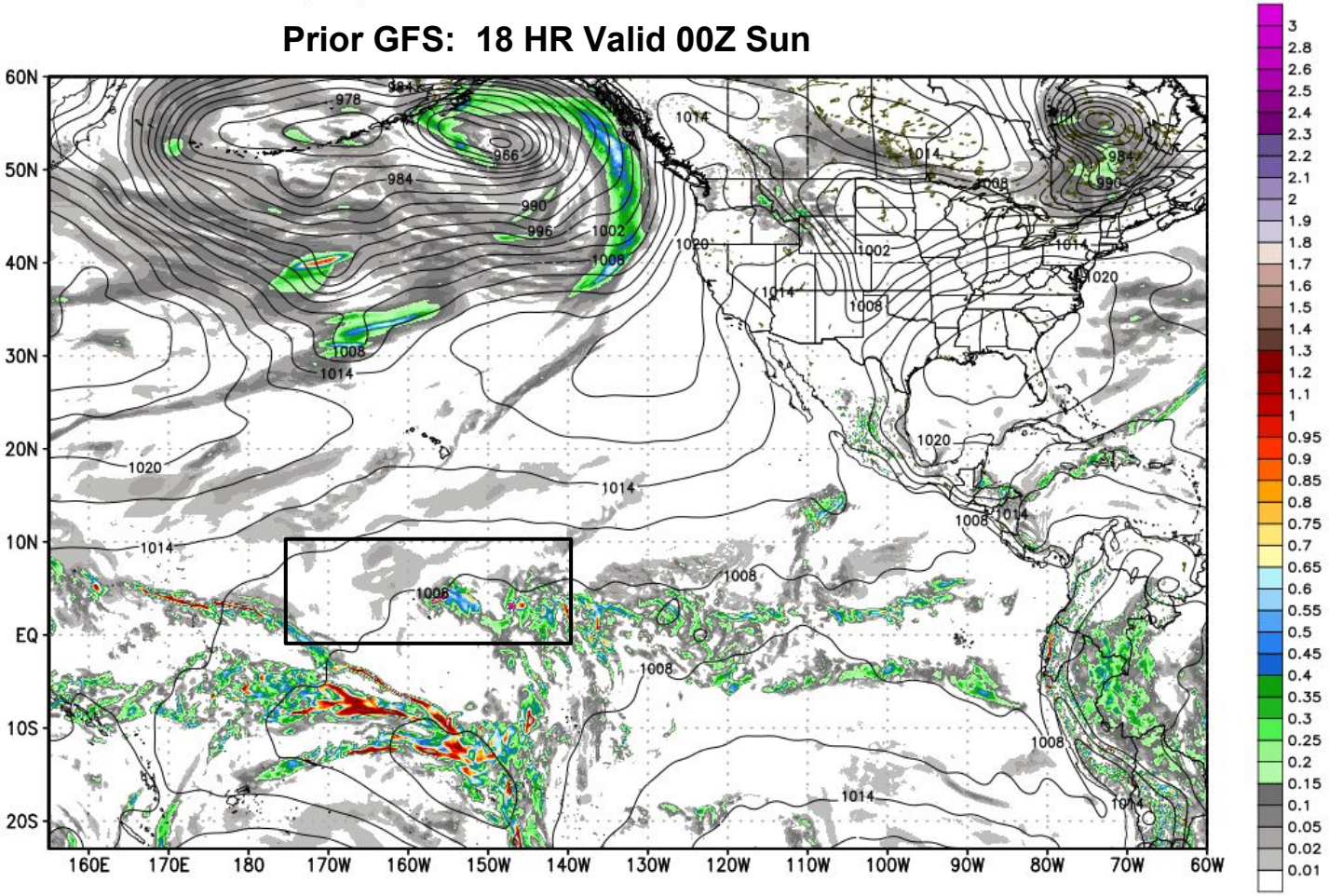
Prior GFS: 36 HR Valid 00Z Sun



NCEP GFS 6-hourly Precipitation [inch] & MSLP [hPa]
INIT: 06Z27FEB2016 fx: [018] hr --> Sun 00Z28FEB2016

Max: 4.0 in.

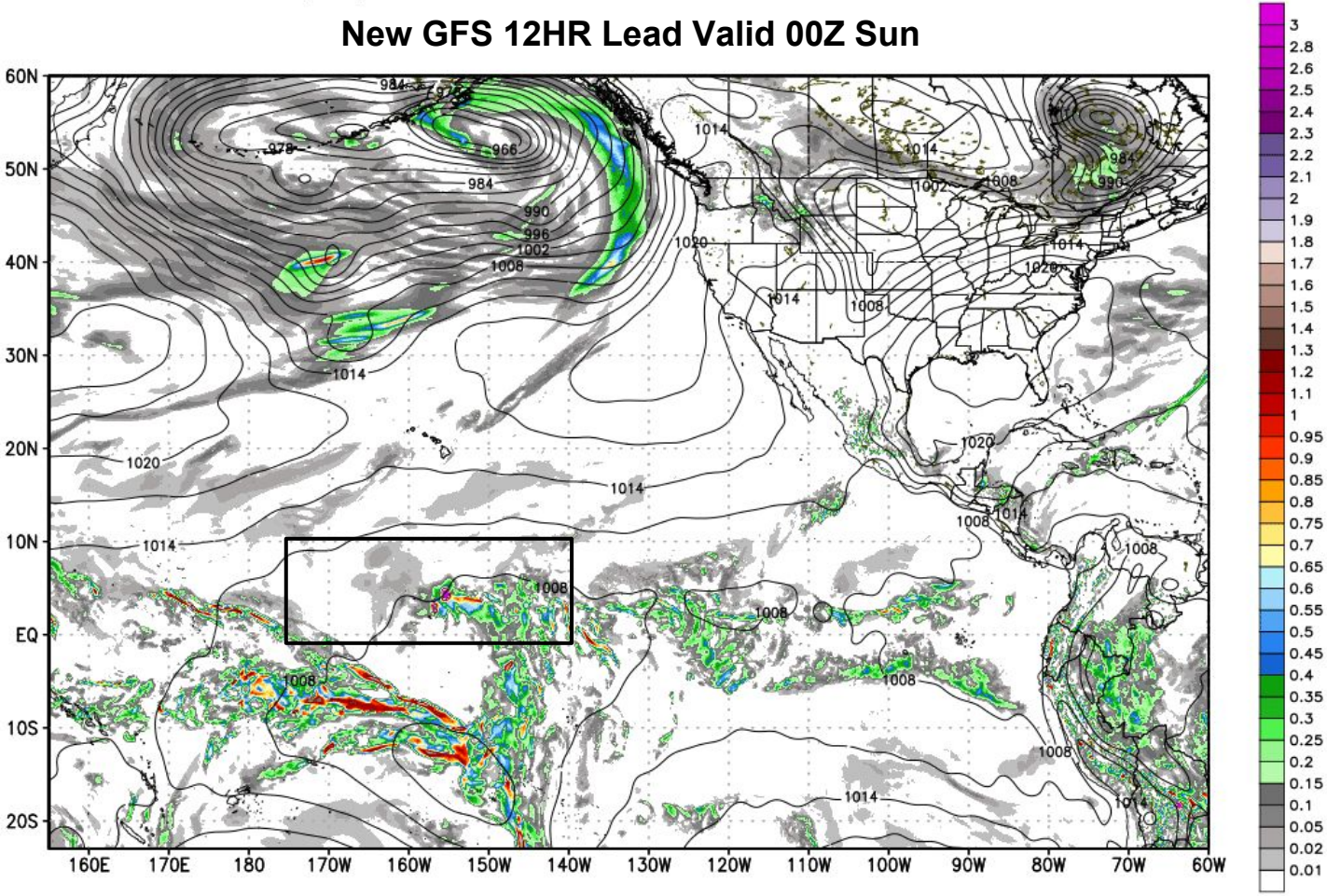
Prior GFS: 18 HR Valid 00Z Sun



NCEP GFS 6-hourly Precipitation [inch] & MSLP [hPa]
INIT: 12Z27FEB2016 fx: [012] hr --> Sun 00Z28FEB2016

Max: 5.3 in.

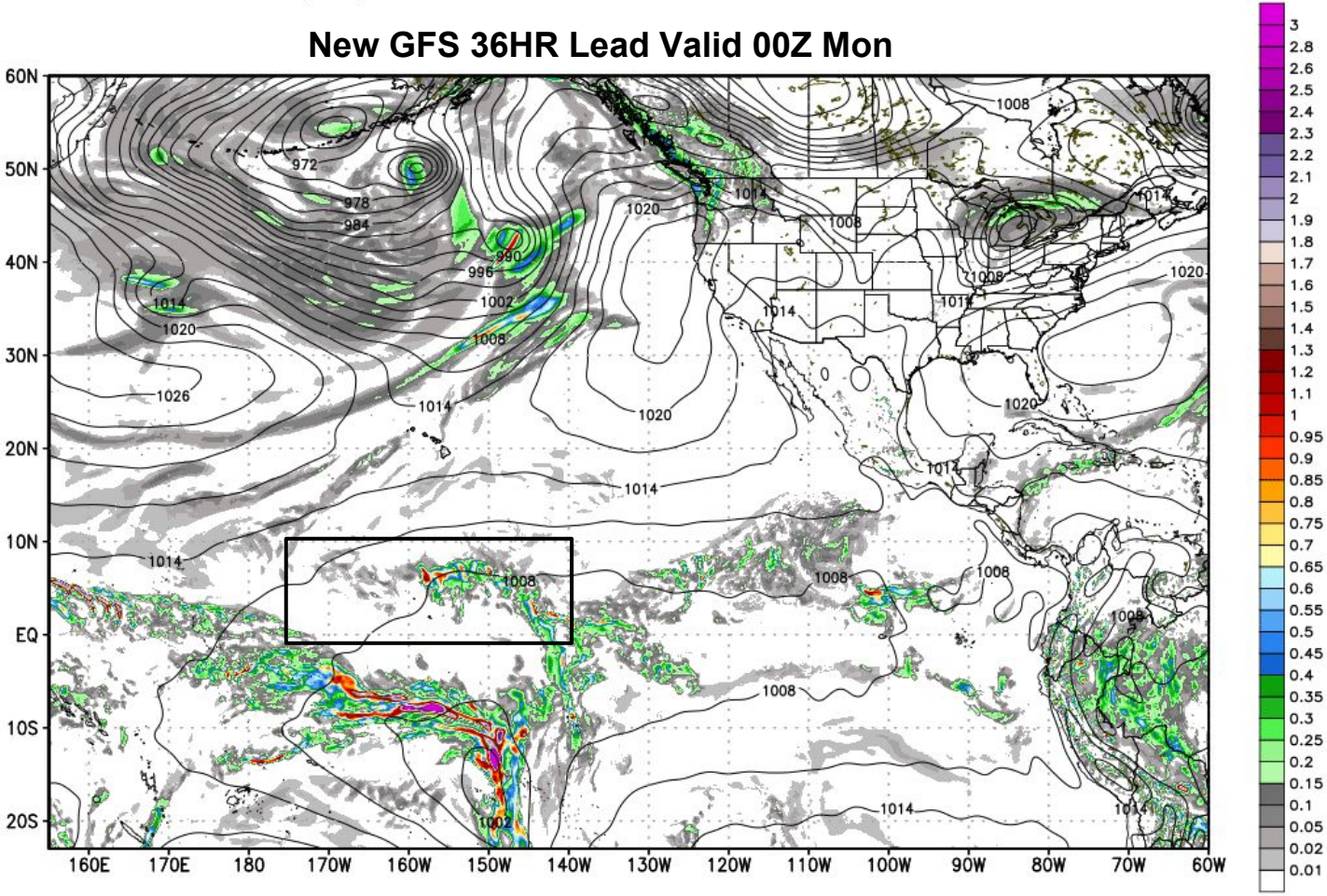
New GFS 12HR Lead Valid 00Z Sun



NCEP GFS 6-hourly Precipitation [inch] & MSLP [hPa]
INIT: 12Z27FEB2016 fx: [036] hr --> Mon 00Z29FEB2016

Max: 7.7 in.

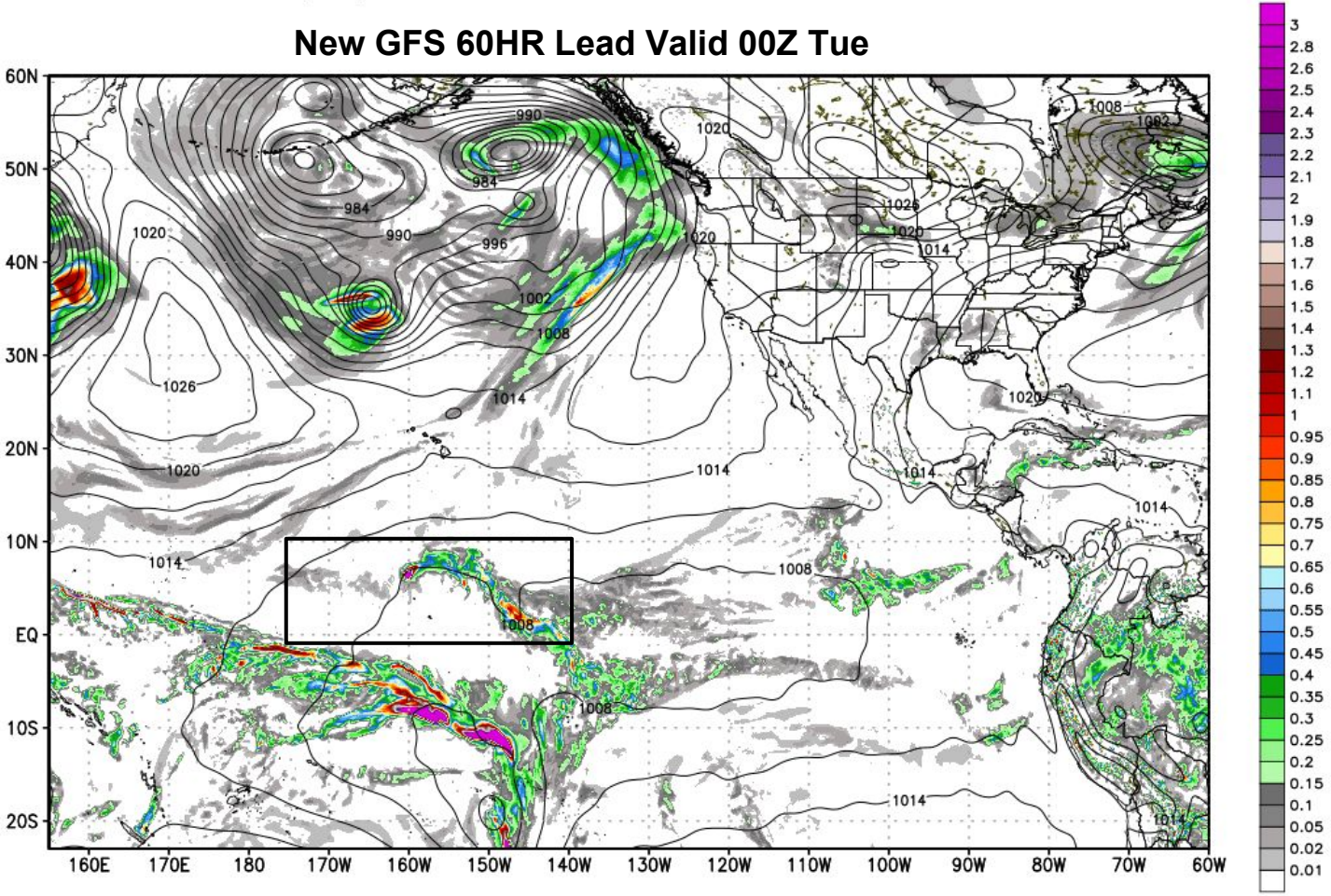
New GFS 36HR Lead Valid 00Z Mon



NCEP GFS 6-hourly Precipitation [inch] & MSLP [hPa]
INIT: 12Z27FEB2016 fx: [060] hr --> Tue 00Z01MAR2016

Max: 8.0 in.

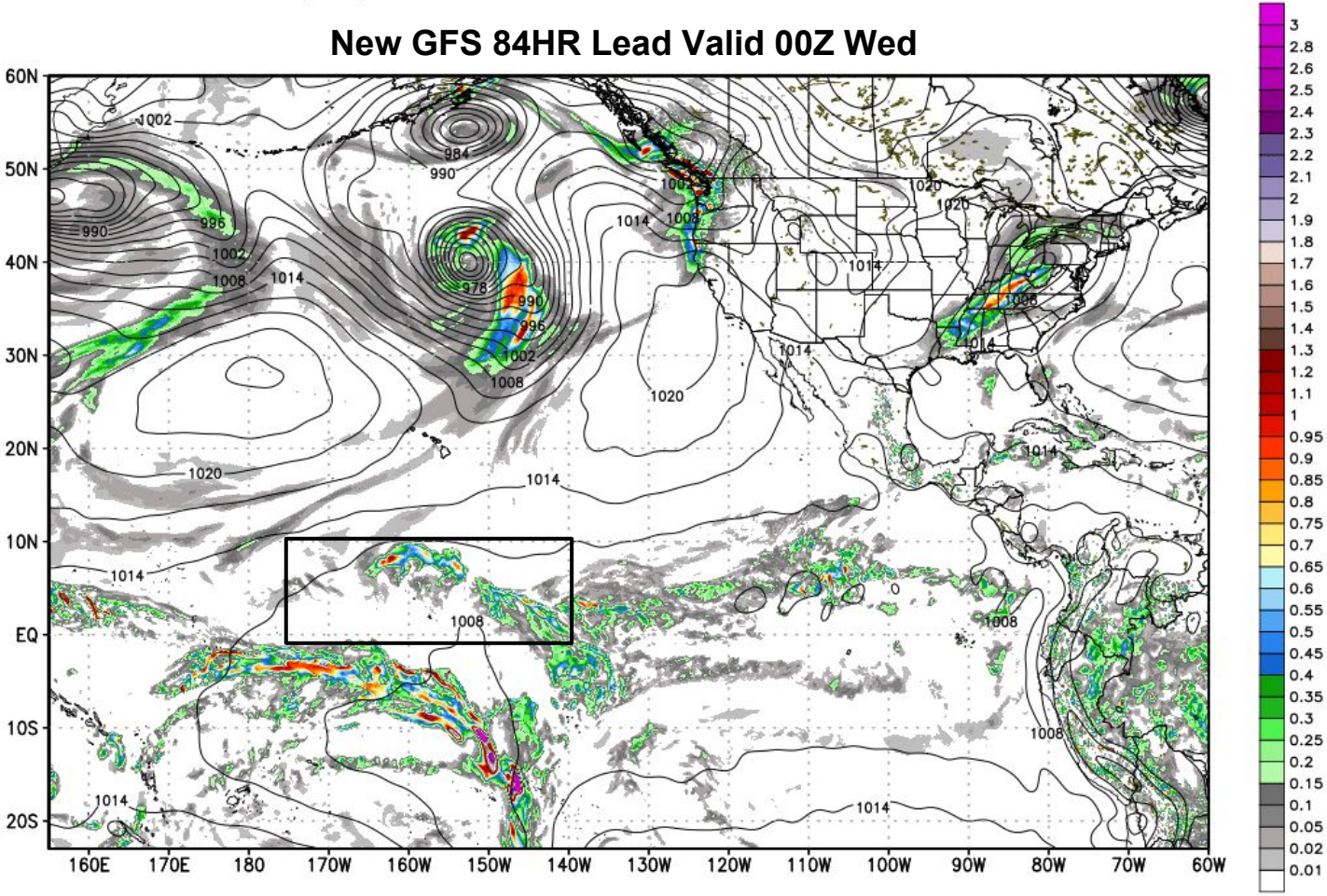
New GFS 60HR Lead Valid 00Z Tue



NCEP GFS 6-hourly Precipitation [inch] & MSLP [hPa]
INIT: 12Z27FEB2016 fx: [084] hr --> Wed 00Z02MAR2016

Max: 7.9 in.

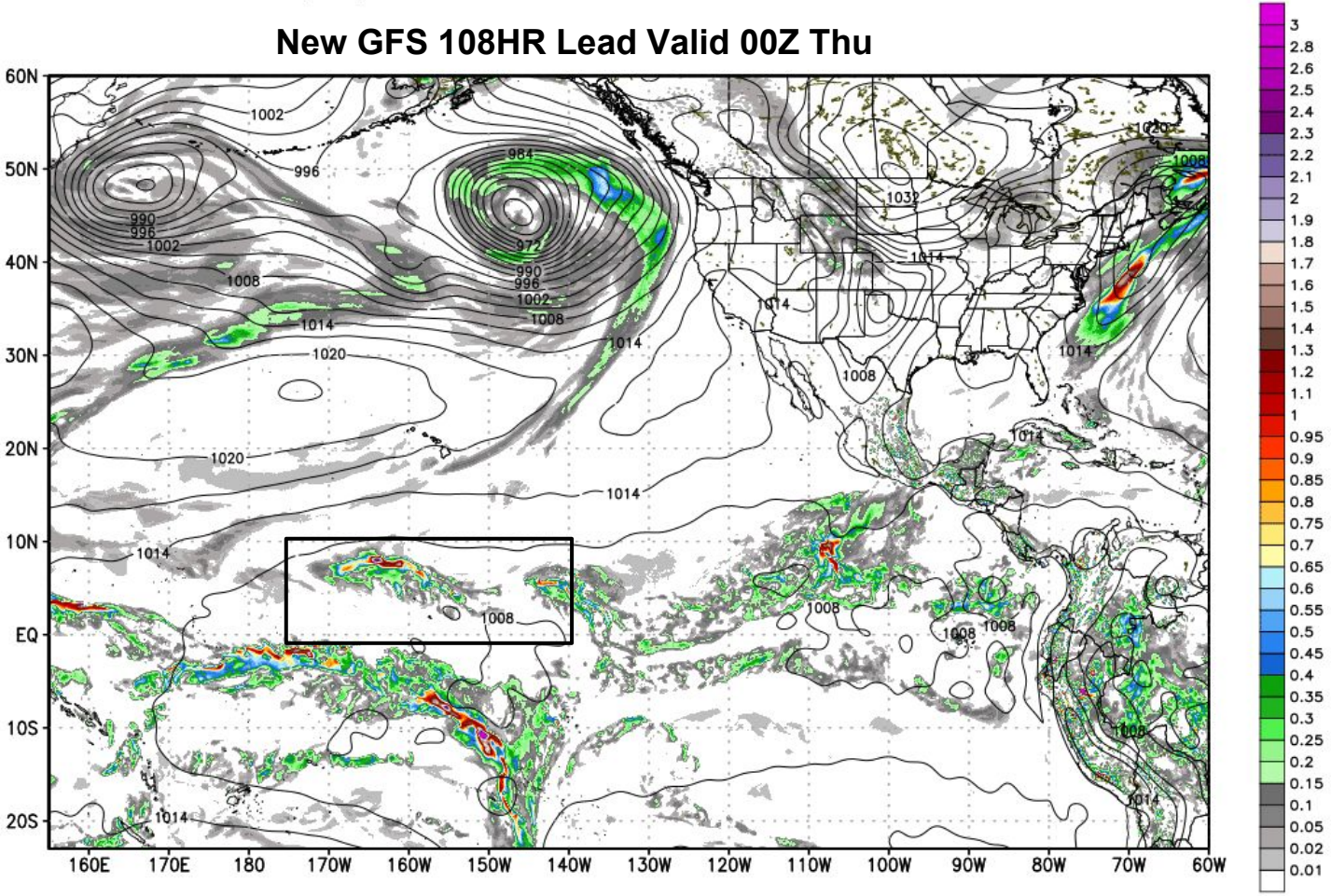
New GFS 84HR Lead Valid 00Z Wed



NCEP GFS 6-hourly Precipitation [inch] & MSLP [hPa]
INIT: 12Z27FEB2016 fx: [108] hr --> Thu 00Z03MAR2016

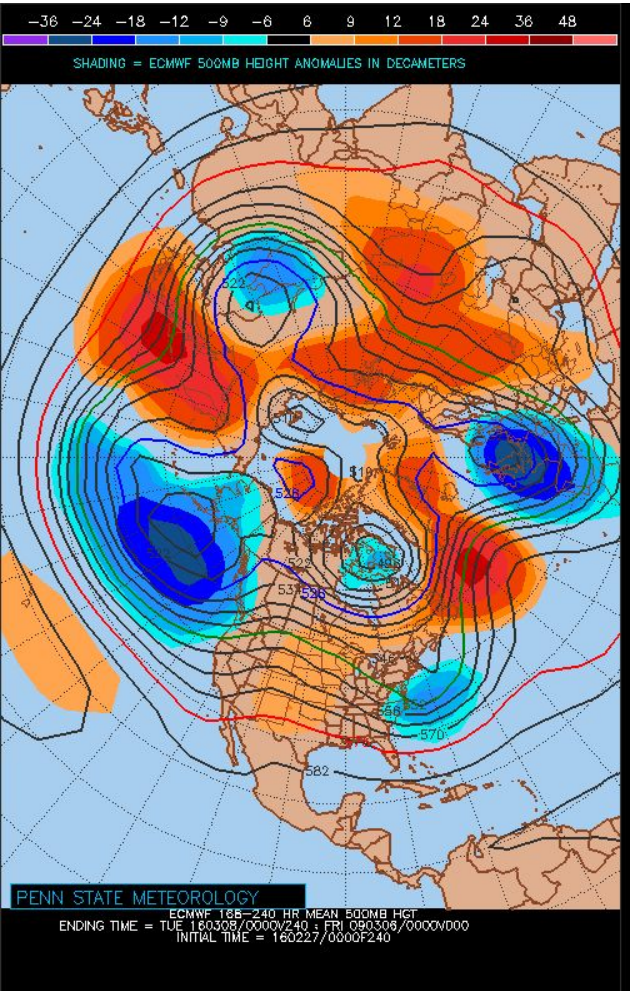
Max: 4.0 in.

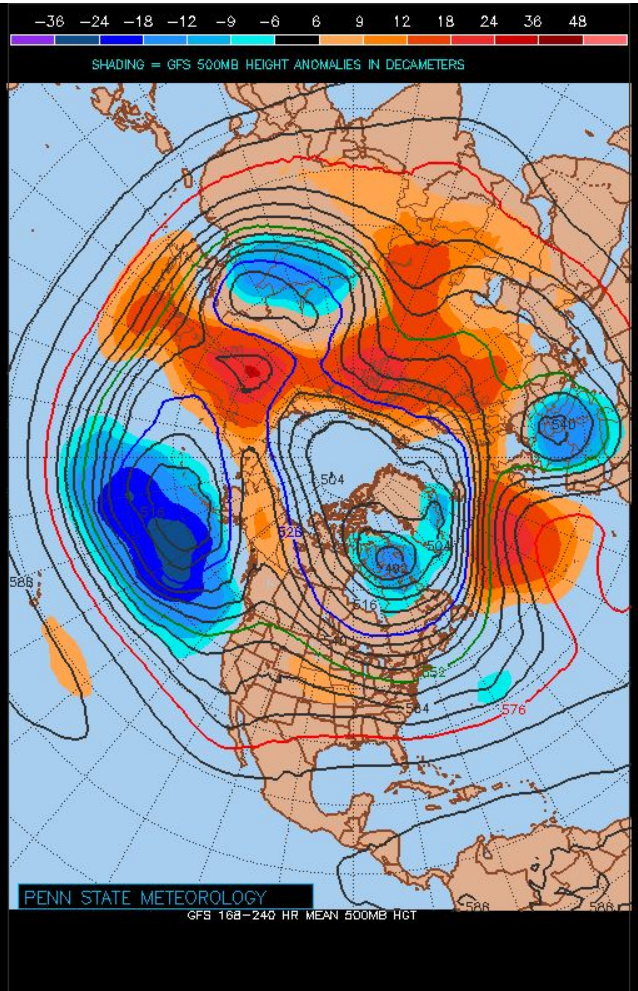
New GFS 108HR Lead Valid 00Z Thu

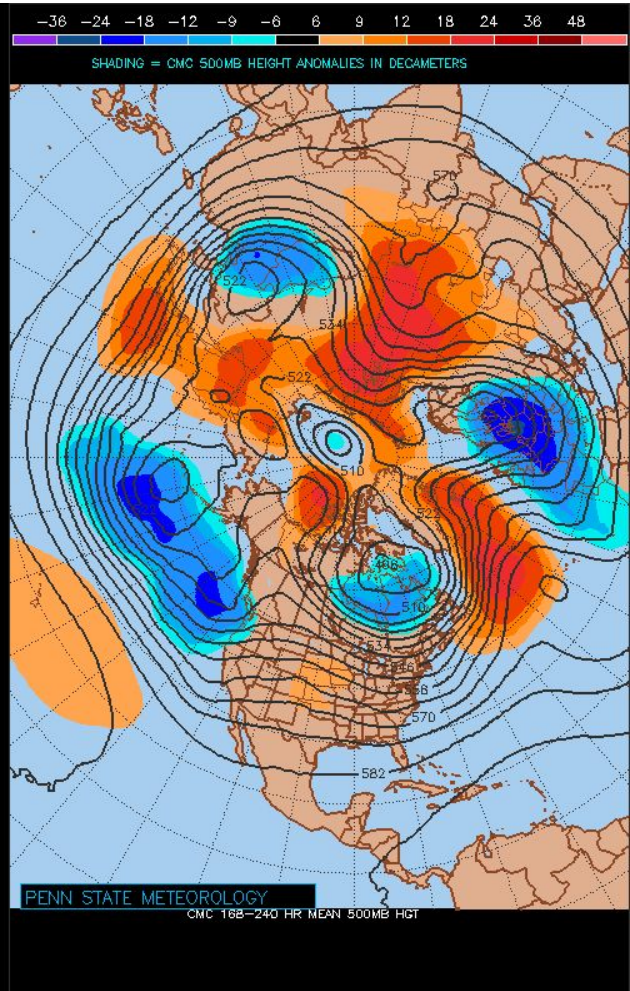


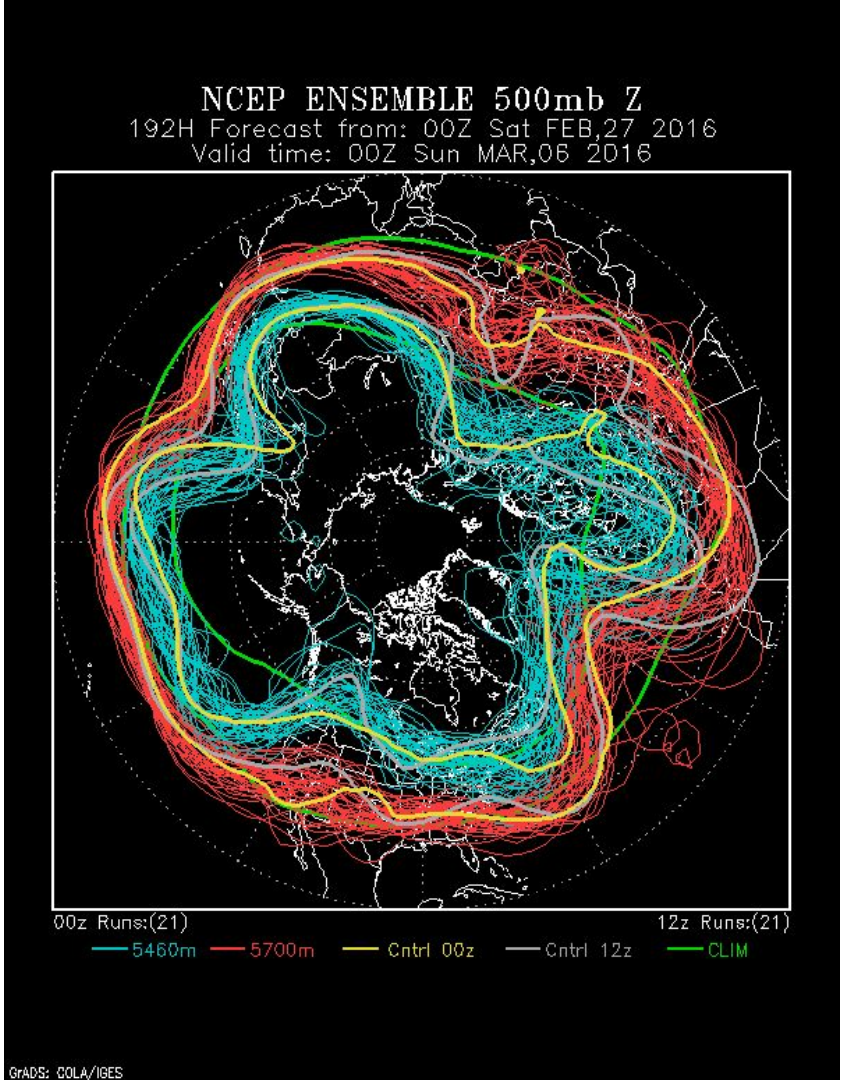
Medium - Long Range Forecast

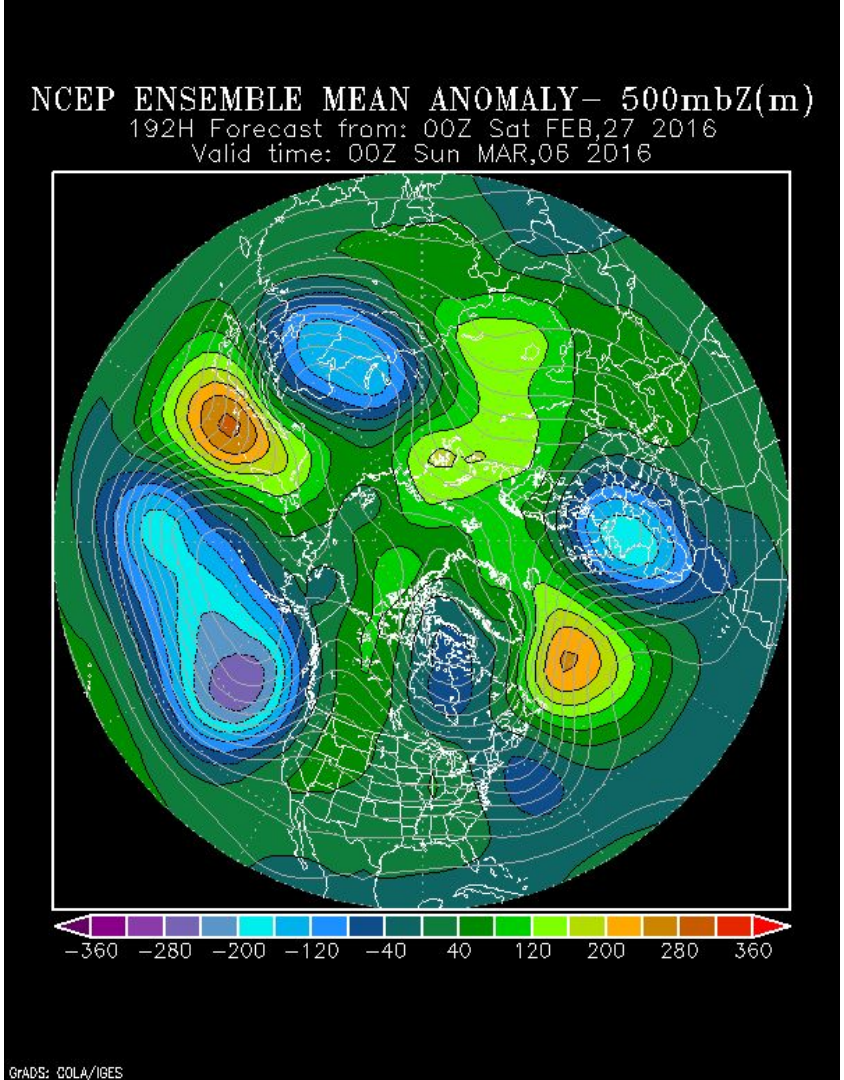
Day 7-10 Initialized 00Z SAT 27Feb

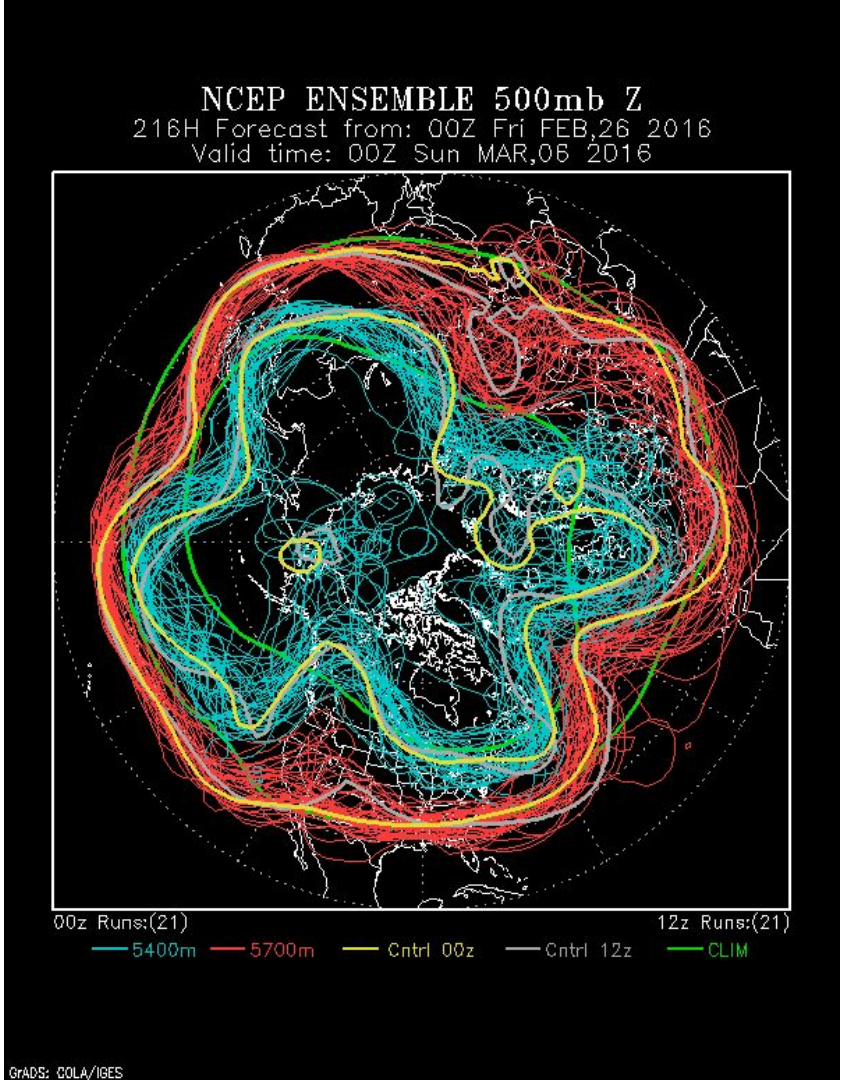


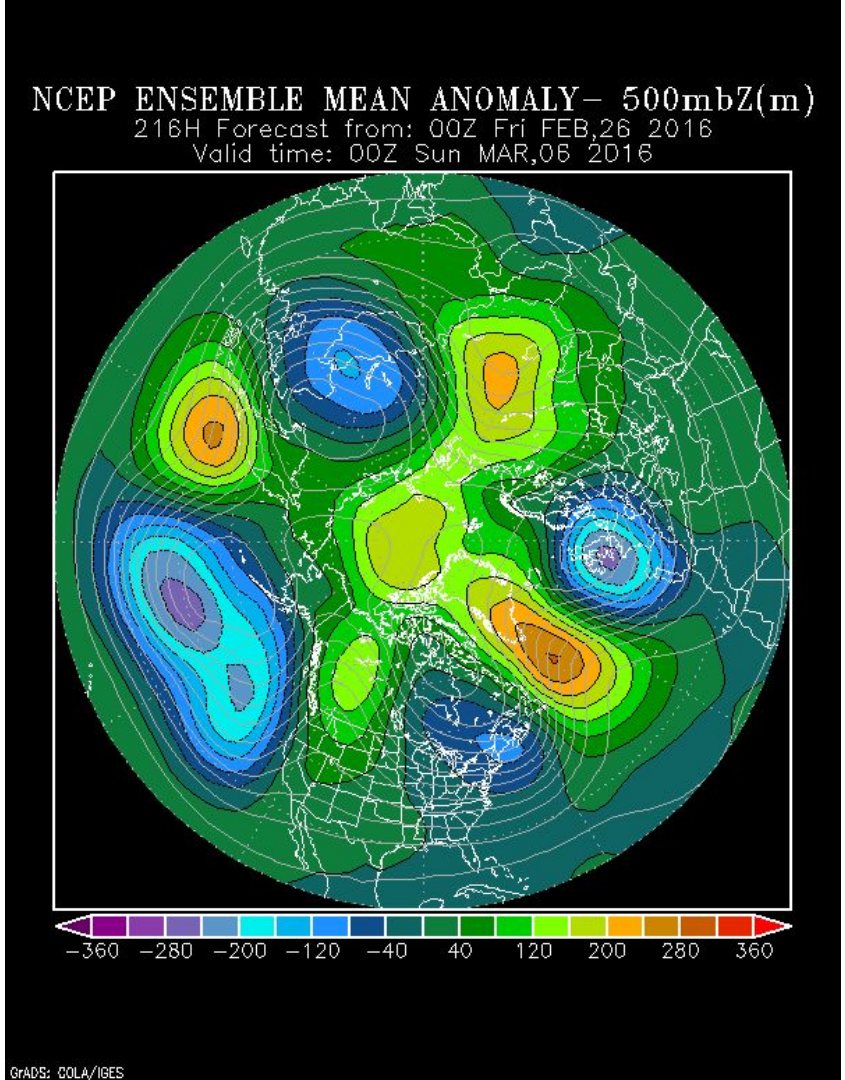


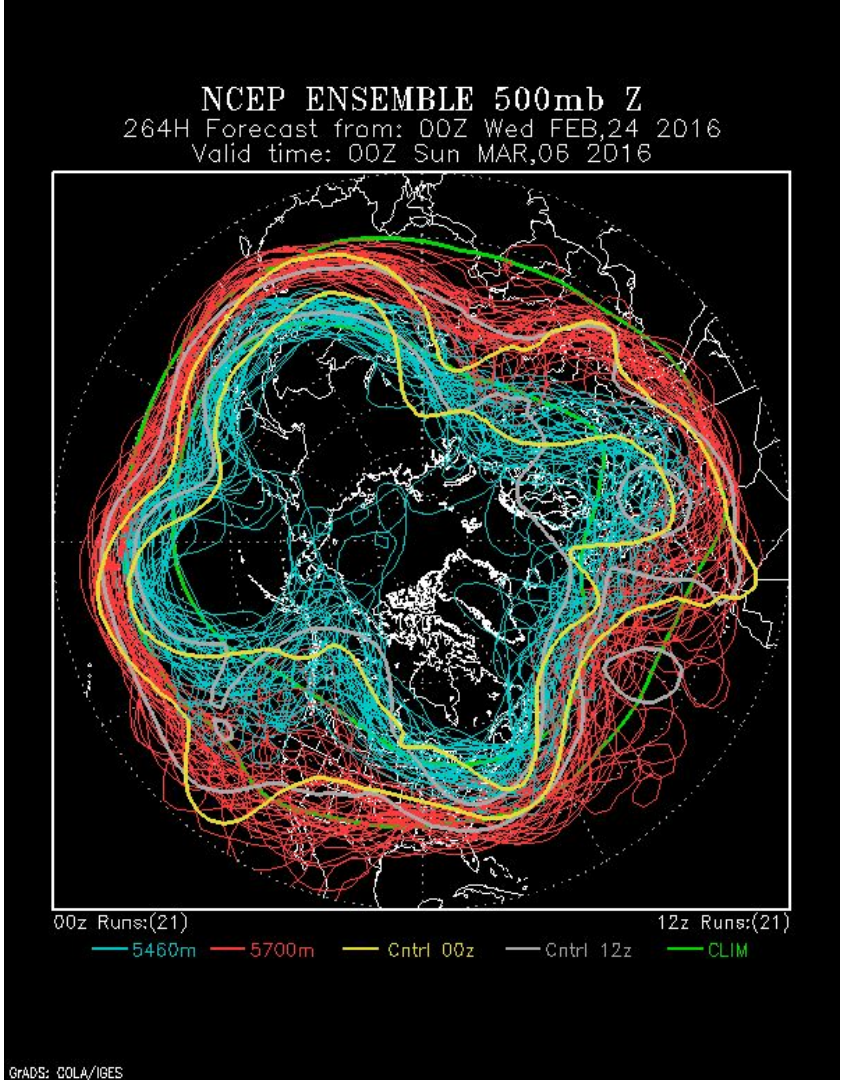


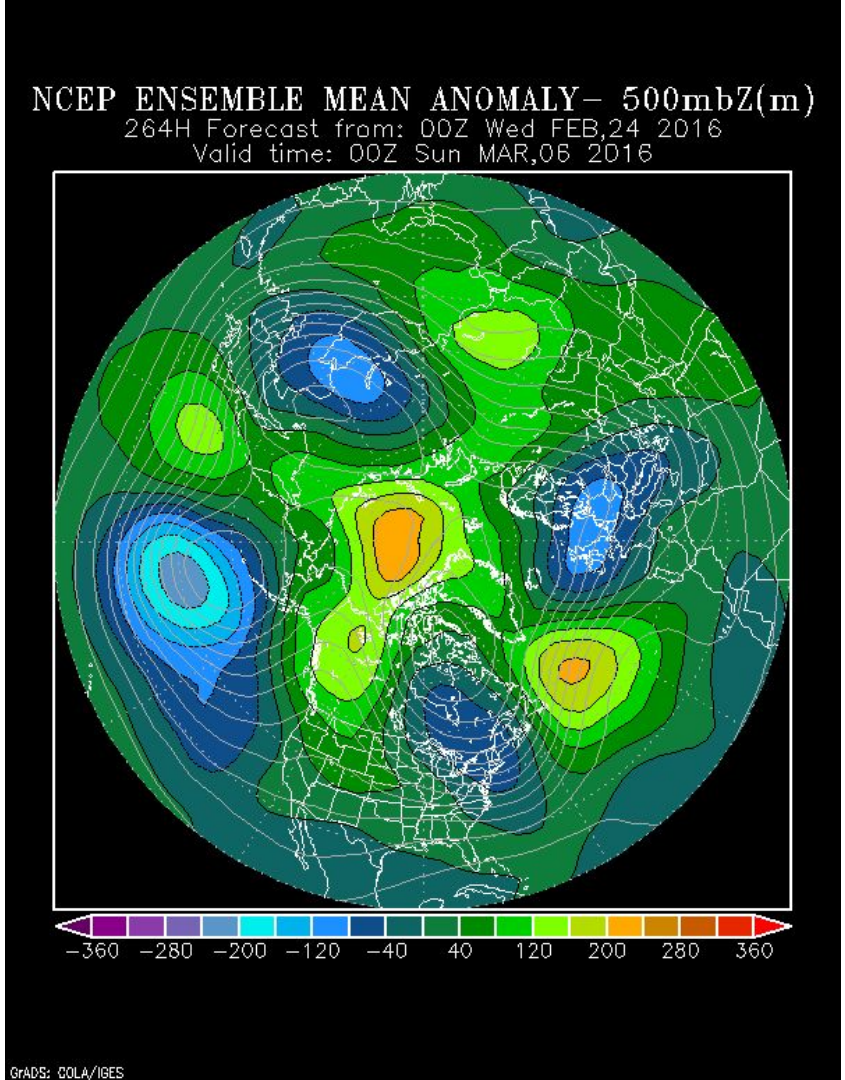

NCEP ENSEMBLE 500mb Z
192H Forecast from: 00Z Sat FEB,27 2016
Valid time: 00Z Sun MAR,06 2016
00z Runs:(21)
12z Runs:(21)
5460m
5700m
Cntrl 00z
Cntrl 12z
CLIM
GrADS: COLA/IGES


NCEP ENSEMBLE MEAN ANOMALY- 500mbZ(m)
192H Forecast from: 00Z Sat FEB,27 2016
Valid time: 00Z Sun MAR,06 2016
-360 -280 -200 -120 -40 40 120 200 280 360
GrADS: COLA/IGES


NCEP ENSEMBLE 500mb Z
216H Forecast from: 00Z Fri FEB,26 2016
Valid time: 00Z Sun MAR,06 2016
00z Runs:(21)
12z Runs:(21)
5400m
5700m
Cntrl 00z
Cntrl 12z
CLIM
GrADS: COLA/IGES


NCEP ENSEMBLE MEAN ANOMALY- 500mbZ(m)
216H Forecast from: 00Z Fri FEB,26 2016
Valid time: 00Z Sun MAR,06 2016
-360 -280 -200 -120 -40 40 120 200 280 360
GrADS: COLA/IGES


NCEP ENSEMBLE 500mb Z
264H Forecast from: 00Z Wed FEB,24 2016
Valid time: 00Z Sun MAR,06 2016
00z Runs:(21)
12z Runs:(21)
5460m
5700m
Cntrl 00z
Cntrl 12z
CLIM
GrADS: COLA/IGES


NCEP ENSEMBLE MEAN ANOMALY- 500mbZ(m)
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Valid time: 00Z Sun MAR,06 2016
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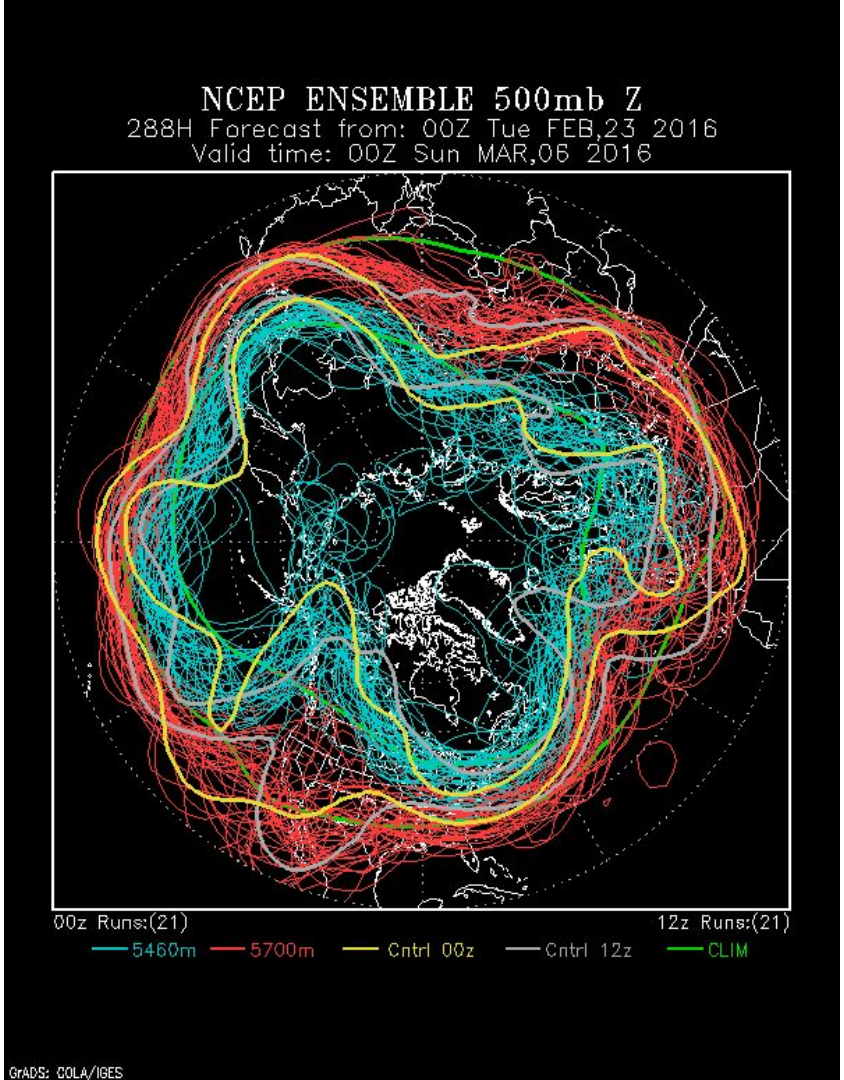
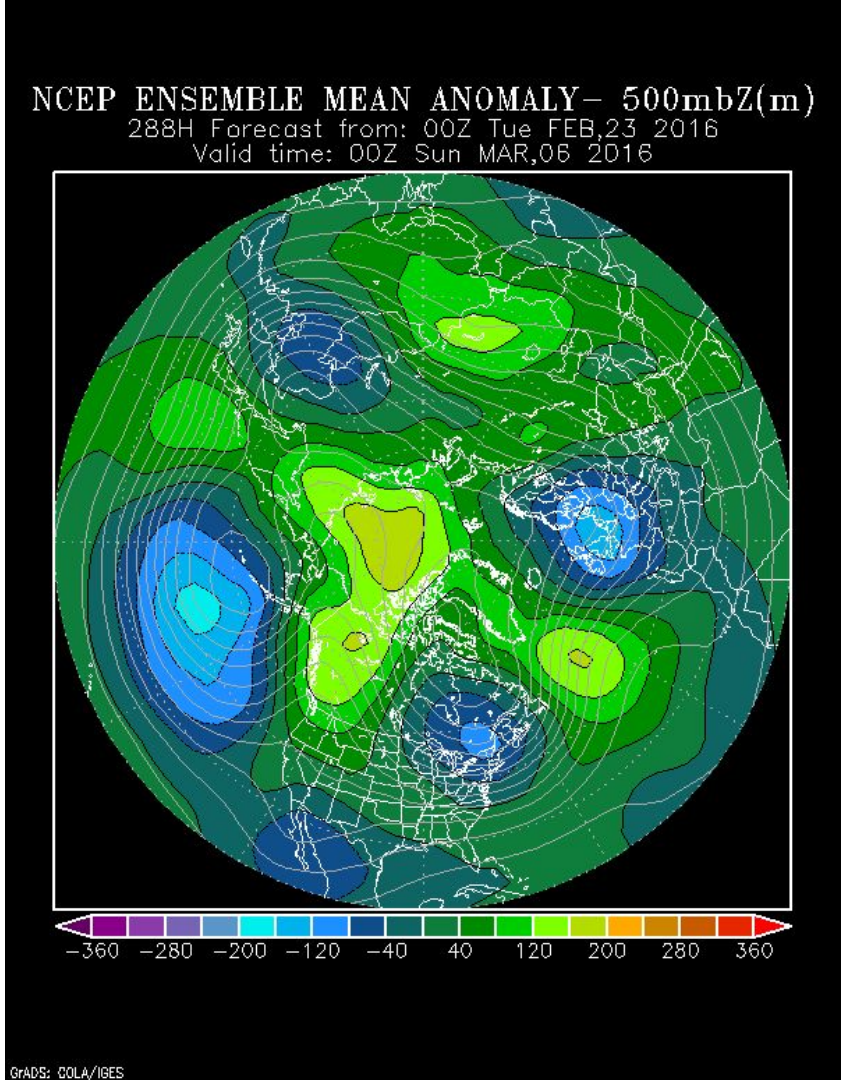

NCEP ENSEMBLE 500mb Z
288H Forecast from: 00Z Tue FEB,23 2016
Valid time: 00Z Sun MAR,06 2016
00z Runs:(21)
12z Runs:(21)
5460m
5700m
Cntrl 00z
Cntrl 12z
CLIM
GrADS: COLA/IGES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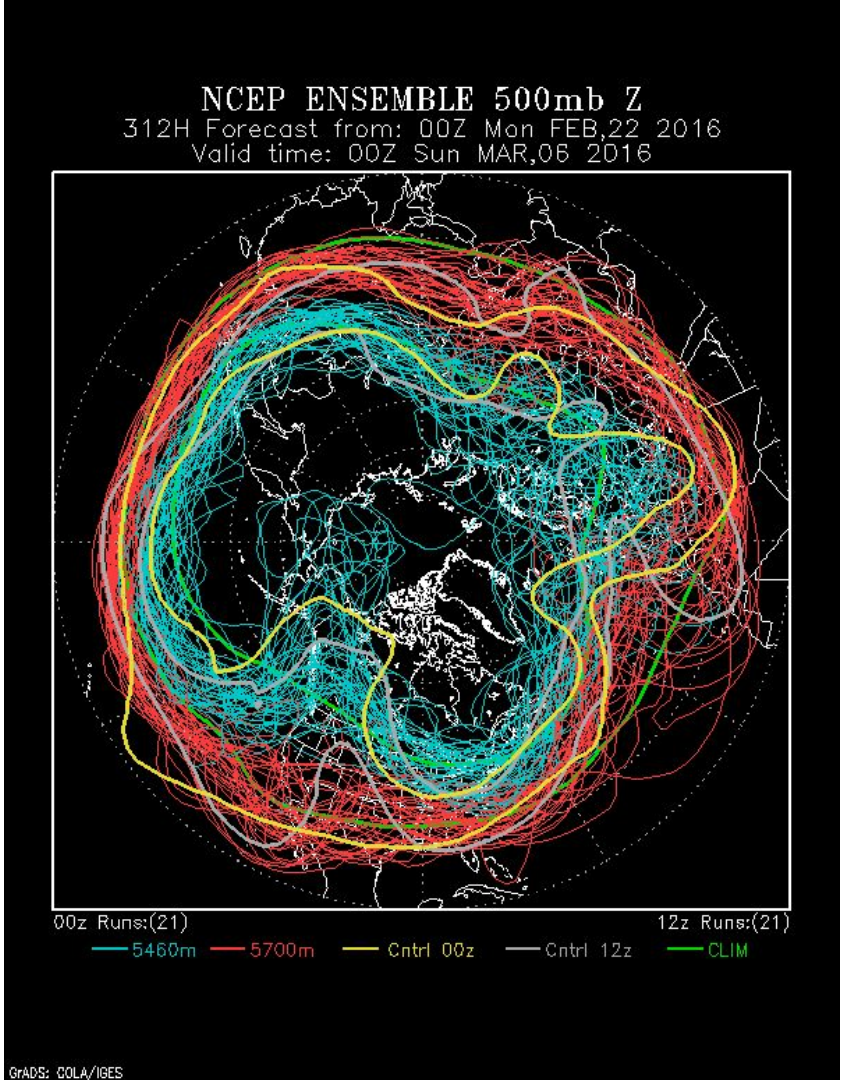
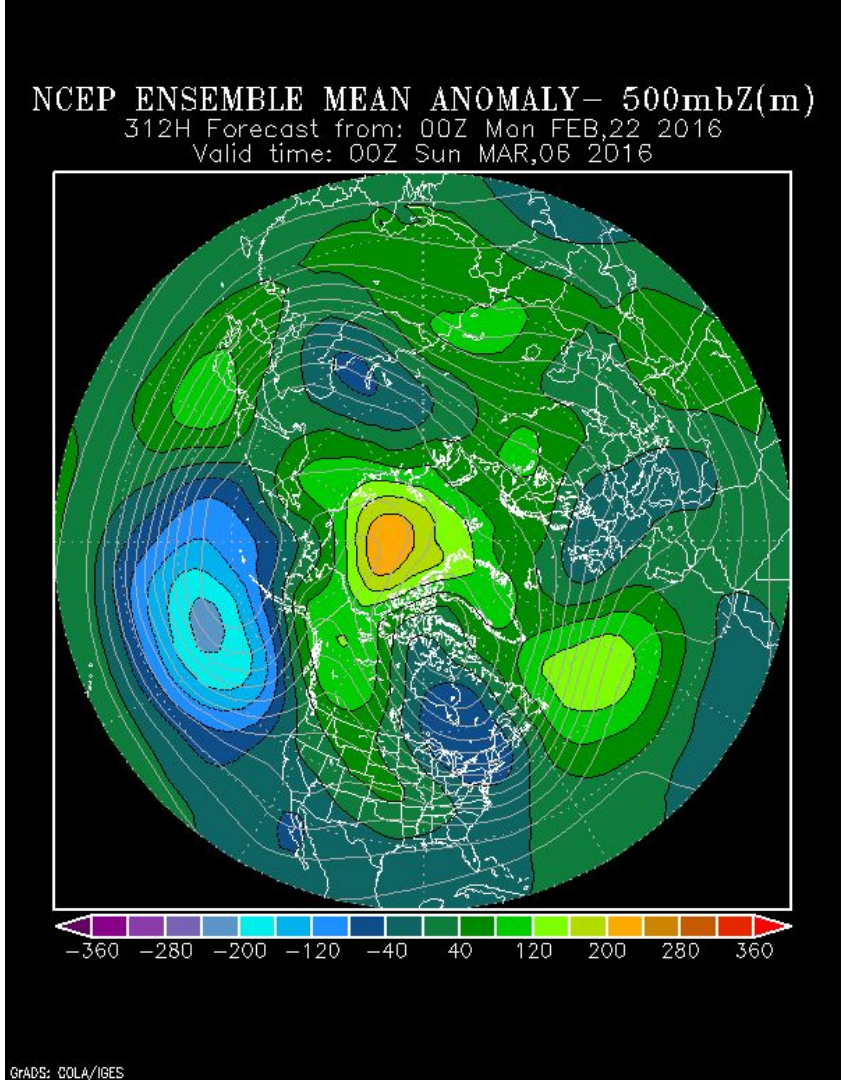
GrADS: COLA/IGES


NCEP ENSEMBLE 500mb Z
312H Forecast from: 00Z Mon FEB,22 2016
Valid time: 00Z Sun MAR,06 2016
00z Runs:(21)
12z Runs:(21)
5460m
5700m
Cntrl 00z
Cntrl 12z
CLIM
GrADS: COLA/IGES


NCEP ENSEMBLE MEAN ANOMALY- 500mbZ(m)
312H Forecast from: 00Z Mon FEB,22 2016
Valid time: 00Z Sun MAR,06 2016
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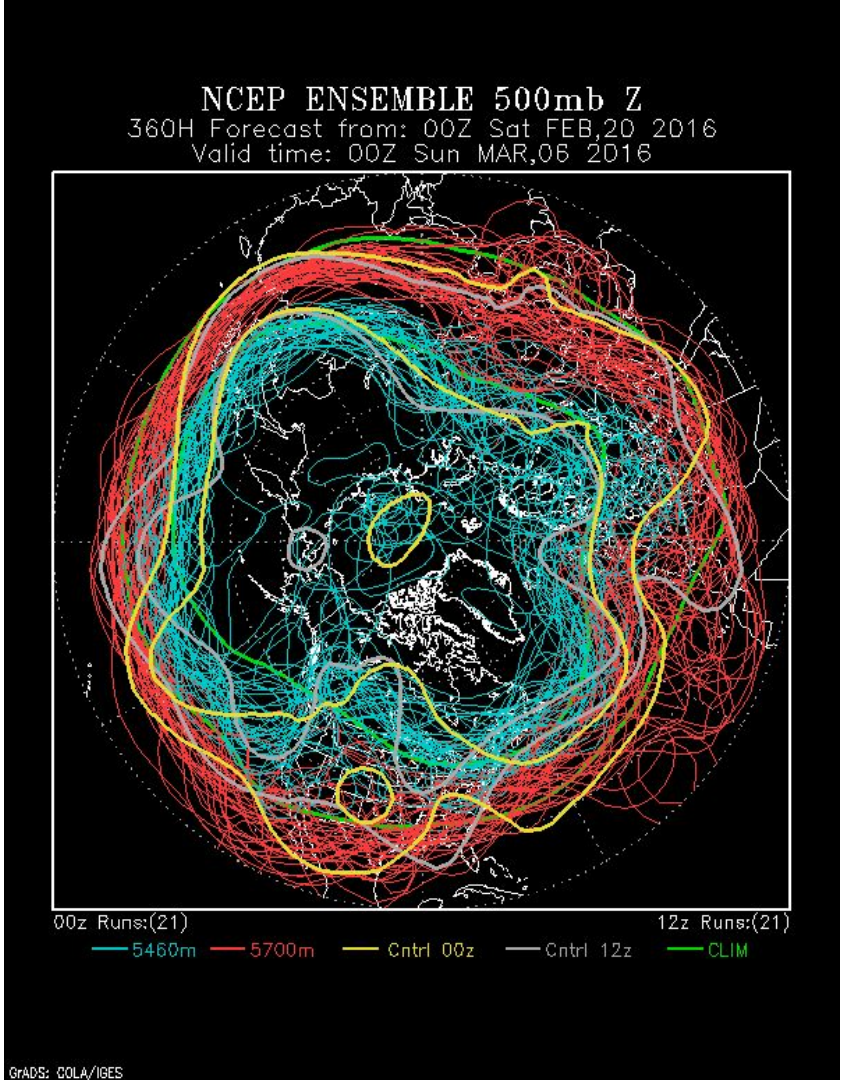
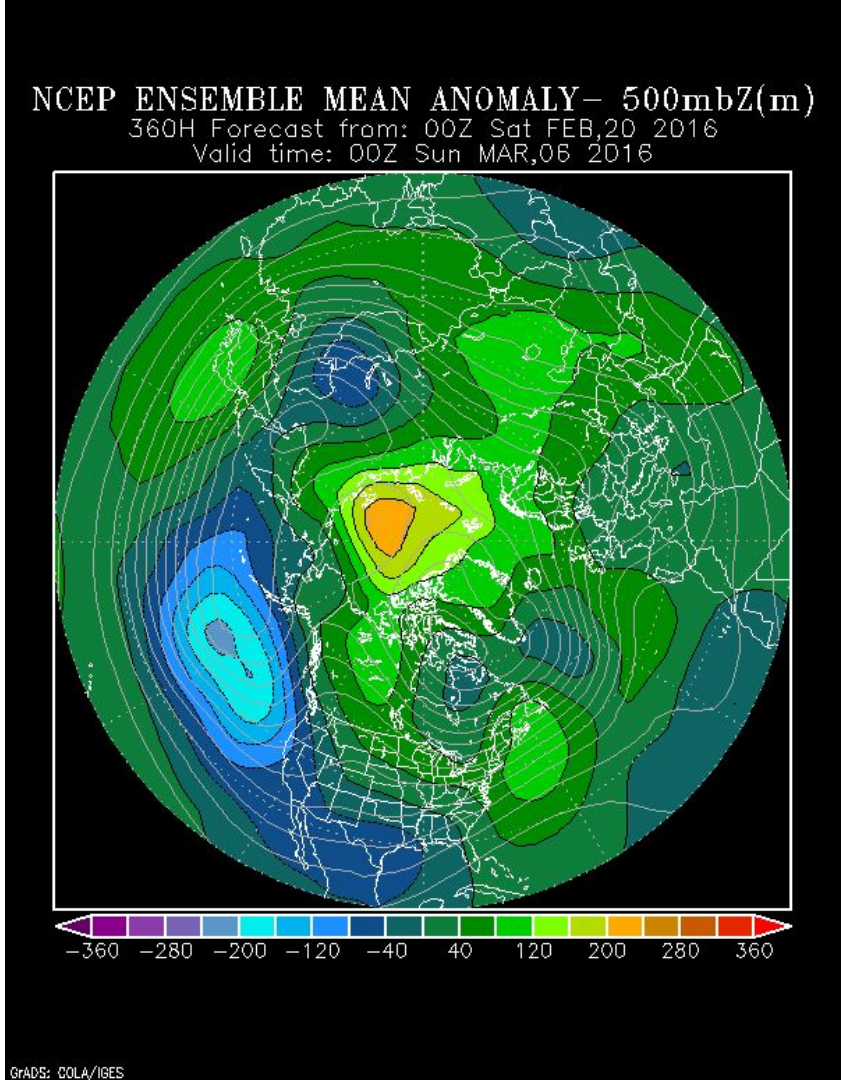
GrADS: COLA/IGES


NCEP ENSEMBLE 500mb Z
360H Forecast from: 00Z Sat FEB,20 2016
Valid time: 00Z Sun MAR,06 2016
00z Runs:(21)
12z Runs:(21)
5460m
5700m
Cntrl 00z
Cntrl 12z
CLIM
GrADS: COLA/IGES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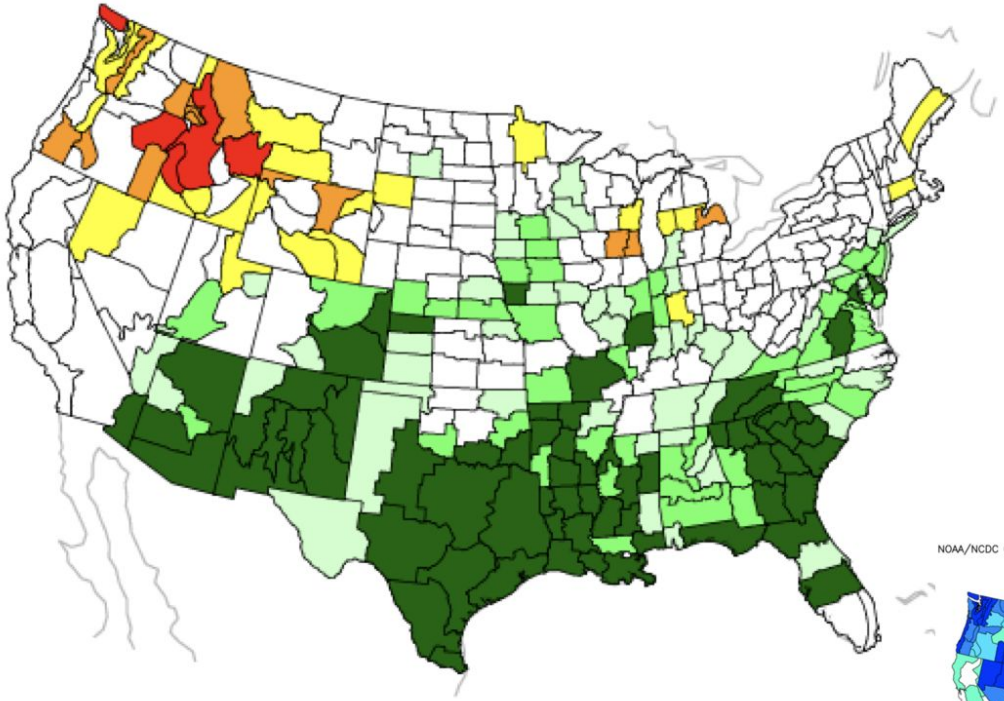
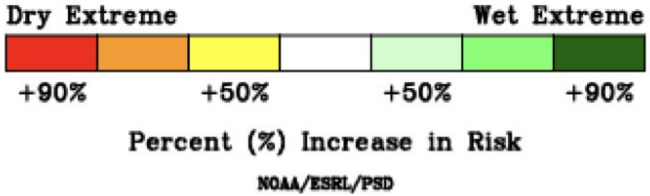
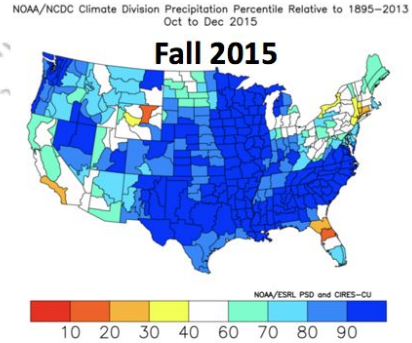
360H Forecast from: 00Z Sat FEB,20 2016
Valid time: 00Z Sun MAR,06 2016
-360 -280 -200 -120 -40 40 120 200 280 360
GrADS: COLA/IGES

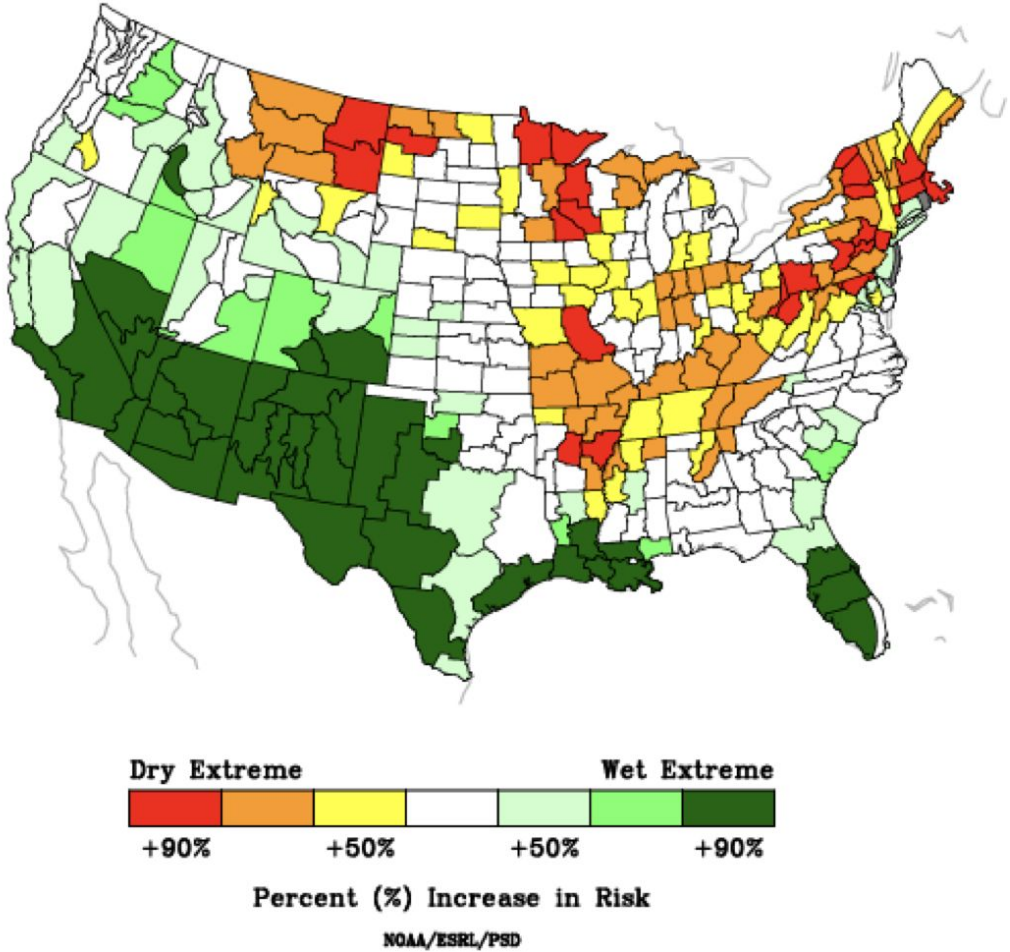
Fall Impacts of El Niño

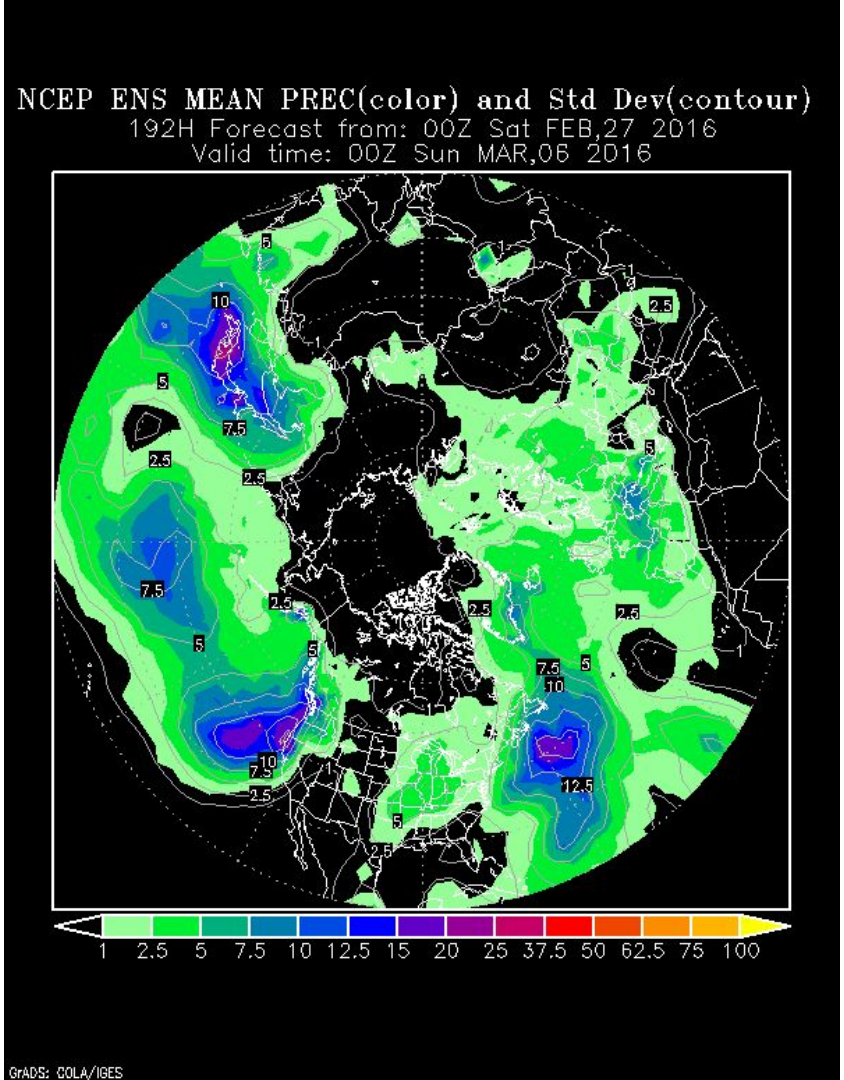


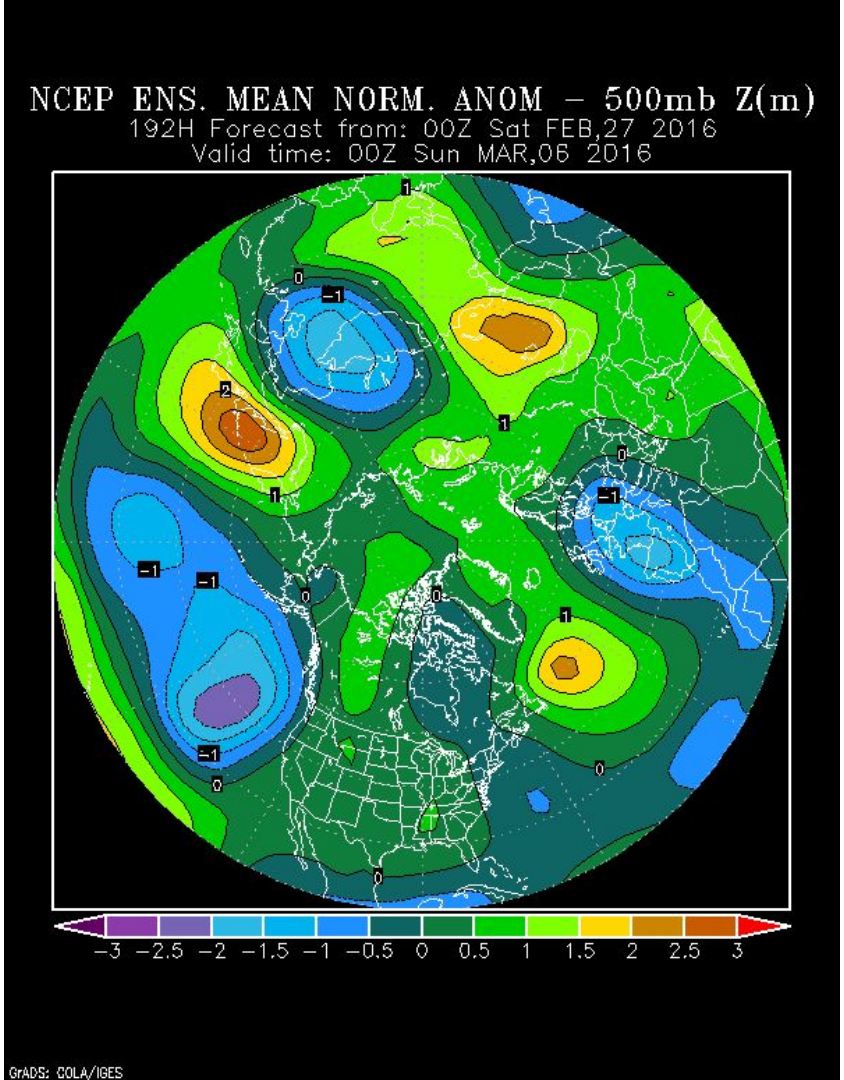


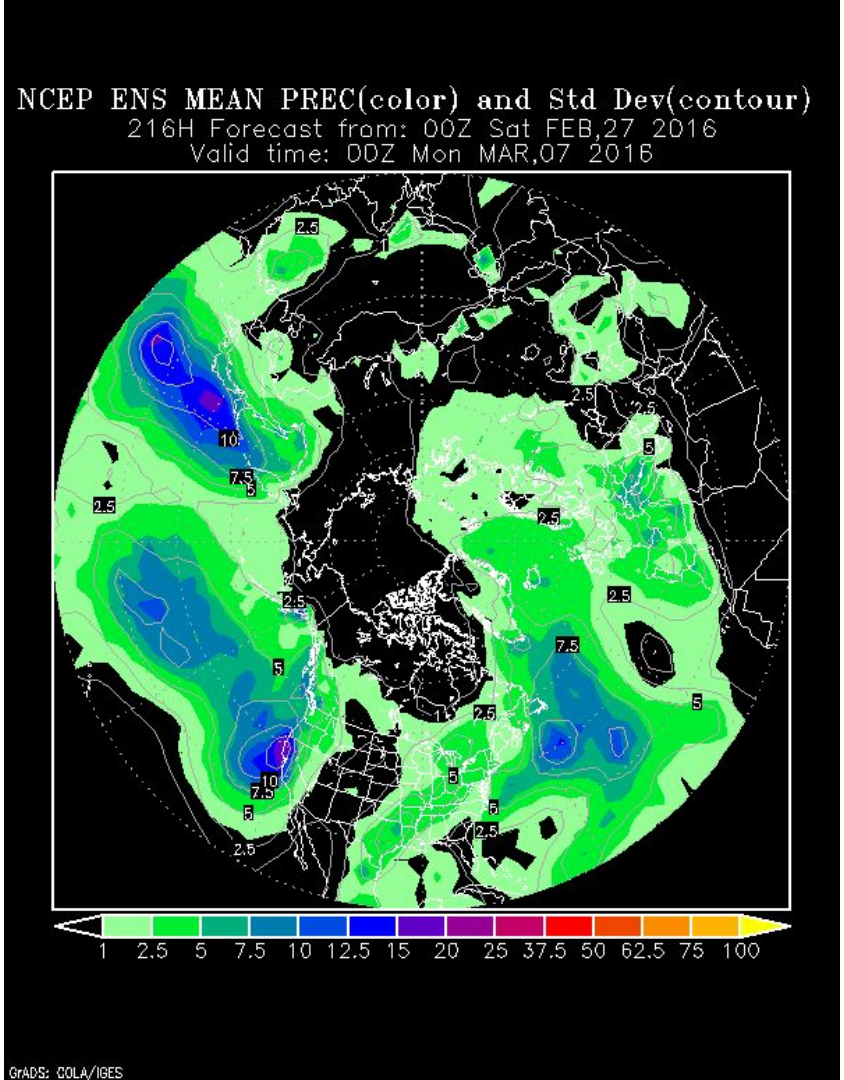


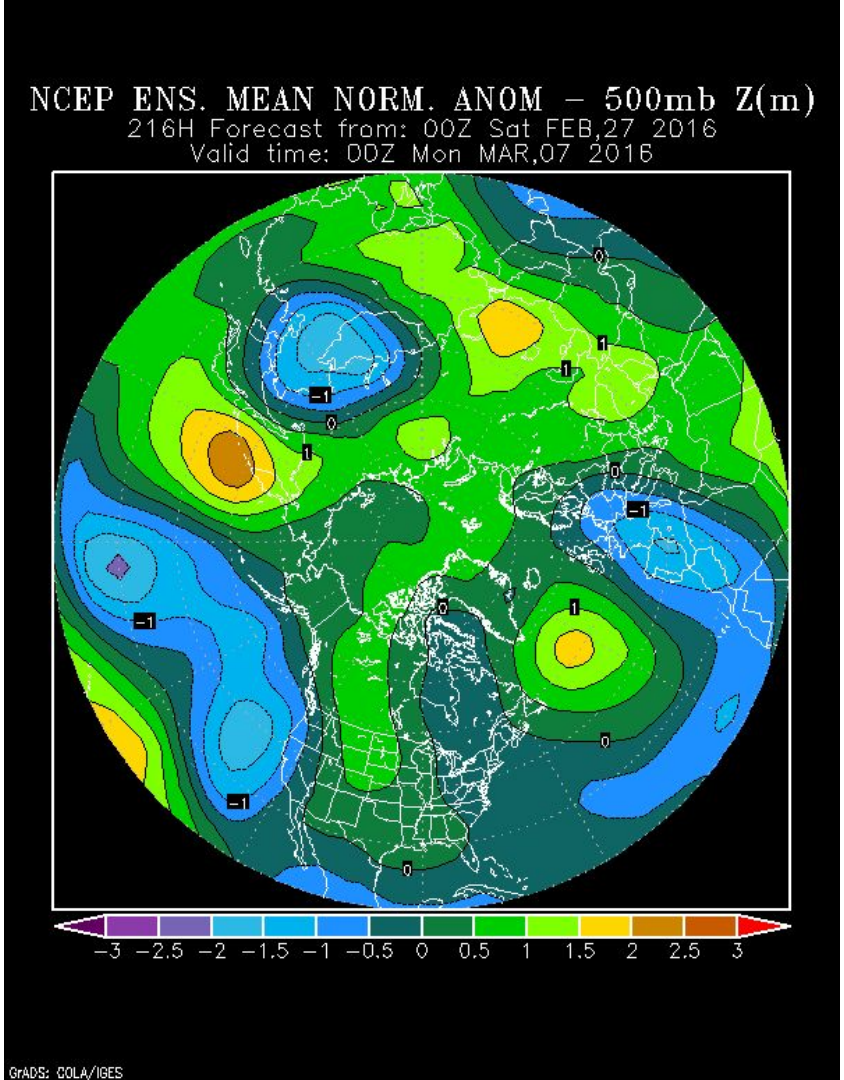
Spring Impacts of El Niño

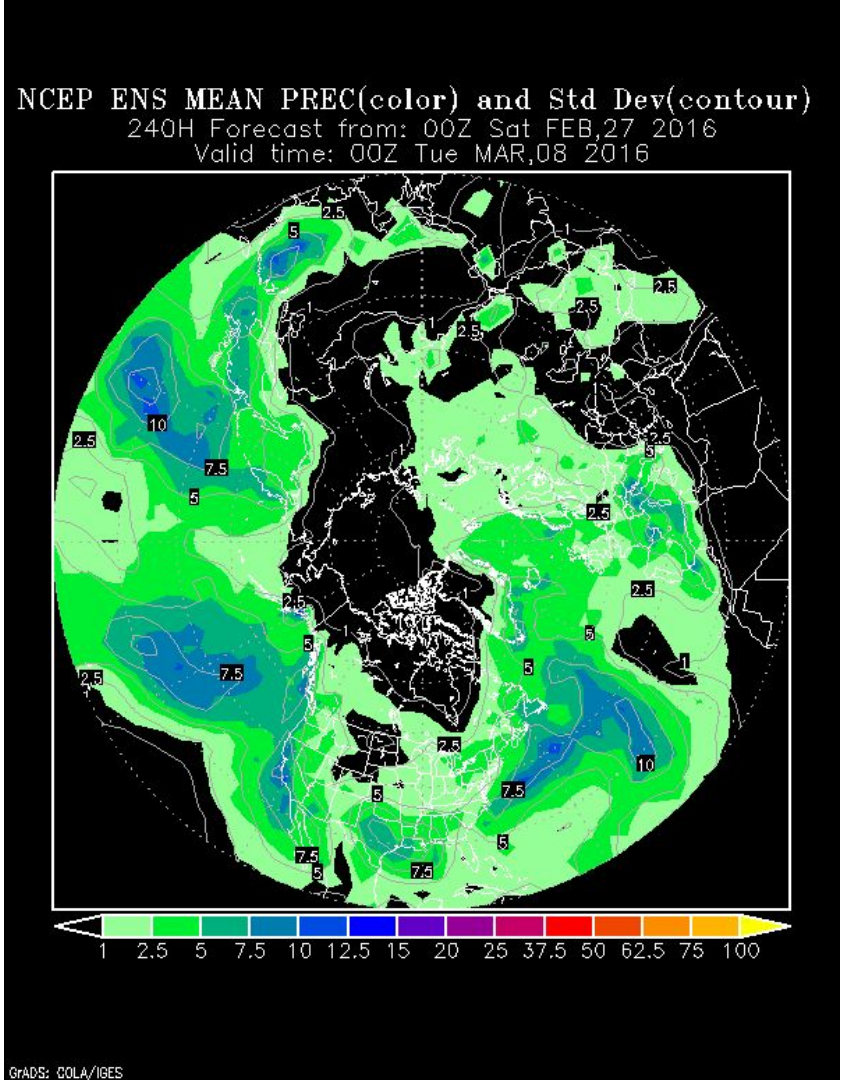


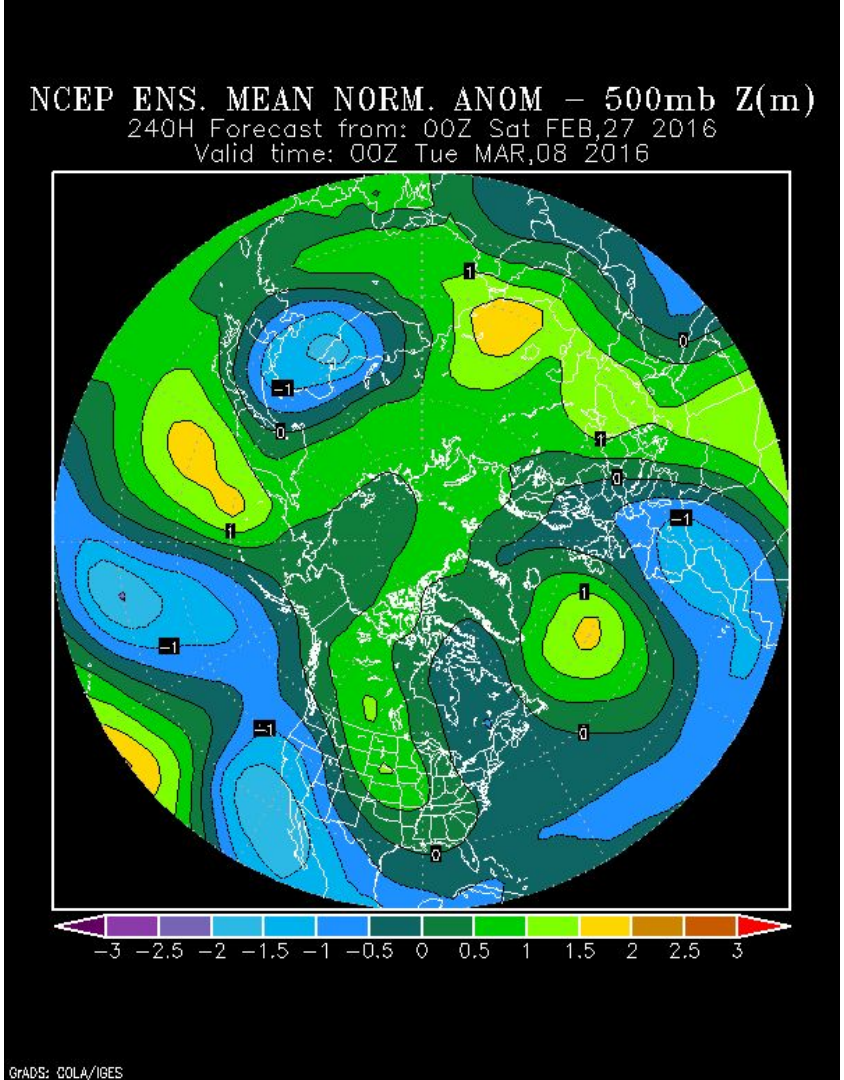

NCEP ENS MEAN PREC(color) and Std Dev(contour)
192H Forecast from: 00Z Sat FEB,27 2016
Valid time: 00Z Sun MAR,06 2016
1 2.5 5 7.5 10 12.5 15 20 25 37.5 50 62.5 75 100
GrADS: COLA/IGES


NCEP ENS. MEAN NORM. ANOM – 500mb Z(m)
192H Forecast from: 00Z Sat FEB,27 2016
Valid time: 00Z Sun MAR,06 2016
−3 −2.5 −2 −1.5 −1 −0.5 0 0.5 1 1.5 2 2.5 3
GrADS: COLA/IGES


NCEP ENS MEAN PREC(color) and Std Dev(contour)
216H Forecast from: 00Z Sat FEB,27 2016
Valid time: 00Z Mon MAR,07 2016
1 2.5 5 7.5 10 12.5 15 20 25 37.5 50 62.5 75 100
GrADS: COLA/IGES


NCEP ENS. MEAN NORM. ANOM – 500mb Z(m)
216H Forecast from: 00Z Sat FEB,27 2016
Valid time: 00Z Mon MAR,07 2016
−3 −2.5 −2 −1.5 −1 −0.5 0 0.5 1 1.5 2 2.5 3
GrADS: COLA/IGES


NCEP ENS MEAN PREC(color) and Std Dev(contour)
240H Forecast from: 00Z Sat FEB,27 2016
Valid time: 00Z Tue MAR,08 2016
1 2.5 5 7.5 10 12.5 15 20 25 37.5 50 62.5 75 100
GrADS: COLA/IGES


NCEP ENS. MEAN NORM. ANOM – 500mb Z(m)
240H Forecast from: 00Z Sat FEB,27 2016
Valid time: 00Z Tue MAR,08 2016
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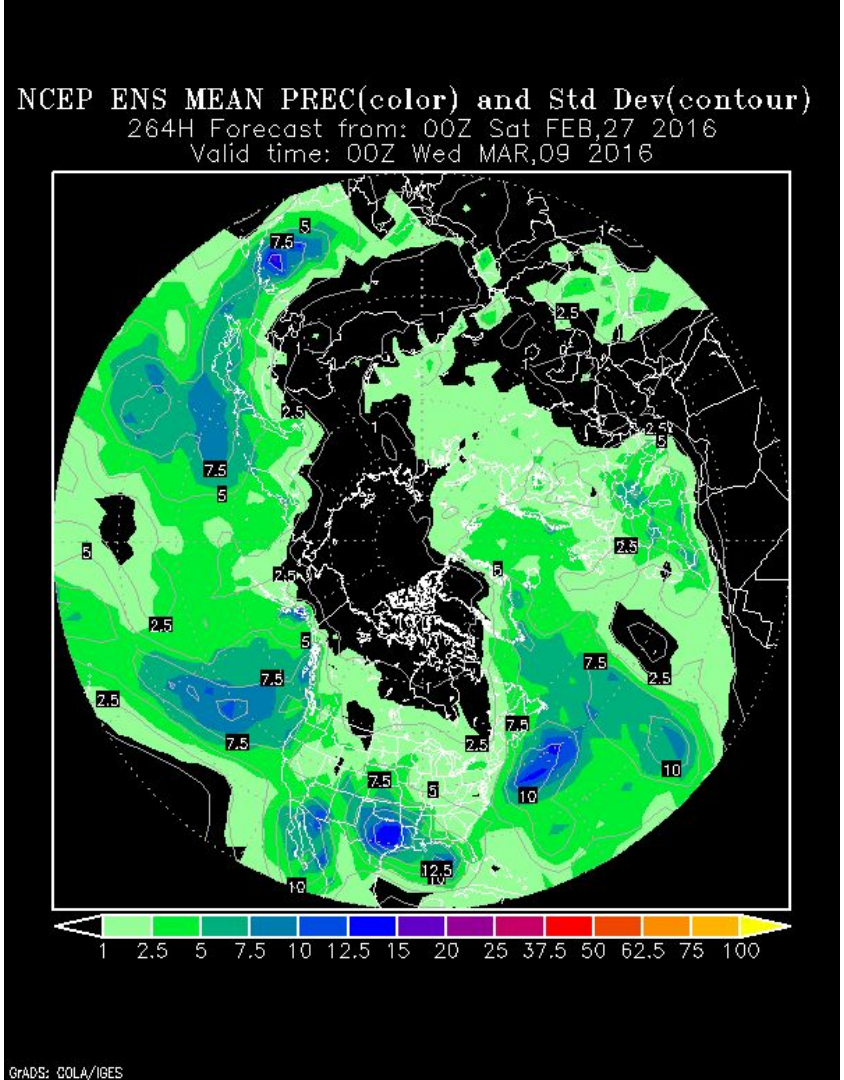
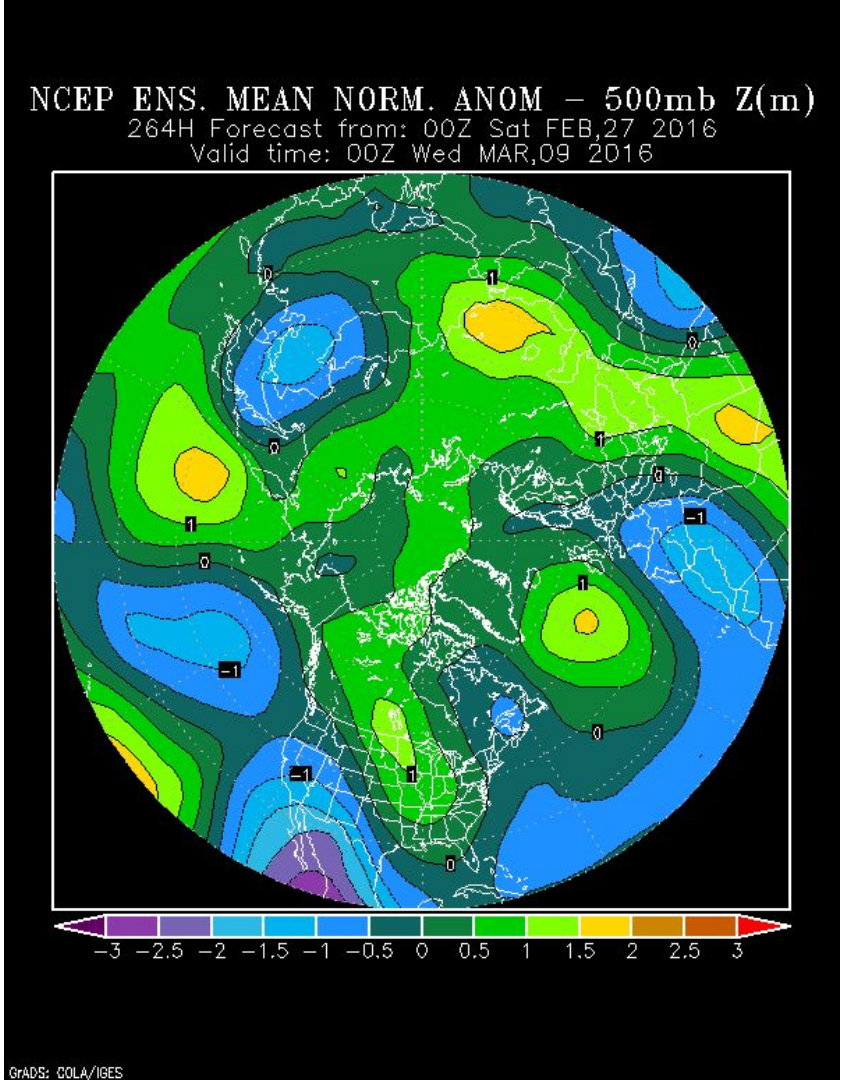
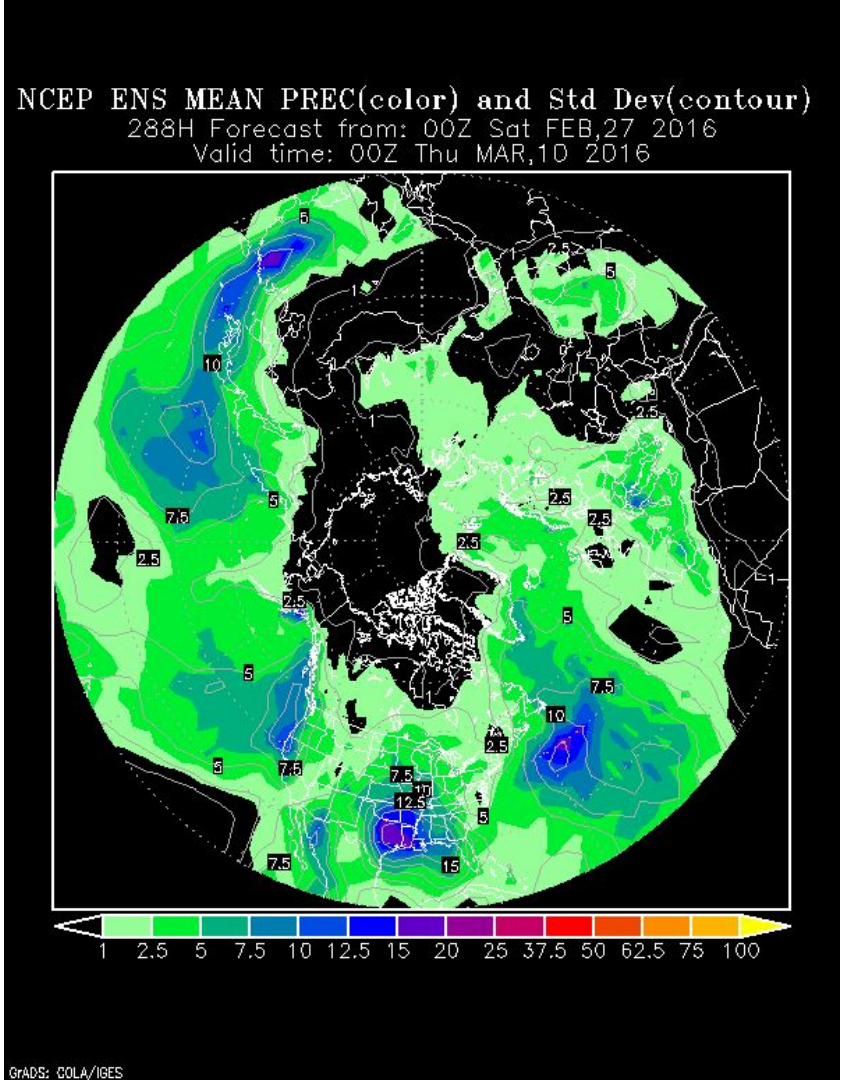
GrADS: COLA/IGES


NCEP ENS MEAN PREC(color) and Std Dev(contour)
264H Forecast from: 00Z Sat FEB,27 2016
Valid time: 00Z Wed MAR,09 2016
1 2.5 5 7.5 10 12.5 15 20 25 37.5 50 62.5 75 100
GrADS: COLA/IGES


NCEP ENS. MEAN NORM. ANOM – 500mb Z(m)
264H Forecast from: 00Z Sat FEB,27 2016
Valid time: 00Z Wed MAR,09 2016
−3 −2.5 −2 −1.5 −1 −0.5 0 0.5 1 1.5 2 2.5 3
GrADS: COLA/IGES


NCEP ENS MEAN PREC(color) and Std Dev(contour)
288H Forecast from: 00Z Sat FEB,27 2016
Valid time: 00Z Thu MAR,10 2016
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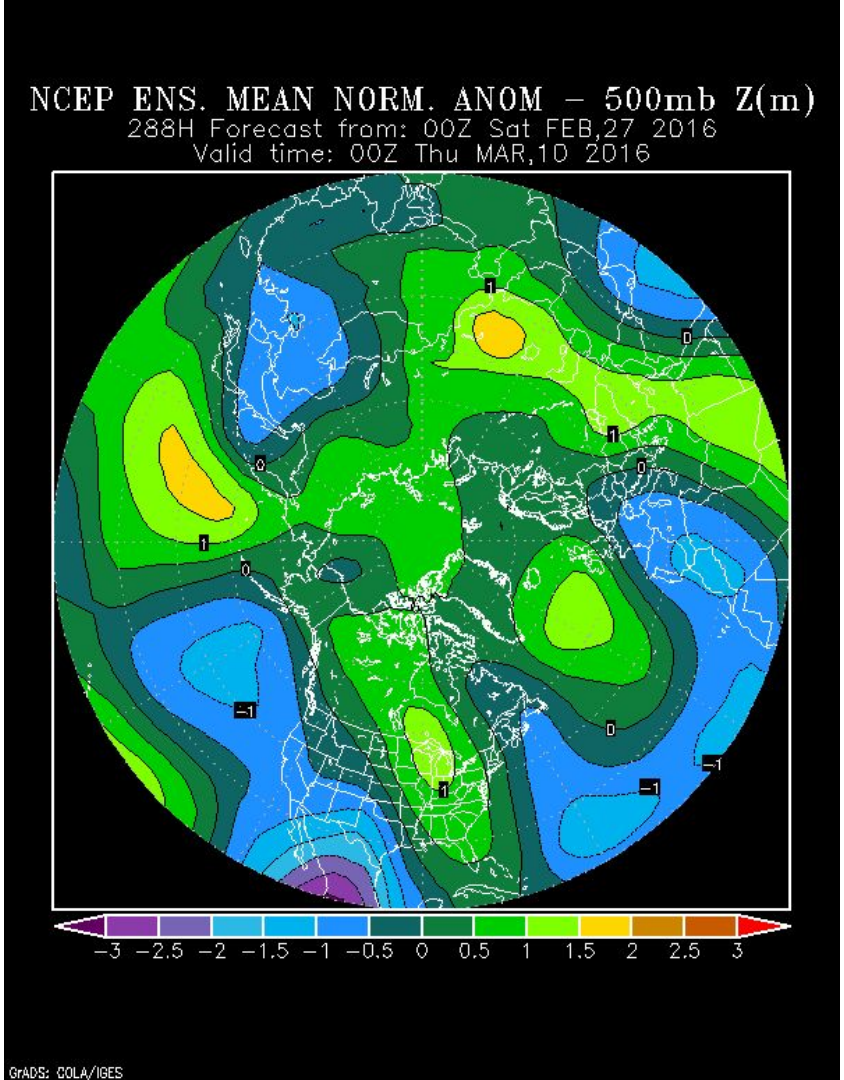
GrADS: COLA/IGES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288H Forecast from: 00Z Sat FEB,27 2016
Valid time: 00Z Thu MAR,10 2016
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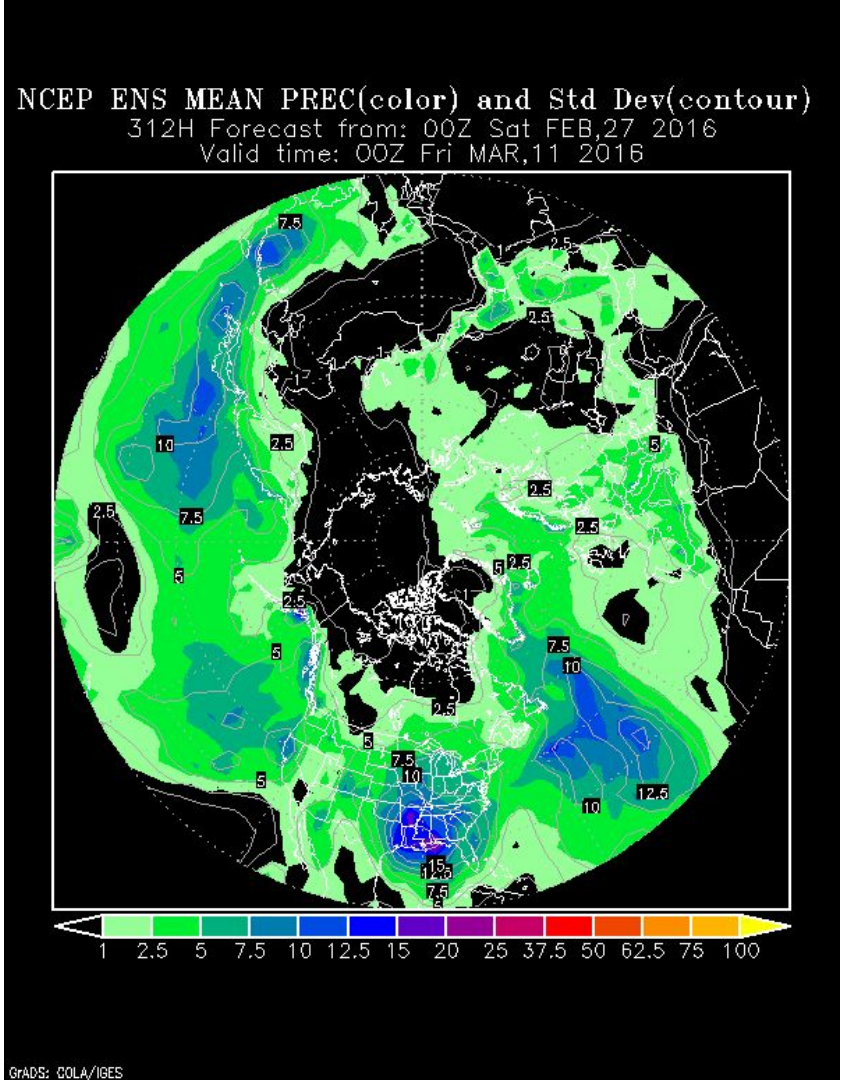
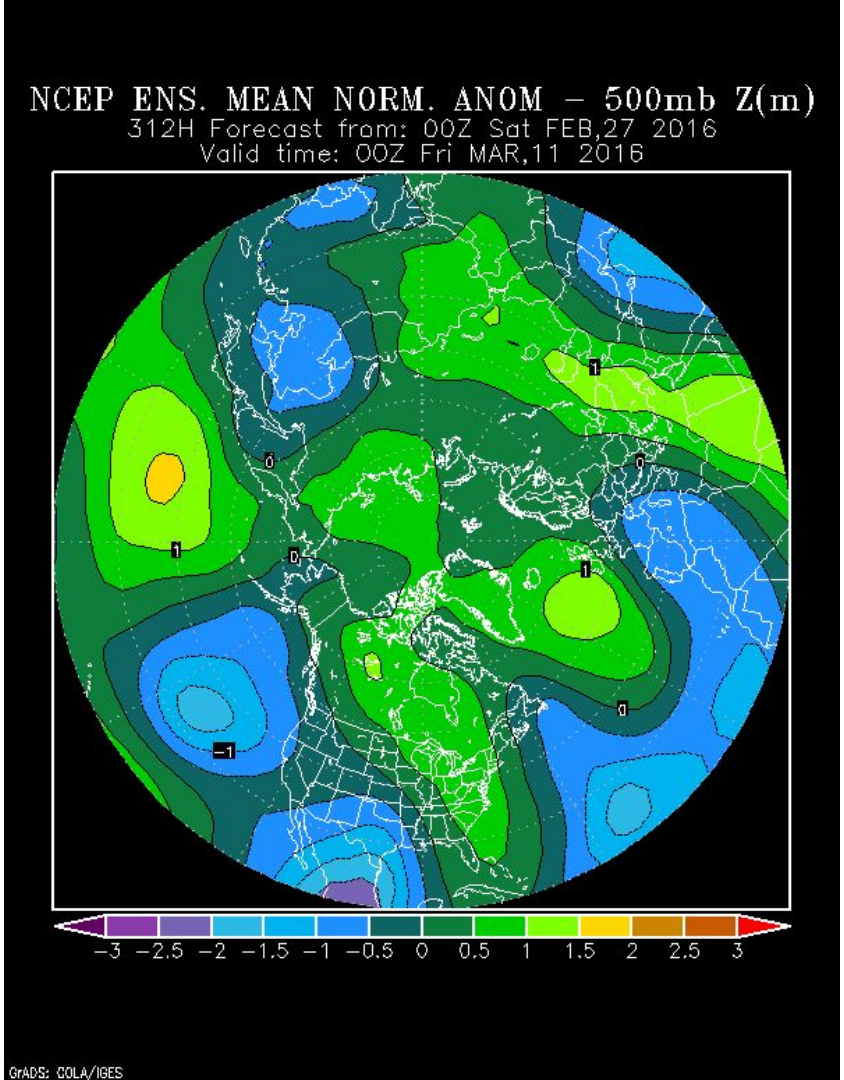
GrADS: COLA/IGES


NCEP ENS MEAN PREC(color) and Std Dev(contour)
312H Forecast from: 00Z Sat FEB,27 2016
Valid time: 00Z Fri MAR,11 2016
1 2.5 5 7.5 10 12.5 15 20 25 37.5 50 62.5 75 100
GrADS: COLA/IGES


NCEP ENS. MEAN NORM. ANOM – 500mb Z(m)
312H Forecast from: 00Z Sat FEB,27 2016
Valid time: 00Z Fri MAR,11 2016
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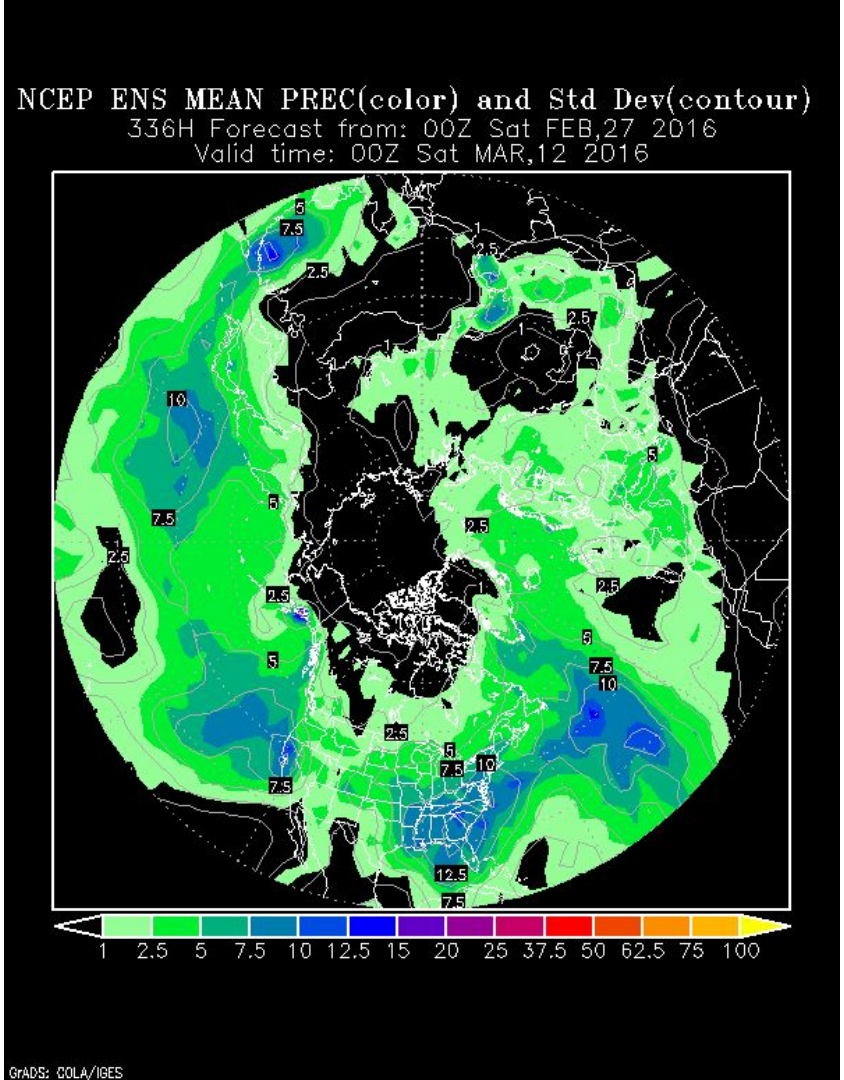
GrADS: COLA/IGES


NCEP ENS MEAN PREC(color) and Std Dev(contour)
336H Forecast from: 00Z Sat FEB,27 2016
Valid time: 00Z Sat MAR,12 2016
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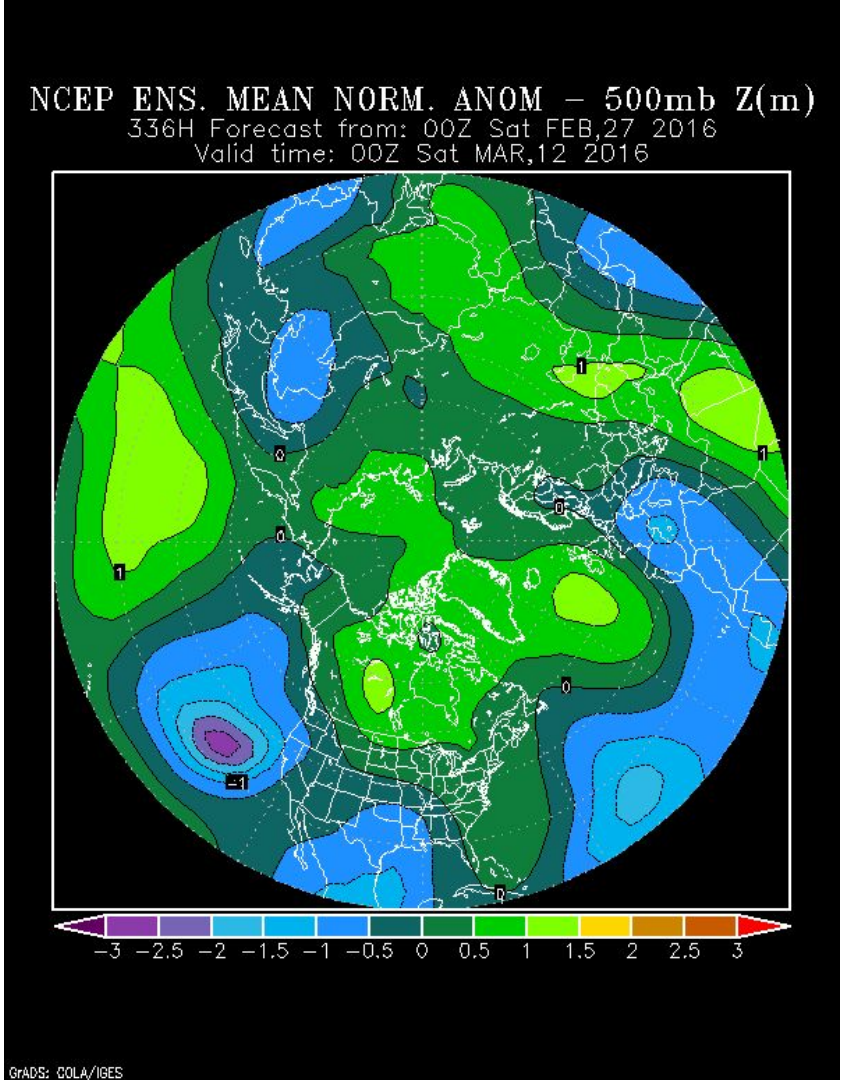
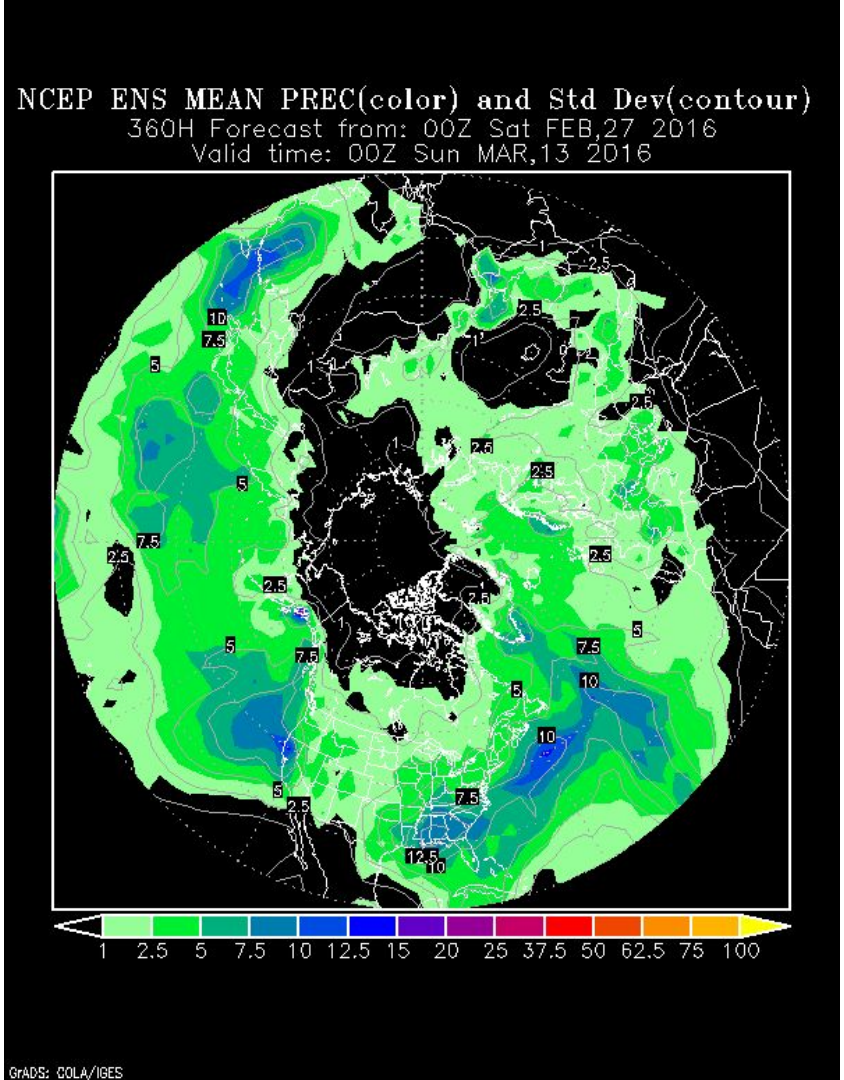
GrADS: COLA/IGES


NCEP ENS. MEAN NORM. ANOM – 500mb Z(m)
336H Forecast from: 00Z Sat FEB,27 2016
Valid time: 00Z Sat MAR,12 2016
−3 −2.5 −2 −1.5 −1 −0.5 0 0.5 1 1.5 2 2.5 3
GrADS: COLA/IGES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360H Forecast from: 00Z Sat FEB,27 2016
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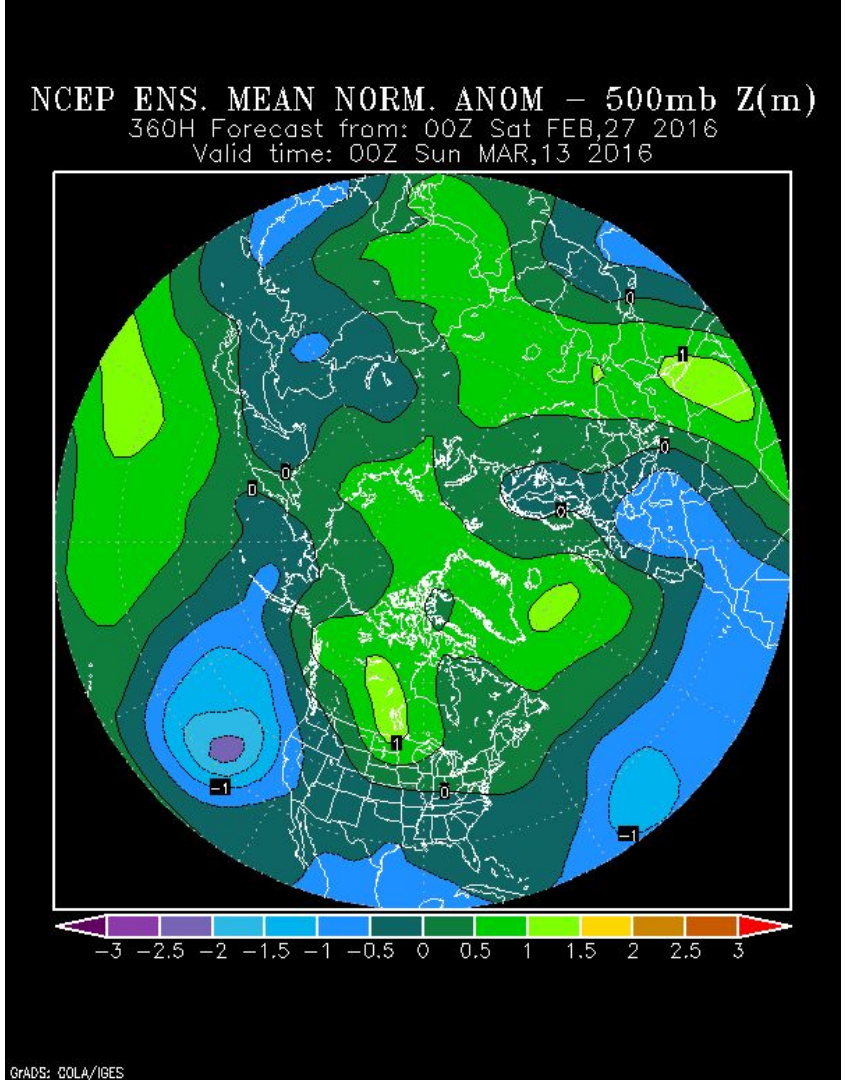
GrADS: COLA/IGES


NCEP ENS. MEAN NORM. ANOM – 500mb Z(m)
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Valid time: 00Z Sun MAR,13 2016
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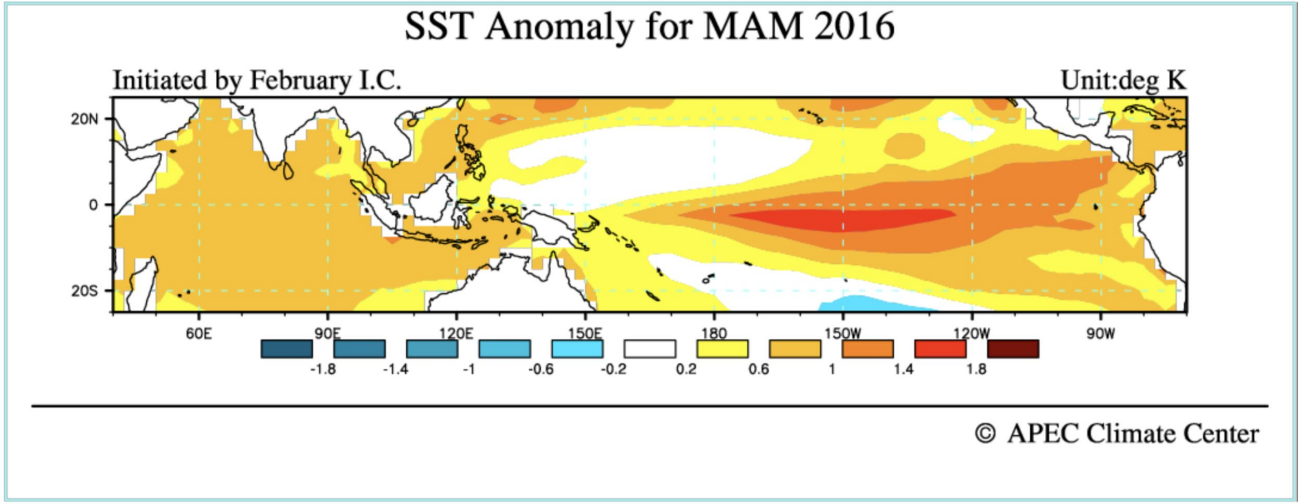
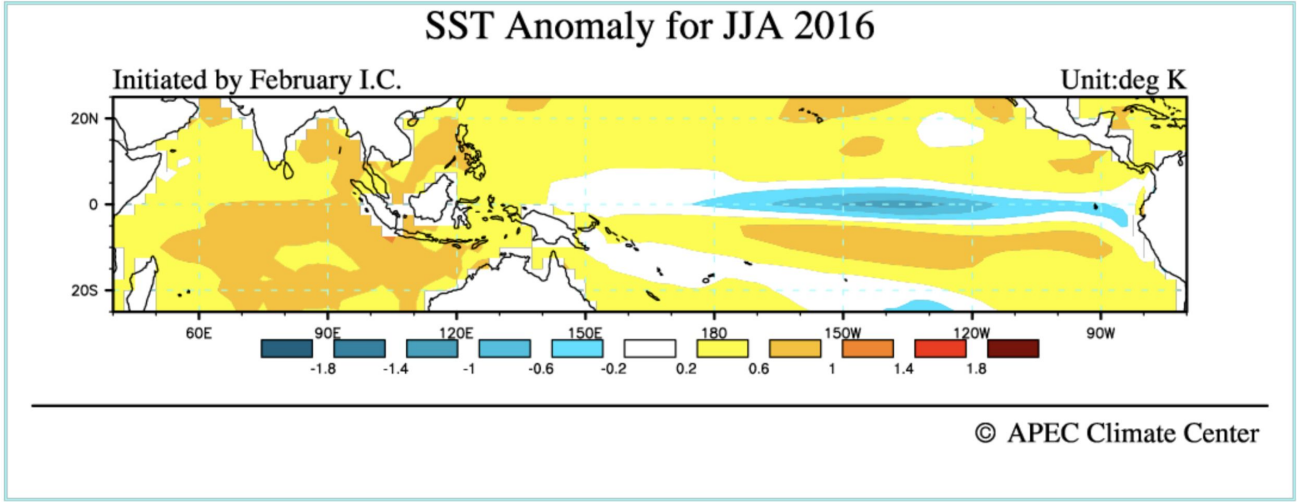
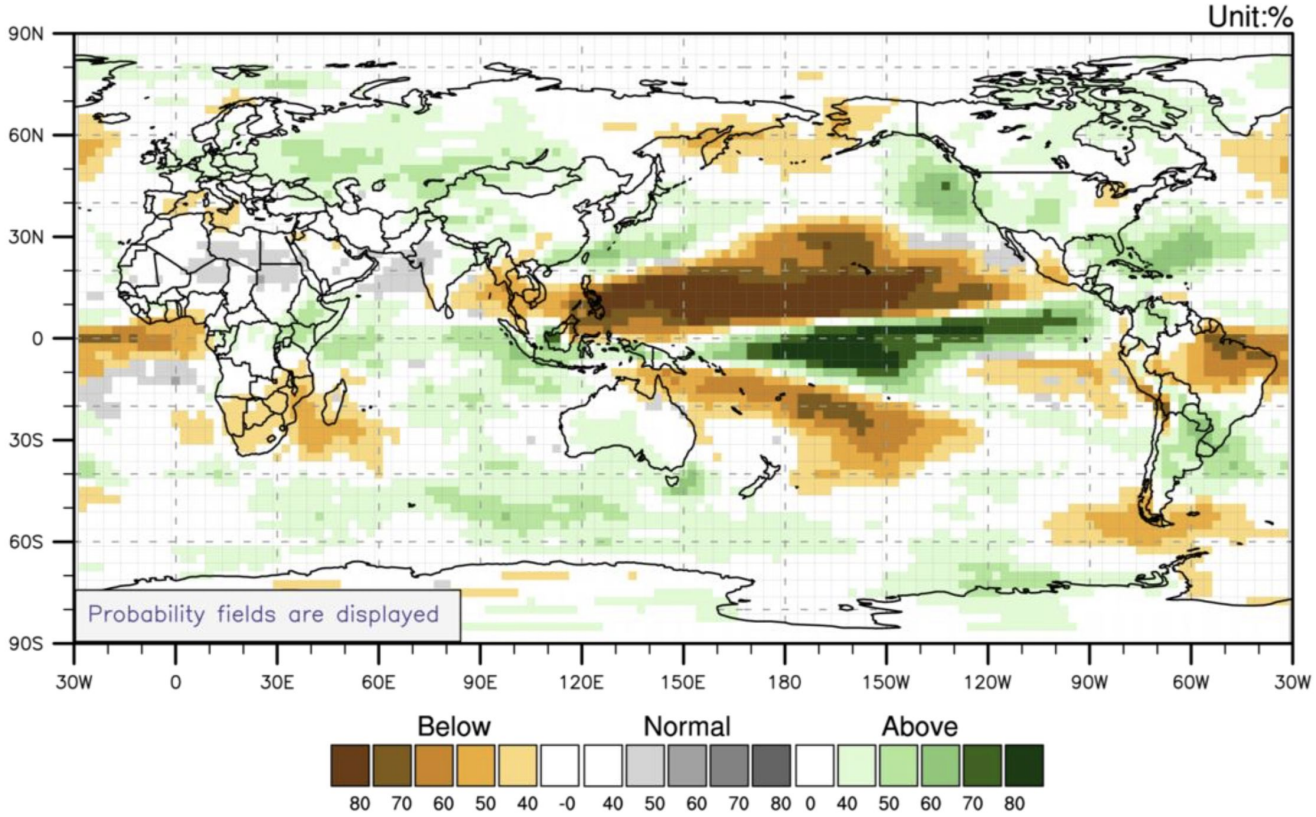
GrADS: COLA/IGES

Spring 2016 Outlook: APEC NMME


SST Anomaly for MAM 2016
Initiated by February I.C.
Unit:deg K
20N
0
20S
60E
90E
120E
150E
180
150W
120W
90W
-1.8
-1.4
-1
-0.6
-0.2
0.2
0.6
1
1.4
1.8
© APEC Climate Center


SST Anomaly for JJA 2016
Initiated by February I.C.
Unit:deg K
20N
0
20S
60E
90E
120E
150E
180
150W
120W
90W
-1.8
-1.4
-1
-0.6
-0.2
0.2
0.6
1
1.4
1.8
© APEC Climate Center

Precipitation for March-May 2016



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