ENVIRONNEMENT CANADA
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ANAL SURFACE
12Z MON-LUN 20 MAR-MAR 17
G3PLJAC_12   JAC

The white circle is a marker for position – NE of the surface low
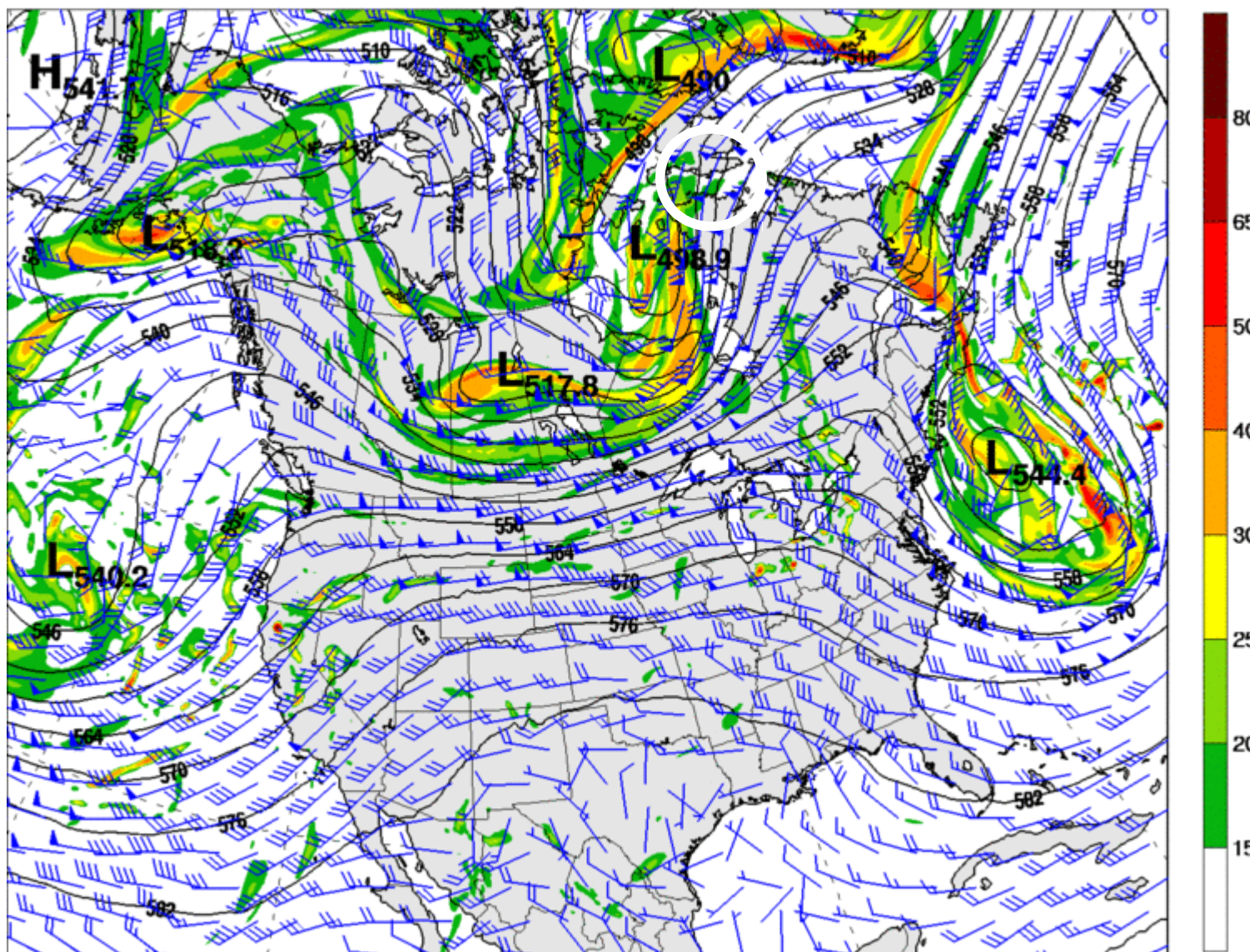

Mean Sea Level Pressure (hPa)
1000-500 hPa Thickness (dam)
500-hPa Heights (dam)
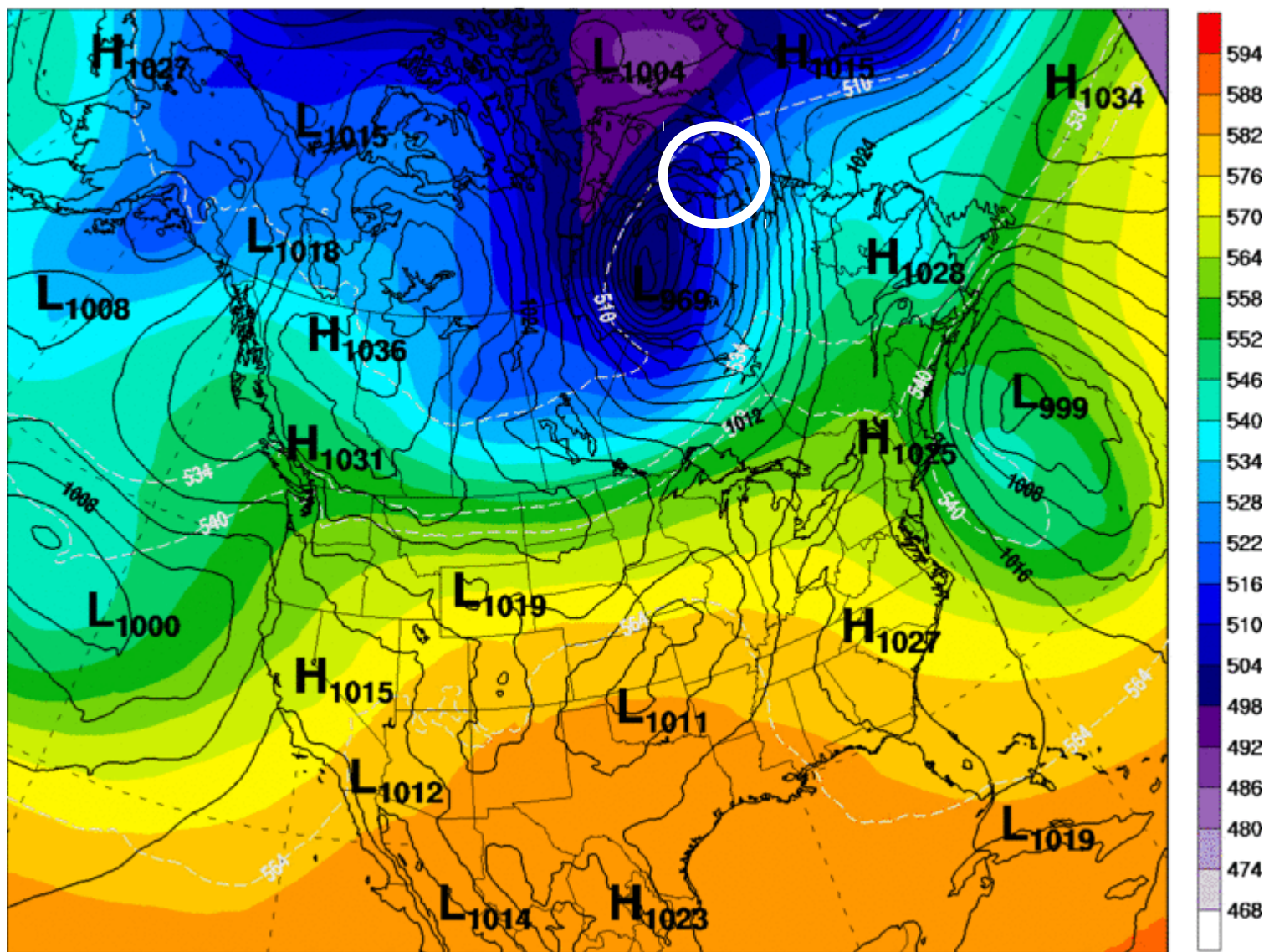
Analysis Valid on Mon Mar 20 12:00:00 2017
CMC-RDPS data provided by Environment Canada - http://meteocentre.com/

Higher values of vorticity are being blown towards lower values: PVA (downwind of upper trough)

500-hPa Wind Barbs (knots)
500-hPa Heights (dam)
500-hPa Absolute Vorticity (1E-5 s-1)

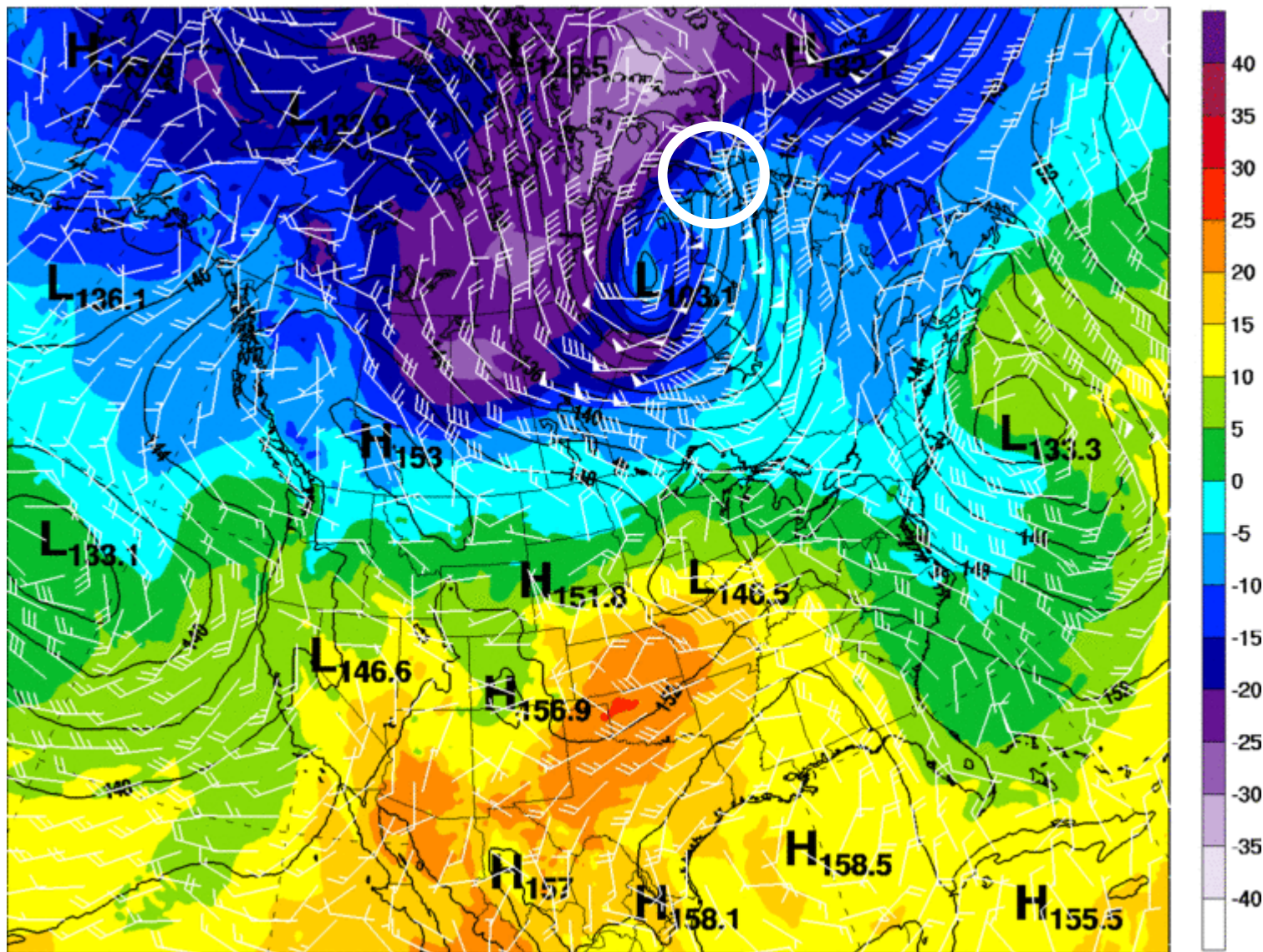Analysis Valid on Mon Mar 20 12:00:00 2017
CMC-RDPS data provided by Environment Canada - http://meteocentre.com/

Warmer air is replacing cooler air: PTA

850-hPa Wind Barbs (knots)
850-hPa Heights (dam)
850-hPa Temperature (deg C)

Analysis Valid on Mon Mar 20 12:00:00 2017
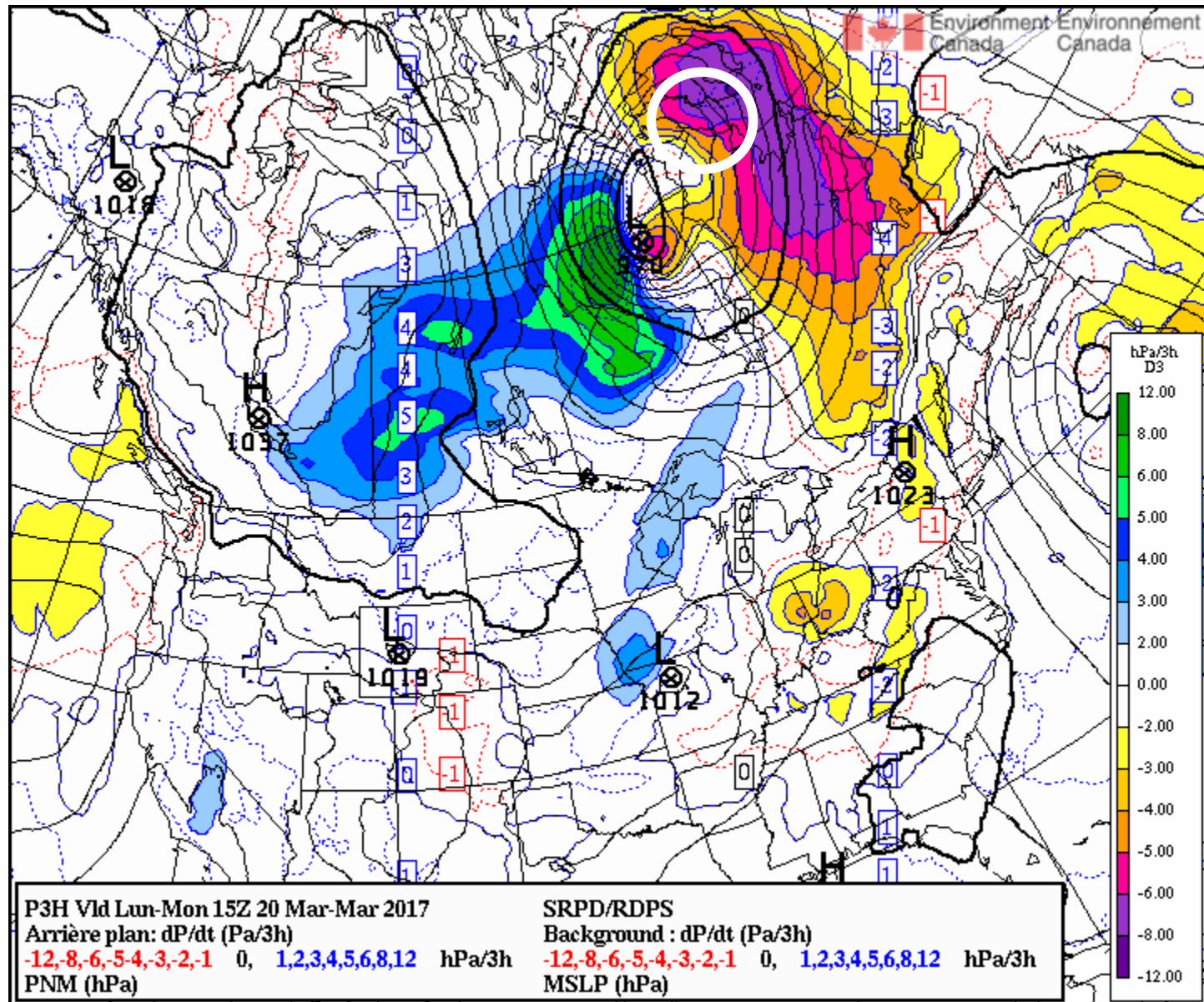CMC-RDPS data provided by Environment Canada - http://meteocentre.com/

Ascending vertical motion is co-located with PTA and PVA

700-hPa Wind Barbs (knots)
700-hPa Heights (dam)
700-hPa Vertical Motion (1E-1 Pa/s)

Analysis Valid on Mon Mar 20 12:00:00 2017
CMC-RDPS data provided by Environment Canada - http://meteocentre.com/
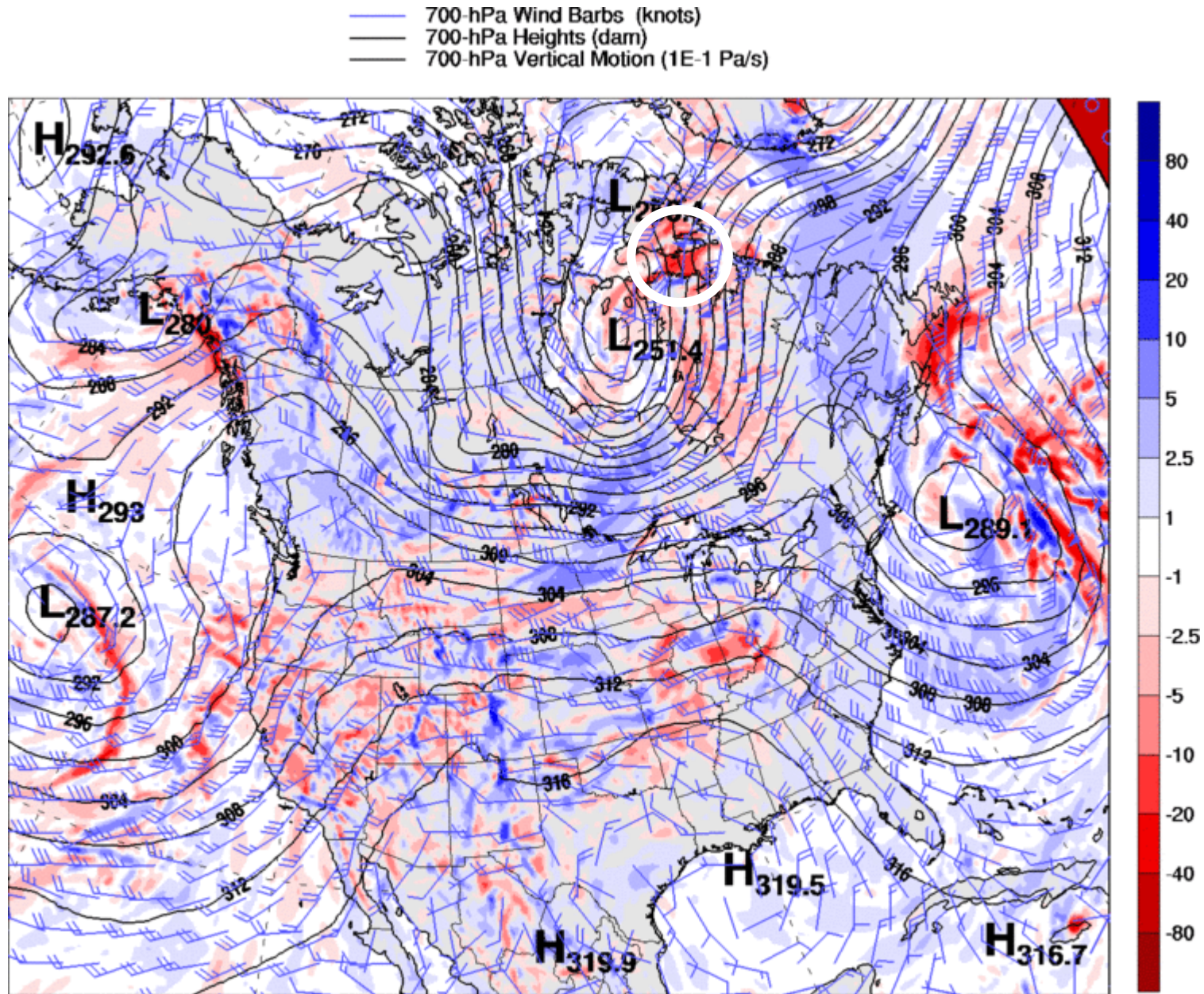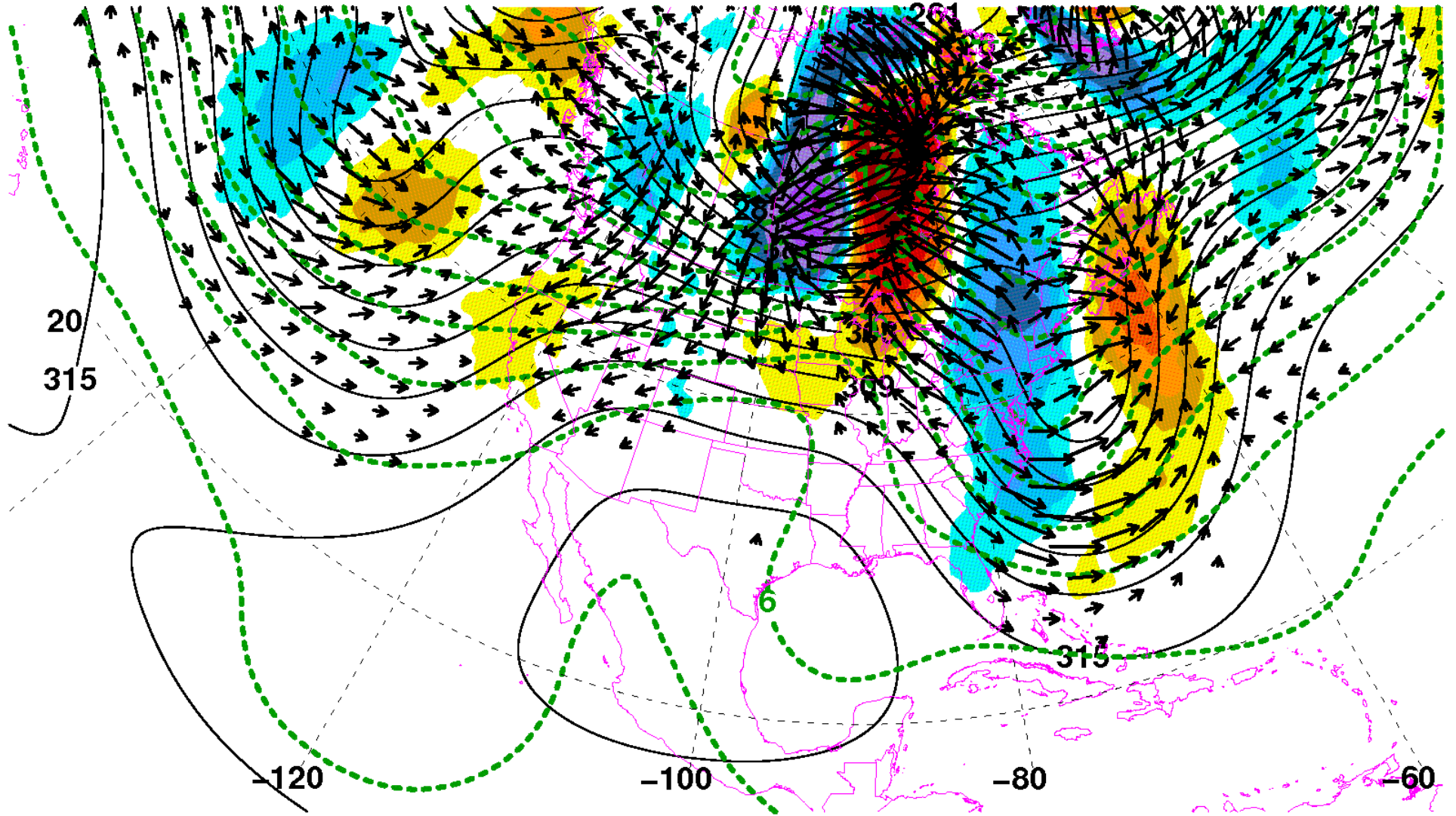
Unfortunately the U. Wyoming site that would have permitted to plot the horizontal divergence field is (temporarily) down

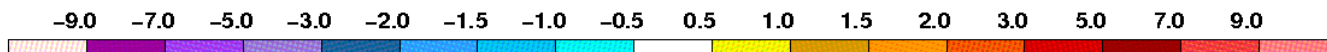# Surface pressure falling NE of the surface low (roughly where PTA, PVA occurring)

P3H Vld Lun-Mon 15Z 20 Mar-Mar 2017   SRPD/RDPS
Arrière plan: dP/dt (Pa/3h)   Background : dP/dt (Pa/3h)
-12,-8,-6,-5-4,-3,-2,-1 0, 1,2,3,4,5,6,8,12 hPa/3h   -12,-8,-6,-5,-4,-3,-2,-1 0, 1,2,3,4,5,6,8,12 hPa/3h
PNM (hPa)   MSLP (hPa)

Q-vector convergence

700 HGHT, TEMP, Q-vectors, Q-omeg RHS at 170320/0000V000

| -9.0 | -7.0 | -5.0 | -3.0 | -2.0 | -1.5 | -1.0 | -0.5 | 0.5 | 1.0 | 1.5 | 2.0 | 3.0 | 5.0 | 7.0 | 9.0 |

5. x10-7