

# 71119 WSE Edmonton Stony Plain Observations at 12Z 01 Mar 2012

| PRES<br>hPa | HGHT<br>m   | TEMP<br>C | DWPT<br>C | RELH<br>% | MIXR<br>g/kg | DRCT<br>deg | SKNT<br>knot | THTA<br>K | THTE<br>K | THTV<br>K |
|-------------|-------------|-----------|-----------|-----------|--------------|-------------|--------------|-----------|-----------|-----------|
| 1000.0      | 97          |           |           |           |              |             |              |           |           |           |
| 925.0       | 710         |           |           |           |              |             |              |           |           |           |
| 918.0       | <b>766</b>  | -11.1     | -12.9     | 87        | 1.55         | 350         | 6            | 268.5     | 272.9     | 268.8     |
| 900.5       | 914         | -12.7     | -13.9     | 91        | 1.46         | 340         | 18           | 268.4     | 272.5     | 268.6     |
| 894.0       | 969         | -13.3     | -14.3     | 92        | 1.42         | 338         | 17           | 268.3     | 272.3     | 268.5     |
| 878.0       | 1108        | -11.3     | -13.9     | 81        | 1.49         | 334         | 13           | 271.8     | 276.1     | 272.0     |
| 865.5       | 1219        | -11.1     | -13.7     | 81        | 1.54         | 330         | 10           | 273.1     | 277.5     | 273.3     |
| 850.0       | 1358        | -10.9     | -13.4     | 82        | 1.61         | 330         | 11           | 274.7     | 279.4     | 275.0     |
| 839.0       | 1458        | -10.9     | -12.7     | 87        | 1.72         | 336         | 12           | 275.7     | 280.8     | 276.0     |
| 799.2       | 1829        | -13.0     | -13.6     | 95        | 1.68         | 0           | 18           | 277.3     | 282.3     | 277.6     |
| 783.0       | 1986        | -13.9     | -14.0     | 99        | 1.66         | 8           | 17           | 278.0     | 282.9     | 278.3     |
| 767.9       | 2134        | -15.0     | -16.1     | 91        | 1.42         | 15          | 16           | 278.4     | 282.6     | 278.7     |
| 766.0       | 2152        | -15.1     | -16.4     | 90        | 1.39         | 17          | 16           | 278.5     | 282.6     | 278.7     |
| 761.0       | 2202        | -14.7     | -20.7     | 60        | 0.97         | 23          | 15           | 279.4     | 282.4     | 279.6     |
| 743.0       | 2383        | -16.3     | -22.3     | 60        | 0.87         | 44          | 11           | 279.6     | 282.3     | 279.8     |
| 739.0       | 2423        | -16.3     | -17.4     | 91        | 1.33         | 48          | 10           | 280.0     | 284.0     | 280.3     |
| 737.5       | 2438        | -16.4     | -17.5     | 91        | 1.32         | 50          | 10           | 280.1     | 284.0     | 280.3     |
| 717.0       | 2650        | -18.3     | -19.5     | 90        | 1.14         | 40          | 10           | 280.3     | 283.7     | 280.5     |
| 709.0       | 2734        | -17.9     | -23.9     | 59        | 0.79         | 35          | 10           | 281.6     | 284.1     | 281.7     |
| 708.1       | 2743        | -17.9     | -24.1     | 58        | 0.77         | 35          | 10           | 281.7     | 284.1     | 281.8     |
| 700.0       | 2829        | -18.1     | -26.1     | 50        | 0.65         | 50          | 10           | 282.4     | 284.5     | 282.5     |
| 695.0       | 2883        | -18.3     | -27.3     | 45        | 0.59         | 56          | 10           | 282.8     | 284.6     | 282.9     |
| 679.8       | 3048        | -19.2     | -26.4     | 53        | 0.65         | 75          | 10           | 283.6     | 285.6     | 283.7     |
| 678.0       | 3067        | -19.3     | -26.3     | 54        | 0.66         | 71          | 10           | 283.7     | 285.8     | 283.8     |
| 667.0       | 3189        | -19.3     | -31.3     | 34        | 0.42         | 43          | 8            | 285.0     | 286.4     | 285.1     |
| 641.0       | 3484        | -21.5     | -24.6     | 76        | 0.82         | 335         | 5            | 285.8     | 288.3     | 285.9     |
| 627.0       | 3646        | -22.3     | -25.0     | 79        | 0.81         | 298         | 3            | 286.6     | 289.2     | 286.8     |
| 626.0       | 3658        | -22.4     | -25.1     | 79        | 0.80         | 295         | 3            | 286.7     | 289.2     | 286.8     |
| 580.0       | 4215        | -26.3     | -28.6     | 81        | 0.63         | 13          | 1            | 288.4     | 290.5     | 288.5     |
| 575.8       | 4267        | -26.5     | -28.6     | 82        | 0.63         | 20          | 1            | 288.8     | 290.9     | 288.9     |
| 549.0       | 4612        | -27.5     | -28.8     | 89        | 0.65         | 304         | 3            | 291.6     | 293.7     | 291.7     |
| 529.1       | 4877        | -28.7     | -32.6     | 69        | 0.47         | 245         | 5            | 293.2     | 294.8     | 293.3     |
| 526.0       | 4919        | -28.9     | -33.2     | 66        | 0.45         | 240         | 5            | 293.5     | 295.0     | 293.5     |
| 505.0       | 5210        | -31.1     | -38.1     | 50        | 0.28         | 204         | 6            | 294.2     | 295.2     | 294.3     |
| 500.0       | <b>5280</b> | -31.9     | -37.9     | 55        | 0.29         | 195         | 6            | 294.1     | 295.1     | 294.1     |
| 466.0       | 5773        | -36.5     | -39.7     | 72        | 0.26         | 198         | 8            | 294.3     | 295.3     | 294.4     |
| 444.6       | 6096        | -39.5     | -44.9     | 57        | 0.16         | 200         | 10           | 294.5     | 295.1     | 294.5     |
| 438.0       | 6199        | -40.5     | -46.5     | 52        | 0.13         | 201         | 9            | 294.5     | 295.0     | 294.6     |
| 407.0       | 6694        | -45.3     | -49.4     | 63        | 0.10         | 204         | 7            | 294.6     | 295.0     | 294.6     |
| 400.0       | 6810        | -46.3     | -50.3     | 64        | 0.10         | 205         | 6            | 294.7     | 295.1     | 294.8     |

500 hPa surface is:

5280-766 = 4514 m AGL

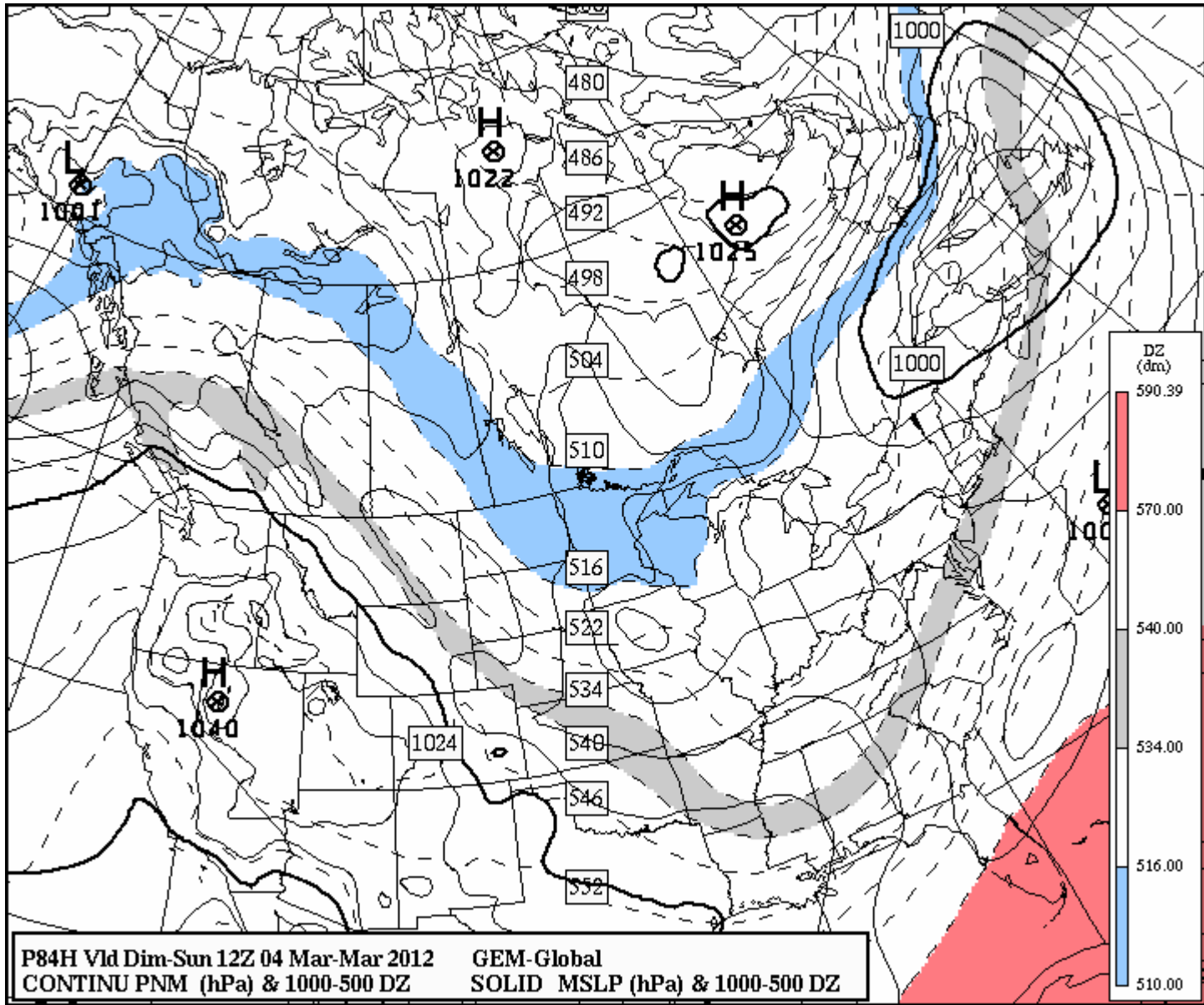
Thickness (1000-500 hPa) is:

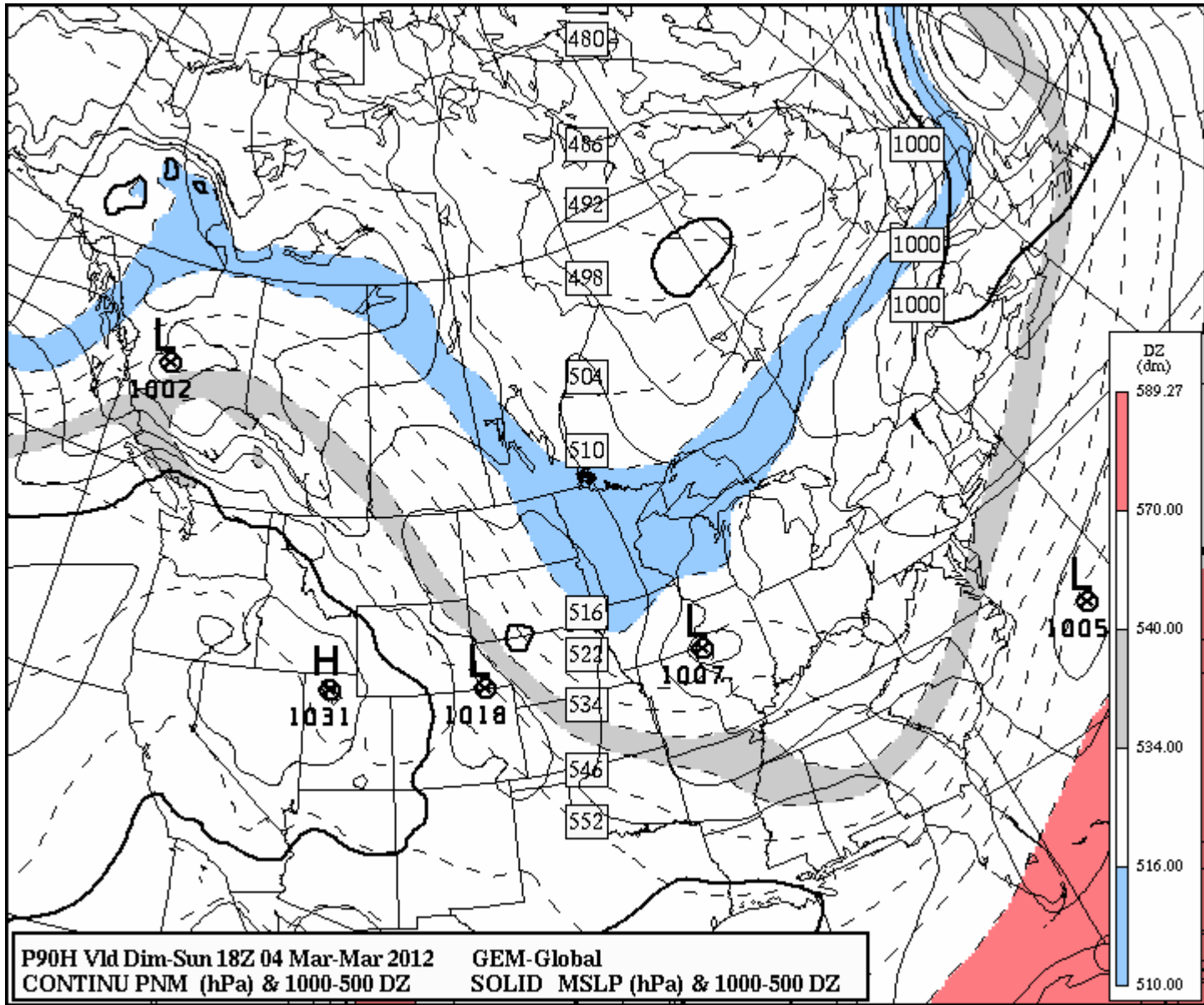
5280-97 = 5183 m or 518 dam

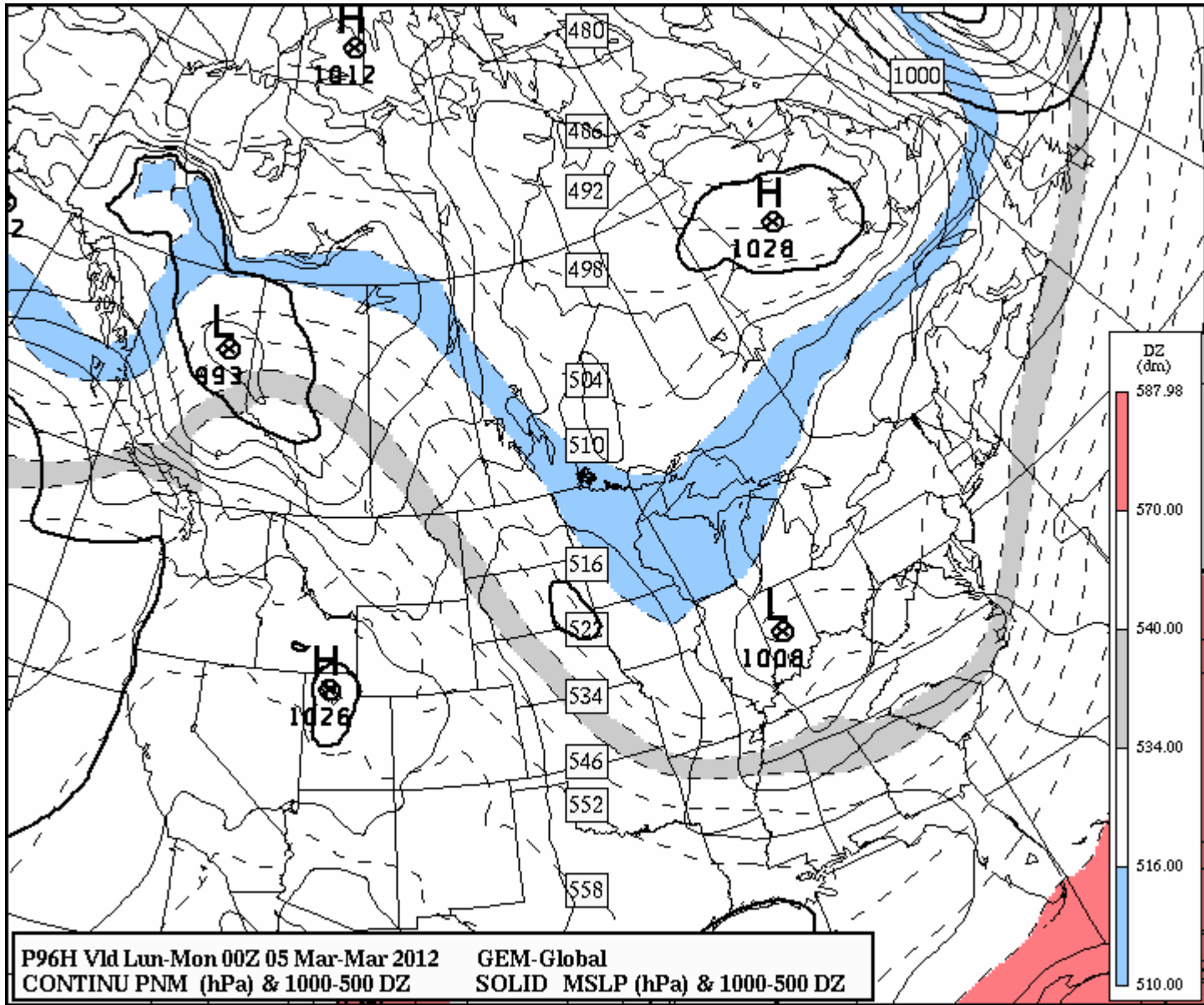
YEG EDMONTON INTL ARPT AB CN  
Raw surface observations for station CYEG

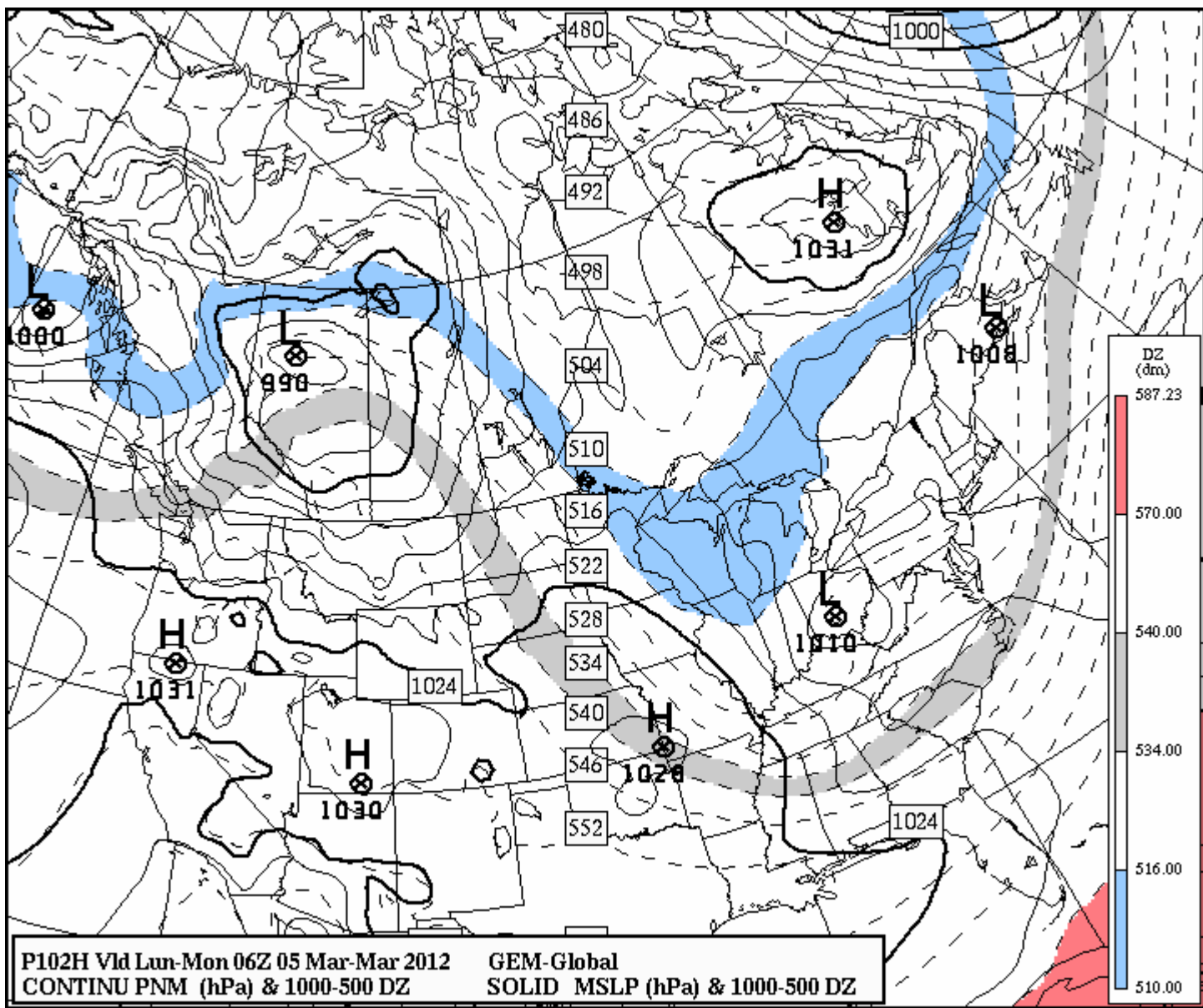
CYEG 292300Z 32005KT 6SM BR BKN110 OVC240 M11/M13 A2954 RMK AS6CS2 SLP067=  
CYEG 292200Z 29004KT 5SM BR BKN130 OVC230 M11/M13 A2953 RMK AS5CS2 SLP063=  
CYEG 292100Z 00000KT 3SM BR BKN140 BKN180 OVC230 M13/M14 A2952 RMK AS5AS1CS2 SLP061=  
CYEG 292022Z 00000KT 3SM BR BKN130 BKN180 OVC240 M13/ RMK AS3AS2CS2=  
CYEG 292000Z 24002KT 2 1/2SM BR FEW004 BKN140 BKN240 M14/M15 A2953 RMK ST1AS4CS1 SLP066=  
CYEG 012000Z 33011KT 10SM -SN FEW025 SCT040 BKN220 M12/M16 A2984 RMK SC1SC2CI2 SN VRY LGT SLP160=  
CYEG 011900Z 33012KT 5SM -SN FEW025 SCT040 BKN220 M12/M16 A2983 RMK SC2SC2CI2 SLP157=  
CYEG 011800Z 33010KT 5SM -SN FEW028 SCT045 BKN220 M13/M17 A2983 RMK SC2SC2CI2 VIS SE 2 SLP155=  
CYEG 011745Z 34010KT 4SM -SN FEW028 BKN045 BKN220 M13/ RMK SC2SC2CI2 VIS SE 2=  
CYEG 011721Z 34011KT 2 1/2SM -SN FEW028 BKN045 OVC220 M13/ RMK SN1SC2SC4CI1 VIS N 3=  
CYEG 011700Z 33012KT 6SM -SN FEW028 BKN045 OVC220 M13/M17 A2981 RMK SC2SC5CI1 VIS SE 2 SLP146=  
CYEG 011600Z 34010KT 6SM -SN FEW028 BKN042 BKN220 M13/M16 A2978 RMK SC1SC4CI2 VIS SE 2 SLP137=  
CYEG 011500Z 33011KT 6SM -SN OVC043 M12/M16 A2976 RMK SC7 VIS SE 4 SLP130=  
CYEG 011435Z 34012KT 12SM -SN BKN040 OVC055 M12/ RMK SC7SC1=  
CYEG 011400Z 34010KT 15SM BKN036 OVC055 M11/M15 A2974 RMK SC7SC1 SLP124=  
CYEG 011300Z 33009KT 15SM SCT032 BKN055 BKN100 M12/M16 A2971 RMK SC3SC2AC2 SLP114=  
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CYEG 010700Z 30005KT 15SM OVC110 M10/M14 A2961 RMK AS8 SLP084=  
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CYEG 010200Z 29005KT 12SM OVC095 M11/M15 A2958 RMK AS8 BR SLP084=  
CYEG 010100Z 31005KT 8SM OVC095 M11/M15 A2956 RMK AS8 BR SLP075=  
CYEG 010000Z 33006KT 7SM OVC100 M11/M15 A2955 RMK AS8 BR SLP073=

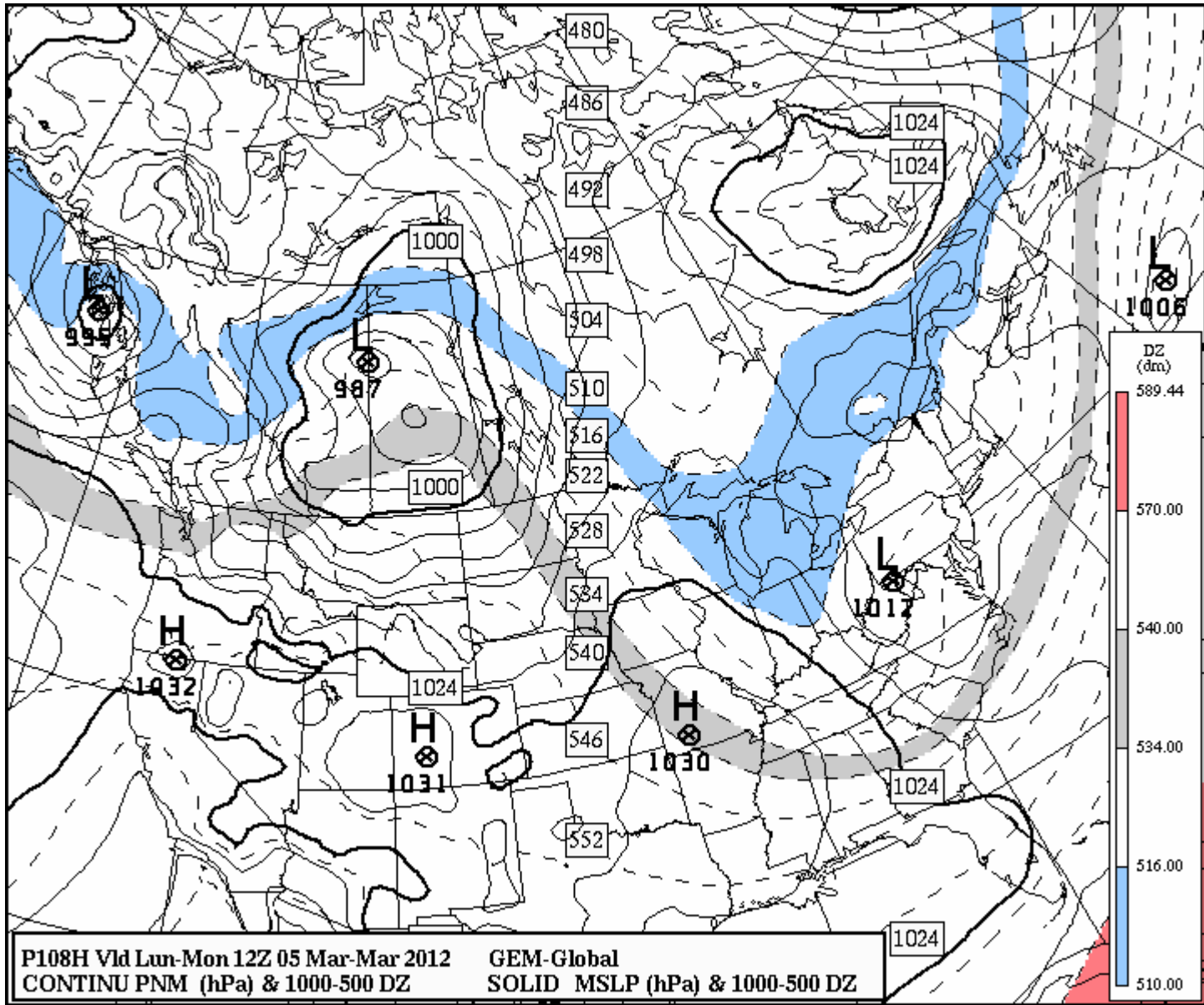
The slides to follow have been taken from the GEM Global prog initialized 00Z Thurs  
1 March



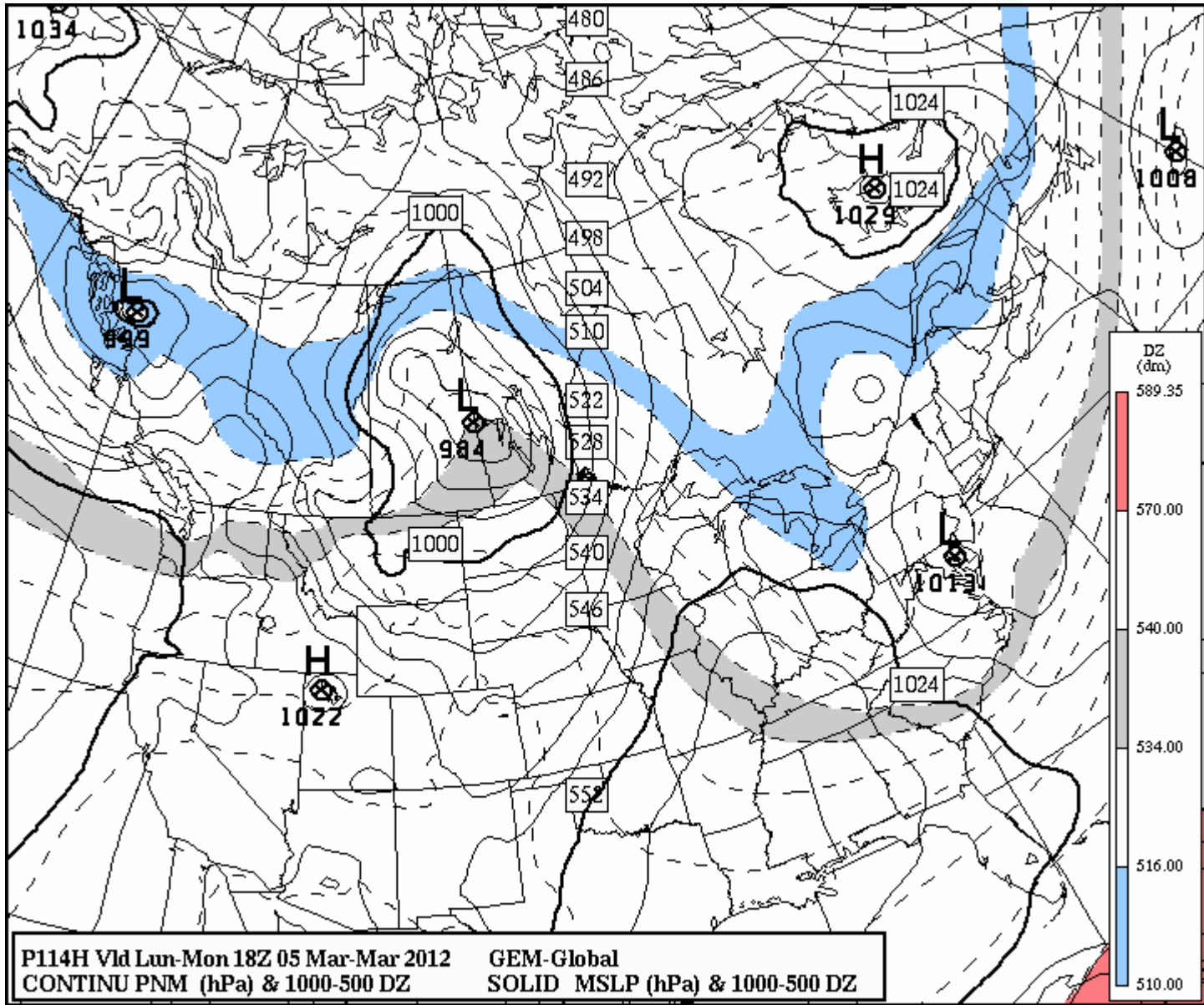


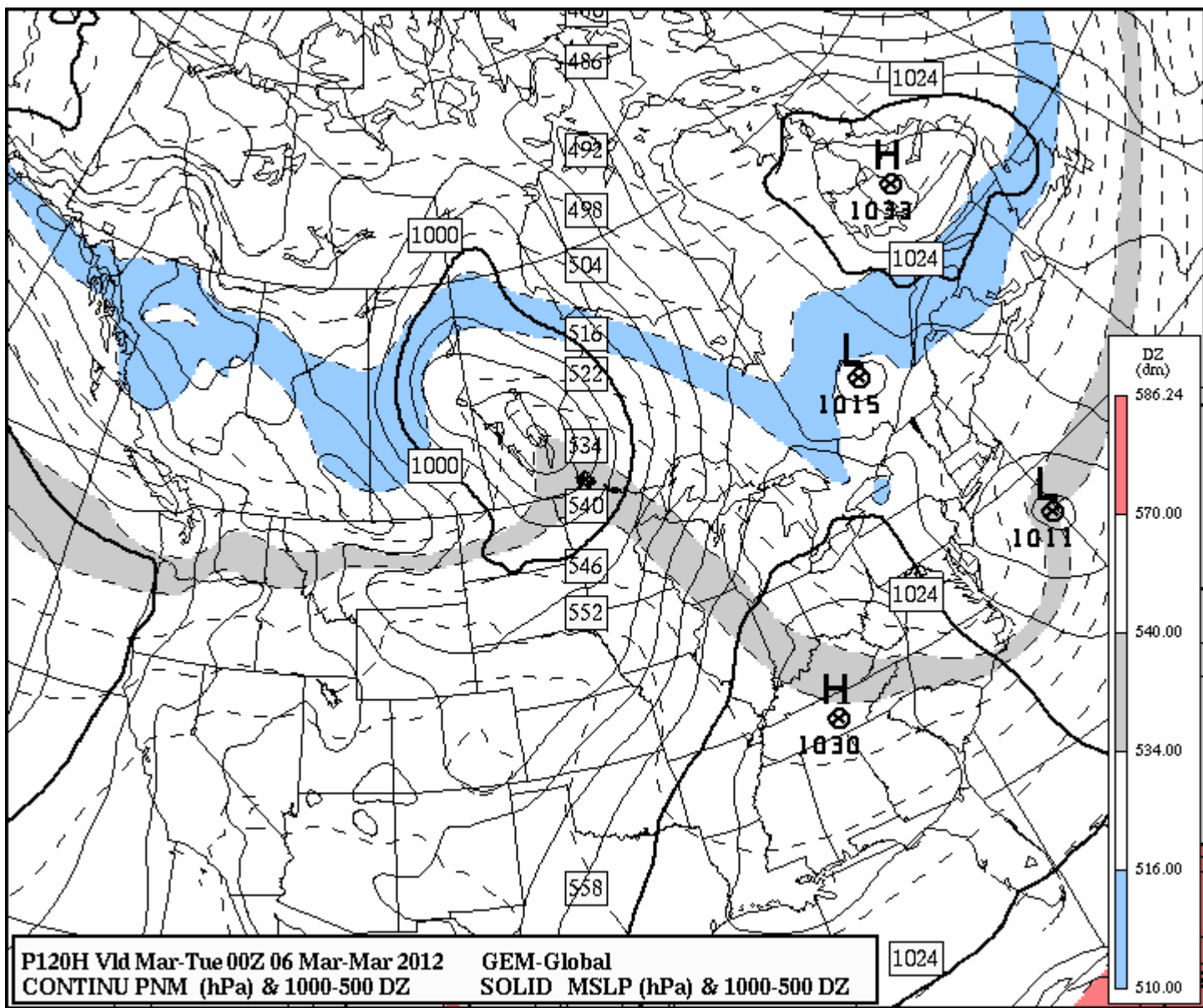


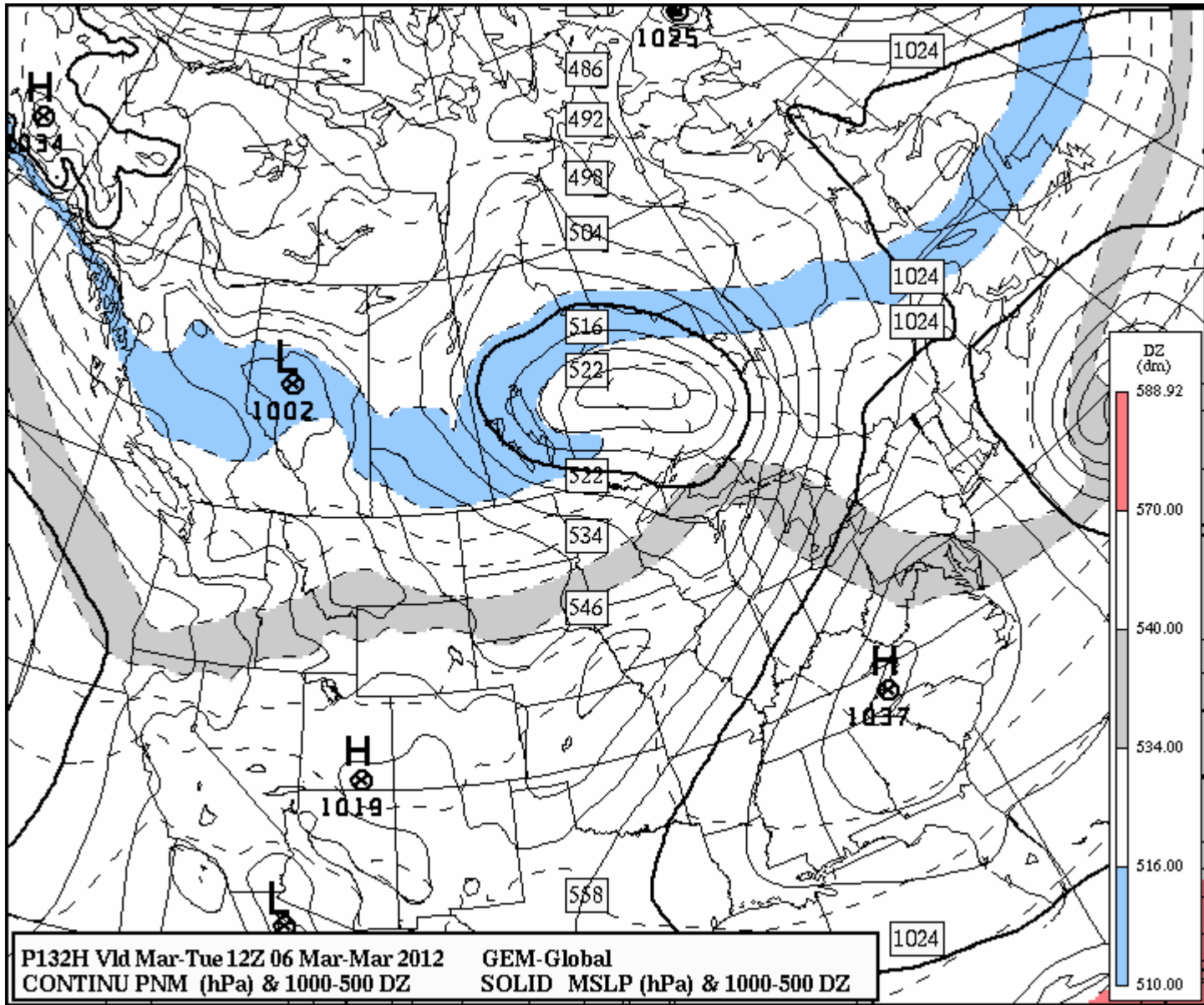


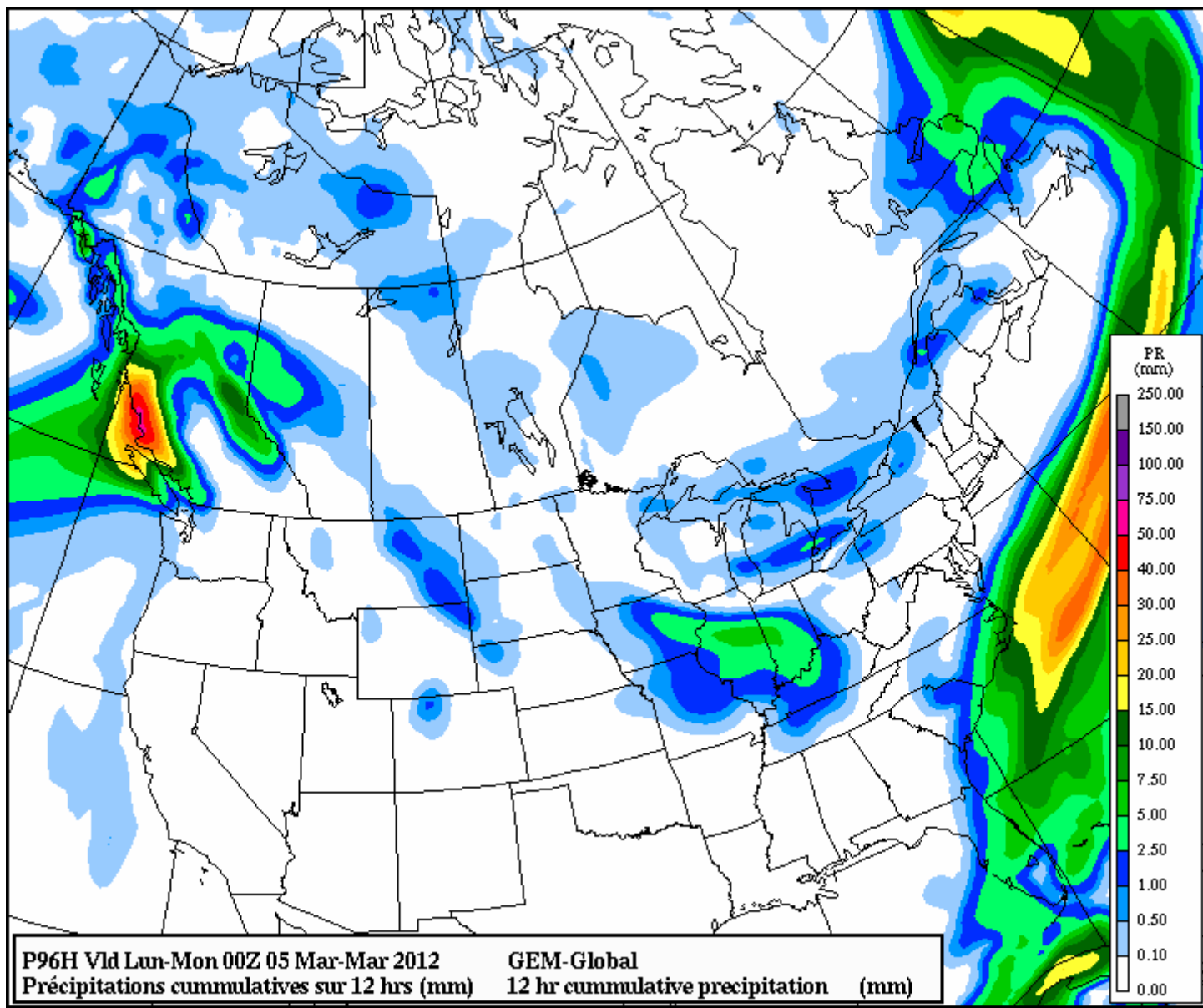


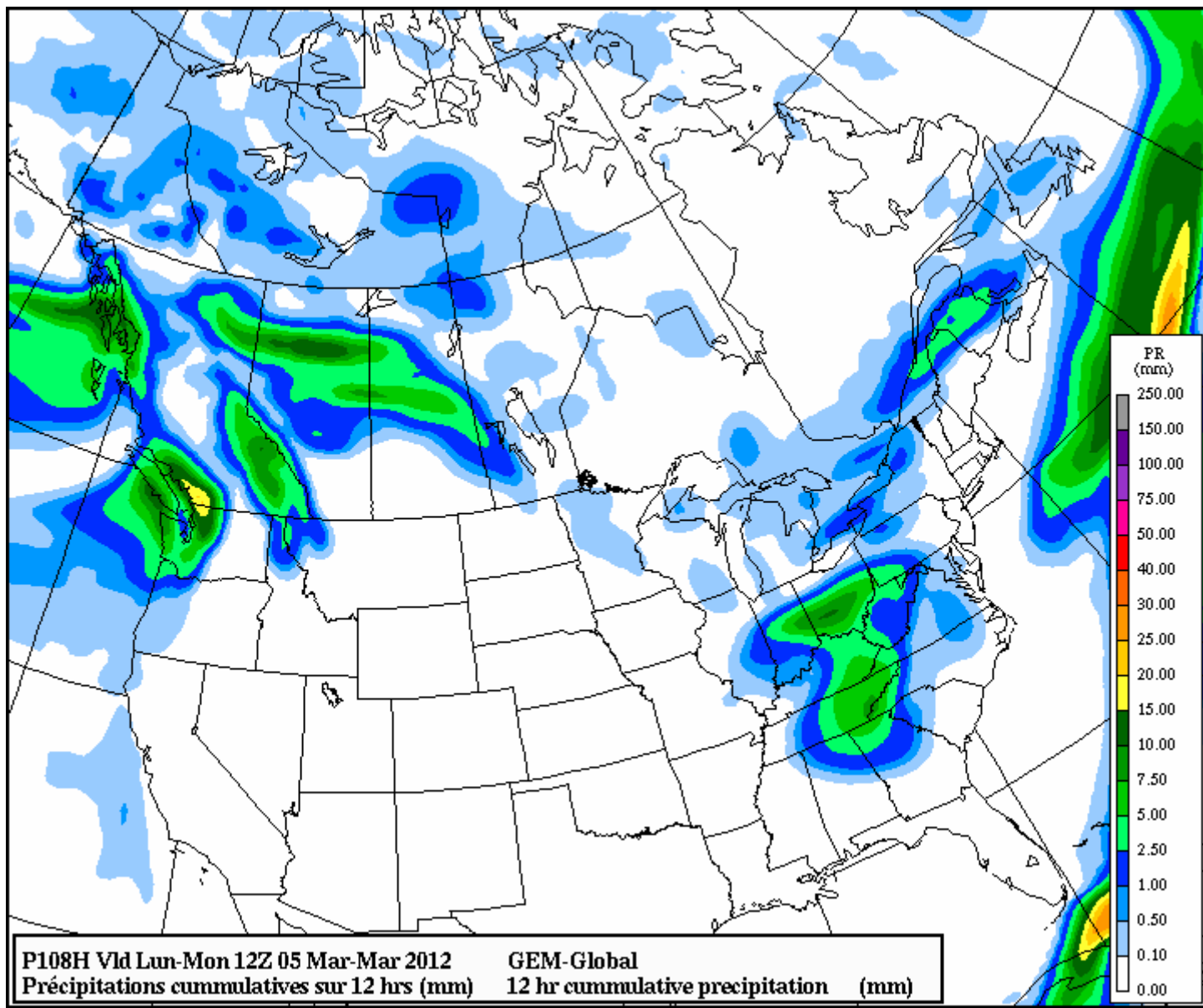


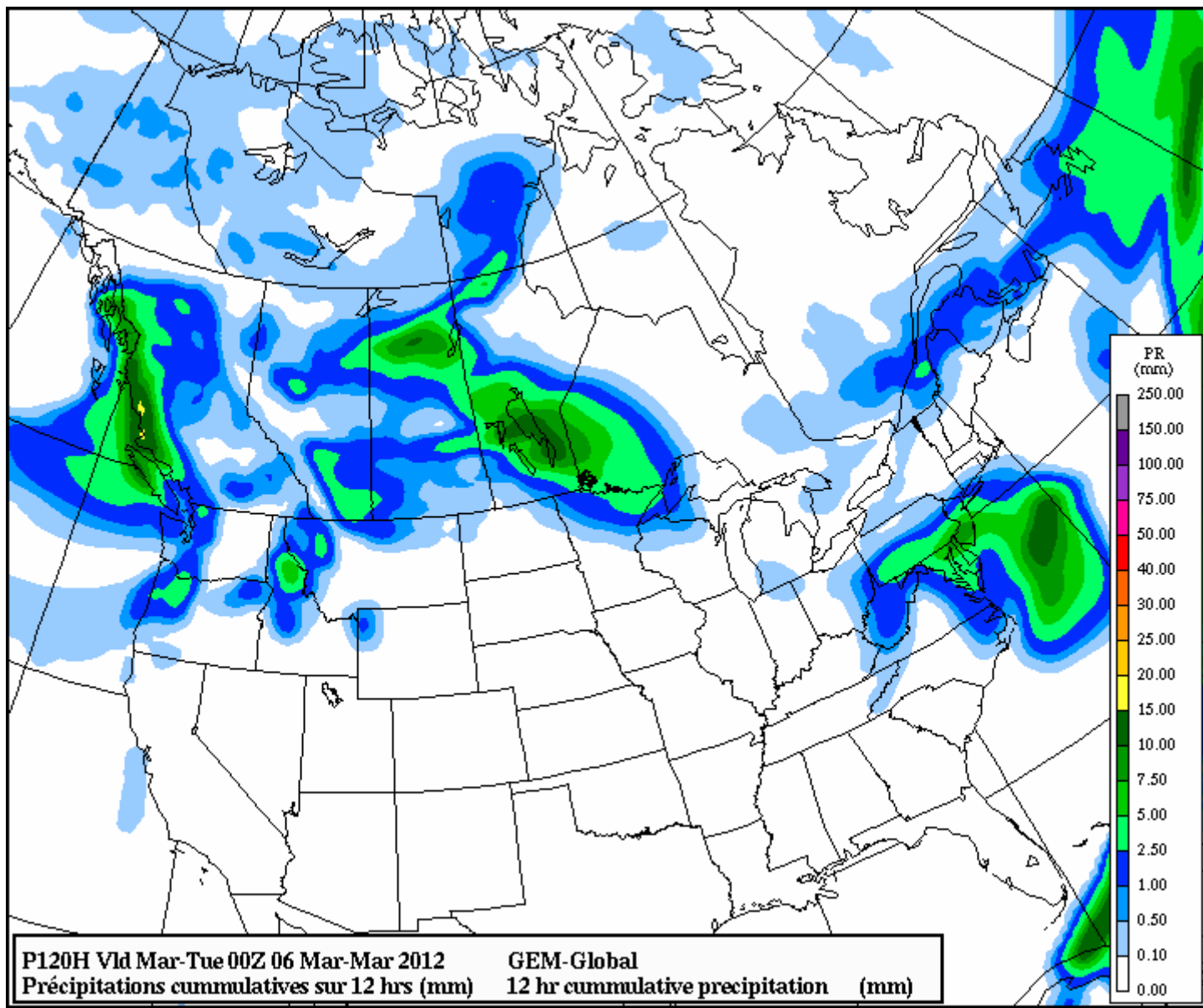




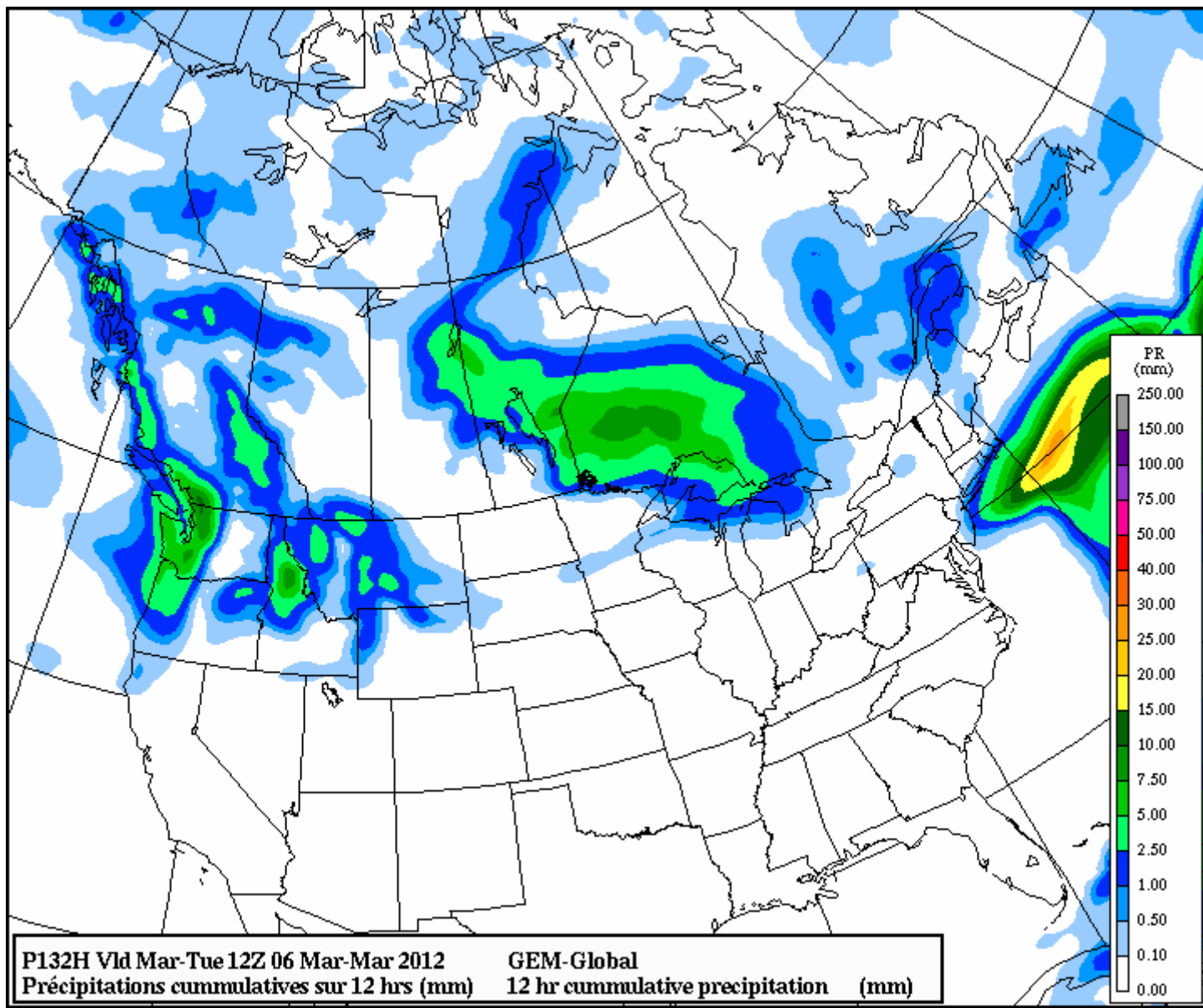




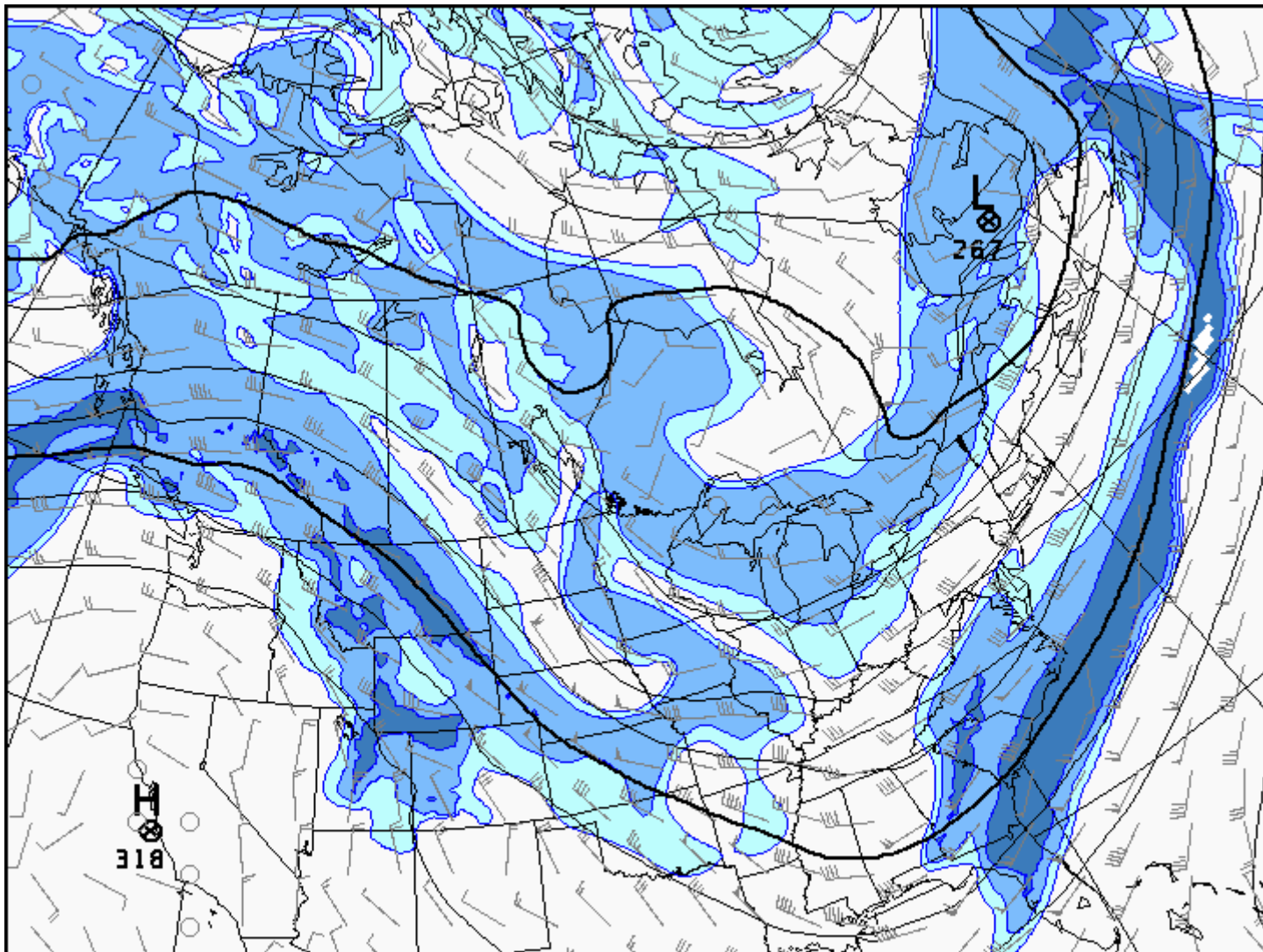








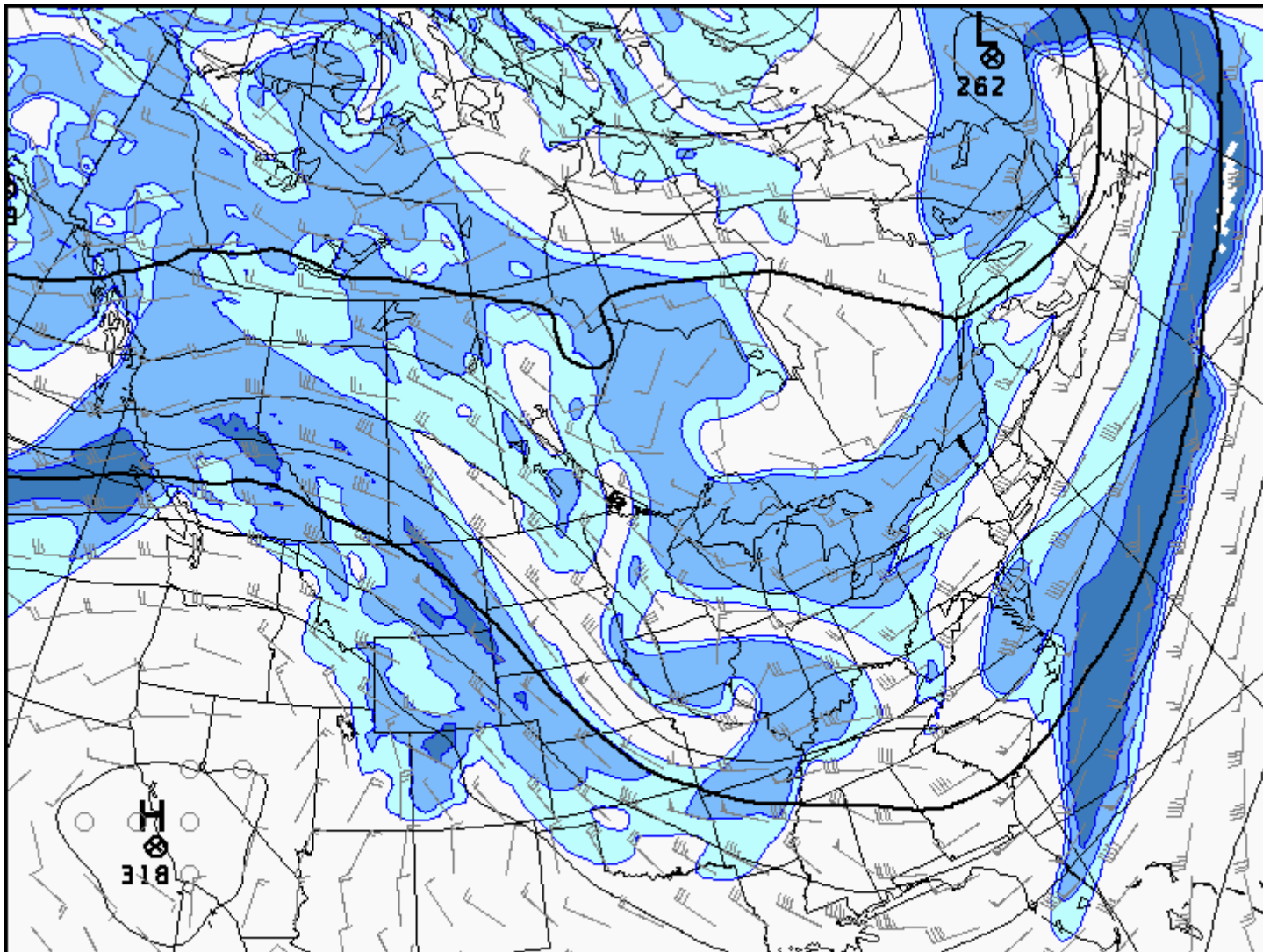
P132H Vld Mar-Tue 12Z 06 Mar-Mar 2012 GEM-Global  
Précipitations cummulative sur 12 hrs (mm) 12 hr cummulative precipitation (mm)



P84H Vld Dim-Sun 12Z 04 Mar-Mar 2012  
Arrière plan: Humidité relative à 700 hPa (50,70,90%)  
Hauteur géopotentielle à 700 hPa (dam)

GEM-Global  
Background: Relative humidity at 700 hPa (50,70,90%)  
Geopotential height at 700 hPa (dam)





P90H Vld Dim-Sun 18Z 04 Mar-Mar 2012

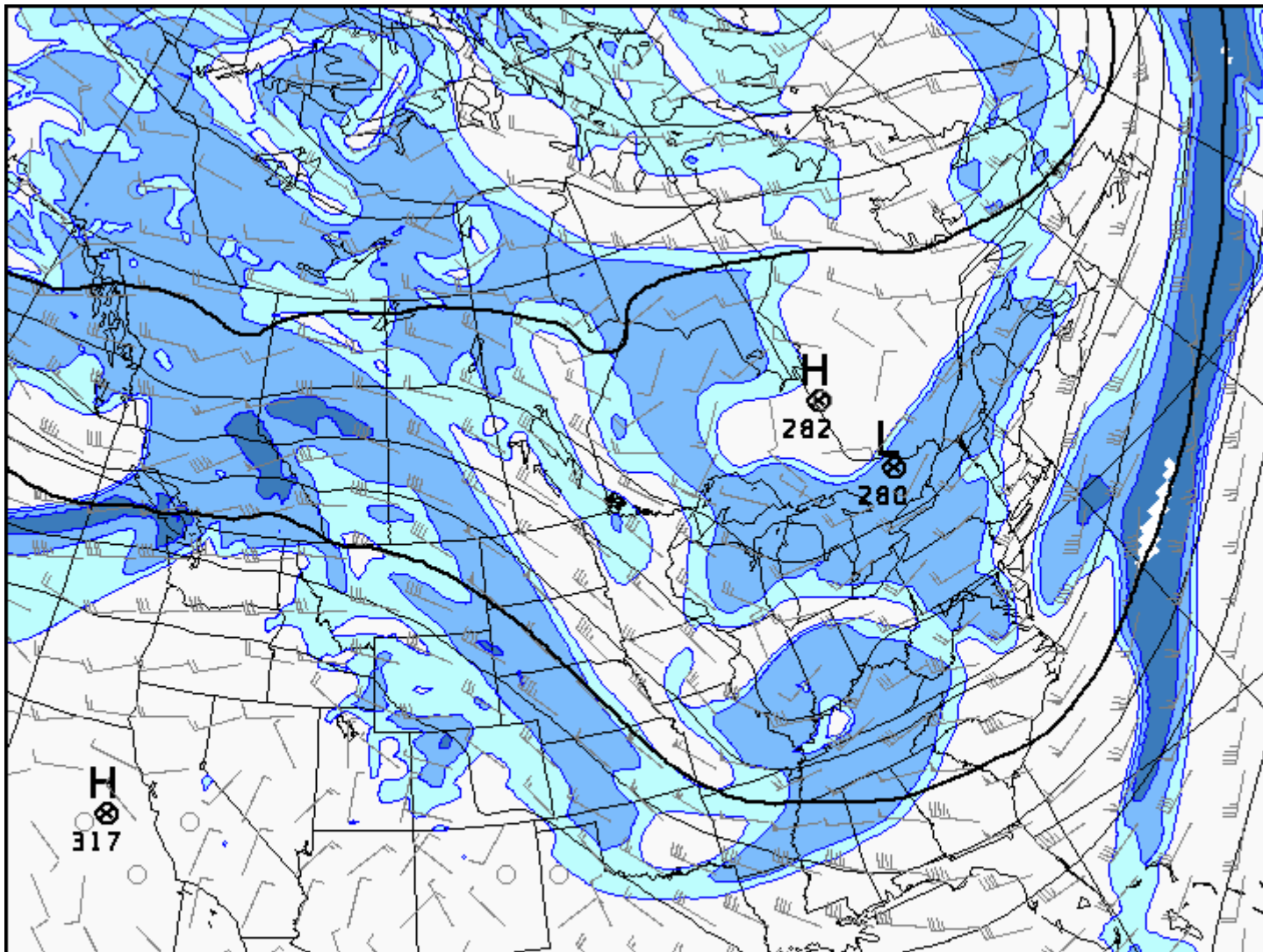
Arrière plan: Humidité relative à 700 hPa (50,70,90%)

Hauteur géopotentielle à 700 hPa (dam)

GEM-Global

Background: Relative humidity at 700 hPa (50,70,90%)

Geopotential height at 700 hPa (dam)



P96H Vld Lun-Mon 00Z 05 Mar-Mar 2012

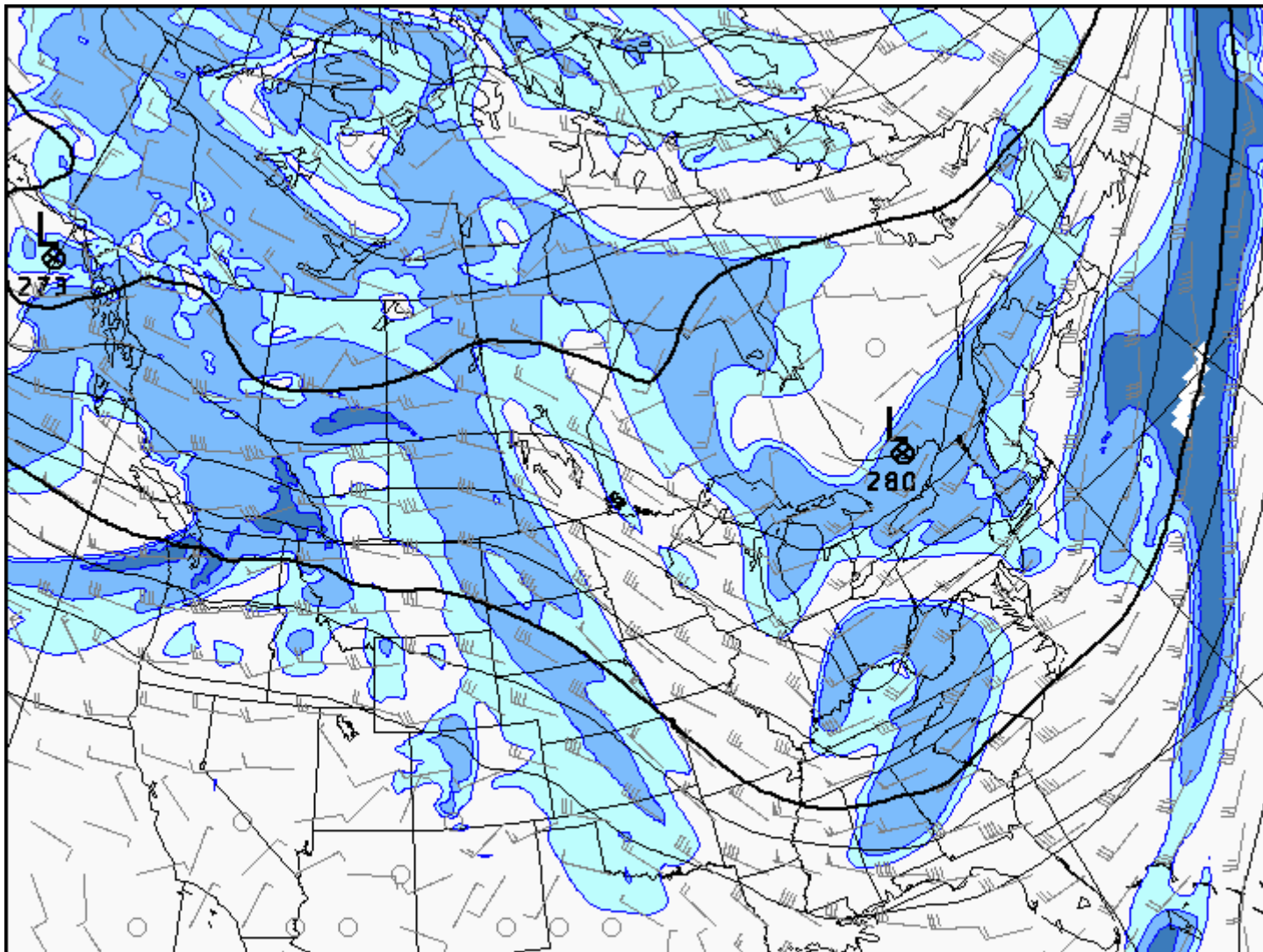
Arrière plan: Humidité relative à 700 hPa (50,70,90%)

Hauteur géopotentielle à 700 hPa (dam)

GEM-Global

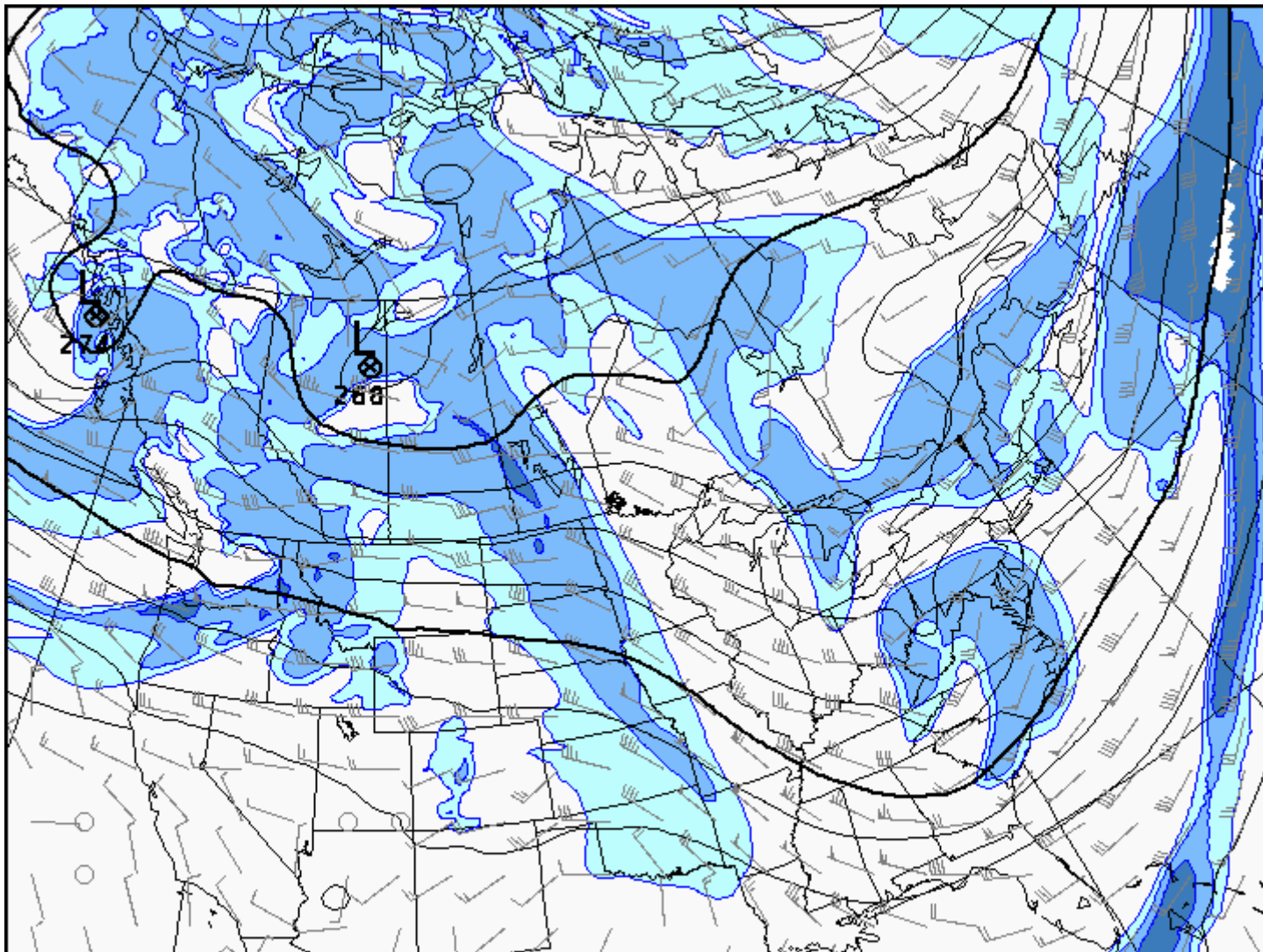
Background: Relative humidity at 700 hPa (50,70,90%)

Geopotential height at 700 hPa (dam)



P102H Vld Lun-Mon 06Z 05 Mar-Mar 2012  
Arrière plan: Humidité relative à 700 hPa (50,70,90%)  
Hauteur géopotentielle à 700 hPa (dam)

GEM-Global  
Background: Relative humidity at 700 hPa (50,70,90%)  
Geopotential height at 700 hPa (dam)



P108H Vld Lun-Mon 12Z 05 Mar-Mar 2012

Arrière plan: Humidité relative à 700 hPa (50,70,90%)

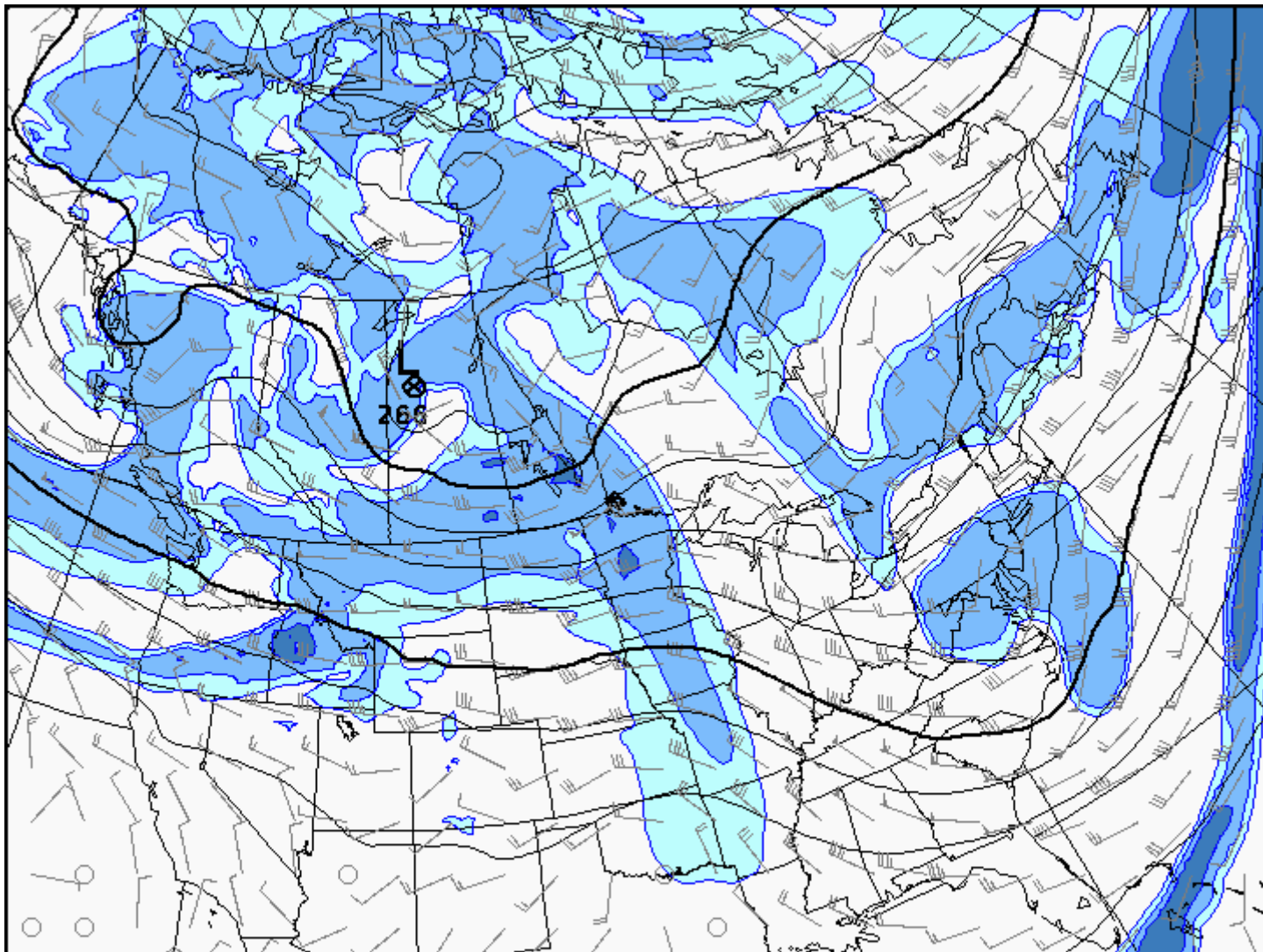
Hauteur géopotentielle à 700 hPa (dam)

GEM-Global

Background: Relative humidity at 700 hPa (50,70,90%)

Geopotential height at 700 hPa (dam)





P114H Vld Lun-Mon 18Z 05 Mar-Mar 2012

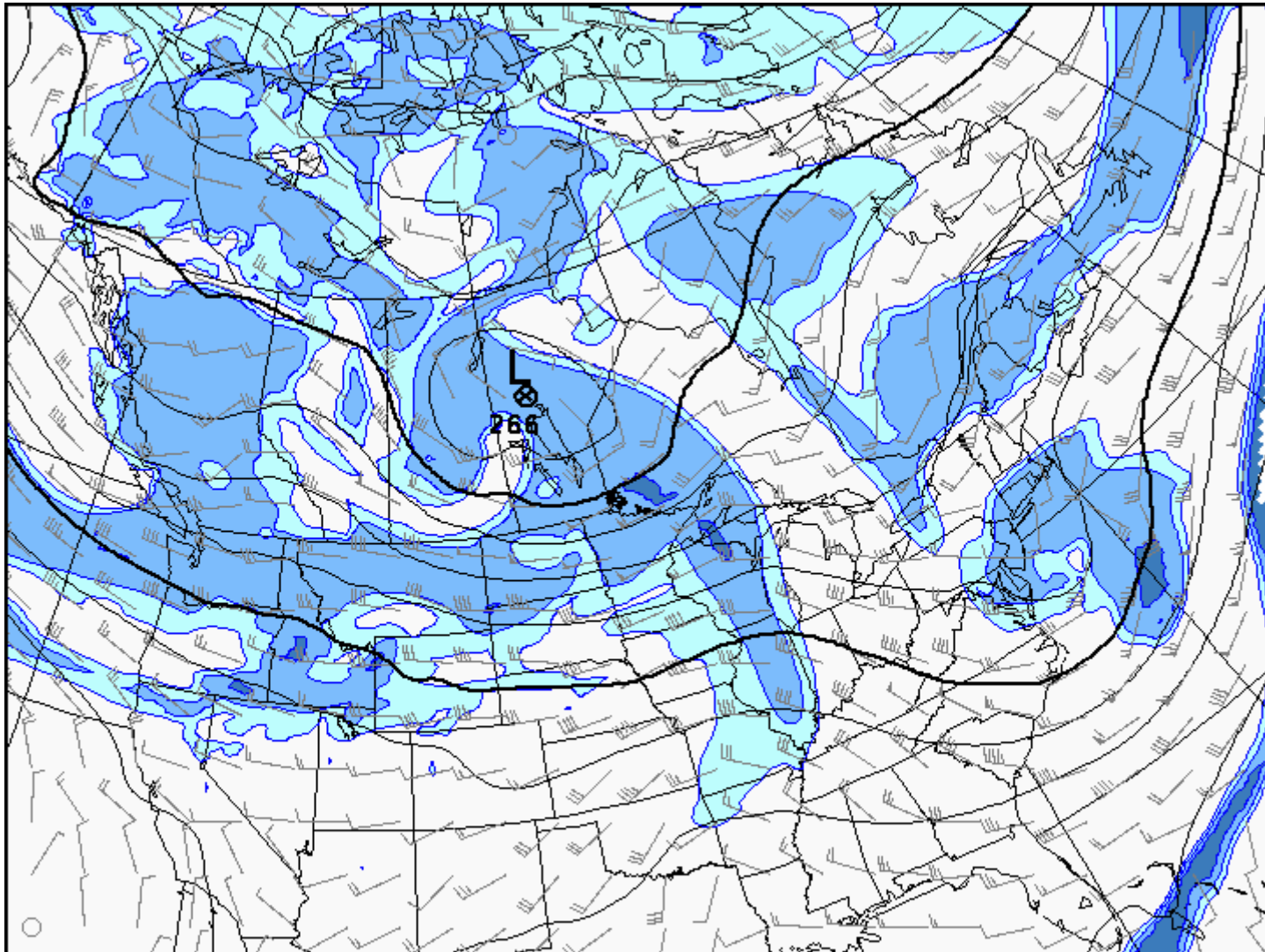
Arrière plan: Humidité relative à 700 hPa (50,70,90%)

Hauteur géopotentielle à 700 hPa (dam)

GEM-Global

Background: Relative humidity at 700 hPa (50,70,90%)

Geopotential height at 700 hPa (dam)



P120H Vld Mar-Tue 00Z 06 Mar-Mar 2012

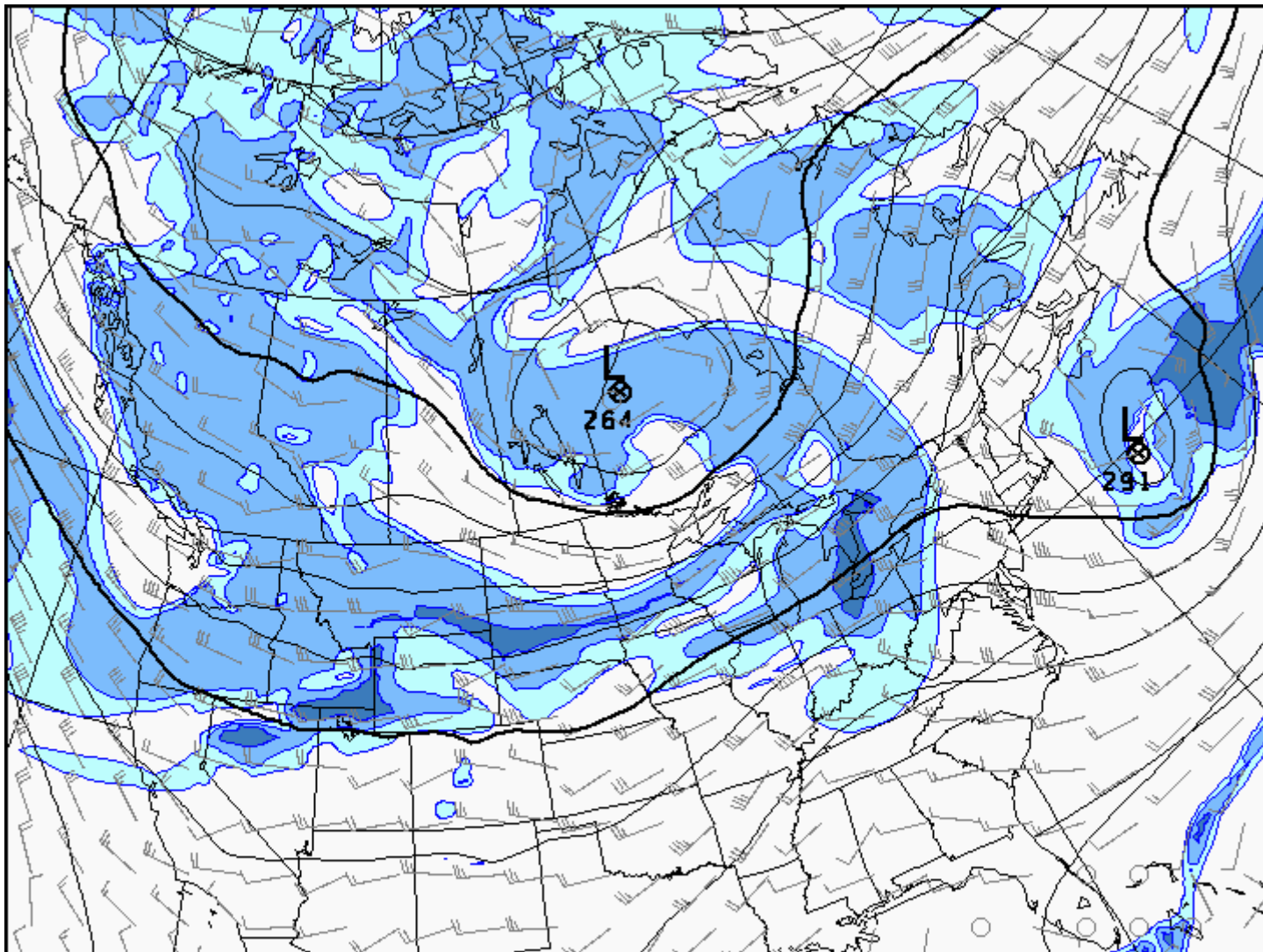
Arrière plan: Humidité relative à 700 hPa (50,70,90%)

Hauteur géopotentielle à 700 hPa (dam)

GEM-Global

Background: Relative humidity at 700 hPa (50,70,90%)

Geopotential height at 700 hPa (dam)



P132H Vld Mar-Tue 12Z 06 Mar-Mar 2012

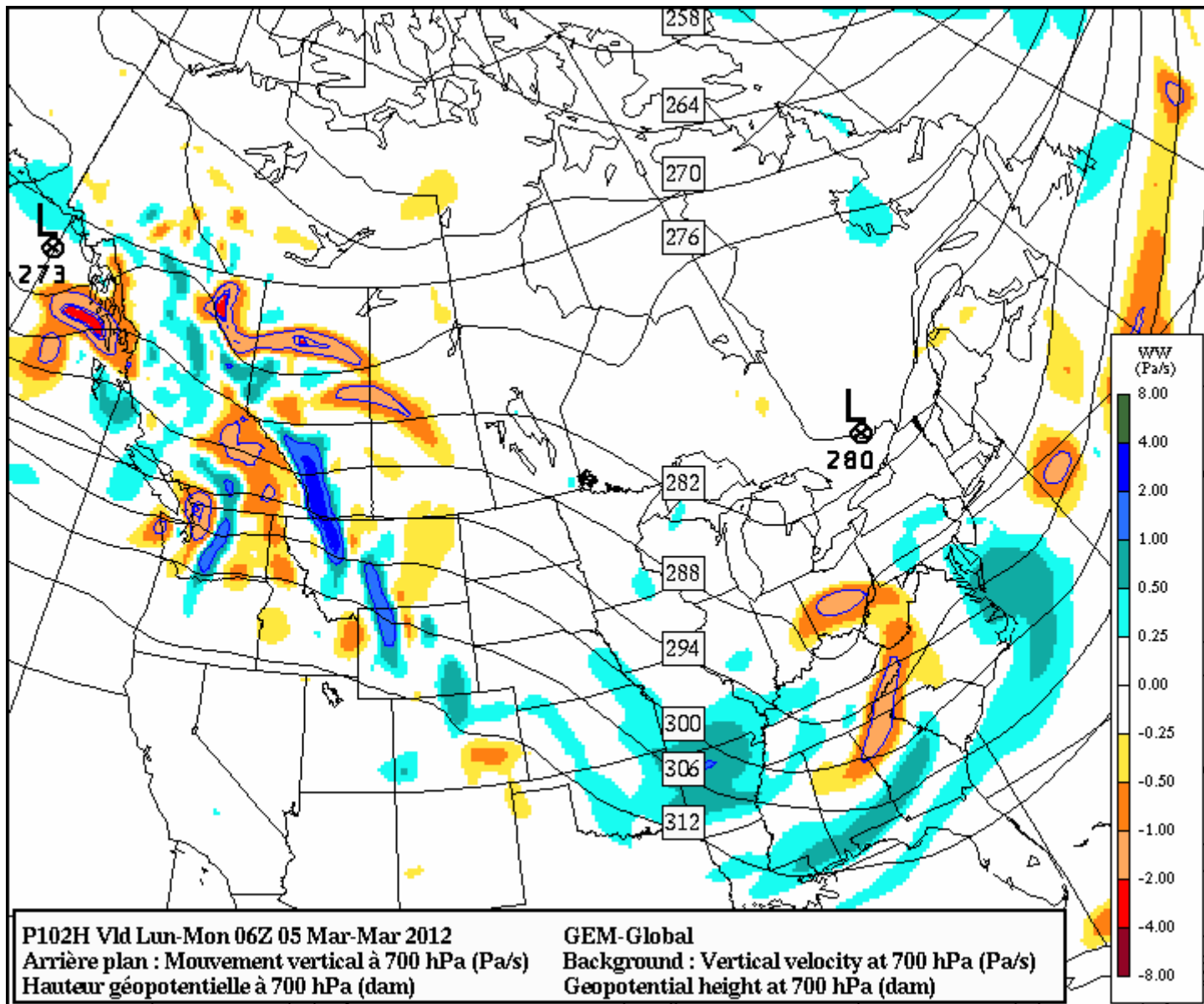
Arrière plan: Humidité relative à 700 hPa (50,70,90%)

Hauteur géopotentielle à 700 hPa (dam)

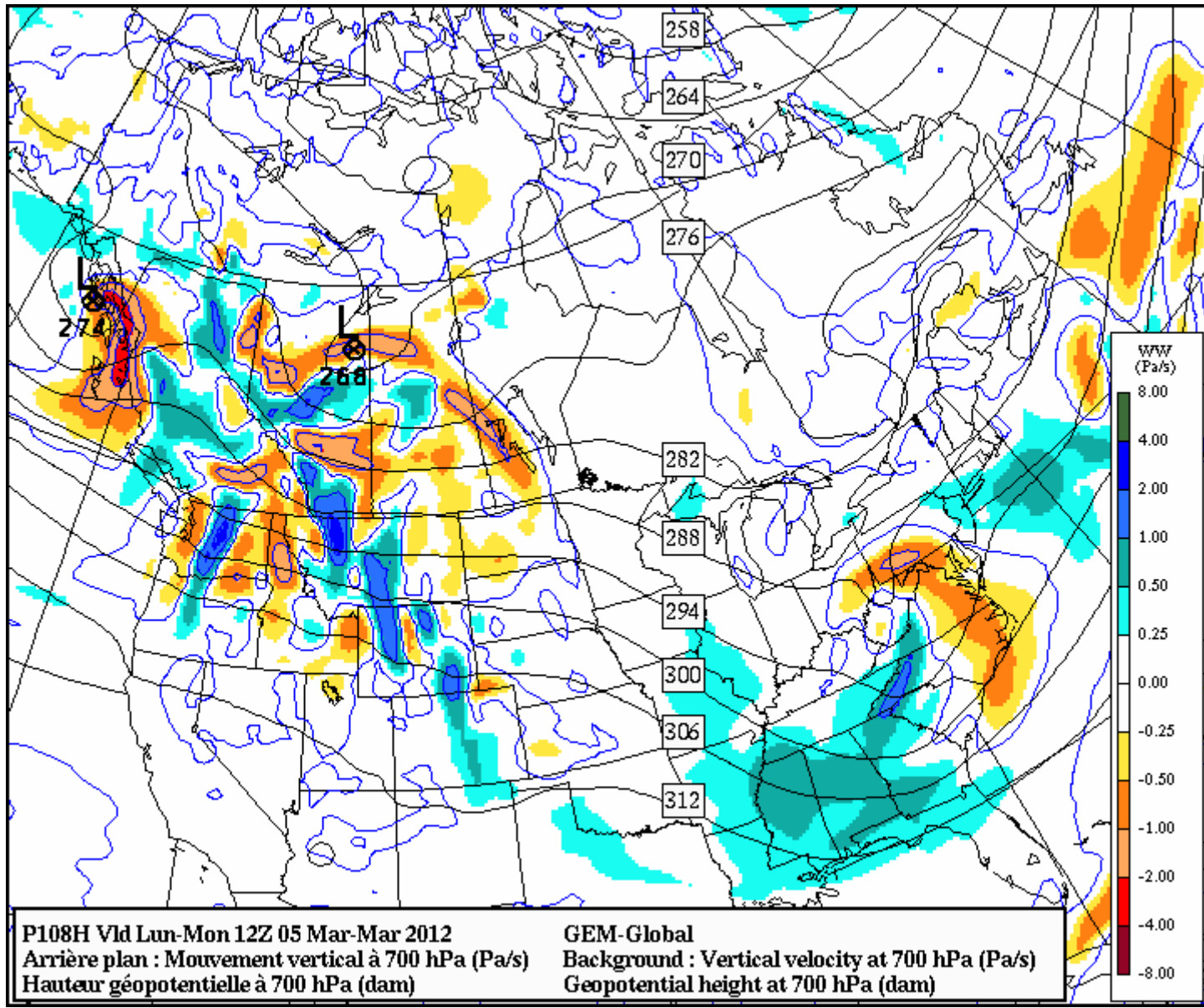
GEM-Global

Background: Relative humidity at 700 hPa (50,70,90%)

Geopotential height at 700 hPa (dam)

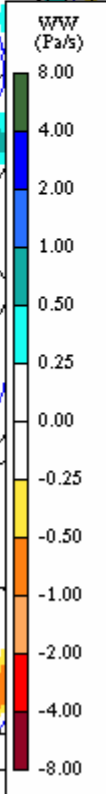


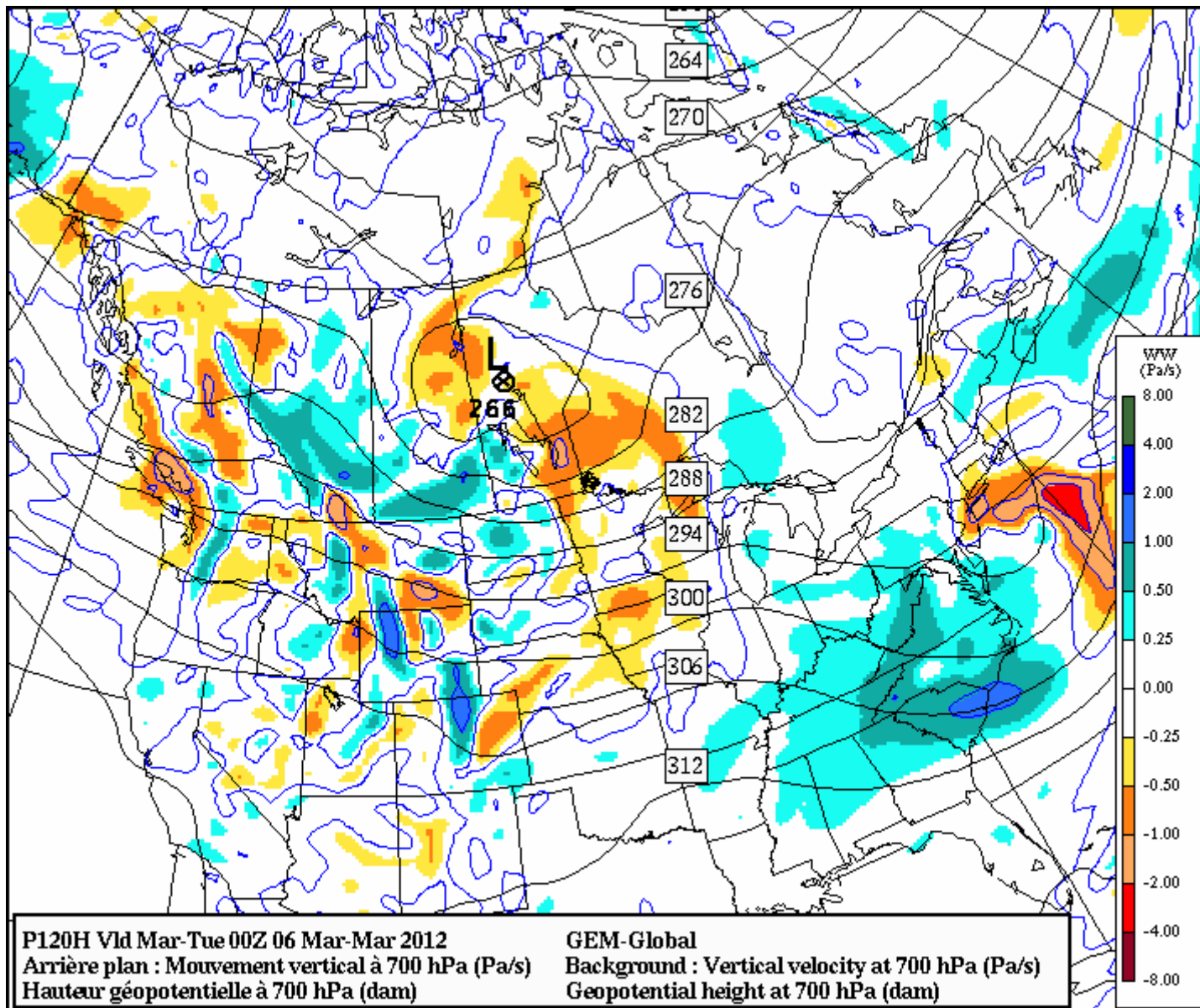


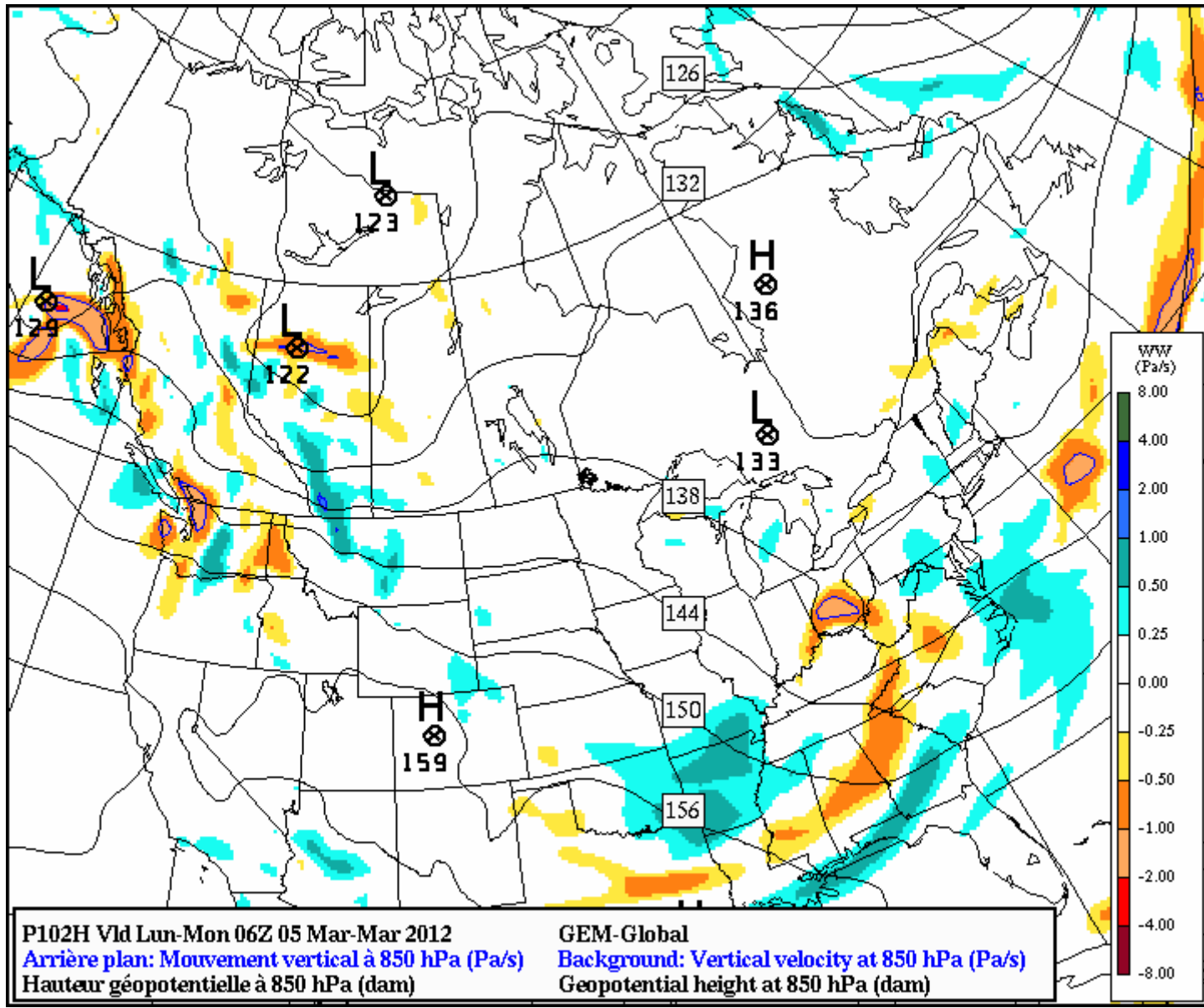


**P108H Vld Lun-Mon 12Z 05 Mar-Mar 2012**  
 Arrière plan : Mouvement vertical à 700 hPa (Pa/s)  
 Hauteur géopotentielle à 700 hPa (dam)

**GEM-Global**  
 Background : Vertical velocity at 700 hPa (Pa/s)  
 Geopotential height at 700 hPa (dam)

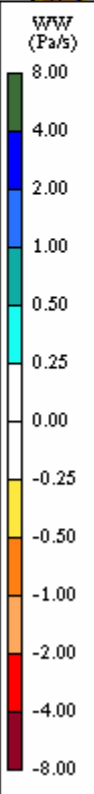


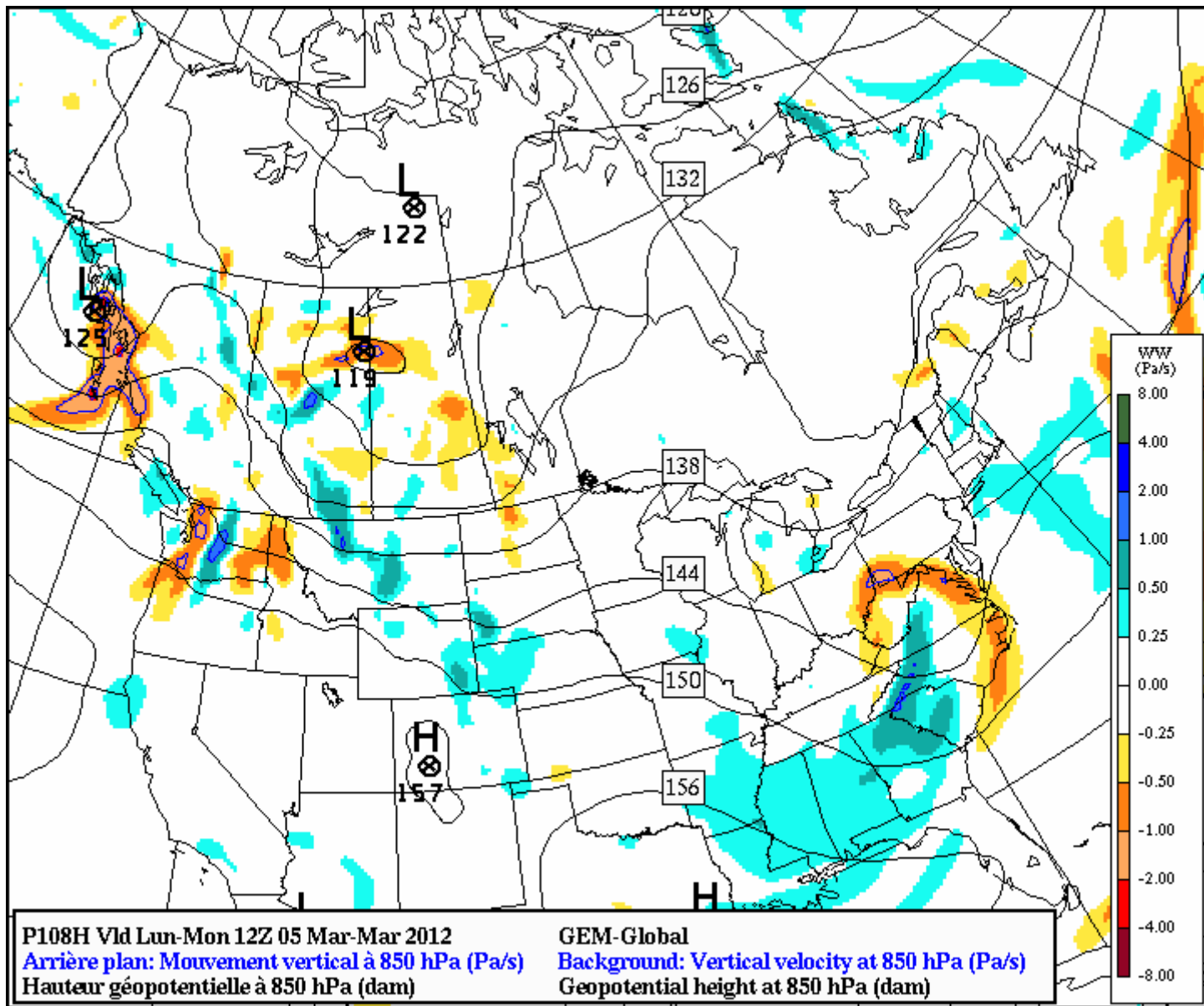


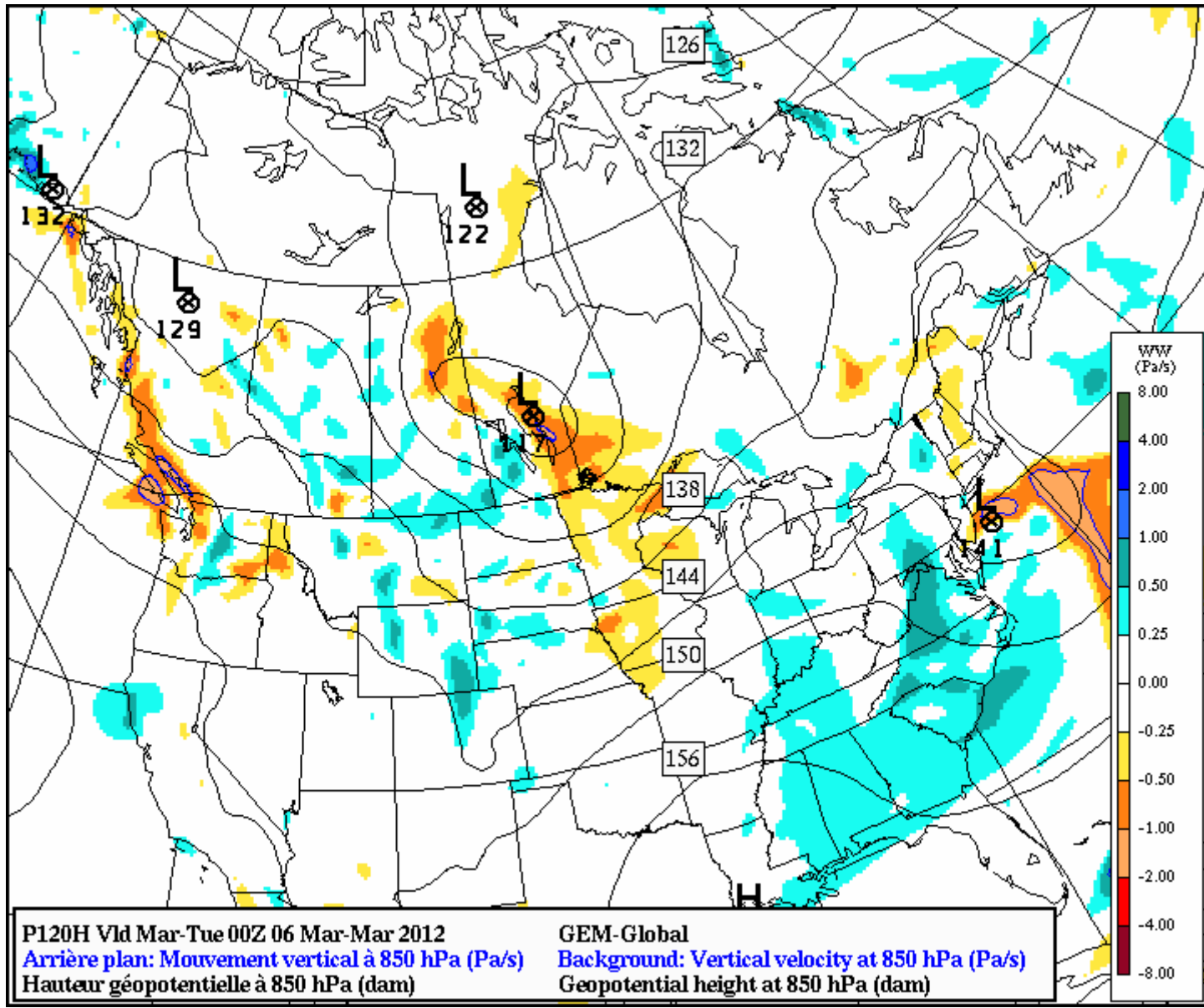


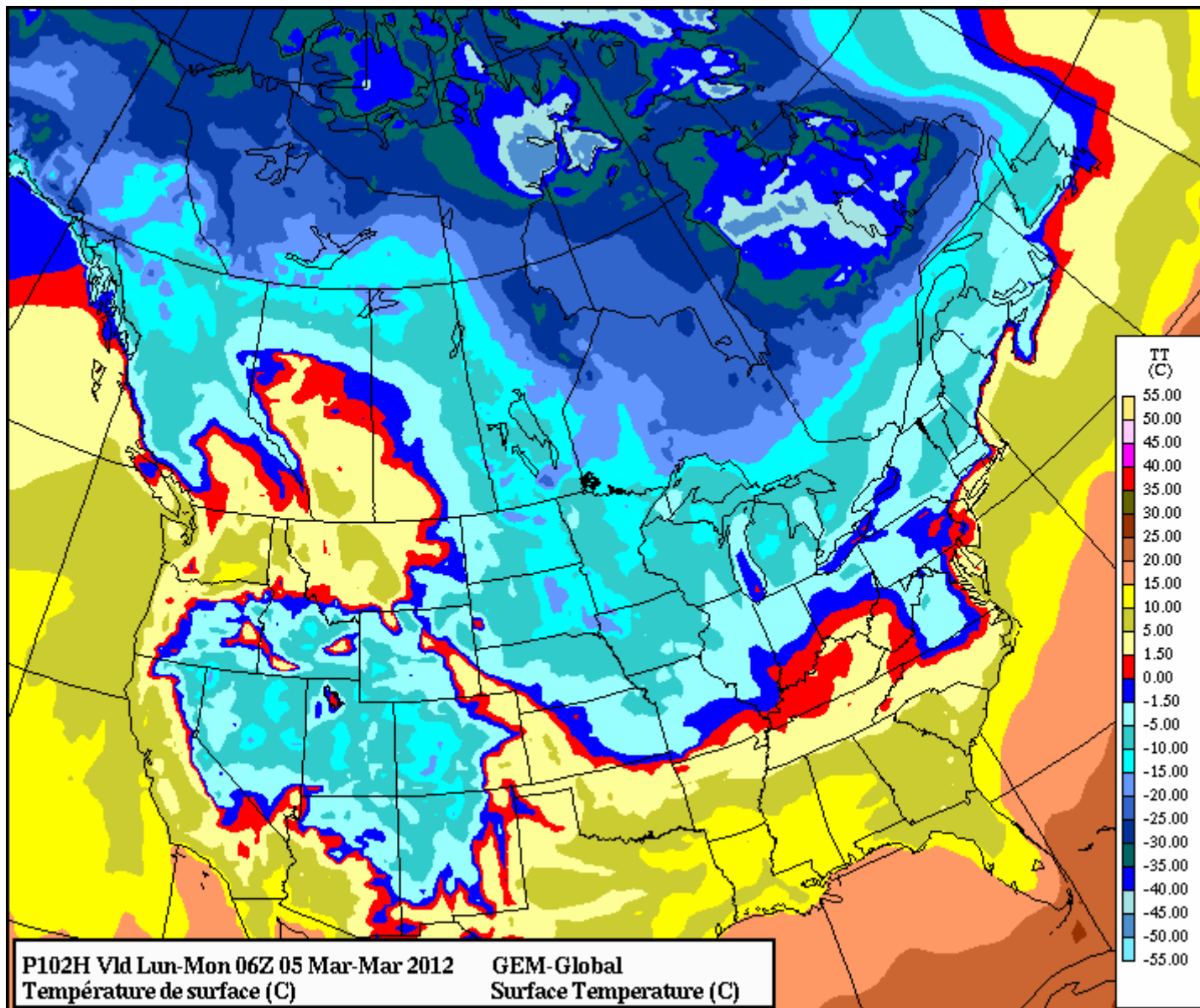
P102H Vld Lun-Mon 06Z 05 Mar-Mar 2012  
 Arrière plan: Mouvement vertical à 850 hPa (Pa/s)  
 Hauteur géopotentielle à 850 hPa (dam)

GEM-Global  
 Background: Vertical velocity at 850 hPa (Pa/s)  
 Geopotential height at 850 hPa (dam)

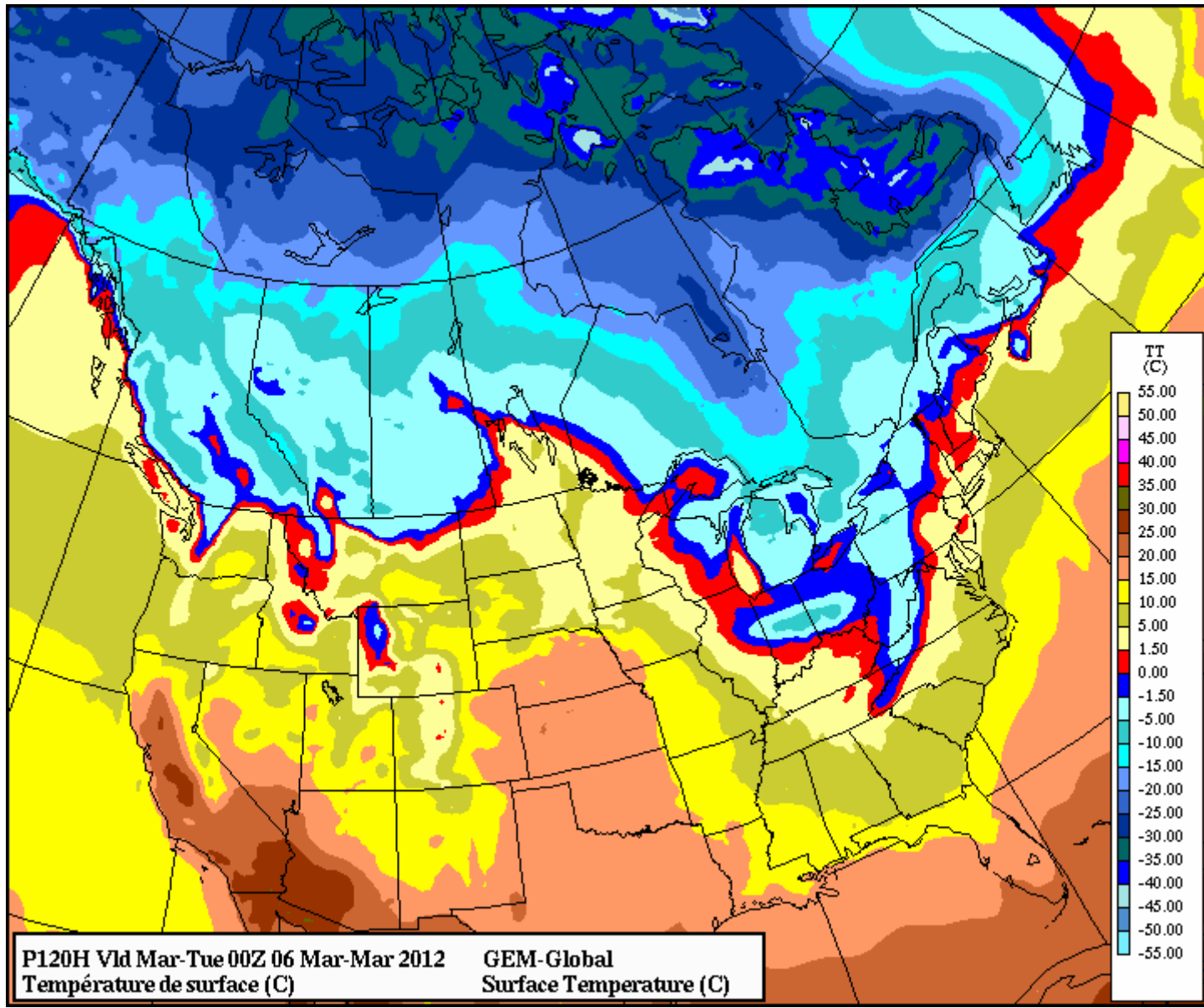


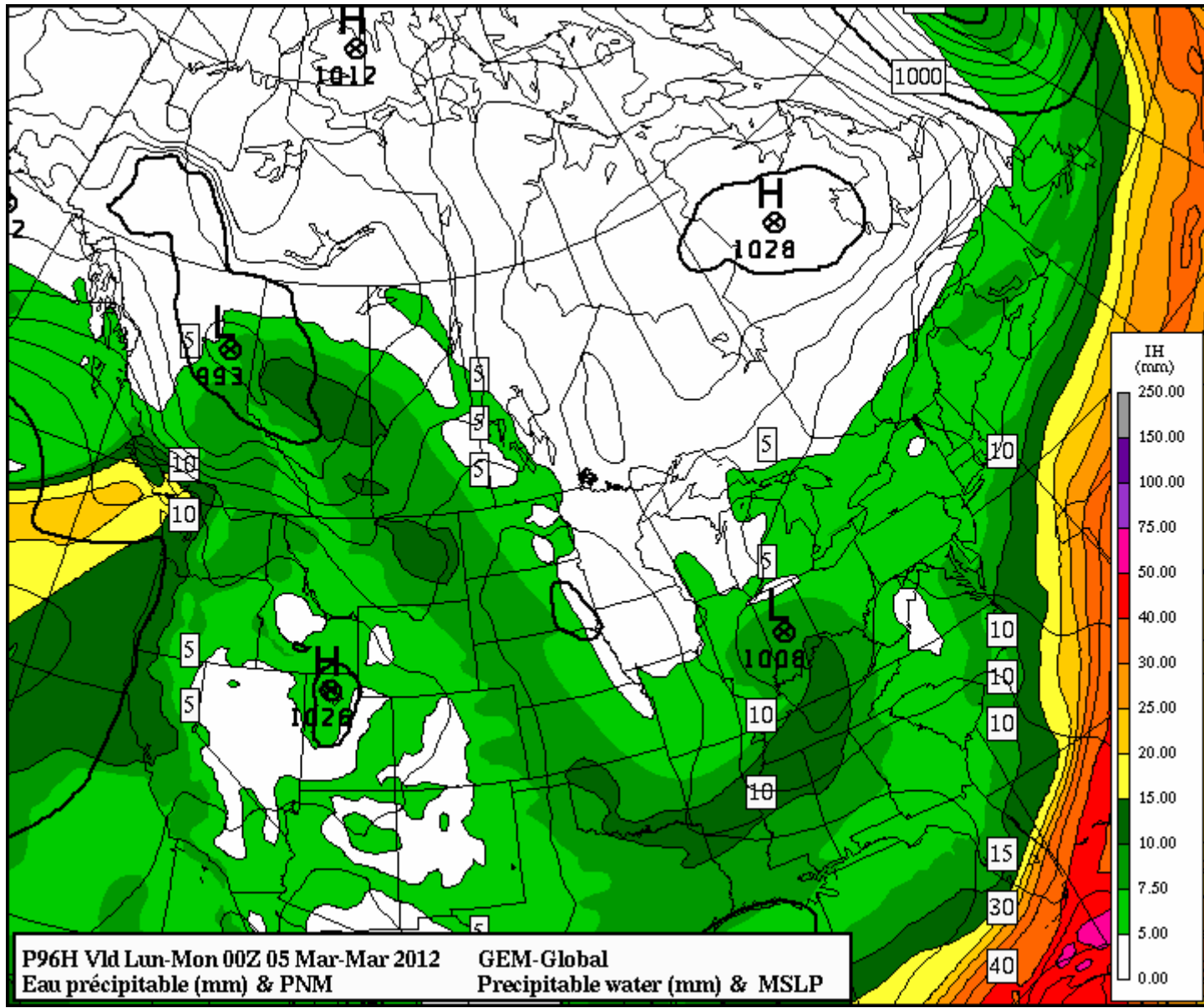




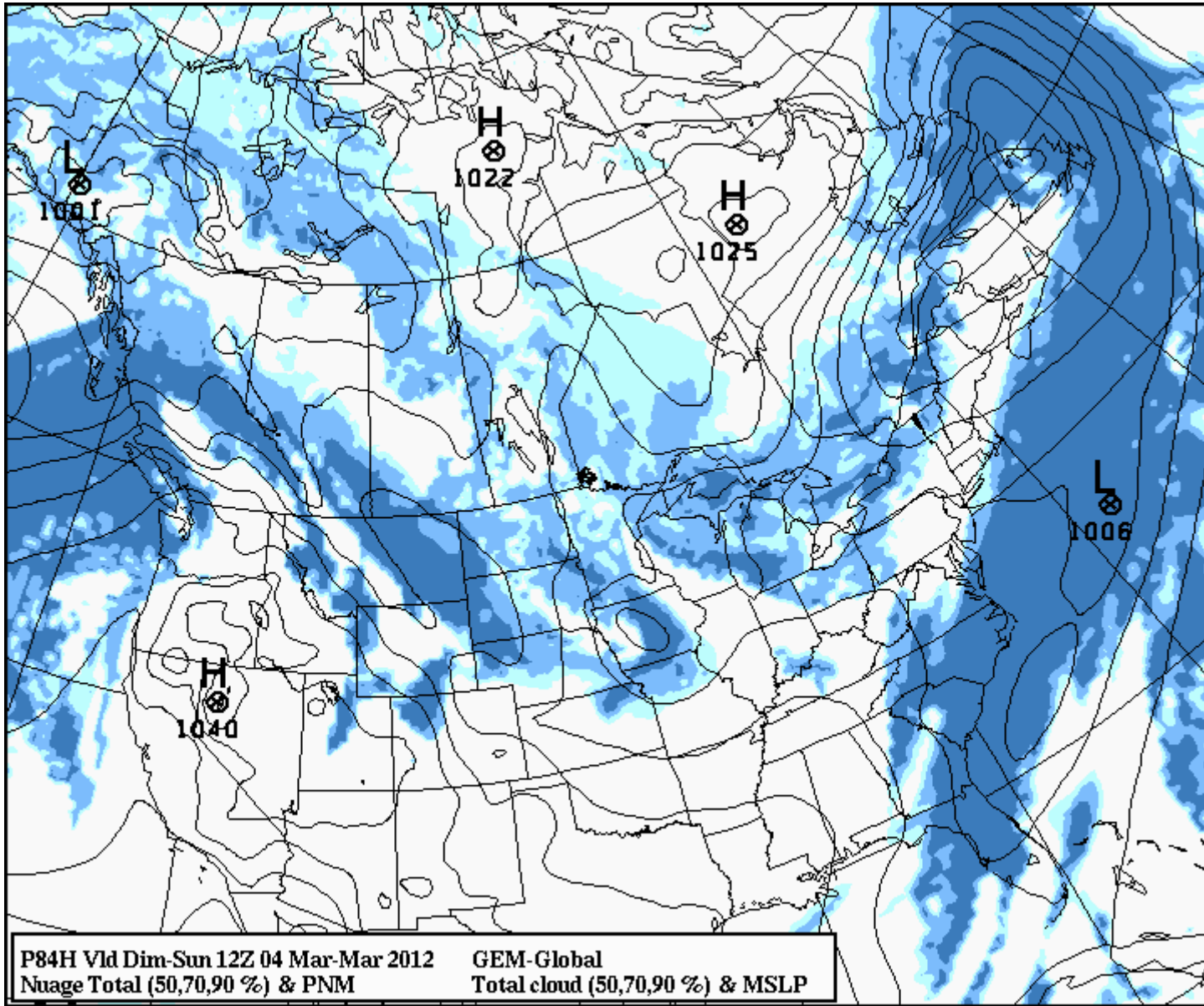


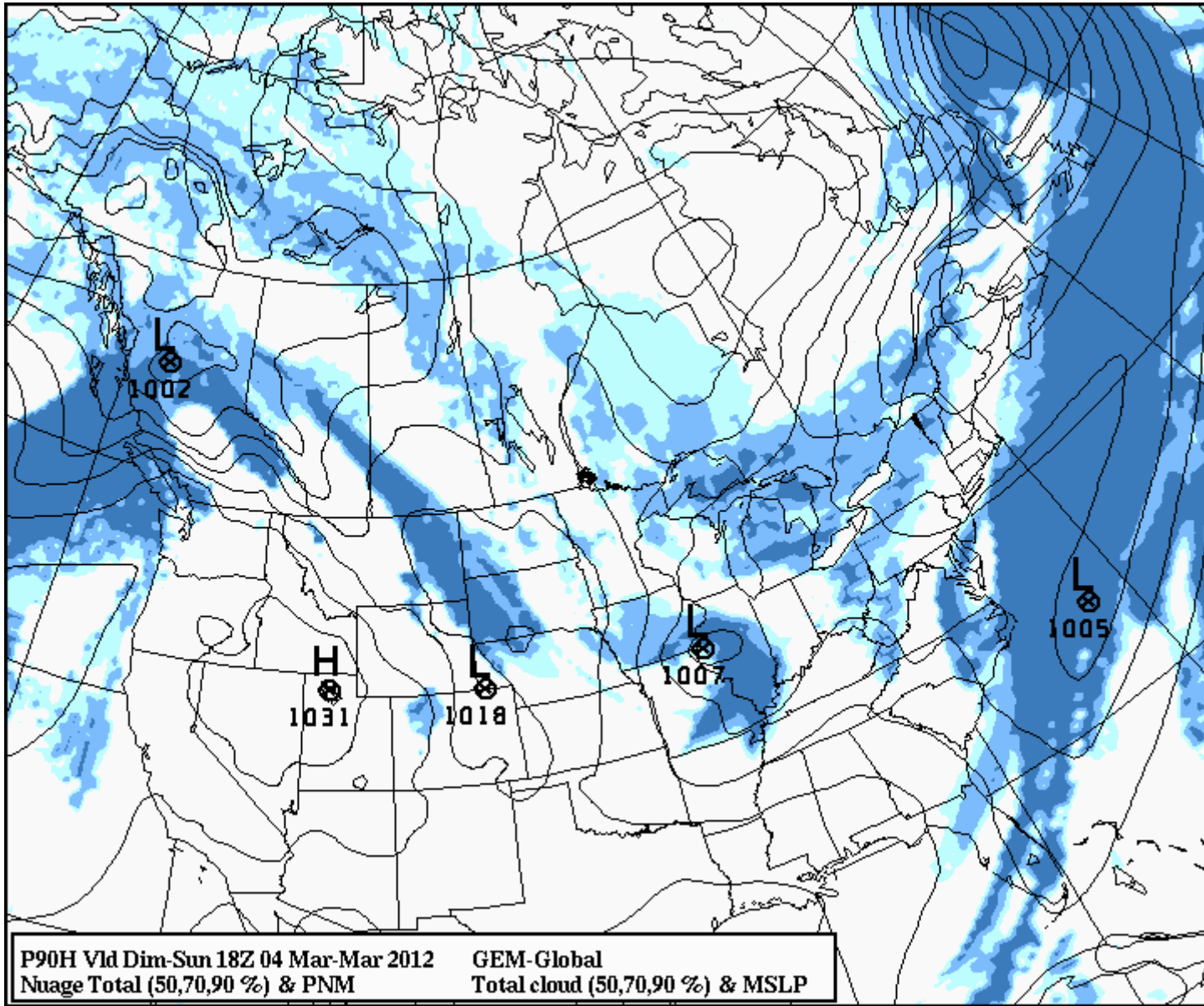


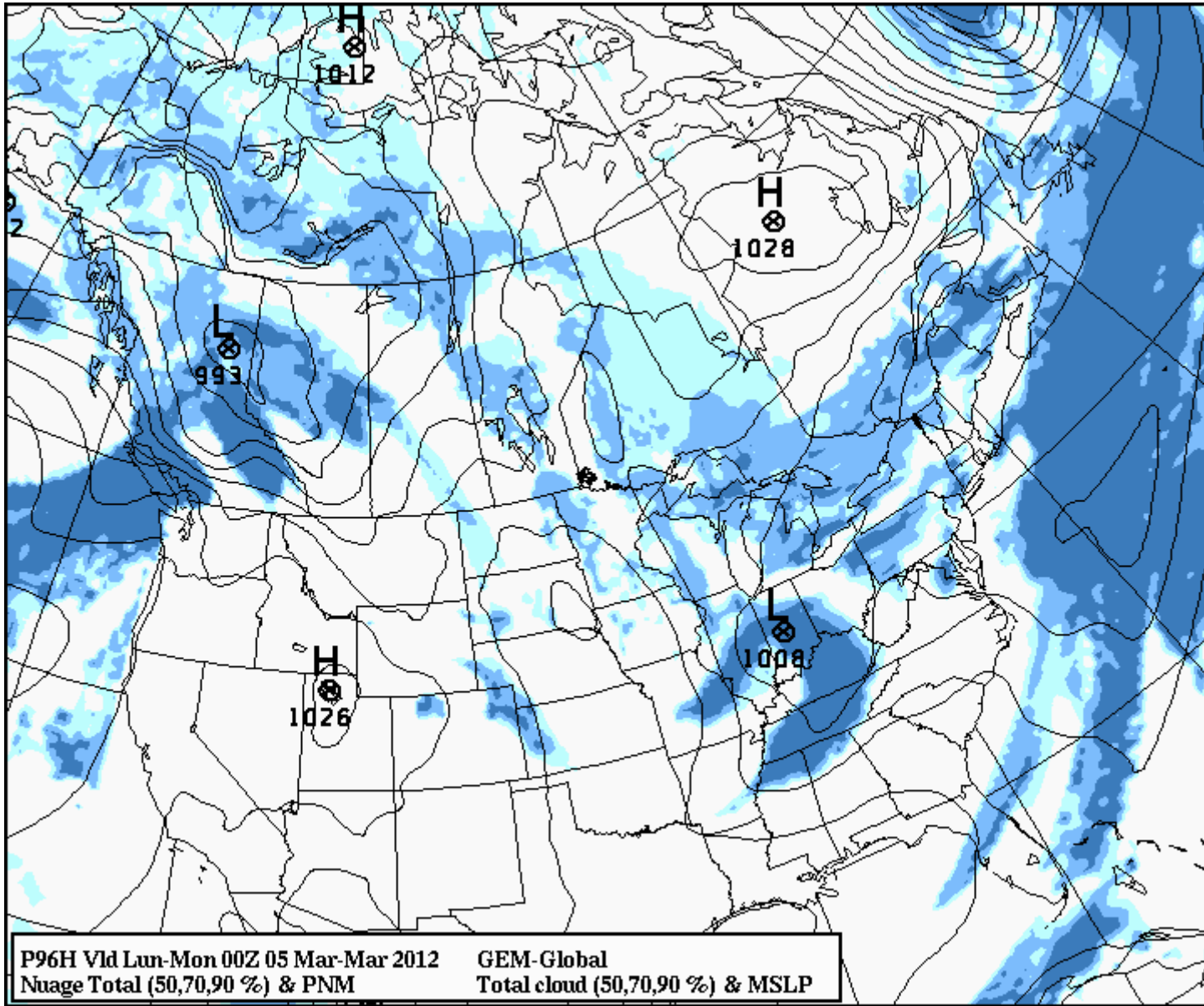


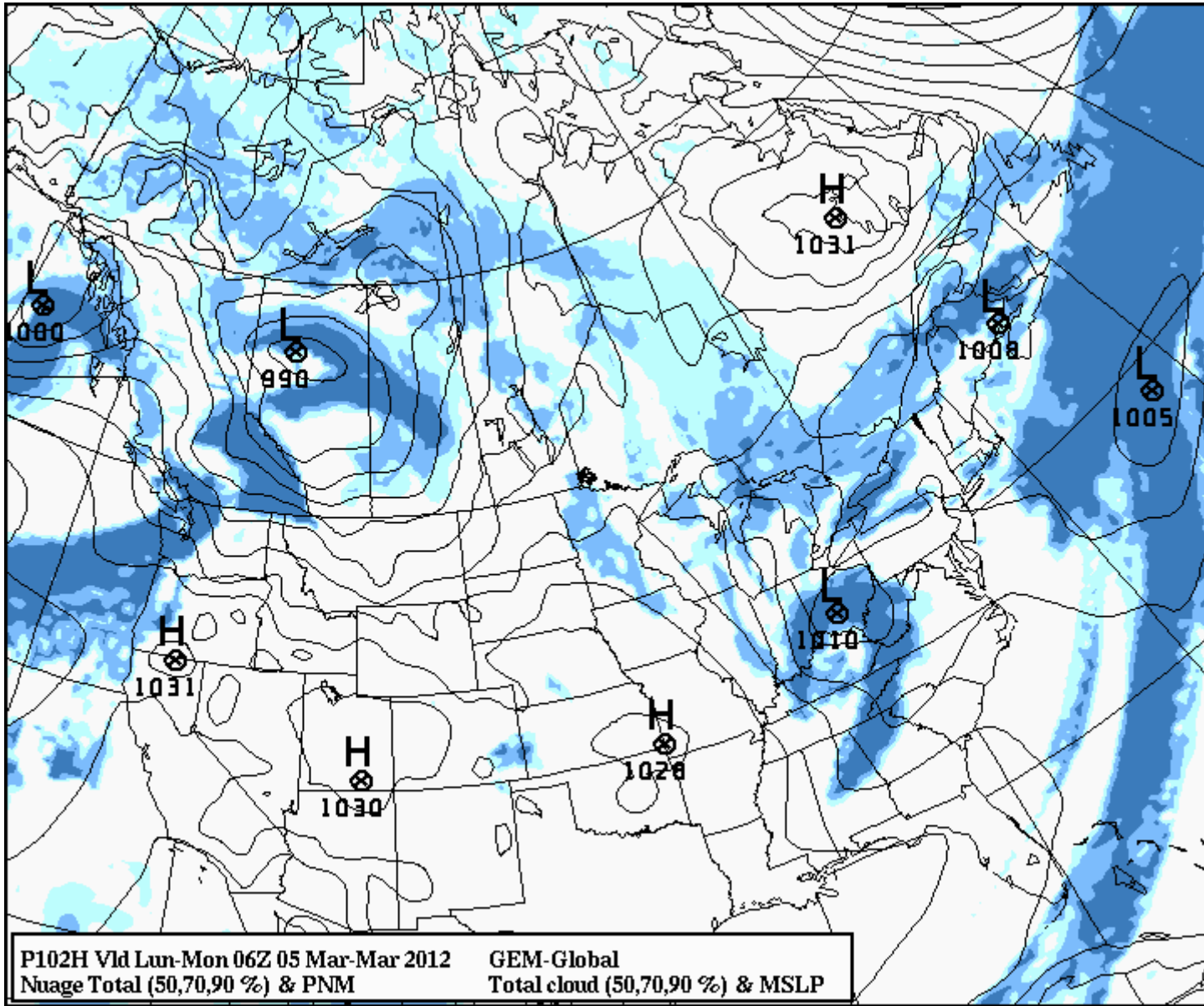




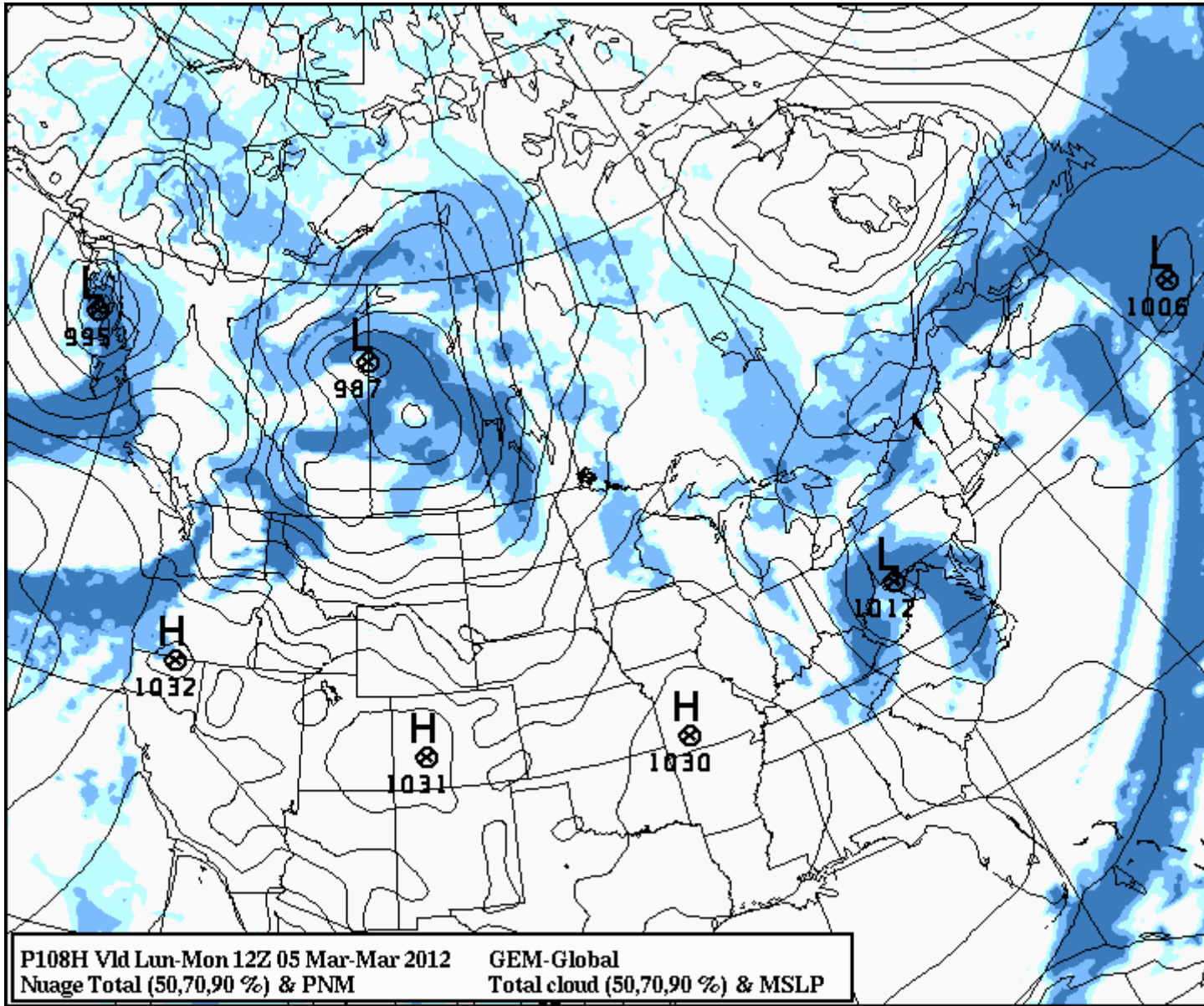


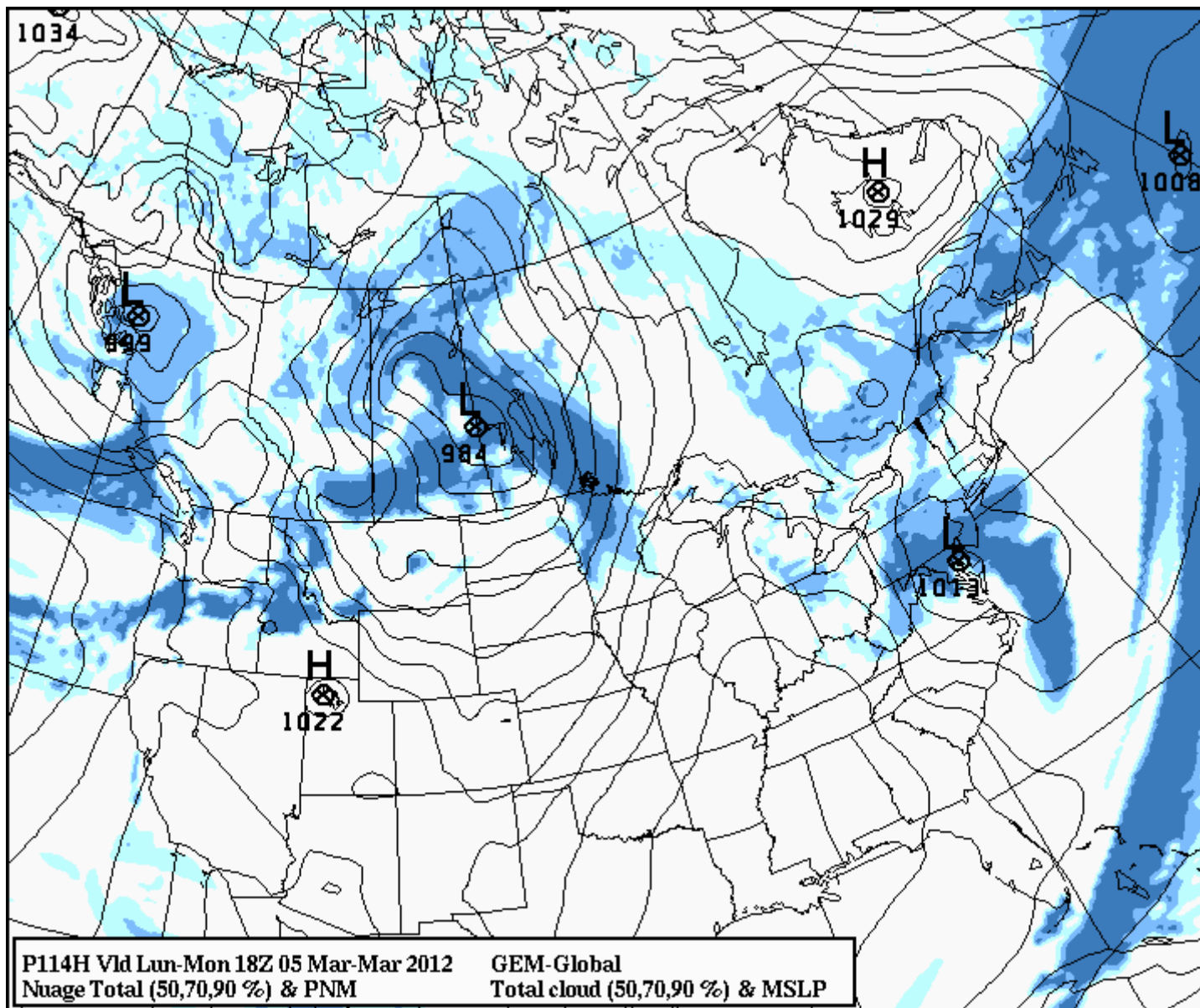


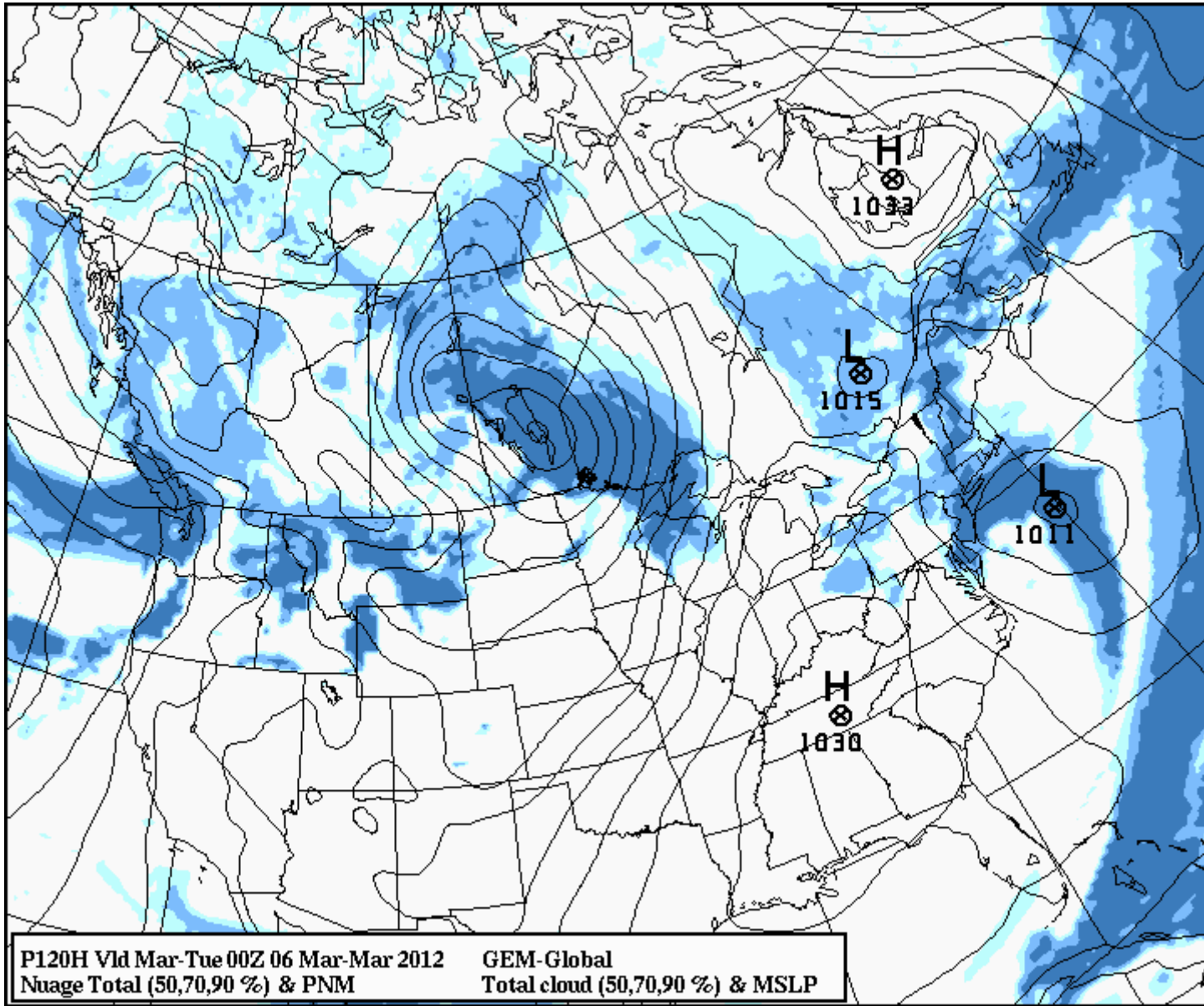


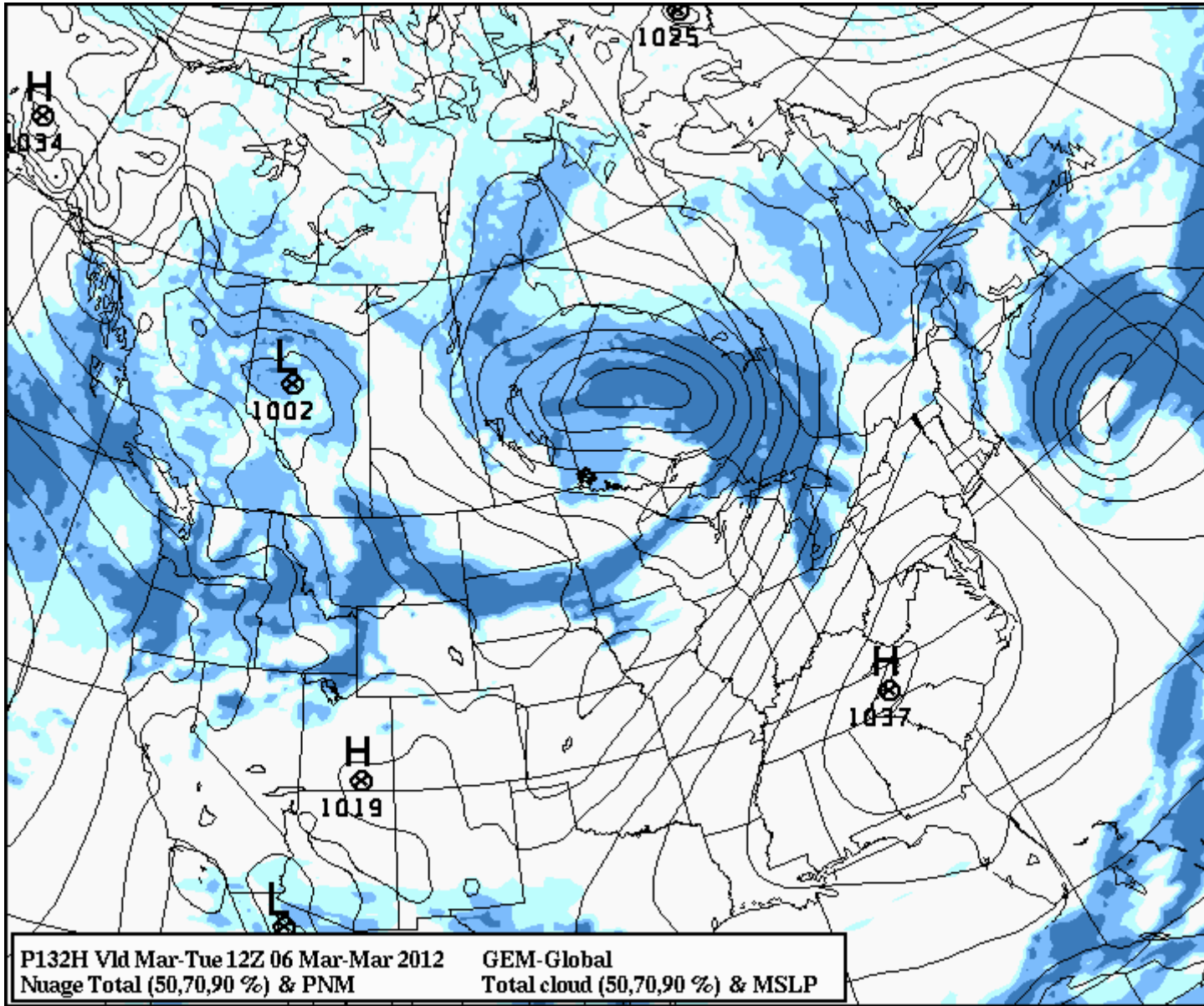




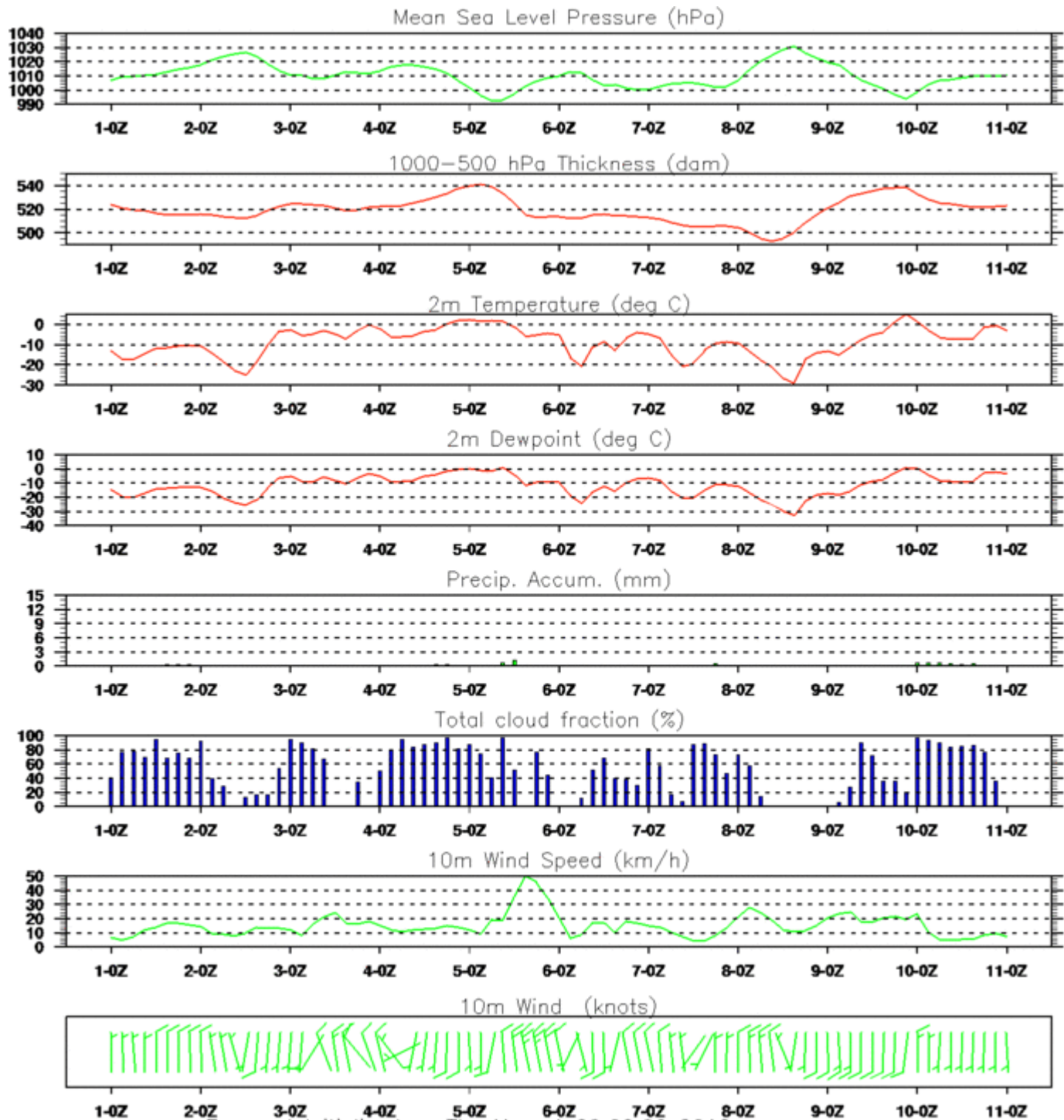




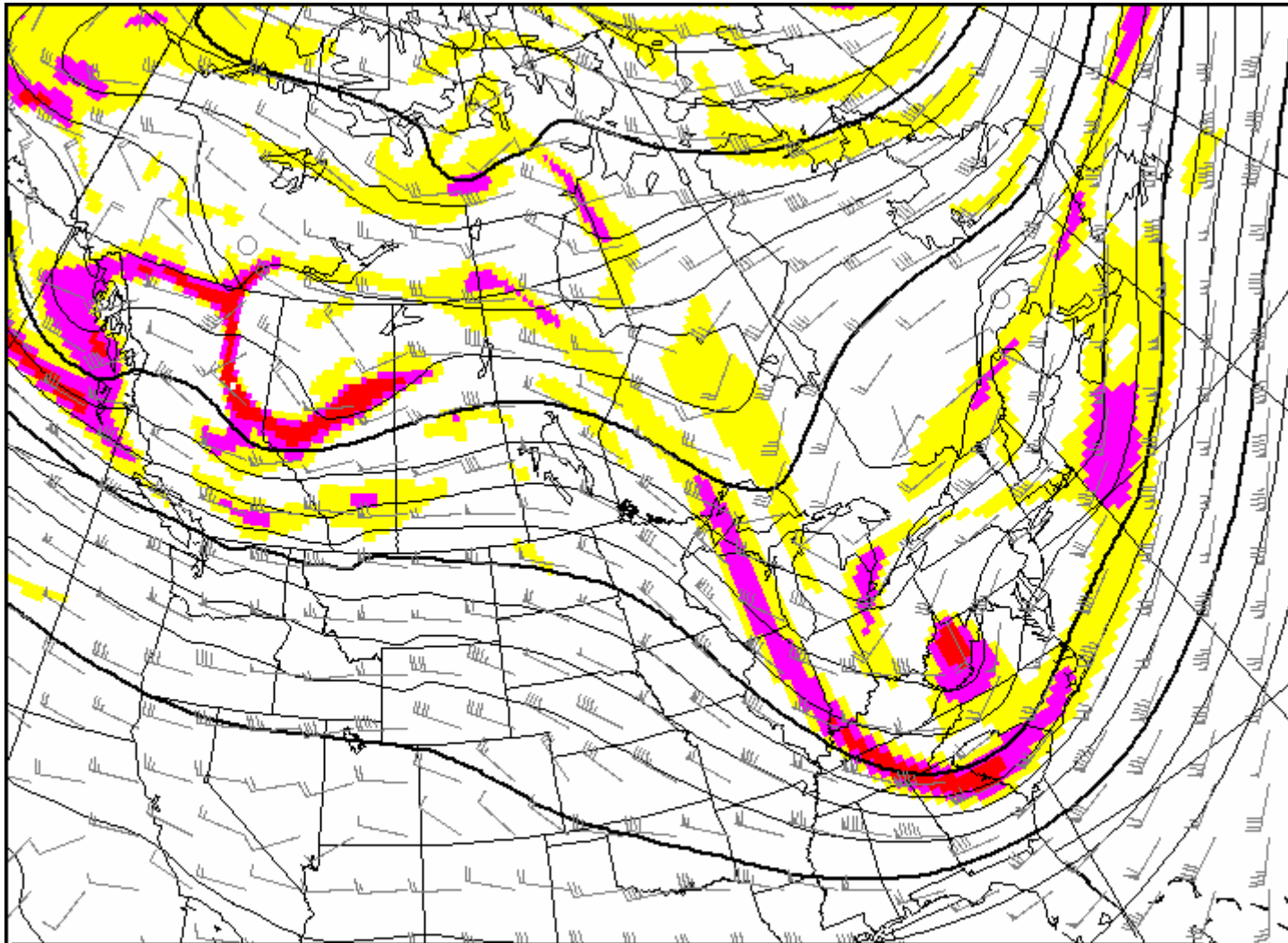






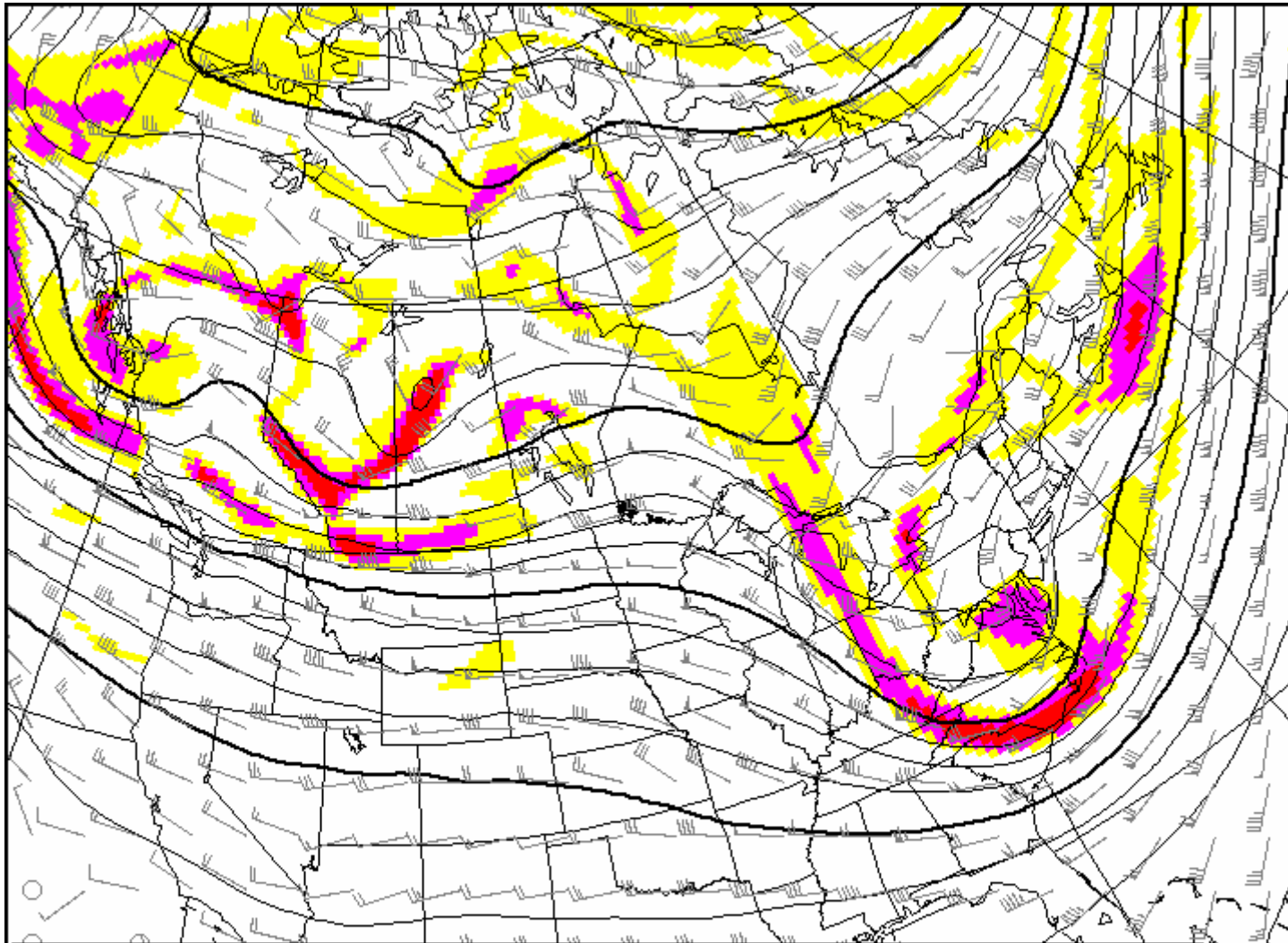


Forecast Initialized on Thu Mar 1 00:00:00 2012  
 GEMGLB 00Z for the City of Edmonton - <http://meteocentre.com/>



P108H Vld Lun-Mon 12Z 05 Mar-Mar 2012  
 Hauteur géopotentielle à 500 hPa (dam)  
 Barbules Vent à 500 hPa (nds)  
 Tourbillon Abs (/s): 16-24, 24-32, 32-50, 10E-5

GEM-Global  
 Geopotential height at 500 hPa (dam)  
 Wind Barbs at 500 hPa (kts)  
 Abs Vorticity (/s): 16-24, 24-32, 32-50, 10E-5



P114H Vld Lun-Mon 18Z 05 Mar-Mar 2012  
 Hauteur géopotentielle à 500 hPa (dam)  
 Barbules Vent à 500 hPa (nds)  
 Tourbillon Abs (/s): 16-24, 24-32, 32-50, 10E-5

GEM-Global  
 Geopotential height at 500 hPa (dam)  
 Wind Barbs at 500 hPa (kts)  
 Abs Vorticity (/s): 16-24, 24-32, 32-50, 10E-5