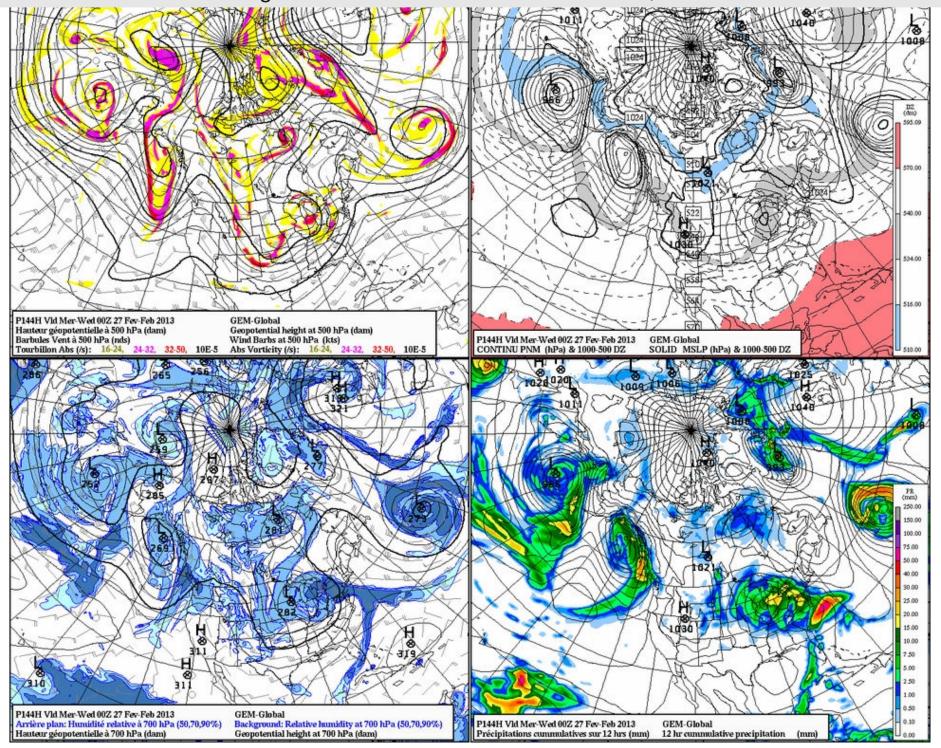
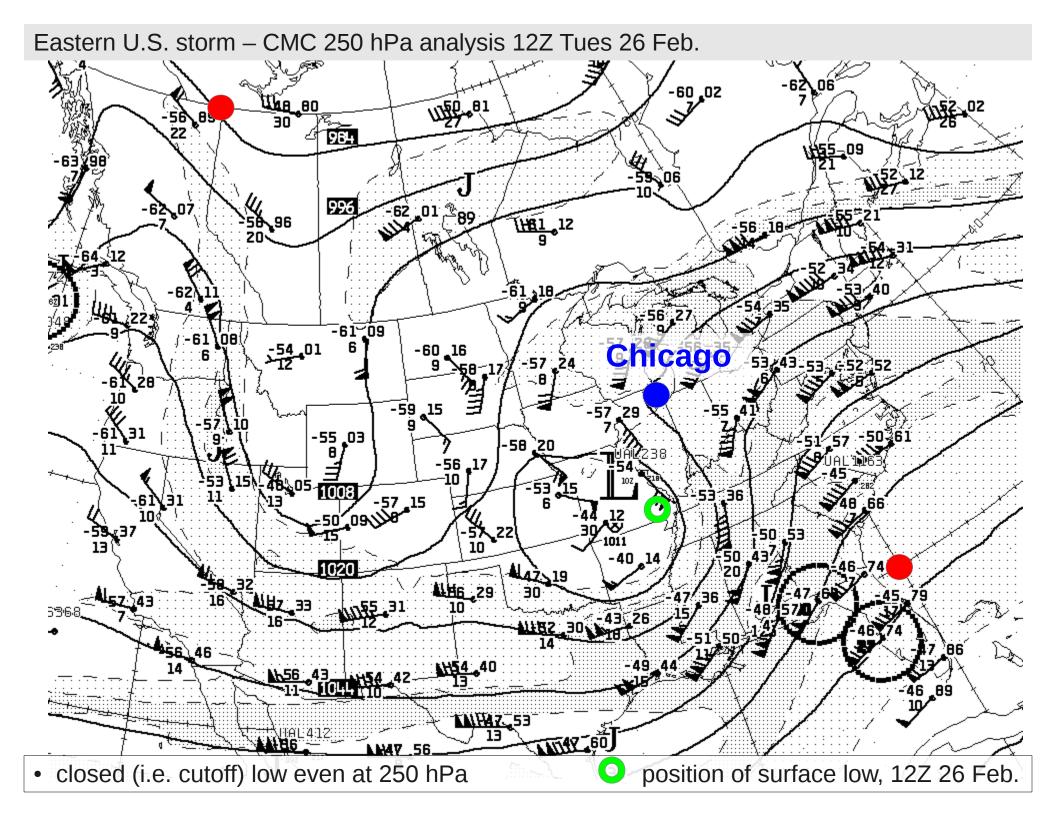


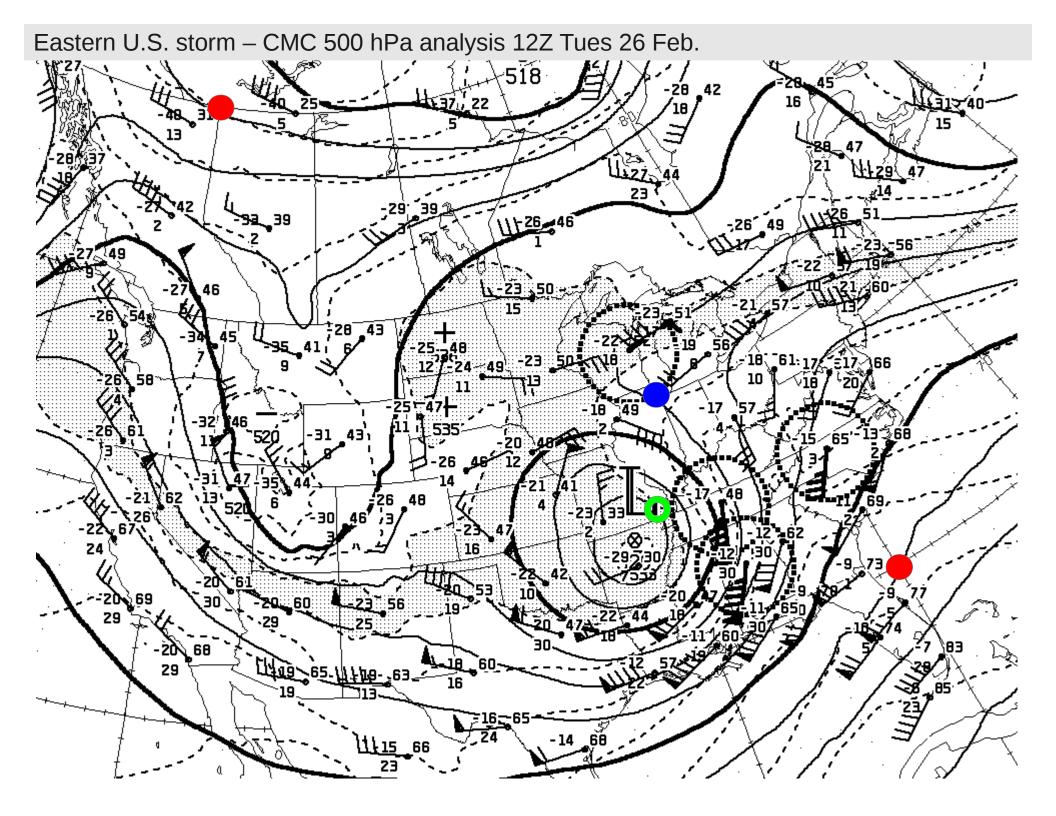


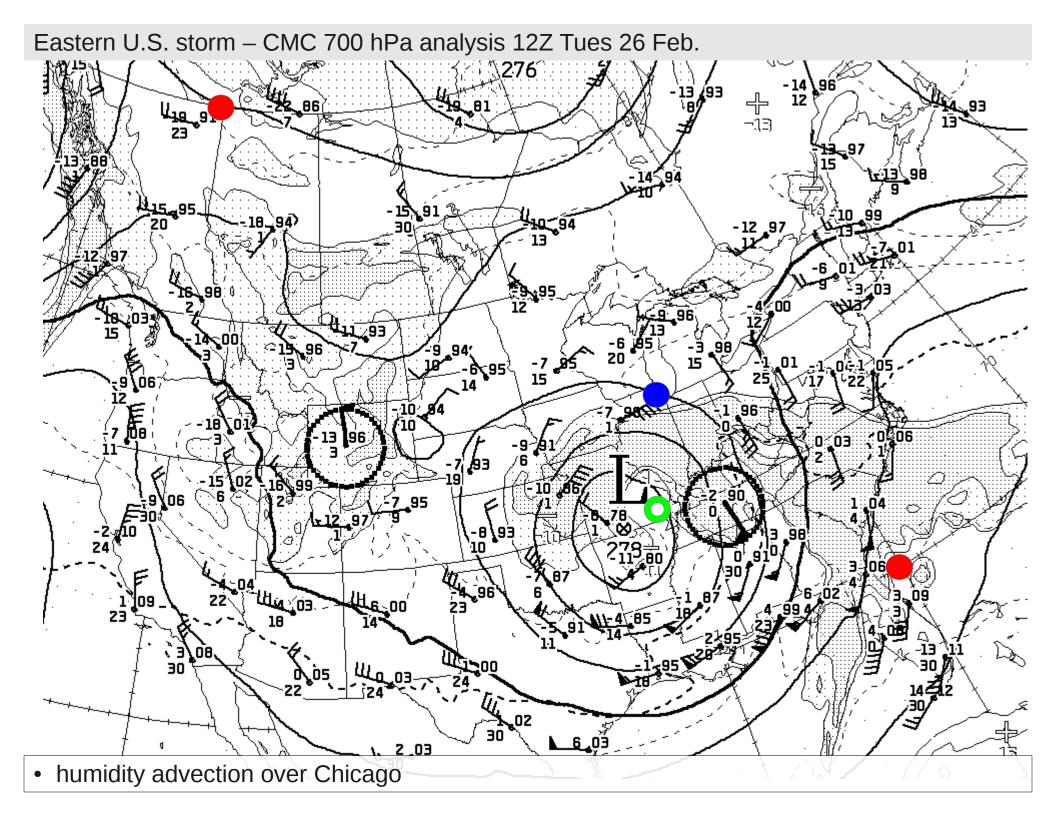
- brief look at Tuesday's storm in eastern U.S.
- follow-up on the east coast storm(s) fcst by GFS (at 14 day range) for ~ 12 March
- present situation in western Canada
- forecast through Sunday for C. Alberta

Eastern U.S. storm – GEM-glbl 144-h fcst init. 00Z Thurs 21 Feb, valid 00Z Wed 27 Feb





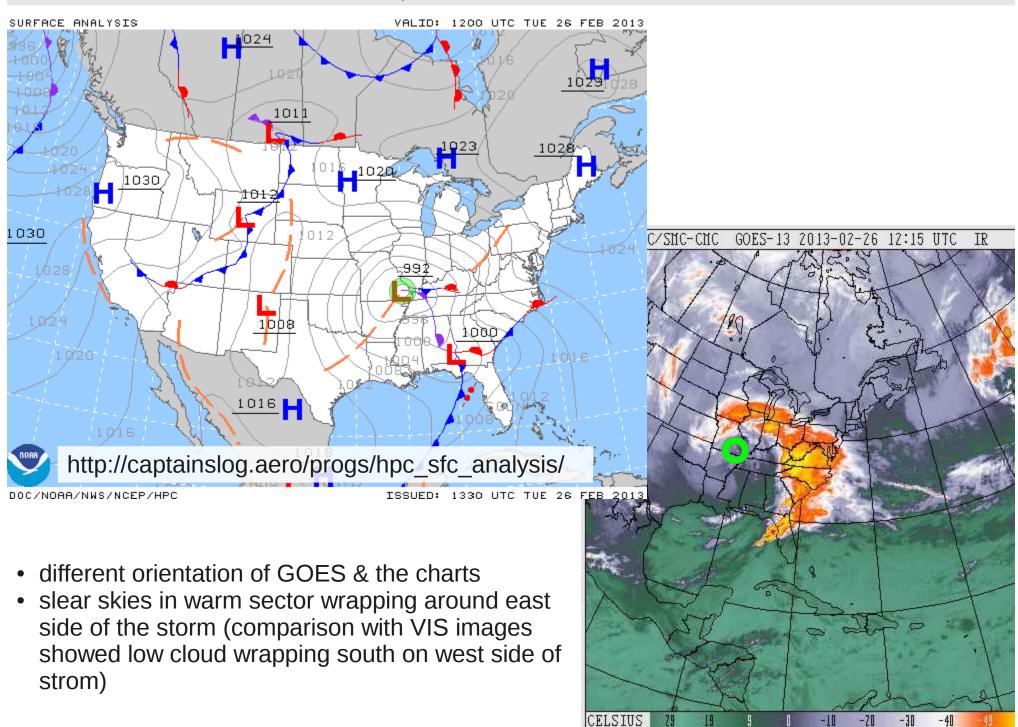


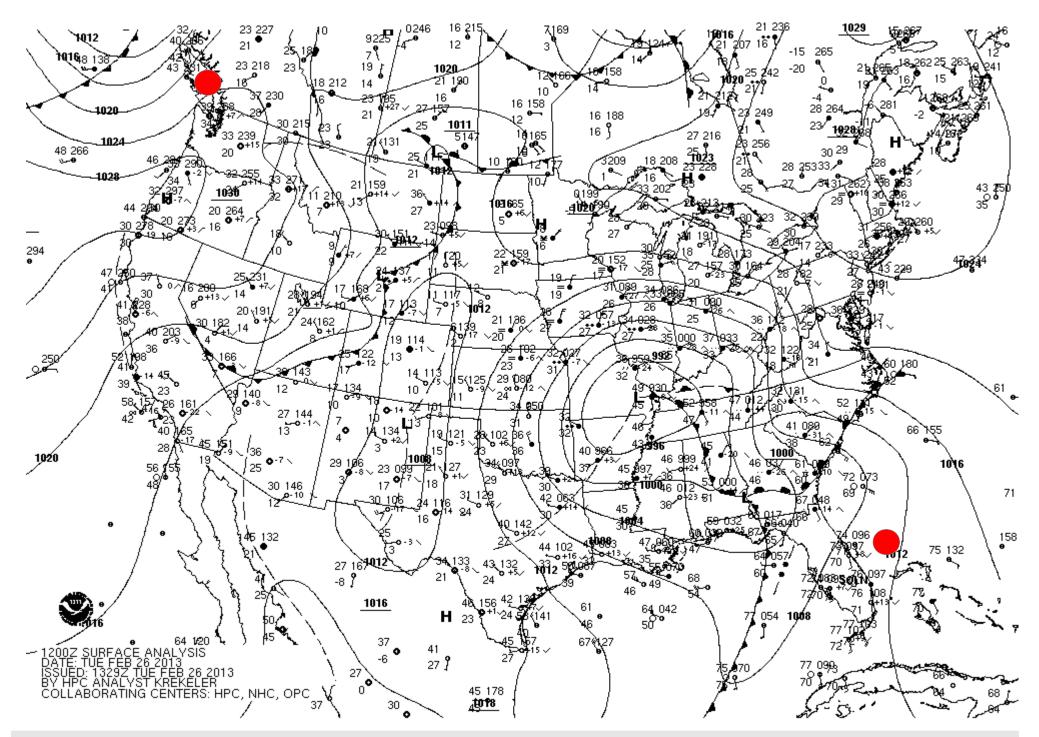


# Eastern U.S. storm – CMC 850 hPa analysis 12Z Tues 26 Feb. .8 46 7 **146** -10 10 ້,⁄<sup>ຂ</sup>§ √1**26** <u>`-20 \</u>

- well defined cold and warm sectors, albeit not particularly strong grad-T
- extremely strong 850 hPa winds
- warm advection over Chicago

#### Eastern U.S. storm – NCEP sfc analysis & GOES east IR at 12Z Tues 26 Feb. 2013

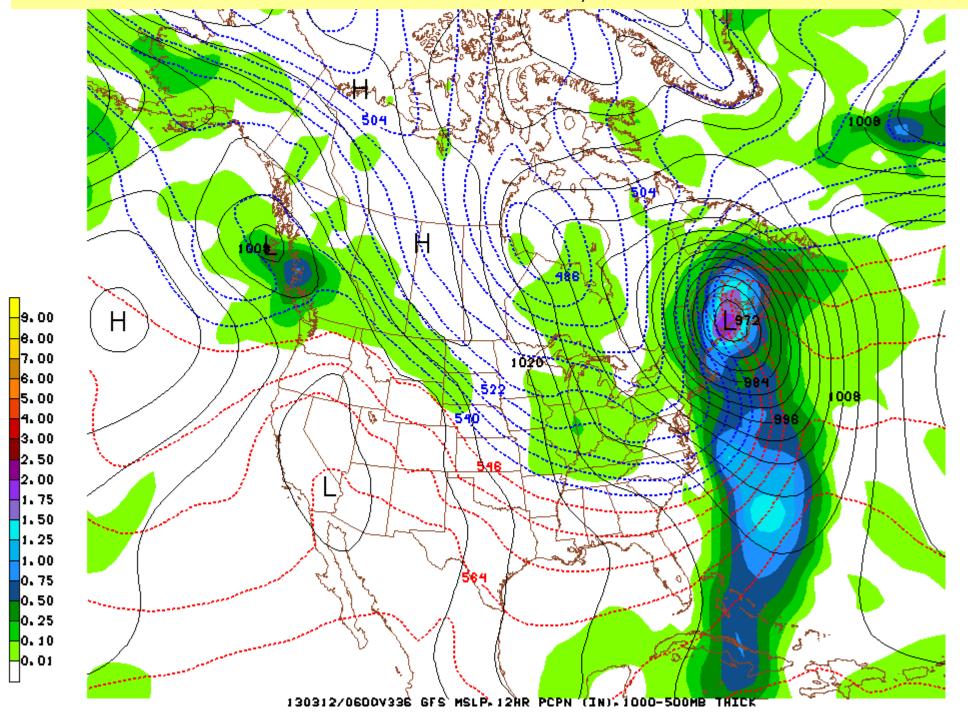




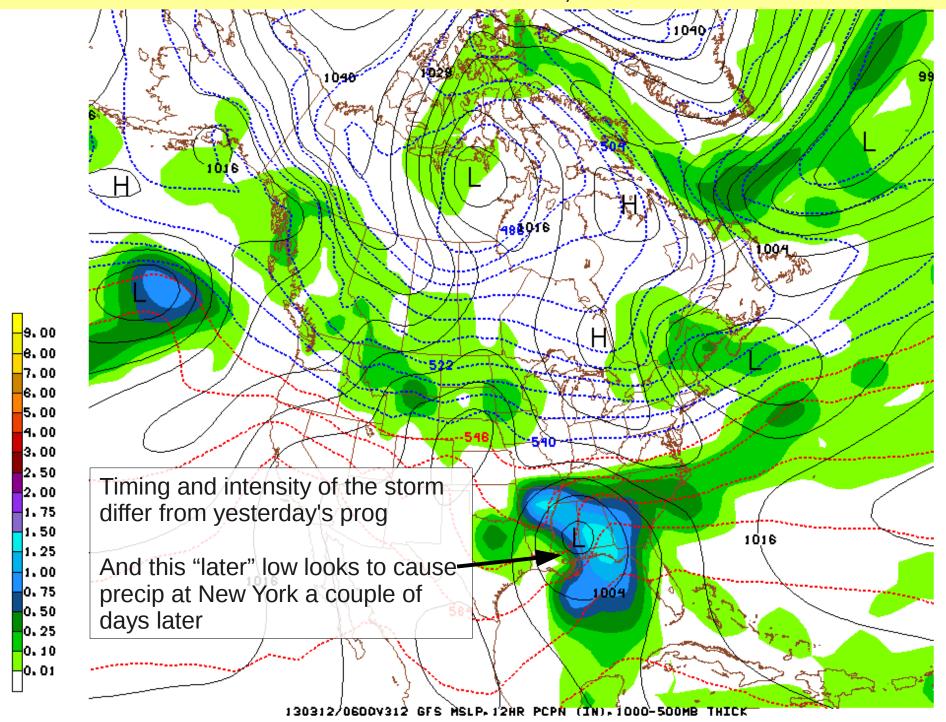
NCEP sfc analysis 12Z Tues 26 Feb.

Now a follow-up regarding the east coast storms GFS indicates at ~ two week range

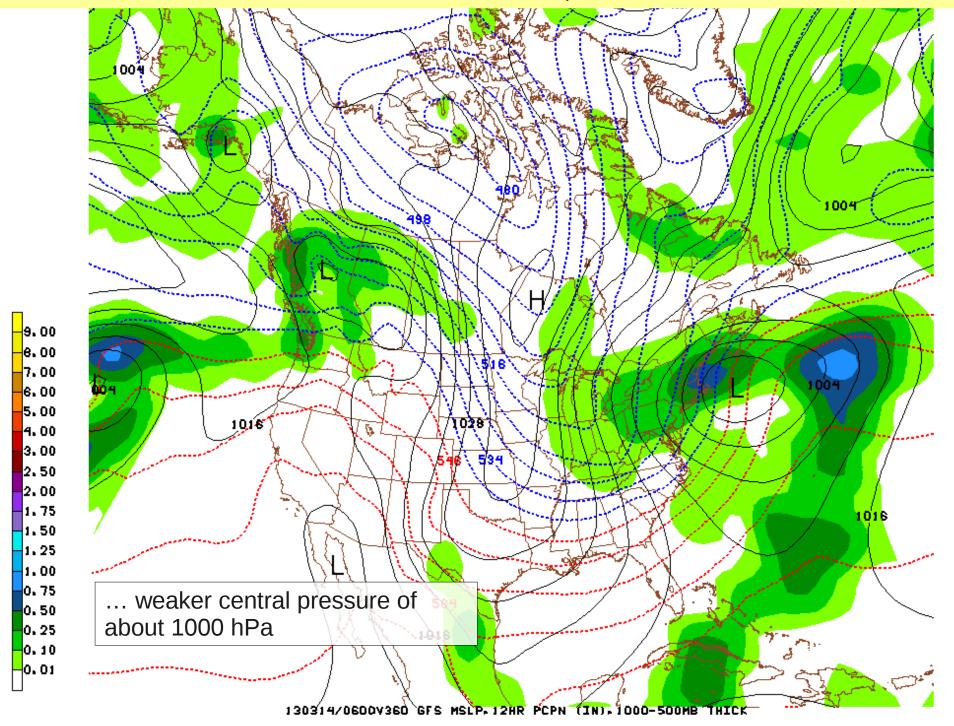
## GFS 336-h fcst init. 06Z Tues 26 March, valid 06Z Tues 12 March



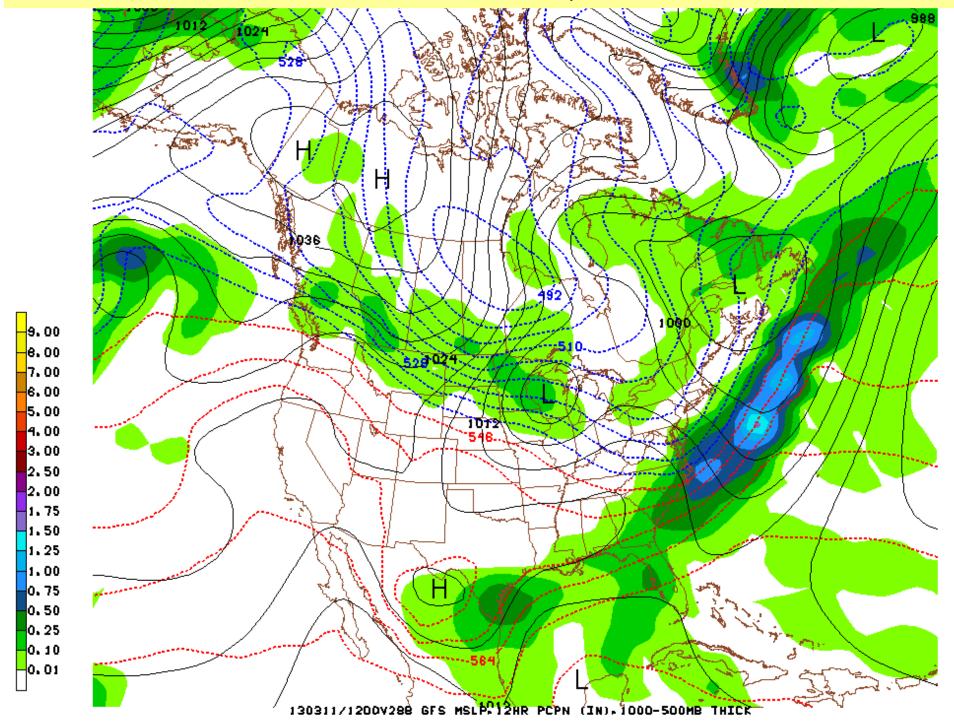
#### GFS 312-h fcst init. 06Z Wed 27 March, valid 06Z Tues 12 March



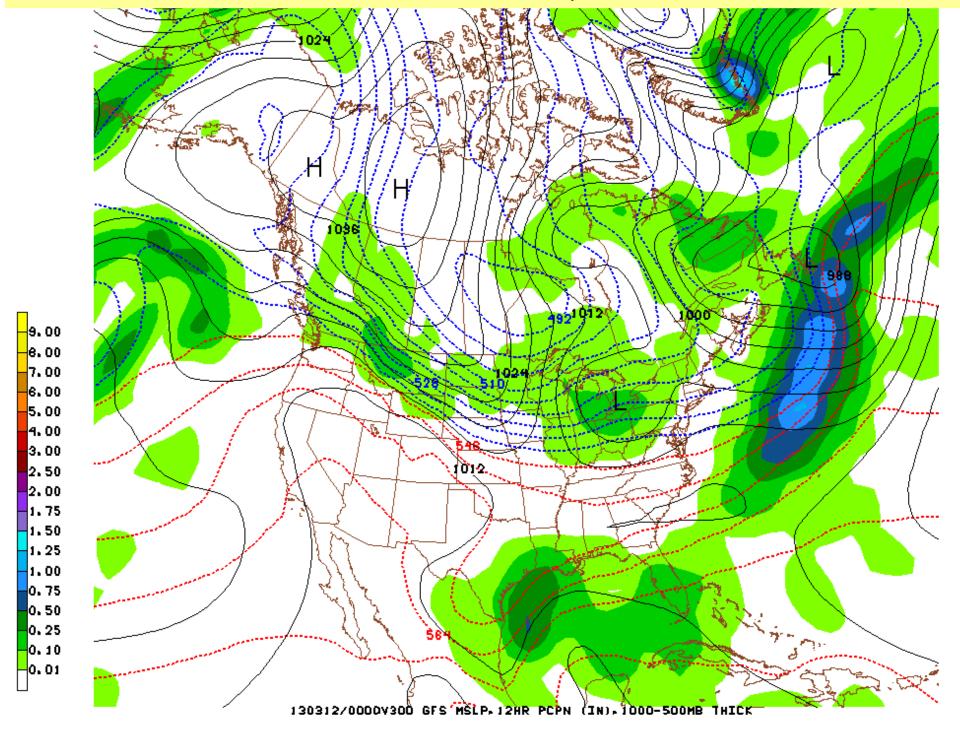
# GFS 360-h fcst init. 06Z Wed 27 March, valid 06Z Thurs 14 March



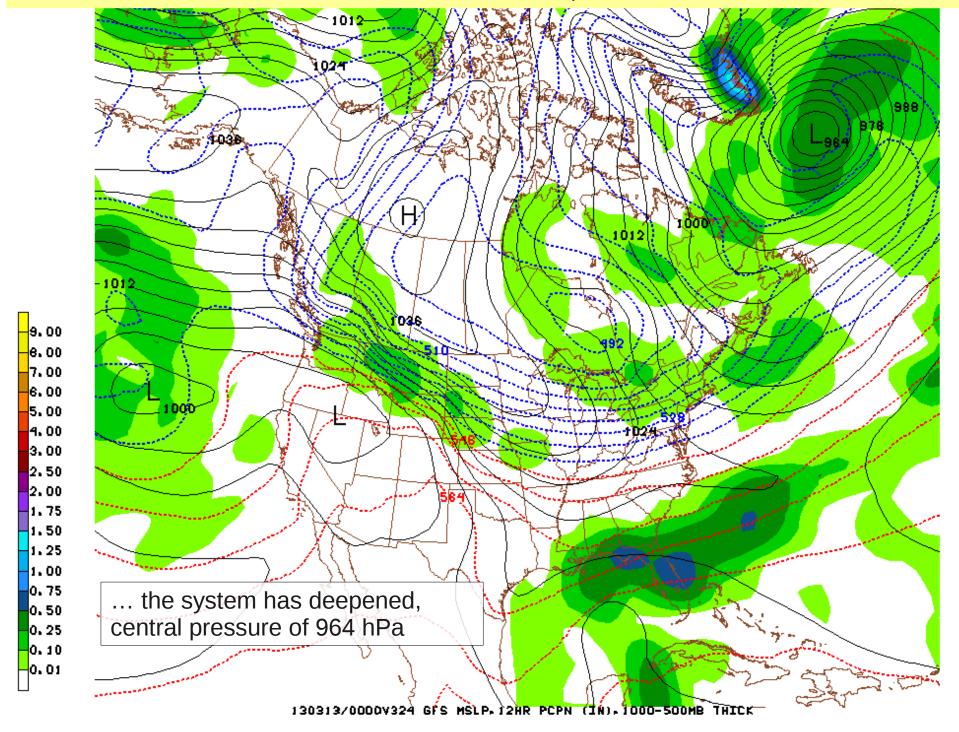
## GFS 288-h fcst init. 12Z Wed 27 March, valid 12Z Mon 11 March



## GFS 300-h fcst init. 12Z Wed 27 March, valid 00Z Tues 12 March



## GFS 324-h fcst init. 12Z Wed 27 March, valid 00Z Wed 13 March



#### Now skipping to present and imminent weather in Alberta...

## What are the professionals noting?

SIGNIFICANT WEATHER DISCUSSION ISSUED BY THE PRAIRIE AND ARCTIC STORM PREDICTION CENTRE OF ENVIRONMENT CANADA AT 7:00 AM CST THURSDAY FEBRUARY 28 2013...

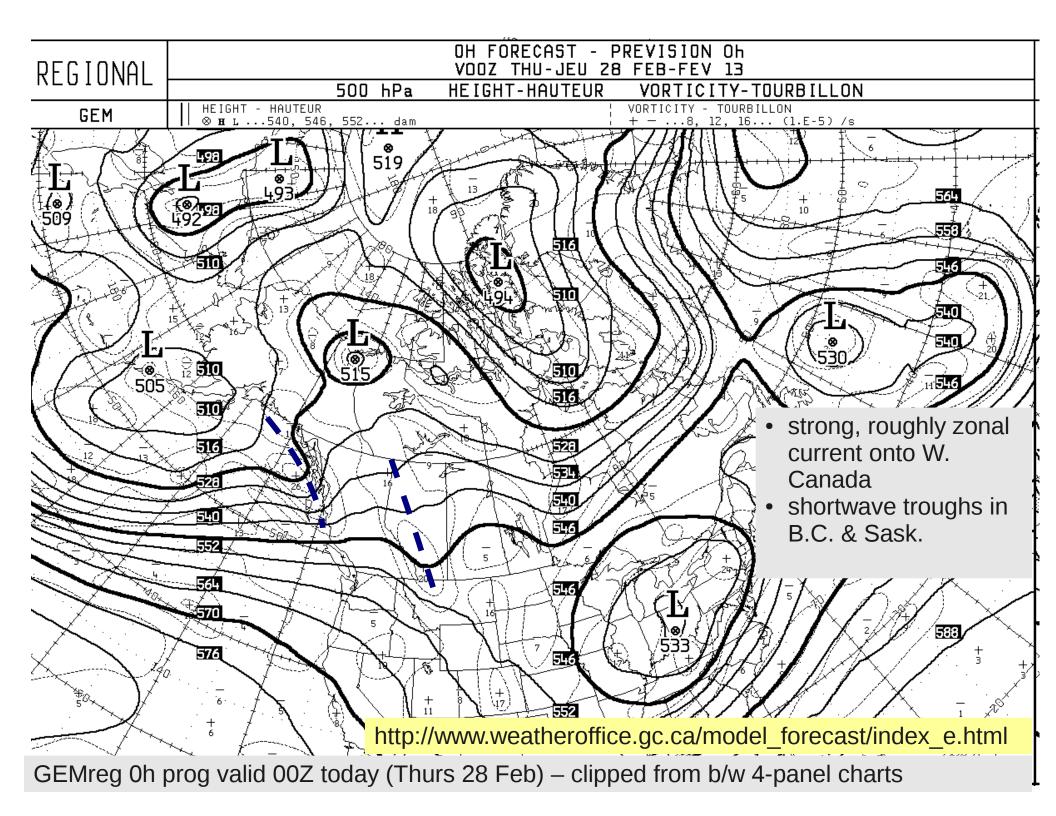
**DISCUSSION... PRAIRIES...** 

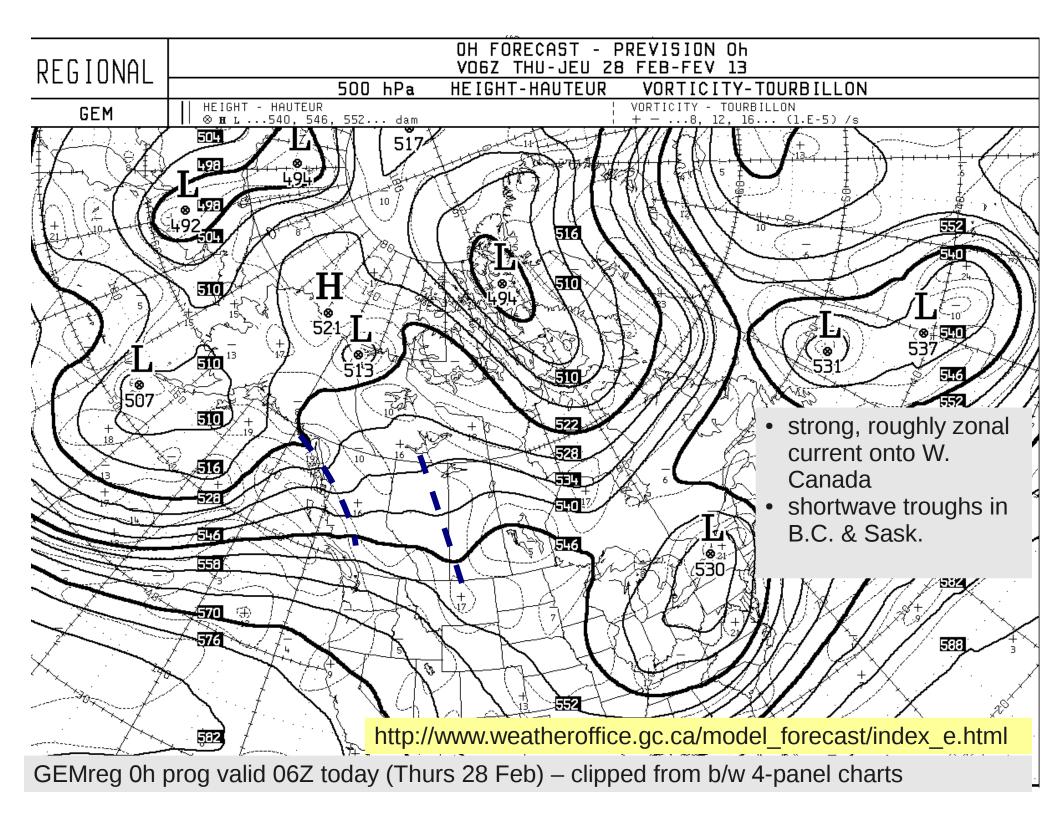
AREAS OF FG THIS MORNING IN ERN AB OTWZ QUIET IN THE PRAIRIES. TNGT STRG LEE TROF DVLPS ALG FTHLS PRODUCING STRG GAP WINDS. WIND GUSTS MAY APPROACH 100 KM/H AND WILL FURTHER ASSESS IF WIND WARNINGS ARE REQD THIS AFTN.

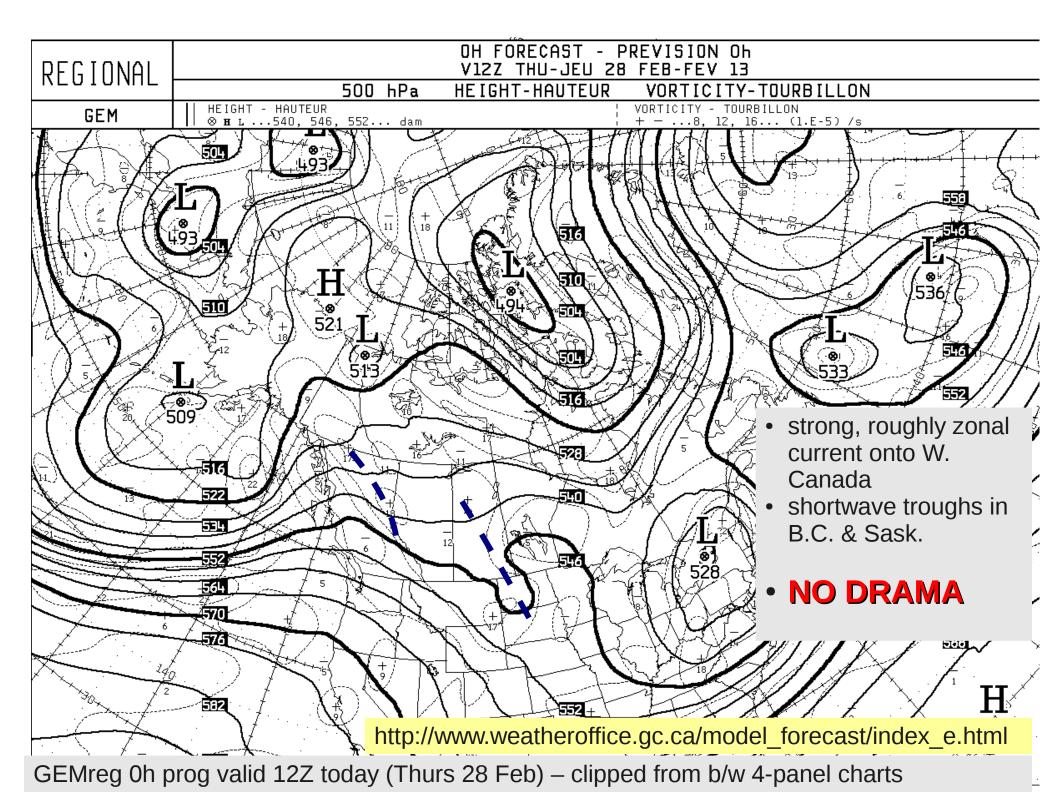
Lackmann p308 procedure: set the planetary, synoptic & mesoscale context

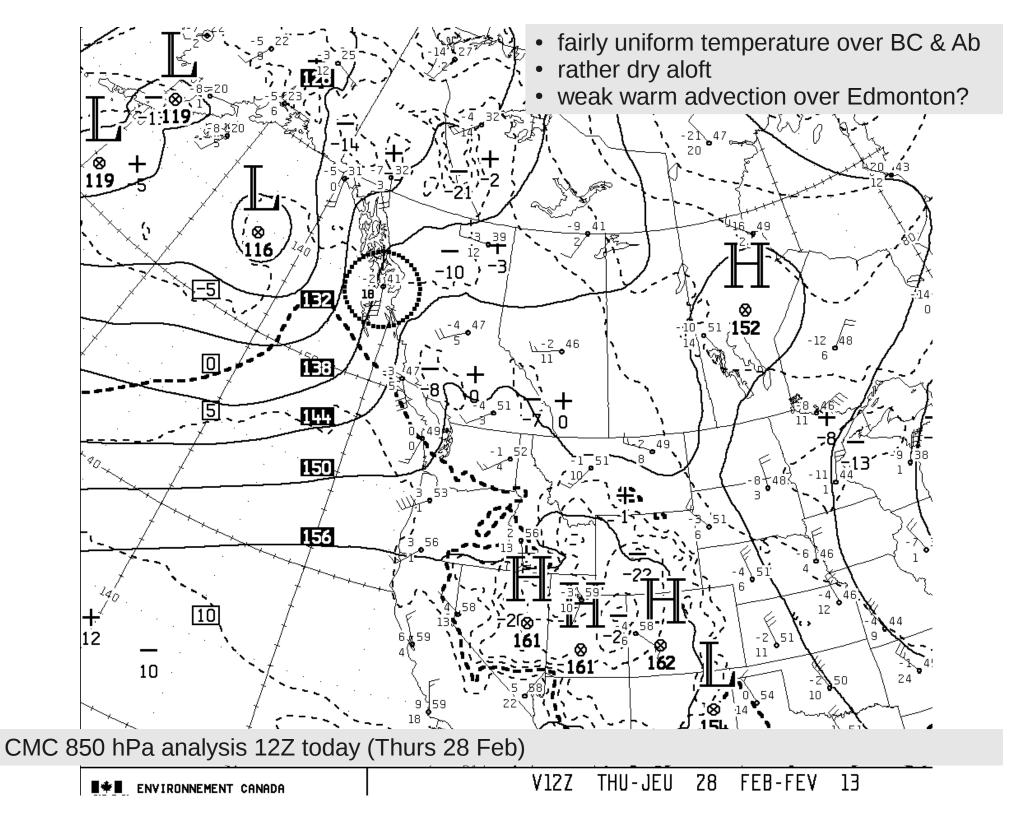
Characteristics of the planetary-scale pattern?

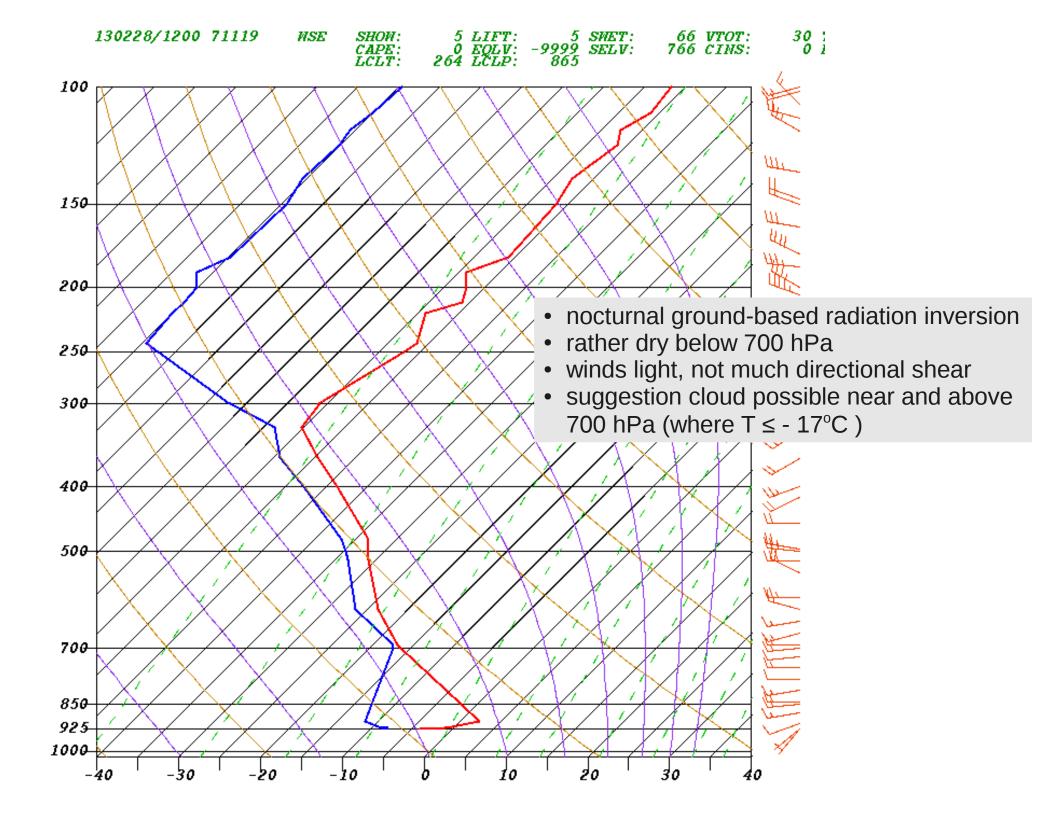
The synoptic-scale pattern?

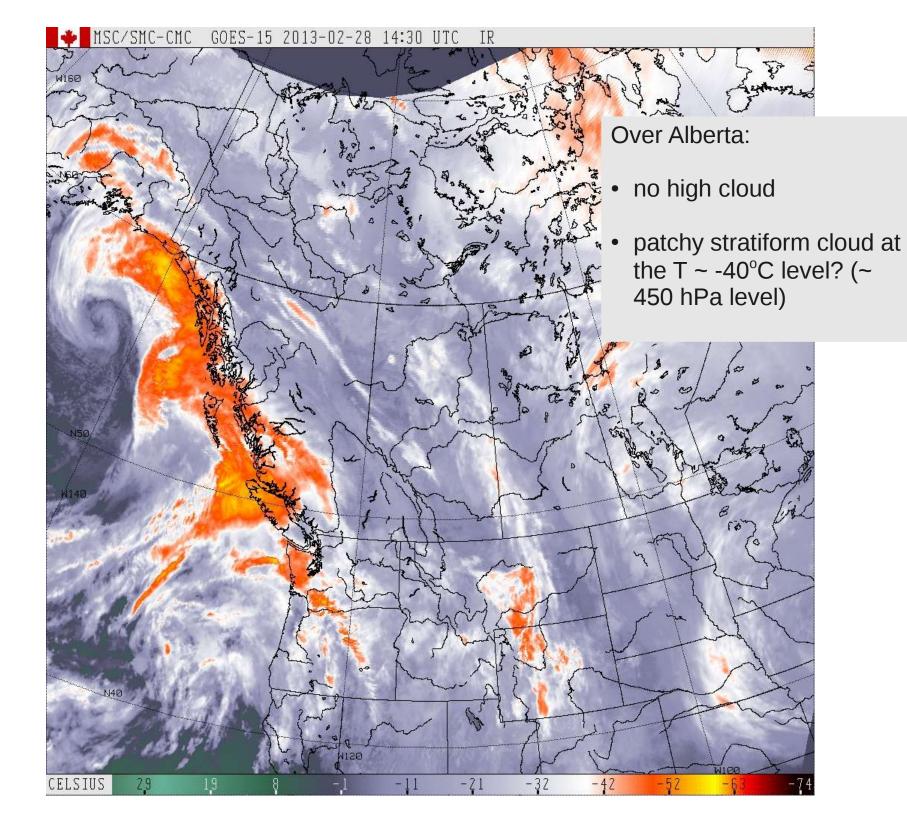


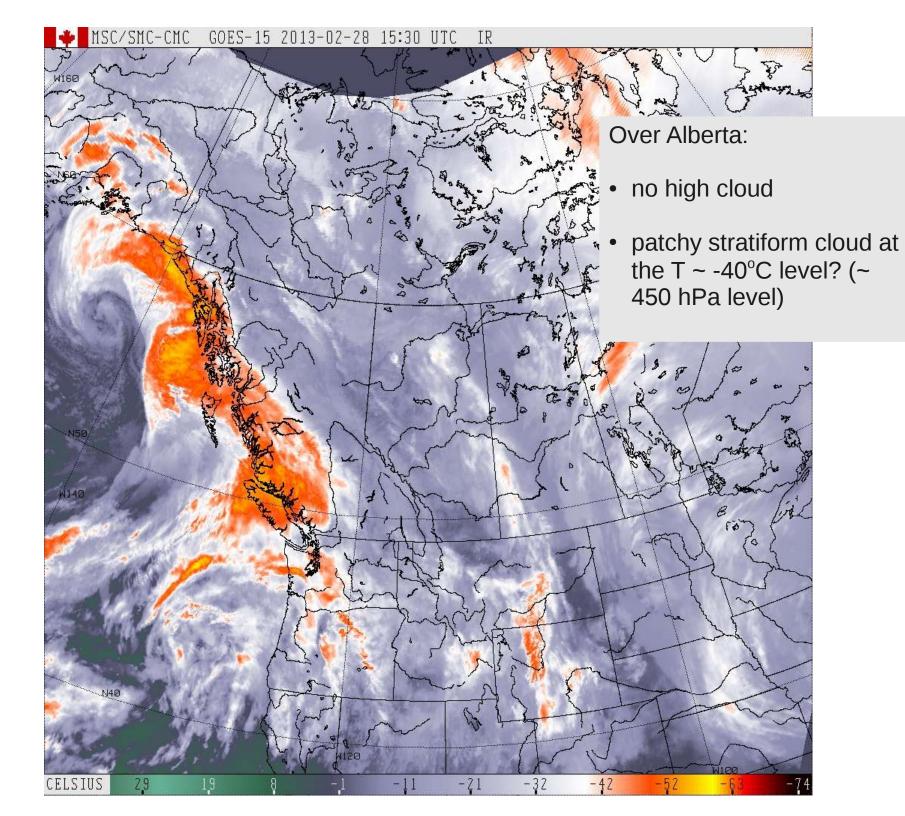


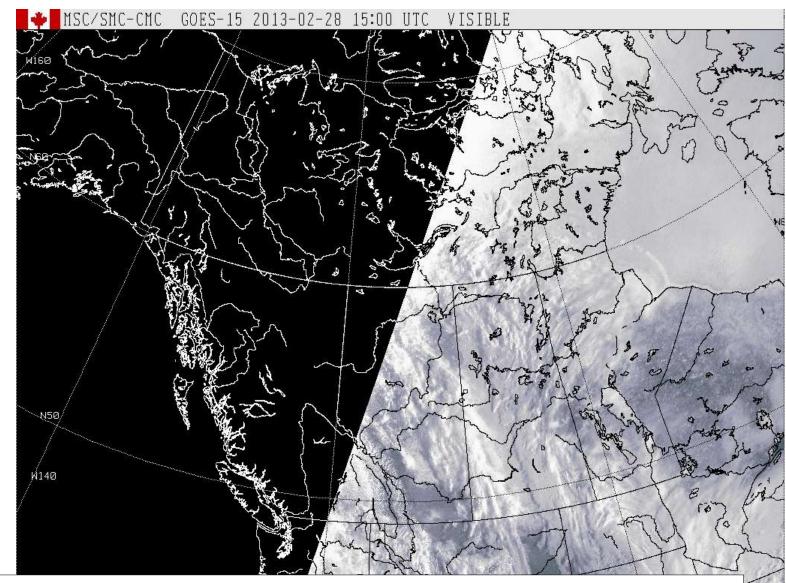










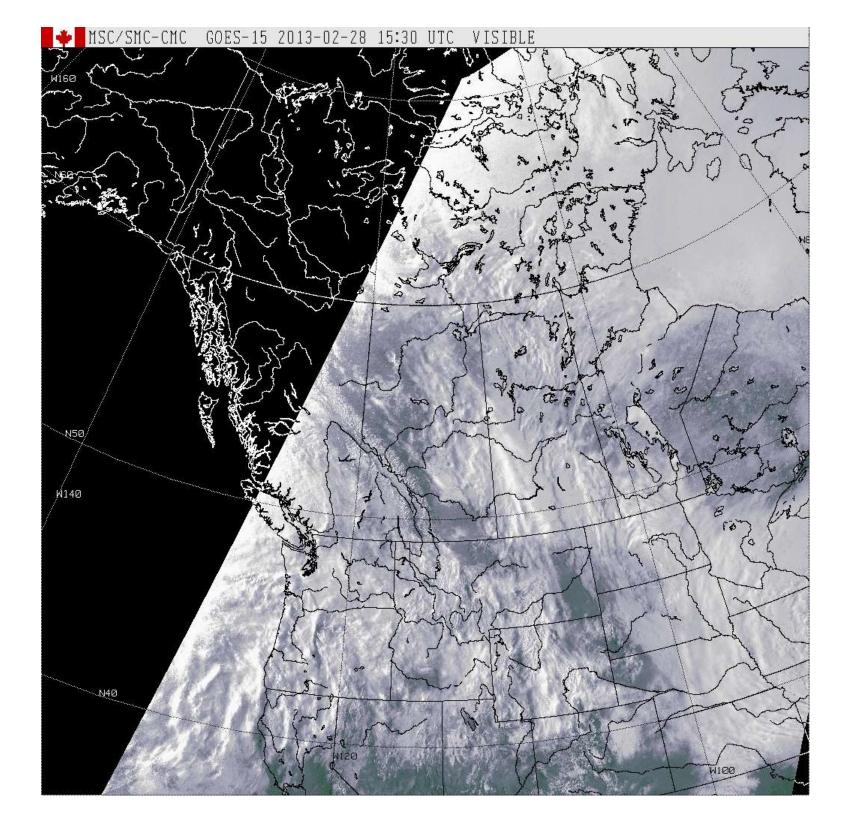


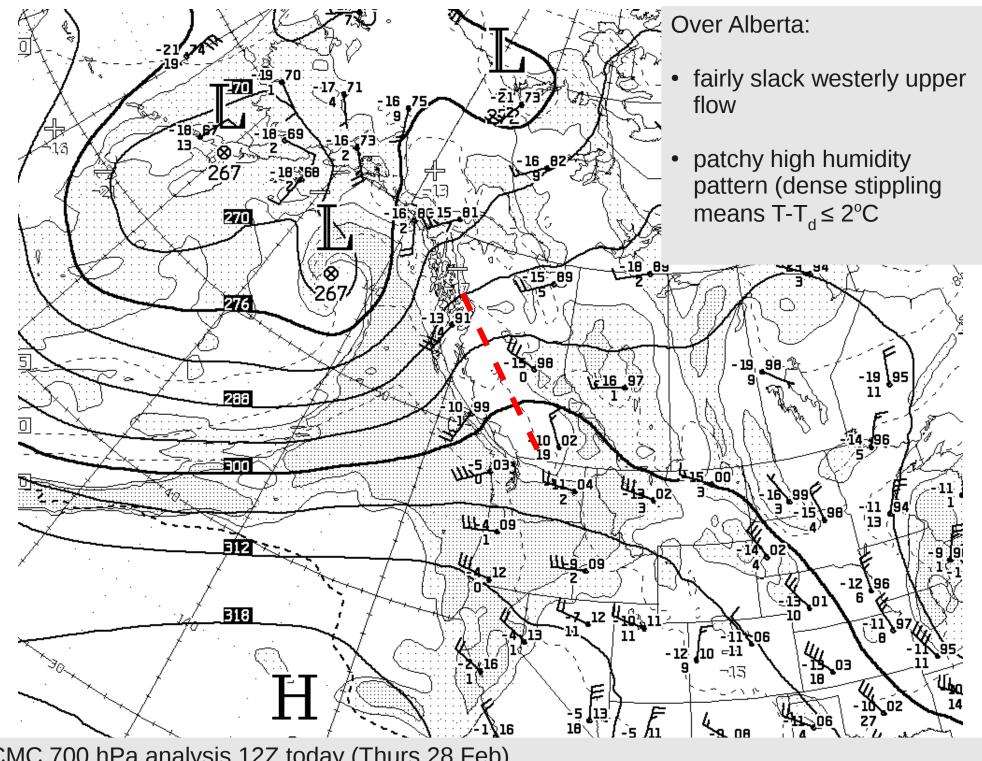
#### EDMONTON/EDMONTON INTL/AB

METAR CYEG 281500Z 15003KT 15SM FEW077 SCT082 SCT170 BKN250 M10/M13 A3005 RMK AC1AC2AC1CI1 SLP228=

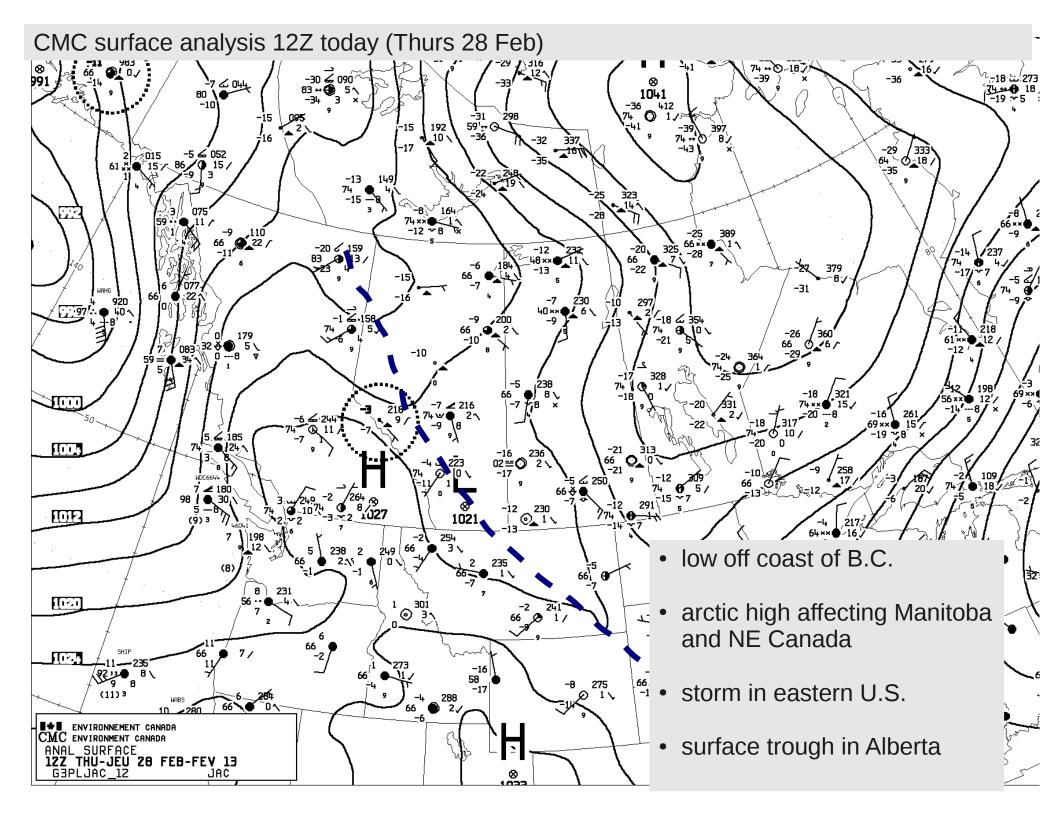
METAR CYEG 281400Z 16006KT 15SM FEW055 BKN077 BKN084 M06/M10 A3004 RMK SC1AC4AS2 VIRGA SLP222=

METAR CYEG 281300Z 17005KT 15SM FEW053 OVC083 M07/M09 A3004 RMK SC1AS7 VIRGA SLP221=

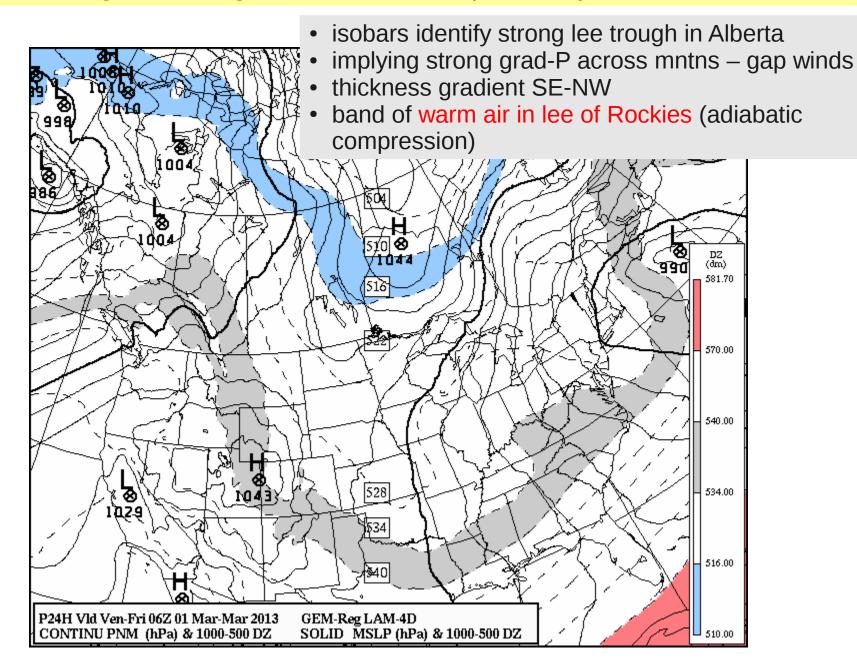


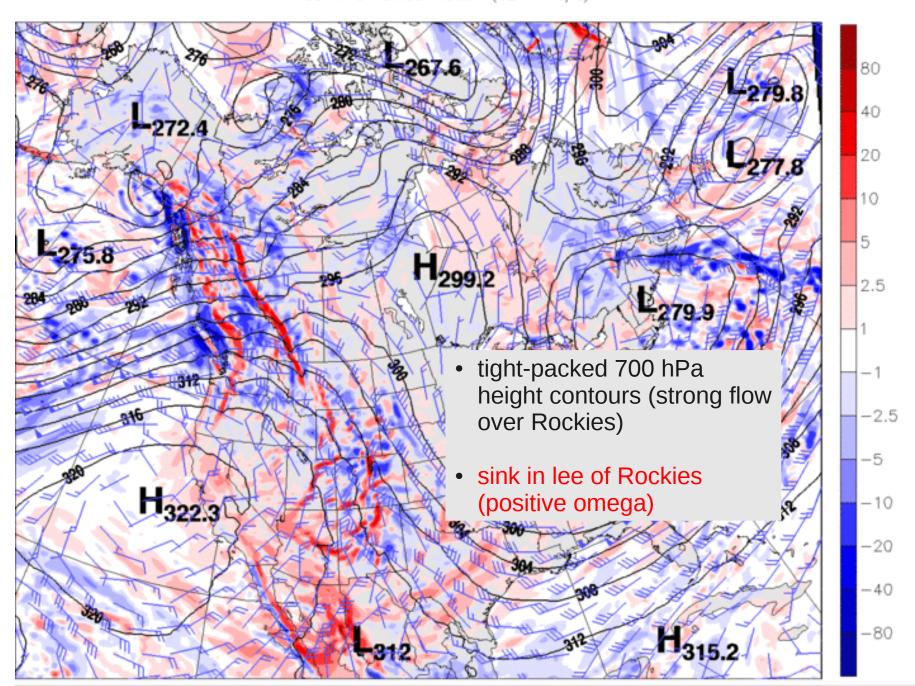


CMC 700 hPa analysis 12Z today (Thurs 28 Feb)



## Now concerning lee trough & winds anticipated by MSC forecasters...





GEM reg 24-h prog initialized 06Z today (Thurs 28 Feb) and valid 06Z Friday (11 pm today)

#### **Edmonton**

#### Current Conditions

More info



Observed at: Edmonton City Centre Airport Date: 8:00 AM MST Thursday 28 February 2013

Condition: Mostly Cloudy Temperature: -5.5°C 102.1 kPa Dewpoint: Pressure: -9.2°C

Tendency: rising Humidity: 75 %

Wind: SSW 6 km/h 10 km Visibility: -8

Wind Chill: 5 Air Quality Health Index:

#### Forecast

#### More info

110	Wod

Today	Fri	Sat	Sun	Mon	Tue	Wed
***	4			*	*	*
2°C	7°C -3°C	-3°C	-2°C -2°C 60%	-6°C -12°C	-3°C -13°C	-3°C -12°C

#### Issued: 5:00 AM MST Thursday 28 February 2013

Today Mainly cloudy. Clearing near noon. High plus 2.

Tonight Increasing cloudiness this evening. Low minus 3.

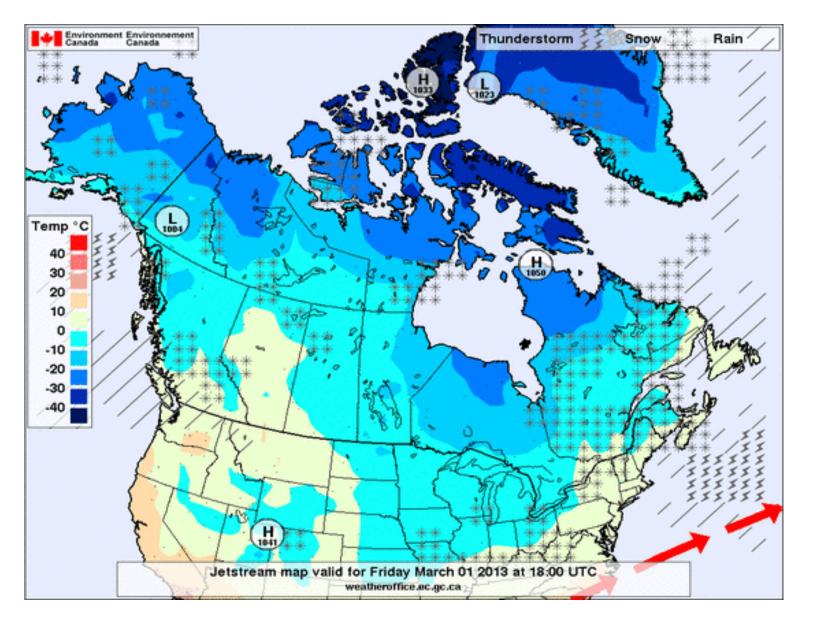
Cloudy, Becoming a mix of sun and cloud late in the afternoon, High Friday

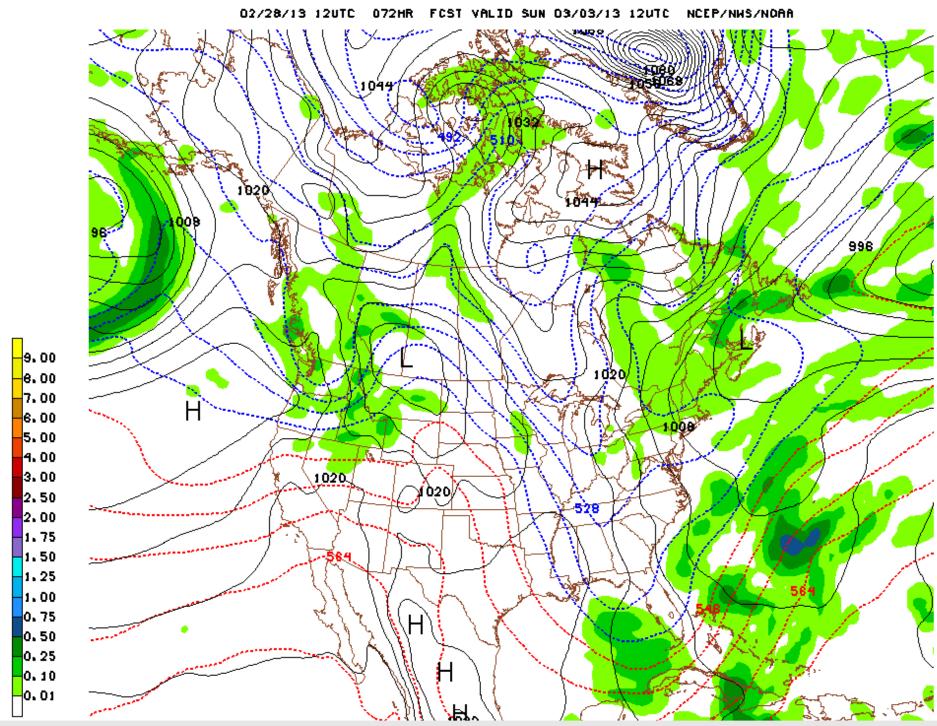
7.

Saturday Cloudy, Low minus 3, High plus 3,

Sunday Cloudy with 60 percent chance of flurries. Low minus 2. High minus 2.

Sunny, Low minus 12, High minus 6, Monday





NAM 72-h prog initialized 12Z today valid 12Z Sunday

