### Meteorology of our foggy weekend: Sat. 21 through Mon 23 Jan. 2017

ENVIRONMENT CANADA AT 2:00 PM CST SATURDAY JANUARY 21 2017.

DISCUSSION... WIDE SPREAD FOG FORMED OVERNIGHT IN EAST-CENTRAL ALBERTA AND EXPANDED WESTWARD TOWARDS THE QEIL HIGHWAY THIS MORNING. ADVISORIES WILL REMAIN IN PLACE UNTIL THIS AFTERNOON WHEN FOG IS EXPECTED TO LIFT SOMEWHAT. MAY SEE FOG FORM AGAIN OVER CENTRAL REGIONS TONIGHT AS THE SURFACE RIDGE BUILDS IN FROM THE NW....

ENVIRONMENT CANADA AT 7:00 AM CST SUNDAY JANUARY 22 2017.

SYNOPTIC OVERVIEW...ALOFT THIS MORNING, FLOW AT ALL LEVELS IS VERY SLACK OVER WESTERN CANADA, WITH ONLY A WEAK CYCLONIC FLOW OVER THE PRAIRIES AND AN OCCLUDED LOW OFF THE PACIFIC NORTHWEST... A SPRAWLING AREA OF HIGH PRESSURE CENTERED OVER WESTERN NUNAVUT COVERS THE FORECAST AREA.

DISCUSSION... PRAIRIES... WINNIPEG AIRPORT FINALLY FELL BACK BELOW FREEZING SHORTLY BEFORE 11 PM, GIVING JUST SHY OF 67 HOURS OF CONTINUOUS ABOVE FREEZING TEMPERATURES, A NEW RECORD FOR JANUARY.

ENVIRONMENT CANADA AT 7:00 AM CST TUESDAY JANUARY 24 2017.

SYNOPTIC OVERVIEW...VERY SLACK FLOW AT 500 MB OVER THE PRAIRIES, WITH SEVERAL CIRCULATIONS DRIFTING LAZILY OVER THE AREA.

DISCUSSION... AB...FOG, LOW CLOUD, AND THE CLEARING OR MAINTENANCE THEREOF IS THE CONCERN FOR THE DAY...

TEMPERATURES WILL CONTINUE TO SLOWLY FALL THROUGH THE COMING WEEK AS COOLER AIR SLUMPS BACK SOUTHWARDS, THOUGH ULTIMATELY STILL A BIT ABOVE NORMAL THROUGH THE END OF THE MONTH.





# **Edmonton Int'l Airport, Alberta**

Latitude 53.31° N | Longitude 113.58° W

#### **Past 24 Hour Conditions**

Date / Time (MST)	Conditions	Temperature (°C)	Wind (km/h)		
22 January 2017					
08:00	Mist	-9 (-9.1)	NNE 12		
07:00	Light Snow	-9 (-8.6)	NE 22		
06:00	Mist	-8 (-8.1)	NNE 16		
05:00	Mist	-8 (-7.7)	NNE 13		
04:00	Mist	-7 (-7.0)	NNE 13		
03:00	Mist	-7 (-6.7)	N17		
02:00	Mist	-7 (-6.7)	N18		
01:00	Light Snow	-7 (-6.5)	NNW 14		
00:00	Light Freezing Drizzle	-7 (-6.5)	NNW 14		

January	

17:00

16:00

23:00	Light Snow	-6 (-6.1)	NNW 15
22:00	Light Snow	-6 (-6.1)	N18
21:00	Light Snow	-6 (-6.0)	N23
20:00	Snow Grains	-6 (-5.5)	NNW 21
19:00	Snow Grains	-5 (-5.3) <b>†</b>	NNW 14
18:00	Freezing Fog	15:00	

Anthony Henday Drive closed due to crashes as dense fog rolls over Edmonton

Morgan Smith January 21, 2017 10:27 am



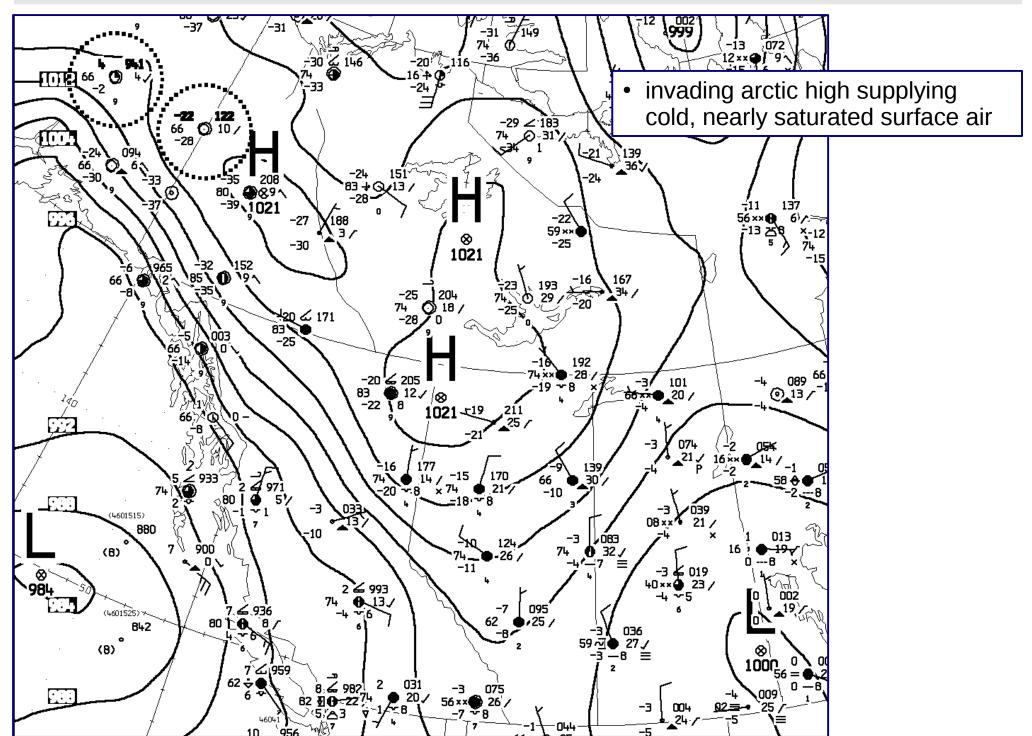
Freezing Fog

Freezing Fog

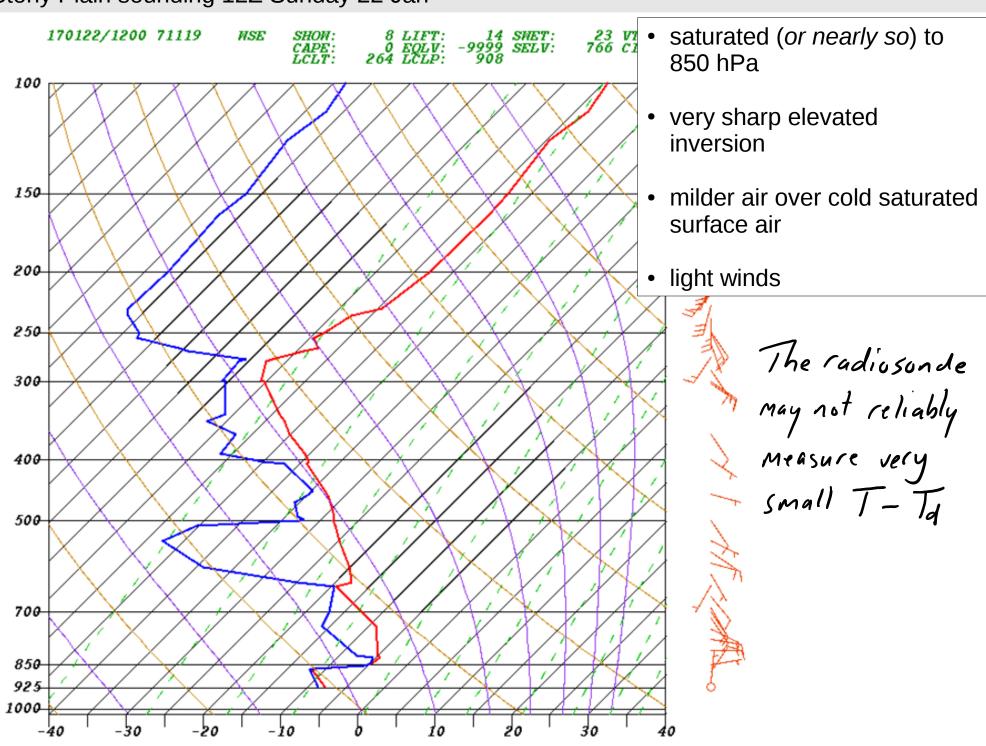
15:00	Freezing Fog	-7 (-6.9)	NW 12
14:00	Freezing Fog	-8 (-7.5)	NW 10
13:00	Freezing Fog	-9 (-9.1)	NW 5
12:00	Freezing Fog	-10 (-10.2)	NW 4
11:00	Freezing Fog	-11 (-10.6)	SW 4
10:00	Freezing Fog	-12 (-12.1)	WSW 5
09:00	Freezing Fog	-13 (-13.1) <b>↓</b>	W 4

# 700 hPa analyses 00Z Sunday 22 Jan and 00Z Monday 23 January 2017 296 ž Erskine Alberta, Jan. 23 (Amanda; from Weather Network) 15 85 12 87 -11 .85 9 85 11 88 17 13 80 12 83\_ 27 6 10 8 入88 -14 ,91 ⊗ 287 light upslope flow somewhat humid 12291 16 **:110** (90 ×

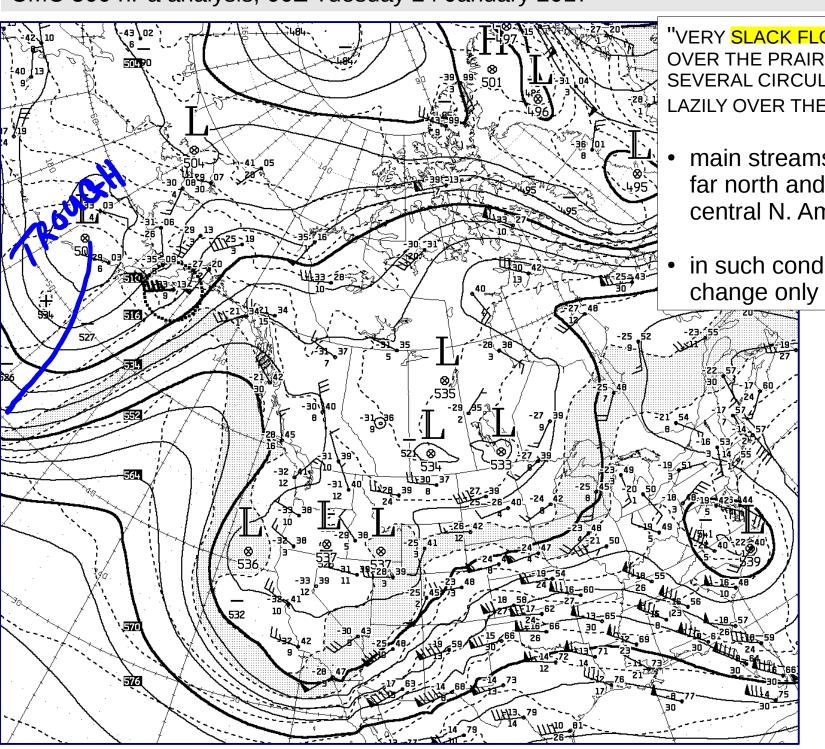
# GOES ir 1230Z Sat 21/Sun 22/Mon 23 Jan. 2017 + 850 hPa analyses 00Z Sun 22 Jan. • the fog/cloud is low-topped weak upslope wind • saturated at 850 hPa



# Stony Plain sounding 12Z Sunday 22 Jan



## CMC 500 hPa analysis, 00Z Tuesday 24 January 2017



"VERY SLACK FLOW AT 500 MB OVER THE PRAIRIES, WITH SEVERAL CIRCULATIONS DRIFTING LAZILY OVER THE AREA."

main streams aloft passing far north and far south of central N. America

in such conditions, patterns change only slowly

