

EAS 372. FORECAST for location C. ALBERTA by J.D. WILSON

Prepared day/date/time THURS. 8 JAN. 2015 Valid 12-18Z SAT. 10 JAN. 2015
(16 MST)

(Legible) point form. Qualitative or quantitative prediction as seems appropriate.

Source(s) e.g. GEM
reg 48h, NAM, Public fcst,
sounding, GOES, UKMet,.

Dominant/most relevant surface system and its location w.r.t. zone of interest

Arctic high over Yukon + AB, arctic vortex in NE Cda

MOSTLY RDPS

Strength & character of winds aloft (700 hPa or higher – strong/ average/
slack; zonal?; highly meridional?; upwind ridge/trough?; etc.)

+ NAM

Firm northerly

Thickness (likely value; trend or change relative to present)

About 522 dam (whereas 516 dam at 12Z Thurs.) No great change

Thermal pattern at 850 hPa level (e.g. very uniform/front nearby...)

-10 to -15°C

Surface temperature

Below -20°C (for 12Z), slightly warmer by 18Z [GFS disagrees]

Humidity aloft

Below 50% RH at 700 hPa to NE of Edmonton, humid band to SW

Cloud (coverage in octas; level & type)

Likely some mid level stratiform cloud (clear in NE AB)

Surface wind (speed & direction)

Light. Direction unpredictable

Shortwaves (vort. maxs at 500 hPa?)

nothing remarkable

Stability (based on forecast sounding)

Stable, but neutral wrt. saturated adiabatic motion in a layer near ground

Vertical motion (omega at 850 & 700 hPa levels)

nil

Precipitation (likelihood & character)

Edmonton on edge of a band of 6 hr precip (none or very light)

Noteworthy factors (e.g. presence of snow cover constraining sfc temperature, etc.)

Fcst elements least/most certain

Surface wind dir; whether or not there may be
midlayer cloud (in view of higher 700hPa humidity band);
sfc temp. It will be cold, but maybe not very cold.