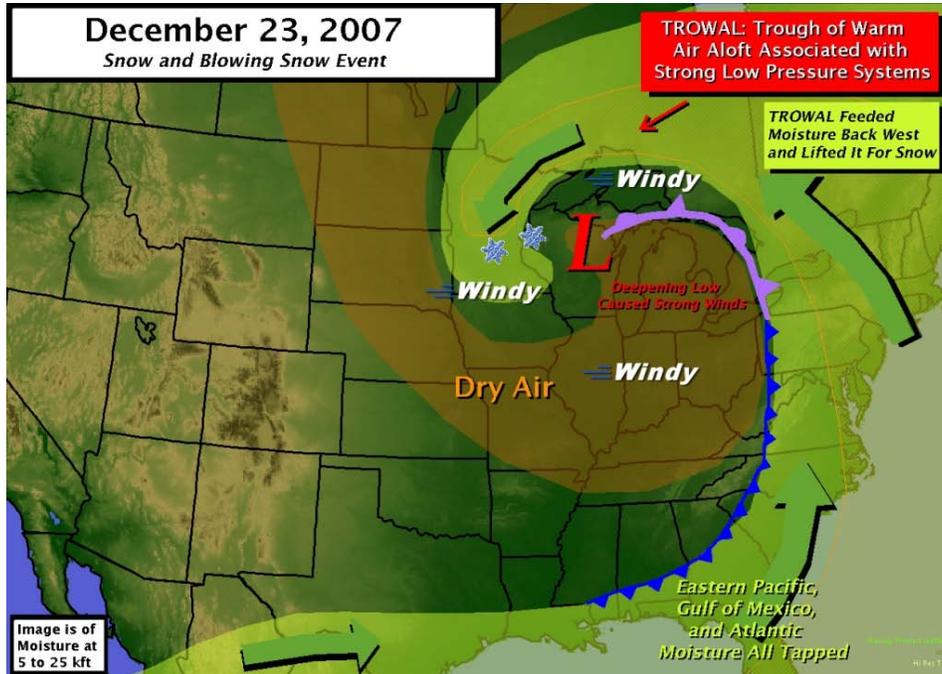
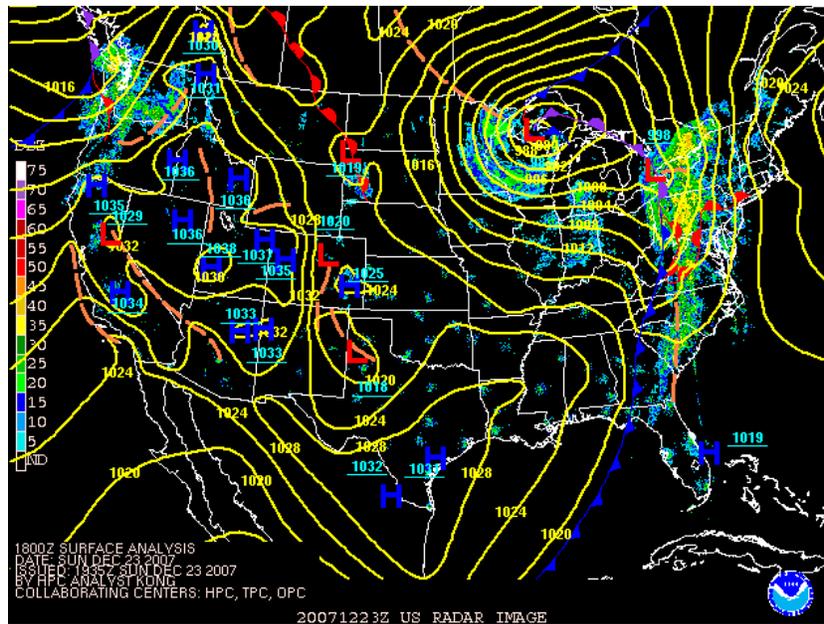


December 23, 2007

*Meteorological Setup*



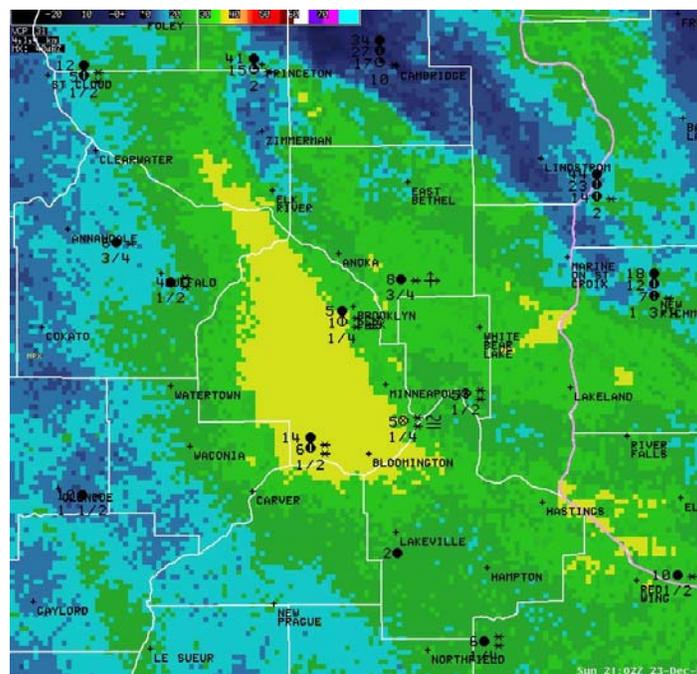
Meteorological Setup



Surface Map and Radar from 12 pm

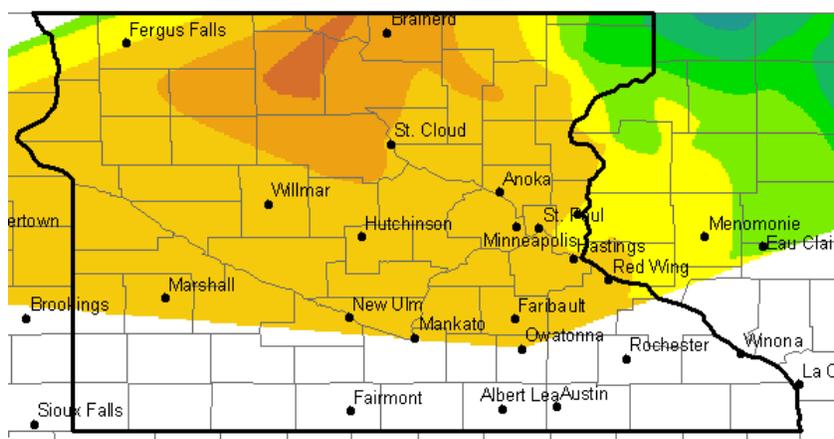
A powerful low pressure system organized in the southern Plains on Saturday and intensified rapidly Saturday night as it lifted northwards over the Mississippi River valley. This caused widespread snow from Kansas into Wisconsin. Early on Sunday the low became stationary over northeast Wisconsin but continued to intensify due to favorable conditions in the upper atmosphere. This strengthening caused a rapid increase in the winds on Sunday throughout the entire Great Lakes as well as much of the Midwest and Ohio River valley. Maximum wind speeds from the local area can be found below.

The system's intensity was great enough to wrap moisture almost entirely around it and this is what set the stage for the snowfall. This phenomenon, known by meteorologists as a TROWAL (trough of warm air aloft), was ascending warm and moist air near 10-20 thousand feet aloft into the region. This can act as sort of a "backdoor" cause for precipitation, as this came into Minnesota and Wisconsin from the northeast as opposed to the typical precipitation directions of south or west. Also, the atmosphere was favorable for high snow to liquid ratios in the snowfall. This type of snow is the lightest and most susceptible to blowing. Low visibilities, at times less than a quarter mile, were observed throughout central and southern Minnesota and west central Wisconsin through most of Sunday.



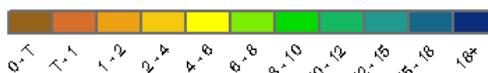
3 pm Doppler Radar and Observations Showing Snow Band Over Minneapolis and the Western Suburbs

## December 23, 2007 Snow Storm



### Legend

Inches

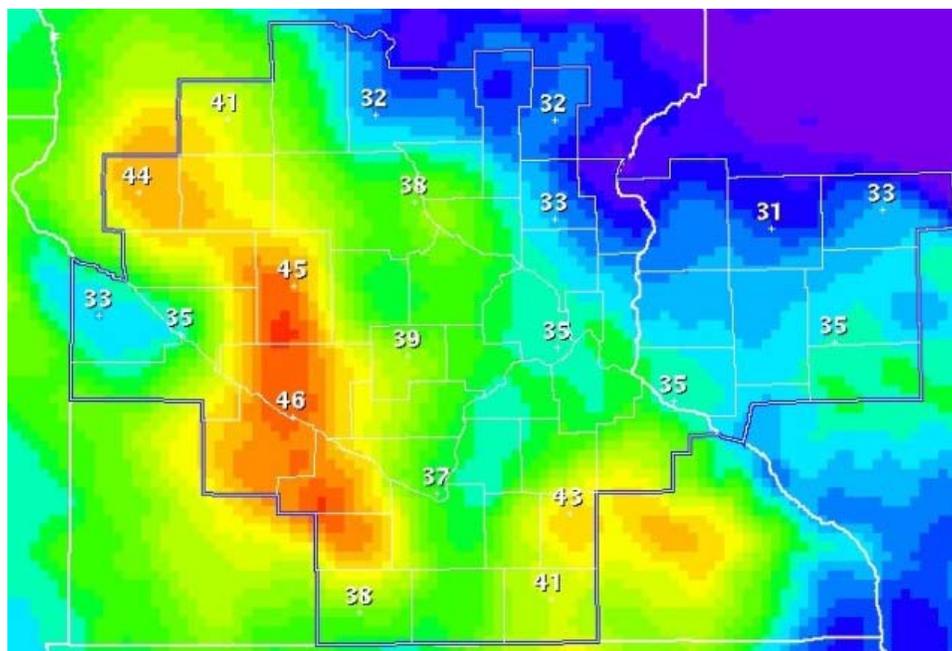


...SNOWFALL AMOUNTS FROM THE SUNDAY DECEMBER 23RD SNOW EVENT...

THE TOTALS BELOW ARE SEPARATED INTO SNOW...AND ICE AND SLEET CATEGORIES...THEN BY AMOUNT...AND ARE NOT NECESSARILY THE FINAL AMOUNT FOR EACH LOCATION.  
SNOW REPORTS LISTED BY AMOUNT

INCHES	LOCATION	ST	COUNTY	TIME
7.50	LUCK	WI	POLK	0900 PM
6.80	STANLEY	WI	CHIPPEWA	0500 PM
6.70	EAU CLAIRE	WI	EAU CLAIRE	0522 PM
6.00	CUMBERLAND	WI	BARRON	0330 PM
6.00	LADYSMITH	WI	RUSK	1230 PM
6.00	12 N BRUCE	WI	RUSK	1230 PM
5.00	12 NW BALSAM LAKE	WI	POLK	1230 PM
4.50	CLAYTON	WI	POLK	0754 PM
4.40	WOODBURY	MN	WASHINGTON	0530 PM
4.00	SW ST PAUL	MN	RAMSEY	0921 PM
3.90	NEW HOPE	MN	HENNEPIN	0800 PM
3.90	MINNEAPOLIS	MN	HENNEPIN	0641 PM
	MEASURED IN SOUTH MINNEAPOLIS NEAR 46TH AND BLOOMINGTON.			
3.80	10 N ST CROIX FALLS	WI	POLK	0402 PM

3.70	NORTH ST PAUL	MN	RAMSEY	0345 PM
3.70	ST PAUL	MN	RAMSEY	0310 PM
3.50	RED WING	MN	GOODHUE	0921 PM
3.50	FRIDLEY	MN	ANOKA	0755 PM
3.50	CAMBRIDGE	MN	ISANTI	0755 PM
3.50	MEDICINE LAKE	MN	HENNEPIN	0655 PM
3.20	RUSH CITY	MN	CHISAGO	1014 PM
3.10	MINNEAPOLIS	MN	HENNEPIN	1224 AM
MEASURED AT MINNEAPOLIS/ST. PAUL INTERNATIONAL AIRPORT.				
3.00	RUSH CITY	MN	CHISAGO	0500 PM
2.40	CHANHASSEN	MN	CARVER	1200 AM
2.10	ST CLOUD	MN	STEARNS	1227 AM
2.10	7 S HILLMAN	MN	MORRISON	0800 PM
2.00	OWATONNA	MN	STEELE	0407 PM
1.80	5 N OGILVIE	MN	KANABEC	0405 PM
0.60	LONG PRAIRIE	MN	TODD	0800 AM



Map of Maximum Observed Wind Speeds From December 23<sup>rd</sup>

PUBLIC INFORMATION STATEMENT  
 NATIONAL WEATHER SERVICE TWIN CITIES/CHANHASSEN MN  
 839 PM CST SUN DEC 23 2007

...MAXIMUM OBSERVED WIND SPEEDS FROM SUNDAY...

A STRONG LOW PRESSURE SYSTEM CENTERED NEAR GREEN BAY WISCONSIN MOST OF SUNDAY GENERATED STRONG WEST NORTHWEST WINDS OVER MUCH OF THE REGION. BELOW ARE SOME OF THE HIGHEST OBSERVED WIND

SPEEDS AT AUTOMATED STATIONS WITHIN CENTRAL AND SOUTHERN MINNESOTA AND WEST CENTRAL WISCONSIN. THE TIME OF OCCURRENCE IS ROUNDED TO THE NEAREST HOUR. IT SHOULD BE NOTED THAT EVEN HIGHER WIND SPEEDS MAY HAVE OCCURRED BETWEEN OBSERVATIONS...AND NOT ALL MEASUREMENTS ARE QUALITY CONTROLLED.

LOCATION	MAXIMUM OBSERVED WIND SPEED	TIME
ALBERT LEA MN.....	39 MPH.....	2 PM
ALEXANDRIA MN.....	41 MPH.....	4 PM
APPLETON MN.....	38 MPH.....	12 PM
BENSON MN.....	41 MPH.....	12 PM
CANBY MN.....	36 MPH.....	6 PM
EAU CLAIRE WI.....	35 MPH.....	1 PM
EDEN PRAIRIE MN.....	37 MPH.....	1 PM
FARIBAULT MN.....	39 MPH.....	4 PM
GLENCOE MN.....	40 MPH.....	1 PM
GLENWOOD MN.....	41 MPH.....	11 AM
GRANITE FALLS MN.....	41 MPH.....	1 PM
HUTCHINSON MN.....	40 MPH.....	1 PM
LITCHFIELD MN.....	36 MPH.....	11 AM
MADISON MN.....	38 MPH.....	2 PM
MENOMONIE WI.....	35 MPH.....	2 PM
MINNEAPOLIS ST. PAUL		
INTL AIRPORT MN.....	35 MPH.....	2 PM
MORRIS MN.....	44 MPH.....	1 PM
NEW ULM MN.....	41 MPH.....	2 PM
OLIVIA MN.....	41 MPH.....	12 PM
OWATONNA.....	43 MPH.....	3 PM
PAYNESVILLE MN.....	37 MPH.....	3 PM
RED WING MN.....	33 MPH.....	12 PM
REDWOOD FALLS MN.....	46 MPH.....	2 PM
ST CLOUD MN.....	39 MPH.....	12 PM
ST JAMES MN.....	46 MPH.....	9 PM
ST PAUL MN.....	35 MPH.....	2 PM
STANTON MN.....	39 MPH.....	3 PM
TRACY MN.....	38 MPH.....	2 PM
WASECA MN.....	39 MPH.....	11 AM
WILLMAR MN.....	46 MPH.....	4 PM