



# Bitter Cold This Weekend Into Next Week

January 16, 2025  
2:43 PM

Long Duration Dangerous Wind Chills!!!!



## Key Messages

- **Snow squalls** are possible Friday afternoon (30% chance)
- **Very cold temperatures** are expected to arrive by Friday night and continue into Wednesday Morning
  - ◆ **High temperatures** are very likely to be **below 0°F**
  - ◆ **Low temperatures of -15° to -25° F** are likely
  - ◆ **Wind chills will range from -30° to -45° F**

NEW

## What Has Changed

- Slightly increased chance for snow squalls

July 17

## Next Scheduled Update

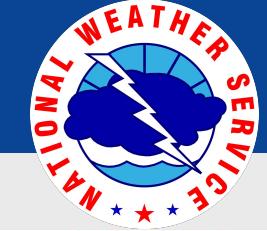
- Friday Morning

Actual Lowest Air Temperatures  
Not Including Wind Chill

	Minimum Temperature Forecast (°F)							Minimum
	1/17 Fri	1/18 Sat	1/19 Sun	1/20 Mon	1/21 Tue	1/22 Wed	1/23 Thu	
Aitkin	10	-10	-16	-21	-21	-6	3	-21
Ashland	20	0	-8	-10	-15	-4	6	-15
Brainerd	10	-8	-15	-20	-20	-4	4	-20
Duluth	12	-8	-19	-20	-20	-6	1	-20
Ely	7	-13	-19	-23	-23	-9	0	-23
Grand Marais	12	-10	-16	-21	-15	-5	2	-21
Grand Portage	15	-7	-13	-19	-13	1	3	-19
Grand Rapids	8	-12	-17	-22	-22	-7	1	-22
Hayward	16	-7	-14	-20	-20	-8	2	-20
Hibbing	8	-12	-22	-19	-23	-8	0	-23
Hinckley	14	-7	-14	-19	-19	-5	4	-19
Hurley	18	-3	-12	-15	-17	-6	3	-17
International Falls	4	-14	-19	-24	-23	-8	-1	-24
Moose Lake	12	-8	-15	-20	-20	-6	2	-20
Phillips	19	-6	-16	-19	-19	-9	2	-19
Sea Gull Lake	8	-13	-20	-24	-20	-6	-1	-24
Silver Bay	13	-8	-14	-18	-17	-4	3	-18
Siren	16	-5	-13	-16	-16	-5	4	-16
Solon Springs	14	-7	-15	-20	-20	-7	1	-20
Spooner	17	-5	-13	-19	-19	-6	3	-19
Two Harbors	14	-6	-12	-17	-13	-3	4	-17
Walker	5	-13	-18	-23	-22	-5	3	-23







# Dangerous Wind Chills

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At these values, frostbite could form in just **10** minutes on exposed skin!

- **Minimize Exposure** – Avoid exposure during the coldest wind chills.
- **Stay Dry** – Wet clothing causes body heat to be lost faster. Wear waterproof insulated boots.
- **Stay Covered** – Wear a hat and gloves! At least half your body heat is lost if your head is not covered.
- **Dress in Layers** – Trapped air between layers helps to insulate.

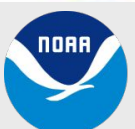
**Wind Chill** is the air temperature equivalent in calm wind which would result in heat loss equal to the temperature and wind together. **Body heat loss can cause frostbite and/or hypothermia.**

Minimum Wind Chill Forecast (°F)

	1/16 Thu 12pm	1/17 Fri 12am 12pm	1/18 Sat 12am 12pm	1/19 Sun 12am 12pm	1/20 Mon 12am 12pm	1/21 Tue 12am 12pm	1/22 Wed 12am 12pm	1/23 Thu 12am	Minimum
Aitkin	17	16 -8	-20 -28	-34 -31	-35 -34	-35 -23	-17 -4	-6	-35
Ashland	13	14 4	-12 -18	-28 -26	-31 -28	-31 -21	-18 -3	-6	-31
Brainerd	16	16 -9	-21 -26	-34 -31	-36 -34	-33 -23	-17 -3	-5	-36
Duluth	11	11 -7	-23 -28	-39 -35	-40 -35	-35 -26	-21 -10	-12	-40
Ely	11	11 -12	-24 -31	-39 -36	-40 -36	-35 -24	-20 -8	-10	-40
Grand Marais	10	10 -8	-25 -35	-41 -41	-44 -39	-39 -25	-23 -11	-14	-44
Grand Portage	11	12 -3	-21 -27	-33 -34	-37 -31	-31 -17	-15 -4	-7	-37
Grand Rapids	15	15 -11	-24 -31	-36 -34	-37 -34	-35 -24	-18 -7	-8	-37
Hayward	14	14 2	-15 -20	-31 -29	-32 -29	-31 -21	-19 -4	-4	-32
Hibbing	9	9 -13	-26 -32	-41 -37	-40 -37	-37 -27	-23 -10	-12	-41
Hinckley	16	14 -2	-15 -23	-31 -29	-32 -30	-31 -21	-15 -3	-6	-32
Hurley	8	8 2	-15 -22	-31 -31	-36 -35	-37 -28	-25 -8	-10	-37
International Falls	14	14 -15	-27 -34	-40 -35	-41 -36	-37 -26	-19 -8	-11	-41
Moose Lake	16	14 -4	-17 -24	-31 -29	-33 -29	-31 -21	-16 -3	-5	-33
Phillips	12	10 6	-13 -20	-31 -31	-34 -30	-33 -23	-19 -5	-7	-34
Sea Gull Lake	12	15 -5	-21 -25	-35 -31	-36 -31	-28 -19	-15 -2	-7	-36
Silver Bay	16	15 -3	-18 -26	-34 -30	-32 -30	-29 -18	-14 -3	-6	-34
Siren	15	15 1	-14 -21	-31 -29	-32 -29	-31 -20	-15 -2	-4	-32
Solon Springs	14	13 -1	-17 -21	-32 -29	-34 -29	-32 -22	-19 -6	-7	-34
Spooner	14	12 1	-16 -21	-31 -28	-32 -29	-32 -21	-19 -4	-8	-32
Two Harbors	18	17 -2	-17 -24	-31 -29	-32 -29	-29 -20	-15 -4	-4	-32
Walker	14	15 -16	-26 -34	-40 -36	-41 -36	-37 -24	-21 -8	-9	-41

12am = Midnight 12pm = Noon

National Weather Service  
Duluth, MN



National Oceanic and  
Atmospheric Administration  
U.S. Department of Commerce



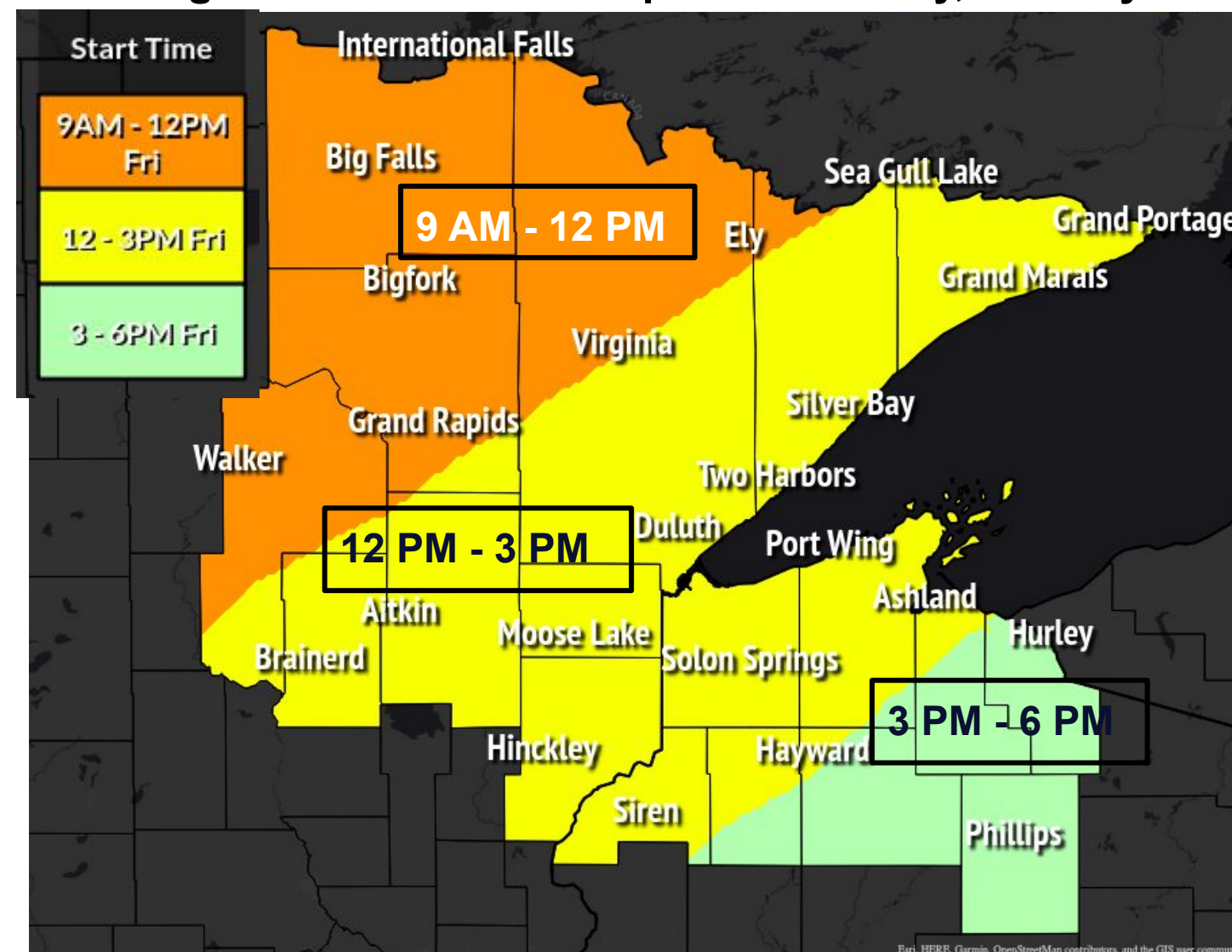
# Snow Squall Potential Friday Afternoon

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2:43 PM

## Details

- A strong cold front will pass through the Northland on Friday
- ◆ Northwest winds 15-20 mph, gusting to 30-35 mph
  - ◆ Temperatures around freezing will rapidly fall into the teens and low 20s by early Friday evening
  - ◆ A band of snow may accompany the cold front as it passes through
    - **Brief snow squalls capable of reducing visibility to ¼ mile (30% chance regionwide)**

### Timing of Potential Snow Squalls on Friday, January 17



#### How Do I Read This?

The graphic above shows reasonable onset timing of snow squall potential on Friday, January 17, 2025. Timing may be +/-1 hour from depicted times.





# QUESTIONS AND ANSWERS ABOUT SNOW SQUALLS

WWW.WEATHER.GOV/SAFETY



## WHAT ARE THEY?

Quick intense bursts of snow  
Accompanied by strong gusty winds  
Short-lived, typically less than 3 hours  
Normally occur during the day

## WHAT ARE THE IMPACTS?

Rapidly reduced visibility  
Treacherous travel conditions  
Potential for chain-reaction accidents



## WHAT'S A SNOW SQUALL WARNING?

Warning is usually 30-60 minutes in length  
Issued for small areas where snow squalls are expected  
Similar to a Tornado or Severe Thunderstorm Warning



## HOW CAN YOU STAY SAFE?

Have a way to get forecasts and warnings  
Consider an alternate route or delaying travel  
Stay alert for rapidly changing road conditions  
Reduce speed and use low beam headlights



WEATHER.GOV

# Conditions can go from this..



# ..to this in an instant

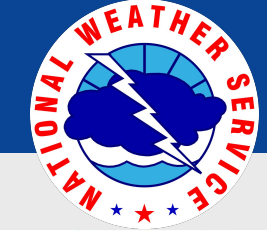


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National Weather Service

weather.gov



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Long Duration Dangerous Wind Chills Expected!!!!



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## Additional Resources

[NWS Duluth Website](#)  
[Snowfall Probability Maps/Table](#)

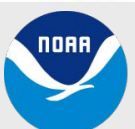
[NWS Duluth on Facebook](#)  
[NWS Duluth on Twitter](#)

[Forecast Points \(Hourly Details\)](#)

**Road Conditions**

MN: [511mn.org](#)

WI: [511wi.gov](#)



National Oceanic and  
Atmospheric Administration  
U.S. Department of Commerce

National Weather Service  
Duluth, MN