

Cosmopolitan Rays, July 24, 2023



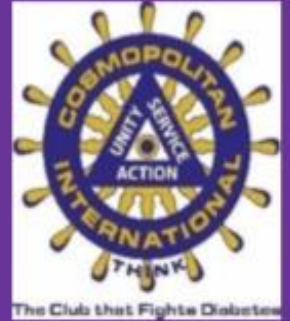
The Club that Fights Diabetes

The Cosmo Rays

Shining Light on the Cosmopolitan Club's Activities

Published After Each Meeting by the Noon Cosmopolitan Club

Meetings Held at Noon on Mondays at Thirsty's at 819 West Main, Rapid City, South Dakota



The Club that Fights Diabetes

**Cosmopolitan
Noon
Luncheon**

July 24, 2023

- **RC Cosmo Club News and Notes
Cosmopolitan Noon Luncheon
Monday – July 24, 2023**
- **The Rapid City Cosmopolitan
Club met Monday–July 24,
2023 At Thirsty's.**

President Chuck
Reuwsaat called
the Meeting to
Order at 12:00
PM.



President Chuck Reuswaat Led the Members in Pledge of Allegiance





Meteorological Consulting
(Cosmopolitan Club Luncheon, 7/24/2023)
Matthew J. Bunkers, Ph.D., GCIA/
Northern Plains Weather Services, LLC
npsweather.com
Rapid 5
805-36



Meteorological Consulting
Commercial and Consulting Services
Muller & Barkley, Ph.D., LLC
Northern Plains Weather Services
Rapid City, SD
605-380-7200



Jim Schuh, Led
the Members in
Prayer.







Gloria Gunn talked
to the Members
about the Next
Summer Nights
Program on
August 3rd.



Jim Preston Presented Jim McGriff and his wife Marge with their new Members Packets



Northern Plains Weather Services, LLC
(Dr. Matthew J. Bunkers, Member)
My company is Northern Plains Weather
Services, LLC, and was established in
2017.

Visit my website at
<https://npweather.com>

I have over 30 years of weather analysis
and forecasting experience. Based out of
Rapid City, South Dakota, I provide
consulting services across the United
States. Clients have been from Arizona,
Colorado, Minnesota, Montana,
Nebraska, North Carolina, North Dakota,
Pennsylvania, South Dakota, Texas, and
Wyoming. Since starting my consulting
business in 2017, I have been retained
and/or used as a consultant for 66 cases.



My specialties include forensic meteorology, weather and forecasting, radar, satellite, severe storms, hail, rainfall and flooding, fog, winter weather, heavy snow, icing, slip and falls, fire weather, high winds, lightning verification, applied climate and meteorology, agriculture weather, education and training, and technical editing.

I grew up on a dairy farm in eastern South Dakota, and have a passion for meteorology, solving problems, and helping others. As a result, I worked to receive my Certified Consulting Meteorologist (CCM) designation from the American Meteorological Society (AMS), acquiring this on 30 January 2017 (#731). According to the AMS, "The CCM program is a service for the general public by the AMS. The Society has established high standards of technical competence, character, and experience for certified consultants who provide meteorological advice to the public." I have been a member of the AMS since 1991, the National Weather Association since 1994, and the Association of Certified Meteorologists

I am a graduate of the South Dakota School of Mines and Technology, earning my Ph.D. in December 2005 in Atmospheric, Environmental, and Water Resources. I have been employed with the National Weather Service in Rapid City since 1991. In addition, I am the Chief Editor for the American Meteorological Society (AMS) journal, Weather and Forecasting, and a Technical Editor for the National Weather Association's Journal of Operational Meteorology.

My CV and fee schedule are available upon request (605-390-7243, nrnplnsweather@gmail.com)

Motivation, Experience, and Specialties:

I have a passion for meteorology, solving problems, and helping others (additional information here).

Over 30 years of weather analysis and forecasting experience, and over 6 years as a consulting meteorologist

Specialties include: forensic meteorology, weather and forecasting, radar, satellite, severe storms, hail, rainfall and flooding, fog, winter weather, heavy snow, icing, slip and falls, fire weather, high winds, lightning verification, applied climate and meteorology, agriculture weather, education and training, and technical editing

Meteorological Consulting

(Cosmopolitan Club Luncheon, 7/24/2023)

Matthew J. Bunkers, Ph.D., CCM

Northern Plains Weather Services, LLC

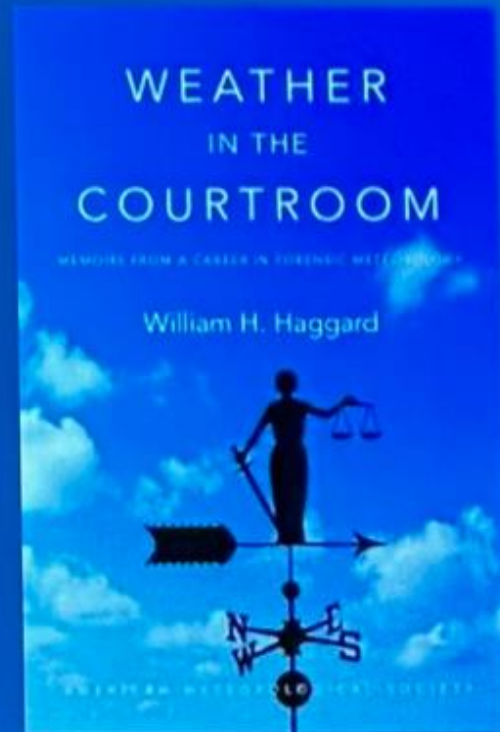
<https://npweather.com>

Rapid City, SD 57701

605-390-7243 (m)

Consulting/forensic meteorologist

- Consulting meteorologist – a person who provides professional meteorological services to a “client”
 - Can be past, present, or future weather/climate
- Forensic meteorologist – a consulting meteorologist who interprets weather or climate information to help with litigation (e.g., accidents, crime, insurance claims, lawsuits)
 - “**CSI for the weather**” (J. Null, Golden Gate Weather)
- Cases rarely go to trial (~1% to 8%)



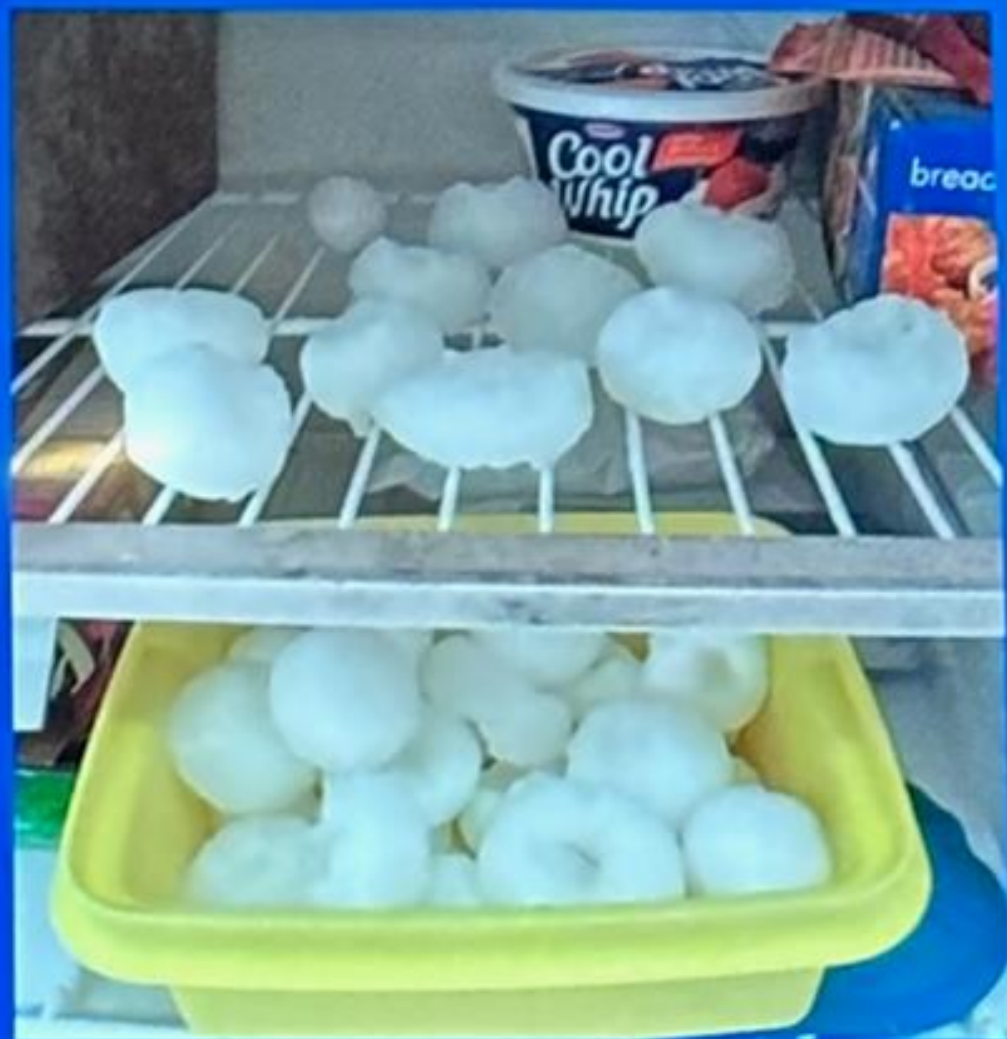
Example meteorological services

- Reconstruct past weather events
- Create reports for litigation or insurance
- Analyze climate patterns (e.g., for construction)
- Develop presentations & provide training
- Expert weather testimony in court
- Provide weather forecasts & decision support for a variety of customers (but NWS does this too)



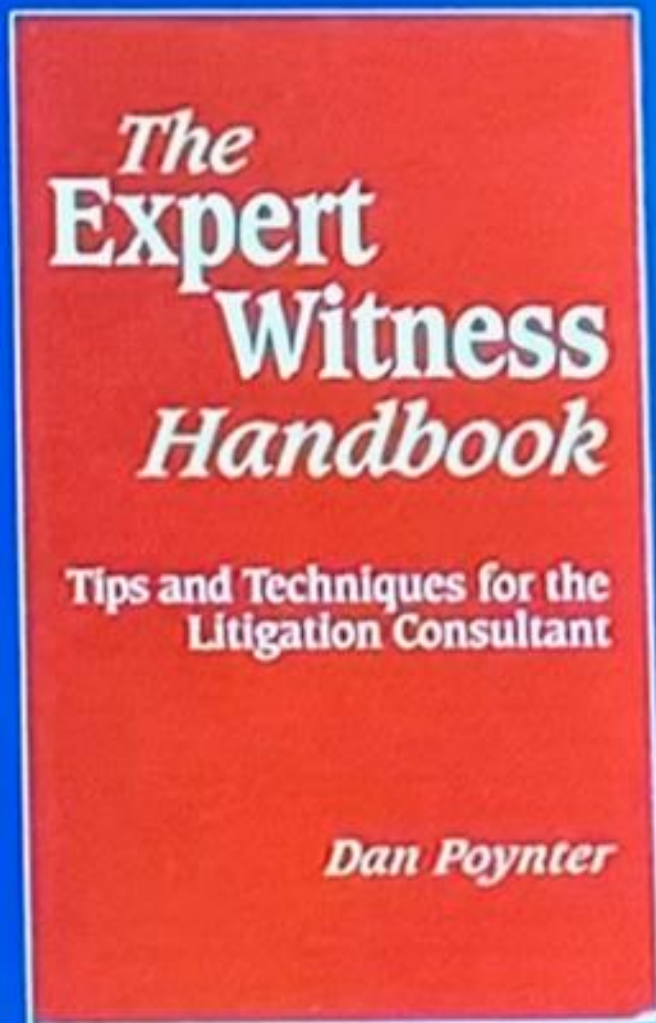
The general process for a “case”

- Location and time of event
- Acquire weather/climate data
- Review reports and depositions
- Determine & document what happened
- Include conclusions, my confidence, & assumptions
- Provide facts and my expert opinion



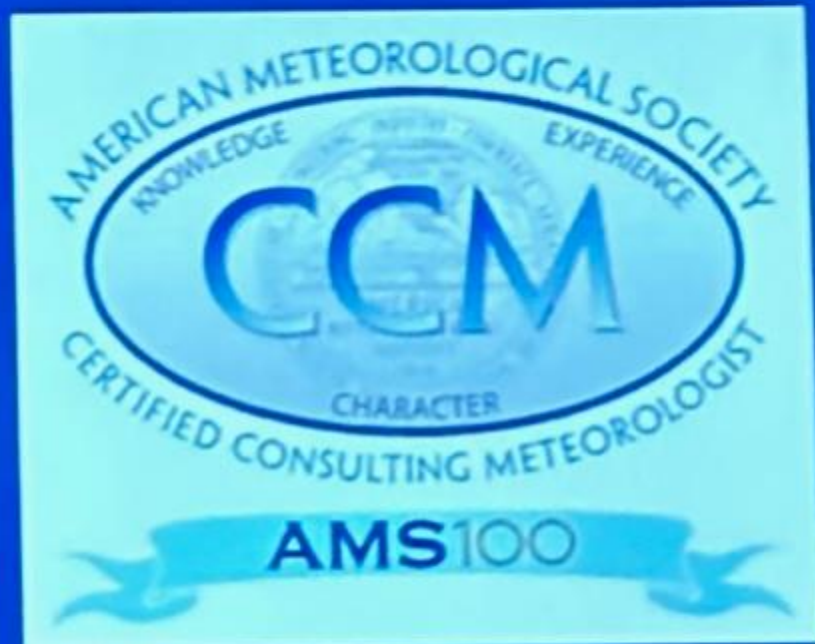
Professional accreditation

- Also known as certification or designation
- Areas of certification include accountancy, architecture, engineering, marketing, medicine, meteorology, and many more
- Independent validation for an individual in a certain profession (does not = Ph.D.)
- Certification is different from *licenses*



Certified Consulting Meteorologist

- Started by the American Meteorological Society (AMS) in 1957—a voluntary program
- Ensures the CCM has the knowledge, experience, and character to provide meteorological consulting services
- B.S. in meteor., 5 years, 3 references, recent report, written & oral exams
- Continuing professional development
- 250 active CCMs as of 7/15/2023



Two early cases
(before I was a CCM)

8

Homicide case (2005)

- Asked by Penn. Co. Sheriff's Office in June 2005 to identify the date a cloud picture was taken
- Related to a kidnapping/murder trial (was in the news)
- Suspect took picture at Belle Fourche; timing was important for plaintiff's case



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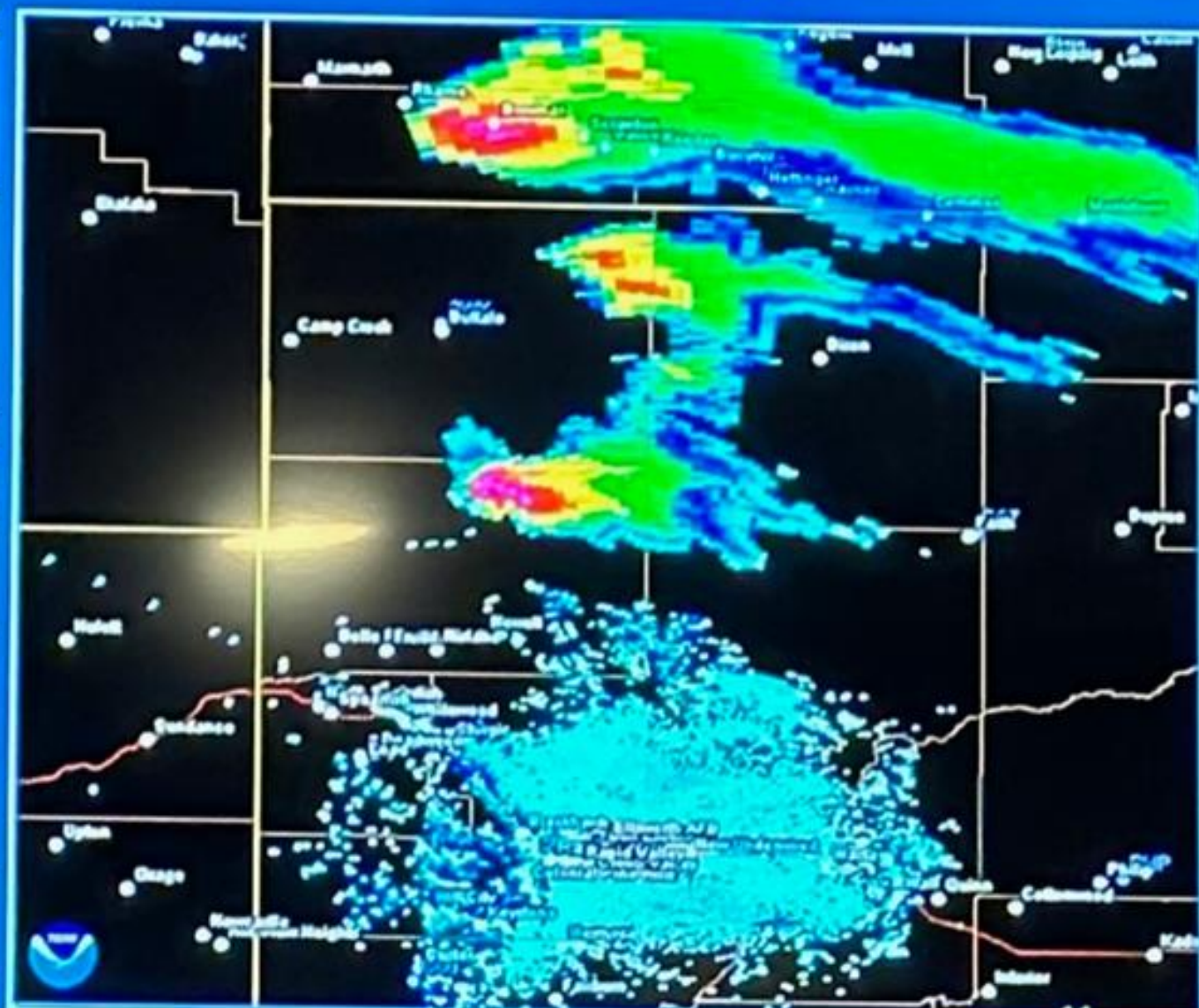
Homicide case (2005)



Looking north from West Rapid City. Not the actual picture, but close to it (plus I had this picture to work with). The sheriff knew "his" picture was taken in the summer of 2004.

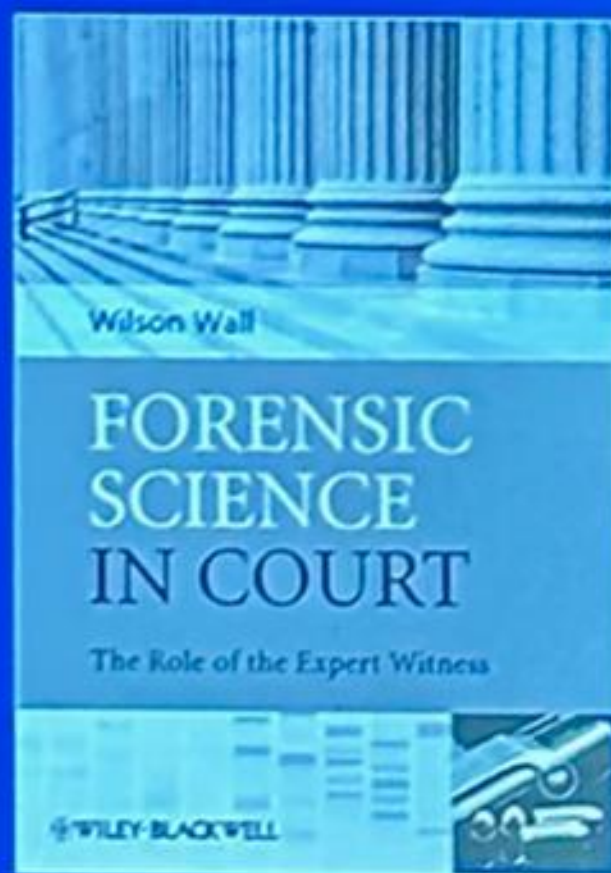
Looked through satellite and radar data to determine

Homicide case (2005)



Homicide case (2005)

- Picture was taken on 14 July 2004
- I was not allowed to testify as an NWS employee (I was not yet a consultant)
- My information was used by another consultant (B.R.); I only testified to the temperatures
- My first glimpse of “weather consulting”



1 July 2012 C-130 crash

- Assisted the United States Air Force and Forest Service with their investigations (again, as part of my NWS duties)
- Provided meteorological data, analysis, and interpretation for the day of the crash (during two different meetings)
- Determined to be a microburst, which is a localized area of strong thunderstorm winds that result from a descending current of air
- **C-130 pilot not properly notified by the lead plane**

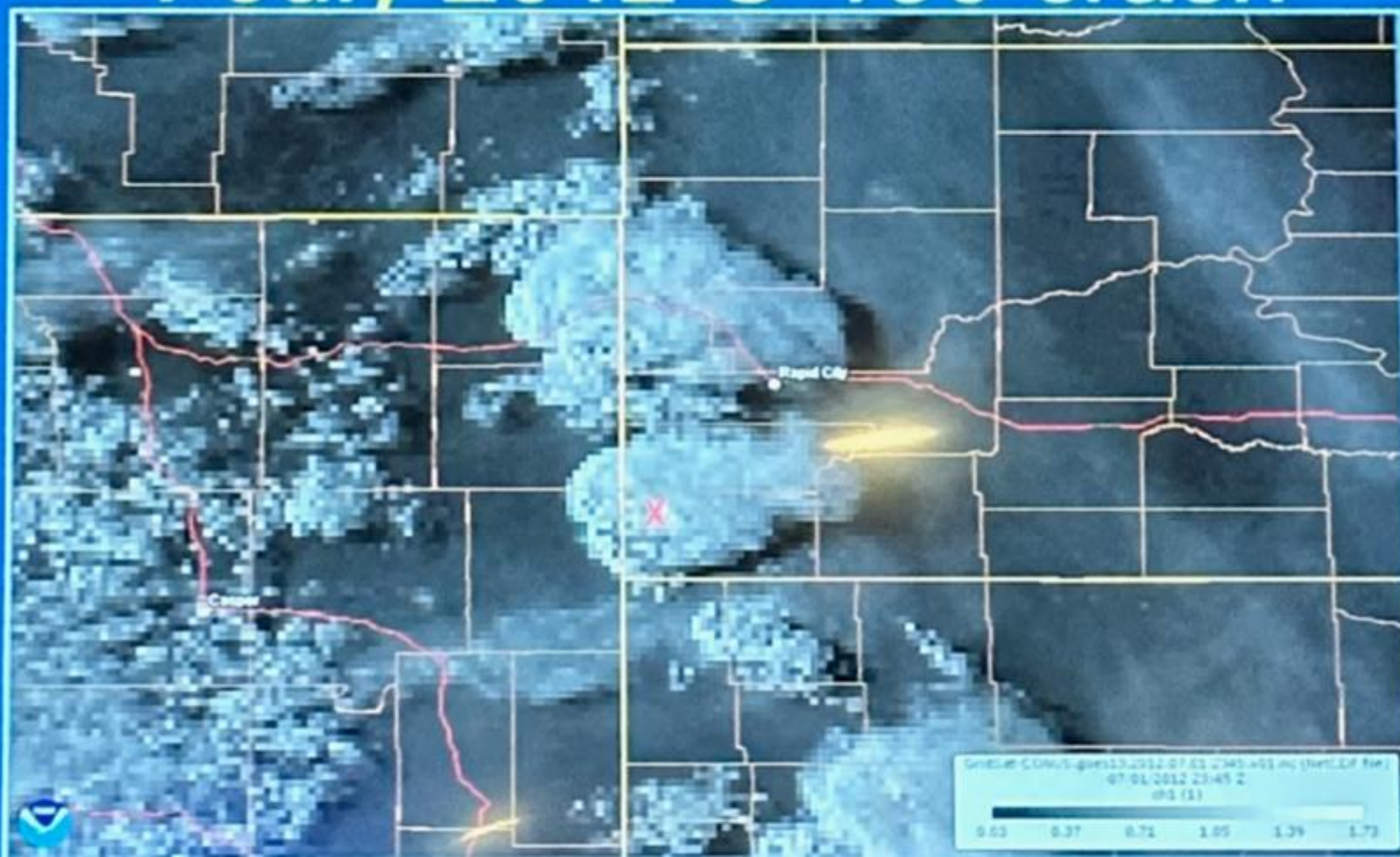


1 July 2012 C-130 crash

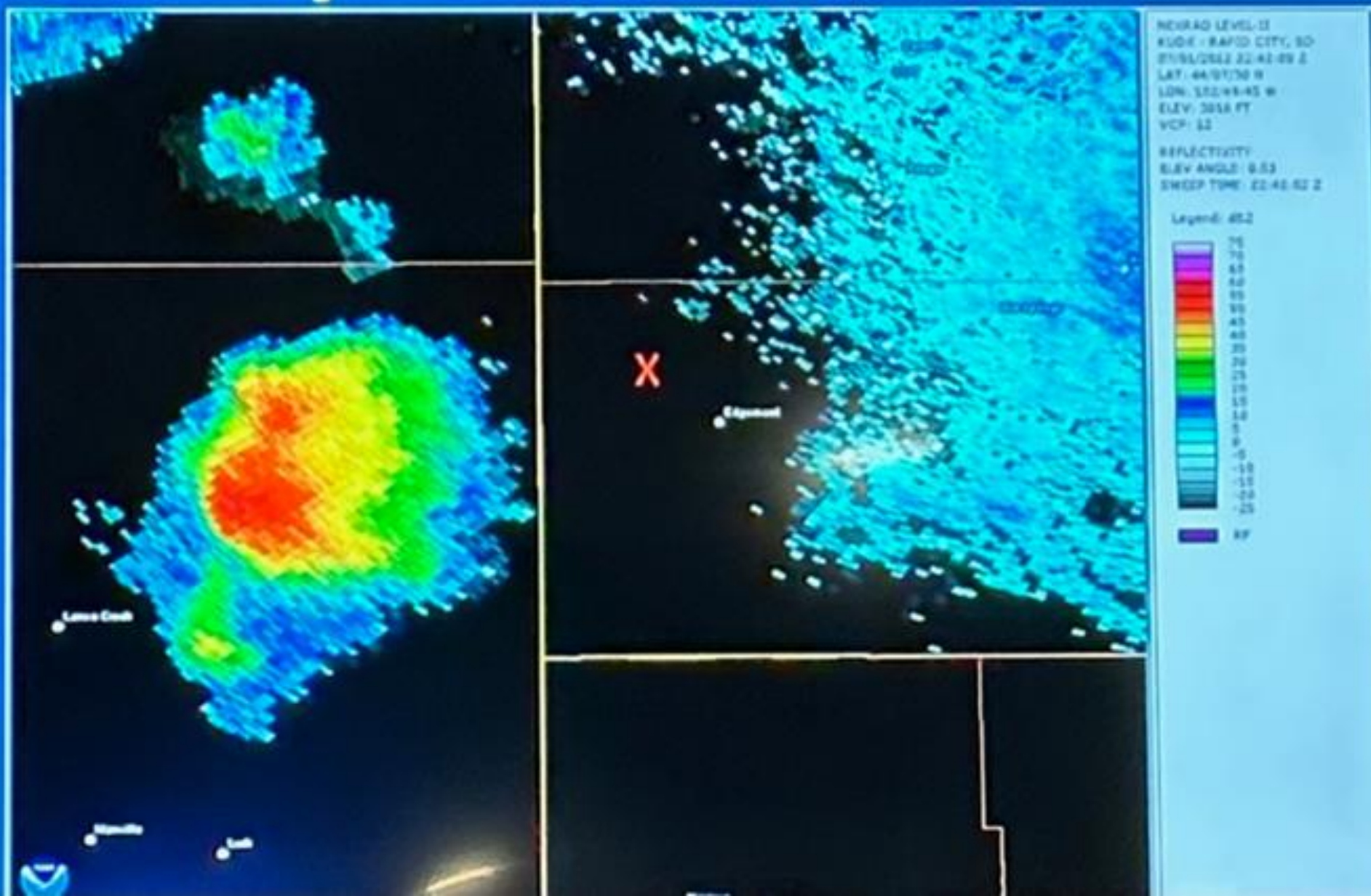
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1 July 2012 C-130 crash



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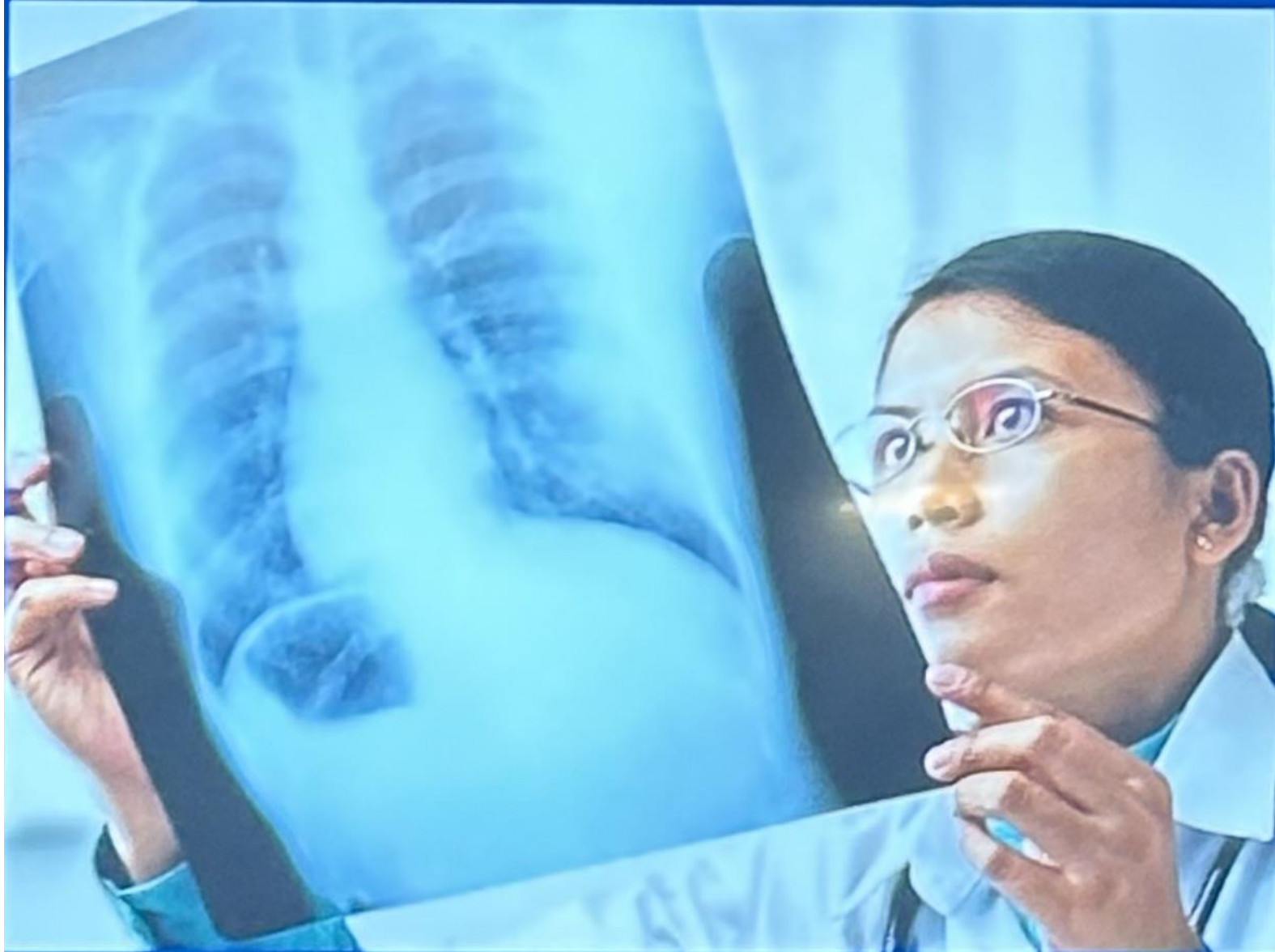


Early 2012 - 100 Grad




Plane flew ahead of main storm but under the #1


DIY Weather






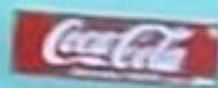
DIY weather: timeanddate.com







timeanddate



Spring REWARDS



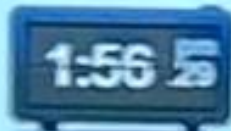
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Current Time

Wednesday
Mar 8, 2023
Rapid City, South Dakota, USA
[Set home location](#)



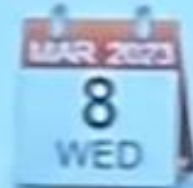
Time Zones

- Time Zone Map
- Time Announcer
- Time Zone Converter
- Meeting Planner
Find the Best Time across time zones
- Time Zone Abbreviations

[Distance Calculator](#)

Calendar


☒ Full year 2023
☐ Month March
United States
[View calendar](#)



[Printable PDF Calendar](#) | [Add Events](#)

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World Clock



Calculators & Timers

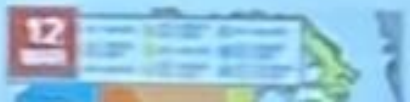
- Date-to-Date Calculator
- What Date is it in X Days?

[In the News](#) [Holidays & Events](#) [Time Zone News](#) [Newsletter](#)

USA & Canada Start Daylight Saving 2023

Sunday, March 12, 2023

Daylight Saving Time (DST) starts in the USA and Canada on March 12, 2023. At 2:00 AM local time, clocks are moved forward by one hour.



DIY weather: Cross-check



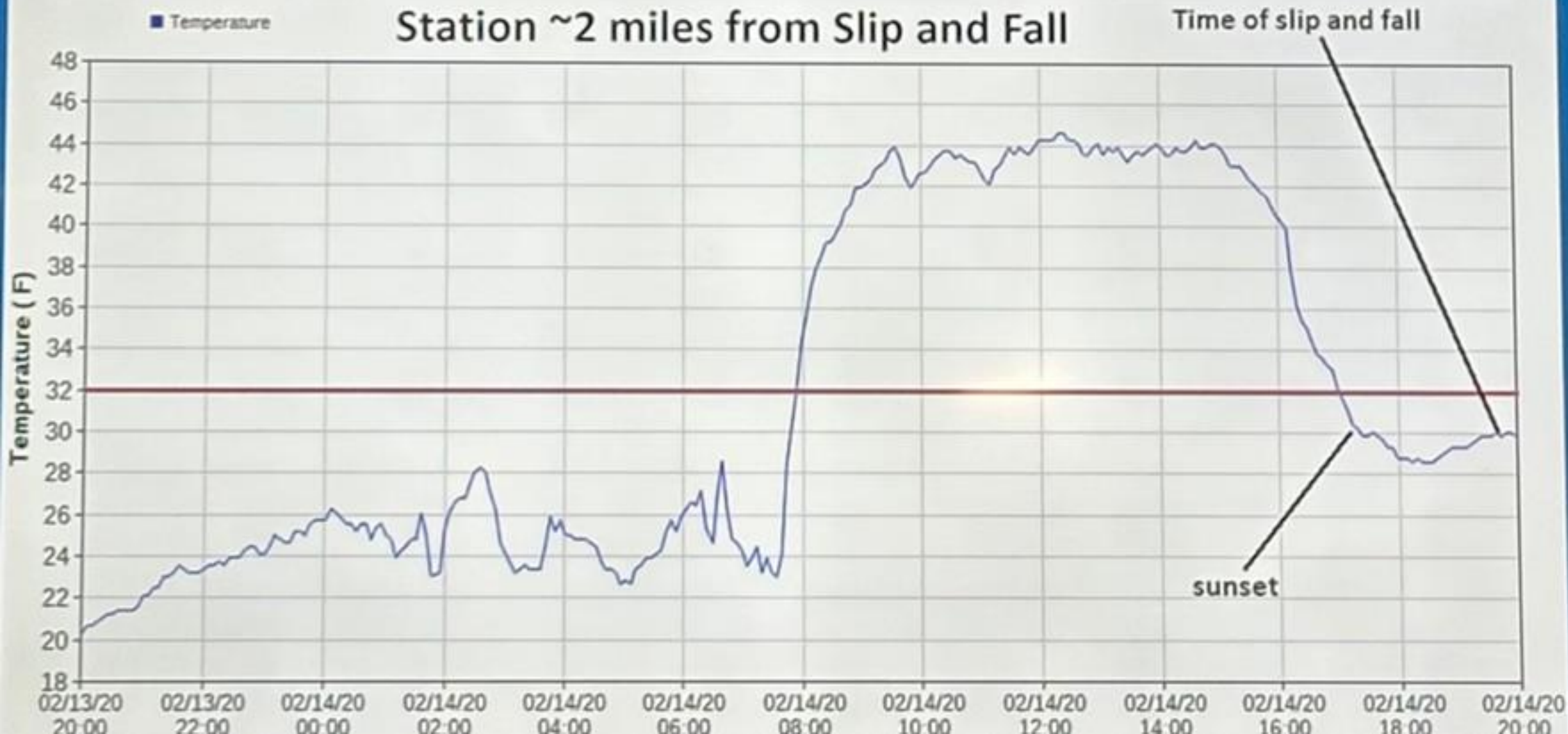
Tornado Damage (for plaintiff)



Tornado Damage (for plaintiff)



DIY weather: Cross-check



Tornado Damage (for plaintiff)

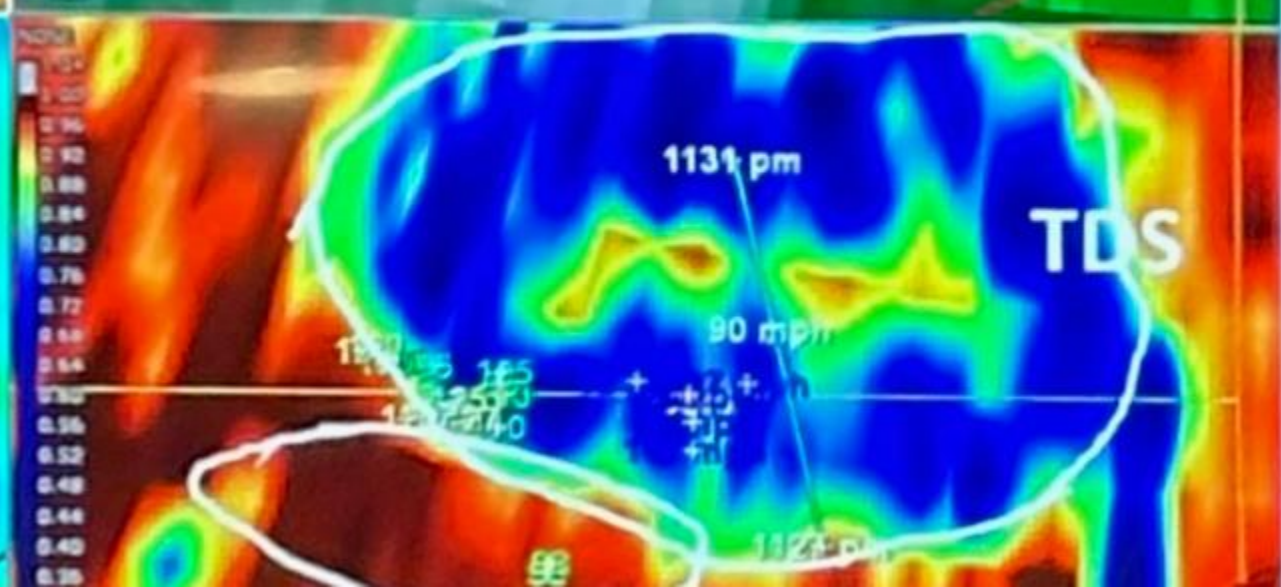
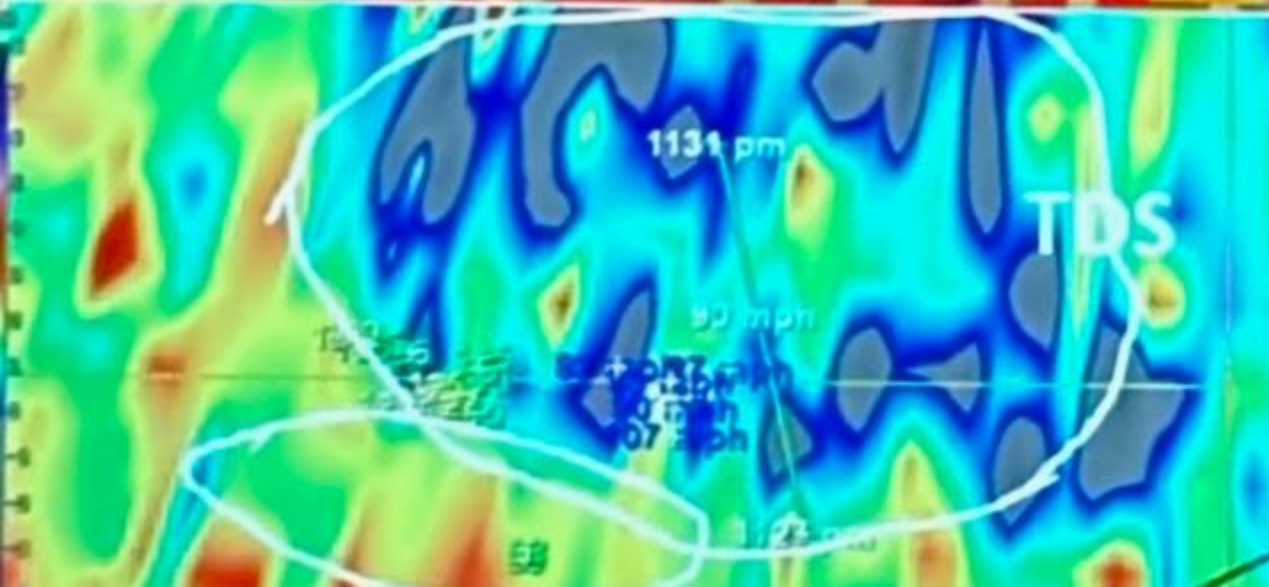
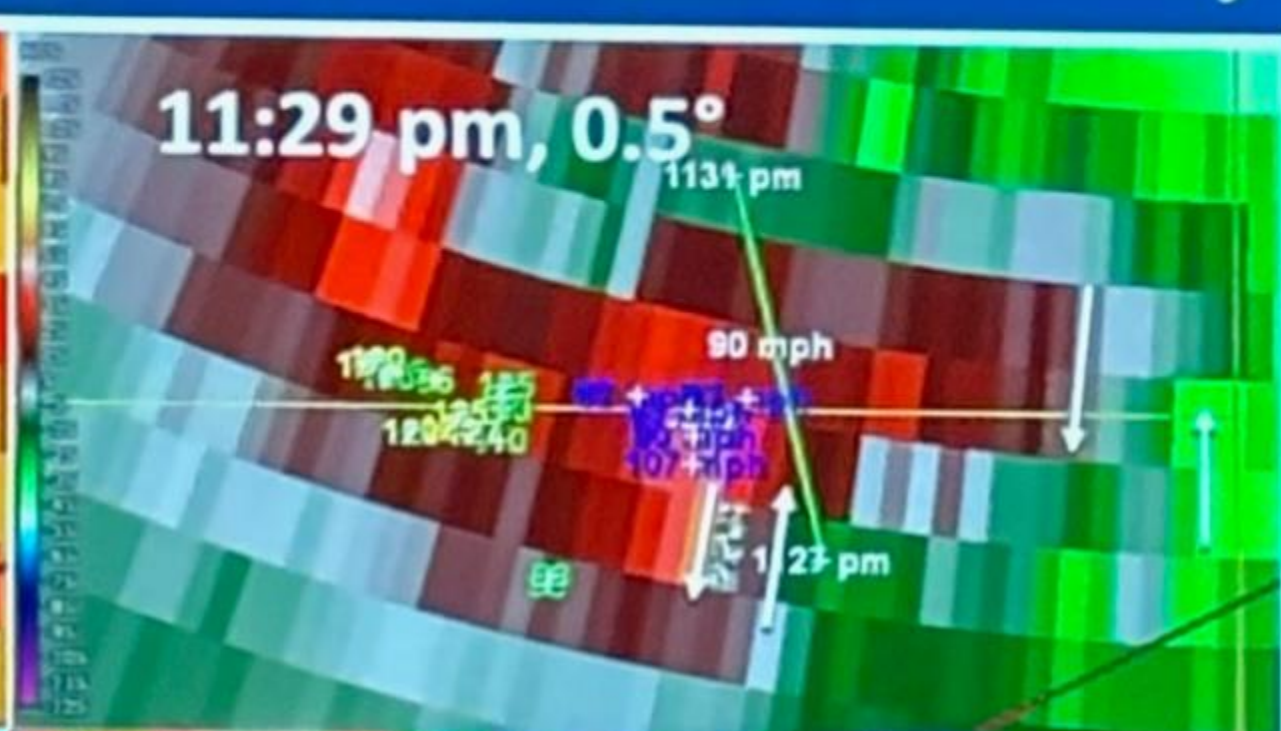
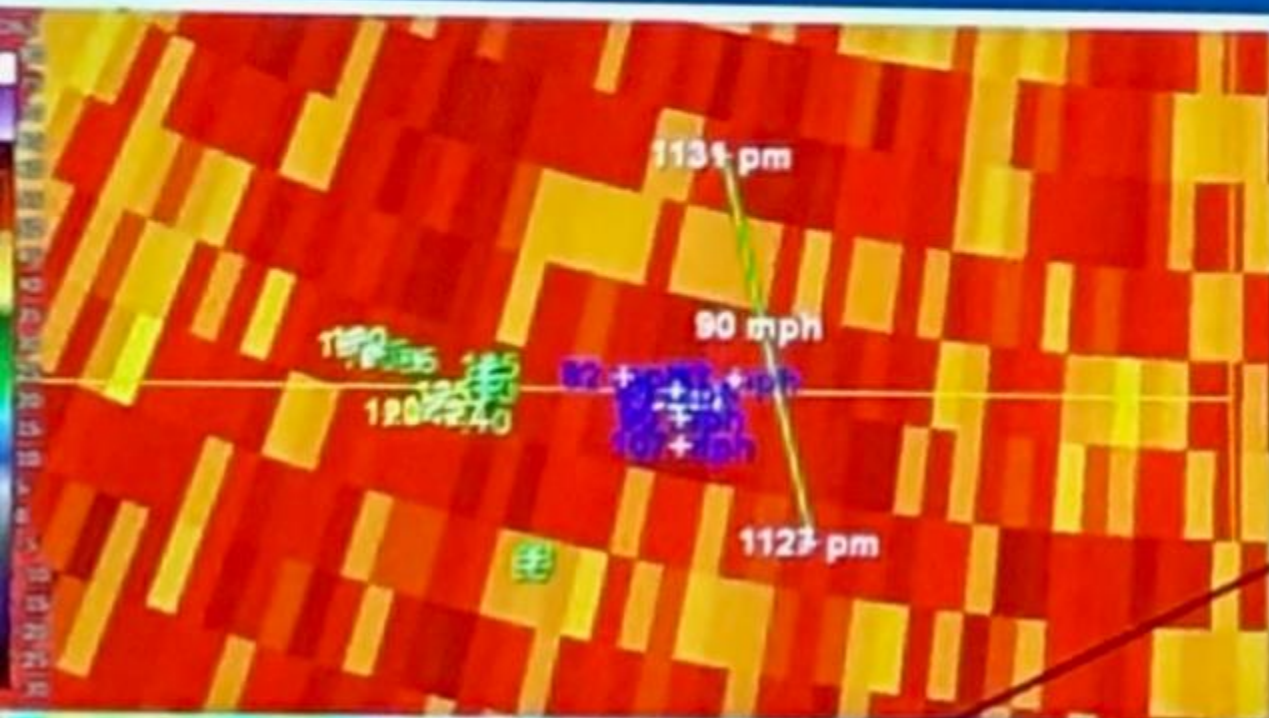
- A tornado occurred near a business in Sioux Falls based on official NWS damage survey
- Other reports of damage available around the business area
- Questions: How strong were the winds and was there a tornado?



Tornado Damage (for plaintiff)



Tornado Damage (for plaintiff)



Tornado Damage (for plaintiff)



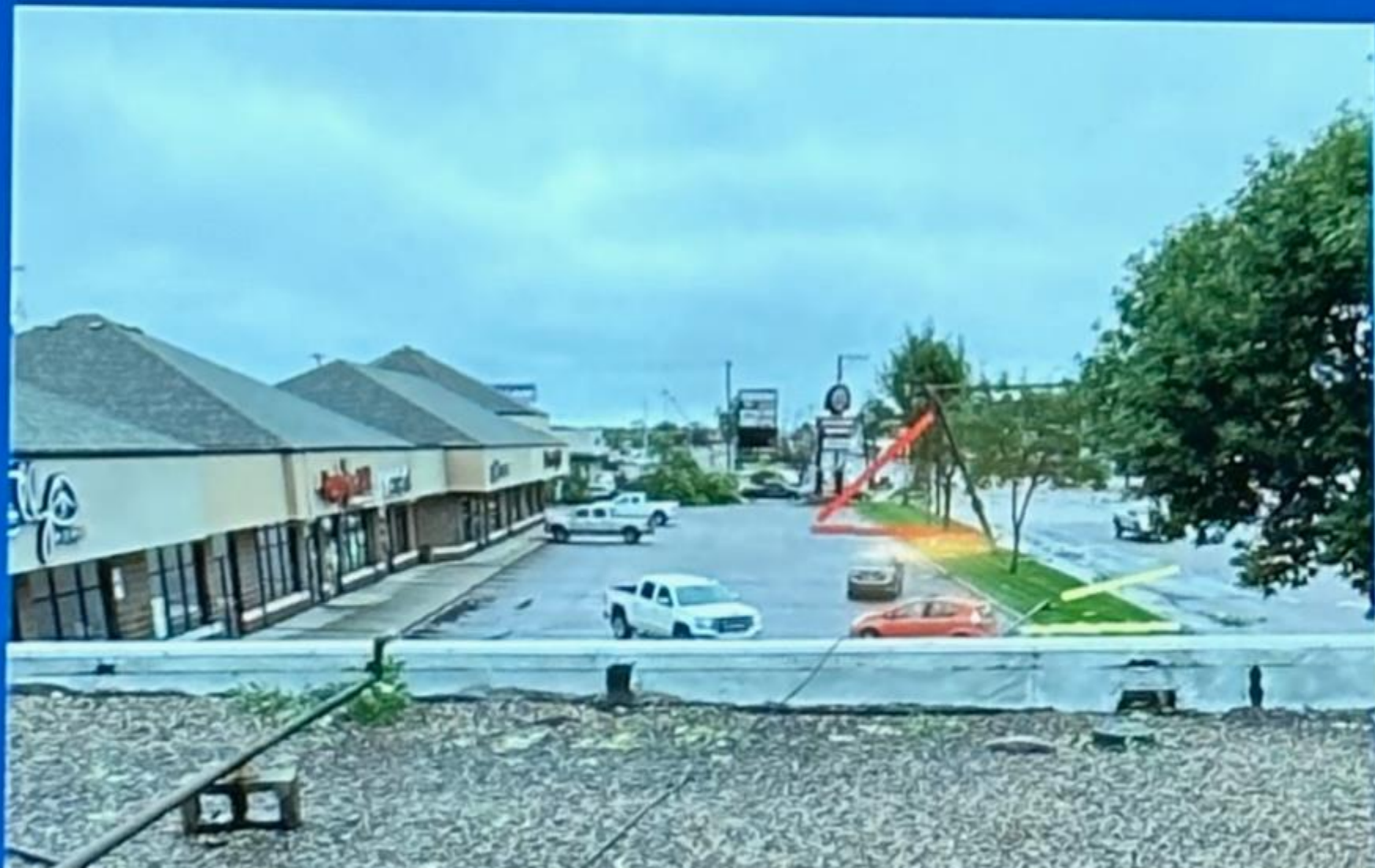
Tornado Damage (for plaintiff)



Tornado Damage (for plaintiff)



Tornado Damage (for plaintiff)



Tornado Damage (for plaintiff)



Tornado Damage (for plaintiff)



Tornado Damage (for plaintiff)

- 85% confidence of 90 mph winds, with damaged power poles suggesting 98-99 mph at the building location
- Evidence of a small tornado that tracked north very near the building based on pictures of storm damage
- Case settled shortly after I issued my report

Northern Plains Weather Services, LLC

Introduction

SERVING YOUR WEATHER-RELATED BUSINESS AND LEGAL CONSULTING MATTERS SINCE 2017

- Consulting Services Provided
- Qualifications & Education
- Past Cases & Testimonials
- About Northern Plains Weather
- Documents (protected)

Matthew J. Bunkers, Ph.D.

Certified Consulting Meteorologist

Email: nrnplnsweather@gmail.com

Phone: 605.390.7243 (mobile)

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Motivation, Experience, and Specialties:

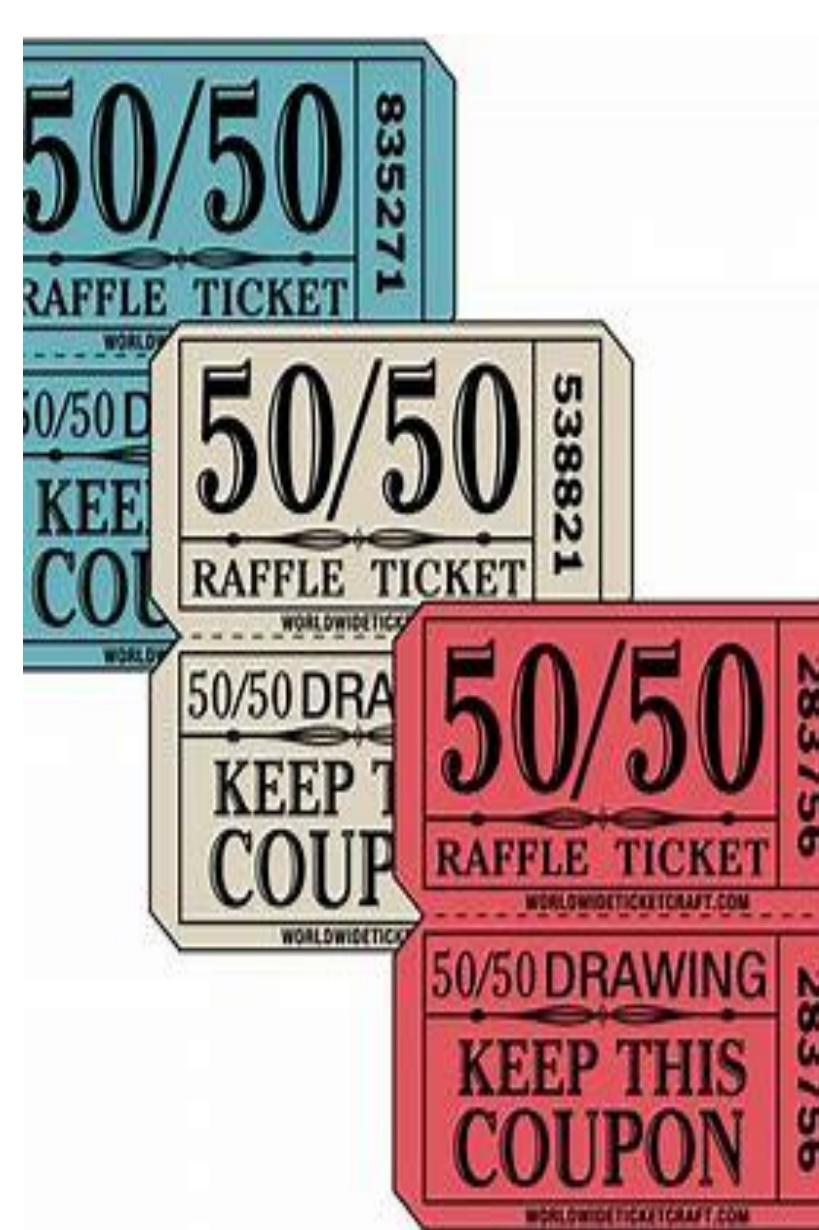
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Search

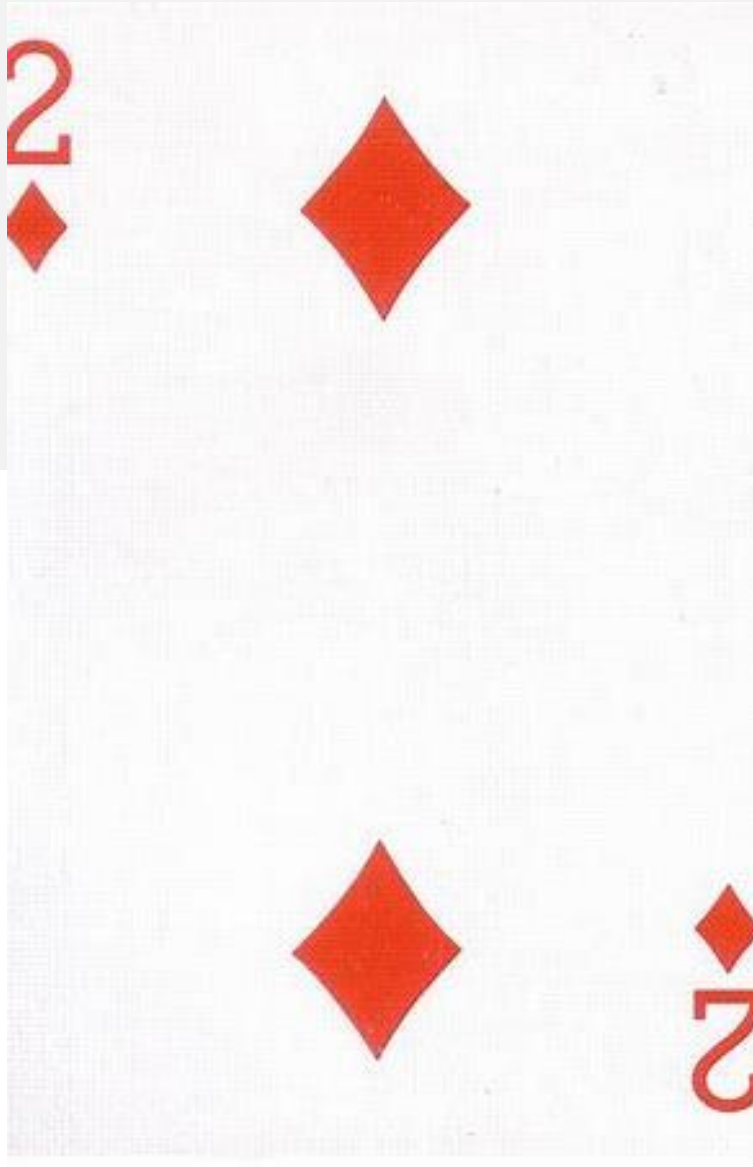


Paul Phelan was the Lucky Mr. X for the day. He won \$5.00 Dollars and gave it back to the Club.





Cleon Diers was the lucky 50-50 Winner. He won \$10.00 Dollars. He gave it back to the Club.



Jim Preston was the Lucky 2 of Diamonds Winner. He drew the 9 of Spades. There were 43 Cards left and it was worth \$100 Dollars.

Upcoming Cosmopolitan Meetings

July 31, 2023. No Meeting International Convention

August 7, 2023. No Meeting- Sturgis Rally

Member Birthdays

Name

Daughters, Deb
Petersen, Lyndell
Keck, Jr., Jim
Locke, Clay
Preston, Jim
Trautman, Nancy

Date

July 2
July 4
July 17
July 17
July 27
July 28



Date Joined RC Cosmopolitan Club

Anniversaries for June

<u>Name</u>	<u>Years</u>	<u>Date</u>
<i>Petersen, Lyndell</i>	<i>60 years</i>	<i>Jul 29 1963</i>
<i>Preston, Jim</i>	<i>27 years</i>	<i>Jul 15 1996</i>



Cosmo Ushering Event Coordinators

- Please e-mail or call the team in charge to sign up for the event or if you need to cancel
- Becky Kerr – Theater barefootbecky3209@gmail.com
(C) (605) 391-8738
- Rod Gunn – Ice Arena rgunn@rap.midco.net (C) (605)-381-3235..
- Gloria Gunn - Summer Nights grgunn@rap.midco.net (C) (605) 381-7075
- Jim and Arletta Schuh – Summit and Barnett Arena gymshoe122964@gmail.com
(H) (605)-343-7998 (C) (505)-391-8664
- Rod Gunn – Club's Website <https://portal.clubrunner.co/101337>
- Rhonda Reuwsaat-Facebook Coordinator **RC Cosmopolitan Club**
_© (605)-209--615

Rapid City Cosmopolitan Club President



Rapid City Cosmopolitan Club President

- **Chuck Reuwsaat**
- **PO Box 994**
- **Rapid City, South Dakota
57709**

North Central Federation Governor



- North Central Federation Governor
- *Melvina Neuman*
- *P. O. Box 394 Sioux Falls, SD 57010*
- *melvinanew@aol.com*

North Central Federation Governor Elect



North Central Federation Governor Elect

- **Nancy Trautman**
- **PO Box 994**
- **Rapid City, South Dakota
57709**

International President Randy Wright



It is vital that you as members of Cosmopolitan International know that your voices are being heard.

All of the International officers and your Federation Governors understand and appreciate your frustration with a number of things including the lack of communication from International, sub-par training for those in leadership positions, difficulties navigating the new website platform, low attendance at Federation and International conventions, lack of brand awareness, lack of structure, and numerous inconsistencies in many areas.

We get it.

International Officers

International President – Randy Wright, Norfolk Club

President-Elect – Dick Gorton, Omaha Cornhusker Club

VP of Finance – Keith Shepherd, Regina Club

VP of Membership – Tim Dollens, Columbia Luncheon & Breakfast Clubs

VP of Marketing and Fundraising – Sheila Anderson, Sioux Falls Evening Club

Judge Advocate – Jim McVay, Omaha Cornhusker Club

Capital Federation Governor – Perry Johnson, Norfolk Club

Cornbelt Federation Governor – Gery Whalen, Omaha I-80 Club

Mid-States Federation Governor – LaVonne Hawking, Aurora Club

Mo-Kan Federation Governor – Dayton Shepherd, Columbia Show-Me & St. Charles County Clubs

North Central Federation Governor – Melvina Newman, Sioux Falls Noon Club

Western Canada Federation Governor – John Krysak, Wascana Club

2022-2023 President's Award

- ***President Randy has announced the criteria for this year's President's Award! A bannerette will be awarded at the International Convention in Norfolk, VA, to each Club that meets all the following criteria in the 2022-2023 fiscal year:***



2022-2023 **PRESIDENT'S AWARD**

A bannerette will be awarded at the International Convention to each Club that meets all of the following criteria in the 2022-2023 fiscal year:

1. Hold at least 1 fundraising event.
2. Submit at least 1 article to COSMOTopics.
3. Submit at least 1 award winner from their Club to the Federation level.
4. Increase their club membership by at least 10%.

