Total Eclipse Weather Briefing

April 3, 2024
10:30 AM

Decision Support Briefing

➔ As of 10:30 AM Wednesday, April 3, 2023



NEW Important Updates

- Confidence in the weather pattern is slowly increasing for April 8th.
- Clouds and rain chances are in the forecast for April 8th….but still time for the forecast to change.

This briefing is being recorded and a copy of the slides along with a recording will be emailed out shortly afterwards.

Schedule of Eclipse Briefings

April 3, 2024
10:30 AM

APRIL

SUN	MON	TUE	WED	THU	FRI	SAT
31	1 X 1030 AM CDT	2 X 1030 AM CDT	3 1030 AM CDT	4 1030 AM CDT	5 1030 AM CDT 230 PM CDT	6 1030 AM CDT 230 PM CDT
7 1030 AM CDT 230 PM CDT	8 ECLIPSE 900 AM CDT	9	10	11	12	13

Webinar Times in Red

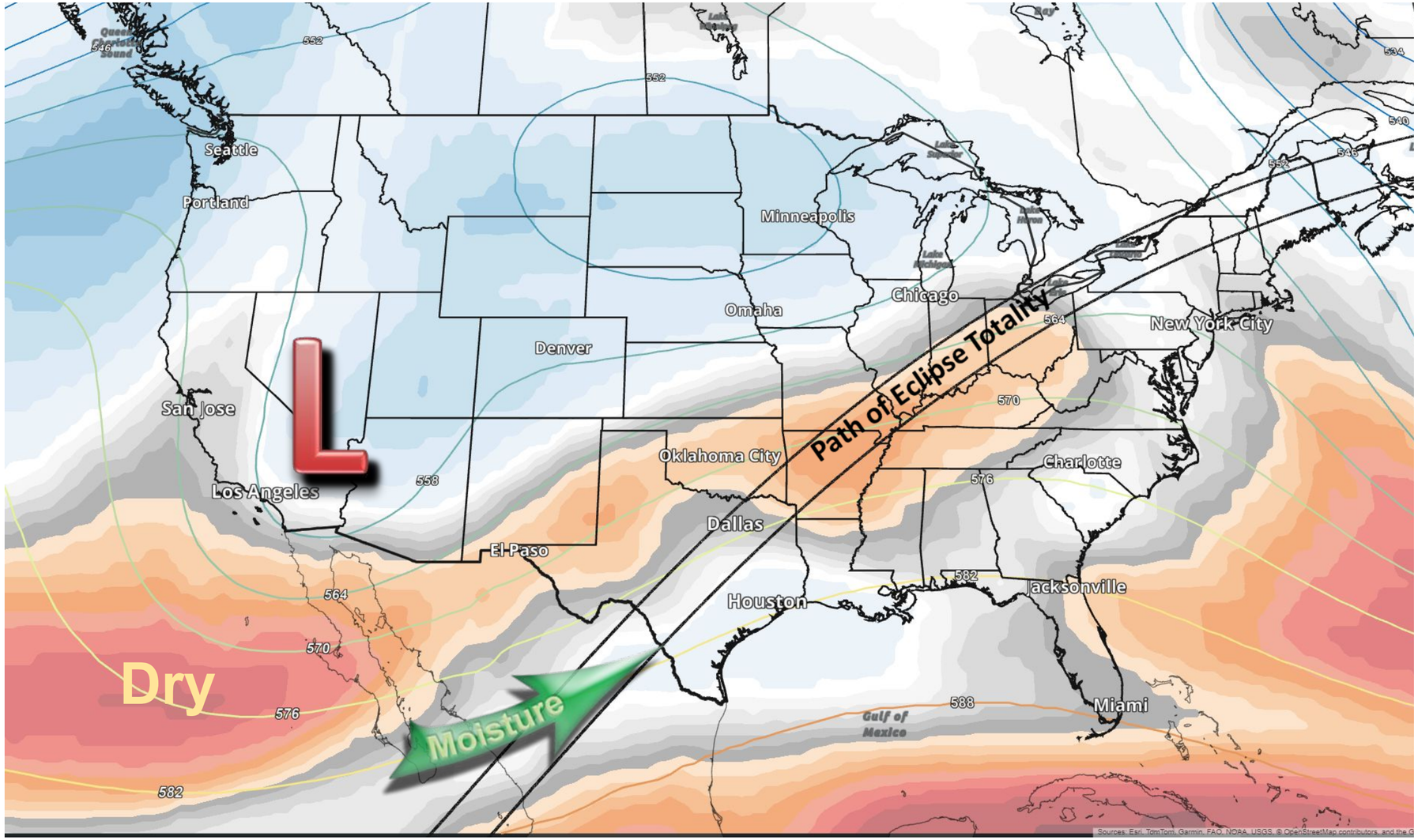
Weather - Main Points

April 3, 2024
10:30 AM

- The forecast shows a weather pattern over the weekend and on April 8th that is generally favorable for cloud cover and possible rain chances.
- However, there is still uncertainty in details on two main features that will influence where exactly the cloud cover and rain chances end up across Texas.
- Cloud cover forecasts even at 5 days out are difficult to predict, especially over an eclipse window of only a few hours. Expect fluctuations in cloud cover forecasts over the next few days.
- In Spring the forecast can change quickly. We will continue to fine-tune the forecast of cloud cover and the timing of rain/storm chances.
- High temperatures over the weekend and on April 8th are forecast to be in the 80s with lows in the 50s and 60s.

Upper Level Pattern Taking Shape for April 8

April 3, 2024
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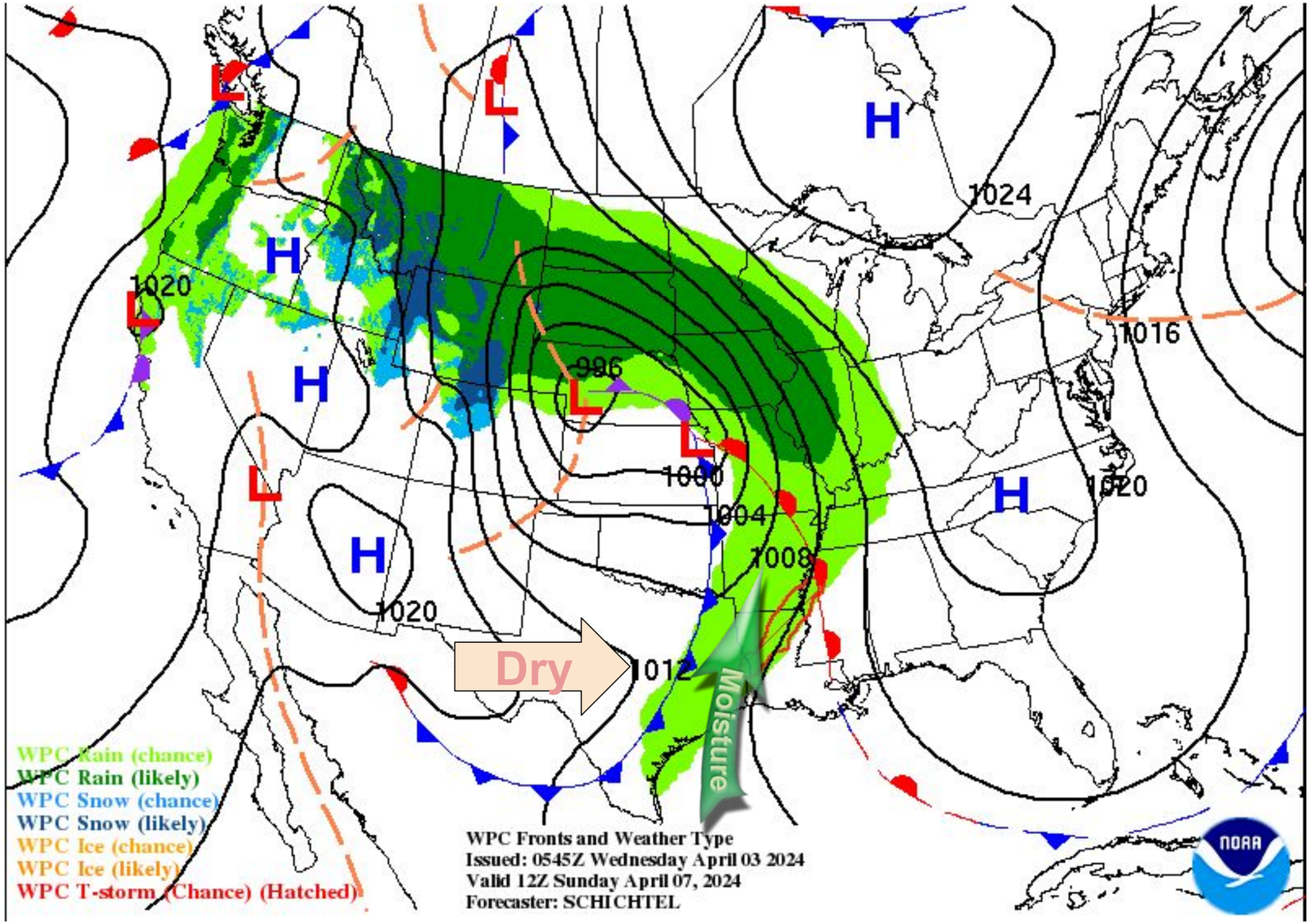
Upper level low across the southwest U.S.

- This can bring high cirrus clouds out of the Pacific
- Where exactly this band of high cirrus clouds sets up is still uncertain, but models are favoring southern and eastern areas of Texas
- How translucent the cirrus clouds will be in question - models trending with thicker high clouds

Lower Level Pattern Taking Shape for April 7-9

April 3, 2024
10:30 AM

Sunday - April 7



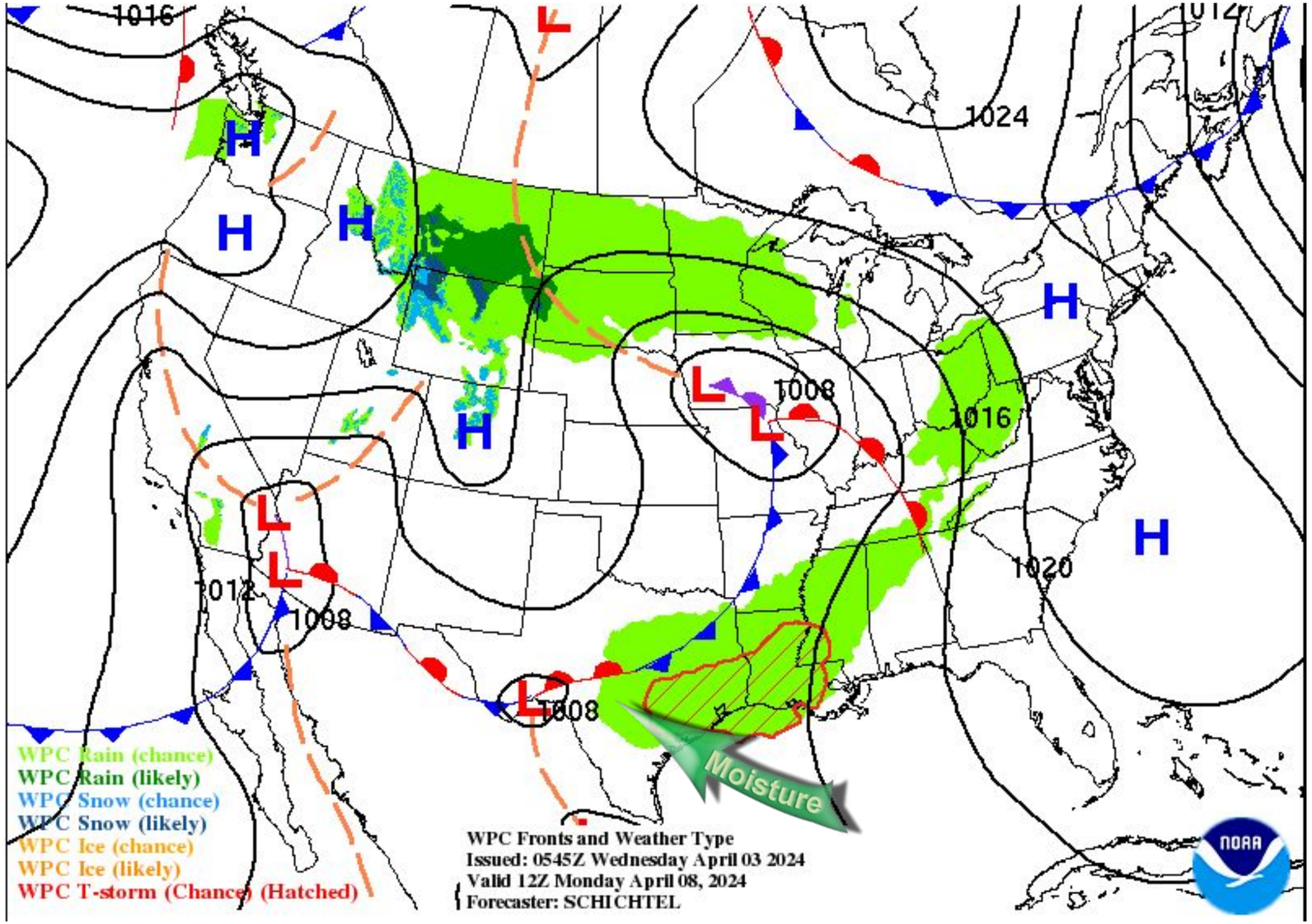
Weak Cold Front Early Sunday

- This will bring a low chance of showers and thunderstorms late Saturday night into early Sunday morning
- Drier air may temporarily move into the area Sunday afternoon
- How far the front make it southeast before washing out is uncertain, but models are favoring a weak cold front

Lower Level Pattern Taking Shape for April 7-9

April 3, 2024
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Monday - April 8



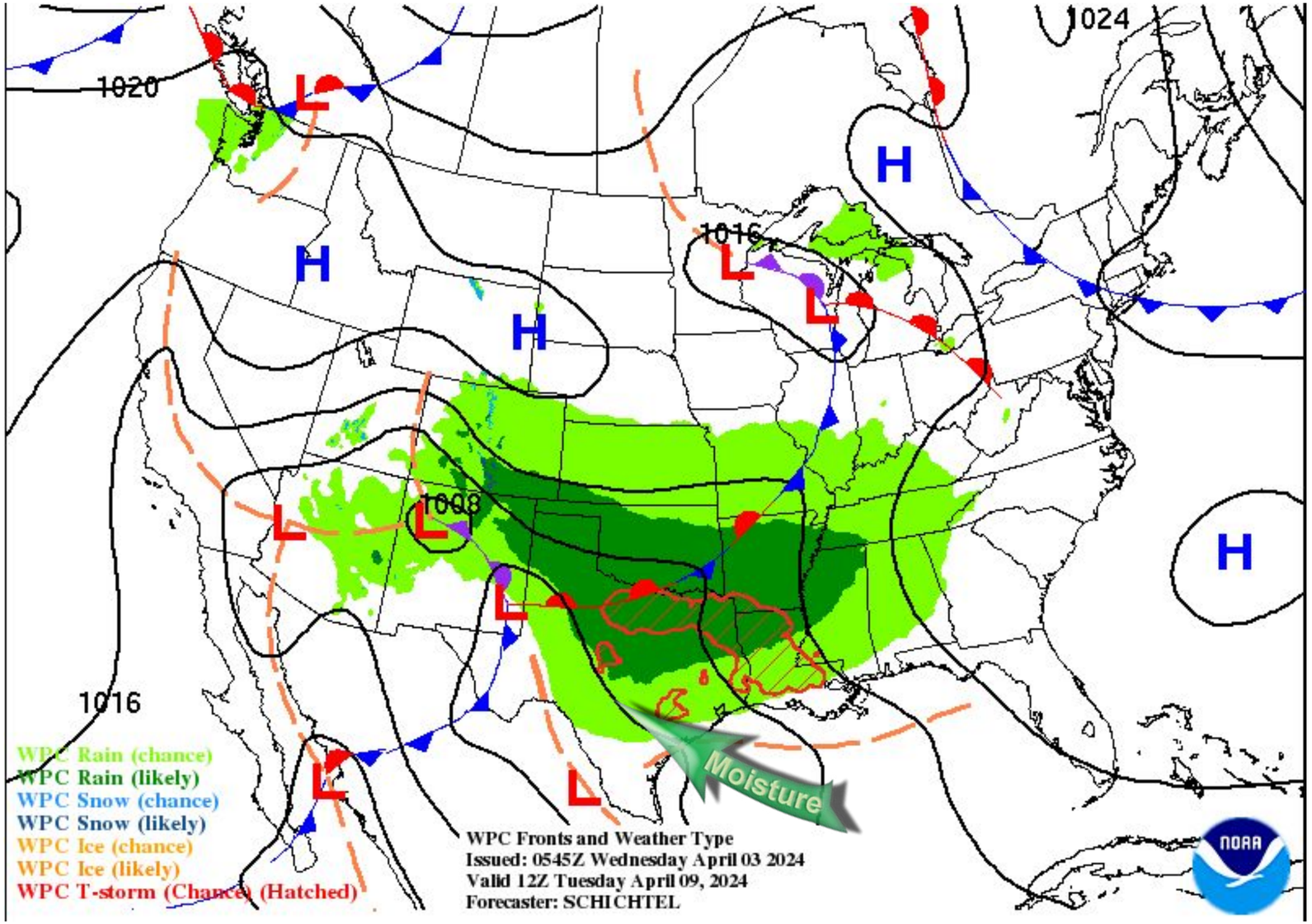
Front Lifts Back North Sunday Night through Monday

- How quickly and widespread the low cloud cover returns is uncertain
- Low chance for showers when they return
- Will be watching trends in the models over the coming days
- Unless there are breaks or low clouds delayed, eclipse viewability would be low

Lower Level Pattern Taking Shape for April 7-9

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Tuesday - April 9

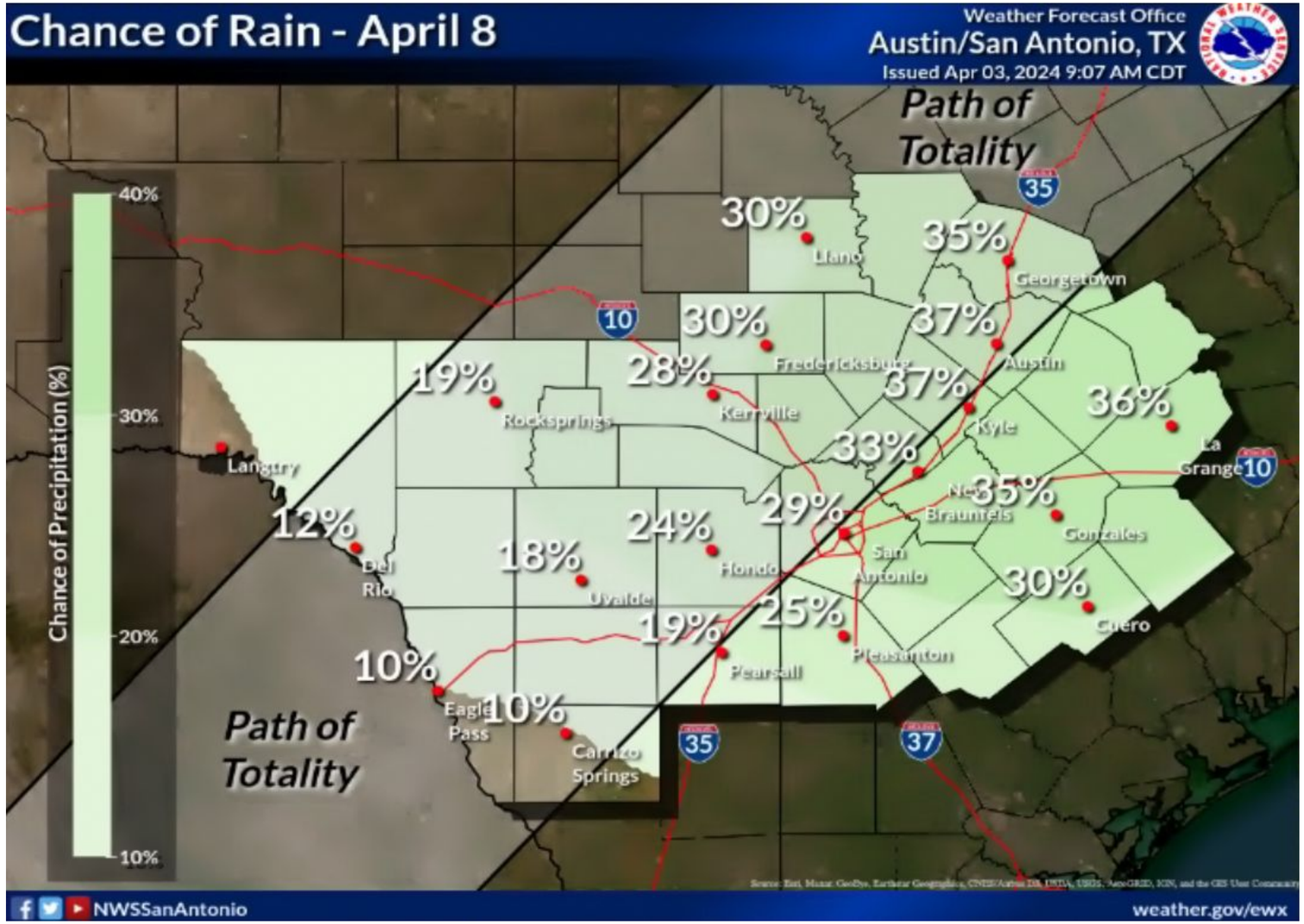


Pattern Becomes More Active Tuesday for Remaining Egress Concerns

- Next upper level system and front approach
- Chance for showers and storms Tue-Wed
- Potential for severe storms northeast of the region late Mon-Tue

Monday Chance of Rain

April 3, 2024
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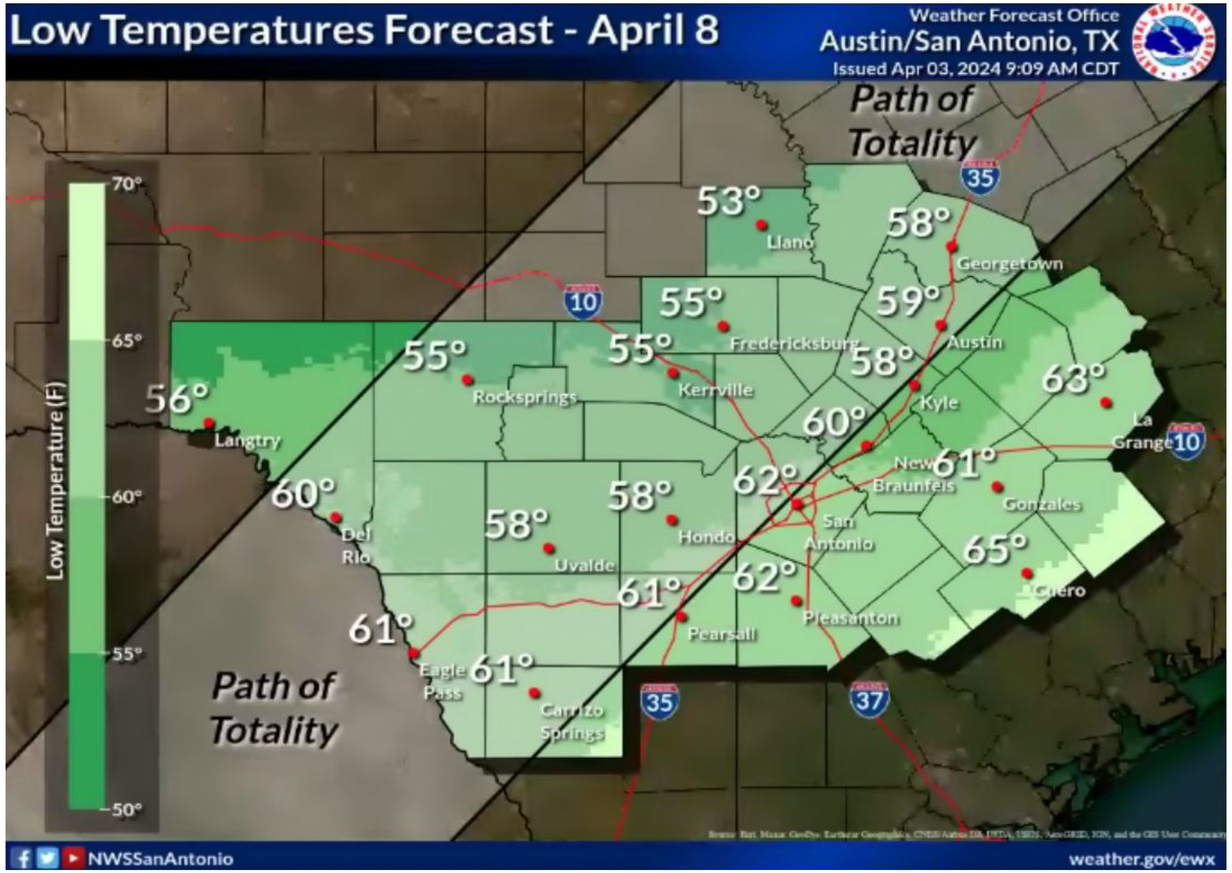


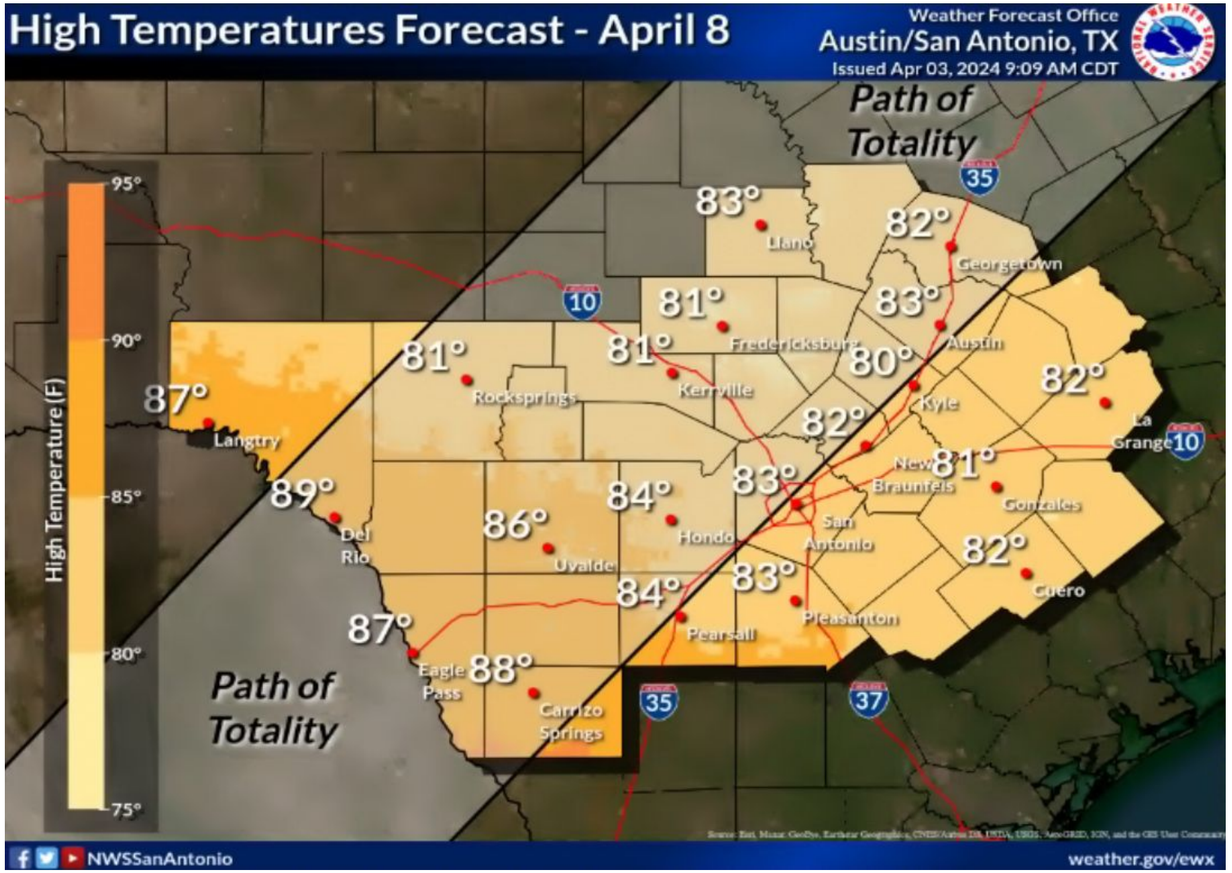
- Overall rain chances are low
- Could see some light shower activity in the morning, spread into the afternoon.
- Overall rain amounts appear to be low at this time

Low/High Temp Forecast Monday

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10:30 AM

NOTE: A temporary 5-10 deg F drop in temperatures is expected during eclipse totality.





If skies remain cloudy then low temperatures may be a few degrees warmer and high temperatures a few degrees cooler than what is shown here

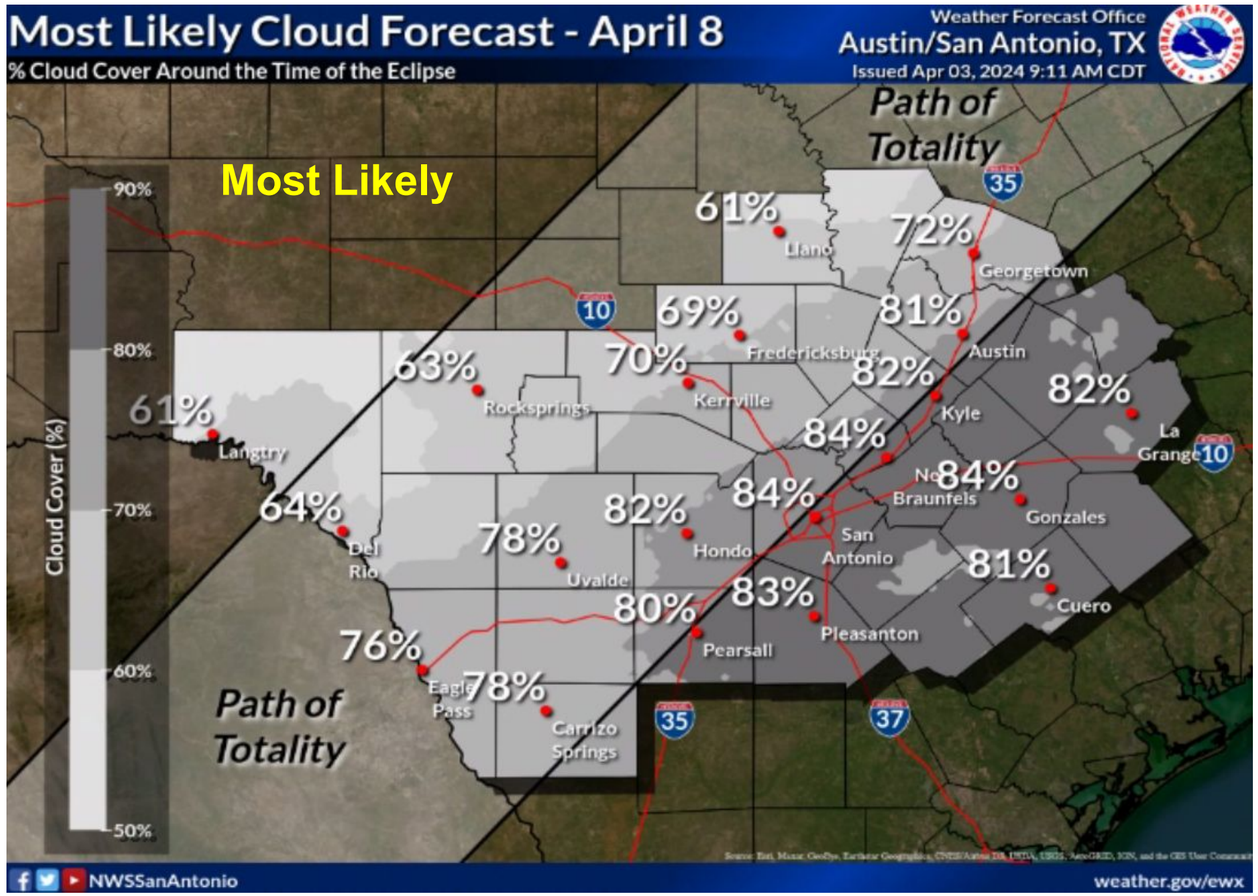
National Oceanic and Atmospheric Administration
U.S. Department of Commerce

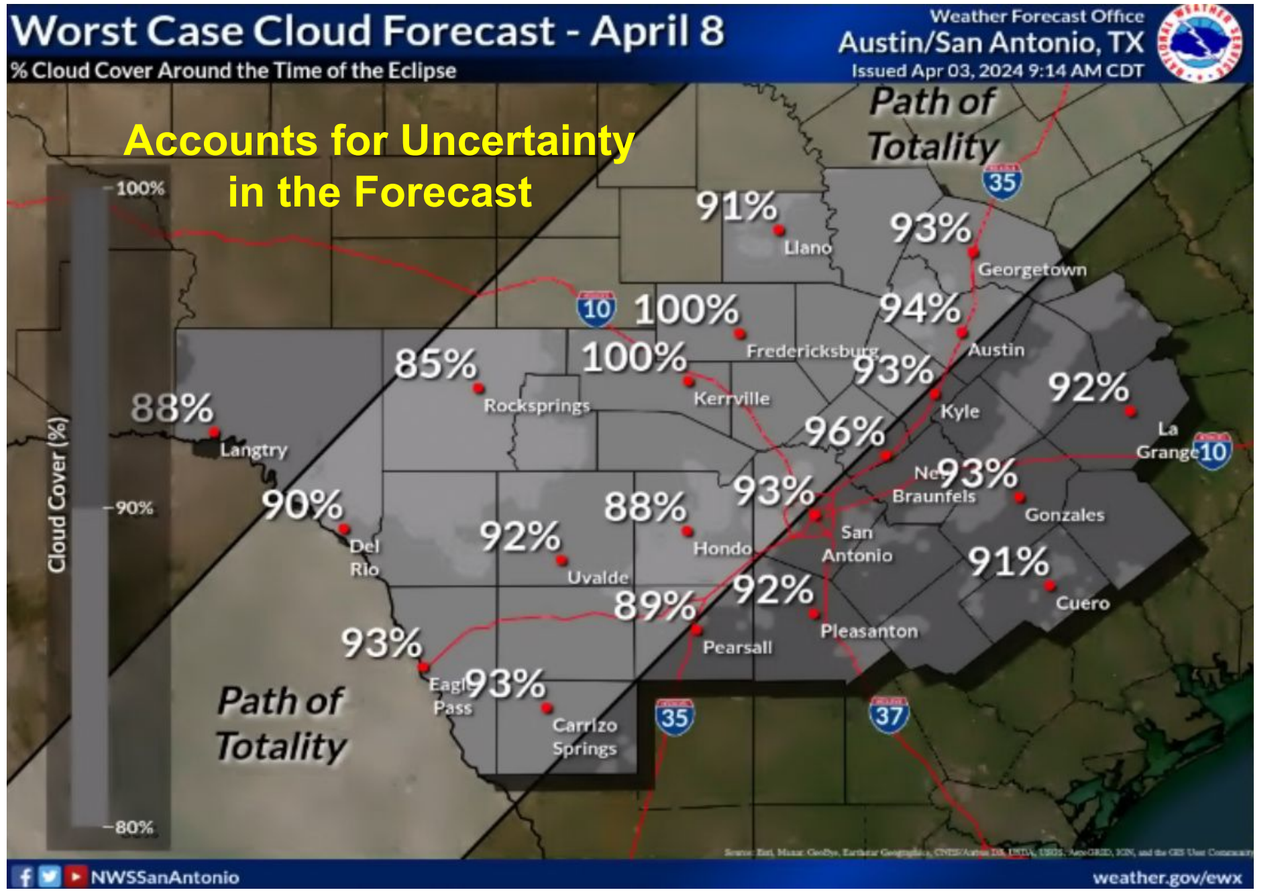
National Weather Service
Austin/San Antonio, TX

Forecast Scenarios

Early Afternoon - Monday, April 8th

April 3, 2024
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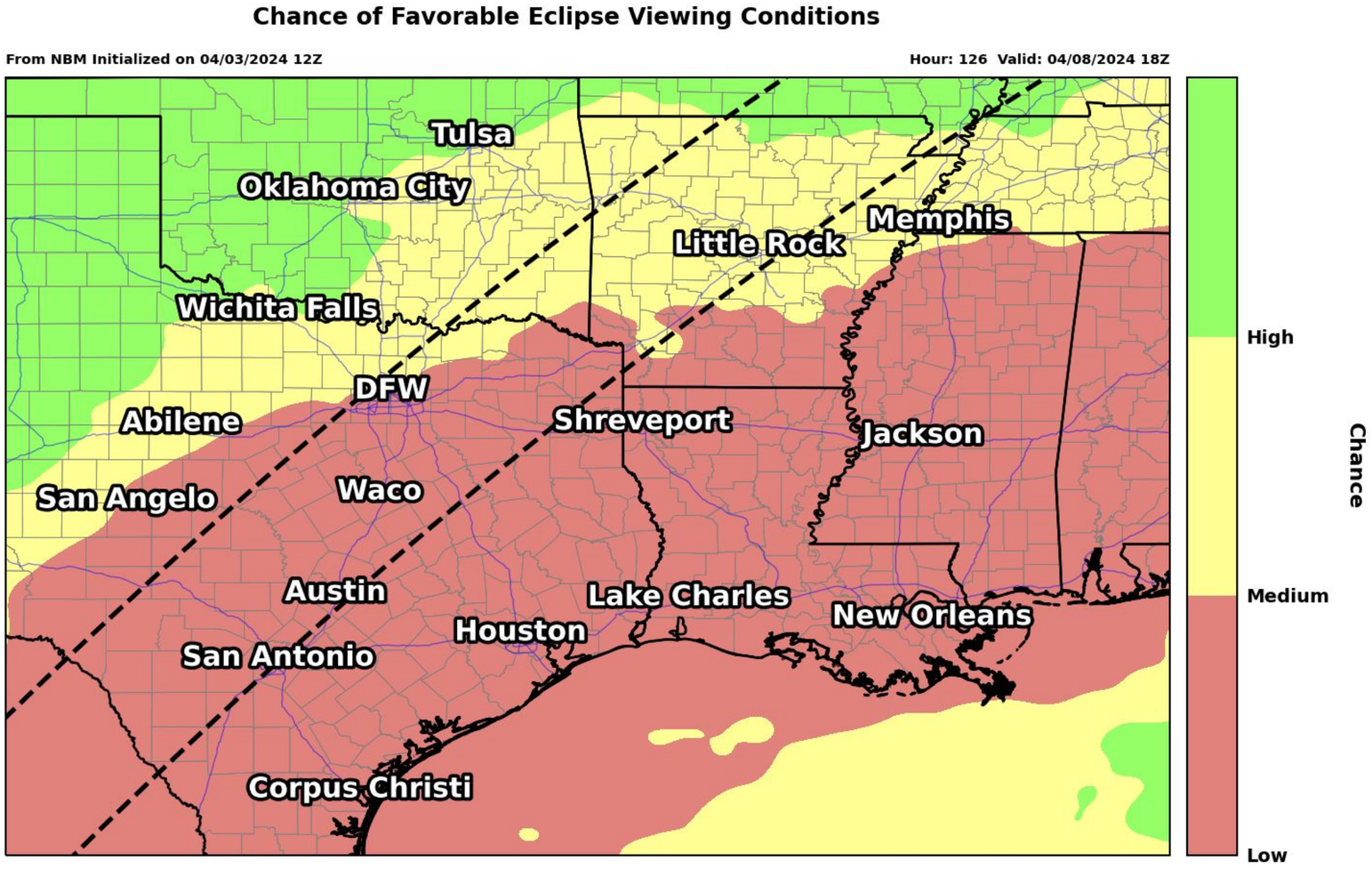


The cloud cover forecast is trending cloudier from the previous forecast

Cloud Cover Forecast Scenarios

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Early Afternoon - Monday, April 8th



Better chances for viewability increase as you head much farther northeast

Latest Hourly Point Forecasts

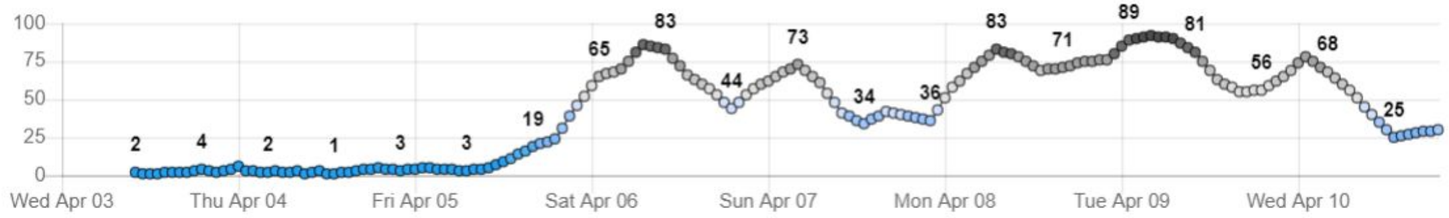
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Forecast Points website…Great way to see the local forecast from NWS

Hourly Table

Day of week:	Monday, April 8th																
Time:	7AM	8AM	9AM	10AM	11AM	12PM	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM
Weather:																	
Temperature (°F):	55	58	62	67	71	76	78	73	81	82	81	80	78	75	72	69	68
Heat Index, °F:	55	58	62	67	71	76	78	73	81	82	81	81	78	75	72	69	68
Wind Speed (mph):	8	8	8	9	10	13	14	15	15	15	15	15	15	15	15	15	15
Wind Gust (mph):	8	8	8	9	14	16	18	20	20	20	20	20	20	20	20	20	20
Wind Direction (°):	180	170	160	150	150	140	140	140	140	140	140	130	130	130	130	130	130
Wind Direction:																	
Prob. of Precip. (%):	9	9	9	9	9	9	28	28	28	28	28	28	25	25	25	25	25
Prob. of Thunder (%):	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precip. Amount (in.):				0.00					0.00							0.00	
Dew Point (°F):	51	53	55	56	57	58	58	58	58	58	58	58	59	60	62	63	64
RH (%):	86	83	78	68	61	54	51	59	46	44	46	47	52	60	71	81	87
Sky Cover (%):	83	81	80	78	75	72	69	70	70	71	72	74	75	75	76	76	80

Sky Cover, %



Example Above

www.weather.gov/forecastpoints

Note: Default location for this website is Duluth, MN. Adjust the location by clicking on the U.S. map

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

National Weather Service
Austin/San Antonio, TX

Select Hourly Point Forecasts - West

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Forecast Points website

Del Rio

Eagle Pass

Carrizo Springs

Bracketville

Uvalde

Hondo

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

National Weather Service
Austin/San Antonio, TX

Select Hourly Point Forecasts - Hill Country

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Forecast Points website

Rocksprings



Kerrville



Fredericksburg



Bandera



Johnson City



Llano



Select Hourly Point Forecasts - I-35 Corridor

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Forecast Points website

San Antonio

New Braunfels

San Marcos

Austin

Round Rock

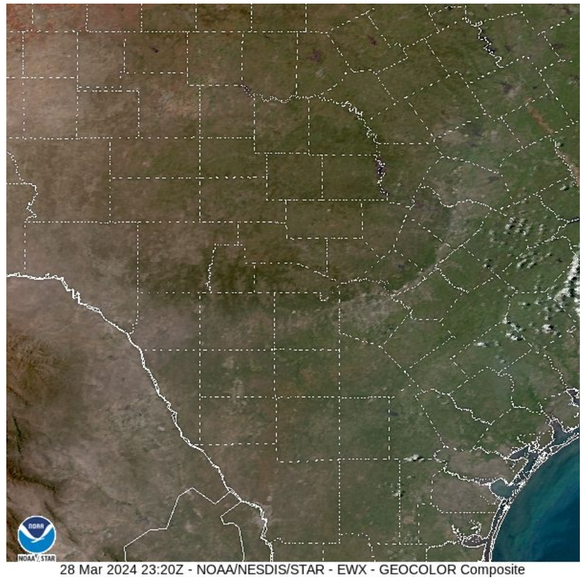
Georgetown

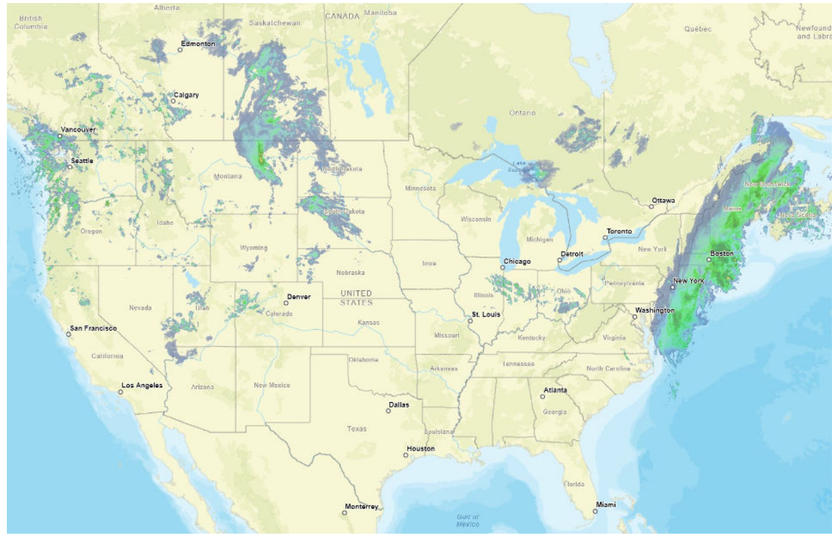
National Oceanic and Atmospheric Administration
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Latest Satellite and Radar Resources

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www.star.nesdis.noaa.gov/goes/wfo.php?wfo=ewx

radar.weather.gov

Examples Above Not Current

Summary

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- The forecast shows a weather pattern over the weekend and on April 8th that is generally favorable for cloud cover and possible rain chances, but there is still uncertainty in details.

- Cloud cover forecasts even at 5 days out are difficult to predict, especially over an eclipse window of only a few hours. Expect fluctuations in cloud cover forecasts over the next few days.

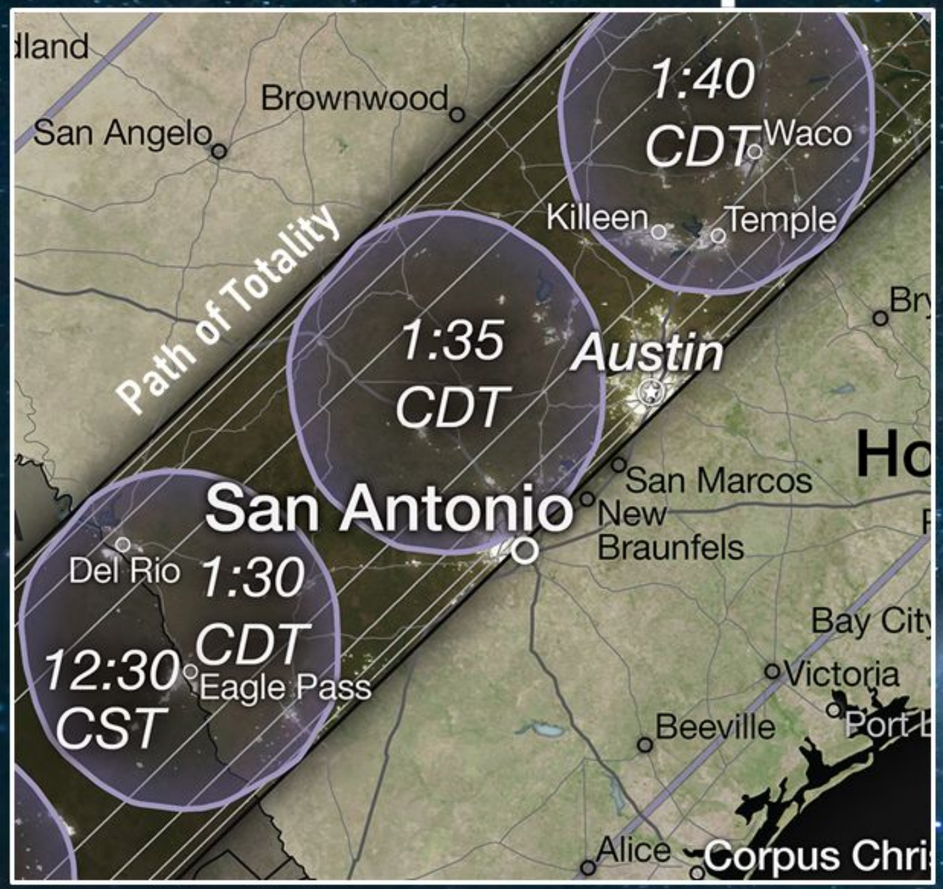
- In Spring the forecast can change quickly. We will continue to fine-tune the forecast of cloud cover and the timing of rain/storm chances.

- Current Confidence Levels:
  - Cloud Cover Forecast Eclipse Day: Medium
  - Storm Chances Eclipse Weekend and Eclipse Day: Medium
  - Precip Timing...Still to be determined.

Total Eclipse Weather Briefing

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Total Solar Eclipse – April 8, 2024



Occurs when the Moon passes between the Sun and Earth, completely blocking the face of the sun

Those in the path of totality will see the Sun's corona, or outer atmosphere, which is normally obscured by the bright face of the sun

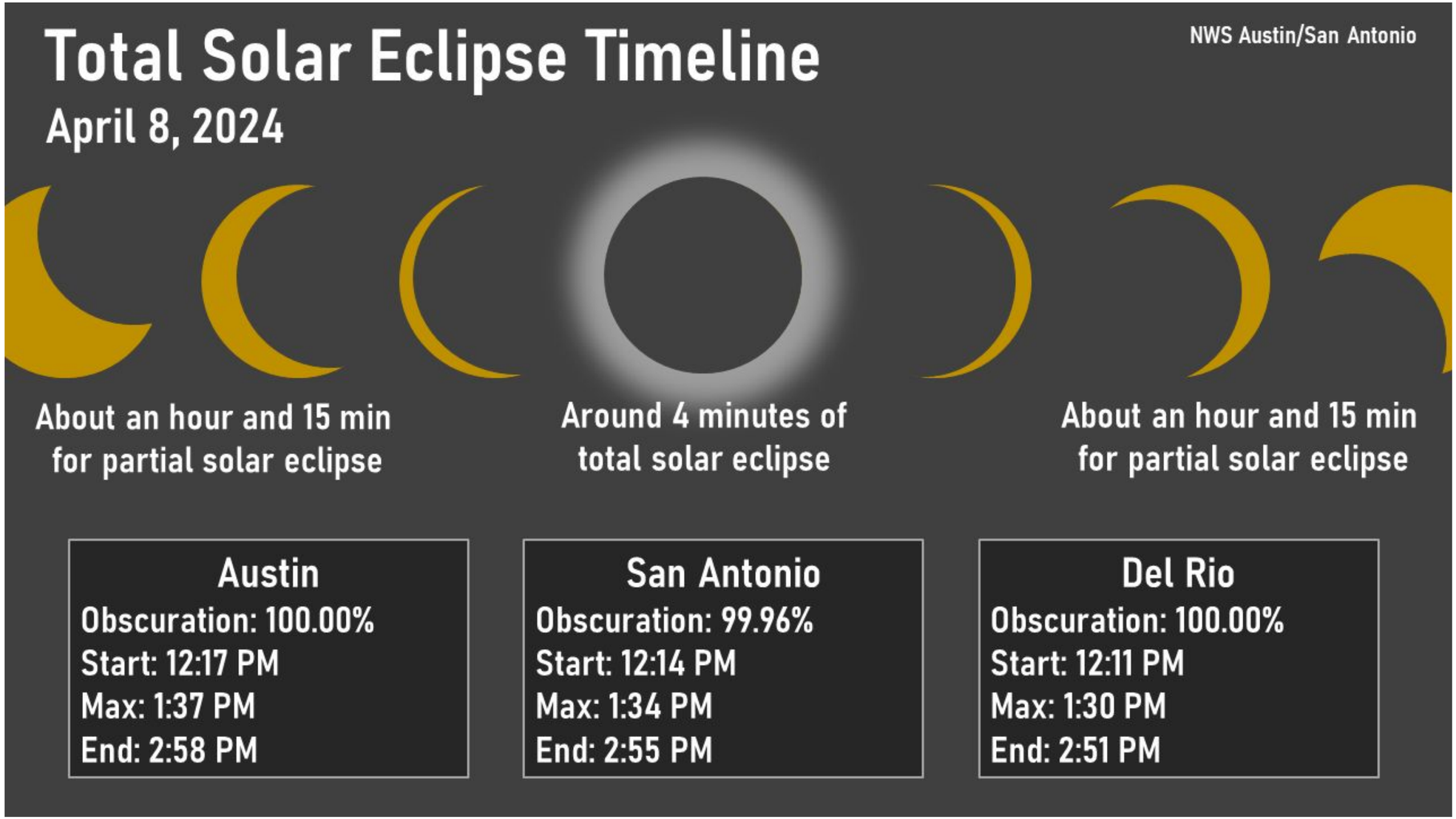
The path of totality will be about 115 miles wide, with totality lasting up to 4 minutes and 28 seconds depending on location

Map credit: NASA's Scientific Visualization Studio

NWS Austin/San Antonio

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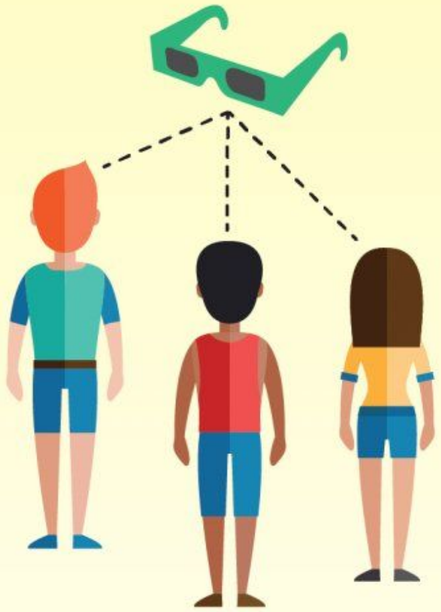


Total Eclipse Weather Briefing

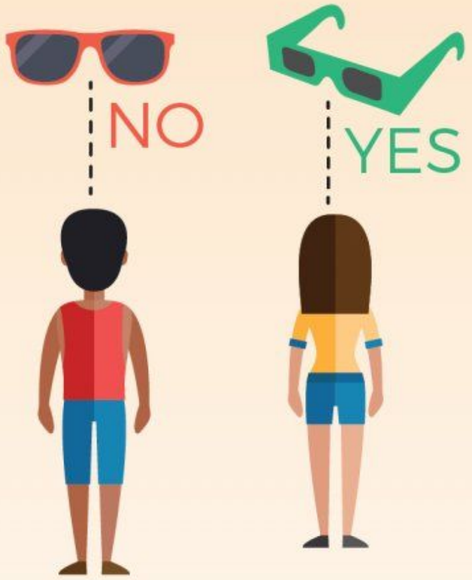
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Protecting Your Eyes

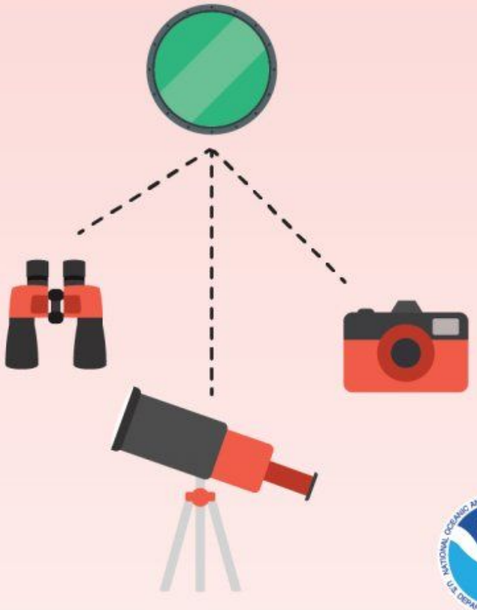
The only safe way to look directly at the sun is through special-purpose solar filters, such as **eclipse glasses**.



Ordinary **sunglasses AREN'T ENOUGH** to protect your eyes, DO NOT wear sunglasses to view the eclipse.



DO NOT look at the sun through a camera, telescope or binoculars unless these **devices have a solar filter** -- your eclipse glasses ARE NOT sufficient.



Contact and Next Briefing Information

April 3, 2024
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For South Central Texas

Next Briefing

- 10:30 AM Thursday, April 4th
- Method: Webinar and Email

Disclaimer

- Information contained in this briefing is time-sensitive

Contact Information

Web

- weather.gov/ewx

Phone

- 830-629-0130 (public line)

Email

- sr-ewx.alert@noaa.gov

Facebook

- NWS San Antonio

Twitter/X

- @NWSSanAntonio