

Convective Outlook

April 17, 2019

enhanced risk

hazards

Scattered Damaging Very Large Wind Gusts

Scattered Hail

Isolated **Tornadoes**

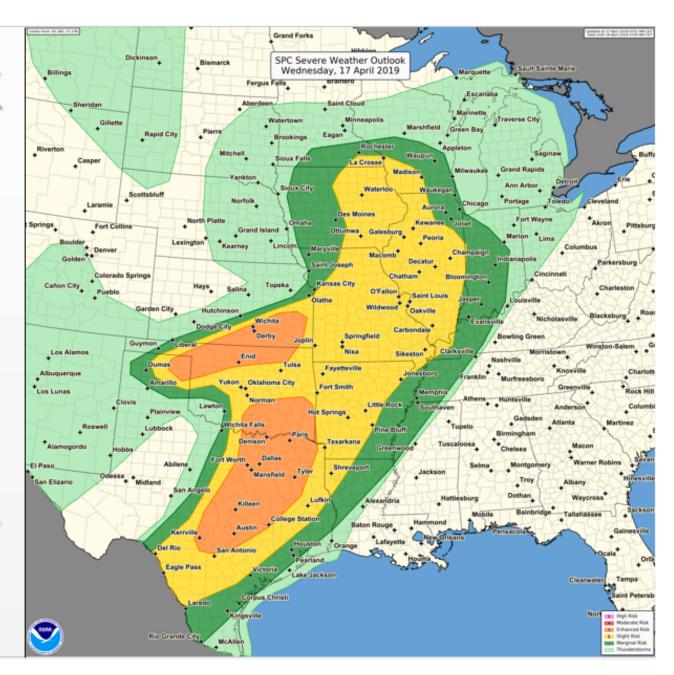


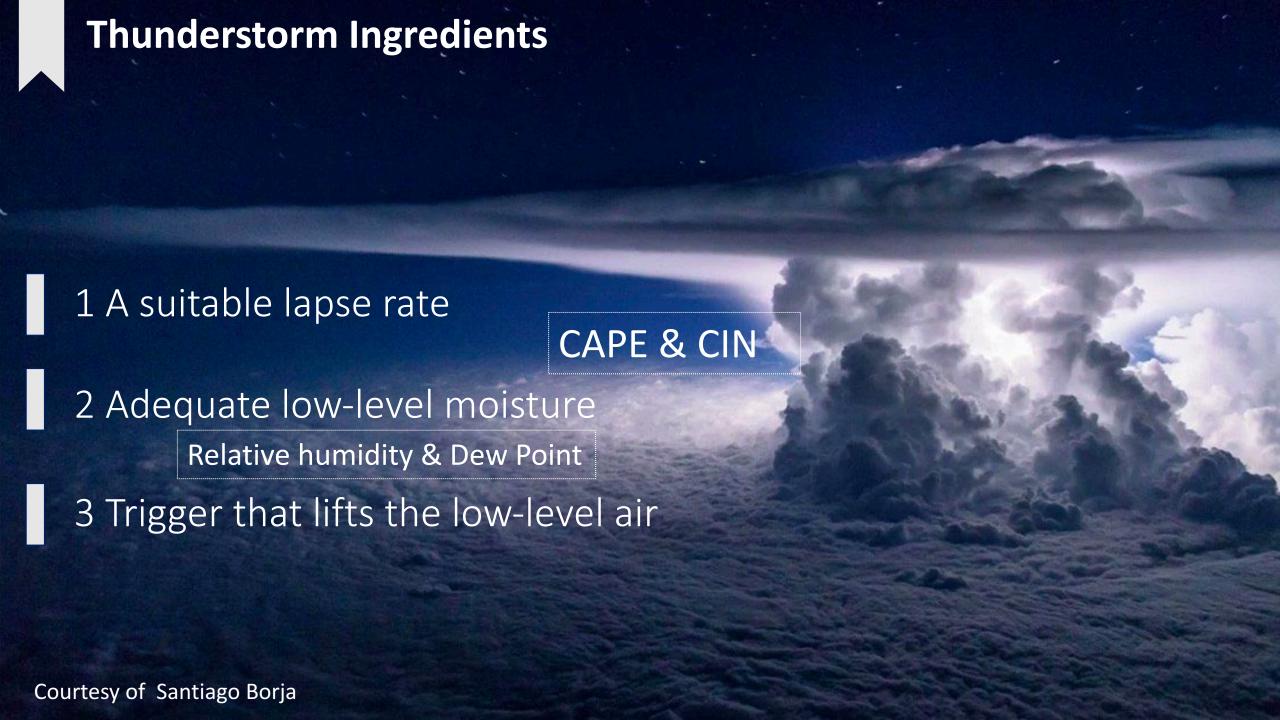


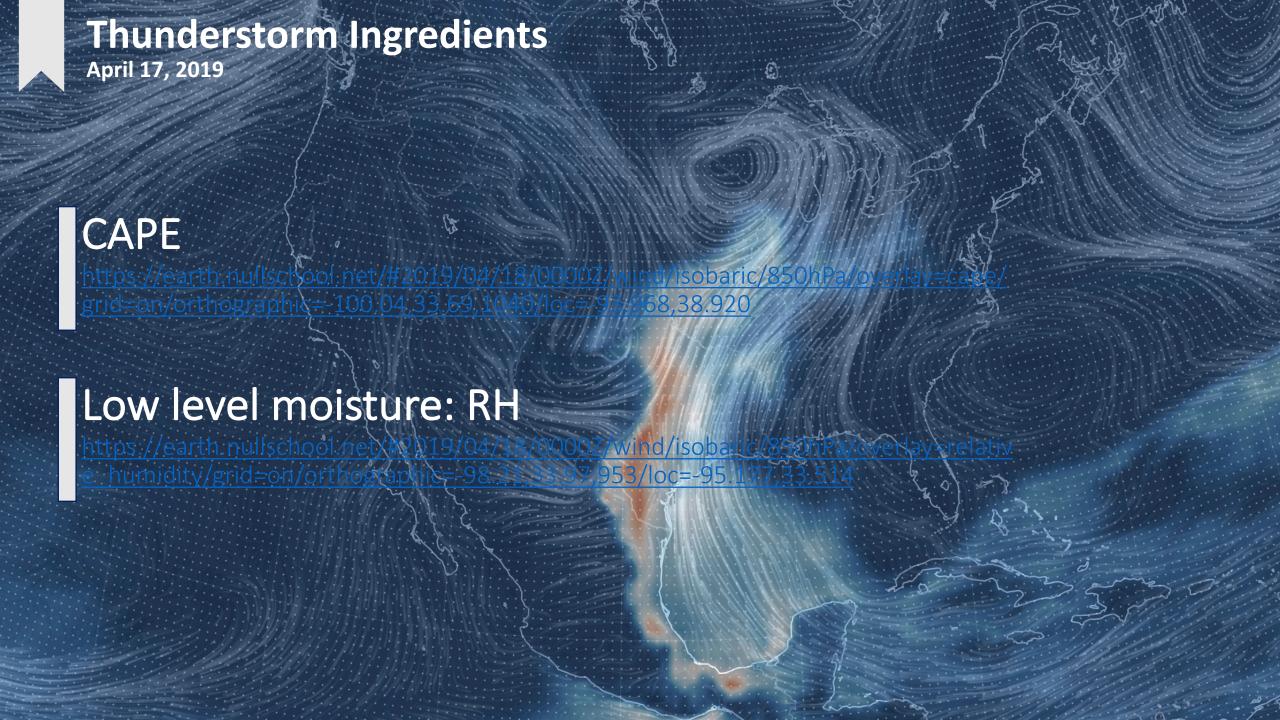


some cities in risk

Dallas, TX | Austin, TX | Fort Worth, TX Wichita, KS | Enid, OK

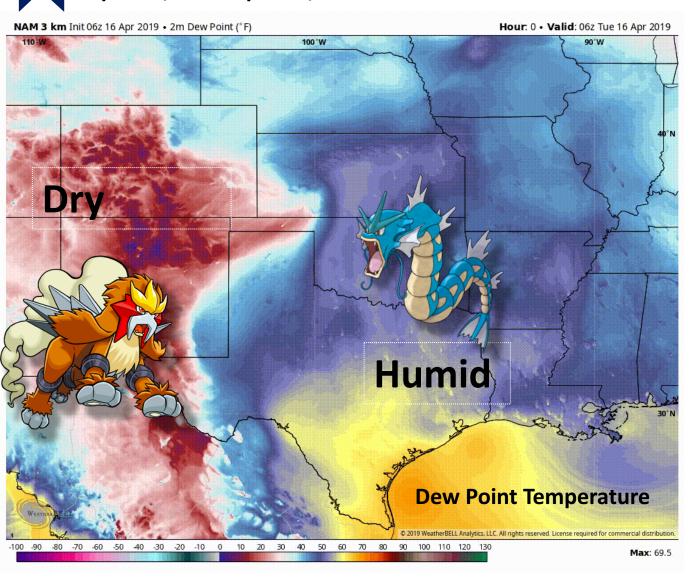


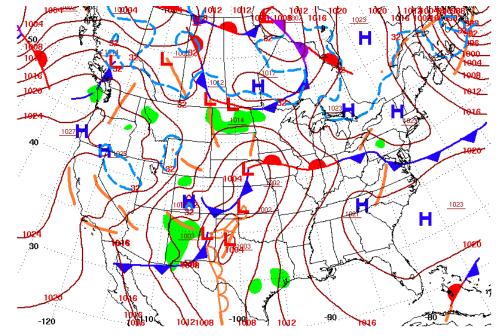




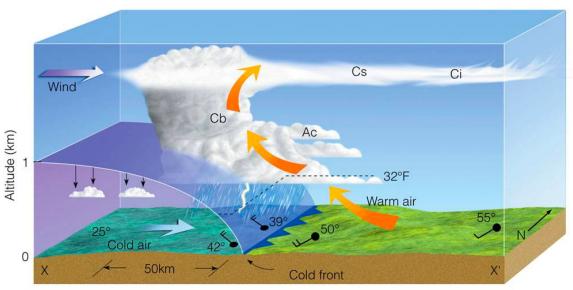
Thunderstorm Ingredients

April 16, 2019-April 17, 2019





Surface Weather Map at 7:00 A.M. E.S.T.

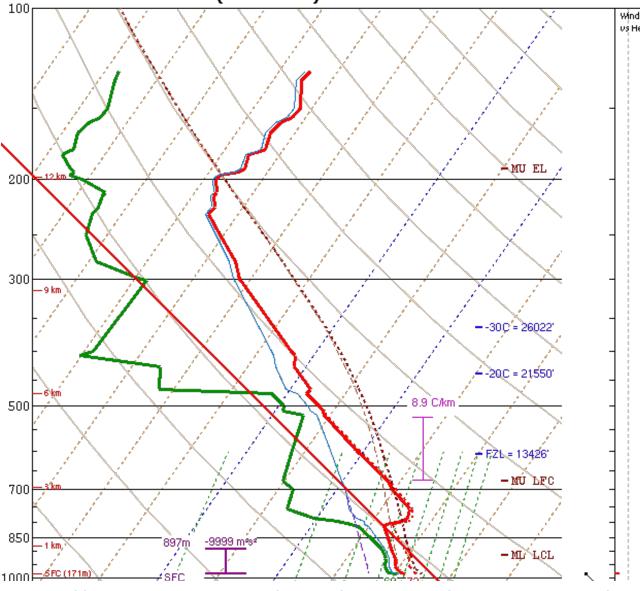


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Thunderstorm Ingredients

April 17, 2019





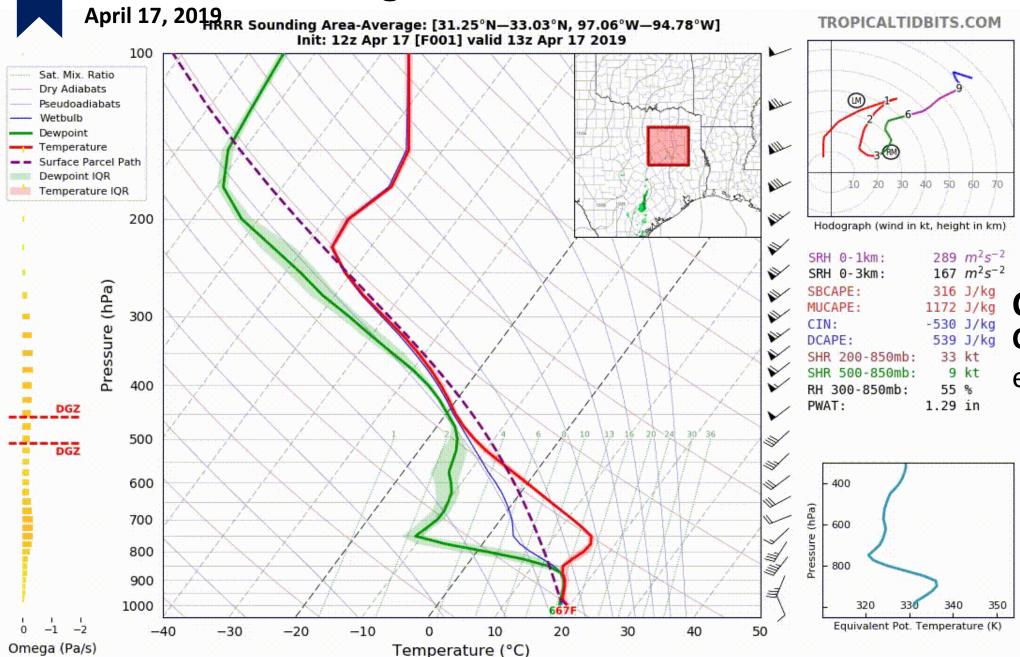
_	-30	-2	0 -	10	0	10	2
ı	PARCEL	CAPE	CINH	LCL	LI	LFC	EL
ı	SURFACE	2495	-61	201m	-8	3210m	40004'
	MIXED LAYER	1570	-156	685m	-6	3640m	38542'
	FCST SURFACE	2496	-59	1202m	-8	3210m	40004'
	MU (986 mb)	2495	-61	201m	-8	3210m	40004'
	PW = 1.26 .in 3CAPE = 1 J/kg K = 23 DCAPE = 639 J/kg MidRH = 41% DownT = 61 F LowRH = 87% MeanW = 13.5 g/kg SigSevere = M Sfc-3km Agl Lapse Rate = 4.3 C/km 3-6km Agl Lapse Rate = 8.6 C/km		ConvT = 93F MMP = 0.00 MaxT = 82F NCAPE = 0.28 Supercell = 0.0 Left Supercell = 0.0 STP (eff layer) = 0.0				
	850-500mb Lapse Rate = 6.4 C/km STP (fix layer) = 0.0 700-500mb Lapse Rate = 8.5 C/km Sig Hail = 0.6						

Stormwx1 @stormwx1 Apr 17 Looking to be an active evening across parts of Oklahoma and Texas.

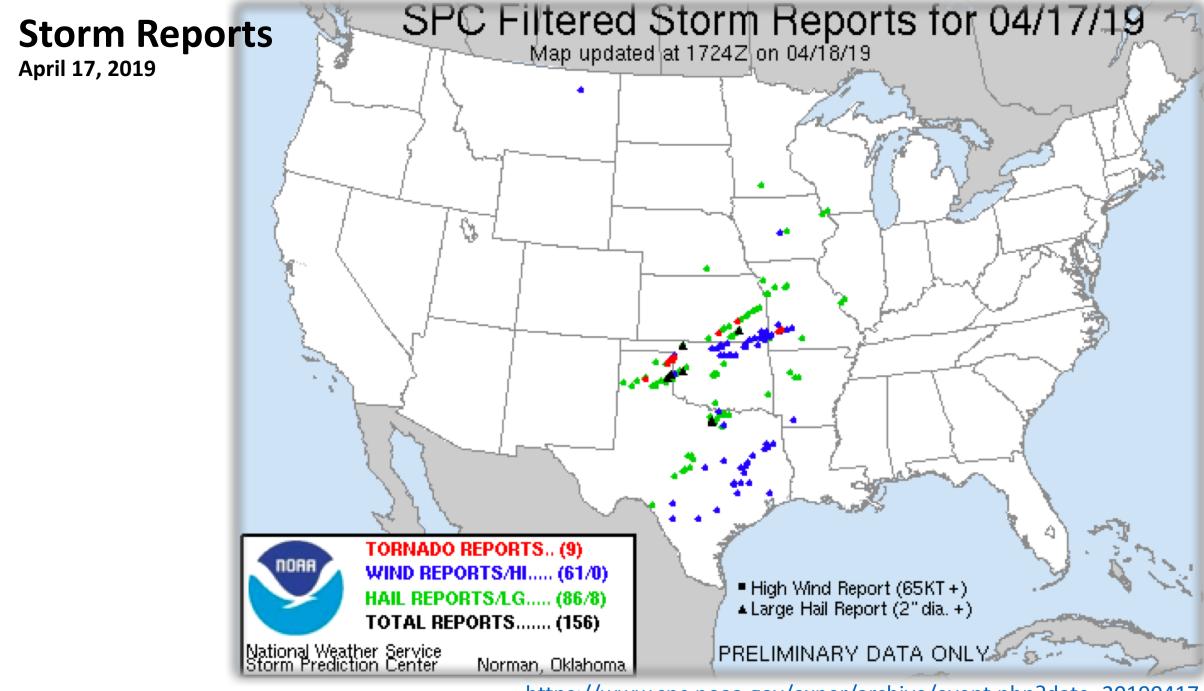
18z special launch at #FWD showing surface-based CAPE values near ~2500 J/kg with very steep lapse rates (8.5 C/km 700-500 mb) yielding to the threat or giant hail. Storms develop by early evening. #okwx #txwx

https://www.spc.noaa.gov/exper/soundings/19041718_OBS/

Thunderstorm Ingredients



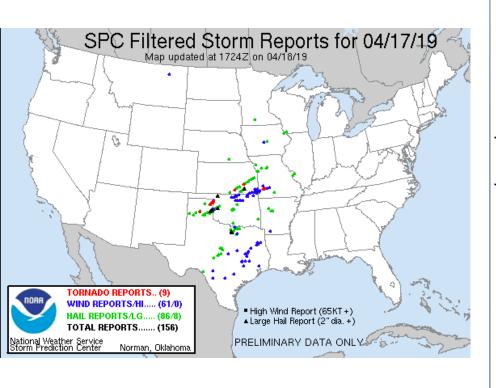
CAPE CIN disappears this evening

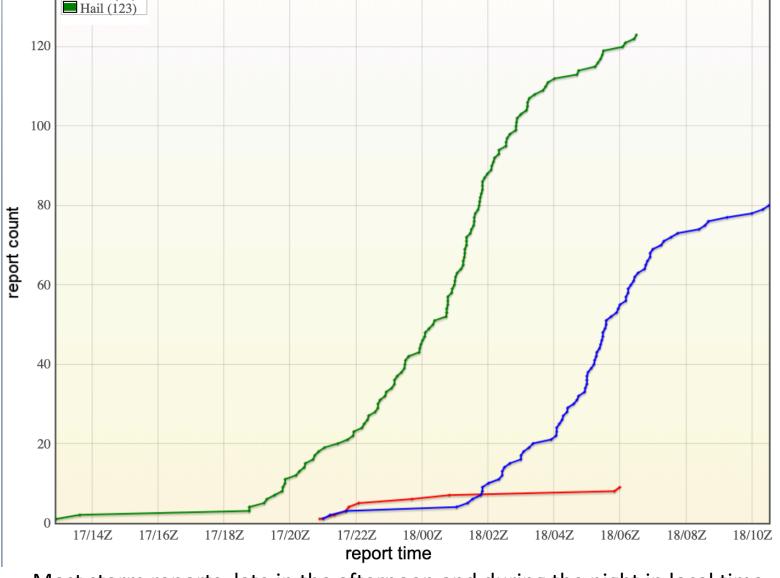


https://www.spc.noaa.gov/exper/archive/event.php?date=20190417

Storm Reports

April 17, 2019





Preliminary storm report trend for the period: 04-17-2019/12z to 04-18-2019/12z

Tornado (9)
Wind (80)

Note: Central Time UTC -6:00-5:00

Most storm reports: late in the afternoon and during the night in local time



Thunderstorms are bubbling up over the south central US as seen by GOES Satellite

Paul Griffin @PaulGriffinWX

WOW! GOES Satellite loop of the squall line of storms in west/central TX. #txwx













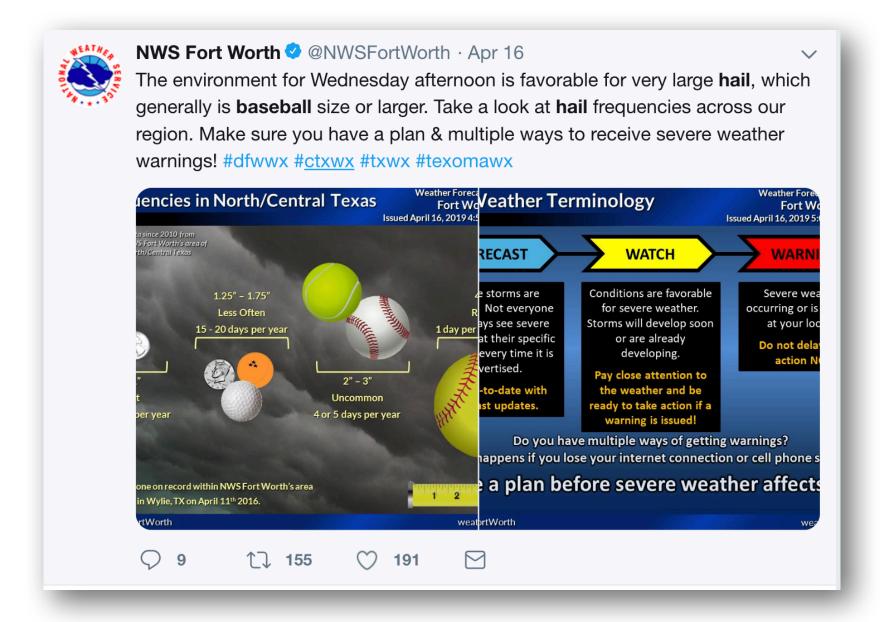




Avery TomascoVerified @averytomascowx

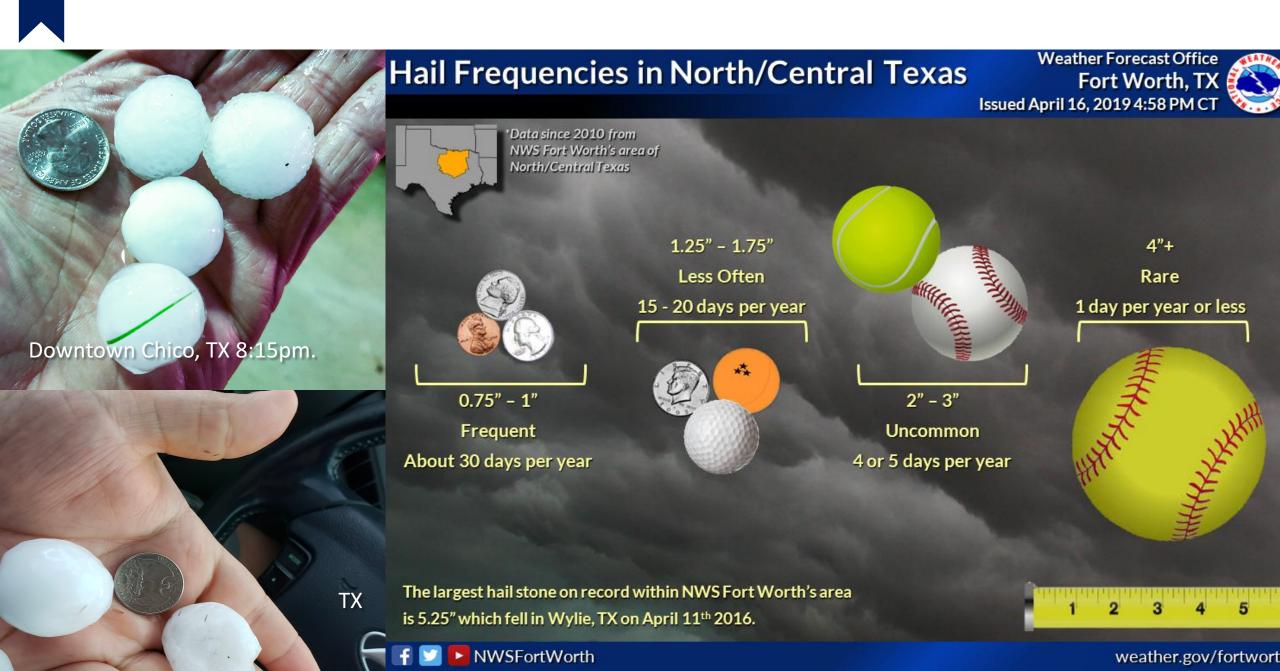
YALL One of the coolest lightning shots I've ever taken, right as I passed Camp Mabry #atxwx #txwx

Hail April 16, 2019





Hail





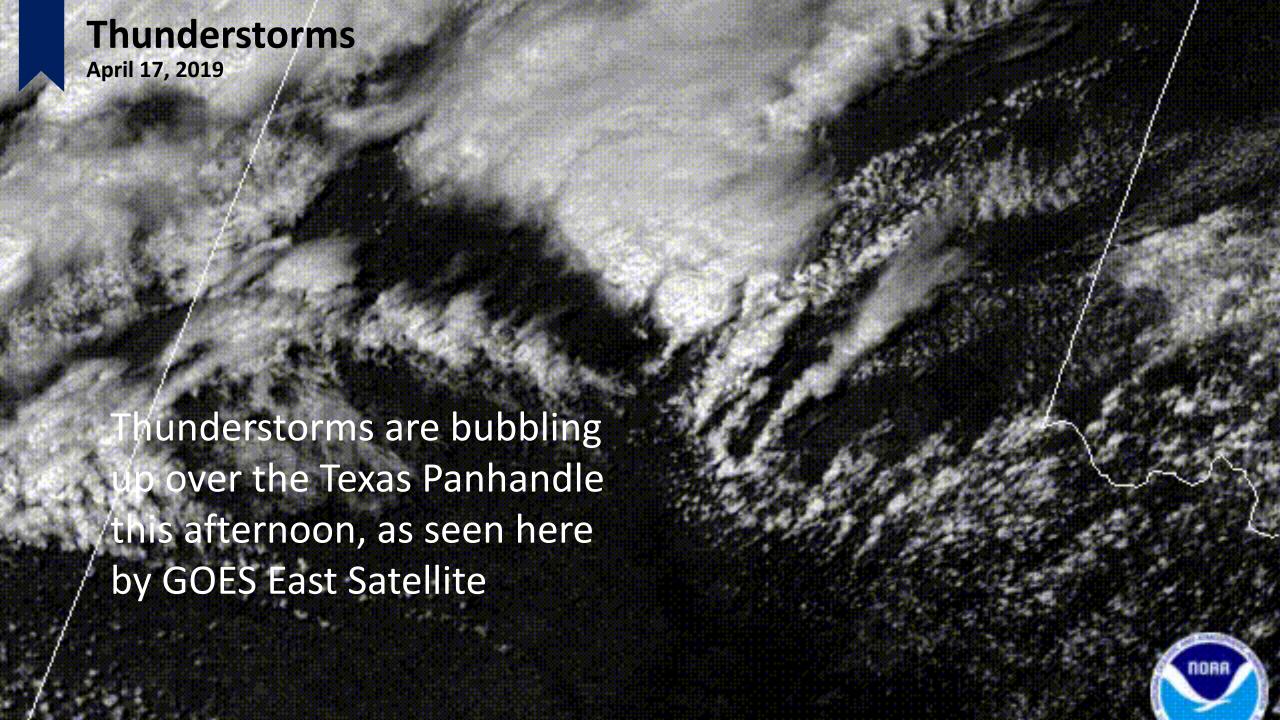
Storm Chaser in Oklahoma

April 17, 2019 https://www.youtube.com/watch?v=-3VHGisVwsk









enhanced risk

1 2 (3) 4 4 5

hazards

Widespread Damaging Wind Gusts Isolated Large Hail Tornadoes,
Possibly
Some Strong







some cities in risk

New Orleans, LA | Mobile, AL Baton Rouge, LA | Montgomery, AL Jackson, MS

