Factual Report – Attachment 16

Day 1 Convective Outlook text, graphic categorical outlooks and graphic probabilistic damaging wind outlooks and Watch Outline Update Messages regarding Severe Thunderstorm Watch #94 issued by the Storm Predication Center on 13 April 2021 prior to the accident time.

METEOROLOGY

DCA21MM024

Submitted by: Mike Richards
NTSB, AS-30

Convective Outlooks

SPC AC 130548

Day 1 Convective Outlook
NWS Storm Prediction Center Norman OK
1248 AM CDT Tue Apr 13 2021

Valid 131200Z - 141200Z

...THERE IS A SLIGHT RISK OF SEVERE THUNDERSTORMS FOR PORTIONS OF EASTERN TEXAS INTO LOUISIANA...

...SUMMARY...
Organized severe storms capable of producing mainly large hail and perhaps damaging winds are expected across portions of central into eastern Louisiana this afternoon. A second round of mainly severe hail-producing storms is likely during the night across parts of eastern Texas into western Louisiana.

...Synopsis...
Zonal flow aloft is expected over the central and southern U.S. as a rex block begins to take shape over western North America. At the surface, a cold front will slowly drift east across eastern TX as low-level moisture advects northward across the western Gulf Coast. An EML is expected to overspread the lower Mississippi Valley in advance of the moisture advection, promoting ample buoyancy for thunderstorm development. Latest guidance depicts two weak mid-level impulses embedded within the zonal flow, which are expected to propagate over the Mid-South through the period. The first impulse is expected to support vigorous thunderstorm development across central into eastern LA during the early to mid afternoon, with organized severe expected. The second impulse is expected to support thunderstorm development along and ahead of the cold front across eastern Texas into western Louisiana during the night, with a second round of severe storms likely.

...Central into eastern Louisiana - Midday...
During the early afternoon hours, a combination of diurnal heating, warm-air advection, and subtle deep-layer ascent associated with the first glancing mid-level impulse is expected to support the initiation of vigorous convection across central Louisiana. Storms will likely initiate on the north side of an effective warm front, with initial storms likely being partially elevated. While low-level shear is expected to remain weak, up to 35 kts of effective bulk shear values and appreciable veering within the sfc-700 mb layer is expected to support organized multicellular clusters and transient supercells given 8 C/km mid-level lapse rates and associated MLCAPE around 2000+ J/kg. Initially, large hail will be the main concern with these storms, and an instance or two of 2.0 inch hail cannot be ruled out. However, given weak low-level shear and the tendency for cold-pool mergers to occur, damaging

gusts may become a concern as the storms grow upscale into an MCS and traverse a surface-based airmass across southern LA before propagating offshore.

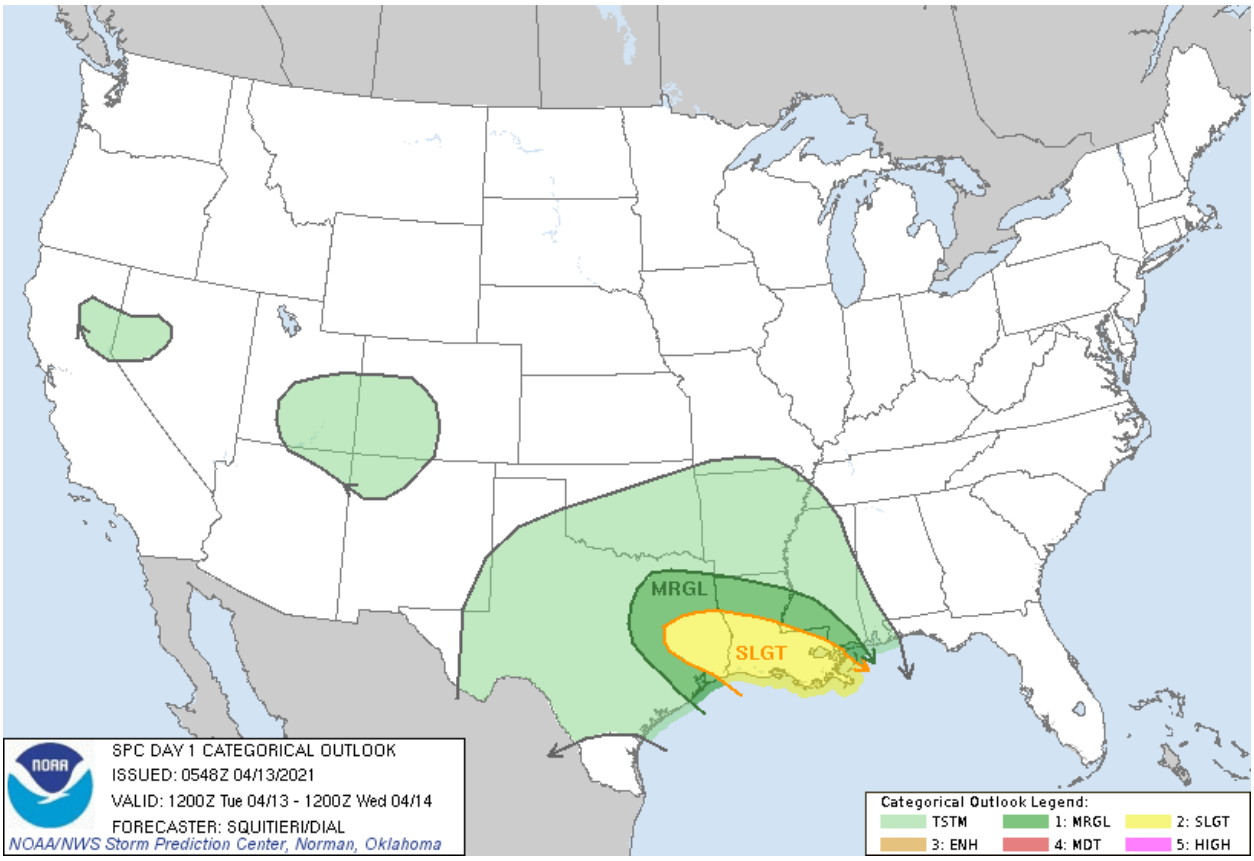
...Eastern Texas into western Louisiana - Early evening into the overnight...
Appreciable low-level moisture, characterized by low to mid 60s F surface dewpoints, will gradually advect northwestward up to the slowly eastward-moving cold front through the day. At or shortly before sunset, the warm-air advection near the front and weak upper support from the glancing second mid-level impulse is expected to initiate a second round of storms across portions of eastern TX. Relatively rich low-level moisture in the lowest 100 mb beneath 7.5-8.5 C/km mid-level lapse rates will foster up to 2000 J/kg MLCAPE ahead of the cold front. In addition to 35-40 kts of effective bulk shear, a noticeable increase in the 925-850 mb flow will enlarge hodographs some, promoting 100-250 m2/s2 of effective SRH. This thermodynamic/kinematic environment will favor clusters of multicells and occasional supercells capable of producing large hail (with a very large hailstone or two possible). Given the richer moisture in place, a couple storms may become surface-based, and a couple damaging gusts or a tornado cannot be completely ruled out.

...Northern Texas into southern Oklahoma - early to mid evening...
A swath of elevated convection (rooted in a layer above 700 mb) is expected to develop in advance of the second mid-level impulse traversing the southern Plains into the Mid-South. While skinny 700-200mb CAPE profiles characterize the thermodynamic environment ahead of these storms, 8 C/km mid-level lapse rates accompanied by 40+ kts of effective bulk shear may support very brief organization of a few storms, and a marginally severe hailstone is possible. Confidence is currently not high enough to introduce Marginal severe probabilities for large hail, though the addition/expansion of a Marginal risk into northern TX/southern OK may be needed in future outlooks should a greater large-hail threat become apparent.

..Squitieri/Dial.. 04/13/2021

CLICK TO GET WUUS01 PTSDY1 PRODUCT

NOTE: THE NEXT DAY 1 OUTLOOK IS SCHEDULED BY 1300Z


MRGL
SLGT
SPC DAY 1 CATEGORICAL OUTLOOK
ISSUED: 0548Z 04/13/2021
VALID: 1200Z Tue 04/13 - 1200Z Wed 04/14
FORECASTER: SQUITIERI/DIAL
NOAA/NWS Storm Prediction Center, Norman, Oklahoma
Categorical Outlook Legend:
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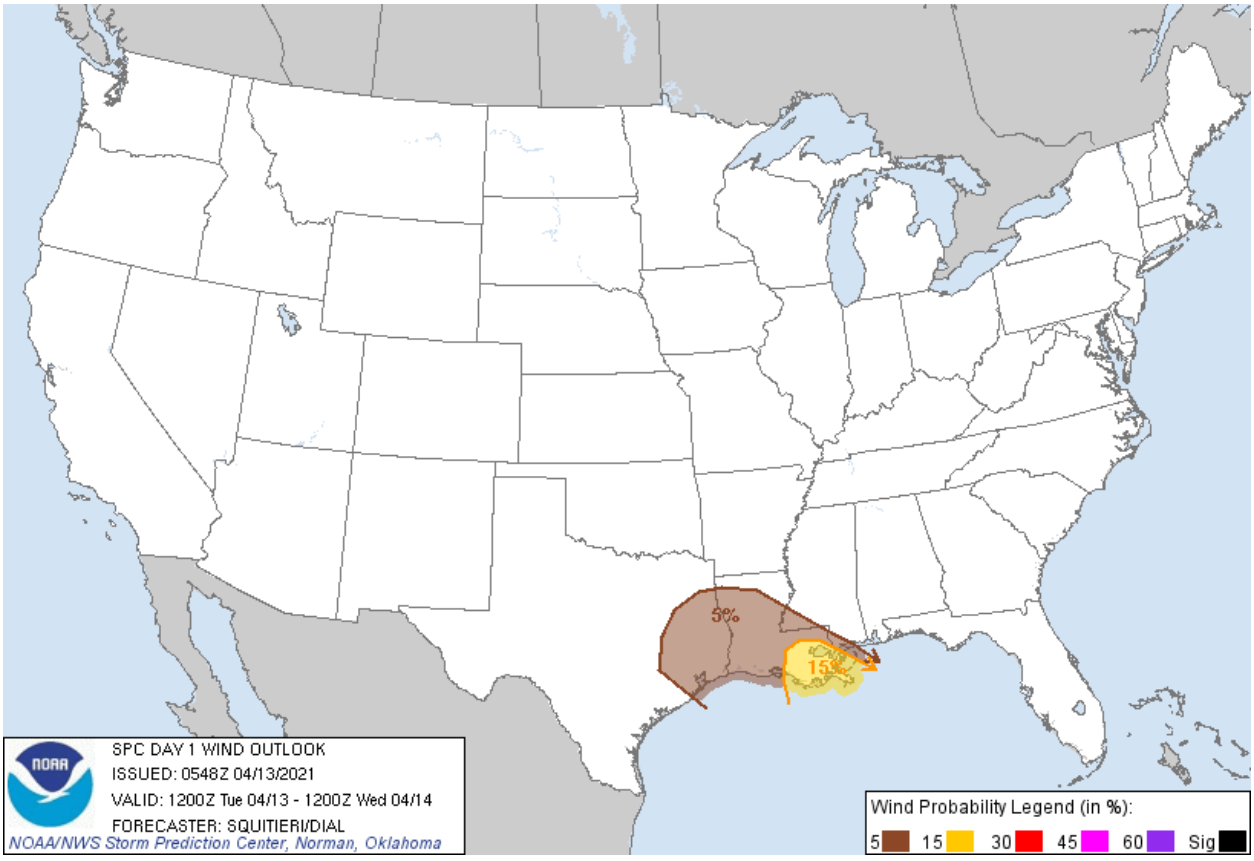
2: SLGT
3: ENH
4: MDT
5: HIGH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15%
SPC DAY 1 WIND OUTLOOK
ISSUED: 0548Z 04/13/2021
VALID: 1200Z Tue 04/13 - 1200Z Wed 04/14
FORECASTER: SQUITIERI/DIAL
NOAA/NWS Storm Prediction Center, Norman, Oklahoma
Wind Probability Legend (in %):
5 15 30 45 60 Sig

SPC AC 131257

Day 1 Convective Outlook
NWS Storm Prediction Center Norman OK
0757 AM CDT Tue Apr 13 2021

Valid 131300Z - 141200Z

...THERE IS A SLIGHT RISK OF SEVERE THUNDERSTORMS FROM PORTIONS OF EAST TEXAS ACROSS CENTRAL/SOUTHERN LOUISIANA...

...SUMMARY...
Episodes of strong to severe thunderstorms are most probable today and tonight from east Texas across parts of Louisiana.

...Synopsis...
A blockier mid/upper-tropospheric pattern will cover much of the northern CONUS, related to two slow-moving, synoptic-scale cyclones that will be connected by troughing, with a col located over the northern High Plains. The eastern vortex is centered over northern MN, and zonally elongates across parts of the Dakotas, Lake Superior, MN, WI, and Upper MI. The 500-mb low will meander erratically around the northeastern MN/western Lake Superior area through most of the period before turning east-southeastward over WI late tonight.

To the west, moisture-channel imagery indicates mid/upper cyclogenesis over the interior Northwest, within a pronounced, zonal trough. The resulting closed gyre will pivot south-southwestward over OR, then southeastward to the northern Great Basin, with 500-mb low over northern NV by 12Z tomorrow. This vortex will be the cyclonic member of a Rex pattern days 2-3, in combination with a developing anticyclone over BC. Between the lows, shortwave ridging will develop/amplify tonight over the central High Plains. South of the twin cyclones, a belt of southwesterly to westerly flow aloft will extend from CA and northwestern MX across the southern Plains and Southeast. A series of weak shortwaves will traverse this flow field from the Southwest and northern MX to the Mississippi Delta region.

Surface analysis at 11Z depicted a low associated with deep-layer cyclone over northern MN. A cold front extended across northeastern WI and central IL, becoming quasistationary to a weak low near TXK. From there the front extended southwestward across south-central TX to near DRT. A warm/marine front was drawn across south TX near Eagle Pass and HOU to near LCH, then southeastward to near EYW. The northern frontal zone will become quasistationary across parts of the Mid-South and Arklatex regions. However, the boundary should continue slow southward progress over central/southwest TX, behind a frontal wave located over north-central/northeast TX. Extent of inland progression of the marine front is uncertain, but will be modulated by extensive convection to its north and northeast over parts of LA and the Delta region today, and tonight over east TX and LA.

...LA, Arklatex, central/east TX...
Severe potential appears over this swath in two main episodes, with some spatial overlap possible in the middle across western LA.

1. Midday into tonight, mainly LA:
Scattered, ultimately numerous thunderstorms are expected to develop by midday and through the afternoon, aside from early convection now underway across parts of southwestern LA. Most of the activity will form in a zone of elevated low-level warm advection and moisture transport along and north of the marine front, though some may build into the optimally well-modified maritime/tropical boundary layer of the Gulf, near the LA Coast. Large hail will be possible early in the convective cycle, with relatively discrete cells, and isolated significant/2+ hail cannot be ruled out. The main factor precluding an unconditional significant-hail outline, for now, is uncertainty over coverage/duration of any such potential, given the expected quick upscale clustering of convection that is forecast. As that occurs, damaging downdrafts will transition from an isolated to an areal/organized severe concern, especially with forward propagation into the ore-unstable Gulf air mass. A tornado cannot be ruled out near the coast as well, this threat being regulated by both local storm mode and limited spatial coverage of a favorable parameter space.

The air mass along and south of the marine boundary, near the immediate coast, will be most favorable, characterized by PW around 1.5-1.75 inches and upper 60s to low 70s F surface dew points, beneath steep midlevel lapse rates. This will contribute to MLCAPE around 1500-2500 J/kg away from convection, and where a few hours of diurnal heating can be realized. However, weak low/middle-level wind speeds will limit vertical shear and hodograph size, with supercell modes probably transient, messy, and located along/north of the boundary. Buoyancy will become more elevated with northward extent, but amidst somewhat greater (35-40 kt) effective-shear vectors. Most synoptic and convection-allowing guidance reasonably indicates southward to southeastward forward propagation of resulting convective complex across the coast and over the Gulf, leaving an outflow-reinforced baroclinic zone to its west across parts of east/southeast TX and perhaps extreme southwestern LA.

2. Evening and overnight, LA/TX/AR/OK area:
Widely scattered thunderstorms should develop this evening over portions of east and perhaps central TX, to southern AR and central LA. A mix of multicellular and messy supercellular modes should result, offering a threat for large hail and damaging to locally severe gusts.

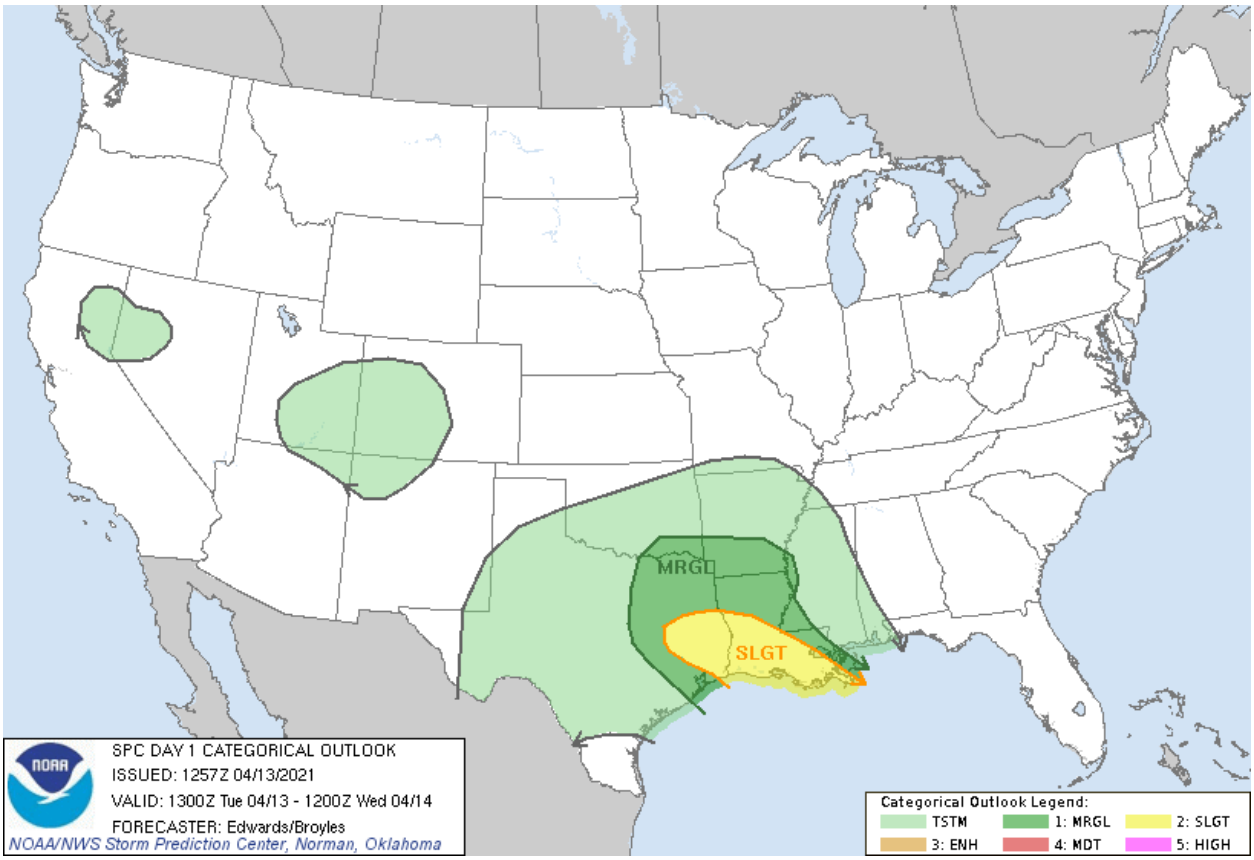
This activity will be supported by both surface-based and elevated destabilization occurring in the warm sector, around the western fringe of the air mass processed by the earlier MCS, and ultimately, atop the cold pool over LA as well. Low-level shear and SRH will increase somewhat overnight as a broad area of 25-35-kt 850-mb flow develops over east TX and LA, and a tornado cannot be ruled out from any relative discrete/surface-based cell that can sustain itself in that environment before being assimilated into a convective cluster.

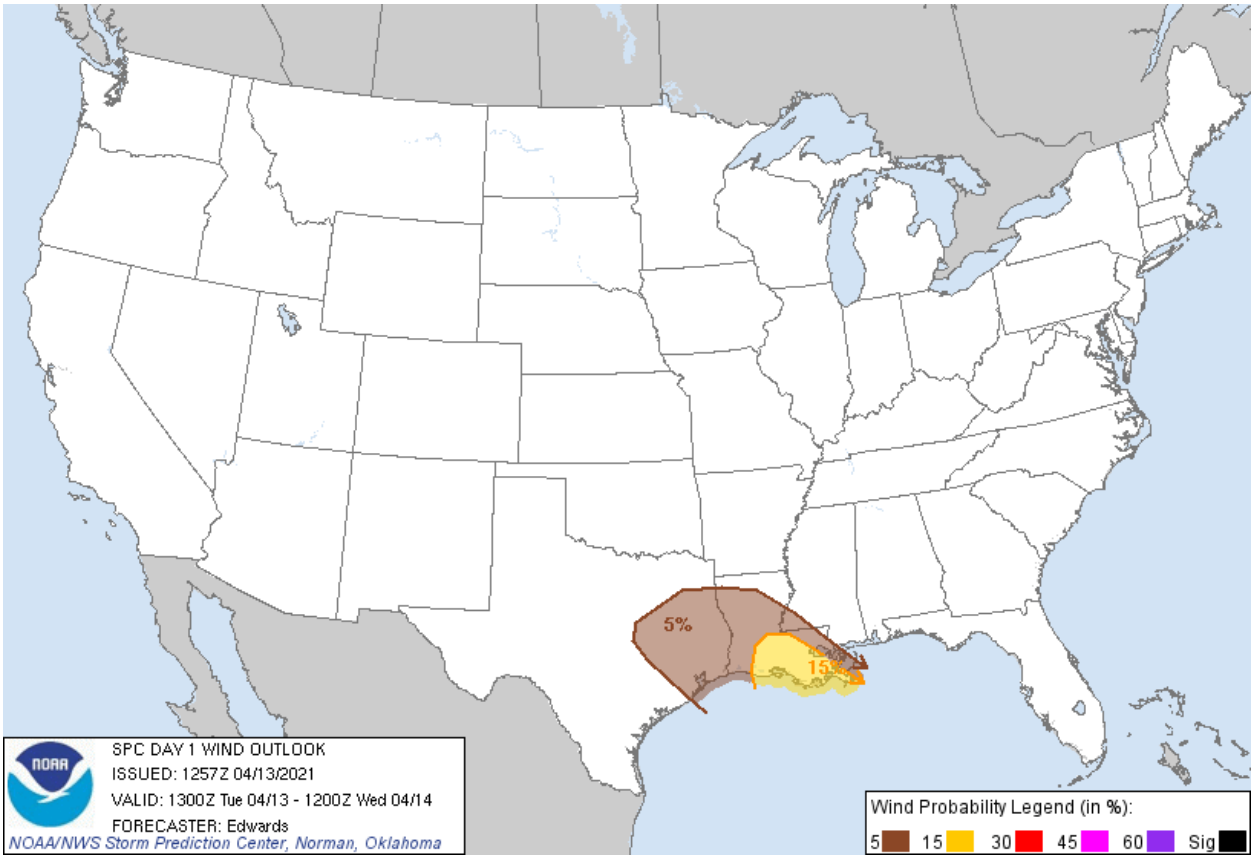
MLCAPE/MUCAPE around 1500-2500 J/kg is expected near the outflow boundary/marine front, and over much of southeast into east-central TX. Buoyancy will diminish and become more elevated with northward extent from there into parts of AR, north TX and southeastern OK. However, with stronger deep shear (e.g., effective-shear magnitudes 45-55 kt possible), isolated severe hail may occur in those areas, especially early in the local convective cycle. In such a setting, the transition between marginal and no severe potential is ill-defined, and not well-represented by a sharp categorical line on a screen.

..Edwards/Broyles.. 04/13/2021

CLICK TO GET WUUS01 PTSDY1 PRODUCT

NOTE: THE NEXT DAY 1 OUTLOOK IS SCHEDULED BY 1630Z

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SPC DAY 1 WIND OUTLOOK
ISSUED: 1257Z 04/13/2021
VALID: 1300Z Tue 04/13 - 1200Z Wed 04/14
FORECASTER: Edwards
NOAA/NWS Storm Prediction Center, Norman, Oklahoma
Wind Probability Legend (in %):
5 15 30 45 60 Sig

SPC AC 131625

Day 1 Convective Outlook
NWS Storm Prediction Center Norman OK
1125 AM CDT Tue Apr 13 2021

Valid 131630Z - 141200Z

...THERE IS A SLIGHT RISK OF SEVERE THUNDERSTORMS THIS AFTERNOON ACROSS SOUTHEAST LA AND TONIGHT FROM EAST TX INTO WESTERN LA...

...SUMMARY...
Episodes of strong to severe thunderstorms are most probable today and tonight from east Texas across parts of Louisiana.

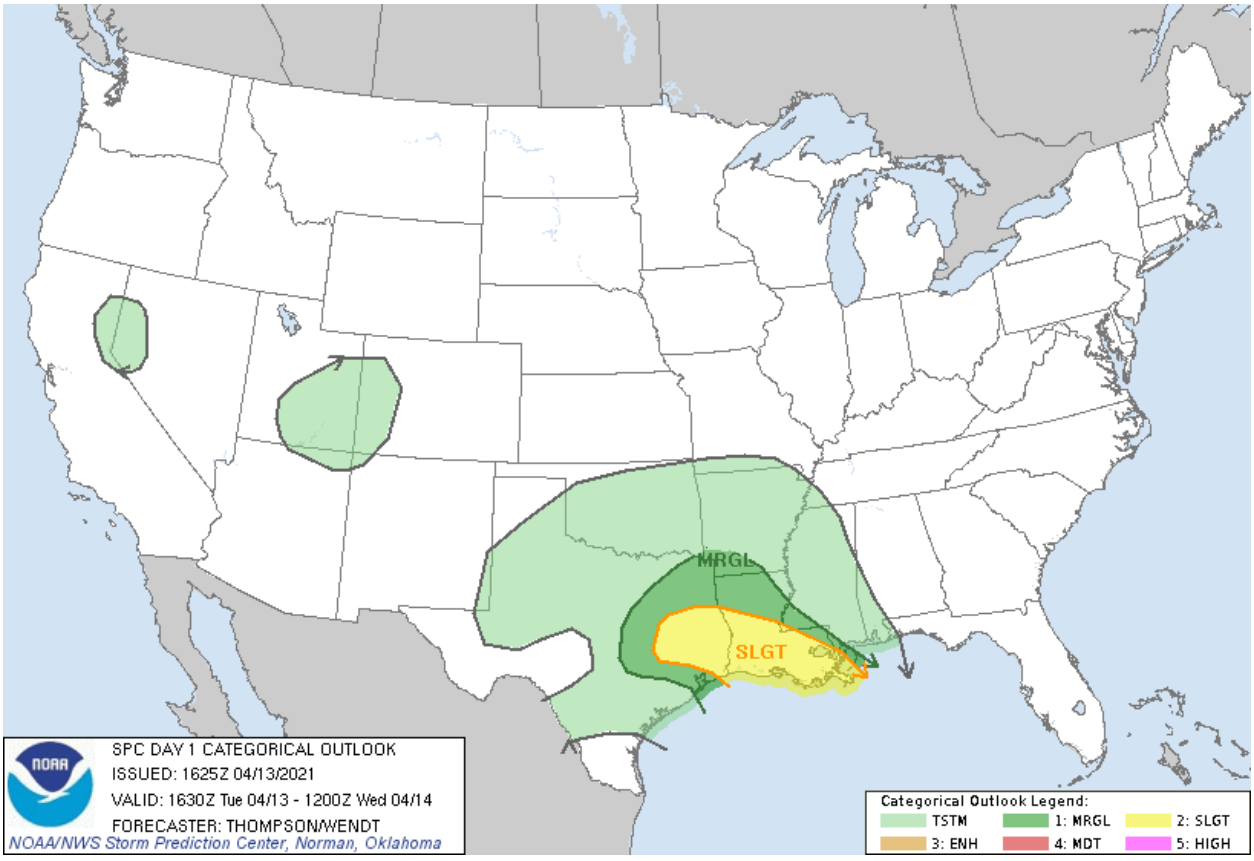
...LA/TX areas today into tonight...
A cluster of slightly elevated thunderstorms is ongoing across south central and southeast LA as of late morning, with a few embedded stronger cells capable of producing isolated large hail. The hail threat is supported by the influx of low-mid 70s boundary-layer dewpoints across the northwest Gulf coast, beneath the eastern extent of midlevel lapse rates near 8 C/km. The convection this morning has been driven largely by weak low-level warm advection in a moist profile with little convective inhibition, which suggests that storms will likely persist through the afternoon. Gradual upscale growth into a larger cluster/MCS appears possible, with a tendency for cold pool formation to result in slow southeastward propagation into this afternoon/evening. The primary severe threats with these storms will be occasional large hail and isolated damaging gusts.

Farther west and later this afternoon, isolated surface-based storm development will be possible along the stalled synoptic front across east TX. Forcing for ascent will be weak and this area will be along the northeast edge of the stronger cap, so diurnal storm coverage is in question. If storms do form this afternoon, the environment conditionally favors supercells capable of producing large hail/damaging winds. Otherwise, another round of strong-severe storms appears probable from east TX into LA in conjunction with some increase in low-level warm advection late tonight. A continued feed of rich low-level moisture from the south and steep midlevel lapse rates will maintain MUCAPE at or above 2000 J/kg, with an attendant threat for at least isolated large hail/damaging winds.

..Thompson/Wendt.. 04/13/2021

CLICK TO GET WUUS01 PTSDY1 PRODUCT

NOTE: THE NEXT DAY 1 OUTLOOK IS SCHEDULED BY 2000Z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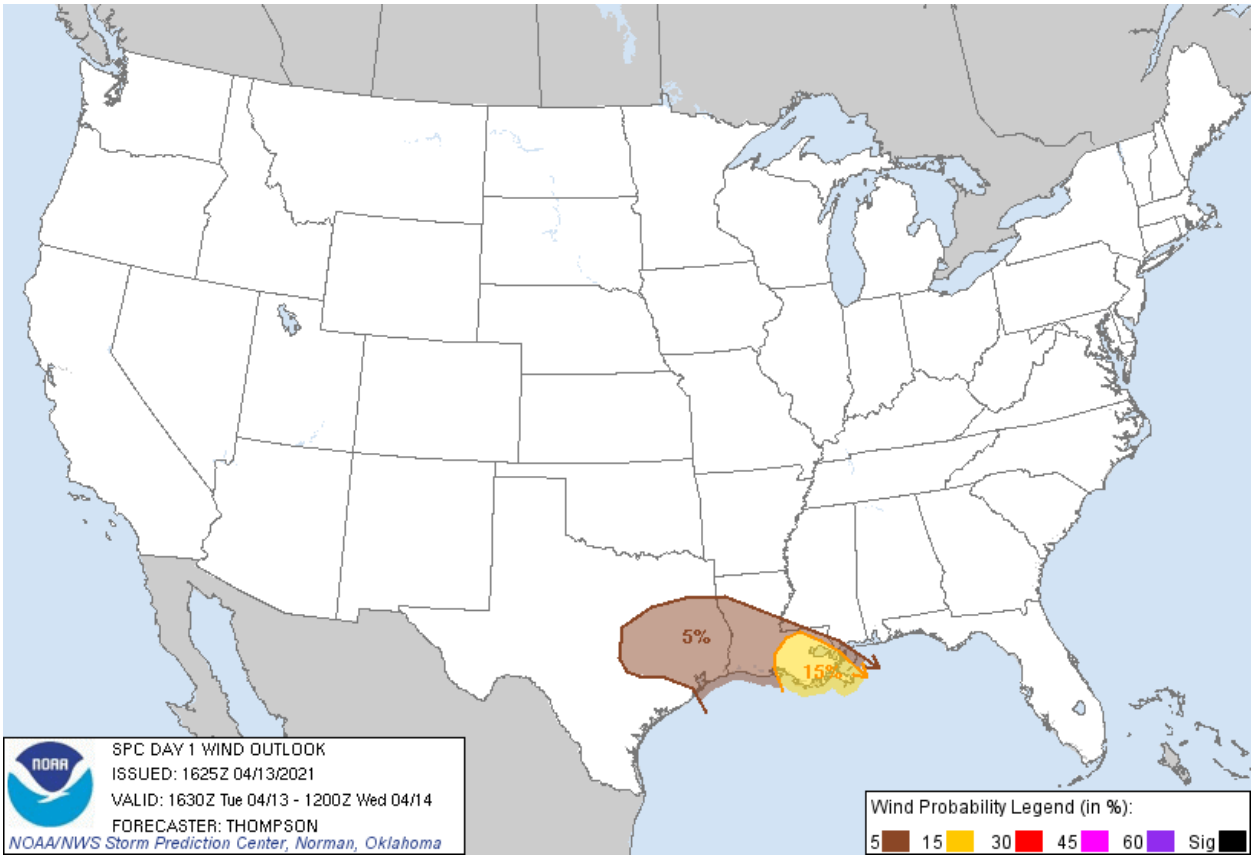
SPC DAY 1 CATEGORICAL OUTLOOK
ISSUED: 1625Z 04/13/2021
VALID: 1630Z Tue 04/13 - 1200Z Wed 04/14
FORECASTER: THOMPSON/WENDT
NOAA/NWS Storm Prediction Center, Norman, Oklahoma
Categorical Outlook Legend:
TSTM
1: MRGL
2: SLGT
3: ENH
4: MDT
5: HIGH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SPC DAY 1 WIND OUTLOOK
ISSUED: 1625Z 04/13/2021
VALID: 1630Z Tue 04/13 - 1200Z Wed 04/14
FORECASTER: THOMPSON
NOAA/NWS Storm Prediction Center, Norman, Oklahoma
Wind Probability Legend (in %):
5 15 30 45 60 Sig

Watch Outline Update Messages

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205
WOUS64 KWNS 131703
WOU4

BULLETIN - IMMEDIATE BROADCAST REQUESTED
SEVERE THUNDERSTORM WATCH OUTLINE UPDATE FOR WS 94
NWS STORM PREDICTION CENTER NORMAN OK
1205 PM CDT TUE APR 13 2021

SEVERE THUNDERSTORM WATCH 94 IS IN EFFECT UNTIL 600 PM CDT
FOR THE FOLLOWING LOCATIONS

LAC005-007-045-047-051-057-071-075-087-089-093-095-099-101-103-
109-132300-
/O.NEW.KWNS.SV.A.0094.210413T1705Z-210413T2300Z/

LA
.    LOUISIANA PARISHES INCLUDED ARE

ASCENSION            ASSUMPTION          IBERIA
IBERVILLE            JEFFERSON           LAFOURCHE
ORLEANS              PLAQUEMINES         ST. BERNARD
ST. CHARLES          ST. JAMES           ST. JOHN THE BAPTIST
ST. MARTIN           ST. MARY            ST. TAMMANY
TERREBONNE
$$


GMZ435-455-530-534-538-550-552-555-132300-
/O.NEW.KWNS.SV.A.0094.210413T1705Z-210413T2300Z/

CW

.    ADJACENT COASTAL WATERS INCLUDED ARE

VERMILION BAY

COASTAL WATERS FROM LOWER ATCHAFALAYA RIVER TO INTRACOASTAL CITY
LA OUT 20 NM

LAKE PONTCHARTRAIN AND LAKE MAUREPAS

LAKE BORGNE

BRETON SOUND

COASTAL WATERS FROM PORT FOURCHON LA TO LOWER ATCHAFALAYA RIVER
LA OUT 20 NM
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COASTAL WATERS FROM THE SOUTHWEST PASS OF THE MISSISSIPPI RIVER
TO PORT FOURCHON LOUISIANA OUT 20 NM

COASTAL WATERS FROM BOOTHVILLE LA TO SOUTHWEST PASS OF THE
MISSISSIPPI RIVER OUT 20 NM

$$
ATTN...WFO...LIX...LCH...

691
WOUS64 KWNS 131733
WOU4

SEVERE THUNDERSTORM WATCH OUTLINE UPDATE FOR WS 94
NWS STORM PREDICTION CENTER NORMAN OK
1233 PM CDT TUE APR 13 2021

SEVERE THUNDERSTORM WATCH 94 REMAINS IN EFFECT UNTIL 600 PM CDT
FOR THE FOLLOWING LOCATIONS

LAC005-007-045-047-051-057-071-075-087-089-093-095-099-101-103-
109-132300-
/O.CON.KWNS.SV.A.0094.000000T0000Z-210413T2300Z/

LA
.   LOUISIANA PARISHES INCLUDED ARE

ASCENSION	ASSUMPTION	IBERIA
IBERVILLE	JEFFERSON	LAFOURCHE
ORLEANS	PLAQUEMINES	ST. BERNARD
ST. CHARLES	ST. JAMES	ST. JOHN THE BAPTIST
ST. MARTIN	ST. MARY	ST. TAMMANY
TERREBONNE		

$$

GMZ435-455-530-534-538-550-552-555-132300-
/O.CON.KWNS.SV.A.0094.000000T0000Z-210413T2300Z/

CW

.   ADJACENT COASTAL WATERS INCLUDED ARE

VERMILION BAY

COASTAL WATERS FROM LOWER ATCHAFALAYA RIVER TO INTRACOASTAL CITY
LA OUT 20 NM

LAKE PONTCHARTRAIN AND LAKE MAUREPAS

LAKE BORGNE

BRETON SOUND

COASTAL WATERS FROM PORT FOURCHON LA TO LOWER ATCHAFALAYA RIVER
LA OUT 20 NM

COASTAL WATERS FROM THE SOUTHWEST PASS OF THE MISSISSIPPI RIVER
TO PORT FOURCHON LOUISIANA OUT 20 NM

COASTAL WATERS FROM BOOTHVILLE LA TO SOUTHWEST PASS OF THE

MISSISSIPPI RIVER OUT 20 NM

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ATTN...WFO...LIX...LCH...

373
WOUS64 KWNS 131803
WOU4

SEVERE THUNDERSTORM WATCH OUTLINE UPDATE FOR WS 94
NWS STORM PREDICTION CENTER NORMAN OK
103 PM CDT TUE APR 13 2021

SEVERE THUNDERSTORM WATCH 94 REMAINS IN EFFECT UNTIL 600 PM CDT
FOR THE FOLLOWING LOCATIONS

LAC005-007-045-047-051-057-071-075-087-089-093-095-099-101-103-
109-132300-
/O.CON.KWNS.SV.A.0094.000000T0000Z-210413T2300Z/

LA
.   LOUISIANA PARISHES INCLUDED ARE

ASCENSION	ASSUMPTION	IBERIA
IBERVILLE	JEFFERSON	LAFOURCHE
ORLEANS	PLAQUEMINES	ST. BERNARD
ST. CHARLES	ST. JAMES	ST. JOHN THE BAPTIST
ST. MARTIN	ST. MARY	ST. TAMMANY
TERREBONNE		

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GMZ435-455-530-534-538-550-552-555-132300-
/O.CON.KWNS.SV.A.0094.000000T0000Z-210413T2300Z/

CW

.   ADJACENT COASTAL WATERS INCLUDED ARE

VERMILION BAY

COASTAL WATERS FROM LOWER ATCHAFALAYA RIVER TO INTRACOASTAL CITY
LA OUT 20 NM

LAKE PONTCHARTRAIN AND LAKE MAUREPAS

LAKE BORGNE

BRETON SOUND

COASTAL WATERS FROM PORT FOURCHON LA TO LOWER ATCHAFALAYA RIVER
LA OUT 20 NM

COASTAL WATERS FROM THE SOUTHWEST PASS OF THE MISSISSIPPI RIVER
TO PORT FOURCHON LOUISIANA OUT 20 NM

COASTAL WATERS FROM BOOTHVILLE LA TO SOUTHWEST PASS OF THE

MISSISSIPPI RIVER OUT 20 NM

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ATTN...WFO...LIX...LCH...

275
WOUS64 KWNS 131833
WOU4

SEVERE THUNDERSTORM WATCH OUTLINE UPDATE FOR WS 94
NWS STORM PREDICTION CENTER NORMAN OK
133 PM CDT TUE APR 13 2021

SEVERE THUNDERSTORM WATCH 94 REMAINS IN EFFECT UNTIL 600 PM CDT
FOR THE FOLLOWING LOCATIONS

LAC005-007-045-047-051-057-071-075-087-089-093-095-099-101-103-
109-132300-
/O.CON.KWNS.SV.A.0094.000000T0000Z-210413T2300Z/

LA
.   LOUISIANA PARISHES INCLUDED ARE

ASCENSION	ASSUMPTION	IBERIA
IBERVILLE	JEFFERSON	LAFOURCHE
ORLEANS	PLAQUEMINES	ST. BERNARD
ST. CHARLES	ST. JAMES	ST. JOHN THE BAPTIST
ST. MARTIN	ST. MARY	ST. TAMMANY
TERREBONNE		

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GMZ435-455-530-534-538-550-552-555-132300-
/O.CON.KWNS.SV.A.0094.000000T0000Z-210413T2300Z/

CW

.   ADJACENT COASTAL WATERS INCLUDED ARE

VERMILION BAY

COASTAL WATERS FROM LOWER ATCHAFALAYA RIVER TO INTRACOASTAL CITY
LA OUT 20 NM

LAKE PONTCHARTRAIN AND LAKE MAUREPAS

LAKE BORGNE

BRETON SOUND

COASTAL WATERS FROM PORT FOURCHON LA TO LOWER ATCHAFALAYA RIVER
LA OUT 20 NM

COASTAL WATERS FROM THE SOUTHWEST PASS OF THE MISSISSIPPI RIVER
TO PORT FOURCHON LOUISIANA OUT 20 NM

COASTAL WATERS FROM BOOTHVILLE LA TO SOUTHWEST PASS OF THE

MISSISSIPPI RIVER OUT 20 NM

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ATTN...WFO...LIX...LCH...

176
WOUS64 KWNS 131903
WOU4

SEVERE THUNDERSTORM WATCH OUTLINE UPDATE FOR WS 94
NWS STORM PREDICTION CENTER NORMAN OK
203 PM CDT TUE APR 13 2021

SEVERE THUNDERSTORM WATCH 94 REMAINS IN EFFECT UNTIL 600 PM CDT
FOR THE FOLLOWING LOCATIONS

LAC005-007-045-047-051-057-071-075-087-089-093-095-099-101-103-
109-132300-
/O.CON.KWNS.SV.A.0094.000000T0000Z-210413T2300Z/

LA
.   LOUISIANA PARISHES INCLUDED ARE

ASCENSION	ASSUMPTION	IBERIA
IBERVILLE	JEFFERSON	LAFOURCHE
ORLEANS	PLAQUEMINES	ST. BERNARD
ST. CHARLES	ST. JAMES	ST. JOHN THE BAPTIST
ST. MARTIN	ST. MARY	ST. TAMMANY
TERREBONNE		

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GMZ435-455-530-534-538-550-552-555-132300-
/O.CON.KWNS.SV.A.0094.000000T0000Z-210413T2300Z/

CW

.   ADJACENT COASTAL WATERS INCLUDED ARE

VERMILION BAY

COASTAL WATERS FROM LOWER ATCHAFALAYA RIVER TO INTRACOASTAL CITY
LA OUT 20 NM

LAKE PONTCHARTRAIN AND LAKE MAUREPAS

LAKE BORGNE

BRETON SOUND

COASTAL WATERS FROM PORT FOURCHON LA TO LOWER ATCHAFALAYA RIVER
LA OUT 20 NM

COASTAL WATERS FROM THE SOUTHWEST PASS OF THE MISSISSIPPI RIVER
TO PORT FOURCHON LOUISIANA OUT 20 NM

COASTAL WATERS FROM BOOTHVILLE LA TO SOUTHWEST PASS OF THE

MISSISSIPPI RIVER OUT 20 NM

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ATTN...WFO...LIX...LCH...

385
WOUS64 KWNS 131933
WOU4

SEVERE THUNDERSTORM WATCH OUTLINE UPDATE FOR WS 94
NWS STORM PREDICTION CENTER NORMAN OK
233 PM CDT TUE APR 13 2021

SEVERE THUNDERSTORM WATCH 94 REMAINS IN EFFECT UNTIL 600 PM CDT
FOR THE FOLLOWING LOCATIONS

LAC005-007-045-047-051-057-071-075-087-089-093-095-099-101-103-
109-132300-
/O.CON.KWNS.SV.A.0094.000000T0000Z-210413T2300Z/

LA
.   LOUISIANA PARISHES INCLUDED ARE

ASCENSION	ASSUMPTION	IBERIA
IBERVILLE	JEFFERSON	LAFOURCHE
ORLEANS	PLAQUEMINES	ST. BERNARD
ST. CHARLES	ST. JAMES	ST. JOHN THE BAPTIST
ST. MARTIN	ST. MARY	ST. TAMMANY
TERREBONNE		

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GMZ435-455-530-534-538-550-552-555-132300-
/O.CON.KWNS.SV.A.0094.000000T0000Z-210413T2300Z/

CW

.   ADJACENT COASTAL WATERS INCLUDED ARE

VERMILION BAY

COASTAL WATERS FROM LOWER ATCHAFALAYA RIVER TO INTRACOASTAL CITY
LA OUT 20 NM

LAKE PONTCHARTRAIN AND LAKE MAUREPAS

LAKE BORGNE

BRETON SOUND

COASTAL WATERS FROM PORT FOURCHON LA TO LOWER ATCHAFALAYA RIVER
LA OUT 20 NM

COASTAL WATERS FROM THE SOUTHWEST PASS OF THE MISSISSIPPI RIVER
TO PORT FOURCHON LOUISIANA OUT 20 NM

COASTAL WATERS FROM BOOTHVILLE LA TO SOUTHWEST PASS OF THE

MISSISSIPPI RIVER OUT 20 NM

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ATTN...WFO...LIX...LCH...

439
WOUS64 KWNS 132003
WOU4

SEVERE THUNDERSTORM WATCH OUTLINE UPDATE FOR WS 94
NWS STORM PREDICTION CENTER NORMAN OK
303 PM CDT TUE APR 13 2021

SEVERE THUNDERSTORM WATCH 94 REMAINS IN EFFECT UNTIL 600 PM CDT
FOR THE FOLLOWING LOCATIONS

LAC005-007-045-047-051-057-071-075-087-089-093-095-099-101-103-
109-132300-
/O.CON.KWNS.SV.A.0094.000000T0000Z-210413T2300Z/

LA
.   LOUISIANA PARISHES INCLUDED ARE

ASCENSION	ASSUMPTION	IBERIA
IBERVILLE	JEFFERSON	LAFOURCHE
ORLEANS	PLAQUEMINES	ST. BERNARD
ST. CHARLES	ST. JAMES	ST. JOHN THE BAPTIST
ST. MARTIN	ST. MARY	ST. TAMMANY
TERREBONNE		

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GMZ435-455-530-534-538-550-552-555-132300-
/O.CON.KWNS.SV.A.0094.000000T0000Z-210413T2300Z/

CW

.   ADJACENT COASTAL WATERS INCLUDED ARE

VERMILION BAY

COASTAL WATERS FROM LOWER ATCHAFALAYA RIVER TO INTRACOASTAL CITY
LA OUT 20 NM

LAKE PONTCHARTRAIN AND LAKE MAUREPAS

LAKE BORGNE

BRETON SOUND

COASTAL WATERS FROM PORT FOURCHON LA TO LOWER ATCHAFALAYA RIVER
LA OUT 20 NM

COASTAL WATERS FROM THE SOUTHWEST PASS OF THE MISSISSIPPI RIVER
TO PORT FOURCHON LOUISIANA OUT 20 NM

COASTAL WATERS FROM BOOTHVILLE LA TO SOUTHWEST PASS OF THE

MISSISSIPPI RIVER OUT 20 NM

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ATTN...WFO...LIX...LCH...

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972
WOUS64 KWNS 132033
WOU4

SEVERE THUNDERSTORM WATCH OUTLINE UPDATE FOR WS 94
NWS STORM PREDICTION CENTER NORMAN OK
333 PM CDT TUE APR 13 2021

SEVERE THUNDERSTORM WATCH 94 REMAINS IN EFFECT UNTIL 600 PM CDT
FOR THE FOLLOWING LOCATIONS

LAC005-007-045-047-051-057-071-075-087-089-093-095-099-101-103-
109-132300-
/O.CON.KWNS.SV.A.0094.000000T0000Z-210413T2300Z/

LA
.    LOUISIANA PARISHES INCLUDED ARE

ASCENSION            ASSUMPTION          IBERIA
IBERVILLE            JEFFERSON           LAFOURCHE
ORLEANS              PLAQUEMINES         ST. BERNARD
ST. CHARLES          ST. JAMES           ST. JOHN THE BAPTIST
ST. MARTIN           ST. MARY            ST. TAMMANY
TERREBONNE
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GMZ435-455-530-534-538-550-552-555-132300-
/O.CON.KWNS.SV.A.0094.000000T0000Z-210413T2300Z/

CW

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MISSISSIPPI RIVER OUT 20 NM

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ATTN...WFO...LIX...LCH...