

A Look at the Hurricane Helene Rainfall Machine

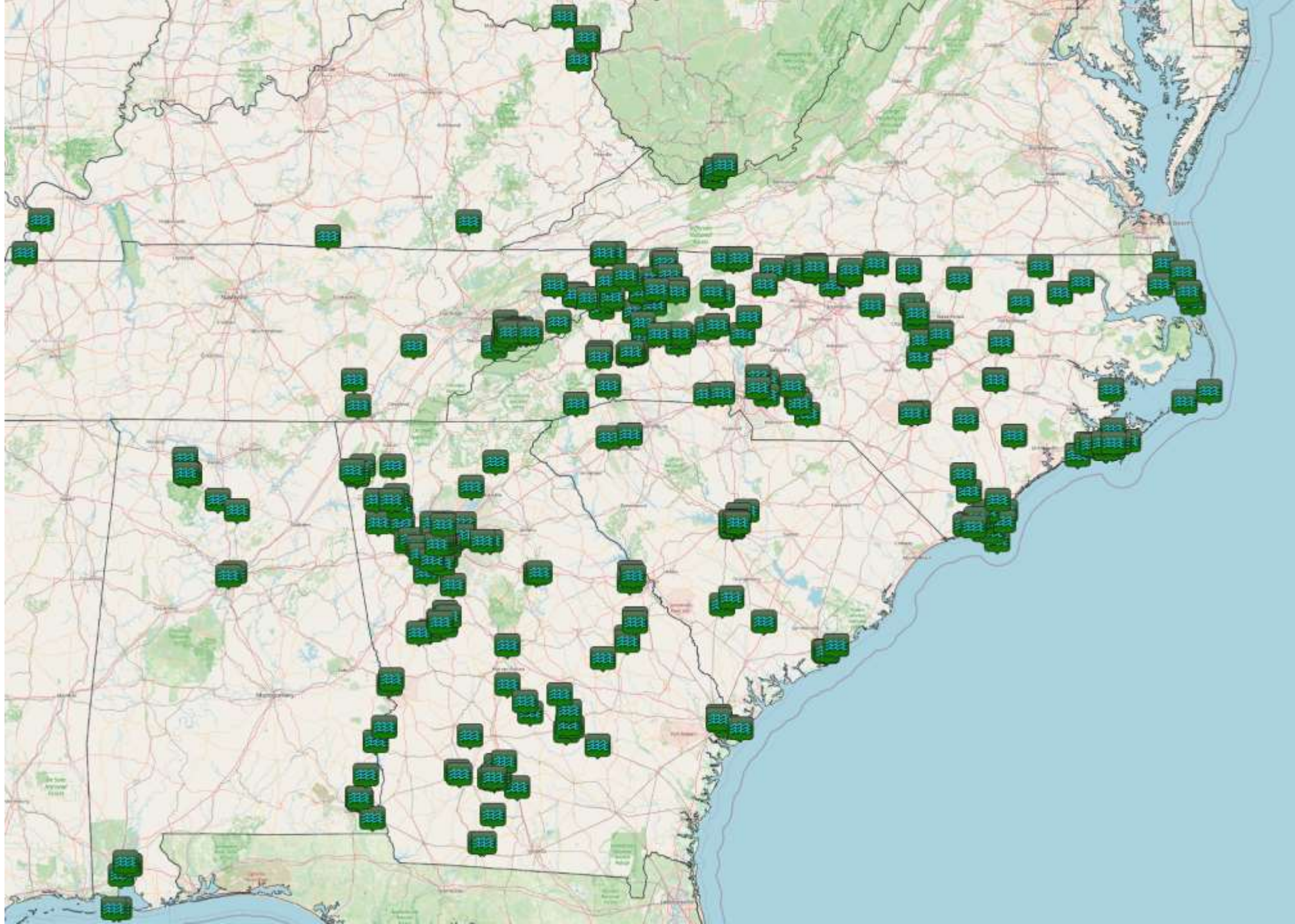
Jason Holmes

NWS WFO Birmingham, AL

All Flood and Flash Flood Local Storm Reports

09/23/24-09/29/24

Courtesy: IEM Storm
Report App



Storm Total Rainfall Amount Summary Produced by NWS WPC

Filtered to reports of 6 inches or more

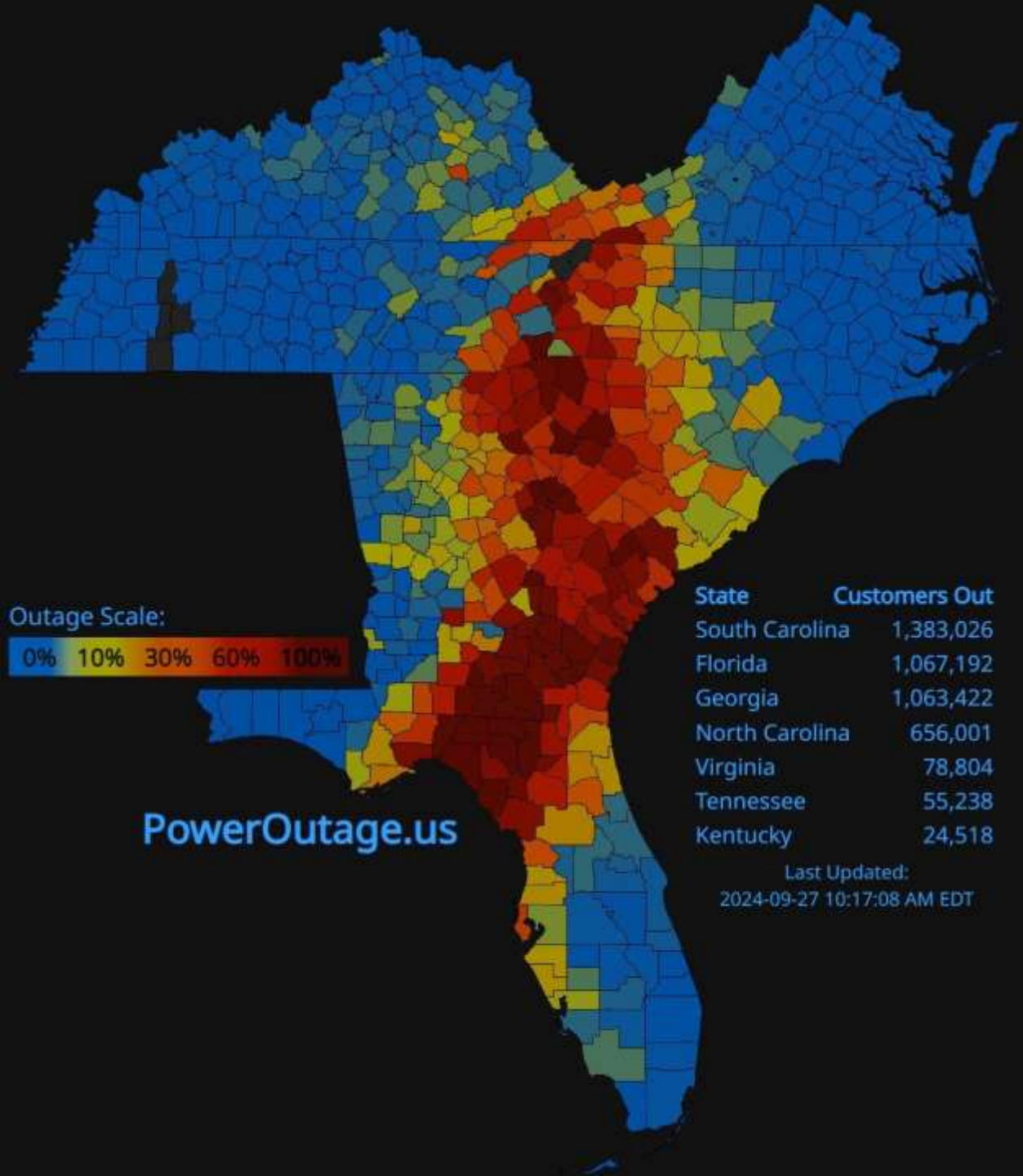
30.78	BUSICK RAWS, NC
24.20	MOUNT MITCHELL STATE PARK, NC
23.25	SPRUCE PINE 6.6 SW, NC
21.47	FOSCOE 1.2 WSW, NC
20.12	BOONE 3.8 ENE, NC
19.98	HENDERSONVILLE 6.1 SSW, NC
19.15	DAVIDSON RIVER RAWS, NC
15.91	SUMATRA, FL
15.60	OLD FORT 4.9 SW, NC
15.28	GRANDFATHER RAWS, NC
15.28	GUION FARM RAWS, NC
15.22	SWANNANOA 2.6 WNW, NC
15.17	NORTH COVE PINNACLE RAWS, NC
14.89	HIGHLANDS RAWS, NC
14.58	SALLIDA 5 N, NC
14.35	BANNER ELK 1.3 W, NC
14.35	SPARTA 0.8 W, NC
14.34	TABLE ROCK RAWS, SC
14.22	TALLULAH RAWS, GA
14.17	LINVILLE FALLS 5 SW, NC
14.06	DILLARD 3.5 NE, GA
13.89	MCDONOUGH 3.6 E, GA
13.78	SALEM 1.8 NE, SC
13.65	WHITEHEAD 2.5 S, NC
13.47	LONG CANE PORTABLE RAWS, SC
13.18	BRASSTOWN, GA
13.15	ASHEVILLE 4.1 ESE, NC
13.03	MCCORMICK 12.9 E, SC
12.85	FORT EISENHOWER, GA
12.71	EAST POINT, GA
12.55	AUGUSTA 3.0 WNW, GA
12.51	NORTH DECATUR 3 NNE, GA
12.51	NORTH DECATUR 3.0 NNE, GA
12.39	SUNSET 2.9 W, SC
12.37	EVANS 5.3 WNW, GA
12.17	DUNWOODY 1.2 SW, GA
12.14	LOUISVILLE RAWS, GA
12.00	LIBERTY 4.3 SSE, SC
11.94	WILMA, FL
11.72	ALFORD 0.6 SSE, FL
11.65	TUCKER 2.3 NNE, GA
11.62	ATLANTA 5.3 NE, GA
11.50	JONESBORO 2.8 SSE, GA
11.48	HARTWELL 5.6 NW, GA
11.45	ADAIRSVILLE 6.4 WSW, GA
11.45	PICKENS 1.5 WSW, SC
11.44	DECATUR 1.2 NE, GA
11.43	WALHALLA 1.5 NW, SC
11.40	IVA 3.1 NE, SC
11.10	BELTON 4.7 W, SC
10.93	SESNeca 8.8 N, SC
10.76	COLUMBIA 2.1 NNW, SC
10.75	GULF COUNTY SALINAS PARK, FL
10.38	LAURENS 1.1 SSW, SC
10.30	MIDWAY 6.9 SW, FL
9.55	HWY 104 @ KIOKEE CREEK, SC
9.49	INDEPENDENCE 1.3 VA
9.42	EUFULA MUNI AP, AL
9.41	TAYLORS 2.8 NNW, SC
9.39	SIX MILE 2.1 NE, SC
9.35	DENTSVILLE 6.6 NNE, SC
9.32	ST GEORGE ISLAND LIGHTHOUSE, FL
9.32	MARTINEZ, SC
9.23	SWANSEA 3.5 NE, SC
9.20	APALACHICOLA, FL
9.17	WEST UNION, SC
9.09	BLOXHAM RAWS, FL
8.92	BENTON 2.3 ESE, TN
8.79	QUINCY 7.5 SSW, FL
8.75	APPLACHICOLA, FL
8.64	MARIANNA 0.8 NNE, FL
8.55	GRACEVILLE 7 S, FL
8.50	PANSEY 1.6 NNE, AL
8.11	GALAX 5.3 SW, VA
7.73	MARIANNA MUNICIPAL AIRPORT, FL
7.71	EUFULA RAWS, AL
7.60	FOUNTAIN 3.4 SSE, FL
7.55	NORA 4 SSE, VA
7.28	EUFULA 6.8 S, AL
7.28	INDIAN GRAVE RAWS, TN
7.22	SEVIERVILLE 3.8 SE, TN
7.17	SENEEDVILLE 9.5 WSW, TN
7.15	ELKHORN, WV
7.13	AUBURN-OPELIKA AP, AL
7.06	HAVANA 5.5 NE, FL
7.04	TROUTDALE 8.7 SW, VA
6.98	MARYVILLE 5.8 ESE, TN
6.94	WELCH, WV
6.90	CROZET 1.3 W, VA
6.86	PHENIX CITY 5 WNW, AL
6.76	WENONAH 3.9 NW, WV
6.65	BLUEFIELD 4.8 NNW, WV
6.59	BLOXHAM 2 SSE, FL
6.48	GATE CITY 6.2 NNE, VA
6.35	HILLSVILLE, VA
6.22	FORT MITCHELL 2.3 SSW, AL
6.13	TALLAHASSEE FORTESTRY RAWS, FL
6.12	TELLICO TAWS, TN
6.11	OCOE RAWS, TN
6.01	THURMOND, WV
6.00	PADUCAH, KY

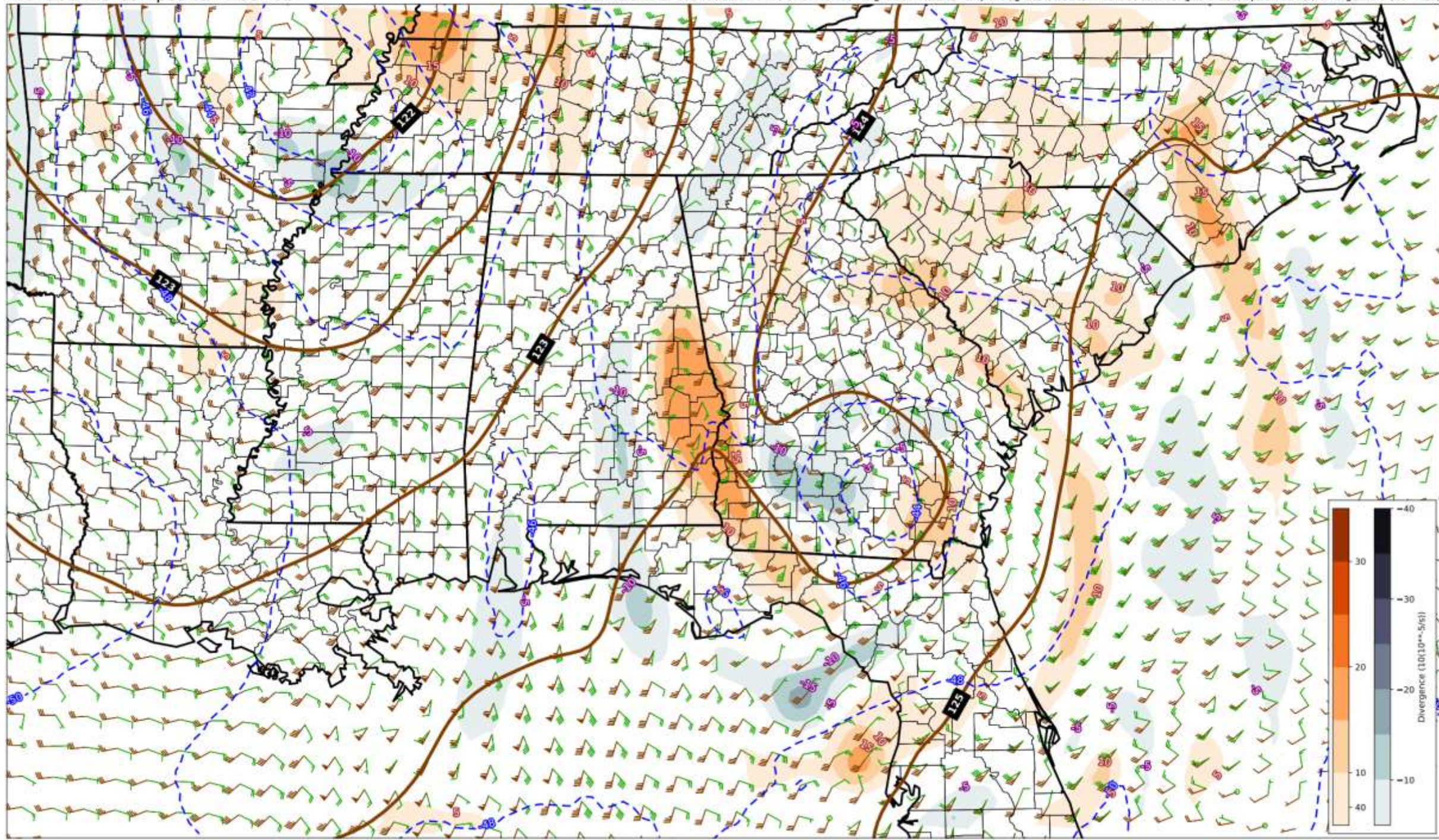
NWS GSP Local Storm Reports for Flood and Flash Flood from 09/23/24 – 09/29/24 (UTC time)

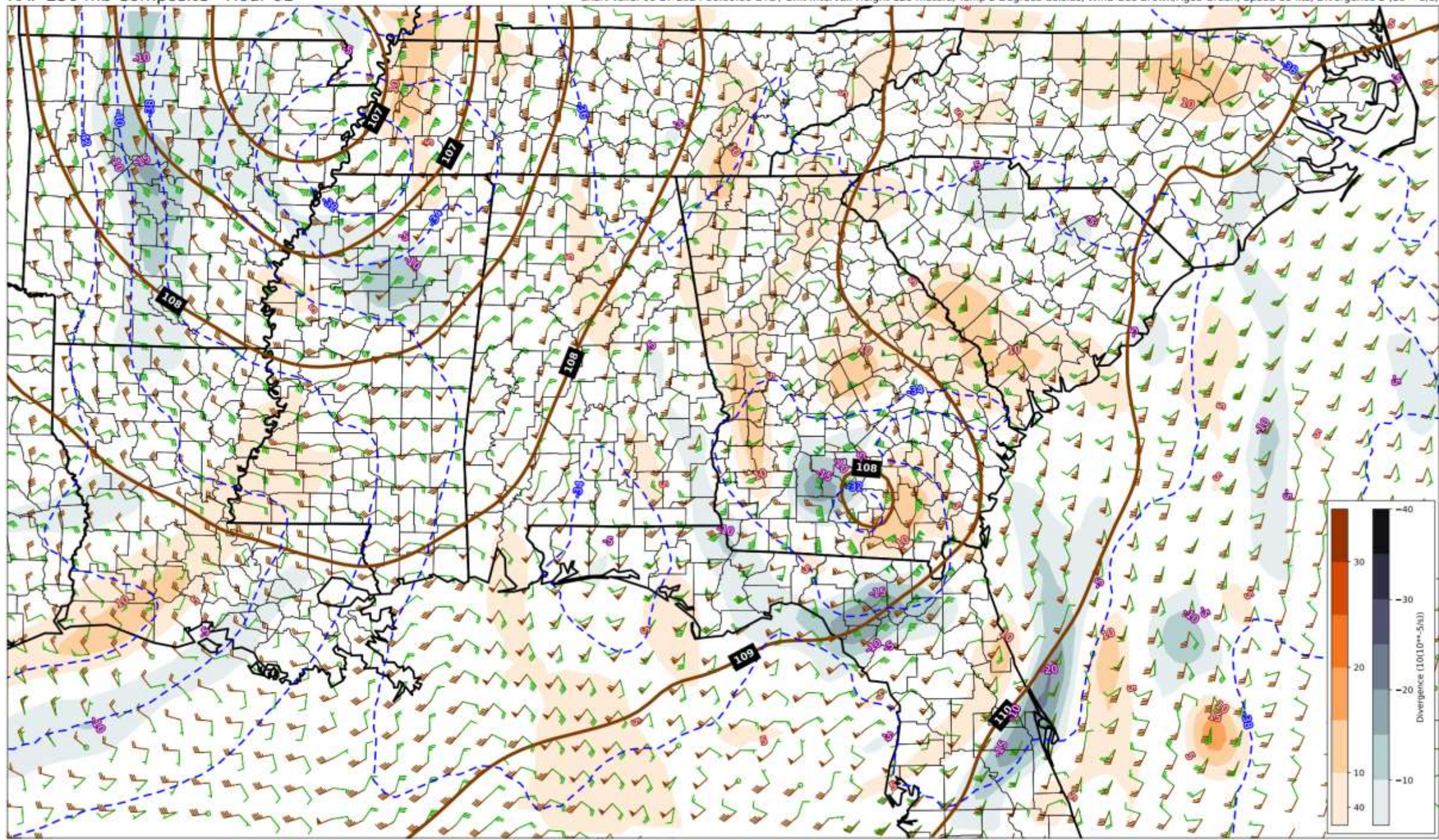
9/25/2024 23:14	Buncombe,NC	2 E Woodfin	Several reports of urban flooding around the city of Asheville including a creek that flooded out of its banks near the Asheville Country Club and Elk Mountain Scenic Highway.
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9/26/2024 4:15	McDowell,NC	2 E Old Fort	Emergency manager reported water rescues of motorists from stranded vehicles on Parker Padgett Rd at the Catawba River.
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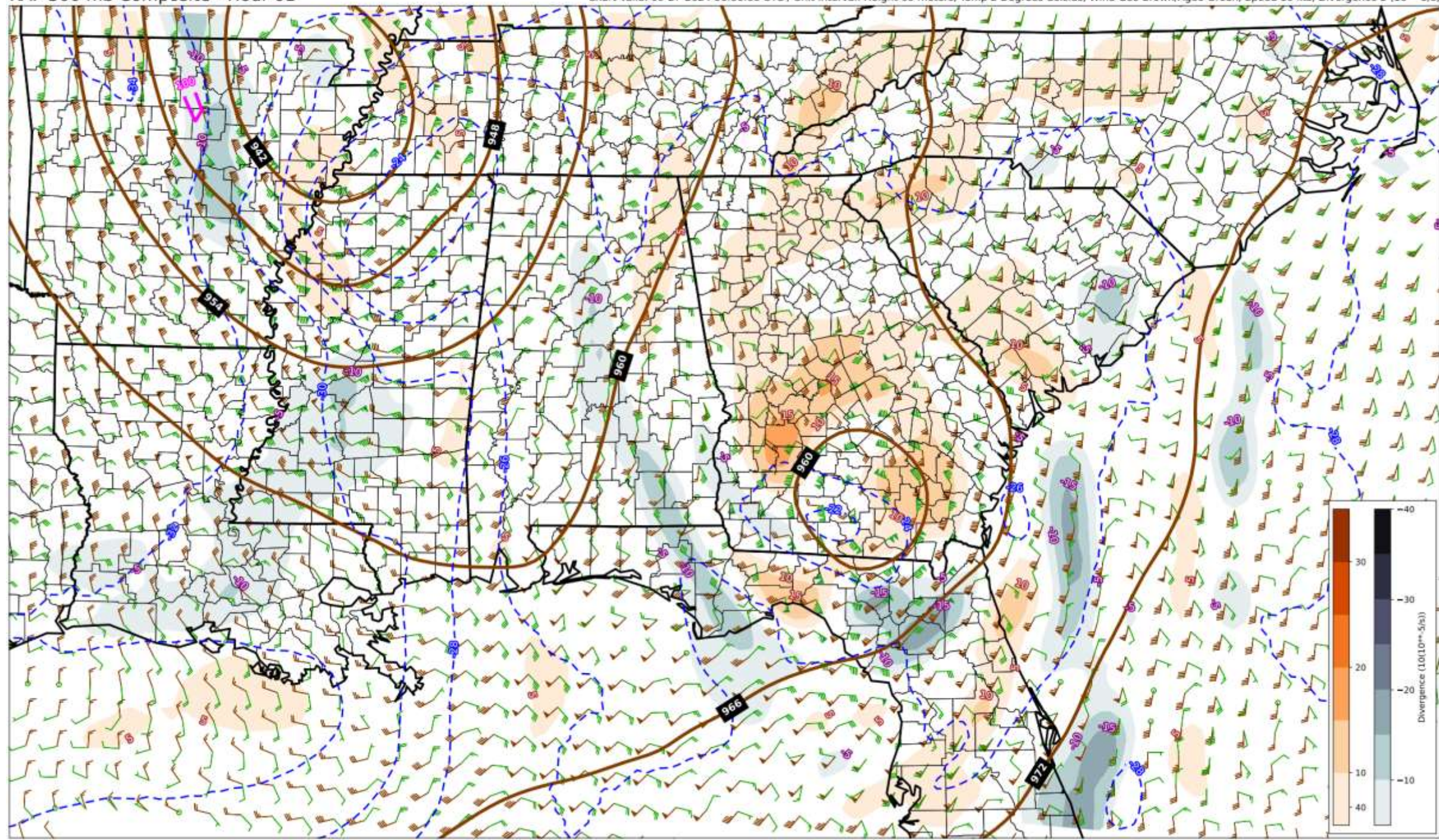
Increasing Impact over
a Shorter Time Frame
in the 1 am (6z Hour)

09/27/24 10:48 am

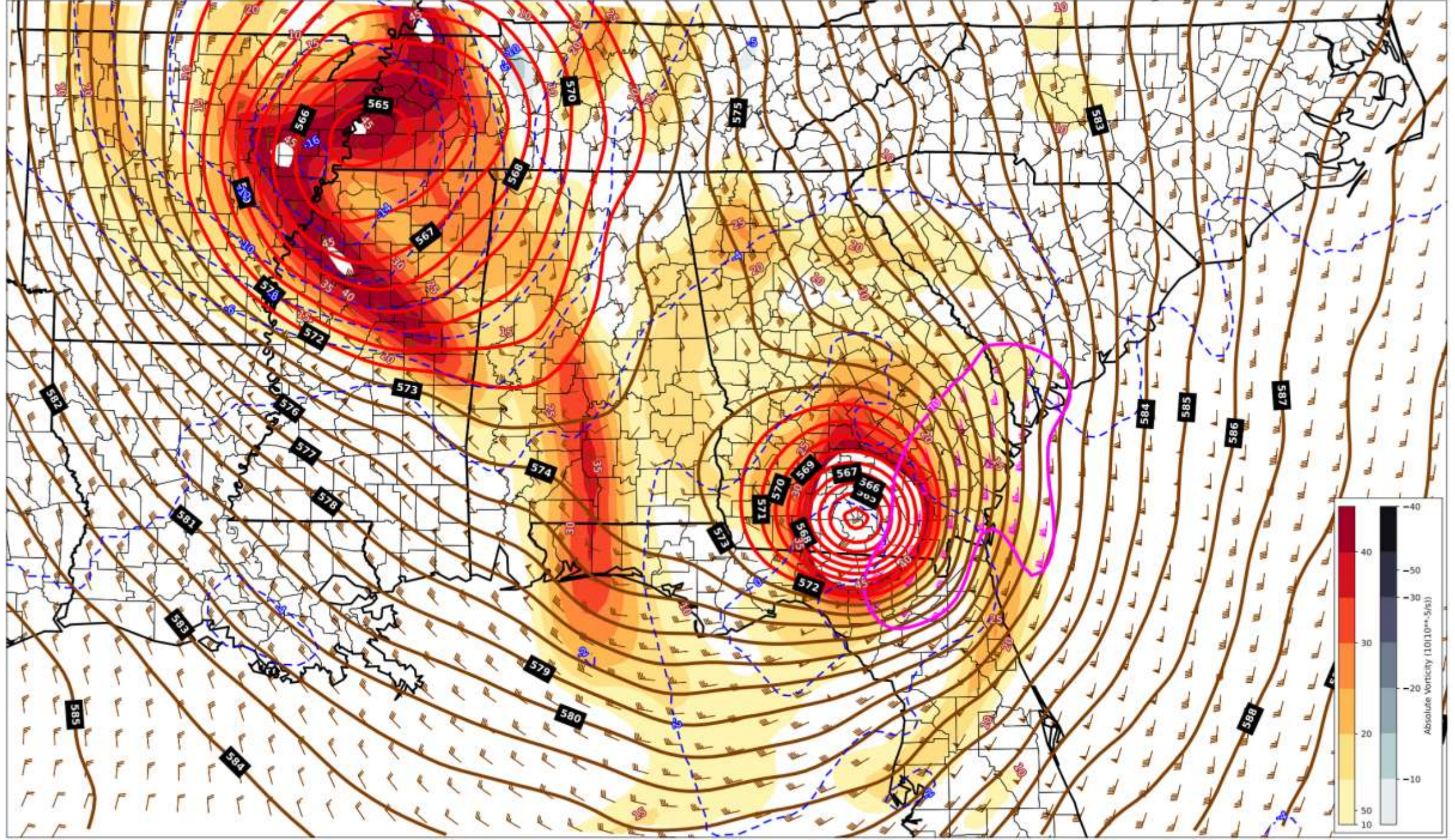


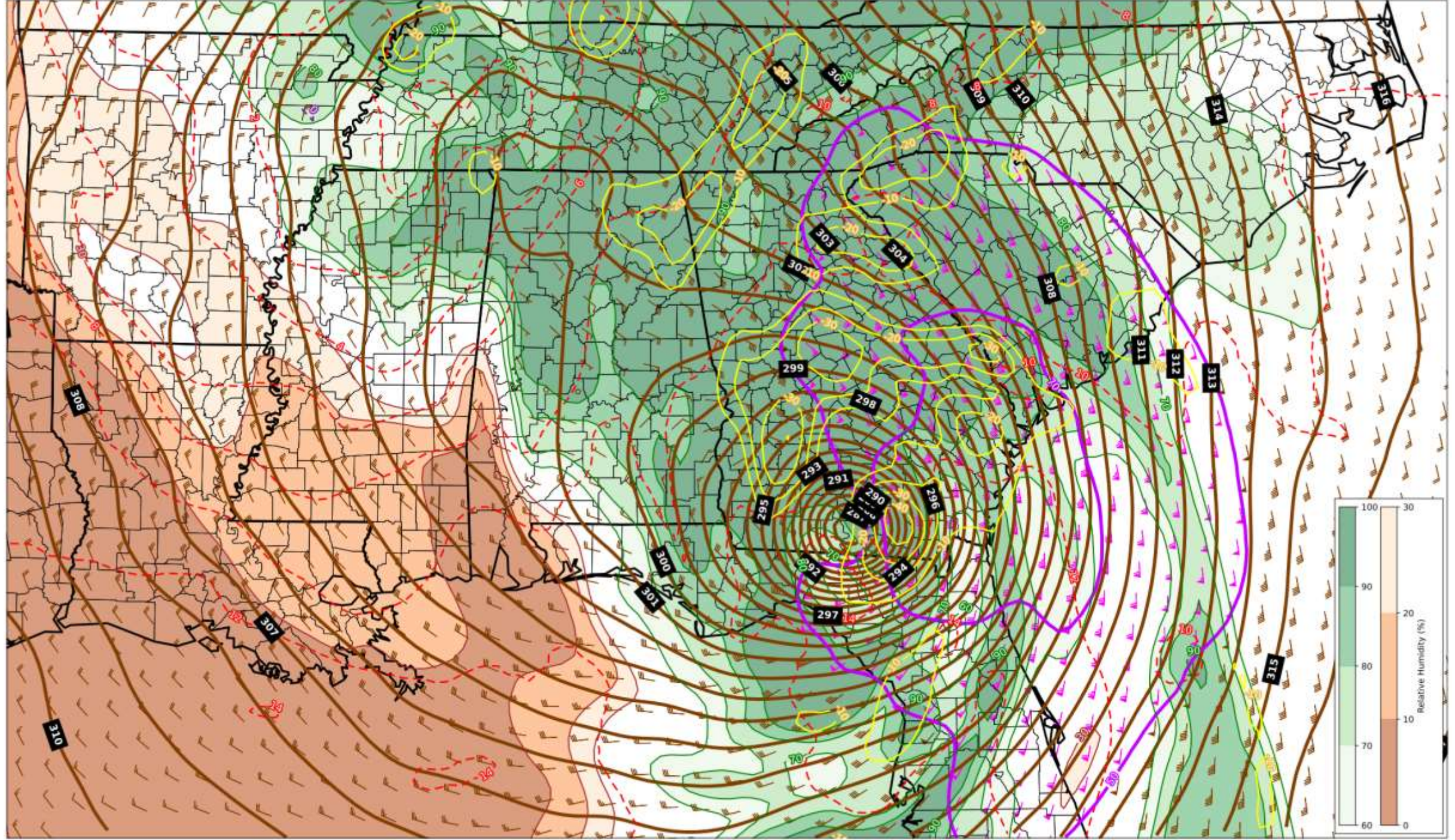




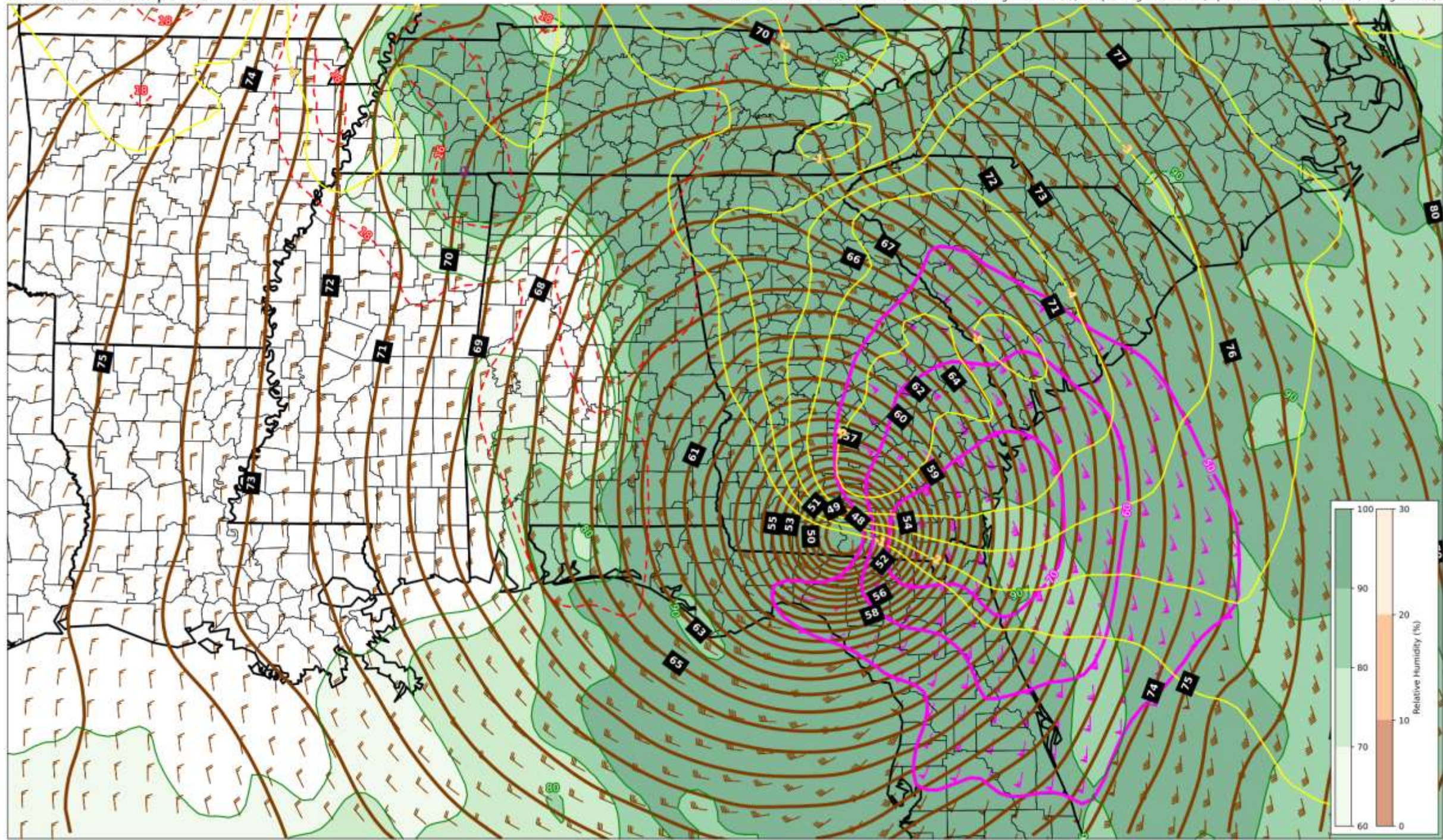


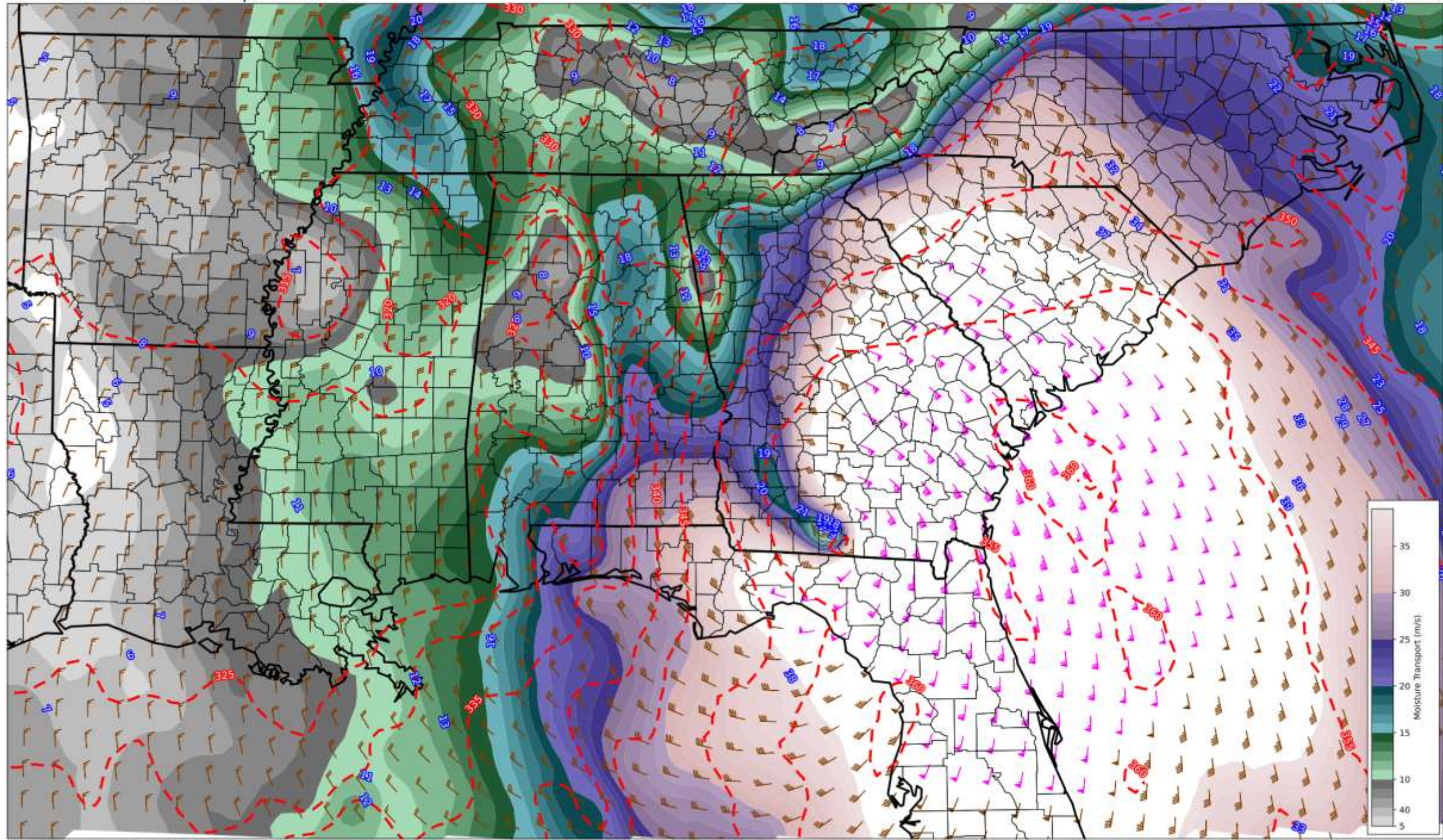
RAP 500 mb Composite - Hour 01

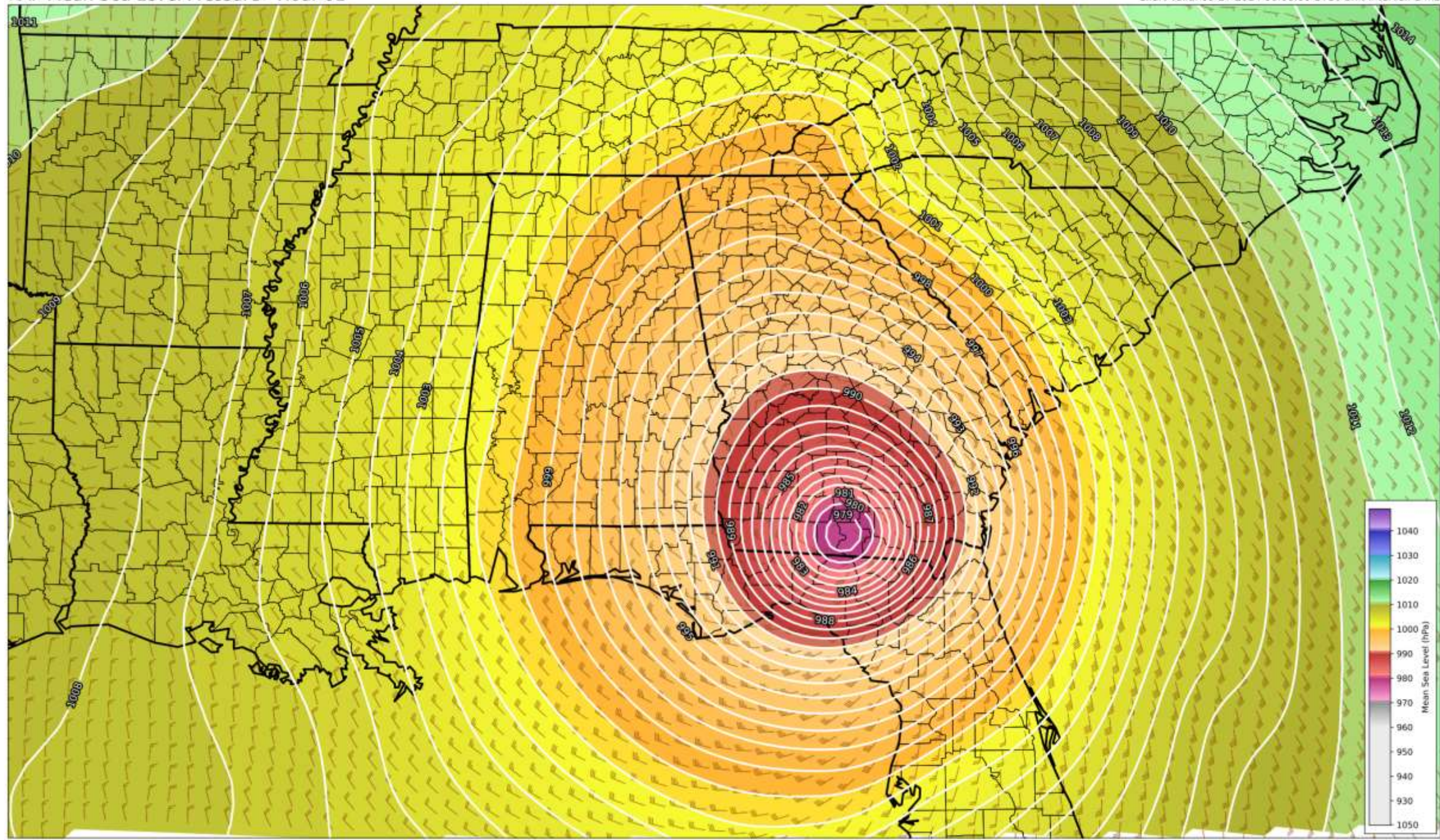


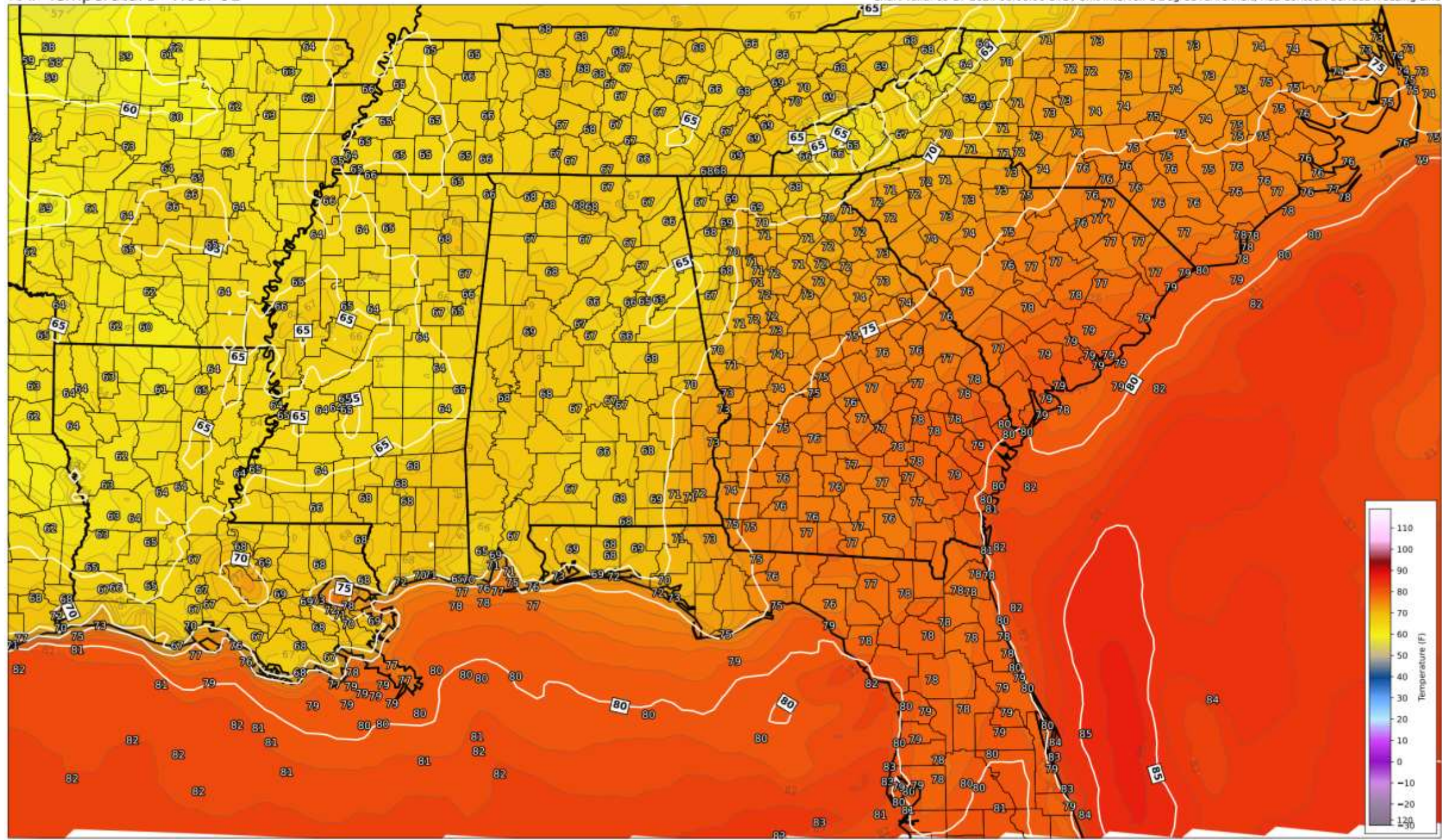


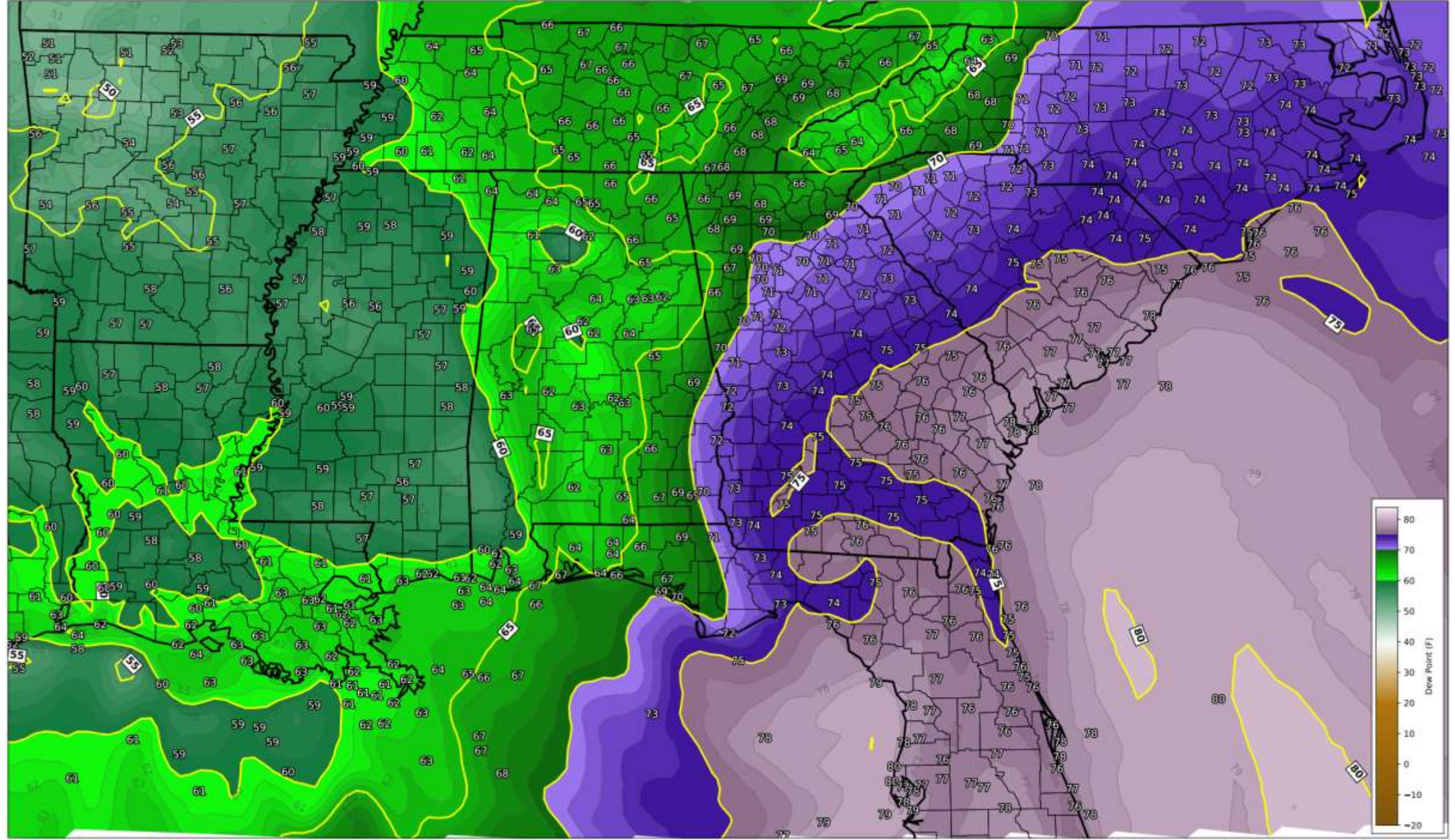
This meteorological map displays a low-pressure system centered over the central United States. The system is characterized by a cold front extending to the northwest and a warm front extending to the southeast. The map includes isobars (lines of equal pressure) and isotherms (lines of equal temperature). A color scale in the bottom right corner indicates relative humidity percentages, ranging from 60% (dark blue) to 100% (dark red). The map also shows state boundaries and major cities.

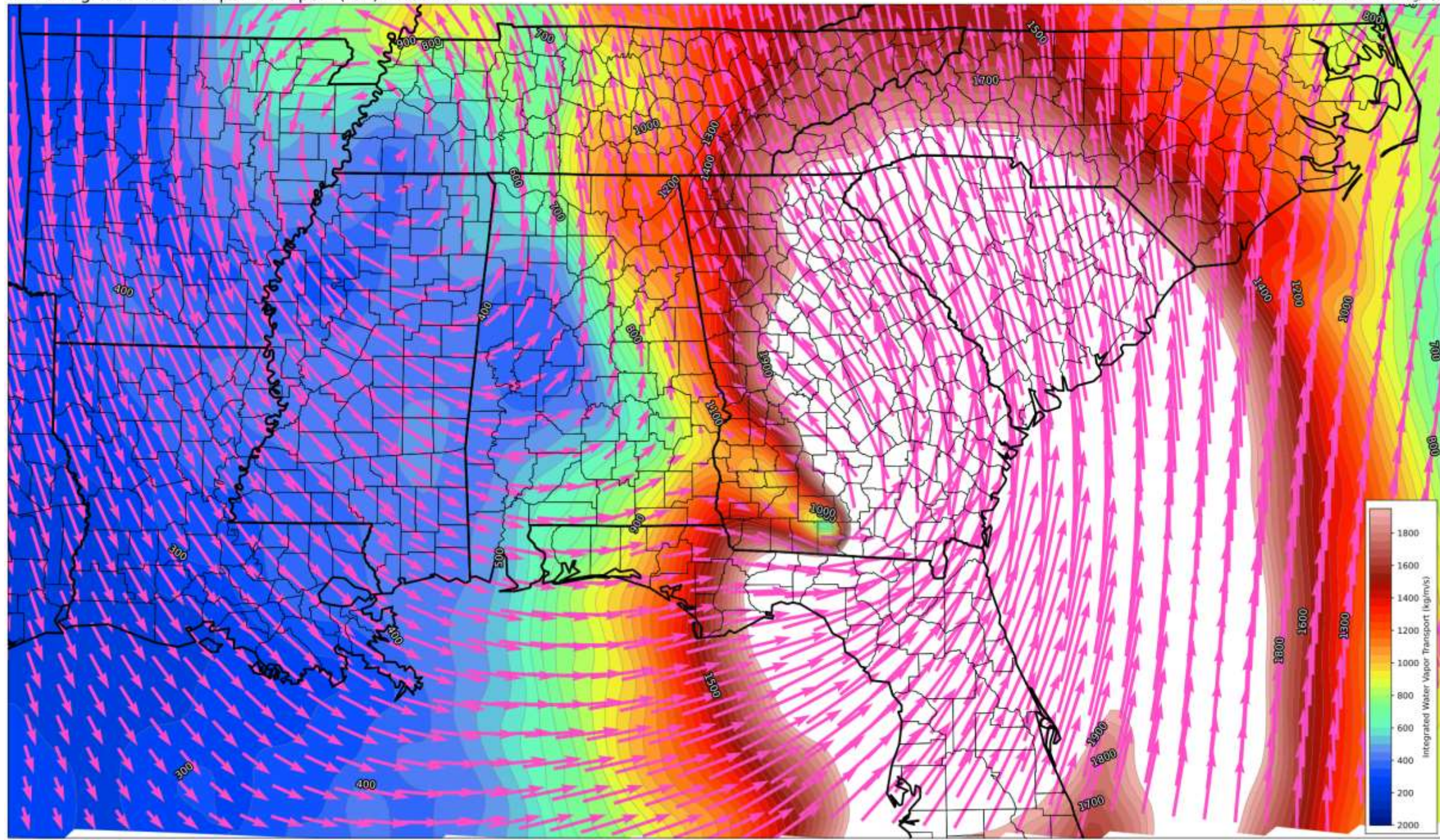


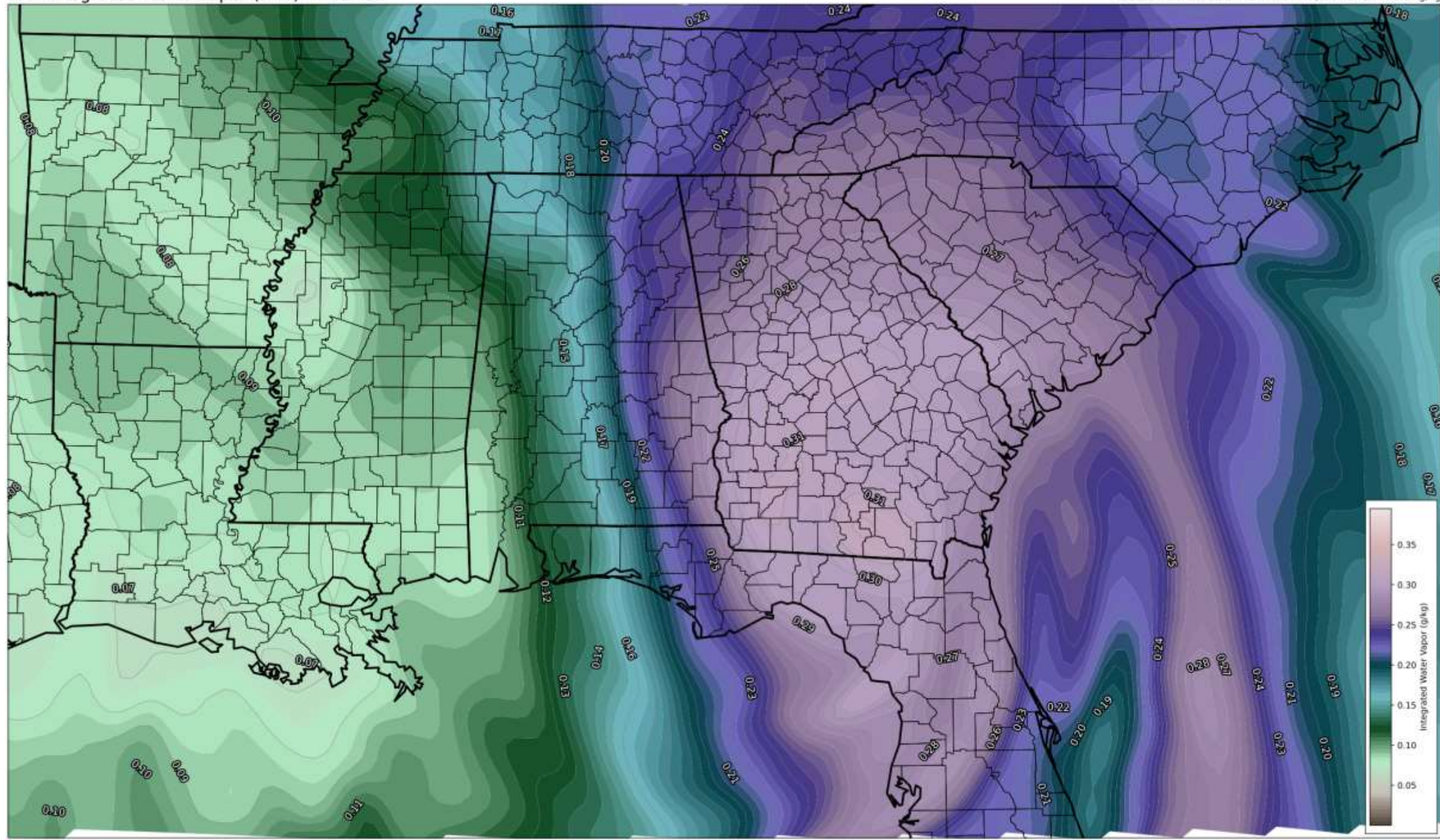


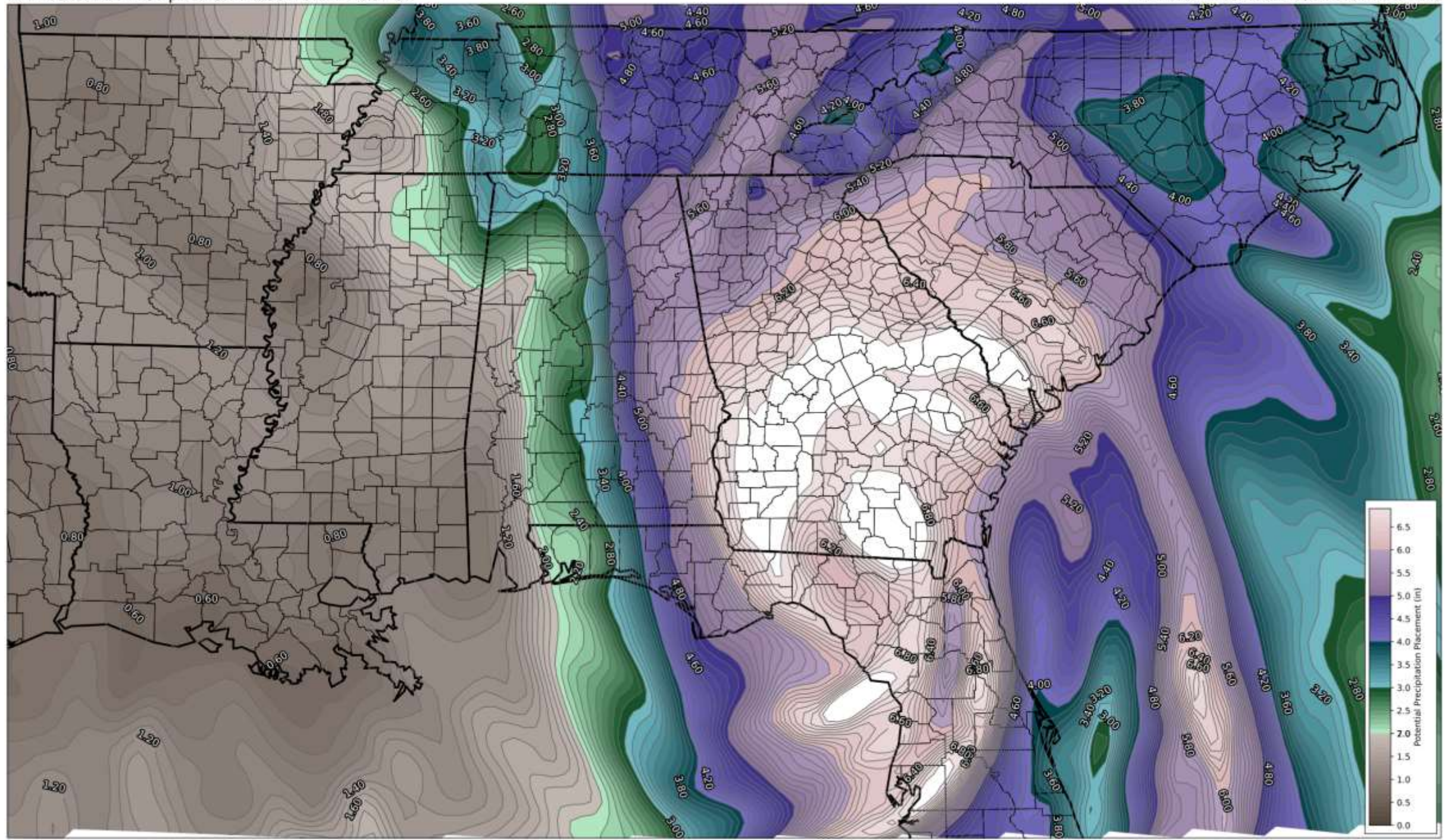


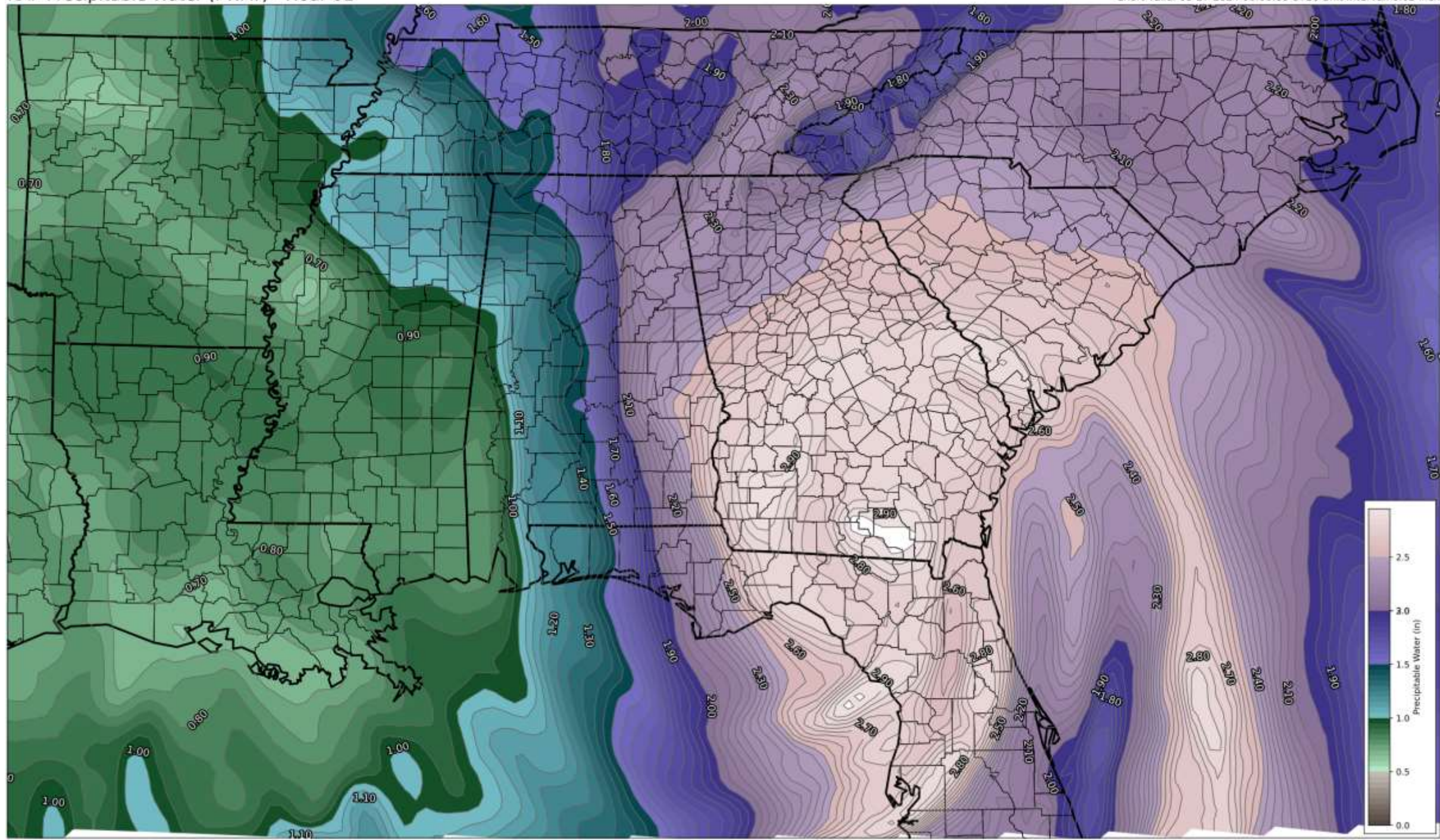


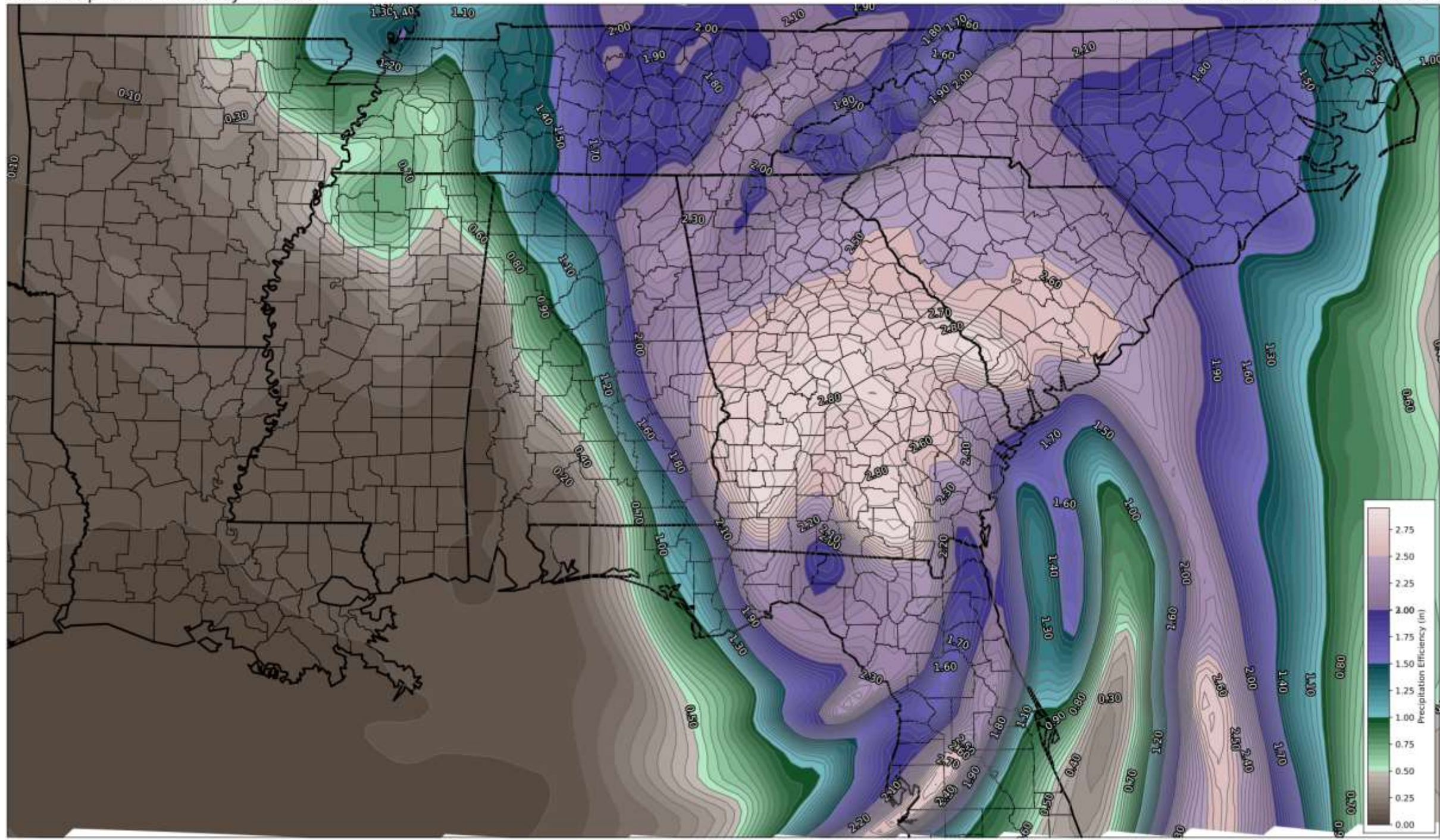


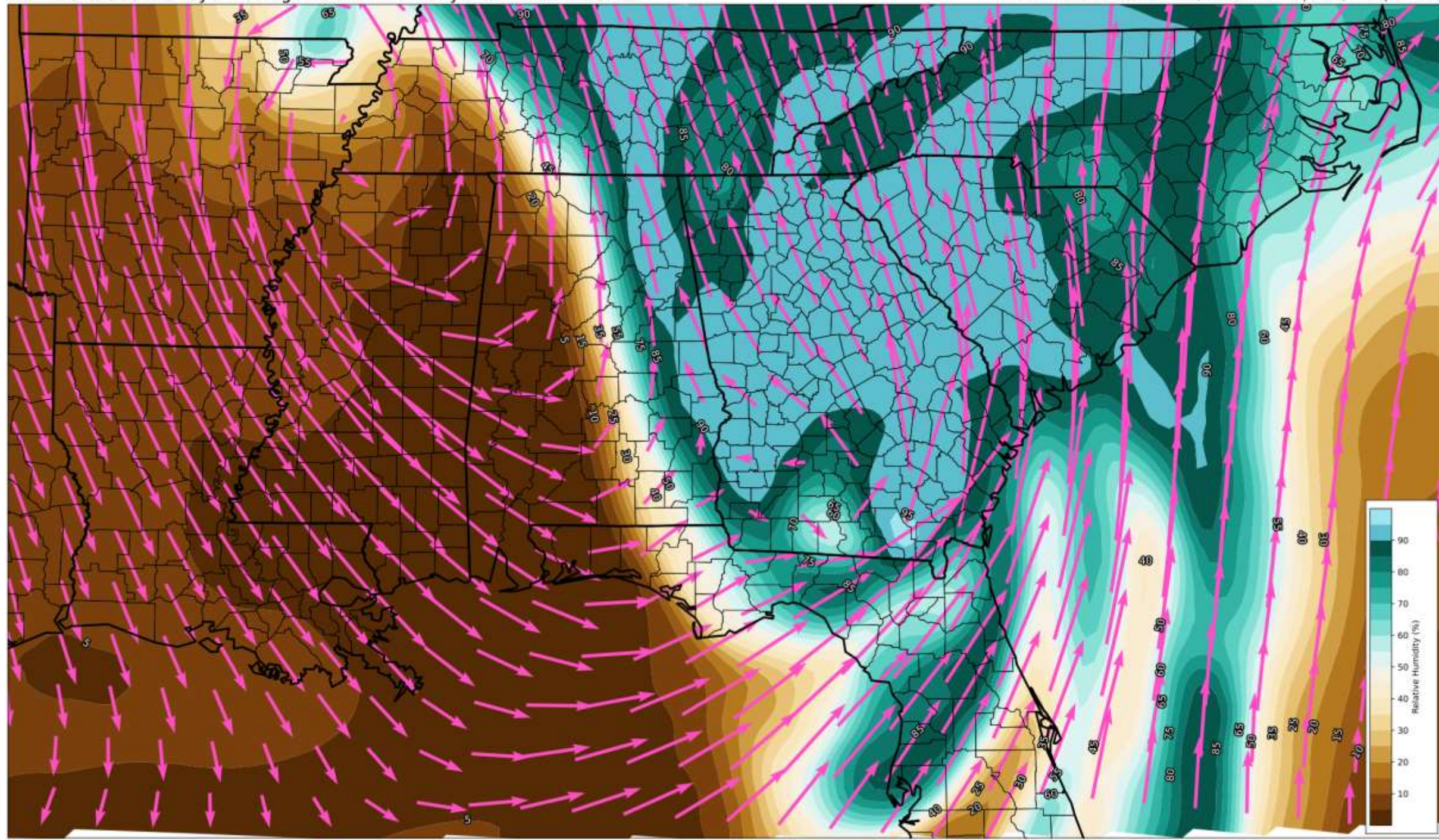


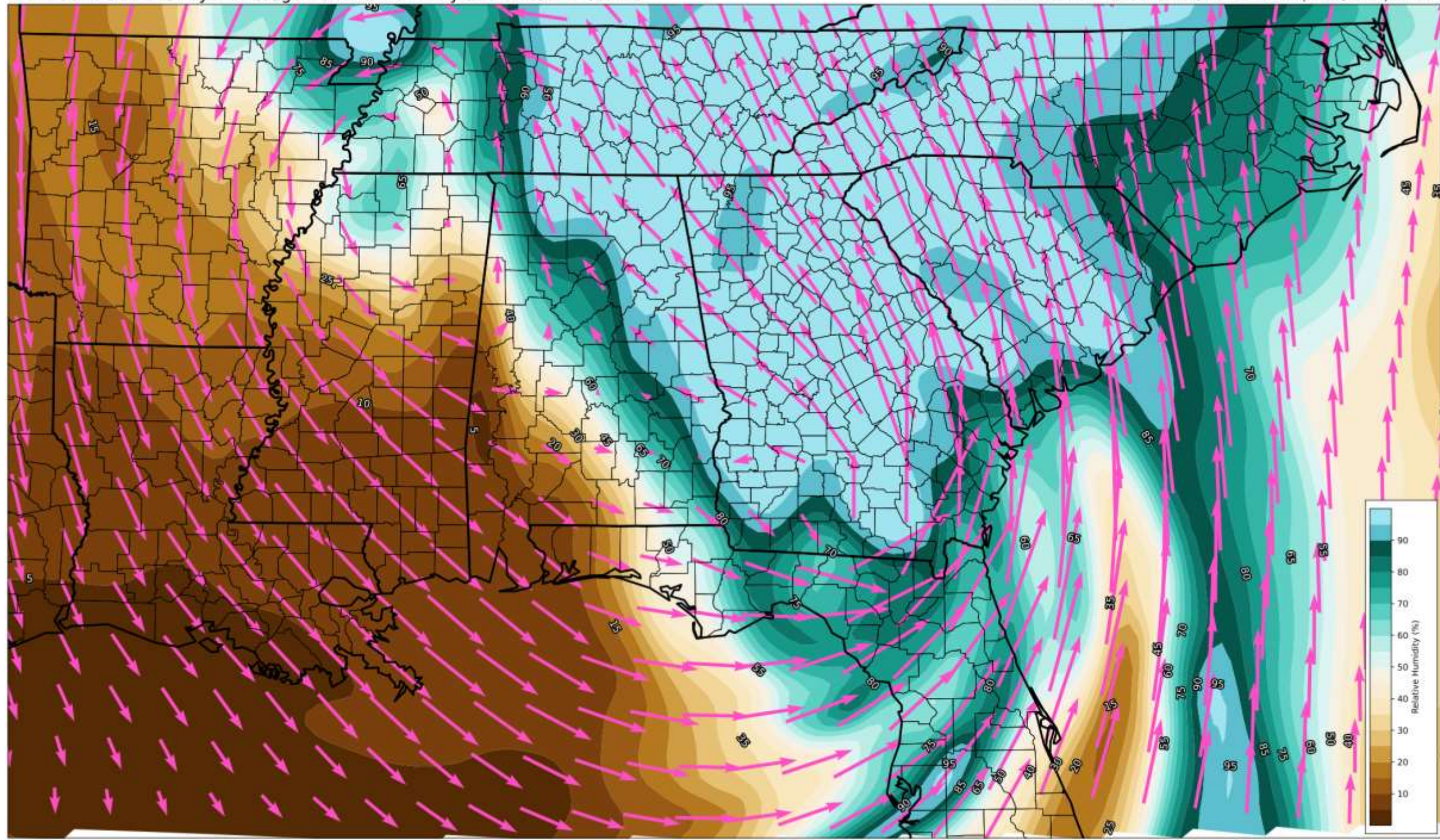


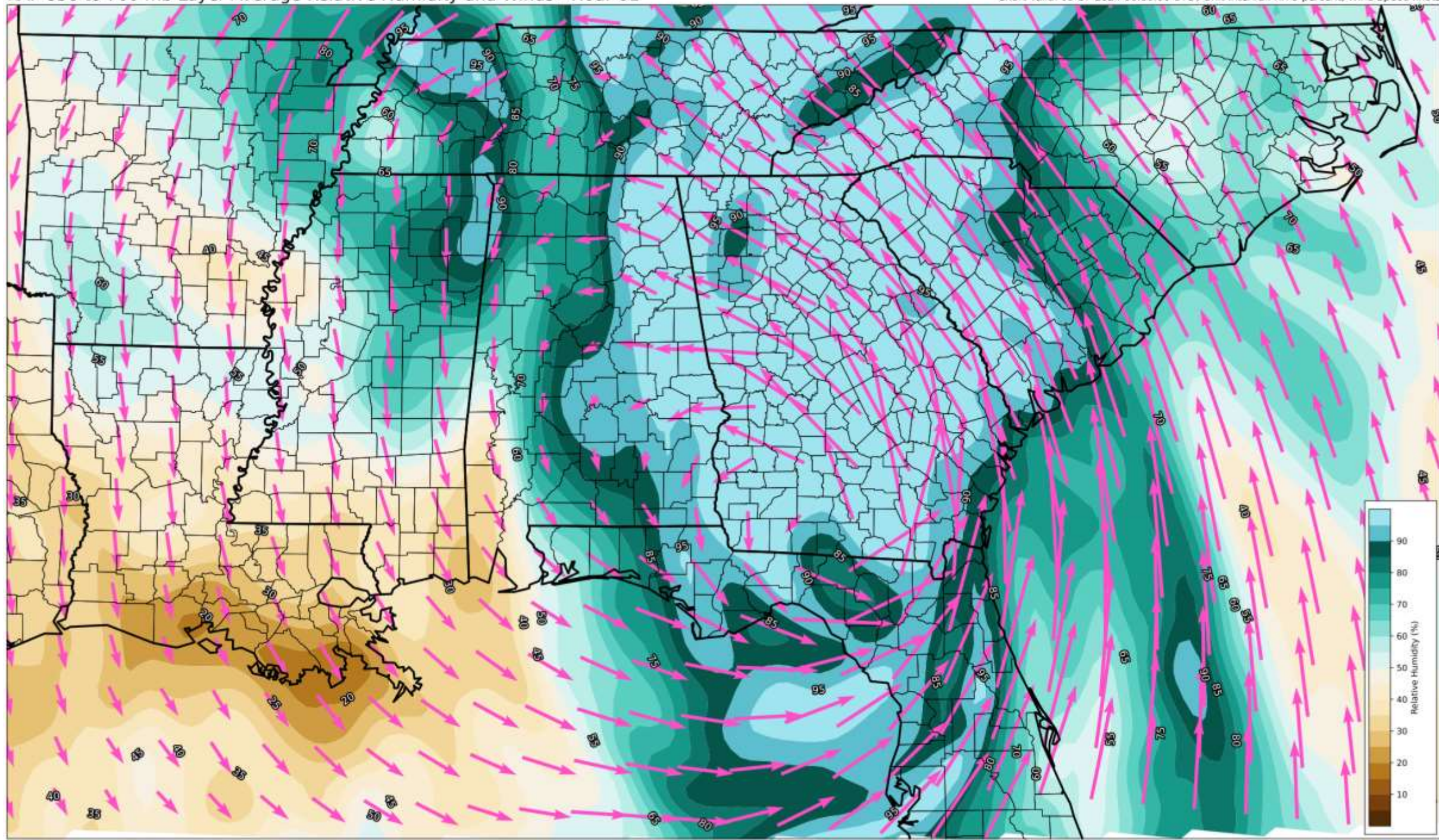


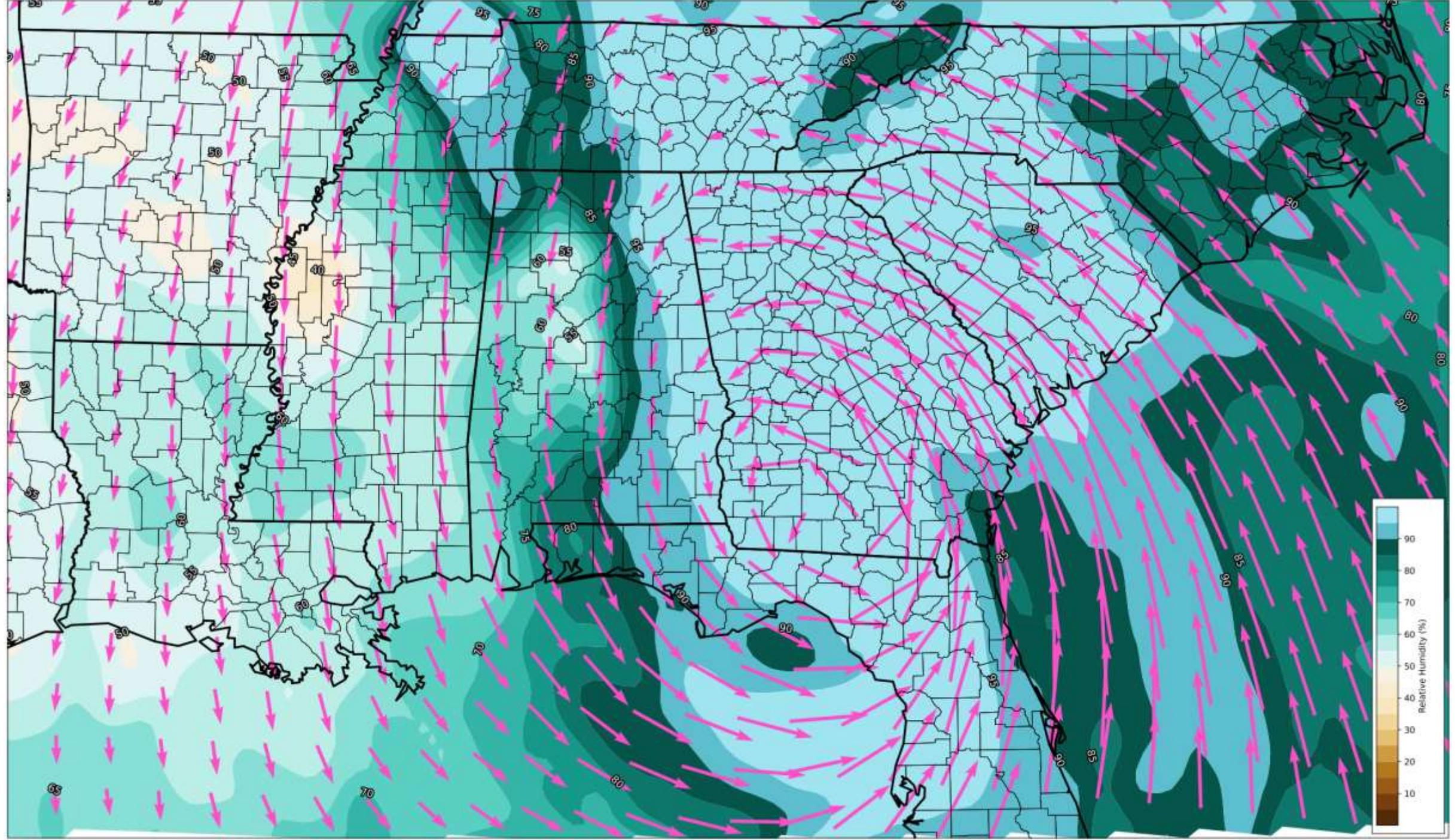


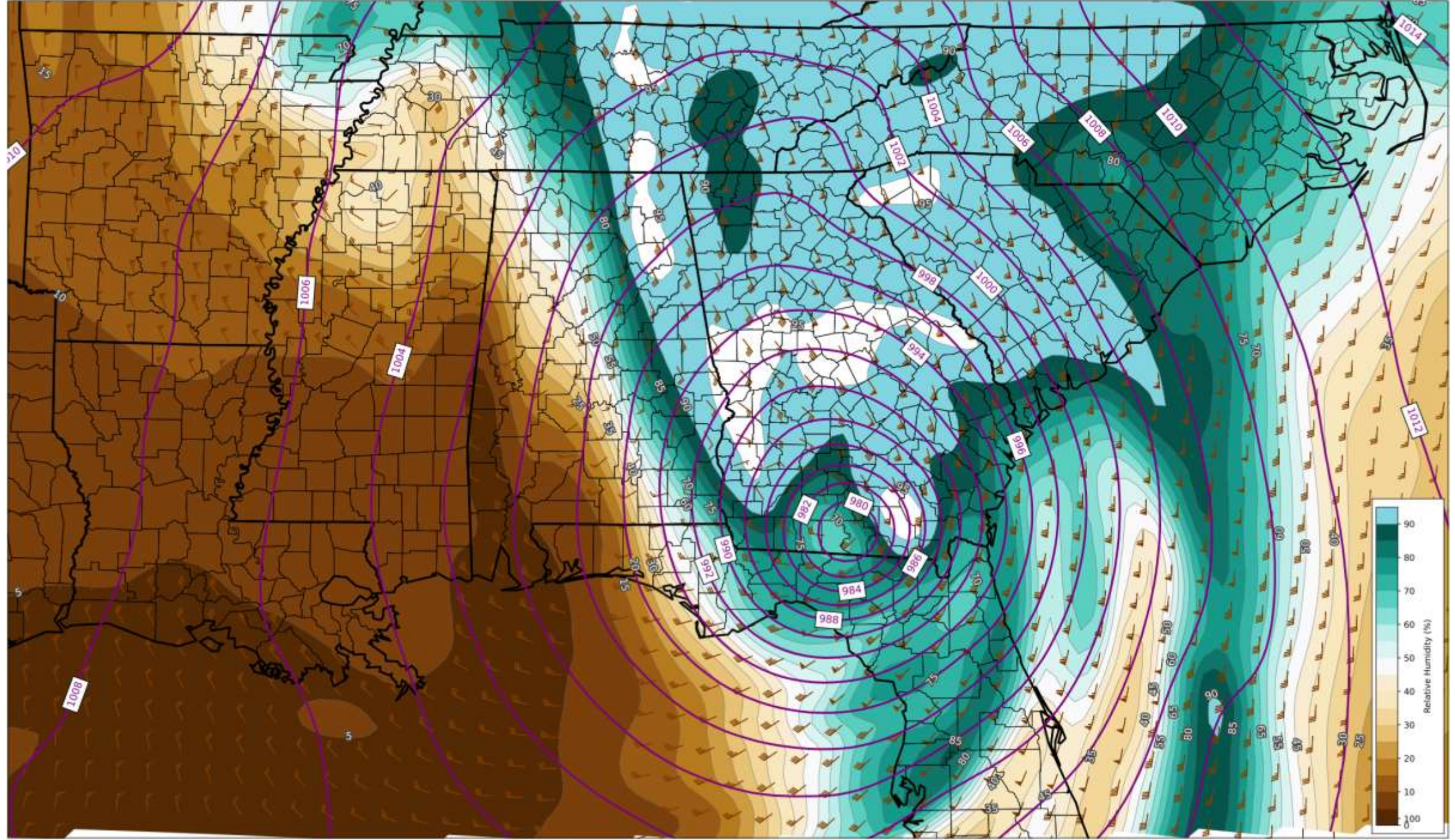


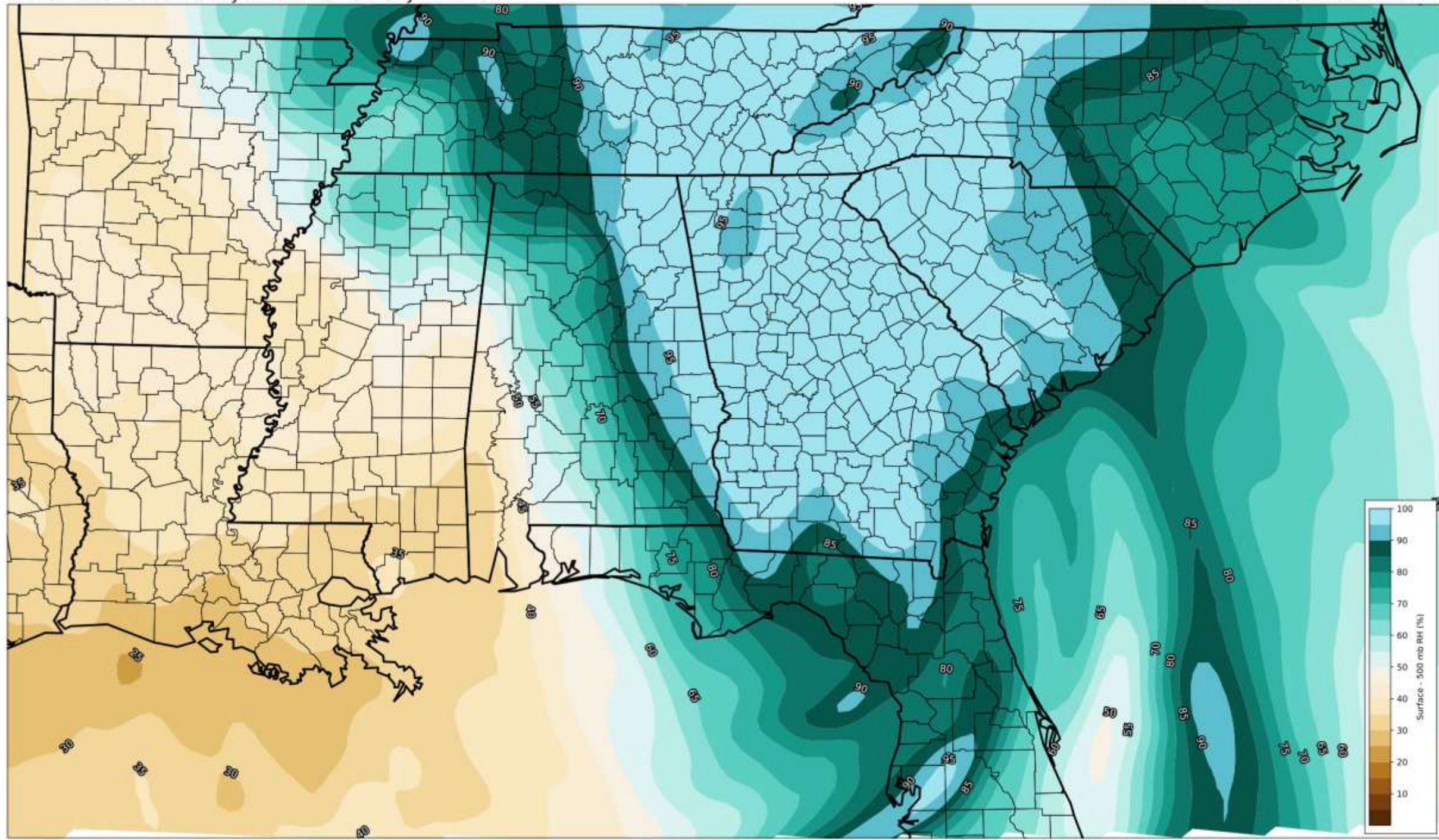












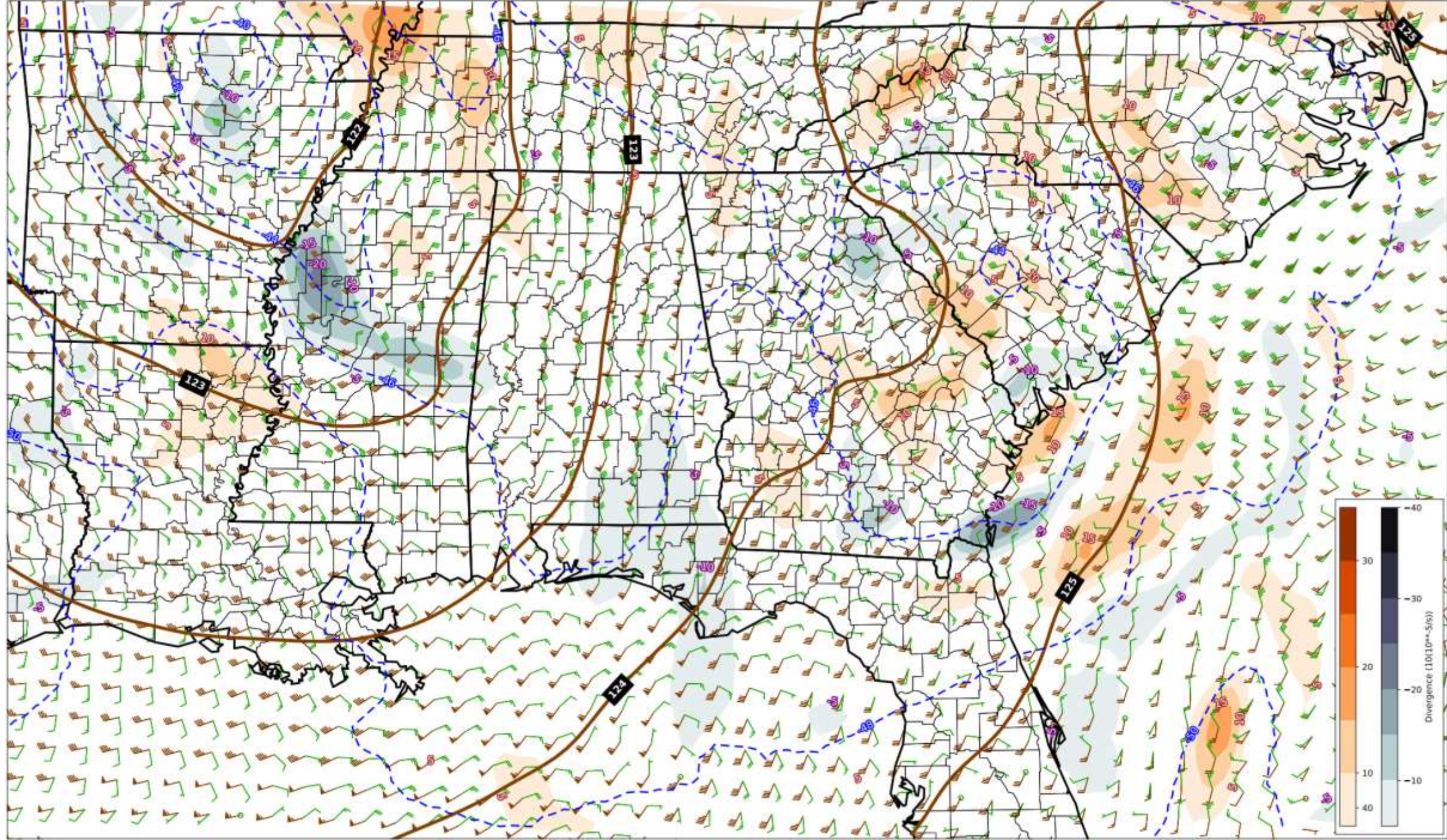
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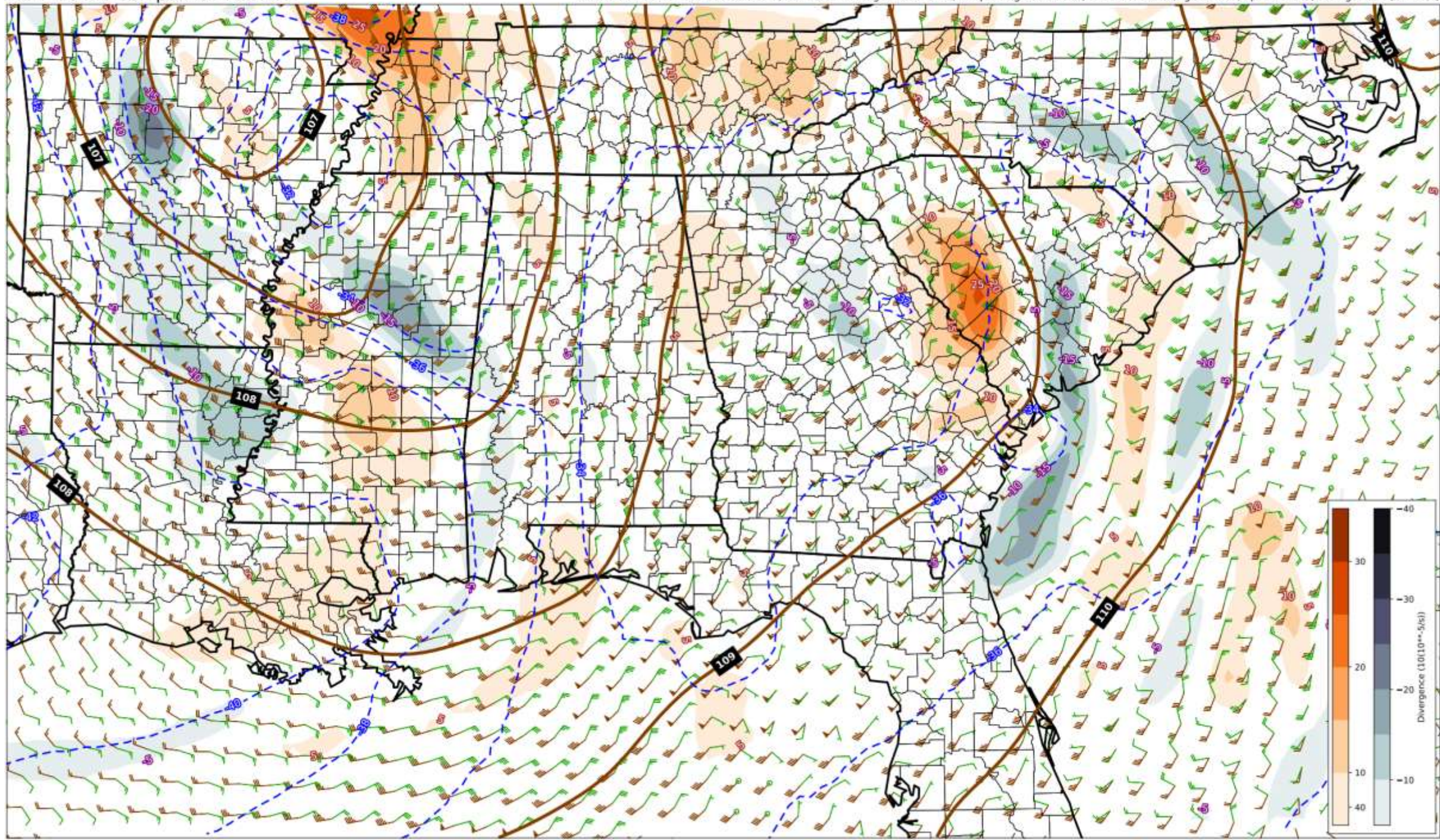
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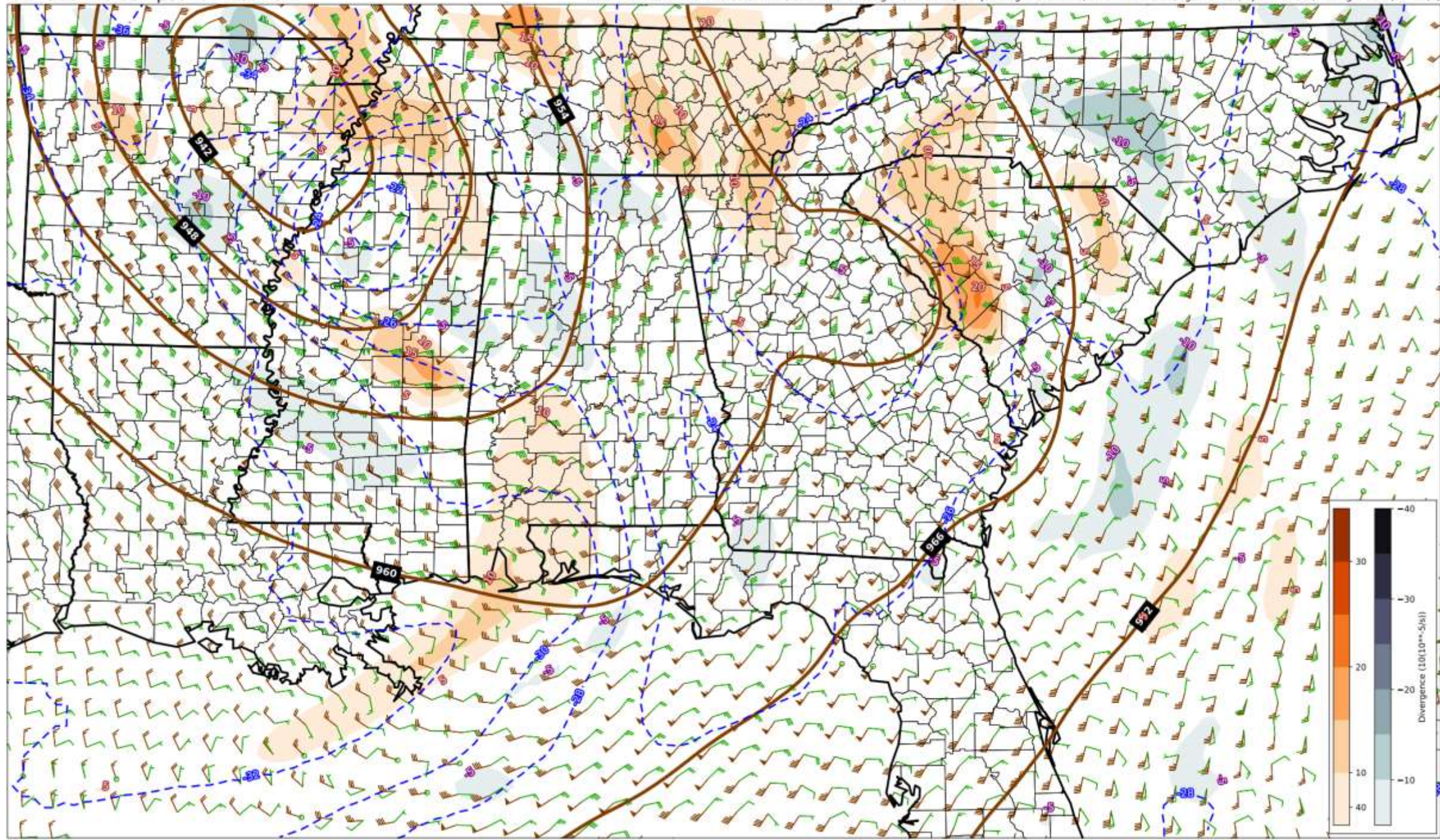
Increasing Impacts

RAP 200 mb Composite - Hour 01

Chart Valid: 09-27-2024 10:00:00 UTC / Unit Interval: Height 120 meters, Temp 2 Degrees Celsius, Wind Geo Brown/Ageo Green, Speed 10 kts, Divergence 5 (10**-5/s)

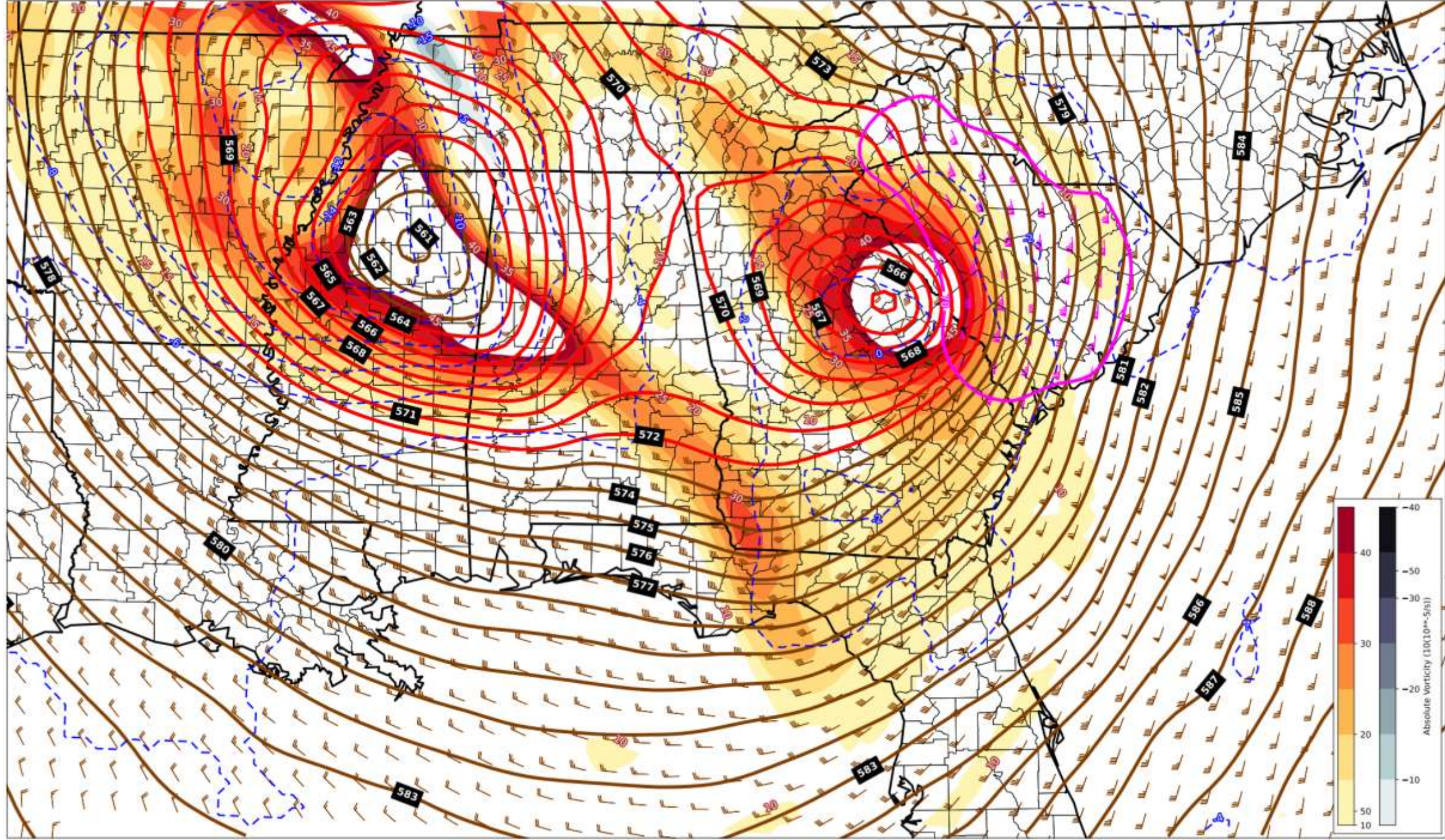


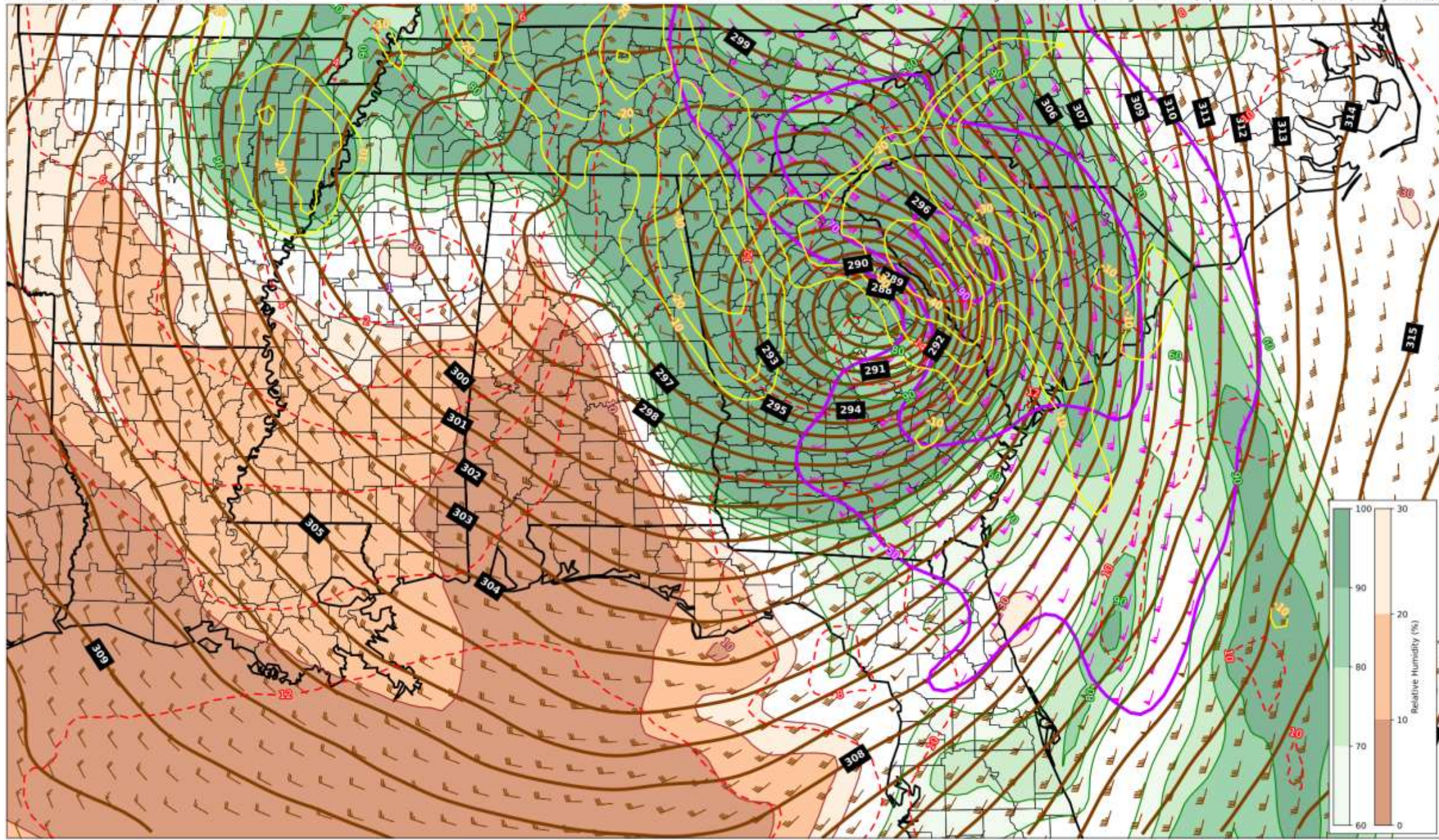


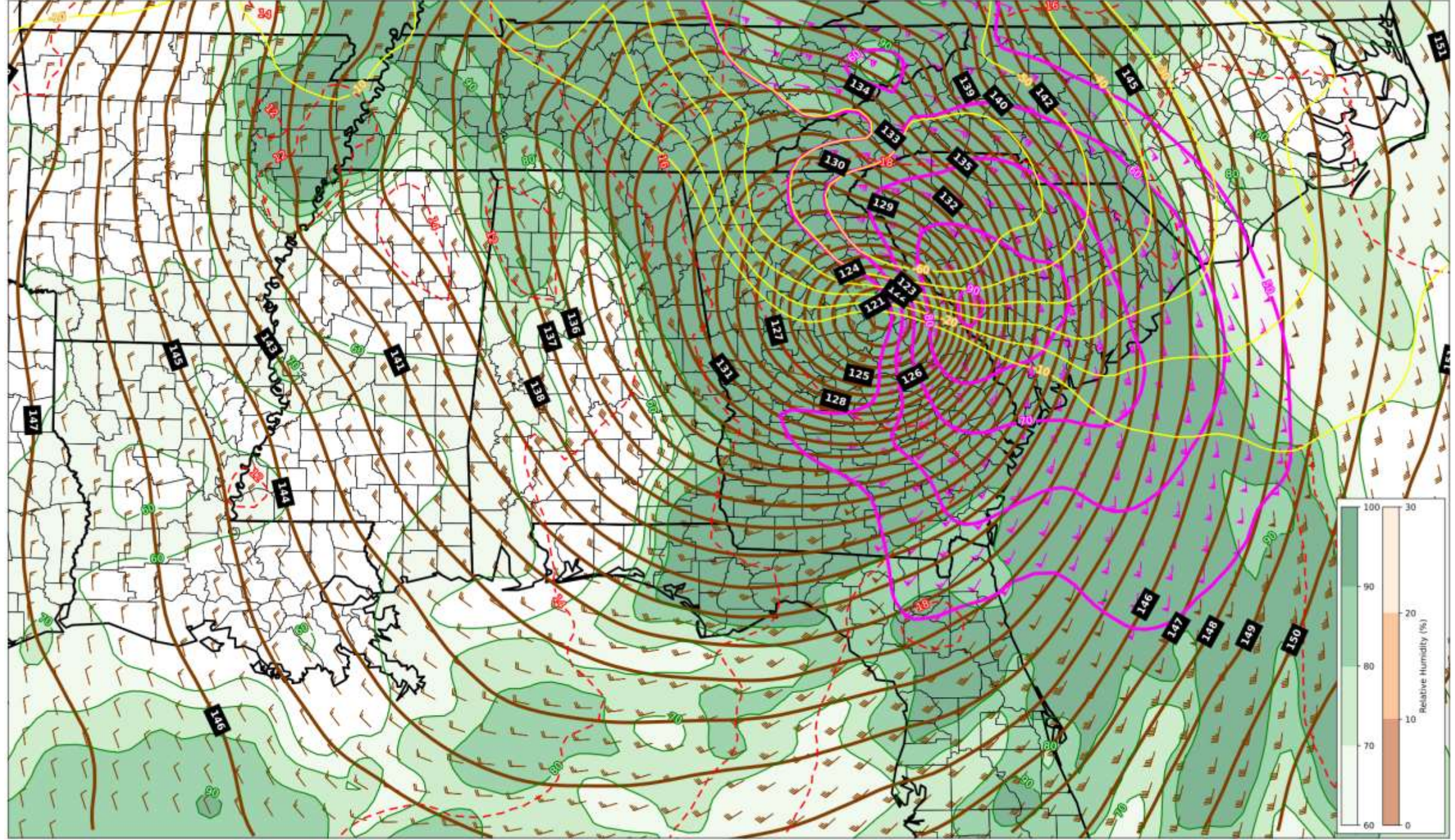


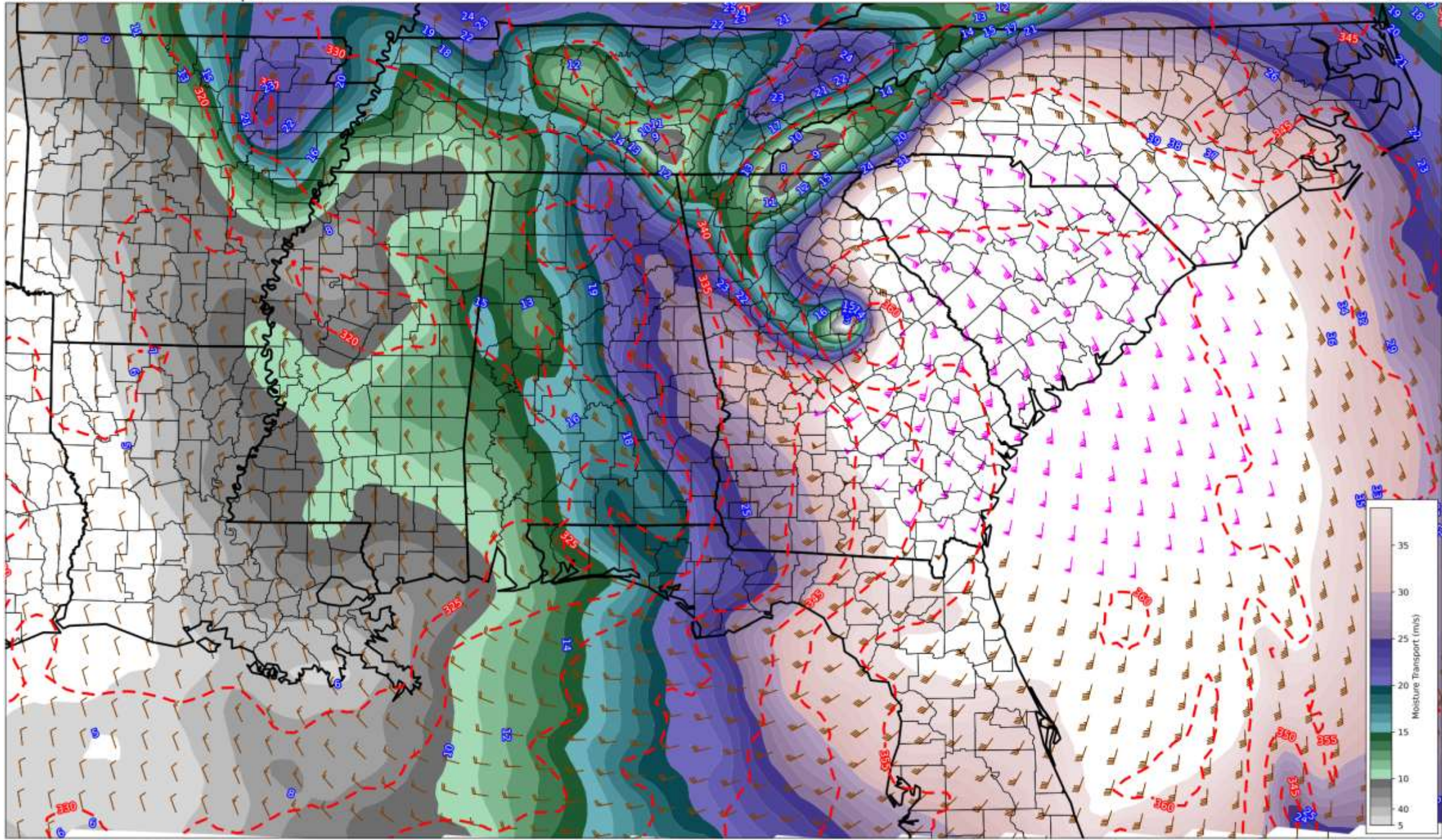
RAP 500 mb Composite - Hour 01

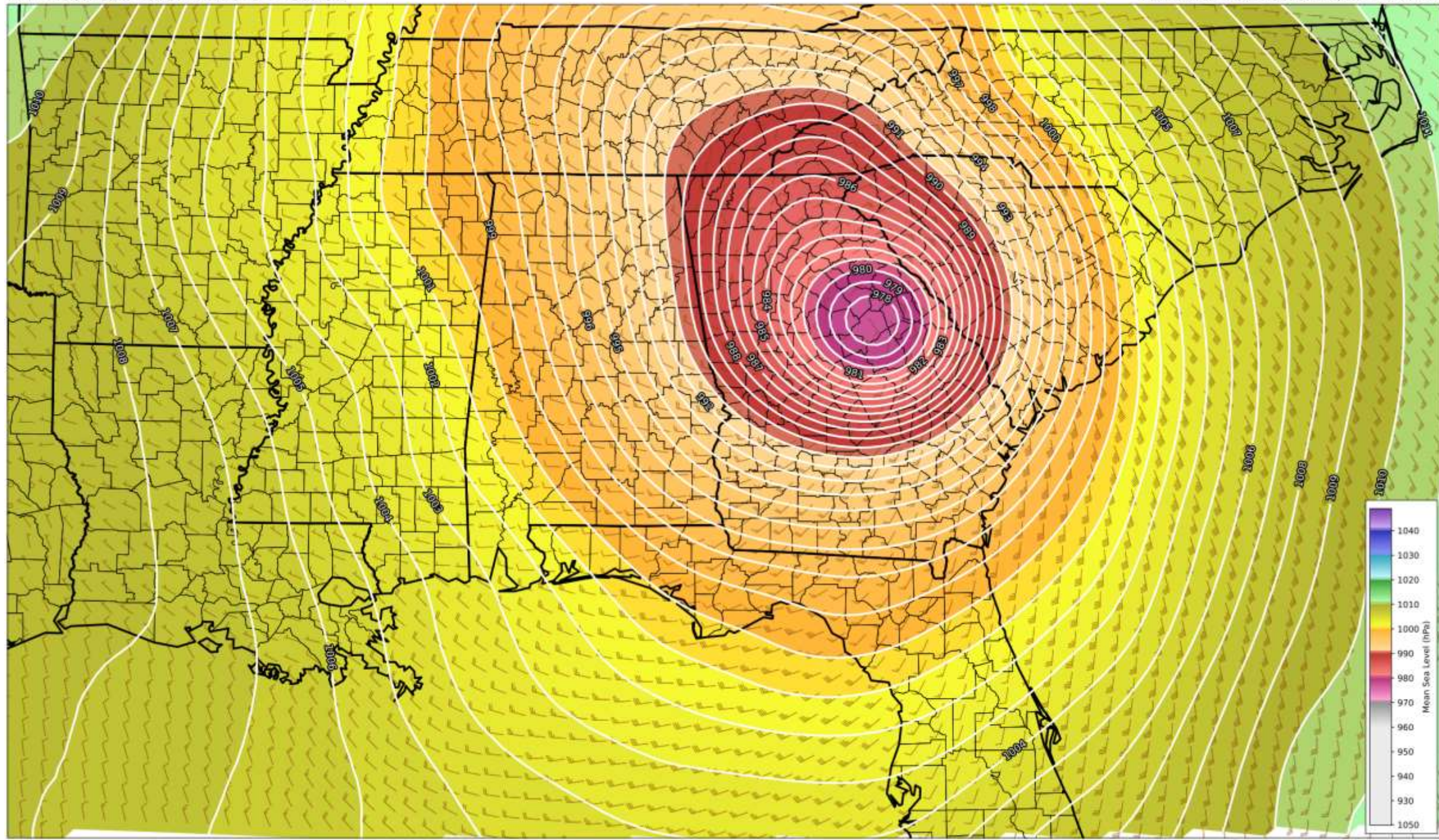
Chart Valid: 09-27-2024 10:00:00 UTC / Unit Interval: Height 10 meters, Temp 2 Degrees Celsius, Speed 10 kts, Absolute Vorticity 10 ($10^{+/-}5/s$), Red Contours: Tornado Potential, Blue Contours: Rain/Snow Line

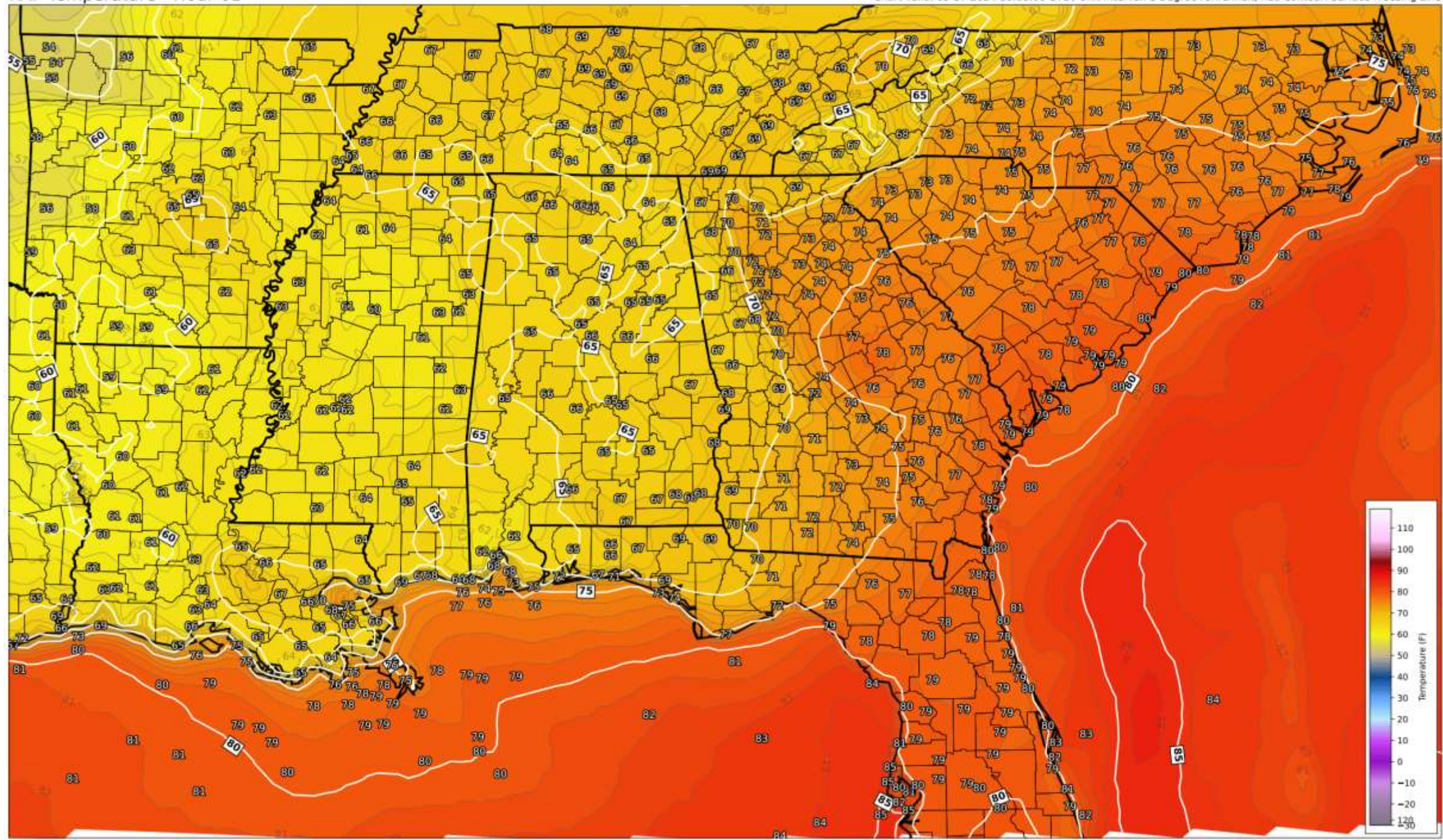


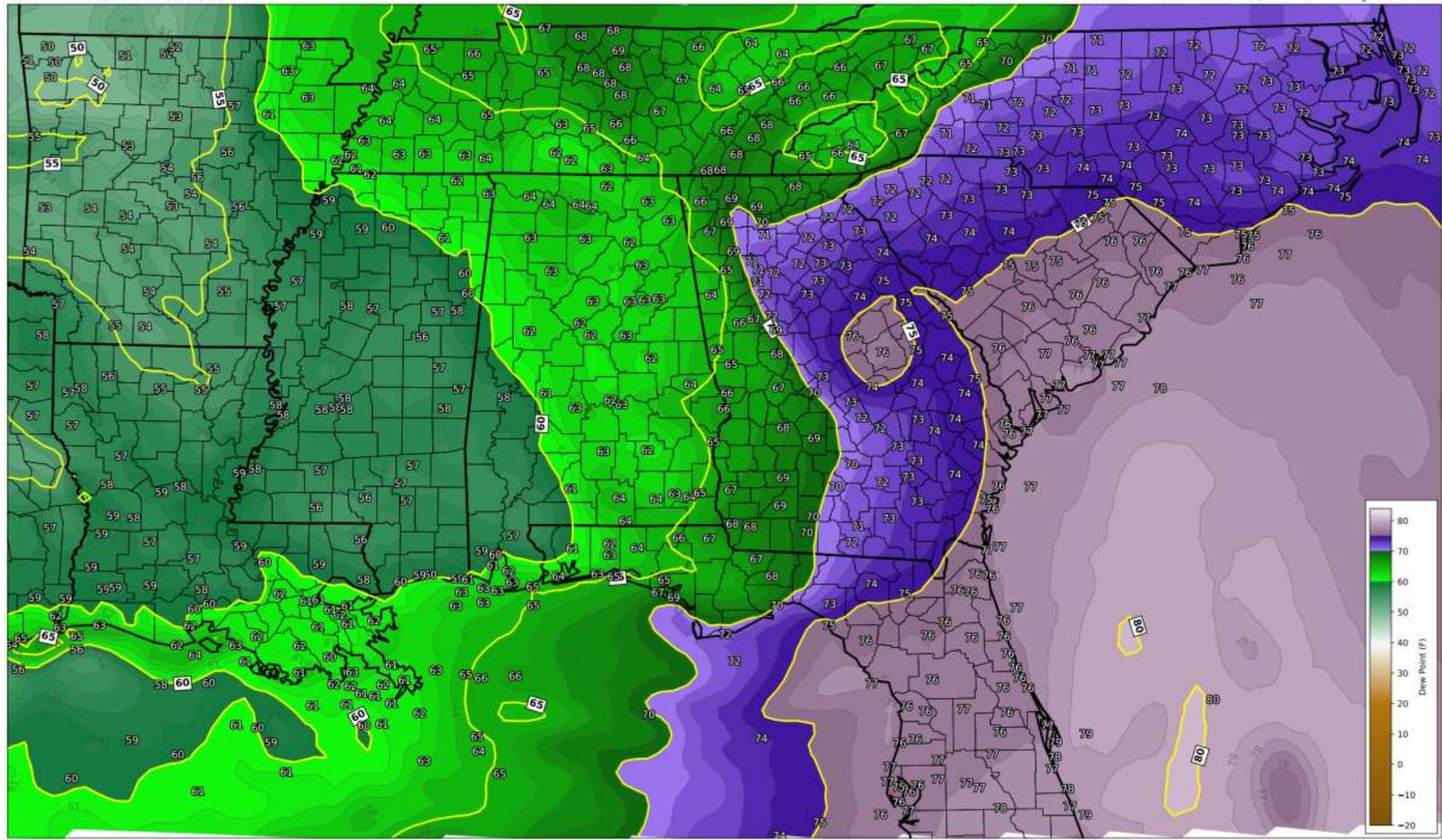


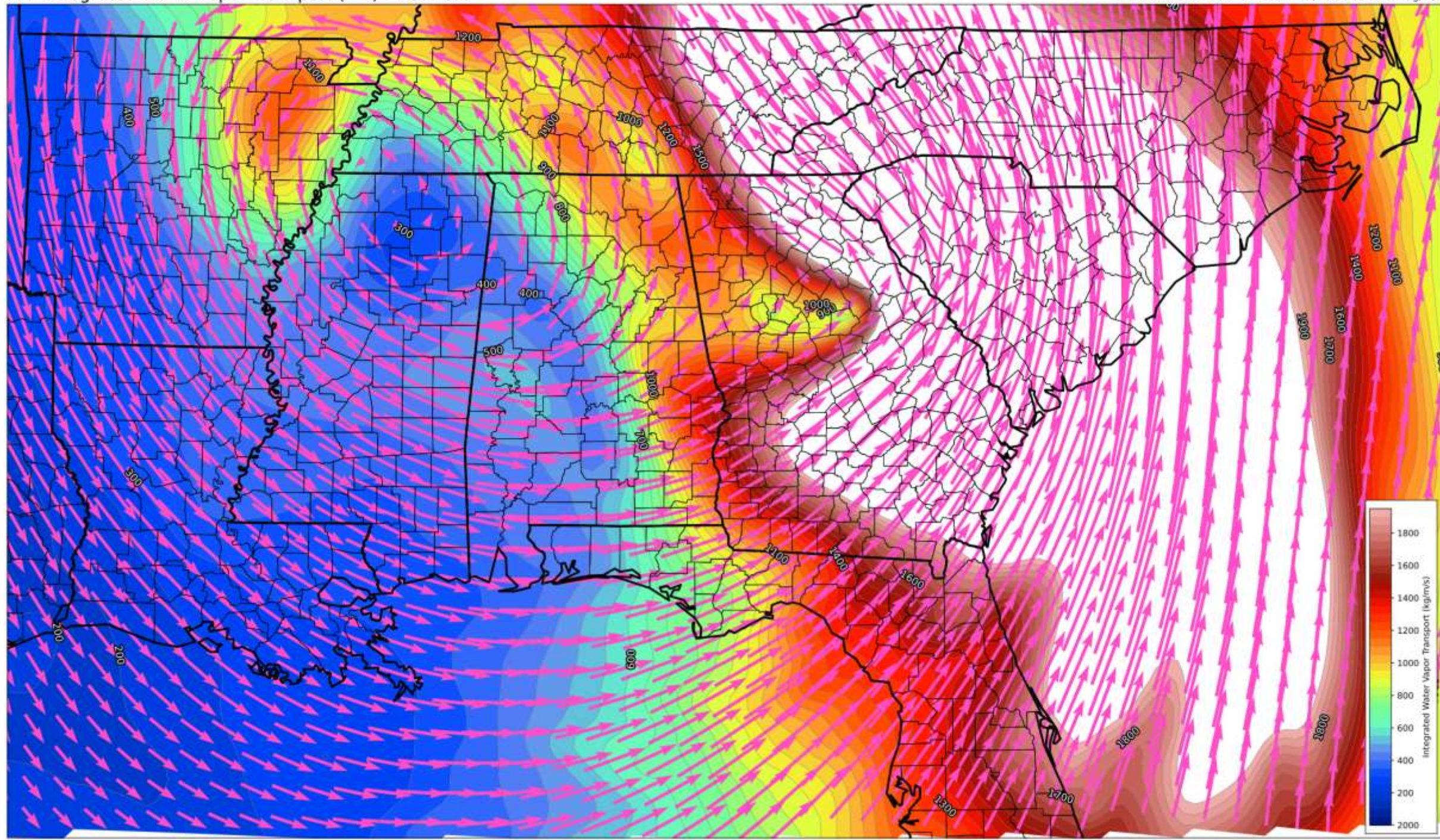


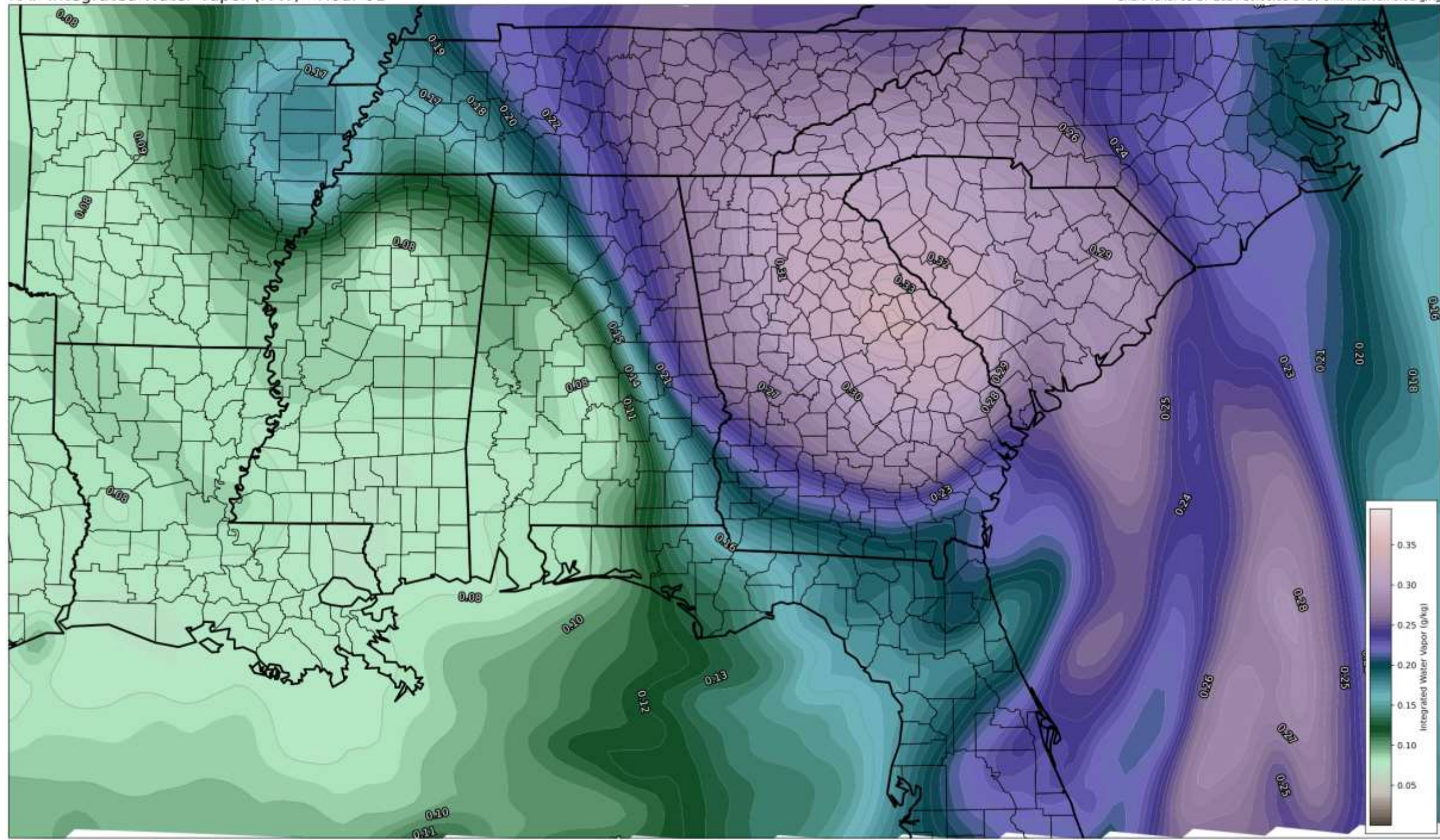


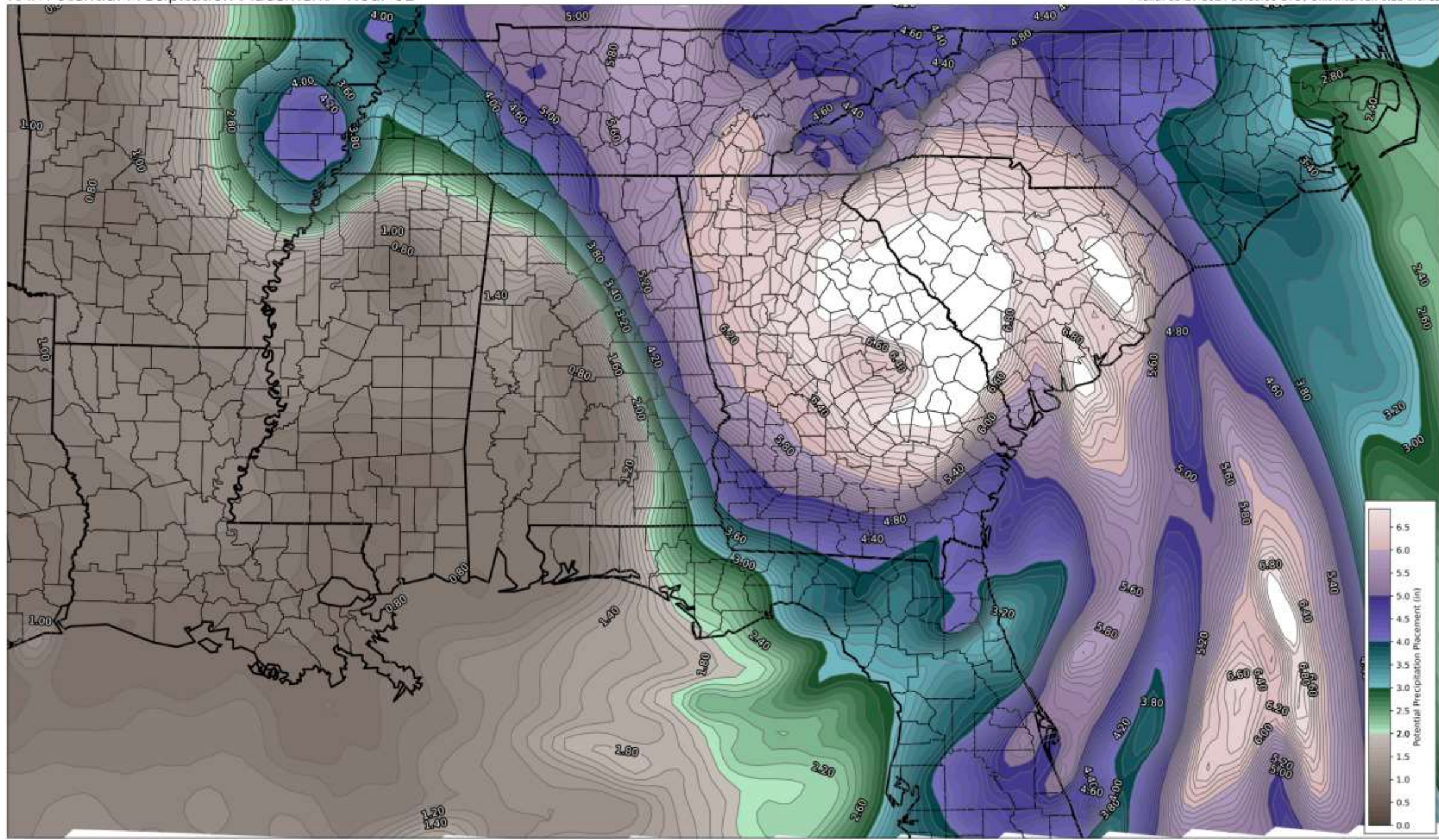


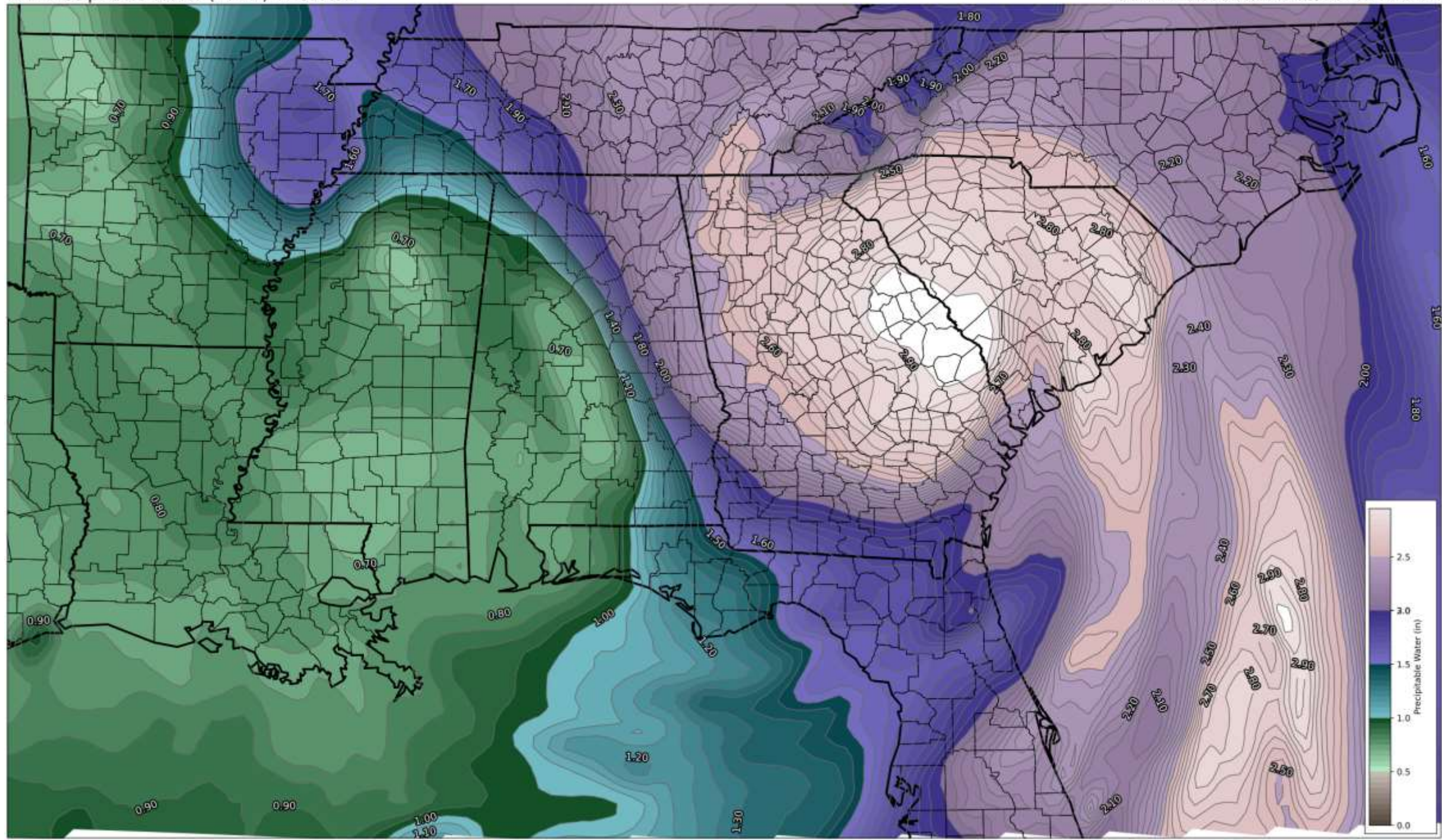


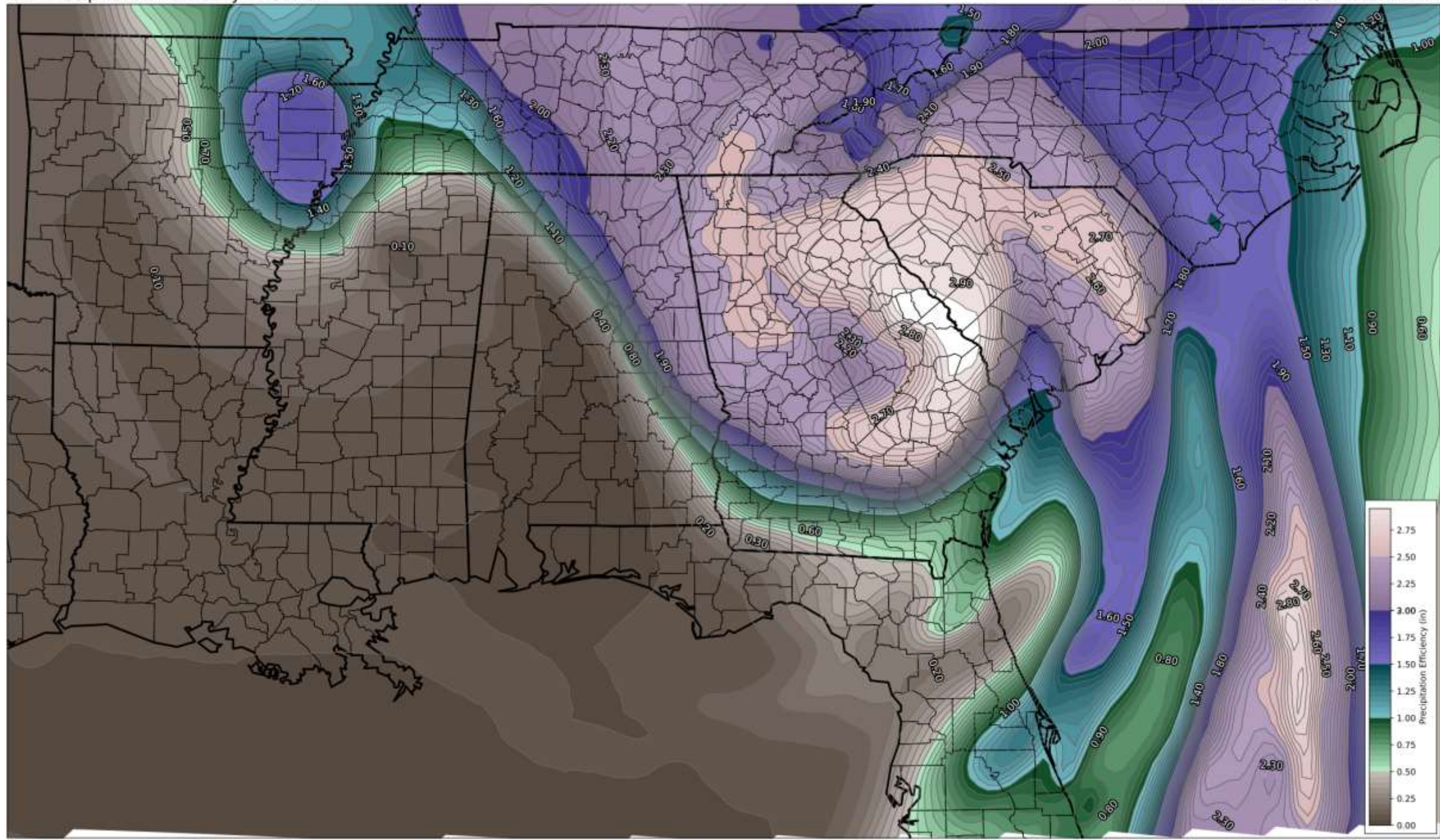


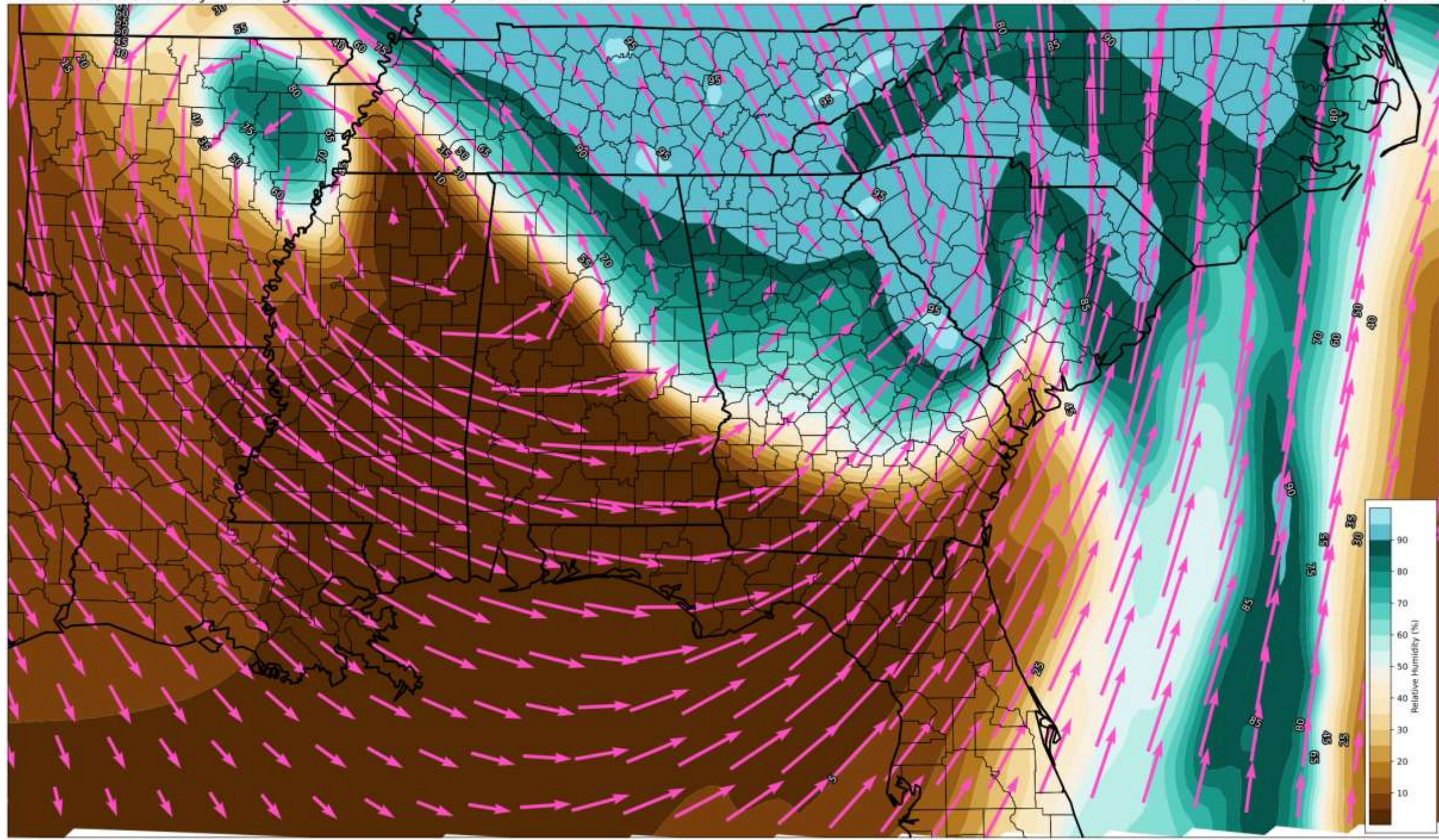


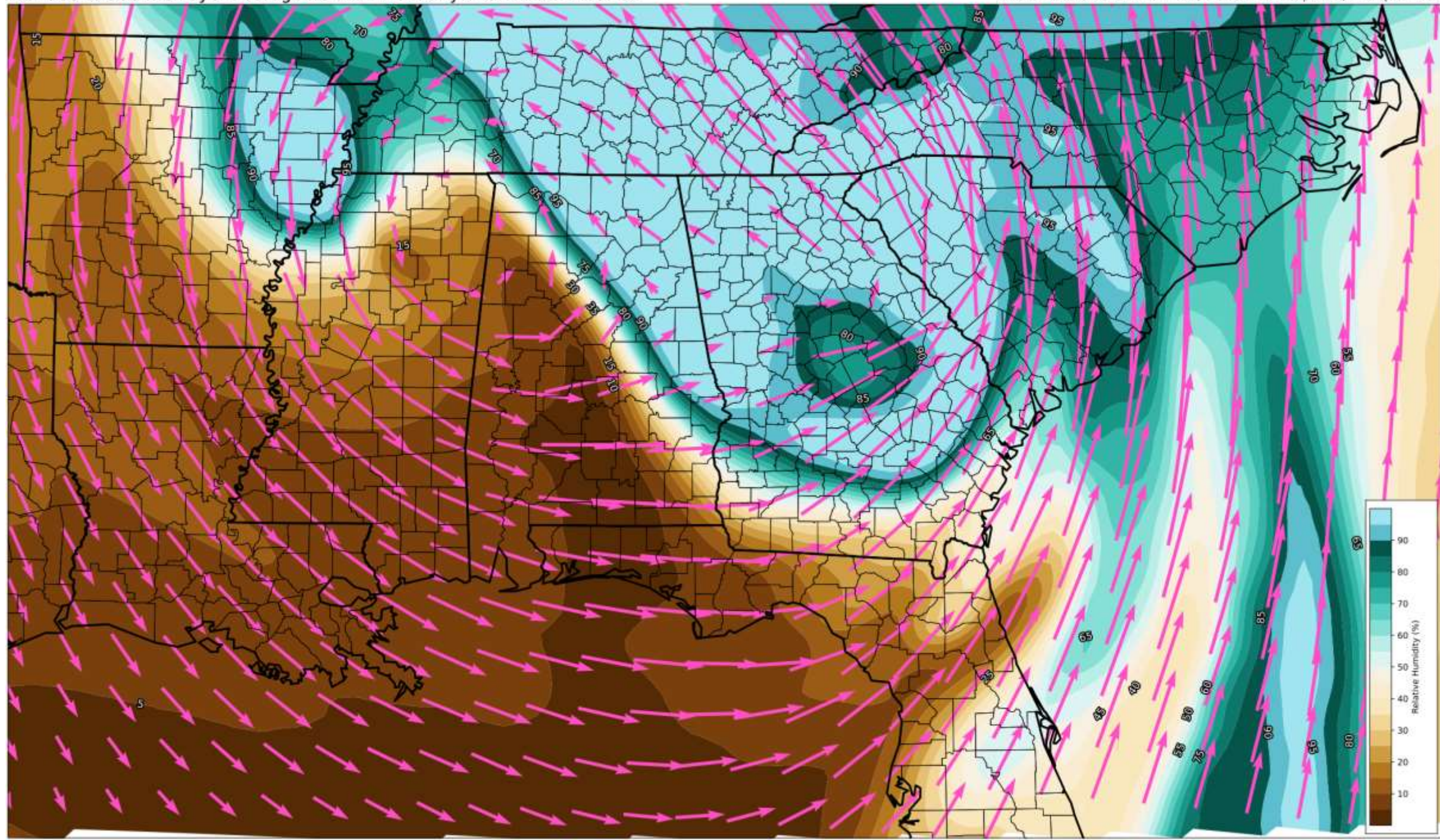


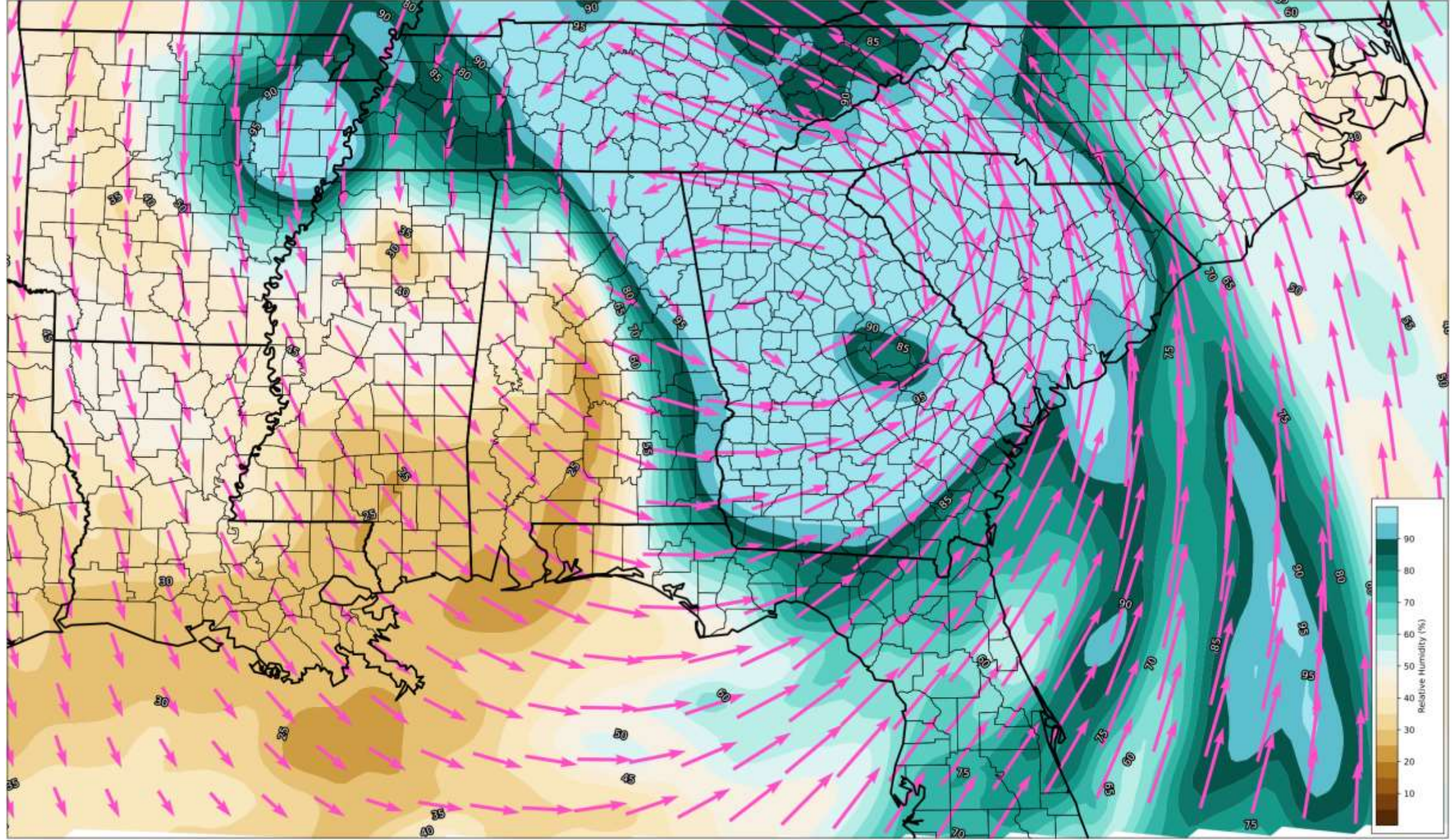


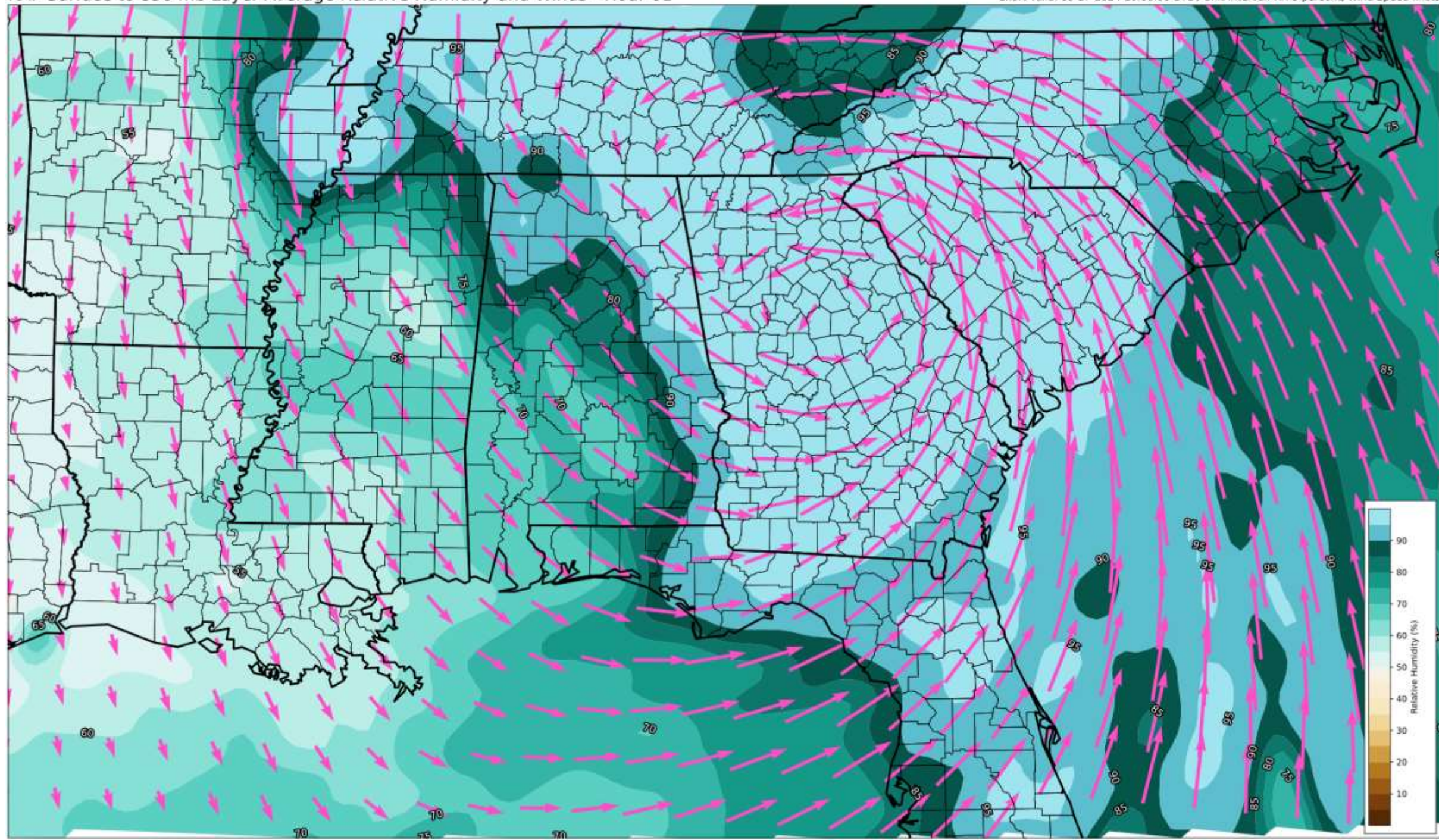


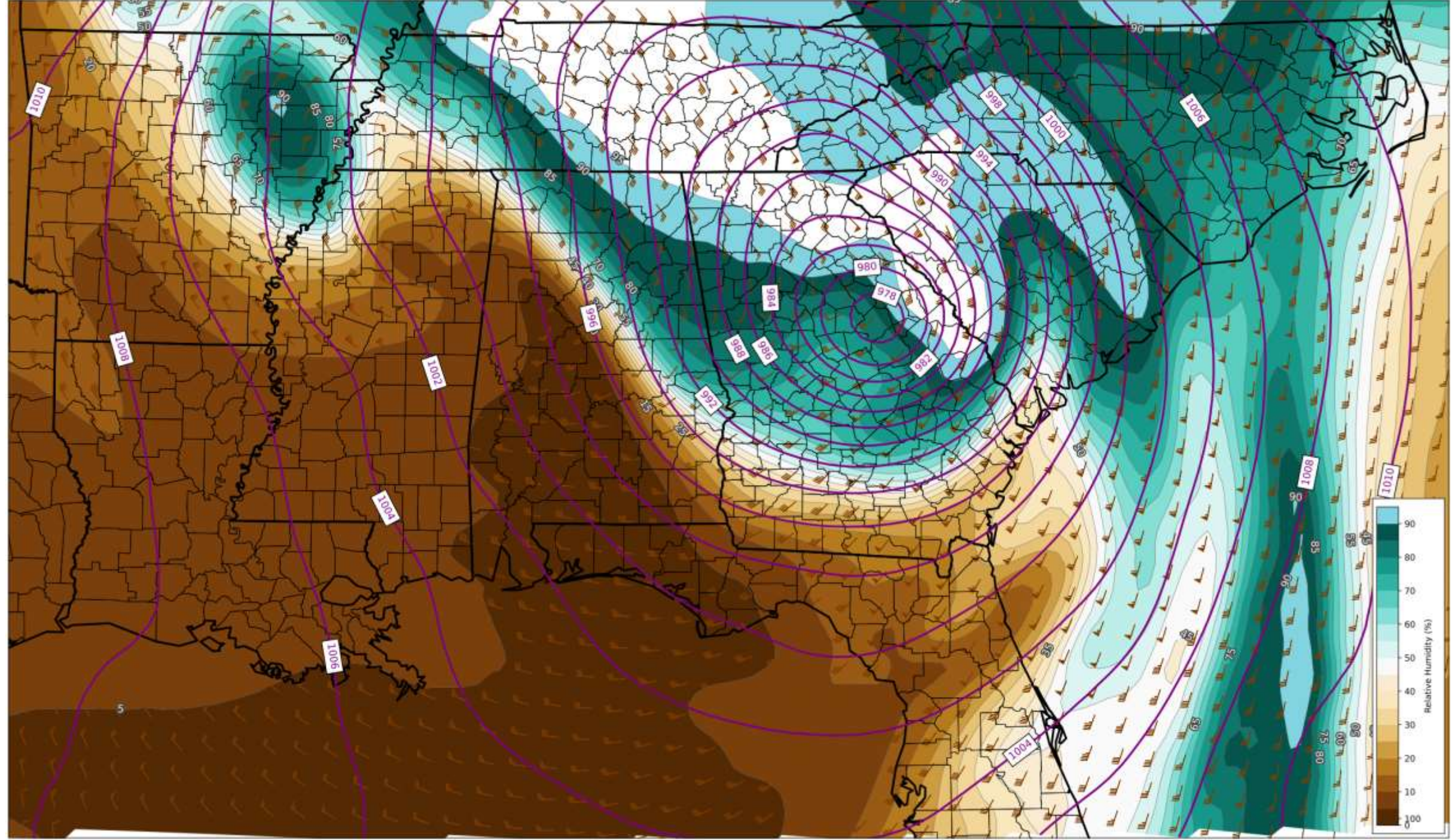


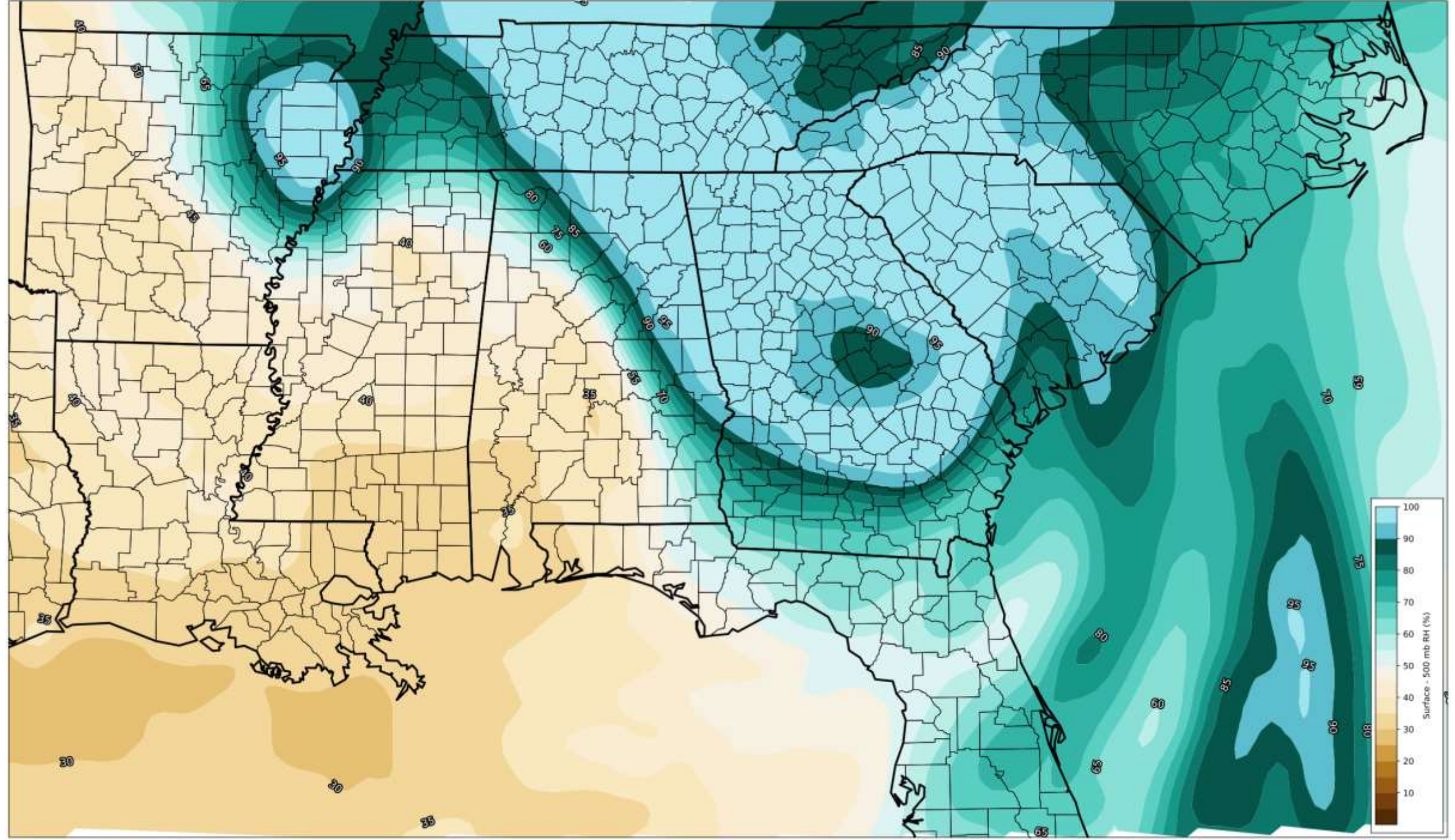












RAP 13 km Hourly One Hour Rainfall Modeling

