Heatwaves analysis: Project/Masters

Southeast: August 3rd to August 11th, 2011 (top 5 for 99th percentile 2m temp events)

Justification for grid points: variety of elevations and coastal proximity.

Lead time 1 (8/3/2011);

* UFS forecast temp 2m:

Temperature at Little Rock, AR: 37.31 °C

Temperature at New Orleans, LA: 33.51 °C

Temperature at Asheville, NC: 33.01 °C

* UFS reanalysis 2m:

Temperature at Little Rock, AR: 32.95 °C

Temperature at New Orleans, LA: 34.05 °C

Temperature at Asheville, NC: 31.75 °C

* NGCM forecast temp 1000mb:
* NGCM Temperature at Little Rock, AR: 38.22 °C
* NGCM Temperature at New Orleans, LA: 29.52 °C
* NGCM Temperature at Asheville, NC: 33.11 °C
* ERA5 reanalysis 1000mb:
* ERA5 Temperature at Little Rock, AR: 38.81 °C
* ERA5 Temperature at New Orleans, LA: 28.94 °C
* ERA5 Temperature at Asheville, NC: 32.58 °C
* **Regridded** NGCM forecast temp 1000mb:
* NGCM Temperature at Little Rock, AR: 37.35 °C
* NGCM Temperature at New Orleans, LA: 29.45 °C
* NGCM Temperature at Asheville, NC: 33.66 °C

Lead time 5 (8/7/2011):

* UFS forecast temp:

Temperature at Little Rock, AR: 37.14 °C

Temperature at New Orleans, LA: 32.84 °C

Temperature at Asheville, NC: 33.04 °C

* UFS reanalysis:

Temperature at Little Rock, AR: 39.09 °C

Temperature at New Orleans, LA: 33.29 °C

Temperature at Asheville, NC: 30.89 °C

* NGCM forecast temp 1000mb:
* NGCM Temperature at Little Rock, AR: 36.57 °C
* NGCM Temperature at New Orleans, LA: 29.83 °C
* NGCM Temperature at Asheville, NC: 29.70 °C
* ERA5 reanalysis 1000mb:
* ERA5 Temperature at Little Rock, AR: 29.89 °C
* ERA5 Temperature at New Orleans, LA: 29.03 °C
* ERA5 Temperature at Asheville, NC: 27.69 °C
* **Regridded** NGCM forecast temp 1000mb:
* NGCM Temperature at Little Rock, AR: 35.62 °C
* NGCM Temperature at New Orleans, LA: 29.72 °C
* NGCM Temperature at Asheville, NC: 30.35 °C

Lead time 10 (8/12/2011)

* UFS forecast temp:

Temperature at Little Rock, AR: 33.97 °C

Temperature at New Orleans, LA: 34.47 °C

Temperature at Asheville, NC: 33.07 °C

* UFS reanalysis:

Temperature at Little Rock, AR: 34.08 °C

Temperature at New Orleans, LA: 34.18 °C

Temperature at Asheville, NC: 25.08 °C

* NGCM forecast temp 1000mb:
* NGCM Temperature at Little Rock, AR: 33.17 °C
* NGCM Temperature at New Orleans, LA: 30.21 °C
* NGCM Temperature at Asheville, NC: 29.02 °C
* ERA5 reanalysis 1000mb:
* ERA5 Temperature at Little Rock, AR: 25.62 °C
* ERA5 Temperature at New Orleans, LA: 31.05 °C
* ERA5 Temperature at Asheville, NC: 28.90 °C
* **Regridded** NGCM forecast temp 1000mb:
* NGCM Temperature at Little Rock, AR: 31.47 °C
* NGCM Temperature at New Orleans, LA: 30.06 °C
* NGCM Temperature at Asheville, NC: 29.82 °C