CAM Hazards Threat Area Forecast Help Document By DVD

- 1. Why create a Hazards Threat Area Forecast map? The goal behind the creation of the map is to give forecasters a quick look at different kinds of hazards that may occur via a single map. If a hazard appears, then it does **not** automatically mean that a watch or warning **is** necessary, but it **does** mean that further investigation by the forecaster is needed, and a watch or warning **may** be necessary at some point. In addition, just because no hazards may appear does **not** mean there isn't a threat. CAMs are just another tool, and each individual CAM is only a single model. It is best to consider many models, including ensemble guidance. Don't let this, SuperBlend, NBM, Forecast Builder, etc. become your <u>meteorological cancer</u>!
- 2. How are the different threat areas defined?
 - a. Fog

i. Visibility < 0.25 miles

b. 3inqpf

i. Model run total QPF > 3"

c. 5inqpf

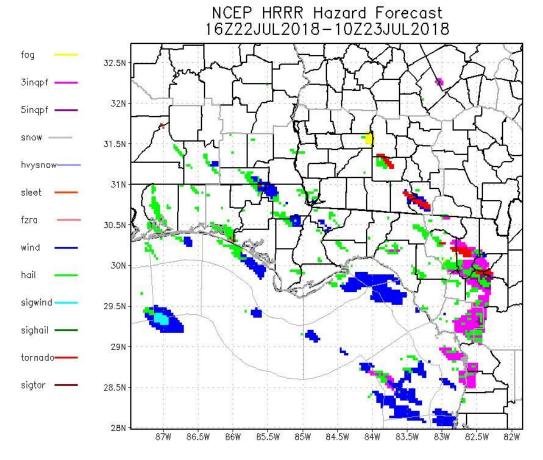
i. Model run total QPF > 5"

d. Snow

i. New snow depth on ground > 0.1"

- e. Hvysnow
 - i. New snow depth on ground > 2"
- f. Sleet
 - i. Categorical p-type of sleet WITH QPF > 0.01"
- g. Fzra
 - i. Categorical p-type of freezing rain WITH QPF > 0.01"
- h. Wind (could be convective OR non-convective)
 - i. Max sustained wind > 34.9 knots OR
 - ii. Gust > 49.9 knots
- i. Hail
 - i. Max updraft velocity > 18 m/s WITH 0-6 km shear > 35 knots
- j. Sigwind (could be convective OR non-convective)
 - i. Max sustained wind > 54.9 knots OR
 - ii. Gust > 64.9 knots
- k. Sighail
 - i. Max updraft velocity > 25 m/s WITH 0-6 km shear > 40 knots
- I. Tornado
 - i. Max Updraft Helicity > 80 m2/s2
- m. Sigtor
 - i. Max Updraft Helicity > 150 m2/s2
- 3. How does the map display the hazards when two or more hazards overlap with each other? The map uses the following layer order to decide what to display.

- a. Fog (bottom layer, covered up by anything else)
- b. 3inqpf (covers up fog, covered up by anything else)
- c. 5inqpf (covers up 3inqpf and fog, covered up by anything else)
- d. Snow
- e. Hvysnow
- f. Sleet
- g. Fzra
- h. Wind
- i. Hail
- j. Sigwind
- k. Sighail
- I. Tornado (covers up everything except sigtor)
- m. Sigtor (always displayed on top)



GrADS: COLA/IGES

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