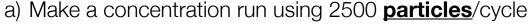
ATSC 595D - Hysplit run assignment - 2024

- 1. Following Reagan McKinney's hysplit tutorial part 1 (**trajectories**), run hysplit according to her instructions, and submit a large-size screen capture of **your** output image, similar to the figure on her slide 19 (see thumbnail copy at right).
- 2. From McKinney's hysplit tutorial part 2 (**concentrations**), make hysplit runs **similar** to her demo for the captex2_wrf27uw.bin meteorological input, but with the following **changes**:



- b) 24 hour Total run time (hrs)
- c) 600 m-agl Start Location Height (m-AGL)
- d) 5000 m Height of levels (M Agl)
- e) And make the run using the Setup File
- f) Display the results (using the default). Note: your ouput will consist of two images. Please submit a large-size screen capture of the 2nd image, as shown by the thumbnail at right [the one that was "Integrated from 0500 26 Sep to 1700 26 Sep 83 (UTC)"].
- 3. Repeat the concentration run with the settings as above, but for
 - a) Puffs (Gaussian horizontal Particle vertical)
 - b) 5 puffs released/cycle
 - c) Run from your Setup file, and pay close attention to the speed as it is running.
 - d) Display the results (using default), and make a large screen capture of the 2nd image to submit.
- 4. For the run from item (3), Discuss:
 - a) How did the run speed vary, if at all? Why?
 - b) How many puffs existed at the end of the run?
 - c) At what height was most of the pollutant mass at the end of the run?

