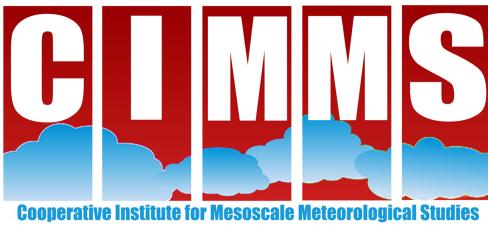
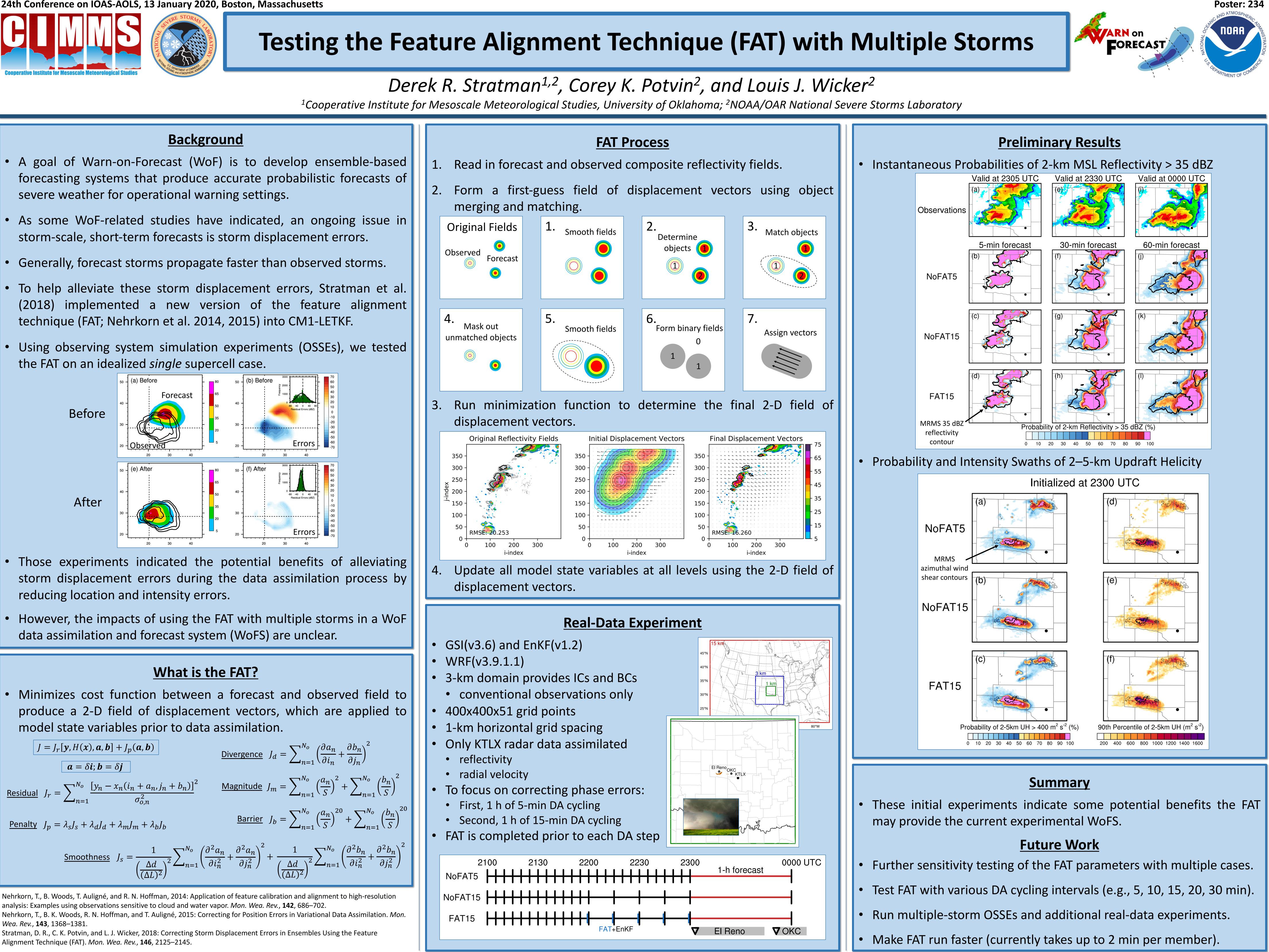
24th Conference on IOAS-AOLS, 13 January 2020, Boston, Massachusetts





- severe weather for operational warning settings.

- the FAT on an idealized *single* supercell case.



- reducing location and intensity errors.
- data assimilation and forecast system (WoFS) are unclear.

model state variables prior to data assimilation.

$$J = J_r[\mathbf{y}, H(\mathbf{x}), \mathbf{a}, \mathbf{b}] + J_p(\mathbf{a}, \mathbf{b})$$

$$\mathbf{a} = \delta \mathbf{i}; \mathbf{b} = \delta \mathbf{j}$$

$$\mathbf{b} = \sum_{n=1}^{N_o} \delta \mathbf{j}$$

analysis: Examples using observations sensitive to cloud and water vapor. Mon. Wea. Rev., 142, 686–702. Wea. Rev., 143, 1368–1381.

Alignment Technique (FAT). Mon. Wea. Rev., 146, 2125–2145.

derek.stratman@noaa.gov