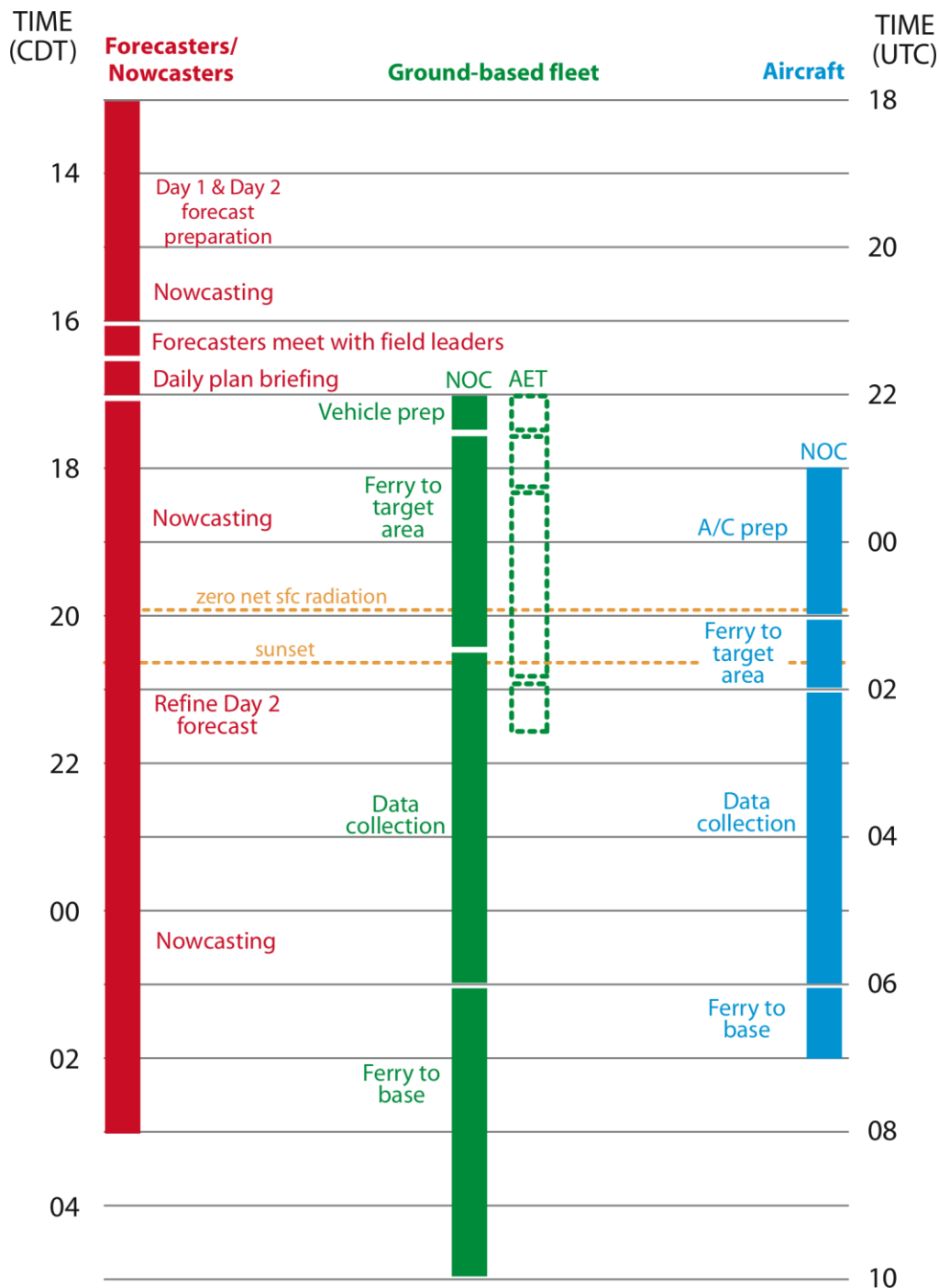


# Forecast and Nowcast Support

# Current Plans

- Three Lead Forecasters – goal of having two present most of the time (David Imy, Jack Hales, Bill Gallus)
- If possible, would like to add 4<sup>th</sup> Lead to cover small gap (late June) that would only have 1 Lead present.
- Team of two graduate student assistants at all times

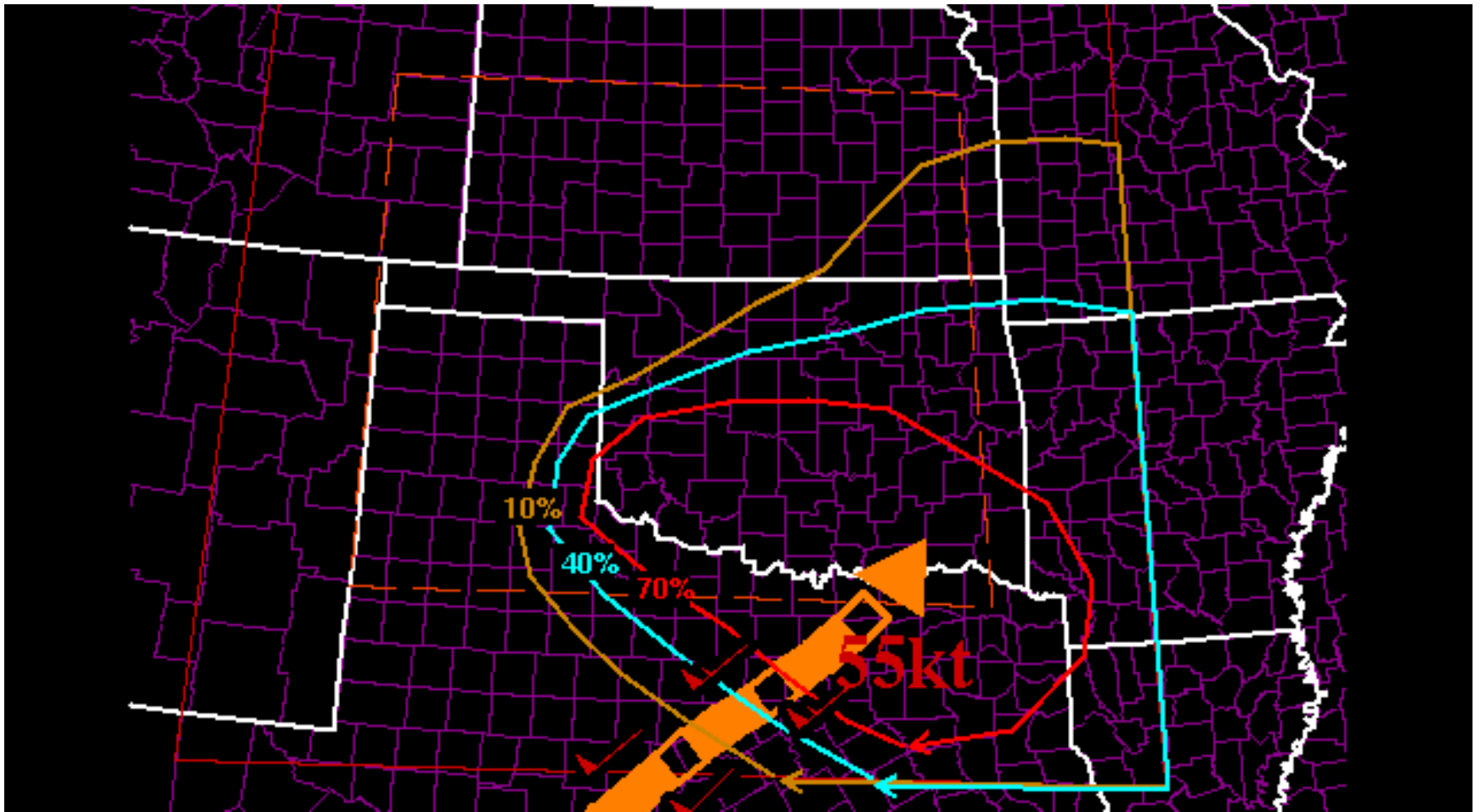


## Timeline proposed in EDO

- Possibly will have to have expert forecasters take shifts – one early and one late
- Also may be able to turn late-night activities over to grad student team if conditions warrant

# MCS forecasting

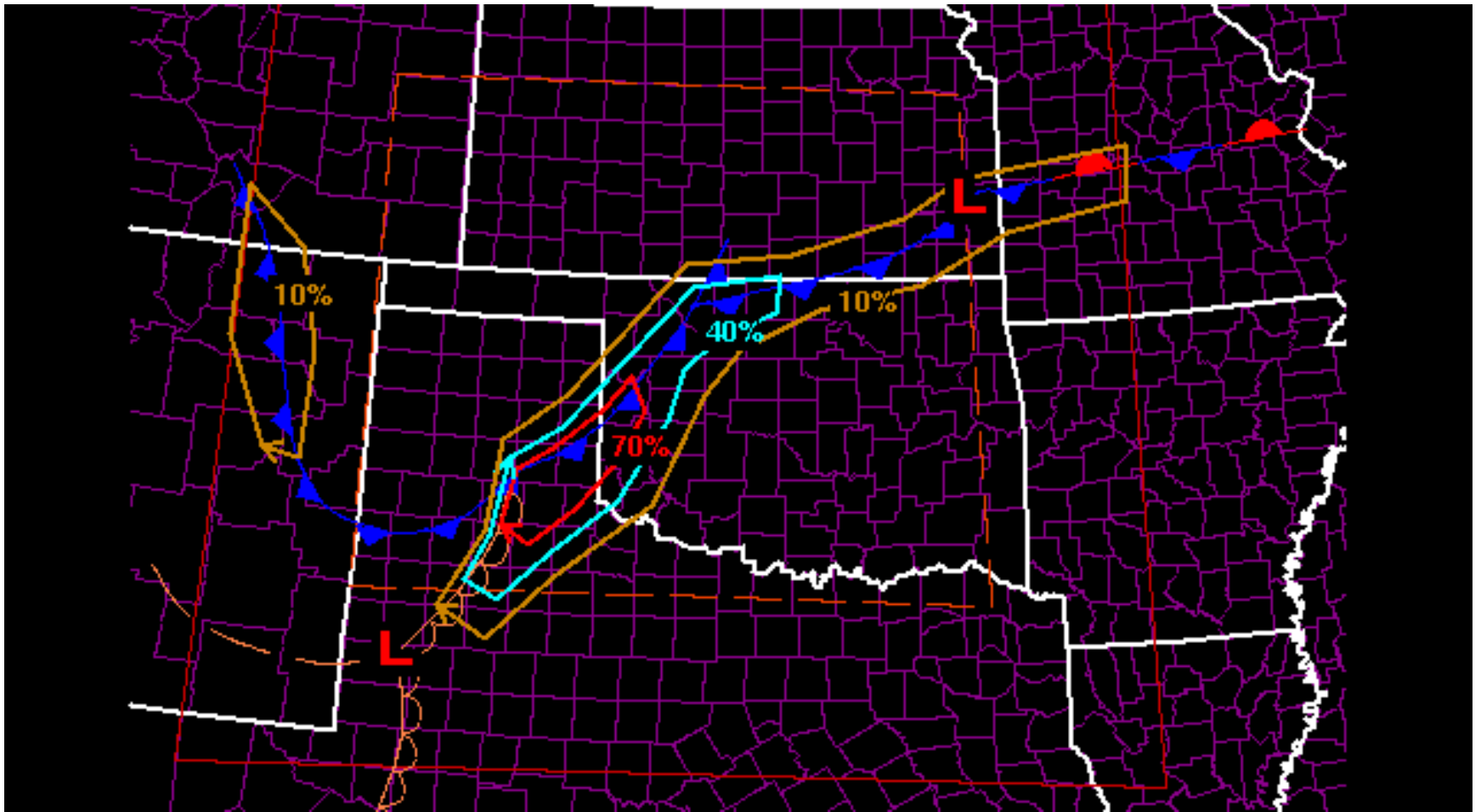
- Some prior experience with other field programs
- Forecasts will likely follow IHOP example and include overlay of expected LLJ position and most likely region (probs) for MCS development and propagation and decay
- Standard observational network and numerous convection-allowing models may be sufficient to allow some skill



**Example of LLJ/MCS forecast from IHOP**

# Convective Initiation

- Primary CI (nocturnal) will also require a forecast – possibly using probabilities?
- Likely will be a very challenging forecast, potentially assisted by any real-time special observations made available to us



**Example of day 1 convective initiation  
forecast from IHOP**

# Bore forecasting

- Expect this may be more challenging as well
- Likely essential to have access to special observations from within field program
- Steve Koch may be able to help – goal would be to code up some NWP fields for bore strength, Froude number, Scorer parameter



# Additional Forecasts

- LLJ in fair weather conditions
- AET (afternoon-evening transition) – what exactly are the forecast needs here?

# We need input from the field participants!

- Are changes needed in the schedule proposed in the EDO?
- The more real-time field observations made available to the forecast team, the better the chances of useful bore forecasts