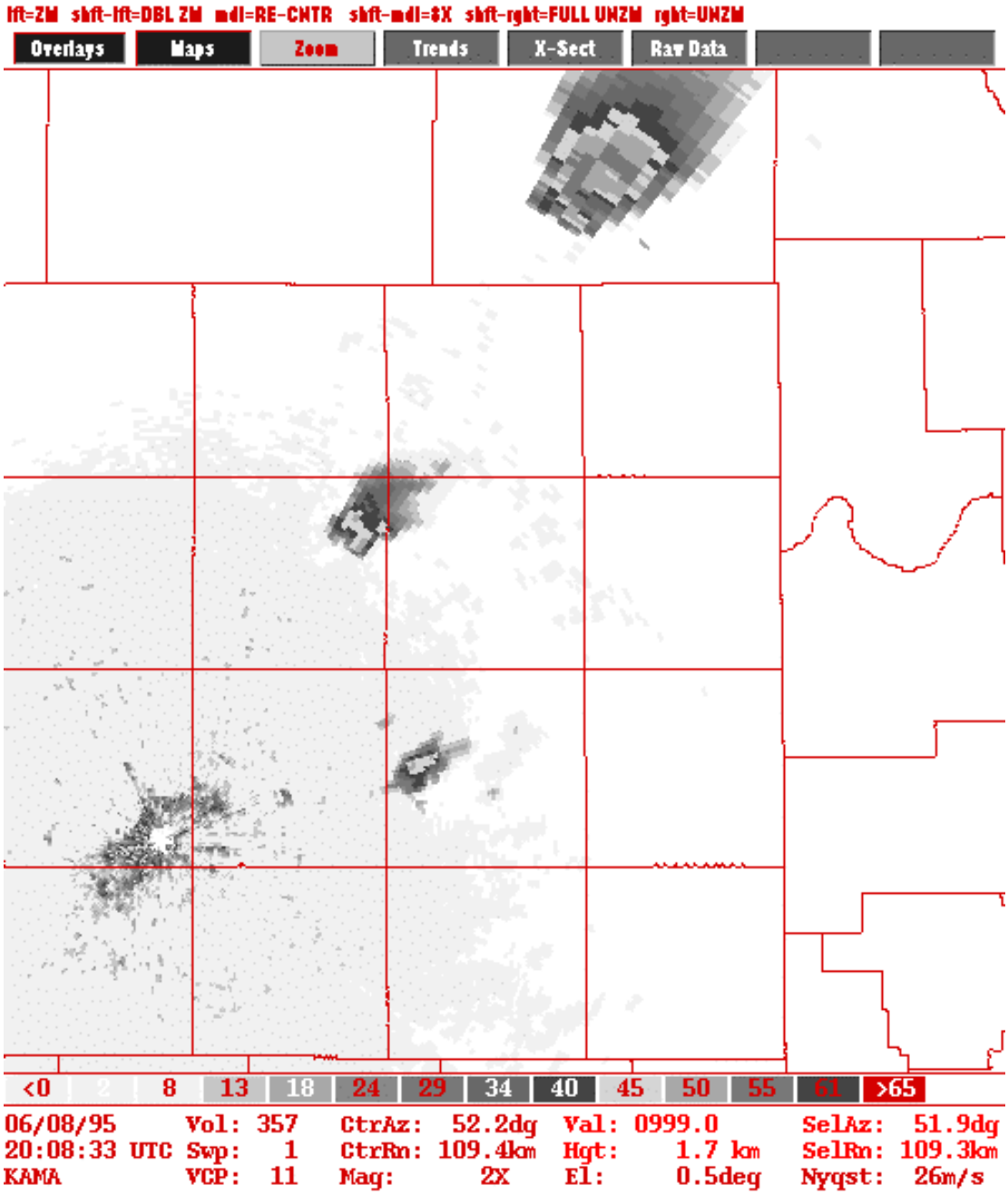

FIG. 6 Amarillo (KAMA), Texas, radar reflectivity (dBZ). 2008 UTC 8 June 1995. 0.5 degree elevation angle.

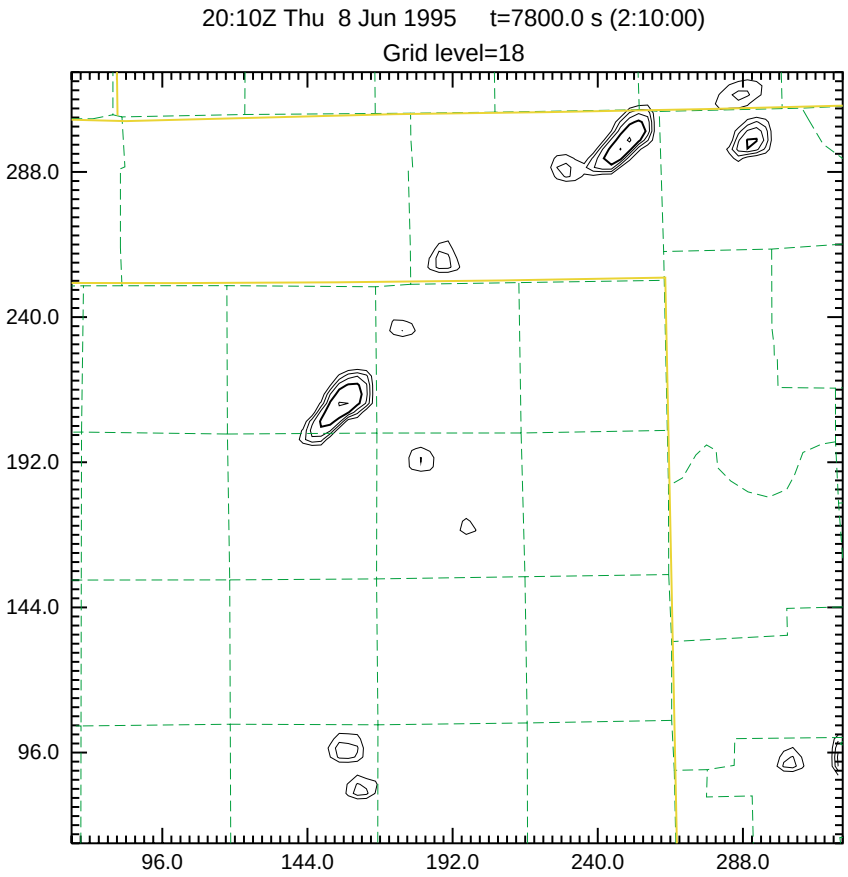

FIG. 7 Model reflectivity (dBZ) forecast for 2010 UTC 8 June 1995.

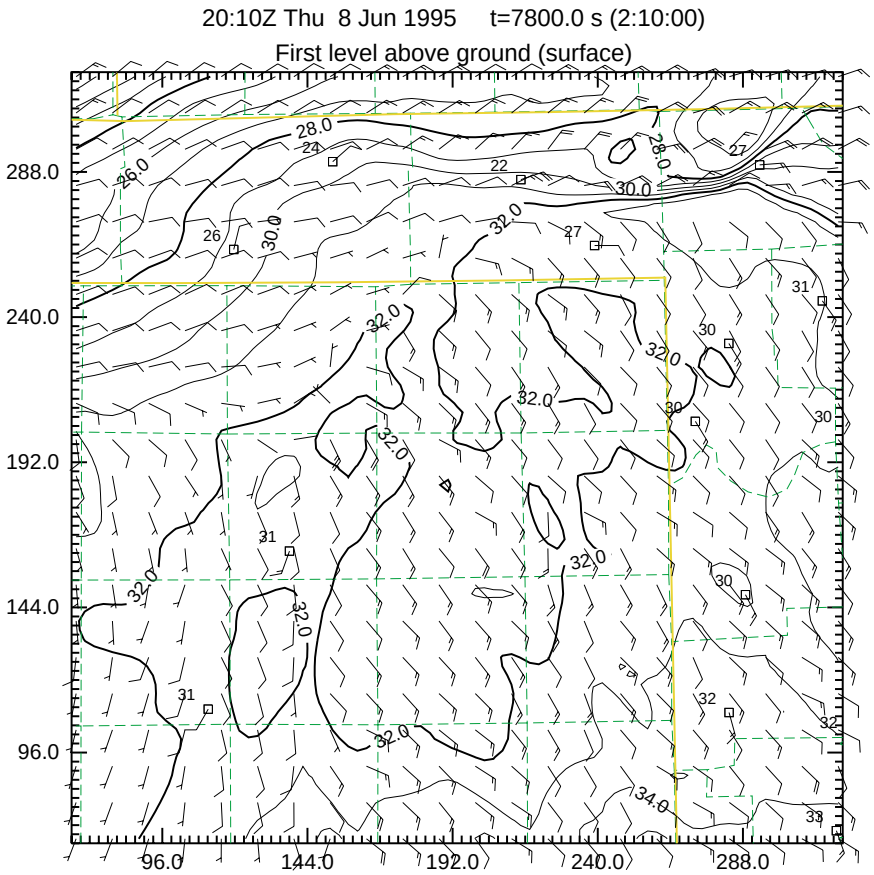

FIG. 8 Surface temperature (°C) and wind (barbs). Observations and model forecast at 2010 UTC 8 June 1995. Full barb is 5 ms^{-1}.

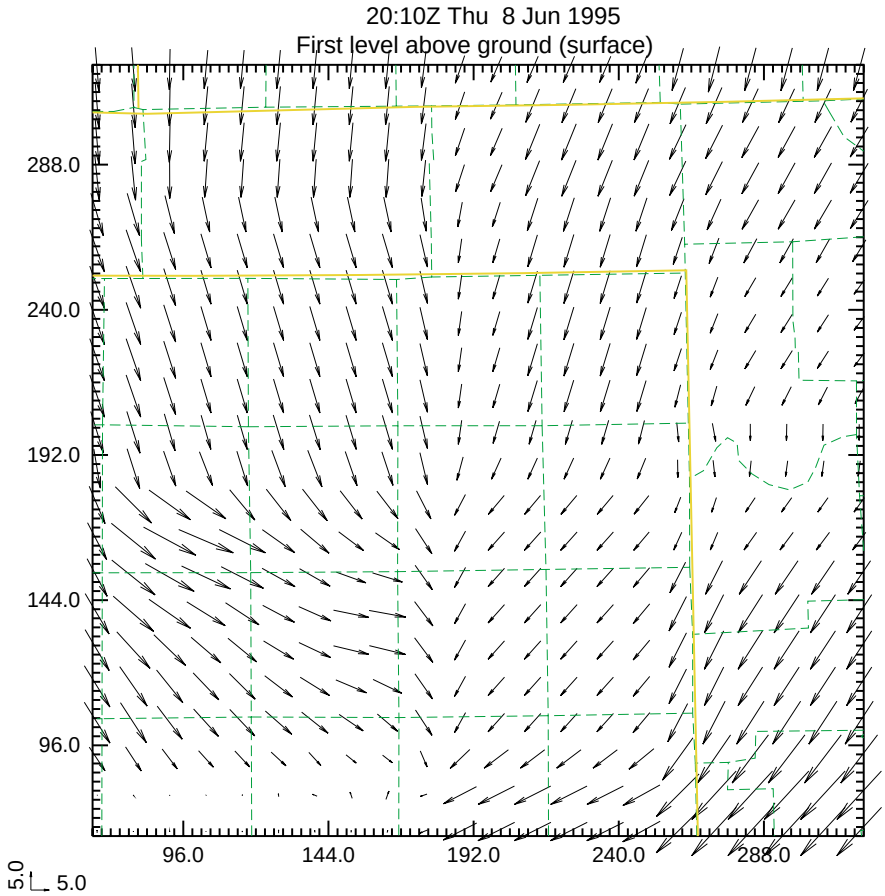

FIG. 9 Phase shift vectors for the 10-m AGL model level at 2010 UTC. Vector scale in the lower-left corner is in unit grid lengths (1 grid length=3 km).

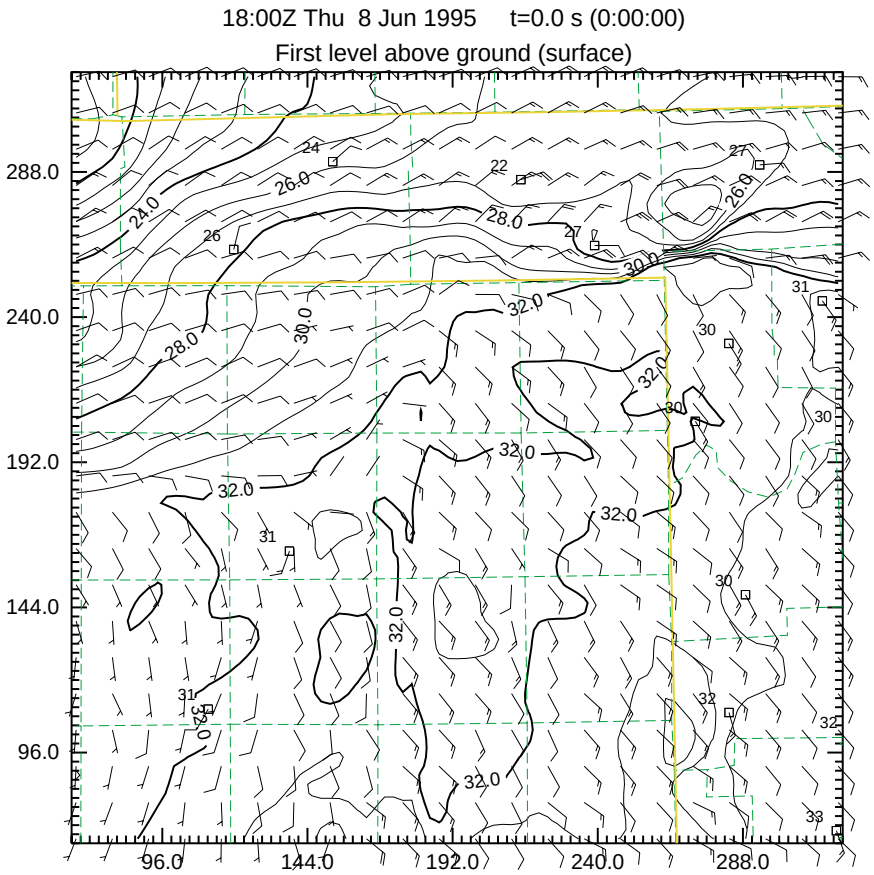

FIG. 10 Surface temperature (°C) and wind (barbs). Observations and ARPS fields after phase correction.

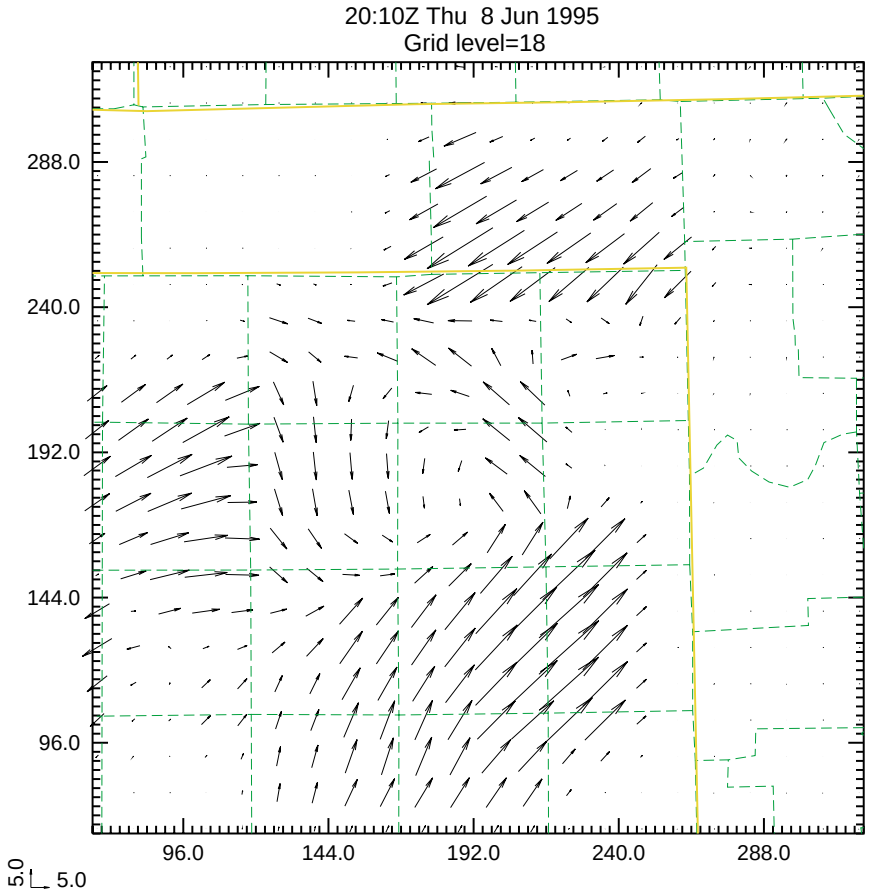

FIG. 11 Phase shift vectors for grid level 18. Vector scale in lower-left corner is in unit grid lengths (1 grid length=3 km).

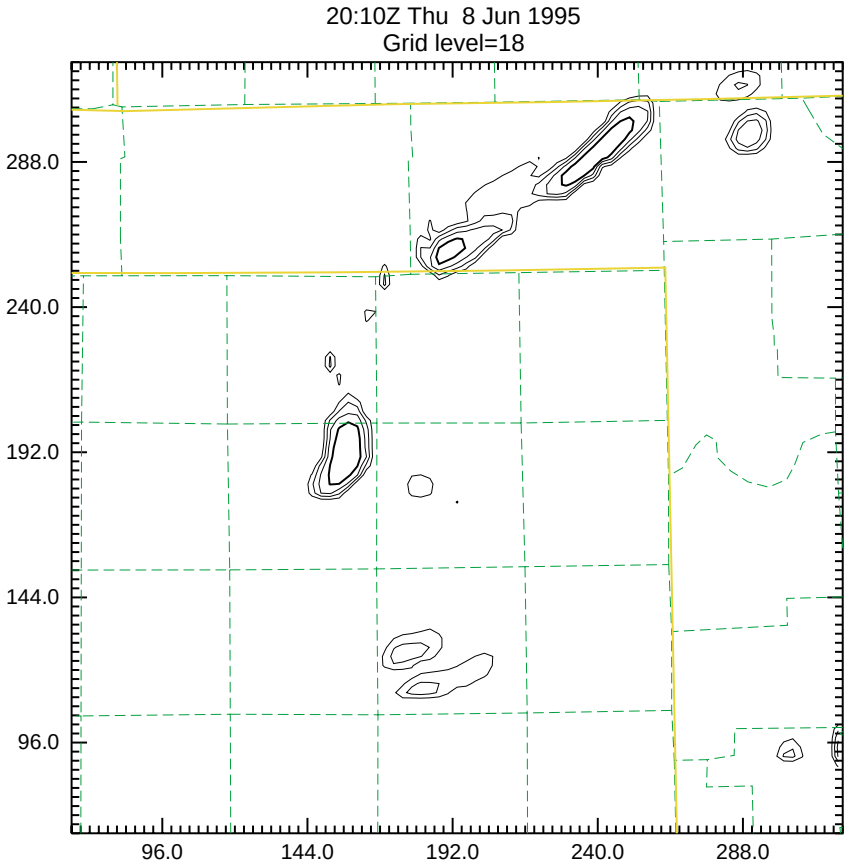

FIG. 12 Model reflectivity (dBZ) at grid level 18 after phase shift applied.

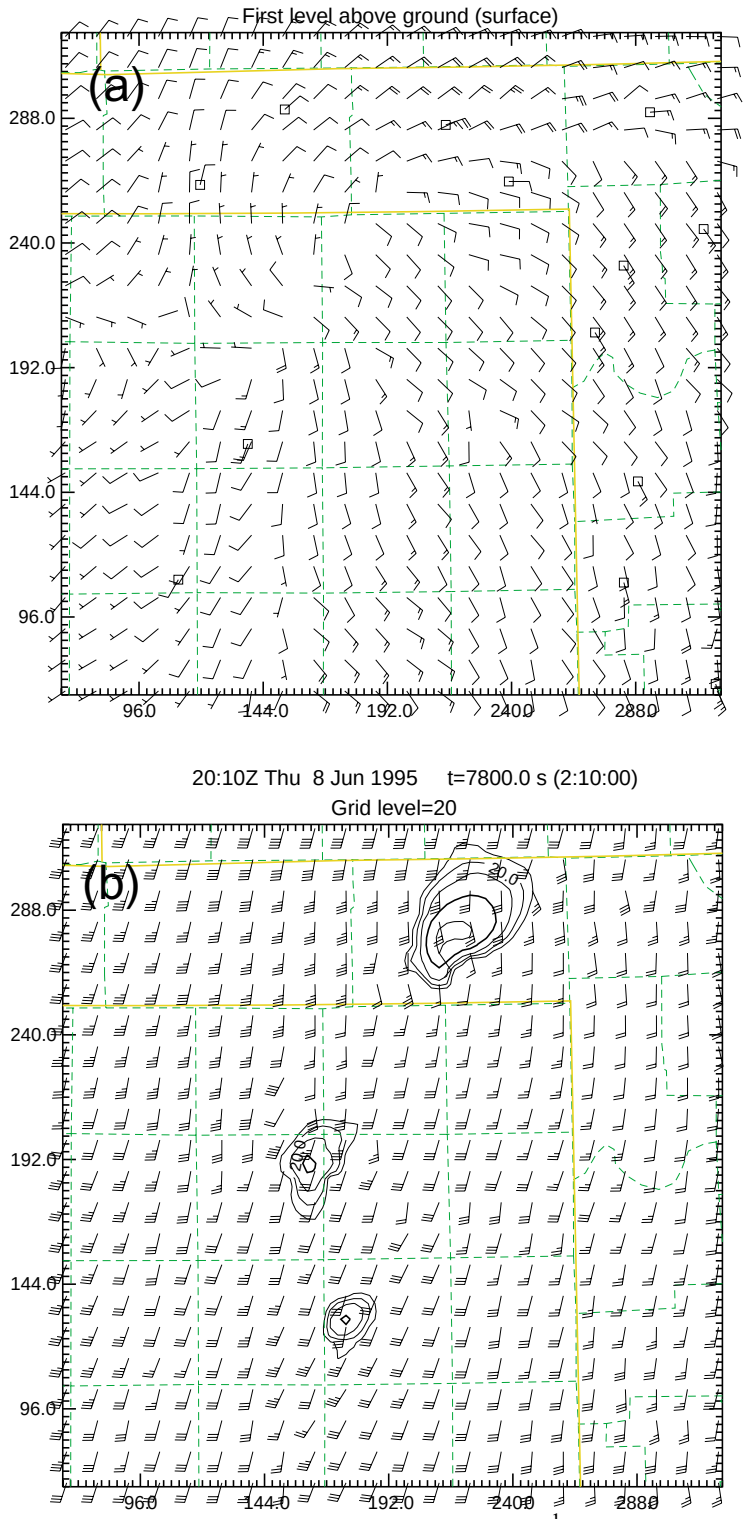

FIG. 13 Reflectivity (dBZ) and wind (ms^{-1}), from the ADAS_Only analysis at 2010 UTC. Level 2 (10-m AGL) and Level 20.

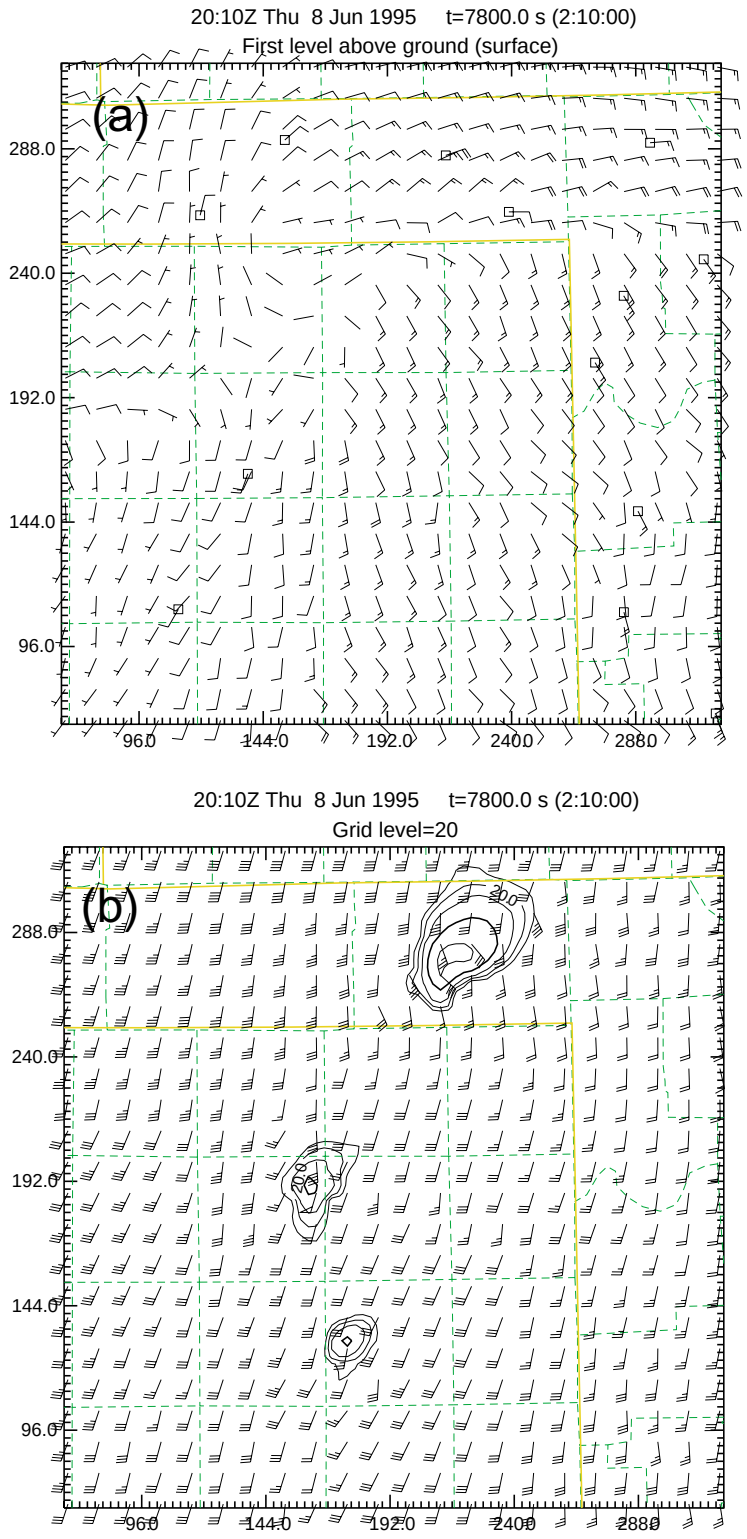

FIG. 14 Reflectivity (dBZ) and wind (ms^{-1}) for ADAS analysis on phase-corrected forecast (Shift+ADAS) at 2010 UTC. Level 2 (10-m AGL) and Level 20.

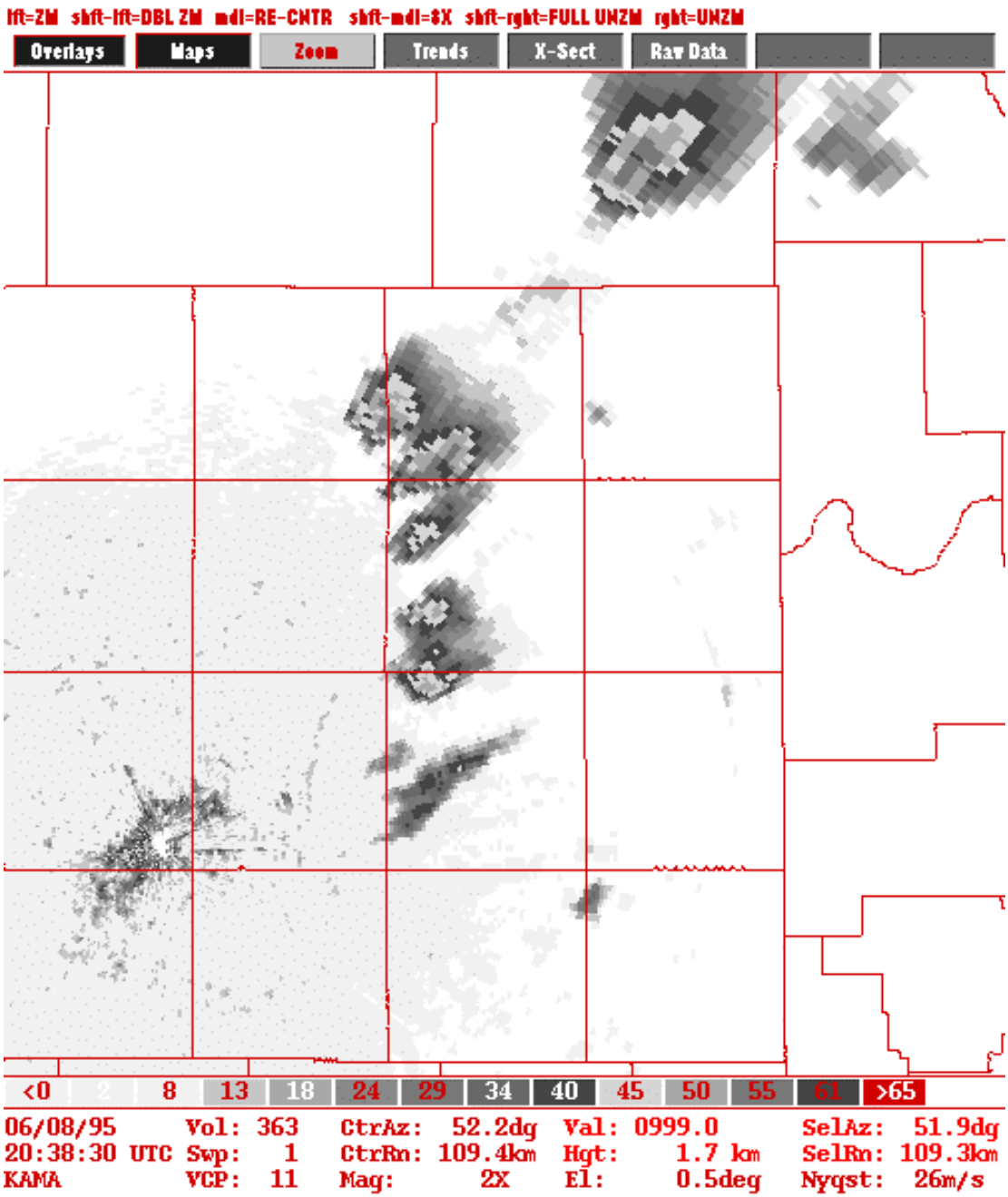

FIG. 15 Amarillo (KAMA), Texas, radar reflectivity (dBZ), 0.5 degree elevation angle, 2038 UTC 8 June 1995.

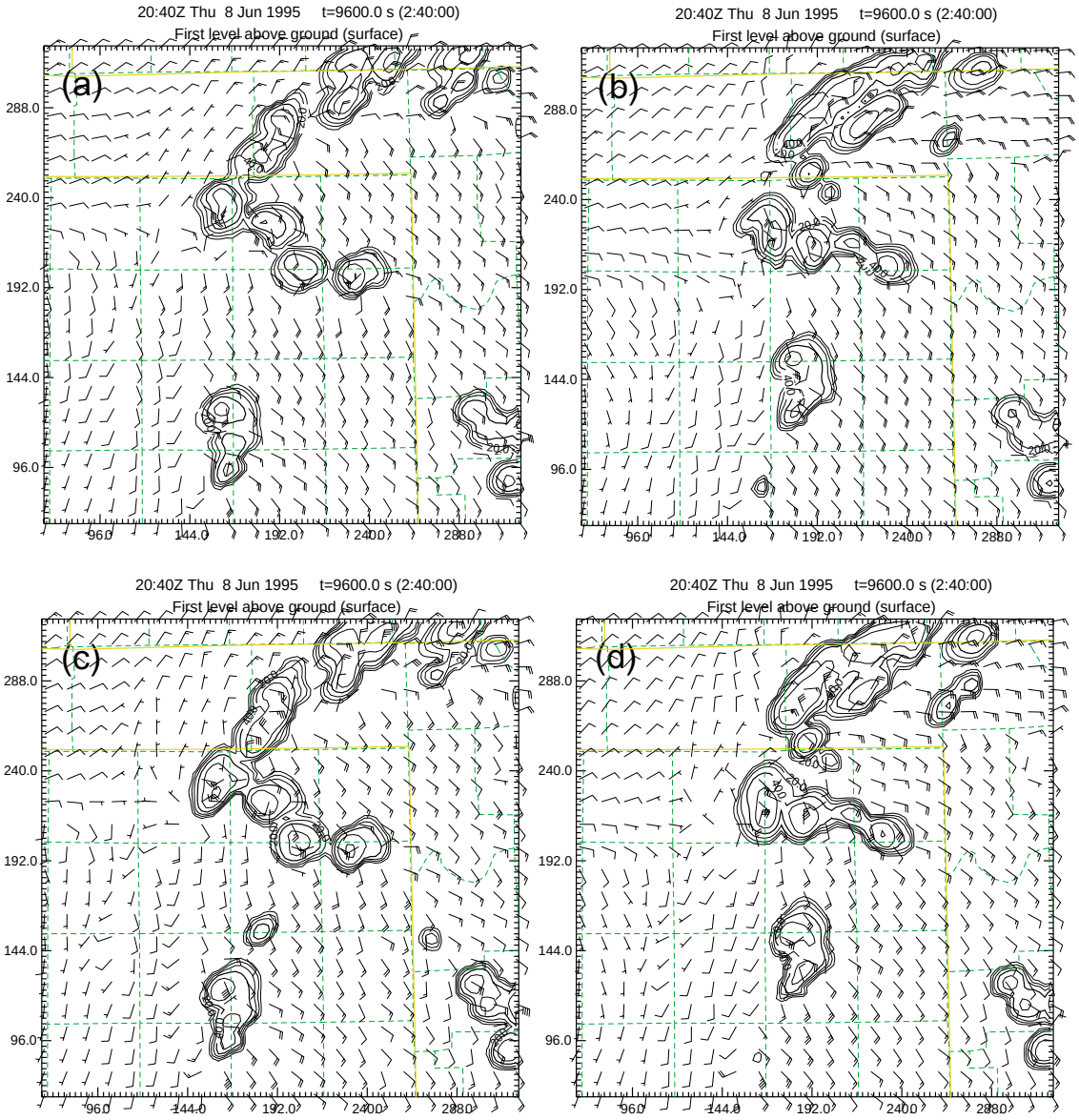

FIG 16 ARPS forecast fields of 10 m AGL winds (barbs) and reflectivity (dBZ) at 8 June 2040 UTC. a) Control, b) Shift, c) ADAS_Only, d) Shift+ADAS.