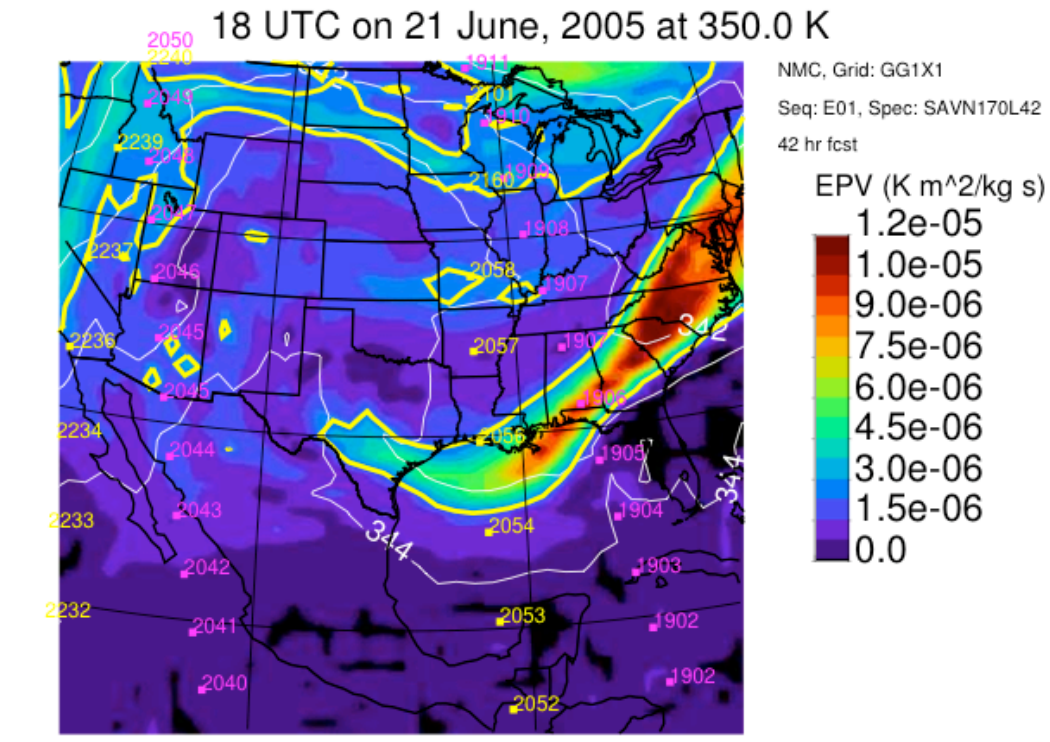
Weather Briefing, 20050620

Summary:

(1) No rain in the forecast until the weekend. Confidence in this is high through Thursday, moderately high through Friday. Models are in basic agreement through the forecast period (5 days). Would not completely rule out some isolated afternoon showers/T-storms, especially later in the week.
(2) PV feature crossing HIRDLS track for tomorrow's flight is roughly consistent with yesterday's forecasts – moved north less than a degree and a bit stronger. ETA has this feature about a degree north of GFS.
(3) Some clouds have appeared in the forecast north and south of tomorrow's PV feature. These are thin cirrus – northern clouds will be below aircraft, southern clouds either very thin or won't verify.
(4) For Wednesday, along the MLS track, have the same PV feature as tomorrow's sitting north of us, with air from the subtropics entrained north of that. Convective activity along a line from the Gulf of Campeche to Tampa, so might not get too far south.
(5) For Wednesday, lots of cloud forecast north of the TX/OK border, essentially high thin cirrus and probably overdone.
(6) For Wednesday, GFS puts a low with lots of cloud in the northwestern Gulf. Local forecasters do not believe this, attributing it to convective feedback.
(7) For Thursday have HIRDLS track across eastern tip of Louisiana. Cloud forecast suffers from [probably] false GFS low SE of New Orleans. Lots of high cloud, but mostly thin cirrus – no big thick banks.
(8) For Friday, MLS track right over us with lots of interesting PV features. No obvious high thick cloud banks for OMI. Convective line from Yucatan to Florida has shifted south.

Narrative:

Will skip narrative today and attach some relevant figures.


18 UTC on 21 June, 2005 at 350.0 K
NMC, Grid: GG1X1
Seq: E01, Spec: SAVN170L42
42 hr fcst
EPV (K m^2/kg s)
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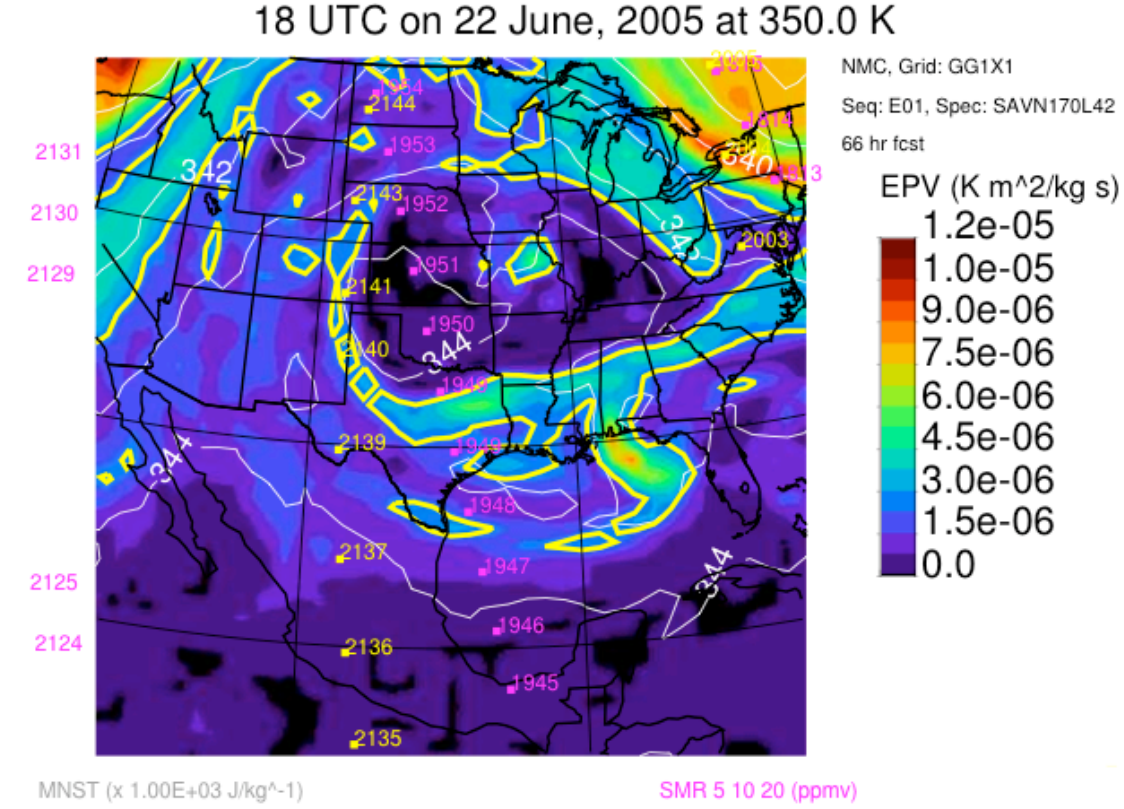
1.0e-05
9.0e-06
7.5e-06
6.0e-06
4.5e-06
3.0e-06
1.5e-06
0.0
MNST (x 1.00E+03 J/kg^-1)
SMR 5 10 20 (ppmv)


18 UTC on 22 June, 2005 at 350.0 K
NMC, Grid: GG1X1
Seq: E01, Spec: SAVN170L42
66 hr fcst
EPV (K m^2/kg s)
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1.0e-05
9.0e-06
7.5e-06
6.0e-06
4.5e-06
3.0e-06
1.5e-06
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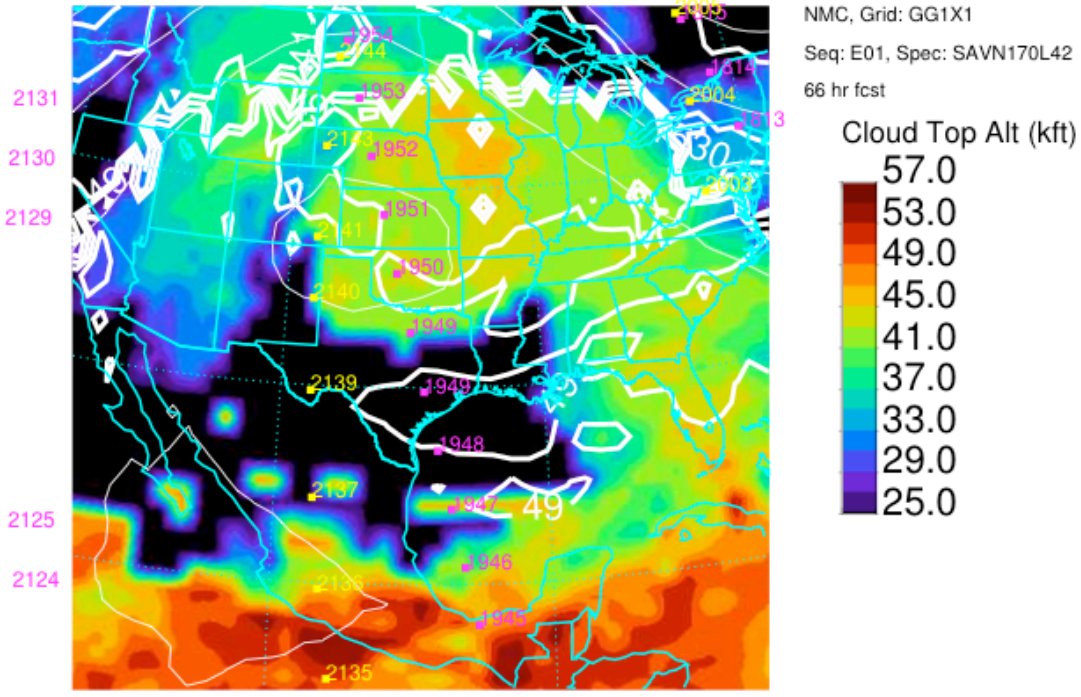
MNST (x 1.00E+03 J/kg^-1)
SMR 5 10 20 (ppmv)

18 UTC on 22 June, 2005 at 121.7 mb



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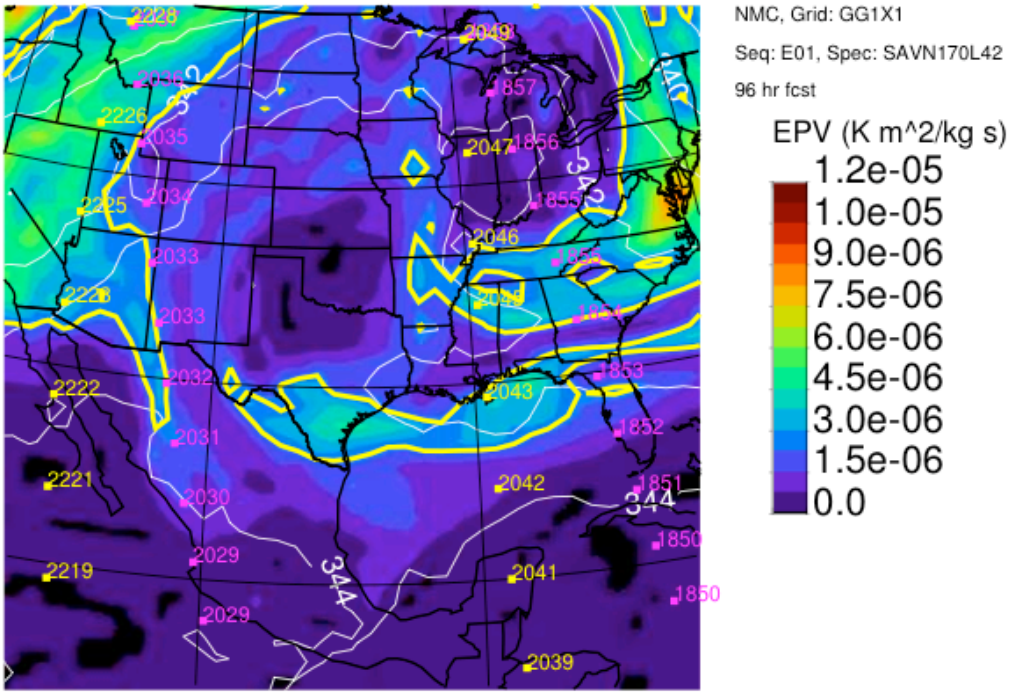
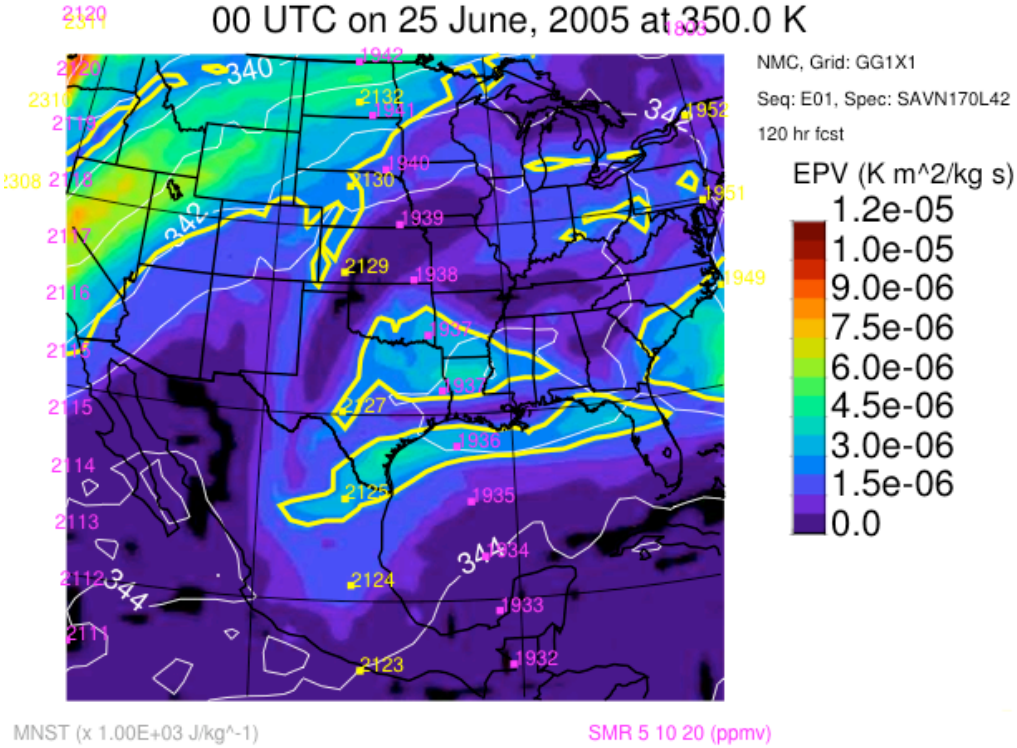
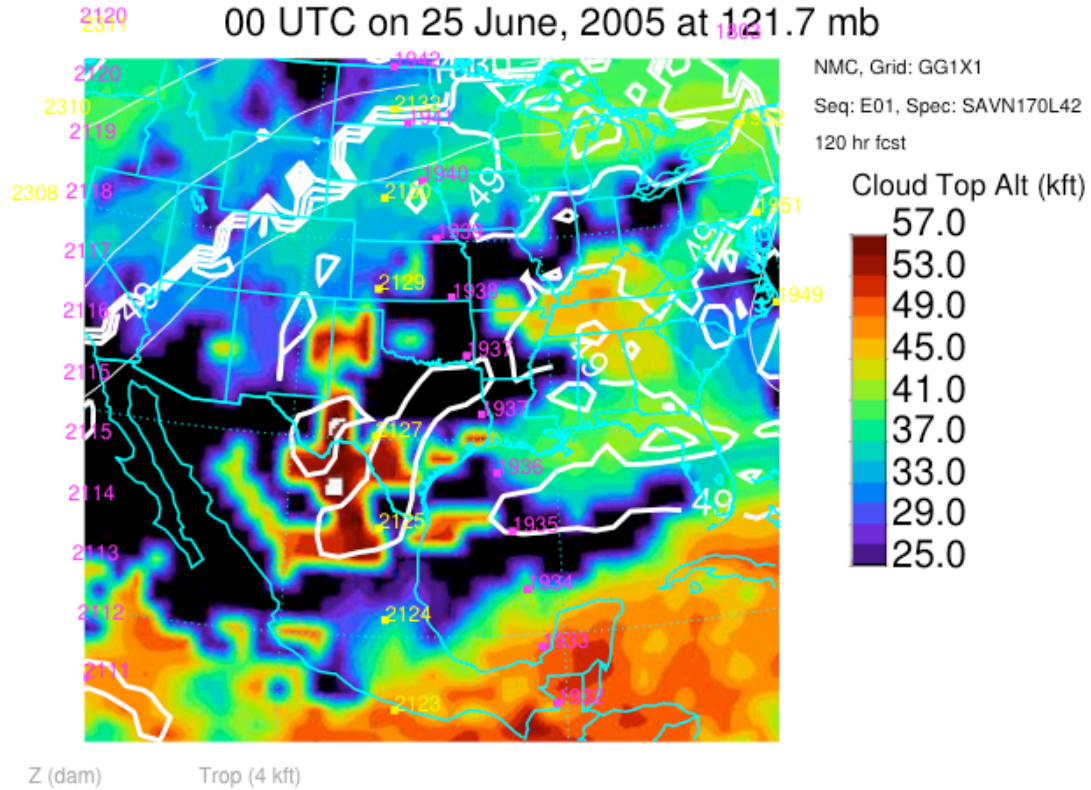



00 UTC on 25 June, 2005 at 350.0 K
NMC, Grid: GG1X1
Seq: E01, Spec: SAVN170L42
120 hr fcst
EPV (K m^2/kg s)
1.2e-05
1.0e-05
9.0e-06
7.5e-06
6.0e-06
4.5e-06
3.0e-06
1.5e-06
0.0
MNST (x 1.00E+03 J/kg^-1)
SMR 5 10 20 (ppmv)


00 UTC on 25 June, 2005 at 121.7 mb
NMC, Grid: GG1X1
Seq: E01, Spec: SAVN170L42
120 hr fcst
Cloud Top Alt (kft)
57.0
53.0
49.0
45.0
41.0
37.0
33.0
29.0
25.0
Z (dam)
Trop (4 kft)