Flight Notes:

0423UTC, heading 286.68 deg at 34.44 -92.29 in AR. Some severe thunderstorm warnings (STW) on AR-OK border and 1 tornado warning issued at 346UTC. A confirmed large tornado. Tornado warning cancelled at 445UTC.

0428UTC, heading 315.86 deg at 34.64 -92.79

0440UTC, heading 271.41 deg at 35.5 -94, intercepting a decaying storm at OK-AR border, with lightning.

0444UTC, a STW is in effect just west, at 35.5 -95.5, with much more lightning sources. Aircraft is moving in direction of this storm (0448UTC).

0451UTC, aircraft overflew storm above mentioned. Heading 266 deg.

0455UTC, aircraft passed storm and keeps moving west (heading 267.59 deg, at 35.48 -96.06).

0456UTC, first STW (wind, hail) in the west OK line (36.1 -98.5).

0459UTC, another STW just NW of Oklahoma City (35.7, -97.7), another line.

0504UTC, very nice circulation on storm at north of West OK line.

0505UTC, aircraft is at 35.44 -97.09 moving 280 deg.

0510UTC, aircraft is turning north at 35.62 -97.8. There is a storm with high flash rates to the north.

0511UTC, now heading 23.51 deg.

0516UTC, It has been flying over storms first mentioned at 0459UTC.

0518UTC, It turned to the left, about 315 deg, and then its turning south again (36.46 -97.56).

0522UTC, heading 203 deg (36.16 -97.47), hitting the line again. It will change to intercept western line. At 0515UTC, a STW was issued for a cell at south of the W OK line.

0529UTC, It is slowly turning right (35.5, -97.81).

0535UTC, It is still turning right, now heading west.

From 0519 to 0534UTC, all cells of the line became active STW.

0538UTC, at 35.31, -98.69, still turning right, heading north (0 deg), intercepting severe cell. It is not the southernmost cell of the line.

0539UTC, heading 27 deg right above the cell.

0541UTC, heading 28 deg going to a storm at NE, with STW as well.

0545UTC, at 36.05 -98.29. After passing cell, it is turning left.

0546UTC, turning to the right.

0549UTC, heading 206.75 deg at 36.11 -98.19. Going to intercept those two cells again. STW is still in effect.

0600UTC, 35.11 -98.83, turning right

0601UTC, turning left 35.04 -98.93

0604UTC, heading 27.31 deg, 35.09 -98.71, going to intercept the southern cell again. Very good rotation, tornado possibiliy.

0607UTC, intercepting cell, possibility of tornado

0614UTC, after intercepting both cells in the line, short left turn and now turning right to intercept cells again.

0618UTC, heading 208.5, intercepting cells again.

0624UTC, right above southern cell, 35.6, -98.3.

0628UTC, it is turning right. Both cells still has STW and circulation.

0630UTC, turned north, 35.35, -98.75.

0632UTC, turned east, 35.58, -98.75.

0633UTC, heading east in order to intercept the southern cell. Both cells still has very good rotation.

0638UTC, aircraft just passed the cell, at 35.65 -97.81, it turned left and then right (0641UTC, 35.83 -97.62)in order to intercept cell again.

0645UTC, heading west 270 deg, 3.65 -97.72, going to intercept cell again.

0652UTC, after passed cell, it started turning left in order to intercept another (long-lived) STW cell.

0655UTC, right above cell, at 35.48 -98.86, heading 244 deg.

0658UTC, just passed storm, heading 241 deg to intercept STW cells in SW OK.

0706UTC: Passing over wester portion of cell at 34. 6931 -99.7750

0708UTC: just passed over southern end of cell at 34.5191, -998203

0709UTC: turning west at 34.4091, -99.8698

0711UTC: making 180 turn to head north, heading 10.34°, at 34.3094, -99.8464

0715UTC: passing right over same cell as 0706UTC at 34.5530, -99.7893

0721UTC: passing right over cell at 35.2170, -99.6122; cell is severe t storm warned

0722UTC: heading change to 70.91° at 35.2633, -99.5587

0729UTC: flying right over cell at 35.5178, -98.6680; storm is severe t storm warned

0734UTC: intercepting severe t storm warned cell at 35.7090, -97.9755

0737UTC: centered right over cell at: 35.8113, -97.5972

0741UTC: making left turn at 35.9641, -97.2365

0744UTC: new heading is now 57° to intercept same cell at 36.0044, -97.1086

0746UTC: passing over cell at 35.8893, -97.3207

0747UTC: exiting southern end of cell at 35.7868, -97.5087; cell is severe t storm warned

0754UTC: passing over southeastern end of cell at 35.3527,-97.2996

0756UTC: initiating turn, overflew deep moist convection, and cloud shield, cloud top temps 210 K at 35.2992, -98.3860

0800UTC: new heading of 78° at 35.3174, -98.4547, making dog bone

0807UTC: flying over Oklahoma City at 35.5099, -97.5690

0813UTC: flew ~83nm dog bone from 35.3196 , -98.4348 to 35.6668, -96.8004

0815UTC: made left turn, heading now 330° at 35.8044, -96.7041

0817UTC: made left turn, heading now 257° at 36.0023, -96.8860

0819UTC: flying over severe T'storm warned cell at 35.9688, -97.0536

0825UTC: flying over center of severe T'storm warned cell at 35.7770, -97.9715

0831UTC: plane made ~92.32nm leg from 36.0003, -96.8914 to 35.5682, 198.7083

0835UTC: plane flew right over cell flash flood warned, at 35.5566, -98.9886

0837UTC: new heading 75° at 35.4695, -98.7486, flying new leg

0843UTC: flying over severe t storm warned cell at: 35.6506, -98.0306

0853UTC: overflew severe t storm warned cell at 35.9584, -96.6932

0856UTC: RTB at 36.0406, -96.2927