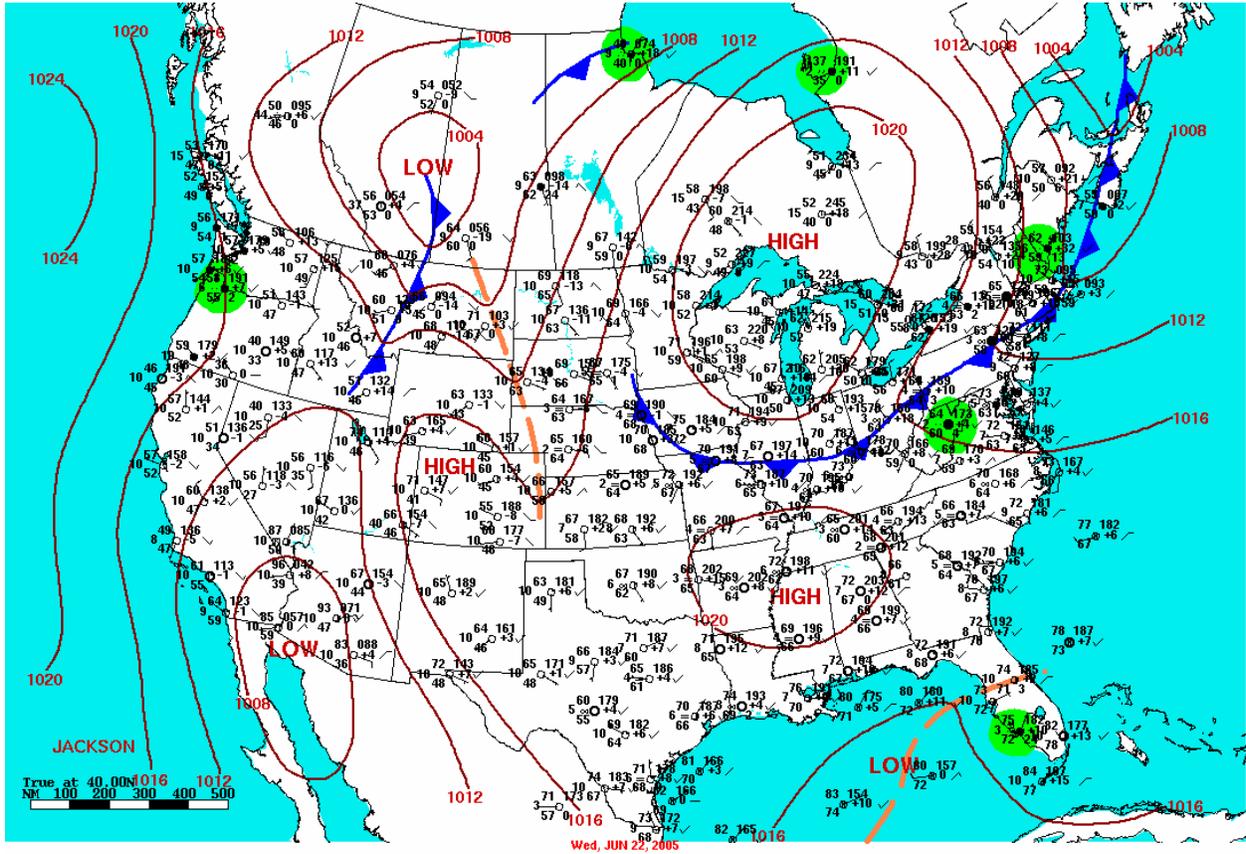


APPENDIX B

CASE STUDY PLOTS



Surface Weather Map and Station Weather at 7:00 A.M. E.S.T.

Figure 1. Surface weather patterns on June 22, 2005 at 6:00 AM CST.

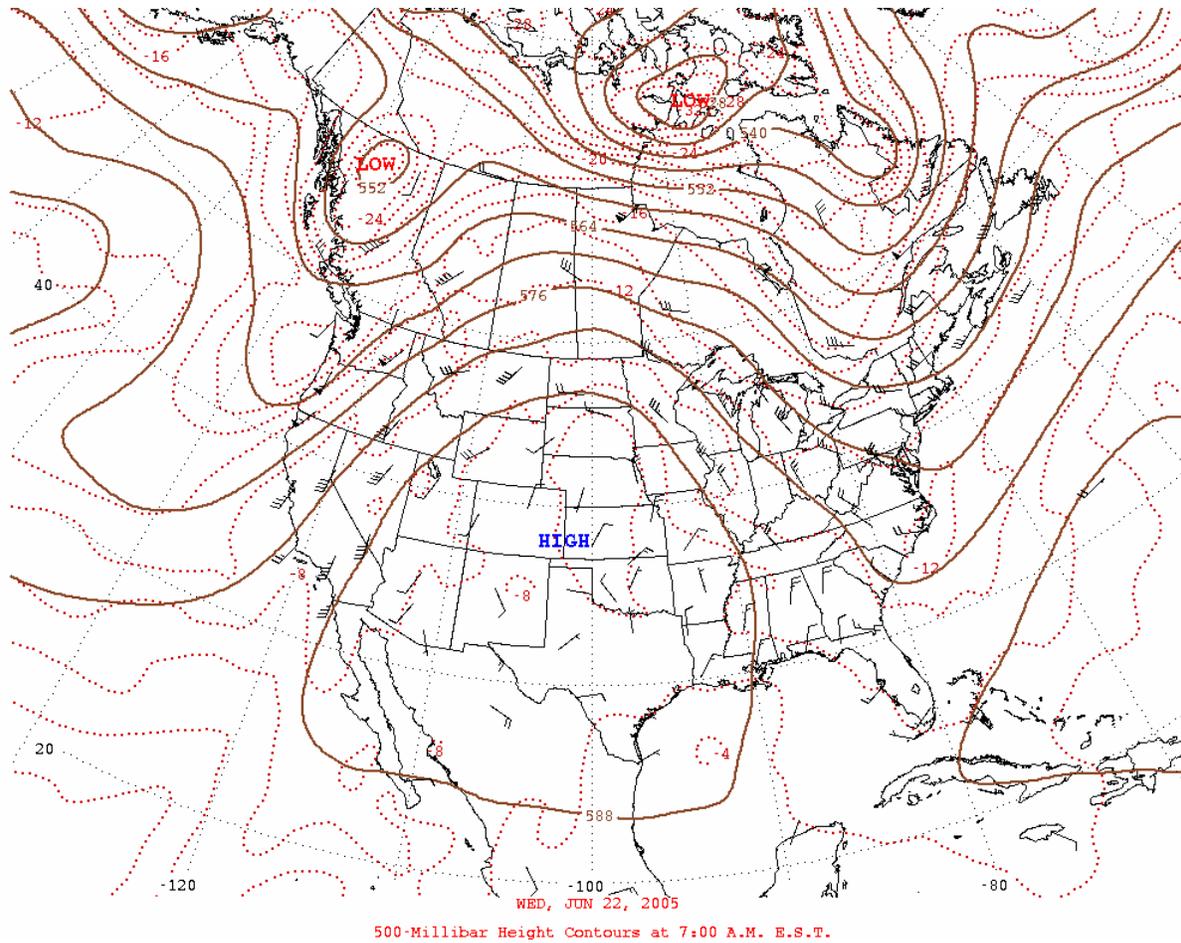


Figure 2. Aloft weather patterns on June 22, 2005 at 6:00 AM CST.

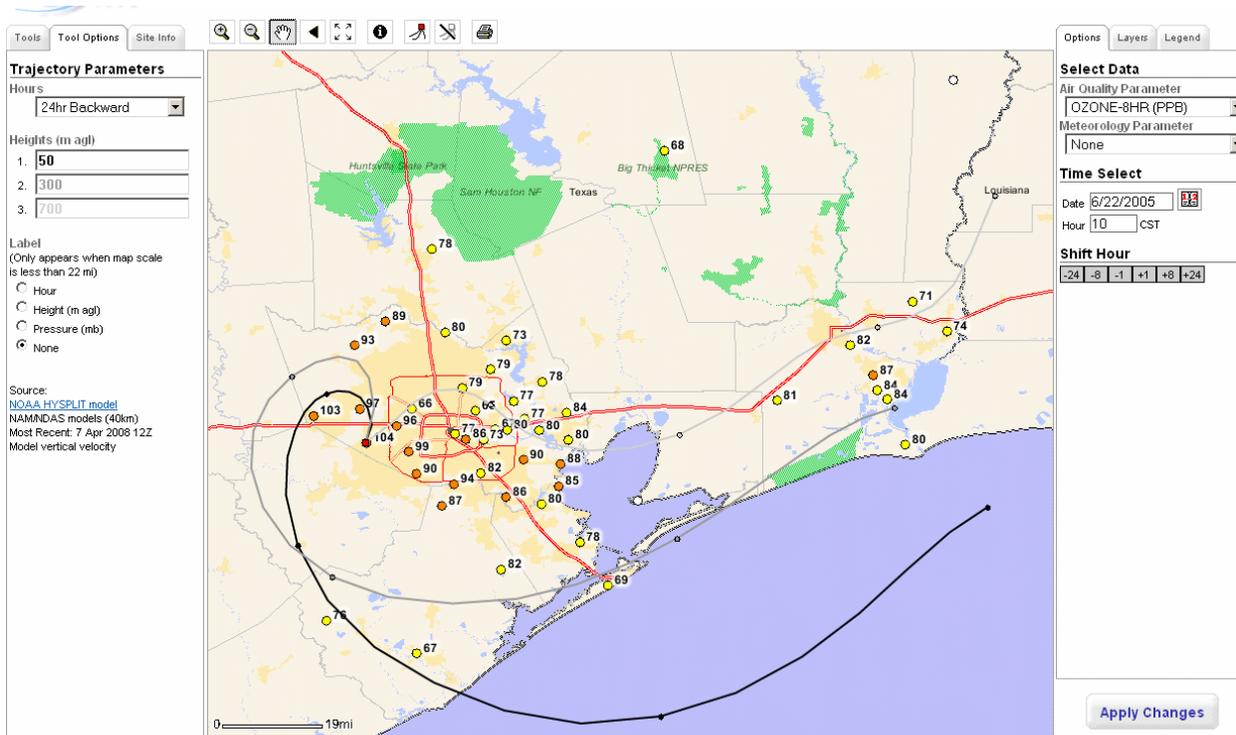


Figure 3. 24-hour backward trajectories for June 22, 2005 ending at 10:00 AM CST calculated using the AIRNow-tech Navigator software.

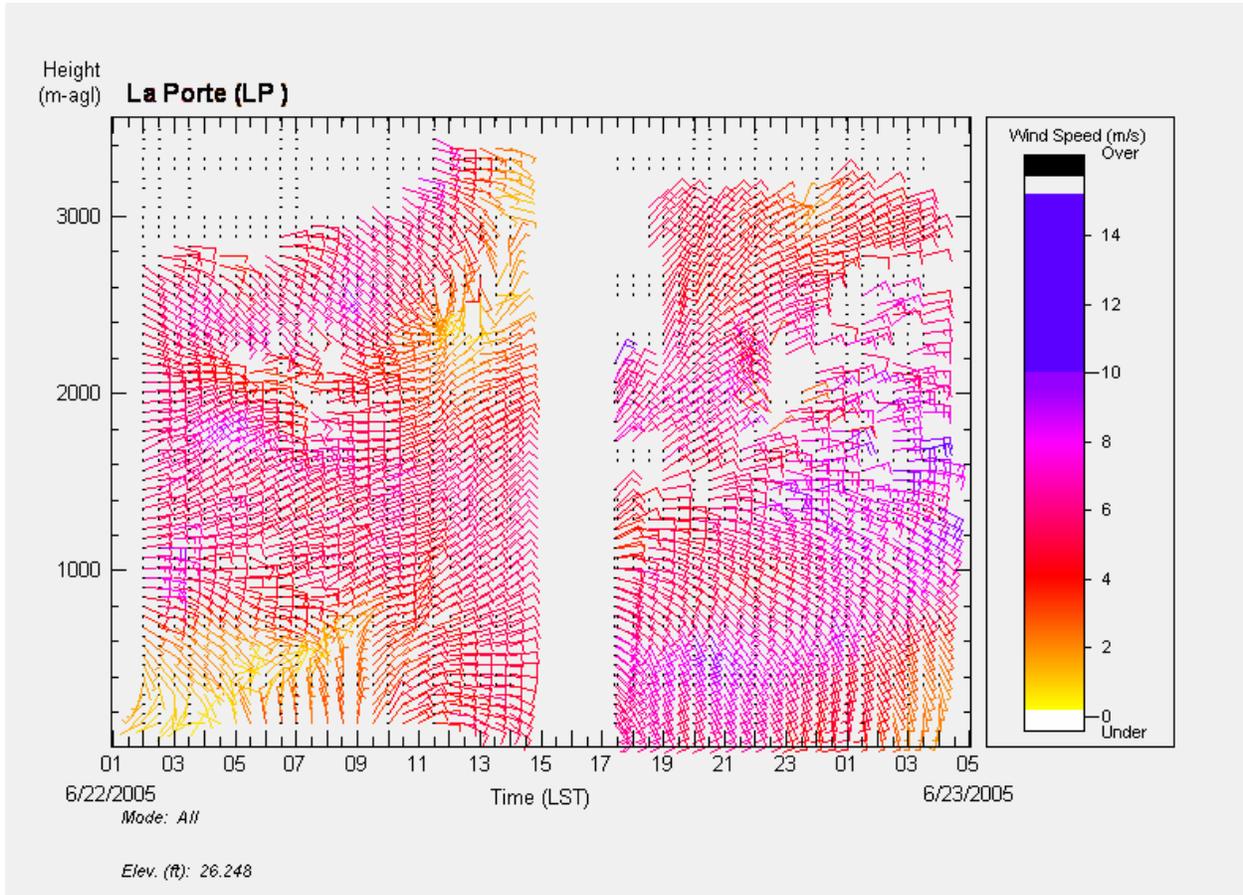
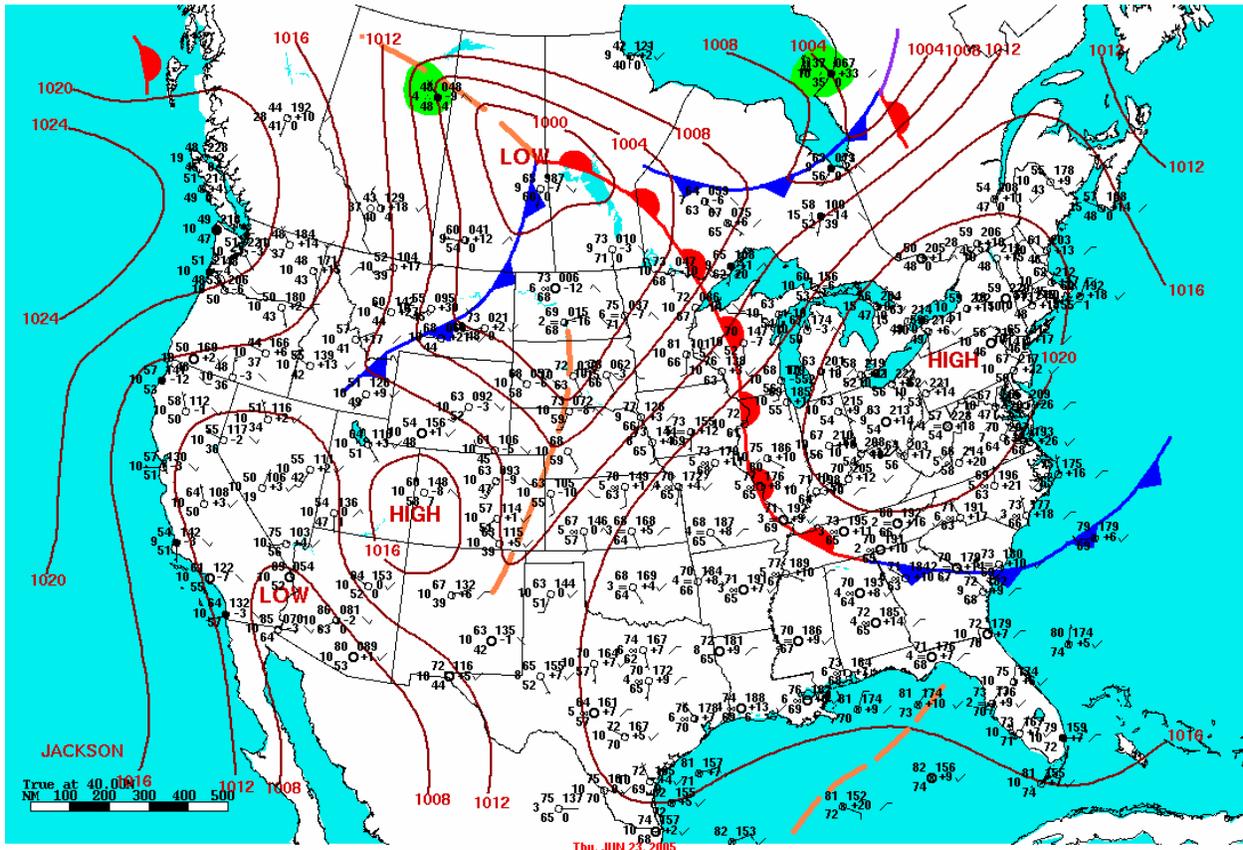


Figure 4. RWP winds at LaPorte for 1:00 AM CST on June 22, 2005 through 4:00 AM CST on June 23, 2005.



Surface Weather Map and Station Weather at 7:00 A.M. E.S.T.

Figure 5. Surface weather patterns on June 23, 2005 at 6:00 AM CST.

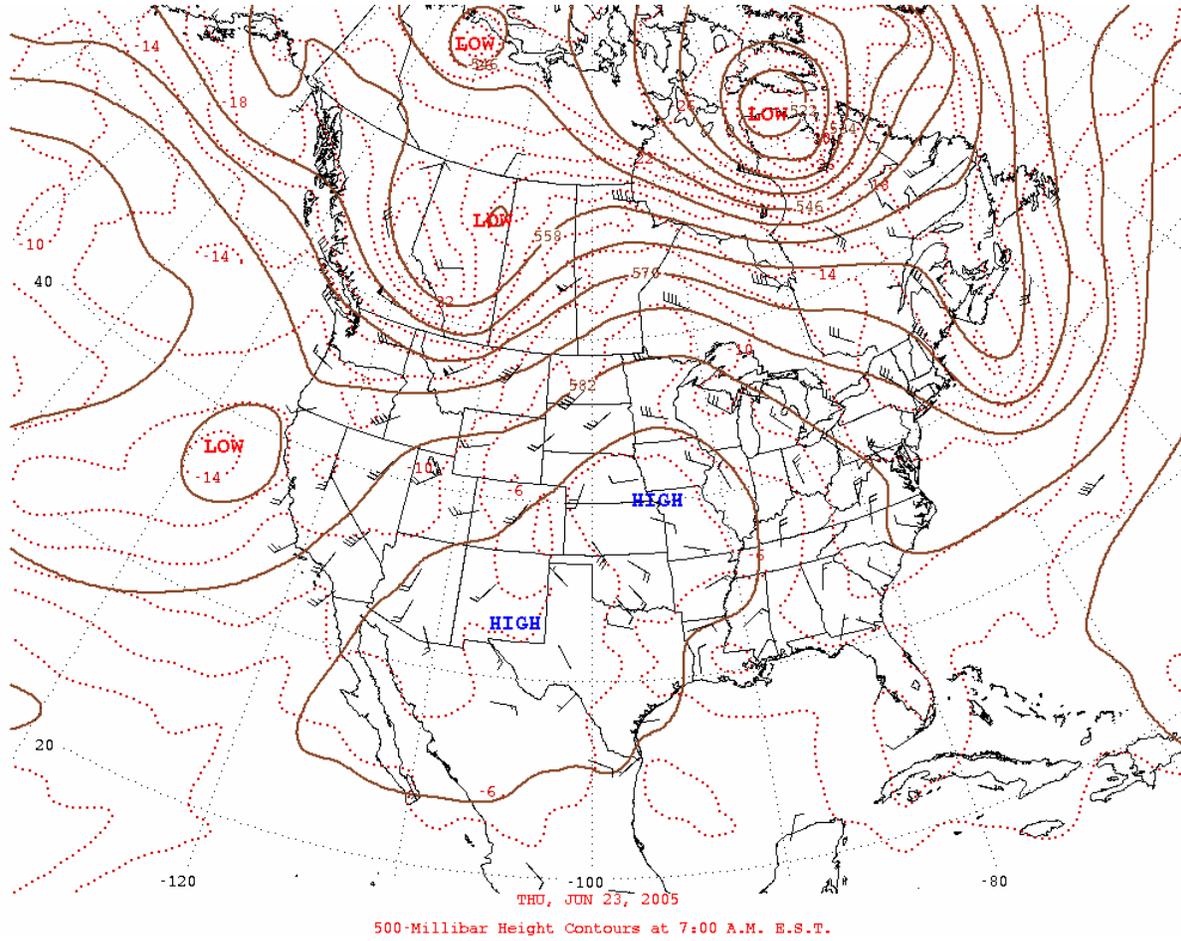


Figure 6. Aloft weather patterns on June 23, 2005 at 6:00 AM CST.

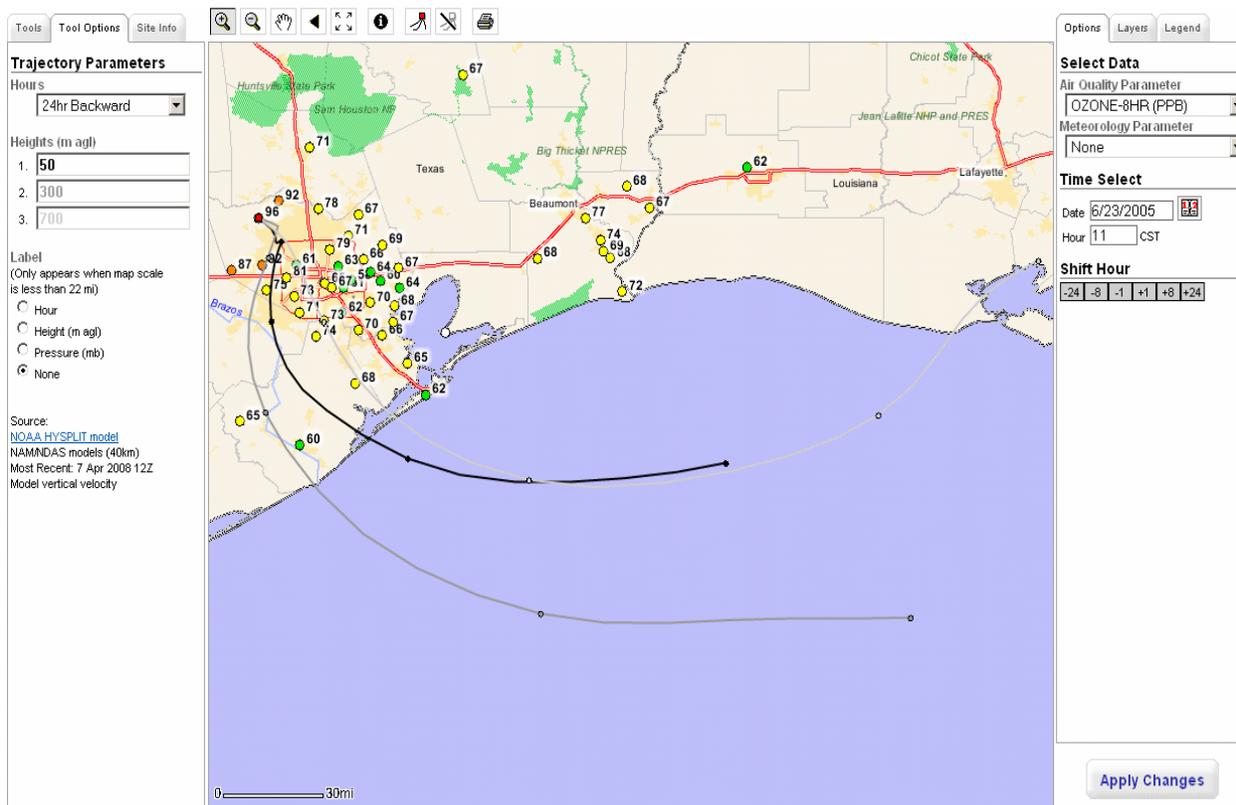


Figure 7. 24-hour backward trajectories for June 23, 2005 ending at 11:00 AM CST calculated using the AIRNow-tech Navigator software.

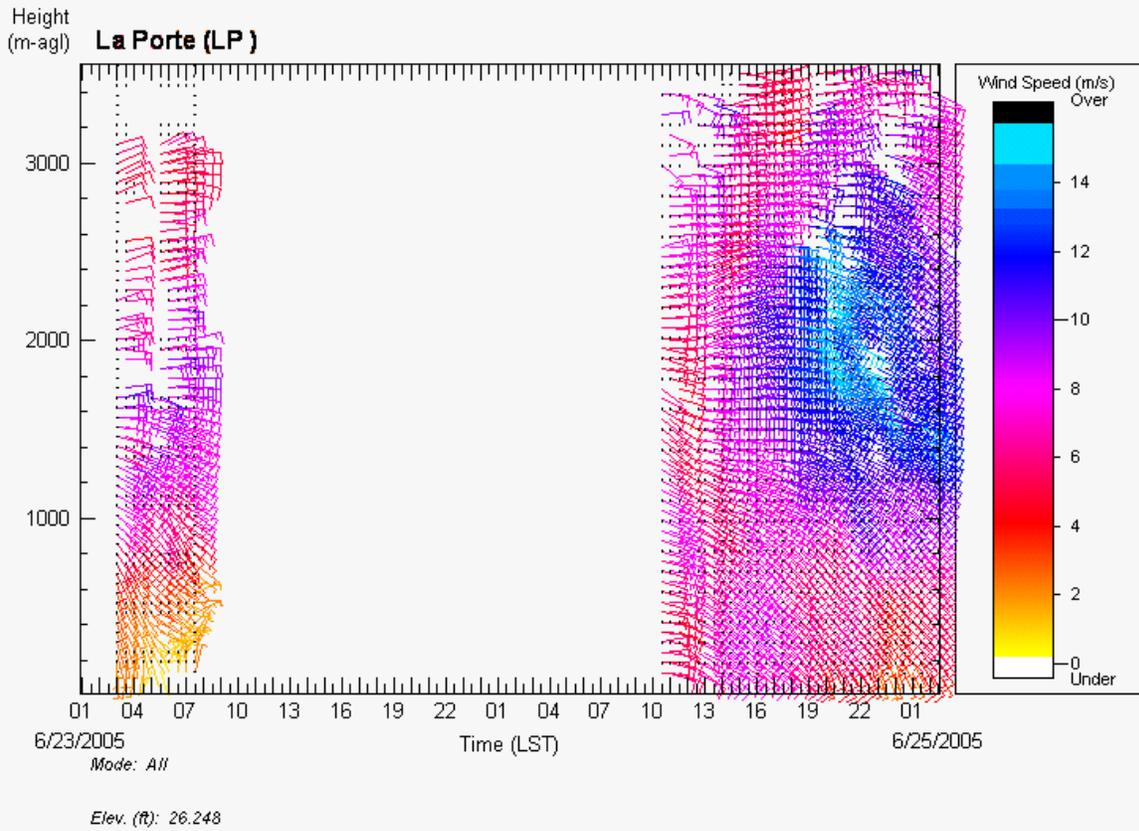
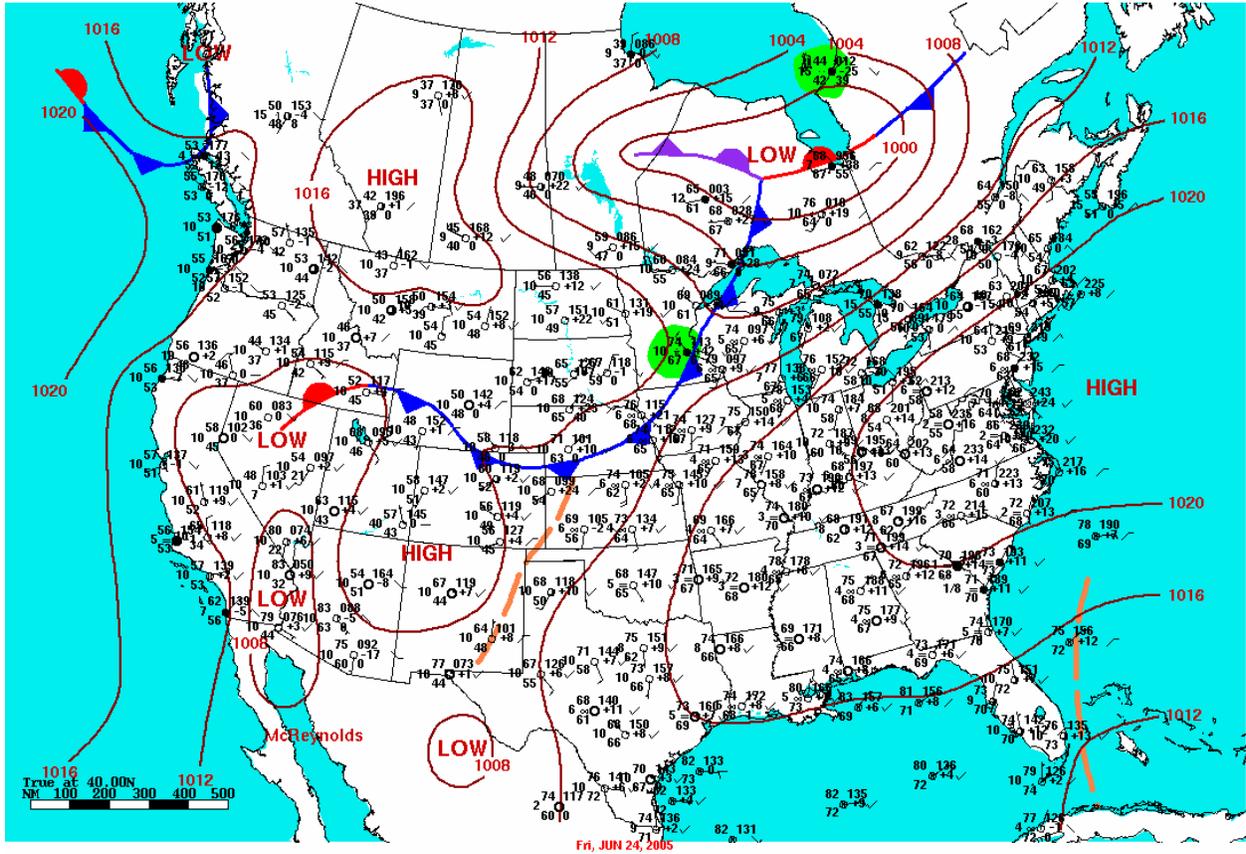


Figure 8. RWP winds at LaPorte for 1:00 AM CST on June 23, 2005 through 2:00 AM CST on June 25, 2005.



Surface Weather Map and Station Weather at 7:00 A.M. E.S.T.

Figure 9. Surface weather patterns on June 24, 2005 at 6:00 AM CST.

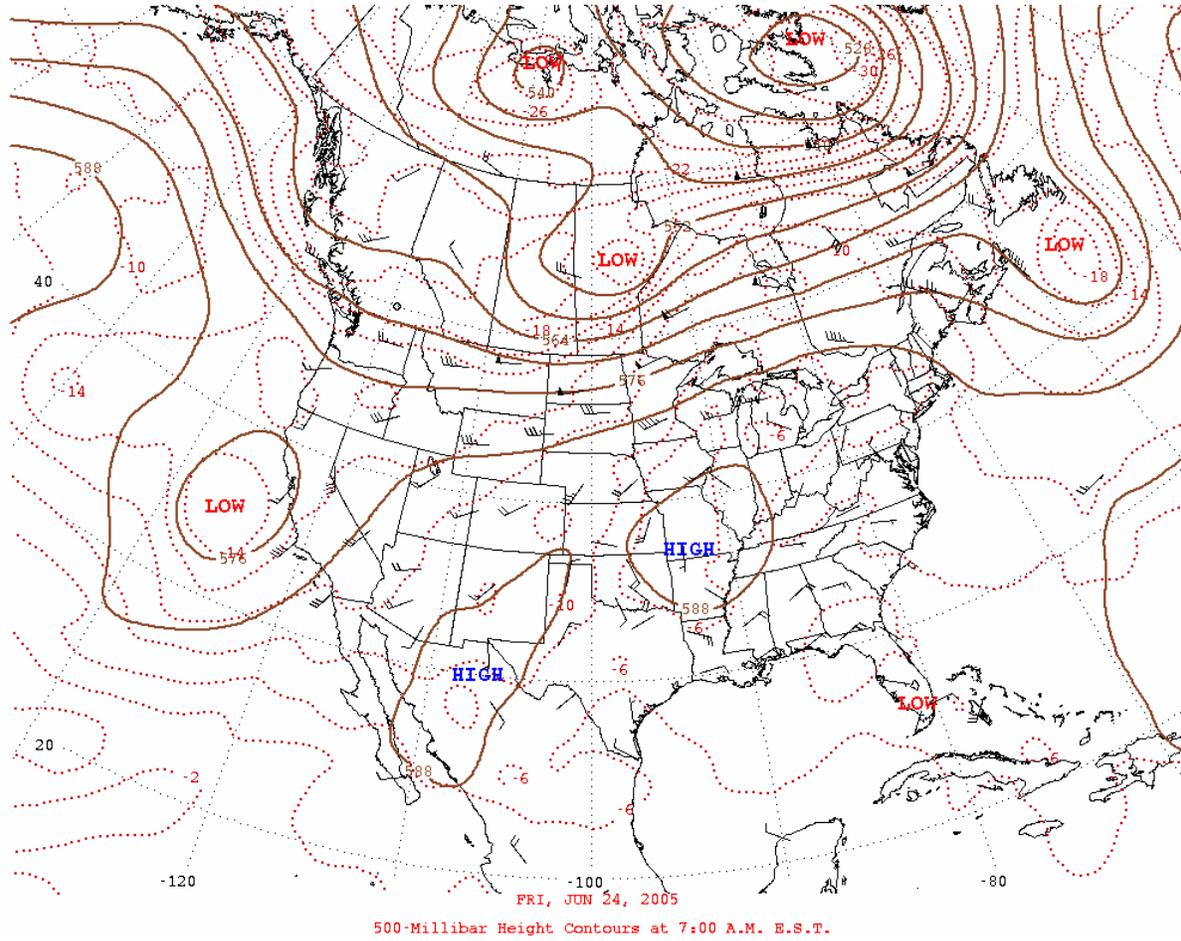


Figure 10. Aloft weather patterns on June 24, 2005 at 6:00 AM CST.

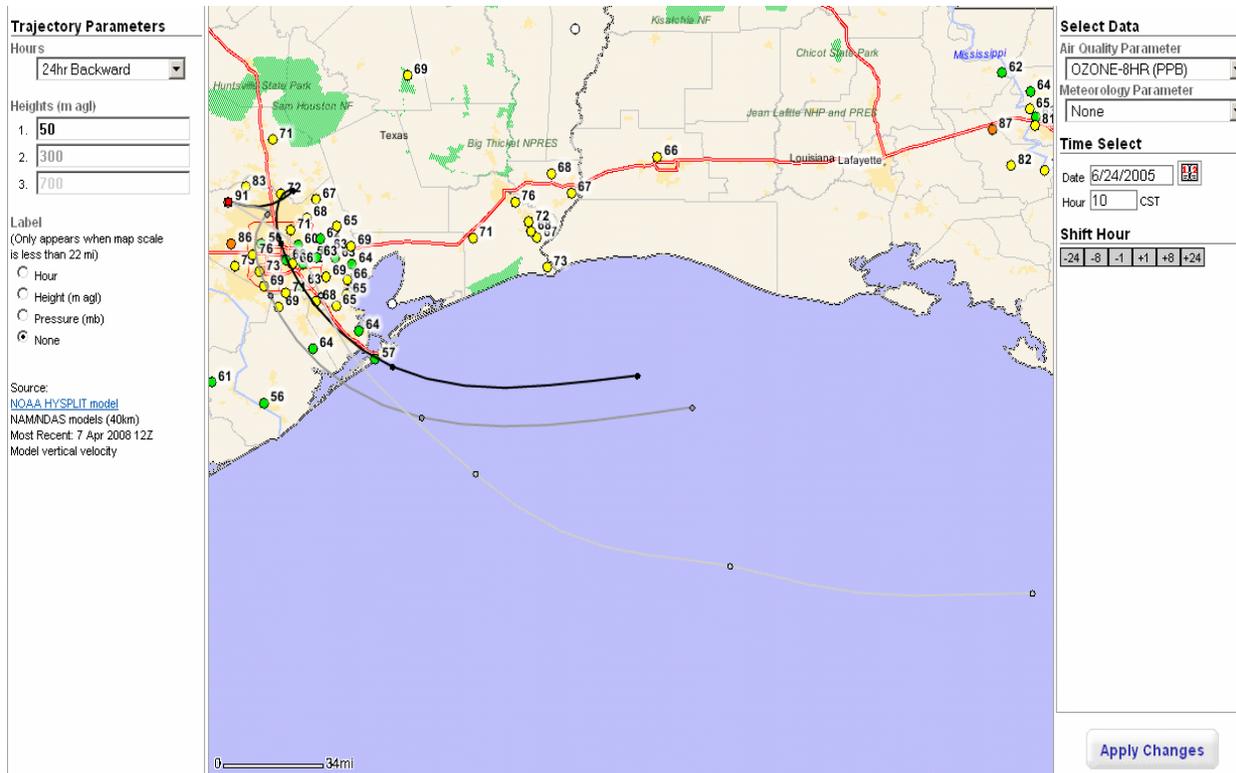


Figure 11. 24-hour backward trajectories for June 24, 2005 ending at 10:00 AM CST calculated using the AIRNow-tech Navigator software.

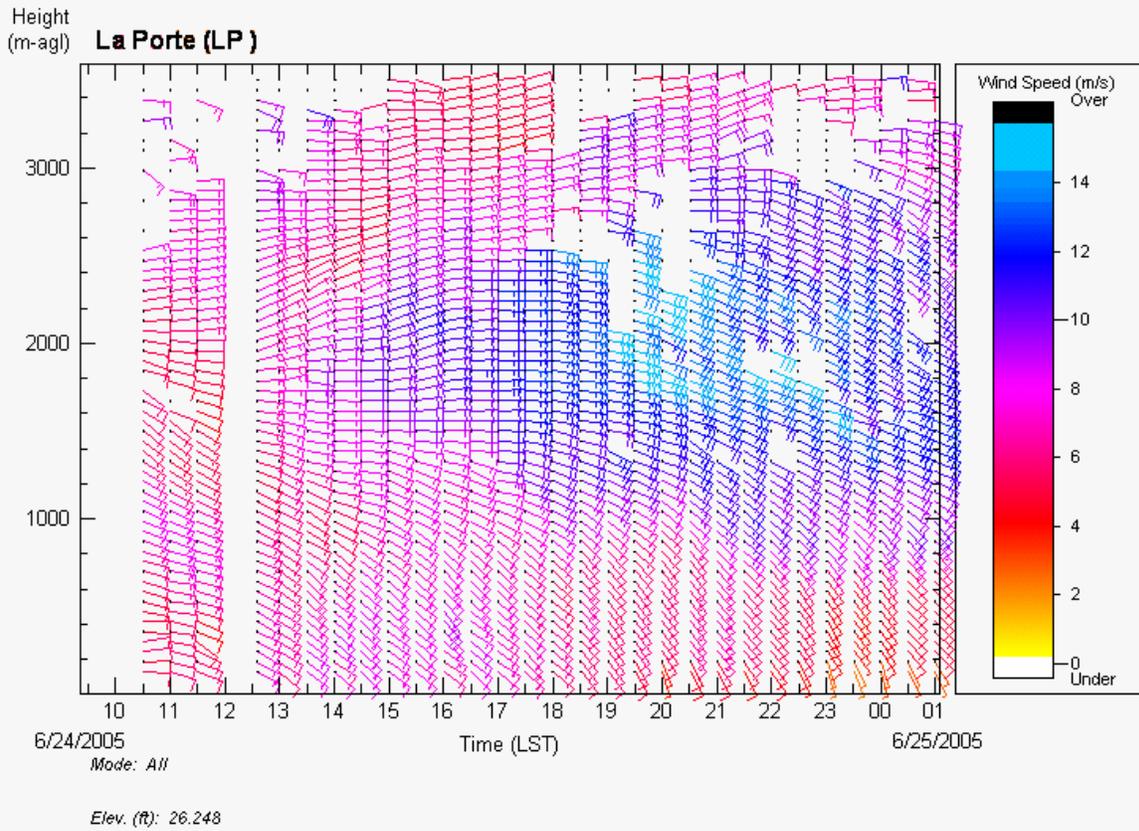
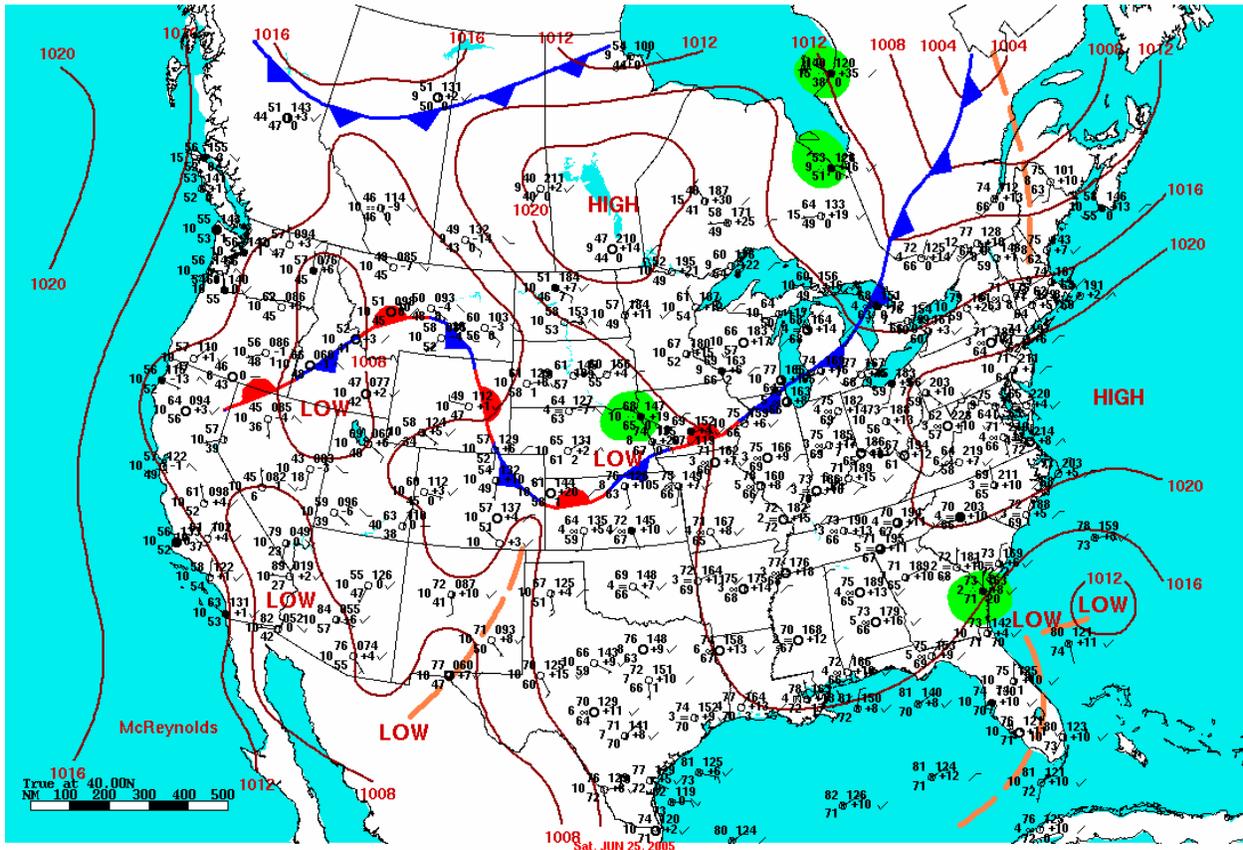


Figure 12. RWP winds at LaPorte for 10:30 AM CST on June 24, 2005 through 1:00 AM CST on June 25, 2005.



Surface Weather Map and Station Weather at 7:00 A.M. E.S.T.

Figure 13. Surface weather patterns on June 25, 2005 at 6:00 AM CST.

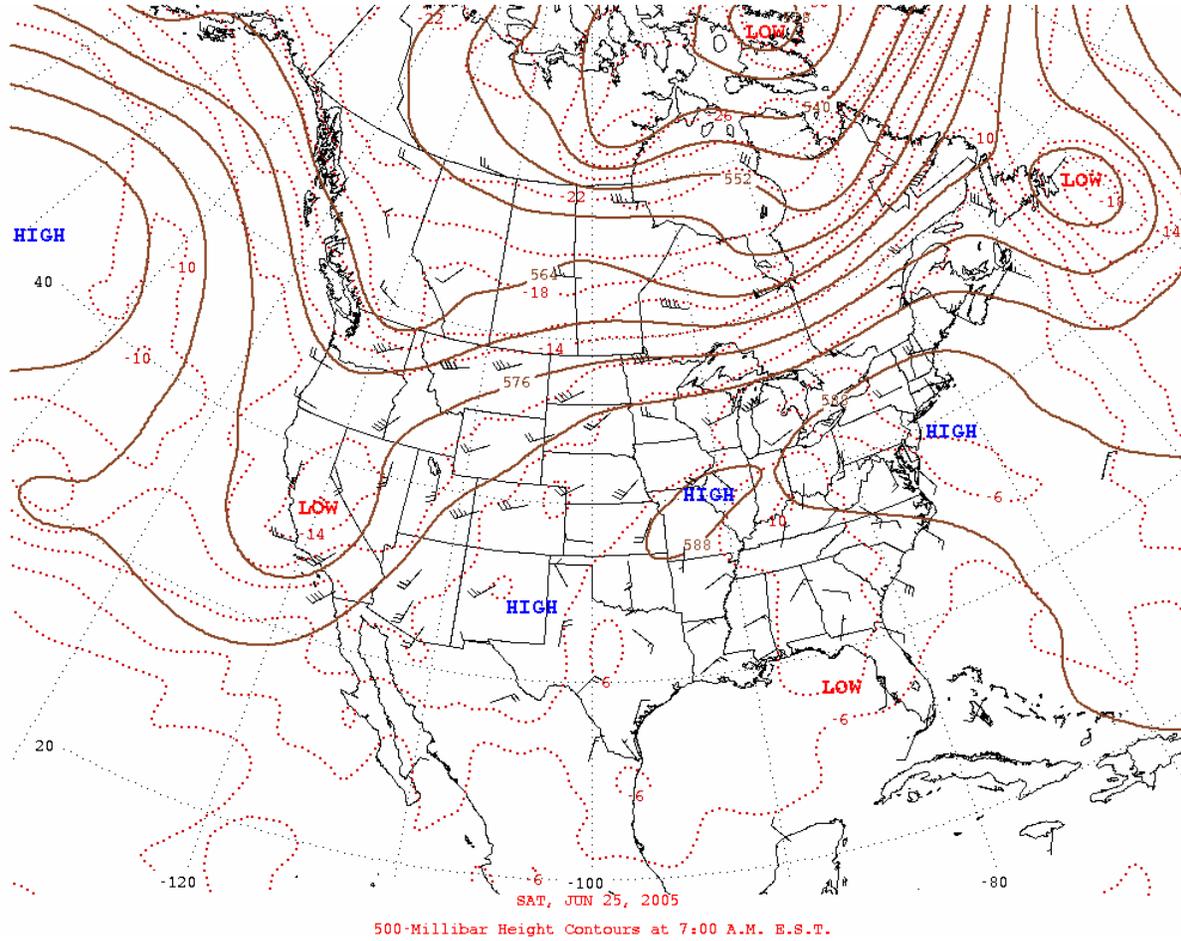


Figure 14. Aloft weather patterns on June 25, 2005 at 6:00 AM CST.

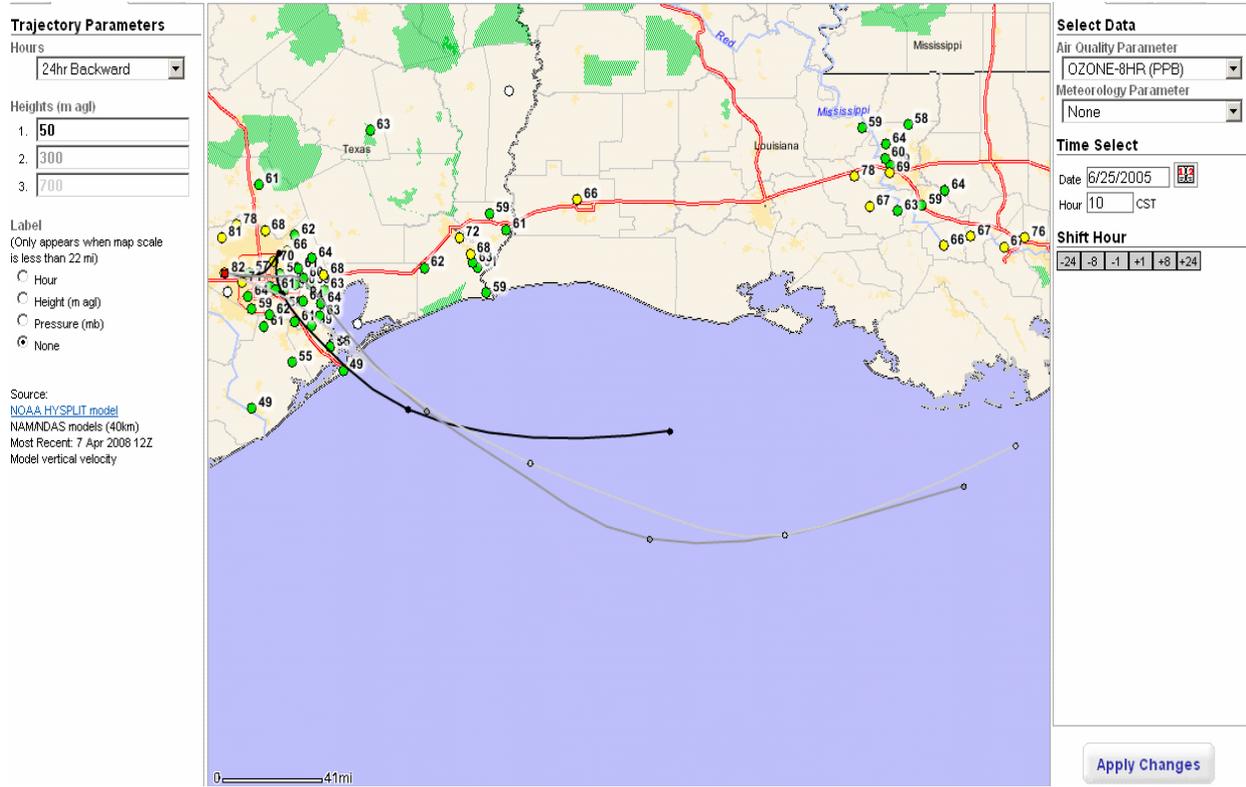


Figure 15. 24-hour backward trajectories for June 25, 2005 ending at 10:00 AM CST calculated using the AIRNow-tech Navigator software.

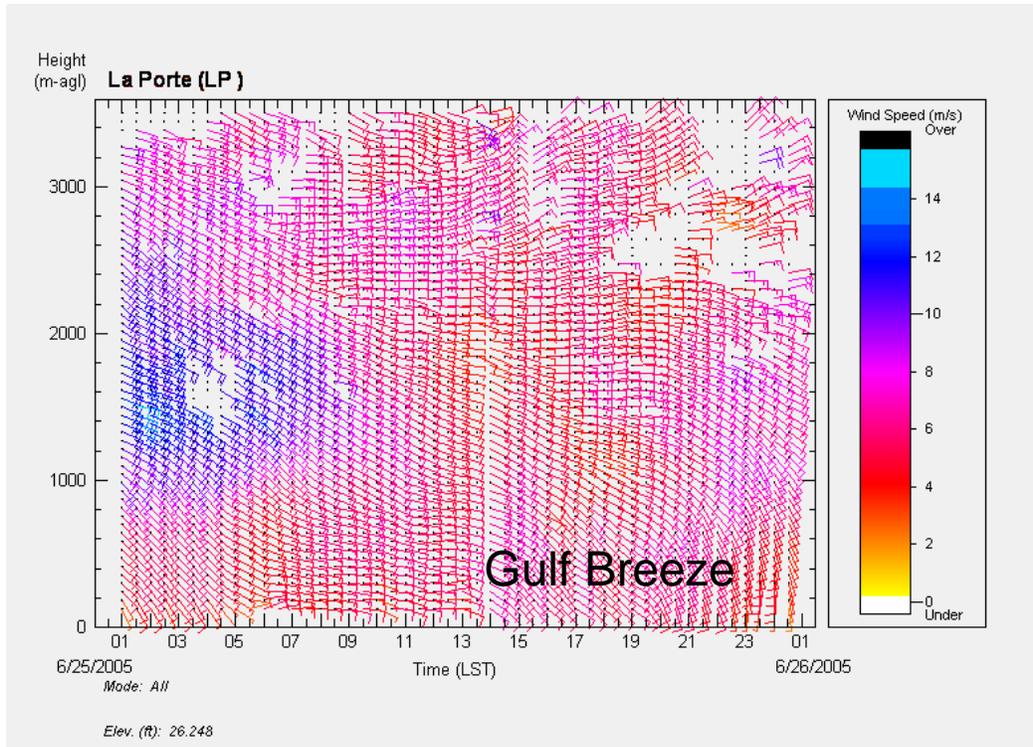
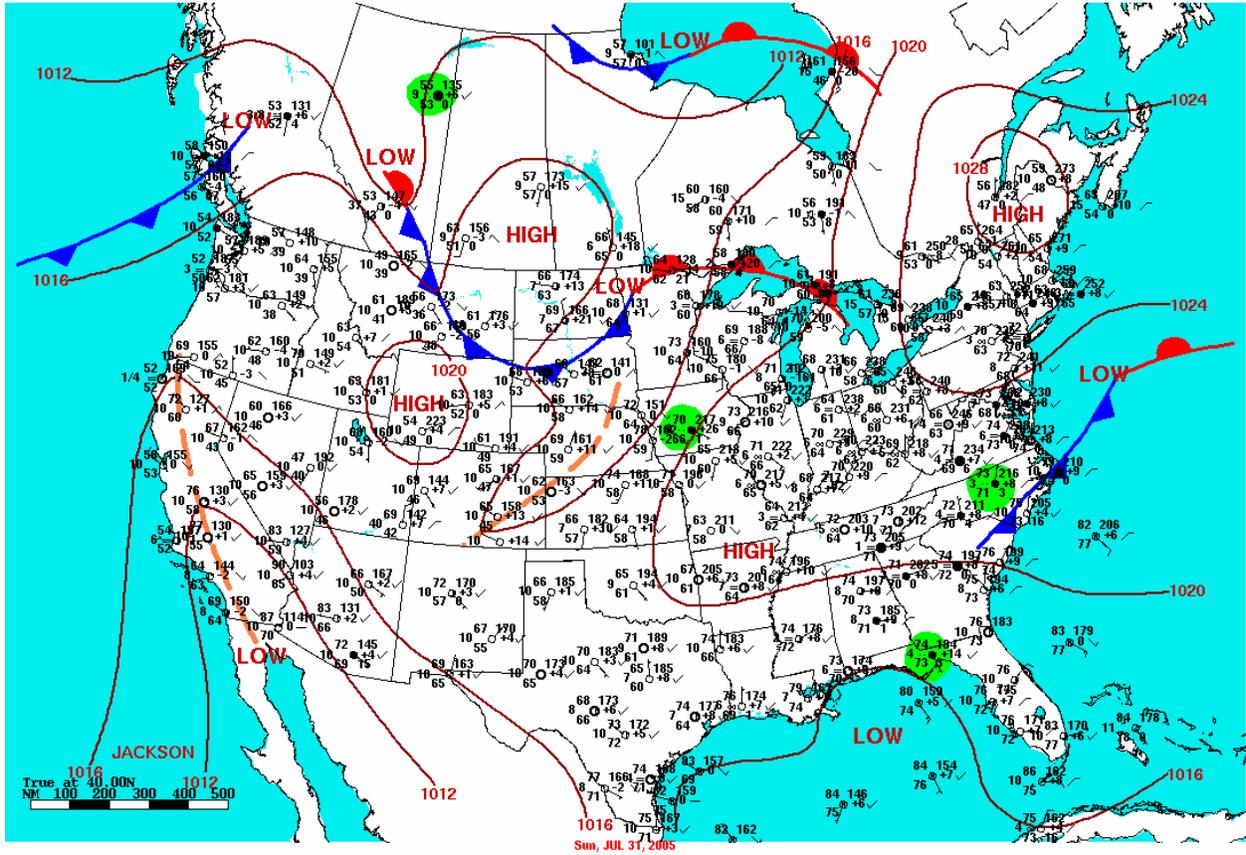


Figure 16. RWP winds at LaPorte for 1:00 AM CST on June 25, 2005 through 12:30 AM CST on June 26, 2005.



Surface Weather Map and Station Weather at 7:00 A.M. E.S.T.

Figure 17. Surface weather patterns on July 31, 2005 at 6:00 AM CST.

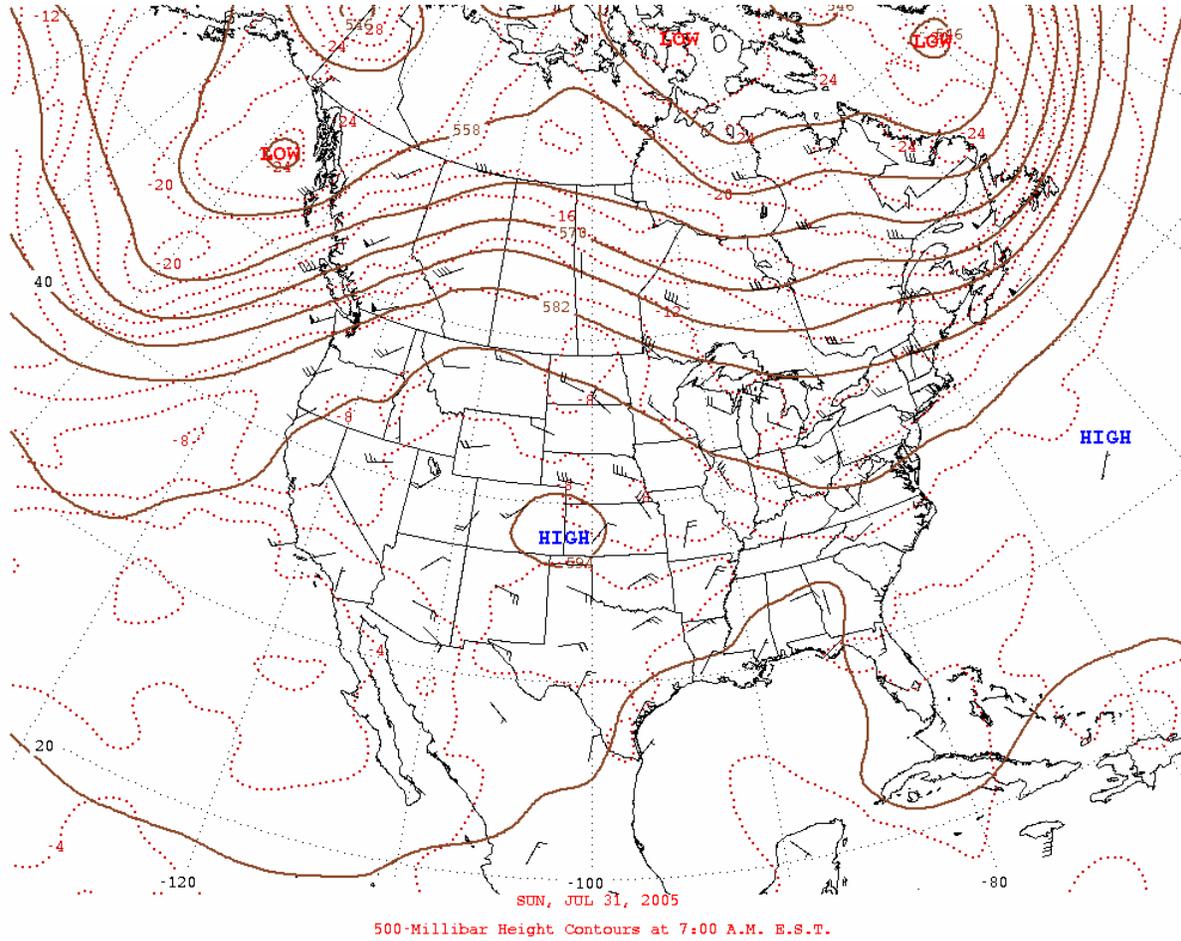


Figure 18. Aloft weather patterns on July 31, 2005 at 6:00 AM CST.

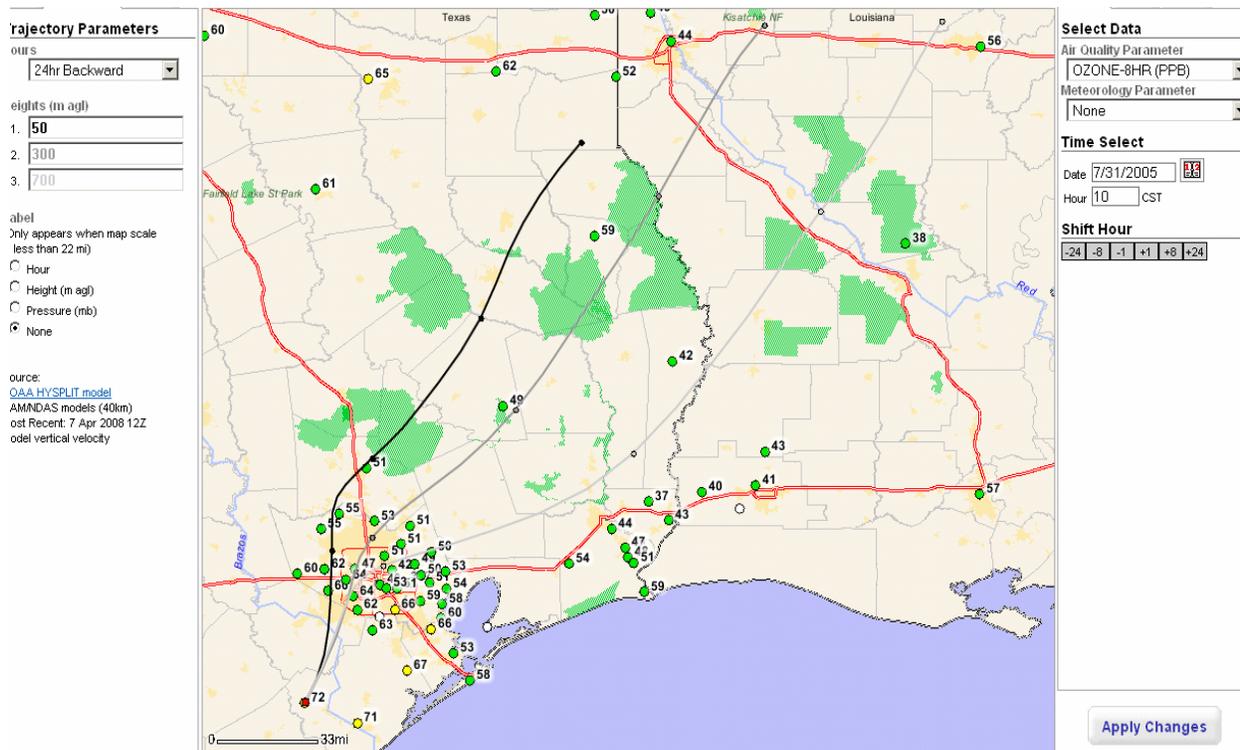


Figure 19. 24-hour backward trajectories for July 31, 2005 ending at 10:00 AM CST calculated using the AIRNow-tech Navigator software.

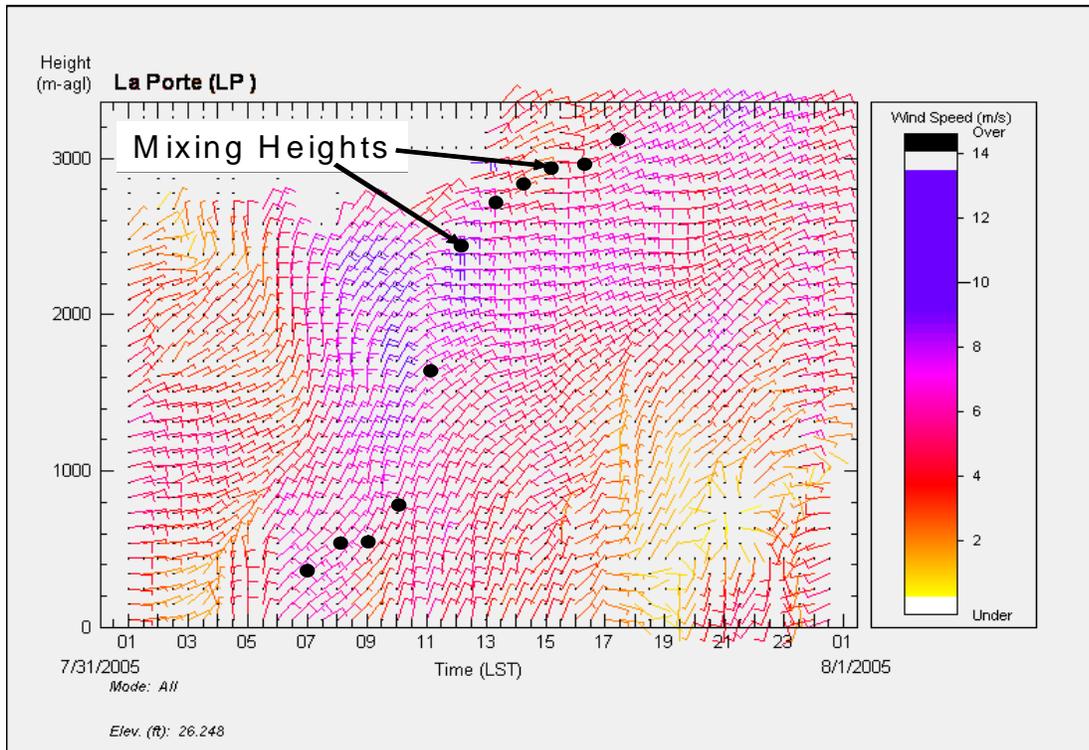
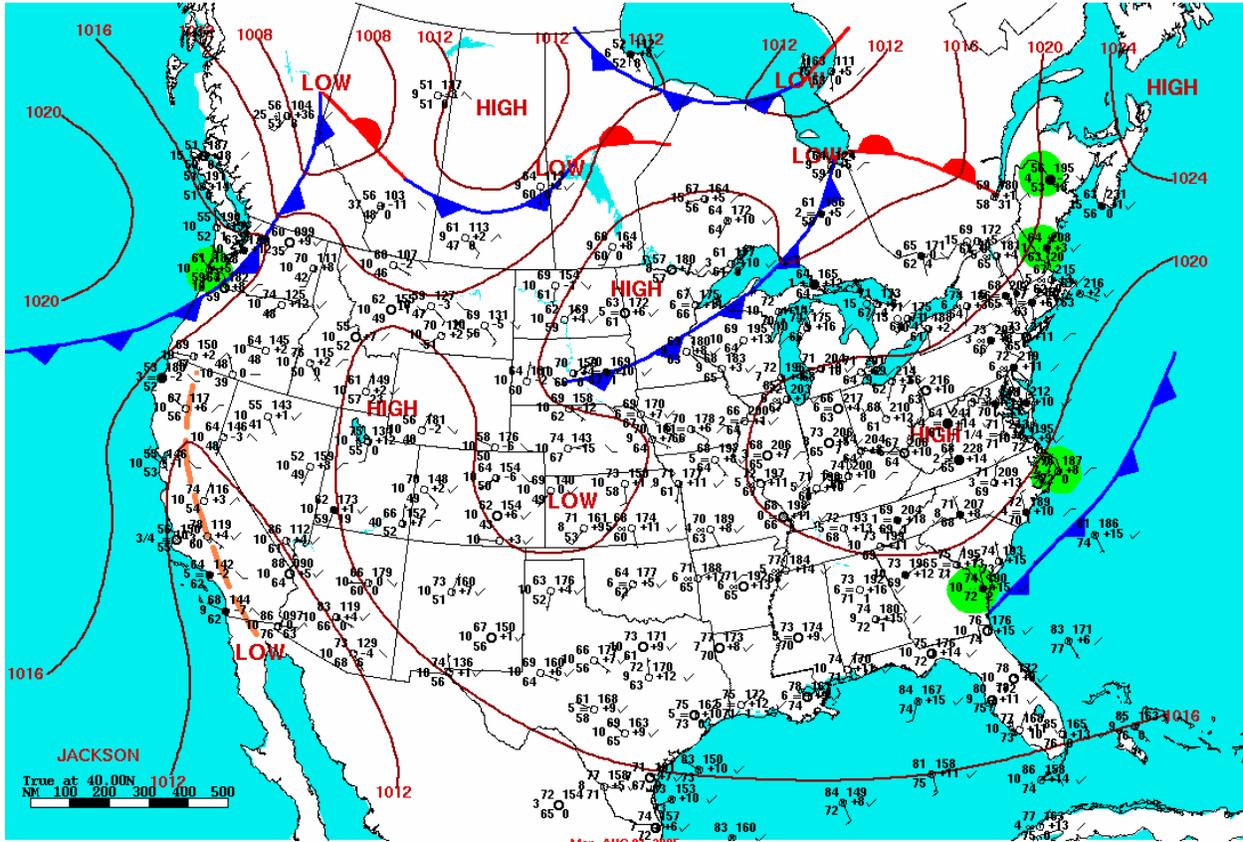


Figure 20. RWP winds at LaPorte for 1:00 AM CST on July 31, 2005 through 12:30 AM CST on August 1, 2005 and mixing heights.



Surface Weather Map and Station Weather at 7:00 A.M. E.S.T.

Figure 21. Surface weather patterns on August 1, 2005 at 6:00 AM CST.

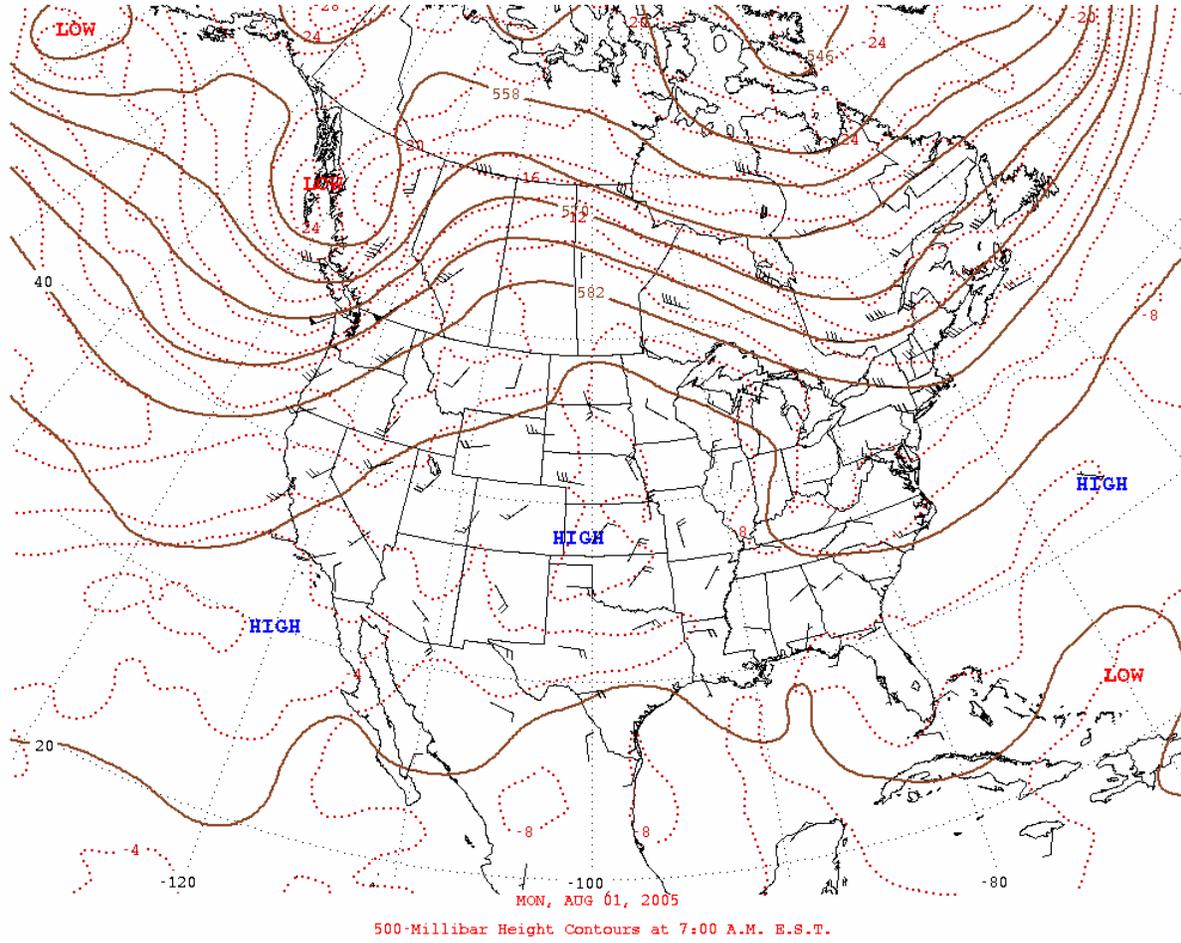


Figure 22. Aloft weather patterns on August 1, 2005 at 6:00 AM CST.

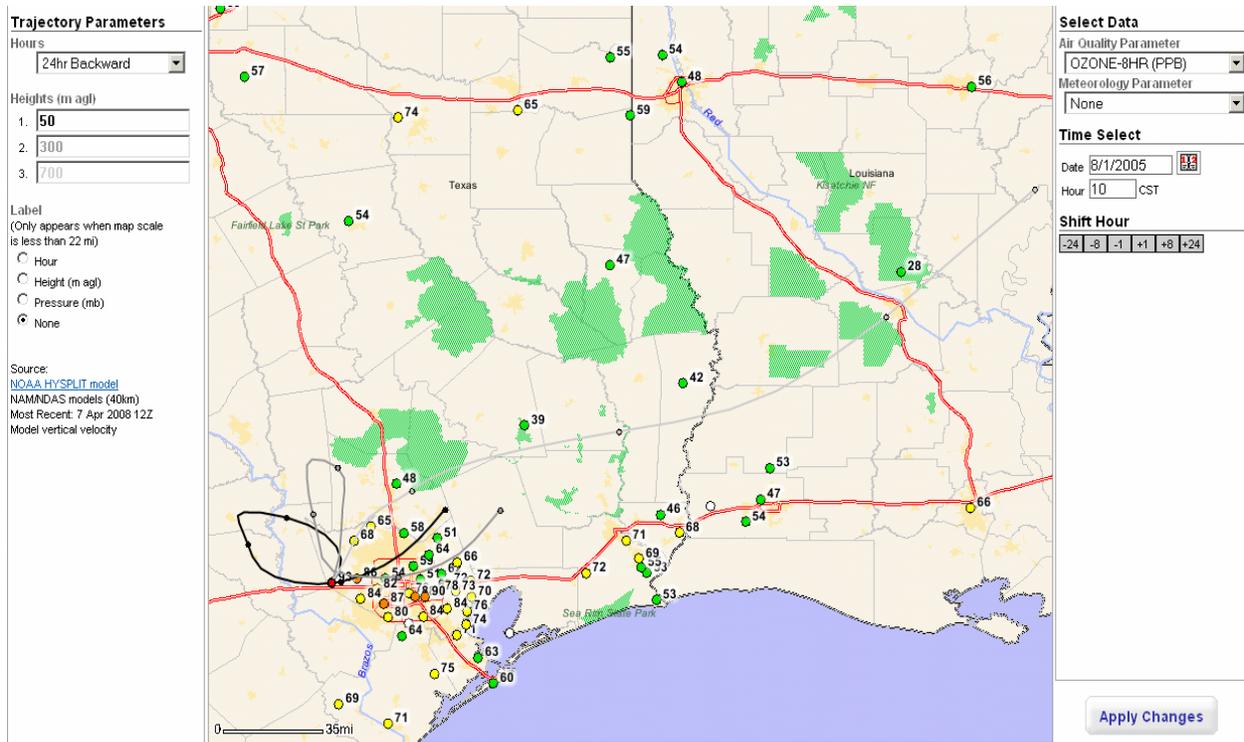


Figure 23. 24-hour backward trajectories for August 1, 2005 ending at 10:00 AM CST calculated using the AIRNow-tech Navigator software.

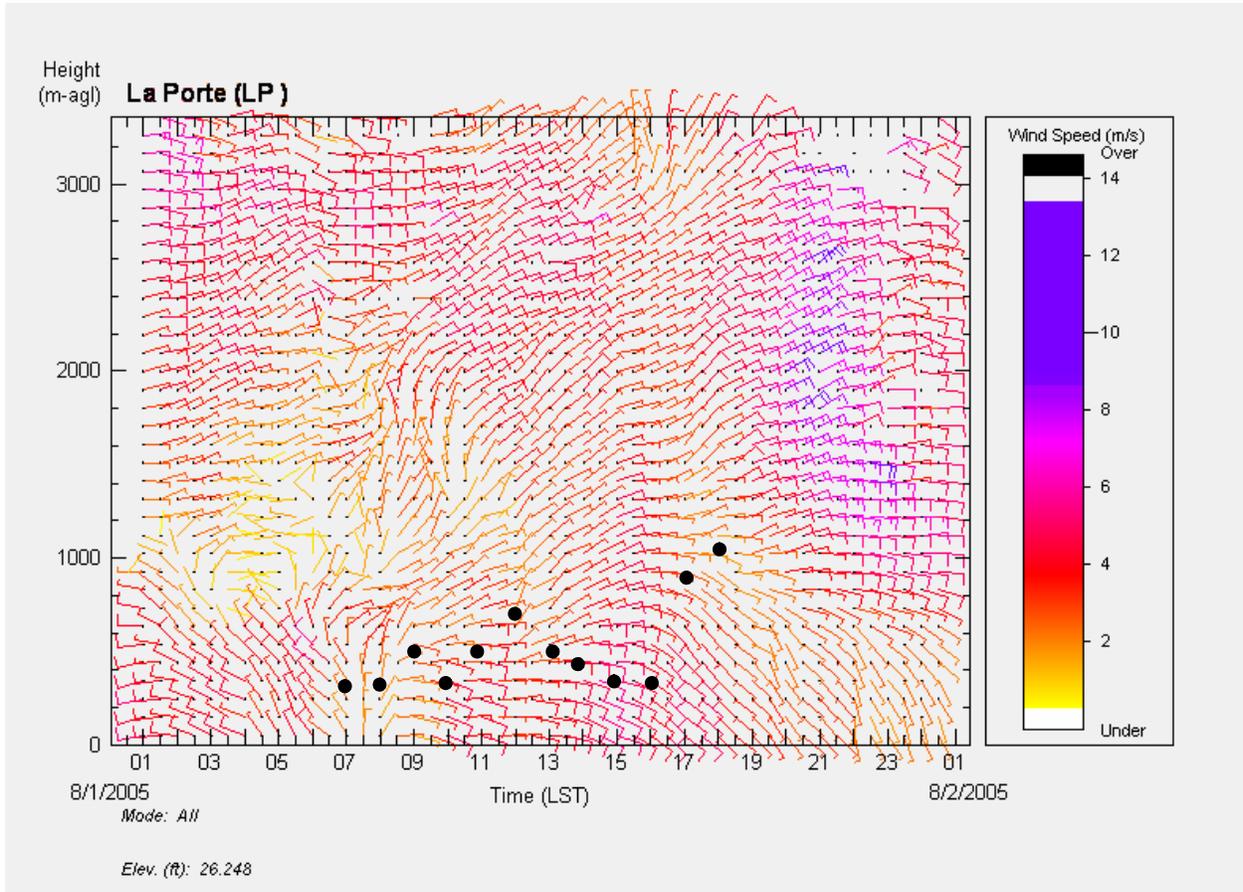
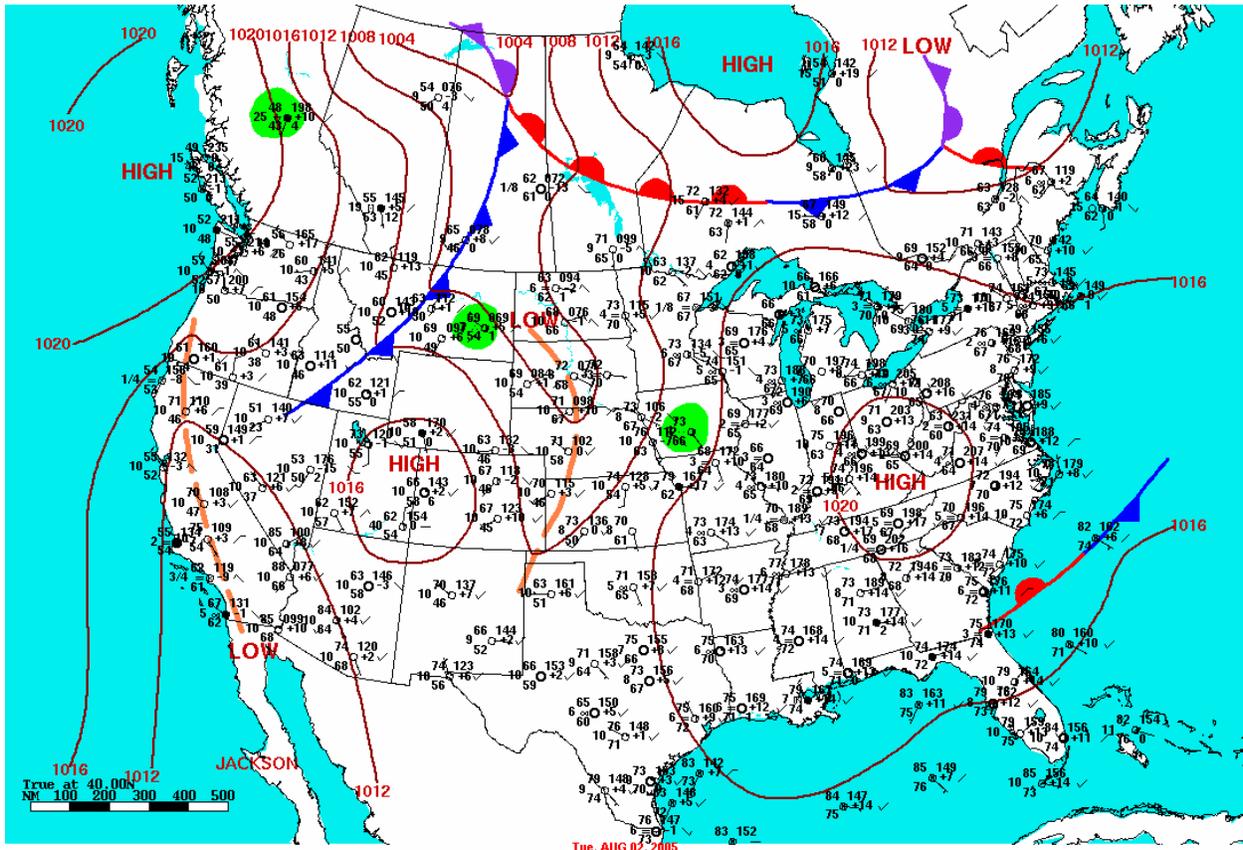


Figure 24. RWP winds at LaPorte for 1:00 AM CST on August 1, 2005 through 12:30 AM CST on August 2, 2005 and mixing heights.



Surface Weather Map and Station Weather at 7:00 A.M. E.S.T.

Figure 25. Surface weather patterns on August 2, 2005 at 6:00 AM CST.

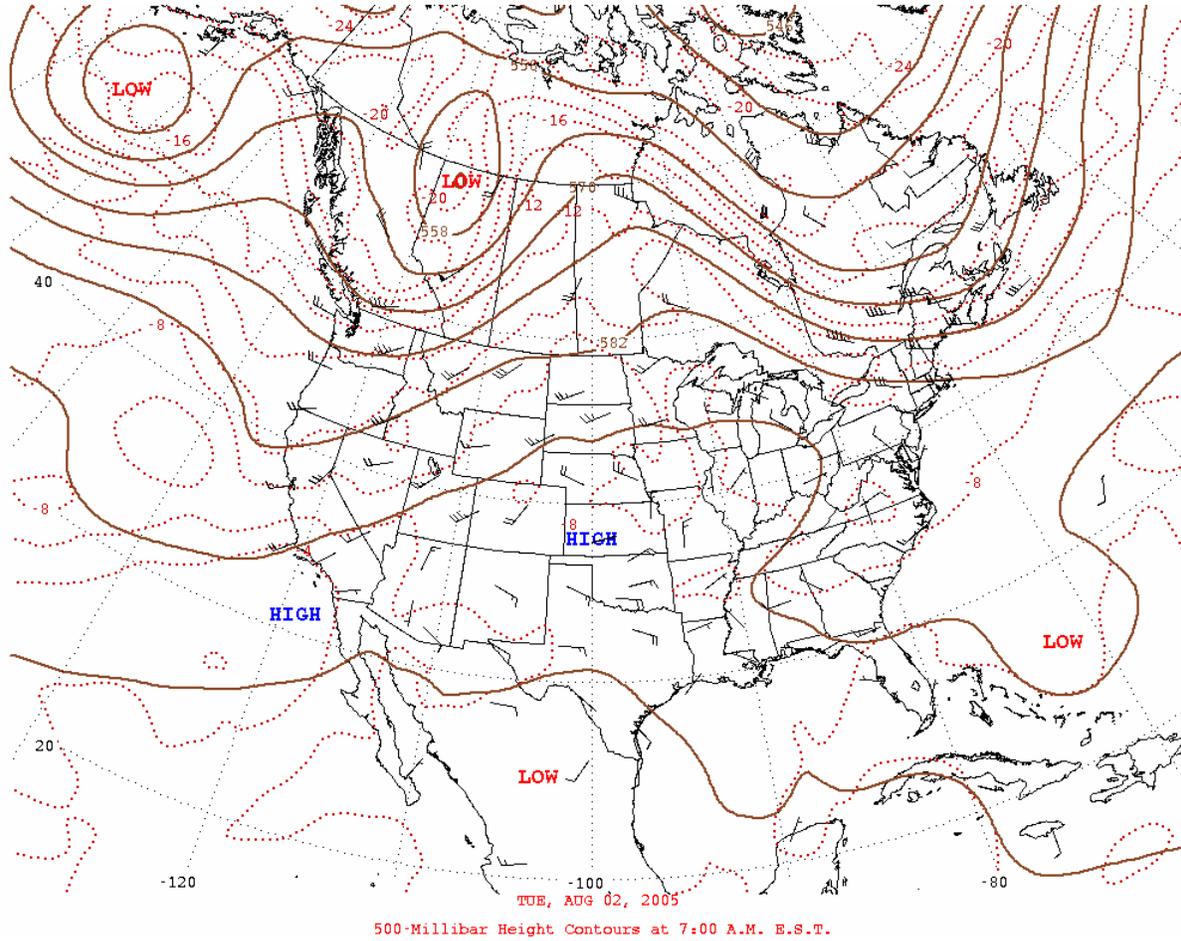


Figure 26. Aloft weather patterns on August 2, 2005 at 6:00 AM CST.

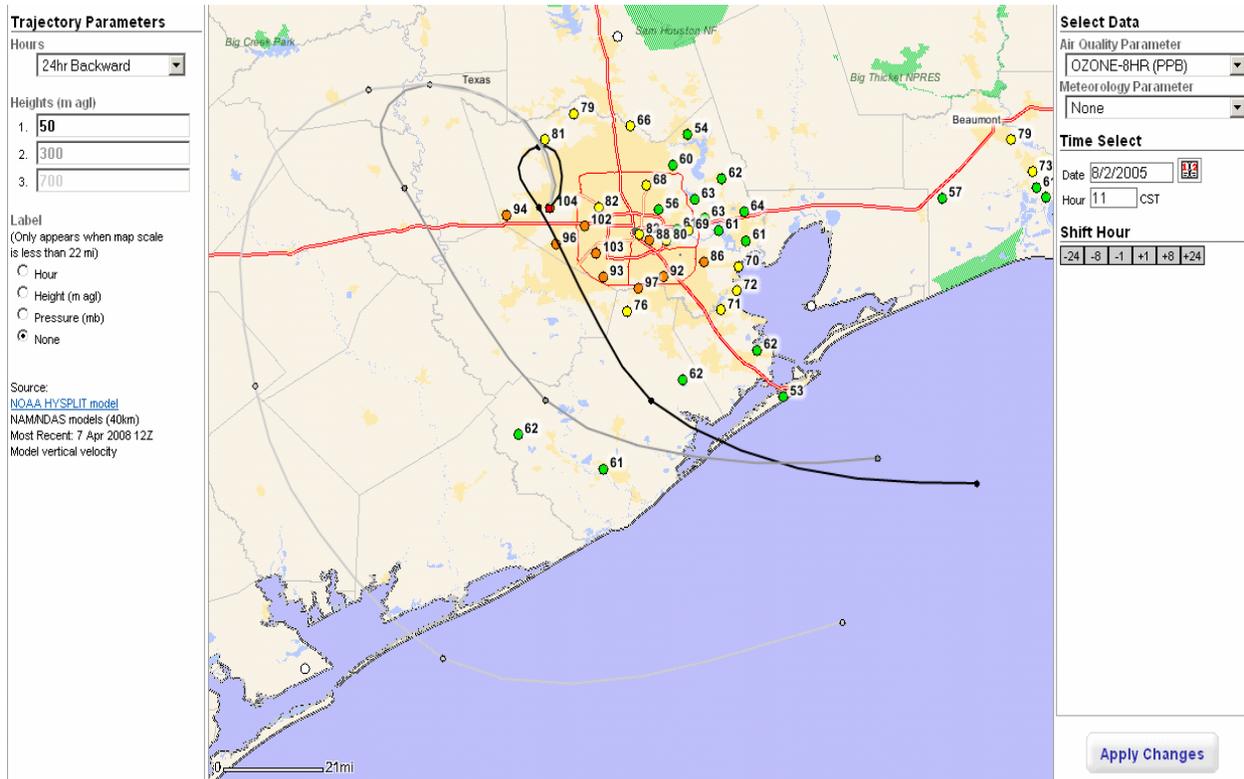


Figure 27. 24-hour backward trajectories for August 2, 2005 ending at 11:00 AM CST calculated using the AIRNow-tech Navigator software.

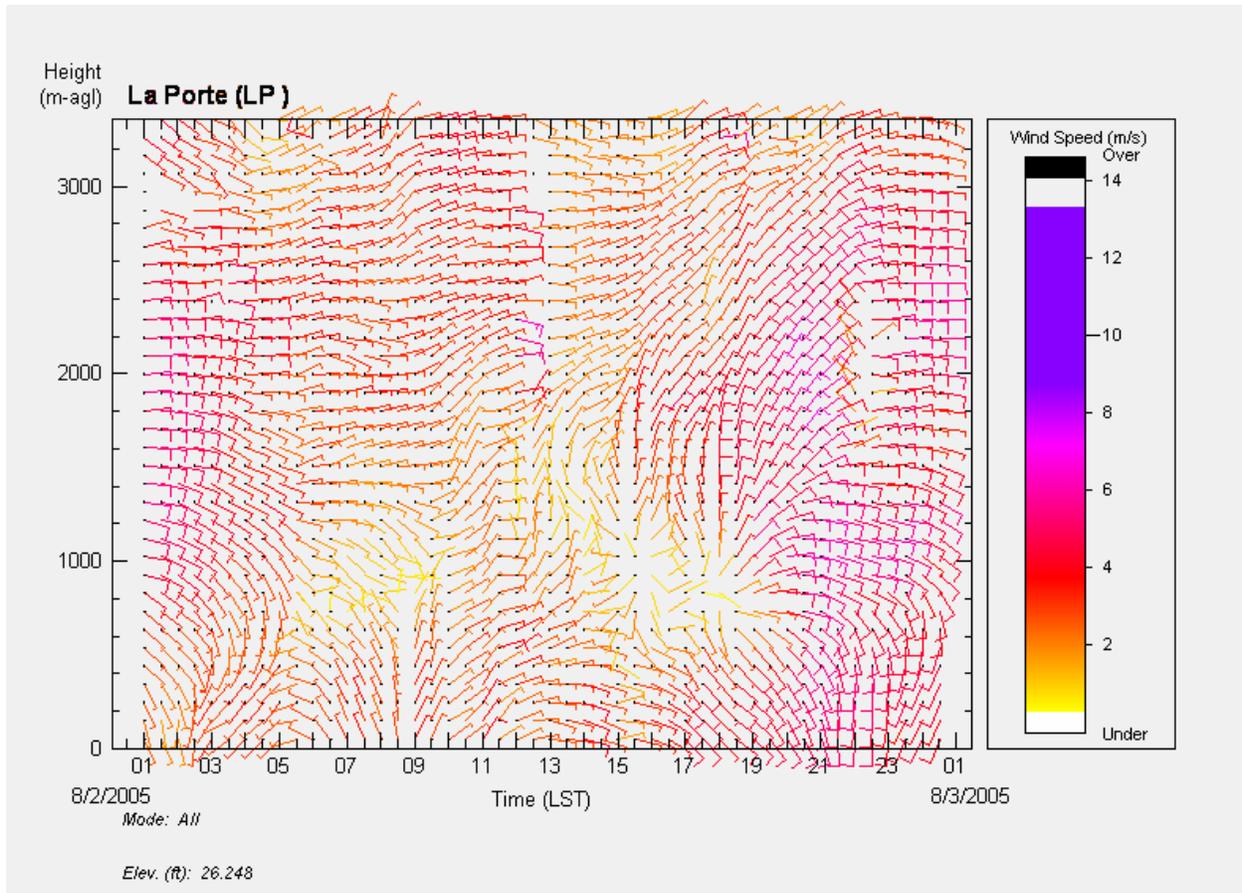
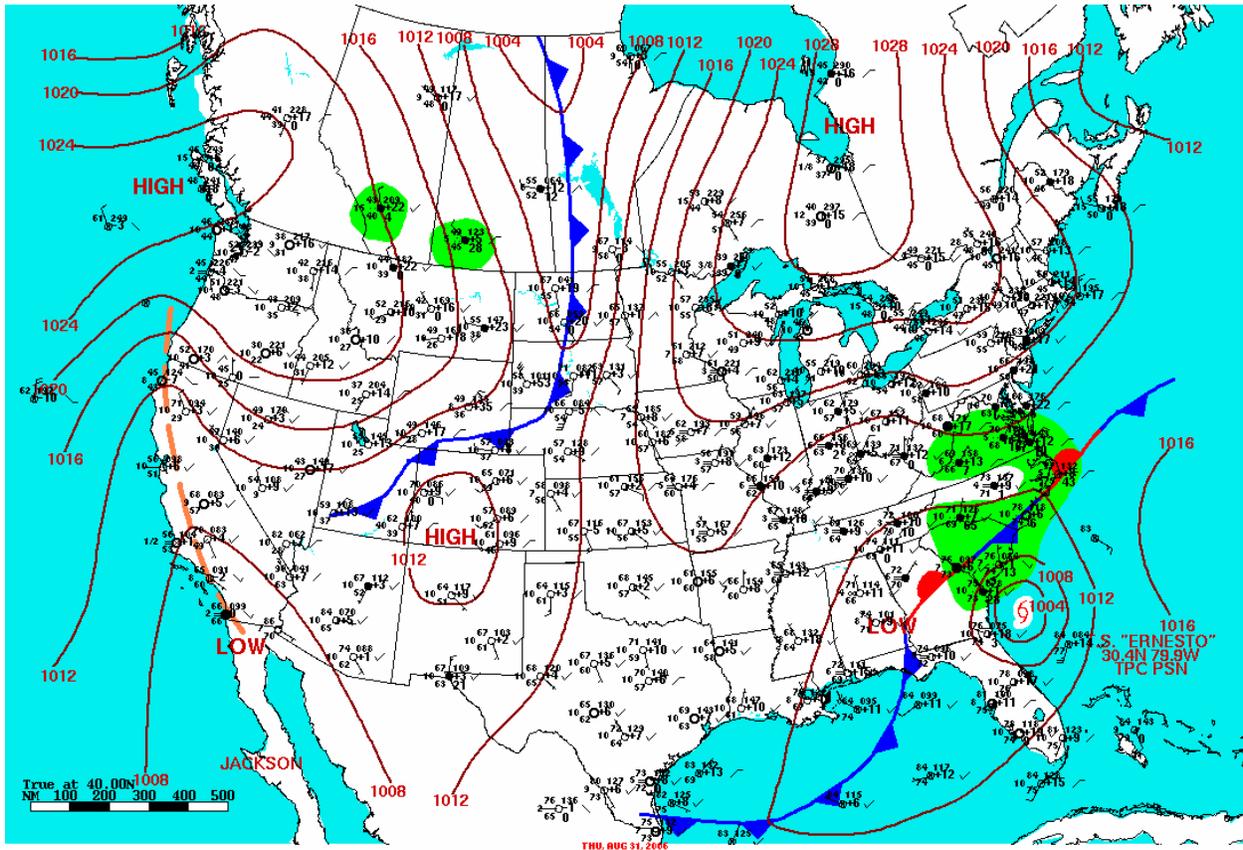


Figure 28. RWP winds at LaPorte for 1:00 AM CST on August 2, 2005 through 12:30 AM CST on August 3, 2005.



Surface Weather Map and Station Weather at 7:00 A.M. E.S.T.

Figure 29. Surface weather patterns on August 31, 2006 at 6:00 AM CST.

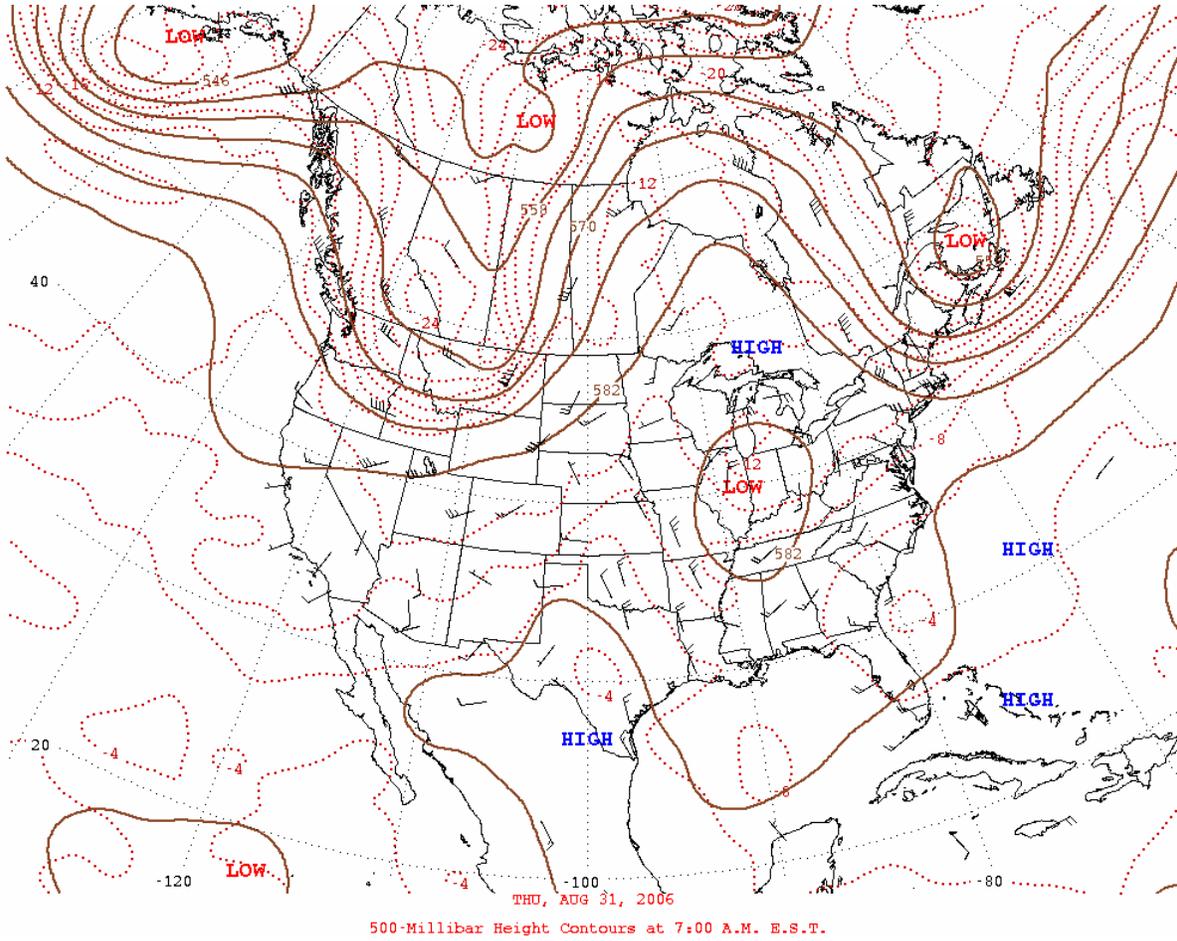


Figure 30. Aloft weather patterns on August 31, 2006 at 6:00 AM CST.

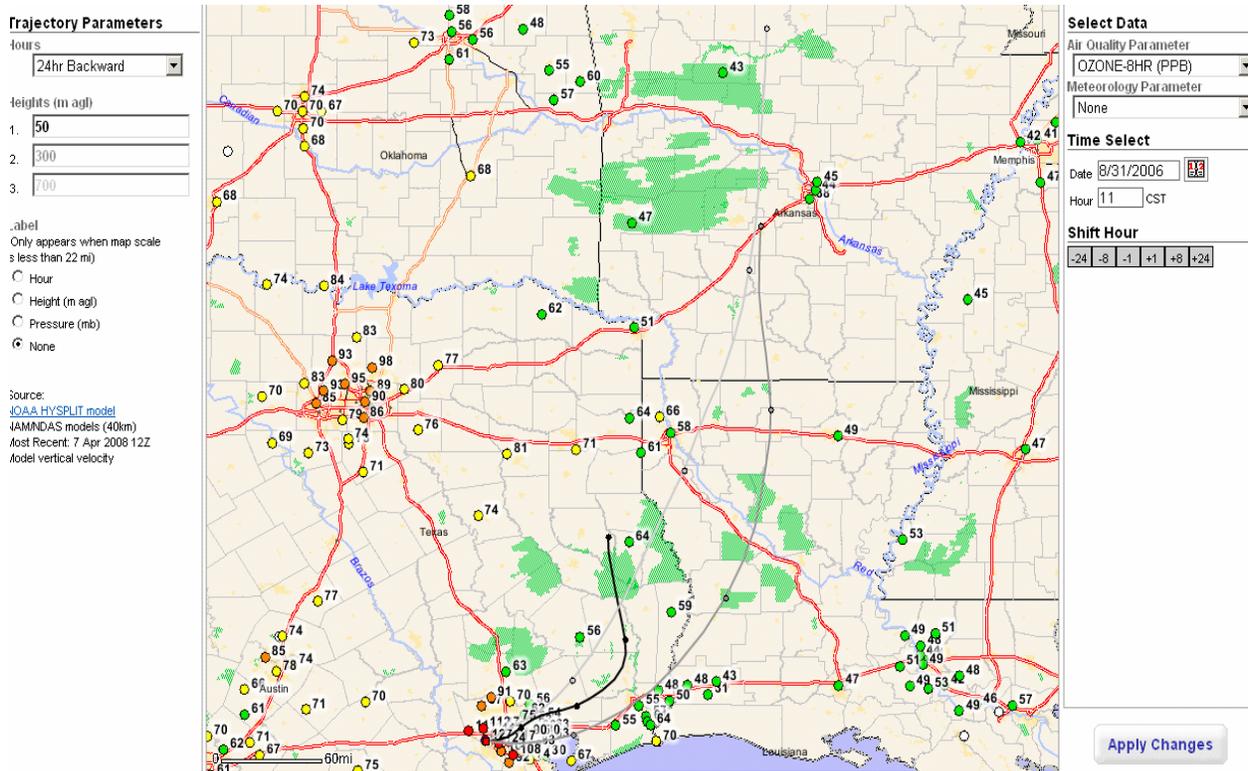


Figure 31. 24-hour backward trajectories for August 31, 2006 ending at 11:00 AM CST calculated using the AIRNow-tech Navigator software.

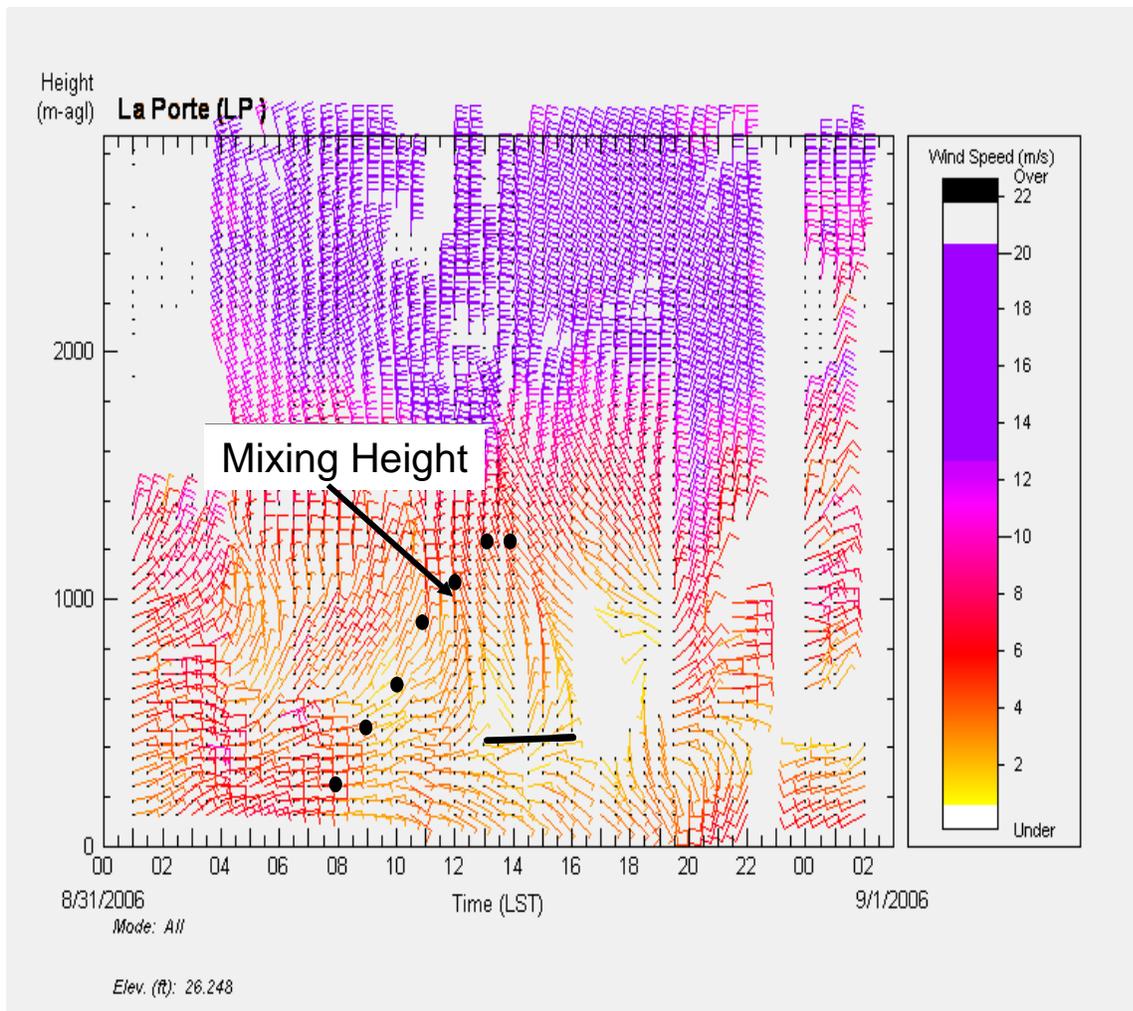
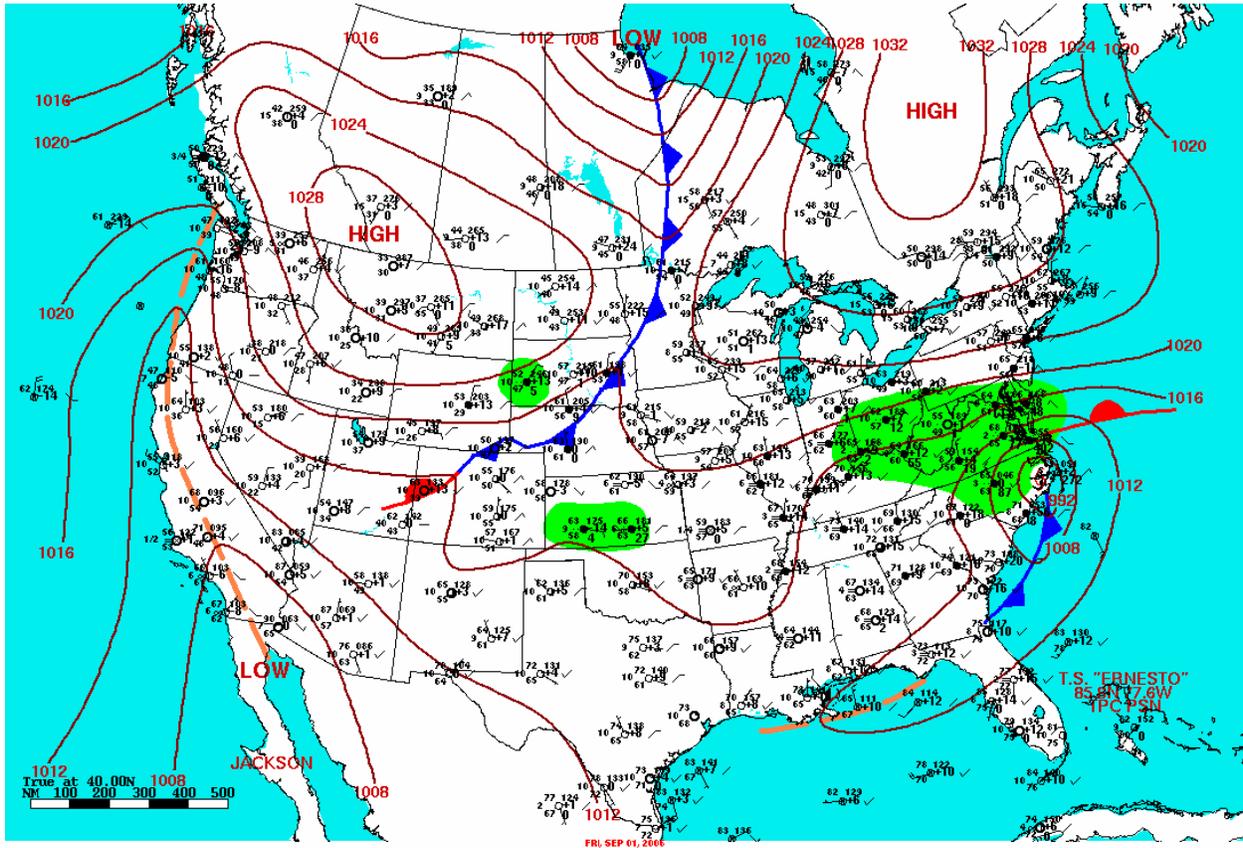


Figure 32. RWP winds at LaPorte for 1:00 AM CST on August 31, 2006 through 2:00 AM CST on September 1, 2006 and mixing heights.



Surface Weather Map and Station Weather at 7:00 A.M. E.S.T.

Figure 33. Surface weather patterns on September 1, 2006 at 6:00 AM CST.

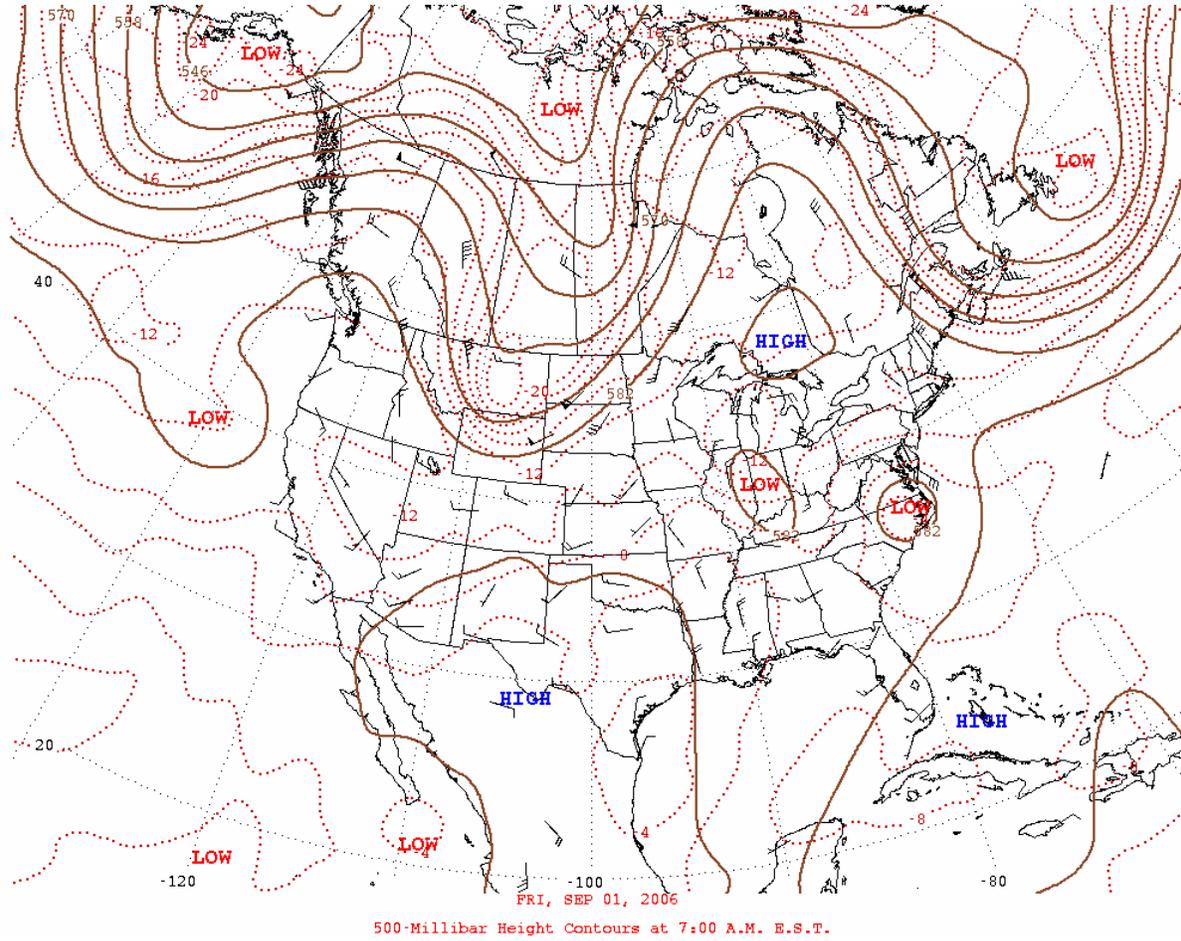


Figure 34. Aloft weather patterns on September 1, 2006 at 6:00 AM CST.

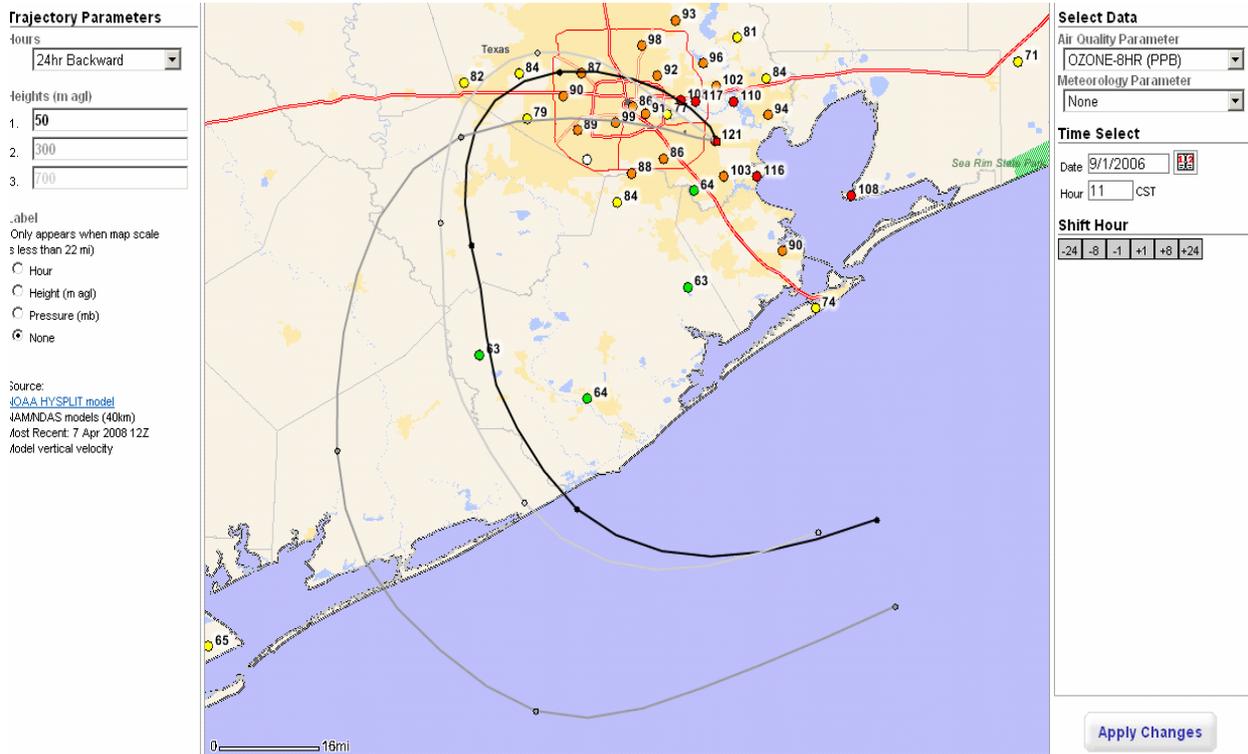


Figure 35. 24-hour backward trajectories for September 1, 2006 ending at 11:00 AM CST calculated using the AIRNow-tech Navigator software.

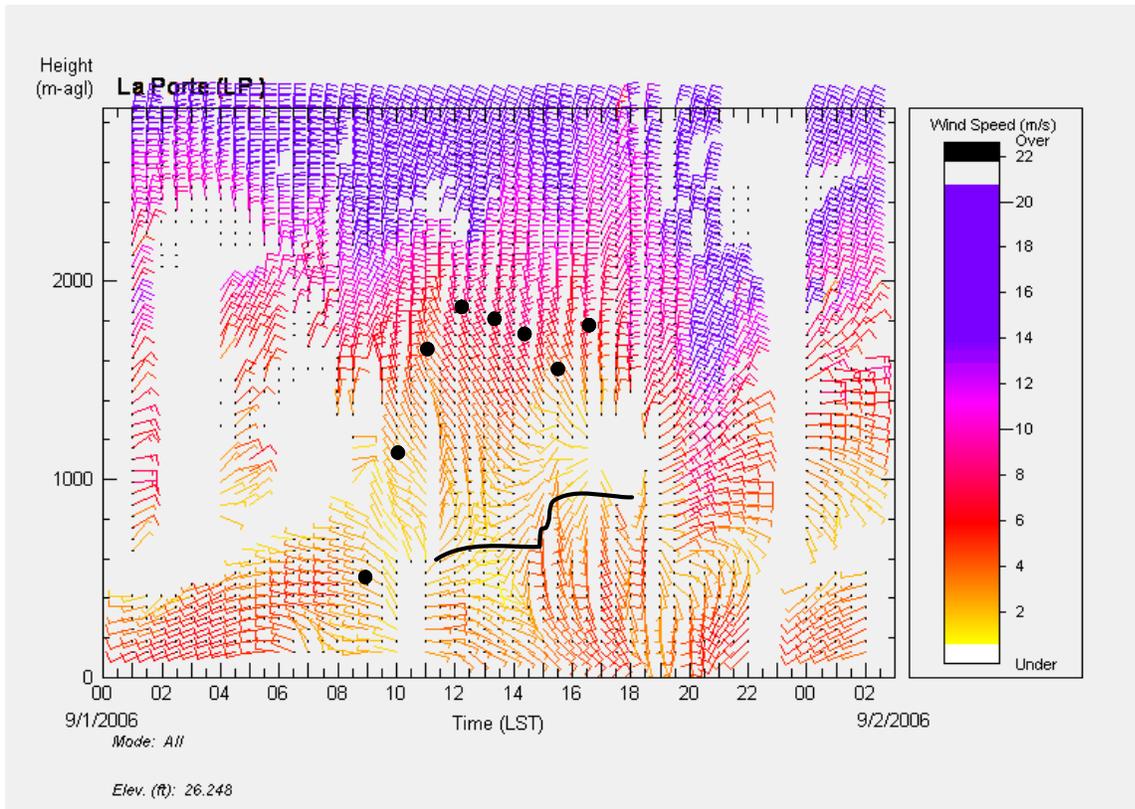
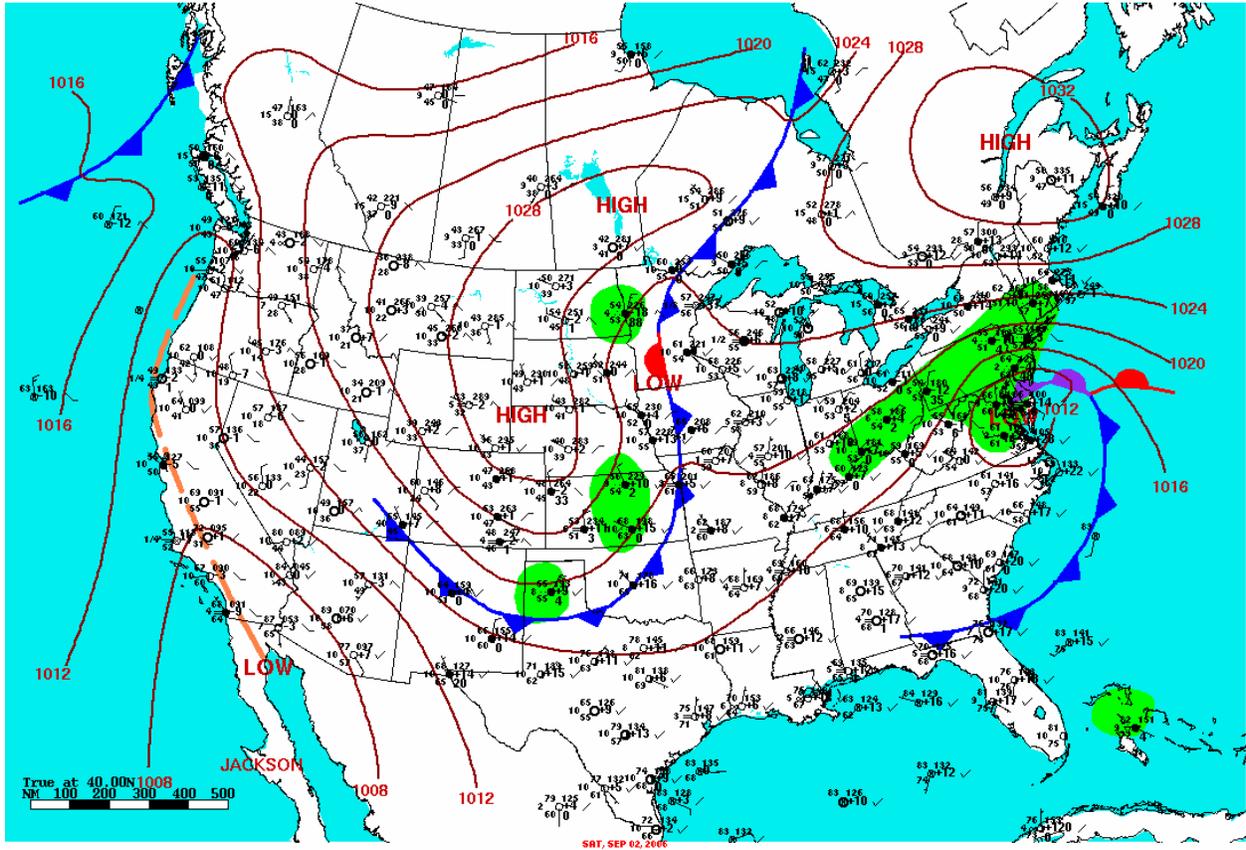


Figure 36. RWP winds at LaPorte for 1:00 AM CST on September 1, 2006 through 2:00 AM CST on September 2, 2006 and mixing heights.



Surface Weather Map and Station Weather at 7:00 A.M. E.S.T.

Figure 37. Surface weather patterns on September 2, 2006 at 6:00 AM CST.

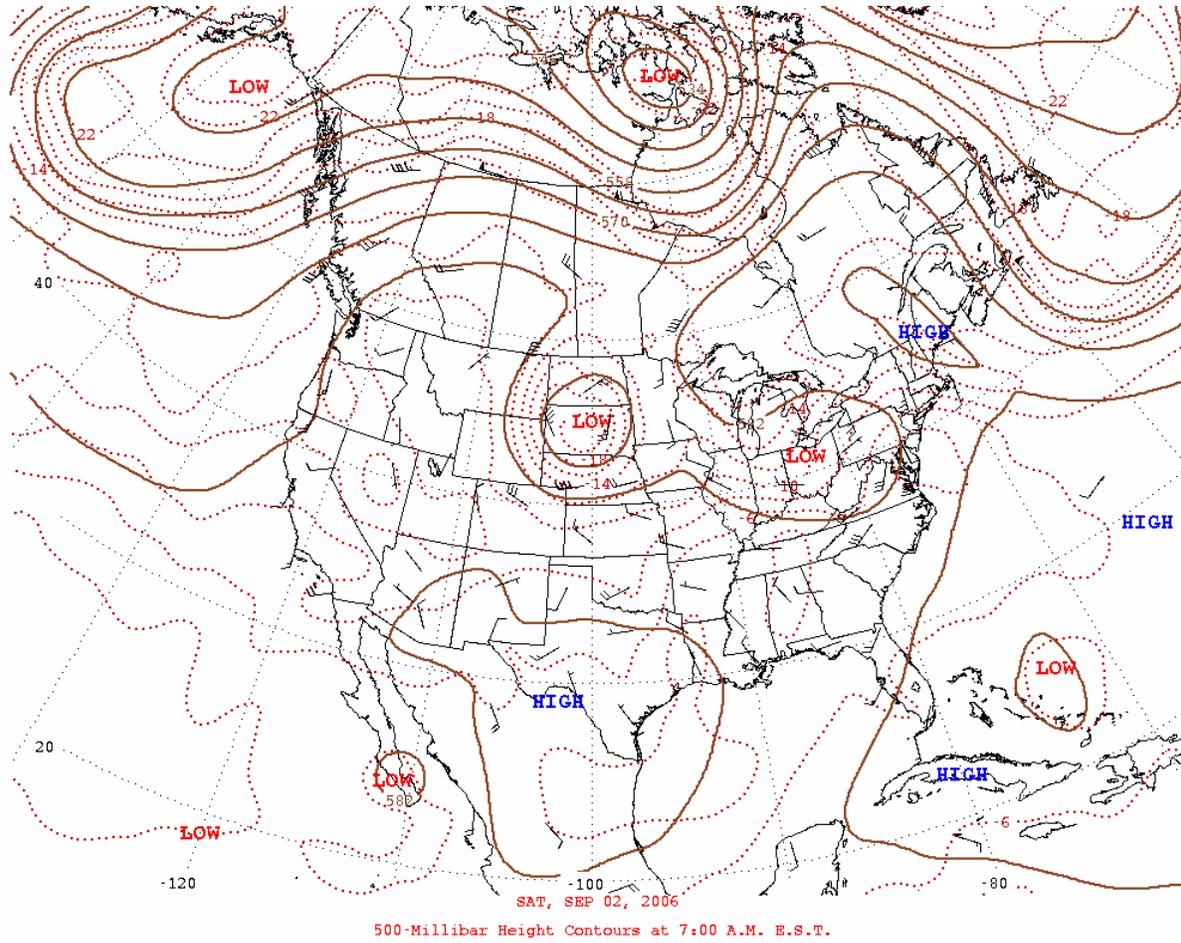


Figure 38. Aloft weather patterns on September 2, 2006 at 6:00 AM CST.

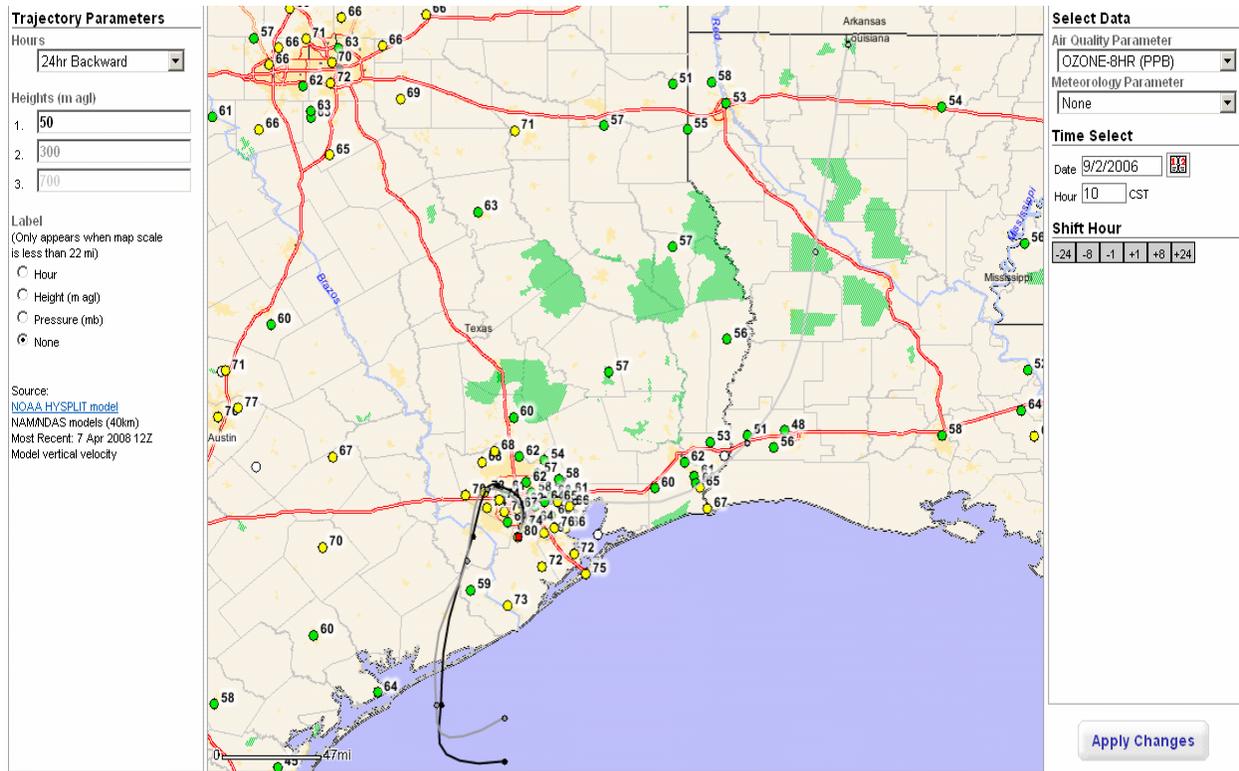


Figure 39. 24-hour backward trajectories for September 2, 2006 ending at 10:00 AM CST calculated using the AIRNow-tech Navigator software.

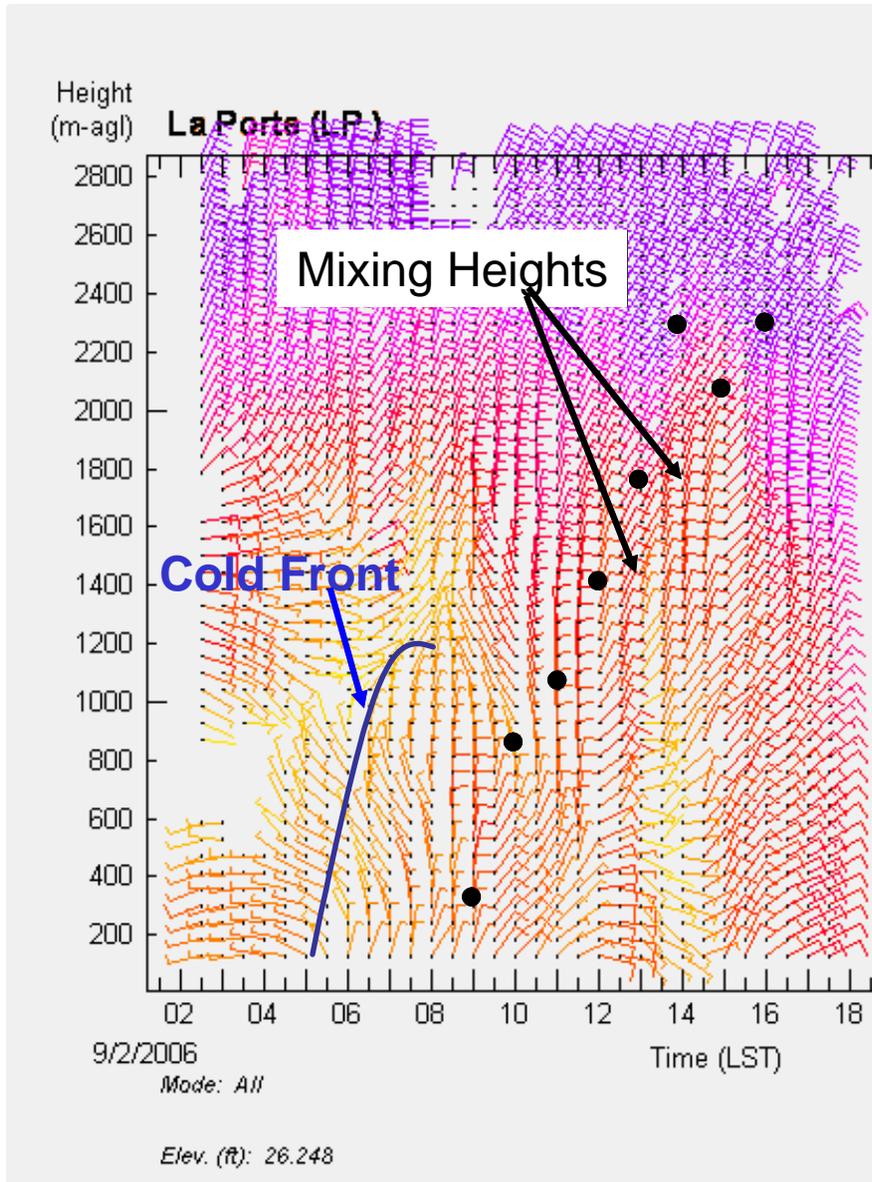


Figure 40. RWP winds at LaPorte for 2:30 AM CST on September 2, 2006 through 5:30 PM CST on September 2, 2006 and mixing heights.