

APPENDIX A

WEATHER MAPS AND GRAPHS

**EXCEPTIONAL EVENTS DEMONSTRATION FOR 2023 PM_{2.5}
EXCEEDANCES AT HARRISON COUNTY, TRAVIS COUNTY, AND
KLEBERG COUNTY**

February 7, 2025

**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
P.O. BOX 13087
AUSTIN, TEXAS 78711-3087**

APPENDIX A: WEATHER MAPS AND GRAPHS

GROUP 1 - JANUARY 1, 2023

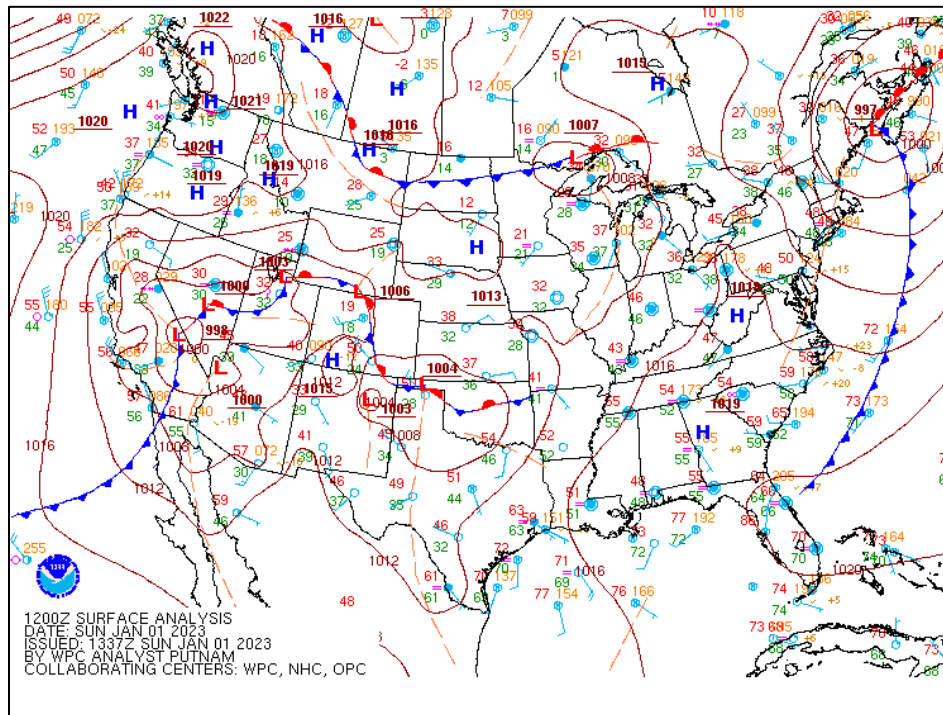


Figure A-1: Surface Analysis Map on January 1, 2023, at 6:00 a.m. local time

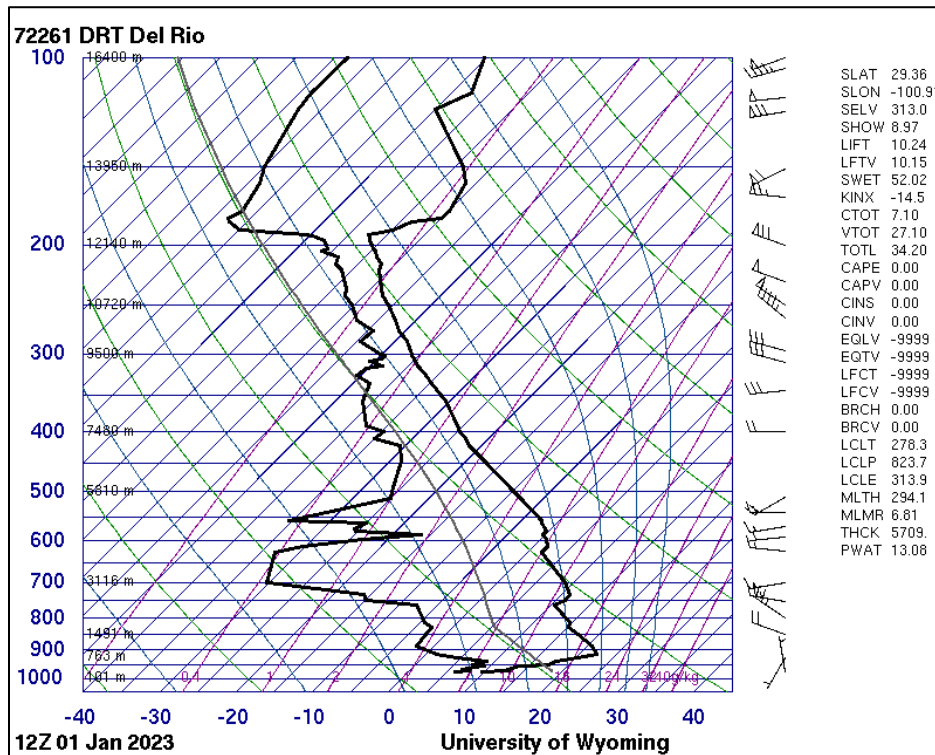


Figure A-2: Upper Air Sounding from Del Rio, TX on January 1, 2023, at 6:00 a.m. local time

GROUP 2 - JANUARY 3, 2023

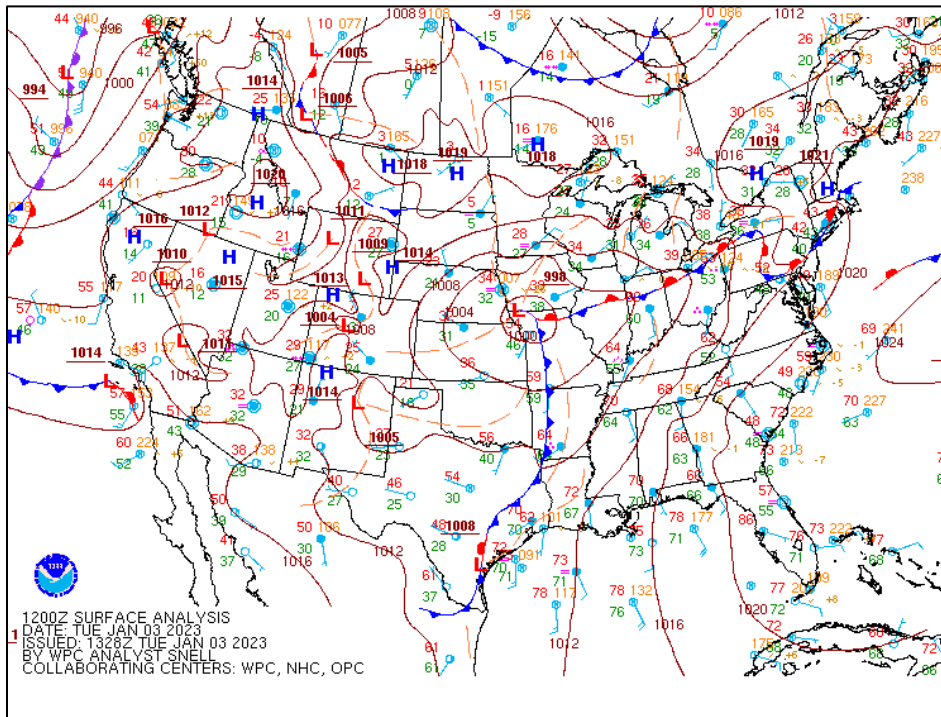


Figure A-3: Surface Analysis Map on January 3, 2023, at 6:00 a.m. local time

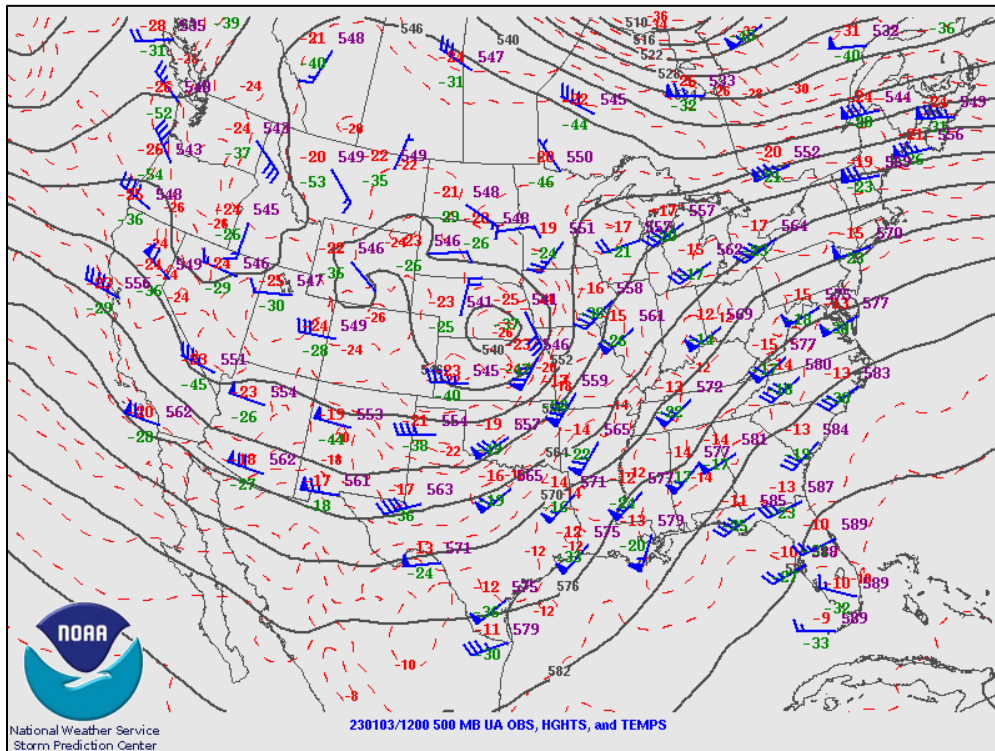


Figure A-4: 500 mb Height Chart on January 3, 2023, at 6:00 a.m. local time

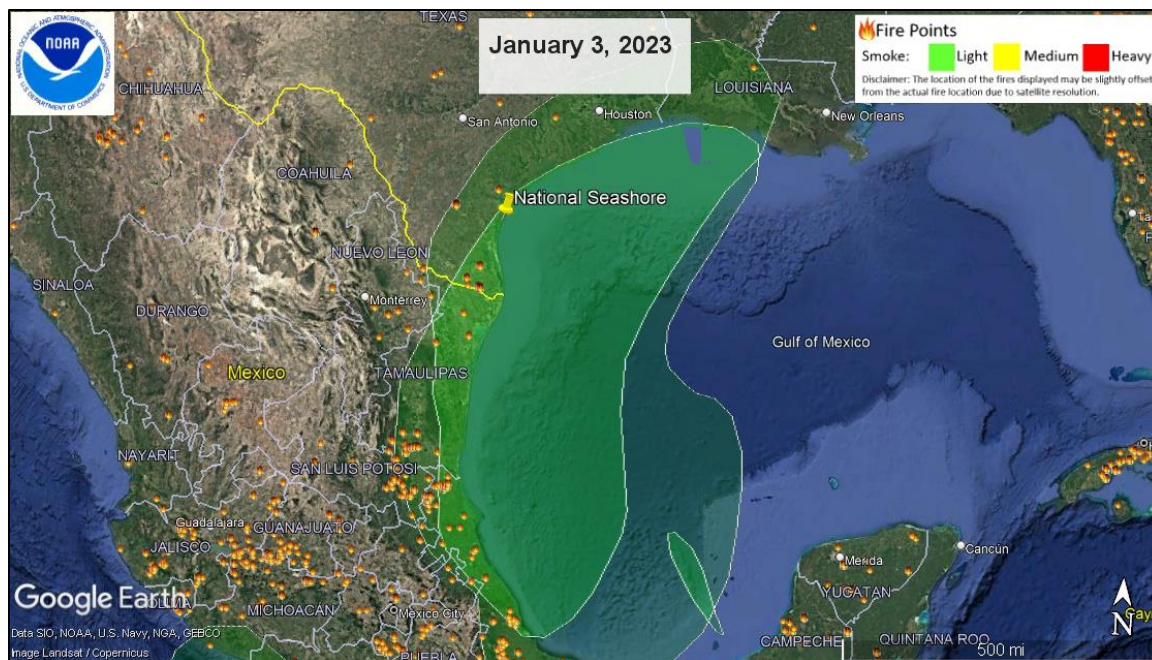


Figure A-5: NOAA HMS Smoke Layer Map for January 3, 2023

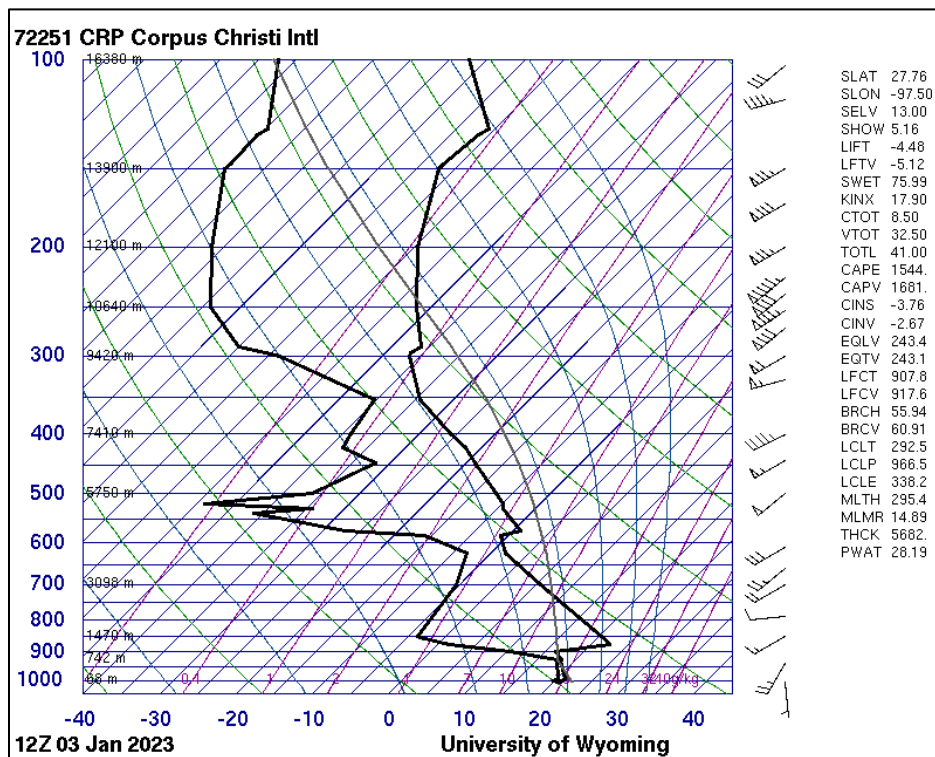


Figure A-6: Upper Air Sounding from Corpus Christi, TX on January 3, 2023, at 6:00 a.m. local time

GROUP 3 - JANUARY 16 AND JANUARY 18, 2023

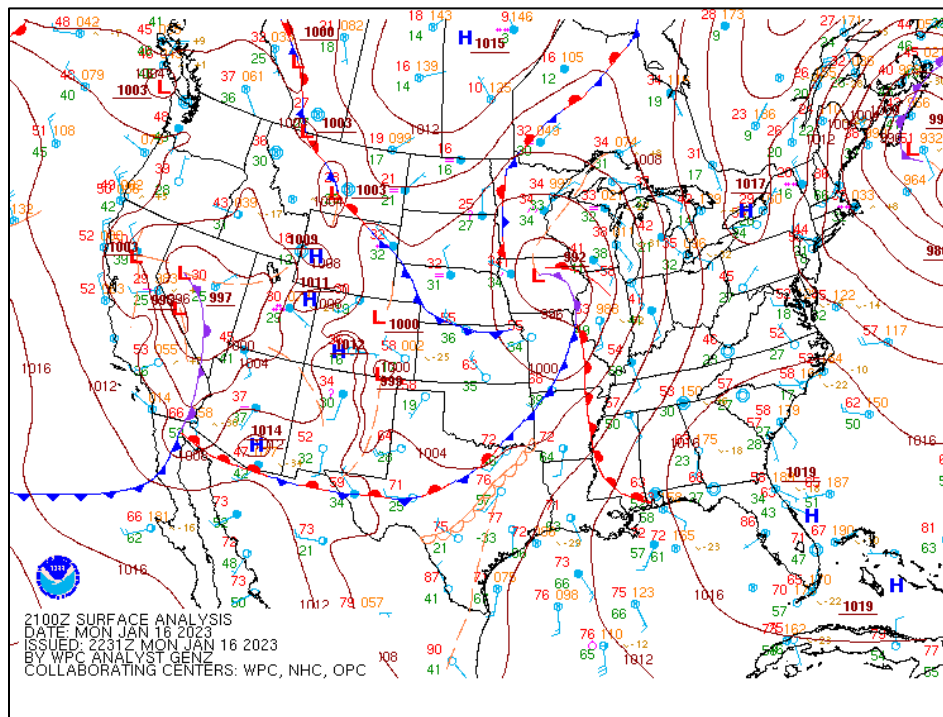


Figure A-7: Surface Analysis Map on January 16, 2023, at 3:00 p.m. local time

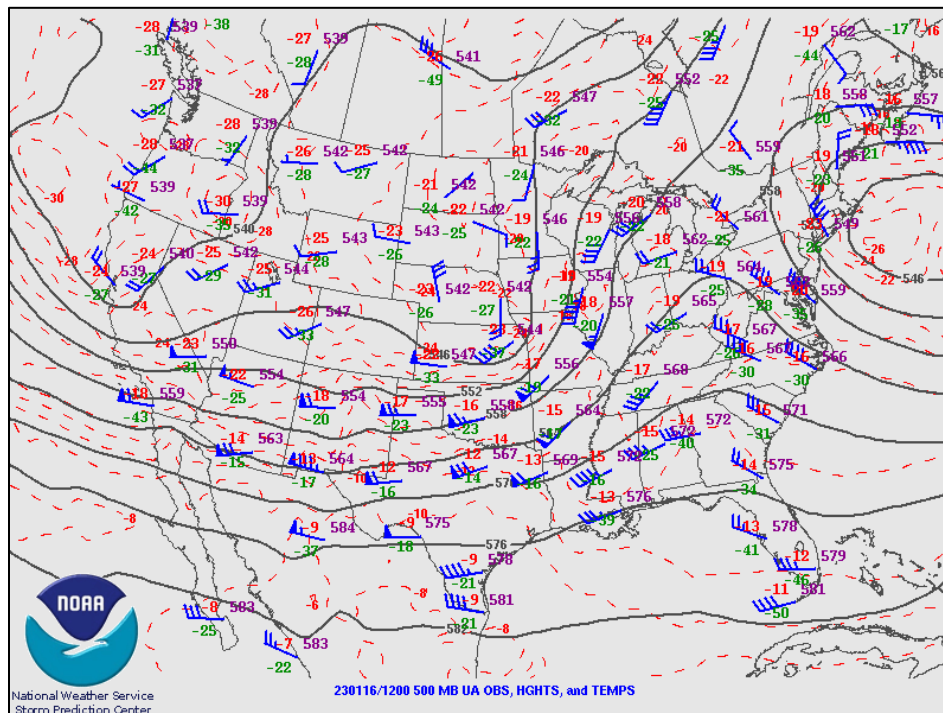


Figure A-8: 500 mb Height Map on January 16, 2023, at 6:00 a.m. local time

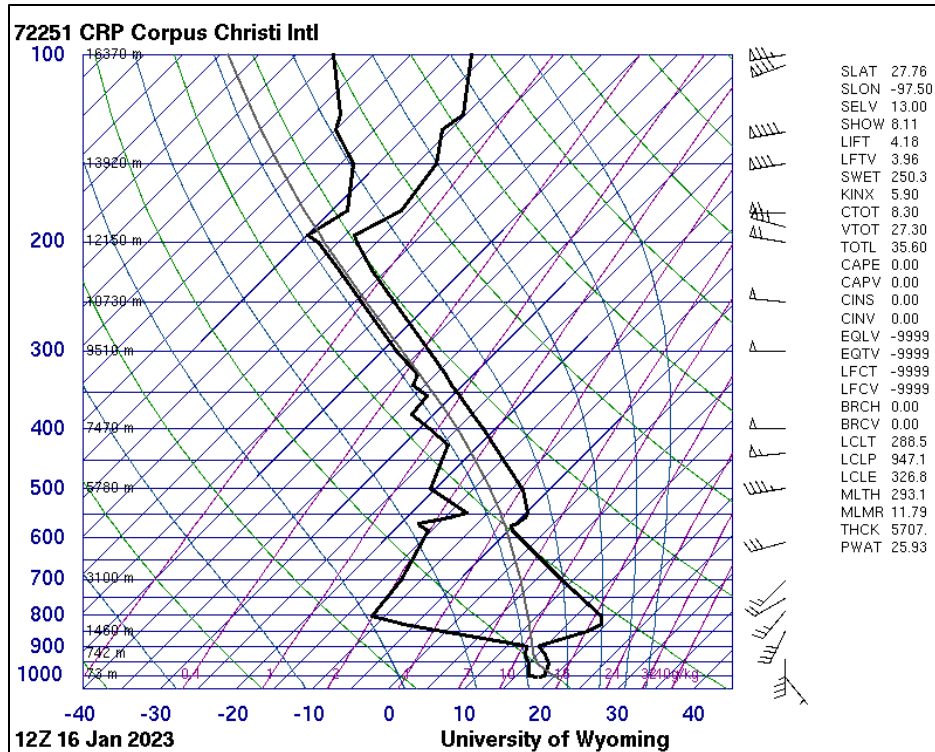


Figure A-9: Upper Air Sounding from Corpus Christi, TX on January 16, 2023, at 6:00 a.m. local time

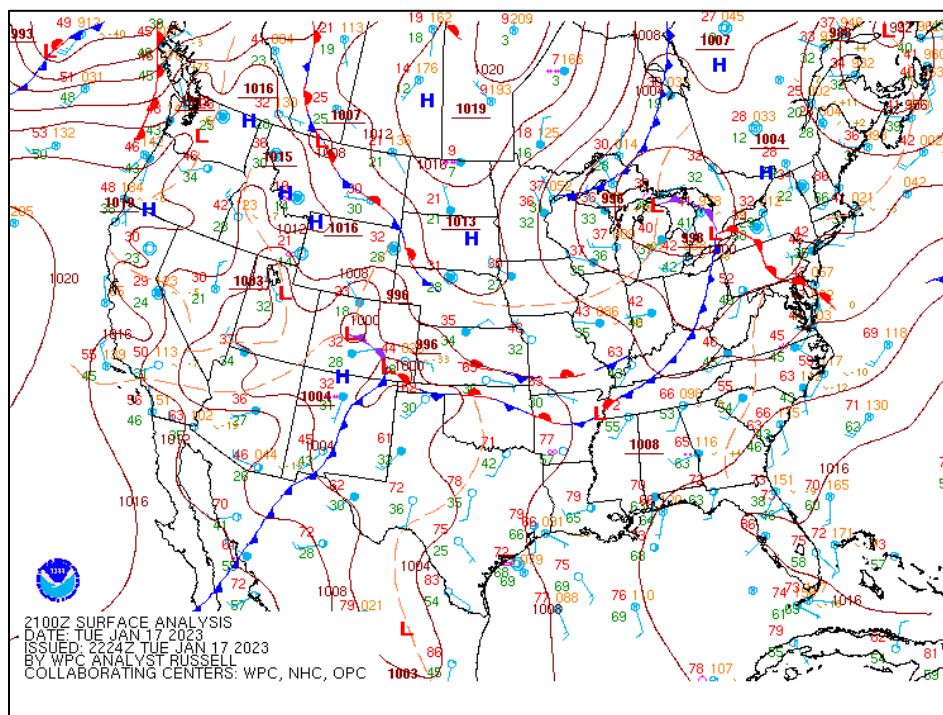


Figure A-10: Surface Analysis Map on January 17, 2023, at 3:00 p.m. local time

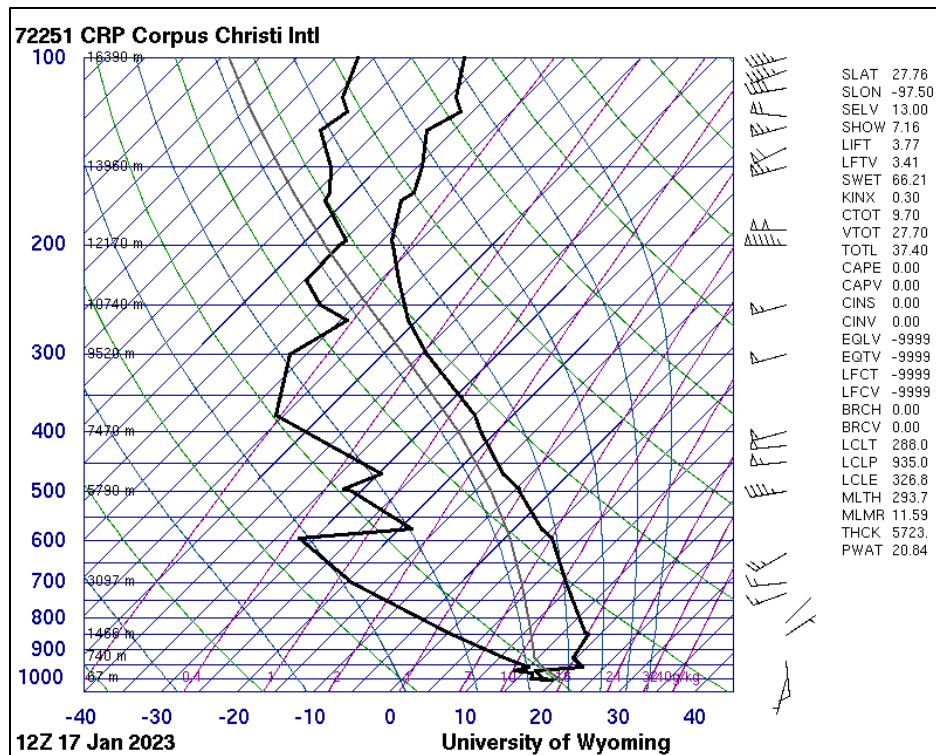


Figure A-11: Upper Air Sounding from Corpus Christi, TX on January 17, 2023, at 6:00 a.m. local time

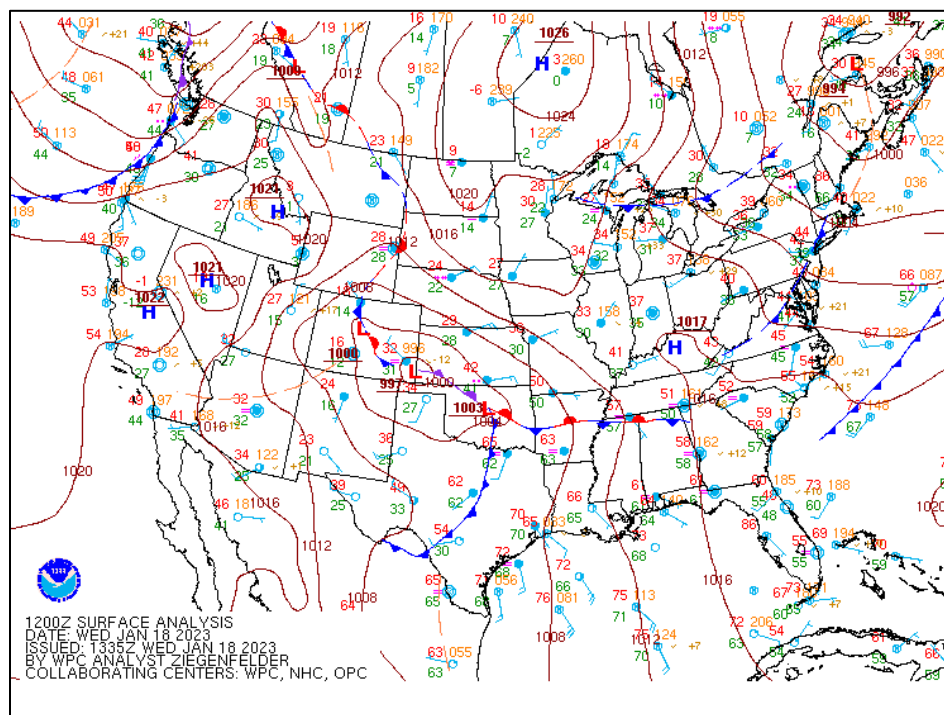


Figure A-12: Surface Analysis Map on January 18, 2023, at 6:00 a.m. local time

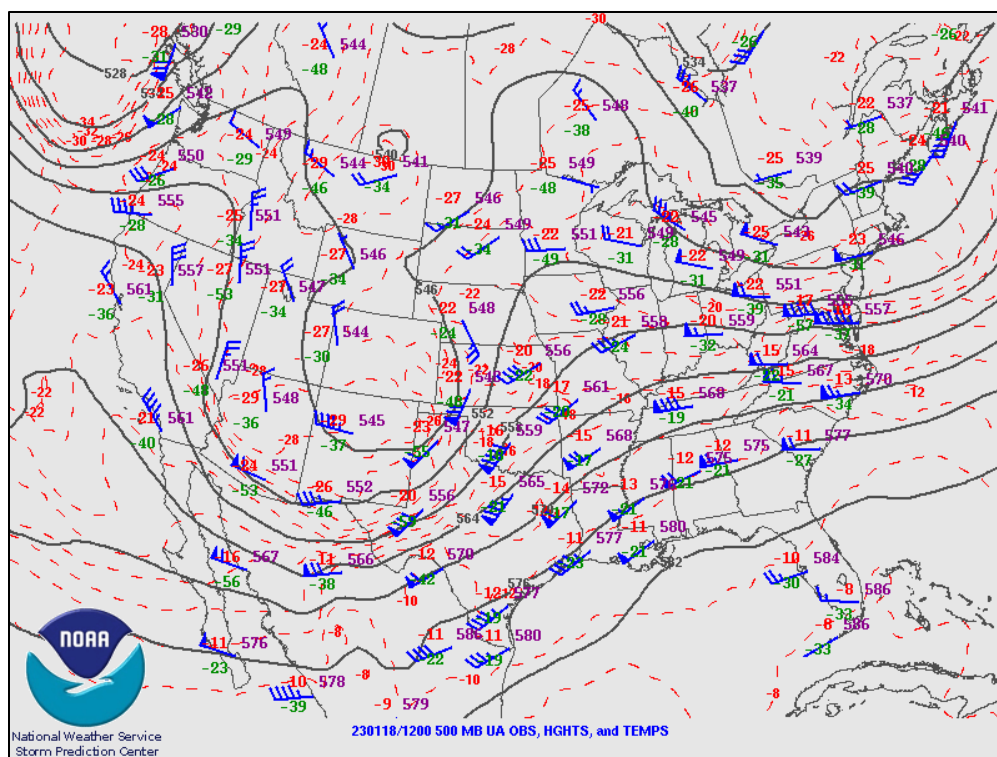


Figure A-13: 500 mb Height Map on January 18, 2023, at 6:00 a.m. local time

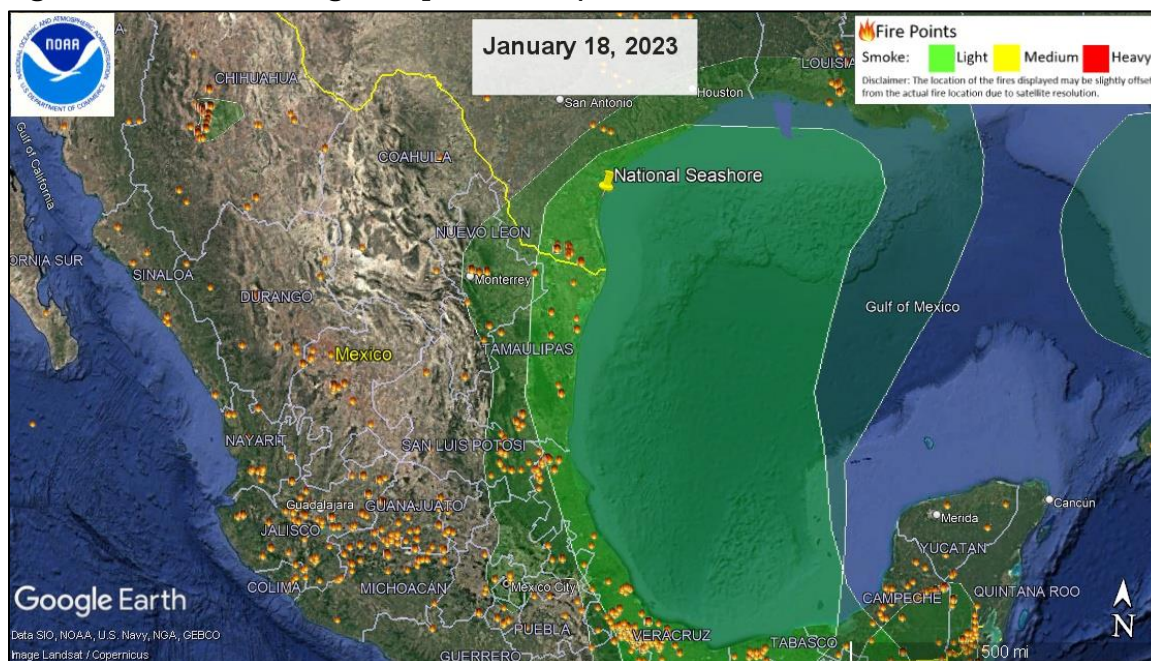


Figure A-14: NOAA HMS Smoke Layer Map for January 18, 2023

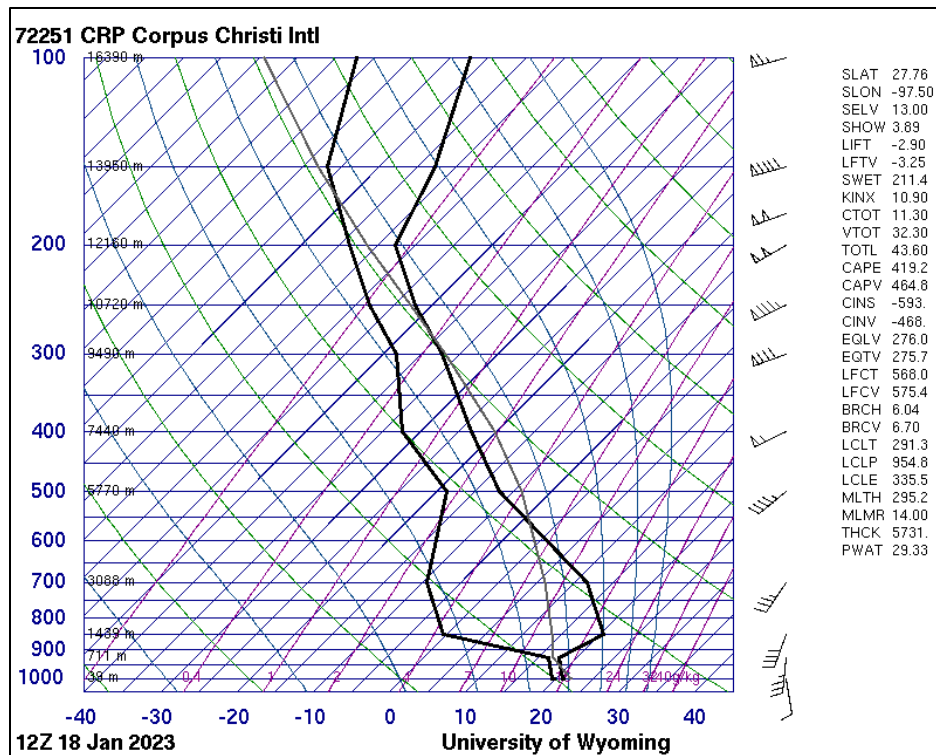


Figure A-15: Upper Air Sounding from Corpus Christi, TX on January 18, 2023, at 6:00 a.m. local time

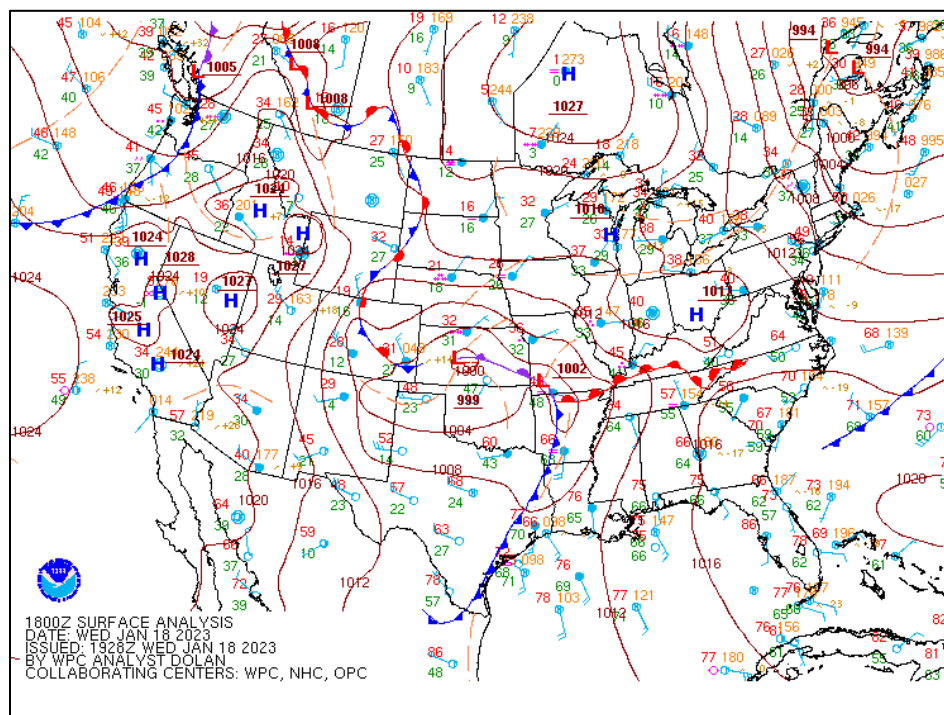


Figure A-16: Surface Analysis Map on January 18, 2023, at 12:00 p.m. local time

GROUP 4 - FEBRUARY 14, 2023

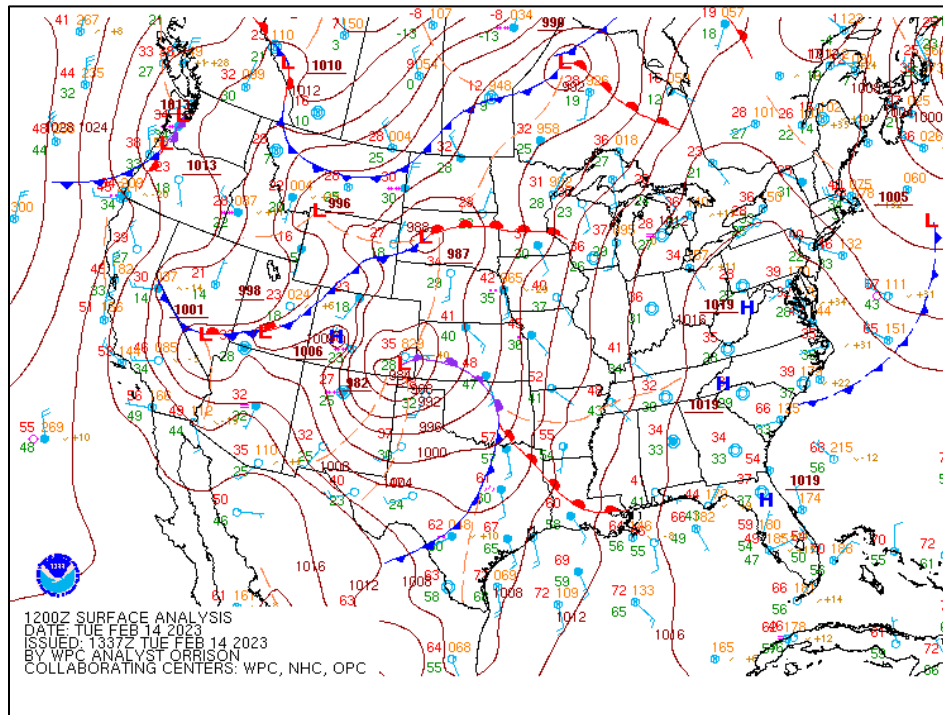


Figure A-17: Surface Analysis Map on February 14, 2023, at 6:00 a.m. local time

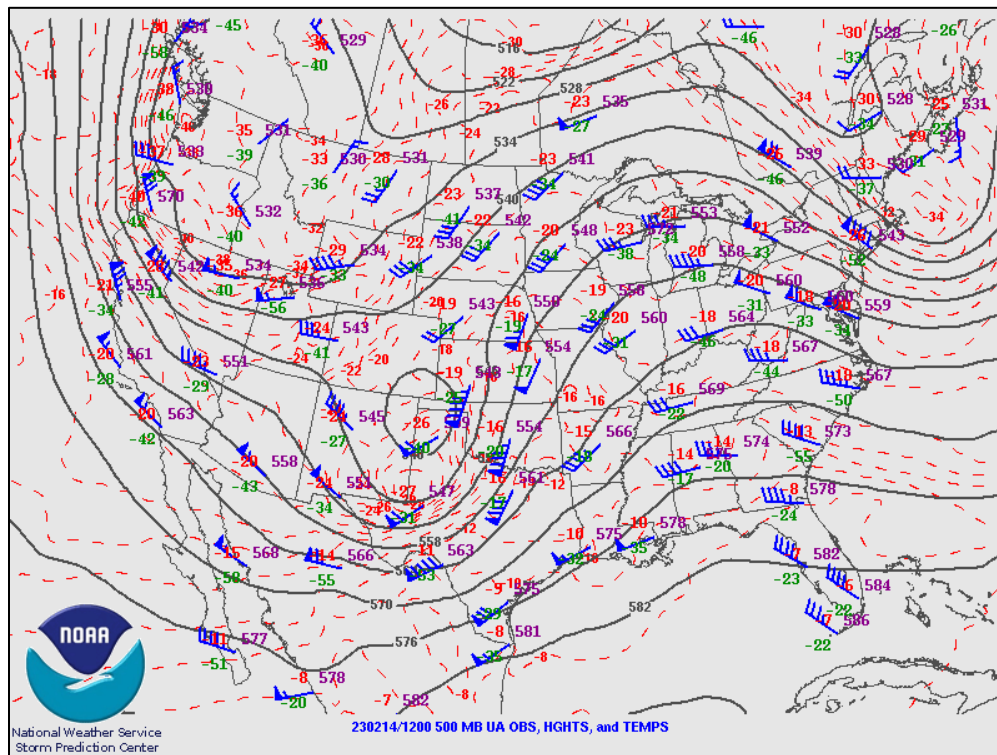


Figure A-18: 500 mb Height Map on February 14, 2023, at 6:00 a.m. local time

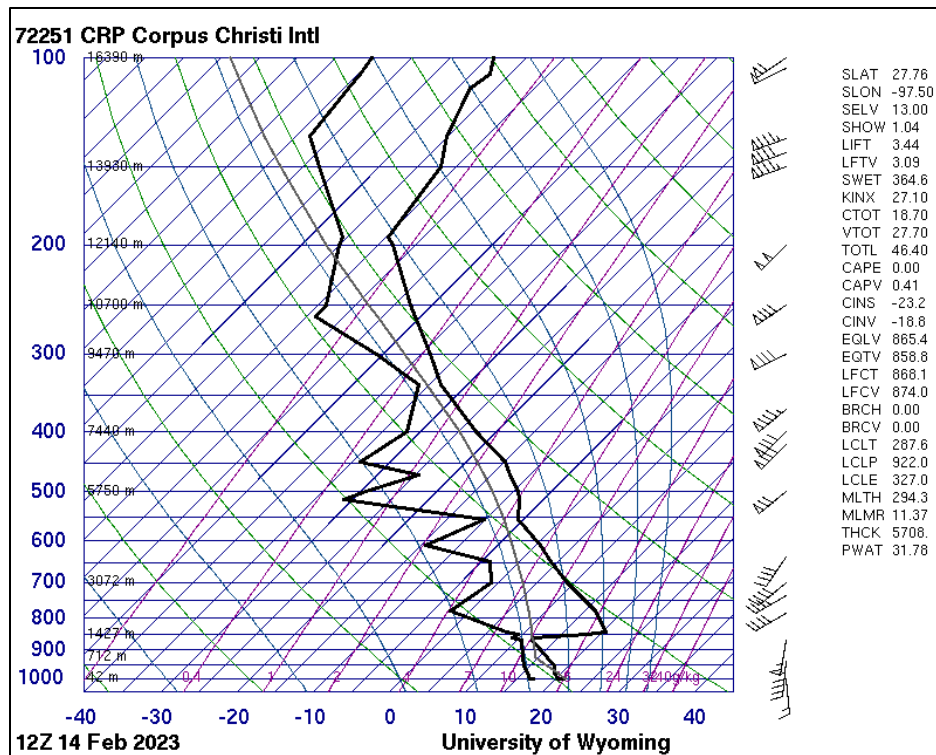


Figure A-19: Upper Air Sounding from Corpus Christi, TX on February 14, 2023, at 6:00 a.m. local time

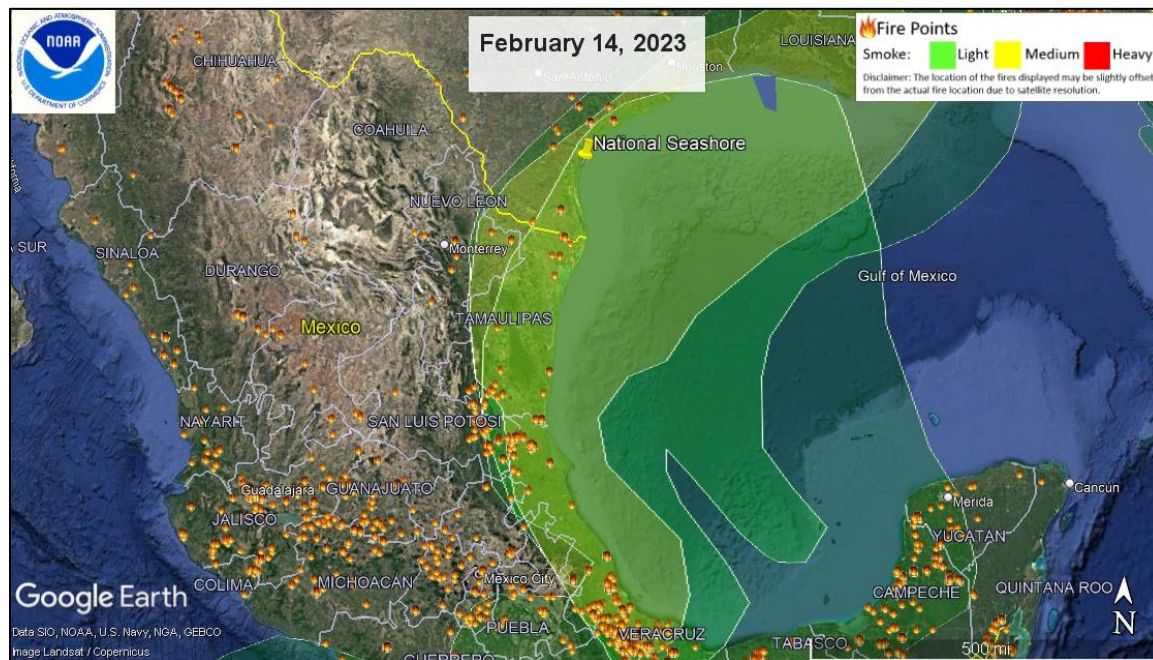


Figure A-20: NOAA HMS Smoke Layer Map for February 14, 2023

GROUP 5 - FEBRUARY 27, 2023

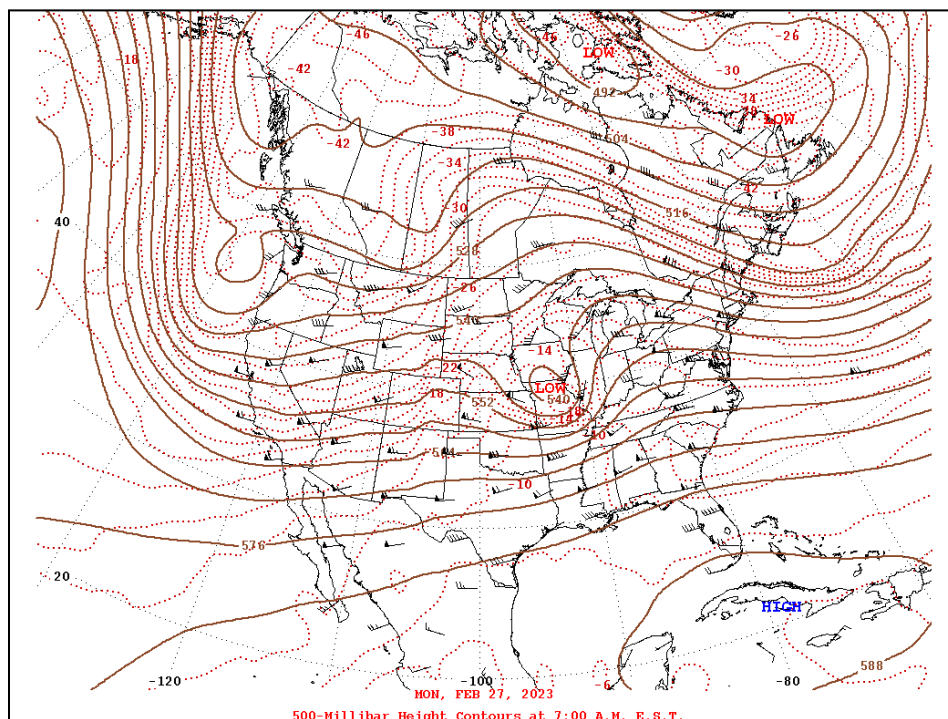


Figure A-21: 500 mb Height Map on February 27, 2023, at 6:00 a.m. local time

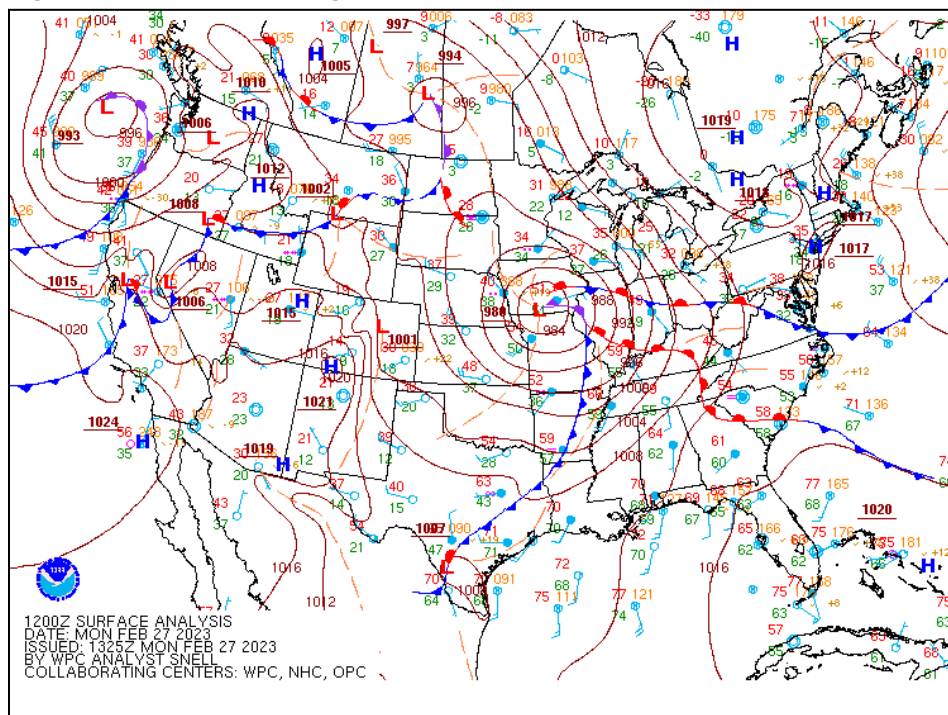
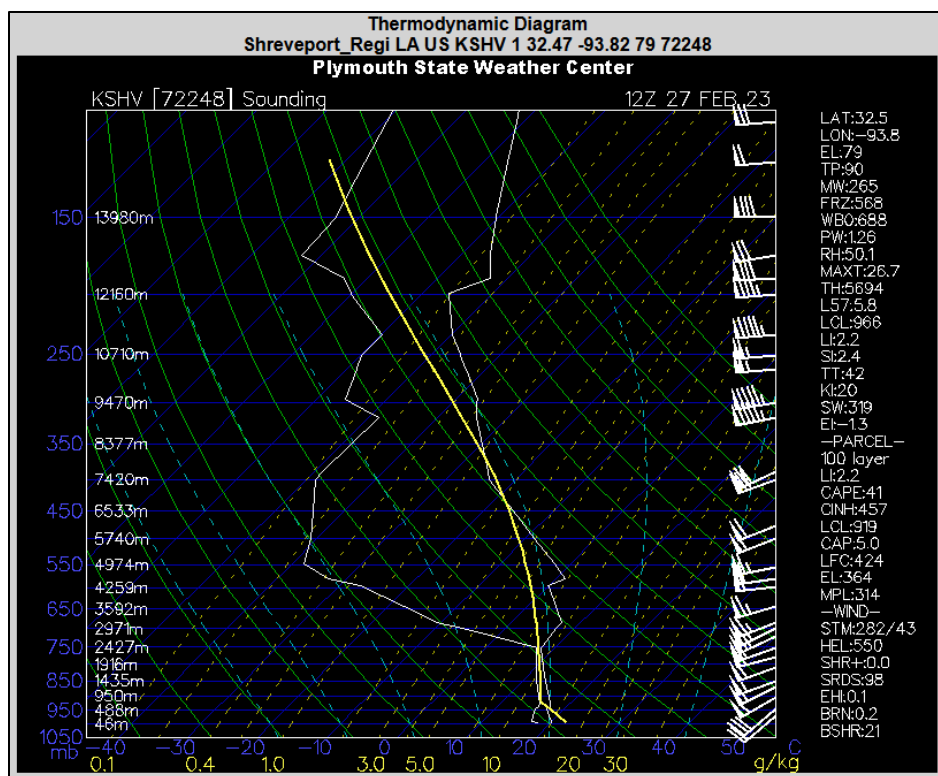
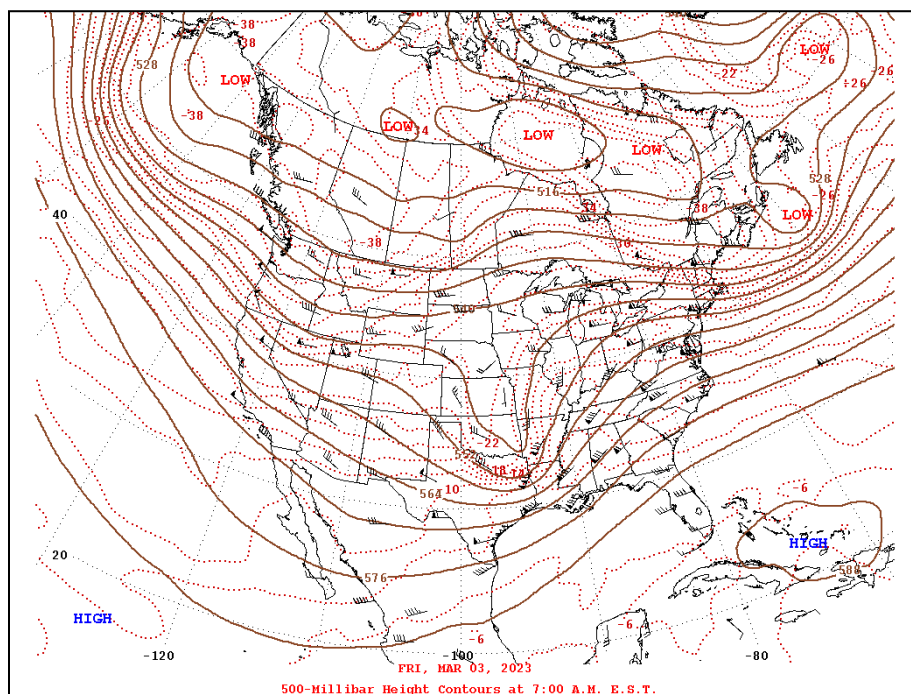


Figure A-22: Surface Analysis Map on February 27, 2023, at 6:00 a.m. local time



GROUP 6 - MARCH 2, 2023



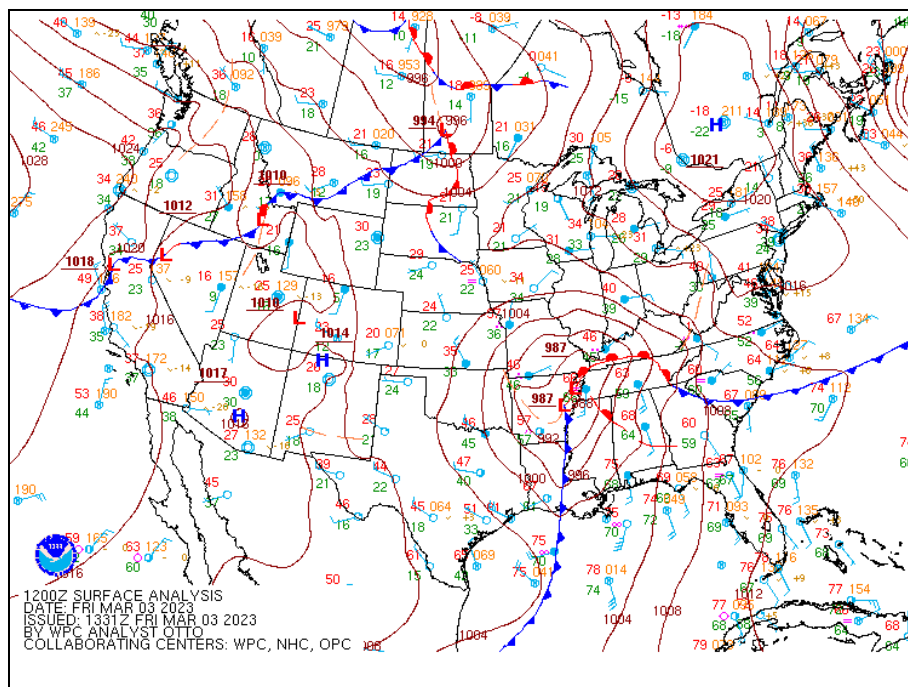


Figure A-25: Surface analysis Map on March 3, 2023, at 6:00 a.m. local time

GROUP 7 - MARCH 15, 2023

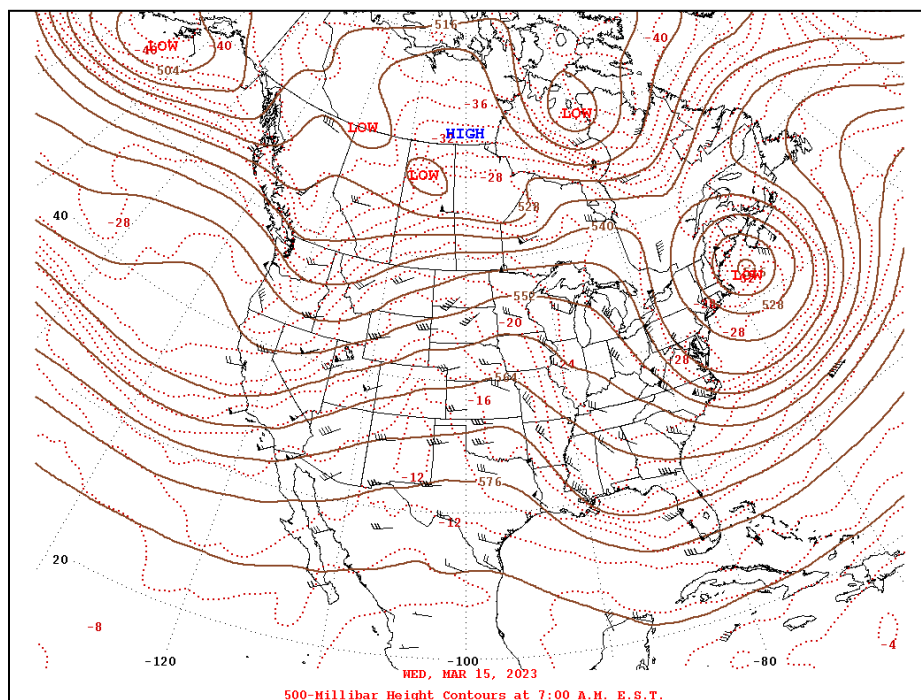


Figure A-26: 500 mb height chart on March 15, 2023, at 6:00 a.m. local time

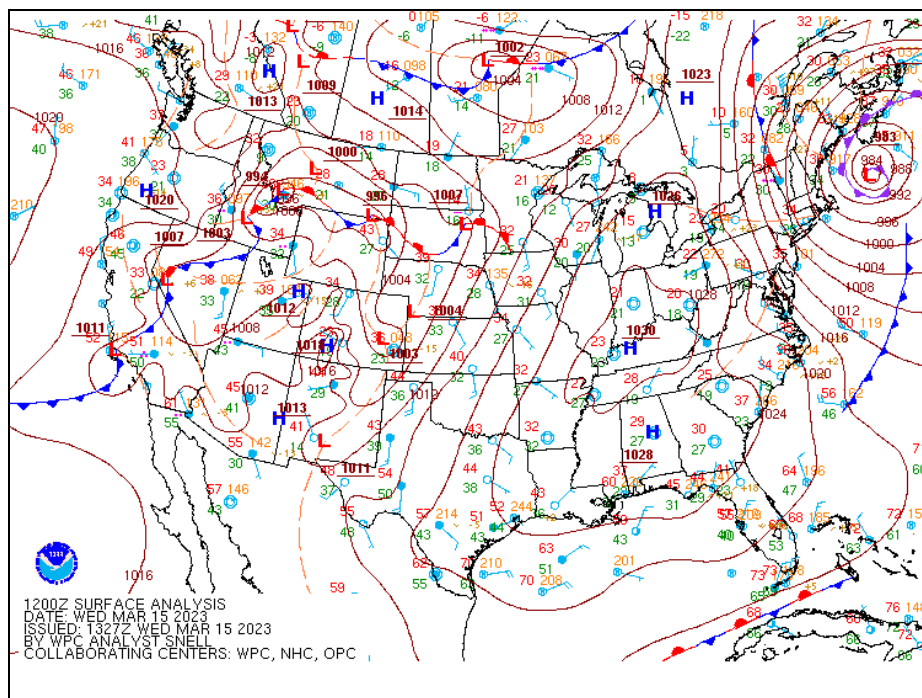


Figure A-27: Surface Analysis Map on March 15, 2023, at 6:00 a.m. local time

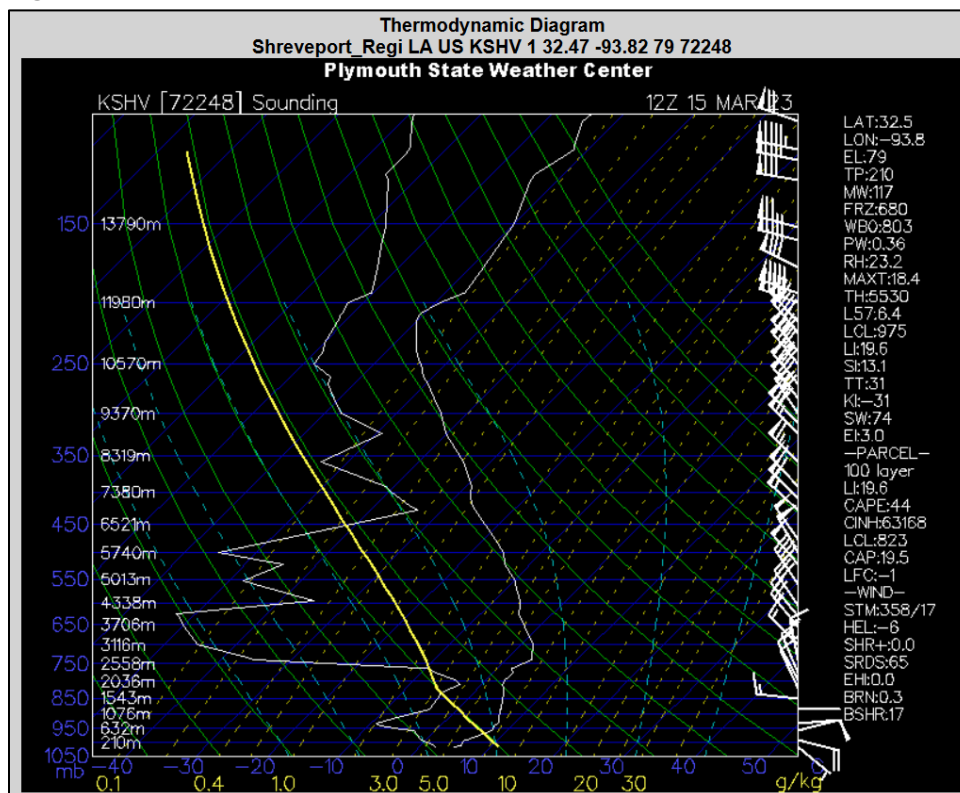


Figure A-28: Upper Air Sounding from Shreveport, LA on March 15, 2023, at 6:00 a.m. local time

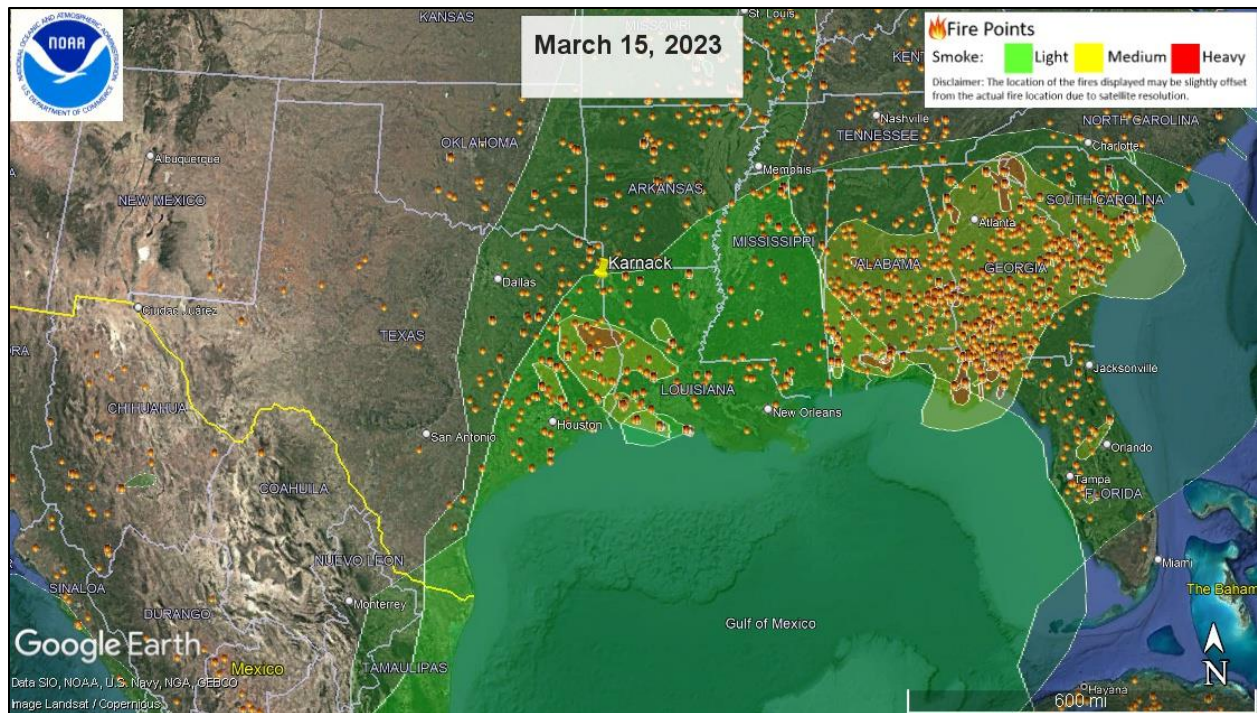


Figure A-29: NOAA HMS Smoke Layer Map for March 15, 2023

GROUP 8 - MAY 5, 2023

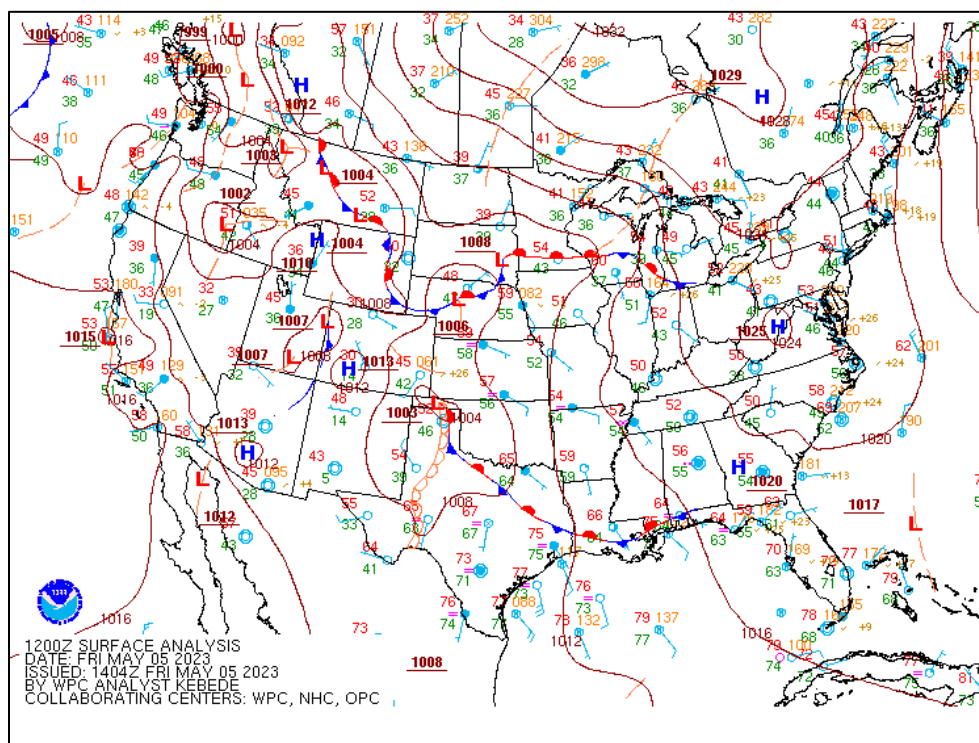


Figure A-30: Surface Analysis Map on May 5, 2023, at 7:00 a.m. local time

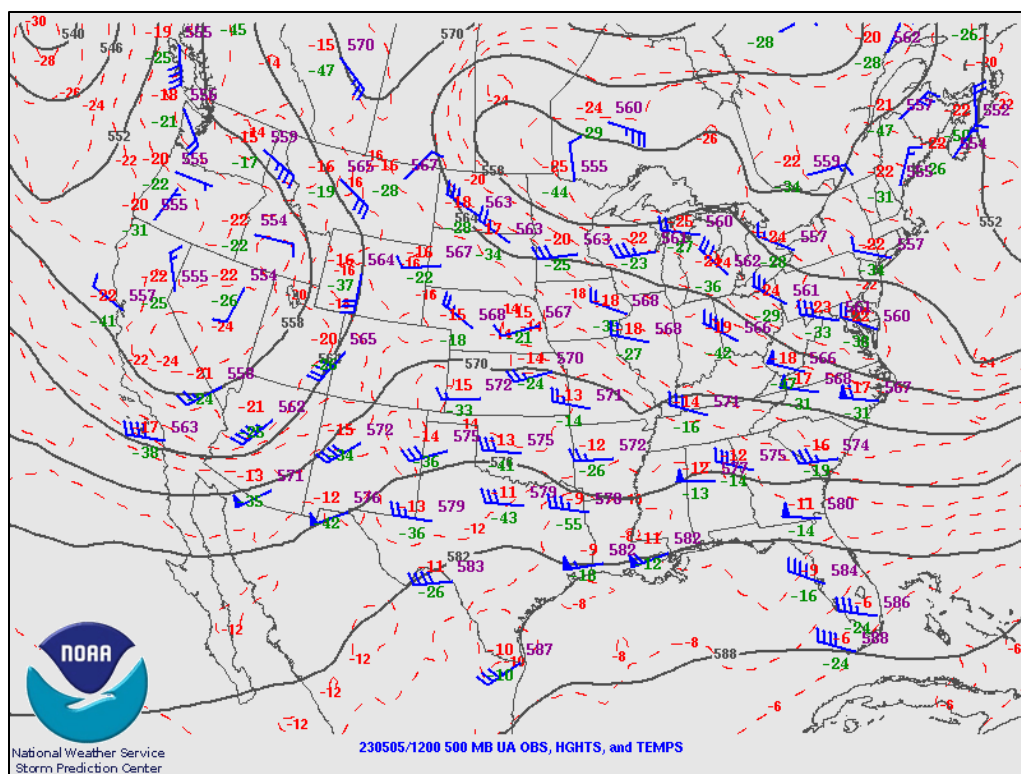


Figure A-31: 500 mb Height Map on May 5, 2023, at 7:00 a.m. local time

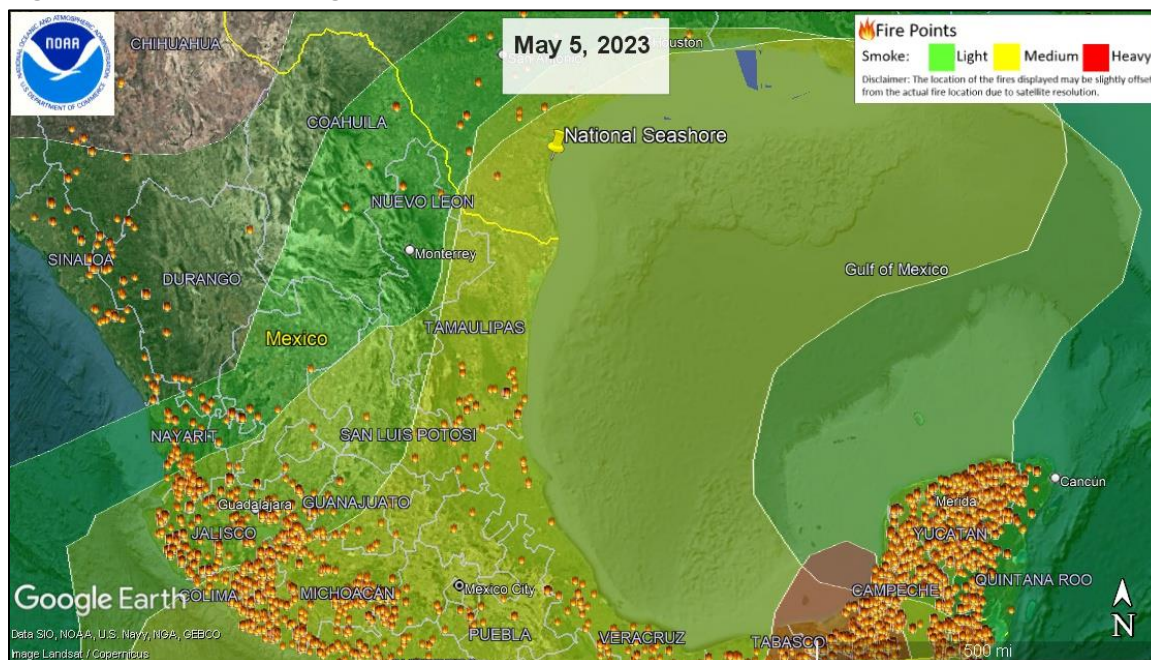


Figure A-32: NOAA HMS Smoke Layer Map for May 5, 2023

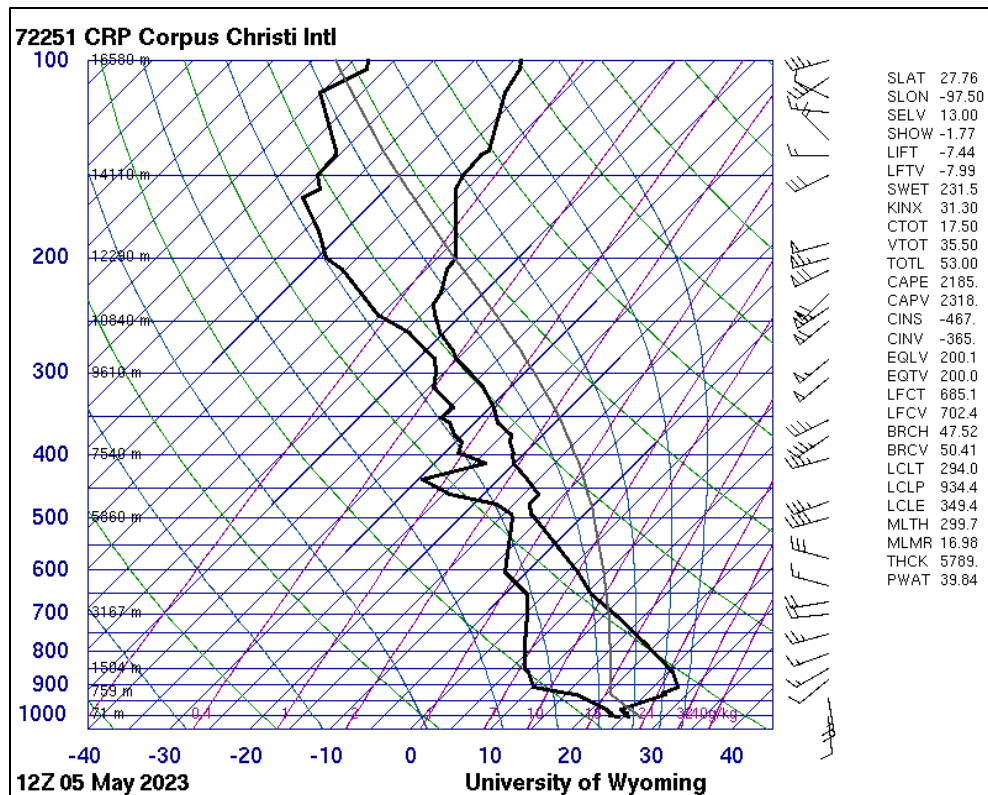


Figure A-33: Upper Air Sounding from Corpus Christi, TX on May 5, 2023, at 7:00 a.m. local time

GROUP 9 - JUNE 13, JUNE 14, AND JUNE 15, 2023

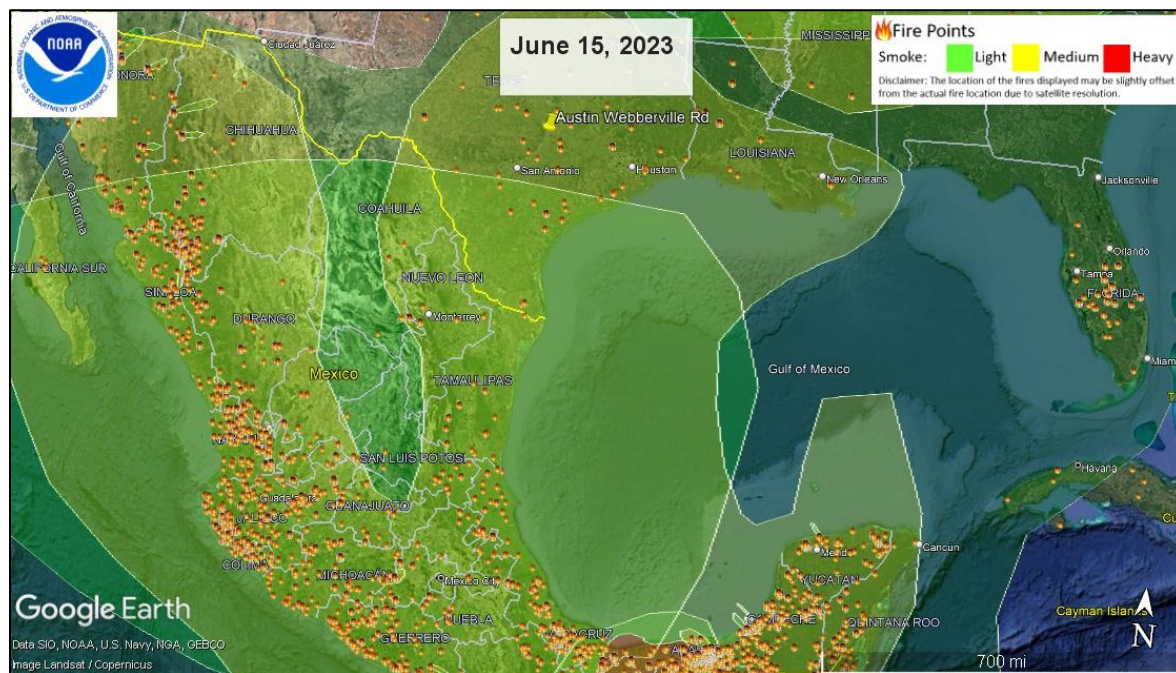


Figure A-34: NOAA HMS Smoke Layer Map for June 15, 2023

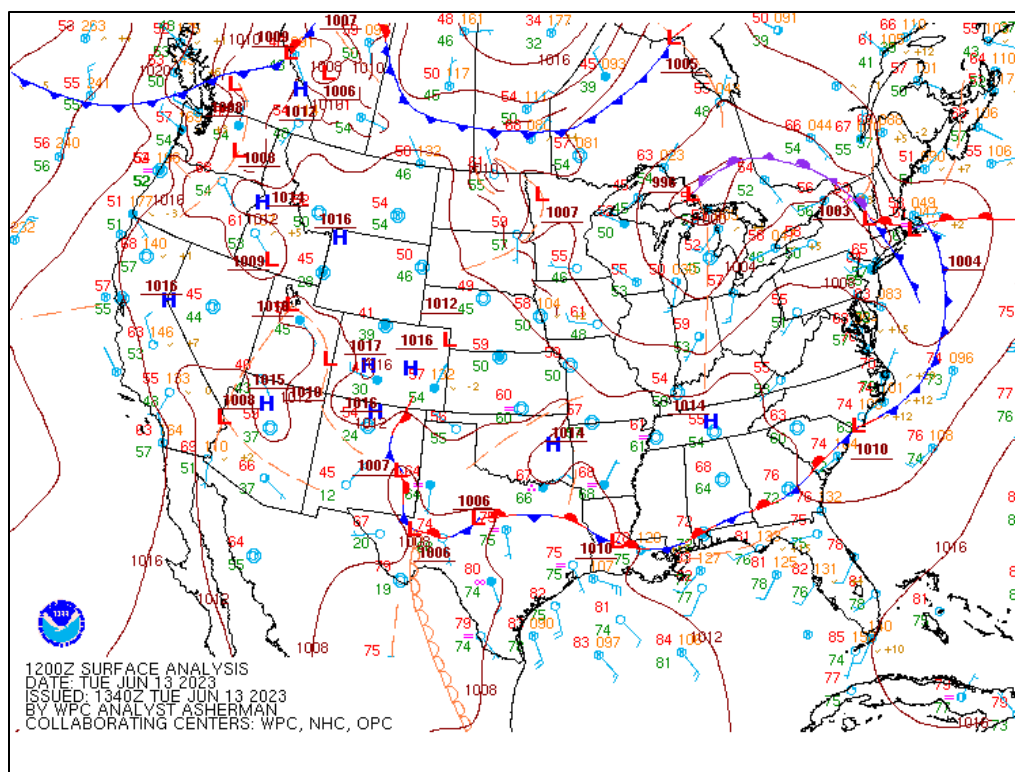


Figure A-35: Surface Analysis Map on June 13, 2023, at 7:00 a.m. local time

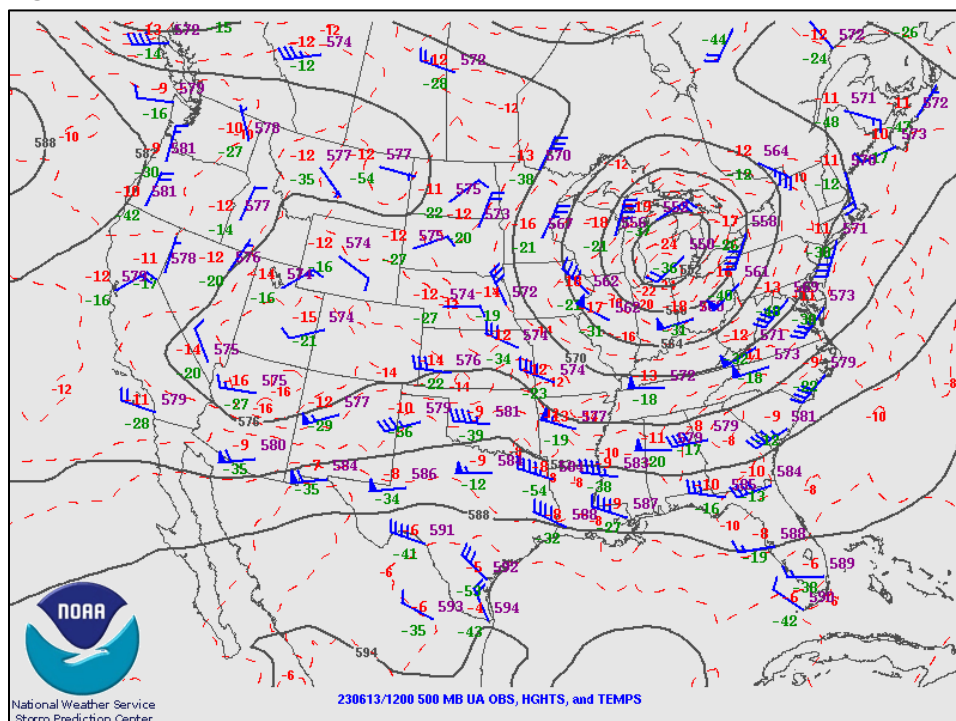


Figure A-36: 500 mb Height Map on June 13, 2023, at 7:00 a.m. local time

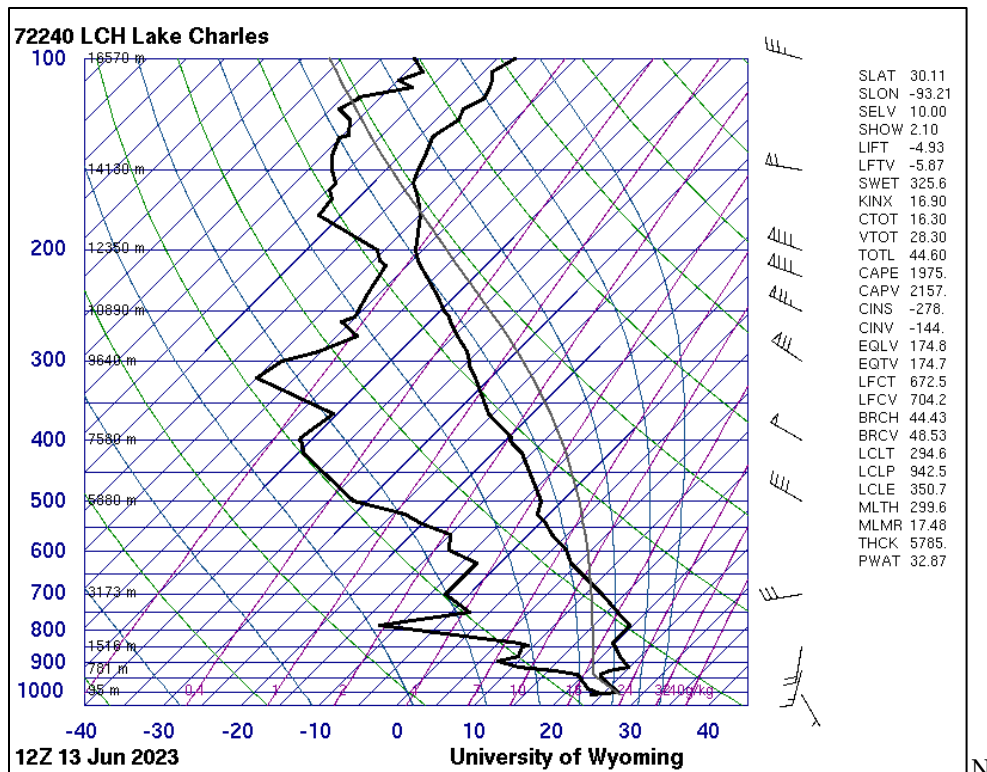


Figure A-37: Upper Air Sounding from Lake Charles, LA on June 13, 2023, at 7:00 a.m. local time

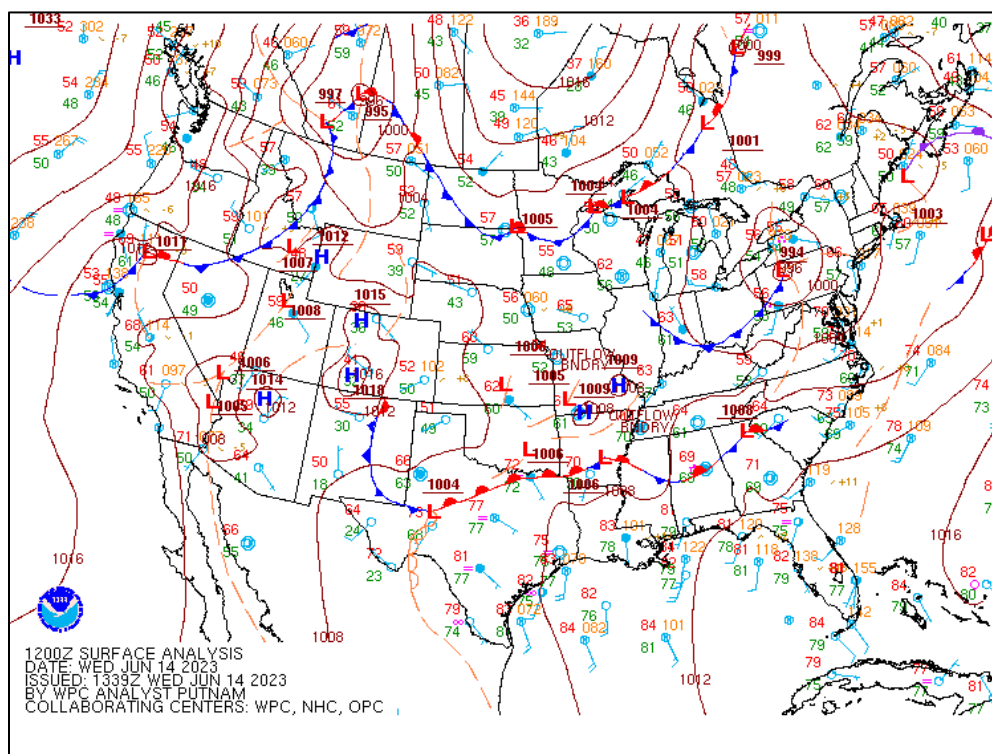


Figure A-38: Surface Analysis Map on June 14, 2023, at 7:00 a.m. local time

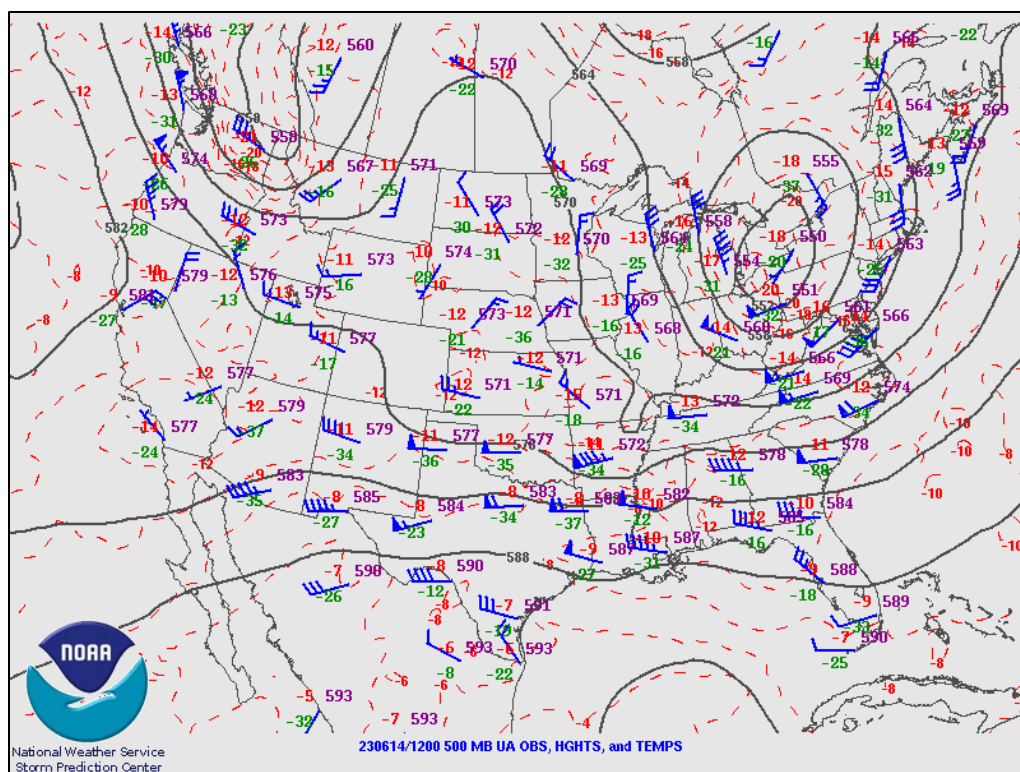


Figure A-39: 500 mb Height Map on June 14, 2023, at 7:00 a.m. local time

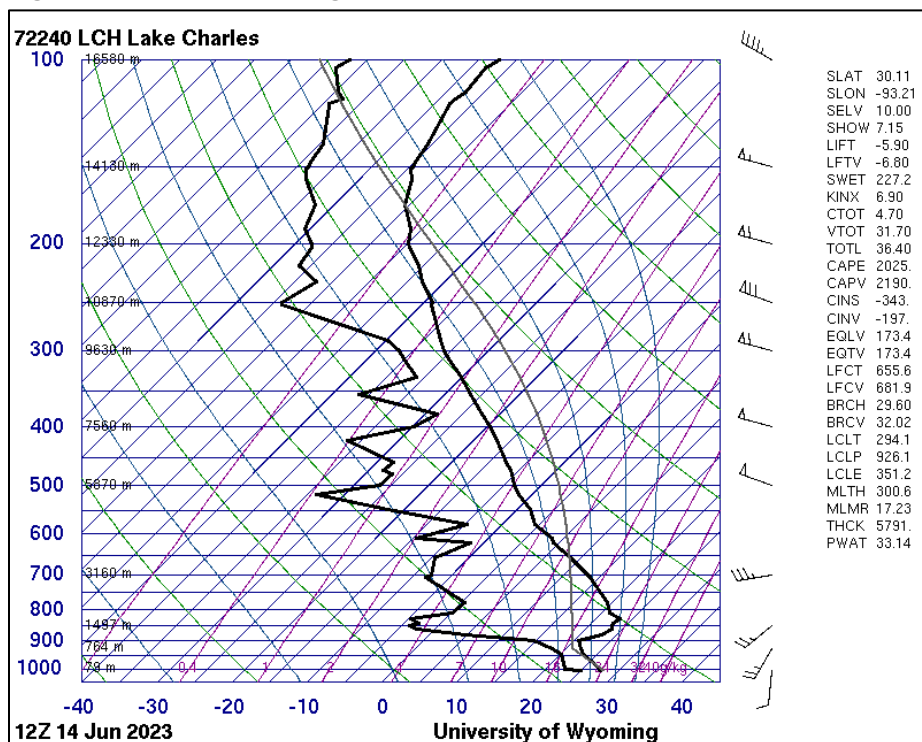


Figure A-40: Upper Air Sounding from Lake Charles, LA on June 14, 2023, at 7:00 a.m. local time

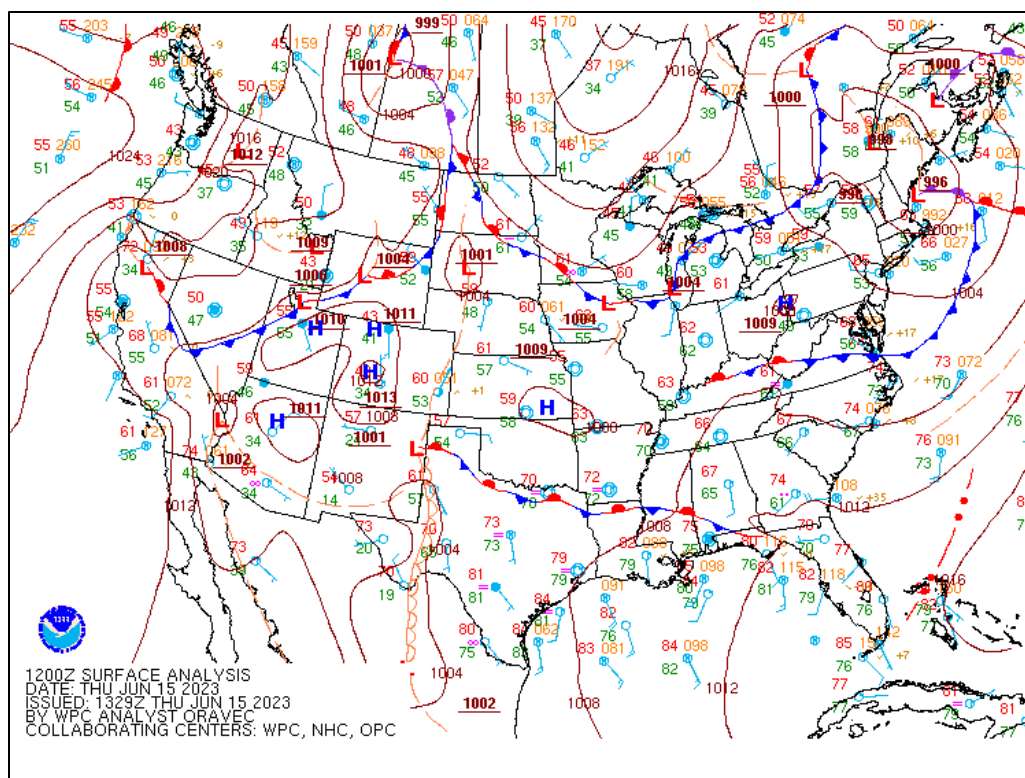


Figure A-41: Surface Analysis Map on June 15, 2023, at 7:00 a.m. local time

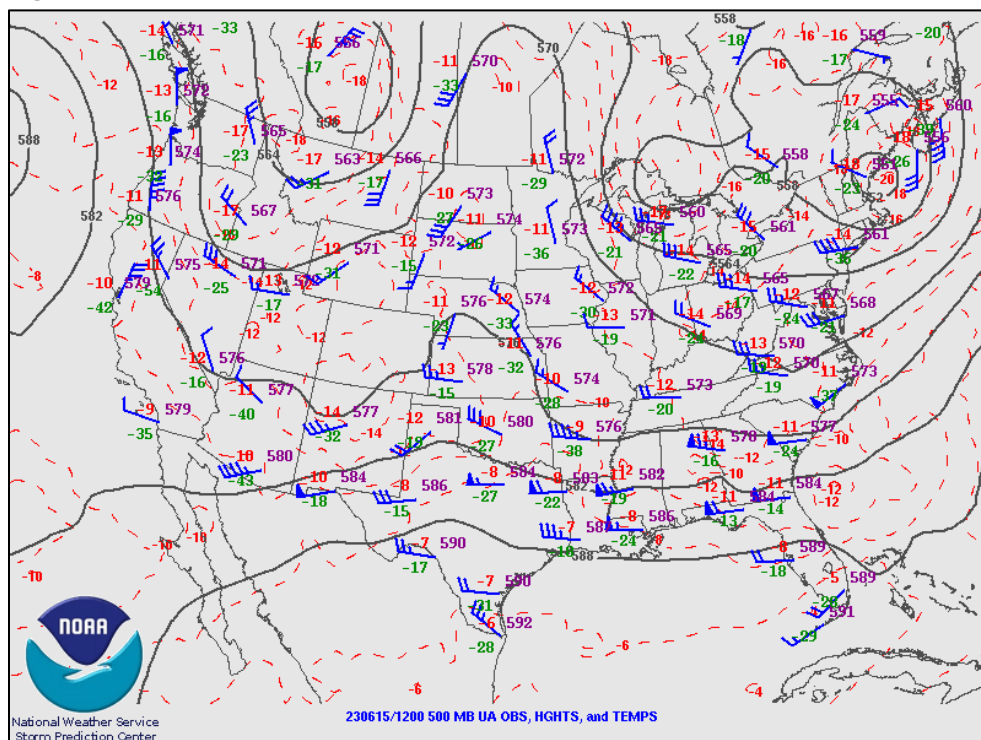


Figure A-42: 500 mb Height Map on June 15, 2023, at 7:00 a.m. local time

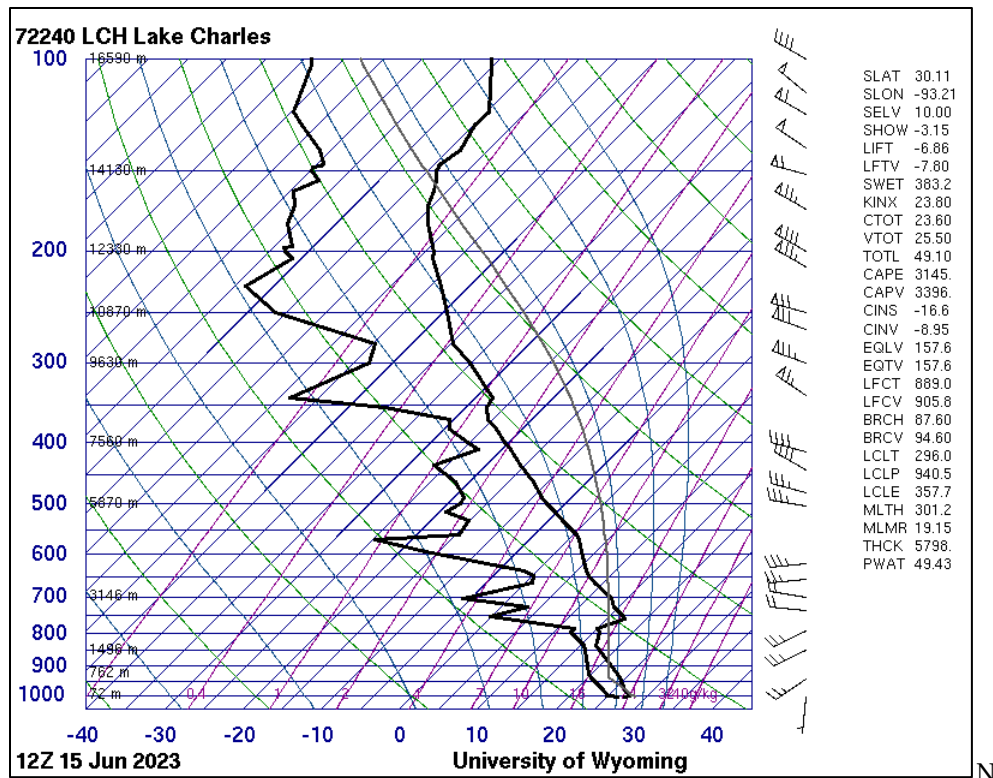


Figure A-43: Upper Air Sounding from Lake Charles, LA on June 15, 2023, at 7:00 a.m. local time

GROUP 10 - JULY 15 AND JULY 16, 2023

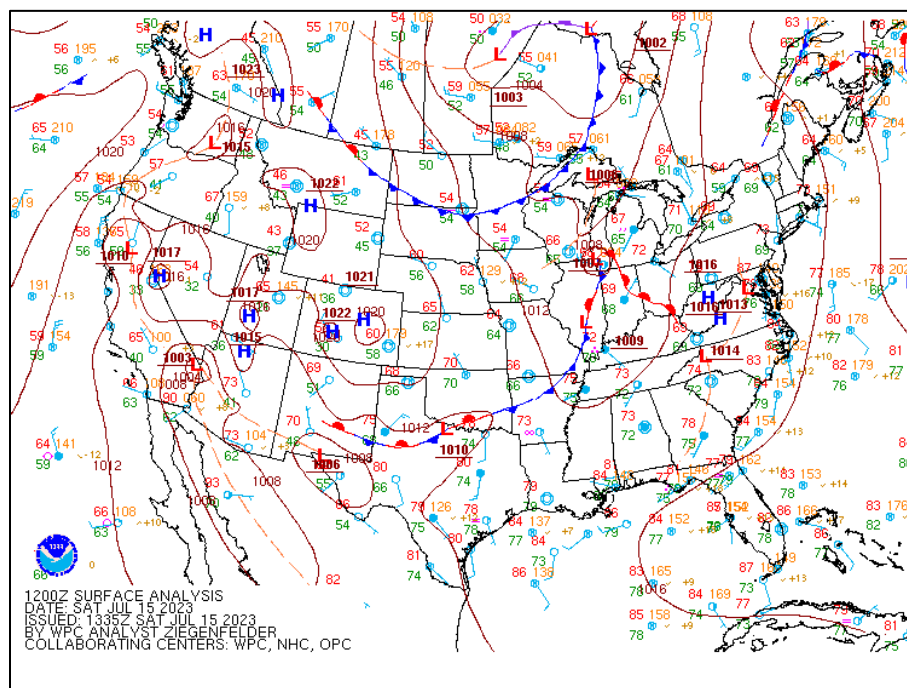


Figure A-44: Surface Analysis Map on July 15, 2023, at 7:00 a.m. local time

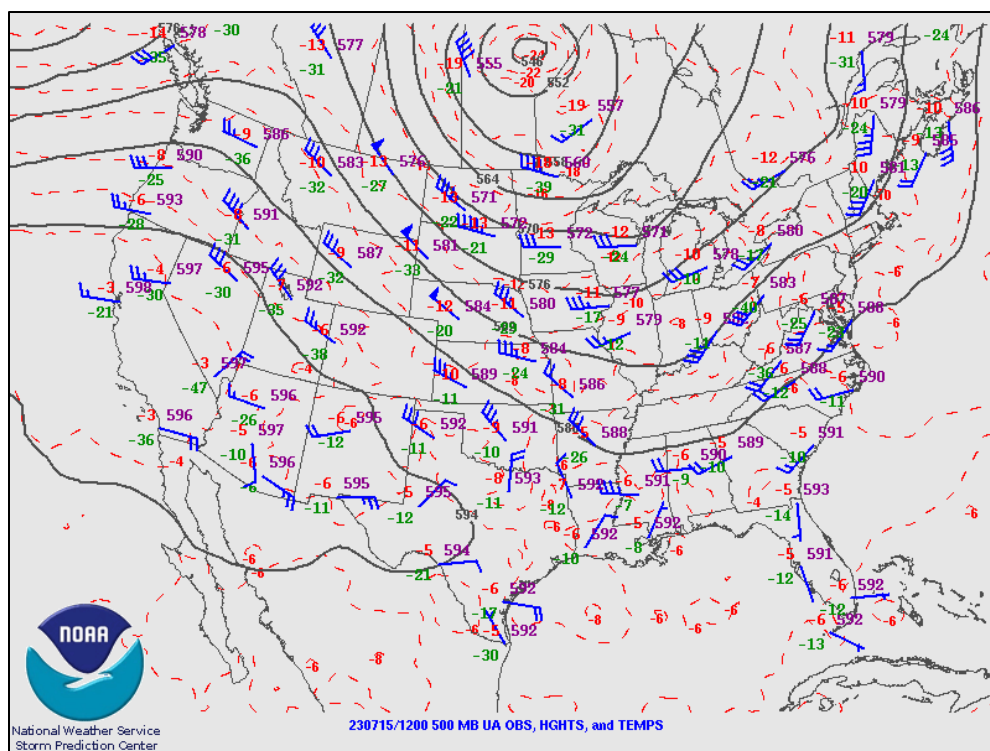


Figure A-45: 500 mb Height Map on July 15, 2023, at 7:00 a.m. local time

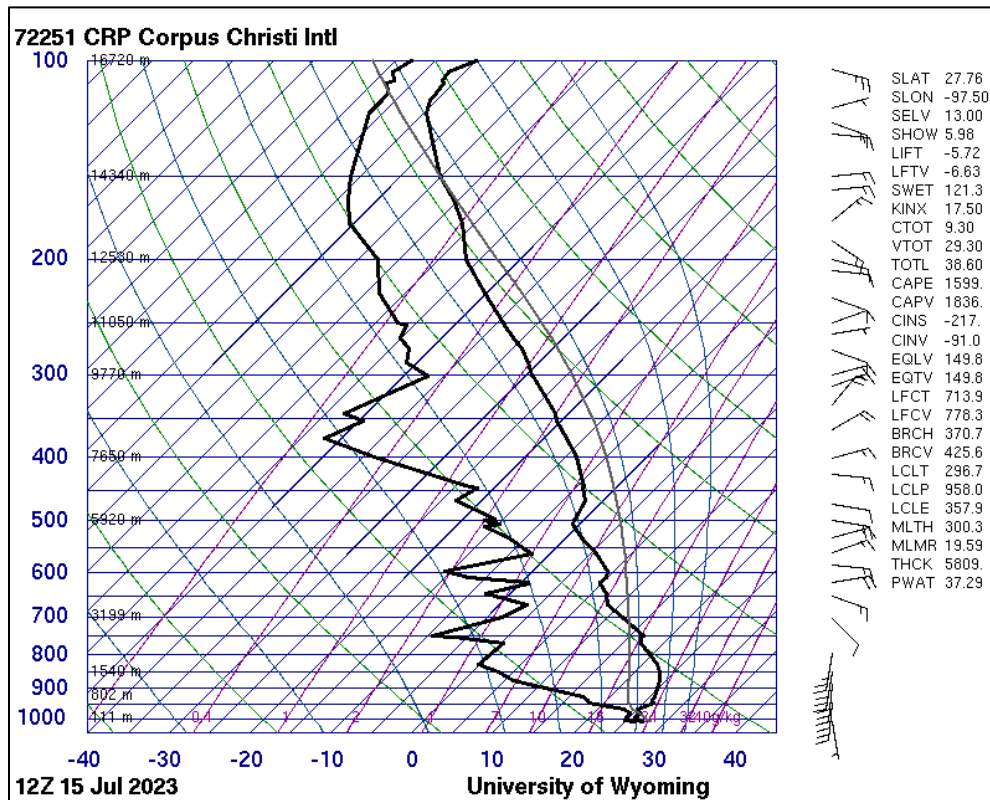


Figure A-46: Upper Air Sounding from Corpus Christi on July 15, 2023, at 7:00 a.m. local time

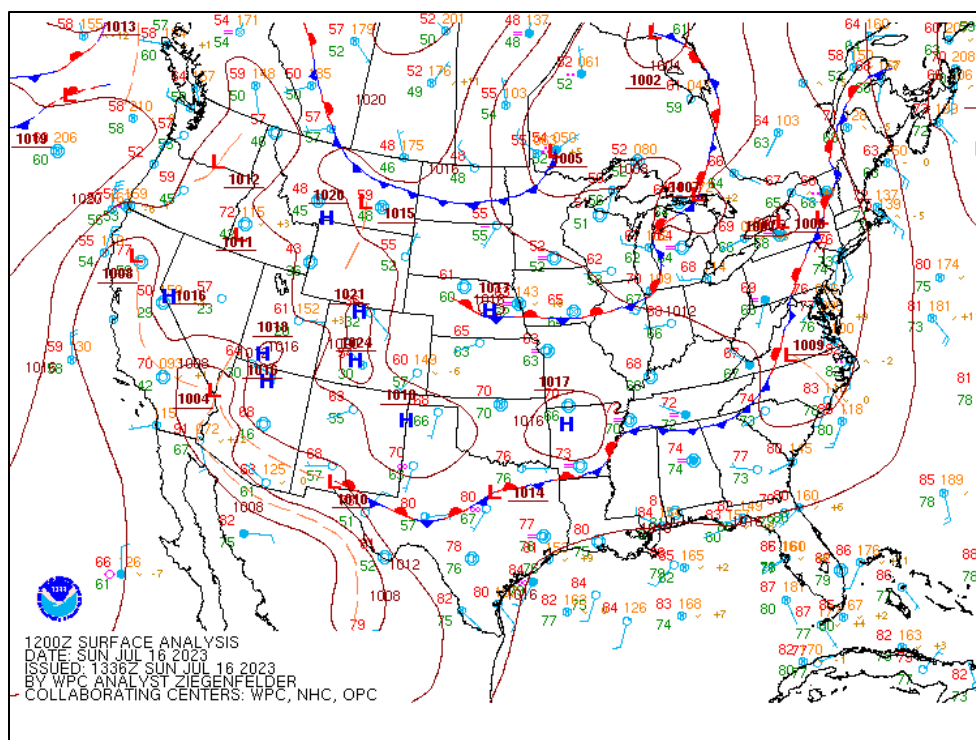


Figure A-47: Surface Analysis Map on July 16, 2023, at 7:00 a.m. local time

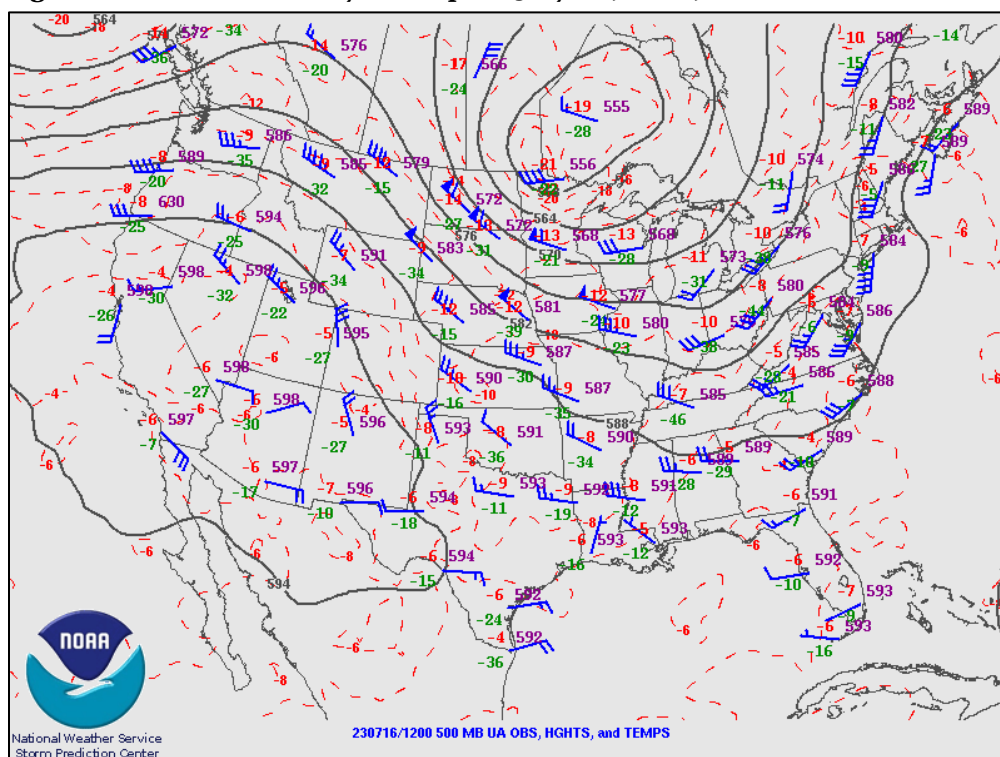


Figure A-48: 500 mb Height Map on July 16, 2023, at 7:00 a.m. local time

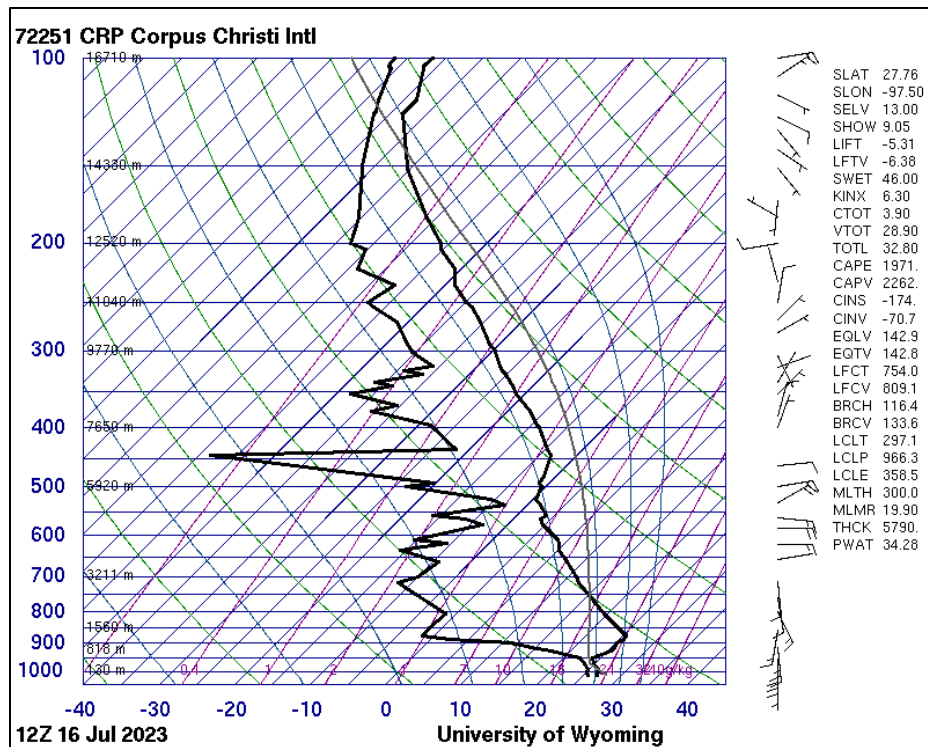


Figure A-49: Upper Air Sounding from Corpus Christi on July 16, 2023, at 7:00 a.m. local time

GROUP 11 - JULY 25, JULY 26, JULY 27, AND JULY 28, 2023

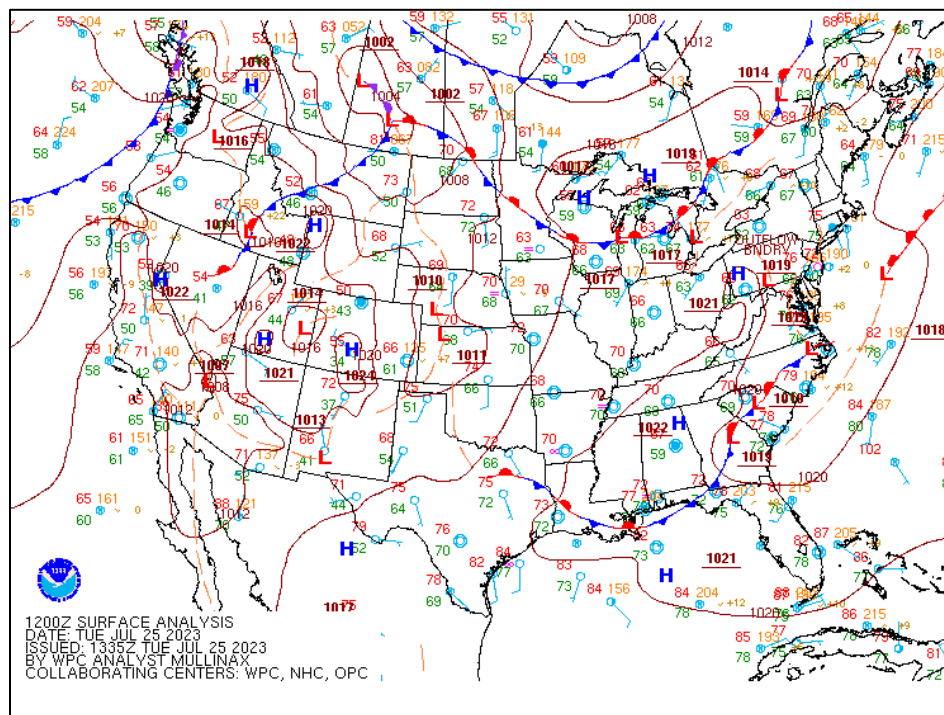


Figure A-50: Surface Analysis Map on July 25, 2023, at 7:00 a.m. local time

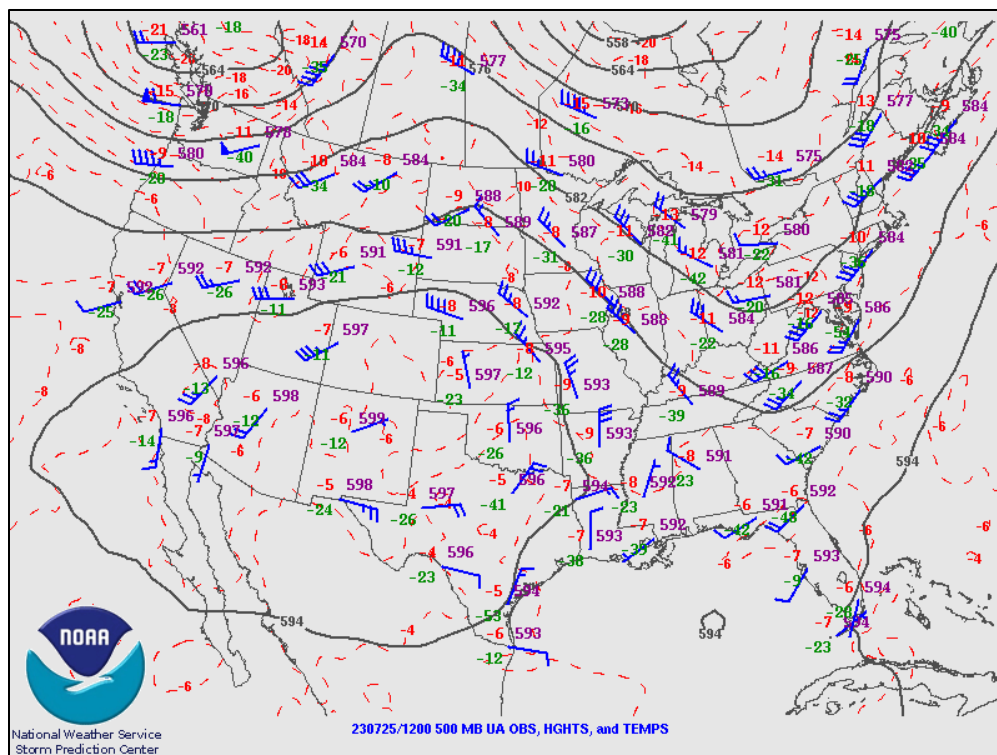


Figure A-51: 500 mb Height Map on July 25, 2023, at 7:00 a.m. local time

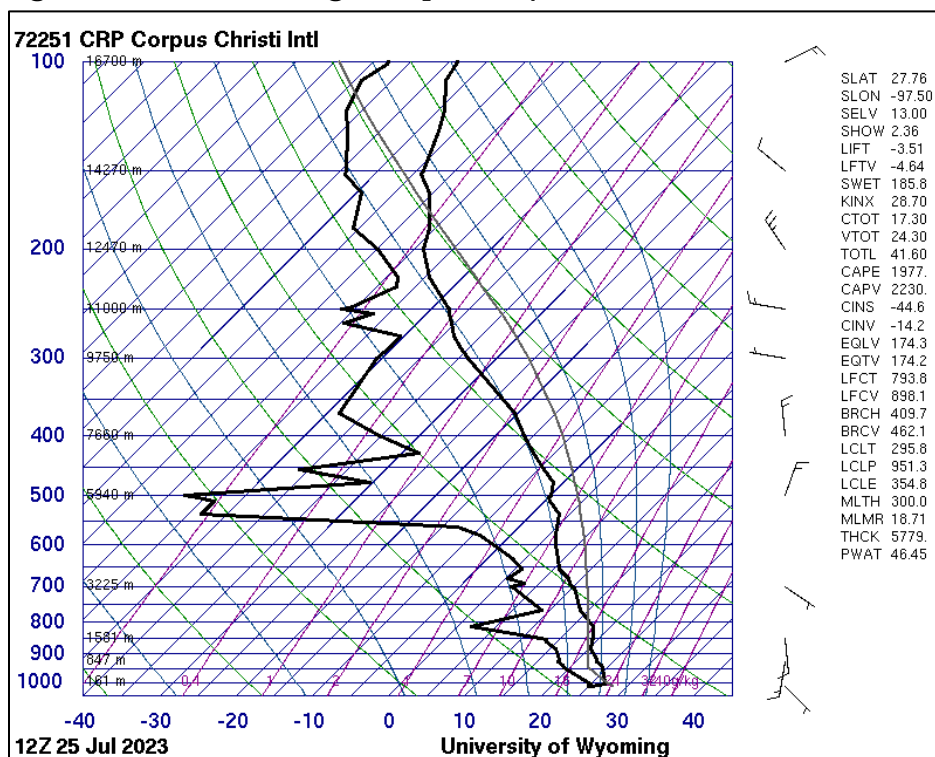


Figure A-52: Upper Air Sounding from Corpus Christi on July 25, 2023, at 7:00 a.m. local time

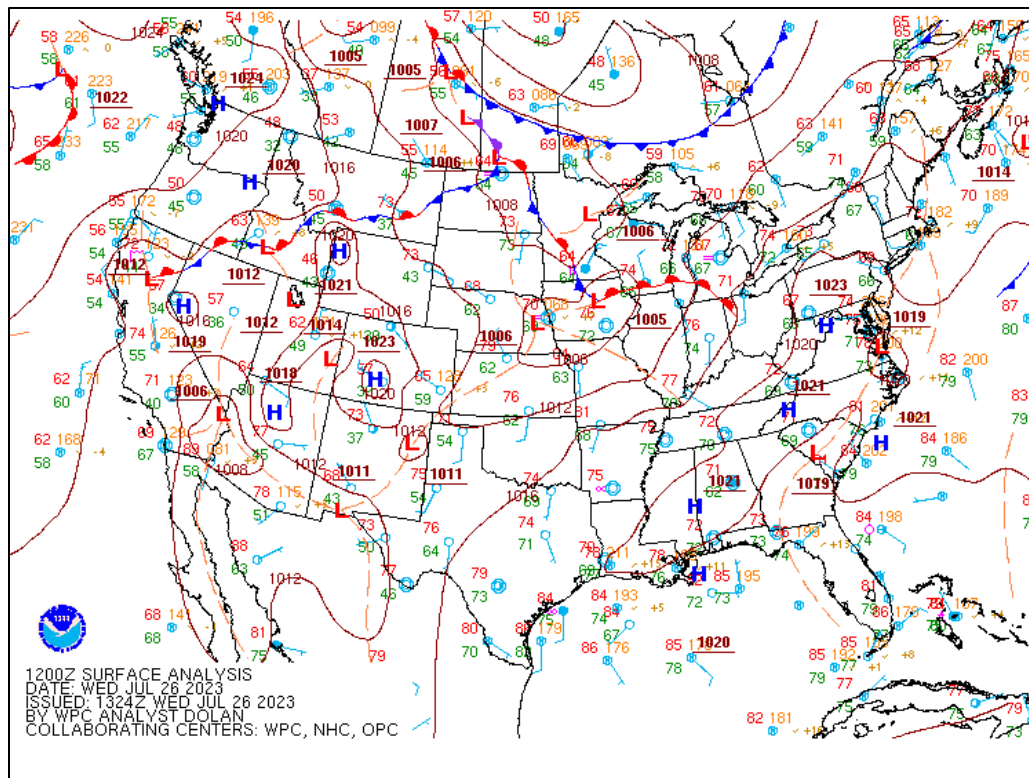


Figure A-53: Surface Analysis Map on July 26, 2023, at 7:00 a.m. local time

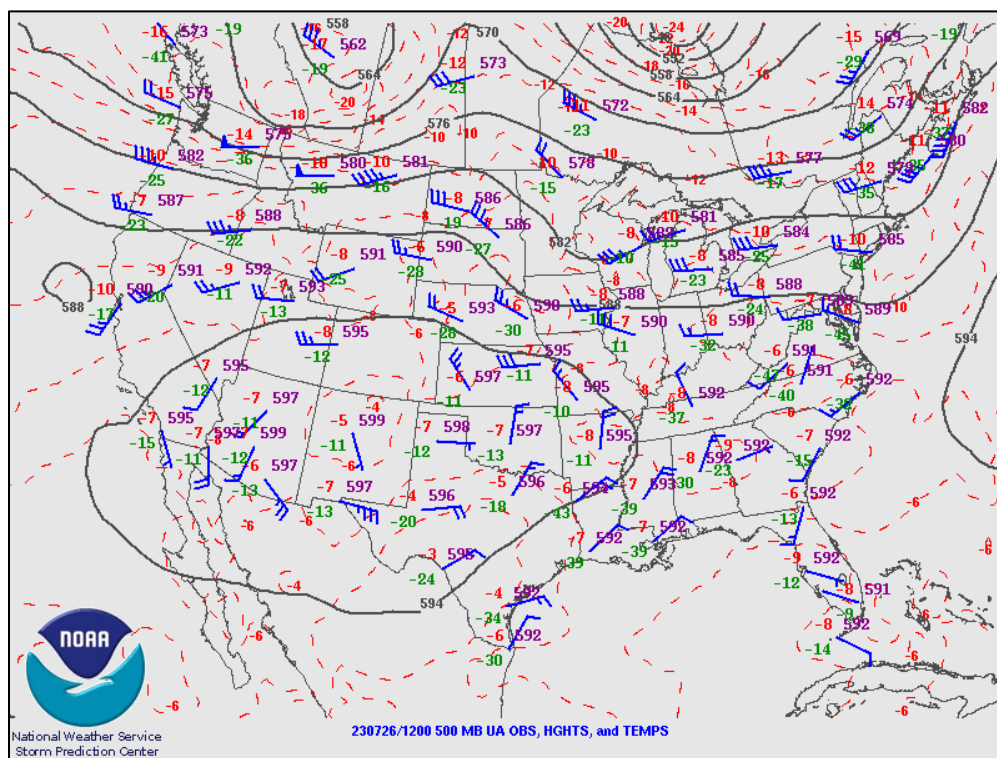


Figure A-54: 500 mb Height Map on July 26, 2023, at 7:00 a.m. local time

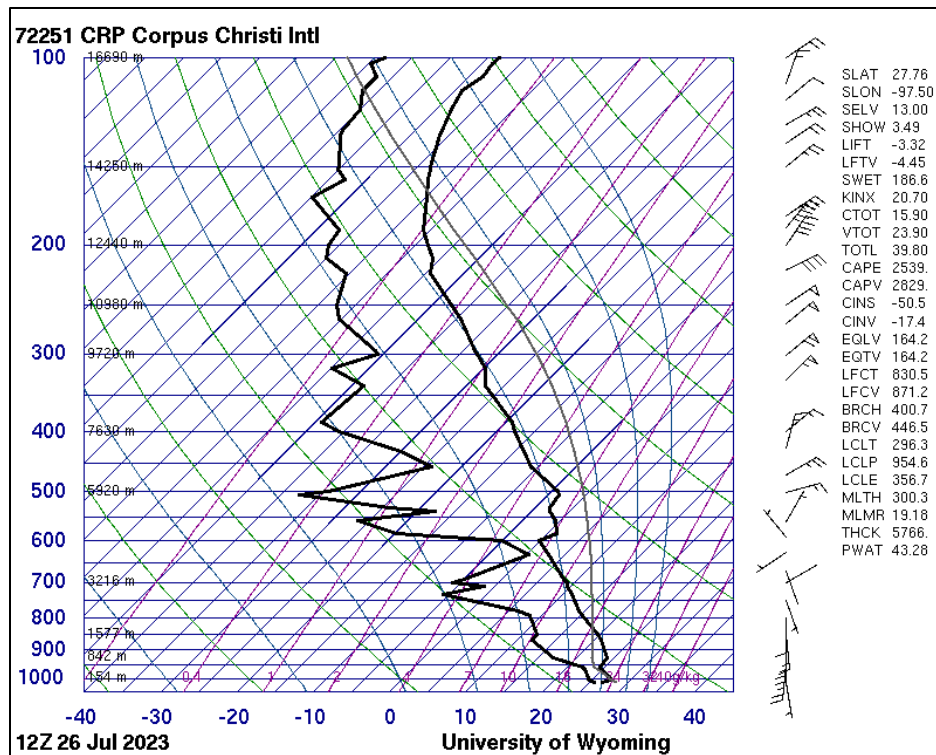


Figure A-55: Upper Air Sounding from Corpus Christi on July 26, 2023, at 7:00 a.m. local time



Figure A-56: NOAA HMS Smoke Layer Map for July 26, 2023

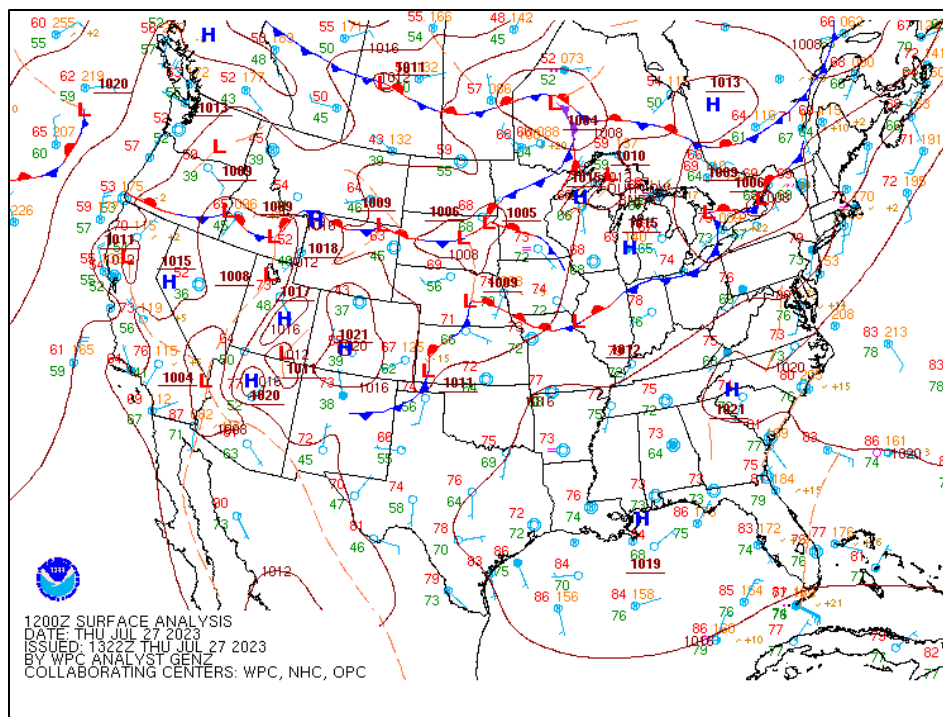


Figure A-57: Surface Analysis Map on July 27, 2023, at 7:00 a.m. local time

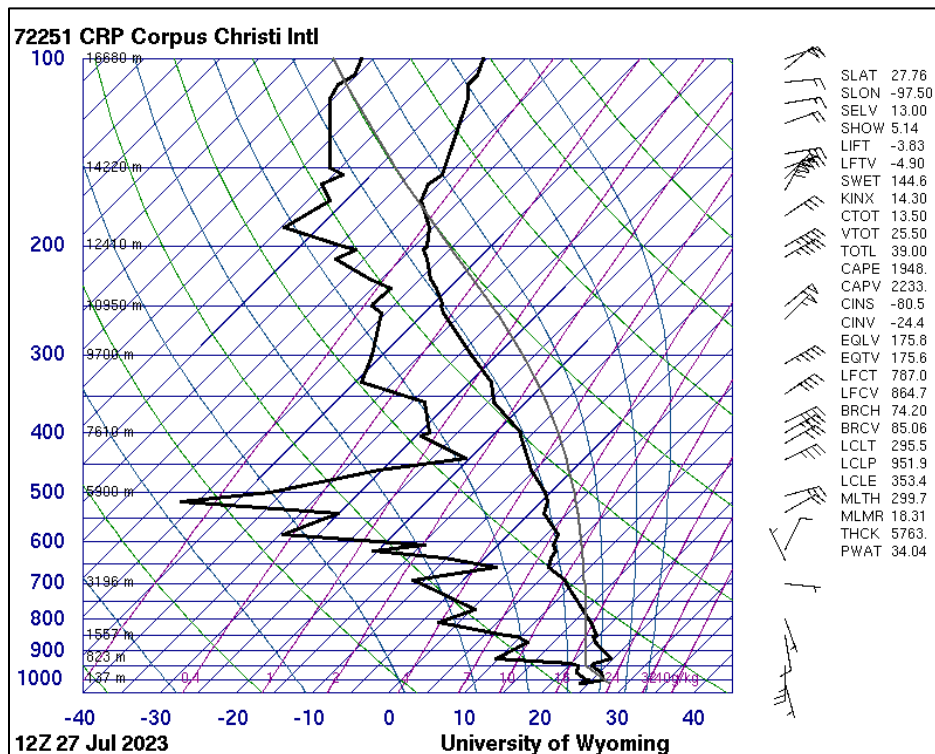


Figure A-58: Upper Air Sounding from Corpus Christi on July 27, 2023, at 7:00 a.m. local time

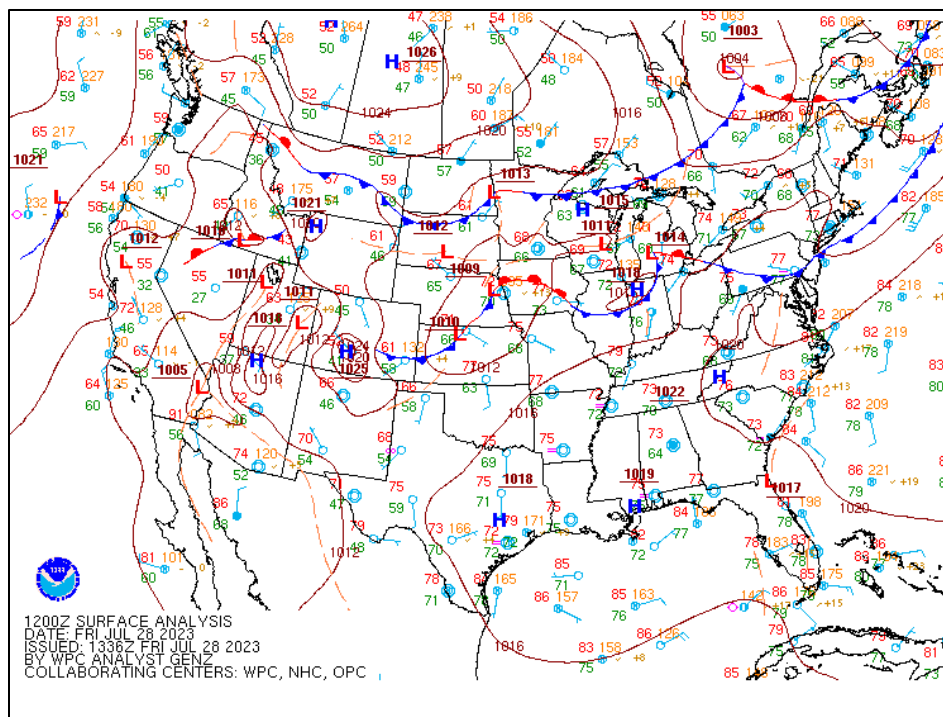


Figure A-59: Surface Analysis Map on July 28, 2023, at 7:00 a.m. local time

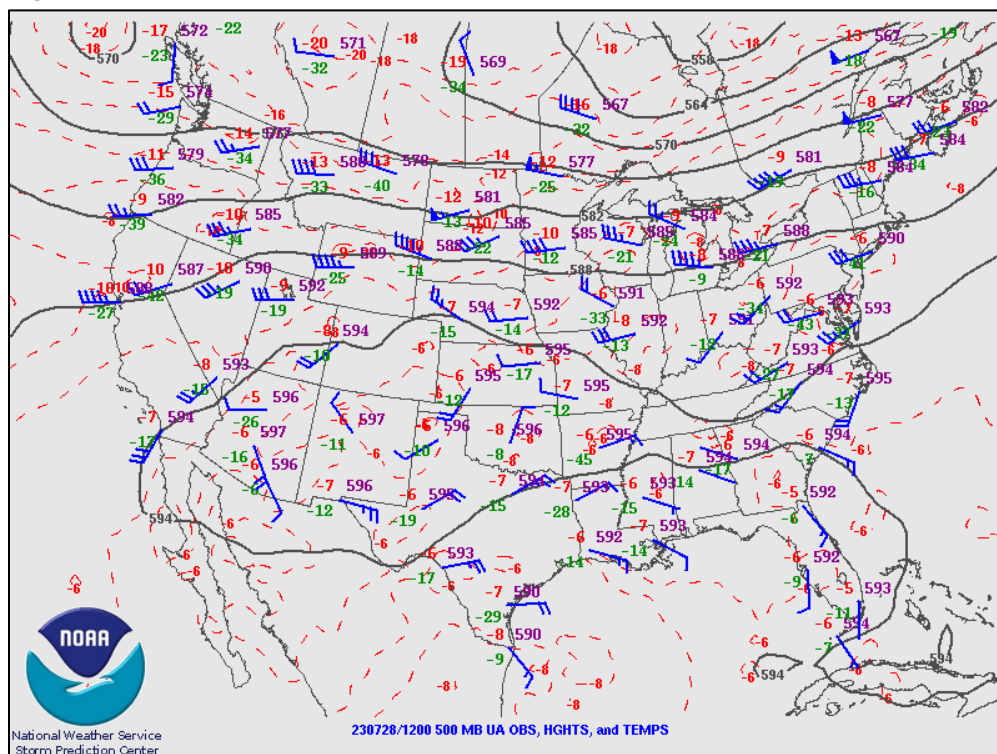


Figure A-60: 500 mb Height Map on July 28, 2023, at 7:00 a.m. local time

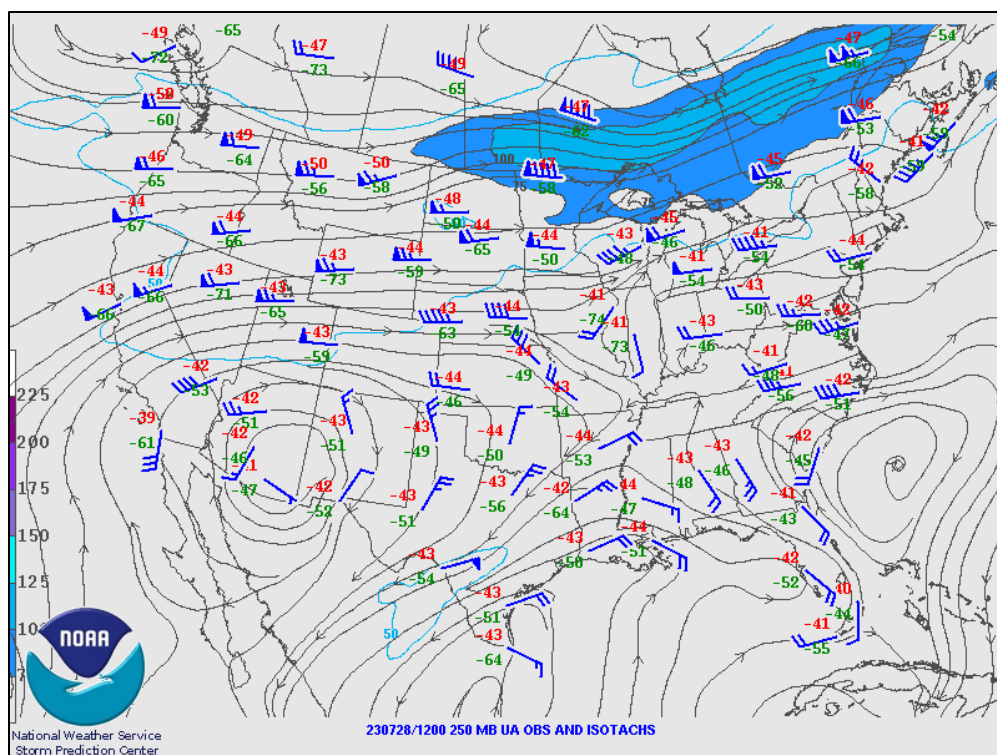


Figure A-61: 250 mb Height Map on July 28, 2023, at 7:00 a.m. local time

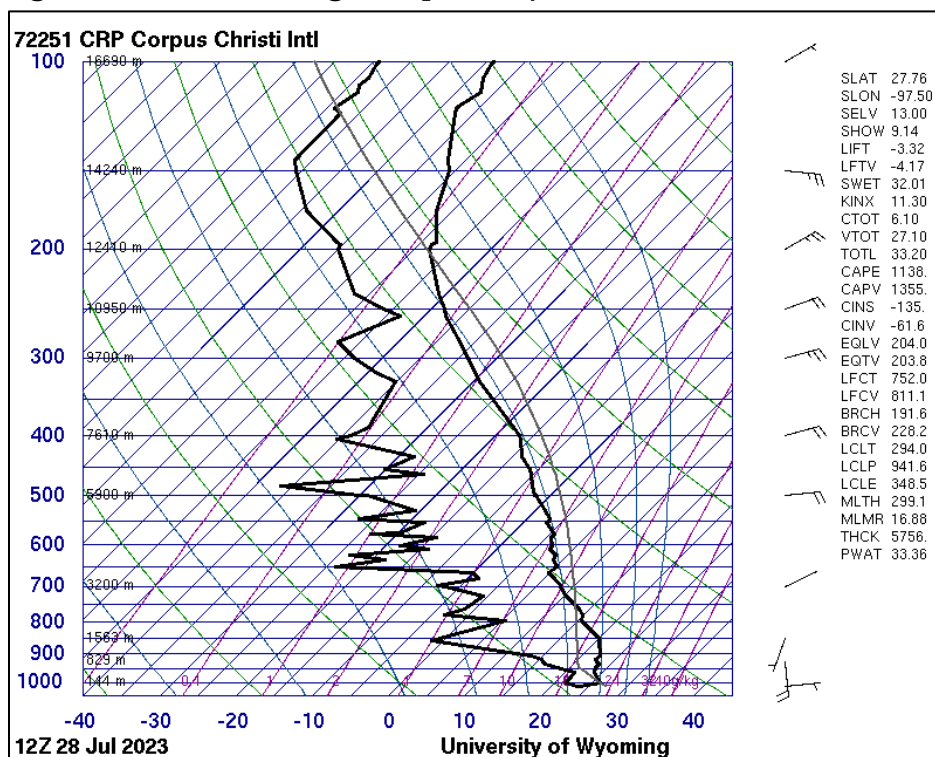


Figure A-62: Upper Air Sounding from Corpus Christi on July 28, 2023, at 7:00 a.m. local time

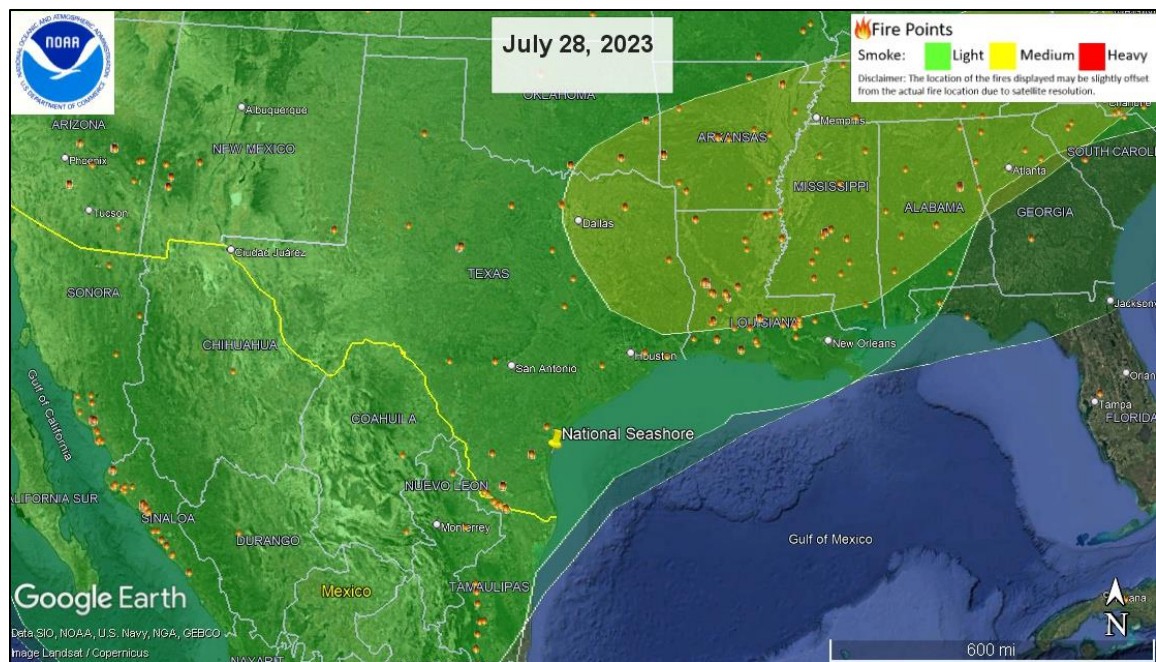


Figure A-63: NOAA HMS Smoke Layer Map for July 28, 2023