

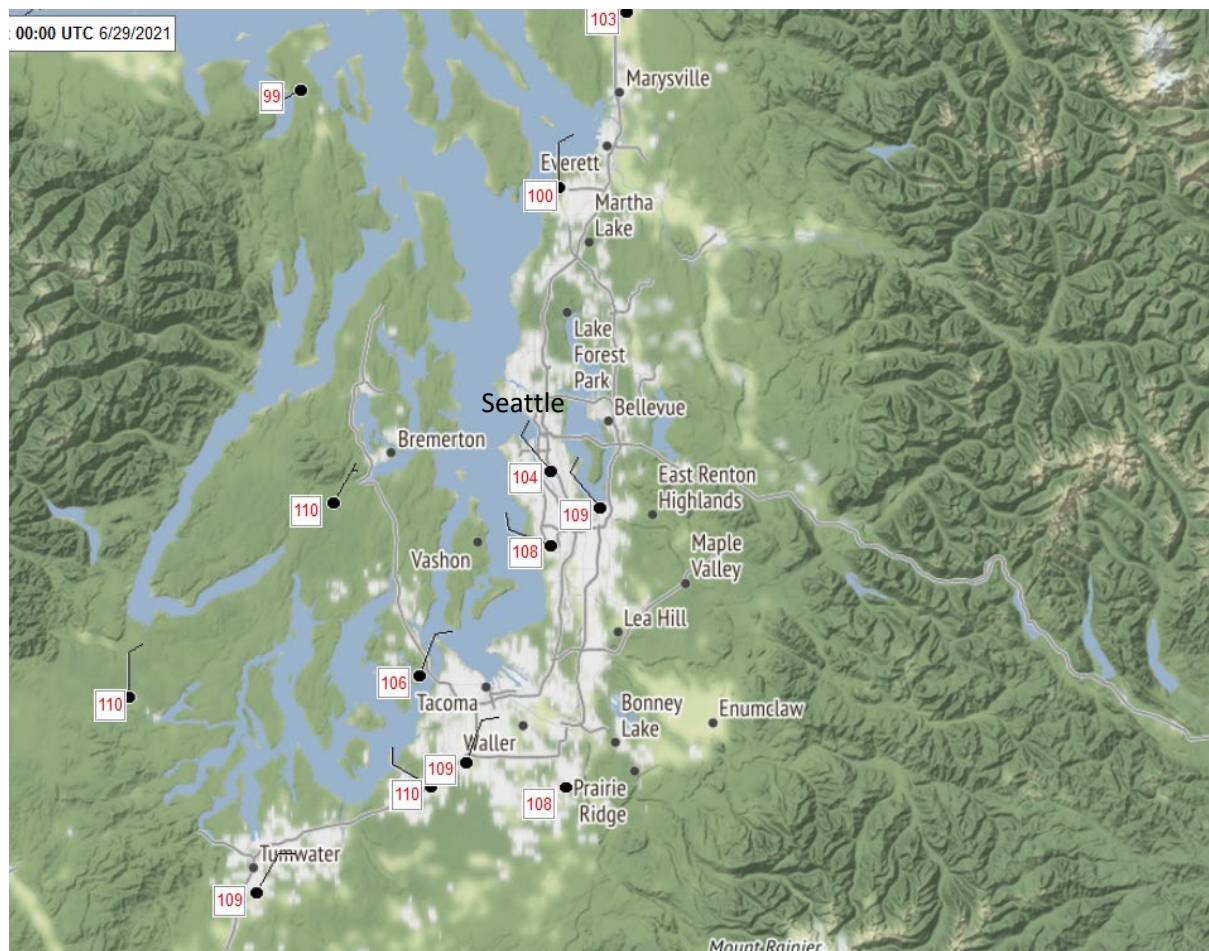


Figure S1. Surface observations from the Seattle, WA area at 00 UTC 29 June 2021. Temperatures in degrees Fahrenheit, winds are plotted with conventional symbols. Data source: Mesowest website: <https://mesowest.utah.edu/>

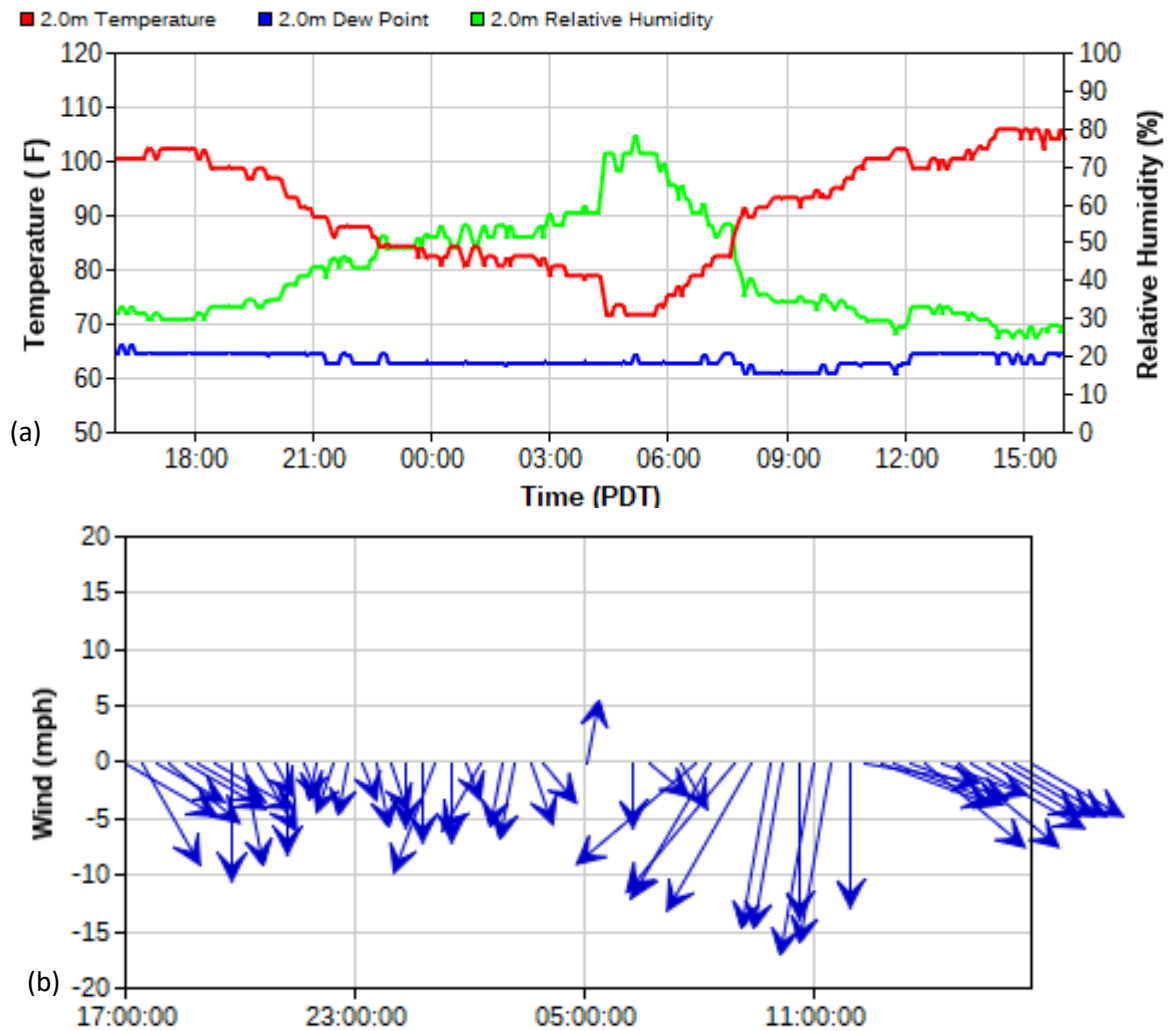


Figure S2. Time series of meteorological variables for Seattle-Tacoma Airport on 29 June 2021: (a) temperature (red curve, left axis), dew point temperature (blue curve, left axis), and relative humidity (green curve, right axis) from 15:00 PDT 28 June through 16:00 PDT 29 June, 2021. (b) Time series of wind vectors from 17:00 PDT 28 June through 19:00 PDT 29 June. Data source MesoWest website <https://mesowest.utah.edu/>.

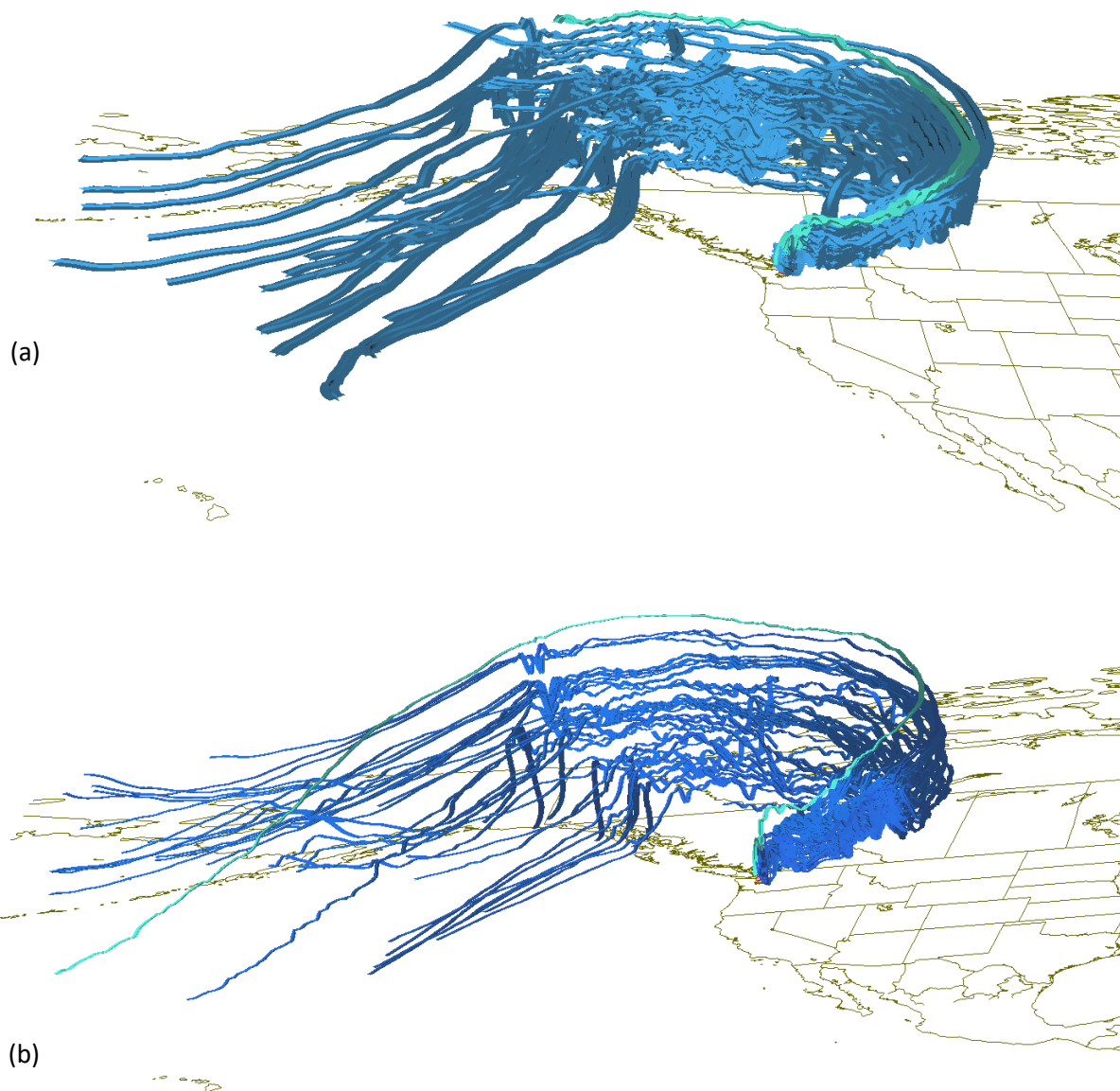


Figure S3. Three-dimensional perspective views of 6-day backward air trajectories from 00 UTC 29 June 2021 at the 950-hPa level over the Puget Sound area. (a) Data source is present-day WRF simulation, (b) source is end-of-century WRF simulation.