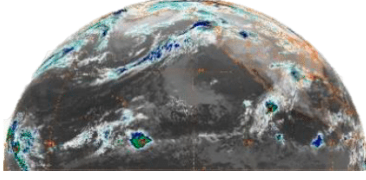
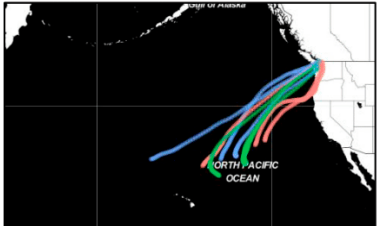
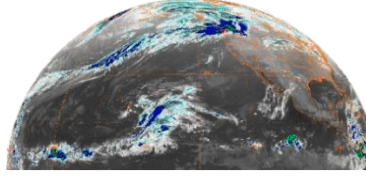
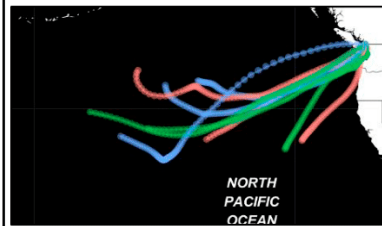
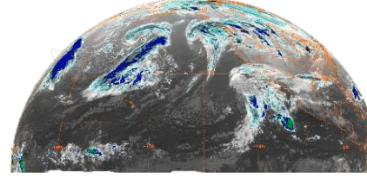
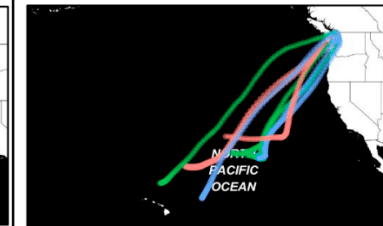
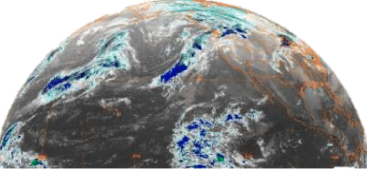
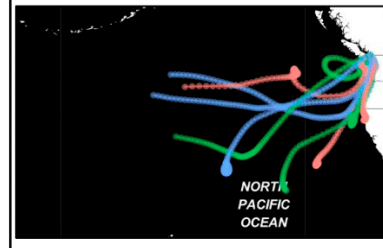
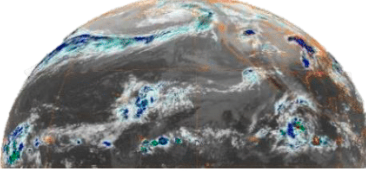
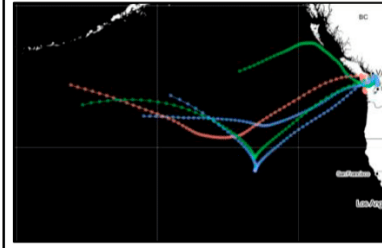
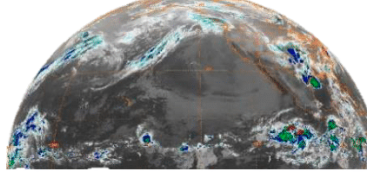
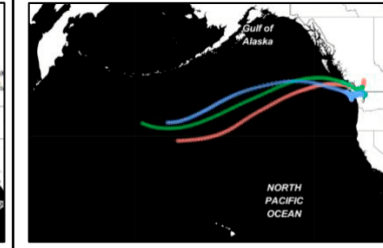
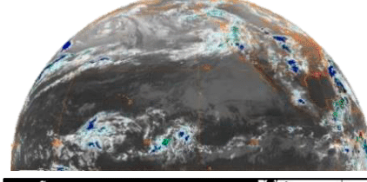
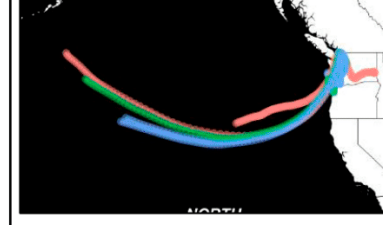
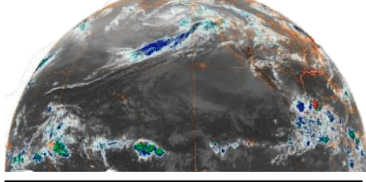

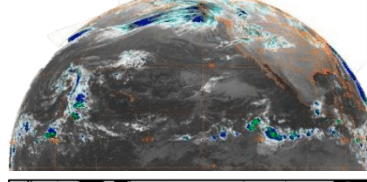
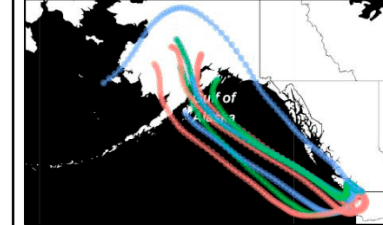


Supplementary Material

Table S1. Satellite Imagery, Trajectory Models, and Isotopic Composition of Sampled AR Events

  11/28/2021 $-8.7\text{‰ } \delta^{18}\text{O}$, $-53\text{‰ } \delta^2\text{H}$ 257.2 kg/m/s, 32.2 mm, 7.6°C	  11/30/2021 $-11.8\text{‰ } \delta^{18}\text{O}$, $-82\text{‰ } \delta^2\text{H}$ 456.5 kg/m/s, 48.8 mm, 10.4°C	  1/12/2022 $-13\text{‰ } \delta^{18}\text{O}$, $-93\text{‰ } \delta^2\text{H}$ 493.4 kg/m/s, 63.8 mm, 7.3°C
  3/14/2022 $-10.54\text{‰ } \delta^{18}\text{O}$, $-77.94\text{‰ } \delta^2\text{H}$ 242.0 kg/m/s, 43.5 mm, 6.5°C	  5/4/2022 $-11.42\text{‰ } \delta^{18}\text{O}$, $-85.37\text{‰ } \delta^2\text{H}$ 273.0 kg/m/s, 3.4 mm, 10.8°C	  5/25/2022 $-7.2\text{‰ } \delta^{18}\text{O}$, $-56.84\text{‰ } \delta^2\text{H}$ 215.0 kg/m/s, 1.3 mm, 13°C
  6/5/2022 $-14.13\text{‰ } \delta^{18}\text{O}$, $-113.32\text{‰ } \delta^2\text{H}$ 284.0 kg/m/s, 6.2 mm, 17.4°C	  6/9/2022 $-15.29\text{‰ } \delta^{18}\text{O}$, $-120.1\text{‰ } \delta^2\text{H}$ 262.2 kg/m/s, 9.7 mm, 13.4°C	  10/26/2022 $-8.45\text{‰ } \delta^{18}\text{O}$, $-54.28\text{‰ } \delta^2\text{H}$ 119.7 kg/m/s, 17.5 mm, 8.2°C

