

SERC Vessel Report for 17 July, 2017:

Left SERC in Edgewater, MD at 1324 UTC. Cruised south to CBBT, passing ground site ~1930 UTC. Note: Gas generator failure at approximately 1935 UTC, leading to communications issues with O₃ monitor. Began manually recording 5 minute averaged O₃ at 2015 UTC until SERC vessel port at Virginia Institute of Marine Sciences (VIMS) in Gloucester Point, VA at 2150 UTC.

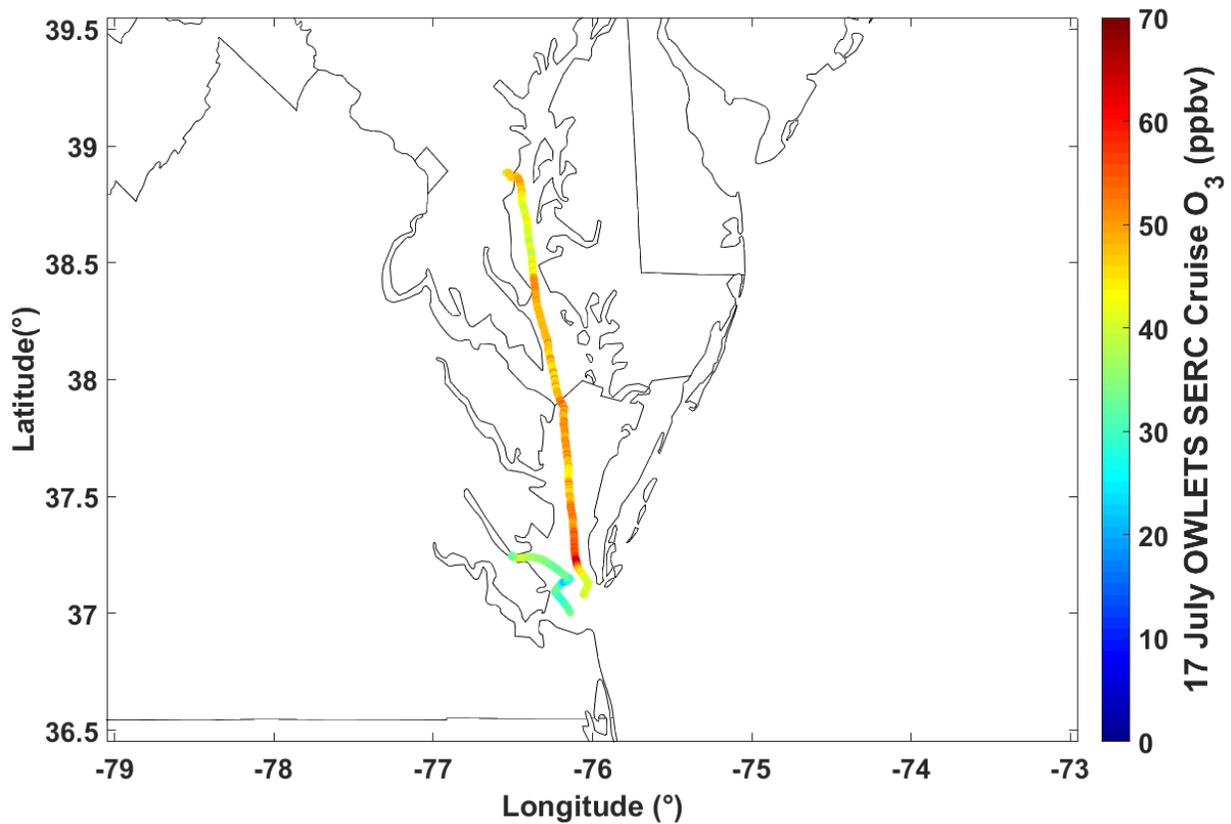


Figure 1. SERC Vessel O₃ mixing ratios from 17 July, 2017. Max O₃ ~66 ppbv north of CBBT site at 1850 UTC.

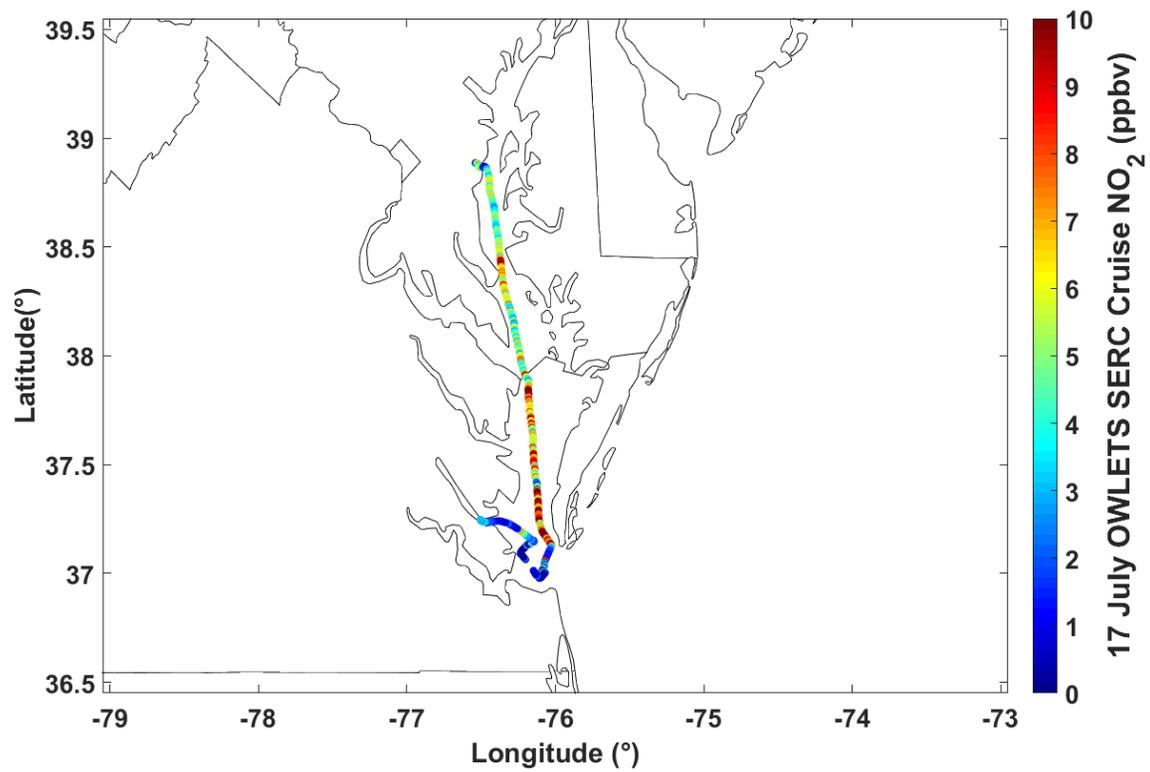


Figure 2. SERC Vessel NO₂ mixing ratios from 17 July, 2017.

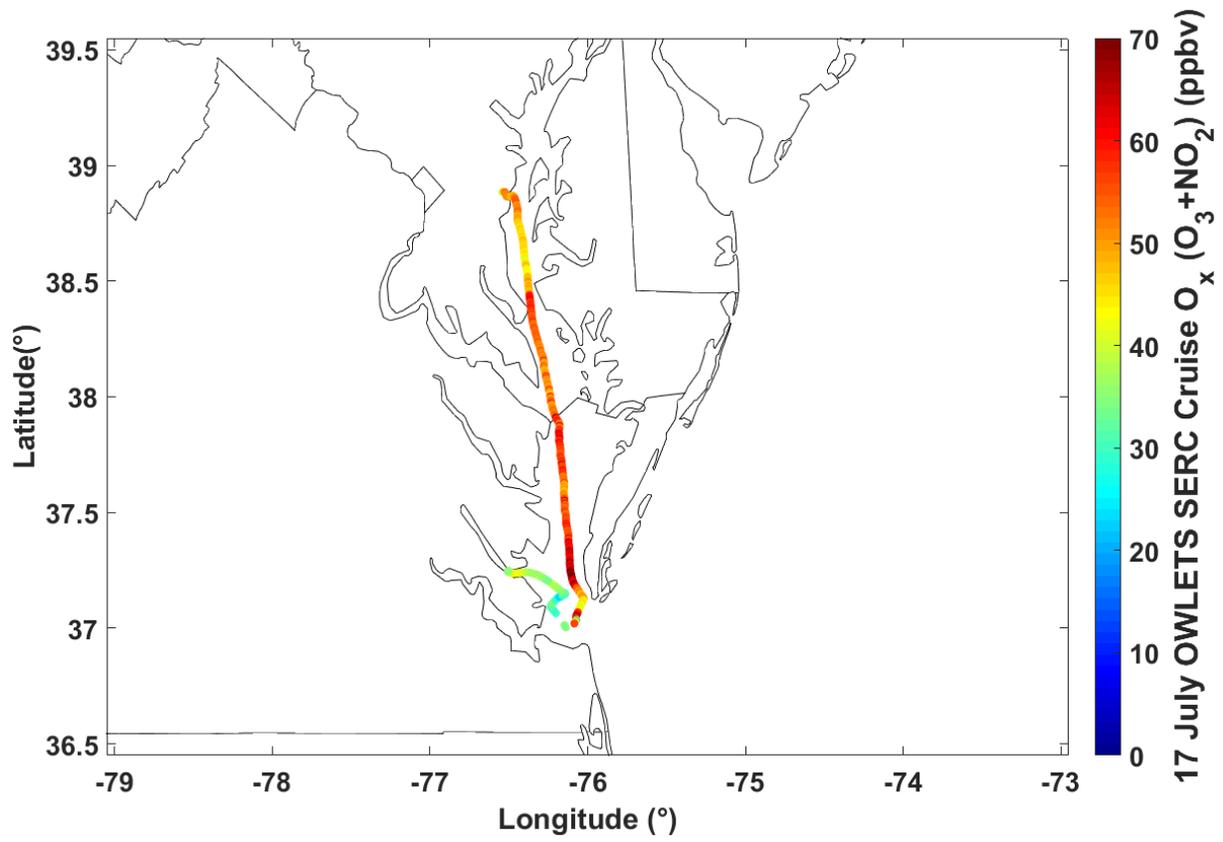


Figure 3. SERC Vessel O_x ($O_3 + NO_2$) mixing ratios from 17 July, 2017.