Figure S1: Time plots of hourly average and concentration distribution of H₂, CO, CHCl₃, CH₄, N₂O, CCl₄, CFC-12, O₃ and Hg, measured at Mace Head station from January 2013 to March 2018. *Unity for the above mentioned species are ppb, ppb, ppt, ppb, ppt, ppt, ppb and ng m⁻³ respectively.
Figure S2: Wind seasonality (speed and direction) at Mace Head from 2013 to 2018, showing stronger winds during winter (December to March) compared to summer (June to September).

Figure S3: Polar plots for the CO, CFC\textsubscript{12} and CCl\textsubscript{4} concentration measured at Mace Head station from 2013 to February 2018 as a function of wind direction (°) and speed (m s\textsuperscript{-1}).