Figure S5: Assessment of potential systematic biases on retrievals. a) Basin-desert dP (retrieved – a priori surface pressure, Pa) vs. basin-desert \(X_{CO2}\) enhancement. b) Basin-desert signal_o2 (A-band spectral radiance, W cm\(^{-2}\) sr\(^{-1}\) (cm\(^{-1}\))\(^{-1}\) \times 10\(^7\)) vs. basin-desert \(X_{CO2}\) enhancement. c) Basin-desert aod (aerosol optical depth) vs. basin-desert \(X_{CO2}\) enhancement. d) Basin-desert blended_albedo vs. basin-desert \(X_{CO2}\) enhancement. The lack of correlation indicates none of these parameters are responsible for the observed basin enhancement.