remote sensing

MDPI

Article

Supplementary Materials: Analysis of Four Years of Global XCO_2 Anomalies as Seen by Orbiting Carbon Observatory-2

Janne Hakkarainen [1,*], Iolanda Ialongo [1], Shamil Maksyutov [2] and David Crisp [3]

Received: 27 February 2019 ; Accepted: 4 April 2019 ; Published: 9 April 2019

check for updates

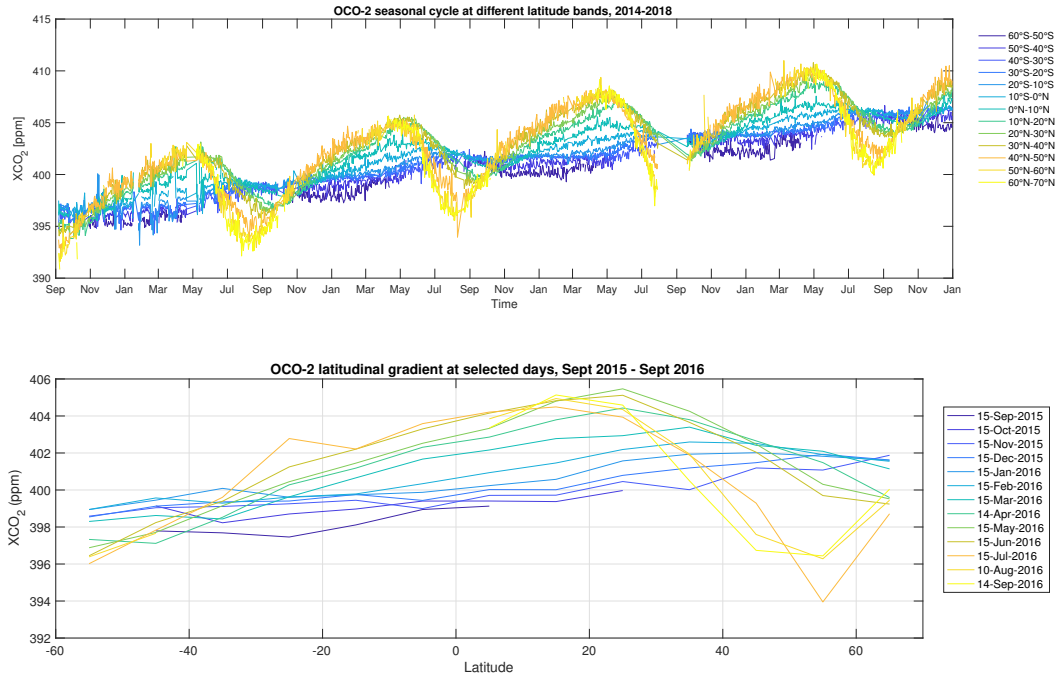

Figure 1. OCO-2 seasonal cycle at 10 degree latitude bands (top panel) and latitudinal gradient at selected days between September 2015 and September 2016 (bottom panel). See Fig. 2 for daily background.

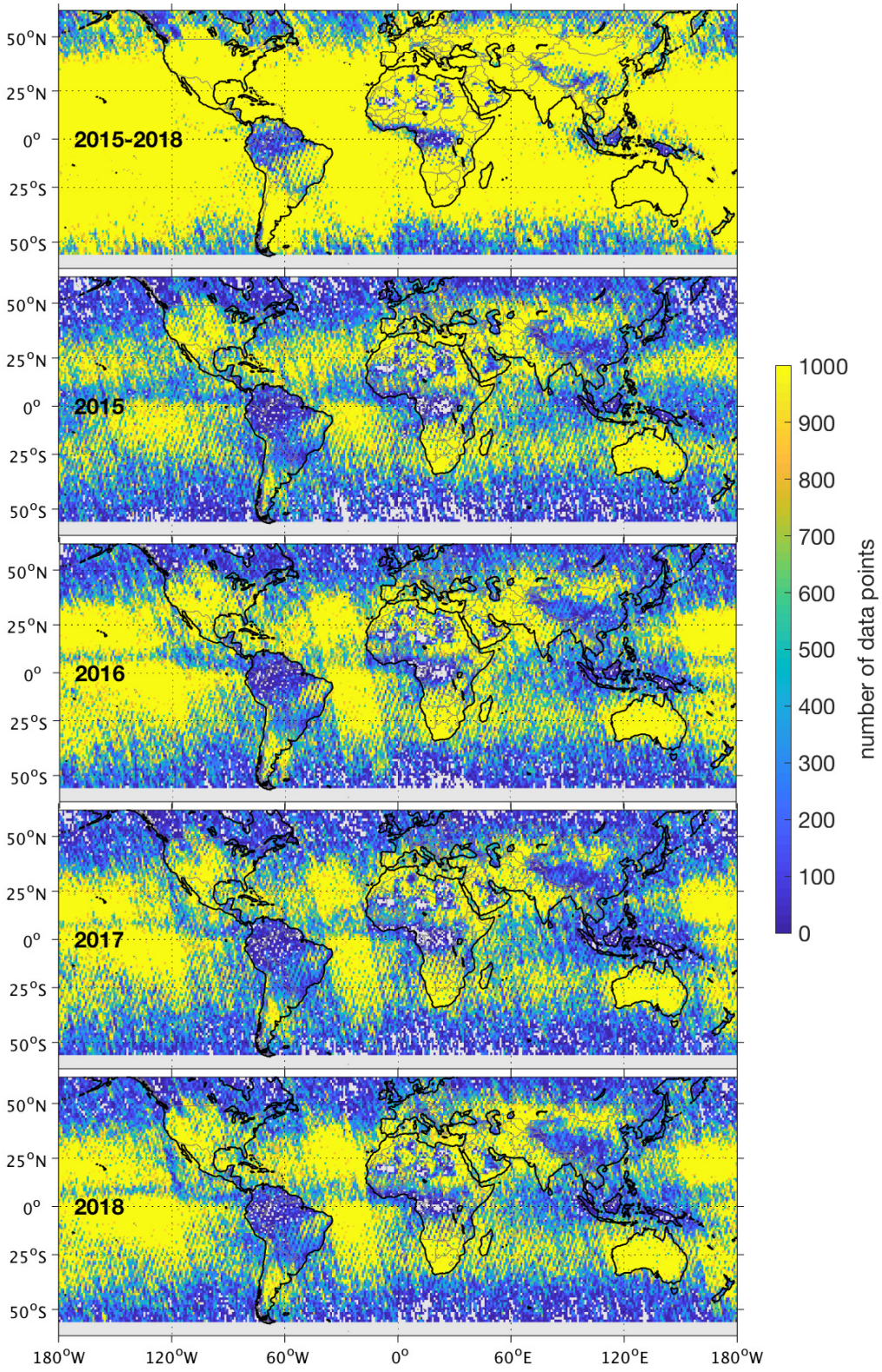

Figure 2. Number of data points on each 1° × 1° grid cell.

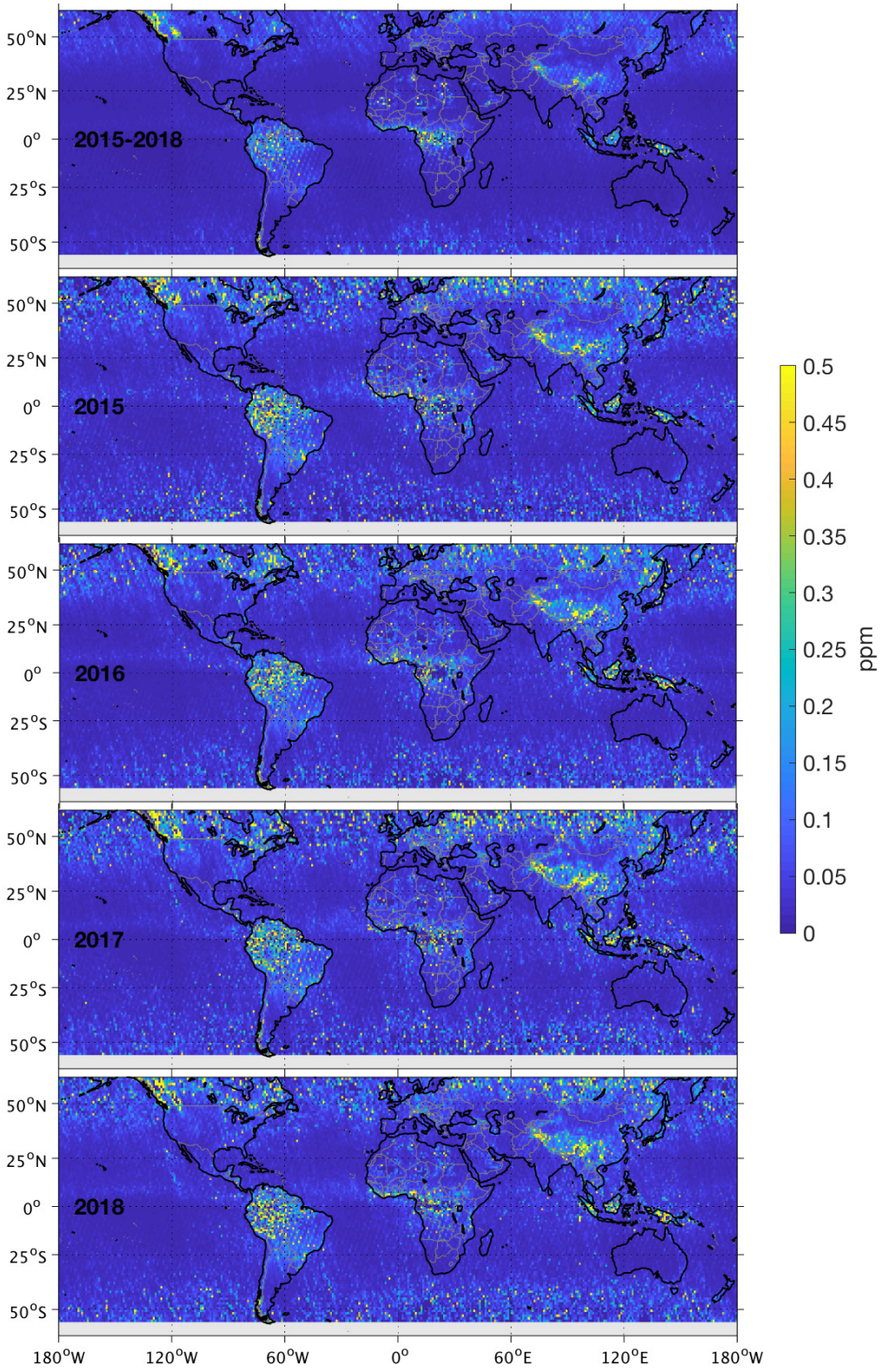

Figure 3. Standard error of the mean on each 1° × 1° grid cell.

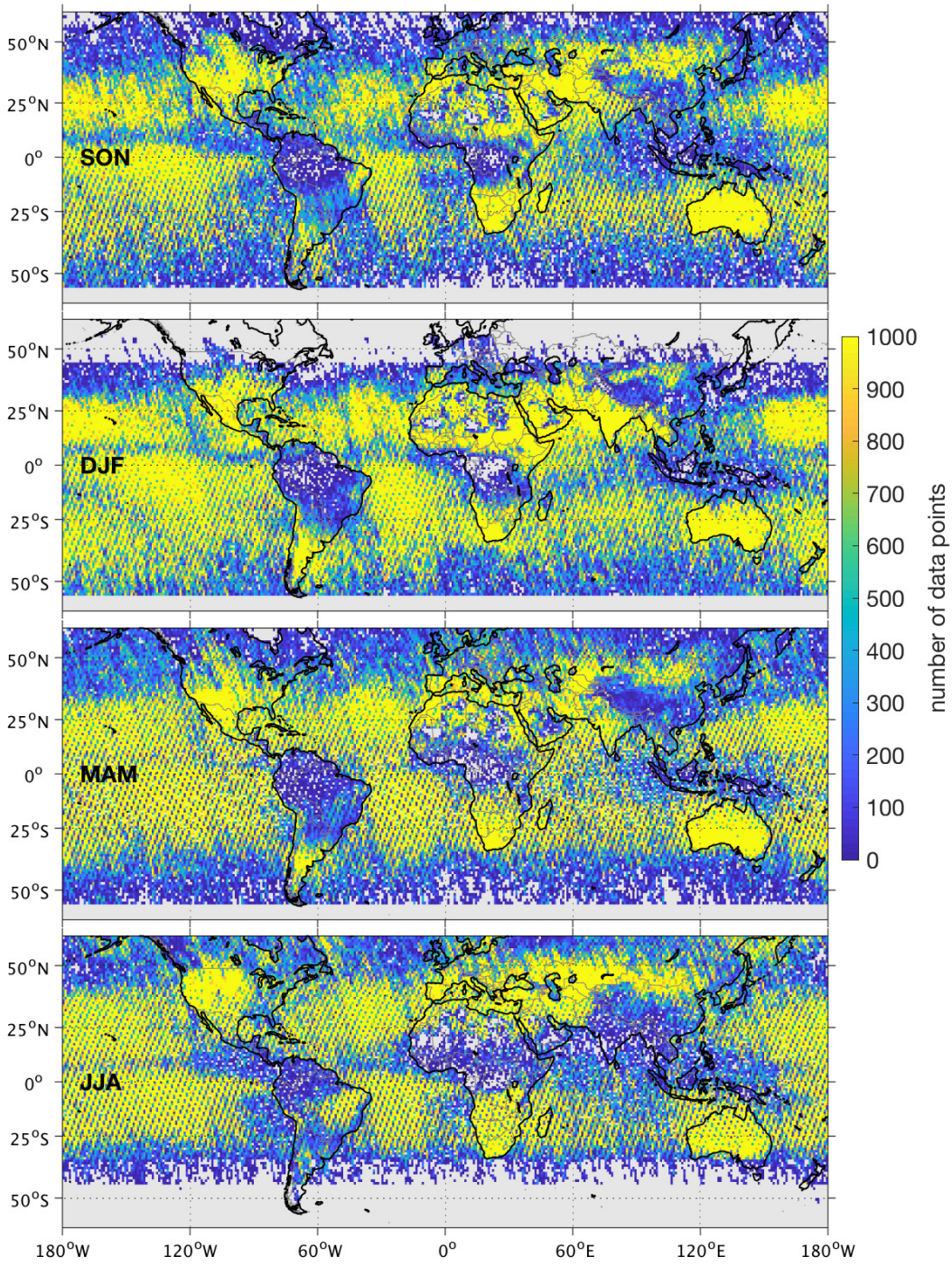

Figure 4. Number of data points on each 1° × 1° grid cell at each season from September 2014 to August 2018.

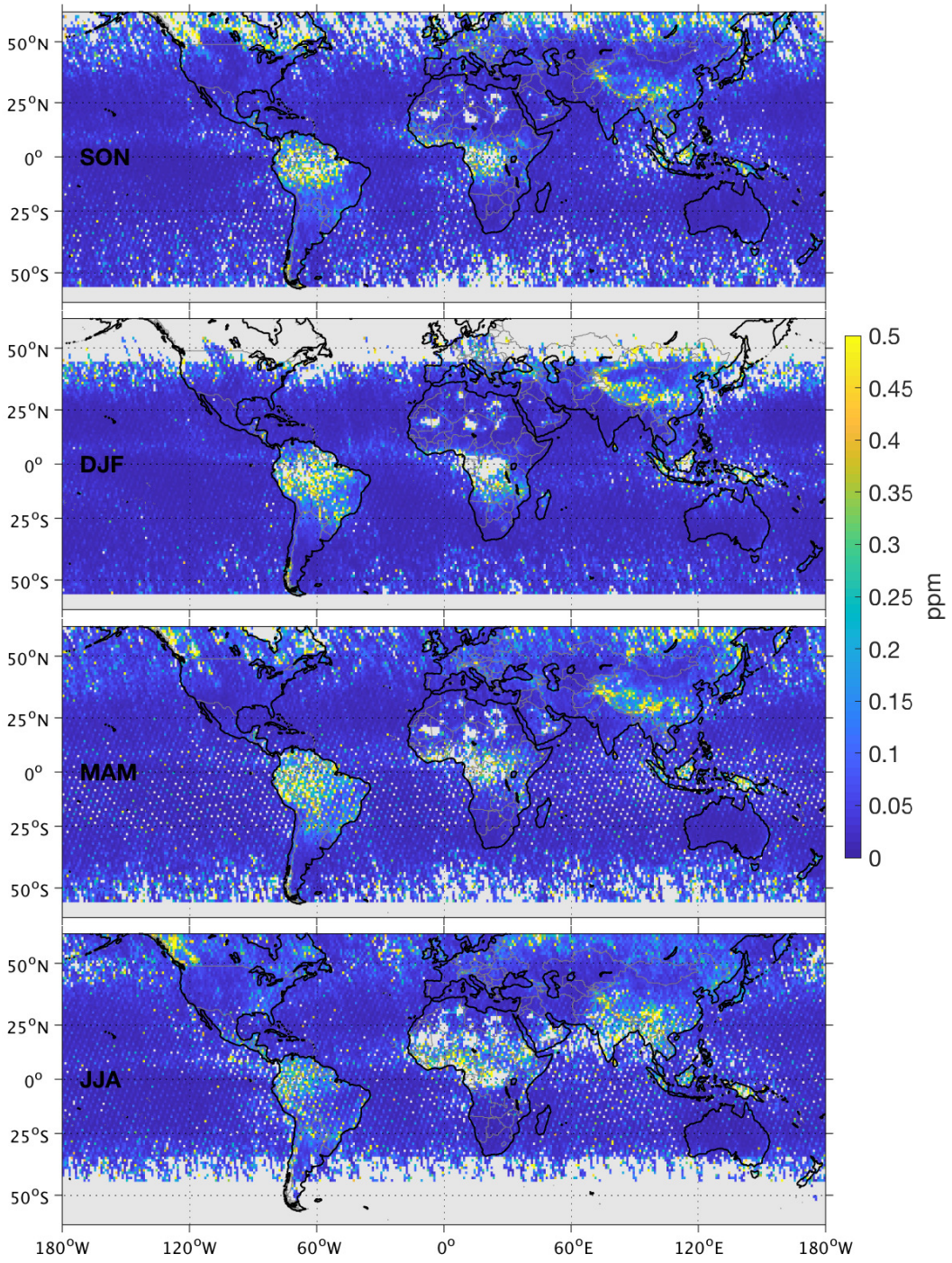

Figure 5. Standard error of the mean for the seasonal XCO_2 anomalies 2014–2018.

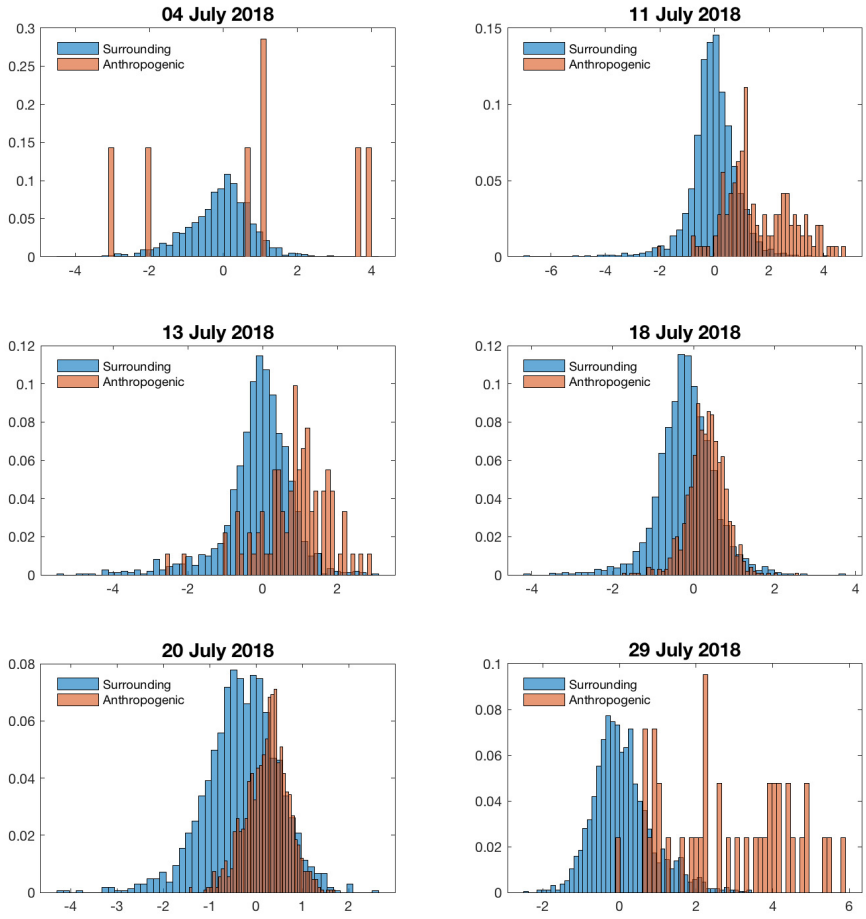

Figure 6. Histograms of XCO_2 anomalies inside and outside the NO_2 plumes. The anthropogenic and surrounding categories are discriminated according to the collocated tropospheric NO_2 column values (larger or smaller than 5×10^{15} molec./cm^2, respectively).