

Dear Editor,

We considered all the technical corrections suggested, which are the following:

line 31: "...for the correct reasons in the hmF2 case."

Done.

line 34: "...and of experimental trends only in the foF2 case."

Done.

line 48: "...the limited time span and sparse spatial ..."

Done.

line 120: "...and Lyman- $\alpha$ , for example, ..."

Done.

line 204: "...being efficiently described by the 12-month..."

Done.

line 206: "...they are all more alike when the time series compared consist of annual means, rather than monthly or daily means. This is because at these shorter timescales, ..."

Done.

line 206: "... averages essentially to zero."

Done.

line 216: "...are 7.93 MHz and 308.6 km, similar to the Table 2 values."

Done.

line 241: "...as well as the spatial variation of the trends."

Done.

line 263: "It is important to remark that the trends reported by Solomon et al. (2018) may have resulted in lower values because they ran the simulation."

Done.

line 264: "This would have neglected part of the trend..."

Done.

line 311: "...where we concluded that both F30 and MgII are equally appropriate, but without being..."

Done.

line 340: "An additional topic deserving further research is the ..."

Done.

line 341: "...but we consider it important ..."

Done.

line 342: "...by Crossen and Richmond (2012), who analyzed..."

Done.

line 349: "Considering how the foF2 and hmF2..."

Done.

line 353: "...like the greenhouse gas concentration increases..."

Done.

line 355: "Hence, the foF2 trends obtained using IRI-Plas model values can be, to a first approximation, attributed..."

Done.

line 362: "...result from the Rz overall..."

Done.

line 364: "...due to greenhouse gas concentration increases."

Done.

line 365: "This is due to the coincidence that both hmF2 from IRI, and hmF2 from measurements..."

Done.

line 366: "...it is the Rz overall downward trend..."

Done.

line 368: "...greenhouse gases during the last decades."

Done.

line 370: "Smaller Rz values since ~2001 have been ..."

Done.

line 386: "...allowing it to be run on modest..."

Done.

line 397: "...we conclude that the IRI model..."

Done.