

We thank the Editor for their comments and have made the proposed corrections. Please see the marked up revised manuscript

*Editor's comments on the revised "Using a network of temperature lidars to identify temperature biases in the upper stratosphere in ECMWF reanalyses" by Graeme Marlton et al.*

*General point: please be careful to write in a consistent tense throughout – you mix past and present tense freely in the manuscript. I recommend using the past tense when referring to agreement between datasets at dates in the past.*

The Manuscript has been read and tenses have been made more consistent.

The following corrections have been implemented:

*p.4 l.17. 'The first' needs to be followed by 'the second'*

*p.6 l.20 Surely the evolution of IFS is due to R+D, not the other way round*

*p.6 l.28 'significantly affected by'*

*p.7 l.3 'To ensure that the comparison is accurate, the lidar's geometric height coordinates were first converted to geopotential height'*

*p.7 l.7 'Vertical resolution of'*

*p.7 l.13 The sentence 'ERA-interim at the points studied here has a cold bias in the region of -3 to -4 K.' is completely inconsistent with fig.2 and should be deleted.*

*p.7 l.21. 'Both the warm bias near the model top and the cold bias between 1 hPa and 10 hPa are present throughout the year, with the cold bias being strongest at all sites between November and February.'*

*p.8 l.19 'could explain' would be more accurate. Also would 'difference in the sign of the results' not be better than 'polarity', which is something I associate with magnets?*

*p.8 l.30 'vertical resolution of ERA5'*

*p.9 l.16 'and 10 hPa, but not as good as that with the lidar'*

*p.9 l.21 'of 3 K, while at 1 hPa'*

*p.9 l.35 original text is better*

*p.10 l.25 delete 'that the introduction of COSMIC GPSRO showed'*

*p.10 l.29 'since' rather than 'given'; 'in 1998' rather than '19998'*

*p.11 l.14 'affected' not 'may have an affect on'; 'have increased' not 'increase'*

*p.11 l.23 Replace 'Given ... height' with 'The abrupt and consistent reduction of the warm bias at all sites during 1998 corresponded with the advent of NOAA-15 AMSU-A data, suggesting that assimilation of this data stream caused the reduced bias.'*

*p.11 l.26 'was most dominant'*

*p.11 l.27 'caused' rather than 'could be the reason for'*

*p.12 l.3 'was reduced'*

*p.12 l.6 'appears to have reduced the'*

*p.12 l.19 'comparisons between ERA'*

*p.12 l.24 'was within'*

*p.12 l.33 what does the word 'saturate' mean here? Please find a more suitable alternative*

*p.13 l.4 'effect' not 'affect'*

*p.13 l.14 'reference with which to compare other reanalyses'*

*p.13 l.23 'have made high vertical resolution measurements for nearly 30 years'*