

Interactive comment on “Gap filling and noise reduction of unevenly sampled data by means of the Lomb-Scargle periodogram” by K. Hocke and N. Kämpfer

Anonymous Referee #2

Received and published: 29 March 2008

Review of paper: Gap filling and noise reduction of unevenly sampled data by means of the Lomb-Scargle periodogram

This paper presents us a good method to deal with the unevenly sampled data, which are common in the observations of geosciences. In some sense the reconstruction method is very useful to fill the data gap. I would suggest the paper to be accepted for publication after some moderate revisions. Comments: 1. P4068-line 18: 8220; It is better to start the time vector with $t_1=0$, why? Is the set " $t_1=0$ " just convenient for calculation? 2. What a gap length is the maximum when we apply the reconstruction method to investigate the waves with a certain period or a period range? The author

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best give some advice on the appropriate proportion between the gap length and the interested period. If missing data is too many in number, some added information which do not belong to observed data possibly are included in the reconstructed data.

The whole paper is well written and informative.

Interactive comment on Atmos. Chem. Phys. Discuss., 8, 4603, 2008.

ACPD

8, S1057–S1058, 2008

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