

Dear Benjamin Strain

30 September 2015

Your manuscript "Inter-decadal changes in intensity of the Oxygen Minimum Zone off Concepcion, Chile (~36°S) over the last century" can be published after some minor revisions mentioned by the two reviewers.

One reviewer mentioned:

Four minor stylistic corrections remain to be made in this much-improved revised version of this interesting and elegant contribution:

Page 6007, line 8 - change "uncover" to "identified"

Page 6019, line 20 - change to read "observed increases of sterol and GDGT concentrations"

Page 6020, line 11 - change "correlation" to "correlations"

Page 6021, line 3 - change to read "and 1935, and they are decoupled"

The other reviewer had two more comments, which you should consider for the final version of your manuscript text:

Page 6006, line 22/page 6019, line 4: 'Euxinic conditions' exclusively refers to the water column (not to the sediments).

Table 2: I assume that all parameters have the same amount of observations. Why is the correlation between some pairs of parameters with the same Spearman Rho significant ( $p < 0.05$ ) while others are not? (compare e.g. MAGEs/Uxs and MAGEs/sterols).

Best regards

Lothar Stramma