

Interactive comment on “Spectrophotometric high-precision seawater pH determination for use in underway measuring systems” by S. Aßmann et al.

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Received and published: 6 July 2011

Thank you for your comment.

P1342: We used the total scale because it is also used for the pH buffer (CRM) as well as for the applied pK values. It should be better to simply mention that we used the total scale (because of the reasons above) instead of saying that it can than be compared more easily.

P1350: Following your advice we will add data to compare the bench-top spectrometer to the underway system using a larger batch of self made TRIS buffer. We will post the data here first.

C375

P1351: You are right. As the second CO₂ system parameter we used the alkalinity estimated from salinity. This will be integrated in the final revision.

P1351: For more reliable pH values of the glass electrode and to avoid confusion due to the conversion using estimated fH values, we will leave the glass electrode at NBS scale and plot these values along with total scale pH values of the underway system at in-situ temperature.

The unit psu will be removed.

Interactive comment on Ocean Sci. Discuss., 8, 1339, 2011.