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Interactive comment on "Summer upwelling at the Boknis Eck time series station (1982 to 2012) – a combined glider and wind data analysis" *by* J. Karstensen et al.

Anonymous Referee #1

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Conditions and mechanism of upwelling occurring at the Baltic Sea has not been fully recognized yet, so the study concerning single summer upwelling events at the south-western Belt Sea seems to be highly noteworthy. Authors use varied data to characterize the two summer upwelling events which occurred close to the Boknis Eck in July 2010. Using data provided by the underwater glider is most innovating and it enables to research circumstances before and after upwelling in multiple dimensions. Upwelling conditions are comprehensively characterized concerning the water temperature, salinity, ventilation (oxygen) and chlorophyll concentration. Furthermore, authors refer upwelling events to the wind speed and direction, using hourly observational data from two neighboring meteorological stations. I find the scientific results and conclusions

included in the text clearly presented and I think the figures are clear and good quality. The paper is properly structured. I did not notice any technical mistakes in the text and figures. I would recommend the manuscript to be published in the Biogeosciences as it is.

Interactive comment on Biogeosciences Discuss., 11, 2759, 2014.