

Interactive comment on “Evaluating the atmospheric drivers leading to the December Flood 2014 in Schleswig-Holstein, Germany” by Nils H. Schade

Anonymous Referee #1

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The author presents a study to estimate the atmospheric drivers of December flood 2014 in Schleswig–Holstein. Different types of classification methods and indices' combination (i.e. antecedent precipitation index & maximum 3 –day precipitation sum) as well as trends assessments were used to analyze spatial and temporal variability of flood events. The applied methodology seems to be technically sound.

General comments. The paper lacks a discussion on the basis and consistency of the chosen indices. There is a lack of hydrological information about the flood. References provided are not the best way to understand hydrological behavior during 21-23 of December 2014 in general. Conclusions present not relevant information about flood aftermath. A large part of the conclusion is devoted to the future plans. The language

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sometimes is not fluent and the writing should be checked. These are comments (minor), which needs to be addressed before it is accepted for publication: P1L28 What is the reason for MIB to be mentioned? P1L29 Maybe it's better to use calendar dates P2L13 Not whole Europe, may be Northern Europe P6L15 Maybe it's better to provide some assessments of the REGNIE performing goodness then to refer on the figures of the reports P6L26 The end of the sentence “only that not differentiated” is unclear. What kind of differentiation? P7L6 To name a source of information P8L1 A verb (may be “need”) is missing P8L3 “affecting the drainage of affected catchments” . Maybe it's better to re-write this part of the sentence to avoid unclearness. P8L20 Unmistakably is very strong form of certainty. May be it's better to use another word when talking about the future. P9L34 References proving additional meltwater runoff in the future are needed Maps should contain major catchment boundaries (including Kiel channel watershed)

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