

Earth Syst. Sci. Data Discuss., referee comment RC2
<https://doi.org/10.5194/essd-2021-390-RC2>, 2022
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Comment on **essd-2021-390**

Anonymous Referee #2

Referee comment on "Last Interglacial sea-level data points from Northwest Europe" by Kim M. Cohen et al., Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2021-390-RC2>, 2022

The authors evaluate the published Last Interglacial sea-level data points along coastlines adjacent to North Sea and English Channel from northwestern Europe, and compile the Last Interglacial sea-level data set in detail. The authors also point out the importance of the NW Europe sea-level data set, which reflects MIS 6 ice sheet history, and the difficulties and suggestions for the further LIG sea-level researches in NW Europe (including the geochronology issues). Thus, this is a very valuable compilation of the Last Interglacial sea-level data.

I have two comments for this manuscript. Firstly, the RWLs and IRs for the sea-level indicators in section 3.2 needs to be well-defined in the paragraphs. I cannot fully understand how the RWLs and IRs of each indicator are decided in the 'In formula' paragraphs. Since these sea-level indicators are rare outside NW Europe, some figures and more detail information for these sea-level indicators are necessary. Secondly, there are lots of editing issues in this manuscript, including inconsistent word spellings and typos (listed below). These editing issues make this manuscript sloppy and cannot be read smoothly.

Some specific comments listed below:

Line 3: Department 'of' Physical Geography?

Line 16, 18: is it 'highstand', 'high stand', or 'high-stand'?

Line 25: 'morpho-stratigraphic' or 'morphostratigraphic'?

Line 41, 53, 287, 396, 924: 'palaeoenvironment' or 'paleoenvironment'?

Line 46, 435, 452, 454, 484, 668, 699, 700, 930: is it 'meter', 'decimeter', or 'metre', 'decimetre'?

Line 64, 139, 156, 435, 642, 697, 700, 728, 731, 733: are they 'center', 'depocenter', or 'centre', 'depocentre'?

Line 87, 180, 902, 925, 1050, 1212, 1219, 1250: are they 'MIS 3, MIS 5e, MIS 6, and MIS 7', or 'MIS-3, MIS-5e, MIS-6, and MIS-7'?

Line 95, 158, 159, 207, 296, 305, 325, 334, 342, 361, 555, 558, 569, 923, 931, 937, 947, 951, 954, 959: 'mollusc', 'mollusca', or 'molluscan'?

Line 151, 755, 773, 790, 836, 846, 1237, 1251, 1261: 'datapoints' or 'data points'?

Line 166-172: Follow the rule of the journal. Use lower case in figure captions (a-e) rather than initial characters (A-E).

Line 169 and 171: Eemian 'Highstand' or 'highstand'?

Line 207: what is 'resp.'?

Line 217: 'low stand' or 'lowstand'?

Line 296: 'Cyprina Clay' or 'Cyprina-Clay'?

Line 308: 'would be' or 'would-be'?

Line 391: the abbreviation of thermoluminescence (TL) and optically stimulated luminescence (OSL) before this line (e.g. line 80). Should it be mentioned in the earlier section?

Line 417: 'Chalk' or 'chalk'?

Line 457: Hijma and Cohen (2011; 2019); Peeters et al. (2016; 2019)

Line 463: 'HAT' is mentioned here first so please express it in full term.

Line 477: 'the' rather than 'The'.

Line 700: is there any reference for the rates of VLM?

Line 721: 'characterizing' or 'characterising'?

Line 786: 'RSL' or 'SLR'?

Line 1099: where is Fig. 7?

Line 1126 and 1131: 'litho-stratigraphic' or 'lithostratigraphic'?

Line 1202: 5*?

Line 1270: (!)?

Figure 1: 'depocenter' or 'depocentre'?

Figure 2: The citation is not consistent: Zagwijn-83, dM&dB 1973

Figure 4: several numbers on the figure are overlapped.

Table 1: editing issues such as 'w large oscillations' and 'Weichselia' and 'n'.

Table 2: 'MIS 6' or 'MIS-6'? 'Chalk' or 'chalk'?