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Interactive comment

Interactive comment on "Marine monitoring in Europe: is it adequate to address environmental threats and pressures?" by Suzanne J. Painting et al.

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Author response: We would like to thank the reviewers for their comments and the opportunity to address these in the manuscript. Our responses to comments are shown below (in red text in our document). We have tracked changes in the MSWord version of the revised manuscript. These changes also address the comments of the other reviewer/s. We have revised our Conclusions (Section 6): we removed repetition and moved some of the text to Section 4, which was then edited to improve the synthesis of responses. Changes in Sections 4 and 6 were quite considerable, and tracking was removed.

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Discussion paper



revised the manuscript to remove all use of 'key impacts'. P8-Ch3.1: Talking about

36 responses you mean '36 individuals who filled in form S1', that probably came with in total a huge amount of forms S2 and S3 I guess? How do you prevent getting a skewed/biased view on the theme as for instance almost 40% of the responses is from the UK? It seems that it is via working with 'national responses' as I gradually start to understand. Is there a pattern in the number of pressures or impacts identified per country with the number of responses per country than? To reduce/remove bias, we aggregated responses by country to give what we called a 'national view', i.e. a 'view by country'. We have edited the text in the Methodology (Section 2.1.1) to clarify this and added a sentence to clarify that 'These aggregated responses are referred to hereafter as 'national responses'. In Section 5.1, we explain that this was done to minimise bias. We analysed the data to determine if there was a pattern in the number of pressures or impacts identified per country vs the number of responses per country. The data indicate a weak relationship for both pressures and impacts. We have added a sentence on this to Section 3.1.

P8-L198: '100% of the national responses' — What does this mean? Are there responses considered not national (e.g. from researchers/people not working for the government)? Or does this mean that when one of the responses from a country includes the pressure (independent of the number of responses), it is considered to be identified for that country? This question is related to the reviewer's questions in the paragraph above. The responses were aggregated per country. So marine litter was identified by all responses at a national level but that does not mean it was identified in every single individual response from a country where there were multiple responses. This example has been included in Section 2.1.1. for clarity. There were two responses from people in organisations which represent multiple countries — Eurogoos, from a Swedish representative who answered from a Swedish perspective; and OSPAR from a UK-based person who answered for the region as a whole. This information is included in Supplementary material S3, Table S3.1. Supplementary Material (S2 and S3) was uploaded in the main manuscript during submission, but it appears that it may not have been included in the discussion paper. We have uploaded this material

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separately from the main text in the revised manuscript. We have added text to this effect in Section 3.1. P13-Ch3.4.1: 'Responses to the questionnaire indicated that marine monitoring programmes provide less coverage of biological parameters than physical water column parameters and chemical parameters.' - Is this indeed the result per programme? Yes, Section 3.4 describes results per programme, as given by all respondents. Than the question arises about coverage (does monitoring take place at the same scale or with similar numbers of stations, or are there singular programmes covering large areas compared to several few station programmes for other aspects)? Is the presence or absence of monitoring of certain parameters at a national-subregional sea (or finer scale) level not a better indicator? Or are we only talking platform-based monitoring? Please discuss this? Section 3.5 describes the responses on the adequacy of monitoring programmes, and the explanations given for where monitoring was considered to be not adequate. Resolution in time and space was an important issue. These views were related to whole programmes, not only platform-based monitoring. The free text responses to the questionnaire did not go into in-depth analyses. These topics were expanded in the discussion, e.g. see Sections 5.4 and 5.5. P16-L358: Talking about percentages based on only 6 cases

is a bit strange (17% is one respondent); at least do both. We have replaced the percentage with the number 'one', as suggested. P17-L372: 'Figure 133' should be 'Figure 13'. We have corrected the figure numbering, to be 'Figure 13'. P26-L642-643: 'Such monitoring programmes would require considerable effort, highlighting the need to define/characterize relevant environmental'. - What do you mean? Our apologies for the incomplete sentence. It should read 'Such monitoring programmes would require considerable effort, highlighting the need to define/characterize relevant environmental threats in each habitat or region'. This has now been corrected. Interactive comment

Please also note the supplement to this comment: https://www.ocean-sci-discuss.net/os-2019-75/os-2019-75-AC1-supplement.pdf

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