Developing a Roadmap for Arctic Observing and Data Systems (ROADS). Version 30th August 2019. Review.

*(Feedback from Etienne Charpentier, WMO, 3 Sept. 2019)*

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| Line # | Comment |
| 6 | List of changes is not exhaustive; suggest to list them as examples (i.e. add e.g.). Also the changes listed is a mix of environment changes (e.g. depletion of cryosphere) and of human changes (e.g. adaptation demands): suggest separating the two in two distinct sentences.  |
| 10 | Suggest rephrasing beginning of sentence “The local impact of these changes” by “The local impact of environment changes” |
| 21 | Extend the list of specific conditions to “(e.g. Polar Night, extreme cold, lack of infrastructure and means to access remote areas)” |
| 25 | Replace “observational assets” by “observational assets, products and services based on observations” |
| 48 | Add at the end: “including for data sharing and exchange” |
| 73-76 | The IAOAF IDA 2017 document with SBAs and the >160 Key Objectives is a key document for the ROADS. Suggest to highlight this section in bold. Also, suggest adding a sentence like “ROADS will look at how to translate the Key Objectives into action, identify relevant contributors and milestones, whether existing or potential, and estimate resources that will be needed to accomplish them” |
| 104 | Add “and Organizations” at the end. |
| 128 | Footnote #3: Please add “WMO Integrated Global Observing System (WIGOS) aligned with WIGOS Vision 2040.” |
| 132 | Add “latency” in the list of observing systems requirements in brackets. Also, it seems to me that “coverage” duplicates with “spatial resolution”, so suggest to delete “coverage” or to clarify what is meant by coverage. Suggest changing “accuracy” to “uncertainty”, which is more appropriate terminology.EAV requirements will be defined for each of the SBAs, so suggest adding reference to those, e.g. “EAV’s are defined by their observing requirements for each of the SBA’s (e.g. …” |
| 178 | Include “partner Organizations” in the list of subject matter experts |
| 198 | Replace “in collaboration with relevant funding agencies” by ““in collaboration with relevant funding agencies and partner ORganizations” |
| 202 | Add “un-manned vehicles” in the list. |

General comments:

Excellent document, which forms a good basis for the way forward.