

## ***Interactive comment on “Seismic observations at the Sodankylä Geophysical Observatory: history, present and the future title of the manuscript” by E. Kozlovskaya et al.***

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The paper by Kozlovskaya et al. describes the history of seismology in northern Finland and the activities related to seismology at SGO. The introduction and the describing the historical development of seismology in Northern Finland is well written and quite interesting from a seismologist/my point of view. This description together with the listings in table 3 and 4, is of great importance for future datamining into the historical records. Chapter 3, 4 and 5 relates to resent work, development and instrumentation at SGO, the descriptions are interesting but better overall introductions are needed. Chapter 6 concerns the future, one could here get the impression that there will be no SGO if EPOS fails, I suggest to split the text as suggest below. For a reader that

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is not familiar with institutions, cities and locations in Finland, a single map with all locations would be helpful. I suggest a minor revision of the text. Someone with better English skills than me should review the text. The title has a typographic error at the end. Introduction: I am missing a description of what the initial purpose of SGO was and what is “Sodankylä” a city name or a region or what? Chapter 2, a map showing the location of the stations with the station code and cities, would be helpful. Page 3, line 5 rephrase “was a head” Chapter 4 is missing an introduction to why we need to know about the OU temporary experiments. Chapter 5 is missing an introduction on what this chapter wish to describe. Chapter 6, I guess this is the chapter regarding the future, but it is mostly on EPOS. I suggest writing separate chapter on the connection to EPOS and separate chapter that focus on future plans. Table 3 and 4, serial numbers for the used sensors and digitizers is a must in modern metadata. Fig 2, I cannot read the labels, the font is too small. It is not clear from the text, why there are three graphs for each station. Furthermore, the horizontals should also be plotted, since they often show a different/higher noise level. Fig 8, I cannot read the labels, the font is too small.

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