

## ***Interactive comment on “Optical laboratory facilities at the Finnish Meteorological Institute – Arctic Research Centre” by K. Lakkala et al.***

### **Anonymous Referee #2**

Received and published: 31 March 2016

Currently the scientific research is more and more frequently oriented on multidisciplinary studies. Local and international projects are conducted. The needs for multidisciplinary laboratory facilities have increased. FMI-ARC at Sodankyla located in sub-Arctic zone is a very good site for environmental and atmospheric research. There is a long-term experience of atmospheric and solar radiation measurements. The measurements with single monochromator based Brewer spectrophotometer were started in 1988 and since then the instrumental and supporting facilities have developed to the current high scientific level. The major content of paper is related to the description of the optical laboratory facilities and the measurement procedures. It is very necessary for the partners in multidisciplinary research. Not always the partners working in other research areas are familiar with the technical facilities of host the hosting institution and there may arise problems during the initial stages of project work. All solar radi-

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ation measurements, especially in the UV spectral range, are quite complicated and need applying regular calibration and stability checking measures. It is necessary that the facilities of partners and the hosting institution are in agreement. The published descriptions help to avoid possible complications and at the same time are useful in preparing papers on the results of research. The survey of laboratory facilities and measurements procedures presented in paper is relevant and users friendly. All necessary points are discussed in details. Everybody can get a relevant picture. The language is good enough. Word "also" is used rather too frequently.

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Interactive comment on Geosci. Instrum. Method. Data Syst. Discuss., doi:10.5194/gi-2015-43, 2016.

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