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LOFAR PL610 Station Data Product Specification

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Since 2018, the Space Research Centre of the Polish Academy of Sciences in Warsaw, Poland, has measured and gathered over 8500 hours of observational data with the use of the LOw Frequency ARray (LOFAR) radio telescope located in Borówiec, Poland. The PL610 LOFAR data products are being made available and used within the framework of several projects, such as PITHIA or VESPA. Moreover, the data can be requested directly from the team. The data provided is mainly prepared for studying local properties of the ionosphere and includes values such as the equivalent of the S4 index obtained with the LOFAR station or the dynamic spectrum of the radio signal measured from strong astronomical radio sources.

The following work specifies the Standard Data Product provided by means of the LOFAR PL610 station. Within the framework of the presented poster, we show the available data products along with their metadata description and example of data utility.