



# Report from the Short Term Mission – STM

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<b>PERSON NAME:</b>	<i>JANIS STEINBERGS</i>
<b>HOME INSTITUTE</b>	<i>Ventspils International Radio astronomy Center (VIRAC)</i>
<b>HOST COLLABORATOR</b>	<i>Marco Iacobelli</i> Email: <a href="mailto:iacobelli@astron.nl">iacobelli@astron.nl</a>
<b>HOST INSTITUTE</b>	<i>ASTRON (Netherlands Radio Astronomy Centre)</i>
<b>DATE OF THE STM:</b>	<i>16.09 - 20.9</i>

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# Report:

## 1. TOPIC

Improving accessibility of archived LOFAR data

## 2. PROPOSED AND PERFORMED WORK

### *Proposed*

The applicant is developing a stand alone software tool to automatize and improve LOFAR data selection and retrieval. The tool will be made available to the user community and it is part of the applicant master thesis project. The applicant will also be exposed to data analysis. The goal of the proposed visit is to finalize the coding/testing phase, to develop documentation and release it. Finally the tool will be adopted in a pilot project to re-process data of the LOFAR MSSS survey (DOI: [10.1051/0004-6361/201425210](https://doi.org/10.1051/0004-6361/201425210)).

### *Performed*

The development of was finalize and released version 1.0. Tool is available from github link: <https://github.com/sklandrausis/LanDmARk>. Created documentation is available from <https://github.com/sklandrausis/LanDmARk/blob/master/README.pdf>. To adopted tool for pilot project to re-process data of the LOFAR MSSS survey (DOI: [10.1051/0004-6361/201425210](https://doi.org/10.1051/0004-6361/201425210)). several changes was made to code. Also data processing was discussed, how results of data processing should be analysis.

## 3. CROSS-DISCIPLINARITY

*As VIRAC technical workers have relatively small experience with LOFAR data processing using AIPS, CASA, LOFAR specific tools and since in 2020 VIRAC will have LOFAR station, VIRAC will need LOFAR data experts. This work is important for continuing the effort of transfer of knowledge related to LOFAR data processing, analysing data from LOFAR station, interpreting data, and doing science.*

## 4. IMPACT

*Expanded practical experience and field of view of VIRAC staff knowledge will positively impact astronomical data processing including post correlation data analyse, scientific use of LOFAR station and LOFAR network.*

## 5. PUBLICATIONS

*- in case of future publication - please provide additional information: place & date. Remember to insert the acknowledgment of the RadioNet support:*

*The project leading to this publication has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 730562 [RadioNet]*

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