DATA & POLICY – DATA DESCRIPTOR

<short running-title>

Article title

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**Keywords:** Keyword 1; Keyword 2; Keyword 3. Provide up to five keywords, separated by semi colons.

**Abbreviations (if needed):** DSA: Dynamic Spectrum Access; FCC: Federal Communications Commission;

Abstract

The Abstract should succinctly describe the study, the data and any methods used. The focus of a data paper should be promoting data re-use rather than reporting new findings. 250 words in length.

Policy Significance Statement

Beneath the abstract authors must provide a 120-word statement that summarises the significance of the data for policy makers, written at a level understandable to a broad audience. This will be published in the article itself.

Headings below are suggested for the structure of the data paper, rather than required.

**1. Background**

This section could for example be a ‘background’ section that provides an overview of the study design and the data generated, including any background information needed to put this study in the context of previous work and the literature, and should reference literature as needed. The section should also briefly outline the broader goals that motivated collection of the data, as well as its potential use. We also encourage authors to include a figure that provides a schematic overview of the study design or workflow (if applicable).

## 1.1. First section subheading

If needed.

**2. Methods**

A methods section could include detailed text describing any steps or procedures used in producing the data, including full descriptions of the study design, data acquisition and any computational processing. Related methods should be grouped under corresponding subheadings where possible, and methods should be described in enough detail to allow other researchers to interpret and repeat, if required, the full study.

Authors should cite previous descriptions of the methods under use, but ideally the method descriptions should be complete enough for others to understand and reproduce the methods and processing steps without referring to associated publications.

## 2.1. Second section subheading

If needed.

*Fig. 1. Sample caption for the first figure. (Note: footnote of the figure captions are optional.)*

# 3. Data records

This section could be used to explain each data record associated with this work, including the repository where this information is stored, and to provide an overview of the data files and their formats. Each external data record should be cited as described below. A data citation should also be placed in the subsection of the Methods containing the data-collection or procedure(s) used to derive the corresponding record.

Tables can be used to support the data records, specifying the data output resulting from each data-collection or analytical step and the names of the corresponding files should these form part of the archived record.

Example table (Table 1).

Table 1. Sample of a tablea

|  |  |
| --- | --- |
| Case | Level |
| Good | 1 |
| Better | 2 |
| Best  | 3 |

aSample of table footnote.

**Example algorithm 7. Computation of the far-field CSDM **

Input:  matrix 

 Output:  matrix 

 for  to  step 1 do:

 for  to  step 1 do:

 

Unnumbered display list sample

* Bulleted list level 1

 (3)

* Bulleted list level 1
	+ Bulleted list level 2
* Bulleted list level 1

The list is shown that can be given in the bulleted form.

# 4. Validation

The validation section should present any experiments or analyses that are needed to support the technical quality of the dataset. This section may be supported by figures and tables, as needed. This is a required section; authors must provide information to justify the reliability of their data.

# 5. Usage Notes

The Usage section could contain brief instructions to assist other researchers with reuse of the data. This may include discussion of software packages that are suitable for analysing the data files, suggested downstream processing steps, or tips for integrating or comparing the data records with other datasets. Authors are encouraged to provide code, programs or data-processing workflows if they may help others understand or use the data.

Our expectation is that data and code described in this paper is openly available in a public repository, like GitHub, with DOI or other permanent identifier provided in Data Availability Statement below.

However, we recognise that some studies require privacy or safety controls on public access to the data. If this is the case, this section should describe in detail these controls, including how authors can apply to access the data, what criteria will be used to determine who may access the data, and any limitations on data use.

Note that Cambridge University Press has a partnership with Code Ocean (<https://codeocean.com/>), a computational reproducibility platform that can host numerous code languages. This can be used to embed code in a window in the article, enabling readers to execute the code and see the results without leaving the article. For an example, see: <https://doi.org/10.1017/aap.2018.3>. If you are interested in using Code Ocean, contact dataandpolicy@cambridge.org.

**Acknowledgments.** A statement to acknowledge non-authorship contributions, e.g. “The author is grateful for the administrative support provided by XXX.”

**Funding statement.** A statement about any funding to the article, e.g. “This research was supported by grants from the <funder-name> <doi> (<award ID>); <funder-name> <doi> (<award ID>). The funder had no role in study design, data collection and analysis, decision to publish, or preparation of the manuscript.” Or “None” when no specific funding exists.

**Competing interests.** A statement about any financial, professional, contractual or personal relationships or situations that could be perceived to impact the presentation of the work --- or `None' if none exist

**Data availability statement.** A statement about the availability of any data or code necessary to support the findings of in the article, e.g. “Replication data and code can be found in Harvard Dataverse: <https://doi.org/link>”.

**Author contributions.** A Please provide an author contributions statement using the CRediT taxonomy roles as a guide: https://www.casrai.org/credit.html. Conceptualization: A.A; A.B. Methodology: A.A; A.B. Data curation: A.C. Data visualisation: A.C. Writing original draft: A.A; A.B. All authors approved the final submitted draft.

**References**

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