



The WEAVE Data Policy

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1 INTRODUCTION

WEAVE is a new wide-field spectroscopic facility proposed for the prime focus of the 4.2m William Herschel Telescope. The facility comprises a new 2° field-of-view prime focus corrector with a 1000-multiplex fibre positioner, 20 individually deployable integral-field units, and a large single integral-field unit. The IFUs and the MOS fibres can be used to feed a dual-beam spectrograph that will provide full coverage of the majority of the visible spectrum in a single exposure at a spectral resolution of ~ 5000 or modest wavelength coverage in both arms at a resolution of ~ 20000 . The instrument is expected to be on-sky by 2018 to provide spectroscopic sampling of the fainter end of the *Gaia* astrometric catalogue, chemical labelling of stars to $V \sim 17$, dedicated follow-up of substantial numbers of sources from the medium and deep LOFAR surveys, 3D spectroscopy of gas-selected galaxies from WSRT-Apertif, and deep surveys of galaxy clusters and moderate-redshift galaxies.

1.1 Abbreviations

The abbreviations and acronyms used in this document can be found in [WEAVE-MAN-001](#).

1.2 Purpose

The purpose of this document is to describe the policy of distribution of scientific data from the WEAVE Project and Surveys (hereafter “WEAVE”). This policy is designed to promote the usage of WEAVE data, both inside WEAVE and to the general public, and to protect and generate a return on the investment of the individuals and organisations who have contributed to WEAVE.

1.3 Applicability

This policy applies to all scientific and calibration data generated by WEAVE, regardless of where the data are hosted. This policy does not apply to external public or proprietary data hosted by the WEAVE Archive System (or other internal WEAVE repositories) that were not generated by WEAVE (although see below).

Portions of this policy can be overruled by Memoranda of Understanding with specific partners only after agreement of the WEAVE Project Executive and the WEAVE Project Board and/or the WEAVE Survey Executive.

1.4 Violations

If a user of WEAVE data is found to be in violation of this policy, the WEAVE Project Executive and the WEAVE Project Board and/or the WEAVE Survey Executive (with the latter, if in existence, taking precedence over the former after the completion of the

WEAVE Project) will take appropriate action, up to and including the removal of all data and publication rights.

1.5 References

This policy is in large part based on concepts presented in the Sloan Digital Sky Survey-IV (SDSS-IV) Principles of Operation [2].

- | | |
|-----------------------------------|--|
| [1] WEAVE-MAN-001 | Abbreviations and Definitions |
| [2] SDSS-IV PoO | SDSS-IV Principles of Operation |
| [3] WEAVE-EXE-004 | The WEAVE Publication Policy |
| [4] WEAVE-EXE-003 | Multilateral Agreement concerning provision of the WEAVE instrument for the William Herschel Telescope |
| [5] WEAVE-SPA-001 | SPA System Description and Overview |
| [6] WEAVE-SYS-010 | WEAVE Data and Information Flow |
| [7] WEAVE-SCI-002 | The WEAVE Science Case |

2 DATA OWNERSHIP

WEAVE data (as defined in Sec. 3.1) are owned by the ING and held in trust for the Survey Consortium (defined in [3] and [4]) and the PIs during the proprietary period (as defined in Sec. 5).

3 DATA CATEGORIES

This policy distinguishes between two main types of data that are produced, used or served by WEAVE and its Archive System (WAS): WEAVE and external data.

3.1 WEAVE data

This category includes any data produced by the WEAVE instrument. A data-flow diagram can be found in [5] and [6].

3.1.1 Laboratory data

WEAVE laboratory data includes any data produced in the lab during design, development, manufacturing, assembly, integration, testing, and maintenance of the WEAVE instrument. In some cases, laboratory data may overlap with calibration data (Sec. 3.1.2 below).

3.1.2 Calibration data

WEAVE calibration data includes any data collected by the WEAVE instrument, whether taken by the instrument on the telescope or in the laboratory, for purposes of calibrating WEAVE survey and PI data.

3.1.3 Instrument health and housekeeping data

WEAVE instrument health and housekeeping data includes all XML files, observation blocks (OBs), OCS information, weather data, seeing measurements, etc., used to produce WEAVE survey data or collected during the production of WEAVE survey data to monitor the performance of the WEAVE instrument and the conditions under which WEAVE survey data are taken.

3.1.4 Survey data

WEAVE survey data includes all science data produced during the WEAVE surveys. This includes raw data produced by the detectors and collected by OCS, uncalibrated and calibrated (partially) reduced data produced by CPS, and science-ready advanced data products produced by APS, for any data collected for the WEAVE surveys.

3.1.5 Contributed data products

WEAVE contributed data products (CDPs) are all data products produced outside of CPS and APS based on WEAVE survey data that are proprietary at the time of production.

3.1.6 PI data

Principal Investigator (PI) data includes any data taken with the WEAVE instrument produced as part of an open time allocation (i.e., not through the WEAVE survey allocations), including raw and processed data and any associated calibration, instrument health, and housekeeping data.

3.2 External data

This category includes any data included in the WAS or other WEAVE data systems that are not produced by the WEAVE instrument.

3.2.1 Public external data

Public external data are any external data in the WEAVE system originally retrieved from a public data repository. Examples of public external data include *Gaia* data releases, Sloan Digital Sky Survey data, etc.

3.2.2 Proprietary external data

Proprietary external data are any external non-WEAVE proprietary data that have been ingested into the WEAVE data systems before they have been released publicly. Examples of proprietary external data include LOFAR Survey KSP catalogues or J-PAS data before their respective data releases.

4 DATA RIGHTS PER WEAVE PARTICIPANT CATEGORY

The WEAVE Publication Policy [3] distinguishes between four participant categories: WEAVE Builders, Survey Builders, WEAVE Participants, and External Collaborators. For the purposes of this document, we add a fifth category, External Users, who are users of the WAS but do not fall into the other four categories. External Users are pictured to be astronomers from non-WEAVE partner countries and institutes who do not fall into one of the four WEAVE participant categories. The WAS maintains a profile for each user that specifies their participant category and the surveys with which they are associated.

All users of the WAS may access public external data as specified in Section 3.2.1, regardless of participant category.

4.1 WEAVE Participants

WEAVE Participants have rights to access, scientifically exploit, and publish WEAVE laboratory data, calibration data, instrument health and housekeeping data, survey data, and contributed data products before public release (Section 5), under the rules specified in the WEAVE Publication Policy [4]. WEAVE Participants only have access, exploitation, and publication rights to proprietary external data (Section 3.2.2) if the external data provider has given that Participant explicit rights to those data. These rights are noted in the WAS user profile.

4.2 WEAVE Builders

WEAVE Builders are WEAVE Participants and therefore have the rights specified in Section 4.1.

4.3 Survey Builders

Survey Builders who are WEAVE Participants have the rights specified in Section 4.1. Survey Builders who are not WEAVE Participants have rights to access, scientifically exploit, and publish WEAVE laboratory data, calibration data, instrument health and housekeeping data, survey data, and contributed data products before public release only for WEAVE data associated with those surveys with which they are associated. As for WEAVE Participants, Survey Builders only have access, exploitation, and publication rights to proprietary external data if the external data provider has given that Participant explicit rights to those data.

4.4 External Collaborators

External Collaborators have rights to access, scientifically exploit, and publish WEAVE laboratory data, calibration data, instrument health and housekeeping data, survey data, and contributed data products before public release only for WEAVE data associated with those surveys and papers with which they are associated, under the rules specified in the WEAVE

Publication Policy [4]. As for WEAVE Participants, External Collaborators only have access, exploitation, and publication rights to proprietary external data (Section 3.2.2) if the external data provider has given that Participant explicit rights to those data.

4.5 External Users

External users only have access and exploitation rights to WEAVE data that have been publicly released and no access to any proprietary WEAVE data. The exception is for Principal Investigators of non-survey WEAVE observations who are not themselves WEAVE Participants (see Section 3.1.6). These PIs have rights to access, scientifically exploit, and publish WEAVE calibration, instrument health and housekeeping, and PI data associated with their non-survey observations.

5 PROPRIETARY PERIODS AND DATA RELEASE SCHEDULE FOR WEAVE DATA

5.1 WEAVE Survey Data

All WEAVE data listed in Section 3.1, apart from PI data (covered in Section 5.2 below) and CDPs (covered in Section 5 below), are proprietary under the considerations described in Section 3 for a period of time specified in the following table, which assumes a five-year survey duration. We note that, at the time of writing, there is expected to be an internal data release by the WAS every three months (which may become every six months after the first data release) containing all data products produced by CPS and APS up to that point. In the table below, T0 refers to beginning of survey data taking.

<i>Data release</i>	<i>Release date</i>	<i>Coverage of survey data in data release</i>	<i>Coverage of proprietary period for survey data</i>
DR1	T0+24 months	T0 – T0+12 months	T0 – T0+24 months
DR2	T0+36 months	T0 – T0+24 months	T0+12 months – T0+36 months
DR3	T0+48 months	T0 – T0+36 months	T0+24 months – T0+48 months
DR4	T0+60 months	T0 – T0+48 months	T0+36 months – T0+60 months
DR5	T0+72 months	all data	T0+48 months – T0+60 months

At the release of DR5 – in the case of a five-year survey – all data become public.

All data releases must be approved by the WEAVE Survey Executive and accompanied by a data release paper (Section 2.2 of [4]).

In the case of the WEAVE survey being extended beyond five years, the same pattern as in the table above will be followed: a data release every year, including data taken up to twelve months before the data release, followed by a final data release one year after survey completion covering all data taken for the survey.

5.2 WEAVE PI Data

Under normal circumstances, PI data are proprietary to the PI for one (1) year (12 months) after the reduced data¹ are made available to the PI. The length of this period can be negotiated with the Observatory in extraordinary cases. After the expiry of the proprietary period, WEAVE PI data are accessible to WAS users in the same way as WEAVE survey data. However, PI data that preempt or replicate survey data are made available *immediately* to WAS users in the same way as WEAVE survey data. In such a case, the data fall under the proprietary periods described in Section 5.1 above. The SE decides what constitutes preemption or replication of WEAVE survey data; disputes over these decisions will be adjudicated by the ING Board.

6 DATA POLICY FOR CONTRIBUTED DATA PRODUCTS

CDPs are defined in Section 3.1.5. Examples of CDPs include redeterminations of object radial velocities, galaxy absorption-line index strengths, or those stellar parameters produced by the WEAVE Advanced Processing System (APS). A CDP must be uploaded to the WAS before submission of any paper presenting or containing any or all of the data in that CDP. CDPs will be proprietary for 12 months or until the moment of publication of a paper containing the CDP, whichever comes first.

Publication of data in CDPs is covered by the WEAVE Publication Policy [4].

¹ “Reduced data” here means the data reduced by CPS and released to WAS.