



## SUNRISE III

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## APPROVALS

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## CHANGE LOG

<b>Iss./Rev.</b>	<b>Date</b>	<b>Pages Affected</b>	<b>Reason For Changes</b>
Draft/-	15-Apr-2020	all	Initial version
Draft	07-Jun-2021	all	After some iterations

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## ACRONYMS

CSBF	Columbia Scientific Balloon Facility
NASA	National Aeronautics and Space Administration
MPS	Max Planck Institute for Solar System Research

# 1 GENERAL ASPECTS

## 1.1 SCOPE

This document defines the data policy and the rules for co-authorship for the SUNRISE III data and the publications resulting from the SUNRISE III project (description of instruments and scientific analysis). It is an agreement between the MPS representing the SUNRISE III team and the Lead Co-I institutes NAOJ, IAA (representing the Spanish Space Solar Physics Consortium S3PC), KIS, APL (hereinafter jointly or individually, referred to as "Parties" or "Party") in the development, fabrication, assembly, testing, integration, characterization, calibration, transportation and operation of all units, subsystems and experiments (as listed below) of the SUNRISE III Mission.

## 1.2 INTRODUCTION

The Memorandum of Agreement is the basis for the collaboration between the Parties. In order to avoid frequent updates of the MoA it was decided during the 11<sup>th</sup> PI/CoI Videocon to define the data policy and the rules for co-authorship not in the MoA itself, but in this document.

# 2 DATA POLICY

The Parties have unlimited access to the use of all the scientific data generated under this document. After an embargo period (see below), the SUNRISE III data will be treated as a public resource and will be made available for public access.

The Parties agree to start with the data calibration and reduction immediately after recovery of the SUNRISE III data storage system. The lead in the data reduction process is distributed between the Parties according to their work package:

- MPS: SUSI data, all system level housekeeping data
- APL: gondola housekeeping, Sun guider telescope
- S3PC: TuMag data
- NAOJ: SCIP data
- KIS: CWS data

All Parties will have equal access to all the data, i.e. raw, reduced and calibration data. The SUNRISE III data will be centrally stored in the European data center at MPS and the U.S. data center at APL. The Lead Co-I institutes can maintain their own mirror sites.

The aim is to make science-ready data available to the Parties not later than 6 months after starting the data reduction and calibration. An embargo period of 6 months will follow, when the SUNRISE III data are for exclusive use by the Parties. After this embargo period the data will be made available to the international community through the SUNRISE III data centers. This open phase is expected to happen not later than 12-months after the recovery of the SUNRISE III data storage system.

All Parties will have the freedom to carry out the research of their choice. The Parties will present their plans for the data analysis at SUNRISE III Team meeting(s) to be organized after the science flight (but before the data have been fully reduced). If multiple Parties want to do overlapping work with SUNRISE III data, the PI will adjudicate.

## 2.1 DATA ACCESS FOR NON-TEAM MEMBERS DURING EMBARGO PERIOD

### *SOLARNET TRANS NATIONAL ACCESS PROGRAM*

Around 10% (TBD) of the SUNRISE data will be available through the SOLARNET TransNational Access Program (see <https://solarnet-project.eu/Transnational-Access-and-Service-Programme-TAS>). The SOLARNET Time Allocation Committee will collect and decide on the observing proposals. The PIs of the winning proposals will get the same access as the Parties to the data sets relevant for their individual proposal, but will be limited to carrying out only their selected projects. The Parties have equal access to these data as the PIs of the proposals, but should not repeat the accepted projects of the SOLARNET PIs. The SOLARNET PIs will be required to comply with the SUNRISE III publication policy.

### *NON-TEAM MEMBERS NOT ACCESSING DATA VIA SOLARNET*

The SUNRISE III team can invite additional scientists to analyse SUNRISE III data during the embargo period, as long as this does not impede or compete with the analyses planned by the parties and if these scientists agree to adhere to the SUNRISE III publication policy. I.e. data will be distributed in a controlled and curated manner. The PI, PM and Lead Co-Is must be informed and must agree to allowing access to these external scientists.

Further, the SUNRISE III team will organize a conference for the community after the science flight (and after at least the first Team-internal Science meeting) to showcase the data and invite the community to participate in the analysis of the SUNRISE III dataset during the embargo period, subject to authorship rules and under the condition that their projects do not interfere with projects planned by the Parties or by the SOLARNET PIs.

## 3 CO-AUTHORSHIP

The refereed publications resulting from the SUNRISE III mission can be categorized in three phases:

1. Instrument papers: The following papers are planned:
  - a. Description of the SUNRISE III observatory (lead: MPS)
  - b. Gondola description (lead: APL)
  - c. SCIP instrument paper (lead: NAOJ)
  - d. TuMag instrument paper (lead: IAA)
  - e. SUSI instrument paper (lead: MPS)
  - f. CWS instrument paper (lead: KIS)

Depending on the complexity and the scale of the abovementioned papers, the Parties can decide to publish sub-workpackages in separate papers (e.g., telescope, ISLiD). The Parties aim to have these papers ready for publication before the launch in June 2022. These papers must include the following co-authors: PI, Lead Co-Is, and a list of people who contributed significantly to the hardware phase of the project. This list must be agreed upon between the Parties during the writing phase of the papers.

2. Science papers during embargo period:
  - a. Papers by members of Parties:

By default the scientists doing the main scientific analysis/writing for/of the papers will lead the science publications. This will in general be scientists from the institutes of the Parties during the embargo period of the SUNRISE III data. The topics of these papers will be discussed in dedicated SUNRISE III Science Meetings to avoid conflicts. The initial science papers shall be published in a special issue of a leading astronomical journal. The co-authors of these papers must include the PI, the Lead Co-Is. Additionally, instrument PIs may propose instrument-specific lists of scientists to be added as co-authors of

papers making use of data from their instrument. These lists contain scientists who contributed significantly to the scientific success and to the data reduction phase of the project. These lists must be agreed upon between the Parties before the end of the SUNRISE III data reduction phase. In particular, these lists must be finalized by the time of the SUNRISE III science community conference.

- b. Scientific community papers during embargo phase (including SOLARNET PIs):  
Scientists from the community will be invited to work with SUNRISE III data and to lead papers written based on their analyses provided these do not overlap with those from within the SUNRISE III team. The remaining co-authors shall be the same as under (a).
3. Science papers after the embargo period: After the embargo phase the SUNRISE III data shall be freely available to be analysed and published by the international scientific community. Users of the SUNRISE III data are encouraged to collaborate with the PI/Lead-Co-I institutes.
4. The time at which the data are first accessed and not the date of paper submission determines whether the paper is considered to belong to papers from the embargo period or not.
5. The usage of the SUNRISE III data shall be acknowledged in all papers that make use of such data. A standard phrase to be used in the acknowledgement section of all SUNRISE III papers will be published on the SUNRISE III website.