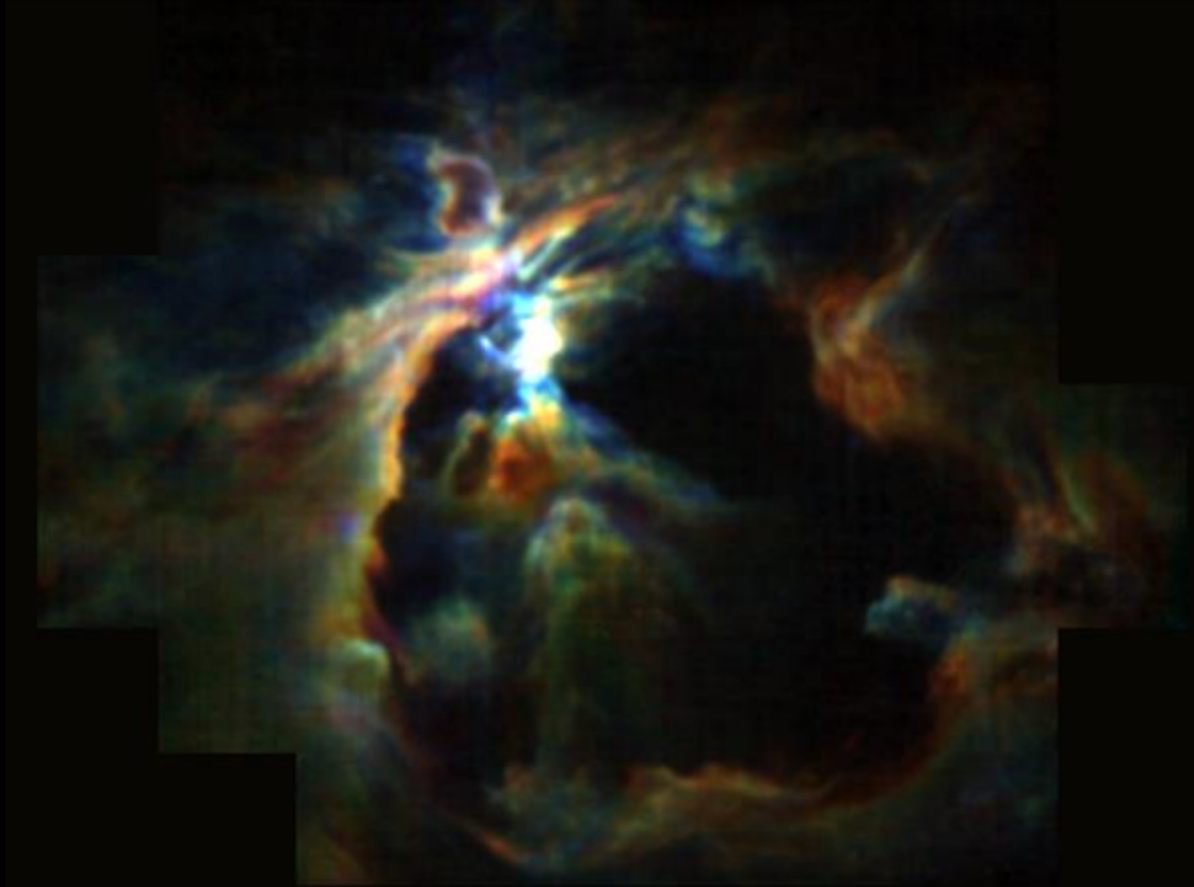


# Supporting Documentation

Jim De Buizer

SOFIA Users Group Meeting  
November 4, 2022



# Performance Documentation Description

## Science Instrument Handbooks for Archive Users

### Purpose:

- Convey easily the essential information an archive user might require
- Capture measurements of critical parameters for each instrument
  - Emphasis on information useful when analyzing, interpreting data
  - Emphasis on charts/tables showing any evolution of important parameters
- Description of calibration
  - Certainties (with description of any changes over time)
  - Uniformity and clarity documenting which calibrations are available and when/if to use them
- Description of post-processing artifacts and how to deal with them (if possible);  
Cautions in interpreting the data
- Nice-to-haves
  - Like descriptions of common analyses, correcting for rare issues (but this is low priority)

# SI Handbook for Archive User General Outline

"Cribs sheets" with most-sought-after information for casual archive user (e.g., beam size, pixel scale, filter widths, etc.), with references to more detailed sections

1. Essential Information Summary
2. Instrument Description
  - Hardware
  - Observing Modes
3. Performance
  - i.e., beam size, sensitivity, other critical performance metrics
4. Data
  - Calibration process and evolution
  - Reduction procedures
  - Format
  - Artifacts/residuals
  - Special cases
5. Scientific results
6. Appendices

Includes any changes over time

Examples of published results that illustrate how different data are used (nice-to-have)

Description of special data sets like, like Legacy data, DDT data, or Impact Program data. Also, any unique configuration data.

Any issues that require large space will have their own appendices, e.g., an example of a complete data header with detailed description of information organization and keyword meanings

# High-Level Documentation Schedule

**February 1, 2023**

Mid-project Review (to SMO Management and/or a SOFIA user group)

**June 1, 2023**

"Final" documents published to IRSA (i.e., all essential information)

**June – September 2023**

Additional "nice-to-have" sections can still be worked on and included; further corrections or updates possible