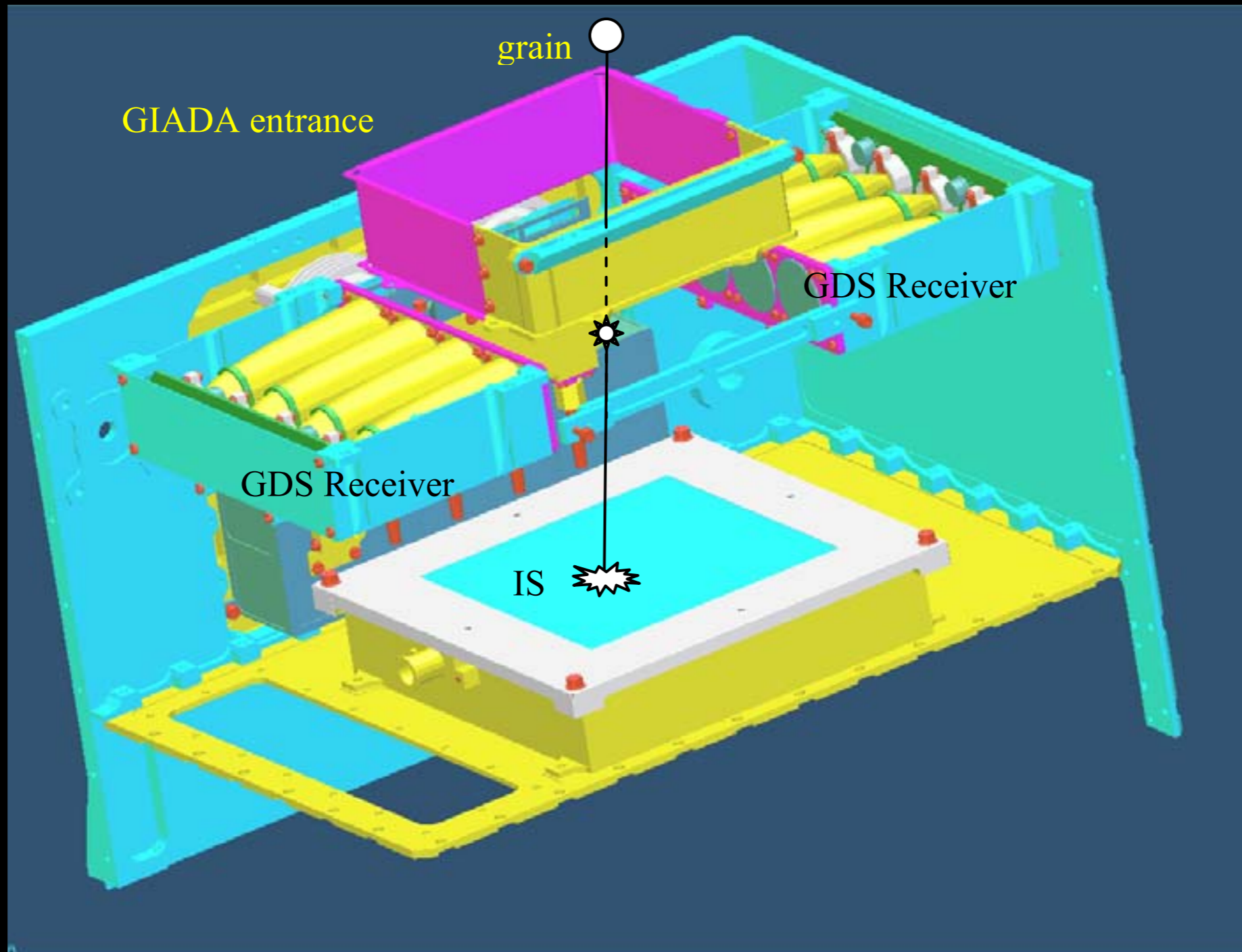


# PDS Review

# GAIDA

Sascha Kempf  
CU/LASP

# The Instrument



# Summary

- Delivery contains all GIADA high level data products:
  - Maps of the spatial dust density (particles/m<sup>3</sup>) in the comet coma
  - Maps of the dust mass distribution in the coma (kg/m<sup>3</sup>)
  - Maps of the dust speed magnitude in the coma
  - Maps of the dust speed range in the coma
  - Maps of the dust production areas on the nucleus
- Rosetta-Orbiter GIADA 67P Dust Maps obtained between 8/1/2014 and 9/30/2016:
  - Pre-landing bound orbit 8/1/2014 - 2/3/2015
  - Flybys day side 2/4/2015 - 3/28/2015
  - Post equinox 4/16/2015 - 6/29/2015
  - Perihelion 7/4/2015 - 10/31/2015
  - Post perihelion 11/1/2015 - 3/27/2016

# Issues

- [AAREADME.txt](#):
  - refers to document RO\_GIA\_DATA\_UM\_V01 in the documents directory, the correct name is [GIA\\_DATA\\_UM\\_V01](#)
- [voldesc.cat](#):
  - typo in [DESCRIPTION](#): missione instead of mission
- [document/docinfo.txt](#) is not up to date:
  - [publication\\_date](#) is incorrect
  - [LABEL\\_REVISION\\_NOTE](#) is incorrect
  - does not list all documents: [seidelmann](#) and [snyder](#) are missing
- [catalog/dsmap\\_nucleus.cat](#):
  - [LABEL\\_REVISION\\_NOTE](#) is not up to date

# Issues (Post RID)

- prelanding\_bound\_orb\_2014\_08\_06/gia\_mass\_flux\_prl\_esc1: Time Conflict
  - START\_TIME = 2014-08-01 16:15:04.851
  - DESCRIPTION: It is based on the dust detections acquired ... from January 2015 to March 2015.
- post\_equinox\_2015\_04\_14/gia\_part\_flux\_esc2: Time Conflict
  - START\_TIME = 2015-02-04 04:42:14.553  
STOP\_TIME = 2015-03-28 16:55:22.999
  - DESCRIPTION: It is based on the dust detections acquired ... from April 2015 to June 2015.
  - directory name is inconsistent with start time
- perihelion\_2015\_06\_01:
  - directory name is inconsistent with covered time range from 7/4/2015 - 10/31/2015
- flybys\_day\_side\_2015\_02\_05:
  - directory name is inconsistent with start time 2/4/2015

# Data Products

- Managed to read all tables
- Verify consistency partially outside of my area of expertise
- Team has improved the file names employed for the maps
- Team has addressed previous criticism concerning the map projections

# RID: Major

- None

# RID: Minor

- Fixing typos
- Fixing descriptions, catalogs etc.