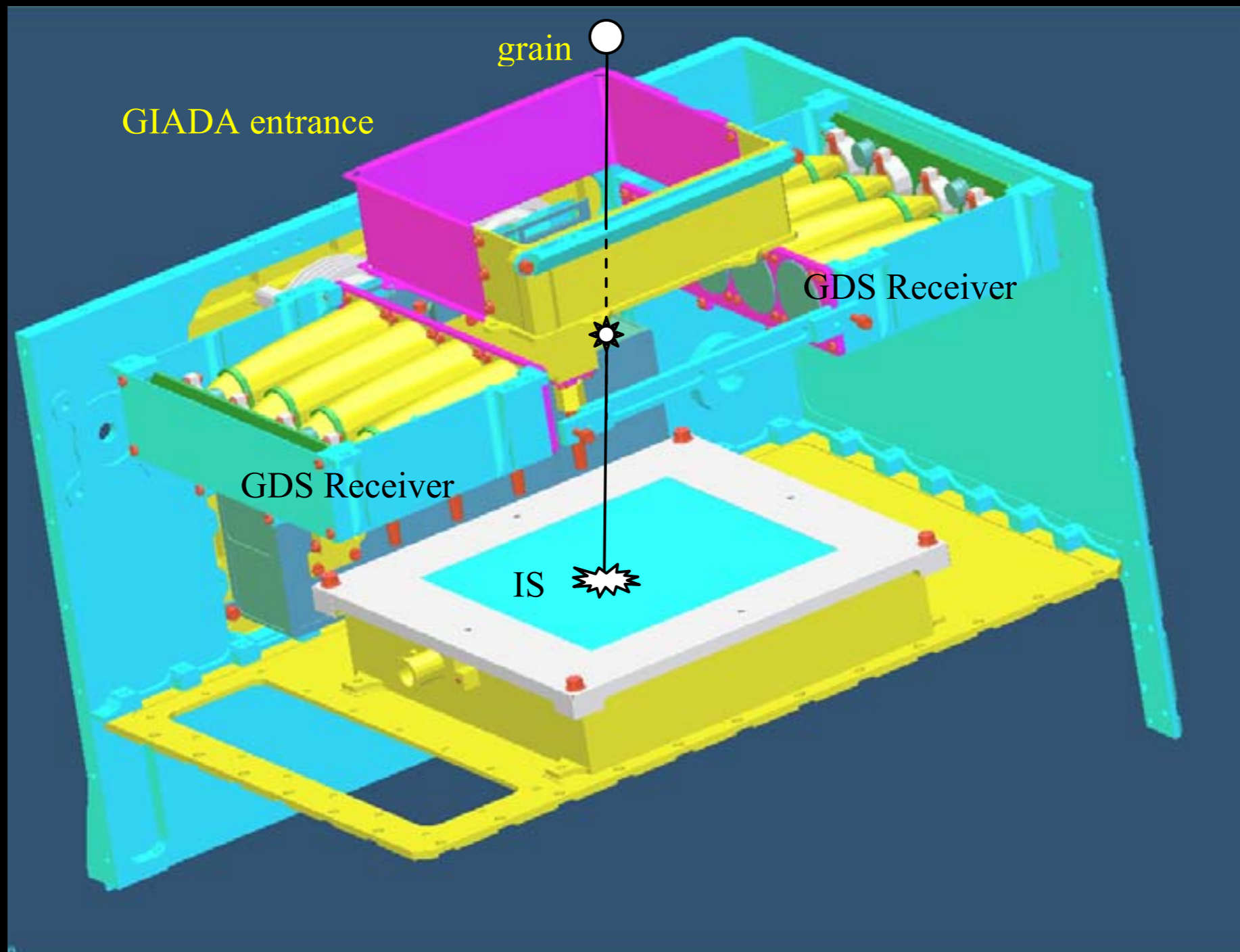


# PDS Review

# GAIDA

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# The Instrument



# Summary

- CODMAC Level 5 Data
- Rosetta-Orbiter GIADA Escort 1 and 2 67P Dust Maps
  - 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

# Issues

- Readme.txt refers to wrong data product:  
*...Rosetta GIADA data during Rosetta Extension 3 phase*
- Docinfo.txt refers to the content of a different archive
- Catinfo.txt does not describe the content of the catalog directory
- Indxinfo.txt seems to refer to different archive
- *Many typos (see RIDs)*
- Incorrect map projections

# Data Products

- Managed to read all tables
- Verify consistency partially outside of my area of expertise:
- ALL files appear to have incorrectly defined the map projection:
  - If truly the radius is 15km, then the km/pixel would be:  
 $15000 * \text{PI} * 2 / 1024 = 0.092039 \text{ km/pixel}$  or  
MAP\_SCALE = 0.092039 <KM/PIXEL>
  - For a global file -180 to 180 and -90 to 90 lats, then the OFFSETS should be  
LINE\_PROJECTION\_OFFSET = 255.5  
SAMPLE\_PROJECTION\_OFFSET = 511.5
  - If the file is not global in extent (or the radius is not 15km), then the above formulation is not correct.

# RID: Major

- ALL files appear to have incorrectly defined the map projection

# RID: Minor

- Fixing typos
- This should also include fixing the archive documents (not included in the submitted RIDs)