Osservatorio Astronomico di Capodimonte

iaps Institute for Space Astrophysics and Planetology
Istituto di Astrofisica e Planetologia Spaziali

CSIC
Consejo Superior de Investigaciones Científicas

I·A·A

Selex ES
A Finmeccanica Company

GIADA

Rotundi, A., Della Corte, V., Fulle, M., Ivanovski, S., Rinaldi, G., Longobardo, A., Zakharov, V., Lopez-Moreno, J.J., Rodriguez, J., Colangeli, L., Palumbo, P., Mazzotta Epifani, E., Crifo, J.C., Bussoletti, E., Esposito, F., Green, S., Grün, E., Lamy, P.L., McDonnell, J.A.M., Mennella, V., Molina, A., Morales, R., Moreno, F., Ortiz, J.L., Palomba, E., Perrin, J-M., Rietmeijer, F.J.M., Rodrigo, R., Weissman, P.R., Zarnecki, J. C., Cosi, M., Giovane, F., Gustafson, B., Herranz, M. L., Jeronimo, J. M., Leese, M. R., Lopez-Jimenez, A.

Rosetta SWT #48, November 2017 , @ Madrid

Osservatorio Astronomico di Capodimonte

iaps Institute for Space Astrophysics and Planetology
Istituto di Astrofisica e Planetologia Spaziali

INAF

CSIC
Consejo Superior de Investigaciones Científicas

Instituto de Astrofísica de Andalucía
I·A·A

Università degli Studi di Napoli Parthenope

Selex ES
A Finmeccanica Company

2° part - A brief overview of the GIADA archive: products and what /how to use them.

GIADA Archive Products Description:
GIADA DATASETs contain both Level 2 and Level 3 data.

Level 2:

- Data are organized in ASCII tables.
- One table per day for each detection type, i.e. GDS, IS, GDS-IS, MBS.
- Telemetries are converted in engineering values.
- No check is performed on false or spurious detections.

Level 3:

- For the IS-only and GDS-IS detections:
  - For each mission phase (Dataset) a single ASCII table reporting only real detections (spurious detections removed) is provided.
  - In each ASCII table are reported the following information:
  - Detection type, i.e. IS-only and GDS-IS
  - Detection time
  - Individual particle physical parameters and their errors:
    - Momentum
    - Speed
    - Mass
- For the GDS-only detections the conversion to physical unit, i.e. signal to geometrical cross section, is not reported because depends on assumption on the optical properties of the particle.
- For the MBS measurements the physical parameters can be obtained using Level 2 tables and the conversion factor from engineering unit to physical provided in the GIADA archive.

GIADA Archive Products - what /how to use them:

- Use what/how you like from the GIADA archive to produce nice science.
- We would be happy if you keep us informed ☺.
- We are available for any clarification/information you need.
- We hope you will not be disappointed by the “GIADA super green”☺