

RAND/USGS Planetary Geodesy (RUPG) Software

RANDLSQ Program Measurement Input format

File: RUPG-FMT5001.doc

Version: 2004.08.08

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File input:

Group 1 ("nmea" records):

Name	Columns	Format	Description (units)
Imageid	1-10	A10	Image identification. Usually flight data sequence (FSC) or similar image number (unitless).
Focallength	11-25	F15.5	Camera focal length (mm).
Pointid	28-33	2X,A5	Point identification (unitless).
X measure	34-48	F15.5	X measurement of point on image (mm).
Y measure	49-63	F15.5	Y measurement of point on image (mm).

Sample (from Mars solution, mea030606.dat):

=> 03930825            52.26700      262            -3.69620            -3.14200<=

Notes:

1. "nmea" is the number of line/sample measurements of tie points. See the "Solution Parameterization" file (format RUPG-FMT5031.doc) for input of this.
2. A comment may appear after column 63 (e.g. a text comment or information on the pixel measurements).
3. Lines beginning with a "#" will eventually be treated as comments.
4. IMPORTANT: See format "RUPG-FMT5002.doc" for Lunar measurement files (e.g. measures from Lunar Orbiter, Apollo, Mariner 10, Galileo, Clementine lunar images), using 7 character Pointid.

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Reference: Model, program, and format generally follow that specified in:

Colvin, Tim R. (1992). "Photogrammetric Algorithms and Software for Spacecraft Optical Imaging Systems," \_ A RAND NOTE \_, N-3330-JPL.

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Document History:

Begun 2004.08.08 by B. Archinal

Modifications:

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