

Release Notes for GRACE L-2 products - version UTCSR RL-06

Last Product List Update: 2018-04-25 - Products for Jan 2003 to Aug 2016 released

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Note Date 2018-04-26

0) This note supersedes (replaces) all previous Release Notes pertaining to the UTCSR-RL06 Level-2 products.

1) UTCSR-RL05 Level-2 products are now defunct.

2) The list of RL-06 product files being made available to the users as of the date of this Release Note is given at the bottom of this message.

3) For each calendar month, in general four product files are available. For example, for the month of April 2005, the available products are:

GAC-2\_2006121-2006151\_GRAC\_UTCSR\_BC01\_0600

GAD-2\_2006121-2006151\_GRAC\_UTCSR\_BC01\_0600

GSM-2\_2006121-2006151\_GRAC\_UTCSR\_BA01\_0600

GSM-2\_2006121-2006151\_GRAC\_UTCSR\_BB01\_0600

4.1) The product file GSM-2\_2006121-2006151\_GRAC\_UTCSR\_????\_0600 contains the coefficients for the Earth gravity field for the indicated span.

\* The monthly gravity field solutions are unconstrained where the unconstrained gravity parameters are estimated separately from other orbit related parameters.

\* Coefficients are supplied to degree and order 60 (BA01) and 96 (BB01).

This is the highest degree that was solved from the data for each month.

\* The use of a suitable truncation or smoothing technique is recommended.

Examples are available in the literature. The selection of the smoothing technique and the highest degree are left to the user's discretion.

- \* ONLY the formal error standard deviations (sigmas) of the estimated geopotential harmonics are contained in the GSM-2\* products.

- \* Users desirous of replacing the C20 values of the GSM file with improved estimates are offered the option of using SLR-determined C20 values given in GRACE Technical Note - 11. Please see the CSR-L2 Proc Stds Doc and TN-11 for further information.

4.2) The product file GAC-2\_2006121-2006151\_GRAC\_UTCSR\_BC01\_0600 contains the average of the Release-06 AOD1B product for the same span as was used in creating the monthly solution to degree and order 180

- \* Although this file contains the degree 0 and degree 1 harmonics for completeness, these harmonics were NOT used in Level-2 data processing.

- \* The averaging is carried out over a whole number of days - regardless of whether full or partial day's data were used in creating the GRACE monthly solution.

- \* GAD-2\_2006121-2006151\_GRAC\_UTCSR\_BC01\_0600: This is an ancillary product that represents the mean ocean bottom pressure. Please review the AOD1B Product Description Document for its complete definition and usage guidelines. Over the oceans, maps of GAC and GAD products will look the same only if degree 0 and degree 1 terms are included while drawing both the maps. Note, however, that degree-0 and degree-1 of the AOD products (from which GAC is derived) were not used in Level-2 data processing. The GAD\* products were not used in GRACE data processing, and are provided only as a service to the user community.

5) Level-2 products starting from and higher than Release-06 are released with the new header. The new header is written in YAML syntax, and the old header has been discontinued.

6) Note the change in the filename convention from the previous versions:

A product name is specified as PID-2\_YYYYDOY-YYYYDOY\_dddd\_sssss\_mmmm\_rrvv

Where,

PID is 3-character product identification mnemonic

-2 denotes a GRACE Level-2 product

YYYYDOY-YYYYDOY specifies the date range (in year and day-of-year format)  
of the data used in creating this product

dddd specifies the gravity mission

sssss is an institution specific string

mmm is a 4-character mnemonic used to identify the characteristics of the  
gravity solution

rrvv is a 2-digit (leading-zero-padded) release number and 2-digit  
(leading zero-padded) version number

The Product Identifier mnemonic (PID) is made up of one of the following values for  
each of its 3 characters:

1st Character

= G: Geopotential coefficients

2nd Character

= S: Estimate made from only GRACE data

= C: Combination estimate from GRACE and terrestrial gravity information

= A: Average of any background model over a time period

### 3rd Character

- = M: Estimate of the Static field.
- = U: Geopotential estimate relative to the background gravity model
- = A: non-tidal atmosphere (see AOD1B Description Doc)
- = B: non-tidal Oceans (see AOD1B Description Doc)
- = C: combination of non-tidal atmosphere and ocean (see AOD1B Description Doc)
- = D: bottom-pressure over oceans, zero over land (see AOD1B Description Doc)

The "~~~~" string specifies the gravity mission:

- = GRAC: Gravity Recovery and Climate Experiment

The "sssss" string specifies the institute where the data were processed:

- = UTCSR: The University of Texas at Austin Center for Space Research
- = JPLEM: NASA Jet Propulsion Laboratory
- = GFZOP: GFZ German Research Center for Geosciences

The "mmmm" string is a 4-character mnemonic used to characterize the gravity solution.

The first character is used to identify the primary observation type used in the gravity solution (Note: MWI = Micro Wave Instrument). The second character defines the size of the spherical harmonic expansion in the file. The third and fourth characters are used to represent other characteristics of the gravity solution, including the type of basis function used, whether it is an unconstrained or constrained solution, and the type of windowing function used. For any files that describe the average of a background model (where "A" is the 2nd character in the PID), only the 2nd character in the "mmmm" string

is defined/applicable. The 1st, 3rd, and 4th characters are set to be equivalent to the corresponding gravity solution.

#### 1st Character

- = A: MWI range data
- = B: MWI range-rate data
- = C: MWI range-acceleration data

#### 2nd Character

- = A: 60 x 60 spherical harmonic expansion
- = B: 96 x 96 spherical harmonic expansion
- = C: 180 x 180 spherical harmonic expansion
- = D: 60 x 30 spherical harmonic expansion

#### 3rd and 4th Characters

- = 01: unconstrained spherical harmonic solution with a boxcar windowing function

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LIST OF AVAILABLE PRODUCTS: (see date of last update on Line-2 of this file)

GAC-2\_2003001-2003031\_GRAC\_UTCSR\_BC01\_0600  
GAD-2\_2003001-2003031\_GRAC\_UTCSR\_BC01\_0600  
GSM-2\_2003001-2003031\_GRAC\_UTCSR\_BA01\_0600  
GSM-2\_2003001-2003031\_GRAC\_UTCSR\_BB01\_0600  
GAC-2\_2003032-2003059\_GRAC\_UTCSR\_BC01\_0600

GAD-2\_2003032-2003059\_GRAC\_UTCSR\_BC01\_0600  
GSM-2\_2003032-2003059\_GRAC\_UTCSR\_BA01\_0600  
GSM-2\_2003032-2003059\_GRAC\_UTCSR\_BB01\_0600  
GAC-2\_2003060-2003090\_GRAC\_UTCSR\_BC01\_0600  
GAD-2\_2003060-2003090\_GRAC\_UTCSR\_BC01\_0600  
GSM-2\_2003060-2003090\_GRAC\_UTCSR\_BA01\_0600  
GSM-2\_2003060-2003090\_GRAC\_UTCSR\_BB01\_0600  
GAC-2\_2003091-2003120\_GRAC\_UTCSR\_BC01\_0600  
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GSM-2\_2003091-2003120\_GRAC\_UTCSR\_BA01\_0600  
GSM-2\_2003091-2003120\_GRAC\_UTCSR\_BB01\_0600  
GAC-2\_2003121-2003141\_GRAC\_UTCSR\_BC01\_0600  
GAD-2\_2003121-2003141\_GRAC\_UTCSR\_BC01\_0600  
GSM-2\_2003121-2003141\_GRAC\_UTCSR\_BA01\_0600  
GSM-2\_2003121-2003141\_GRAC\_UTCSR\_BB01\_0600  
GAC-2\_2003182-2003212\_GRAC\_UTCSR\_BC01\_0600  
GAD-2\_2003182-2003212\_GRAC\_UTCSR\_BC01\_0600  
GSM-2\_2003182-2003212\_GRAC\_UTCSR\_BA01\_0600  
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GAC-2\_2003213-2003243\_GRAC\_UTCSR\_BC01\_0600  
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GAC-2\_2003244-2003273\_GRAC\_UTCSR\_BC01\_0600  
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GAD-2\_2003274-2003304\_GRAC\_UTCSR\_BC01\_0600

GSM-2\_2003274-2003304\_GRAC\_UTCSR\_BA01\_0600  
GSM-2\_2003274-2003304\_GRAC\_UTCSR\_BB01\_0600  
GAC-2\_2003305-2003334\_GRAC\_UTCSR\_BC01\_0600  
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GSM-2\_2003305-2003334\_GRAC\_UTCSR\_BA01\_0600  
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GAC-2\_2004001-2004013\_GRAC\_UTCSR\_BC01\_0600  
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GAD-2\_2006274-2006304\_GRAC\_UTCSR\_BC01\_0600  
GSM-2\_2006274-2006304\_GRAC\_UTCSR\_BA01\_0600

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GSM-2\_2006305-2006334\_GRAC\_UTCSR\_BA01\_0600  
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GSM-2\_2007121-2007151\_GRAC\_UTCSR\_BA01\_0600  
GSM-2\_2007121-2007151\_GRAC\_UTCSR\_BB01\_0600

GAC-2\_2007152-2007181\_GRAC\_UTCSR\_BC01\_0600  
GAD-2\_2007152-2007181\_GRAC\_UTCSR\_BC01\_0600  
GSM-2\_2007152-2007181\_GRAC\_UTCSR\_BA01\_0600  
GSM-2\_2007152-2007181\_GRAC\_UTCSR\_BB01\_0600  
GAC-2\_2007182-2007212\_GRAC\_UTCSR\_BC01\_0600  
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GSM-2\_2007244-2007273\_GRAC\_UTCSR\_BA01\_0600  
GSM-2\_2007244-2007273\_GRAC\_UTCSR\_BB01\_0600  
GAC-2\_2007274-2007304\_GRAC\_UTCSR\_BC01\_0600  
GAD-2\_2007274-2007304\_GRAC\_UTCSR\_BC01\_0600  
GSM-2\_2007274-2007304\_GRAC\_UTCSR\_BA01\_0600  
GSM-2\_2007274-2007304\_GRAC\_UTCSR\_BB01\_0600  
GAC-2\_2007305-2007334\_GRAC\_UTCSR\_BC01\_0600  
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GSM-2\_2007305-2007334\_GRAC\_UTCSR\_BB01\_0600  
GAC-2\_2007335-2007365\_GRAC\_UTCSR\_BC01\_0600  
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GSM-2\_2008001-2008031\_GRAC\_UTCSR\_BB01\_0600  
GAC-2\_2008032-2008060\_GRAC\_UTCSR\_BC01\_0600  
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