GRACE Technical Note 13

TITLE:

Monthly estimates of degree-1 (geocenter) gravity coefficients, generated from

GRACE (04-2002 - 06/2017) and GRACE-FO (06/2018 onward) RL0603 solutions.

Last reported data point: 16-Sep-2025.

UPDATE HISTORY:

Created/updated 20-Nov-2025 18:38:18.

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REFERENCES:

Sun, Y., R. Riva, and P. Ditmar (2016), Optimizing estimates of annual variations and

trends in geocenter motion and J2 from a combination of GRACE data and geophysical

models, J. Geophys. Res. Solid Earth, 121, doi:10.1002/2016JB013073.

Swenson, S., D. Chambers, and J. Wahr 2008 Estimating geocenter variations from a

combination of GRACE and ocean model output, J. Geophys. Res., 113, B08410,

doi:10.1029/2007JB005338.

DESCRIPTION:

This file contains estimates of degree-1 gravity coefficients for the GRACE Release-06 data,

based on ocean and atmospheric models and GRACE coefficients for degrees 2 and higher.

The original method was developed by [Swenson et al., 2008], and subsequently expanded

by

[Sun et al., 2016] to include the effects of the barystatic sea level fingerprint (i.e.,

solving the sea level equation using land mass changes as measured by GRACE) in the ocean mass

contribution to degree-1.

The implementation for degree-1 coefficients below uses the optimal parameter values as

described in [Sun et al., 2016]. These coefficients represent the degree 1 gravity

coefficients that should be added to the GSM coefficients to correct for geocenter motion,

relative to the modeled atmosphere and ocean degree 1 coefficients (e.g., GAC and GAD). The

coefficients have been normalized using the GRACE standards. Prior to the inversion for

degree-1, GRACE-C20 has been replaced with the SLR-C20 (TN-14), and GIA has been corrected

with ICE6G-D.

To use for land applications or to compute global ocean mass, use these coefficients along

with GRACE GSM coefficients for degrees 2 and higher, along with a Degree 1 Love number

(k1) = 0.021.

For ocean applications, add the degree 1 values found in the ocean bottom pressure product

(GAD) to these values. If you are interested in the full ocean, land, atmosphere geocenter,

add the degree 1 values of the atmosphere/ocean product (GAC) to these values.

SPECIAL NOTES:

    1) Reported values are derived from geopotential anomalies relative to GGM05C (epoch: 2008-01-01)

       NOTE: A previous version from 04/2019 had an inconsistent epoch removed - please update all

      data with the most recent version

    2) The 1-sigma errors are based on Tab.1 of [Sun et al., 2016]

3) The native GRACE & GRACE-FO C20 coefficient has been replaced with SLR-C20 (TN-14v3)

4) GIA has been corrected for subtracting the ICE6G-D (Peltier et al., 2018) prior to the degree-1 inversion

5) From 06/2019 on, C30 in GRACE-FO has been replaced with SLR-C30 (TN-14v3)

FORMAT:

The data format is similar to that for GSM, GAD, and GAC files distributed by PODAAC, see GRACE Level-2 handbook for more information.

EGM Coefficient Record 2
variables:
record_key:
key_name   : GRCOF2
long_name   : Earth Gravity Spherical Harmonic Model Format Type
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comment   : 1st column
degree_index:
long_name   : spherical harmonic degree l
coverage_content_type : referenceInformation
data_type   : int32
comment   : 2nd column
order_index:
long_name   : spherical harmonic order m
coverage_content_type : referenceInformation
data_type   : int32
comment   : 3rd column
clm:

long_name   : Clm coefficient; cosine coefficient for degree l and order m

    data_type   : double precision

    comment   : 4th column

slm:

 long_name   : Slm coefficient; sine coefficient for degree l and order m

 data_type   : double precision

 comment   : 5th column

clm_std_dev:

 long_name   : standard deviation of Clm

 coverage_content_type : qualityInformation

 data_type   : double precision

 comment   : 6th column;

slm_std_dev:

 long_name   : standard deviation of Slm

 coverage_content_type : qualityInformation

 data_type   : double precision

 comment   : 7th column;

epoch_begin_time:

 long_name   : epoch begin of Clm, Slm coefficients

 time_format   : yyyymmdd.hhmm

 coverage_content_type : referenceInformation

 data_type   : string

 comment   : 8th column

epoch_stop_time:

 long_name   : epoch stop of Clm, Slm coefficients

 time_format   : yyyymmdd.hhmm

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 data_type   : string

 comment   : 9th column

solution_flags:

  long_name   : Comment when present

  coverage_content_type : referenceInformation

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  comment   : 10th column

end of header
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