GRACE-FO L1 DATA AVAILABILITY

A complete L1A/L1B data set is available since initial switch on of the instruments, except for the following days:

- 2018, July 19 - Oct 21
- 2019, Feb 8 - Feb 20
- 2020, Jan 19 - Jan 23
- 2020, Feb 8 - Feb 12

LEVEL-1 DATA DOCUMENTATION & ACCESS

- GRACE-FO Level-1 Handbook (Link)
- GRACE-FO Level-1 Release Notes (Link)
- GRACE-FO Calibrated Accelerometer Data Products (ACT) (Link)
- GRACE-FO Sequence Of Events file (SOE) (Link)
- Data download: PO.DAAC & SDS
  - https://podcat.jpl.nasa.gov/GRACE-FO
  - https://iodc.gfz-potsdam.de/grace-fo-iodc/

Summary of level-1 processing:

- GRACE-FO Level-1 processing is based on GPS and KBR data.
- The processing includes:
  - GPS clock synchronization on overlapping arcs
  - Spacecraft trajectory comparison between overlapping consecutive orbit arcs

Performance consistent and meets expectations

- Δtd = \( (\frac{d}{\rho_{GRACE}}) - (\frac{d}{\rho_{KBR}}) \)
- Δ\(dt\) - clock double difference
- Inter-satellite range difference between the current and the next day using the overlap data for GF-1 and GF-2, resp.

<table>
<thead>
<tr>
<th>Year</th>
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<tbody>
<tr>
<td>2002 V02</td>
</tr>
<tr>
<td>2003 V03</td>
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<tr>
<td>2019 V04</td>
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Note: The elevated GRACE-FO values starting from 2020-02-14 are due to change of the signal power of the GPS satellites.