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February 2012**

Author : **GOCE Quality Control Team**

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1. INTRODUCTION

1.1 Purpose and Scope

This document contains the Quality report for GOCE L1b data for February 2012.

The latest version of this document is available on the GOCE Data Quality portal at:

<http://earth.esa.int/GOCE/> → “Level 1b QC” → “Monthly”

The GOCE Data Quality portal is the principal source for any quality-related information on GOCE products.

<http://earth.esa.int/GOCE/> → “Level 1b QC”.

1.2 Glossary

The following acronyms and abbreviations have been used in this report.

ABBREVIATION	MEANING
EGG	Electrostatic Gravity Gradiometer
DFACS	Drag Free and Attitude control system
SST-I	Satellite-to-satellite tracking instrument
CTR	Control Voltages
STR	Star Tracker
Trace SD	Trace Spectral Density
ICM	Inverse Calibration Matrix
GAR	Gradiometer Angular Rates
FPM	Fine Pointing Mode

2. FEBRUARY 2012 OVERVIEW

- 08-Feb-12 Anomalous oscillation found in diagonal components of the gravity gradient tensor with impacts on trace at UTC 05:55:25
- 21-Feb-12 Beam Out event at UTC 19:09:53

3. FEBRUARY 2012 DATA QUALITY ANALYSIS

3.1 Gradients anomaly on 08th February

An anomalous oscillation occurred on 08th February at UTC 05:55:25 with impacts on trace as reported below:

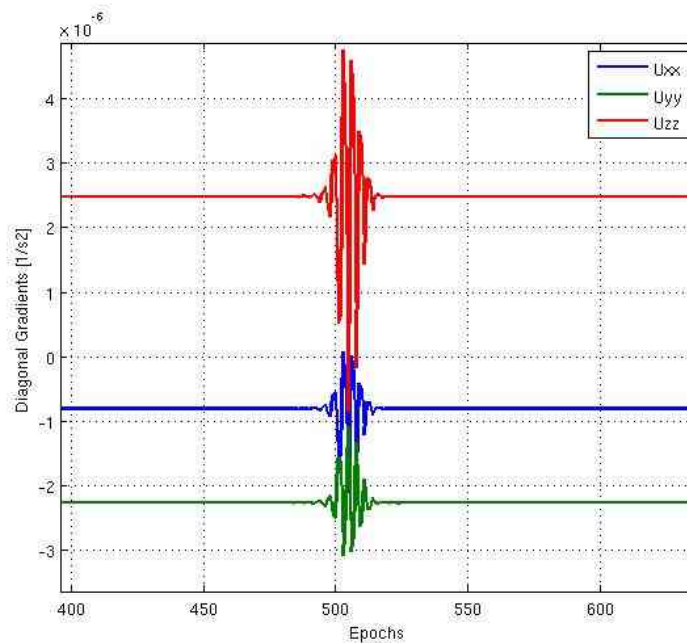


Figure 1 Gradients anomaly

3.2 Beam Out events

The following Beam Out events occurred during February 2012 reference frame:

EVENT	UTC TIME
21-Feb-12	Beam Out event at UTC 19:09:53

Table 1 Beam out events

Below, the effects of the Beam Out in the common mode acceleration, component 14_x, for the 21st February event, is displayed (the effect is the same for all the events).

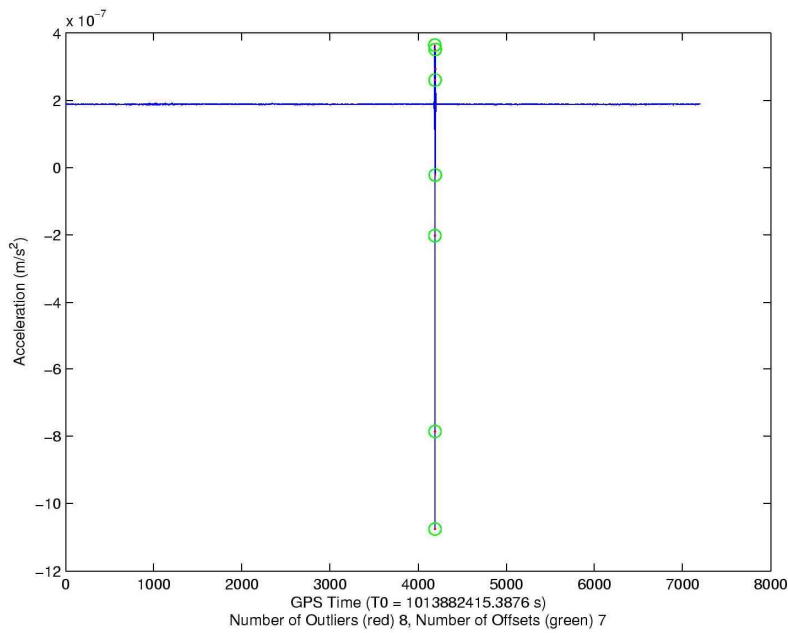


Figure 2 Beam Out event on 21st of February

The Beam Out event enters in the gradients time series notably in the Uxx component without any relevant impacts on performance.