

<b>Issue Date</b>	:	<b>24 October 2012</b>
<b>Issue</b>	:	<b>1.0</b>

**Title** : **GOCE L1b Data Quality Control Report  
May 2012**

**Author** : **GOCE Quality Control Team**

**Distribution** : **GOCE Users Community**



## DOCUMENT CHANGE RECORD

Issue	Date	Reason for Change	Changed Pages/Paragraphs
1.0	24/10/2012	First issue	



## TABLE OF CONTENTS

<b>1. INTRODUCTION .....</b>	<b>4</b>
1.1 Purpose and Scope .....	4
1.2 Glossary.....	4
<b>2. MAY 2012 OVERVIEW.....</b>	<b>5</b>
<b>3. MAY 2012 DATA QUALITY ANALYSIS .....</b>	<b>5</b>
3.1 Instrument Calibration .....	5
3.2 Beam Out events.....	5

## 1. INTRODUCTION

### 1.1 Purpose and Scope

This document contains the Quality report for GOCE L1b data for May 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
MBW	Measurement Bandwidth

## 2. MAY 2012 OVERVIEW

<b>05-May-12</b>	Beam Out event at UTC 09:23:06
<b>10-May-12</b>	Beam Out event at UTC 00:08:40
<b>22-May to 23-May-12</b>	Calibration

## 3. MAY 2012 DATA QUALITY ANALYSIS

### 3.1 Instrument Calibration

Special Spacecraft Operations for Instrument Calibration were performed on 23<sup>rd</sup> August 2011, from

- to
- 20120522T054026
  - 20120523T053604

EGG\_NOM\_1b data are unavailable during this period, i.e. between products:

- and
- GO\_CONS\_EGG\_NOM\_1b\_20120522T041043\_20120522T054026
  - GO\_CONS\_EGG\_NOM\_1b\_20120523T053604\_20120523T070548

### 3.2 Beam Out events

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

EVENT	UTC TIME
<b>05-May-12</b>	Beam Out event at UTC 09:23:06
<b>10-May-12</b>	Beam Out event at UTC 00:08:40

**Table 1 Beam out events**

The effects of a Beam Out event are clearly visible in the common mode acceleration, component 14\_x, as a sharp peak in the acceleration values. The effect is the same as reported in previous monthly reports.

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