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**Title** : **GOCE L1b Data Quality Control Report  
October 2013**

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## DOCUMENT CHANGE RECORD

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## 1. INTRODUCTION

### 1.1 Purpose and Scope

This document contains the Quality report for GOCE L1b data for October 2013.

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. OCTOBER 2013 OVERVIEW

1-Oct to 02-Oct 13      EGG instrument calibration.  
21-Oct-13                FPM Entry. EGG in acquisition mode. End of science operations.

## 3. OCTOBER 2013 DATA QUALITY ANALYSIS

### 3.1 Instrument calibration

Special Spacecraft Operations for Instrument Calibration were performed on 1<sup>st</sup> October 2013, from

- 20131001T012349

to

- 20131002T113319

Nominal EGG data are not available between the two times above.

### 3.2 End of science operations

On 21<sup>st</sup> October the ion propulsion system ran out of fuel after >4 years of drag-free flight. The final phase of flight operations started: the spacecraft has been kept operating as long as possible, up to when the harsh environmental conditions at extremely low altitudes rendered it impossible to continue.

Re-entry has been followed shortly thereafter and the EGG instrument was brought to Acquisition mode ending the science operations.