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April 2013**

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TABLE OF CONTENTS

1. INTRODUCTION	4
1.1 Purpose and Scope	4
1.2 Glossary	4
2. APRIL 2013 OVERVIEW	5
3. APRIL 2013 DATA QUALITY ANALYSIS.....	5
3.1 High drag and geomagnetic storm on 29 th of March	Error! Bookmark not defined.
3.2 Beam Out events.....	5

1. INTRODUCTION

1.1 Purpose and Scope

This document contains the Quality report for GOCE L1b data for April 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. APRIL 2013 OVERVIEW

04-Apr-13 Beam Out event at UTC 23:43:06
09-Apr-13 Beam Out event at UTC 16:07:58

3. APRIL 2013 DATA QUALITY ANALYSIS

3.1 Beam Out events

The following Beam Out events occurred during April 2013 reference frame:

EVENT	UTC TIME
04-Apr-13	Beam Out event at UTC 23:43:06
09-Apr-13	Beam Out event at UTC 16:07:58

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.