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**Title** : **GOCE L1b Data Quality Control Report  
November 2009**

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



## DOCUMENT CHANGE RECORD

Issue	Date	Reason for Change	Changed Pages/Paragraphs
1.0	21/06/2010	First issue	
2.0	14/10/2010	Format Update	All
3.0	07/05/2012	Reprocessing EGG V5.0	Par. 3, 4, 5



## TABLE OF CONTENTS

<b>1. INTRODUCTION .....</b>	<b>4</b>
1.1 Purpose and Scope .....	4
1.2 Glossary .....	4
<b>2. DATA QUALITY OVERVIEW.....</b>	<b>5</b>
2.2 EGG data - Available Baselines .....	5
<b>3. EGG DATA QUALITY: SPACECRAFT AND ENVIRONMENT-RELATED EVENTS .....</b>	<b>6</b>
3.1 Summary.....	6
<b>4. EGG DATA QUALITY– EGG V5 BASELINE .....</b>	<b>6</b>
<b>5. EGG DATA QUALITY– EGG V4 BASELINE .....</b>	<b>6</b>
5.1 EGG missing epochs analysis .....	6
5.1.1 Missing epoch on 18/11/2009.....	6
5.1.2 Missing epoch on 22/11/2009.....	6
5.2 SST Missing epochs analysis .....	7
5.2.1 Missing epochs on 27/11/2009 .....	7

## 1. INTRODUCTION

### 1.1 Purpose and Scope

This document contains the Quality report for GOCE L1b data for November 2009.

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

## 2. DATA QUALITY OVERVIEW


### 2.1 Instrument data quality summary tables

Nov 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Table 1 November 2009 EGG QC Status

Nov 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Table 2 November 2009 SST QC Status

	GAP (details within Monthly Report)
	NOT USABLE
	Special Event
	Nominal
	Calibration
	EGG in Acquisition Mode
	Not yet released

### 2.2 EGG data - Available Baselines

Baseline	EGG Processor	SST processor
Baseline D	EGG v5 (> 5.06) installed 31/03/2012	V02.18 Patch B Installed 20/01/2011
Baseline A	EGG v4 (<4.8) Installed 18/05/2010	V02.18 Patch B Installed 20/01/2011

Baseline may be verified by reading out the <Creator\_Version> tag in the file header, e.g:

<Creator\_Version>05.06</Creator\_Version>

(for the latest baseline)

- EGG v5 reprocessed baseline is available through the GOCE Virtual On-line Archive  
 → <http://eo-virtual-archive1.esa.int/Index.html>
- EGG v4 is the older baseline. Products are still accessible through the GOCE Virtual On-line Archive

### 3. EGG DATA QUALITY: SPACECRAFT AND ENVIRONMENT-RELATED EVENTS

#### 3.1 Summary

No special events occurred during November 2009 reference period.

### 4. EGG DATA QUALITY– EGG V5 BASELINE

Missing epochs reported in chapter 5 have been recovered in the reprocessed products.

### 5. EGG DATA QUALITY– EGG V4 BASELINE

#### 5.1 EGG missing epochs analysis

##### 5.1.1 Missing epoch on 18/11/2009

DAY	MISSING EPOCH	MISSING EPOCH UTC	Notes
18/11/2009	1	23:30:57	

One missing epoch between the products:

GO\_CONS\_EGG\_NOM\_1b\_20091118T220113\_20091118T233057\_0002  
 GO\_CONS\_EGG\_NOM\_1b\_20091118T233057\_20091119T010041\_0002

No missing epochs found in L0 data for this reference period.

##### 5.1.2 Missing epoch on 22/11/2009

DAY	MISSING EPOCH	MISSING EPOCH UTC	Notes
22/11/2009	1	00:47:38	

One missing epoch between the products:

GO\_CONS\_EGG\_NOM\_1b\_20091121T231754\_20091122T004738\_0002  
 GO\_CONS\_EGG\_NOM\_1b\_20091122T004738\_20091122T021722\_0002

No missing epochs found in L0 data for this reference period.

## 5.2 SST Missing epochs analysis

### 5.2.1 Missing epochs on 27/11/2009

DAY	MISSING EPOCH	MISSING EPOCH UTC	Notes
27/11/2009	3	13:20:03 15:38:19 17:08:23	

Gaps within the products:

GO\_CONS\_SST\_NOM\_1b\_20091127T122346\_20091127T135330\_0001

GO\_CONS\_SST\_NOM\_1b\_20091127T152313\_20091127T165257\_0001

GO\_CONS\_SST\_NOM\_1b\_20091127T165257\_20091127T182241\_0001