

R O S E T T A
FLIGHT REPORTS
of RPC-MAG

RO-IGEP-TR-0026

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OVERVIEW OF
AVAILABLE RPCMAG DATA
AND
DATA QUALITY ASSESSMENT

Mission Phases: CR4A
Time Period: February 2008 - August 2008

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| R O S E T T A | Document: RO-IGEP-TR-0026 Issue: 2 |
| IGEP Institut für Geophysik u. extraterr. Physik Technische Universität Braunschweig | Revision: 0 Date: December 22, 2010 Page: I |

Contents

| | |
|-----------------------|----------|
| 1 Introduction | 1 |
| 2 2008 | 2 |

| | |
|---|--|
| R O S E T T A | Document: RO-IGEP-TR-0026 Issue: 2 Revision: 0 |
| IGEP Institut für Geophysik u. extraterr. Physik Technische Universität Braunschweig | Date: December 22, 2010 Page: 1 |

1 Introduction

This document contains information about all available data and its quality for the time period between January 2008 until August 2008. This covers this Mission Phase CR4A which is also called CRUISE4-1.

The only time where RPCMAG was switched on was in July 2008 during the Passive Checkout PC8 and the Interference Campaign.

For every day where measurement data are available overview plots have been created. The data availability plots show all data calibration levels being available. For RESAMPLED data the average interval is listed as well. An overview table of available data completes the data overview.

Additionally for each measurement day two plots of calibrated LEVEL_F data (s/c coordinates) are available. These plots show

- the OB and IB data and
- the differences of OB-IB

In these plots the phases where the sensors are not in thermal equilibrium have been marked as red areas. The assessment indicator I of these "BAD INTERVALS" has been derived from the first derivative of the difference of the sensor temperatures

$$I = \frac{\partial(T_{\text{OB}} - T_{\text{IB}})}{\partial t}$$

Areas are marked red if I exceeds a certain level.

The science modes of the data are distinguished by different colors.

This document shall give a quick overview of all data available

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|---|---------------------------|
| R O S E T T A | Document: RO-IGEP-TR-0026 |
| IGEP Institut für Geophysik u. extraterr. Physik Technische Universität Braunschweig | Issue: 2 |
| | Revision: 0 |
| | Date: December 22, 2010 |
| | Page: 2 |

2 2008

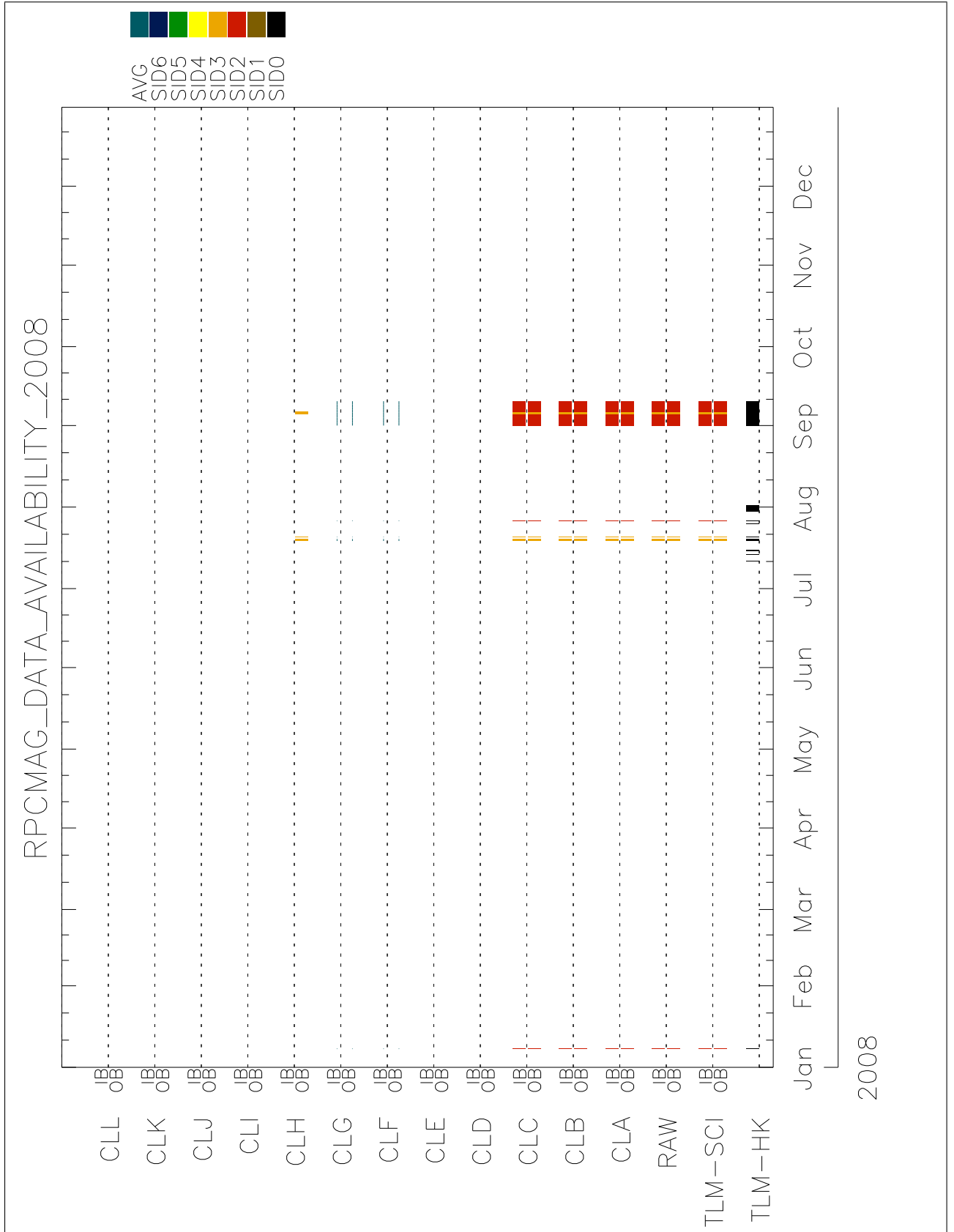


Figure 1: Overview 2008

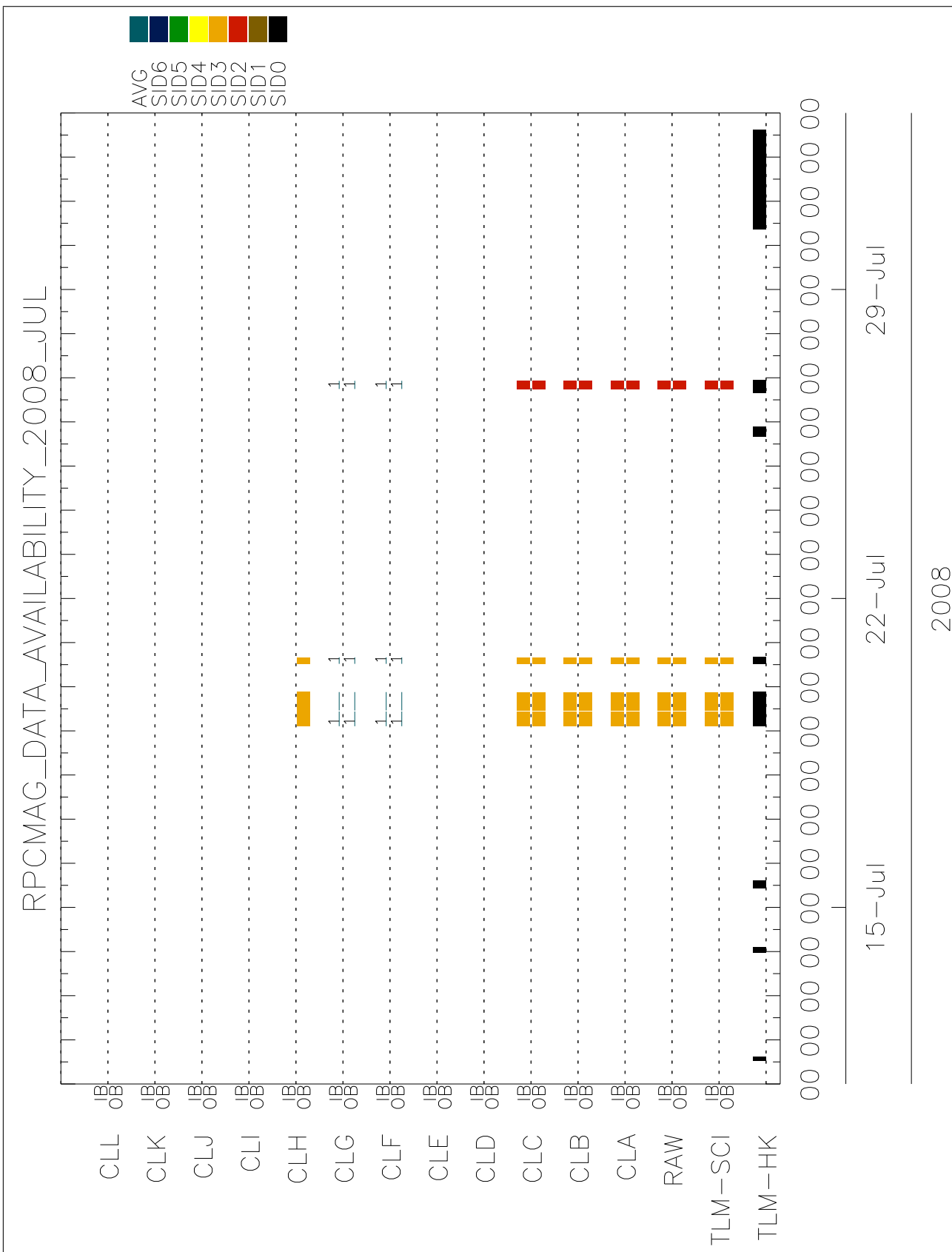


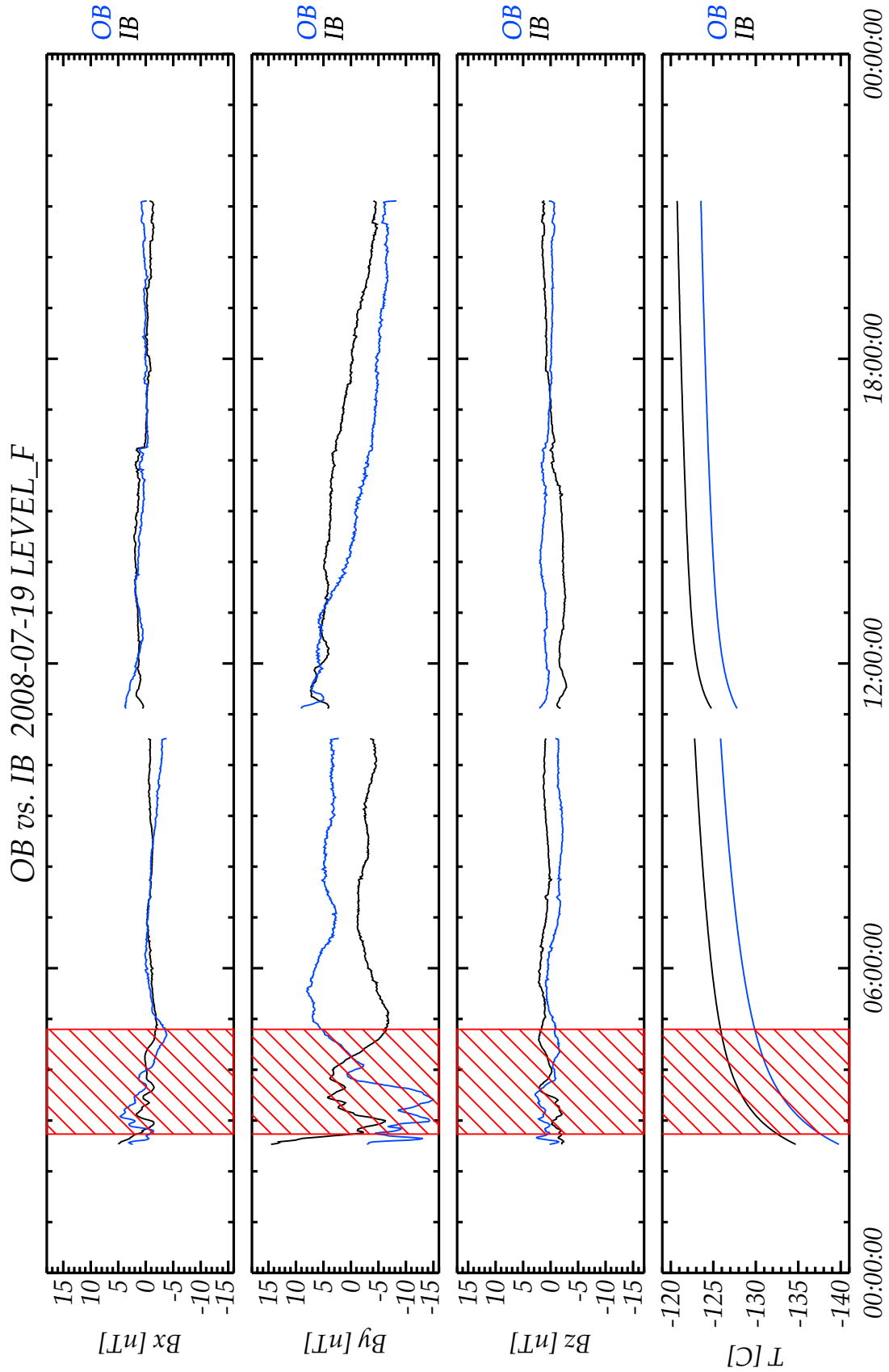
Figure 2: Overview July 2008

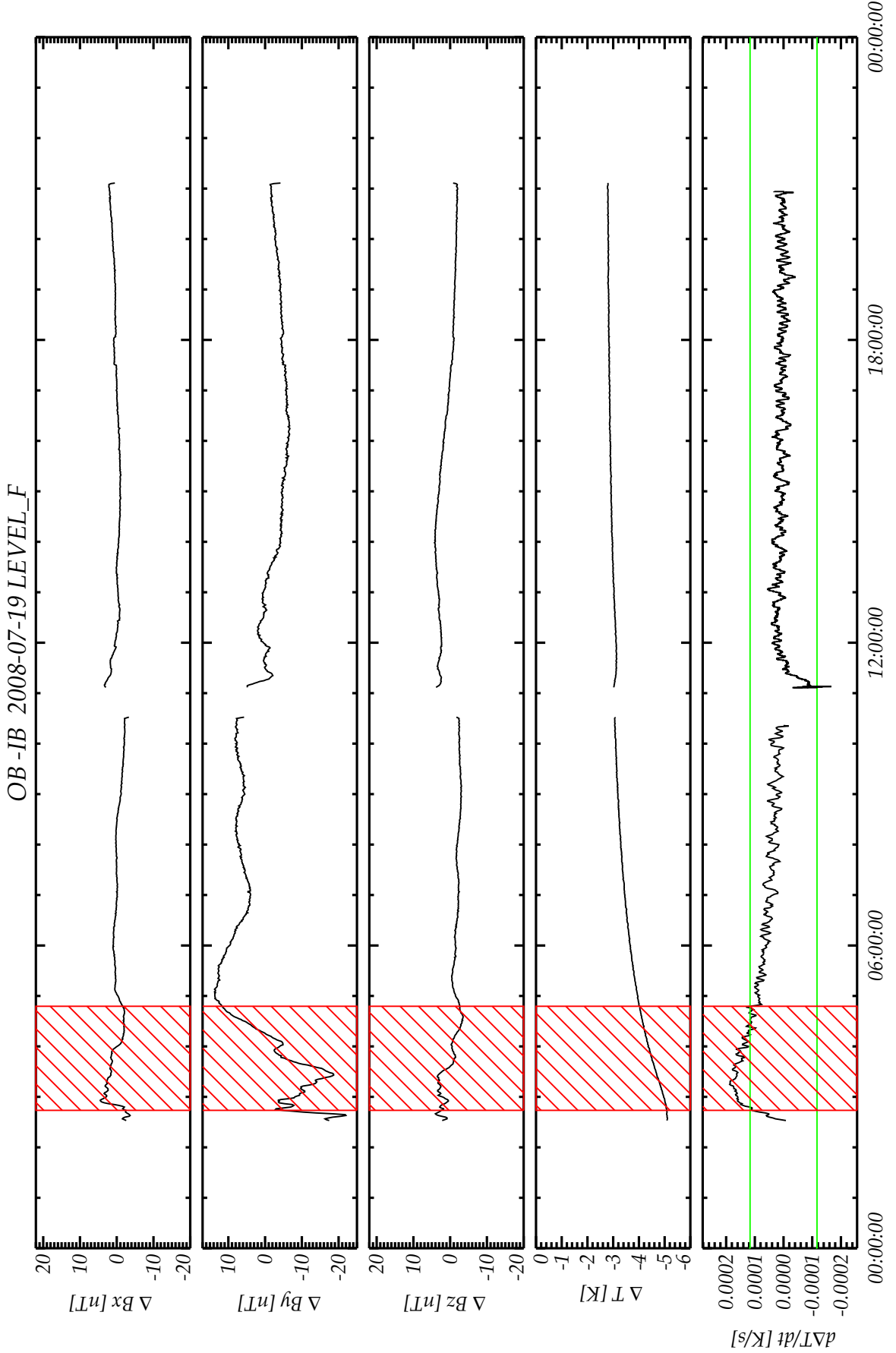
R O S E T T A

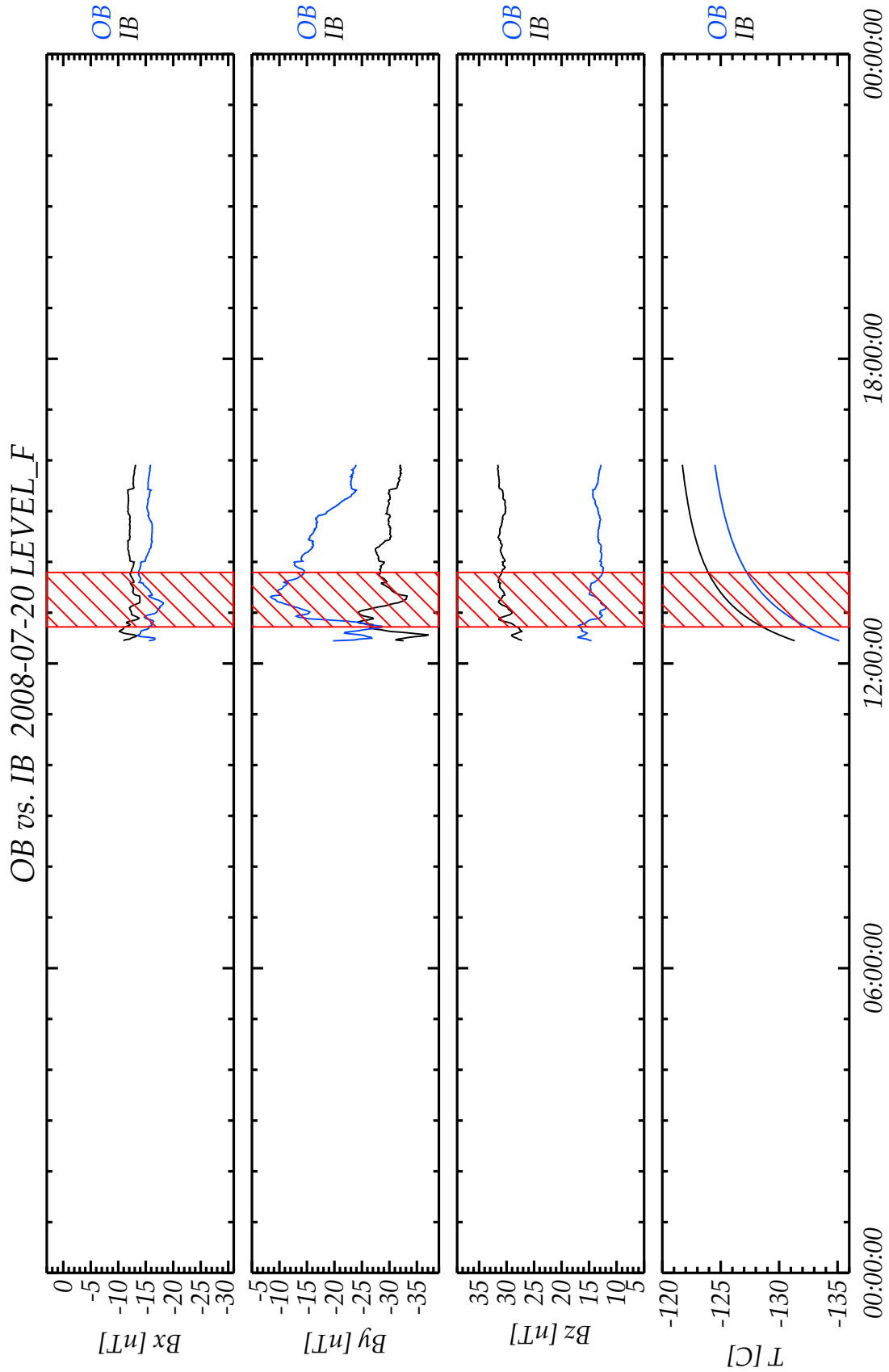
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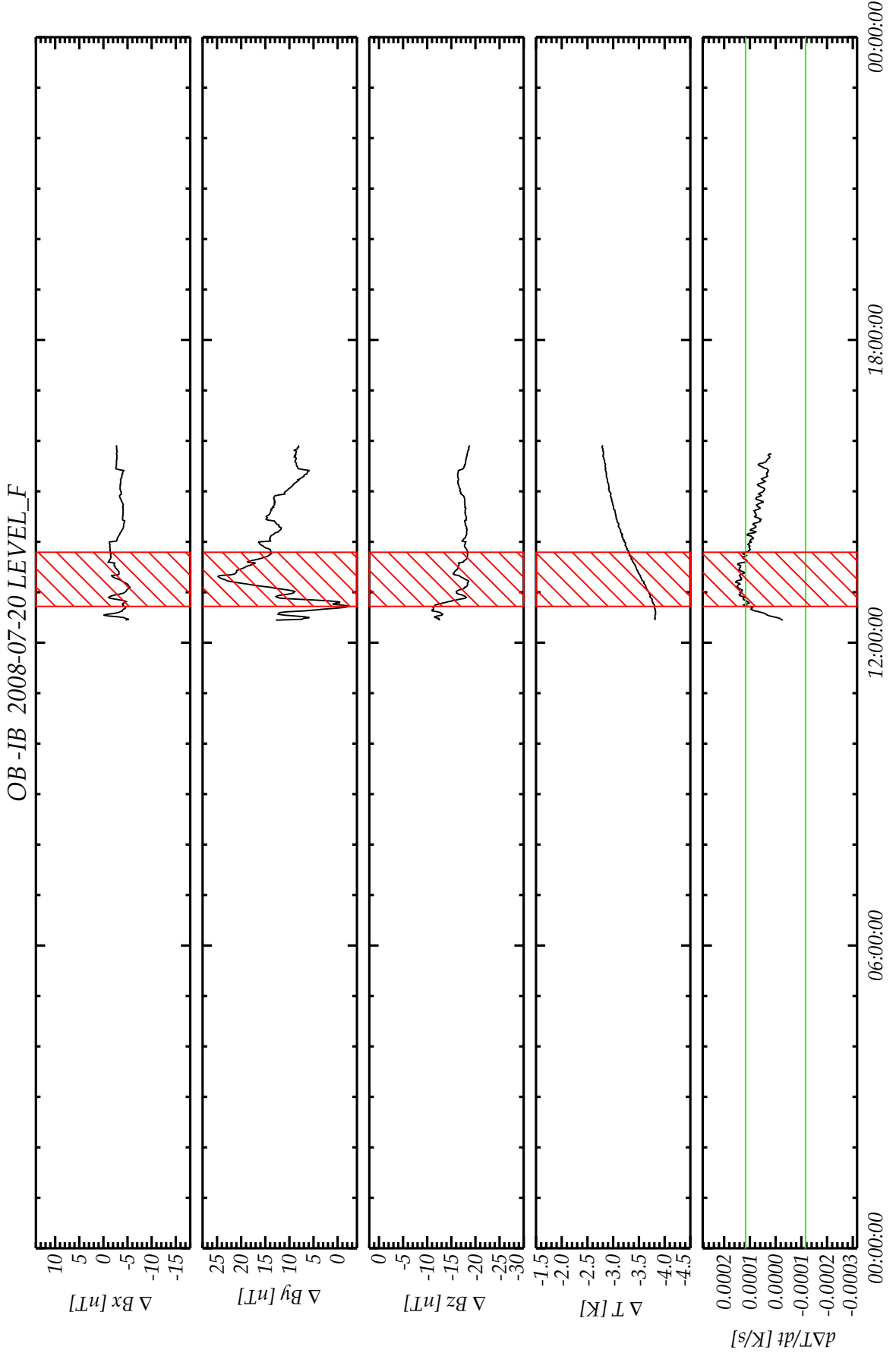
Document: RO-IGEP-TR-0026
Issue: 2
Revision: 0
Date: December 22, 2010
Page: 5

| DATE | LEVEL | AVERAGE [s] | SENSOR |
|------------|-------|----------------|--------|
| 2008-07-19 | CLG | 1 | OB |
| 2008-07-19 | CLF | 1 | OB |
| 2008-07-19 | CLG | 1 | IB |
| 2008-07-19 | CLF | 1 | IB |
| 2008-07-20 | CLF | 1 | OB |
| 2008-07-20 | CLG | 1 | OB |
| 2008-07-20 | CLF | 1 | IB |
| 2008-07-20 | CLG | 1 | IB |
| 2008-07-26 | CLG | 1 | OB |
| 2008-07-26 | CLF | 1 | OB |
| 2008-07-26 | CLF | 1 | IB |
| 2008-07-26 | CLG | 1 | IB |









OB vs. IB 2008-07-26 LEVEL_F

