

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

RO-IGEP-TR-0032

Issue: 1 Revision: 0

January 22, 2010

OVERVIEW OF
AVAILABLE RPCMAG DATA
AND
DATA QUALITY ASSESSMENT

Mission Phases: EAR3
Time Period: March 2009 - December 2009

Ingo Richter

Institut für Geophysik und extraterrestrische Physik
Technische Universität Braunschweig
Mendelssohnstraße 3, 38106 Braunschweig
Germany

R O S E T T A	Document: RO-IGEP-TR-0032 Issue: 1
IGEP Institut für Geophysik u. extraterr. Physik Technische Universität Braunschweig	Revision: 0 Date: January 22, 2010 Page: I

Contents

1 Introduction	1
2 2009	2

R O S E T T A	Document: RO-IGEP-TR-0032
	Issue: 1
	Revision: 0
IGEP	Date: January 22, 2010
Institut für Geophysik u. extraterr. Physik Technische Universität Braunschweig	Page: 1

1 Introduction

This document contains information about all available data and its quality for the time period between March 2009 until December 2009. This covers this Mission Phase EAR3.

This time interval covers the campaigns

- Active Checkout PC10 in September 2009
- Earth Swingby No. 3, ESB3, in November 2009

For all the year, the months and days 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

R O S E T T A	Document: RO-IGEP-TR-0032
IGEP Institut für Geophysik u. extraterr. Physik Technische Universität Braunschweig	Issue: 1 Revision: 0 Date: January 22, 2010 Page: 2

2 2009

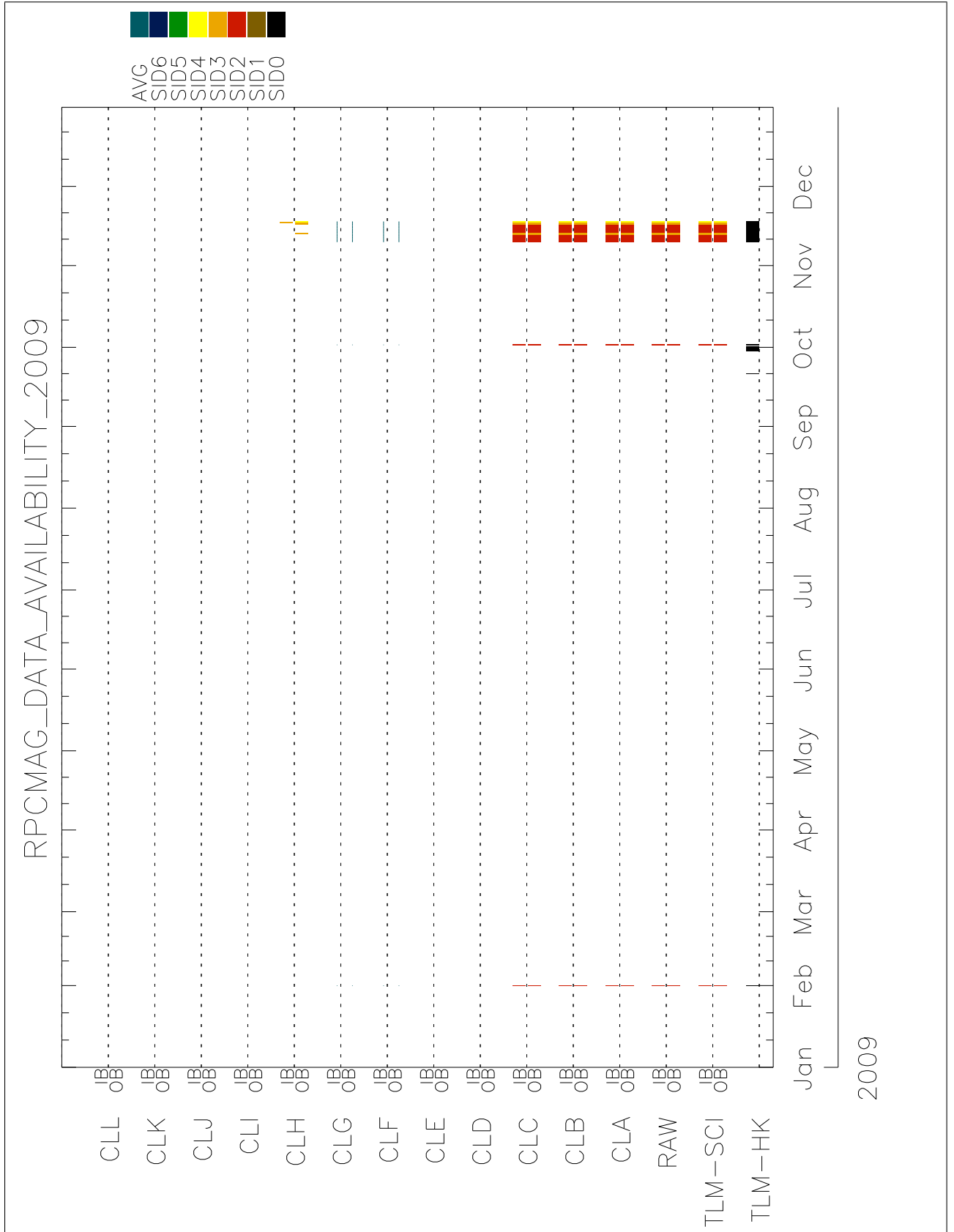


Figure 1: Overview 2009

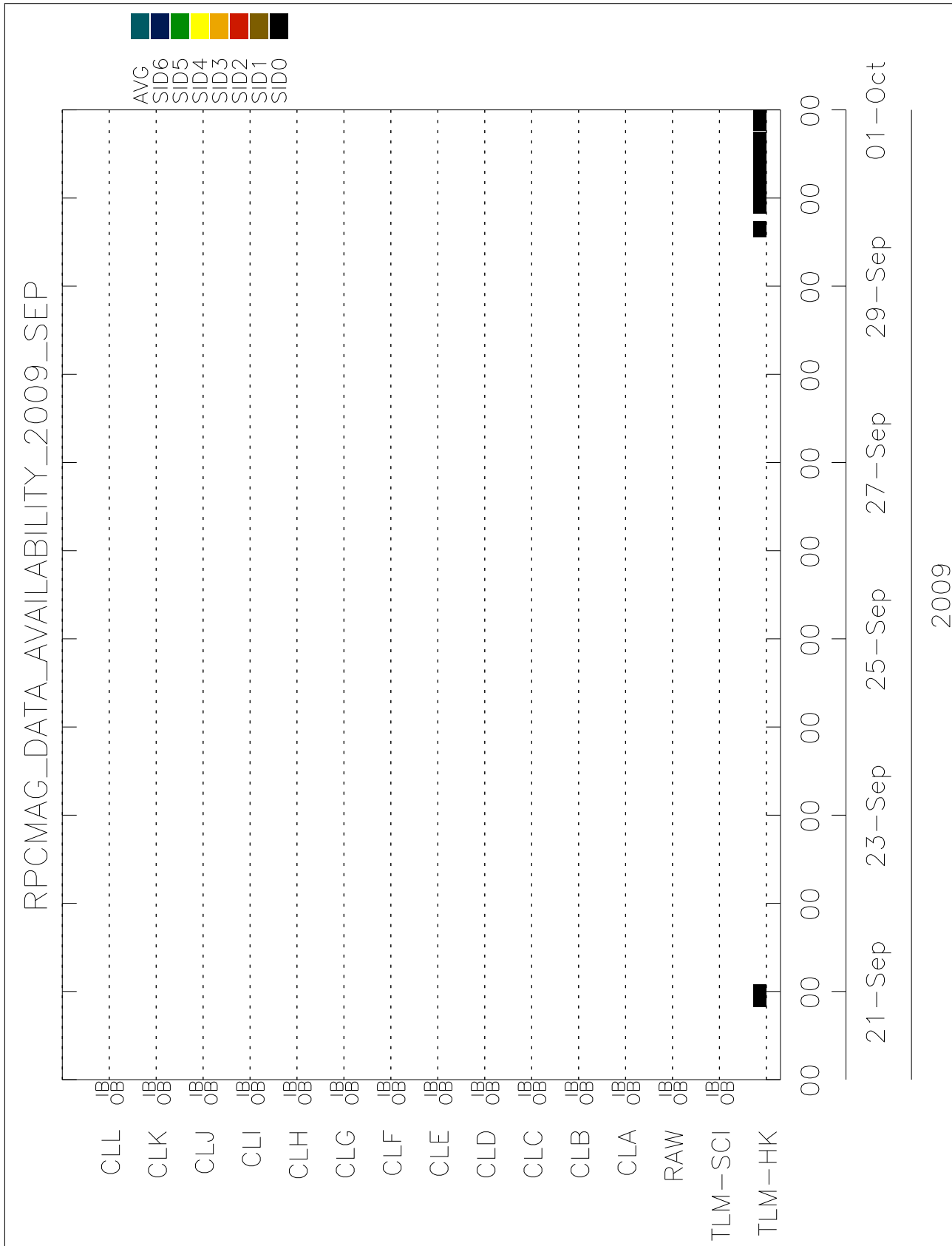


Figure 2: Overview September 2009

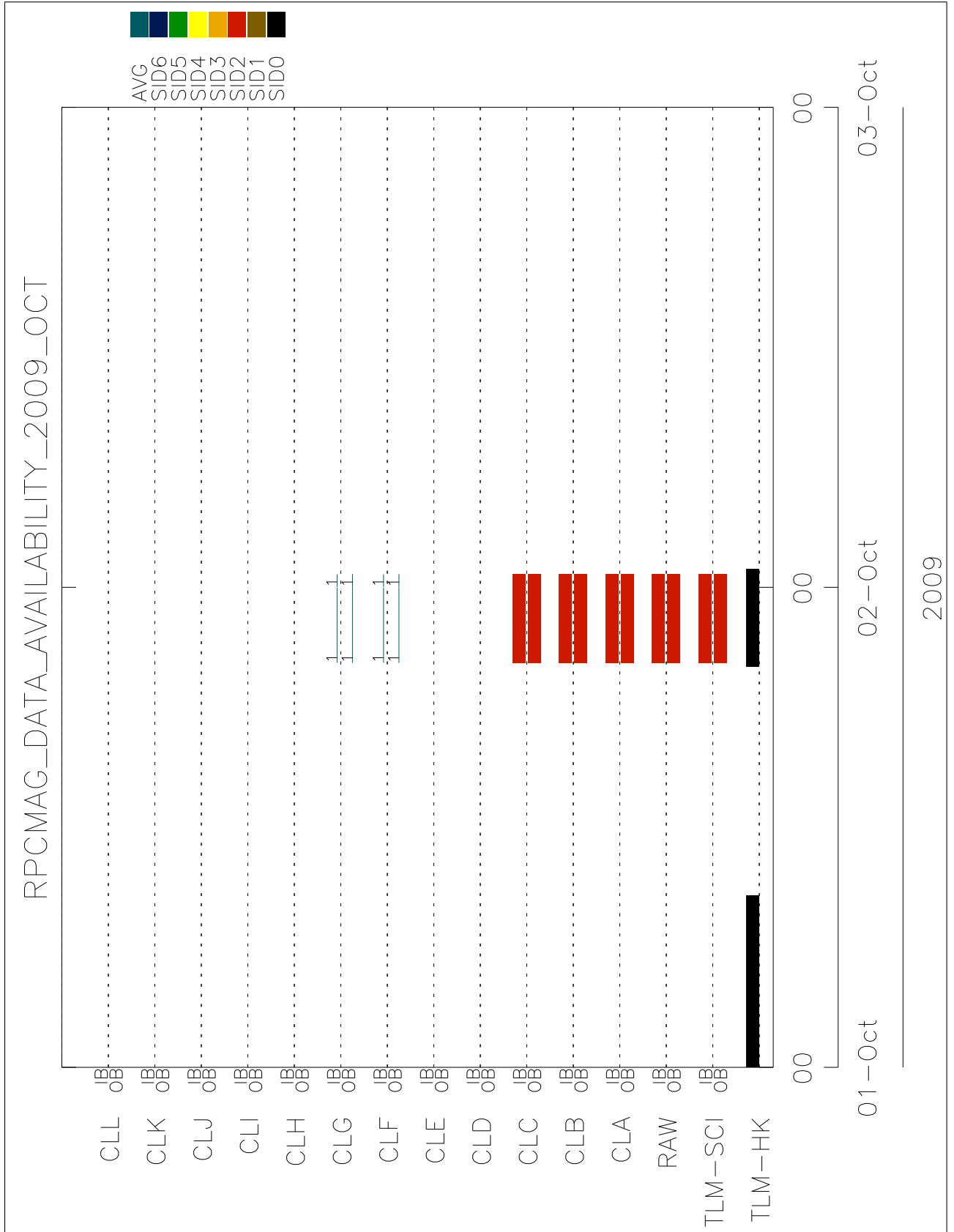
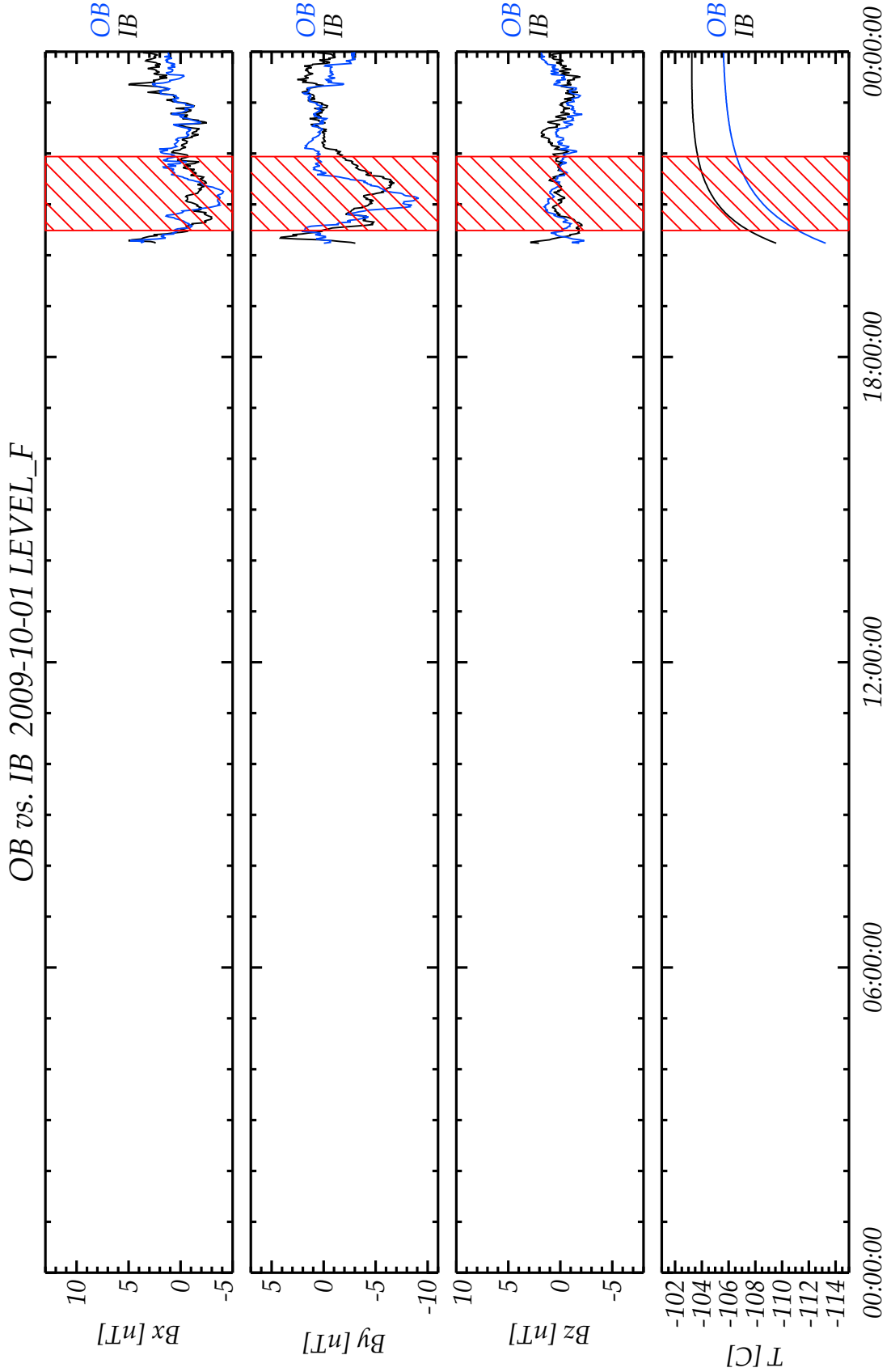
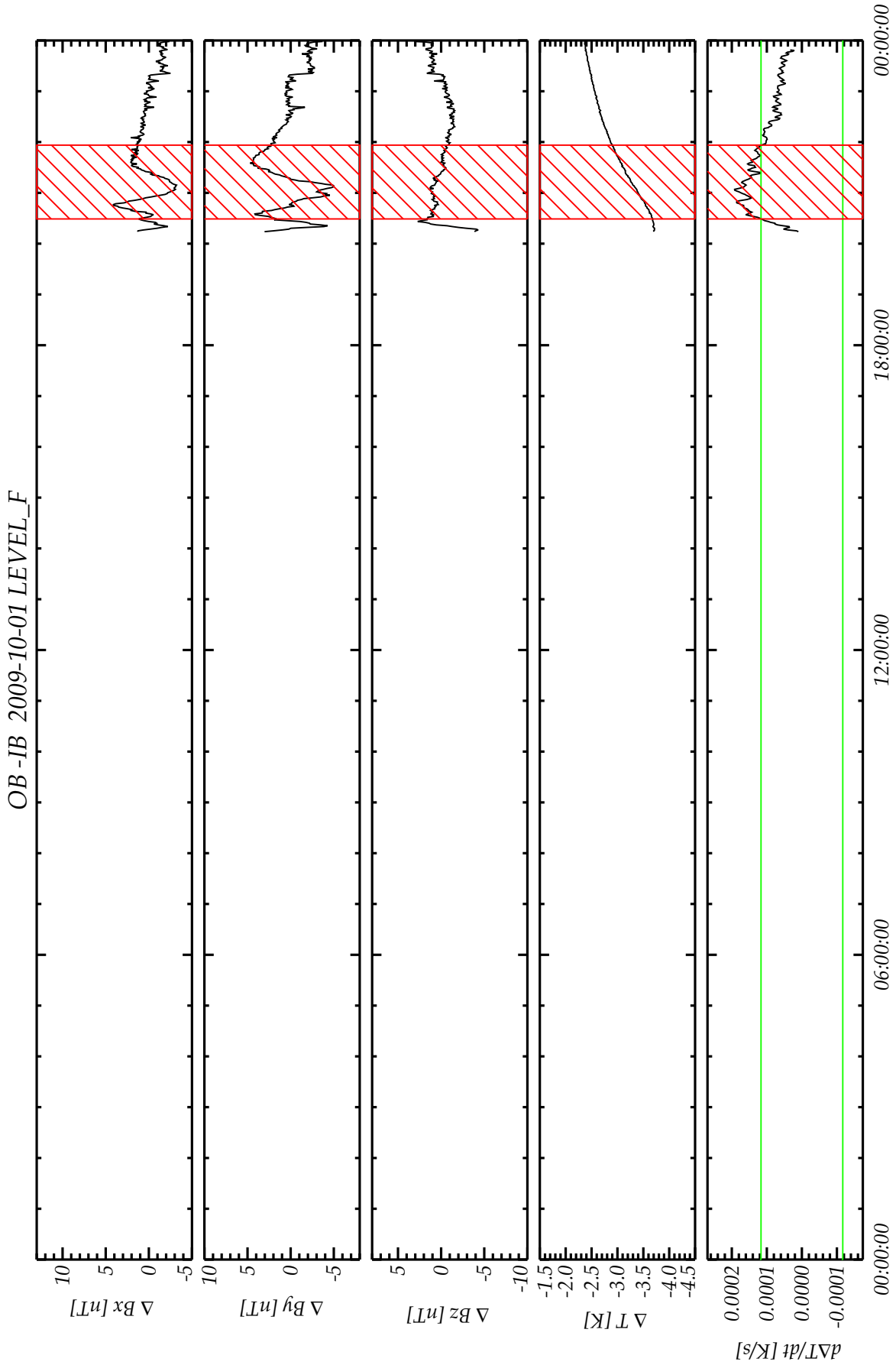


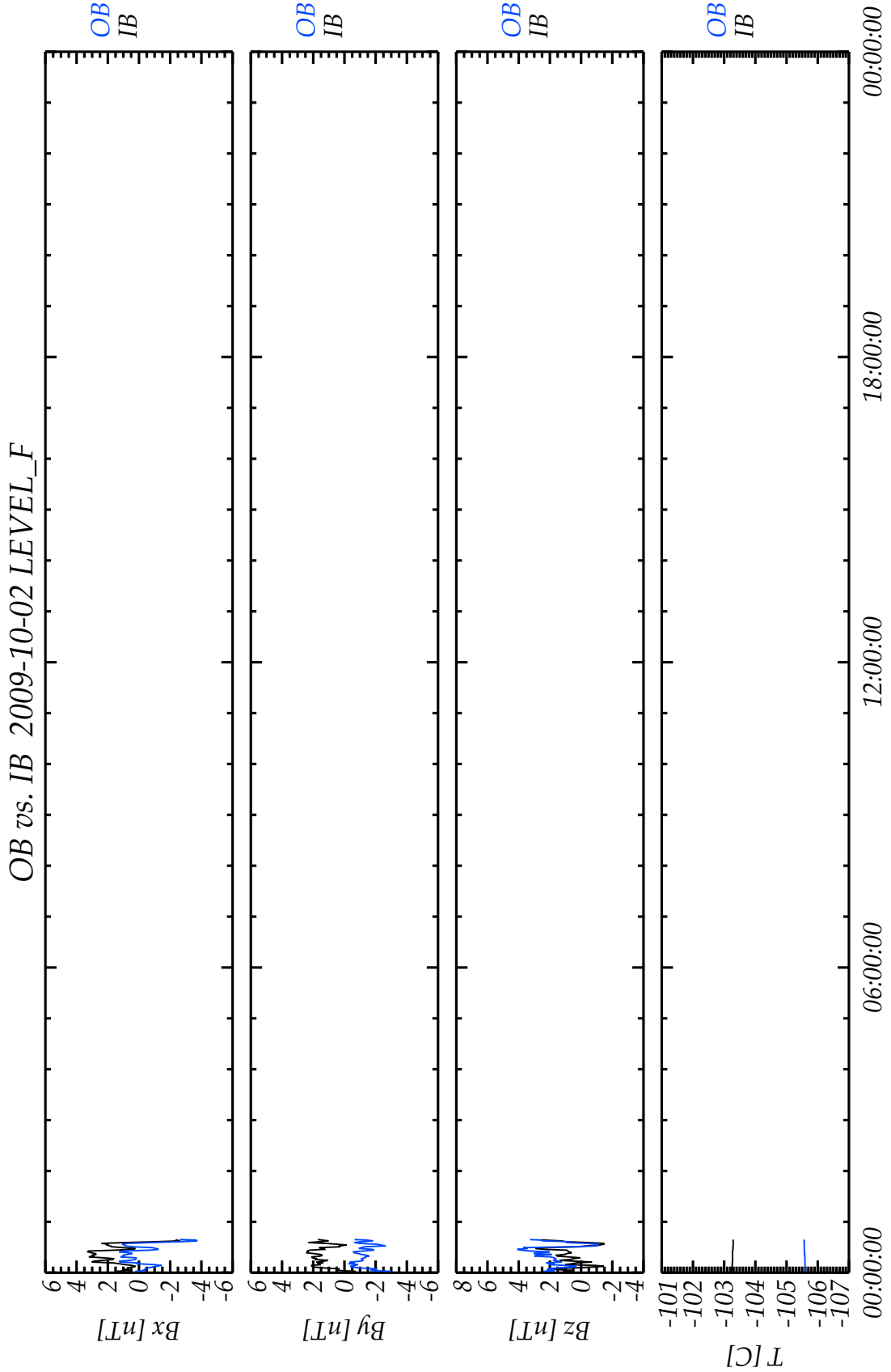
Figure 3: Overview October 2009

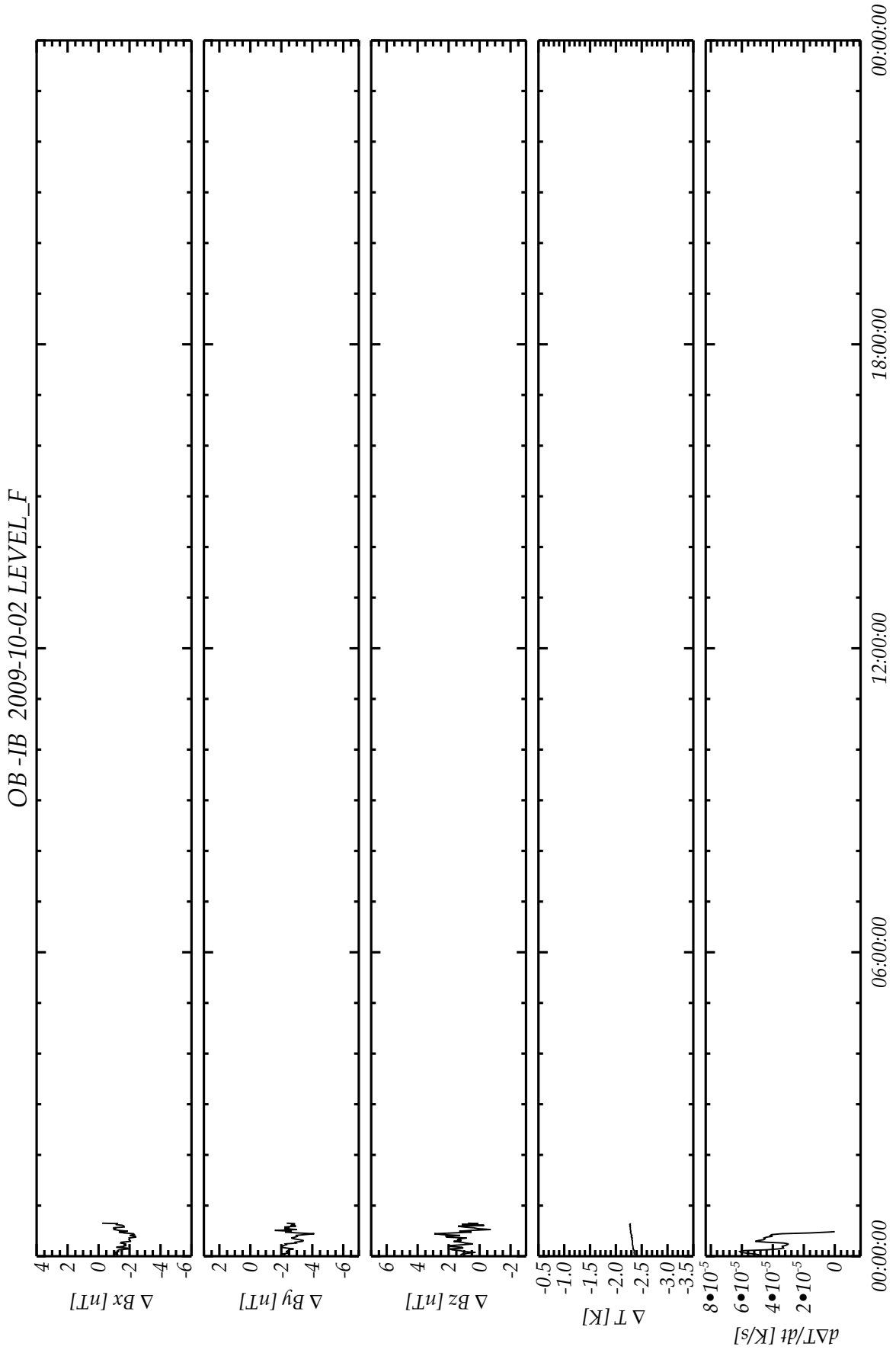
<h1 style="margin: 0;">R O S E T T A</h1>		Document: RO-IGEP-TR-0032 Issue: 1 Revision: 0 Date: January 22, 2010 Page: 6
<h1 style="margin: 0;">IGEP</h1>	Institut für Geophysik u. extraterr. Physik Technische Universität Braunschweig	

DATE	LEVEL	AVERAGE [s]	SENSOR
2009-10-01	CLG	1	OB
2009-10-01	CLF	1	OB
2009-10-01	CLG	1	IB
2009-10-01	CLF	1	IB
2009-10-02	CLG	1	OB
2009-10-02	CLF	1	OB
2009-10-02	CLG	1	IB
2009-10-02	CLF	1	IB









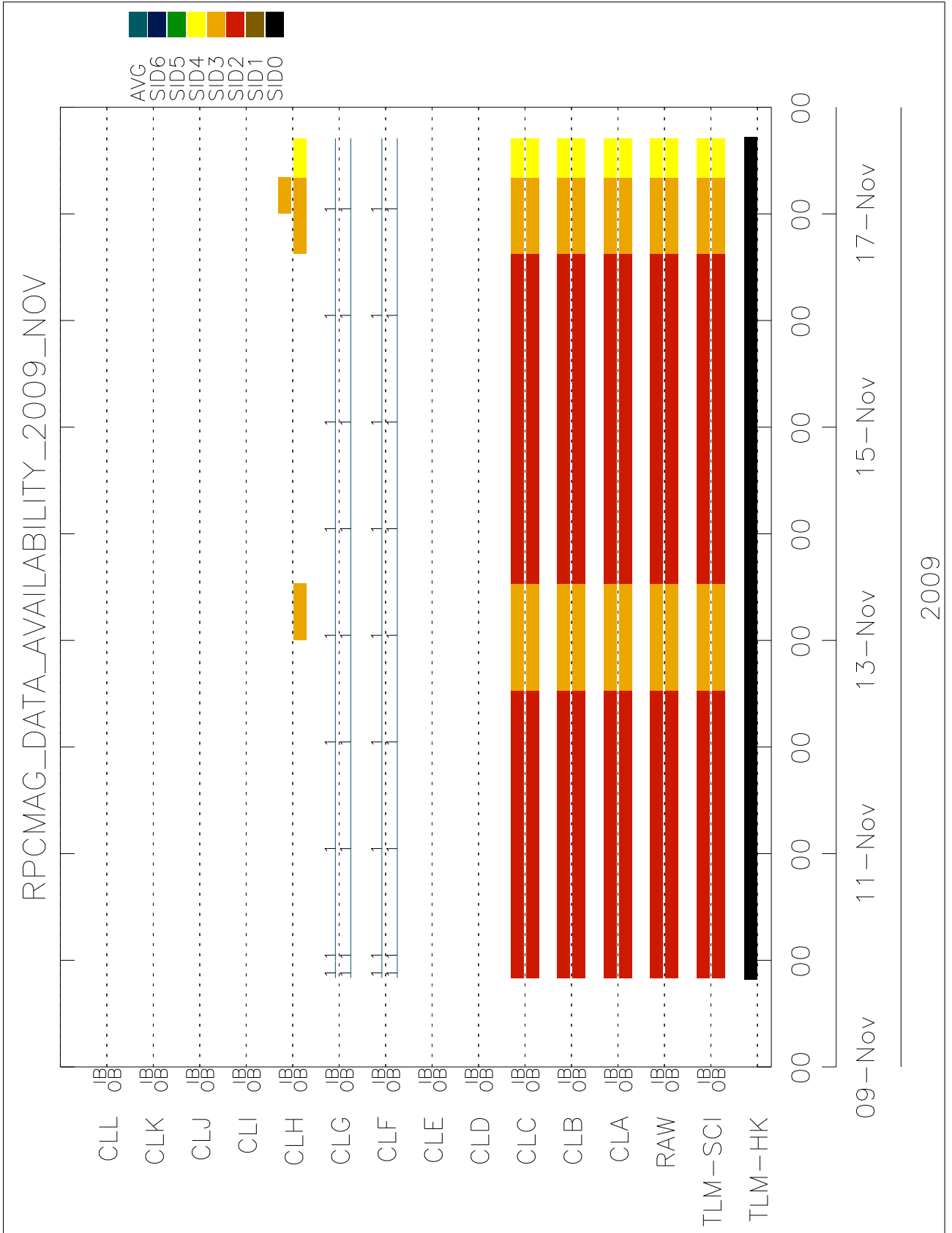


Figure 4: Overview November 2009

ROSETTA

IGEP Institut für Geophysik u. extraterr. Physik
Technische Universität Braunschweig

Document: RO-IGEP-TR-0032

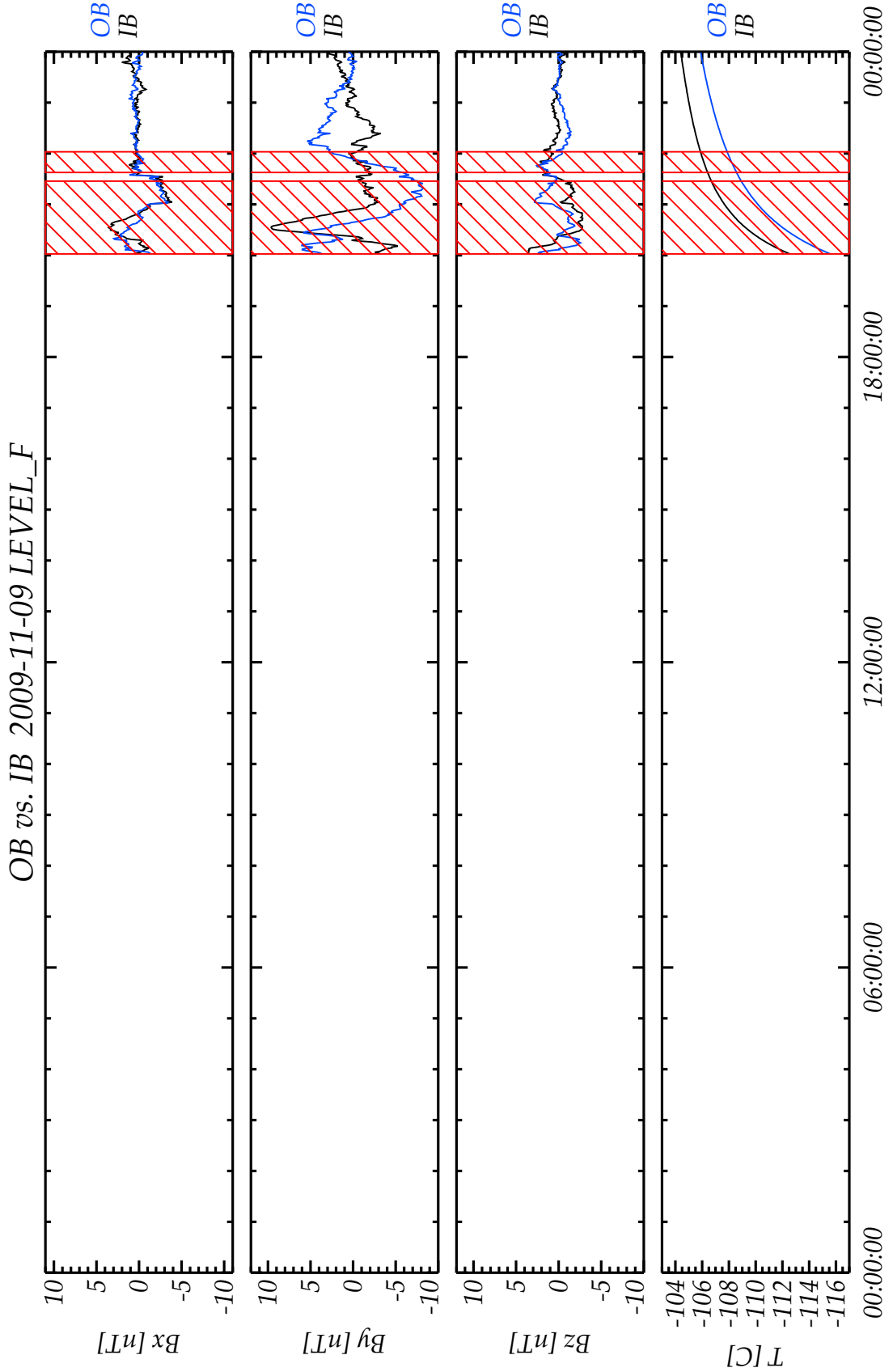
Issue: 1

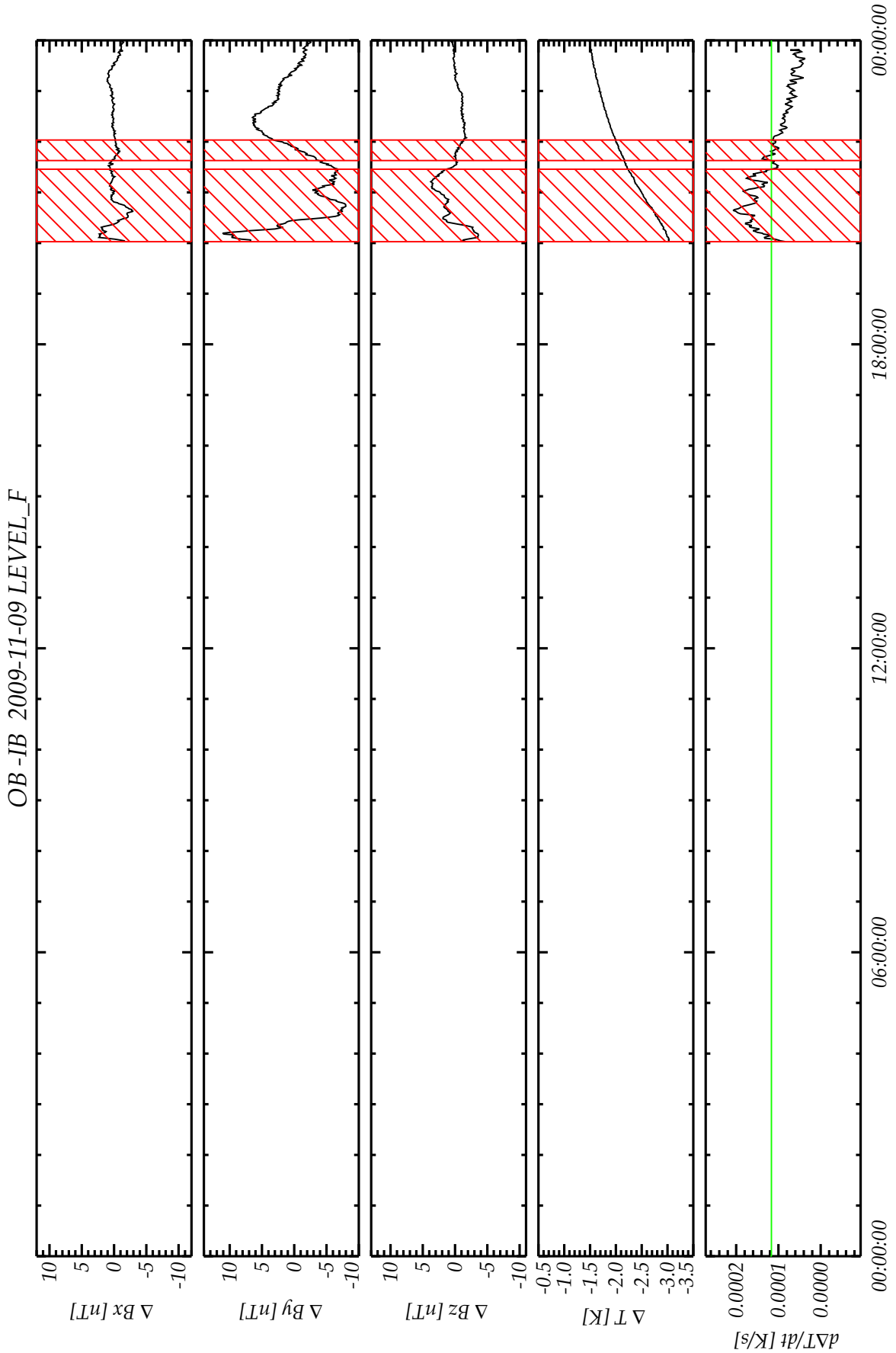
Revision: 0

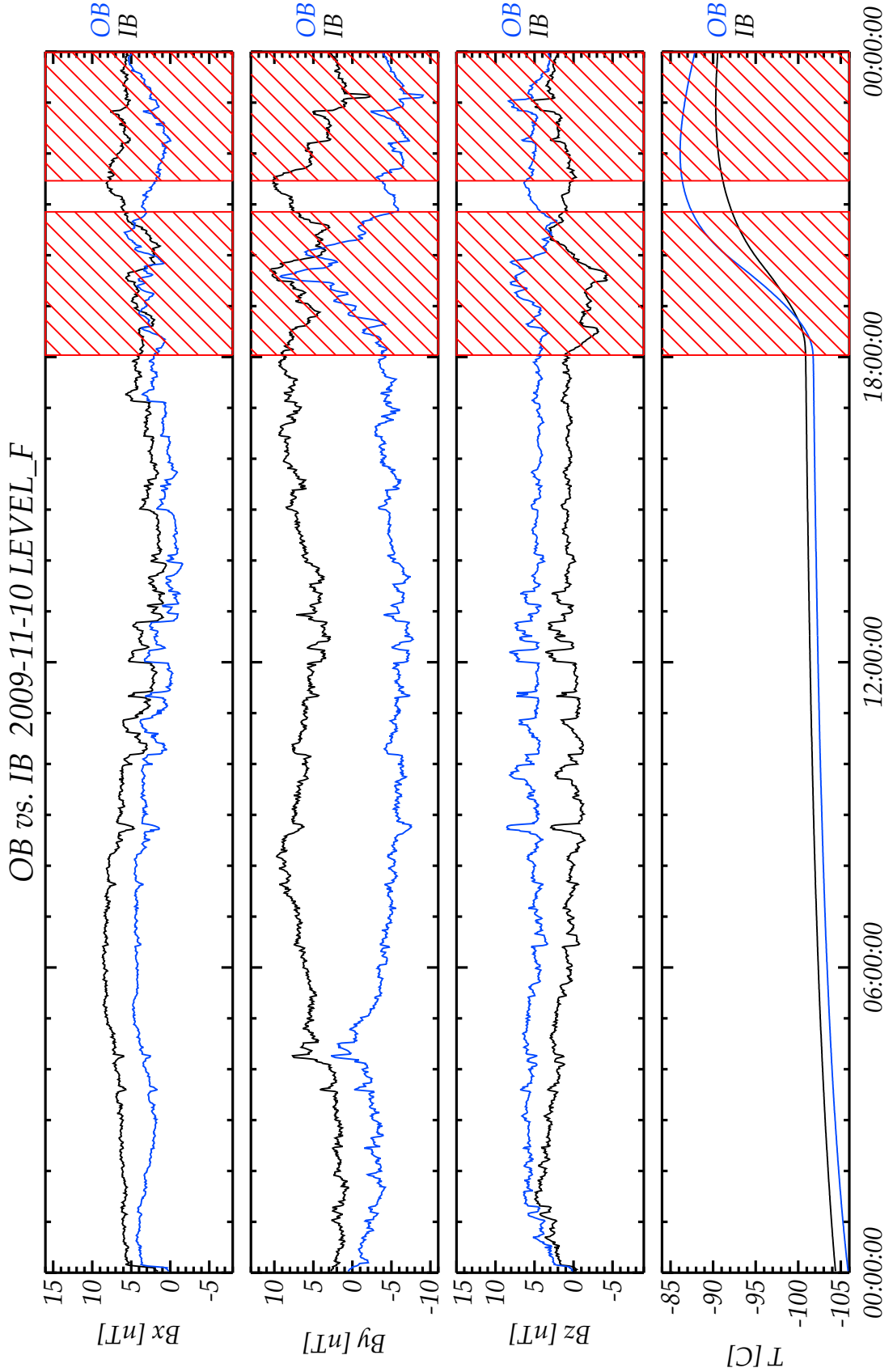
Date: January 22, 2010

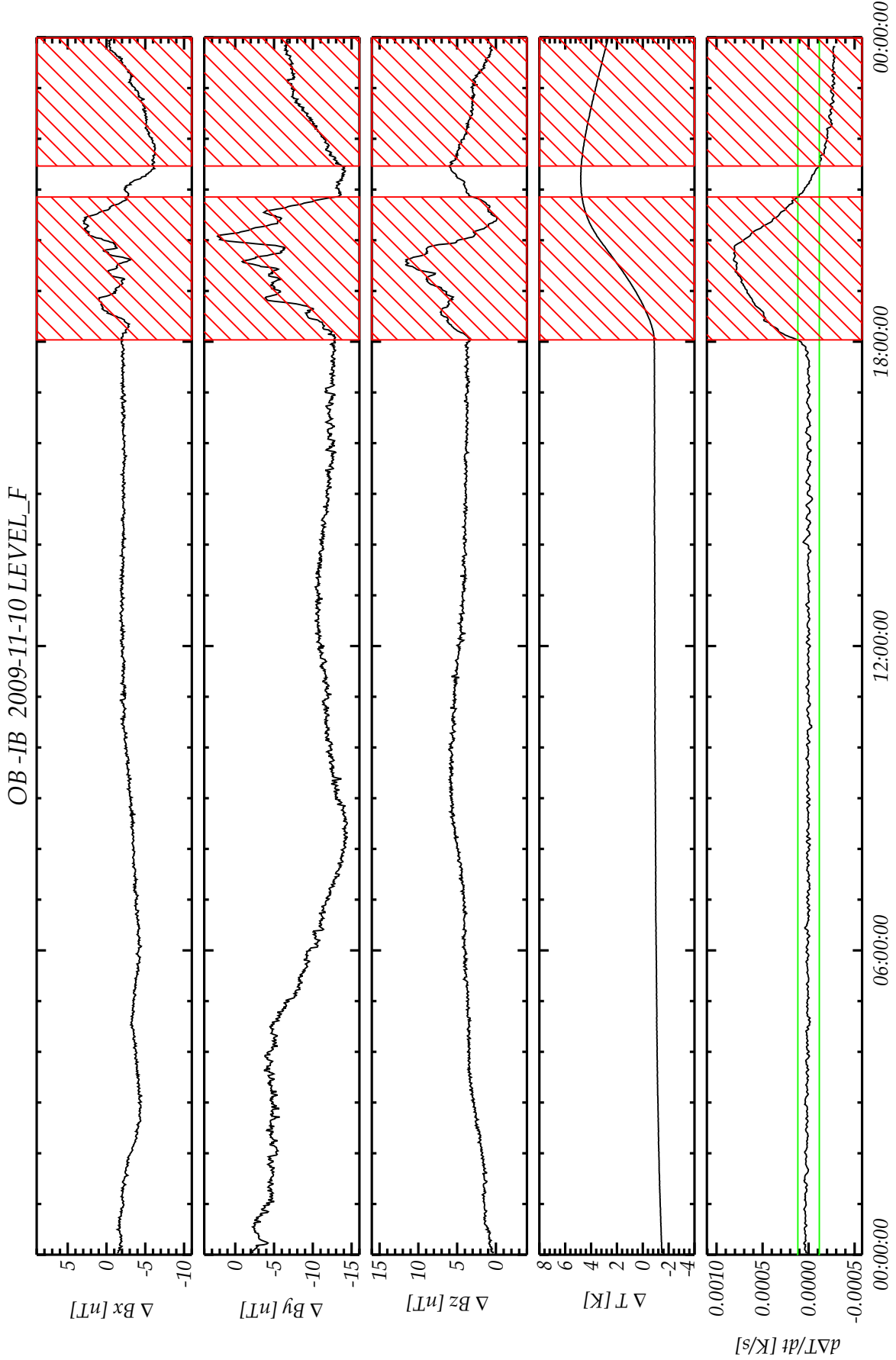
Page: 12

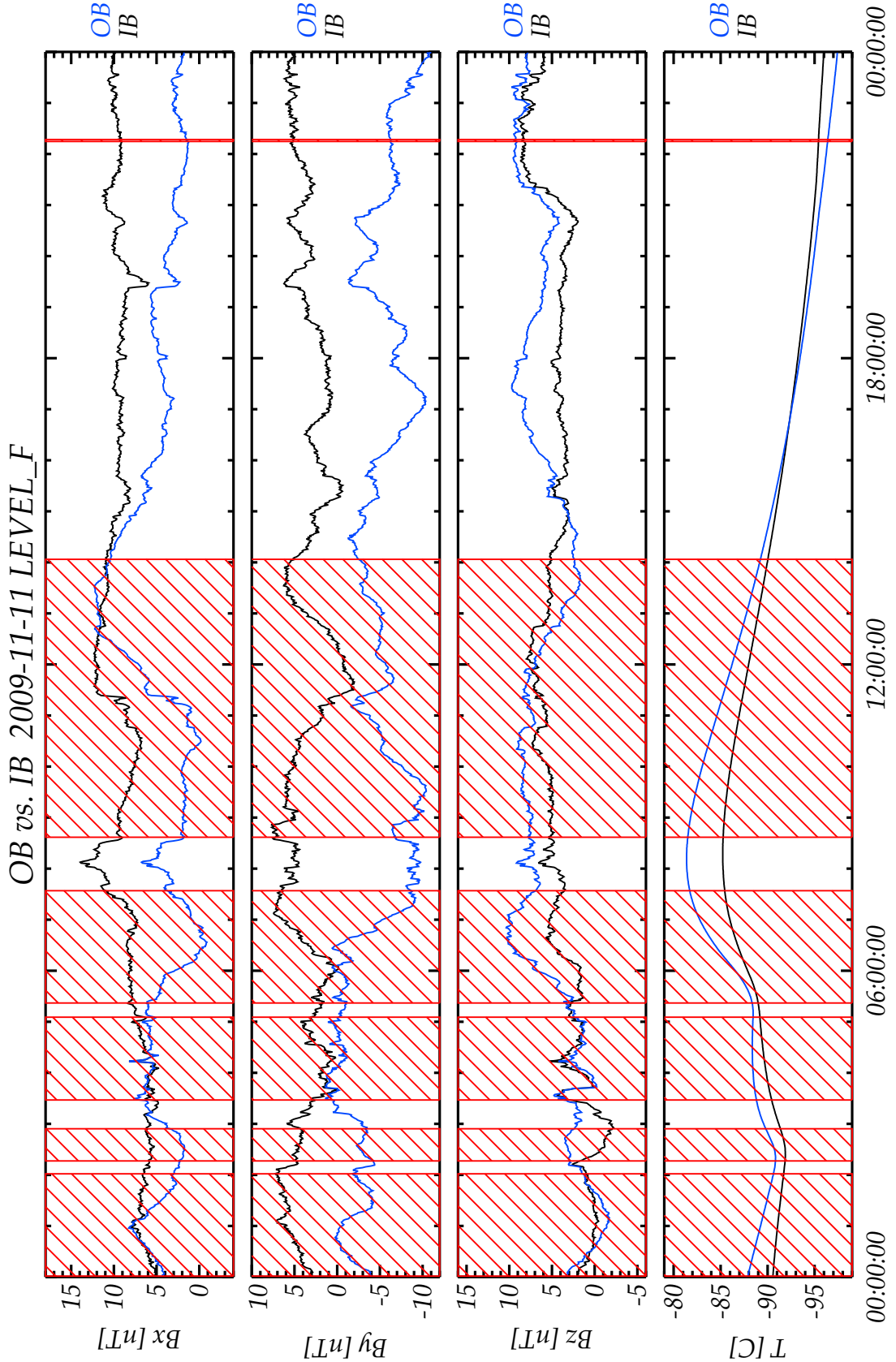
DATE	LEVEL	AVERAGE [s]	SENSOR
2009-11-09	CLF	1	OB
2009-11-09	CLG	1	OB
2009-11-09	CLG	1	IB
2009-11-09	CLF	1	IB
2009-11-10	CLF	1	OB
2009-11-10	CLG	1	OB
2009-11-10	CLF	1	IB
2009-11-10	CLG	1	IB
2009-11-11	CLG	1	OB
2009-11-11	CLF	1	OB
2009-11-11	CLF	1	IB
2009-11-11	CLG	1	IB
2009-11-12	CLF	1	OB
2009-11-12	CLG	1	OB
2009-11-12	CLF	1	IB
2009-11-12	CLG	1	IB
2009-11-13	CLF	1	OB
2009-11-13	CLG	1	OB
2009-11-13	CLG	1	IB
2009-11-13	CLF	1	IB
2009-11-14	CLF	1	OB
2009-11-14	CLG	1	OB
2009-11-14	CLF	1	IB
2009-11-14	CLG	1	IB
2009-11-15	CLG	1	OB
2009-11-15	CLF	1	OB
2009-11-15	CLG	1	IB
2009-11-15	CLF	1	IB
2009-11-16	CLG	1	OB
2009-11-16	CLF	1	OB
2009-11-16	CLF	1	IB
2009-11-16	CLG	1	IB
2009-11-17	CLF	1	OB
2009-11-17	CLG	1	OB
2009-11-17	CLG	1	IB
2009-11-17	CLF	1	IB

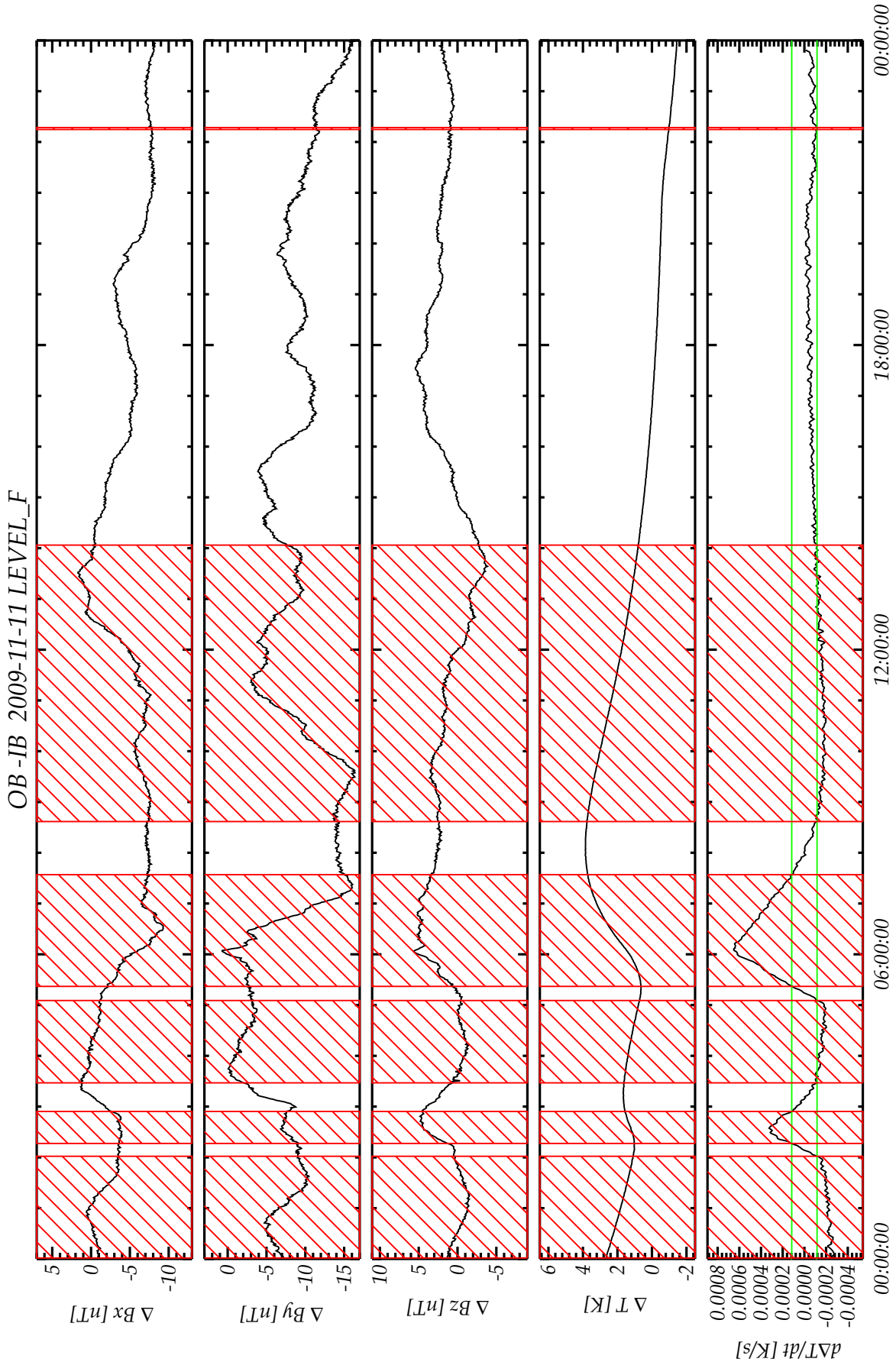


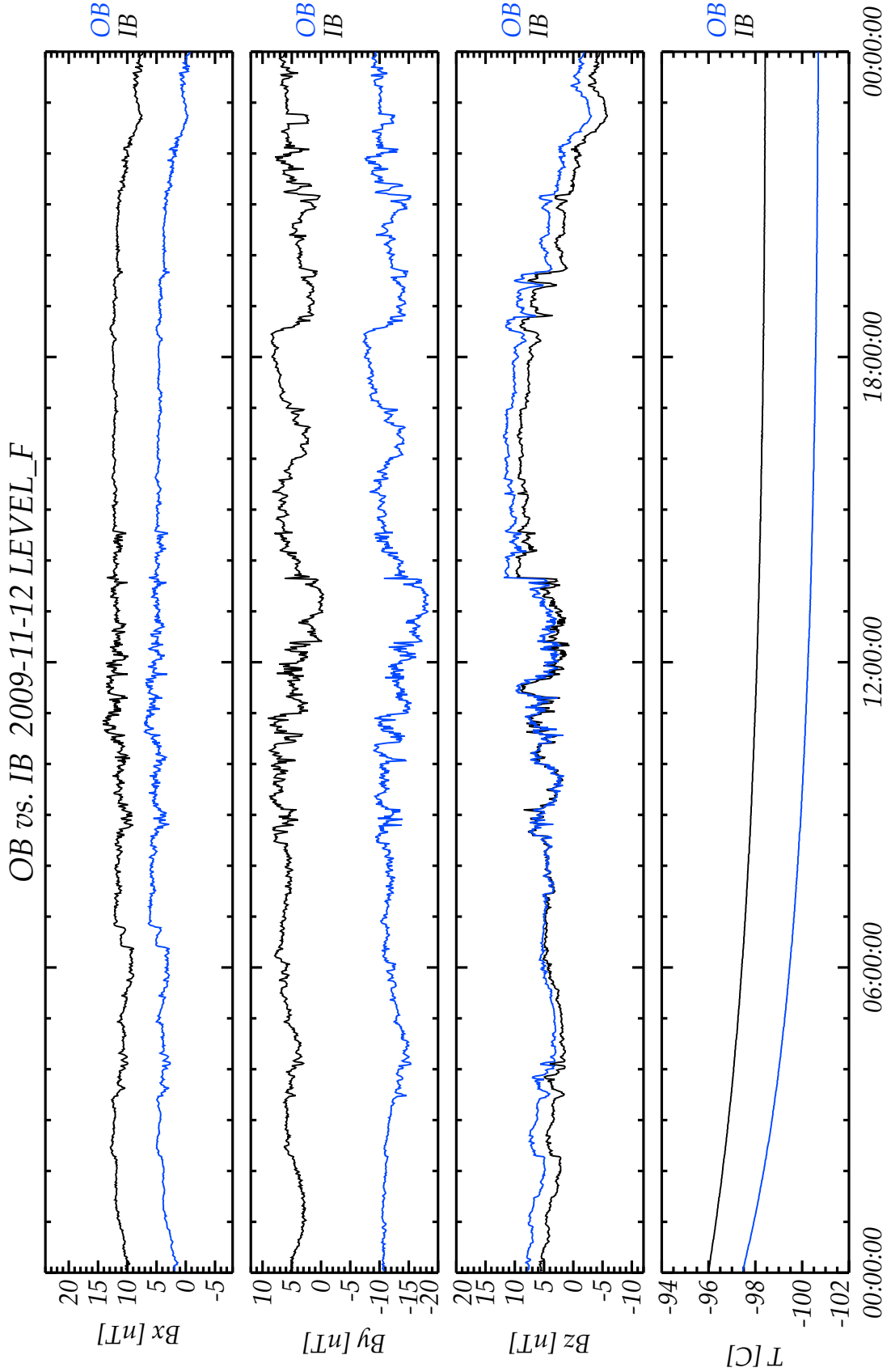












OB-IB 2009-11-12 LEVEL_F

