

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

RO-IGEP-TR-0021

Issue: 2 Revision: 0

January 22, 2010

OVERVIEW OF
AVAILABLE RPCMAG DATA
AND
DATA QUALITY ASSESSMENT

Mission Phases: MARS
Time Period: August 2006 - May 2007

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Germany

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1 Introduction

This document contains information about all available data and its quality for the time period between August, 2006 until May 2007. This covers this Mission Phase MARS.

For every year, month 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

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

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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2 2006

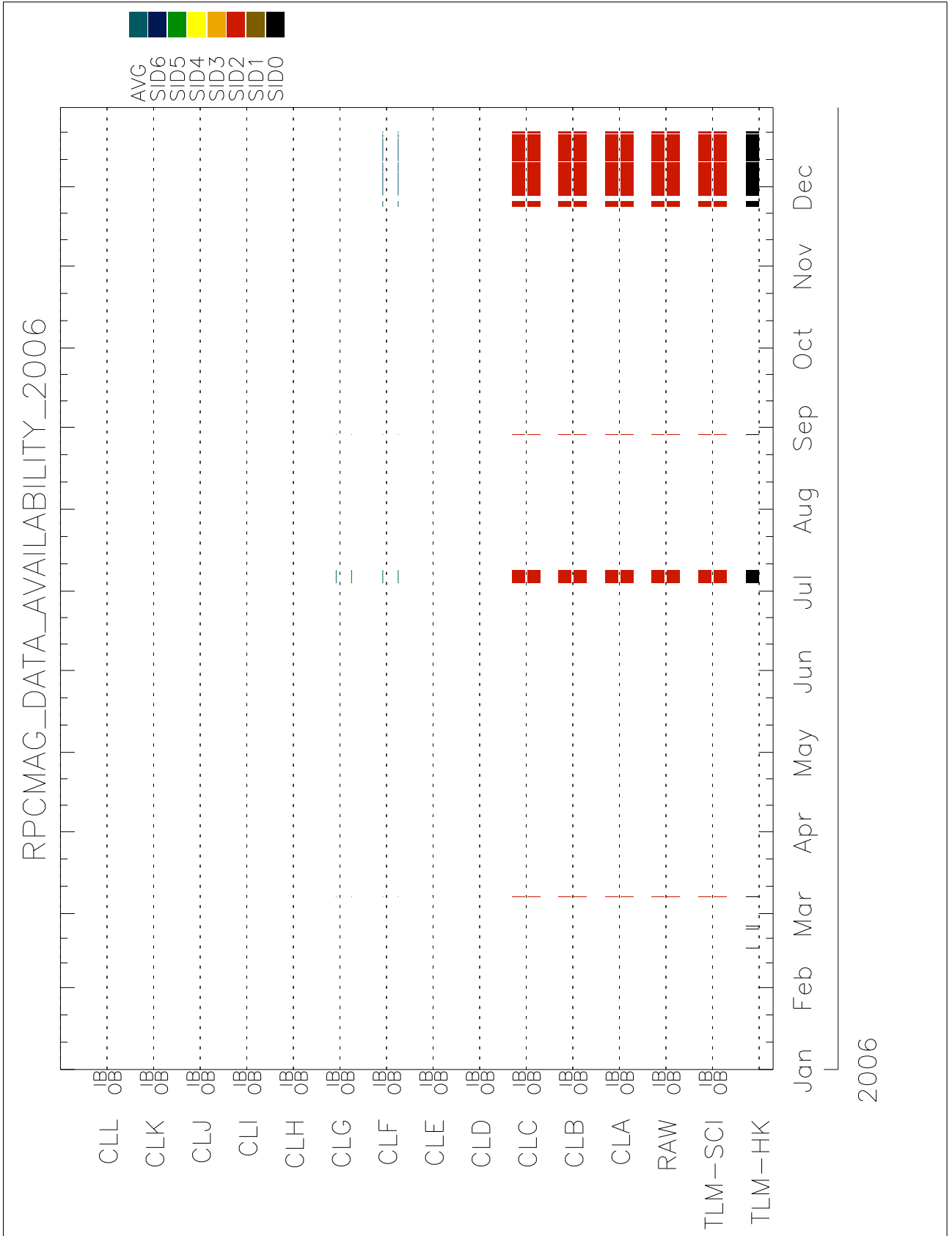


Figure 1: Overview 2006

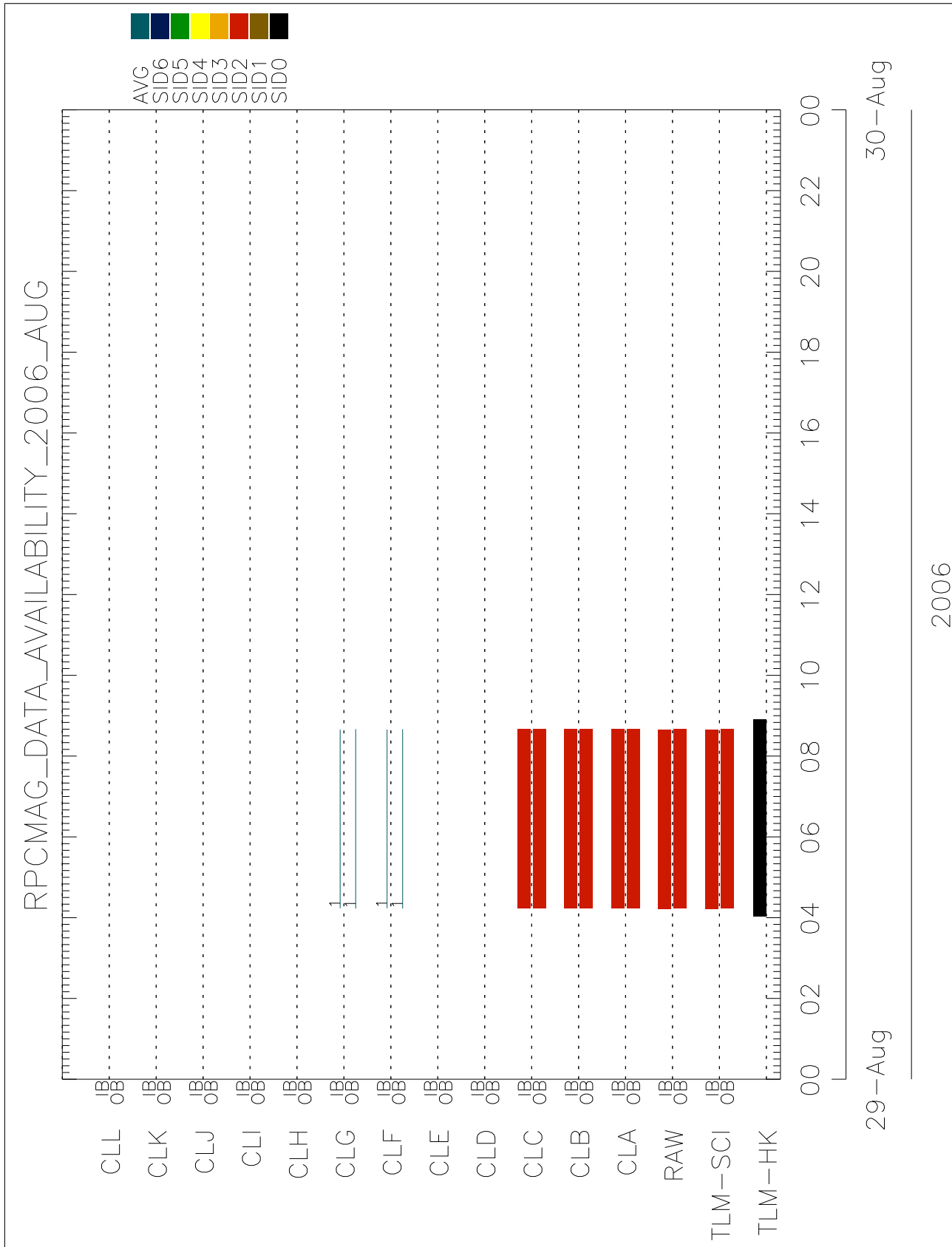


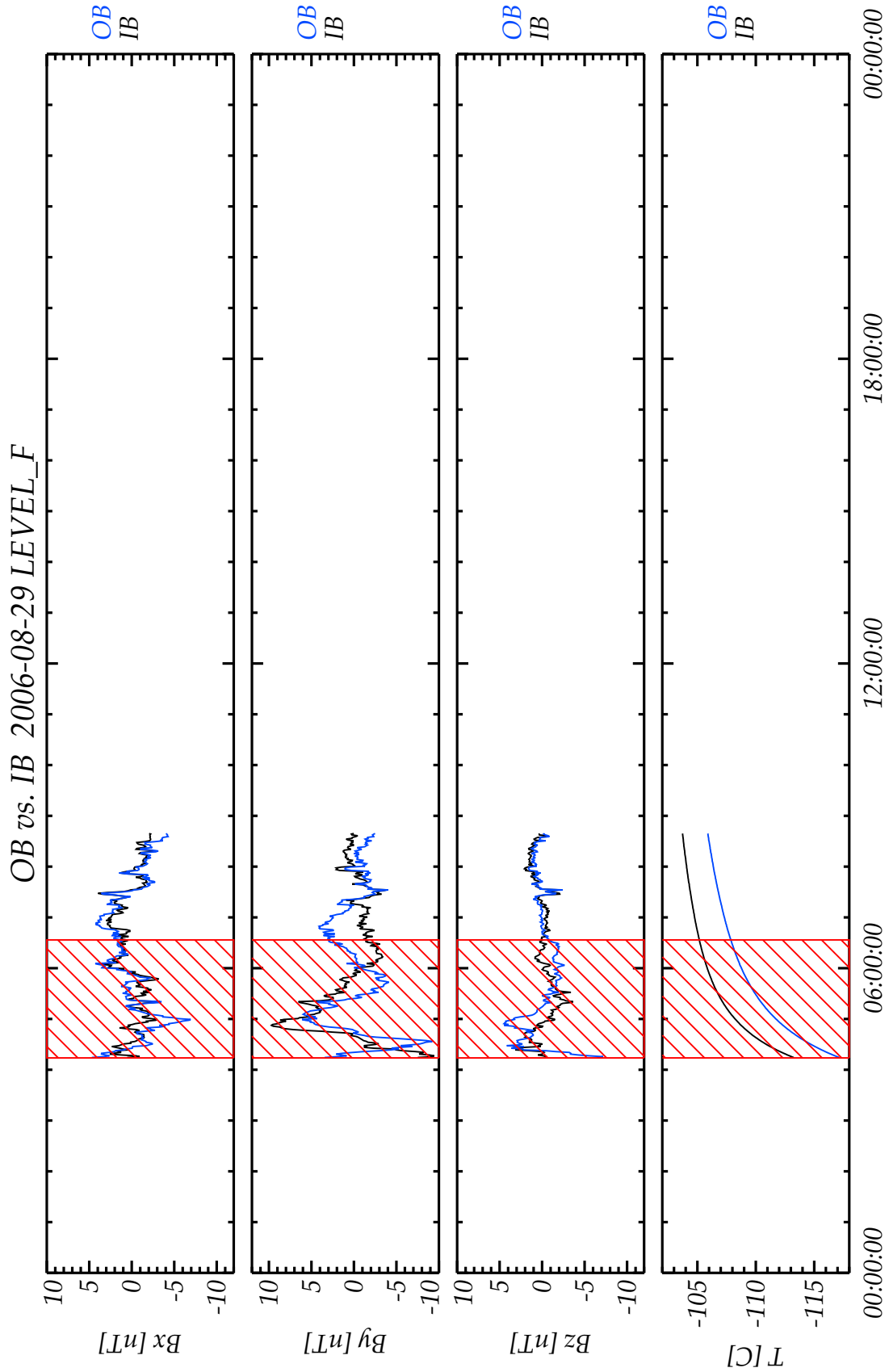
Figure 2: Overview August 2006

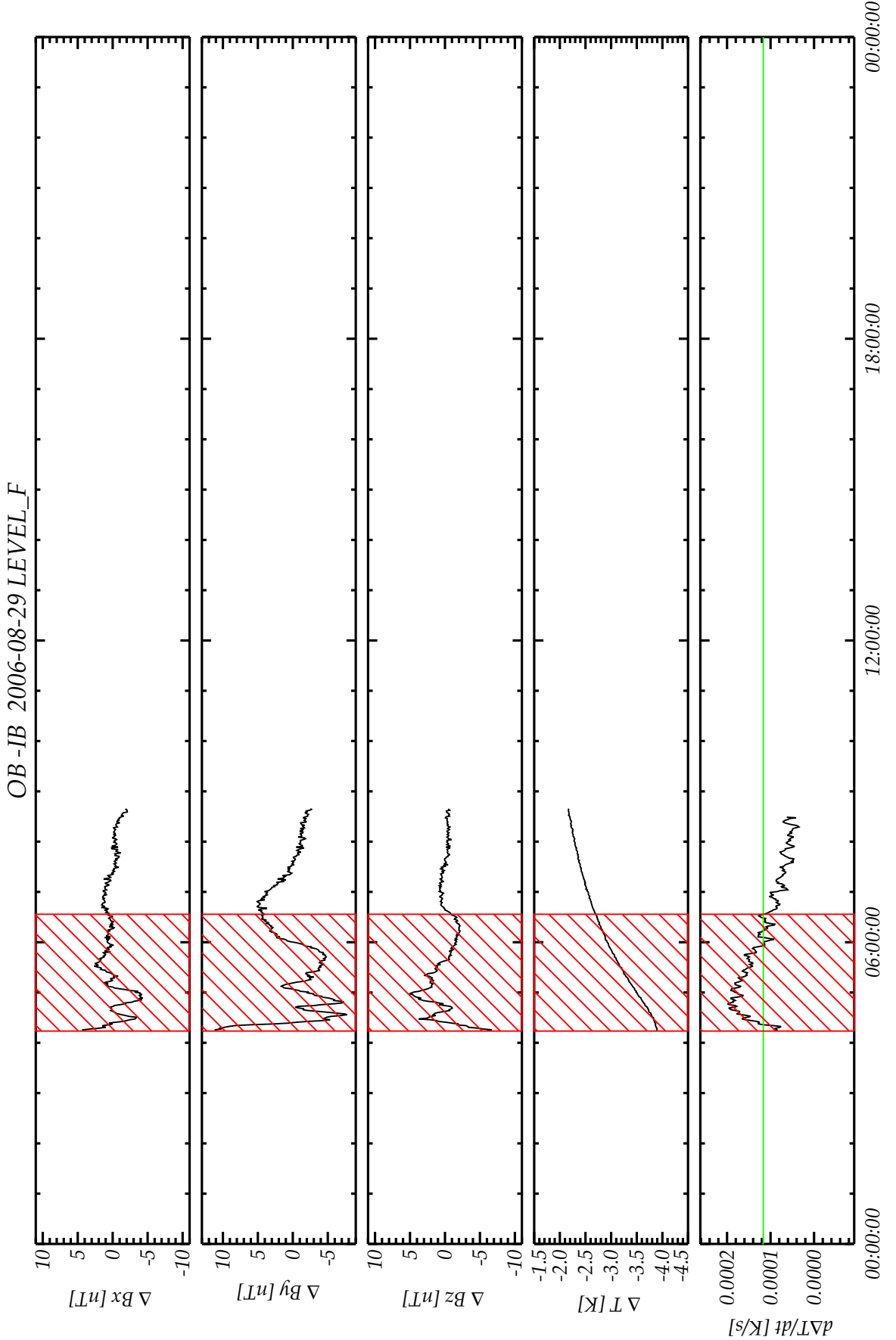
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DATE	LEVEL	AVERAGE [s]	SENSOR
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2006-08-29	CLG	1	OB
2006-08-29	CLF	1	IB
2006-08-29	CLG	1	IB





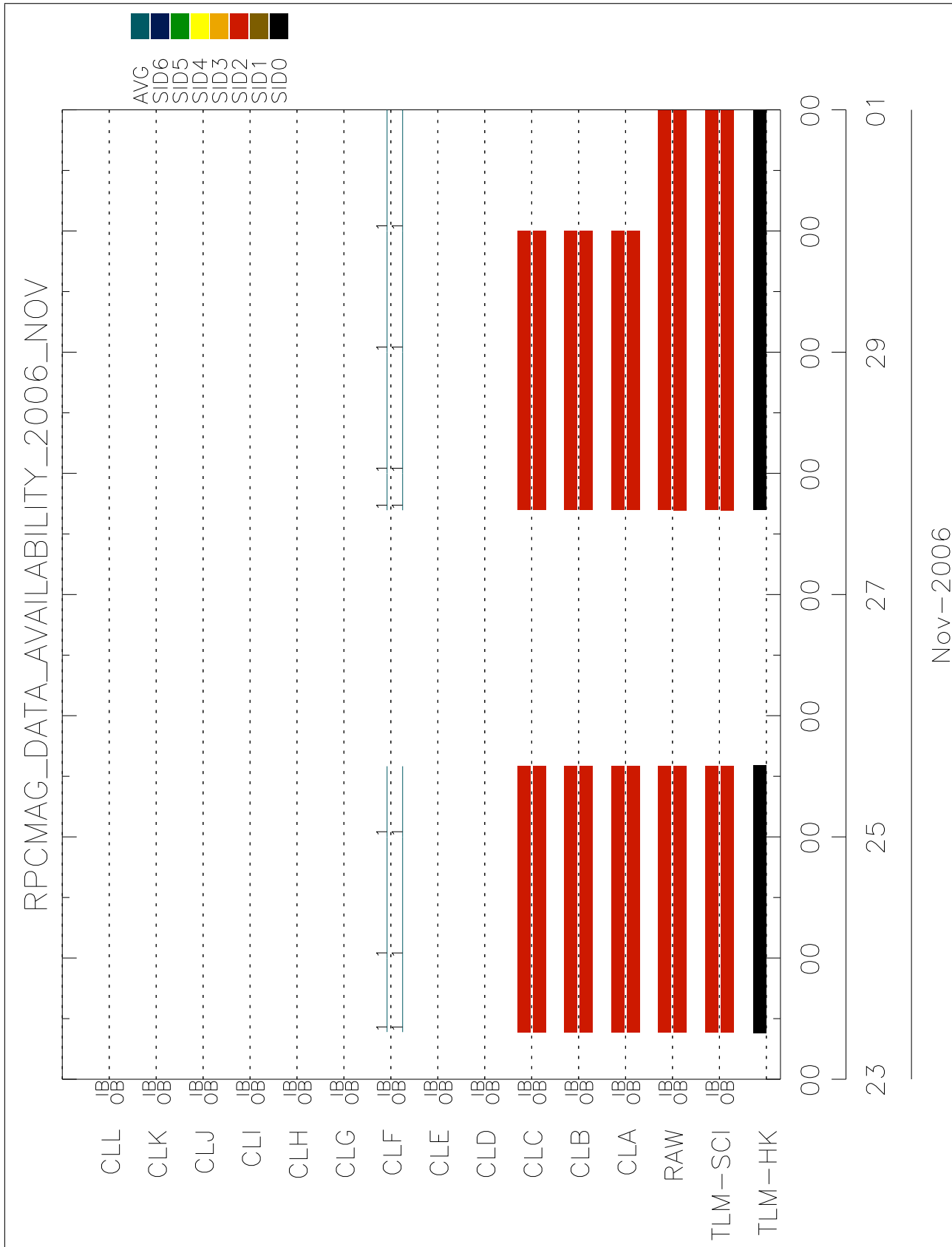


Figure 3: Overview November 2006

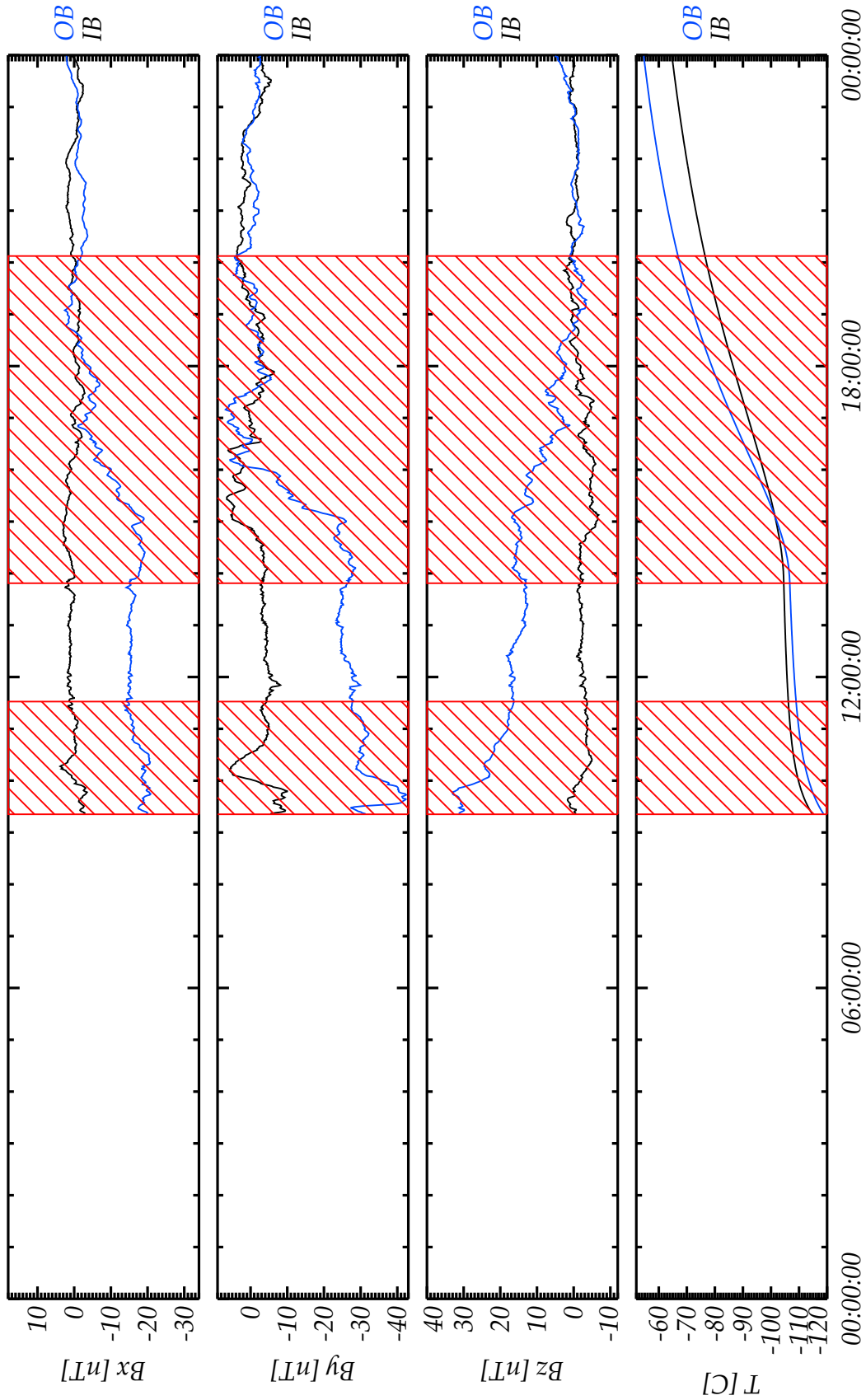
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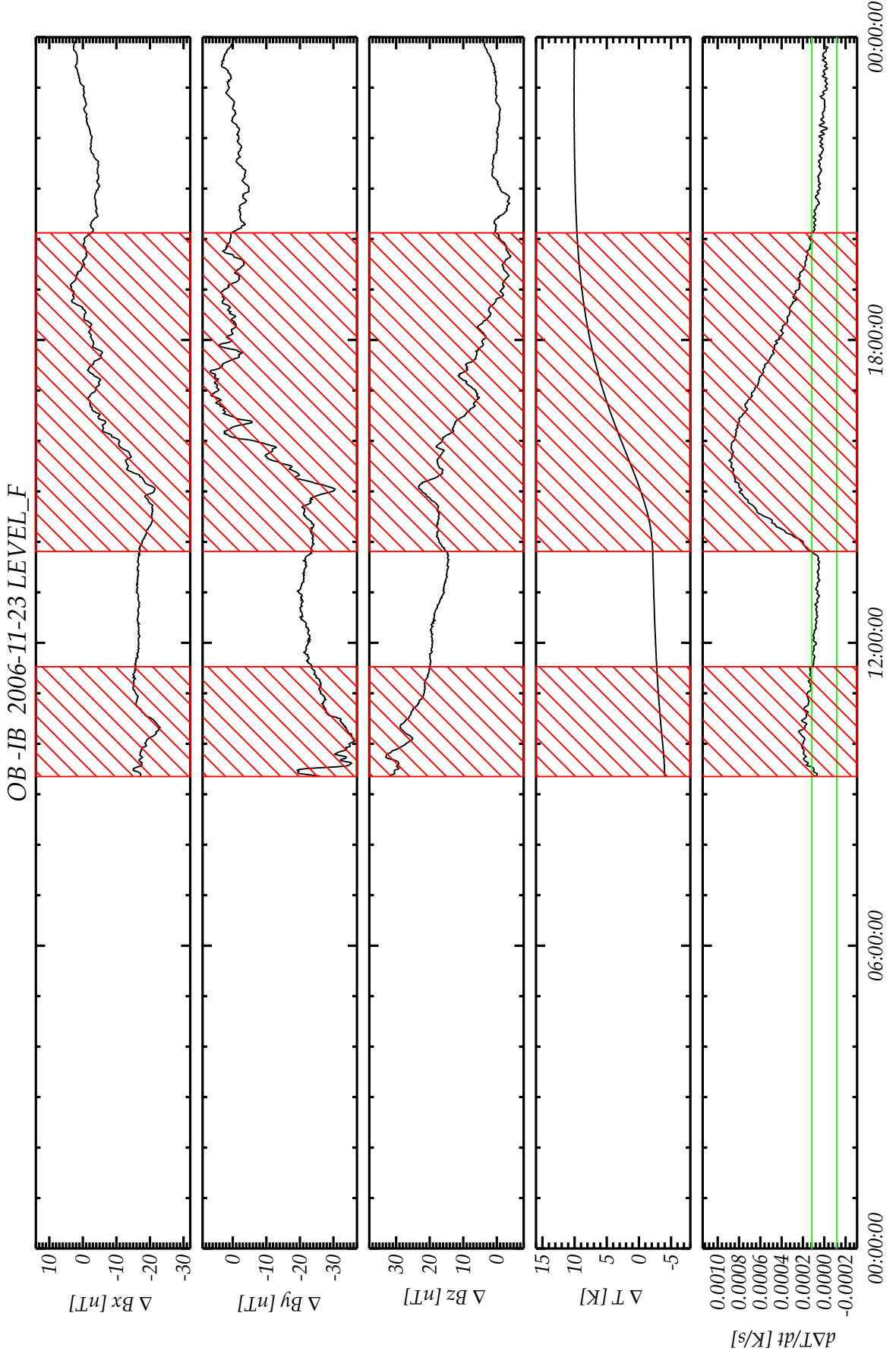
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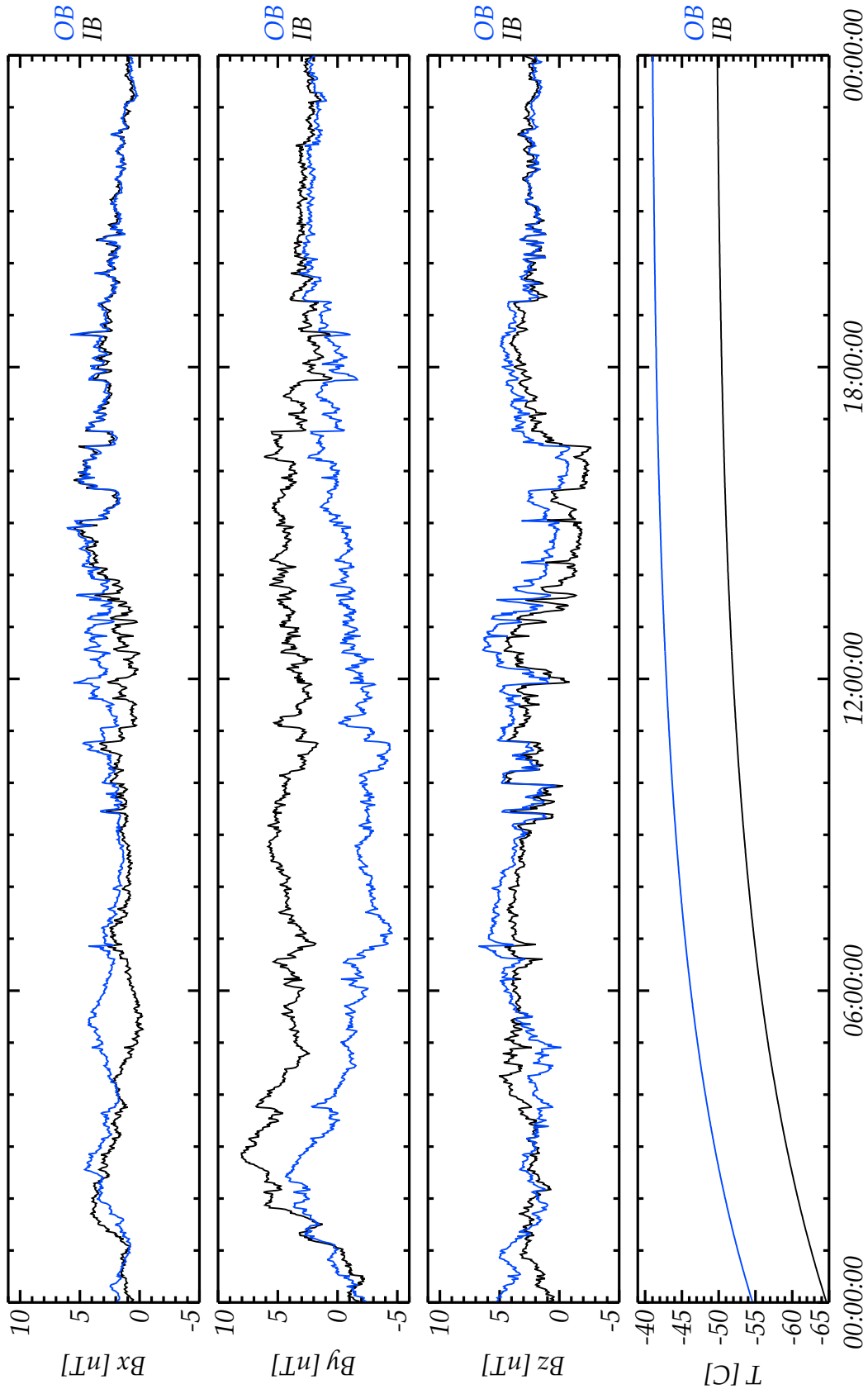
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2006-11-24	CLF	1	OB
2006-11-24	CLF	1	IB
2006-11-25	CLF	1	OB
2006-11-25	CLF	1	IB
2006-11-27	CLF	1	OB
2006-11-27	CLF	1	IB
2006-11-28	CLF	1	OB
2006-11-28	CLF	1	IB
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2006-11-30	CLF	1	IB

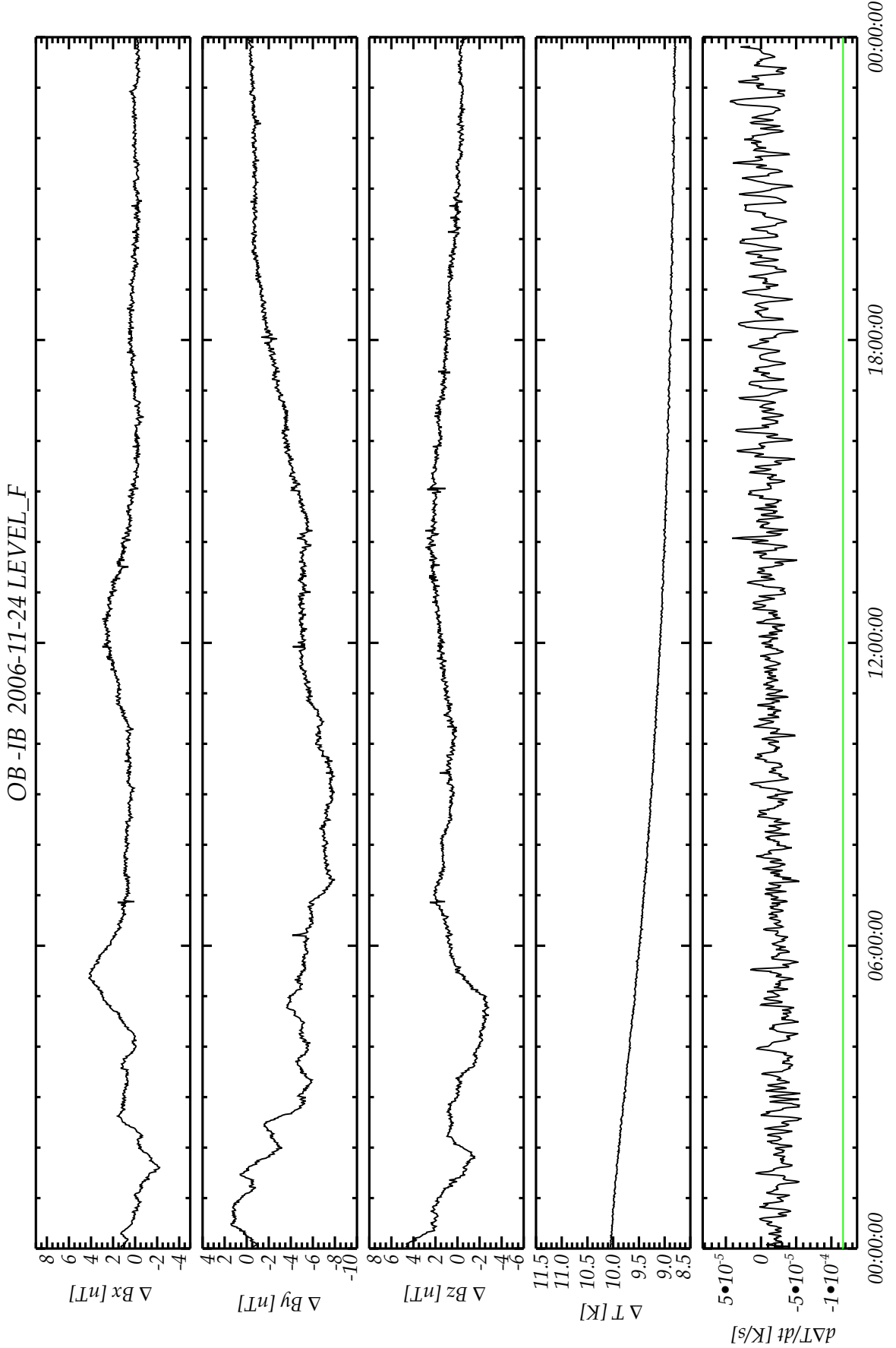
OB vs. IB 2006-11-23 LEVEL_F



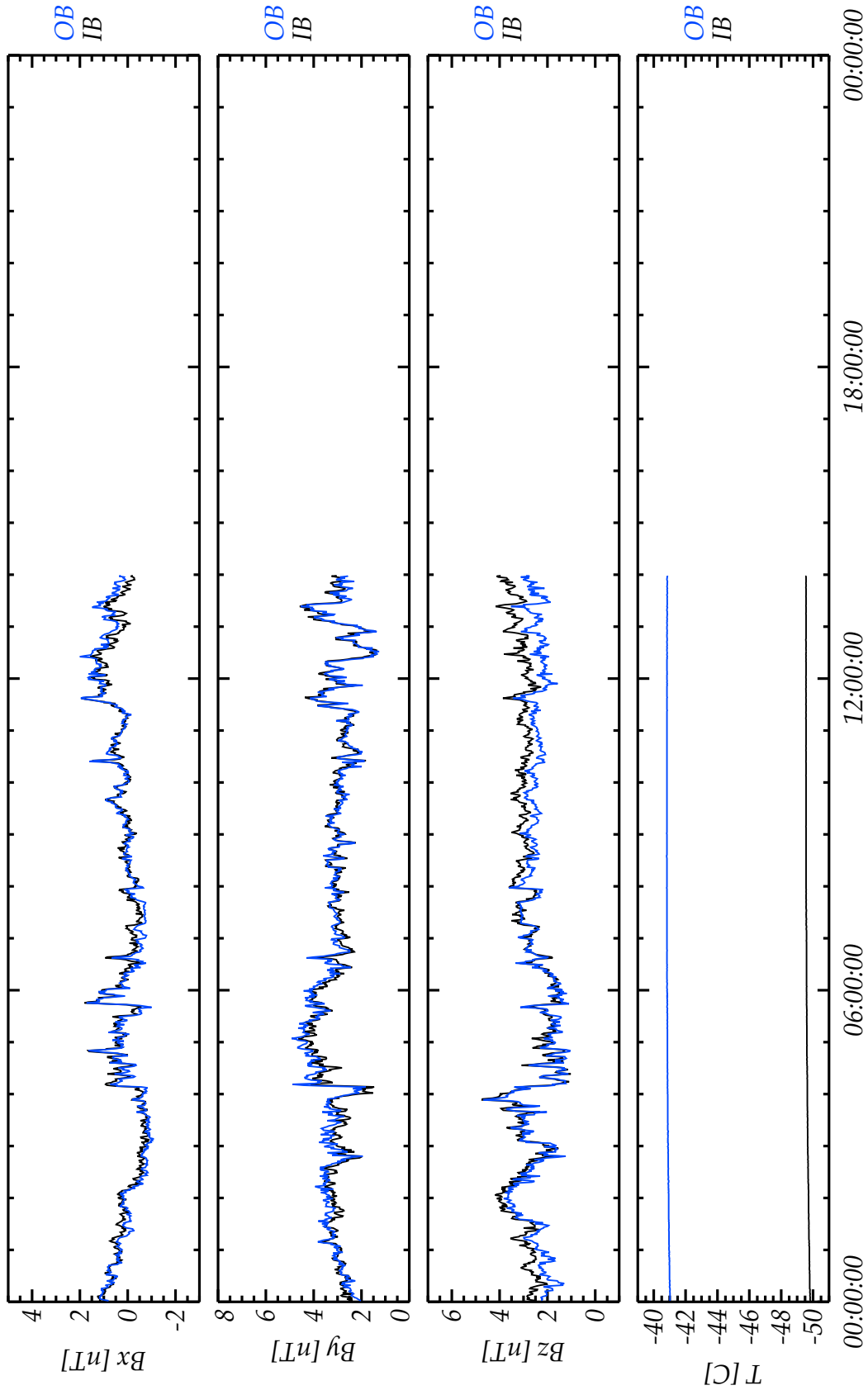


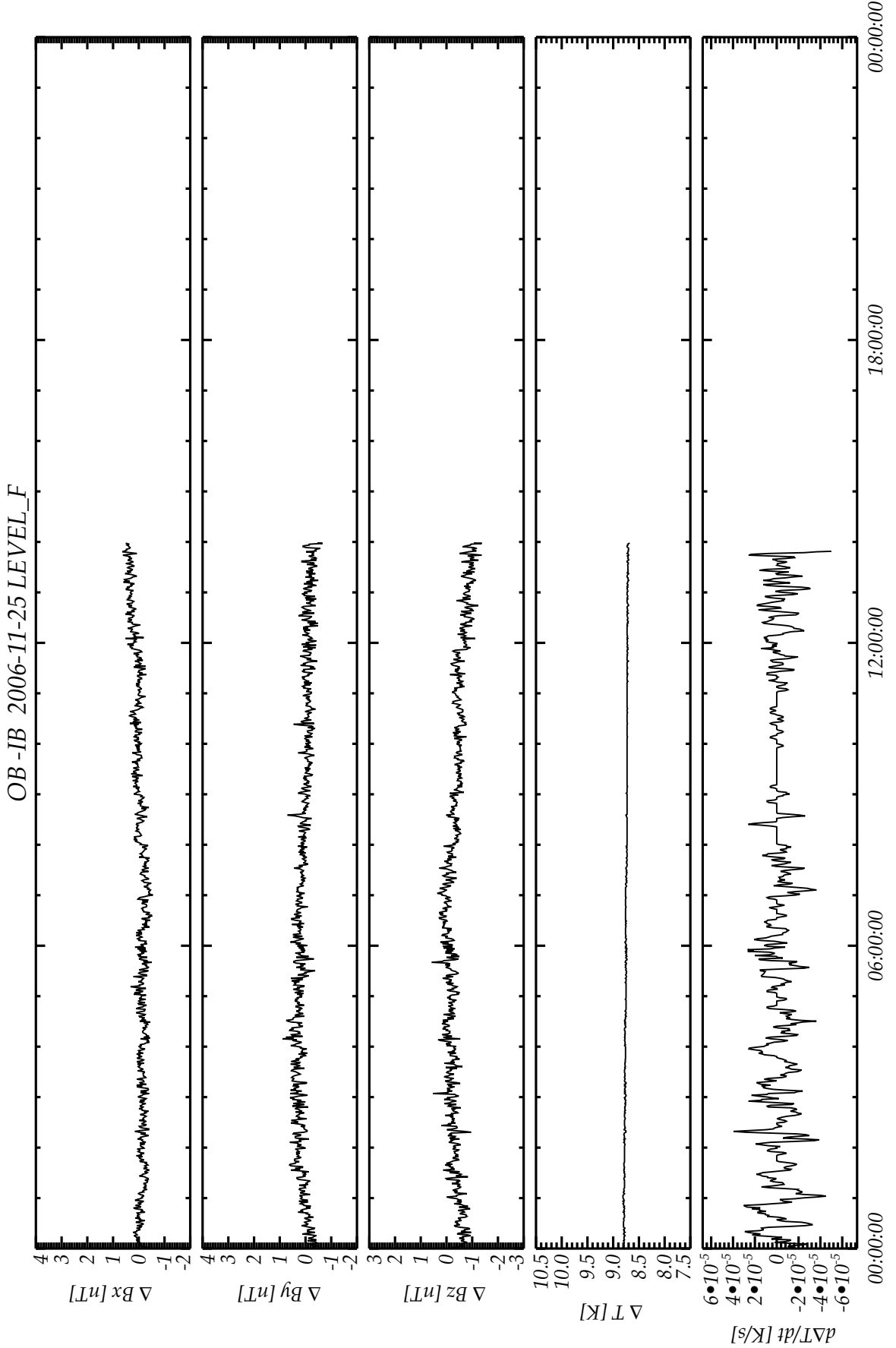
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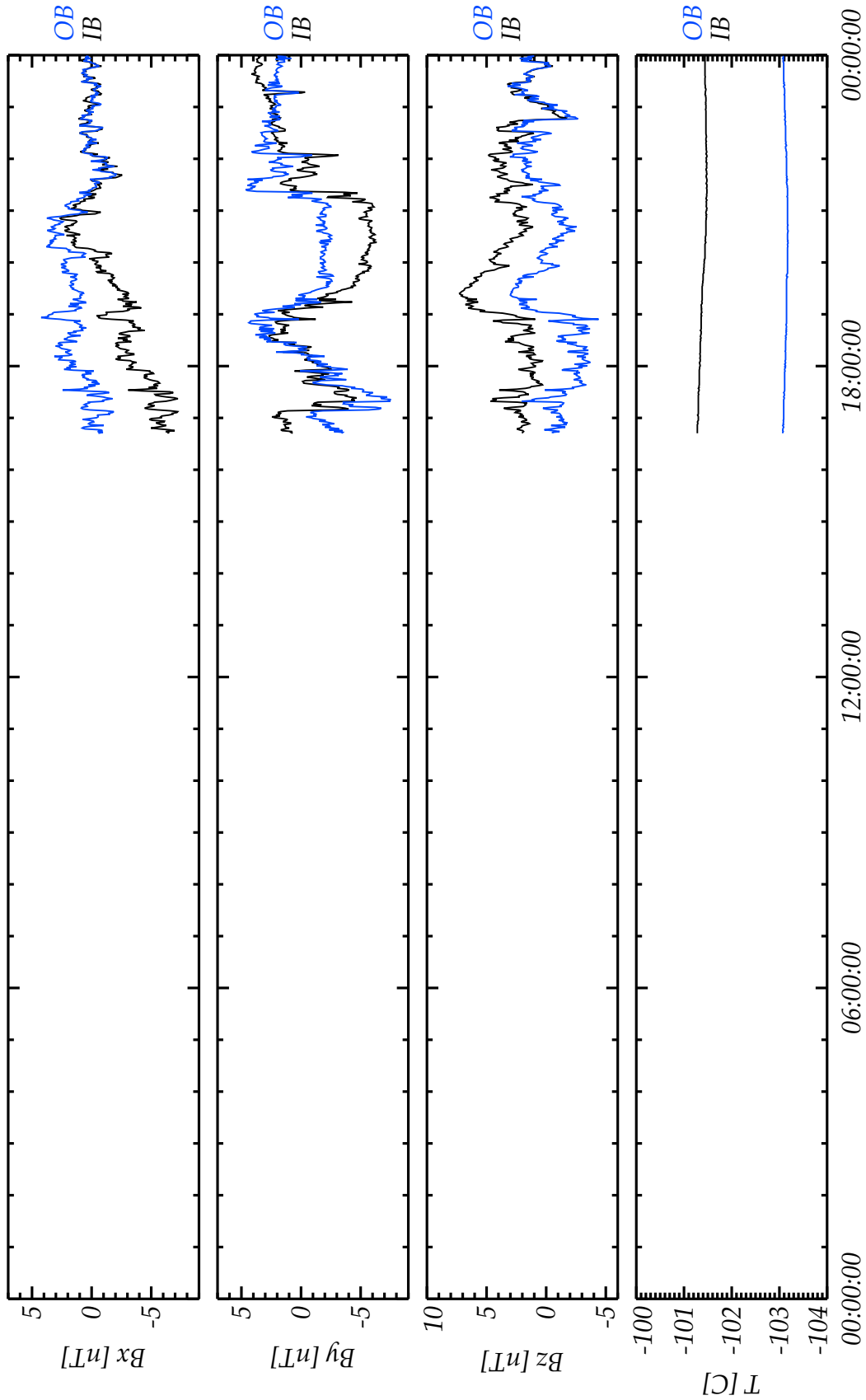


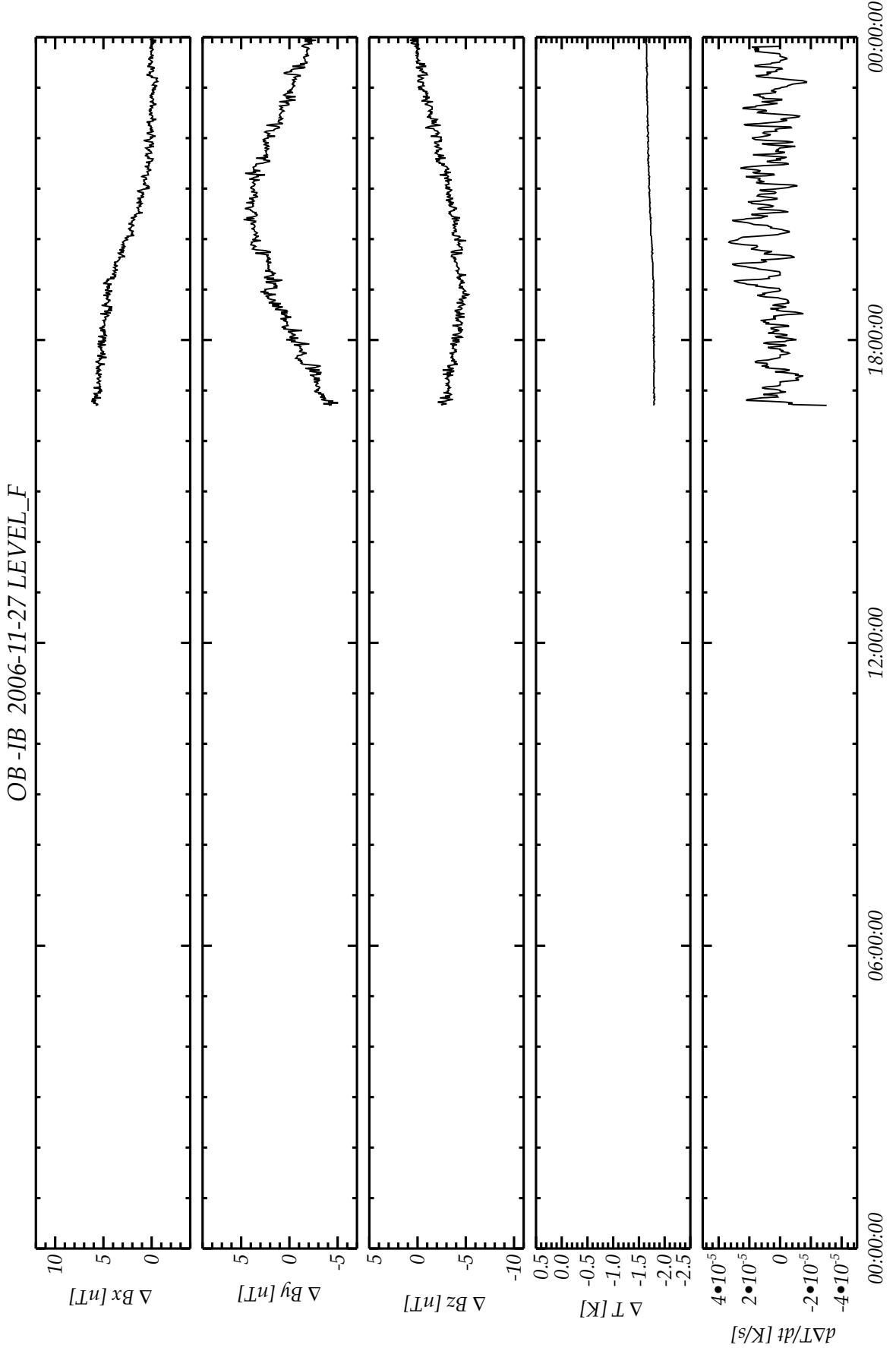
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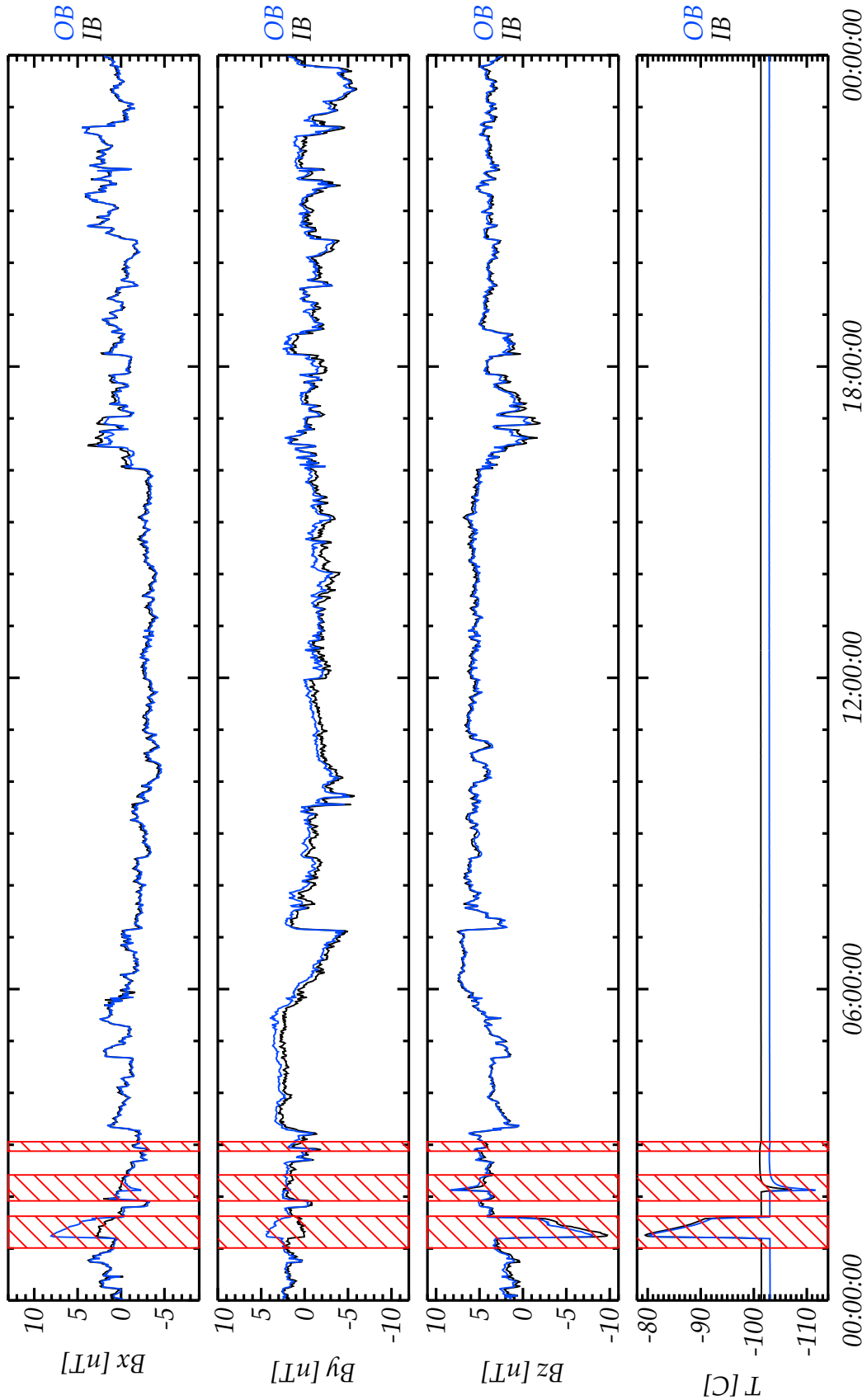


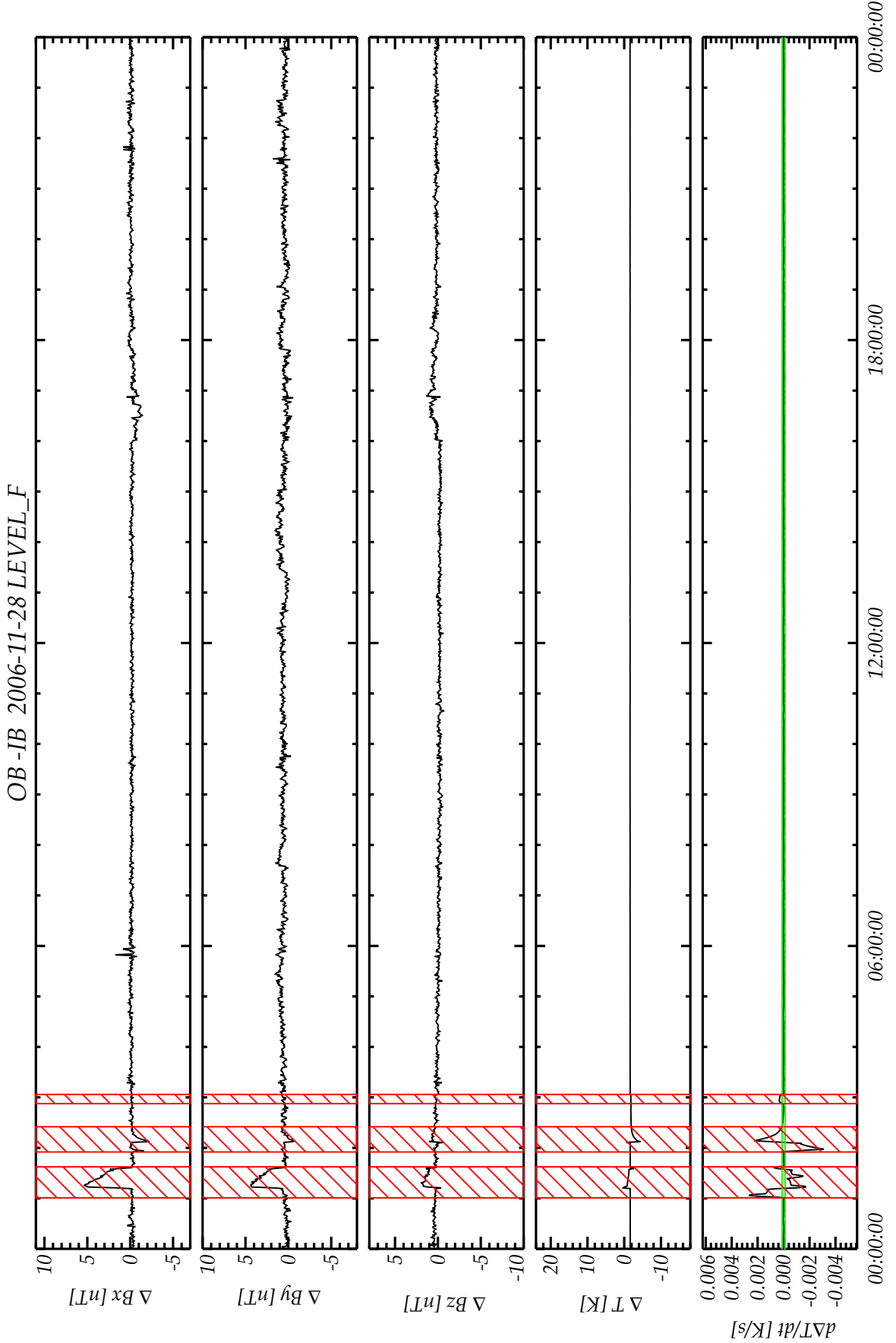
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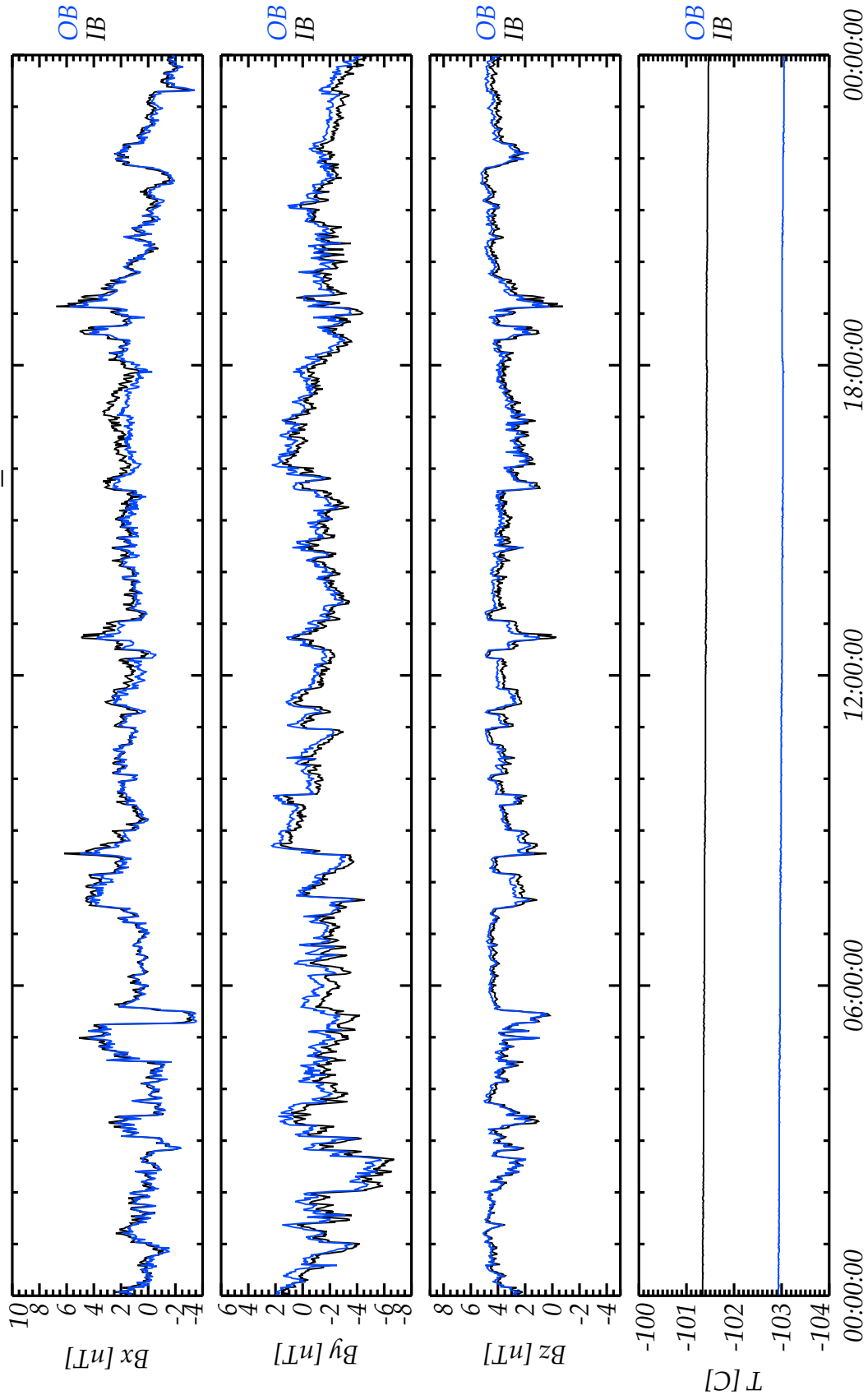


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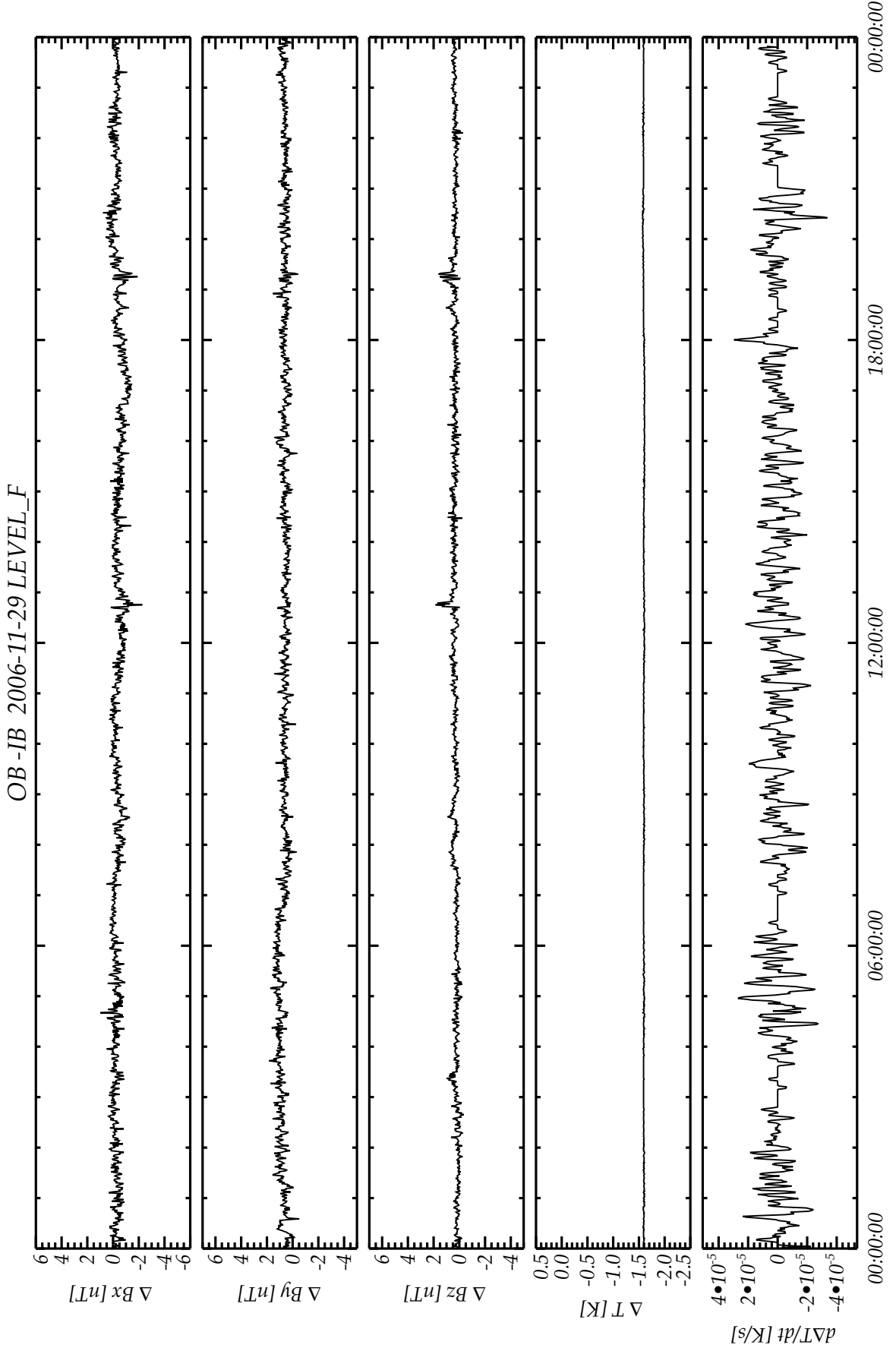
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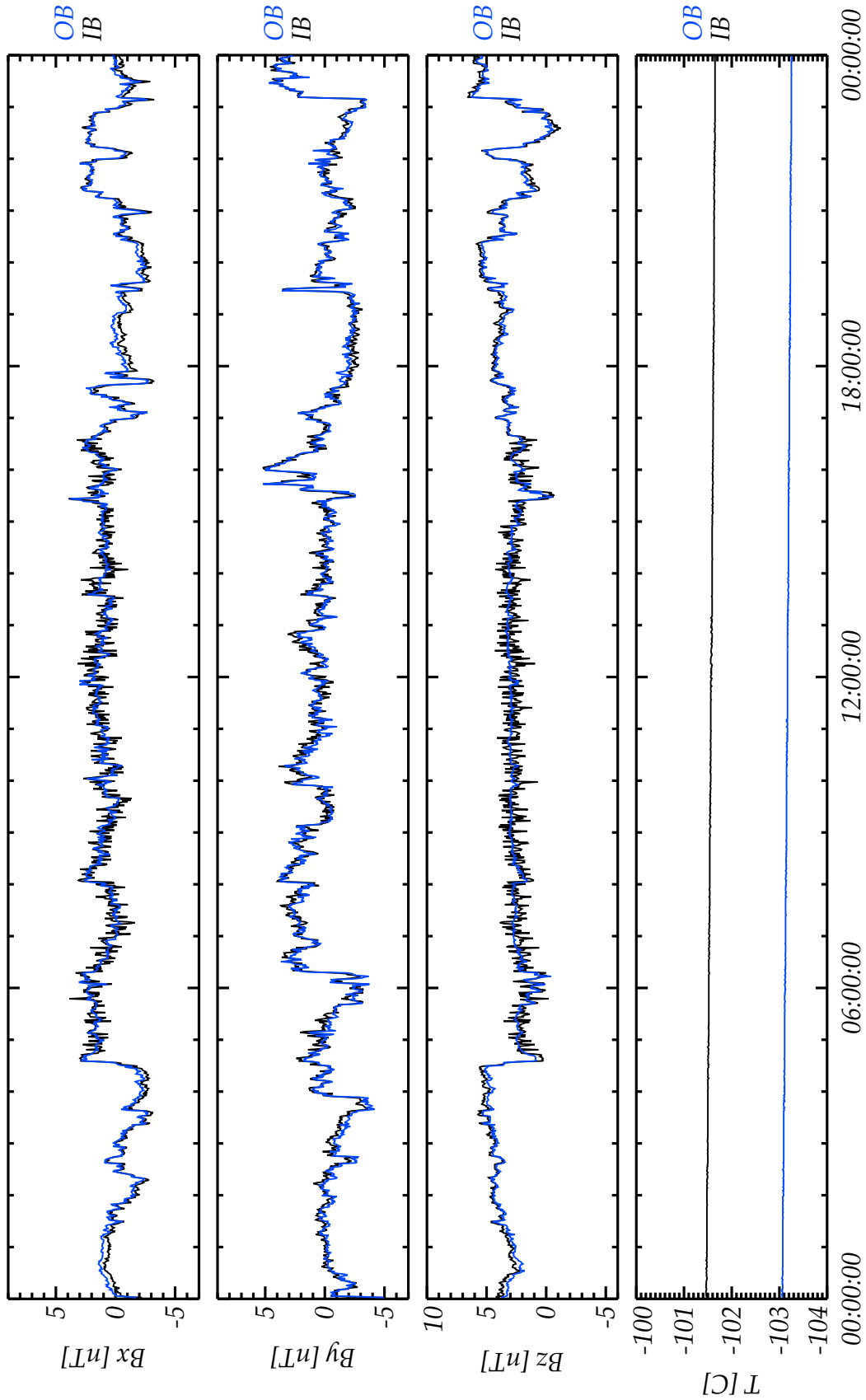
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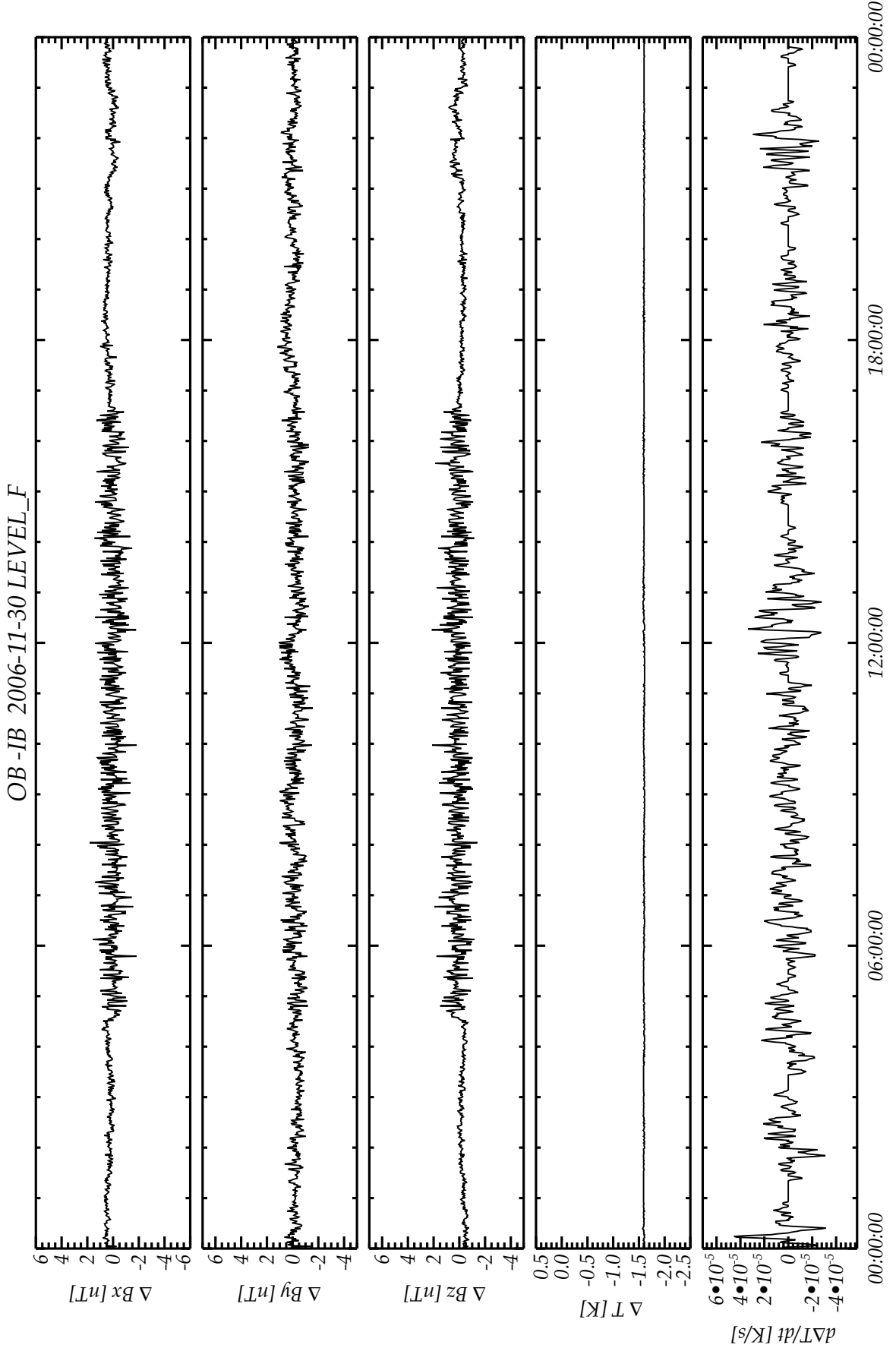
OB vs. IB 2006-11-30 LEVEL_F



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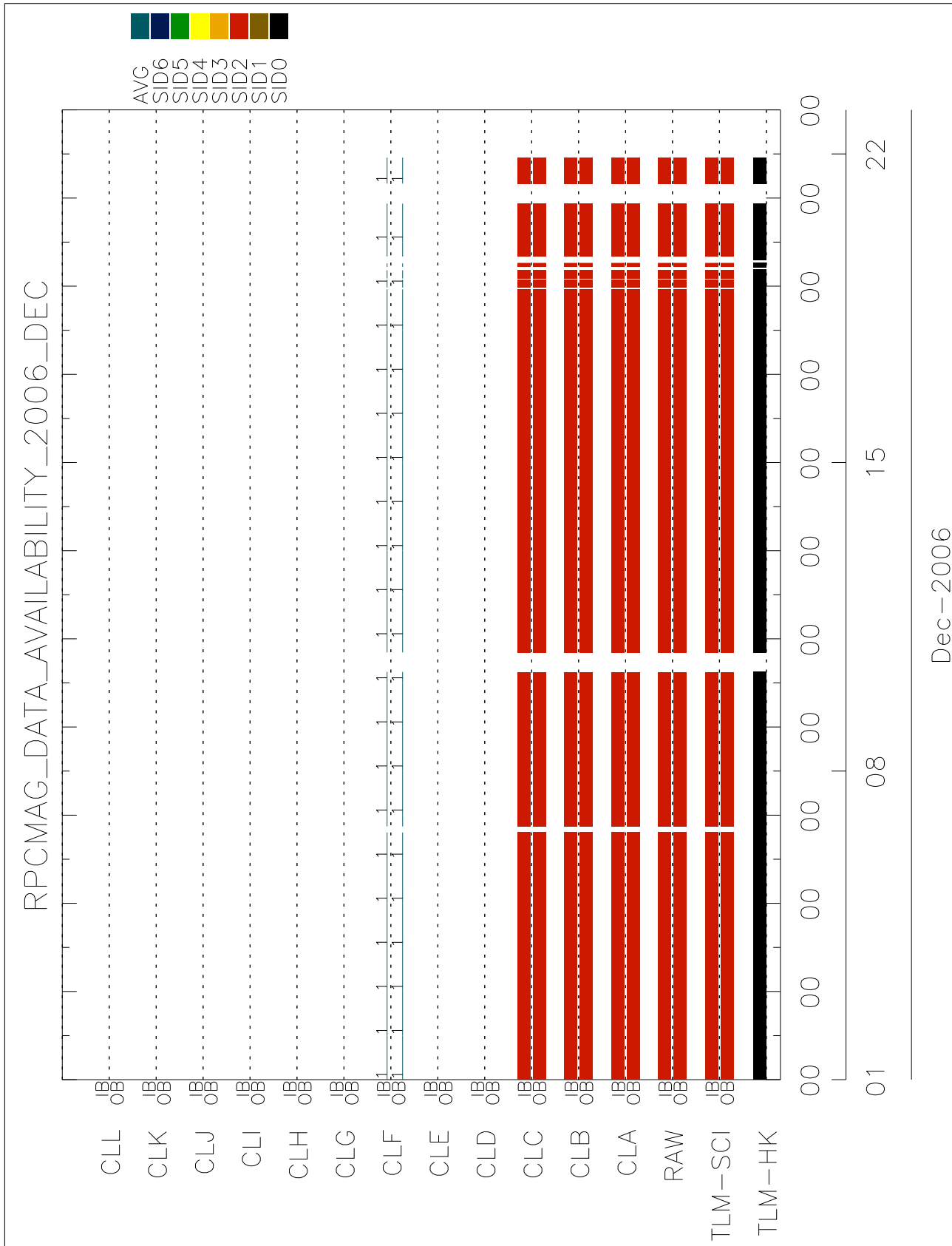


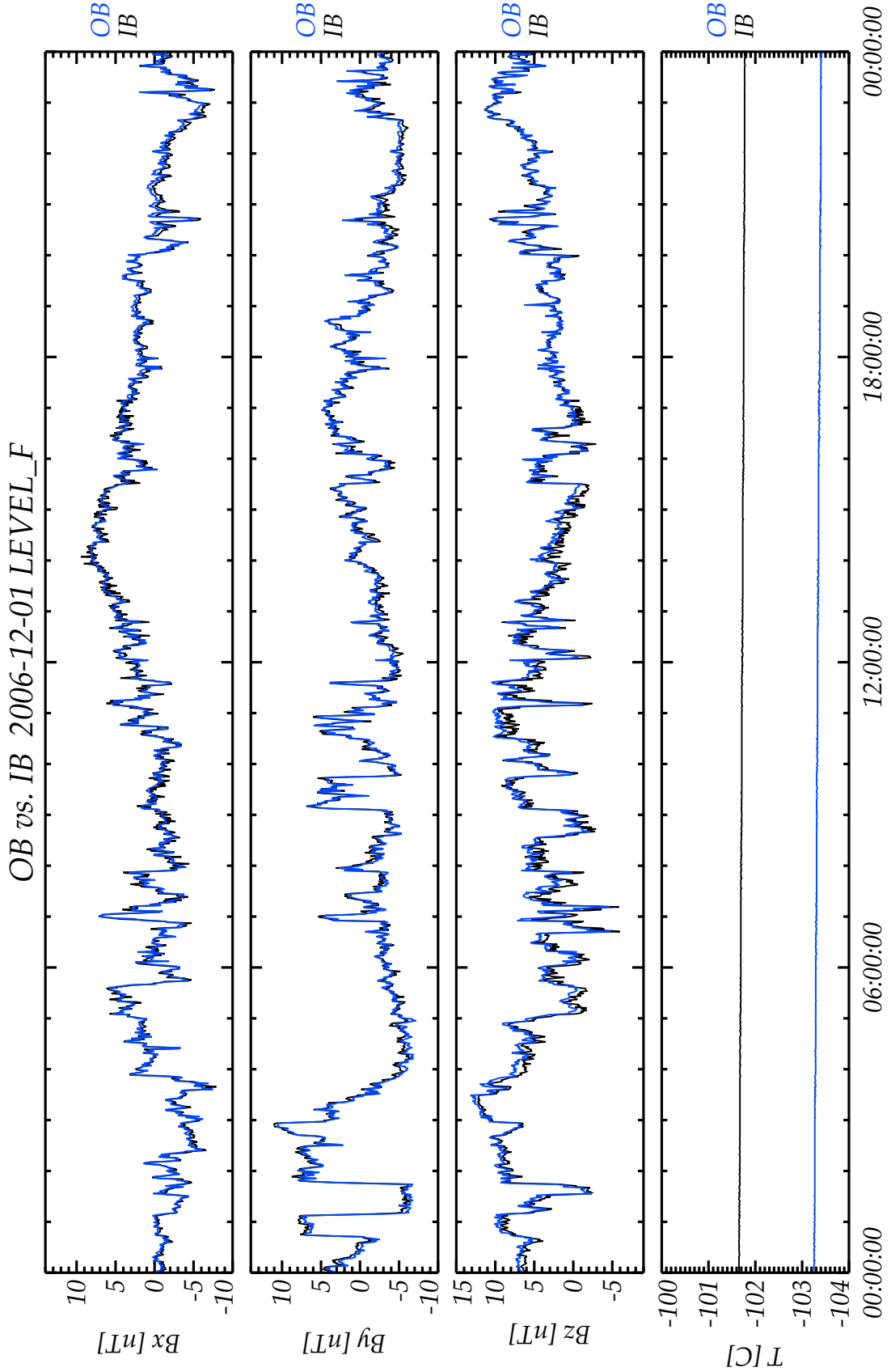
Figure 4: Overview December 2006

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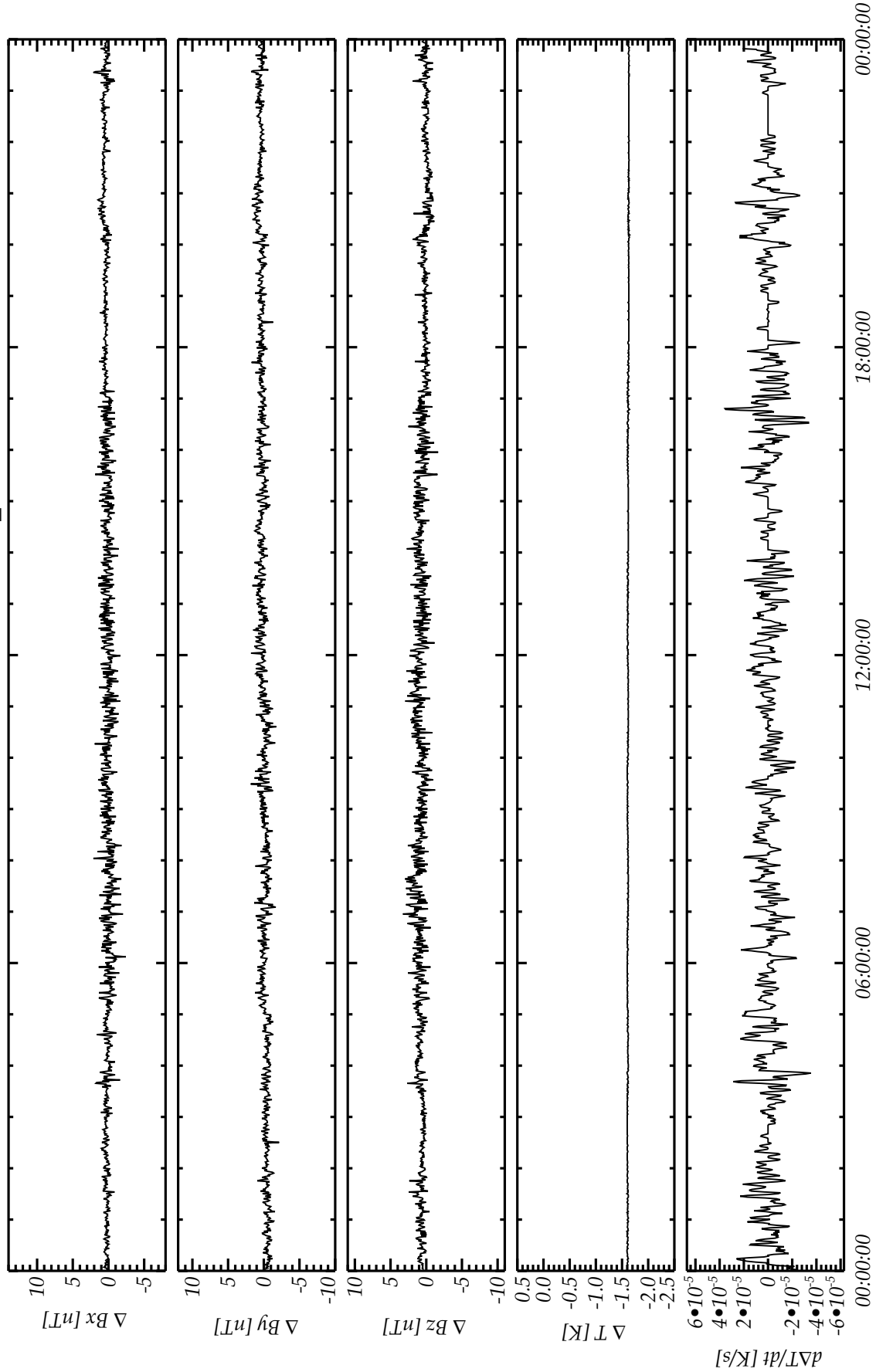
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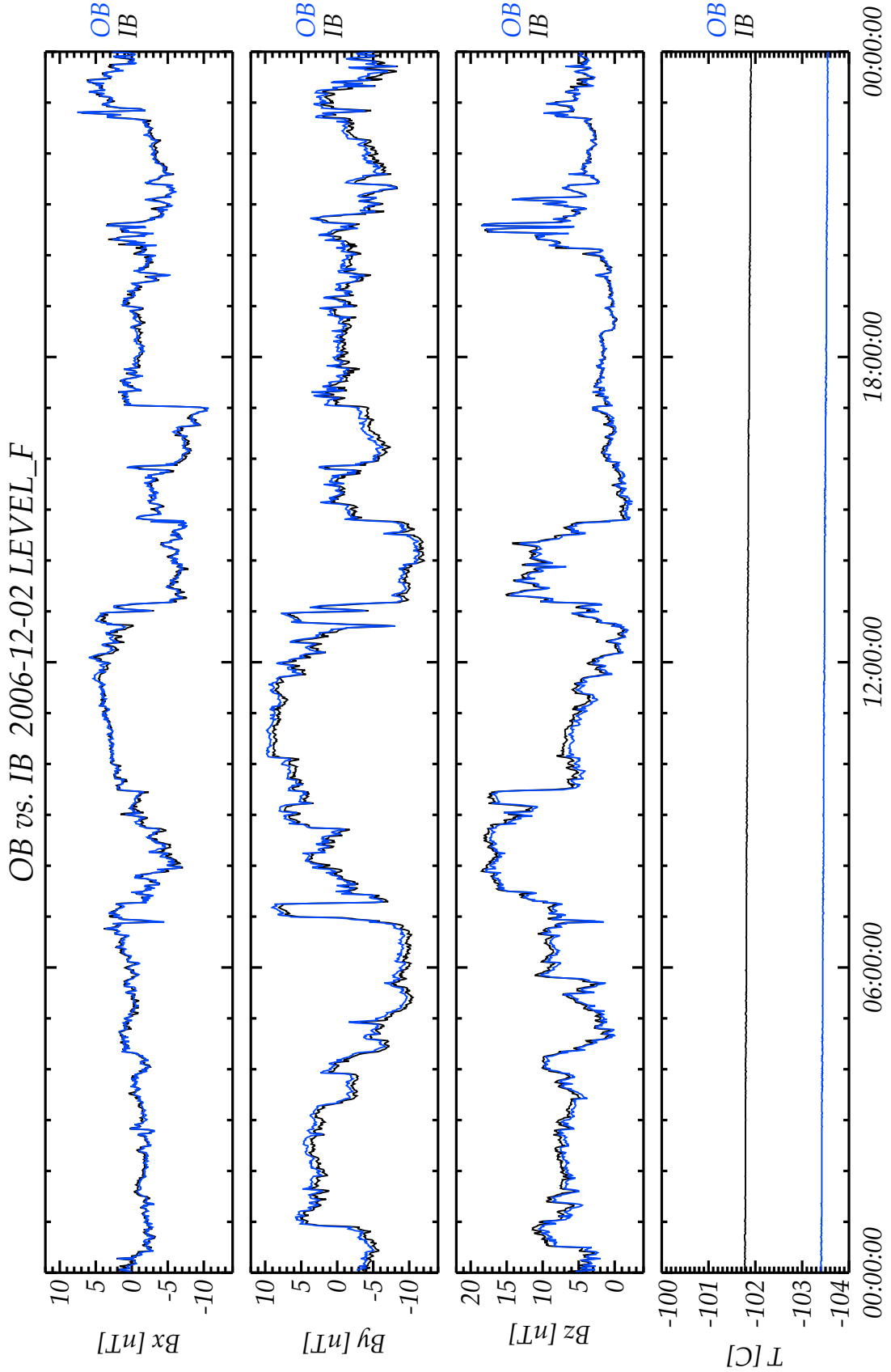
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DATE	LEVEL	AVERAGE [s]	SENSOR
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2006-12-01	CLF	1	IB
2006-12-02	CLF	1	OB
2006-12-02	CLF	1	IB
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2006-12-03	CLF	1	IB
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2006-12-08	CLF	1	IB
2006-12-09	CLF	1	OB
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2006-12-16	CLF	1	IB
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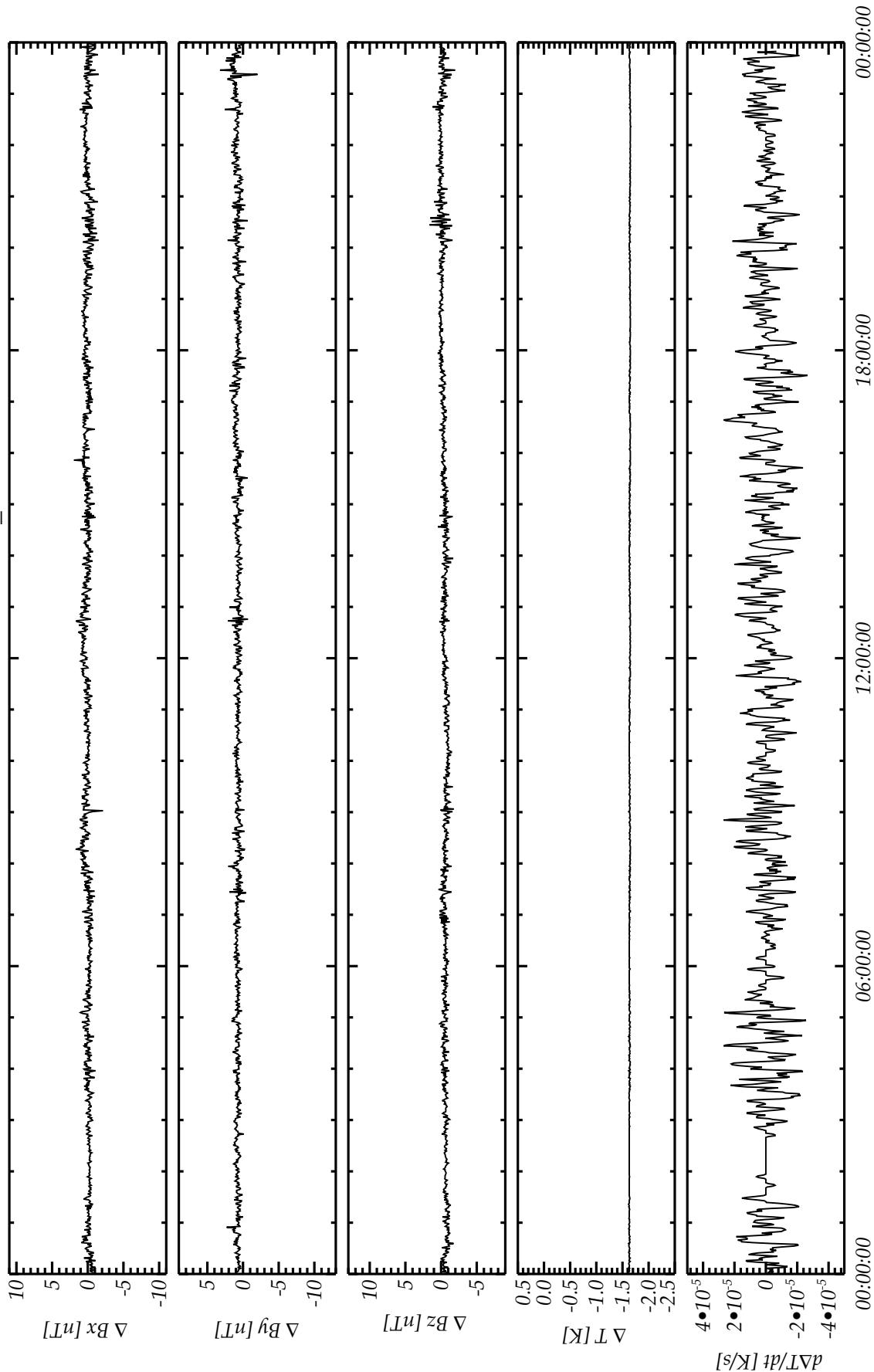


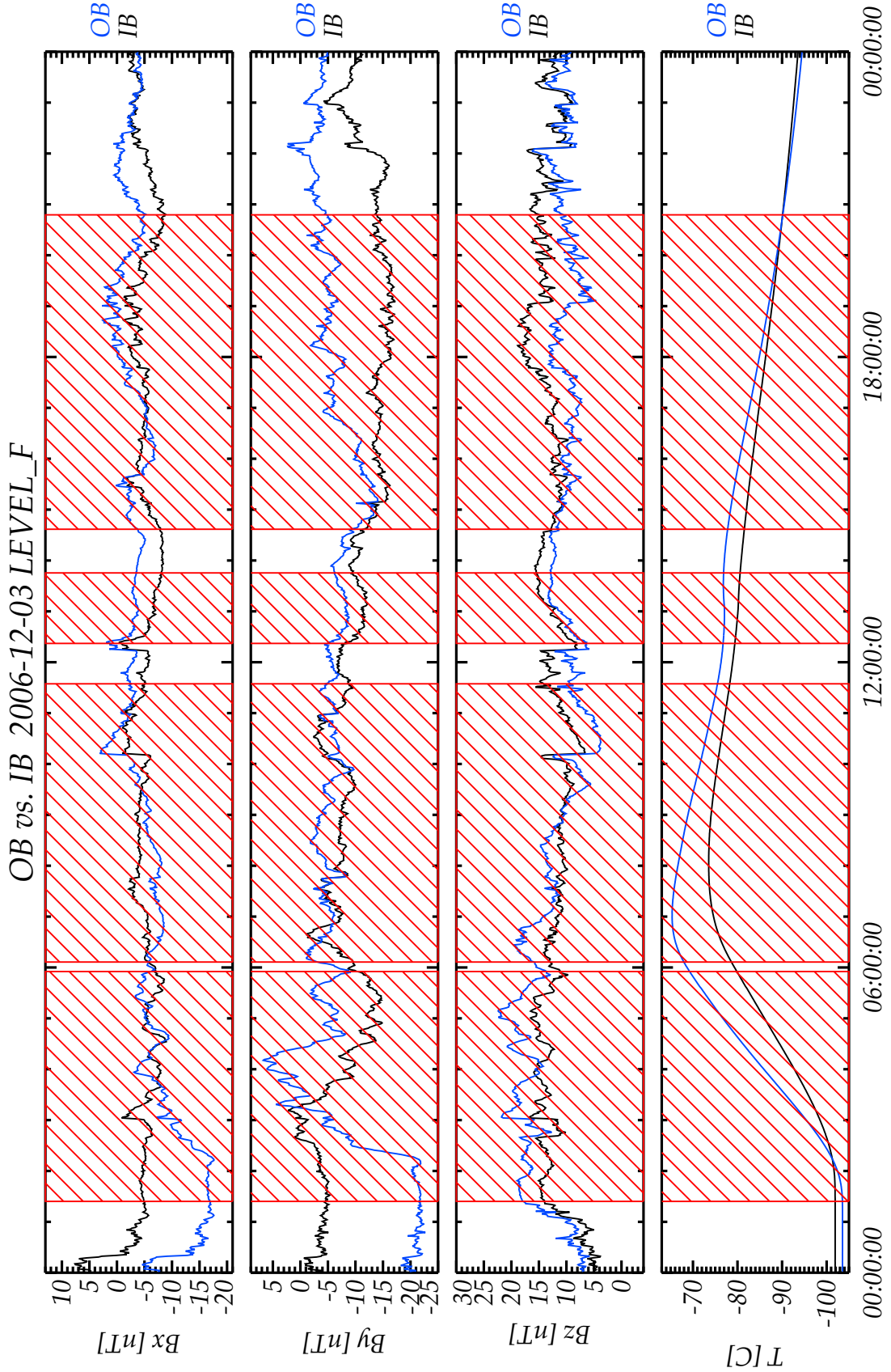
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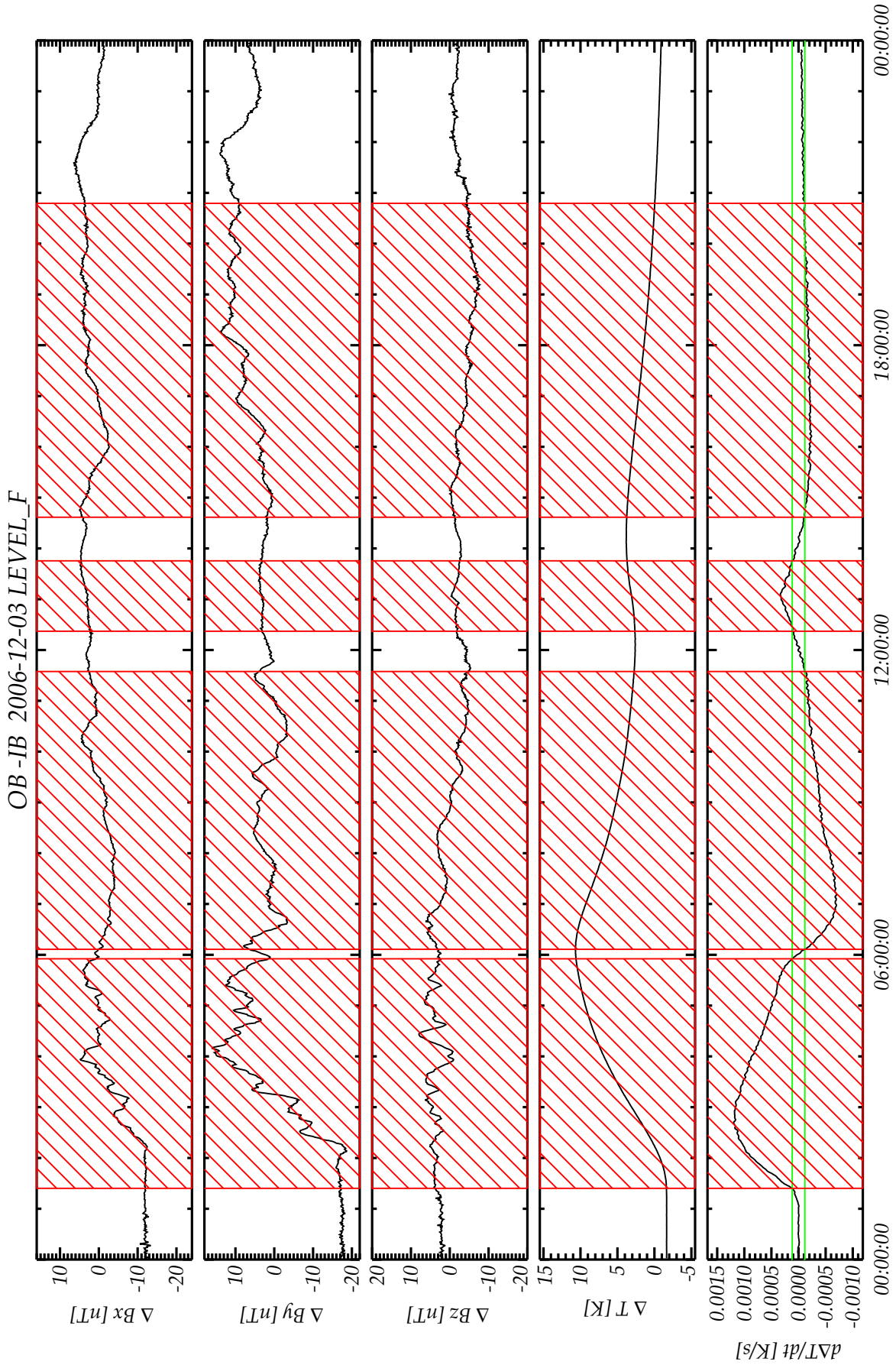


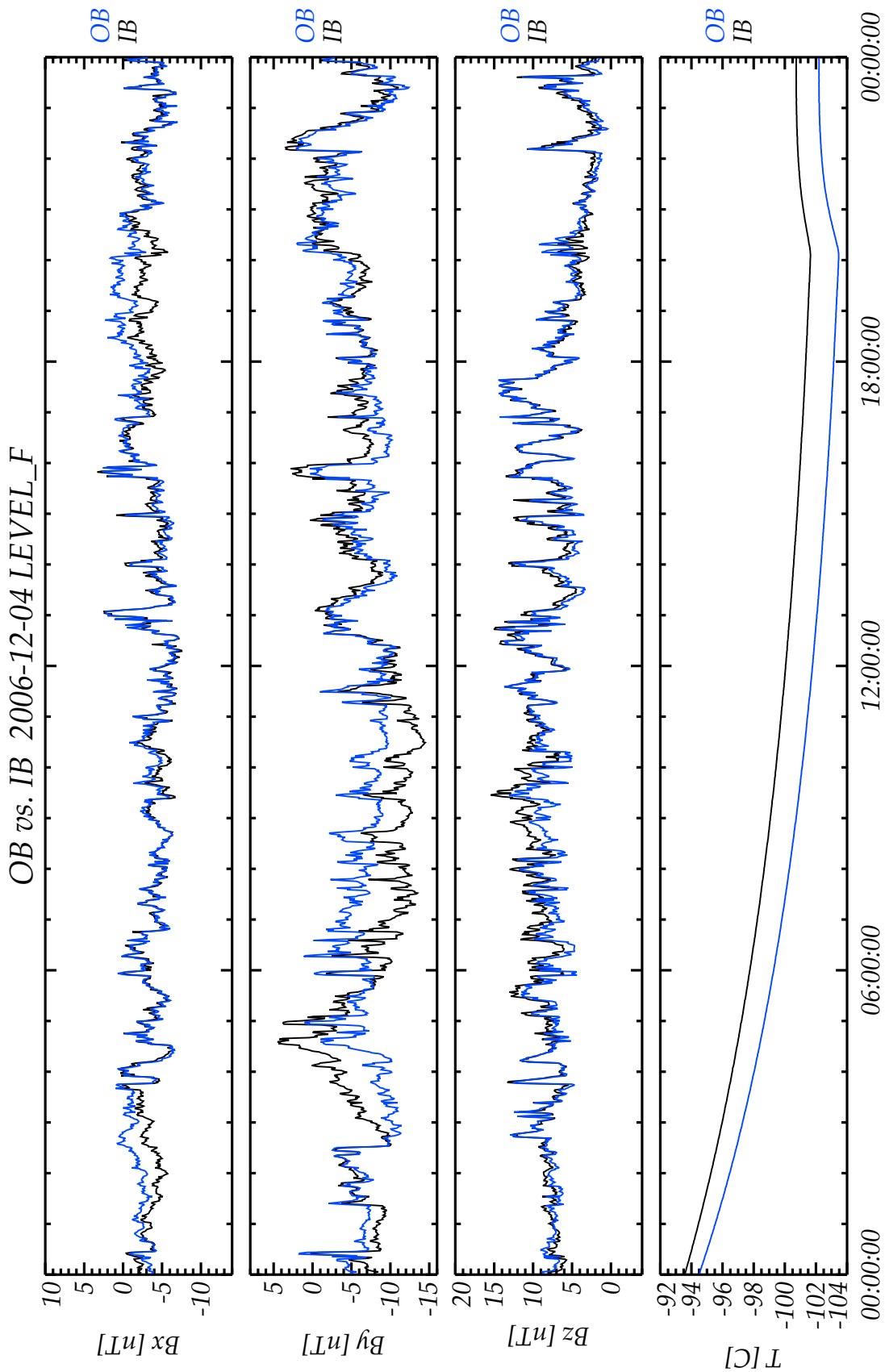


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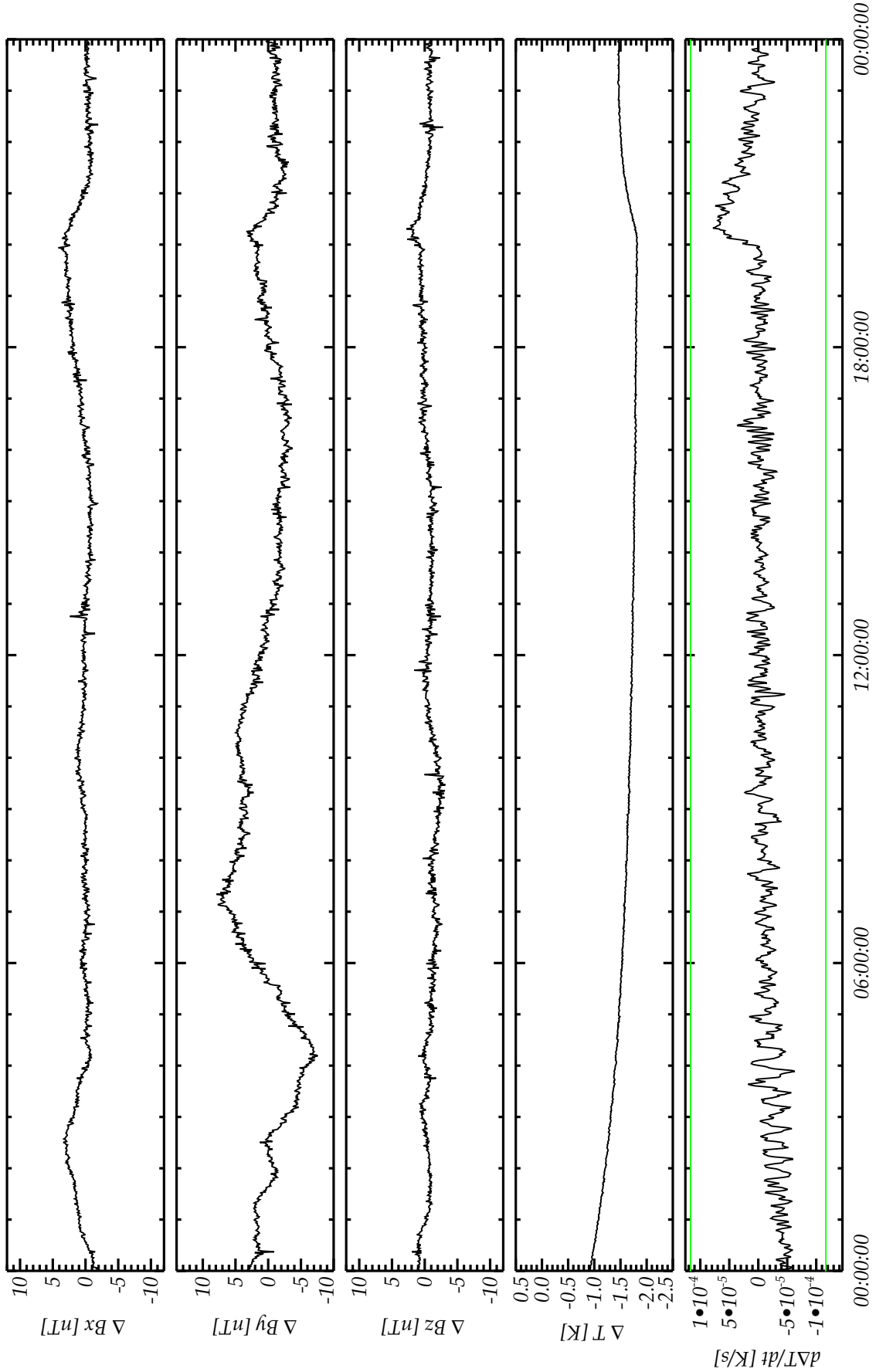




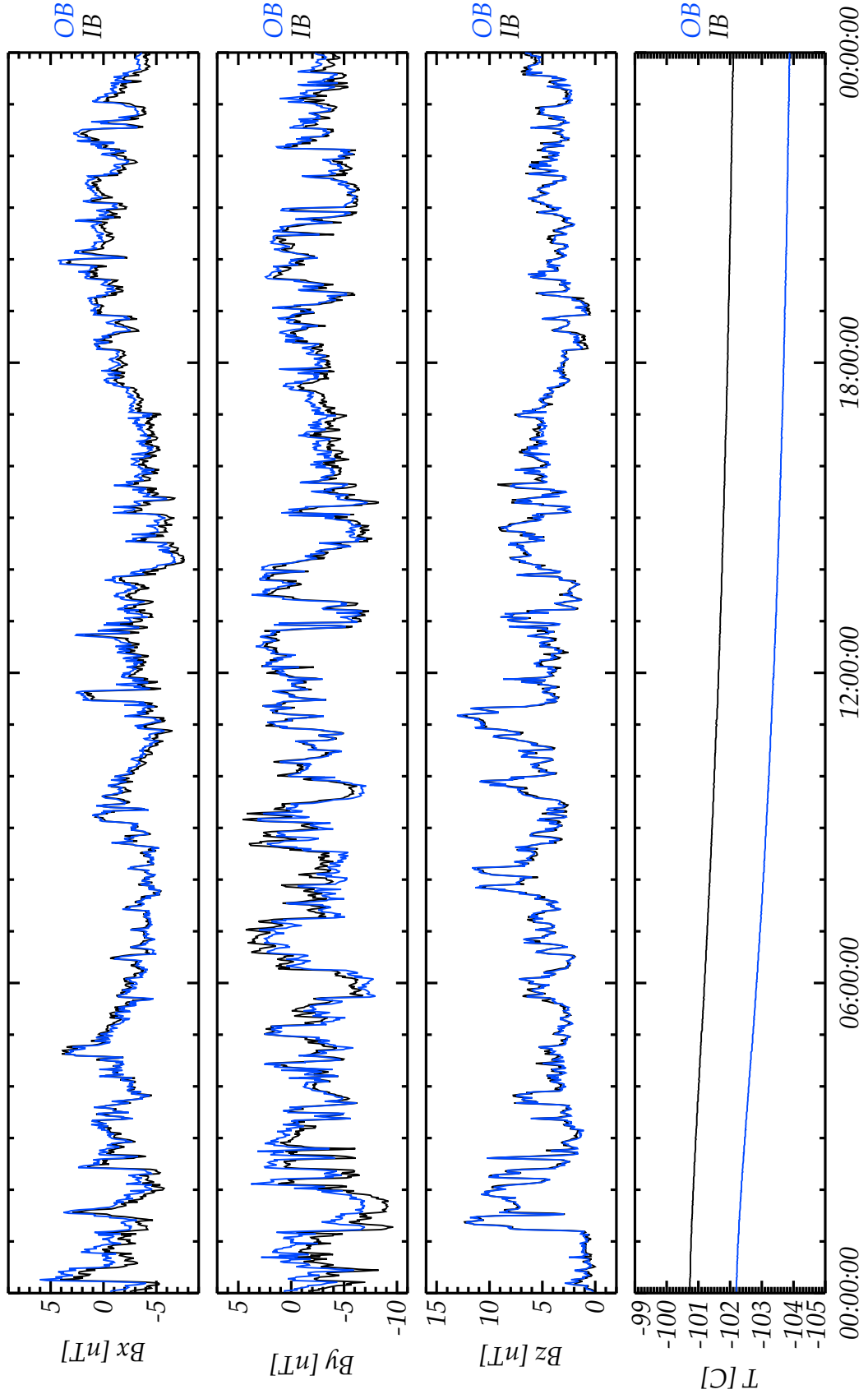




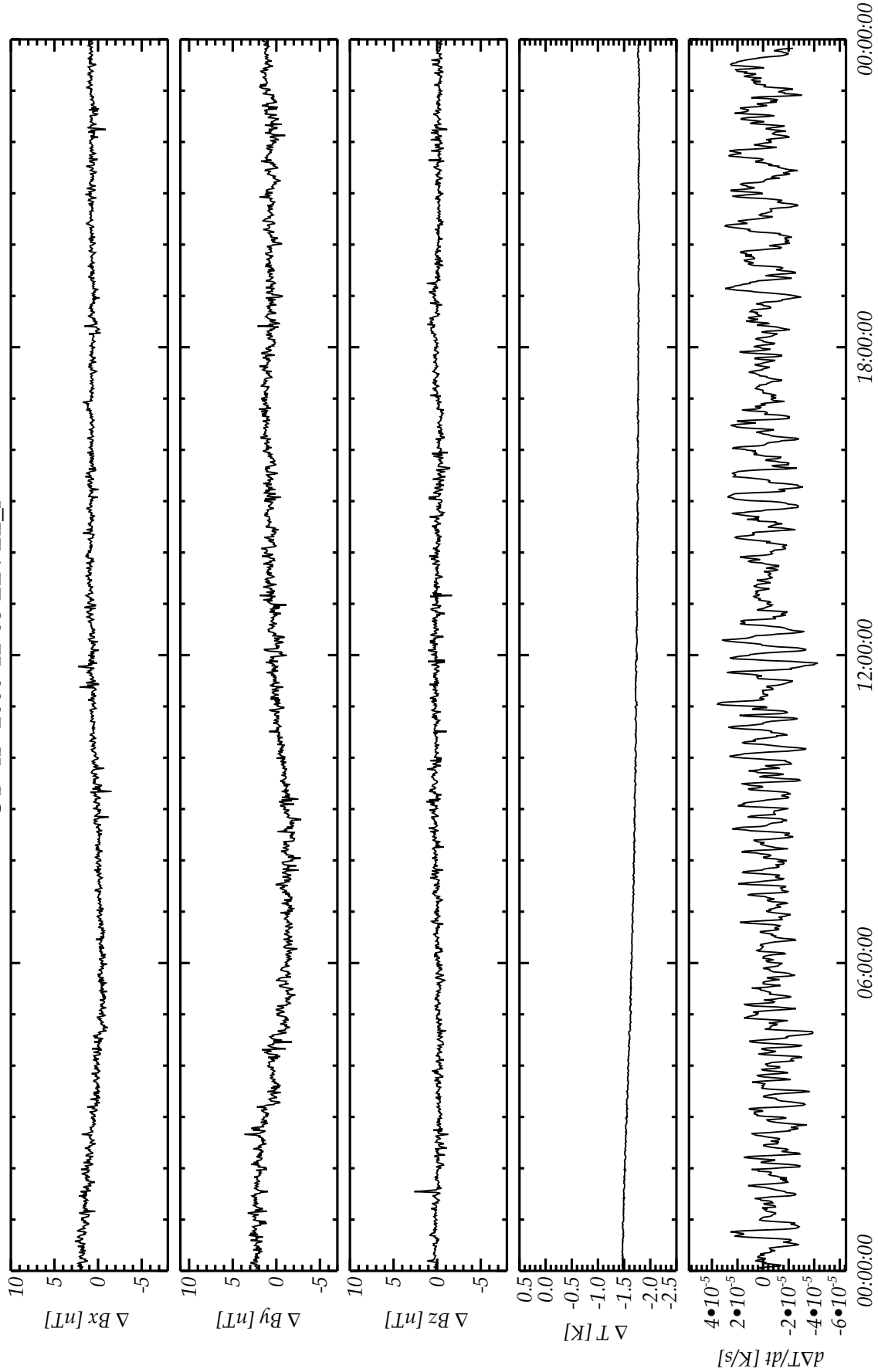
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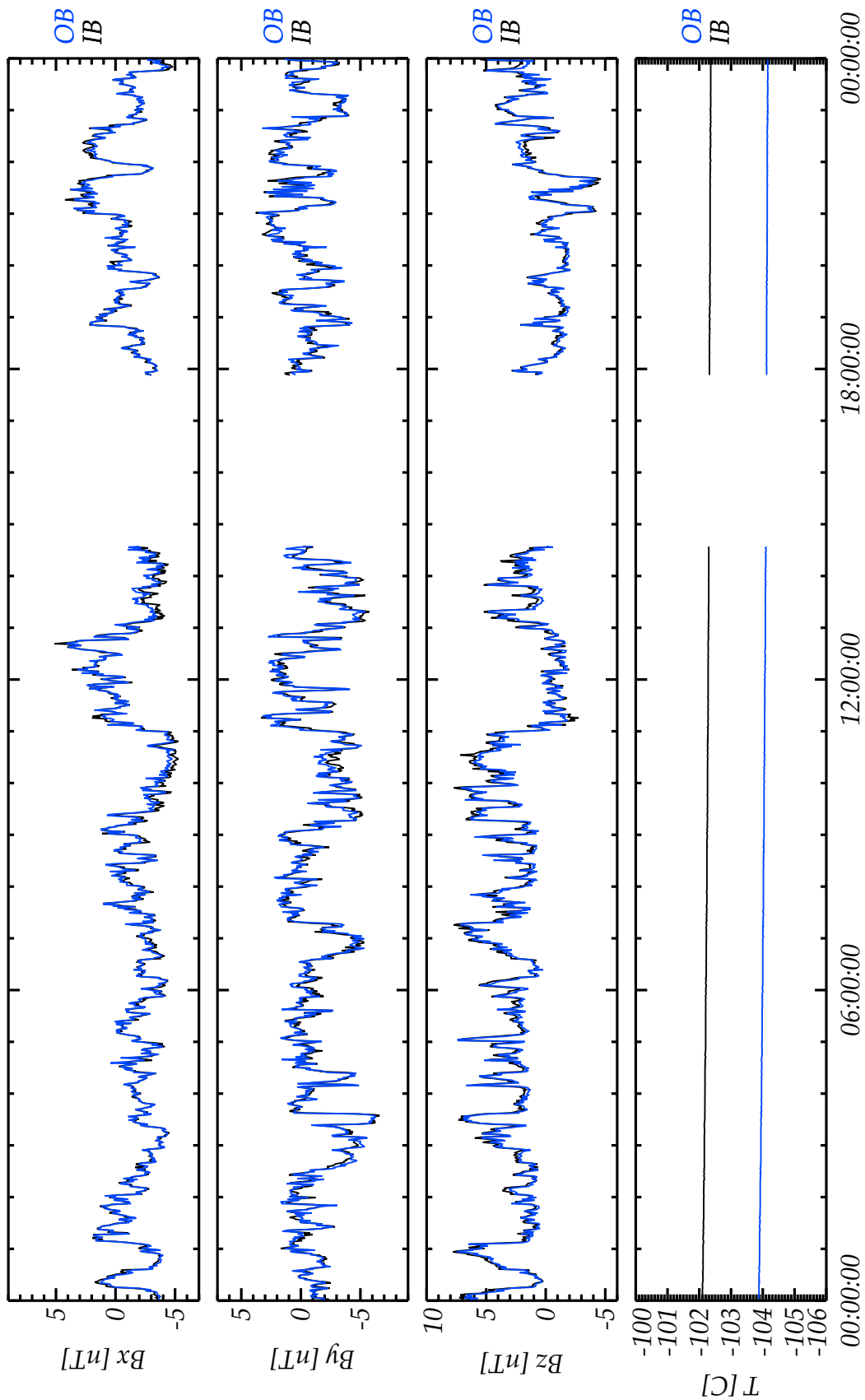
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OB-IB 2006-12-05 LEVEL_F



OB vs. IB 2006-12-06 LEVEL_F



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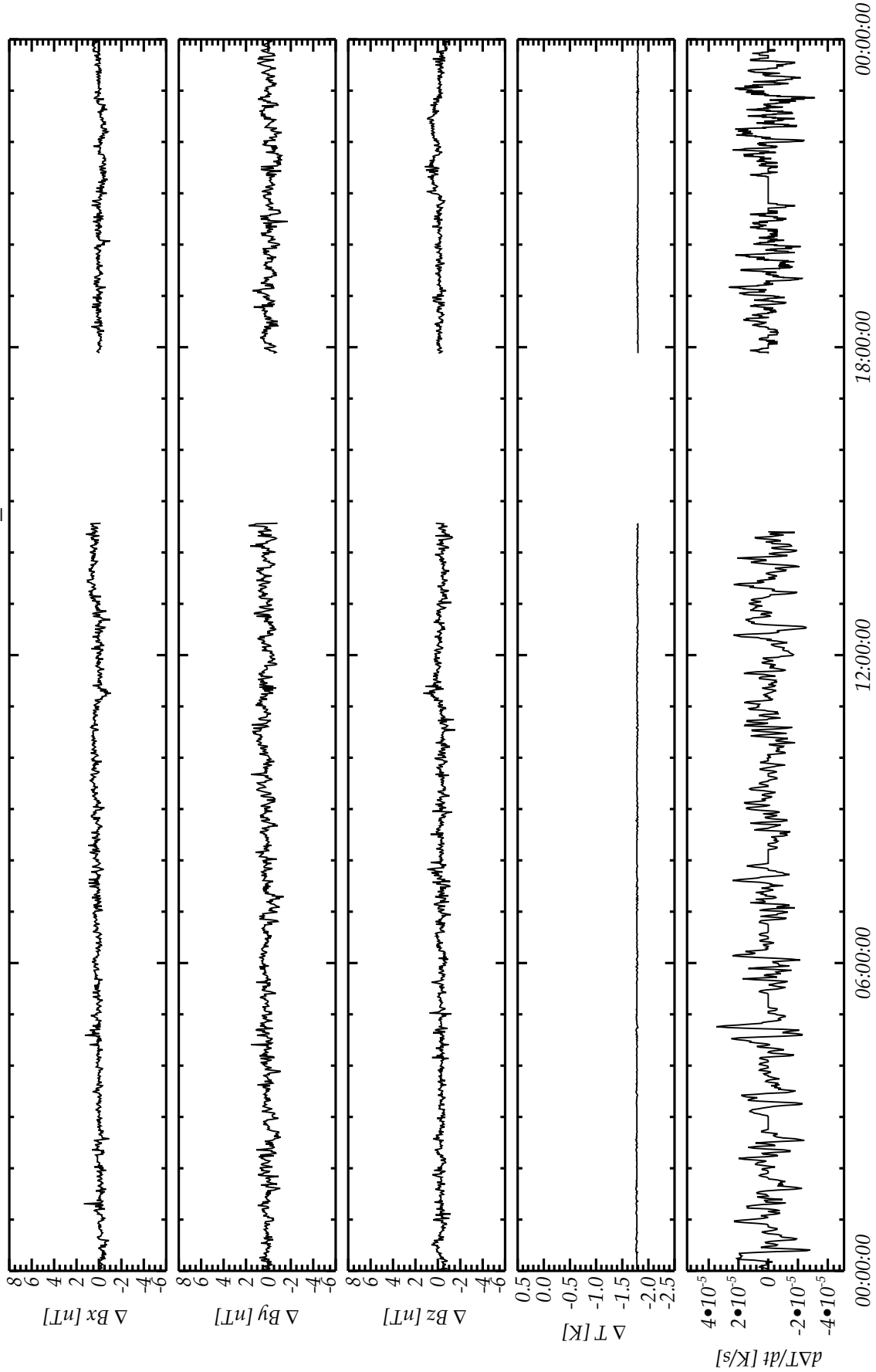
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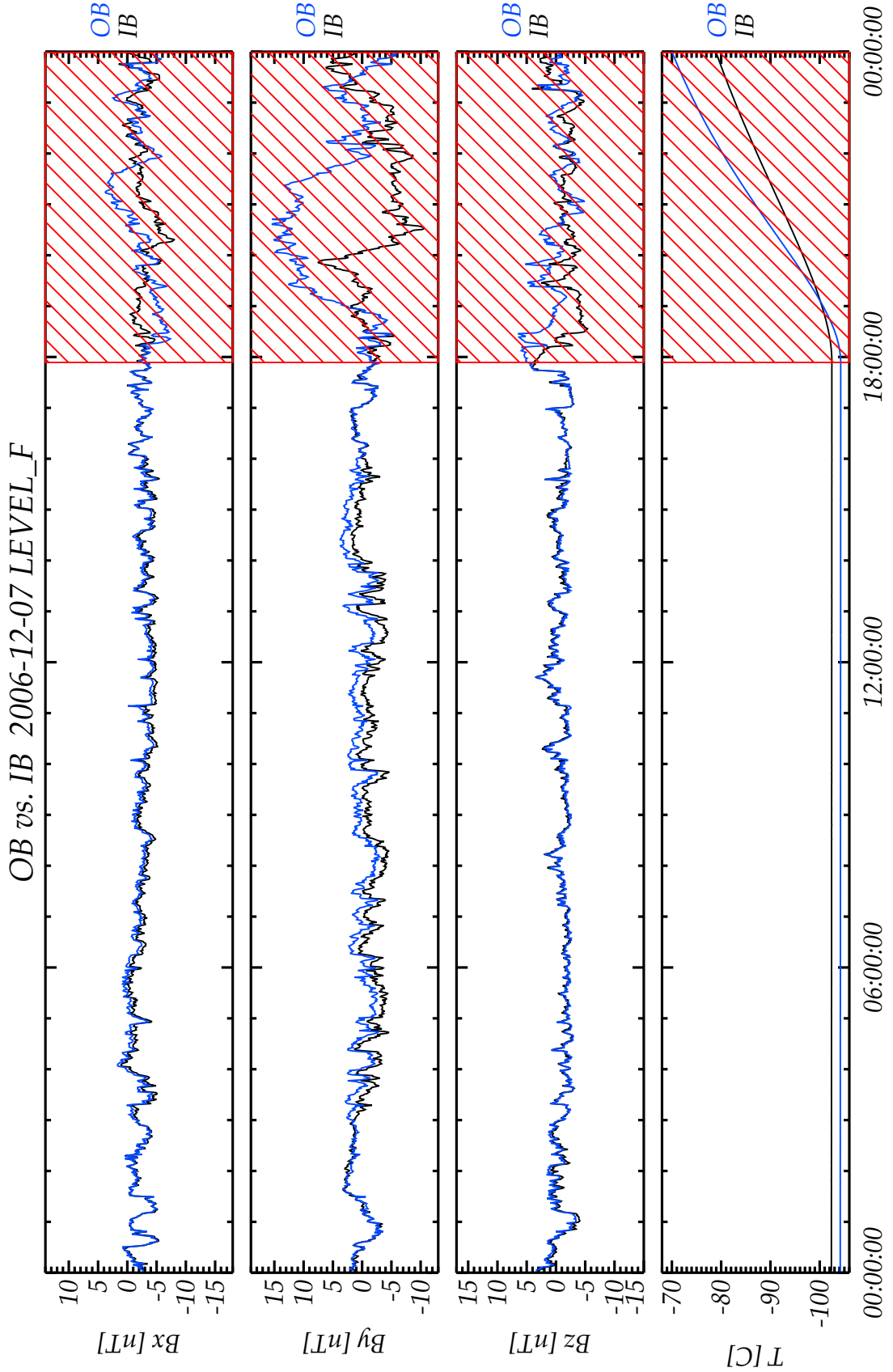
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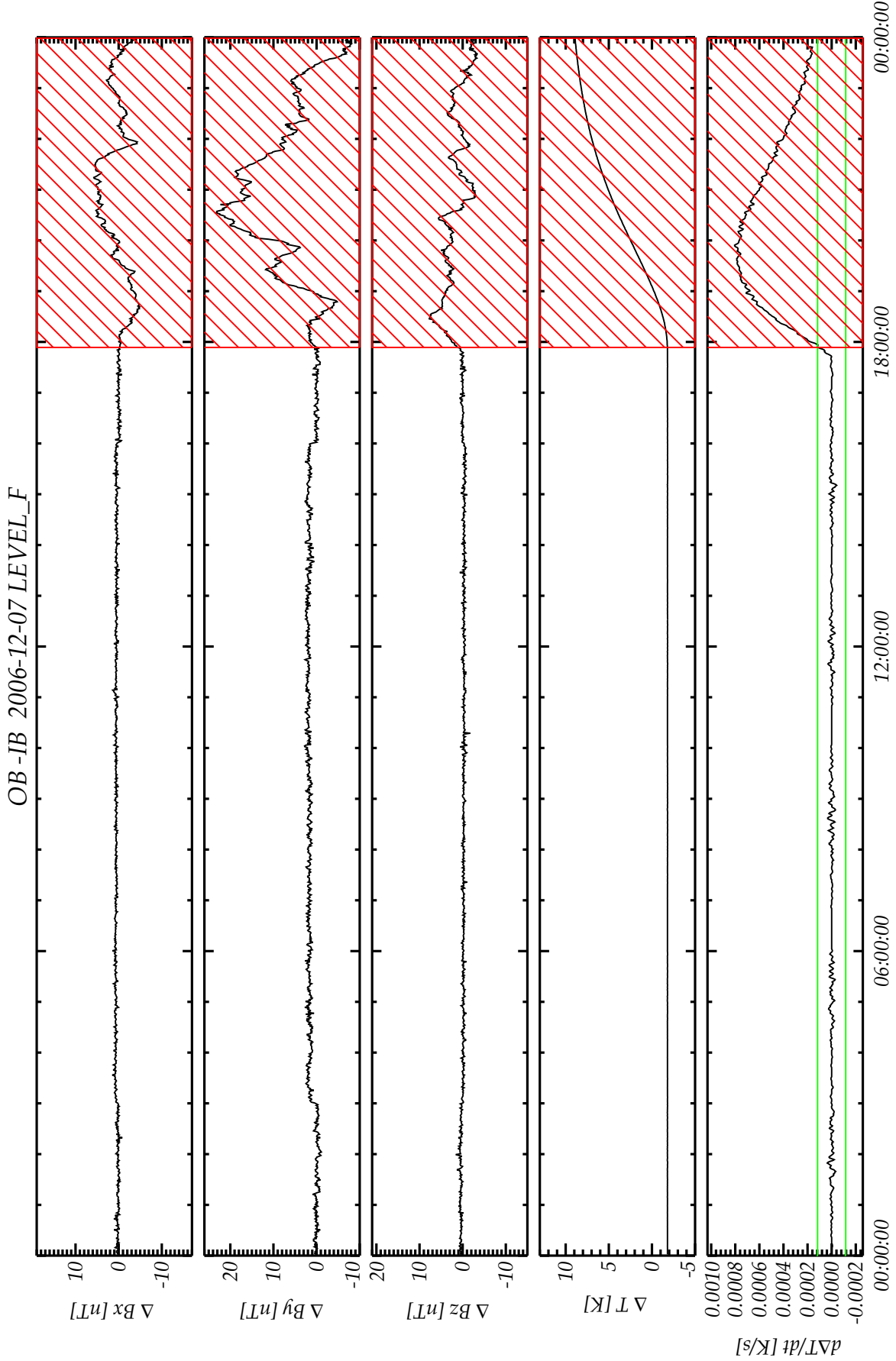
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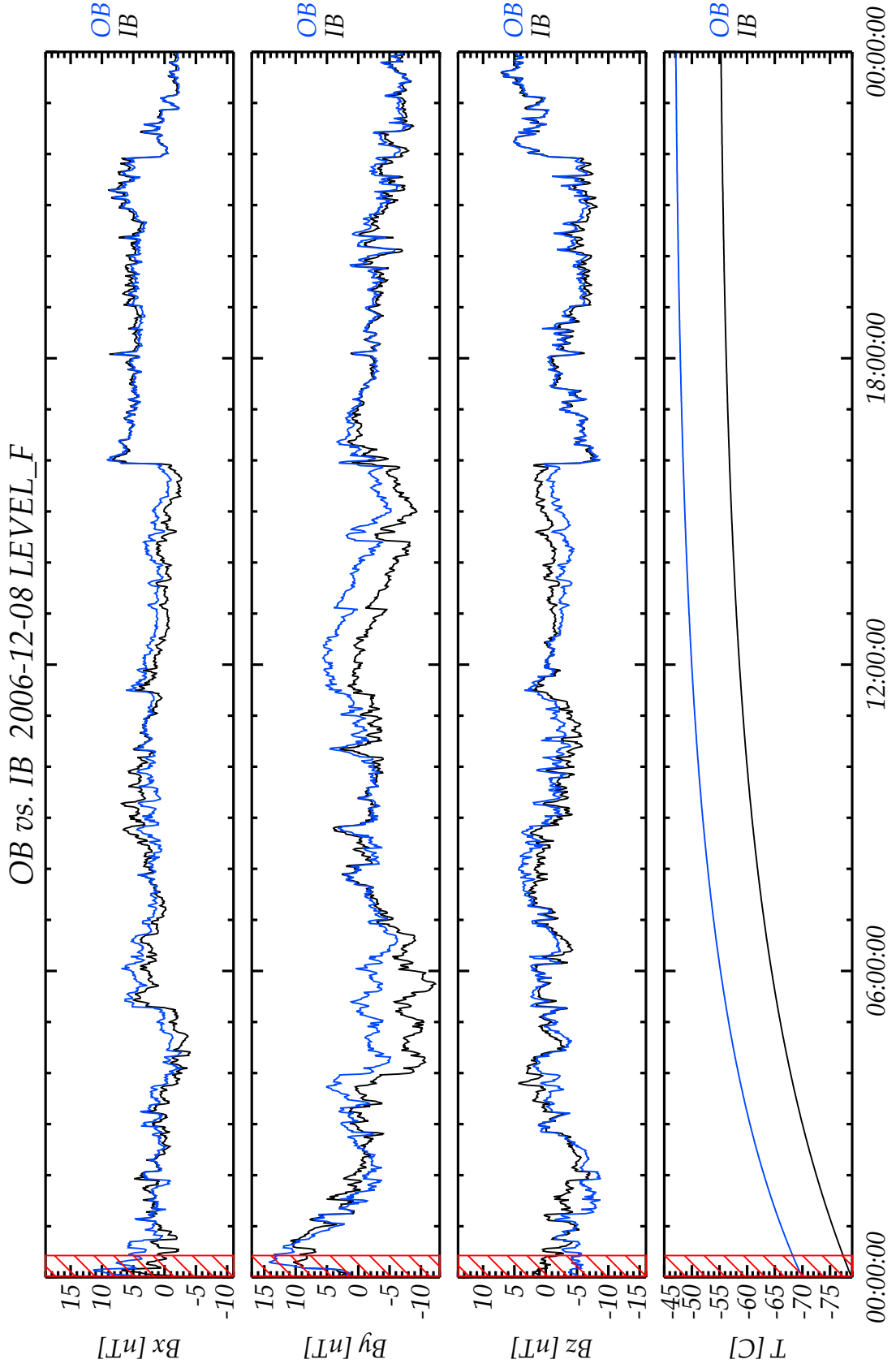
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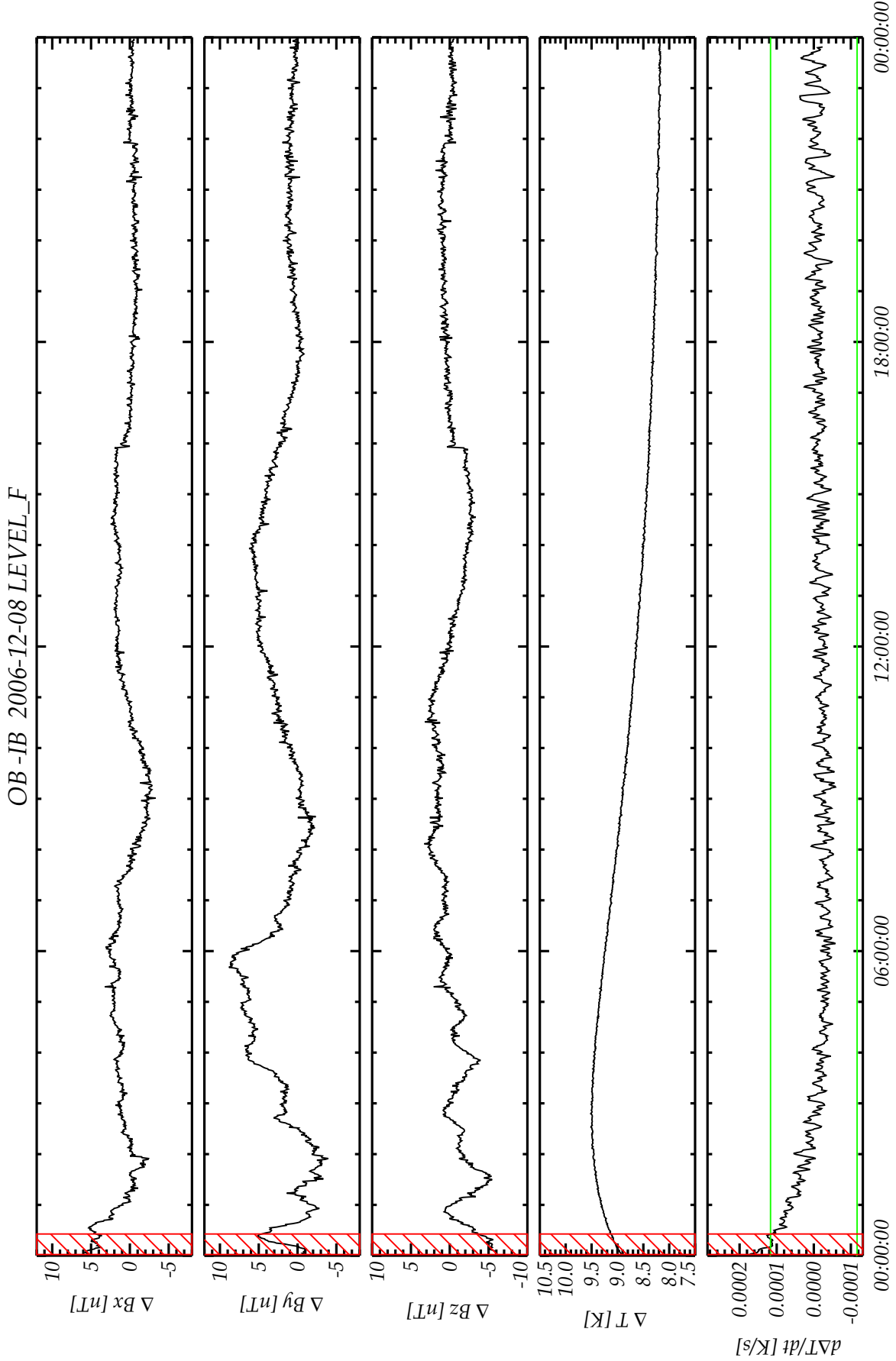
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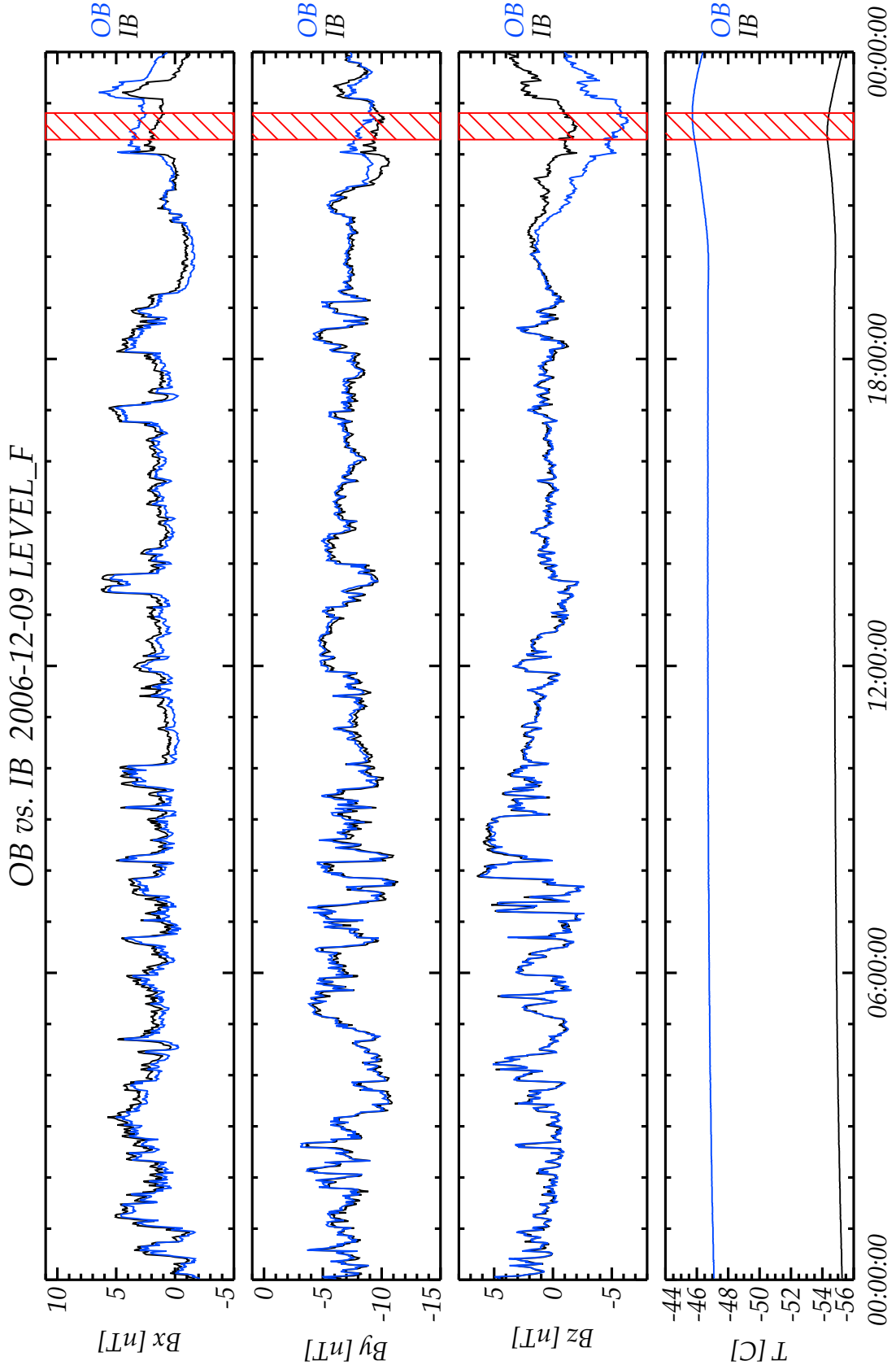




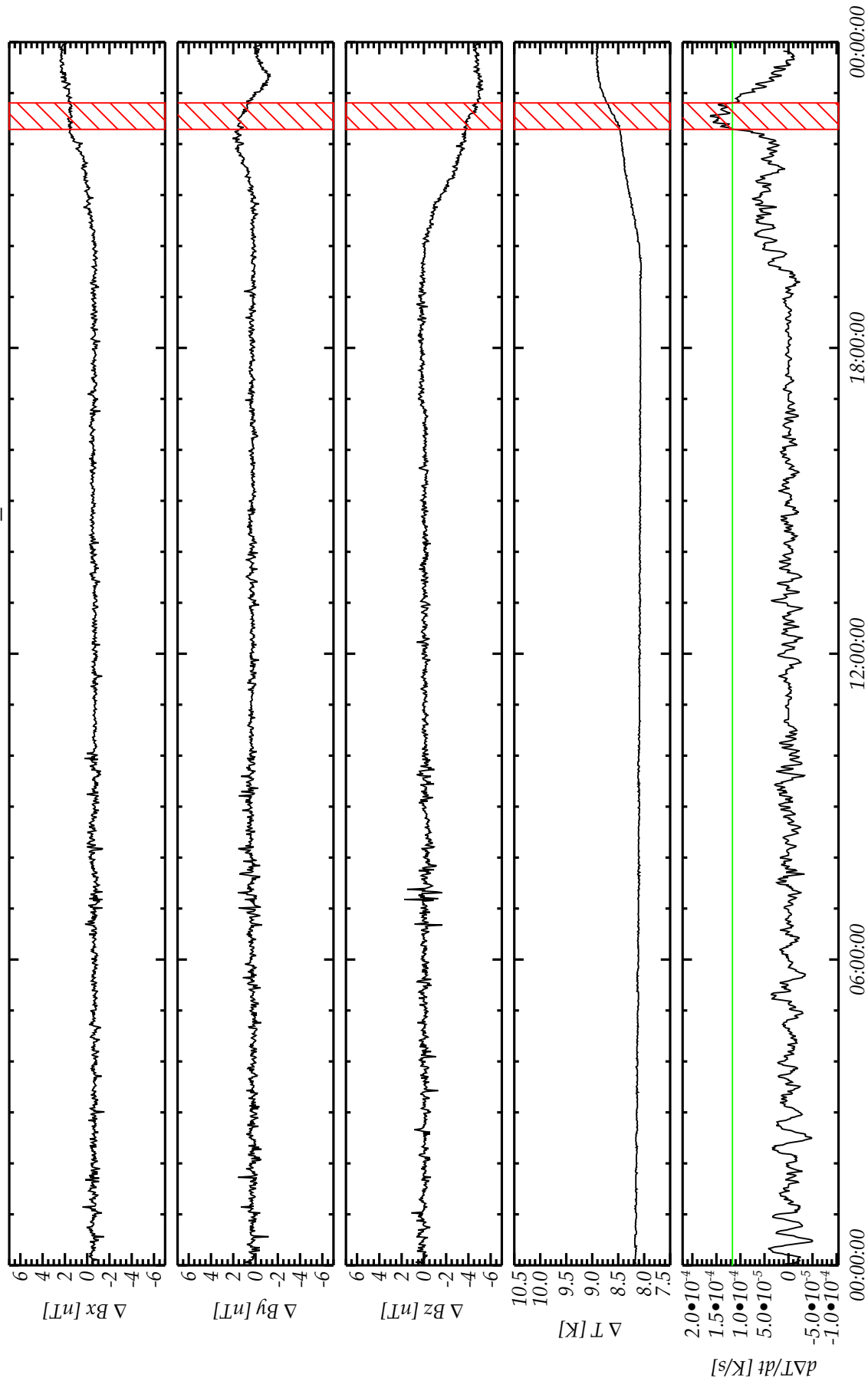


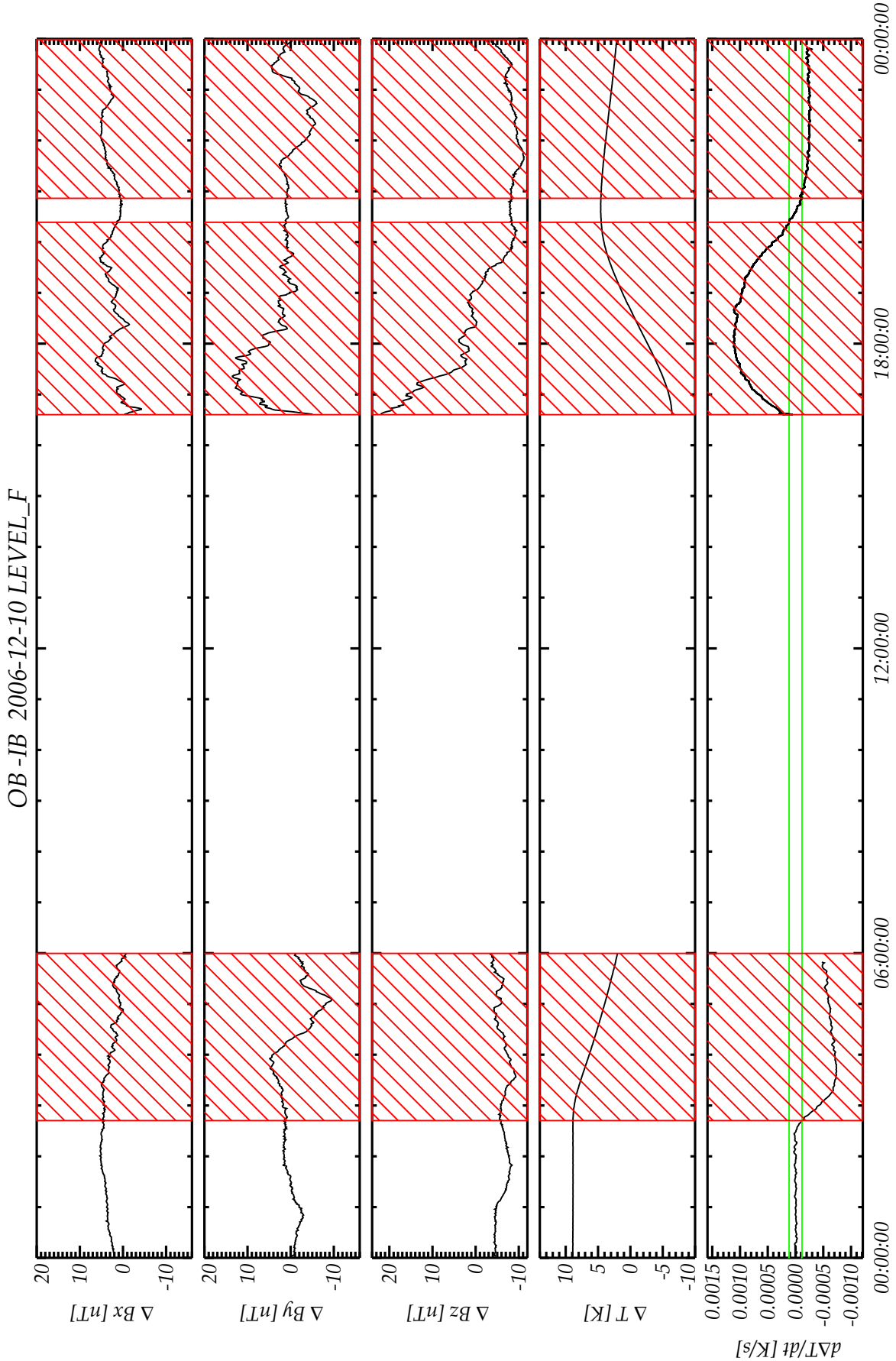


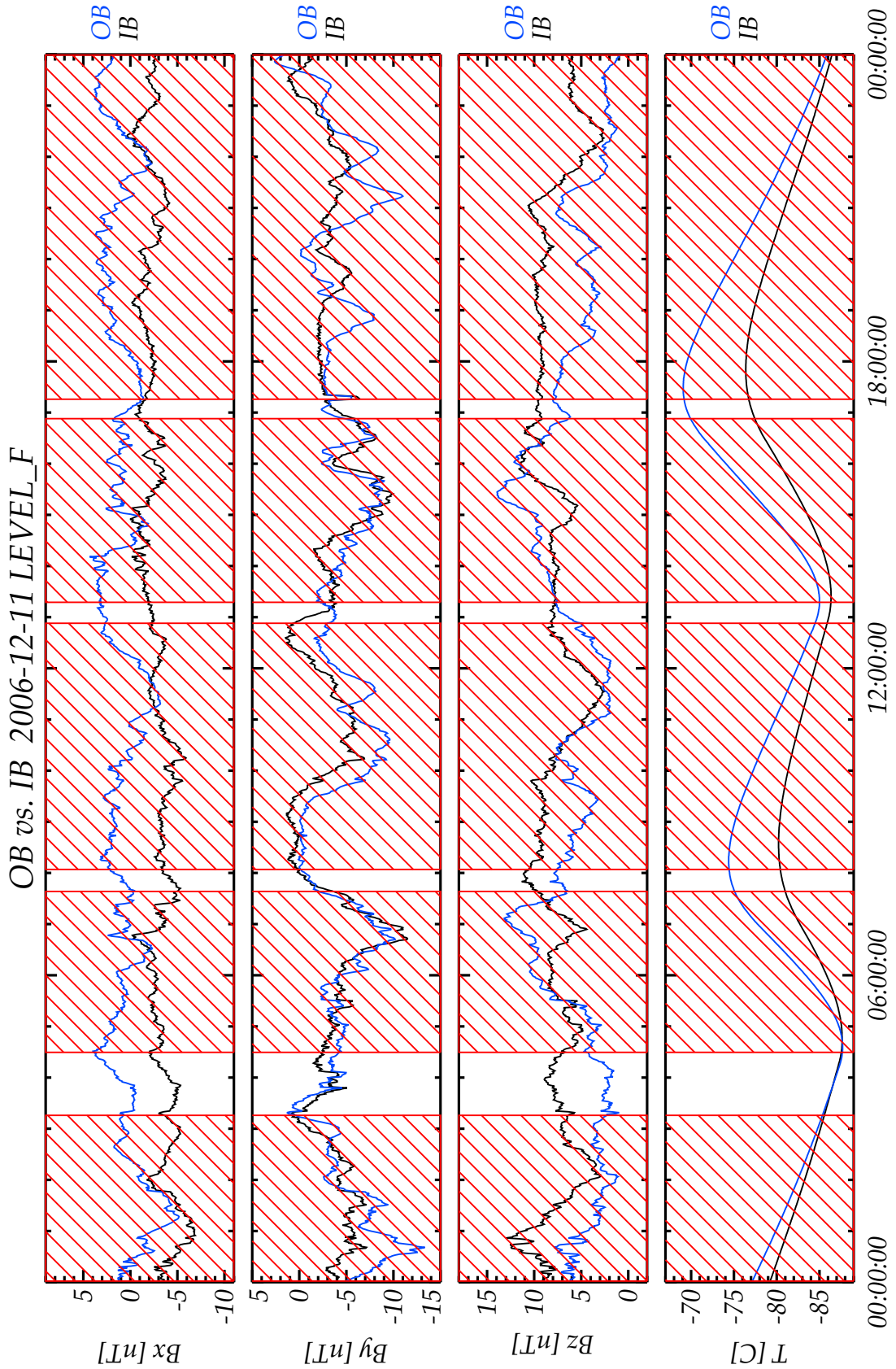


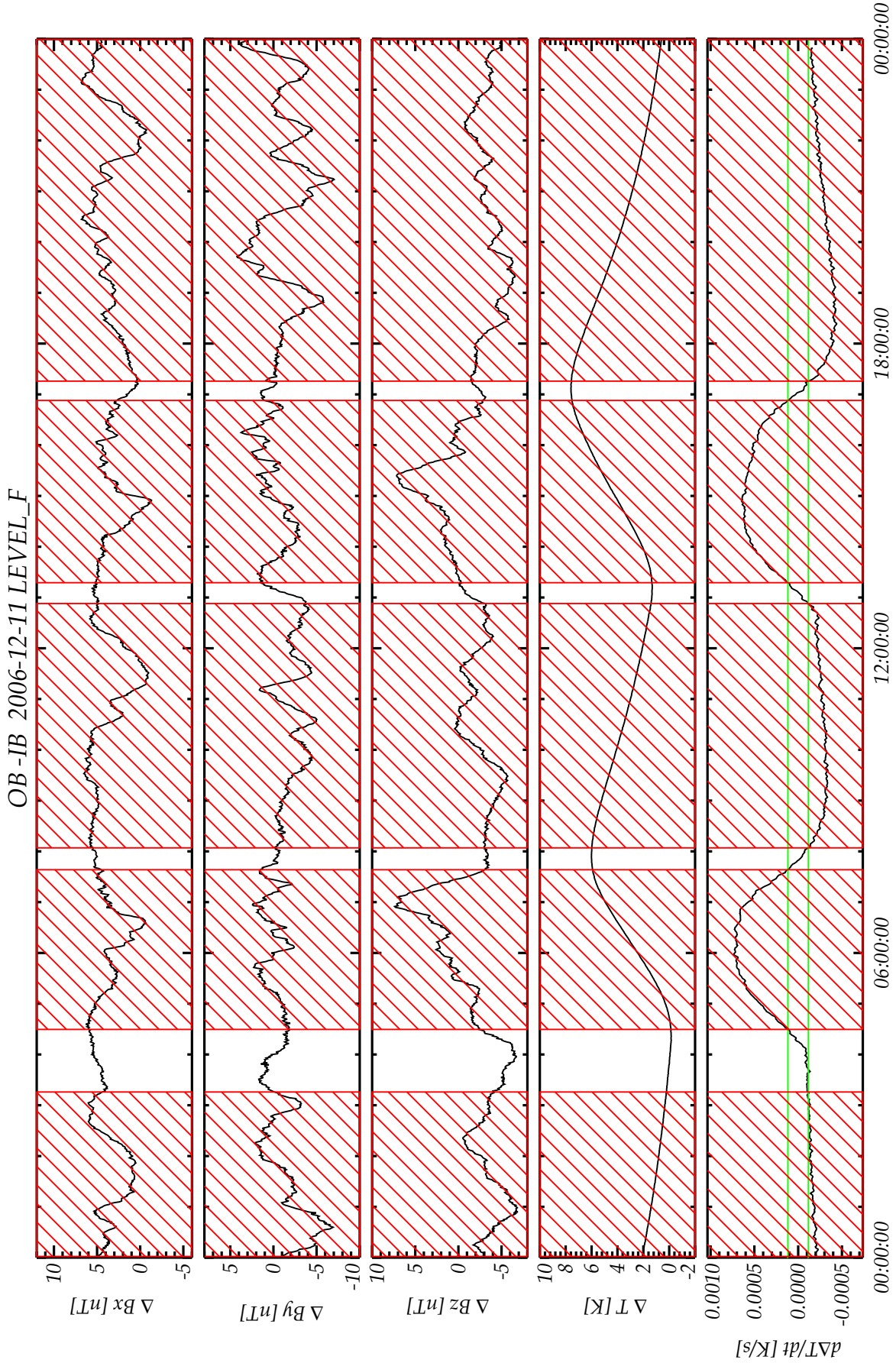


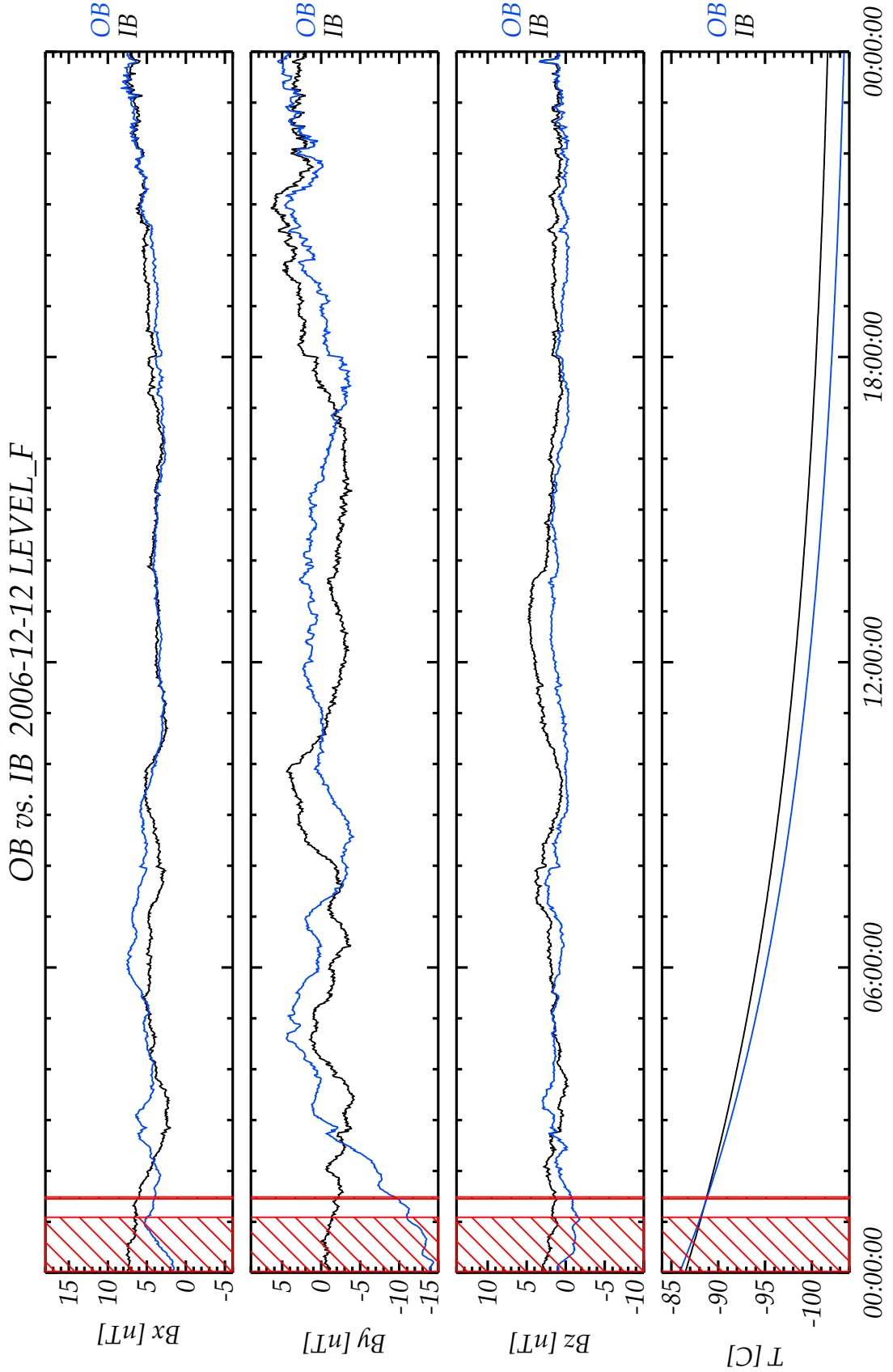
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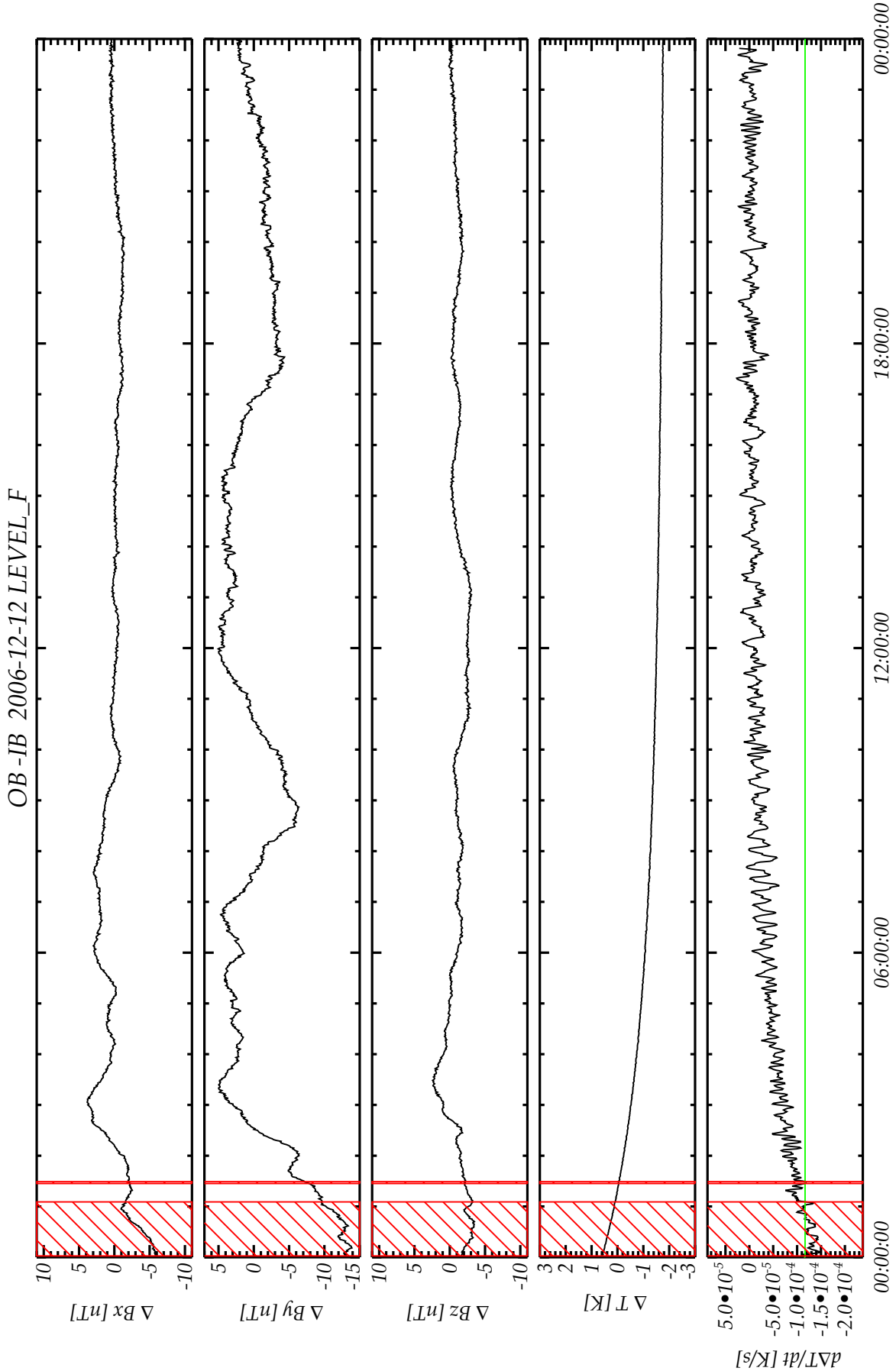


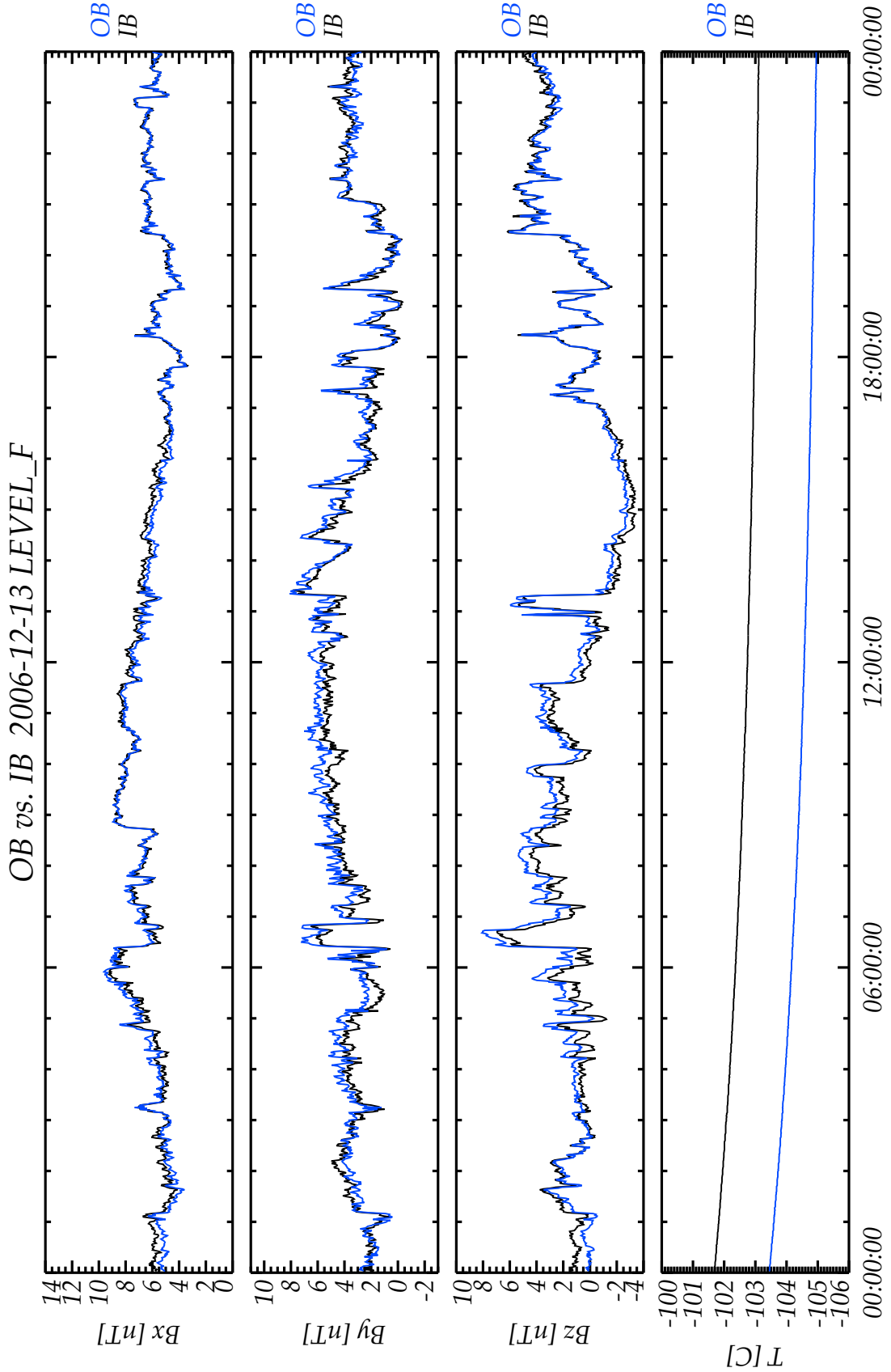




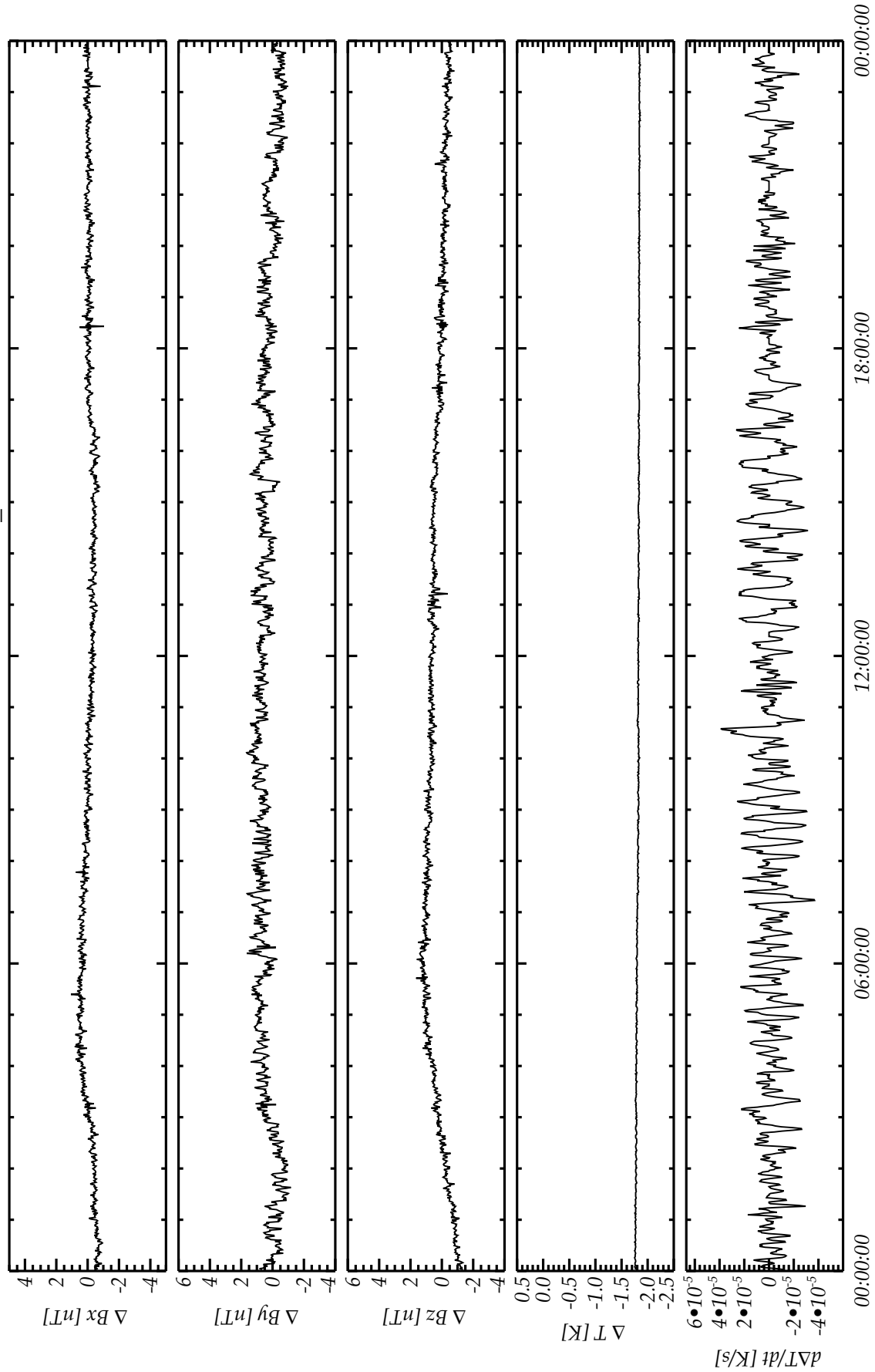


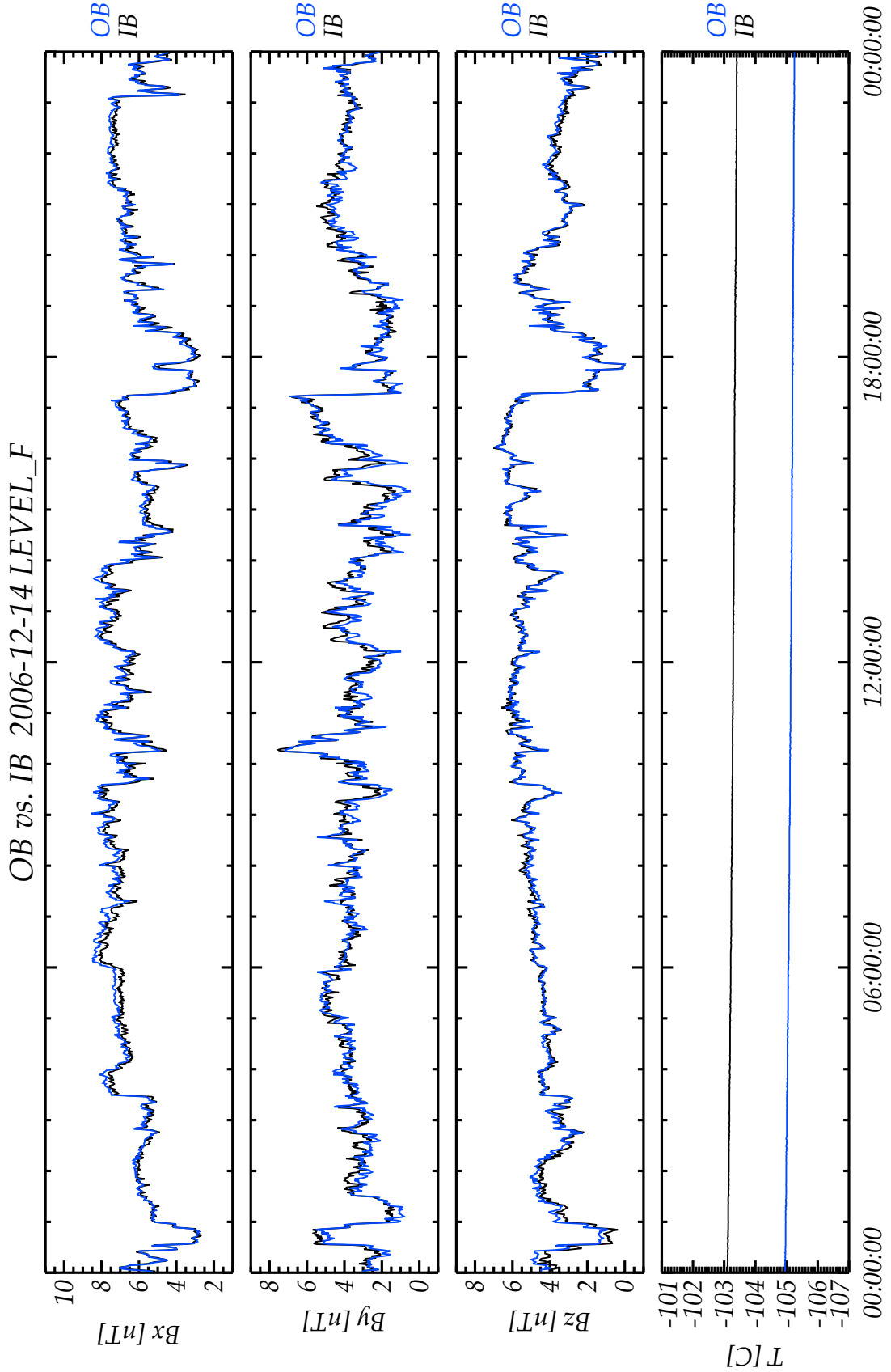




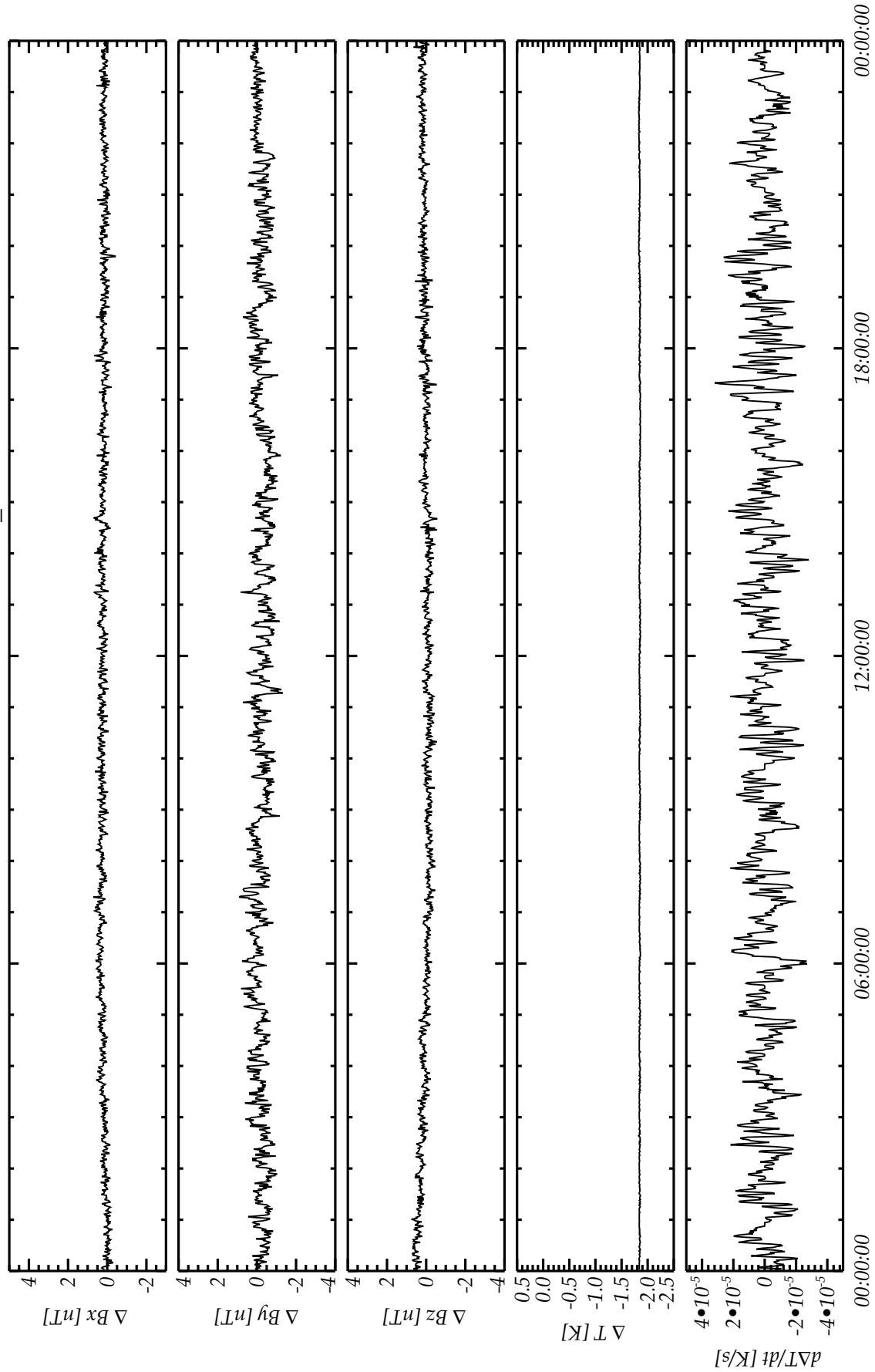


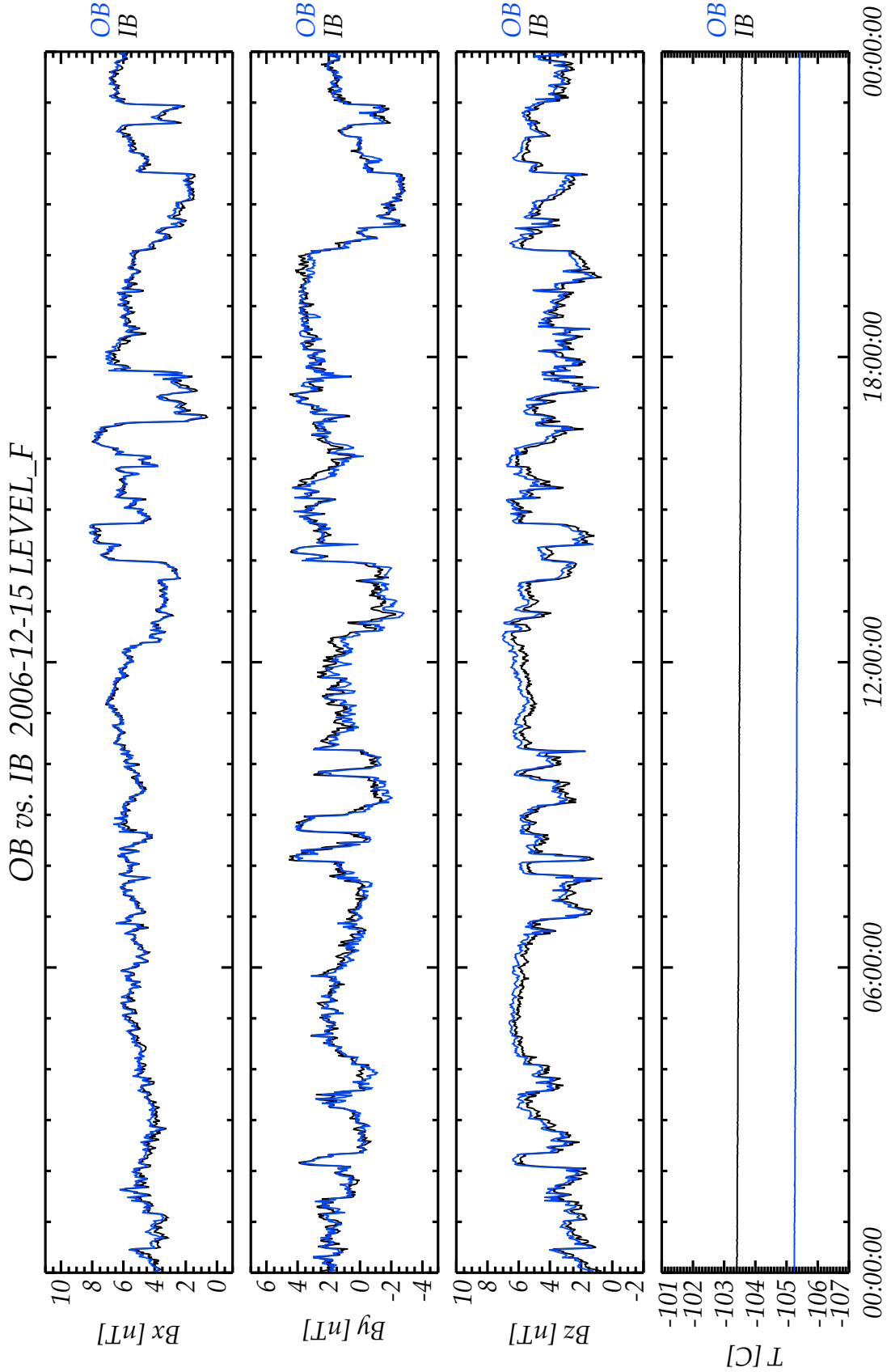
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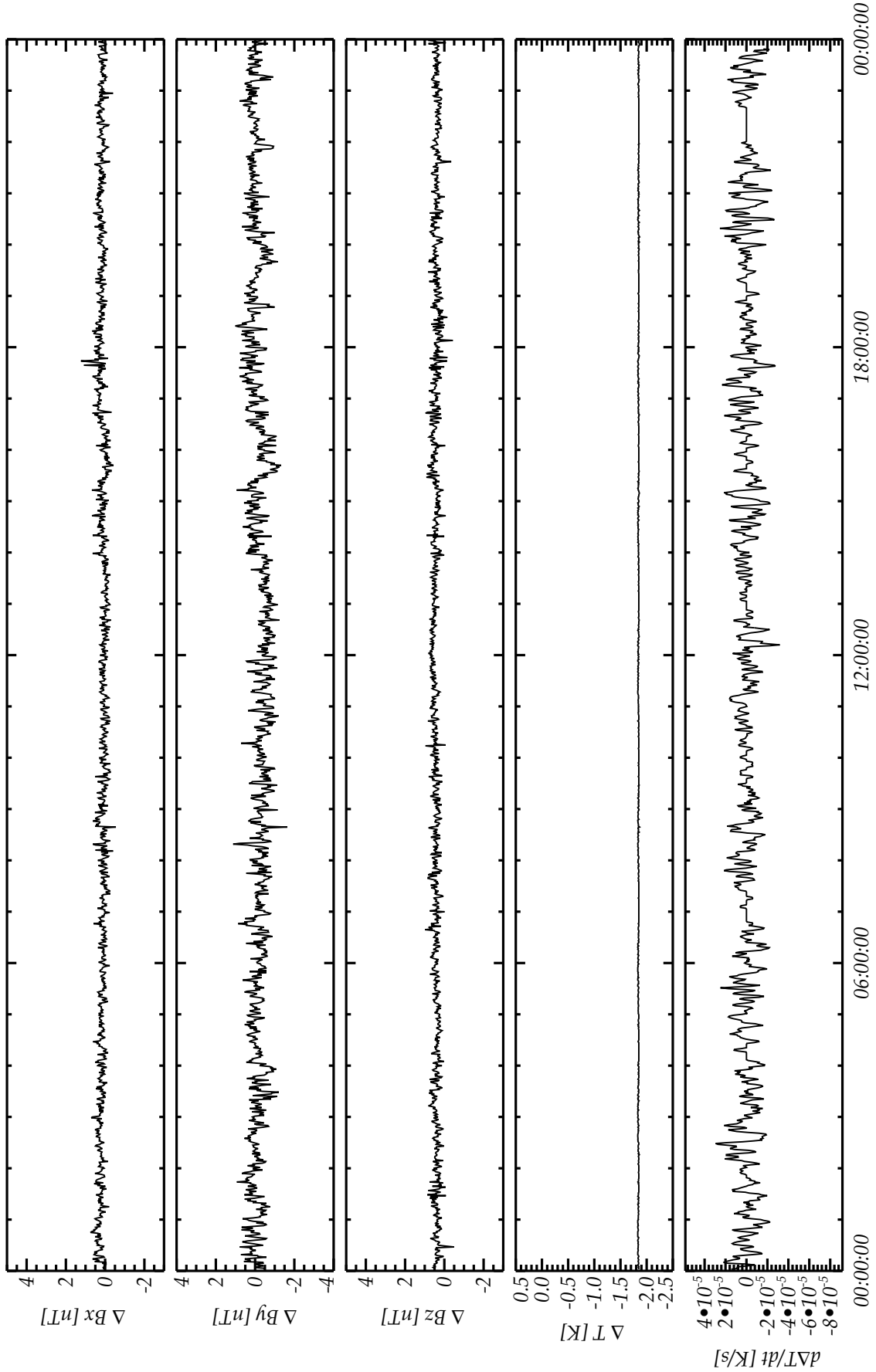


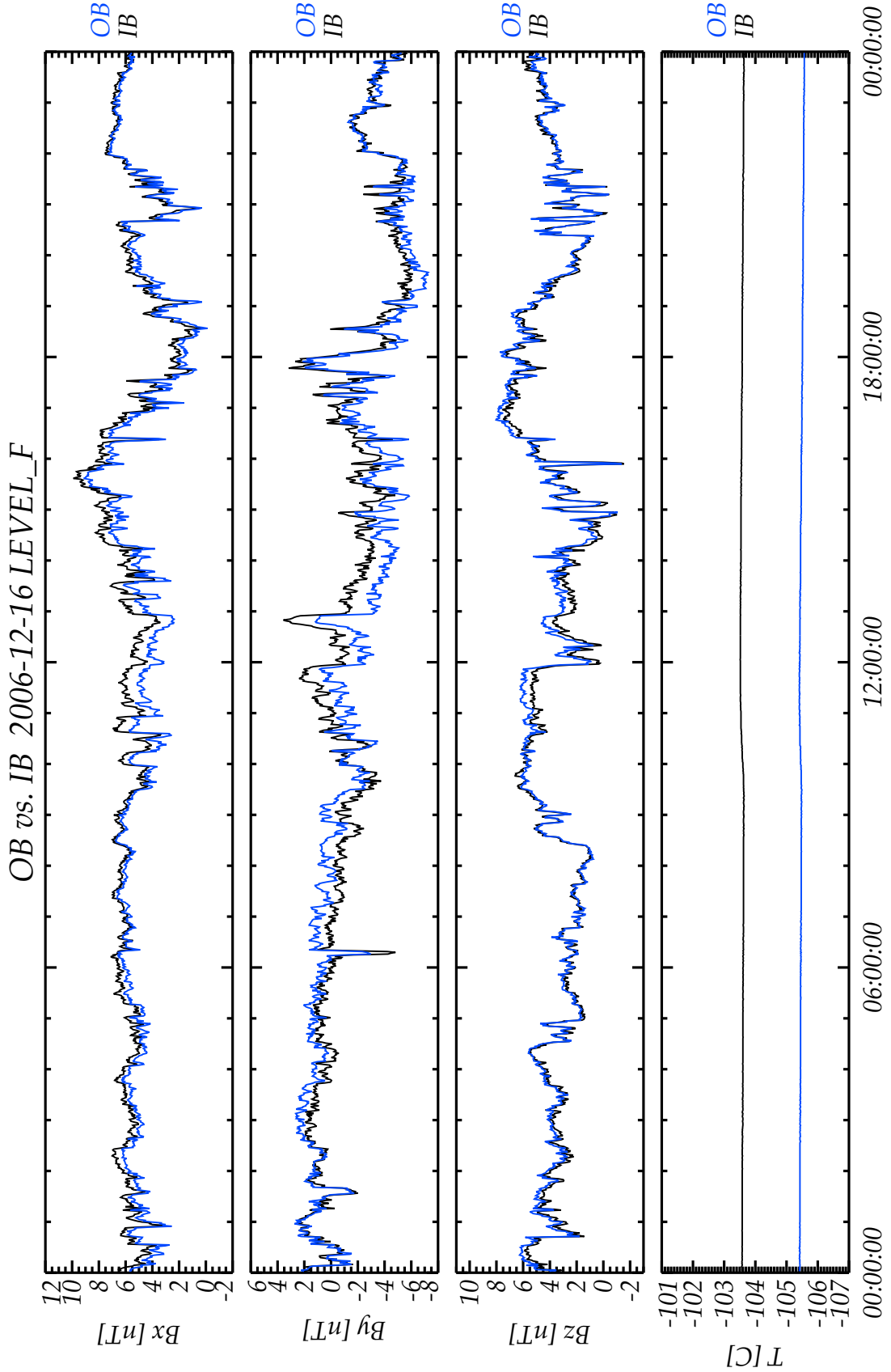
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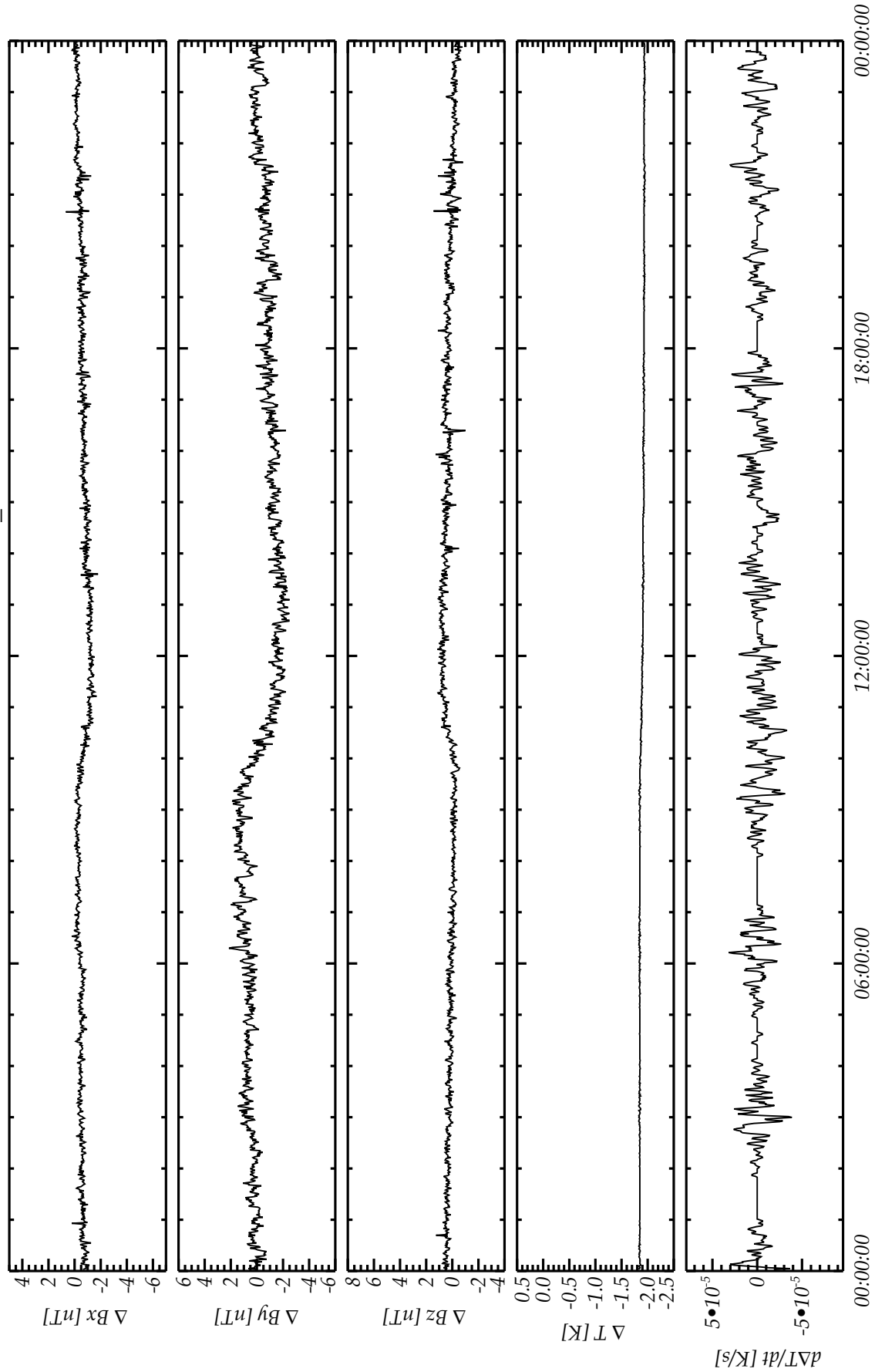


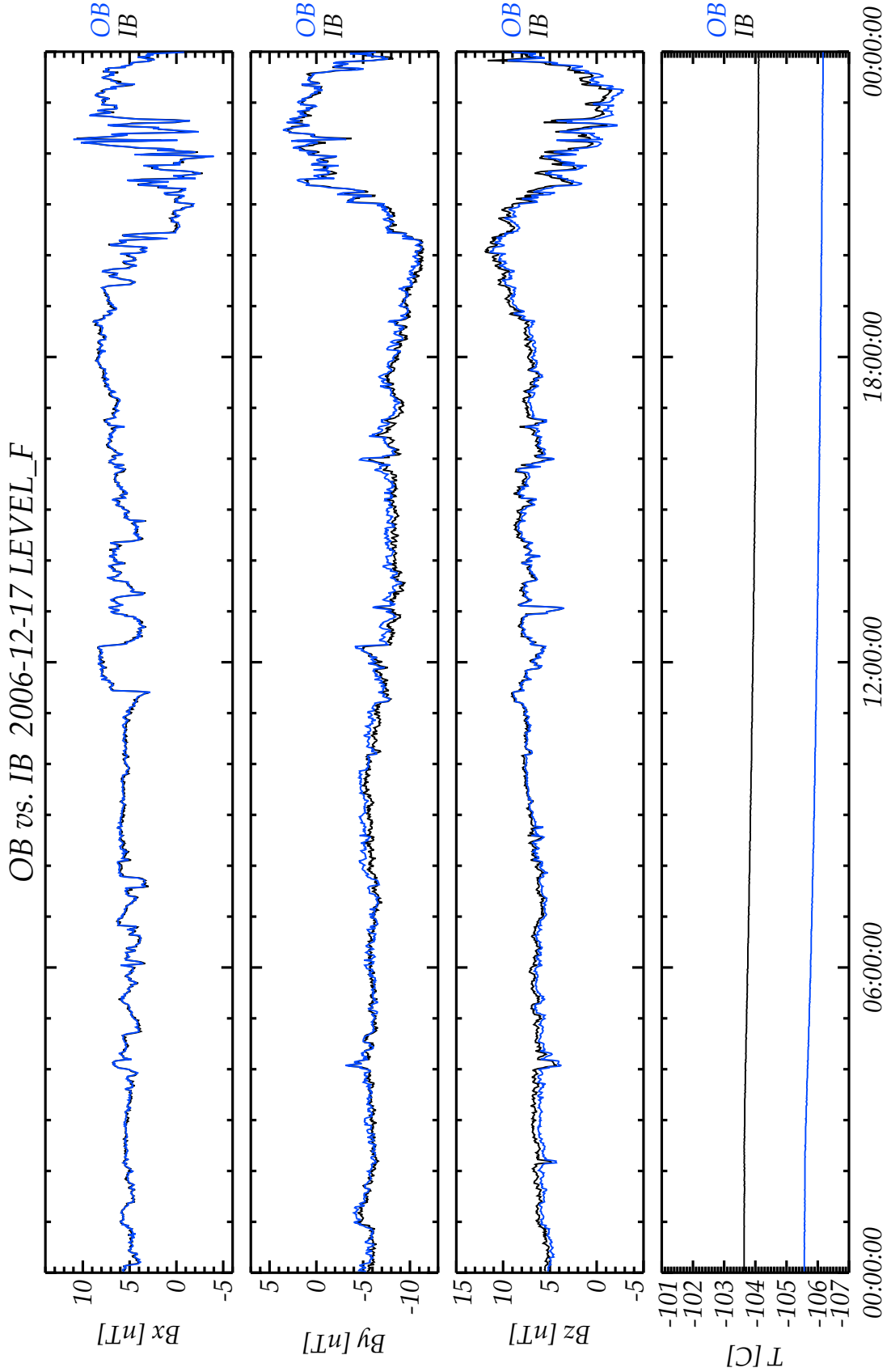
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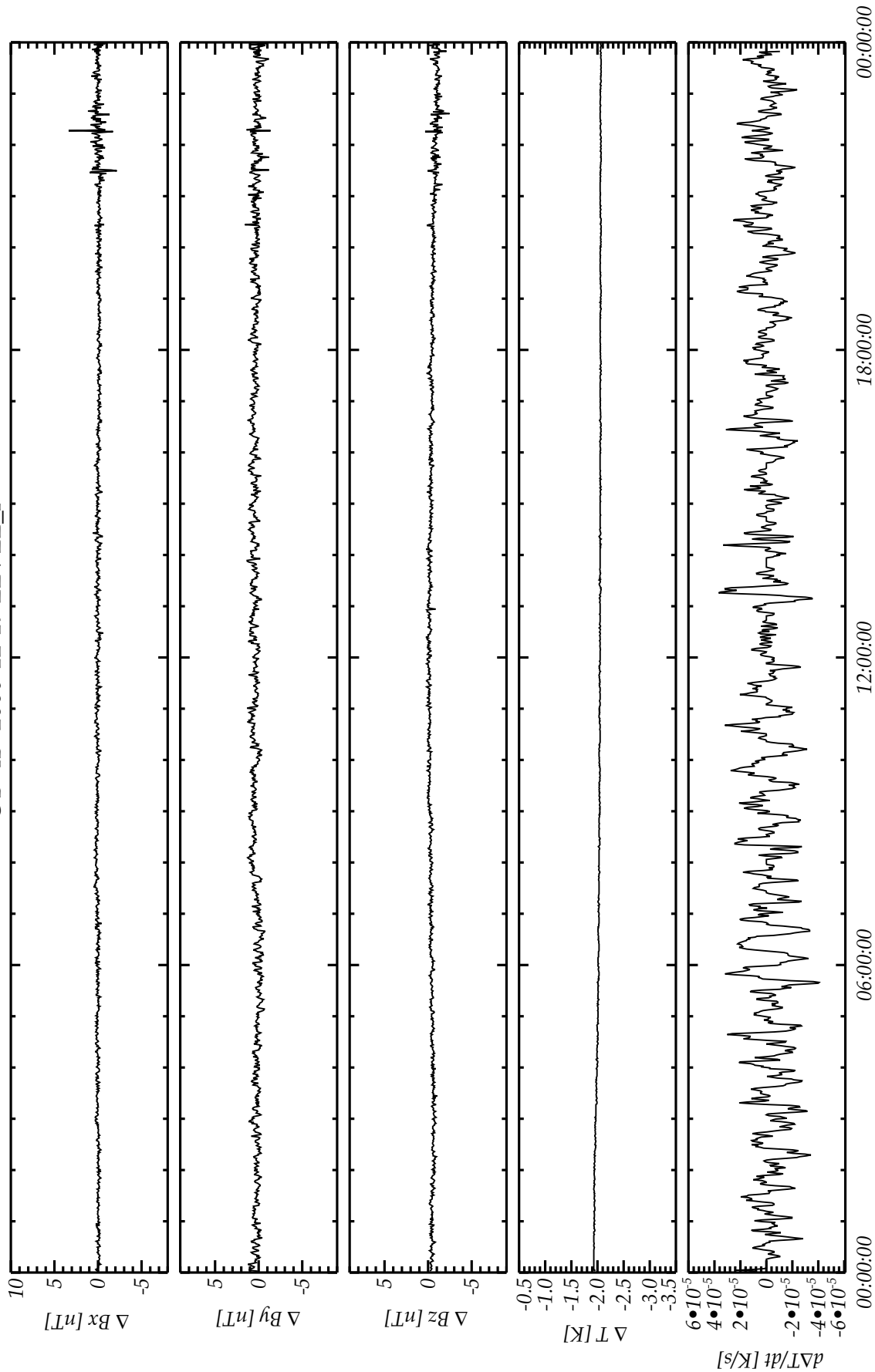


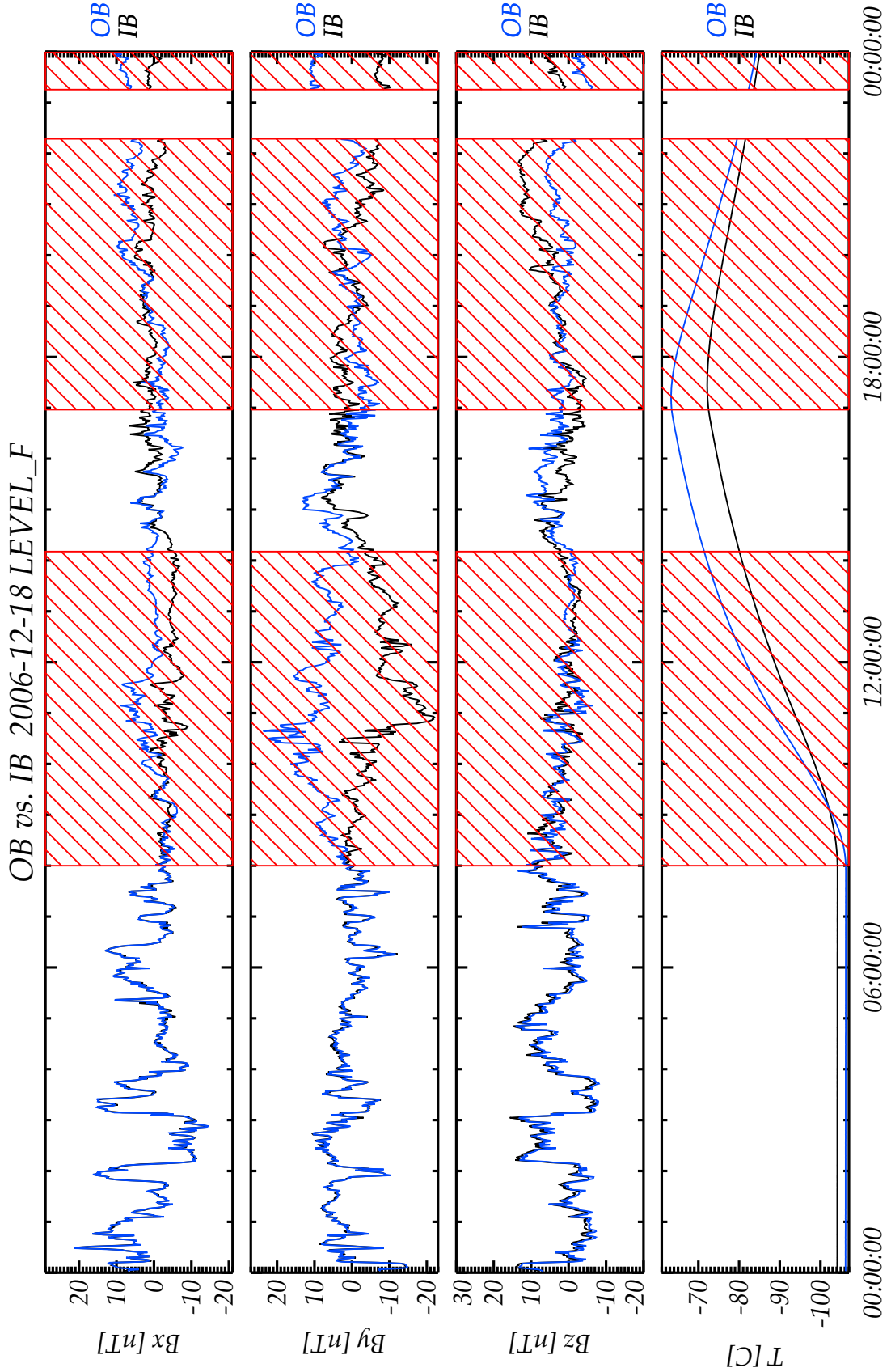
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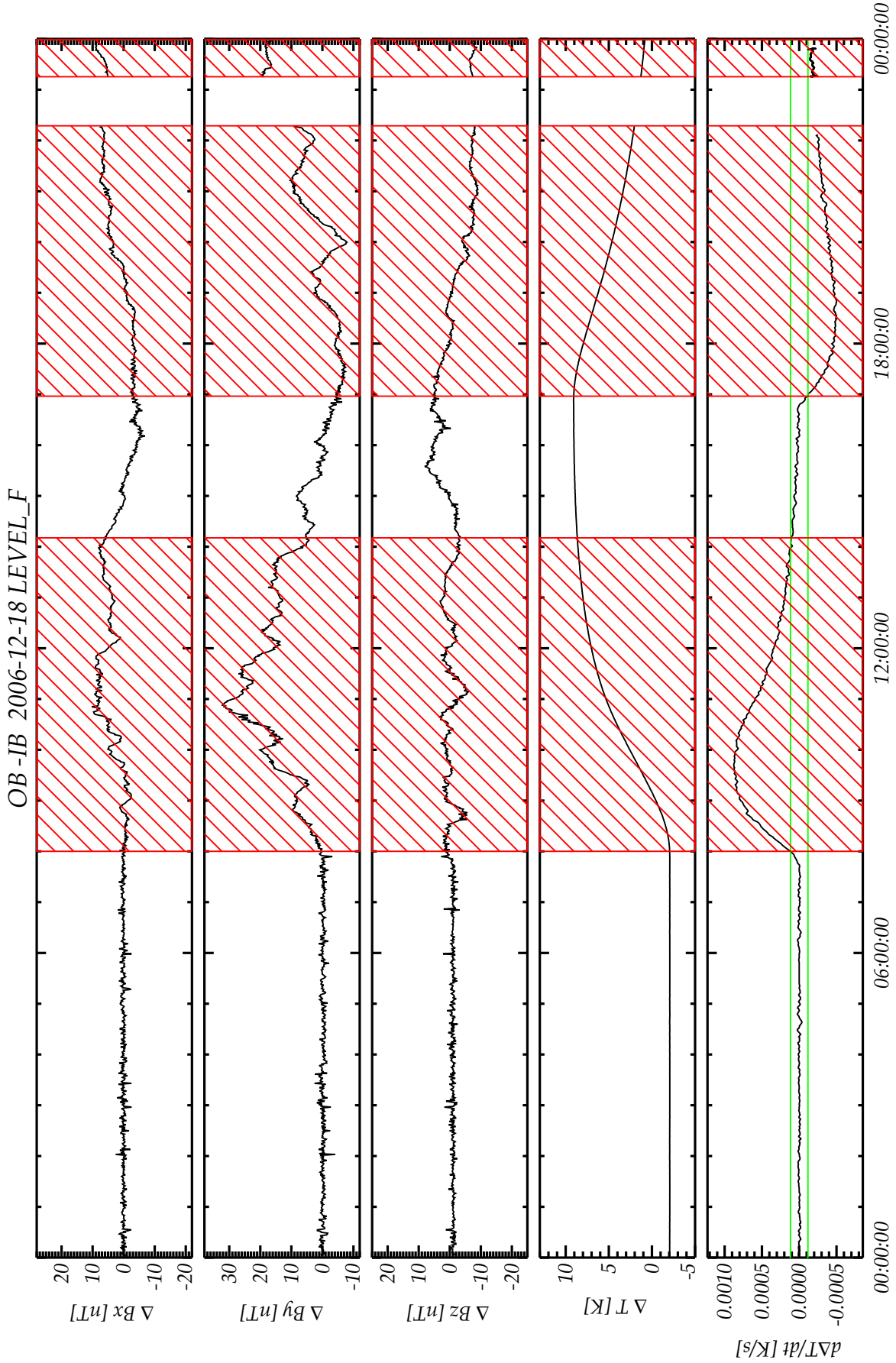


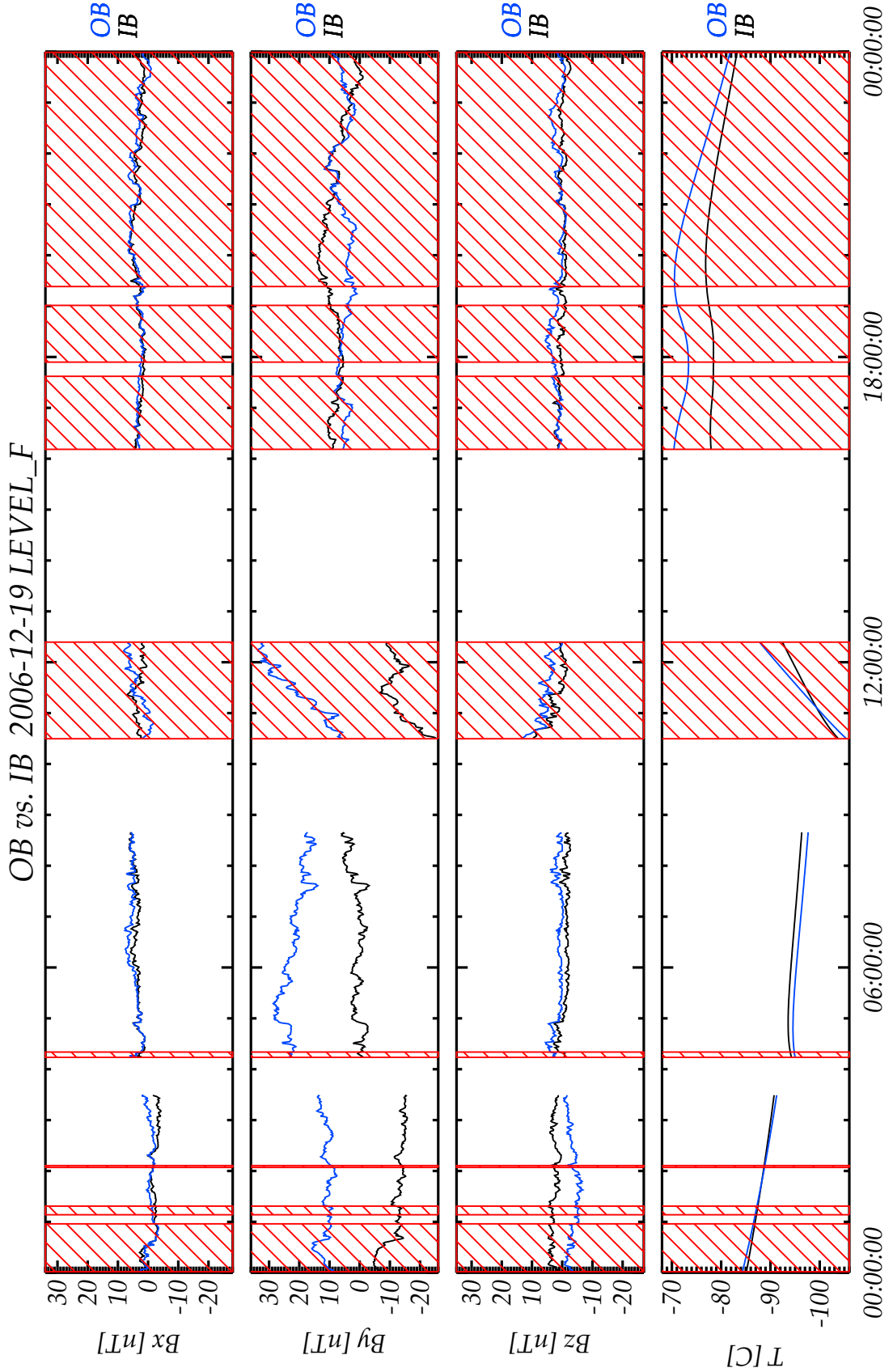


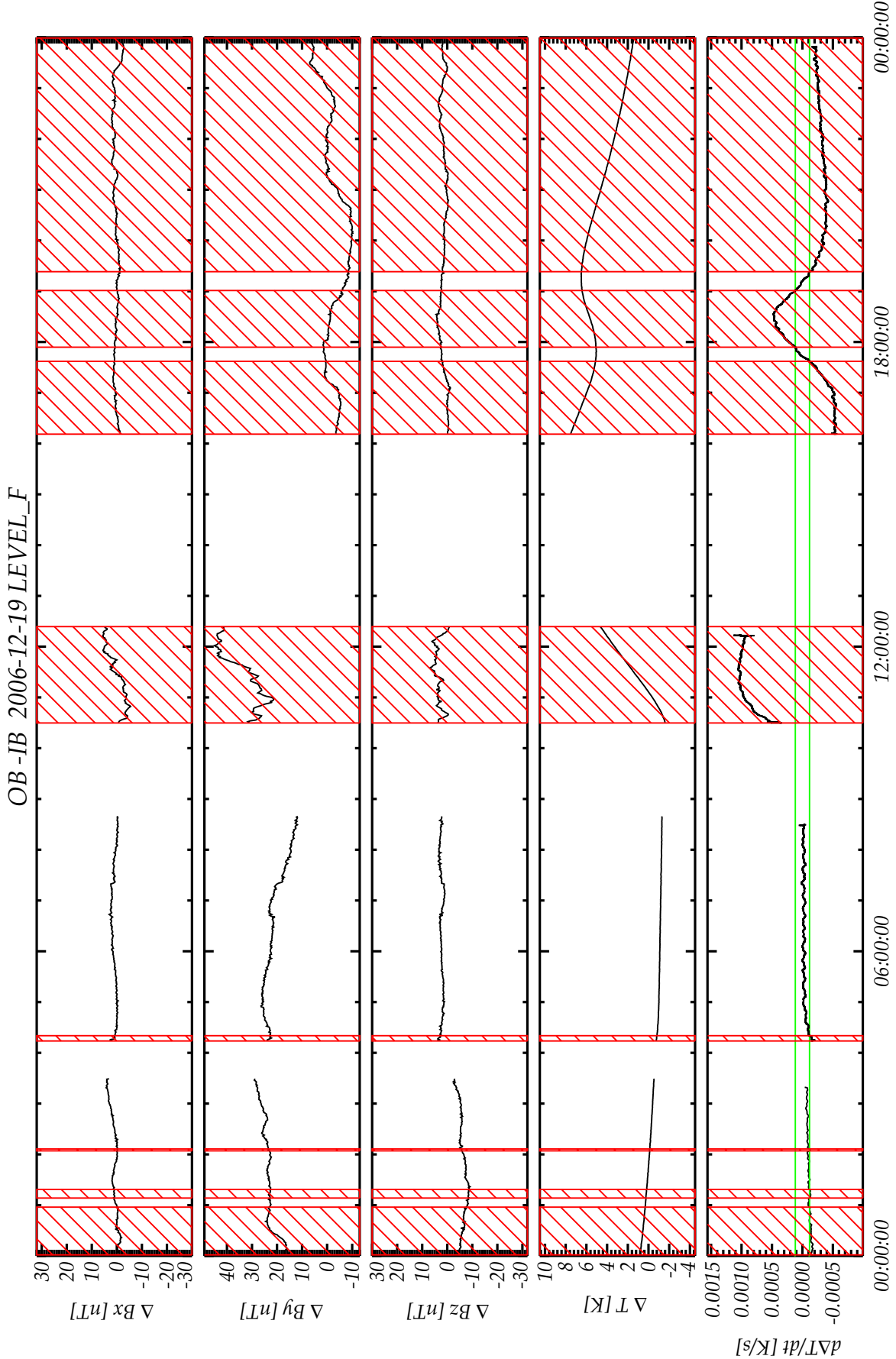
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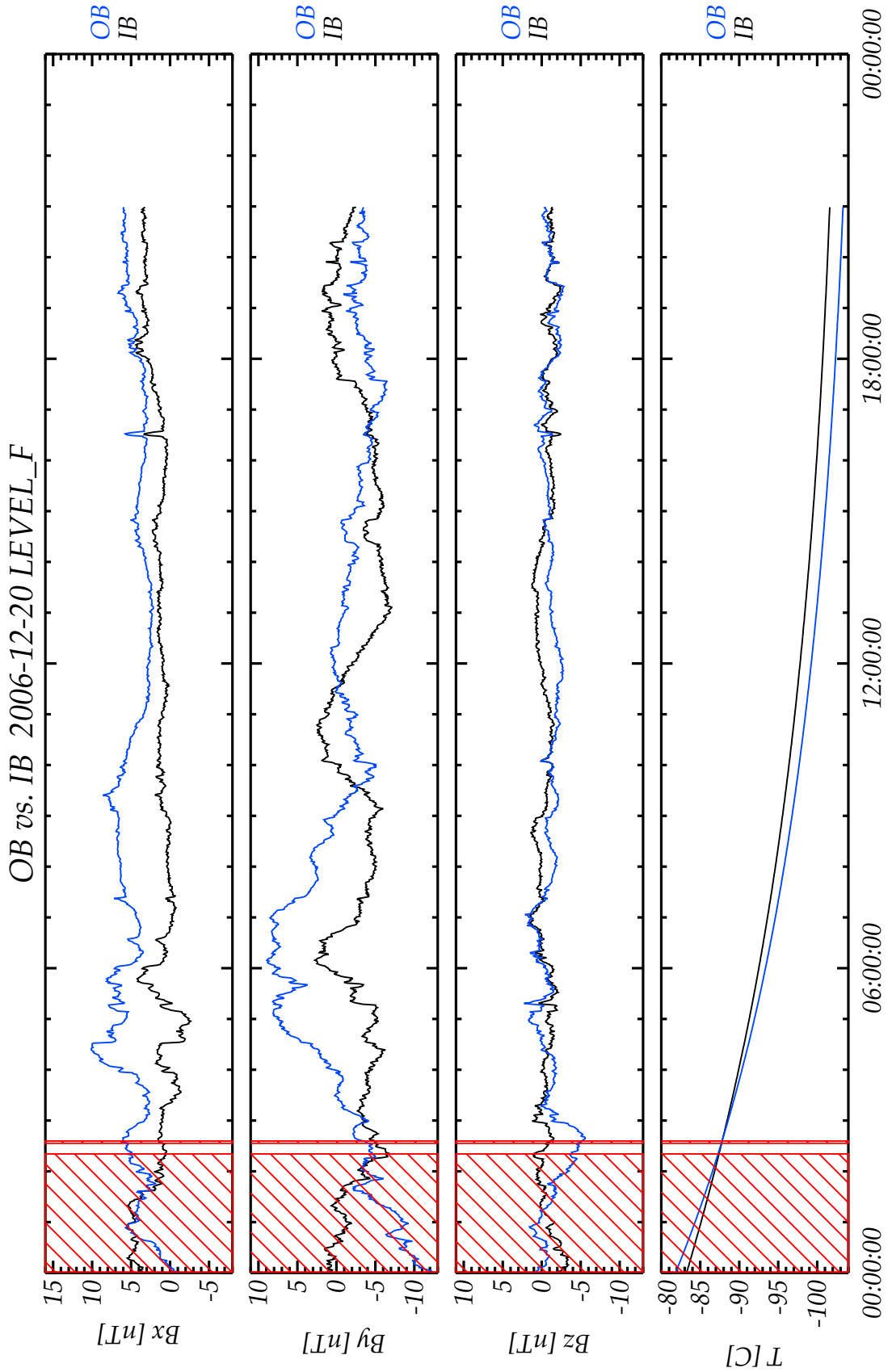


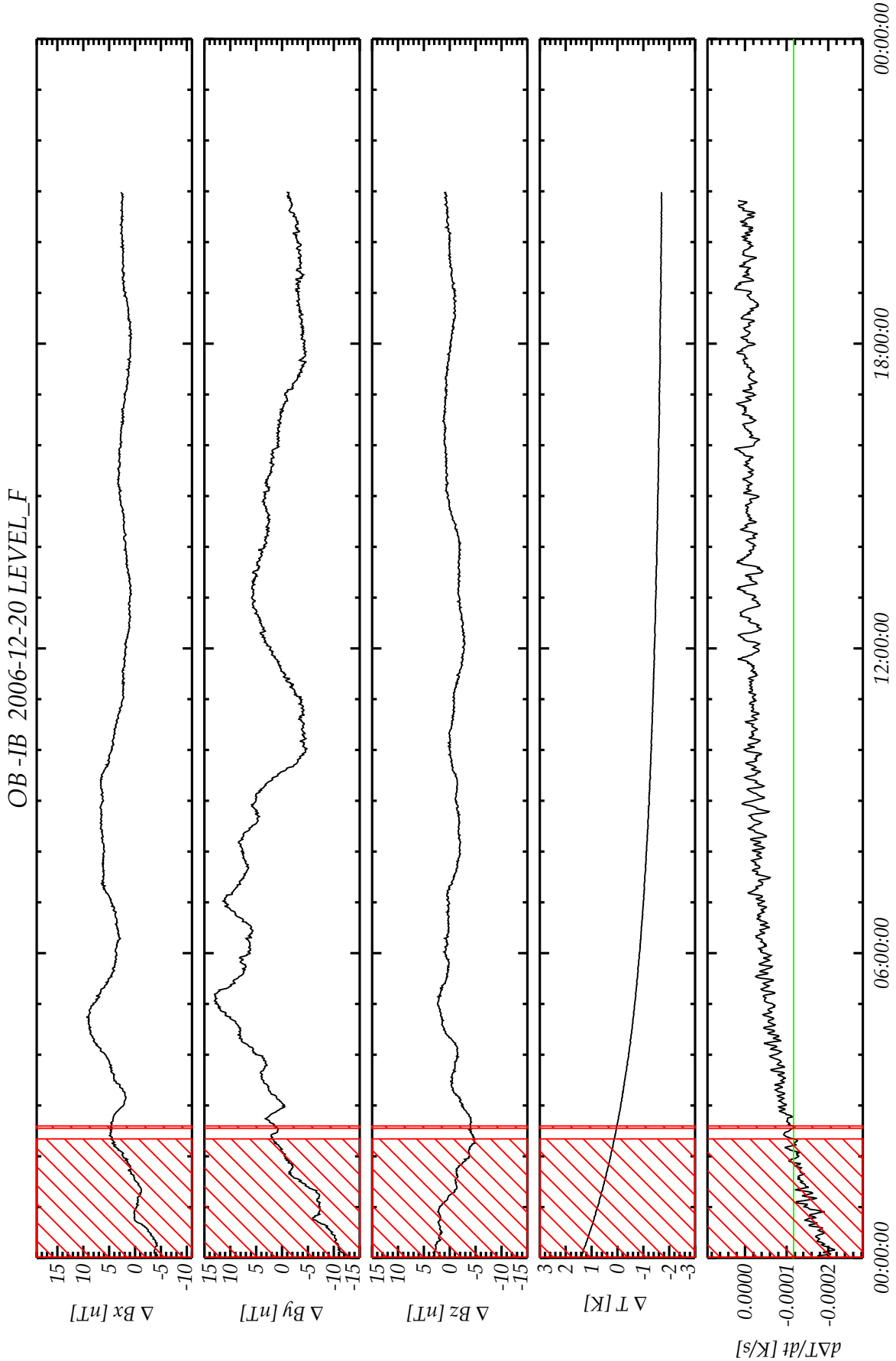


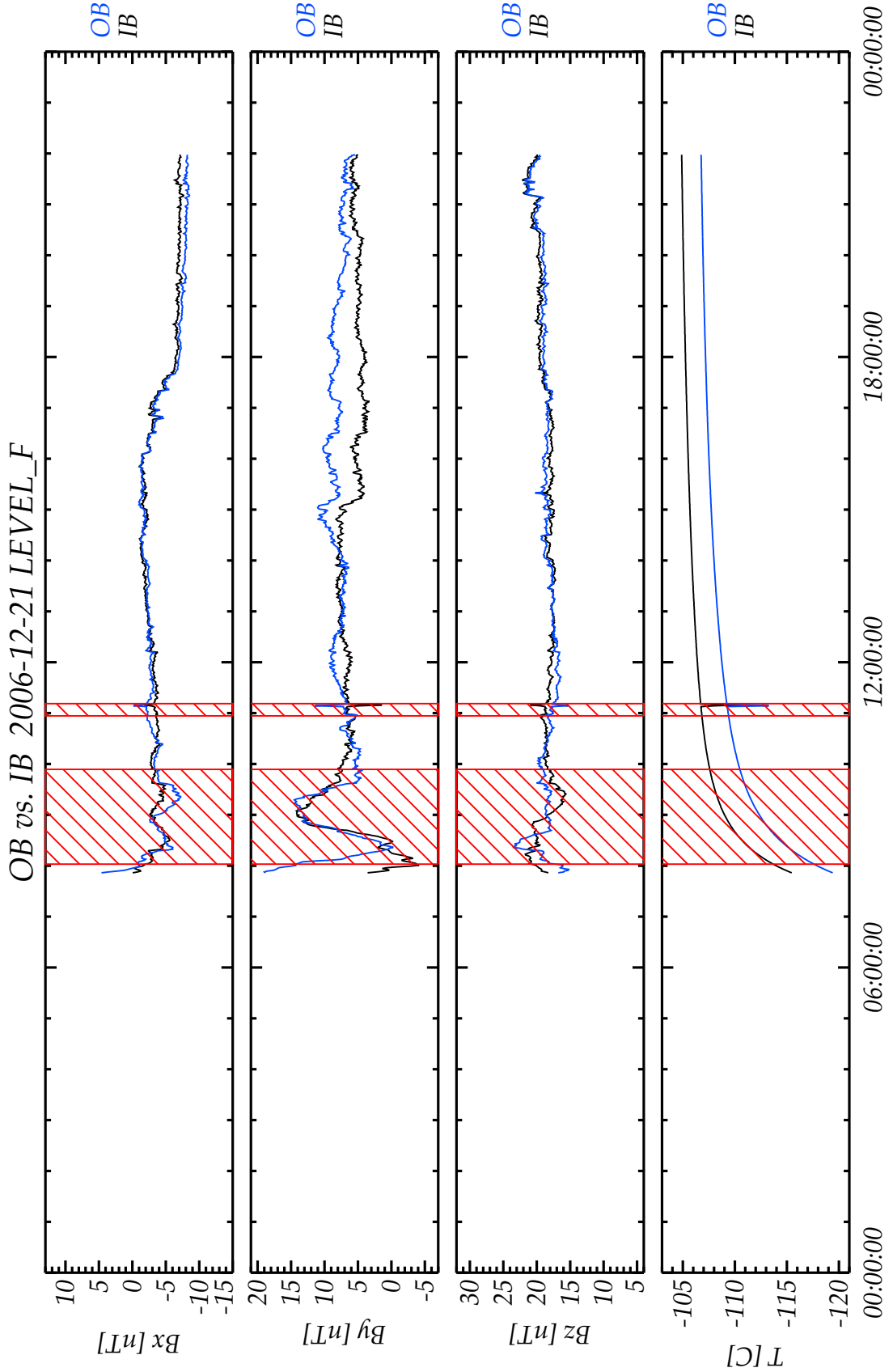


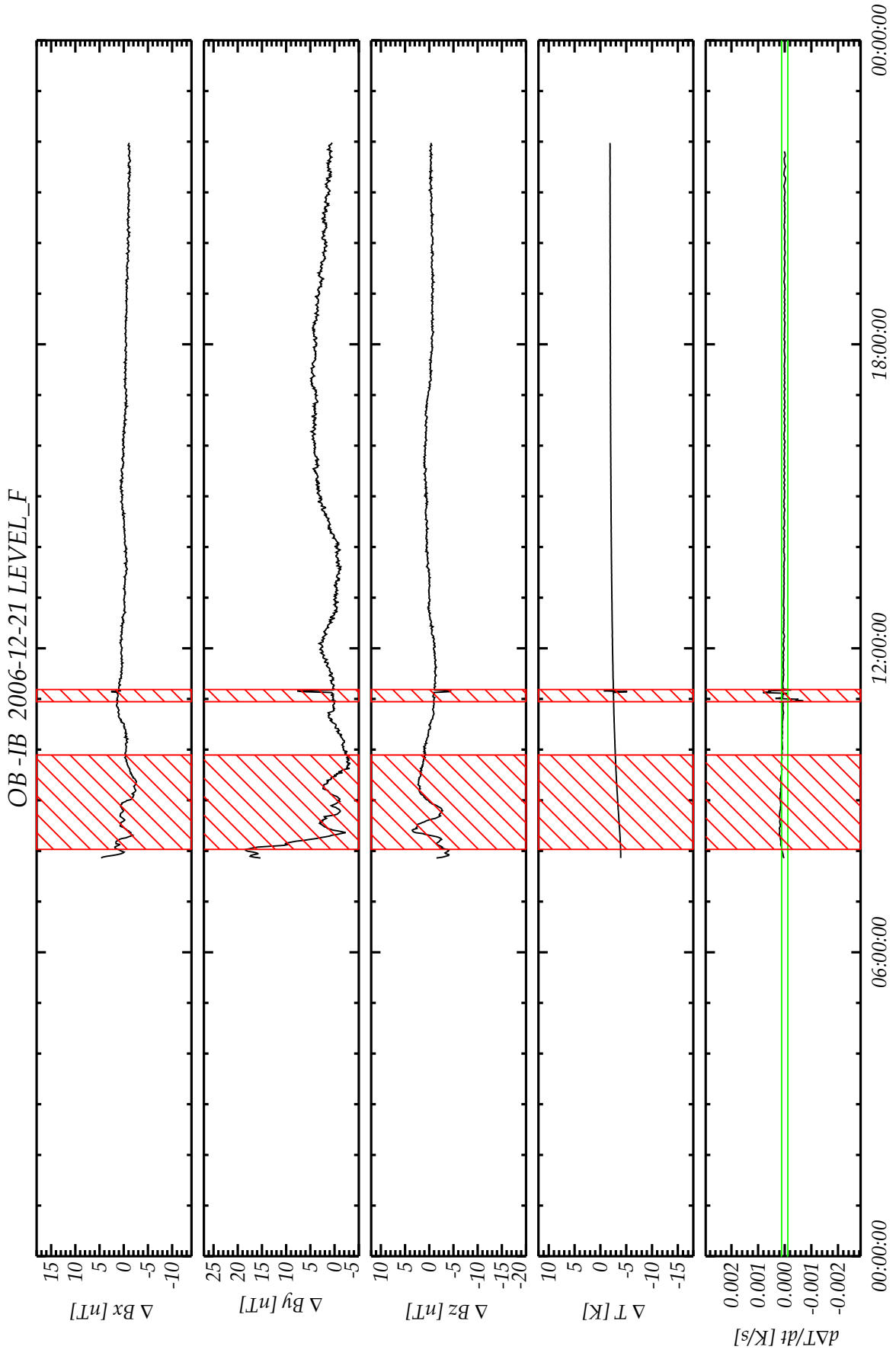












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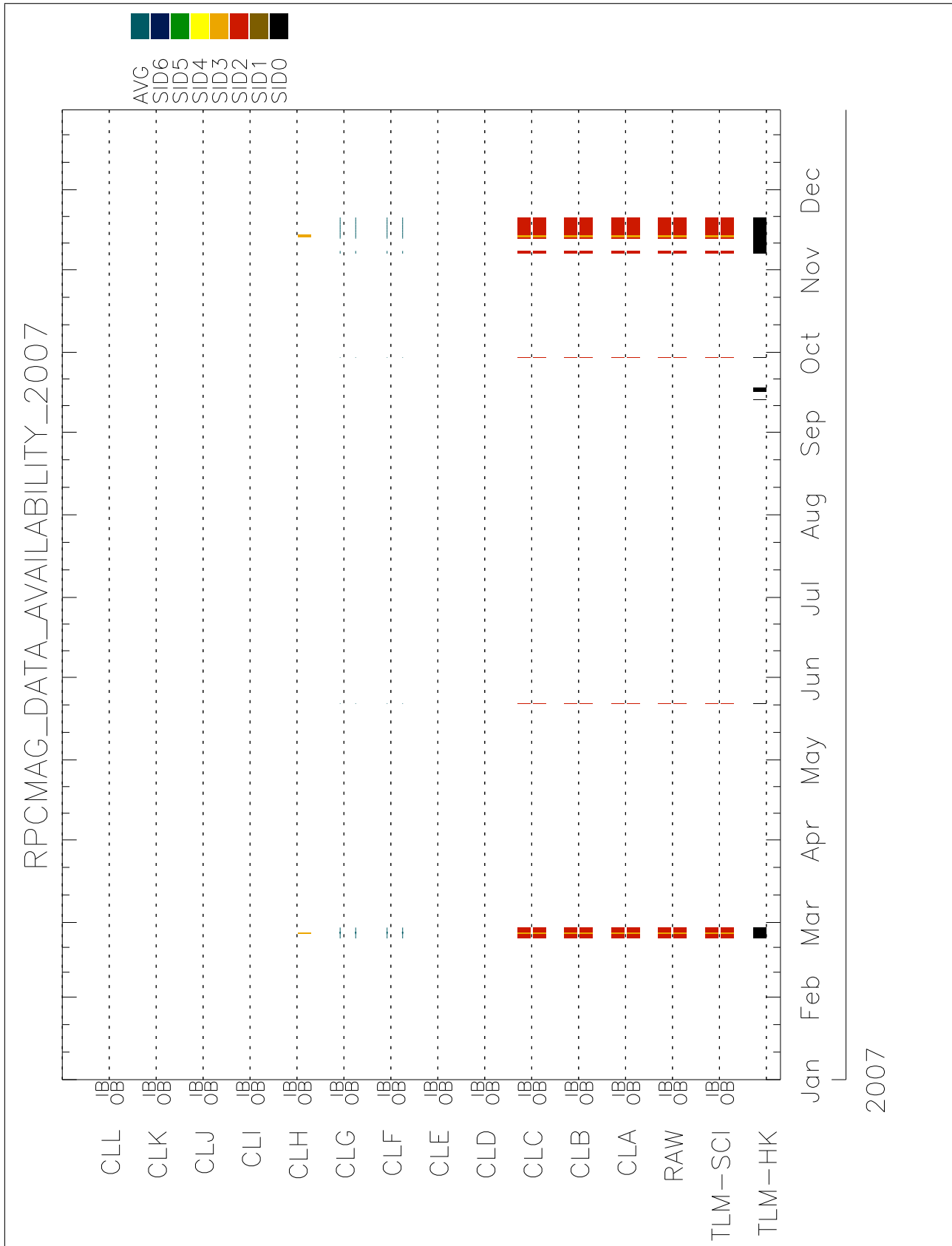


Figure 5: Overview 2007

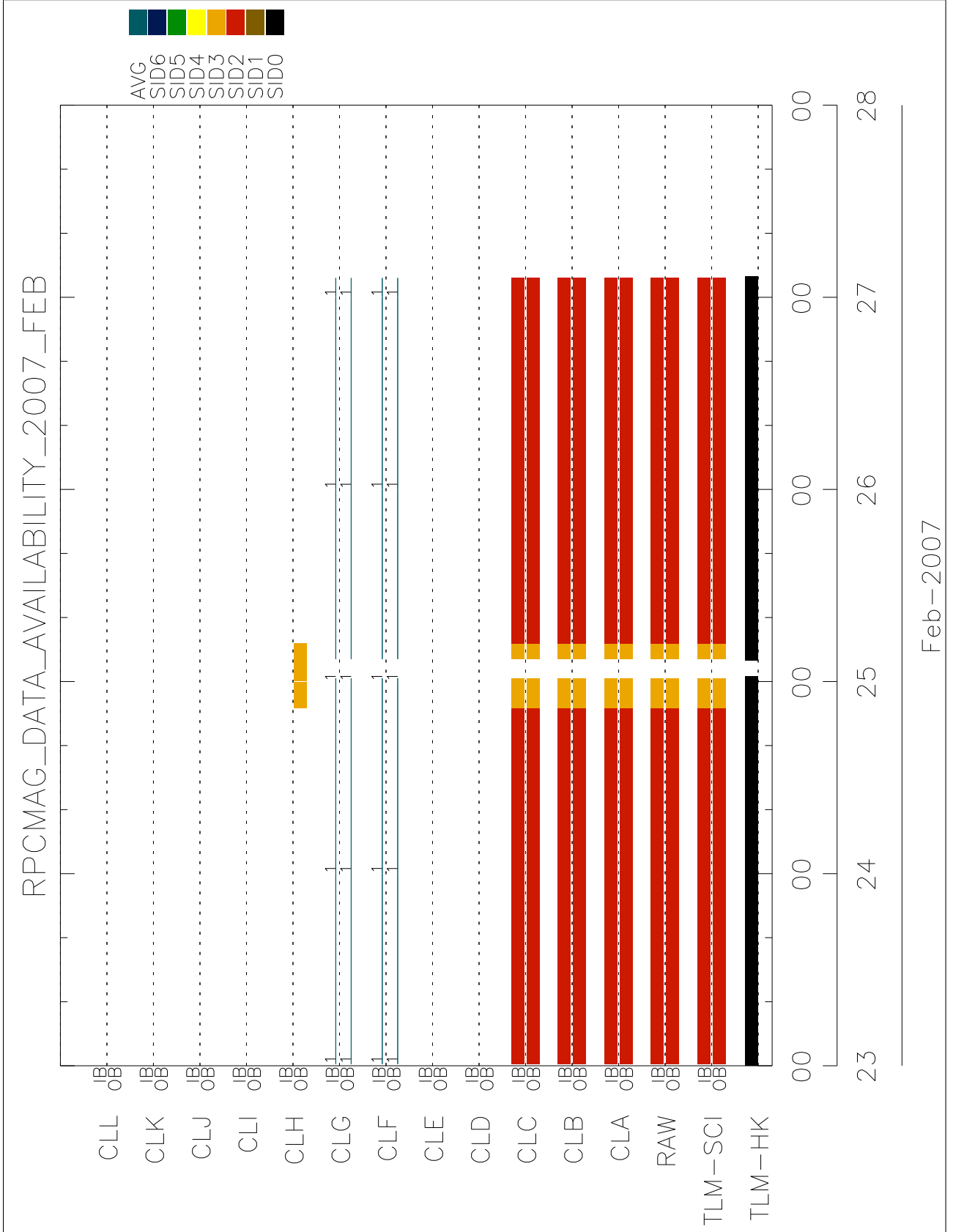


Figure 6: Overview February 2007

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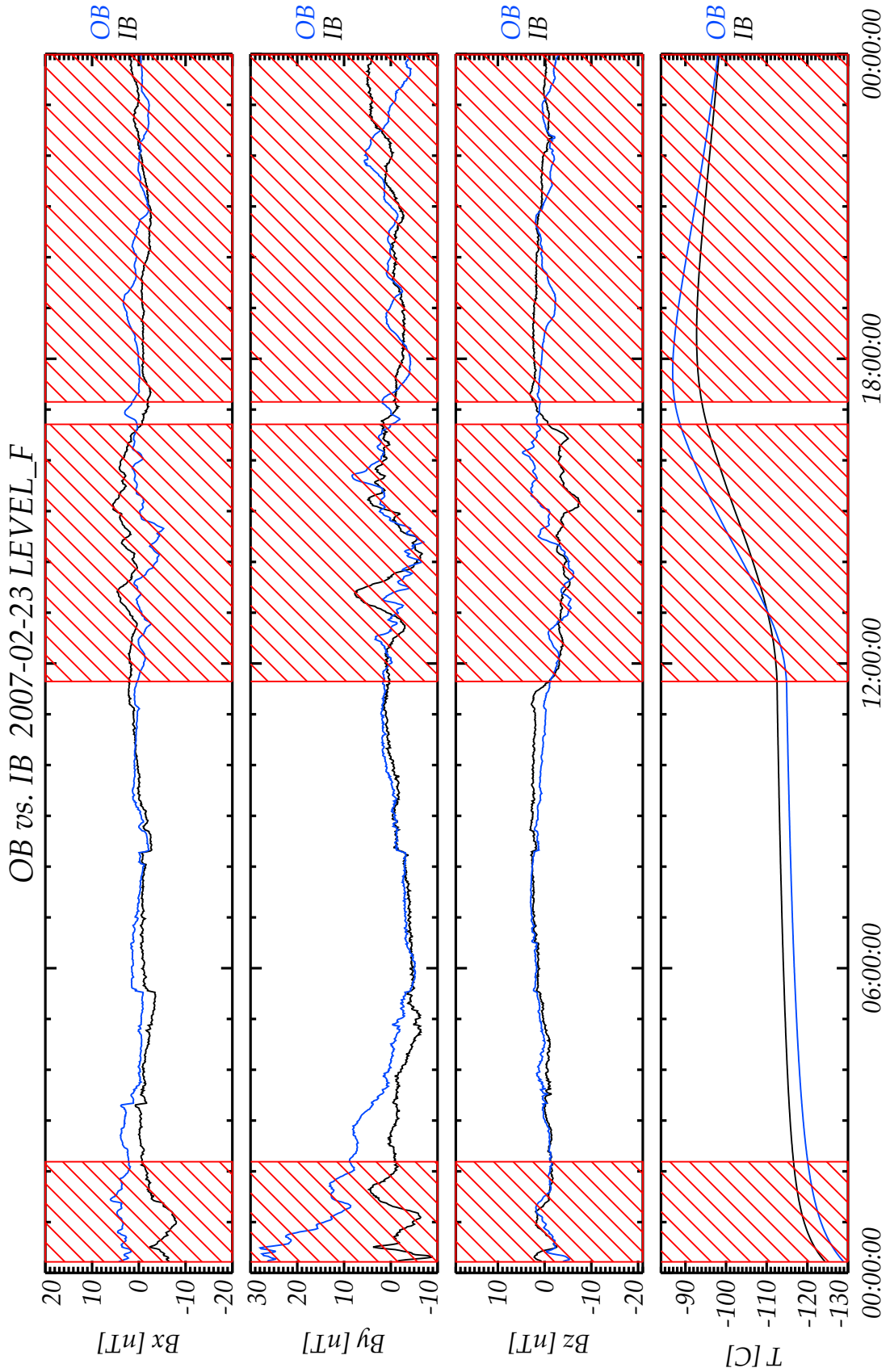
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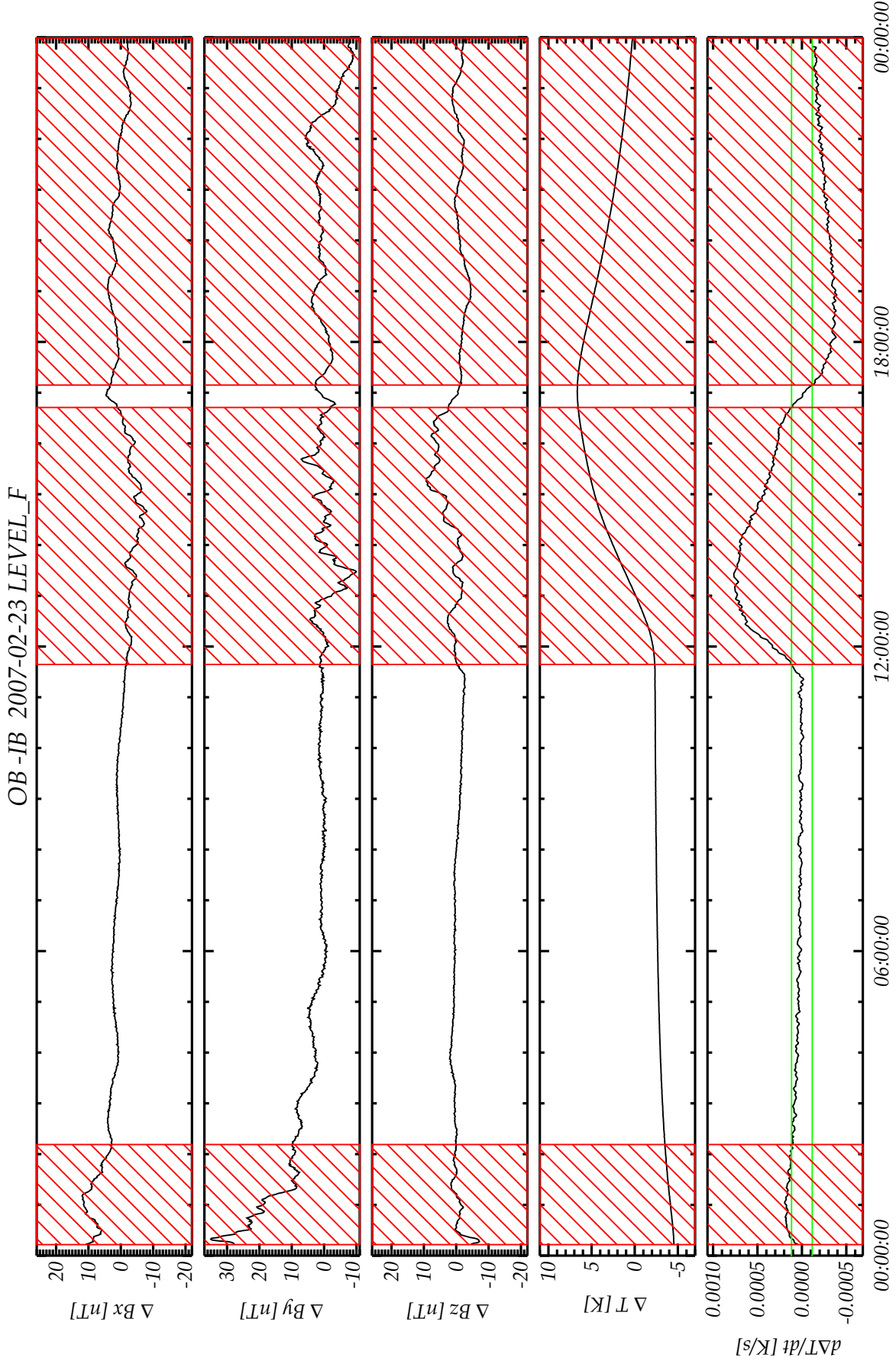
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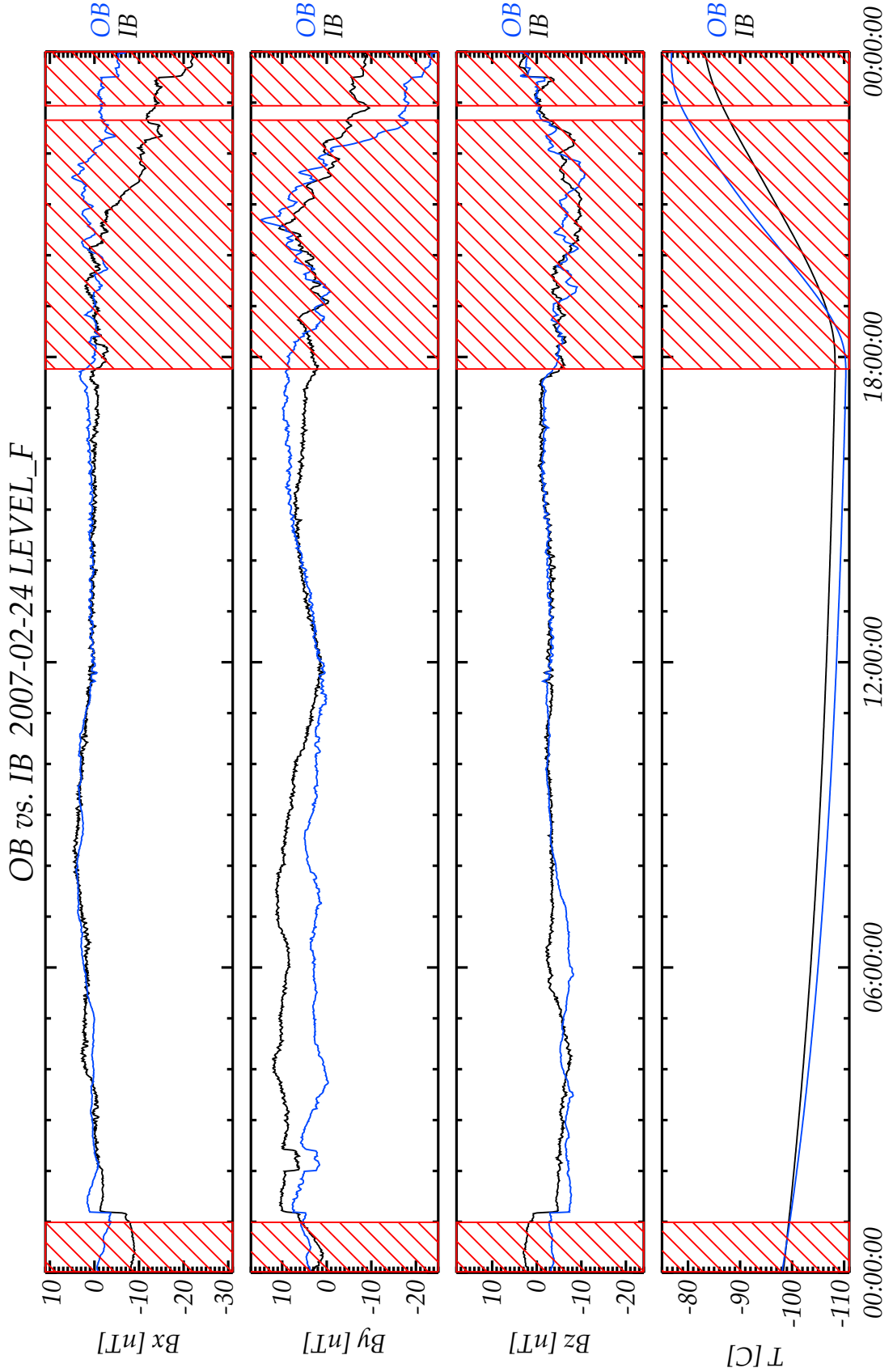
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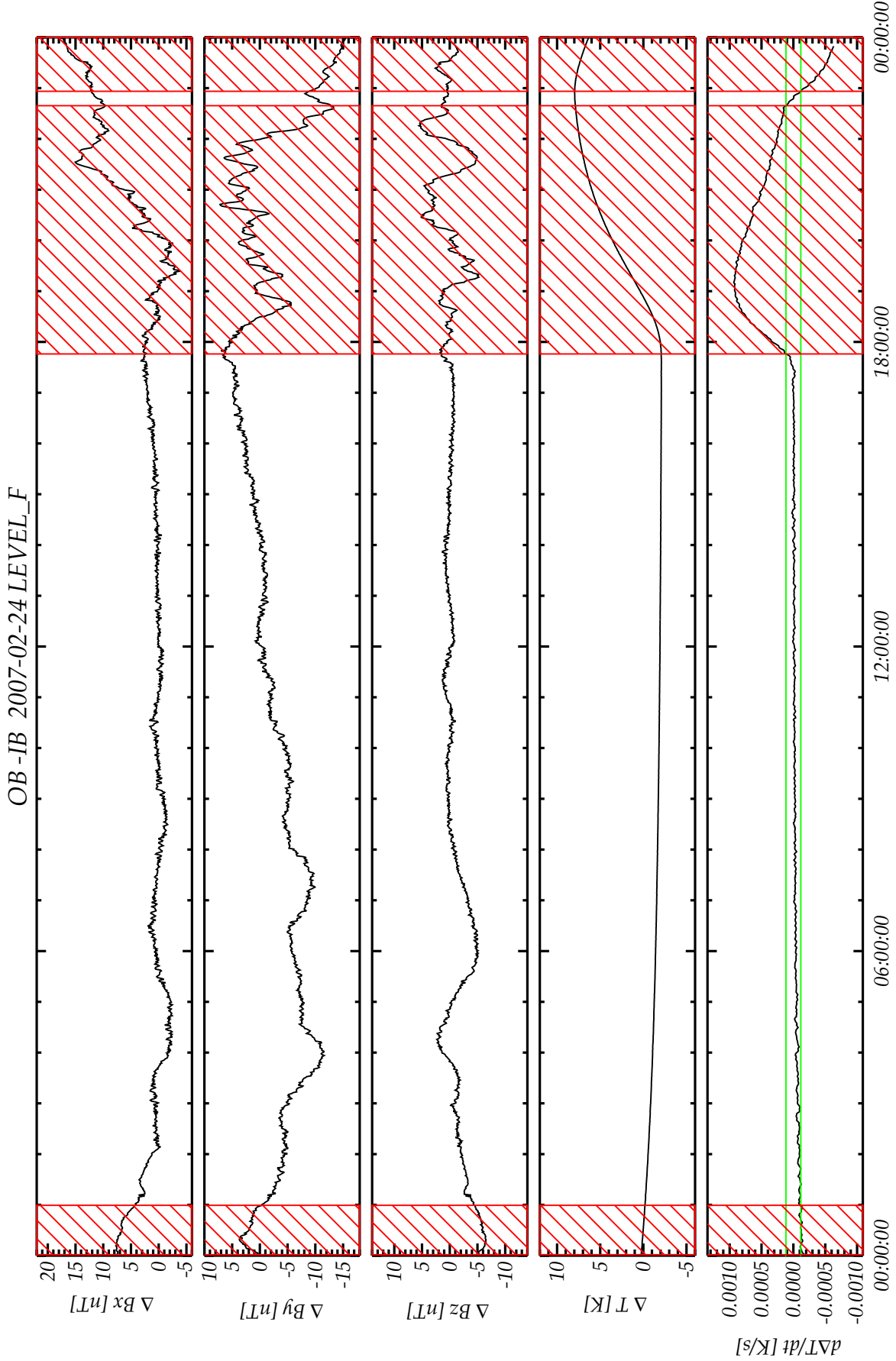
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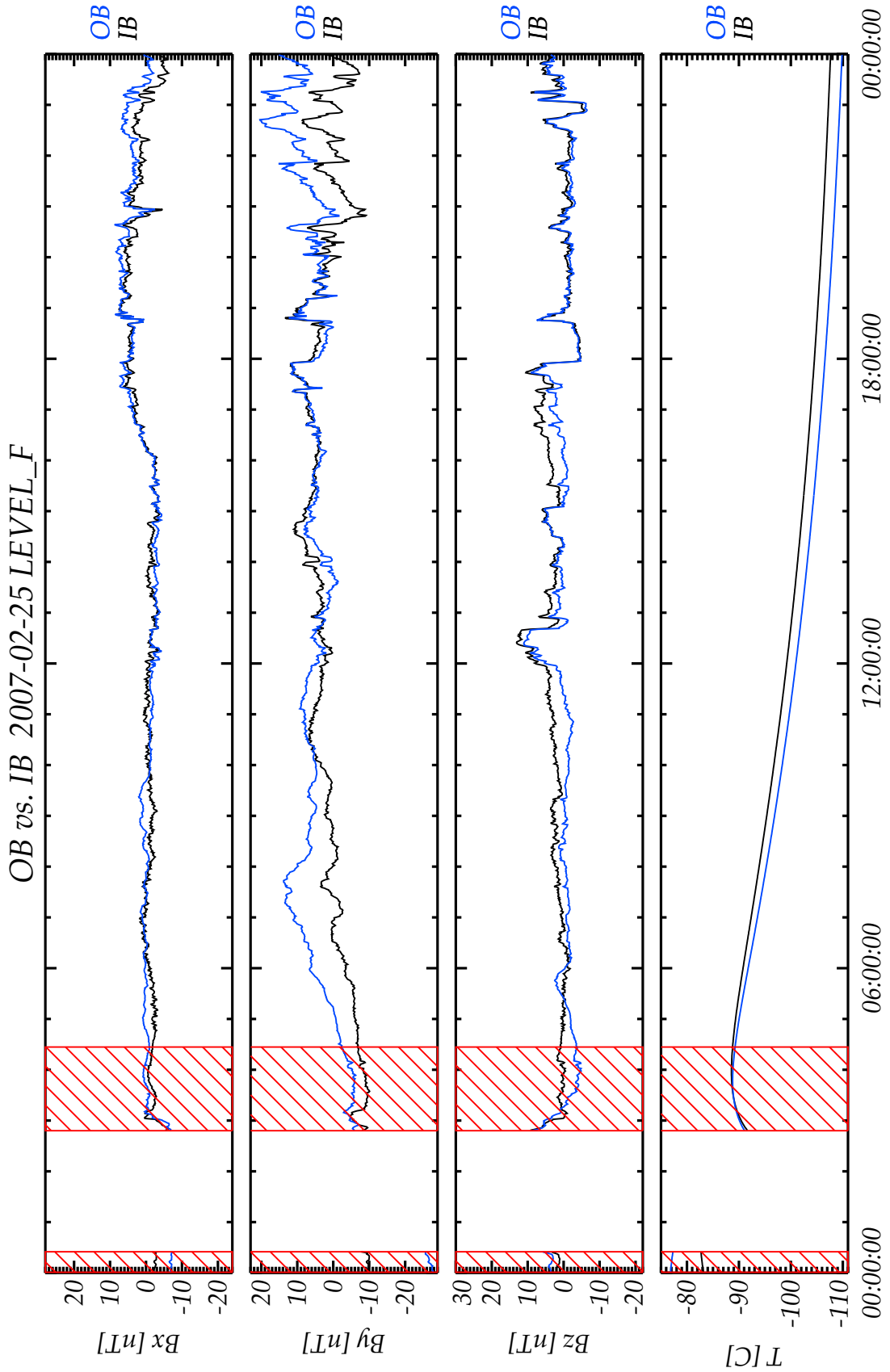
DATE	LEVEL	AVERAGE [s]	SENSOR
2007-02-23	CLG	1	OB
2007-02-23	CLF	1	OB
2007-02-23	CLF	1	IB
2007-02-23	CLG	1	IB
2007-02-24	CLG	1	OB
2007-02-24	CLF	1	OB
2007-02-24	CLF	1	IB
2007-02-24	CLG	1	IB
2007-02-25	CLF	1	OB
2007-02-25	CLG	1	OB
2007-02-25	CLF	1	IB
2007-02-25	CLG	1	IB
2007-02-26	CLF	1	OB
2007-02-26	CLG	1	OB
2007-02-26	CLG	1	IB
2007-02-26	CLF	1	IB
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2007-02-27	CLF	1	IB
2007-02-27	CLG	1	IB

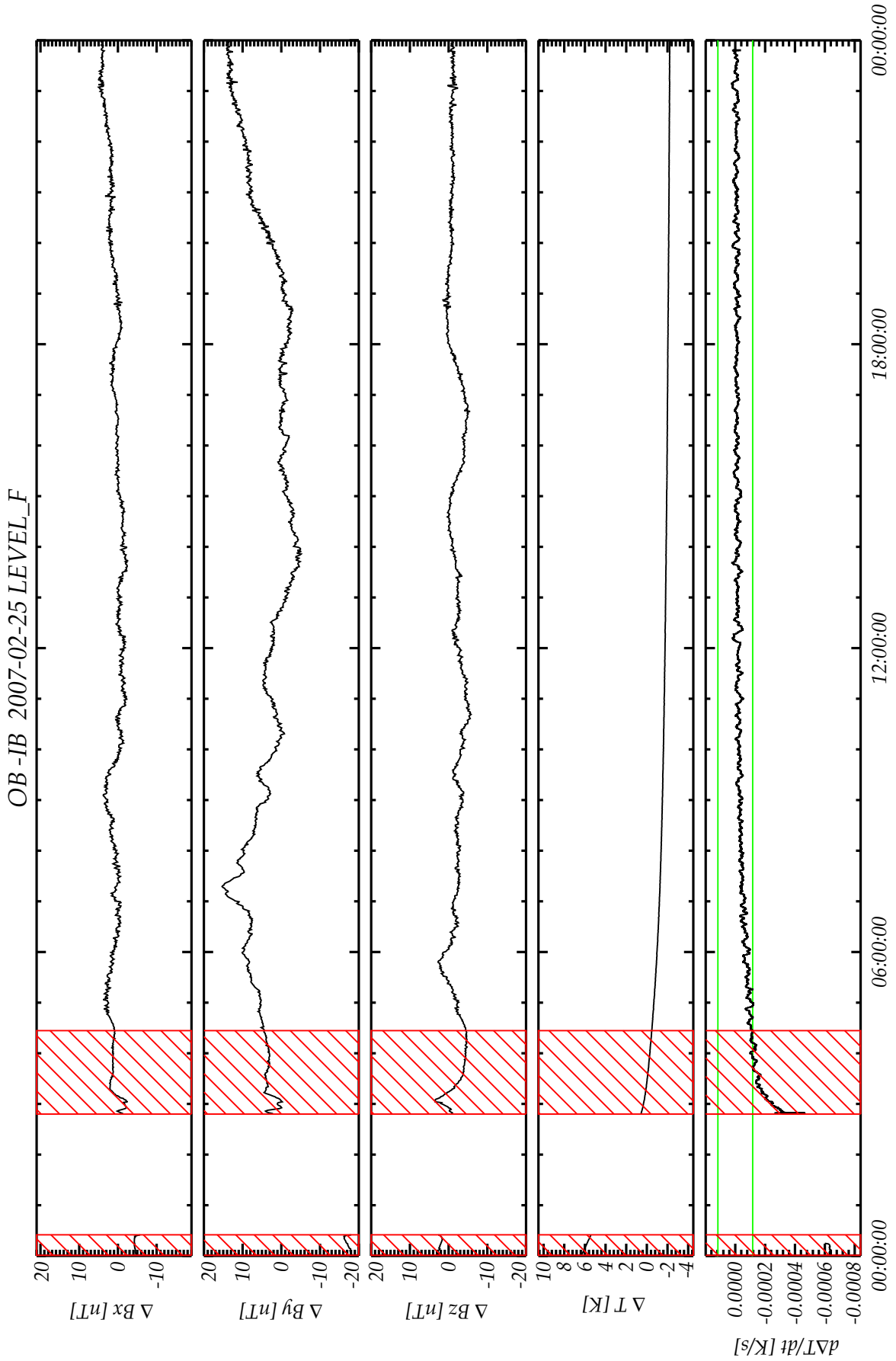


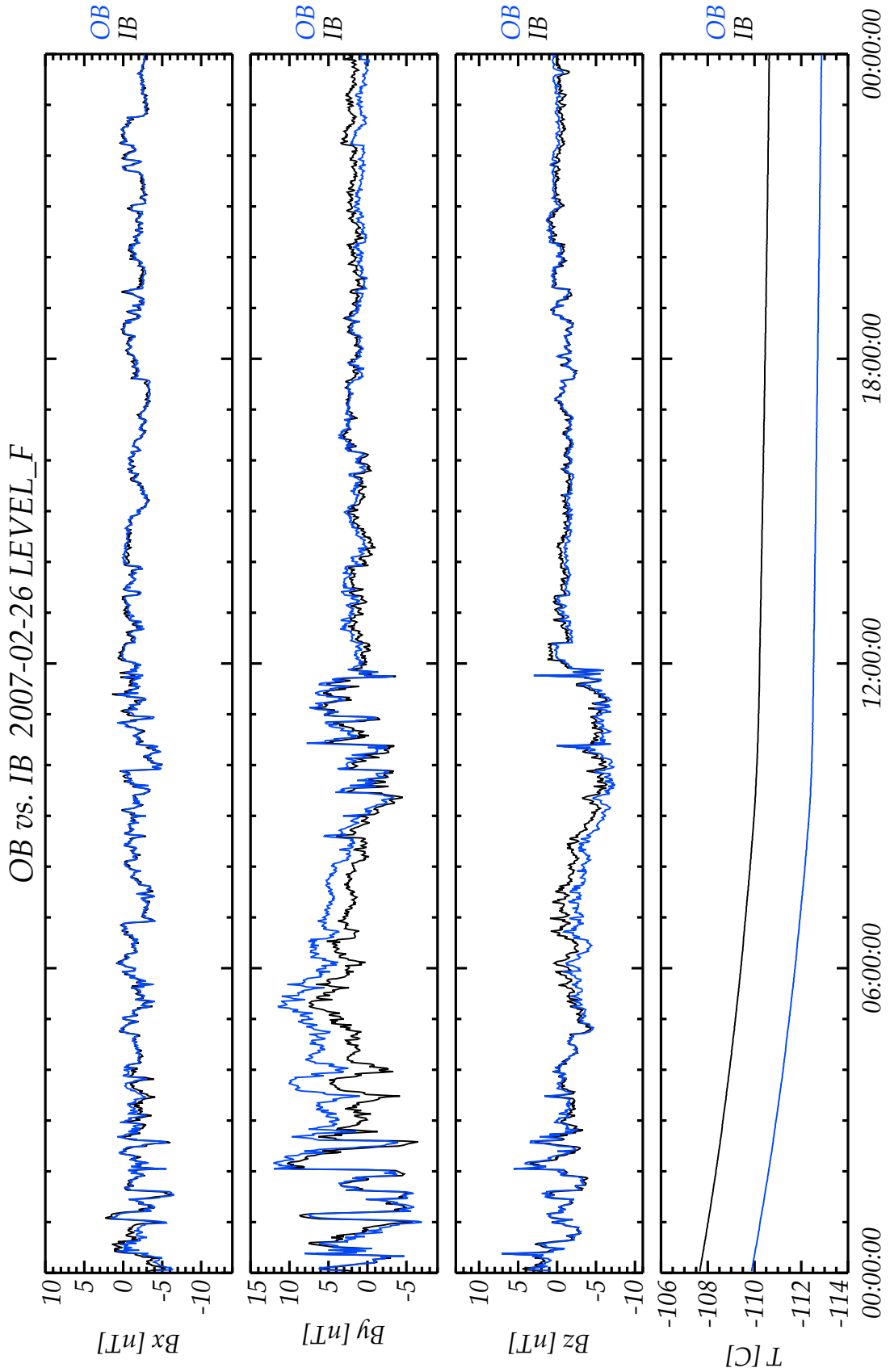




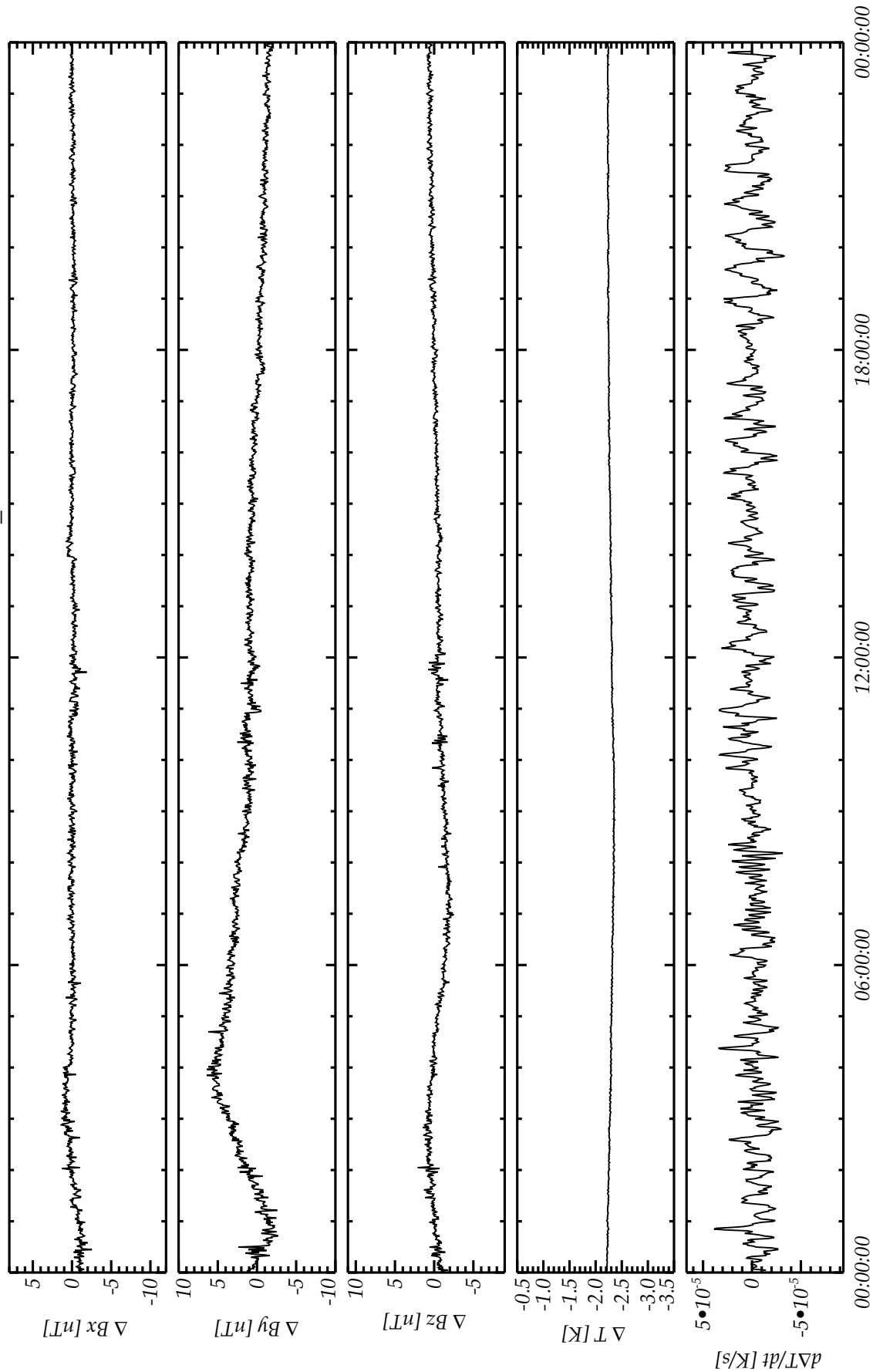


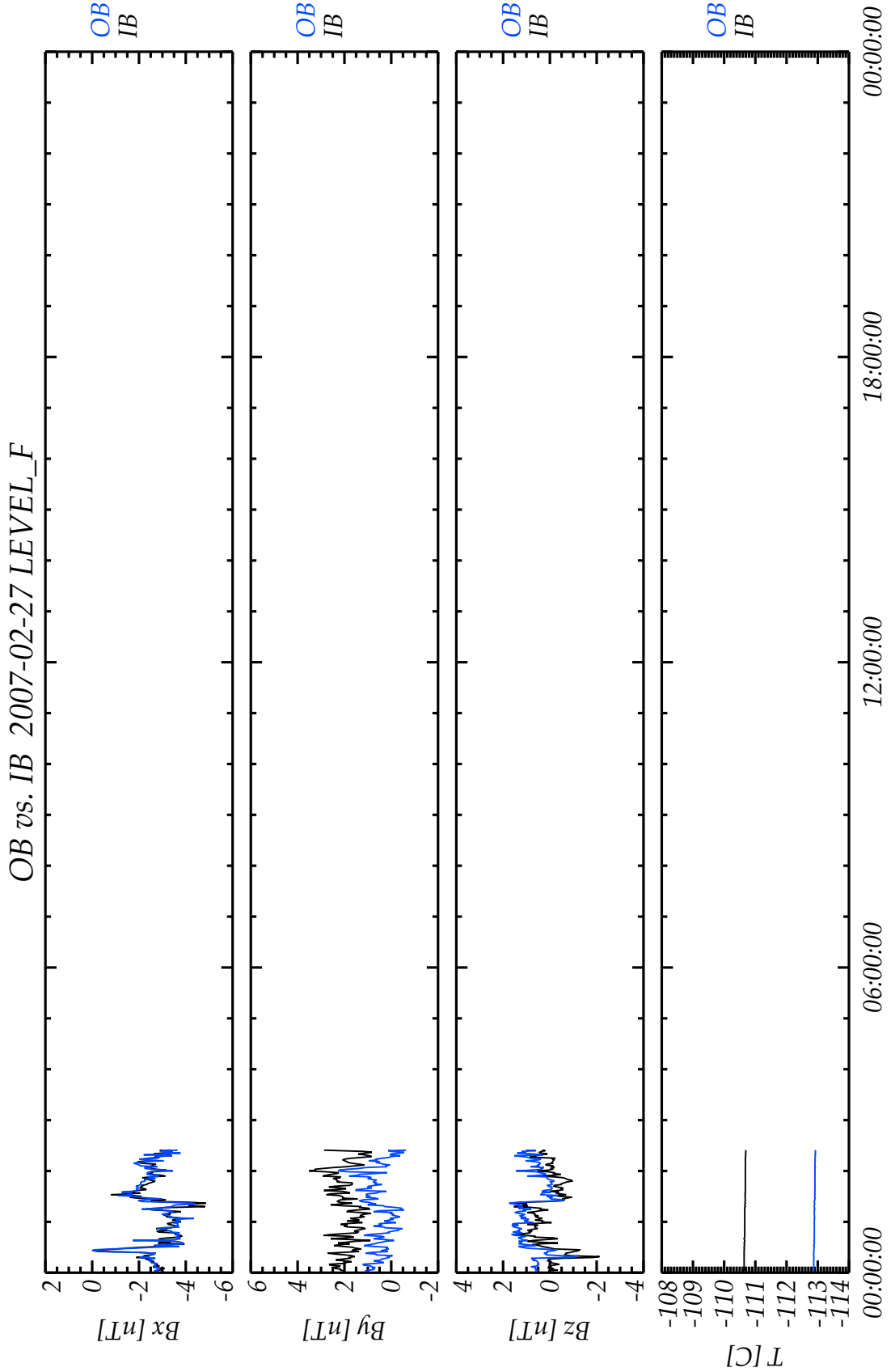


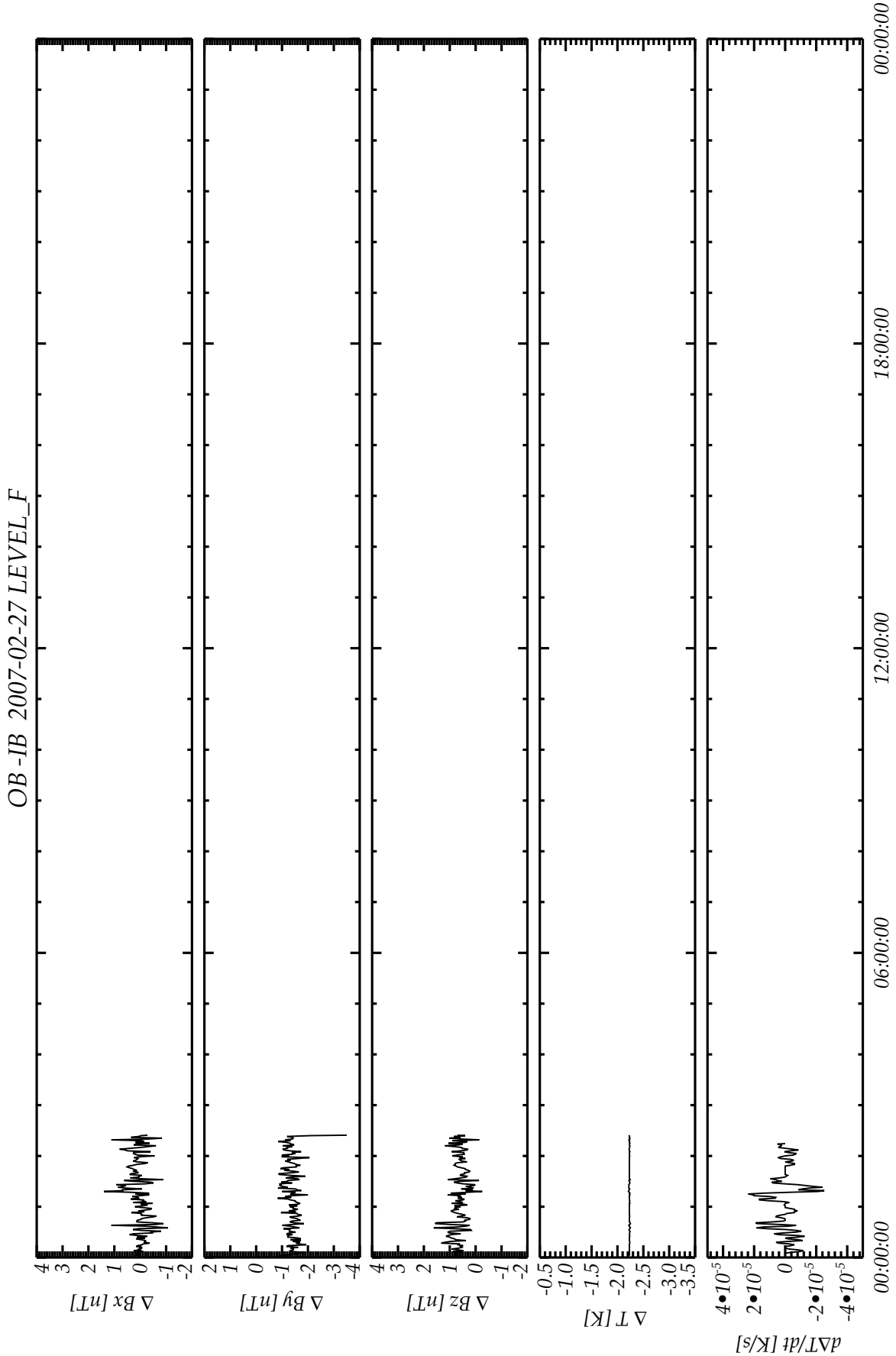




OB-IB 2007-02-26 LEVEL_F







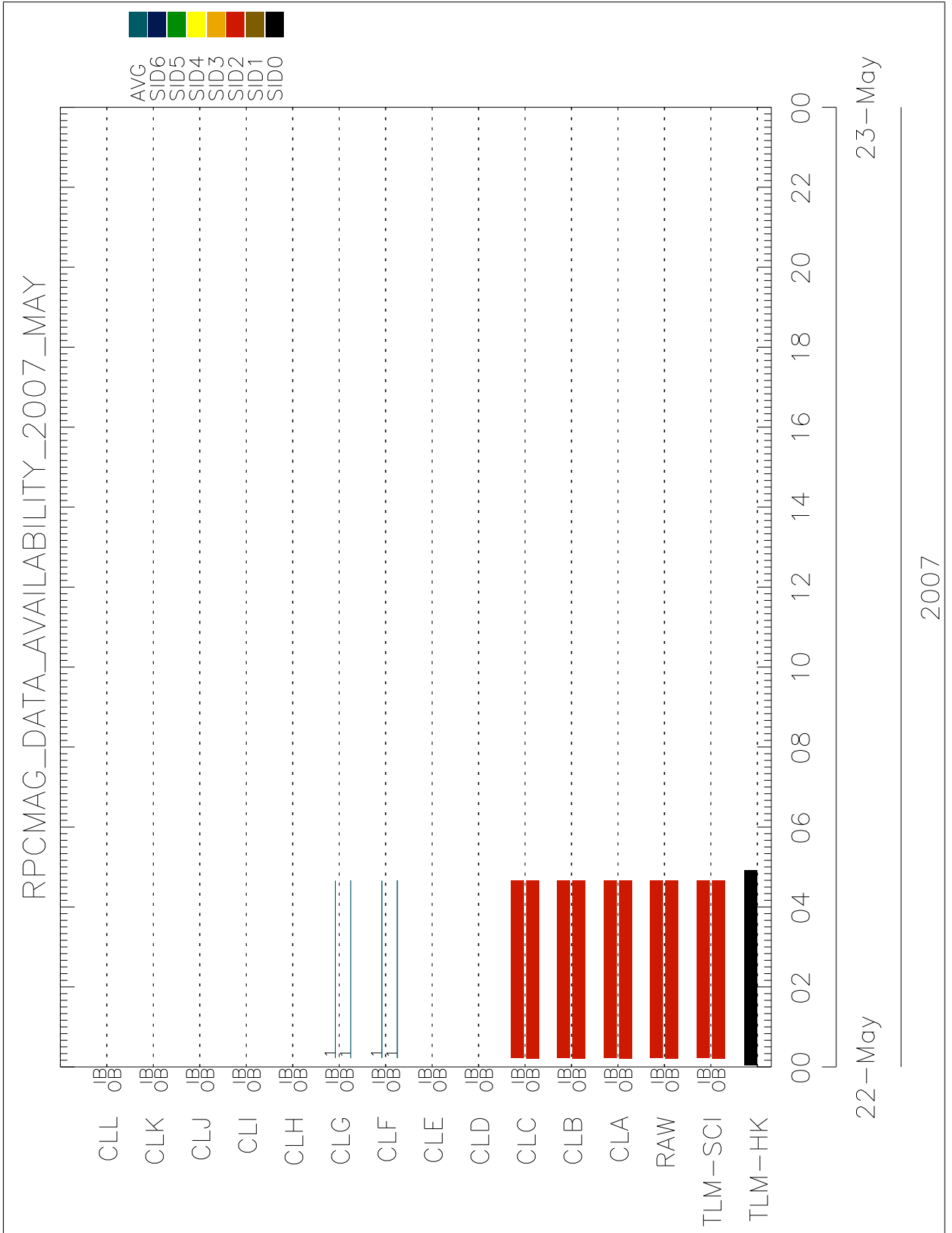


Figure 7: Overview May 2007

<h1>ROSETTA</h1>	Document: RO-IGEP-TR-0021 Issue: 2 Revision: 0 Date: January 22, 2010 Page: 84
<h1>IGEP</h1>	Institut für Geophysik u. extraterr. Physik Technische Universität Braunschweig

DATE	LEVEL	AVERAGE [s]	SENSOR
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2007-05-22	CLG	1	OB
2007-05-22	CLF	1	IB
2007-05-22	CLG	1	IB

