

**MMS Observations of Field Line Resonances Under Disturbed Solar Wind Conditions**

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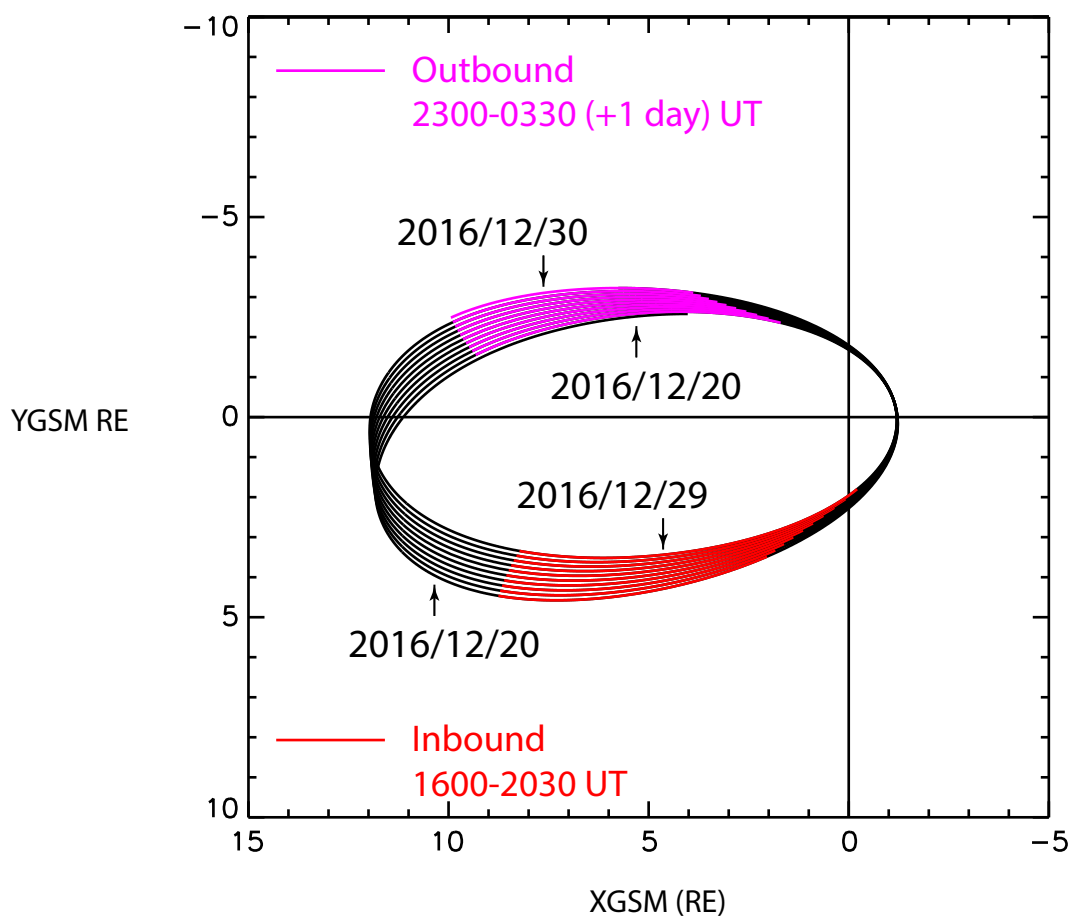
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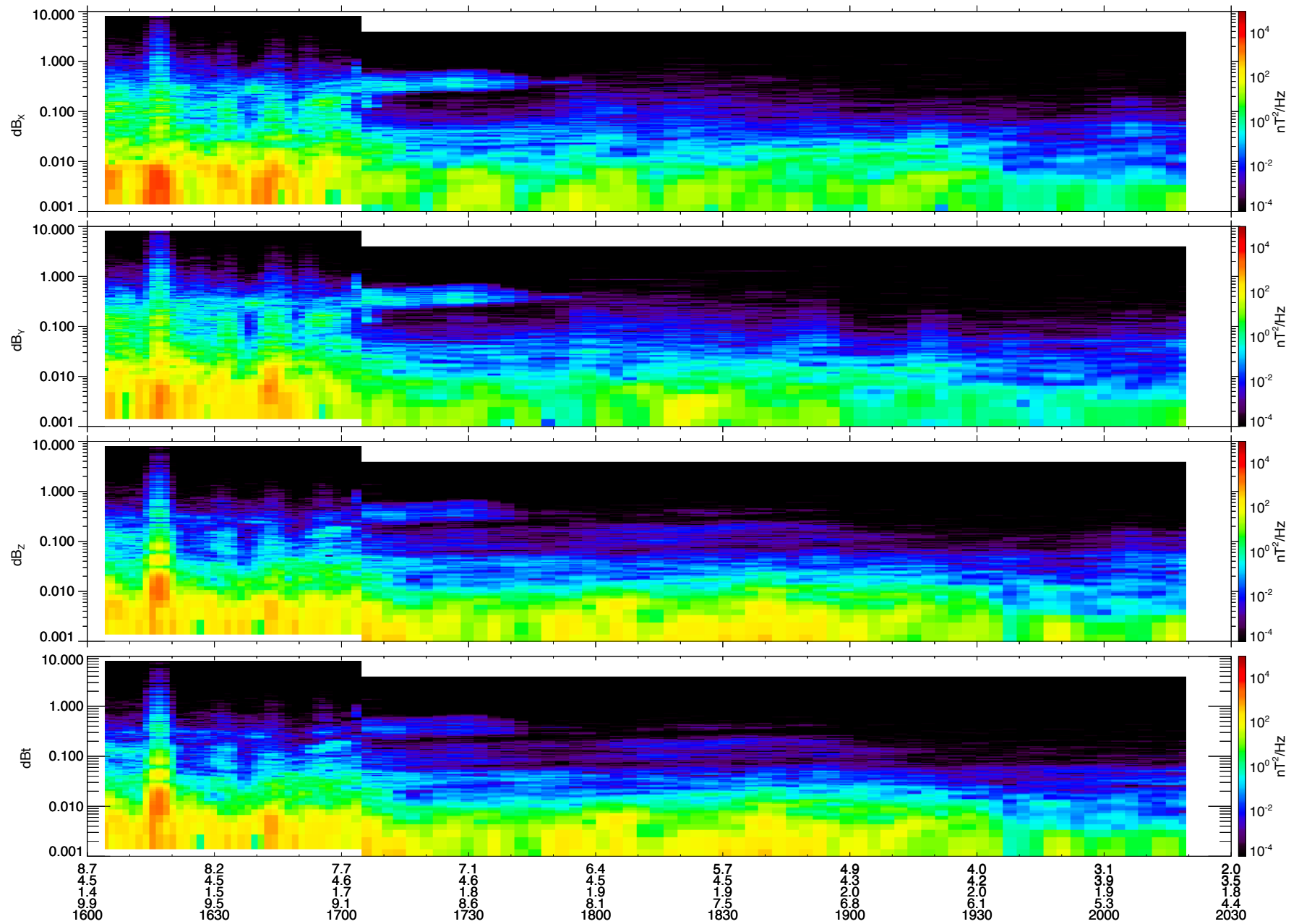
Figure S1

**Introduction**

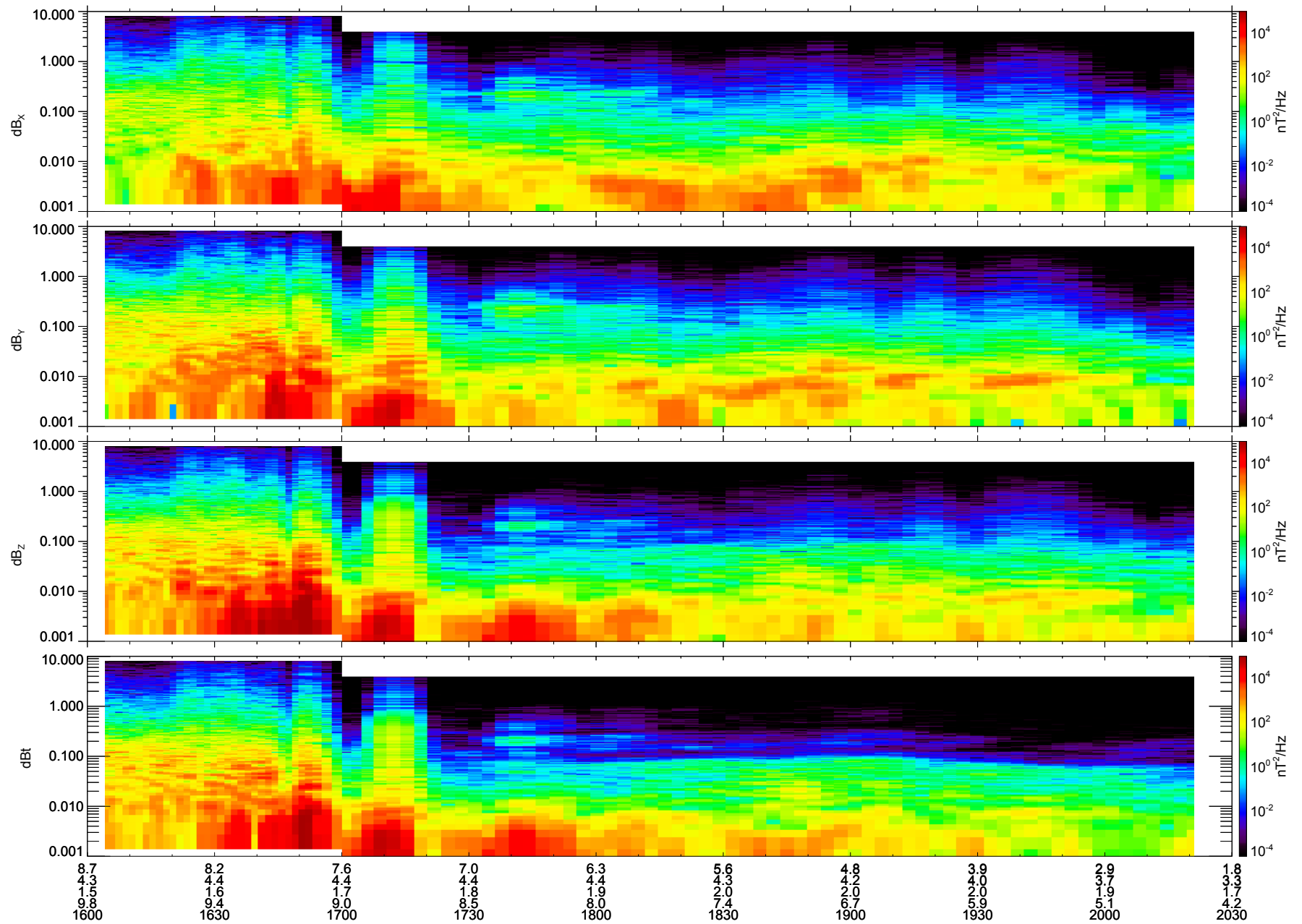
**Figure S1** provides supporting information to Figures 2. The first page shows the MMS-1 spacecraft orbits in the GSM XY plane for the time period from 0000 UT 20 December 2016 to 0330 UT 30 December 2016. The spacecraft orbit period was approximately 1 day in this mission phase. The rest of the pages show the dynamic power spectra of the magnetic field components ( $b_x$ ,  $b_y$ ,  $b_z$ ) and the field strength ( $b_t$ ) for inbound and outbound passes. The colored orbit segments in the orbit plot correspond to the inbound (red) and outbound (magenta) time intervals displayed in these pages. The horizontal labels are the spacecraft position (XGSM, YGSM, ZGSM) in RE, the radial distance in RE, and Universal Time (UT), respectively.



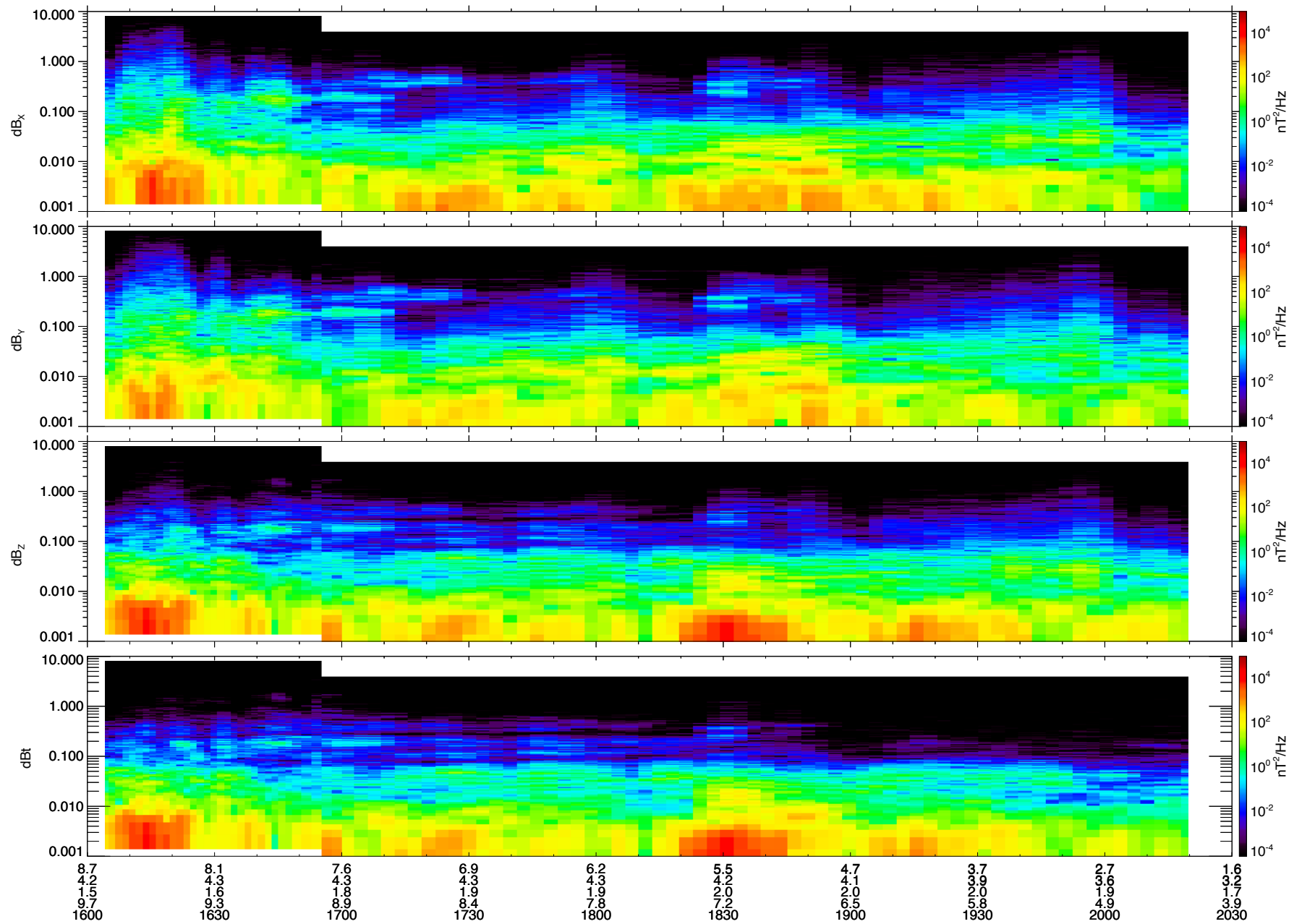
MMS1 Inbound Dynamic Power Spectrum - 2016-12-20



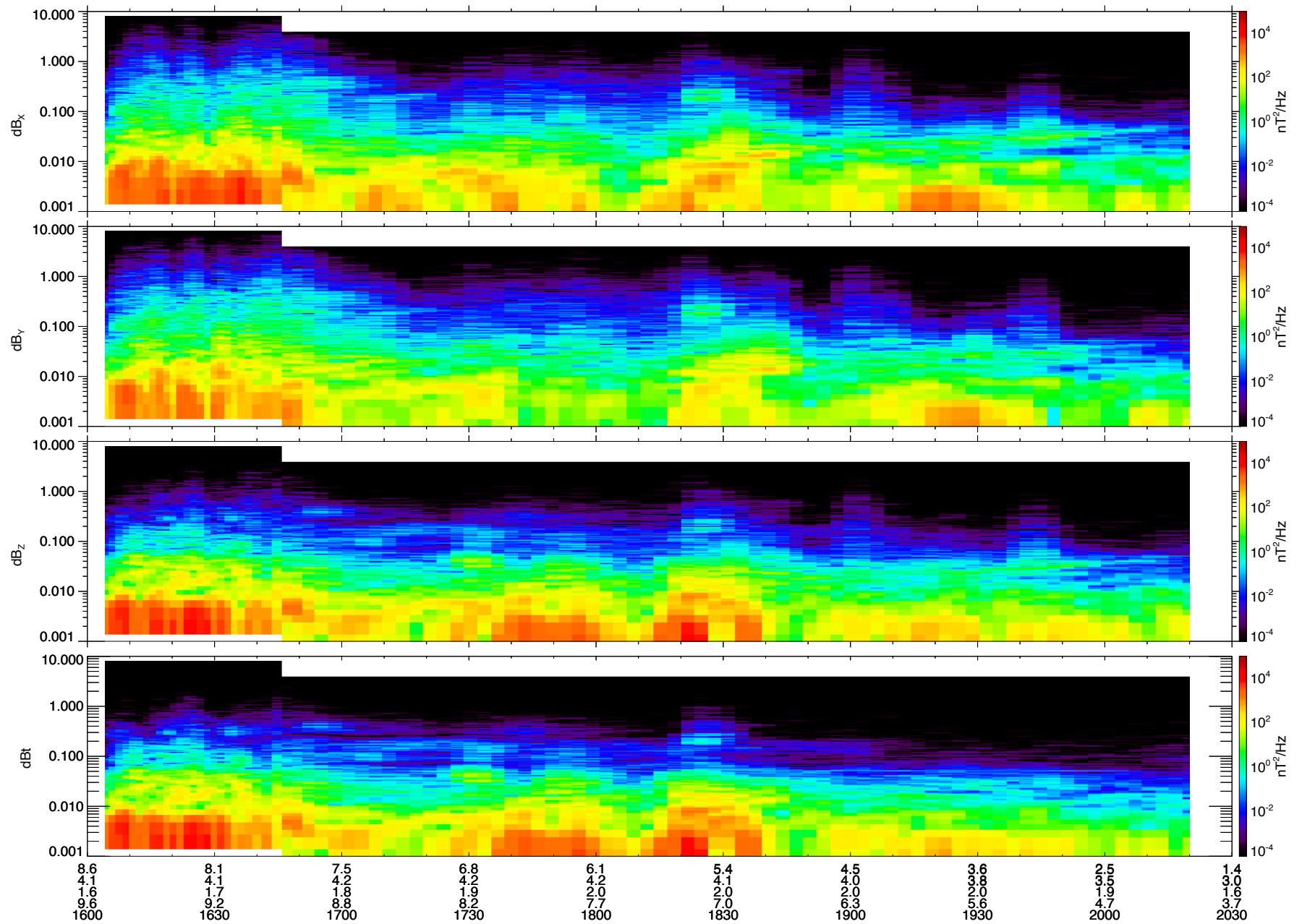
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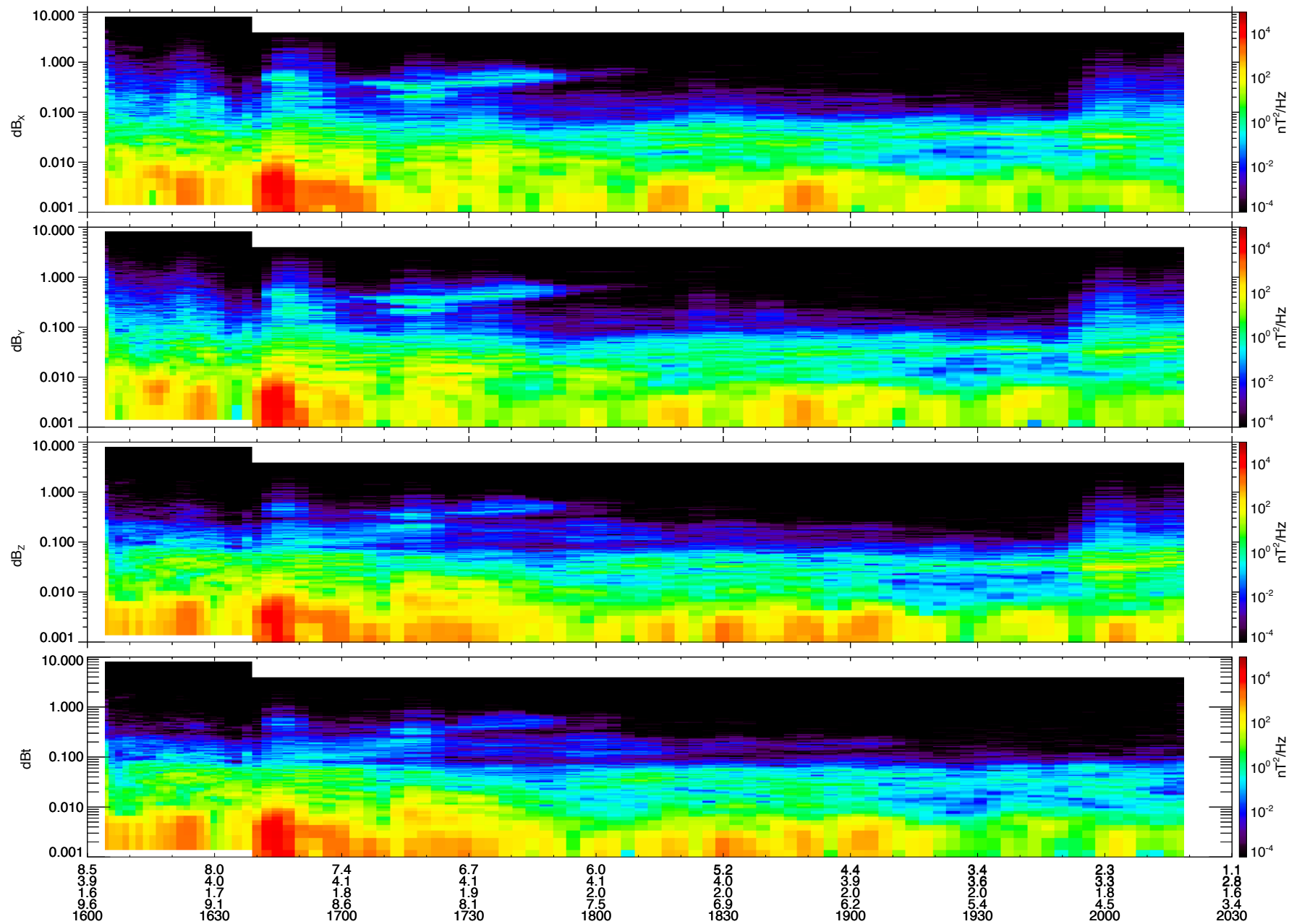
MMS1 Inbound Dynamic Power Spectrum 2016-12-22



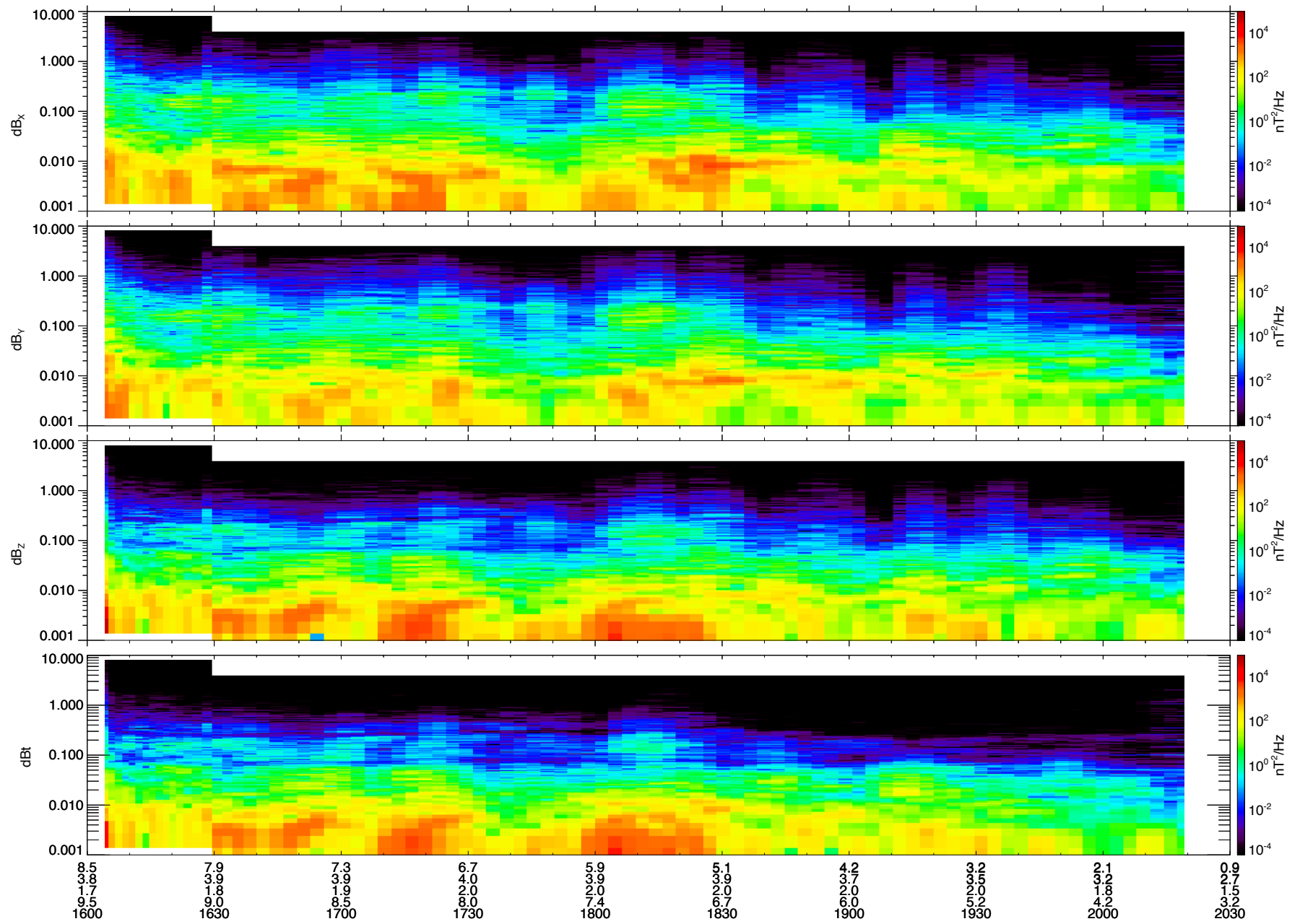
MMS1 Inbound Dynamic Power Spectrum 2016-12-23



MMS1 Inbound Dynamic Power Spectrum 2016-12-24

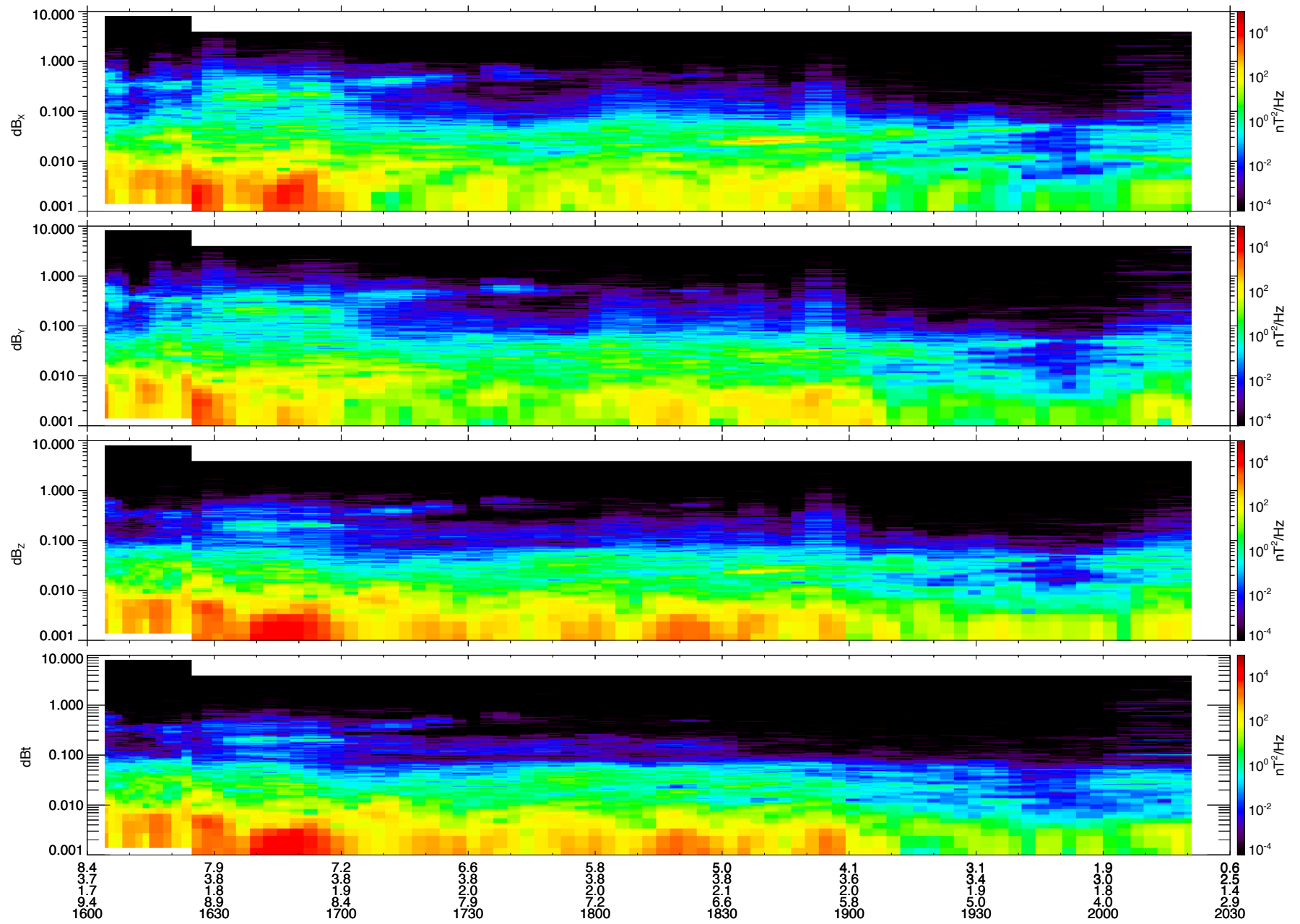


MMS1 Inbound Dynamic Power Spectrum 2016-12-25

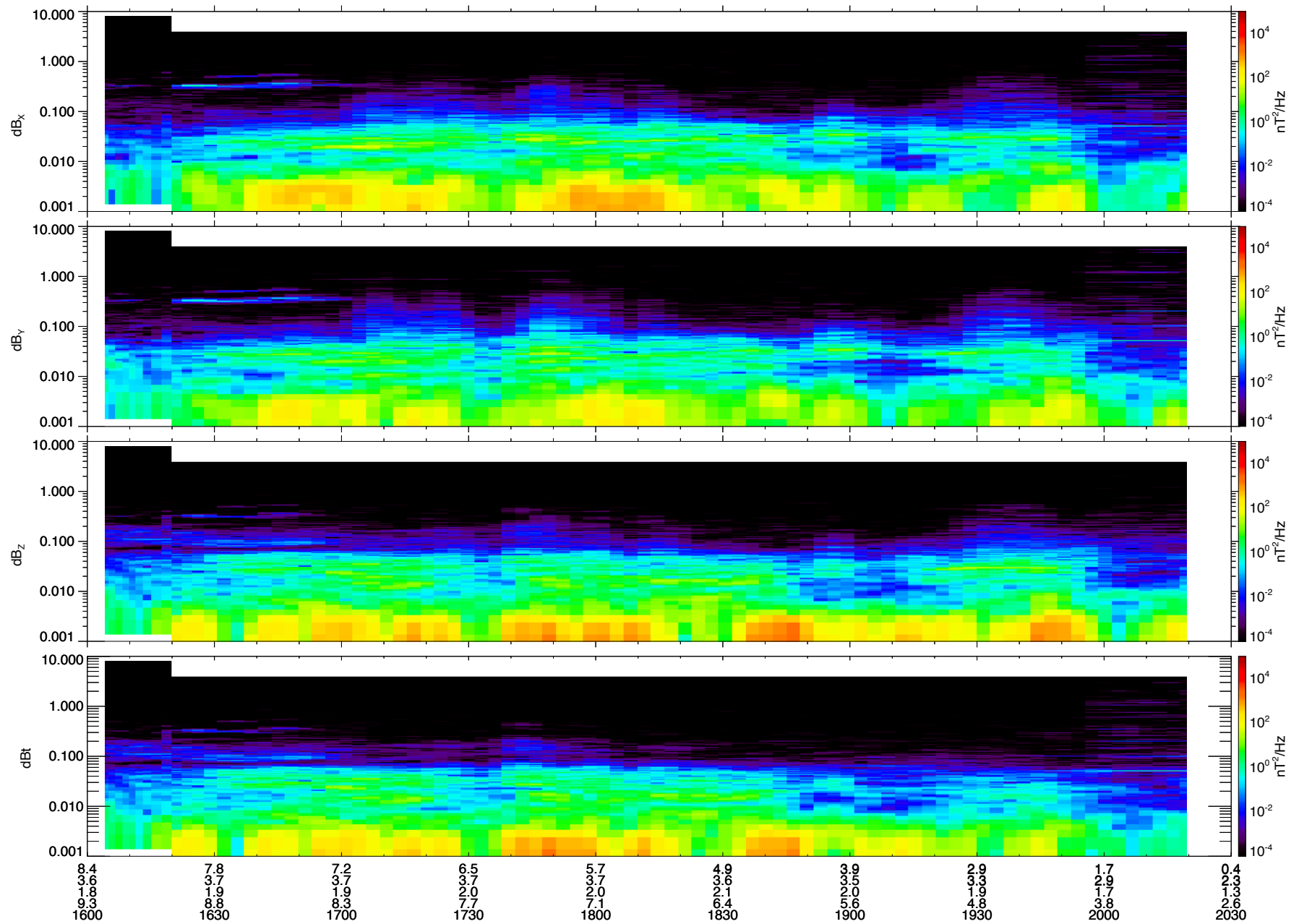




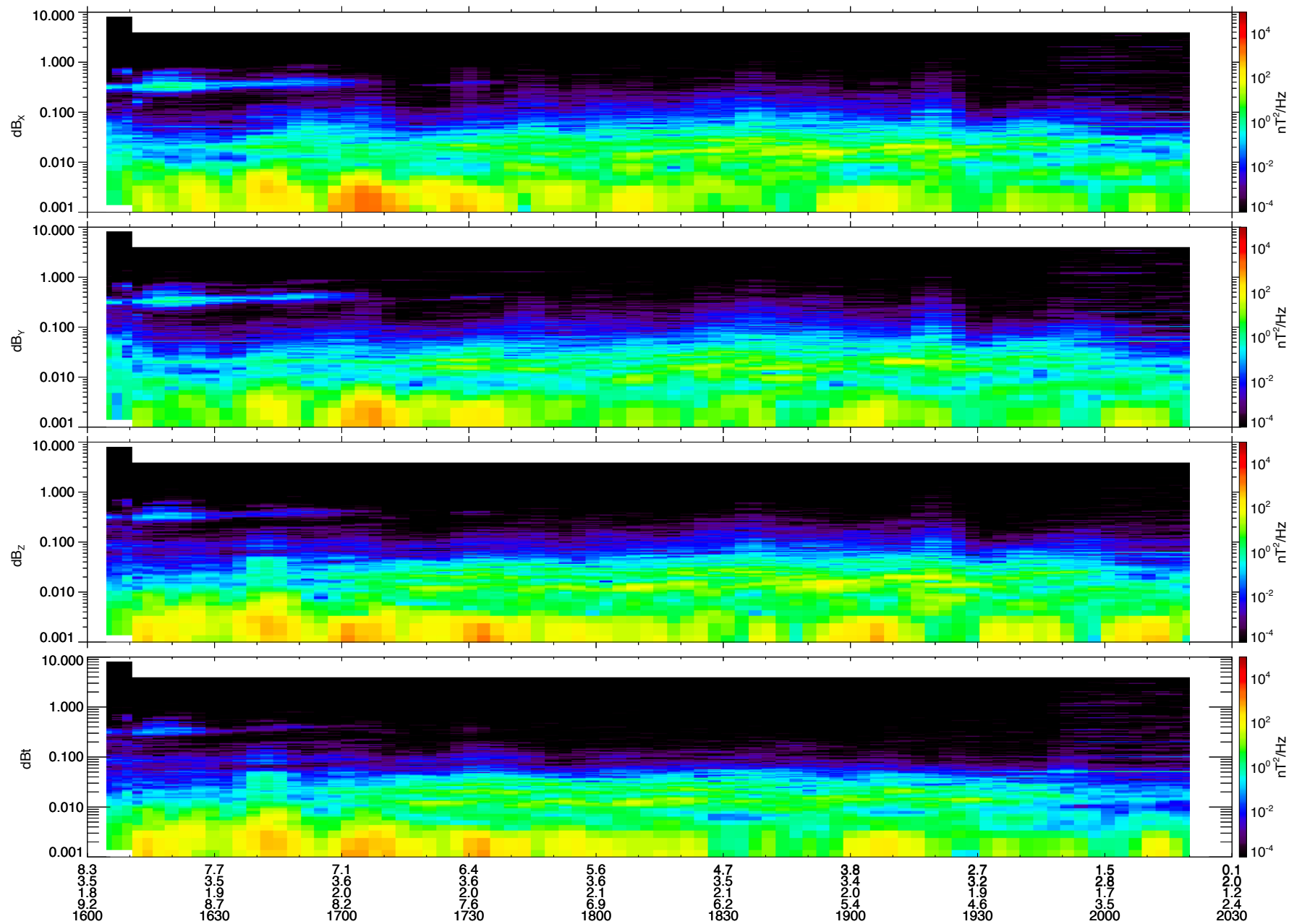
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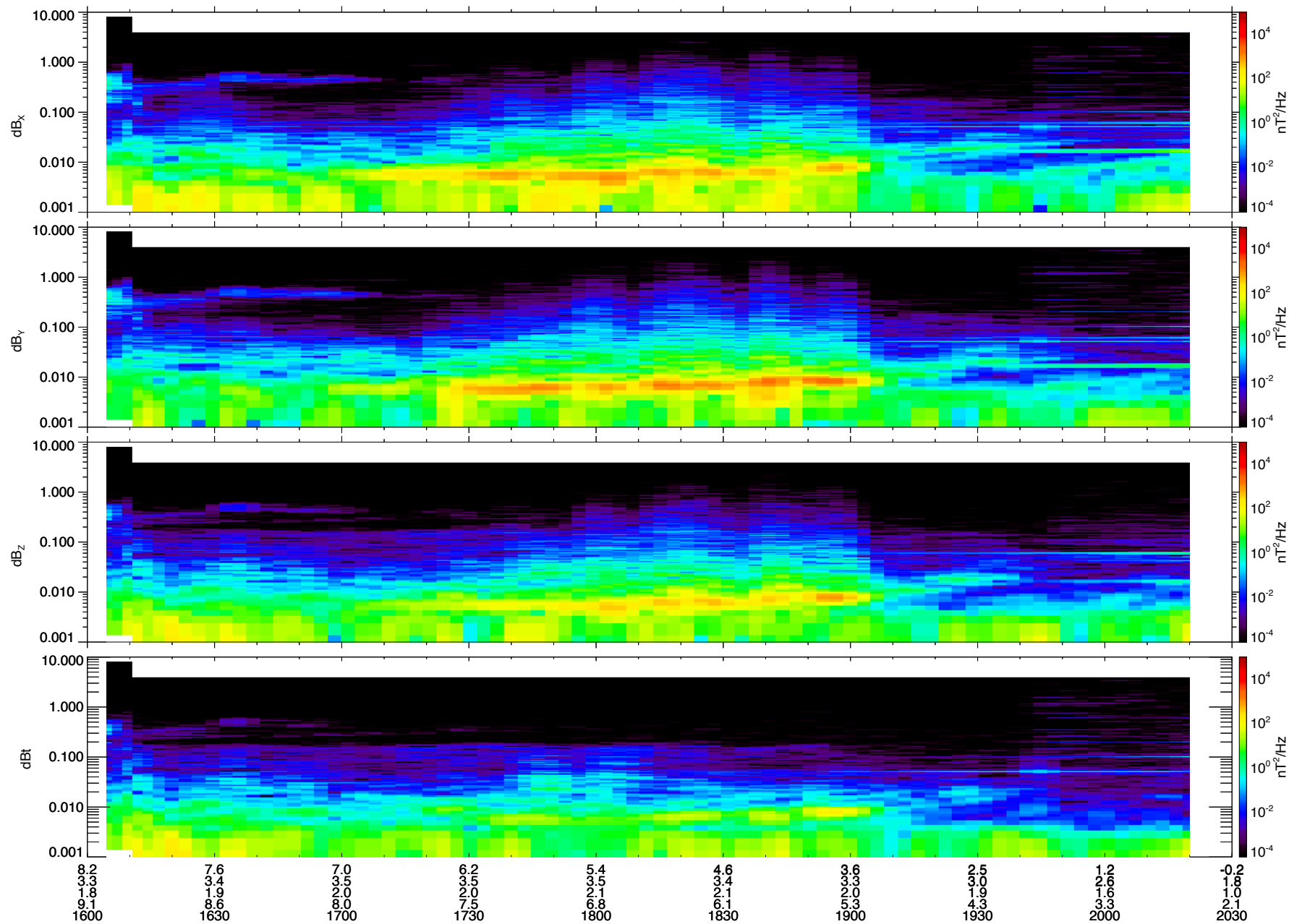
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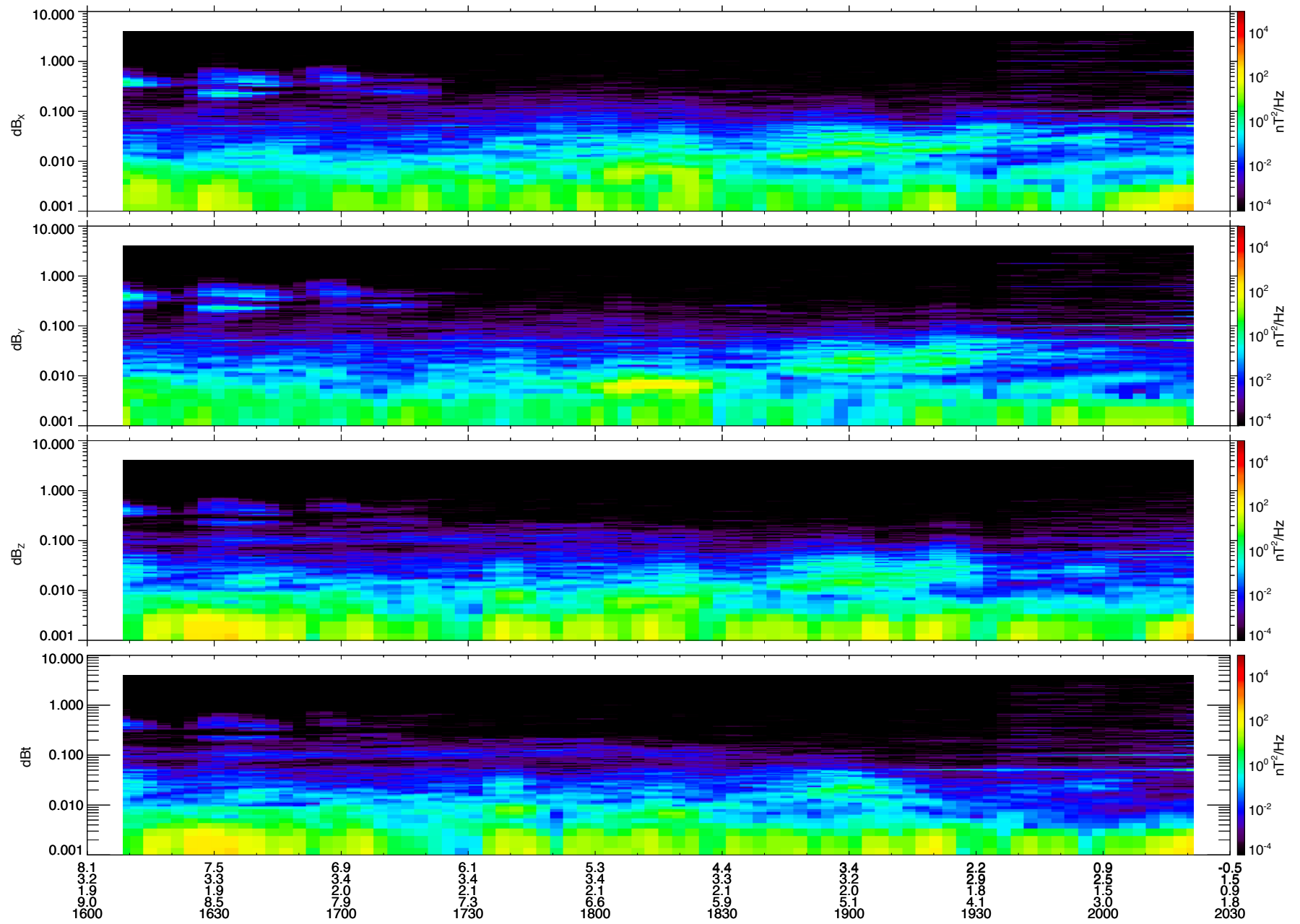
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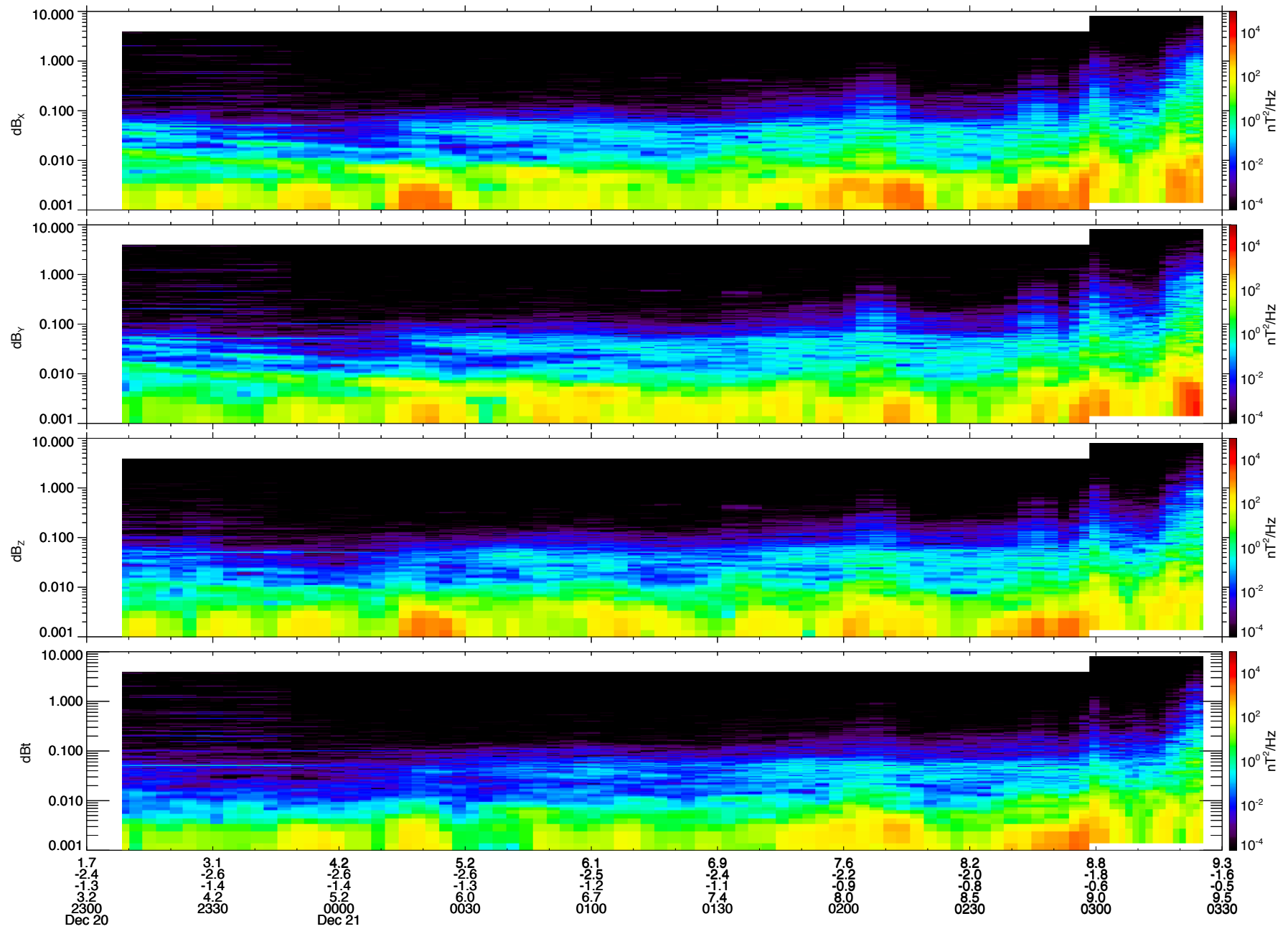
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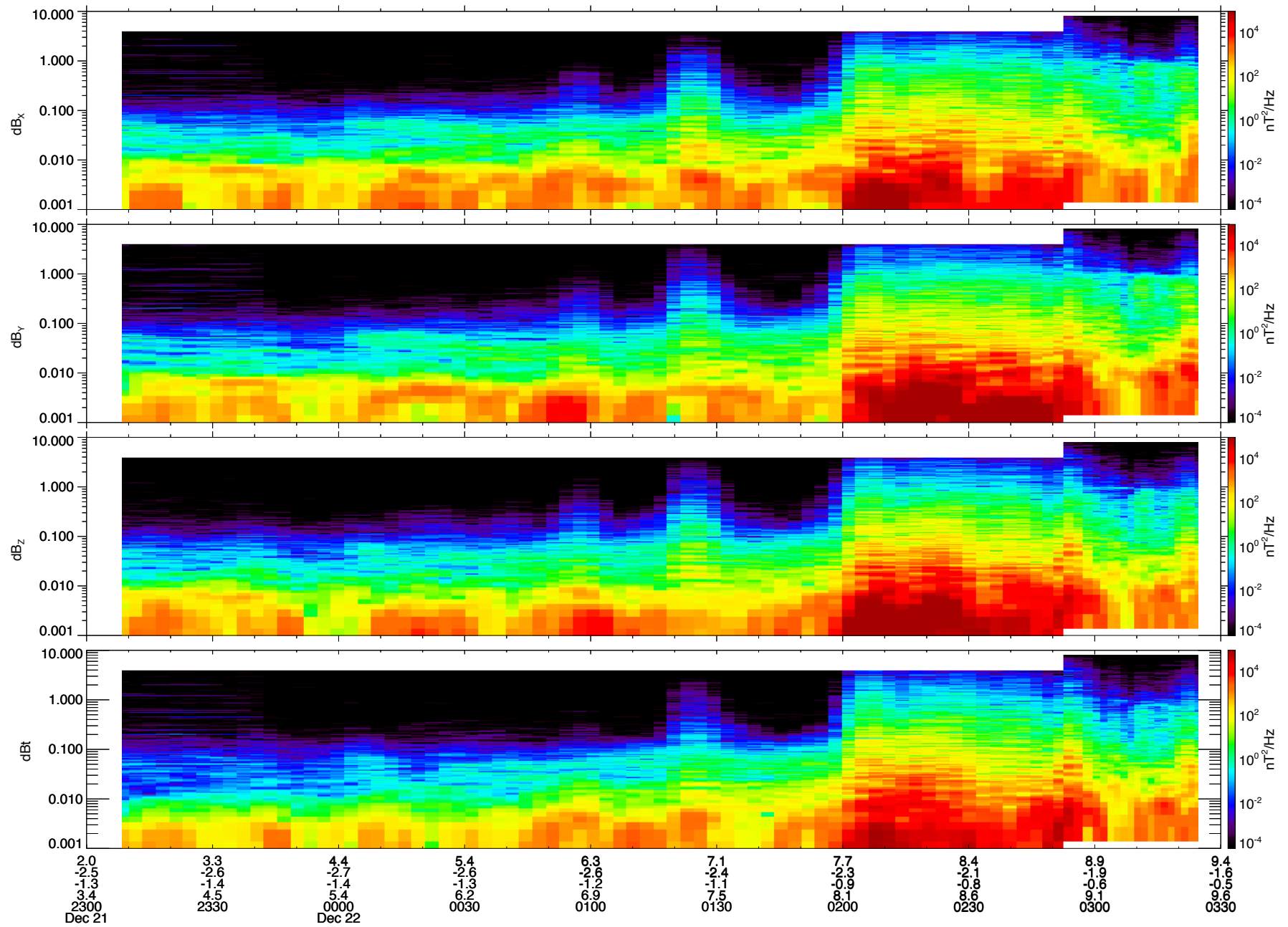
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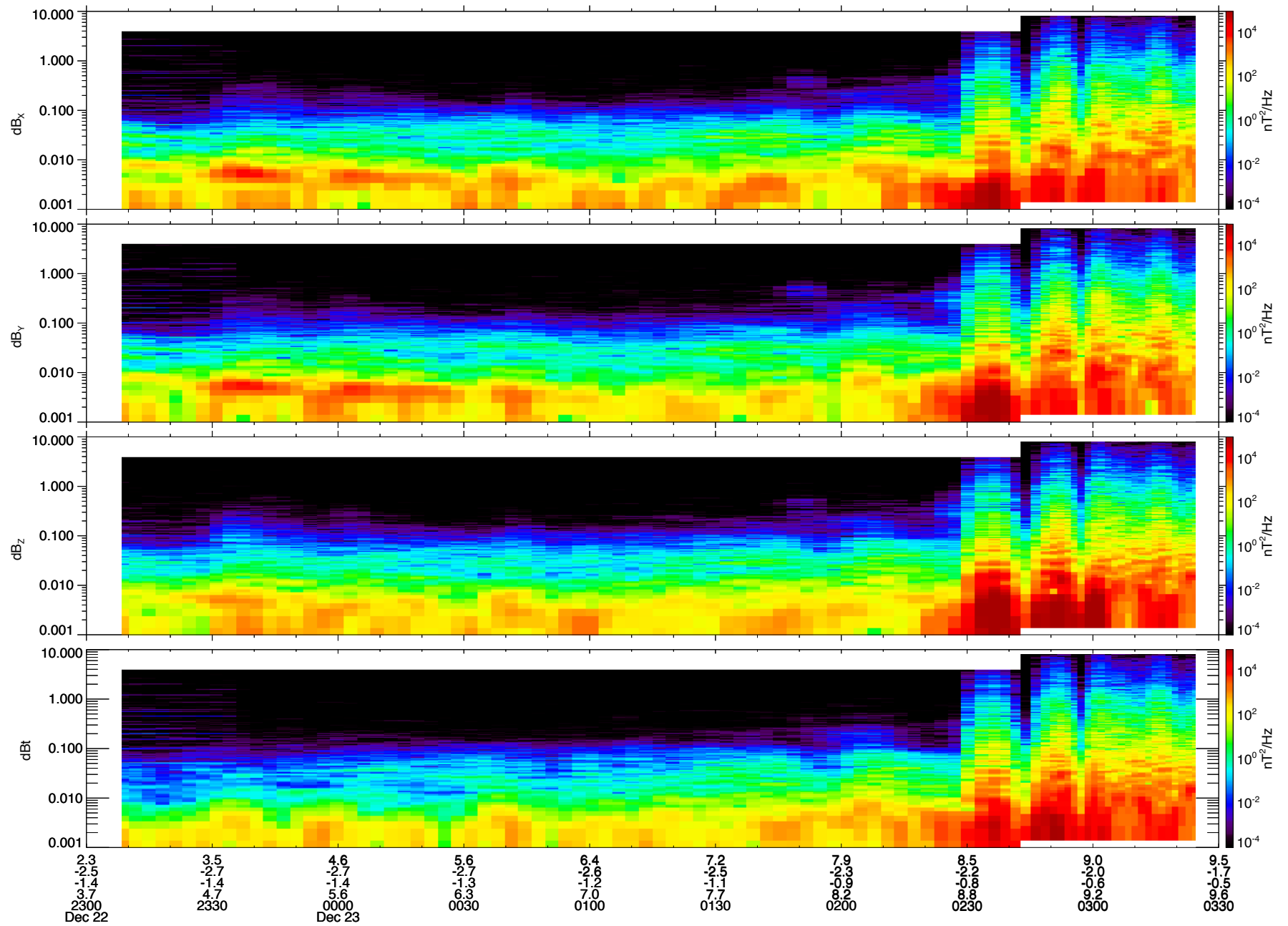
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# MMS1 Outbound Dynamic Power Spectrum 2016-12-21

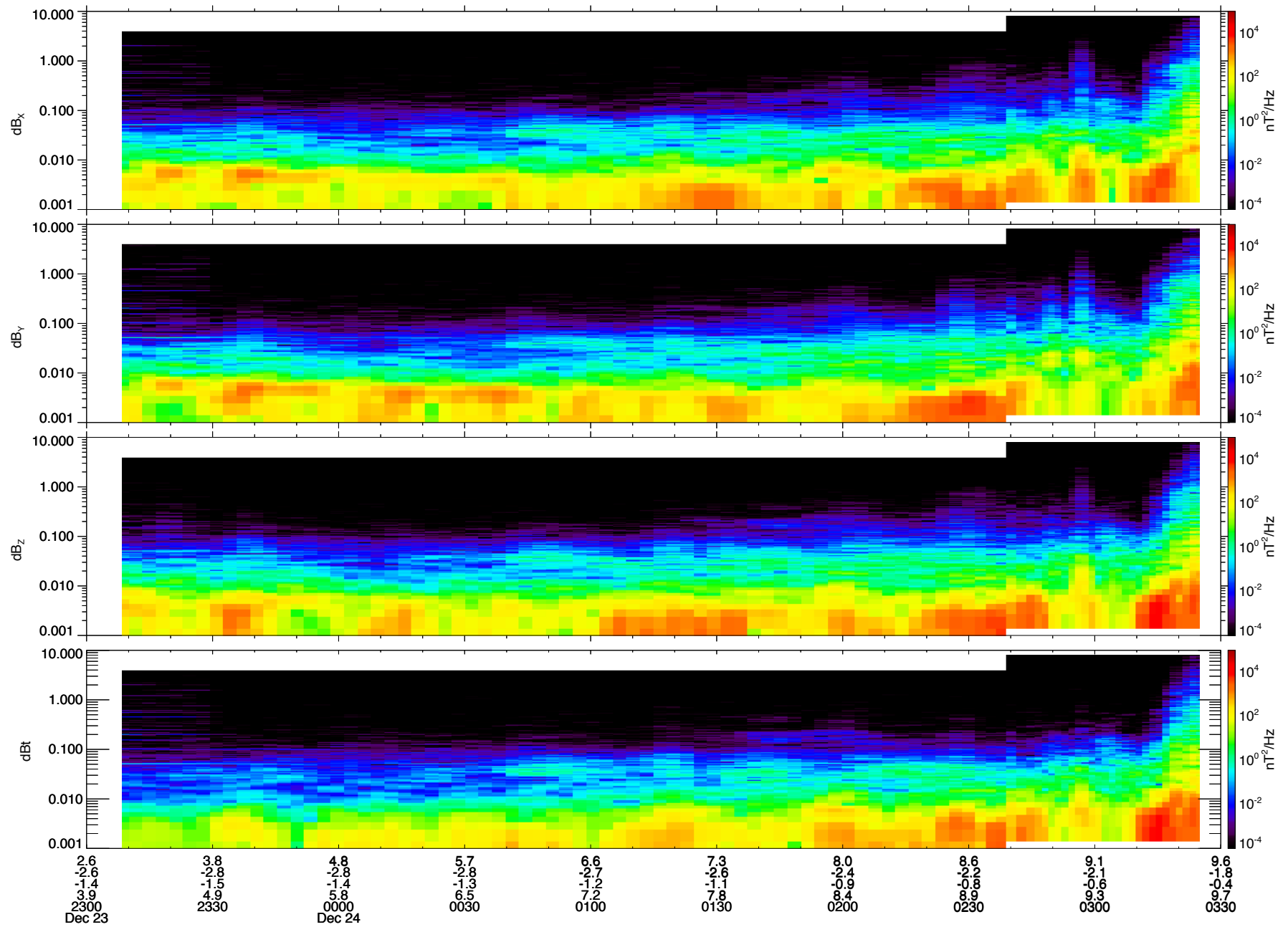


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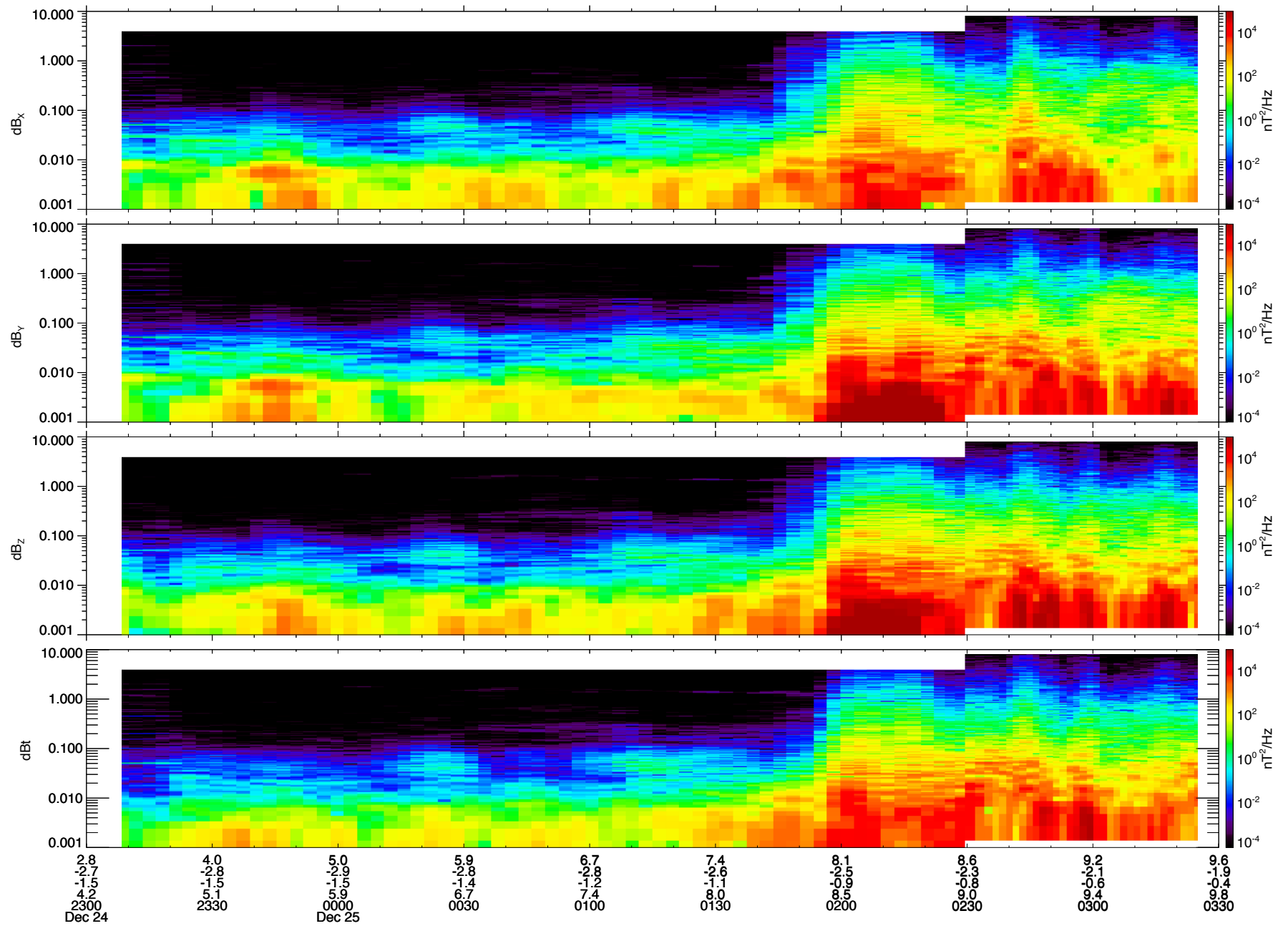




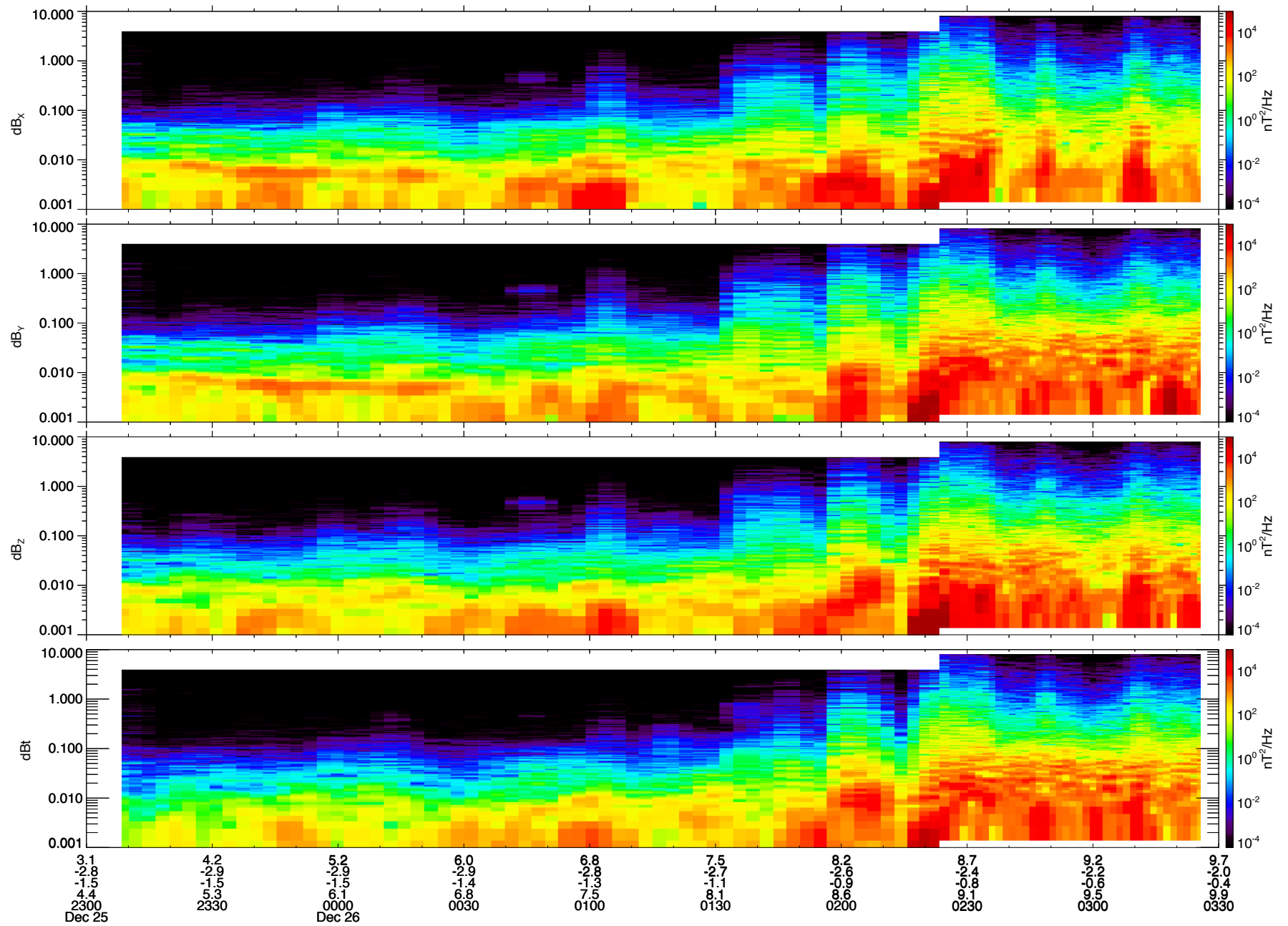
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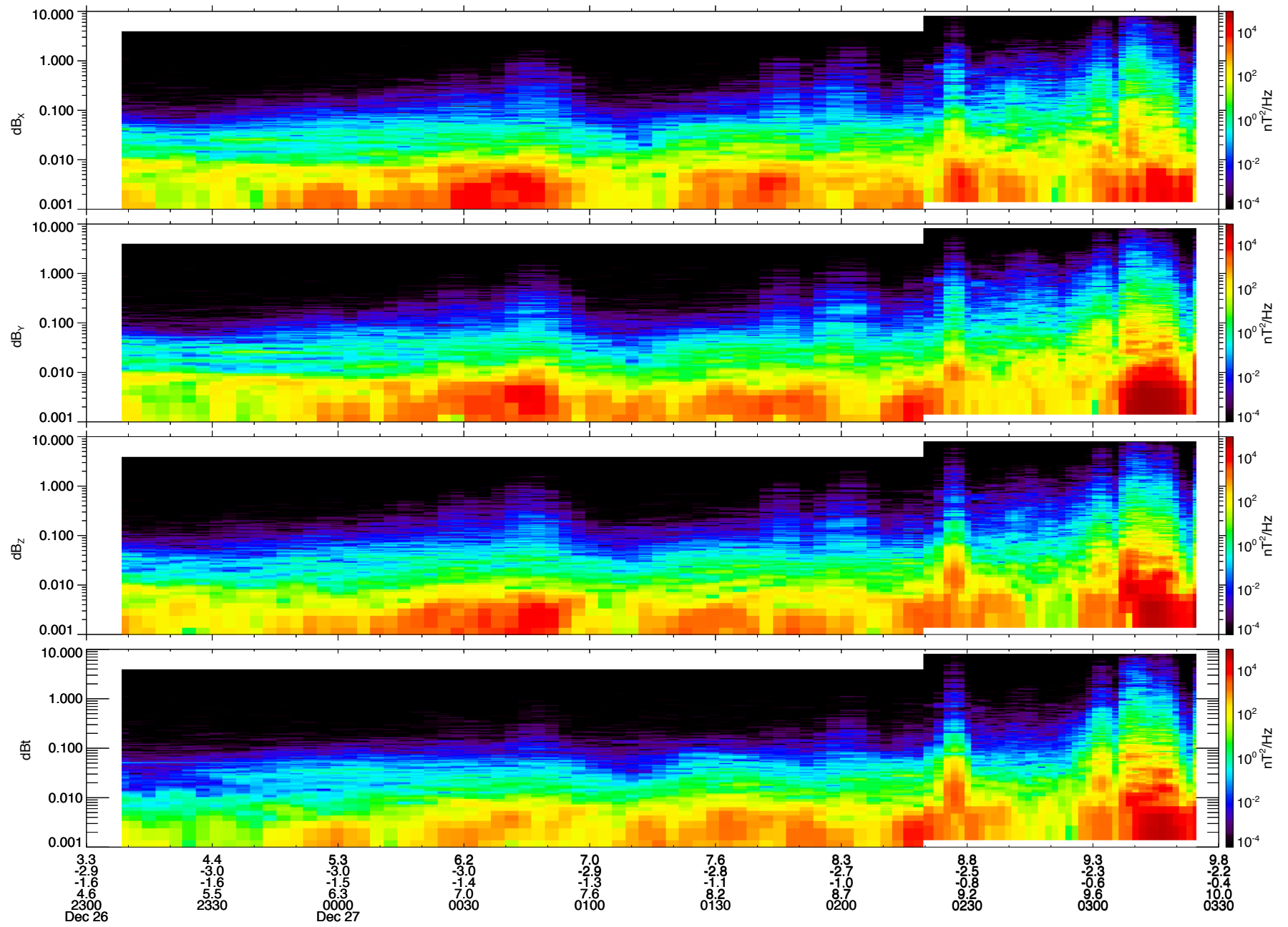
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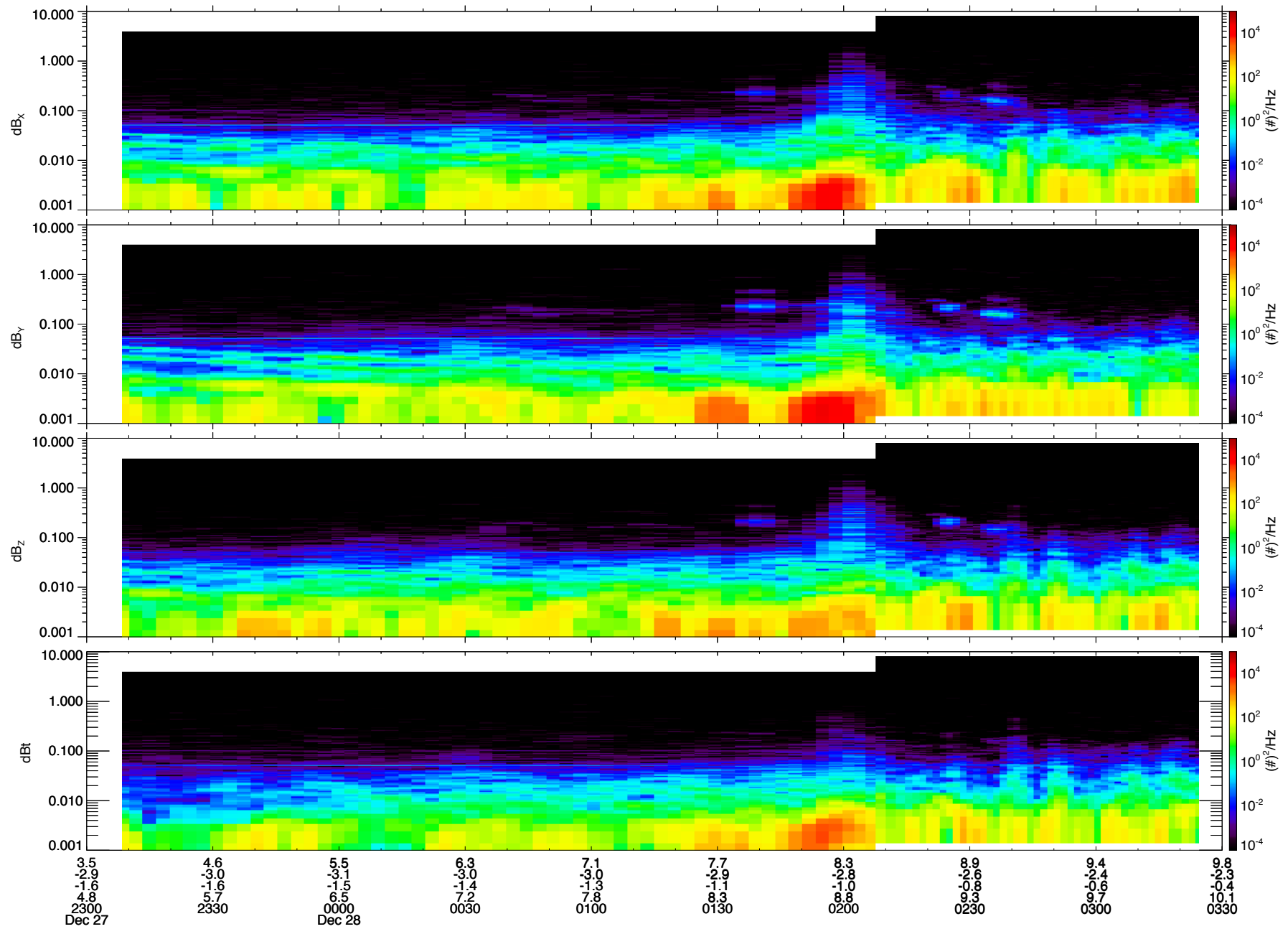
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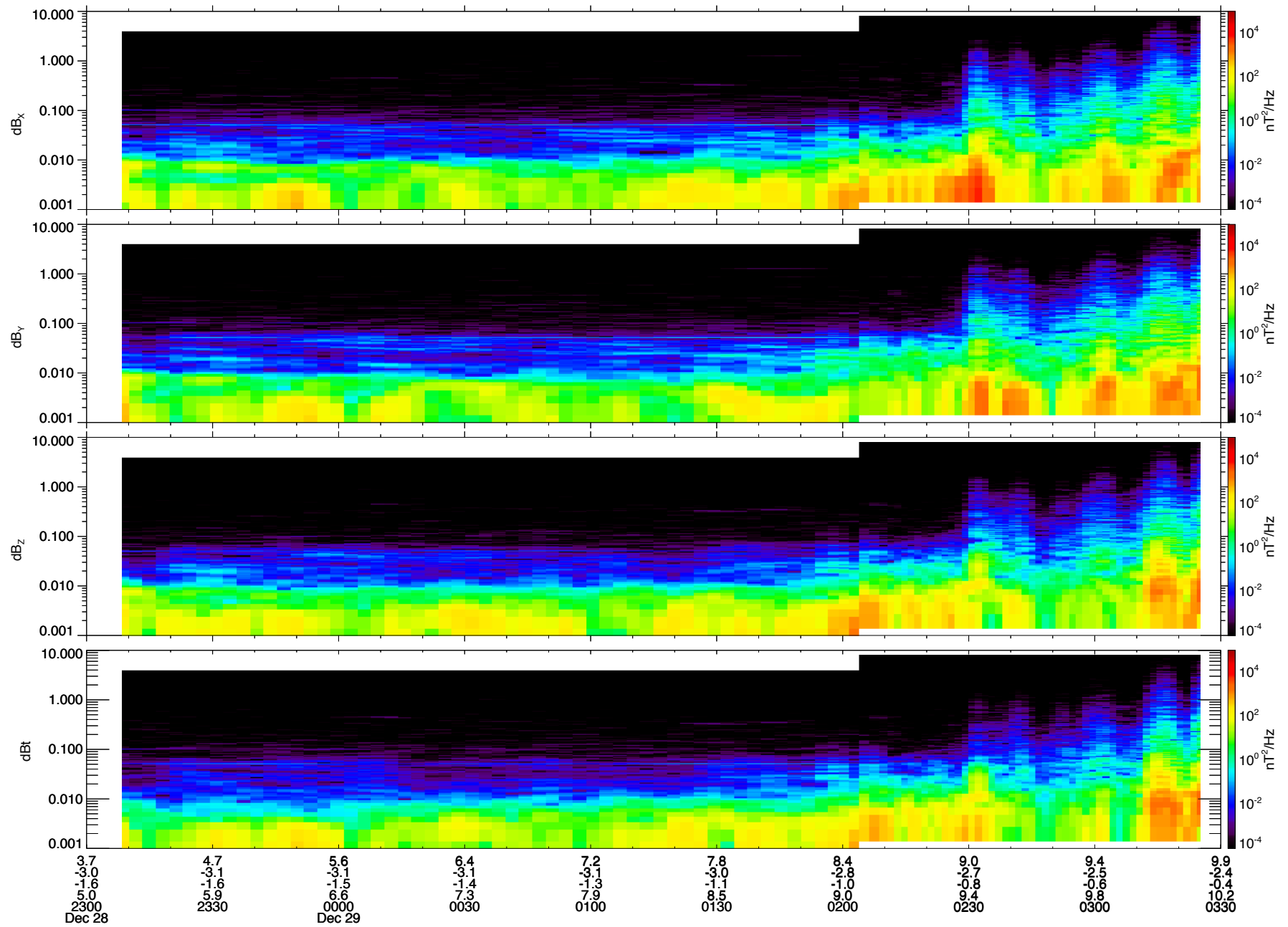
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MMS1 Outbound Dynamic Power Spectrum 2016-12-28



MMS1 Outbound Dynamic Power Spectrum 2016-12-29

