

PRELIMINARY REPORT OF 060315

last update on Wed Mar 15 16:59:34 GMT 2006

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1 - Introduction

This report is based on the analysis of wave mode level-1 cross spectra (ASA_WVS_1P), global monitoring products (ASA_GM1_1P), which are the available few hours after the acquisition, on the browse (BP) products and on the Module Stepping (MS) product.

2 - Summary

2.1 - Instrument Unavailability

No unavailabilities during the reported period.

2.2 - Auxiliary files

Summary of the auxiliary files used from 2006-03-14 00:00:00 to 2006-03-15 16:59:34

PDHS-K					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM

ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	43	65	9	0	27
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	43	65	9	0	27
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	43	65	9	0	27
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	43	65	9	0	27

PDHS-E					
AUXILIARY FILE	WVS	GM1	IMM	APM	WSM
ASA_CON_AXVIEC20051013_151540_20050916_195733_20061231_000000	42	45	39	15	66
ASA_XCA_AXVIEC20051219_162245_20050916_195733_20061231_000000	42	45	39	15	66
ASA_INS_AXVIEC20051219_161945_20030211_000000_20061231_000000	42	45	39	15	66
ASA_XCH_AXVIEC20051219_162547_20020301_000000_20081231_000000	42	45	39	15	66

2.3 - Browse Visual Inspection

No anomalies observed on available browse products

2.4 - Data Analysis

- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

3 - Module Stepping Mode

No anomalies observed on available MS products:

Polarisation	Start Time
V	20060313 180507
H	20060314 173330

MSM in V/V polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference
☒	☒
☒	☒
☒	☒
☒	☒

MSM in H/H polarisation

Pre-launch Reference	DDS-B (2003-06-12) reference
☒	☒
☒	☒
☒	☒
☒	☒
☒	☒

4 - Internal calibration Results

No anomalies observed.

4.1 - Daily statistics

4.1.1 - Evolution for WVS

Evolution of cal pulses for WVS
☒
☒

4.1.2 - Evolution for GM1

Evolution of cal pulses for GM1
☒
☒

4.2 - Cyclic statistics

4.2.1 - Evolution for WVS

Evolution of cal pulses for WVS
☒



P1a Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
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P1 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-4.002801	0.009399	0.001105
7	P1	-3.005478	0.008770	-0.025523
11	P1	-4.065172	0.020676	0.042795
15	P1	-6.080241	0.021524	-0.042228
19	P1	-3.288015	0.006588	-0.032459
22	P1	-4.459214	0.014947	0.001308
26	P1	-4.197002	0.103431	0.094009
30	P1	-5.802247	0.144803	-0.009473
3	P1	-16.977173	0.248930	-0.025635
7	P1	-16.709890	0.103260	-0.125724
11	P1	-16.501841	0.323304	0.078475
15	P1	-13.059750	0.095235	0.027249
19	P1	-13.930389	0.055072	-0.089554
22	P1	-15.588920	0.469601	0.073356
26	P1	-15.767164	0.304556	-0.044787
30	P1	-16.497503	0.308512	-0.066943

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-21.409805	0.087463	0.112203
7	P2	-22.380733	0.095354	0.096393
11	P2	-16.229271	0.100483	0.046228
15	P2	-7.166418	0.098842	0.021132
19	P2	-9.133606	0.091159	0.019000
22	P2	-17.938910	0.089425	-0.028547
26	P2	-16.209852	0.094352	-0.008289
30	P2	-19.646080	0.083951	-0.023522

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.194163	0.005991	0.004378
7	P3	-8.194163	0.005991	0.004378
11	P3	-8.194163	0.005991	0.004378
15	P3	-8.194163	0.005991	0.004378
19	P3	-8.194163	0.005991	0.004378
22	P3	-8.194163	0.005991	0.004378
26	P3	-8.194163	0.005991	0.004378
30	P3	-8.194164	0.005991	0.004378

4.2.2 - Evolution for GM1

Evolution of cal pulses for GM1

P1a Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
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P1 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-3.841730	3.182052	0.193064
7	P1	-2.833418	3.339890	0.258080
11	P1	-3.022229	3.362542	0.219200
15	P1	-3.666443	3.333905	0.232306
19	P1	-3.469394	3.230248	0.190175
22	P1	-5.263351	2.968455	0.172467
26	P1	-5.952545	3.154717	0.374617
30	P1	-5.291157	3.002815	0.240289
3	P1	-11.640360	2.090359	0.173830
7	P1	-10.037526	2.315871	0.156382
11	P1	-10.334393	2.307358	0.084504
15	P1	-10.877972	2.316124	0.106089
19	P1	-15.470273	1.703602	0.104532
22	P1	-20.313589	2.326359	0.144405

26	P1	-16.324852	2.219490	0.166482
30	P1	-18.358110	1.593126	0.082464

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.107866	2.198876	0.139766
7	P2	-22.551615	2.570234	-0.013851
11	P2	-11.279621	2.387599	0.155207
15	P2	-4.916870	3.102364	0.204588
19	P2	-6.925808	2.792313	0.193786
22	P2	-8.214374	2.619432	0.150062
26	P2	-23.892868	2.634151	-0.189453
30	P2	-22.035528	2.487344	-0.101027

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.023436	0.002470	0.011104
7	P3	-8.023448	0.002467	0.011139
11	P3	-8.023444	0.002476	0.011141
15	P3	-8.023558	0.002469	0.010823
19	P3	-8.023439	0.002479	0.011054
22	P3	-8.023555	0.002469	0.010774
26	P3	-8.023525	0.002468	0.011197
30	P3	-8.023390	0.002470	0.011258

4.3 - cal pulses monitoring (all rows)

4.3.1 - Evolution for WVS



4.3.2 - Evolution for GM1



5 - RAW data statistics

No anomalies observed.

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000554561
	stdev	1.76540e-07
MEAN Q	mean	0.000513035
	stdev	2.21801e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.138082
	stdev	0.00119565
STDEV Q	mean	0.138444
	stdev	0.00121369



5.3 - Gain imbalance I/Q



6 - Telemetry analysis

Summary of analysis for the last 3 days 2006031[345]

The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems

Filename	num_gaps	num_missing_lines
ASA_IMM_1PNPDE20060314_134140_000000372046_00010_21106_0829.N1	1	0
ASA_IMM_1PNPDE20060314_153600_000000352046_00011_21107_0830.N1	1	0
ASA_IMM_1PNPDE20060315_004510_000001932046_00016_21112_0858.N1	1	0
ASA_GM1_1PNPDK20060314_155431_000003742046_00011_21107_0319.N1	0	17
ASA_WSM_1PNPDE20060313_165856_000001292045_00499_21094_0582.N1	0	76

ASA_WSM_1PNPDE20060314_135201_000000852046_00010_21106_0704.N1	0	29
ASA_WSM_1PNPDE20060315_030808_000001832046_00018_21114_0795.N1	0	1



7 - Doppler Analysis

Preliminary report. The data is not yet controlled

7.1 - Unbiased Doppler Error for WVS

Evolution of unbiased Doppler error (Real - Expected)
<input type="checkbox"/>
Ascending
<input checked="" type="checkbox"/>
Descending

7.2 - Absolute Doppler for WVS

Evolution of Absolute Doppler
<input type="checkbox"/>
Ascending
<input checked="" type="checkbox"/>
Descending

7.3 - Doppler evolution versus ANX for WVS

Evolution Doppler error versus ANX
<input checked="" type="checkbox"/>

7.4 - Unbiased Doppler Error for GM1

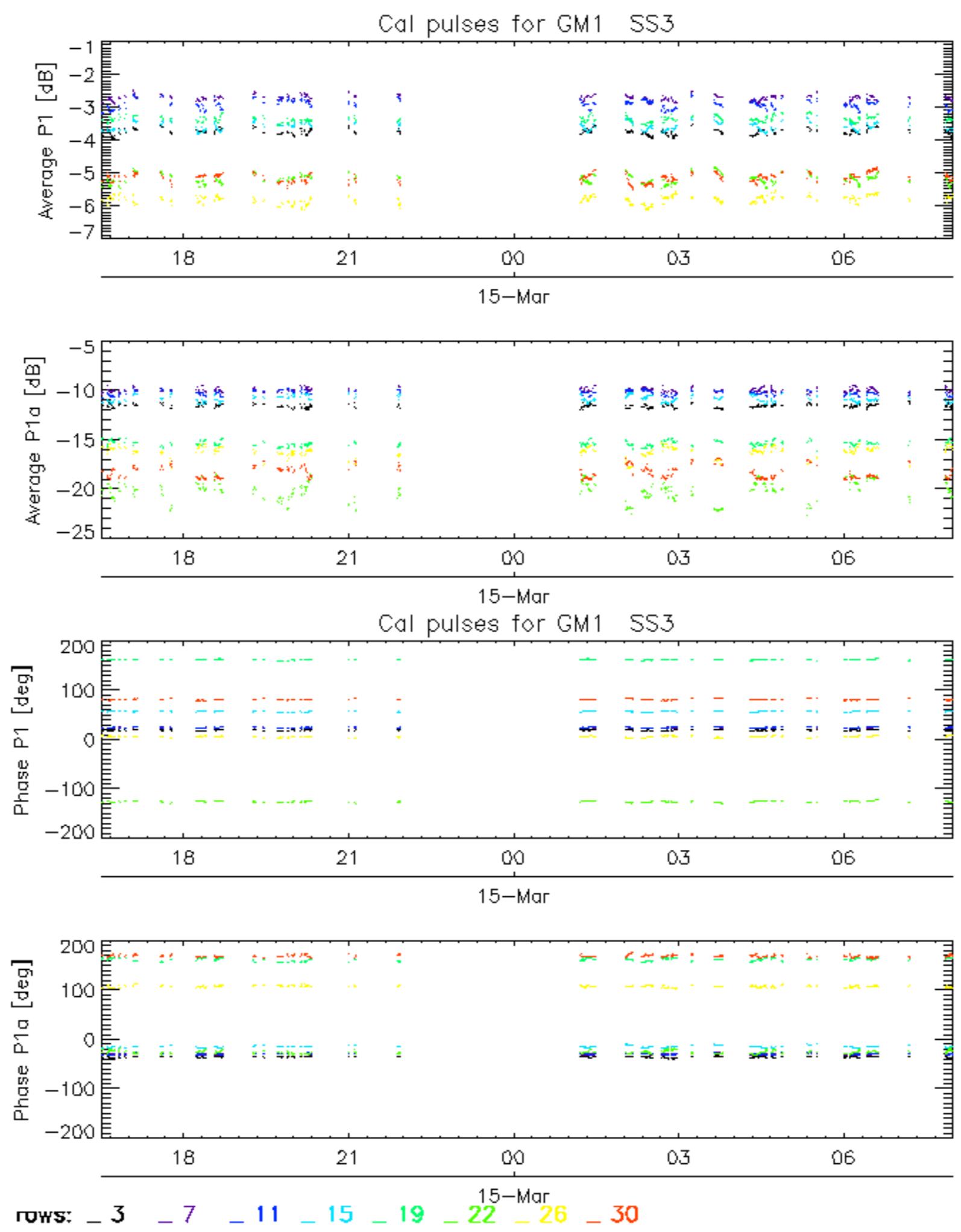
Evolution of unbiased Doppler error (Real - Expected)
<input checked="" type="checkbox"/>
Ascending
<input checked="" type="checkbox"/>
Descending

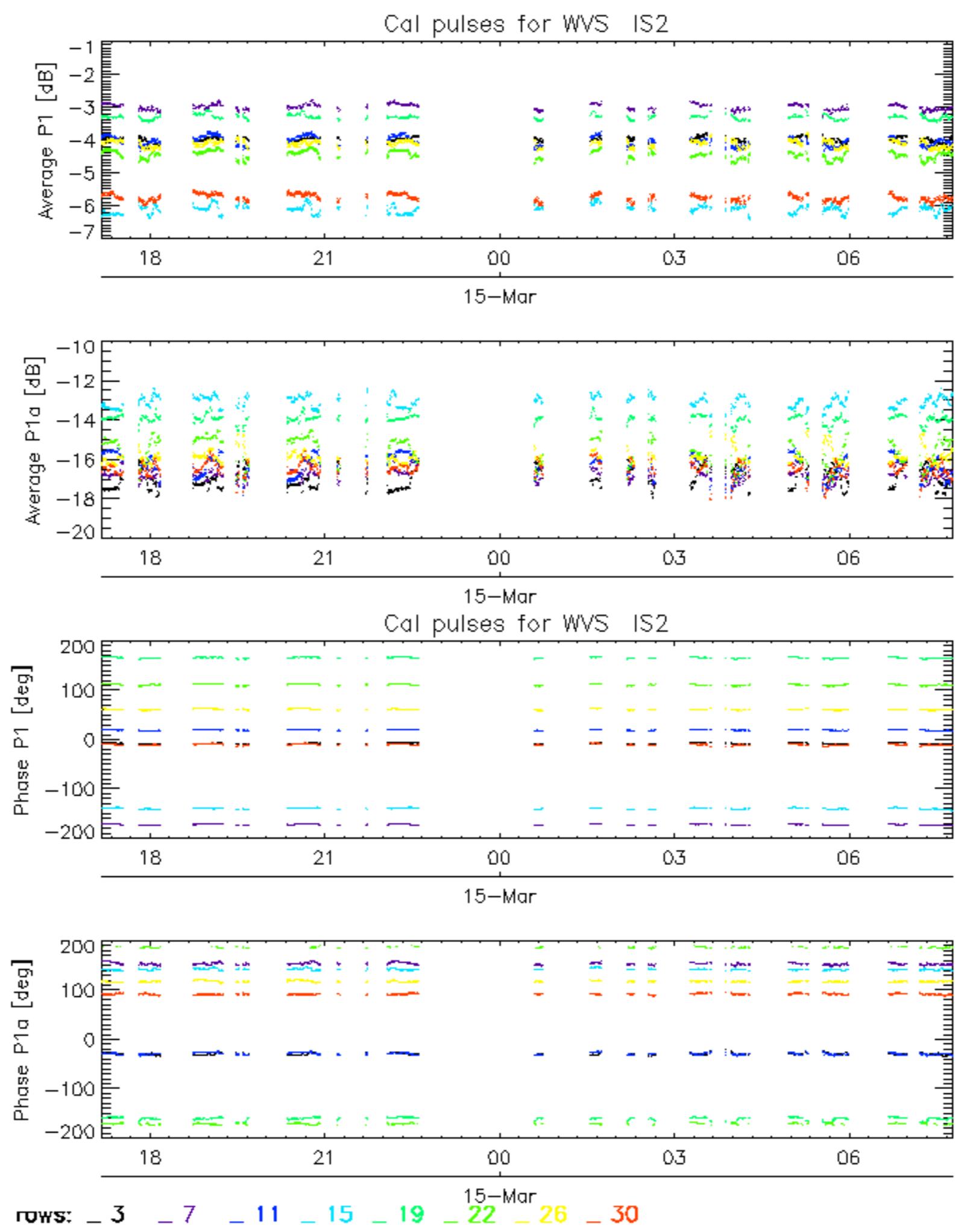
7.5 - Absolute Doppler for GM1

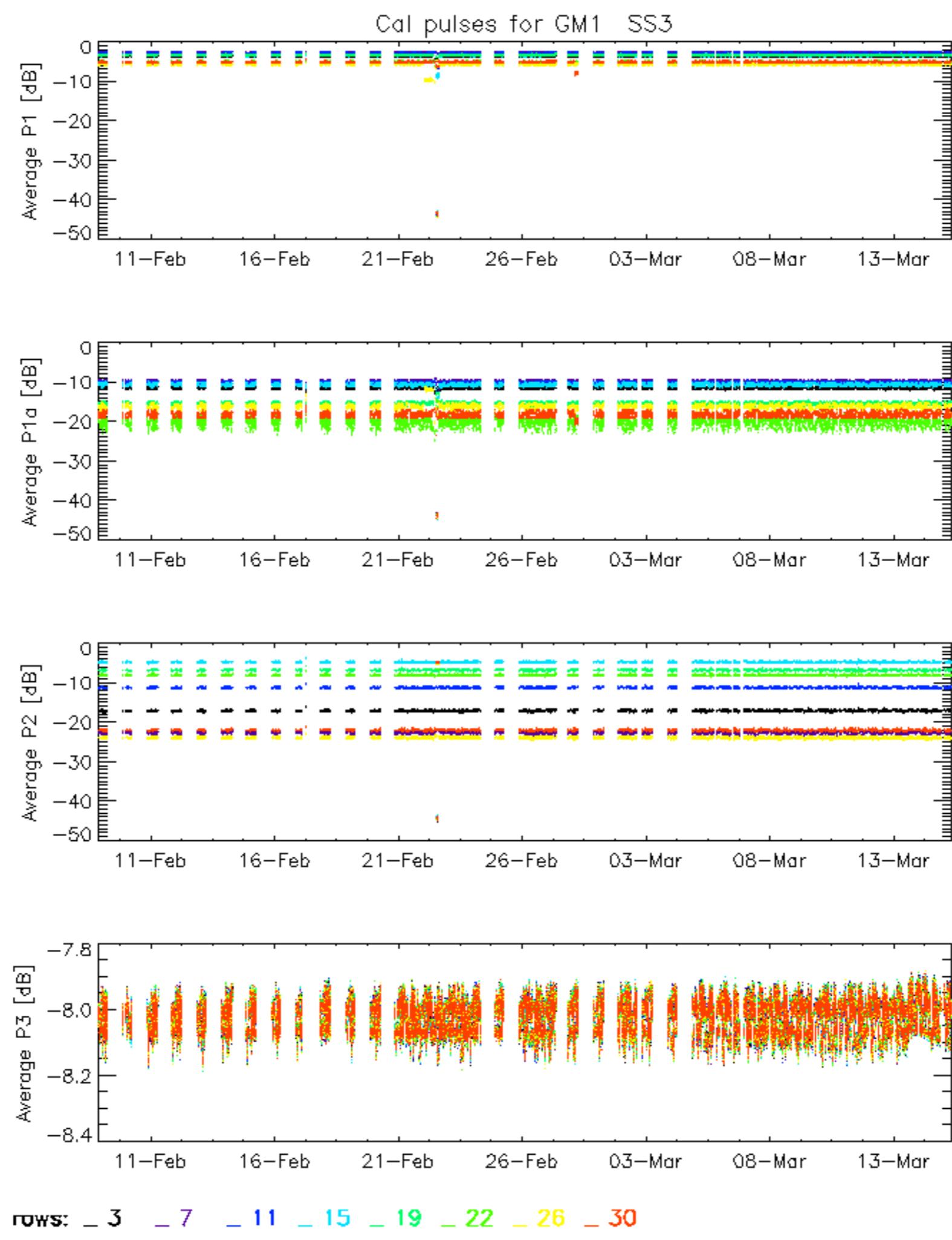
Evolution of Absolute Doppler
<input checked="" type="checkbox"/>
Ascending
<input checked="" type="checkbox"/>
Descending

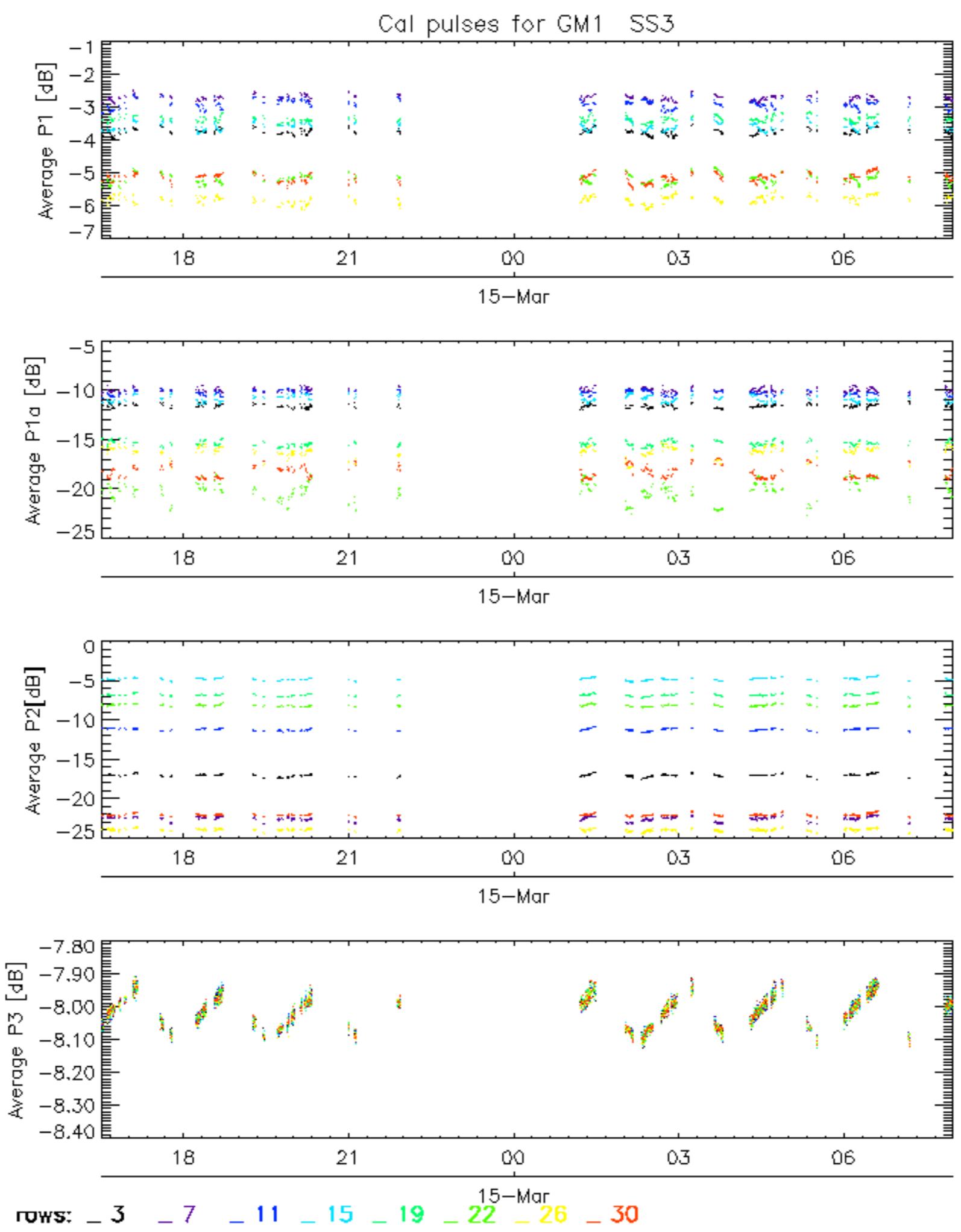
7.6 - Doppler evolution versus ANX for GM1

Evolution Doppler error versus ANX
<input checked="" type="checkbox"/>

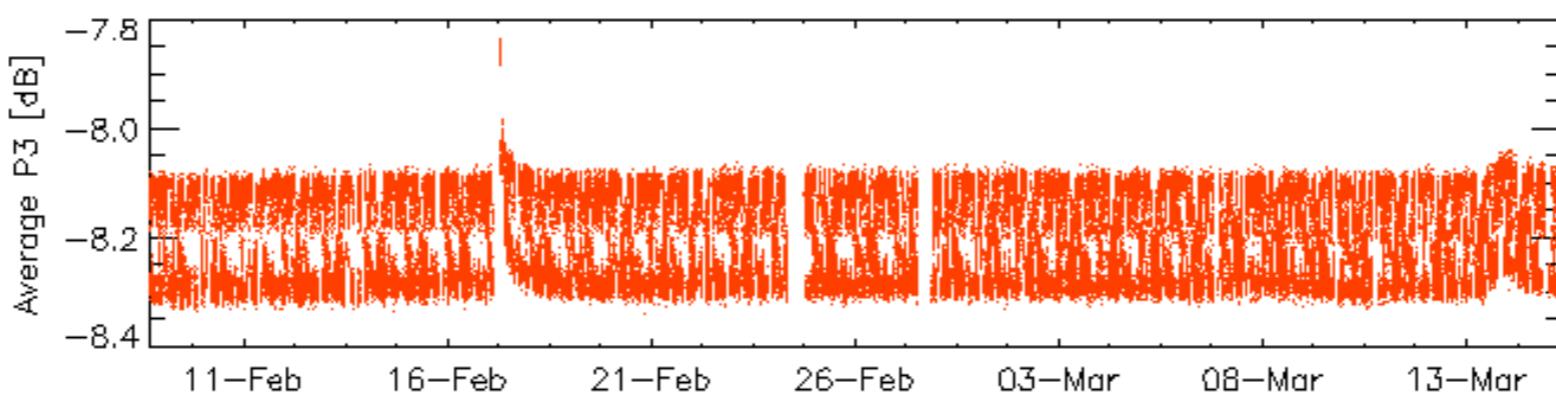
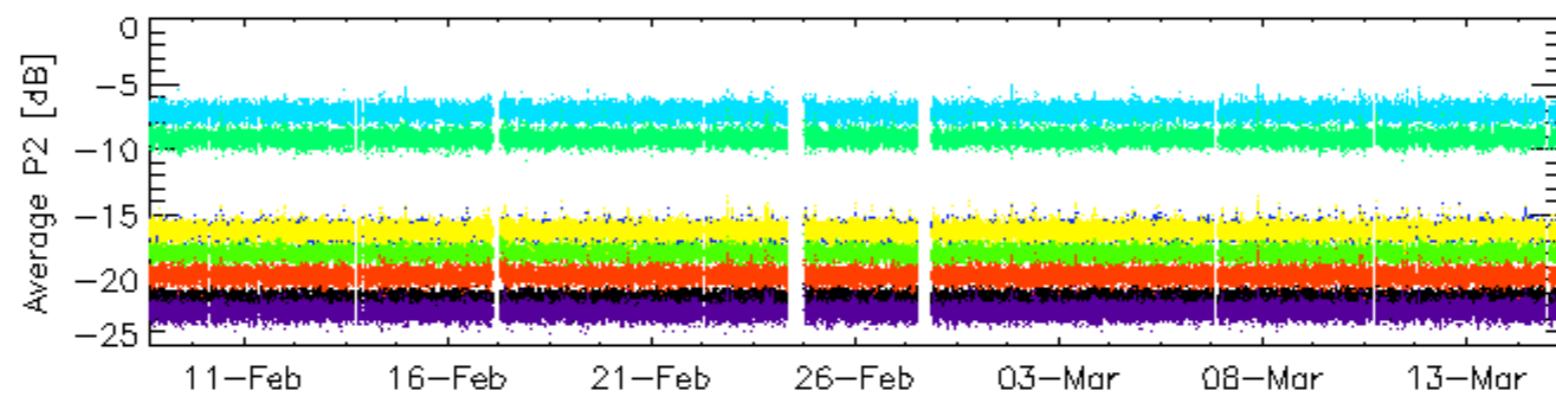
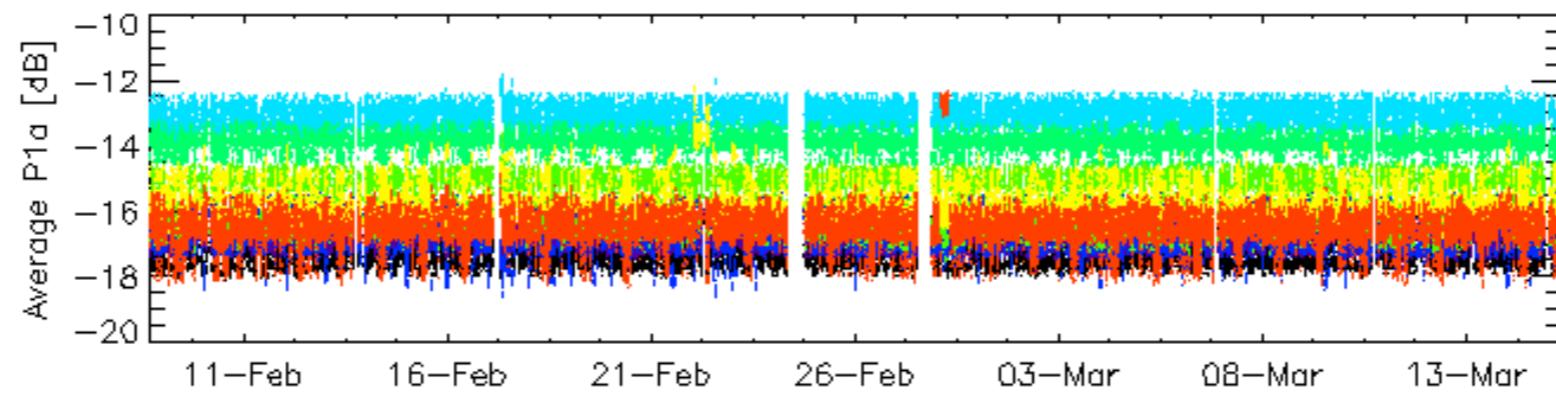
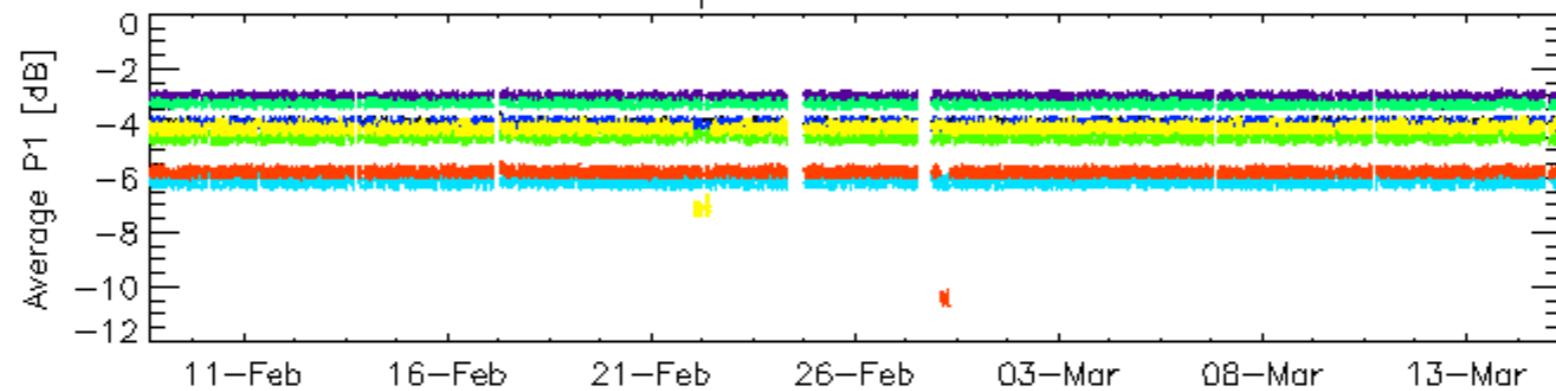




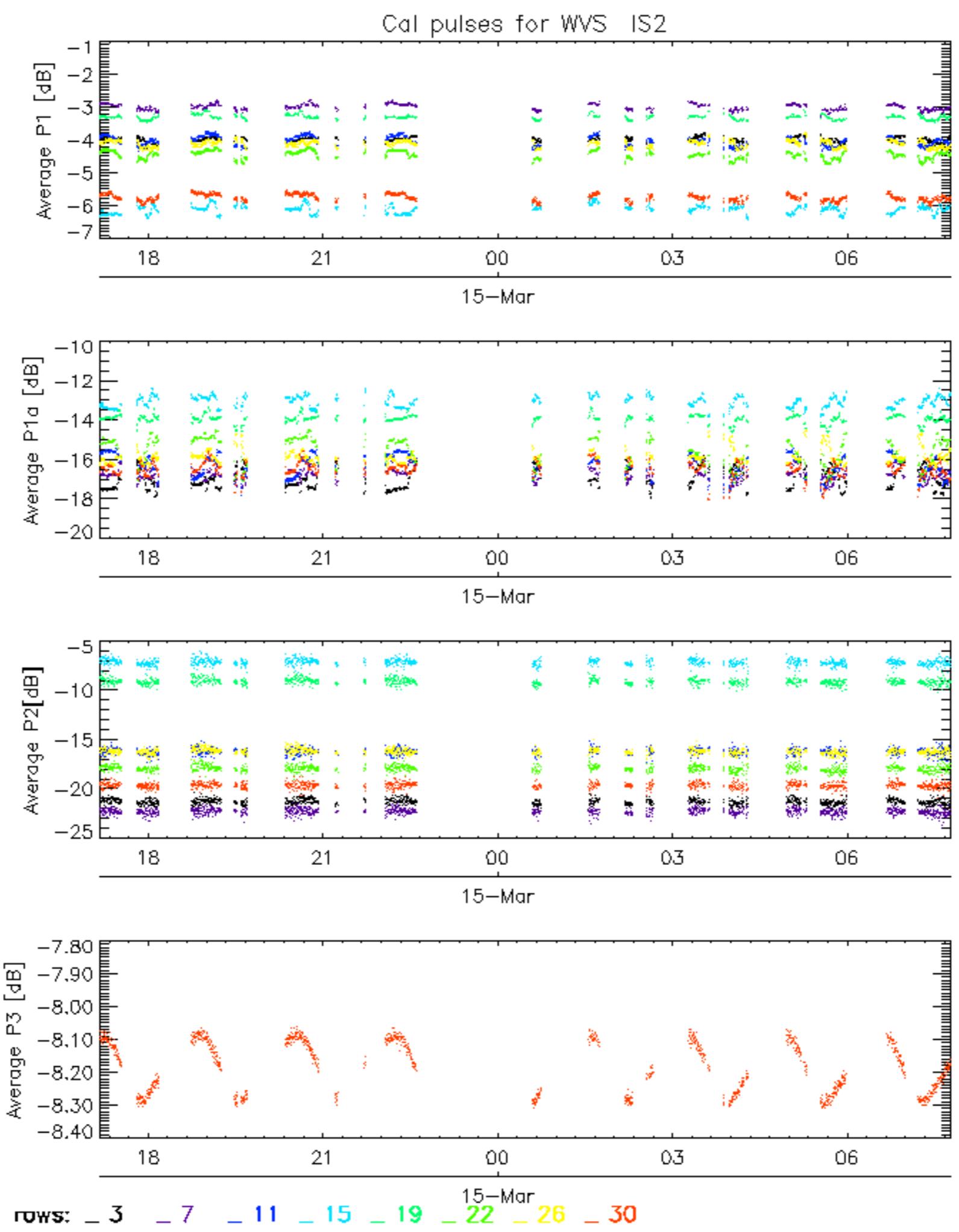




Cal pulses for WVS IS2



ROWS: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 26 _ 30

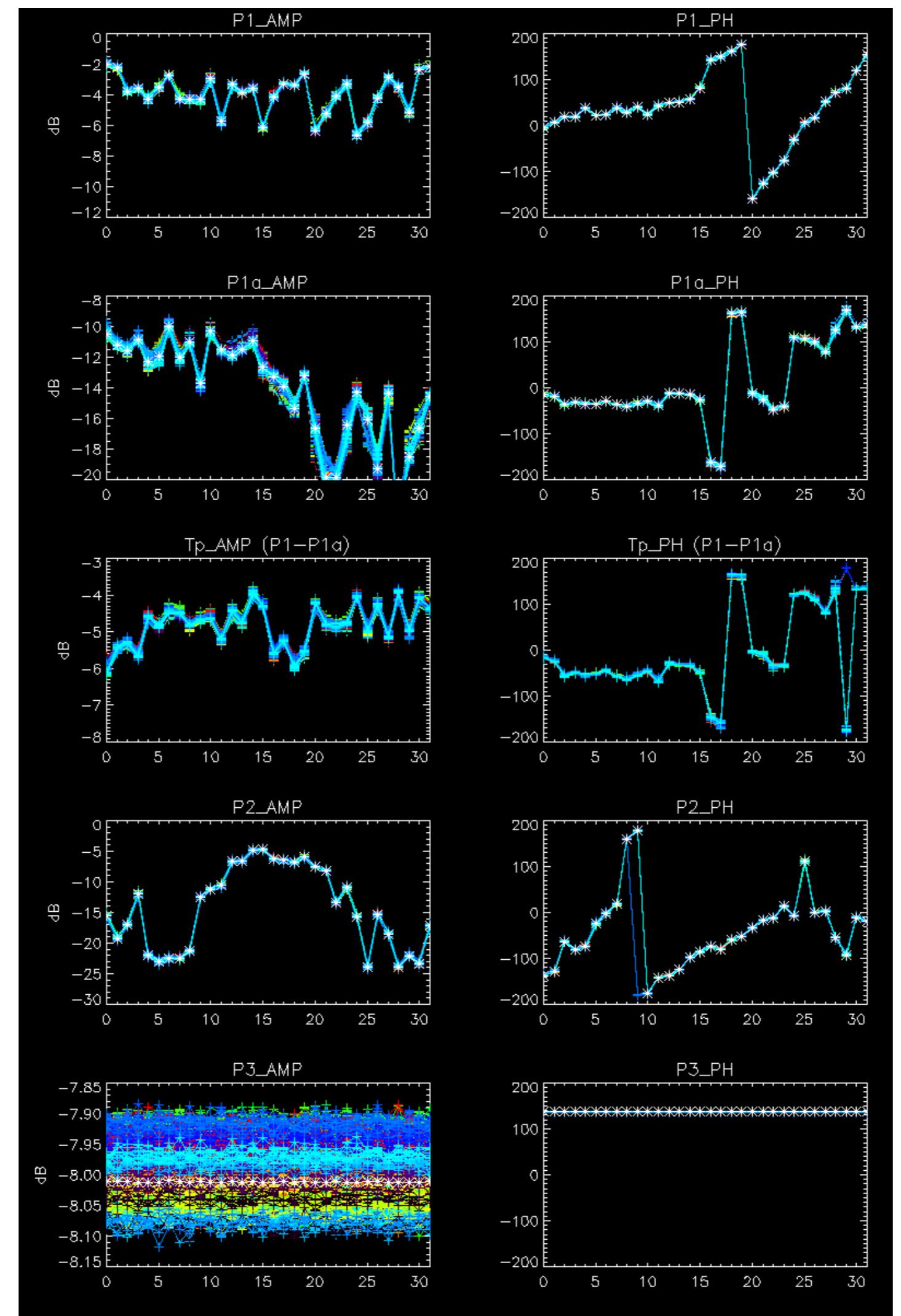


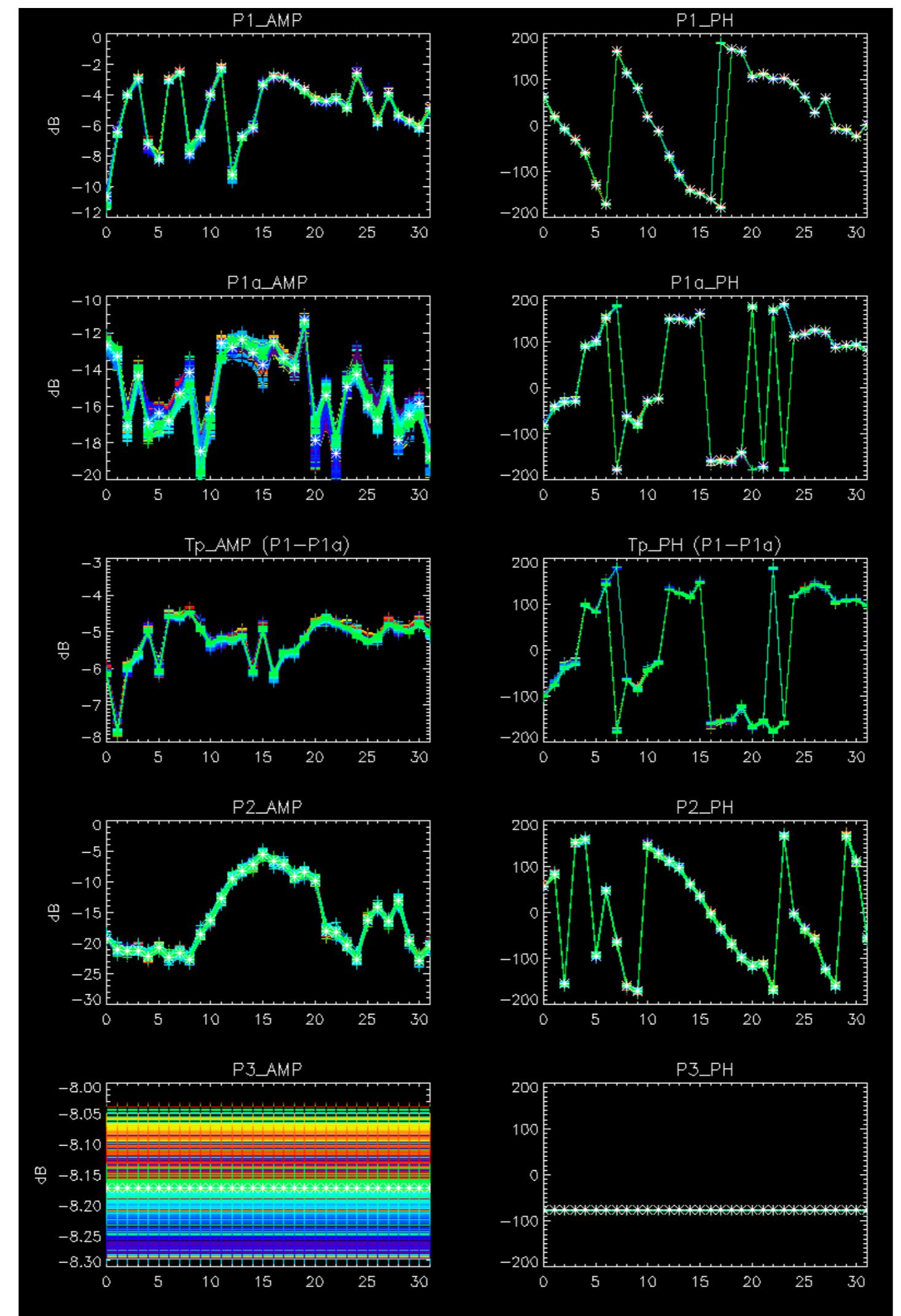
No anomalies observed on available browse products



No anomalies observed.

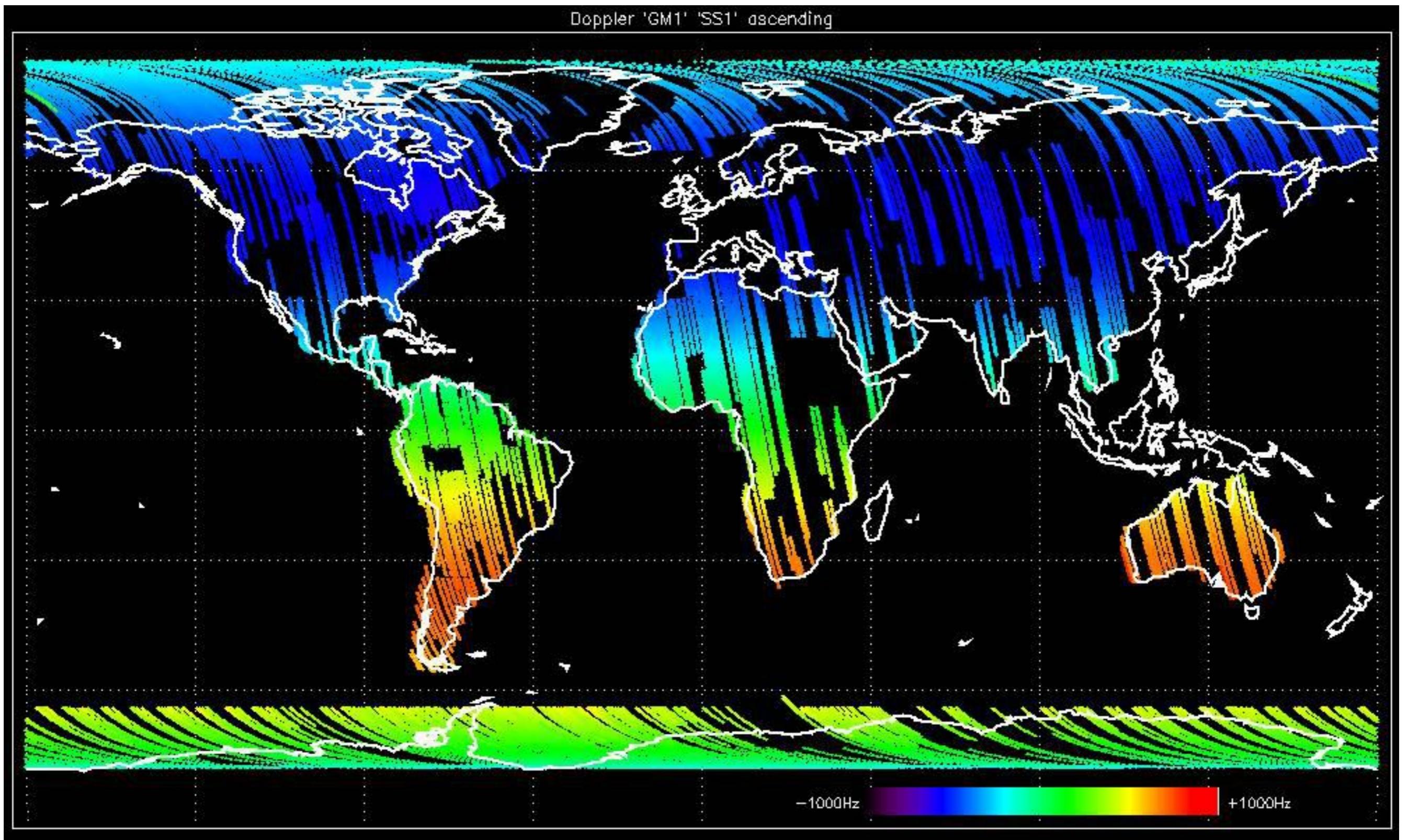


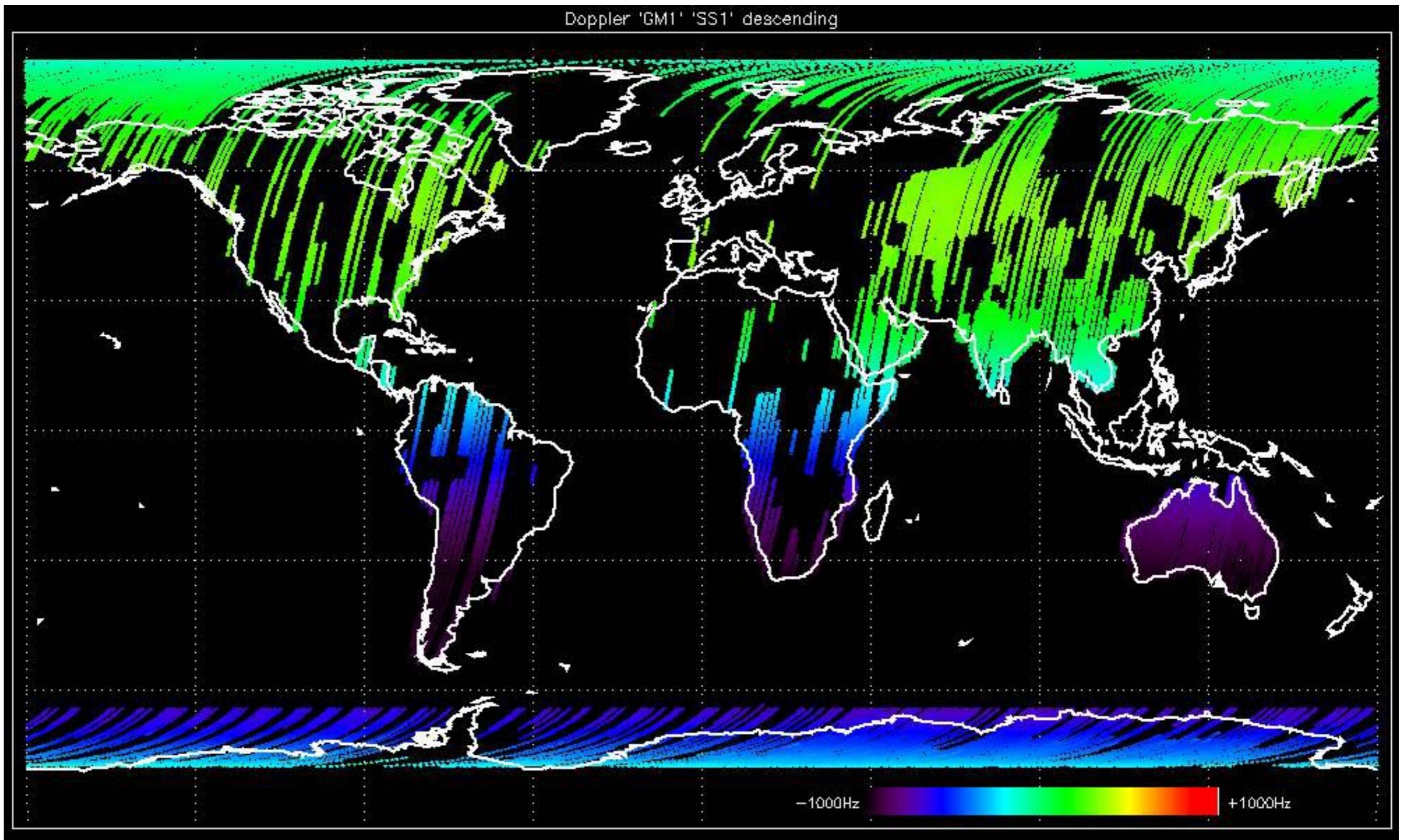


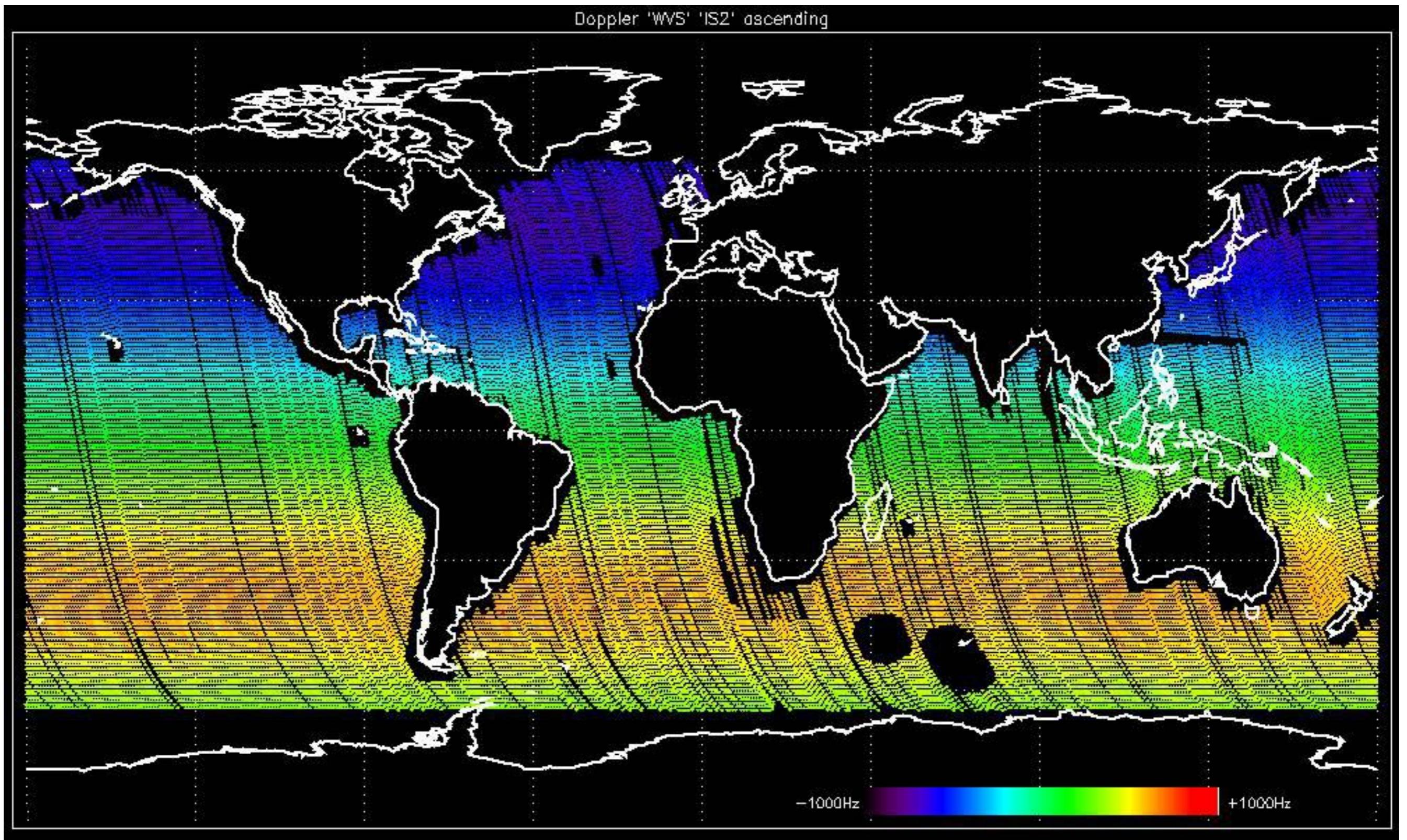


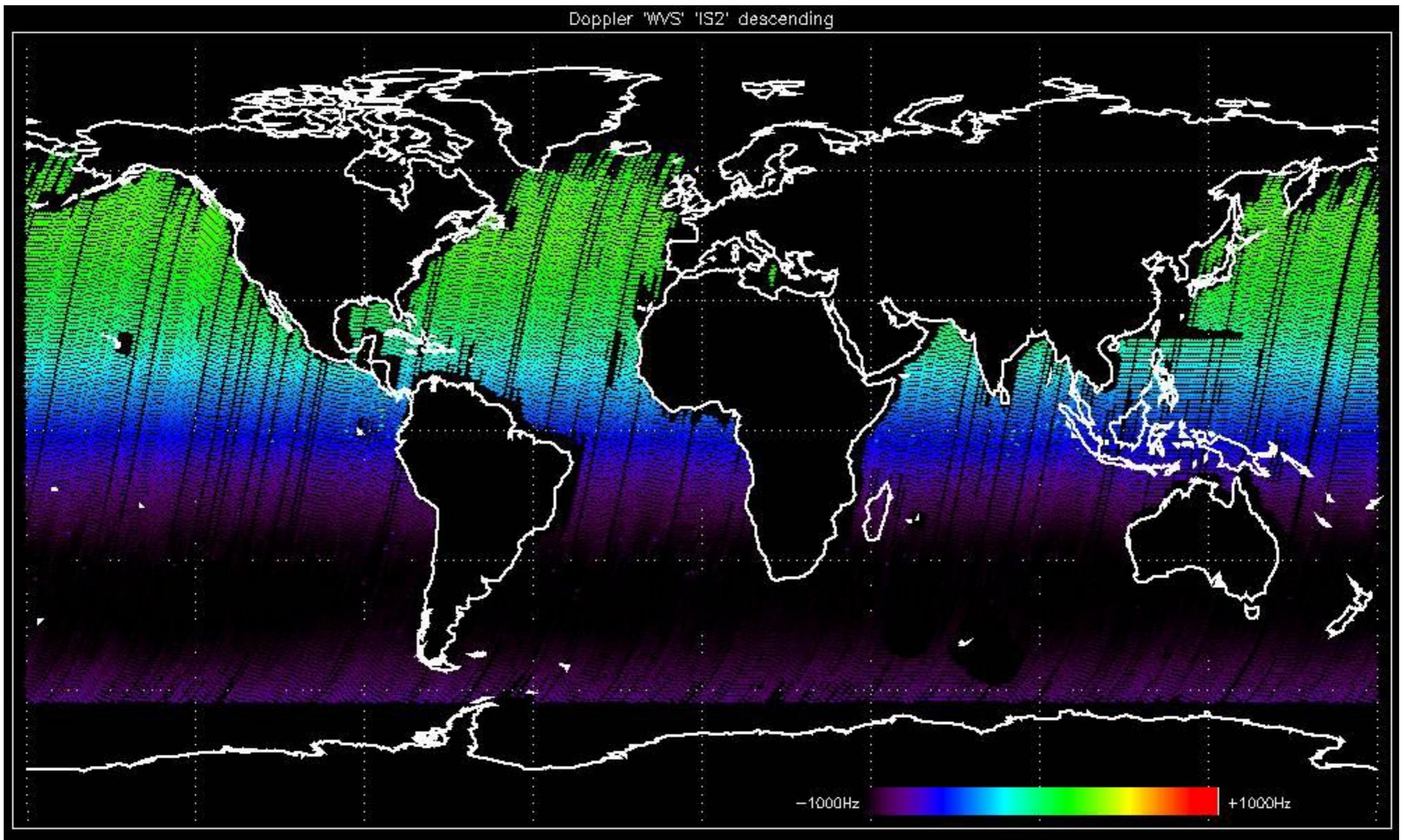
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

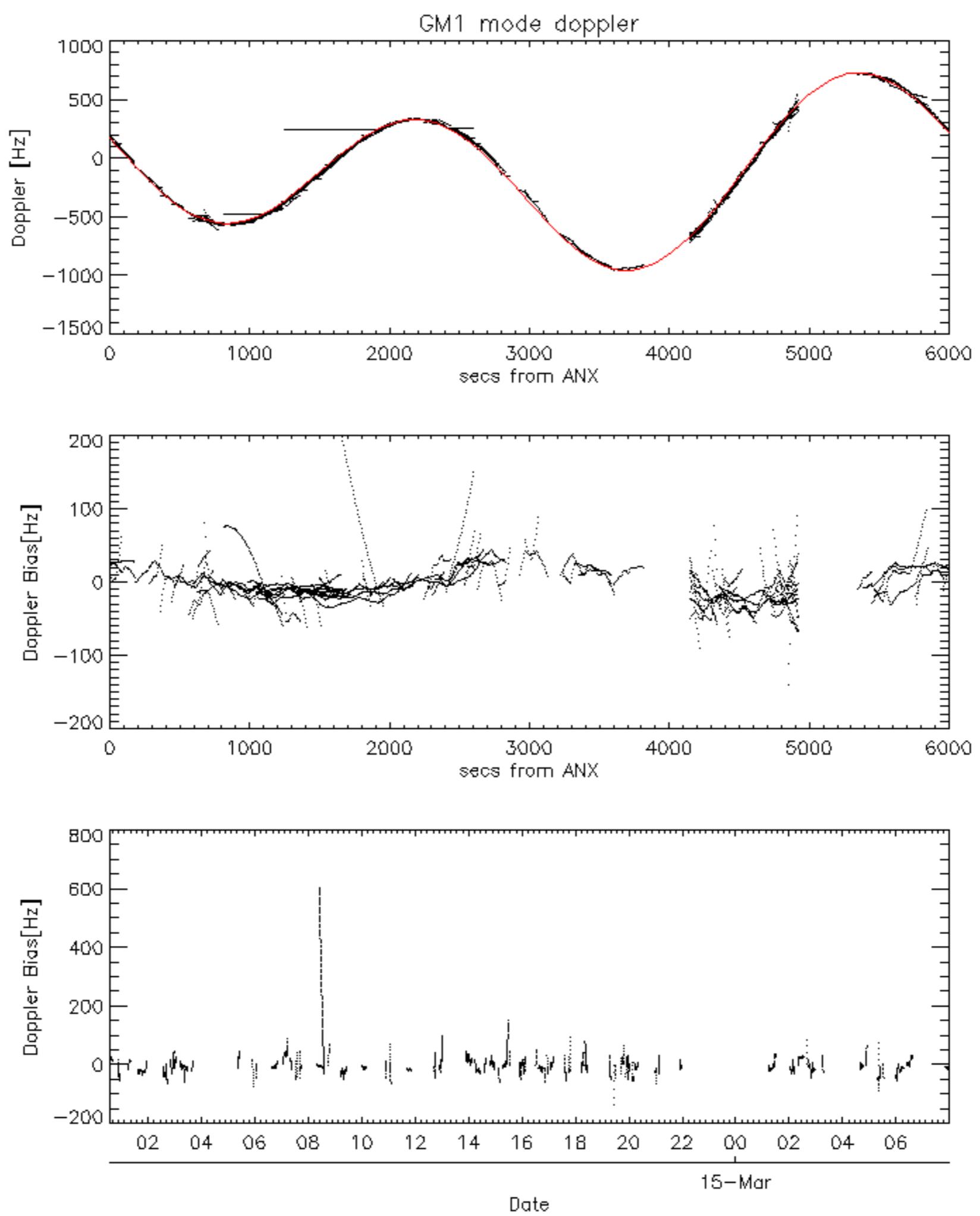


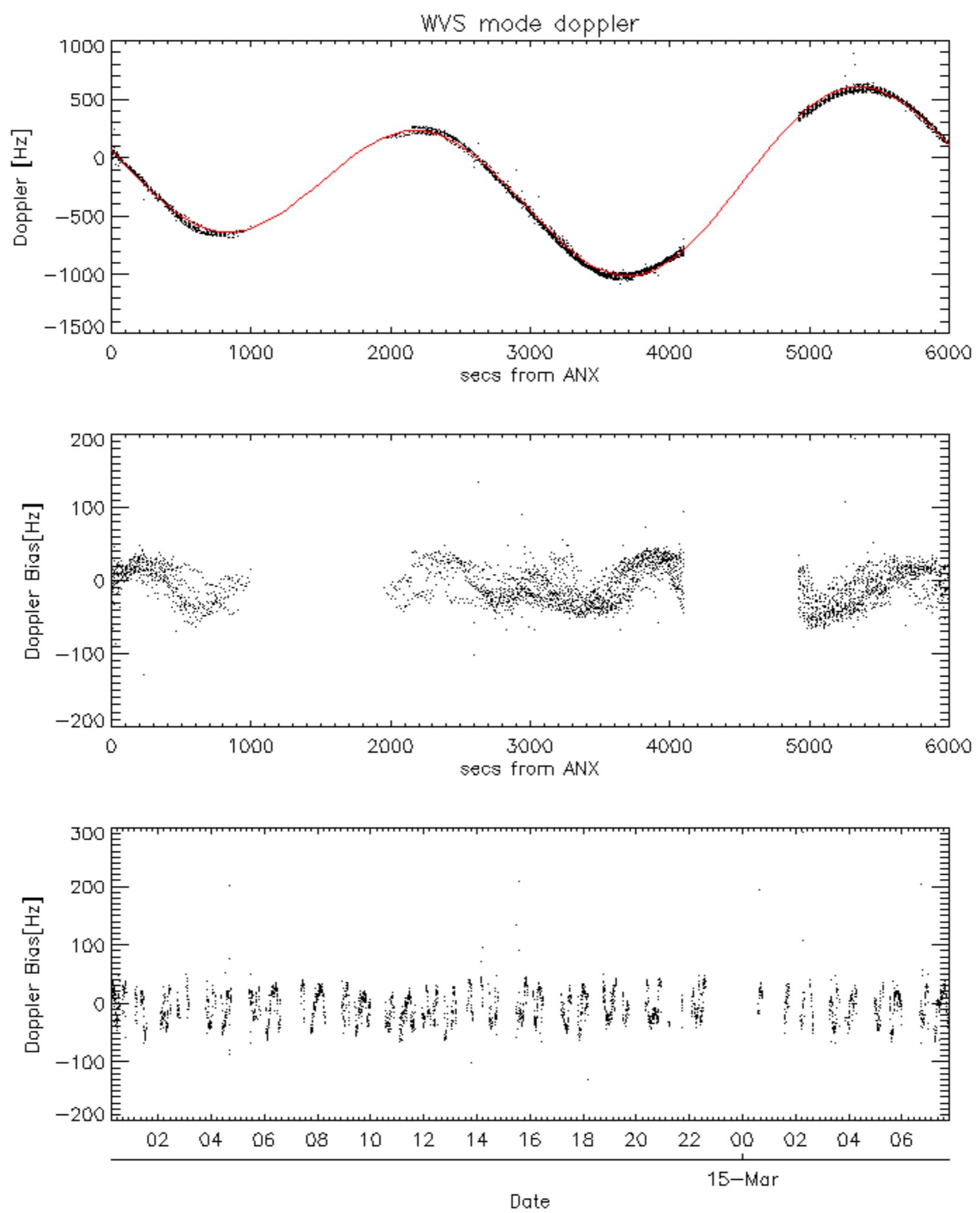


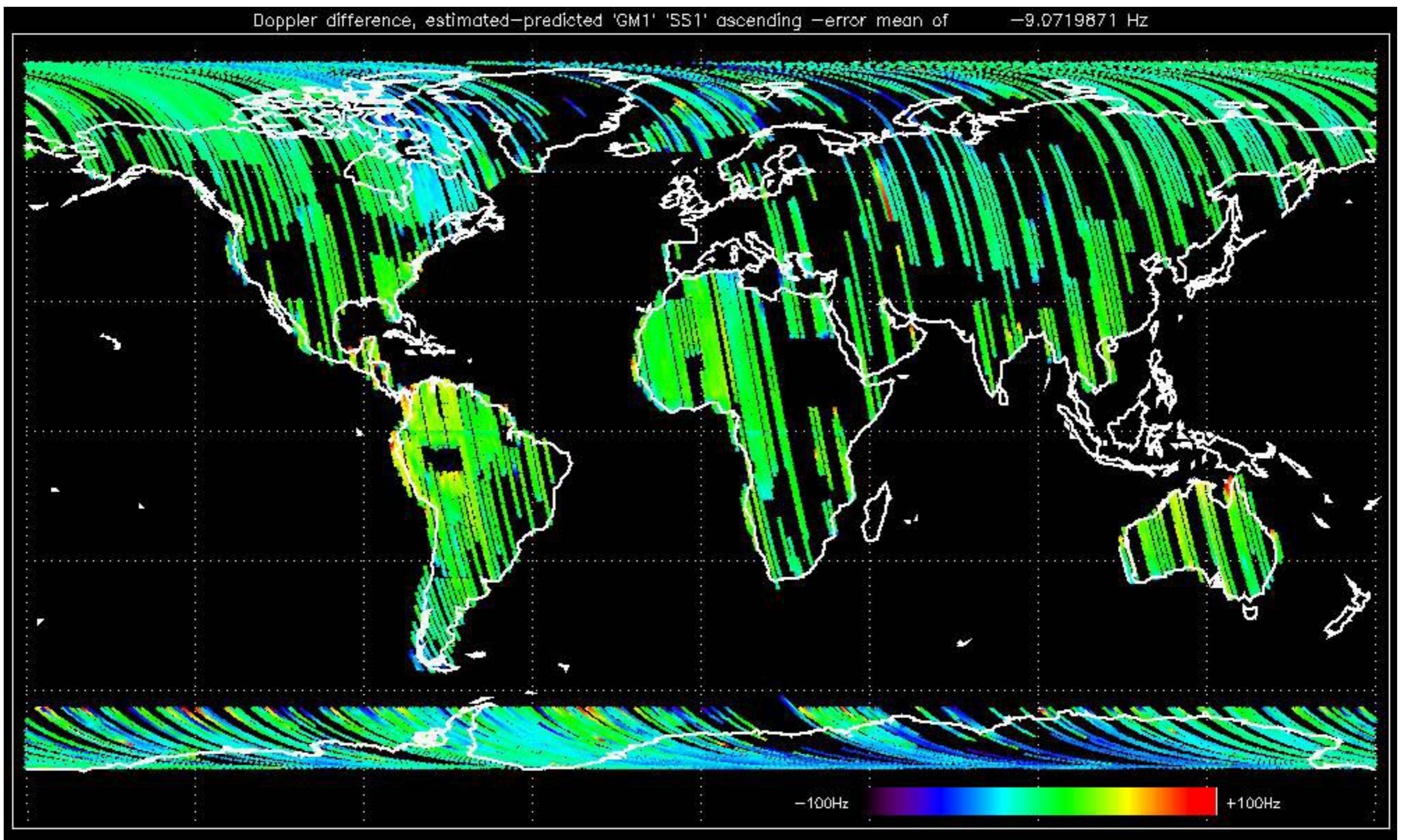


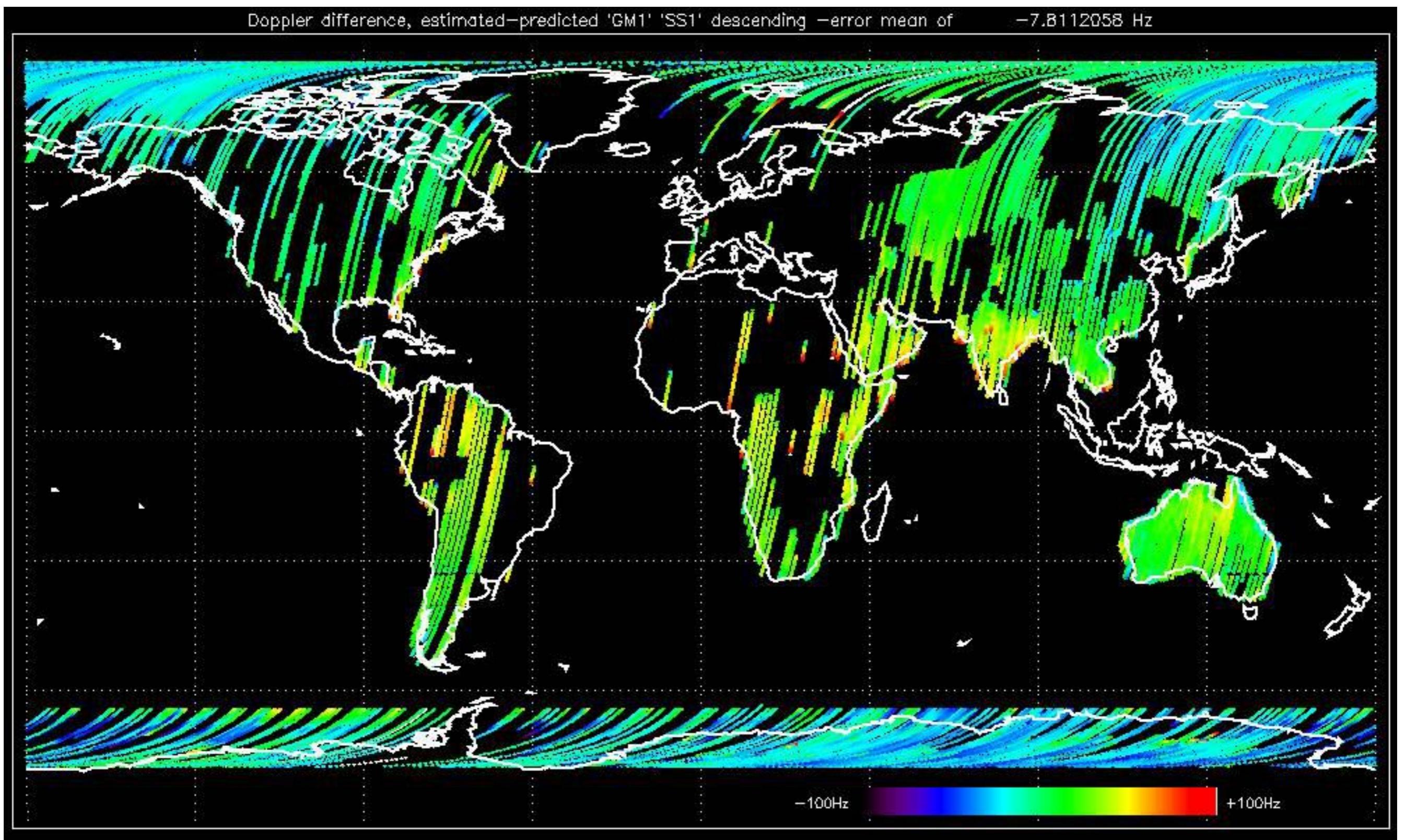


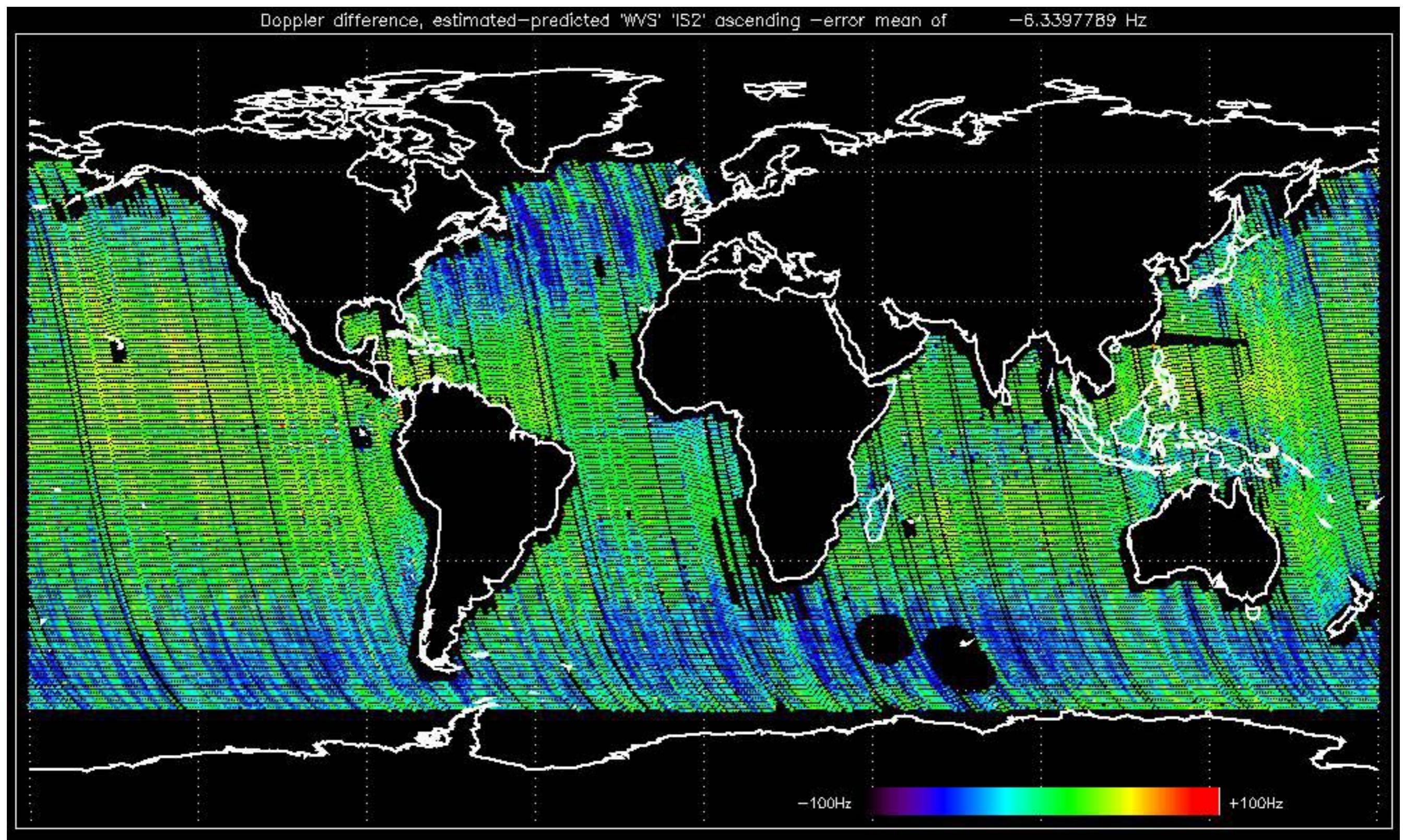


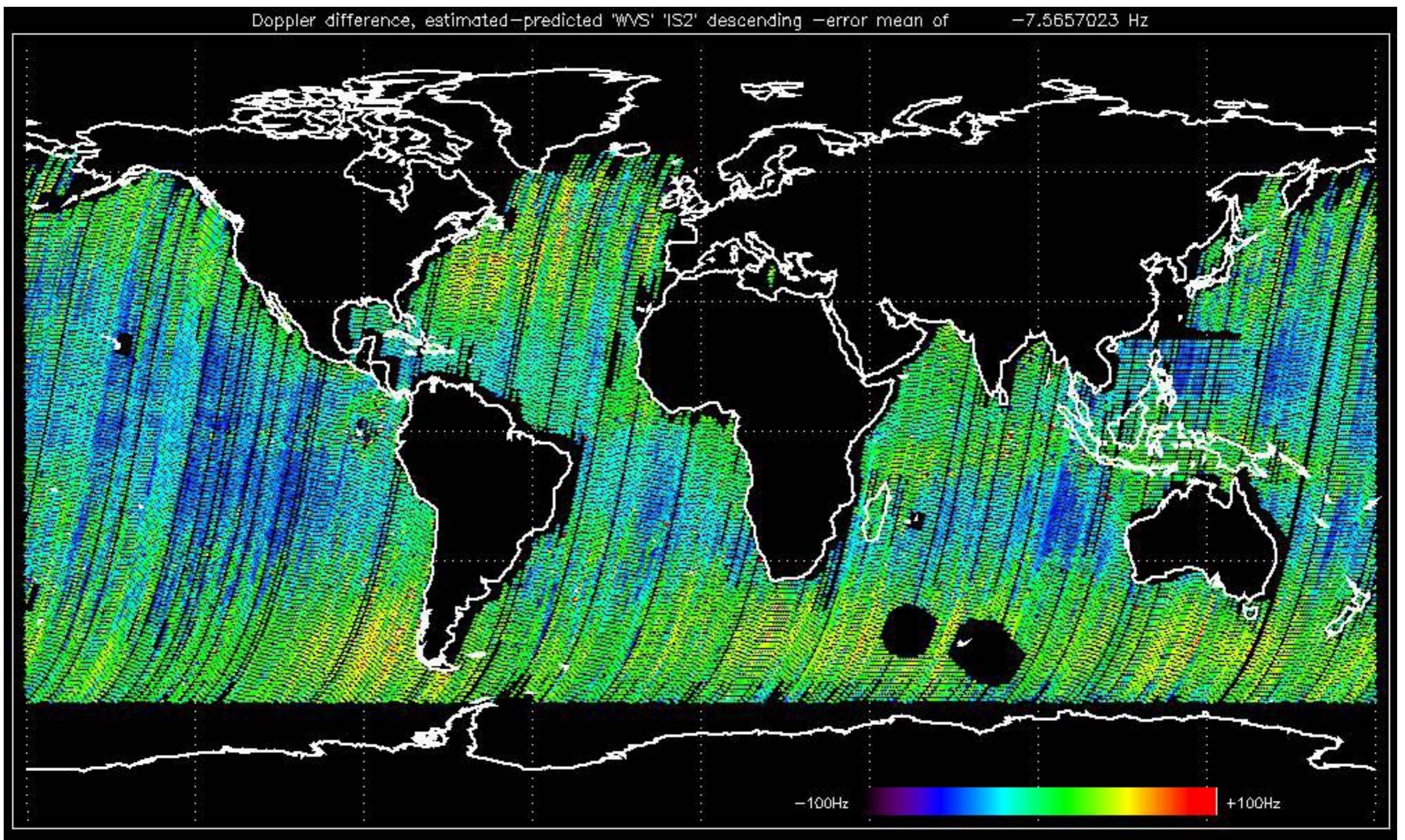












No anomalies observed on available MS products:



No anomalies observed.

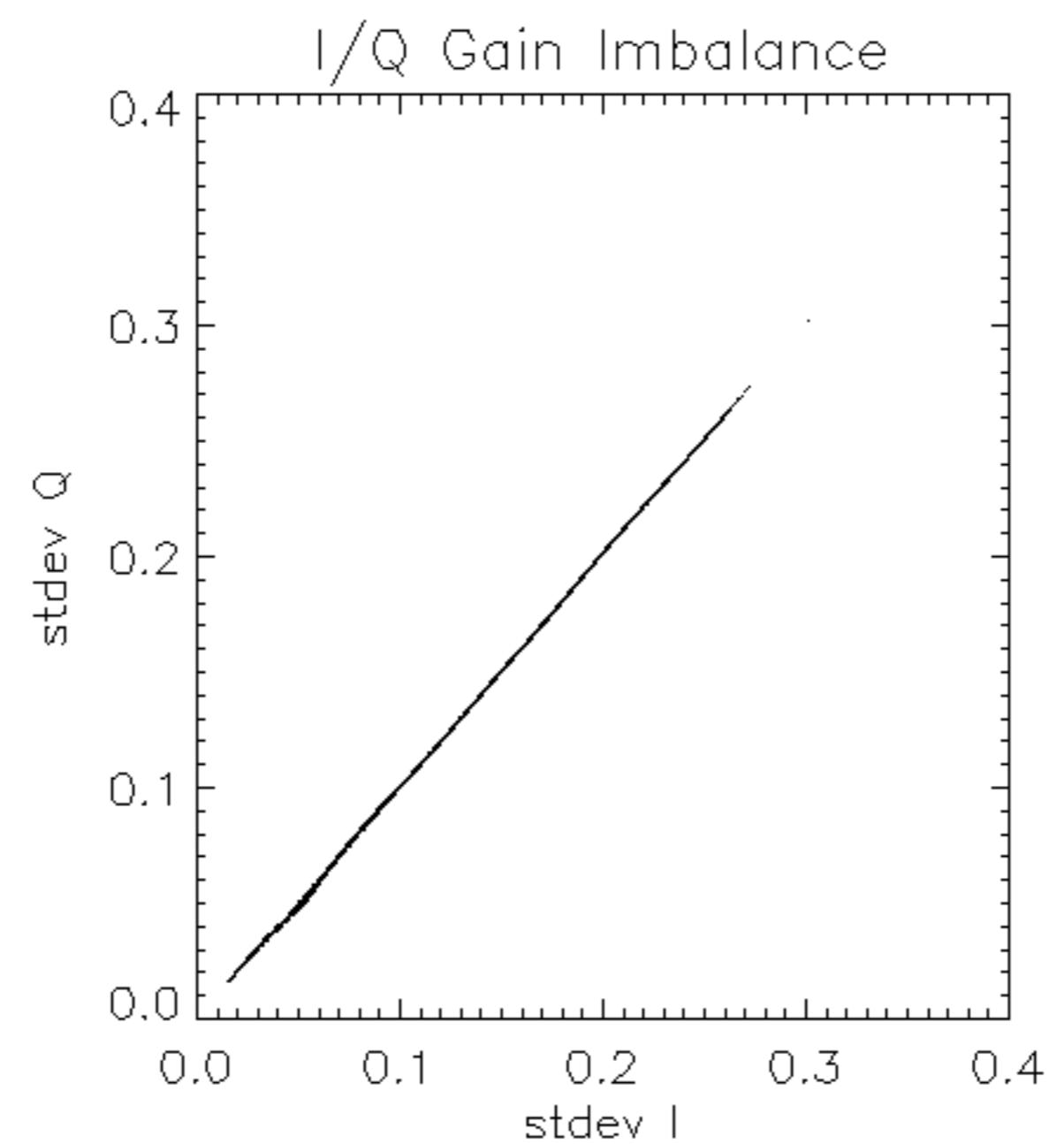


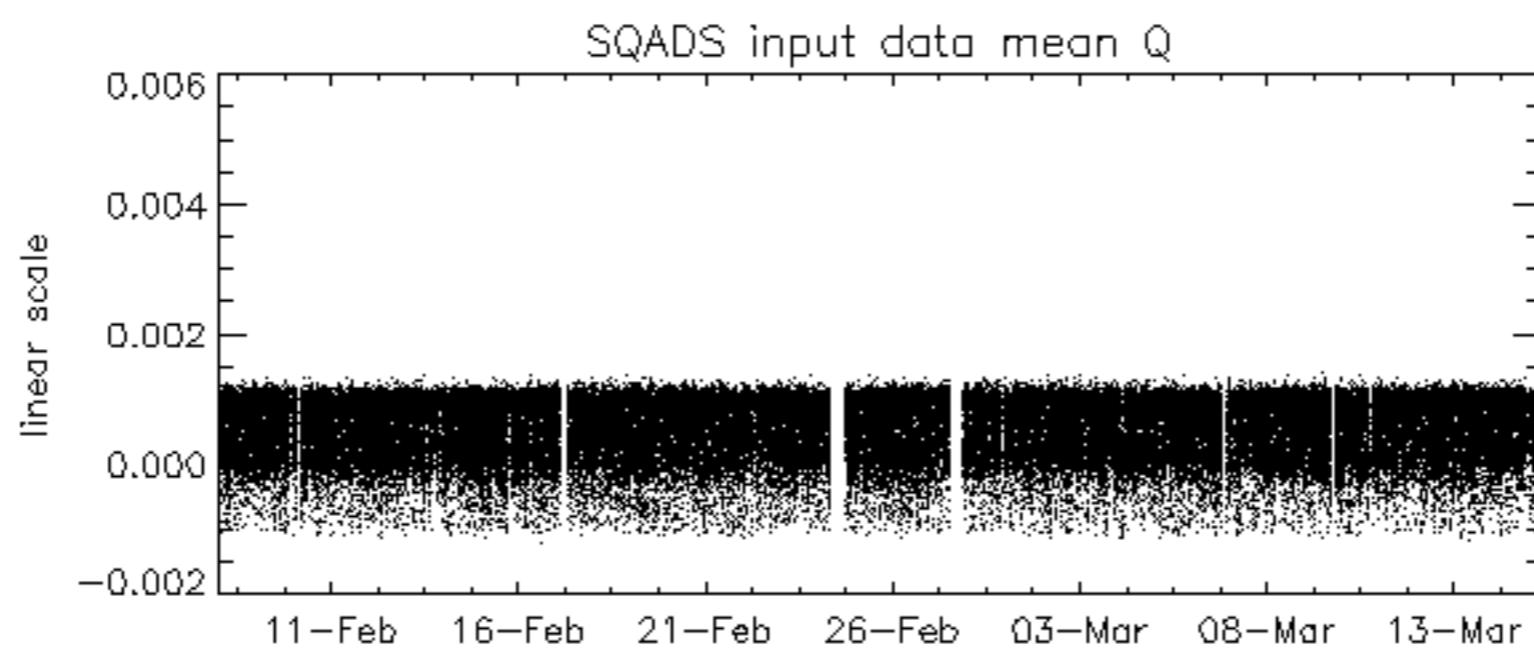
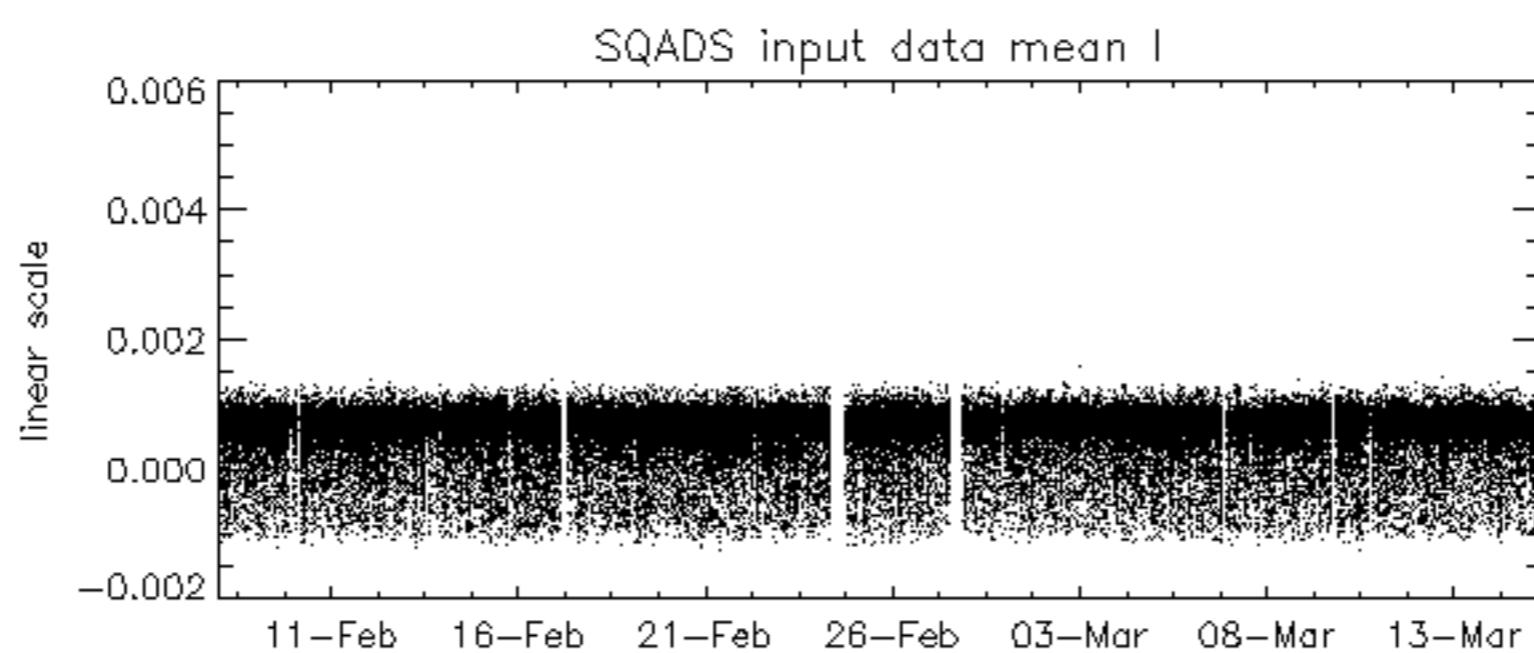
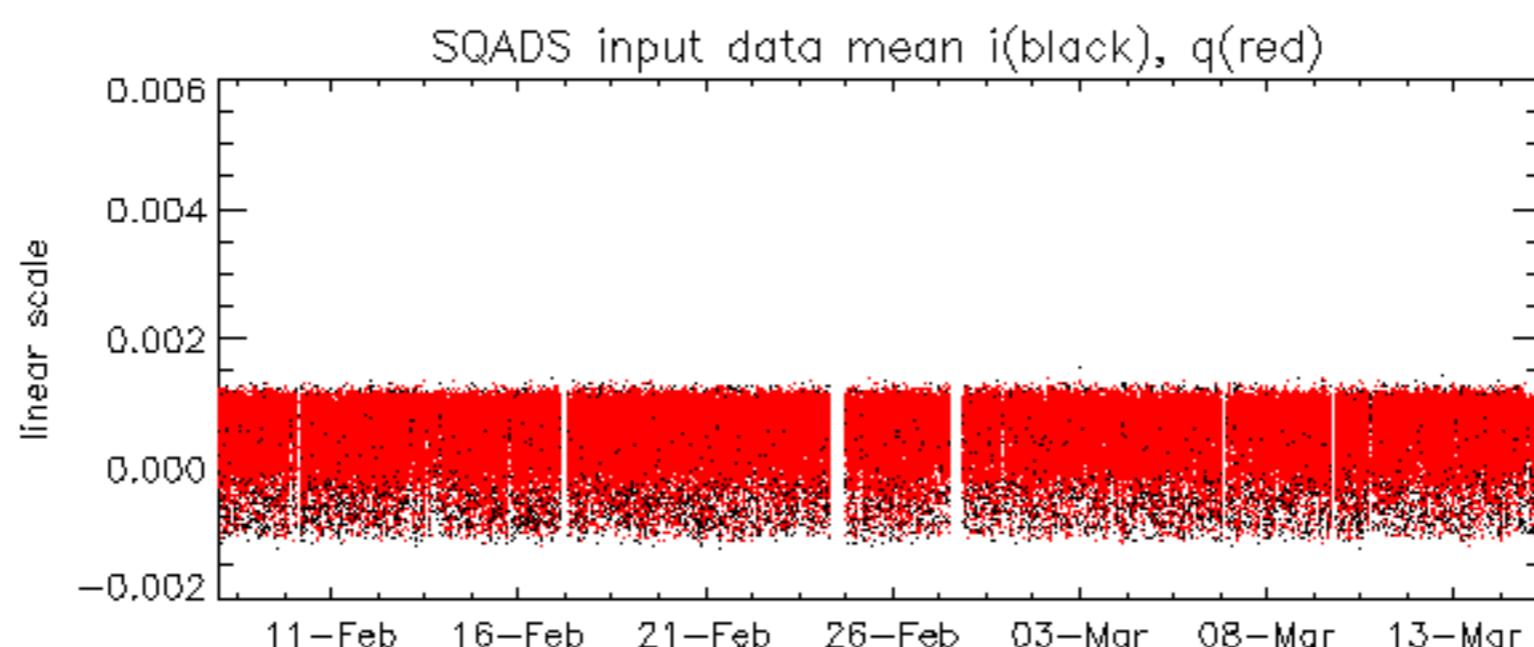
Reference: 2001-02-09 13:50:42 H RxGain

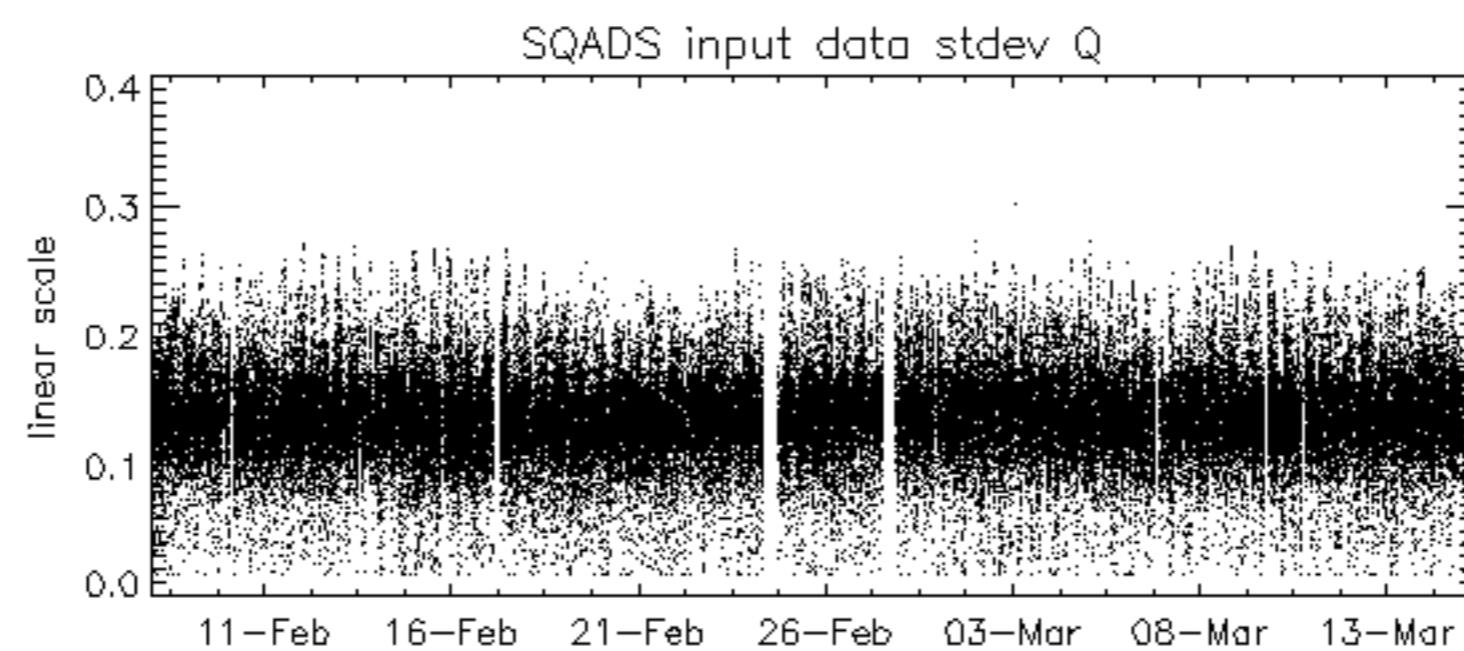
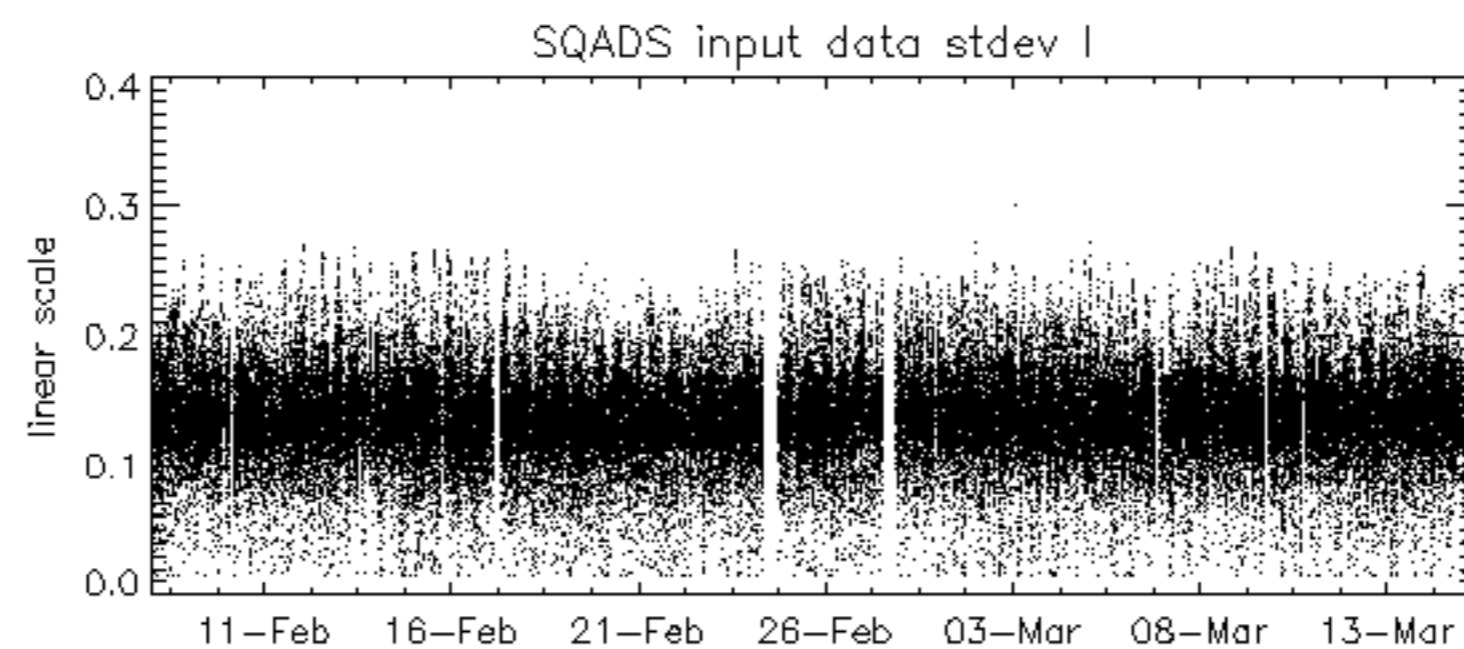
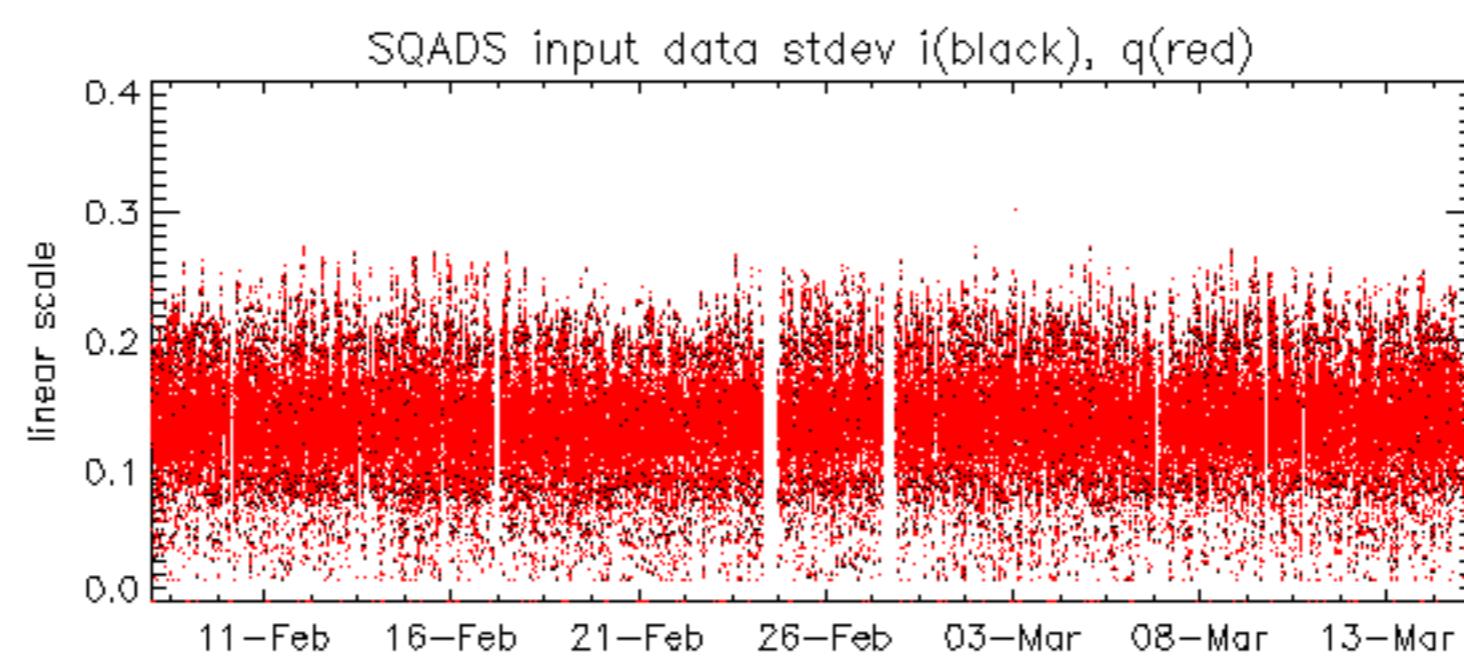
Test : 2006-03-14 17:33:30 H

Reference:	2005-10-08 03:02:47 H	RxGain
Test	: 2006-03-14 17:33:30 H	
		1
		2
		3
		4
		5
		6
		7
A1	A3	B1
B3	C1	C3
D1	D3	E1
E3		8
		9
		10
		11
		12
		13
		14
		15
		16
		17
		18
		19
		20
		21
		22
		23
A2	A4	B2
B4	C2	C4
D2	D4	E2
E4		24
		25
		26
		27
		28
		29
		30
		31
		32

Reference:	2001-02-09 14:08:23 V	RxPhase
Test	: 2006-03-13 18:05:07 V	
		1
		2
		3
		4
		5
		6
		7
A1	A3	B1
		B3
		C1
		C3
		D1
		D3
		E1
		E3
		8
		9
		10
		11
		12
		13
		14
		15
		16
		17
		18
		19
		20
		21
		22
		23
A2	A4	B2
		B4
		C2
		C4
		D2
		D4
		E2
		E4
		24
		25
		26
		27
		28
		29
		30
		31
		32







Reference:	2001-02-09 13:50:42 H	TxGain
Test	: 2006-03-14 17:33:30 H	
		1
		2
		3
		4
		5
		6
		7
A1	A3	B1
B3	C1	C3
D1	D3	E1
		E3
		8
		9
		10
		11
		12
		13
		14
		15
		16
		17
		18
		19
		20
		21
		22
		23
A2	A4	B2
B4	C2	C4
D2	D4	E2
		E4
		24
		25
		26
		27
		28
		29
		30
		31
		32

Reference: 2005-10-08 03:02:47 H

Test : 2006-03-14 17:33:30 H

Reference: 2001-02-09 14:08:23 V TxGain

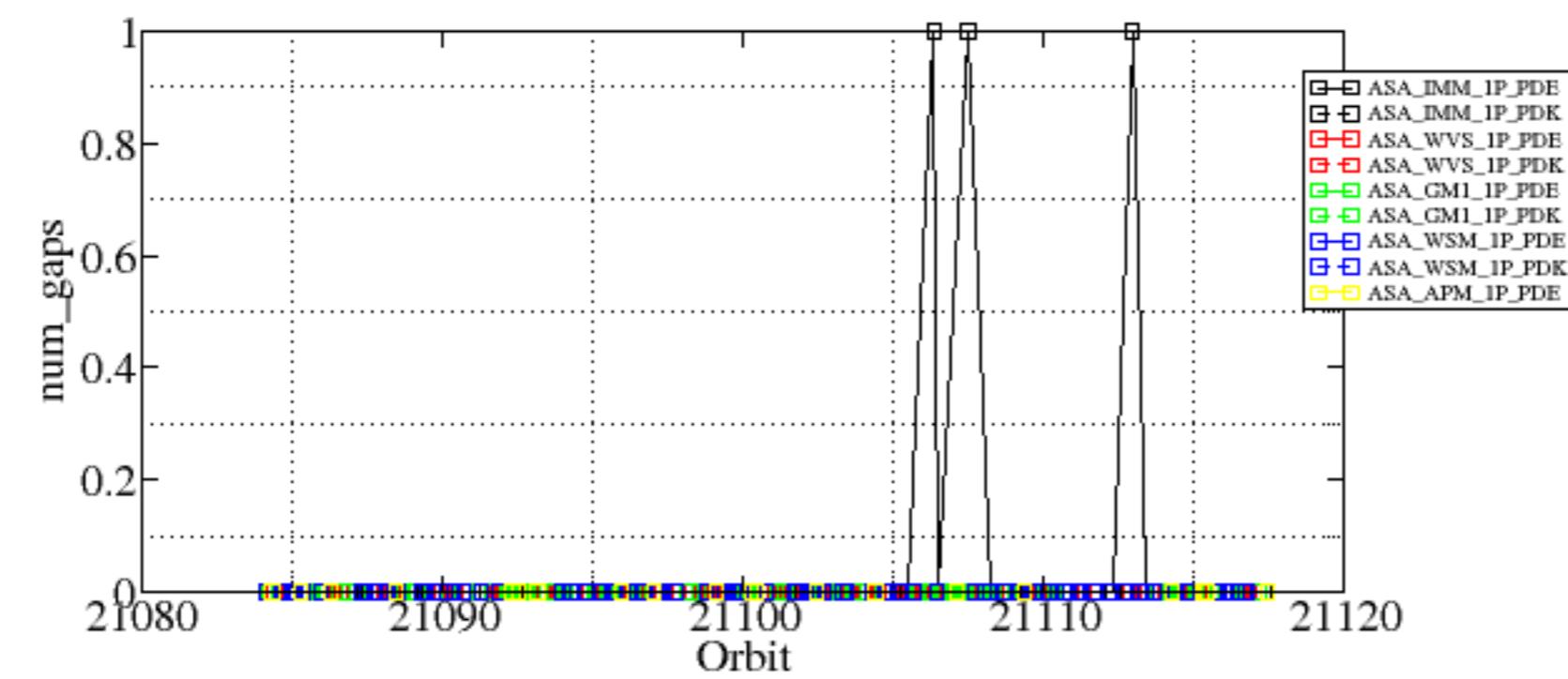
Test : 2006-03-13 18:05:07 V

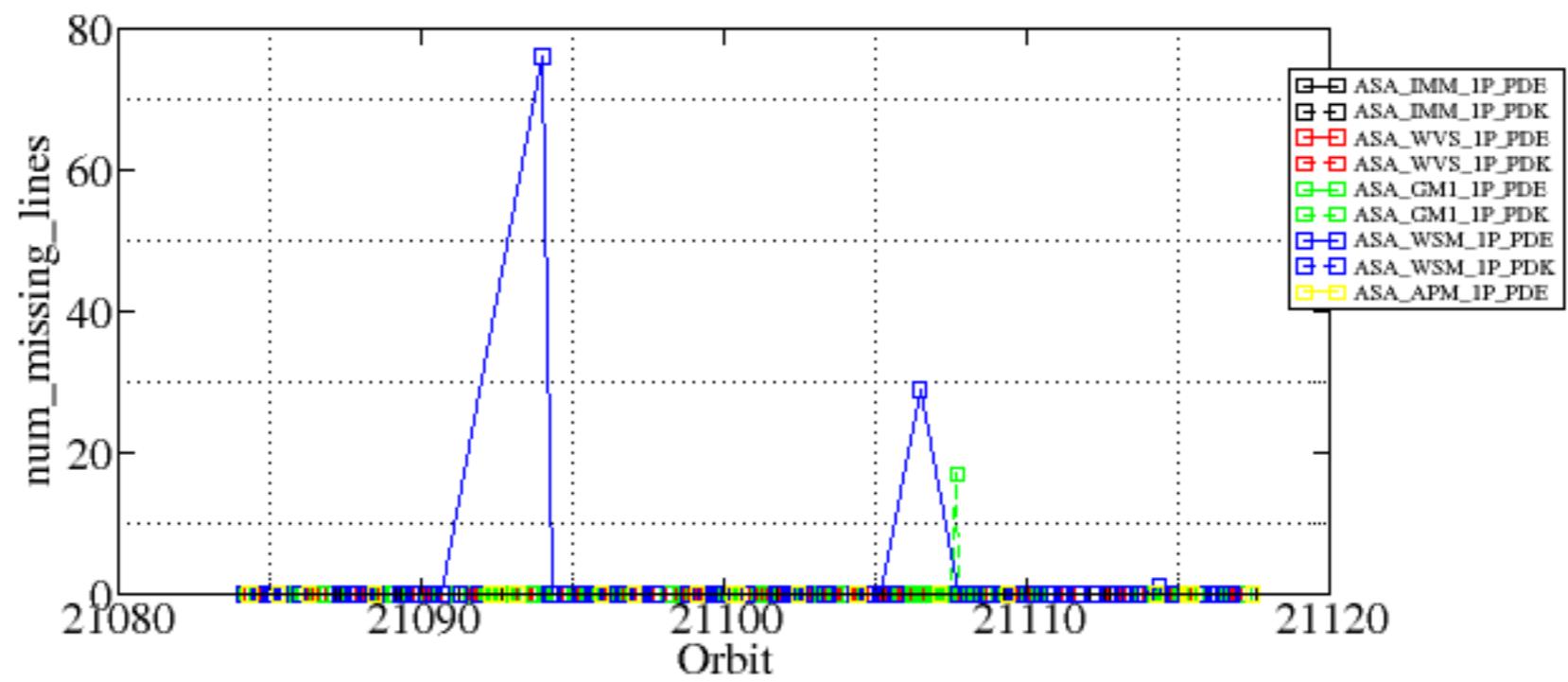
<img alt="A grid-based visualization showing signal levels across various channels (A1-E3) and time steps (1-32). The grid has 10 columns and 32 rows. Columns are labeled A1 through E3 at the top and A2 through E4 at the bottom. Rows are numbered 1 through 32 on the right. Colored bars indicate signal presence: yellow for strong signals, green for moderate signals, and black for no signal. A vertical black bar is present at column C1 from row 17 to 20. A horizontal black bar is present at row 17 from column D1 to D3. Yellow bars are located at (A1, 1), (B1, 1), (C1, 1), (D1, 1), (E1, 1), (A2, 1), (B2, 1), (C2, 1), (D2, 1), (E2, 1), (A3, 1), (B3, 1), (C3, 1), (D3, 1), (E3, 1), (A4, 1), (B4, 1), (C4, 1), (D4, 1), (E4, 1), (A1, 2), (B1, 2), (C1, 2), (D1, 2), (E1, 2), (A2, 2), (B2, 2), (C2, 2), (D2, 2), (E2, 2), (A3, 2), (B3, 2), (C3, 2), (D3, 2), (E3, 2), (A4, 2), (B4, 2), (C4, 2), (D4, 2), (E4, 2), (A1, 3), (B1, 3), (C1, 3), (D1, 3), (E1, 3), (A2, 3), (B2, 3), (C2, 3), (D2, 3), (E2, 3), (A3, 3), (B3, 3), (C3, 3), (D3, 3), (E3, 3), (A4, 3), (B4, 3), (C4, 3), (D4, 3), (E4, 3), (A1, 4), (B1, 4), (C1, 4), (D1, 4), (E1, 4), (A2, 4), (B2, 4), (C2, 4), (D2, 4), (E2, 4), (A3, 4), (B3, 4), (C3, 4), (D3, 4), (E3, 4), (A4, 4), (B4, 4), (C4, 4), (D4, 4), (E4, 4), (A1, 5), (B1, 5), (C1, 5), (D1, 5), (E1, 5), (A2, 5), (B2, 5), (C2, 5), (D2, 5), (E2, 5), (A3, 5), (B3, 5), (C3, 5), (D3, 5), (E3, 5), (A4, 5), (B4, 5), (C4, 5), (D4, 5), (E4, 5), (A1, 6), (B1, 6), (C1, 6), (D1, 6), (E1, 6), (A2, 6), (B2, 6), (C2, 6), 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(A4, 11), (B4, 11), (C4, 11), (D4, 11), (E4, 11), (A1, 12), (B1, 12), (C1, 12), (D1, 12), (E1, 12), (A2, 12), (B2, 12), (C2, 12), (D2, 12), (E2, 12), (A3, 12), (B3, 12), (C3, 12), (D3, 12), (E3, 12), (A4, 12), (B4, 12), (C4, 12), (D4, 12), (E4, 12), (A1, 13), (B1, 13), (C1, 13), (D1, 13), (E1, 13), (A2, 13), (B2, 13), (C2, 13), (D2, 13), (E2, 13), (A3, 13), (B3, 13), (C3, 13), (D3, 13), (E3, 13), (A4, 13), (B4, 13), (C4, 13), (D4, 13), (E4, 13), (A1, 14), (B1, 14), (C1, 14), (D1, 14), (E1, 14), (A2, 14), (B2, 14), (C2, 14), (D2, 14), (E2, 14), (A3, 14), (B3, 14), (C3, 14), (D3, 14), (E3, 14), (A4, 14), (B4, 14), (C4, 14), (D4, 14), (E4, 14), (A1, 15), (B1, 15), (C1, 15), (D1, 15), (E1, 15), (A2, 15), (B2, 15), (C2, 15), (D2, 15), (E2, 15), (A3, 15), (B3, 15), (C3, 15), (D3, 15), (E3, 15), (A4, 15), (B4, 15), (C4, 15), (D4, 15), (E4, 15), (A1, 16), (B1, 16), (C1, 16), (D1, 16), (E1, 16), (A2, 16), (B2, 16), (C2, 16), (D2, 16), (E2, 16), (A3, 16), (B3, 16), (C3, 16), (D3, 16), (E3, 16), 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Summary of analysis for the last 3 days 2006031[345]

The assumptions is taken that the SQADS num_gaps and num_missing_lines fields are reliable indicators of telemetry problems

Filename	num_gaps	num_missing_lines
ASA_IMM_1PNPDE20060314_134140_00000372046_00010_21106_0829.N1	1	0
ASA_IMM_1PNPDE20060314_153600_00000352046_00011_21107_0830.N1	1	0
ASA_IMM_1PNPDE20060315_004510_000001932046_00016_21112_0858.N1	1	0
ASA_GM1_1PNPDK20060314_155431_000003742046_00011_21107_0319.N1	0	17
ASA_WSM_1PNPDE20060313_165856_000001292045_00499_21094_0582.N1	0	76
ASA_WSM_1PNPDE20060314_135201_000000852046_00010_21106_0704.N1	0	29
ASA_WSM_1PNPDE20060315_030808_000001832046_00018_21114_0795.N1	0	1



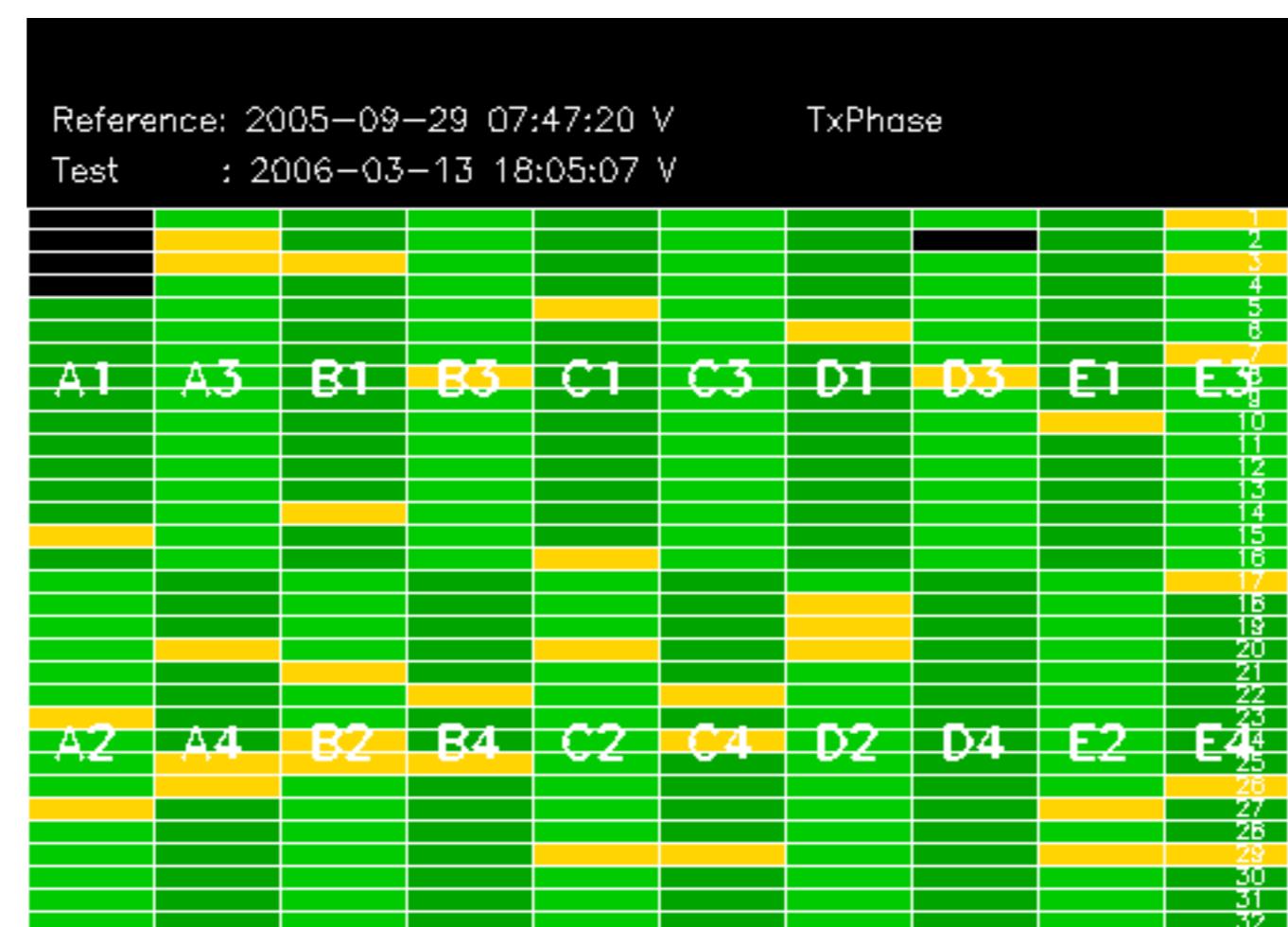


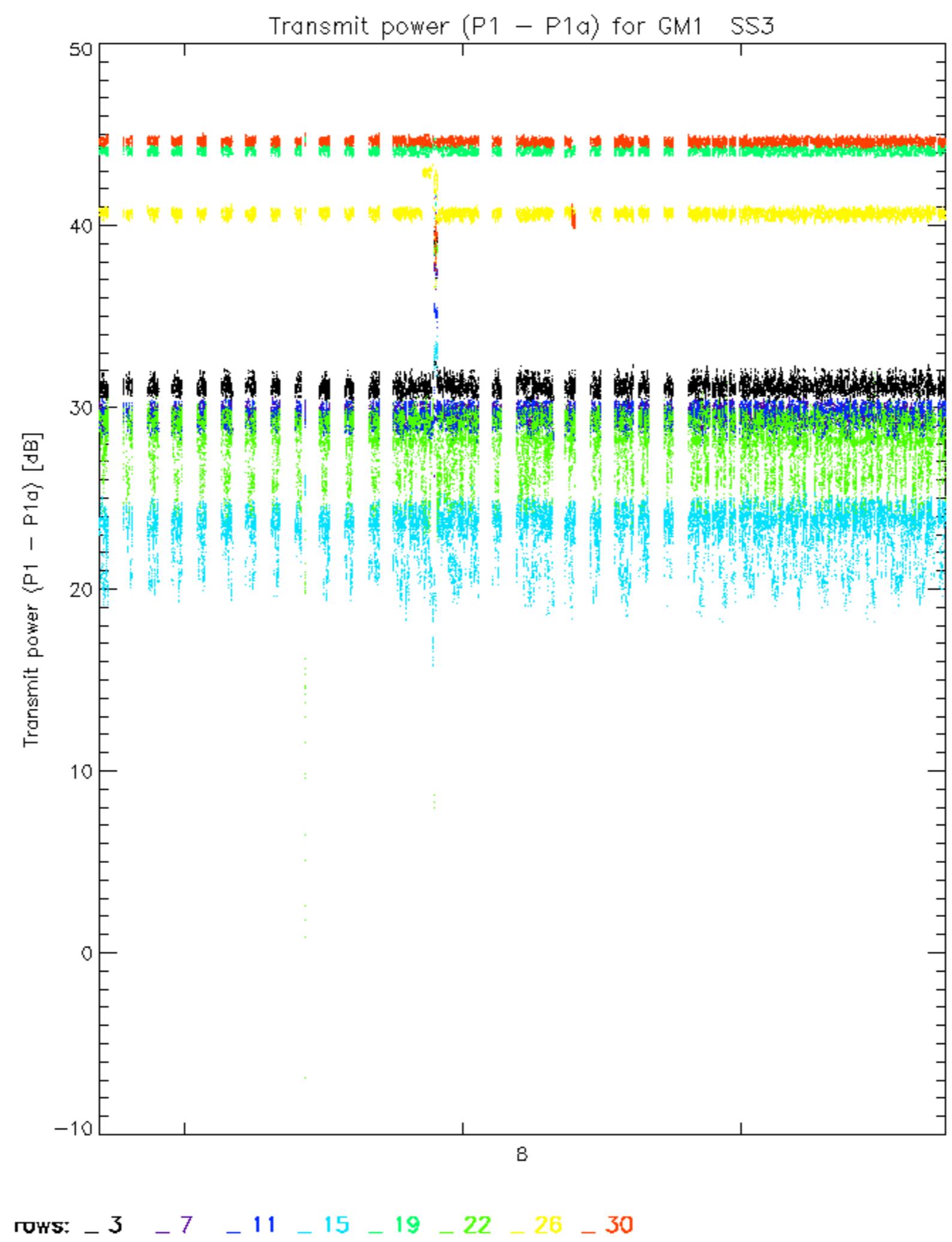
Reference: 2001-02-09 13:50:42 H TxPhase

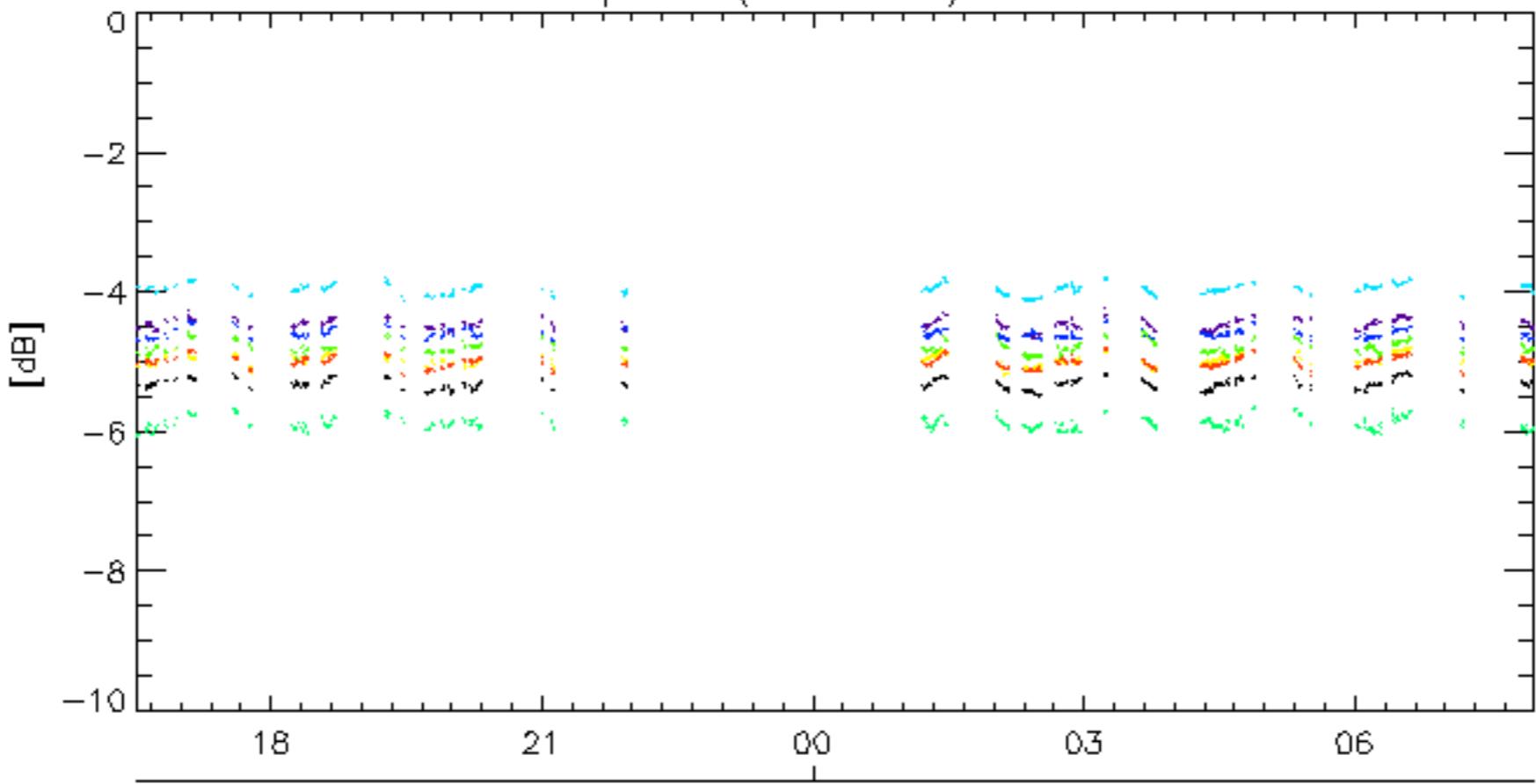
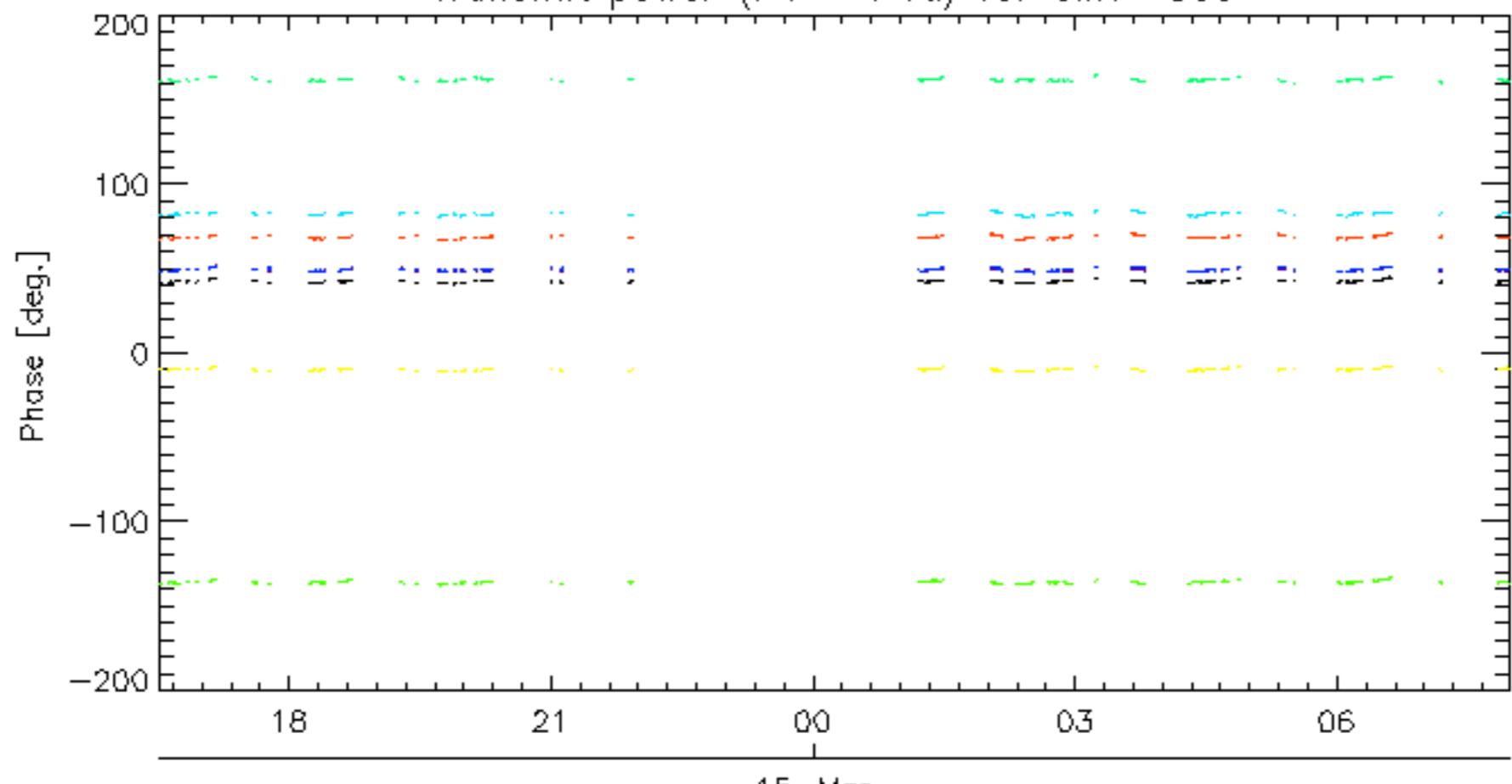
Test : 2006-03-14 17:33:30 H

Reference: 2005-10-08 03:02:47 H TxPhase

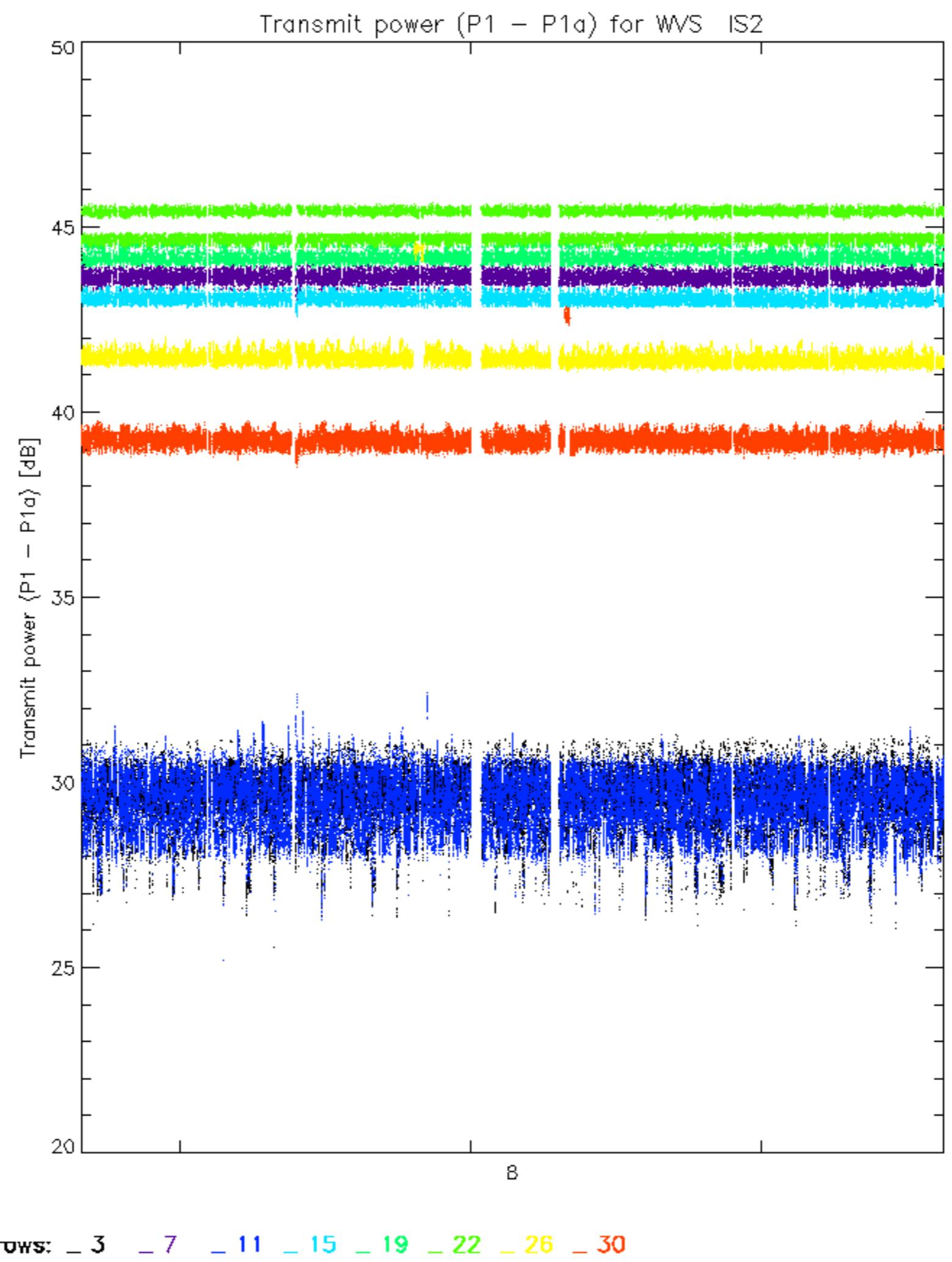
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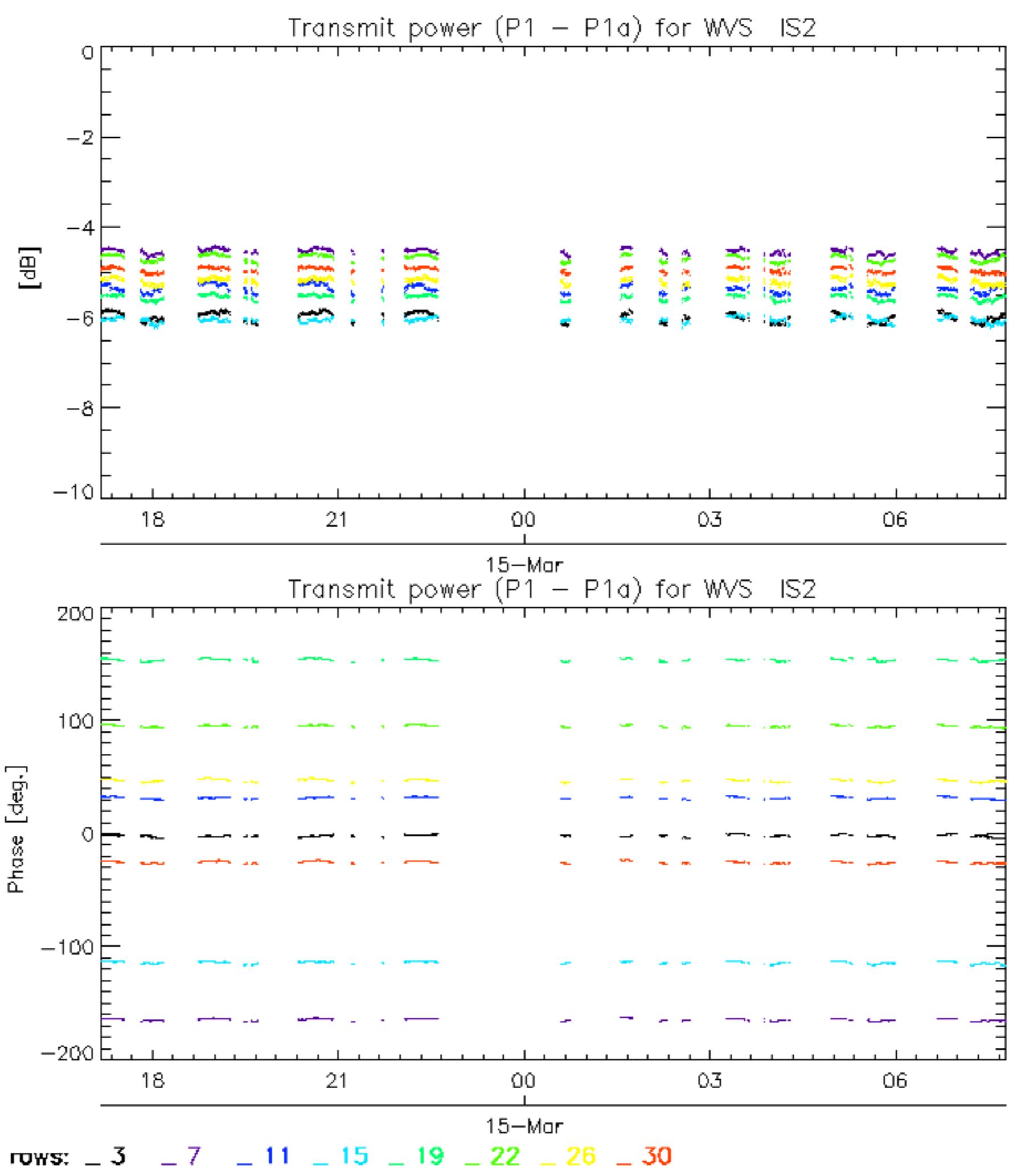




Transmit power ($P_1 - P_{1a}$) for GM1 SS315-Mar
Transmit power ($P_1 - P_{1a}$) for GM1 SS3

rows: — 3 — 7 — 11 — 15 — 19 — 22 — 26 — 30





No unavailabilities during the reported period.

