

# PRELIMINARY REPORT OF 040530

ATTENTION: This report is automatically generated no comments are provided on data analysis

**last update on Sun May 30 12:47:06 GMT 2004**

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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 - Browse Visual Inspection

## 2.3 - Data Analysis

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

## 3 - Module Stepping Mode

The MS mode provides an internal health check on an individual module basis. The purpose of this mode is to identify any malfunctioning modules and to identify modules for which calibration offsets are to be applied. No anomalies observed on available MS products:

Polarisation	Start Time
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**MSM in V/V polarisation**

**MSM in H/H polarisation**

## 4 - Internal calibration Results

No anomalies observed.

### 4.1 - Daily statistics

#### 4.1.1 - Evolution for WVS

Evolution of cal pulses for WVS
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#### 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

P1 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
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P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
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P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
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4.2.2 - Evolution for GM1

Evolution of cal pulses for GM1

P1 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
-----	-------	-----------	------------	-----------------

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
-----	-------	-----------	------------	-----------------

### P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
-----	-------	-----------	------------	-----------------

### 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	0.000463116
	stdev	2.26438e-07
MEAN Q	mean	0.000519912
	stdev	2.44149e-07



### 5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.126801
	stdev	0.000996461
STDEV Q	mean	0.127019
	stdev	0.00100678



### 5.3 - Gain imbalance I/Q





## 6 - Doppler Analysis

Preliminary report. The data is not yet controlled



### 6.1 - Unbiased Doppler Error for WVS

#### Evolution of unbiased Doppler error (Real - Expected)


Acsending

Descending

### 6.2 - Absolute Doppler for WVS

#### Evolution of Absolute Doppler


Acsending

Descending

### 6.3 - Doppler evolution versus ANX for WVS

#### Evolution Doppler error versus ANX


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### 6.4 - Unbiased Doppler Error for GM1

Evolution of unbiased Doppler error (Real - Expected)

Ascending

Descending

### 6.5 - Absolute Doppler for GM1

Evolution of Absolute Doppler

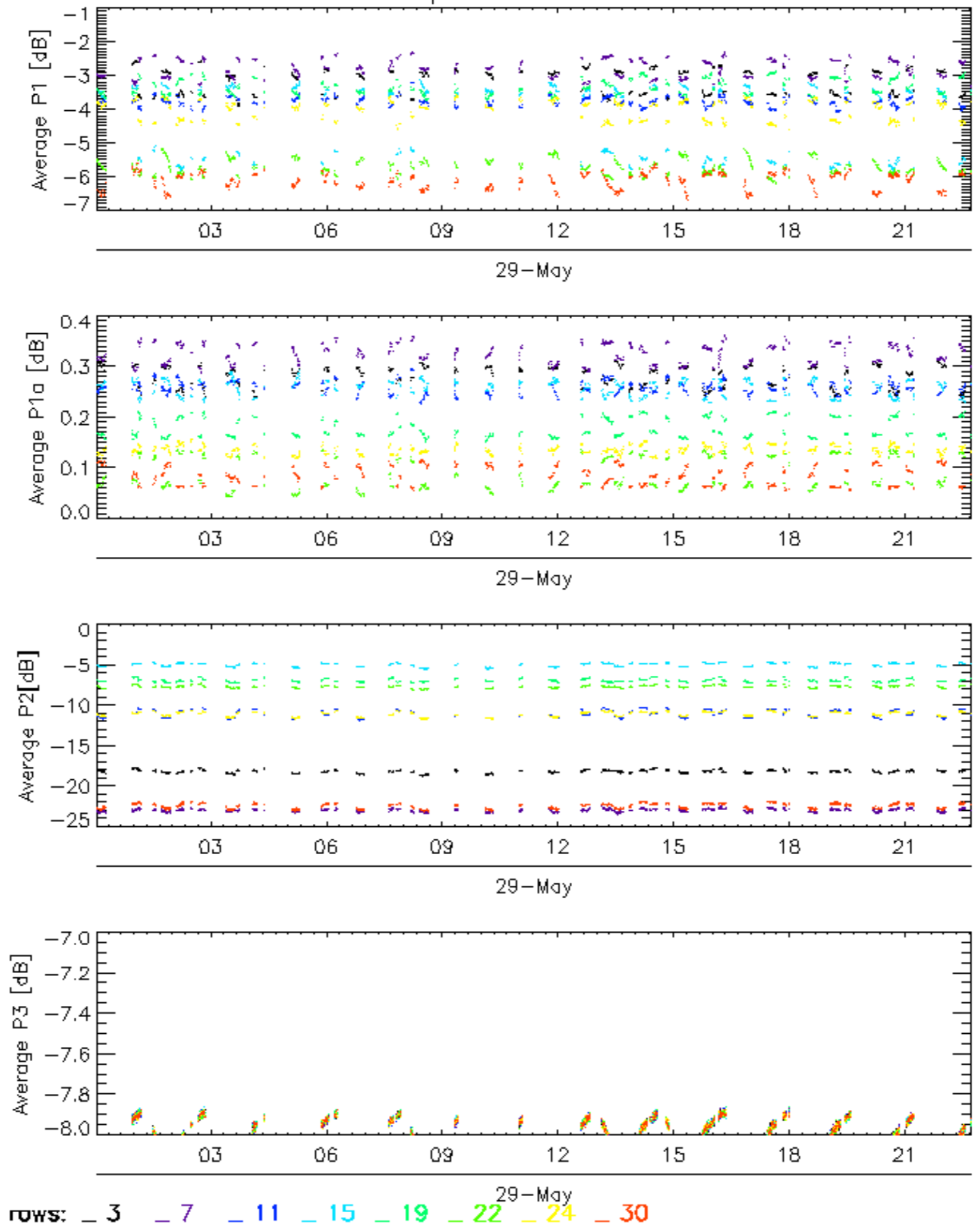
Ascending

Descending

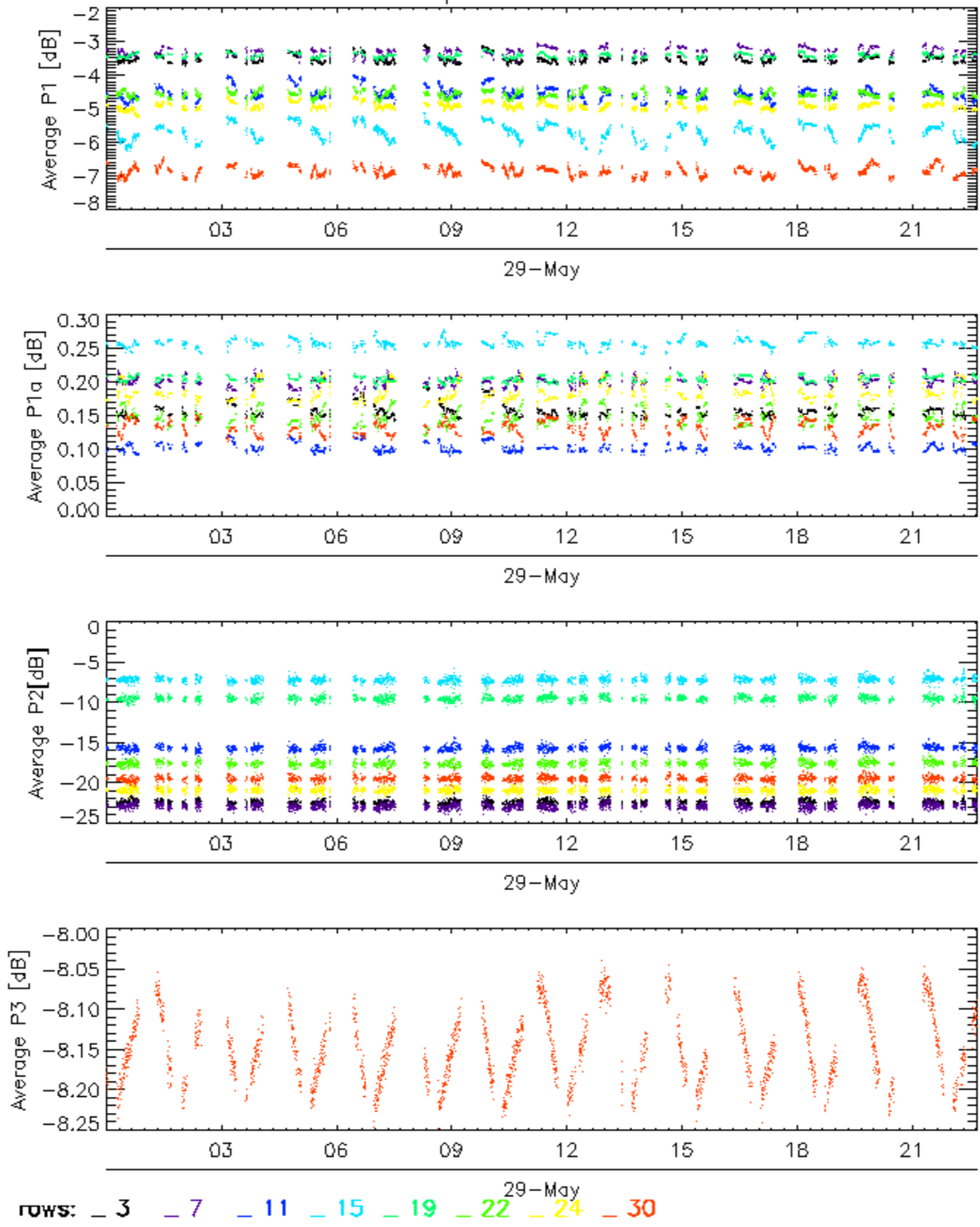
### 6.6 - Doppler evolution versus ANX for GM1

Evolution Doppler error versus ANX

### Cal pulses for GM1 SS3

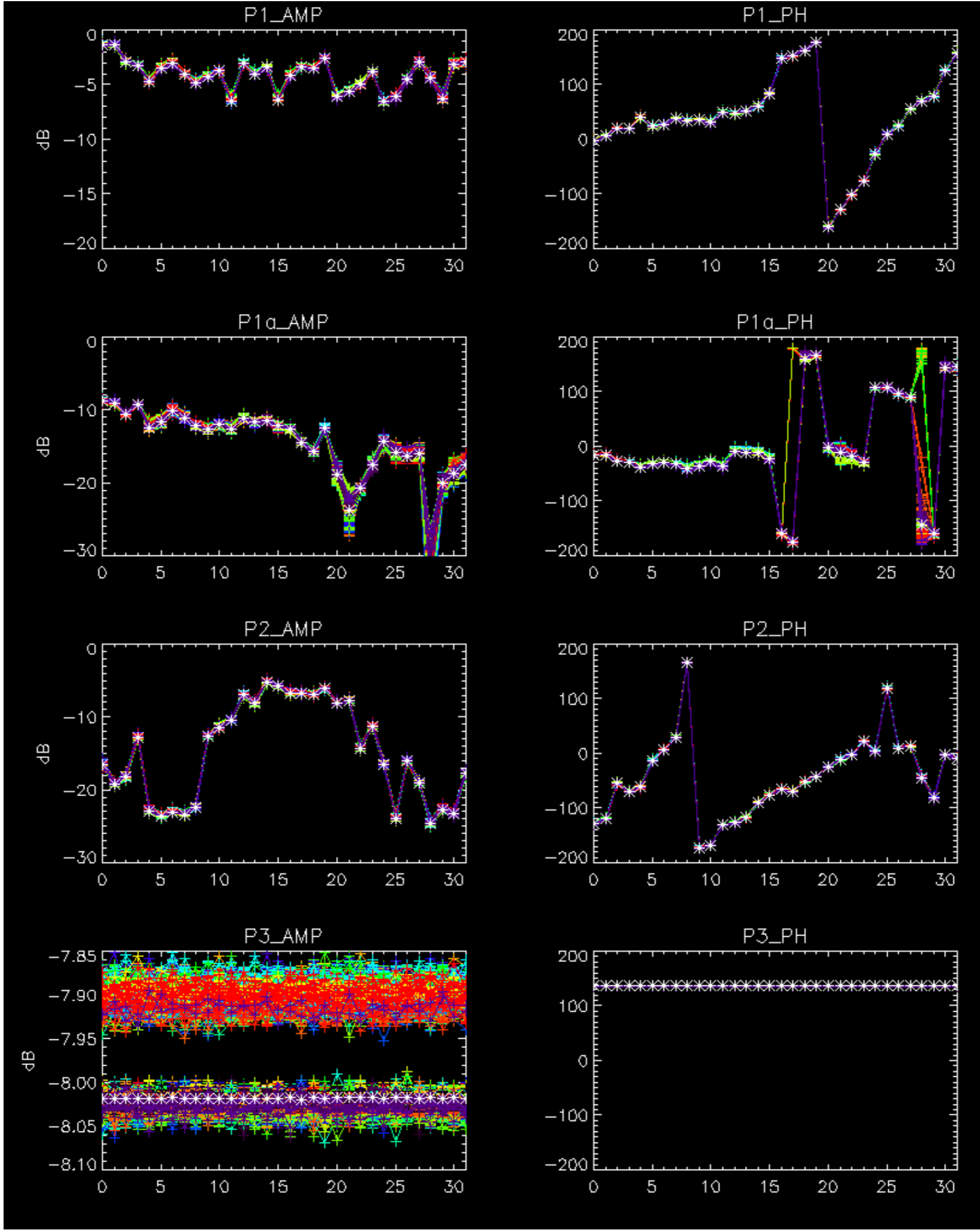


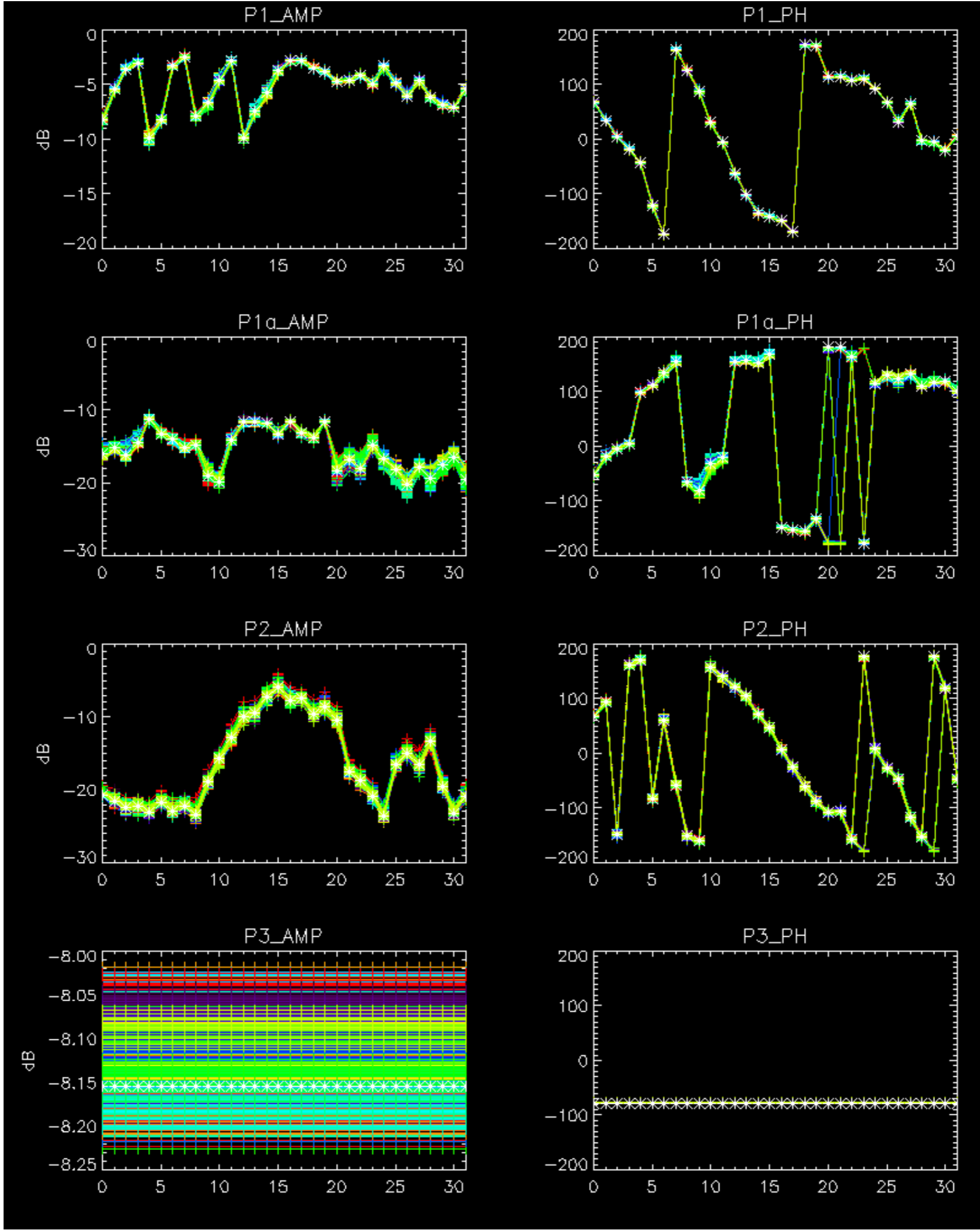
Cal pulses for WVS IS2





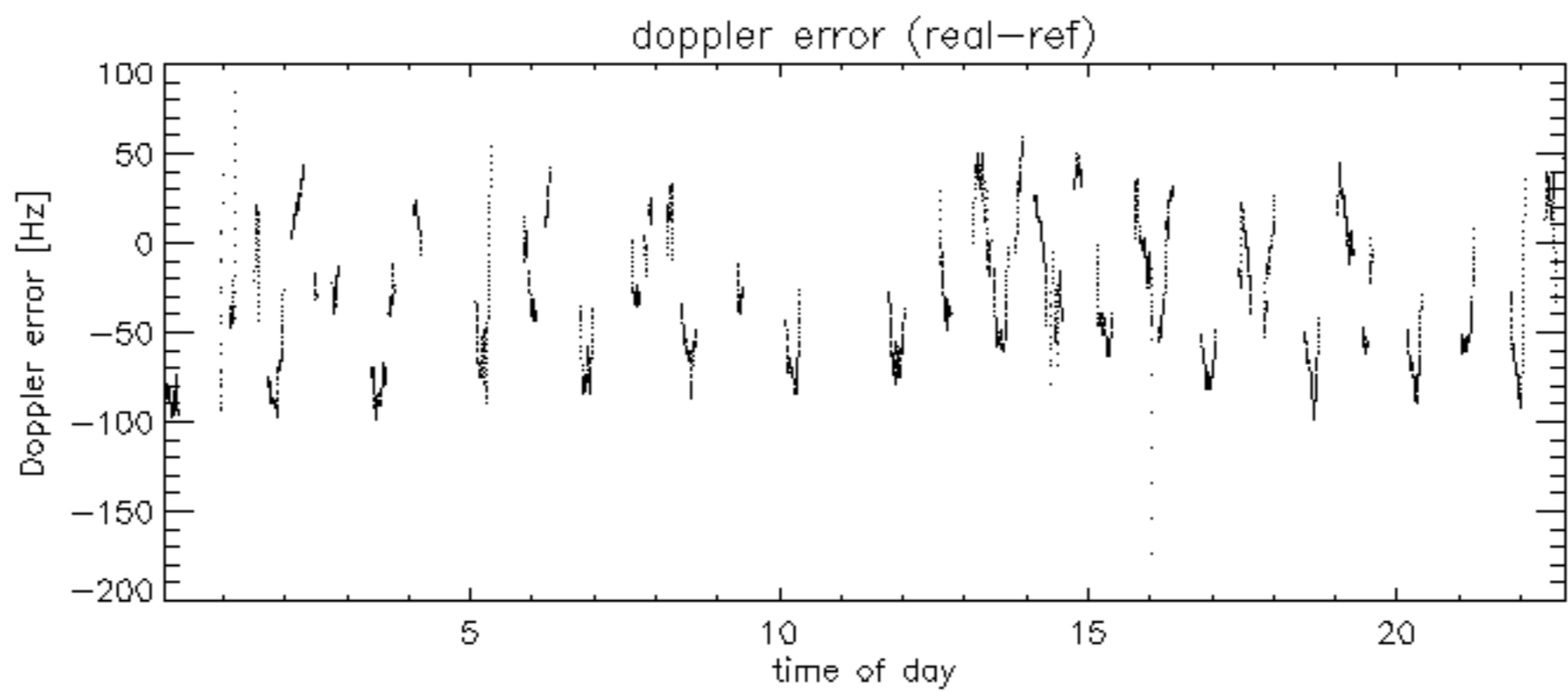
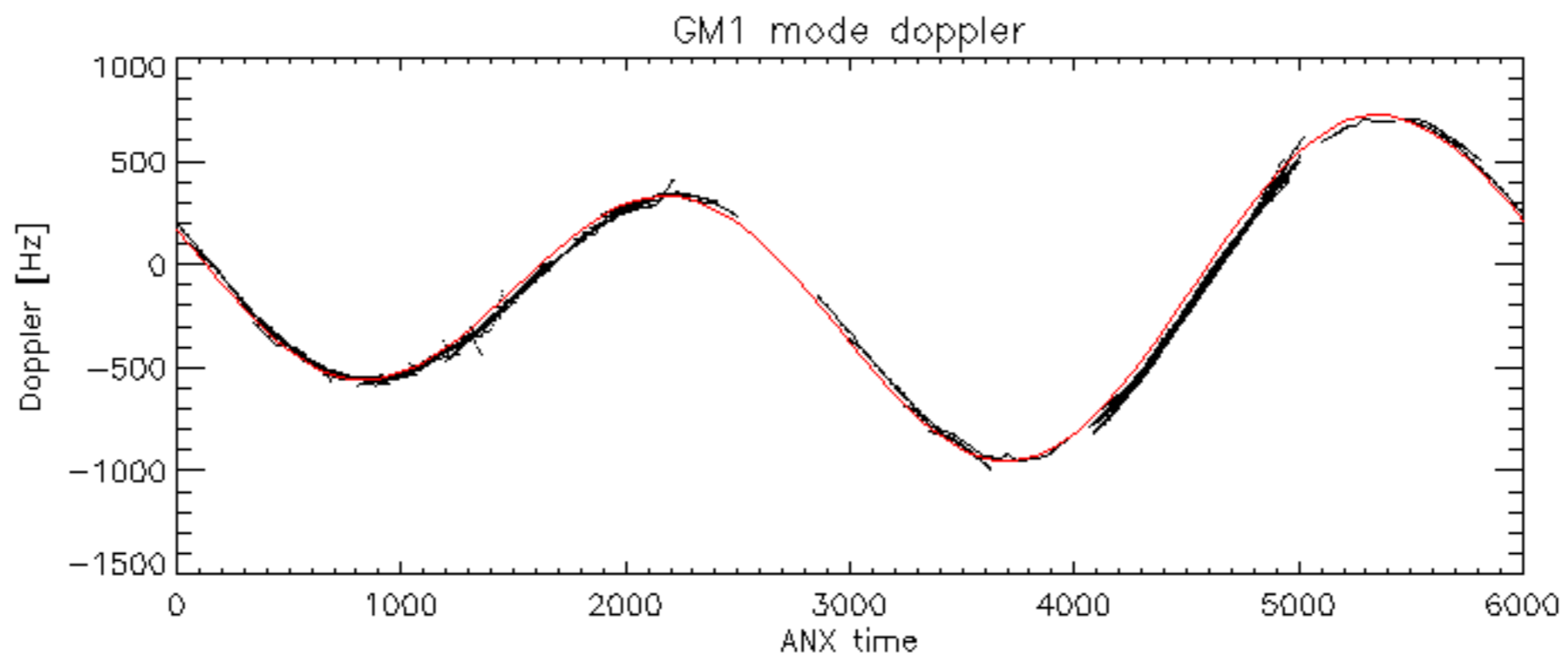
No anomalies observed.

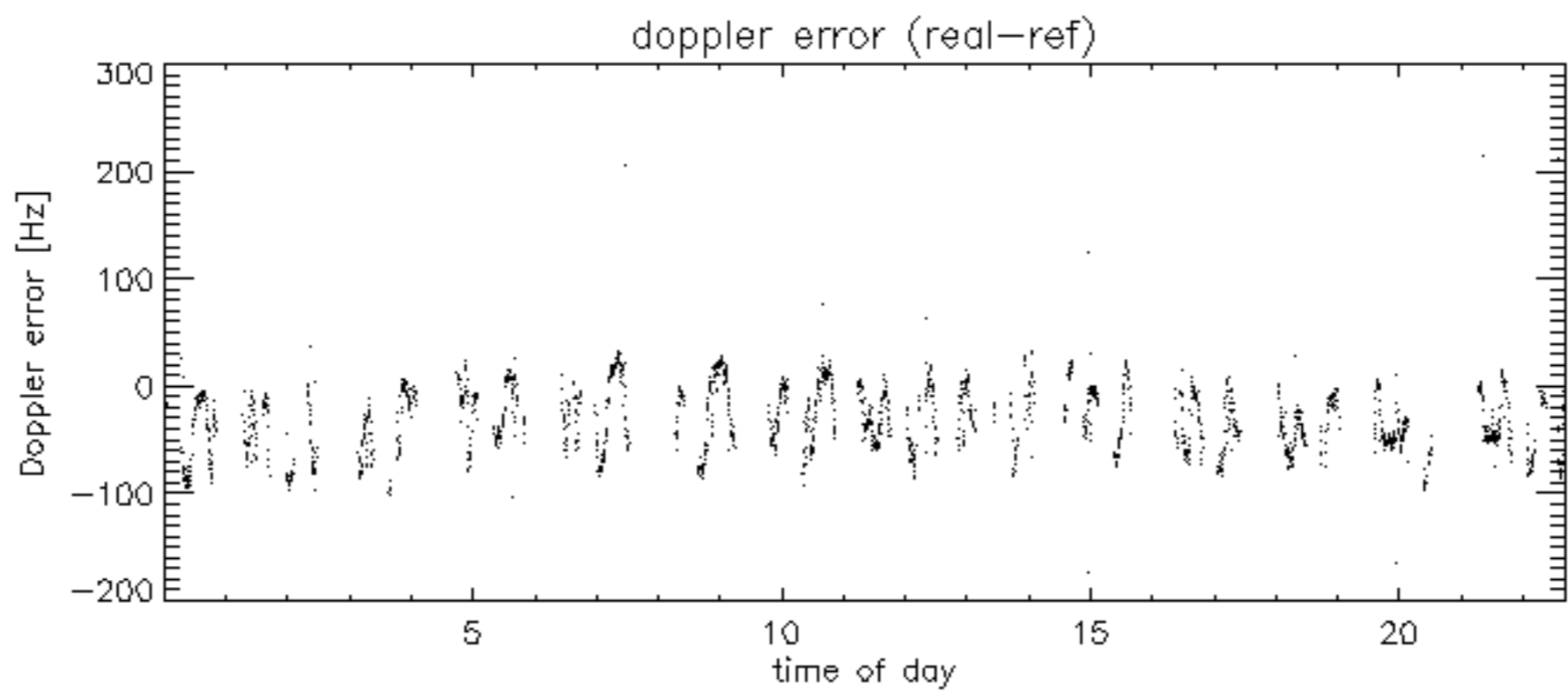
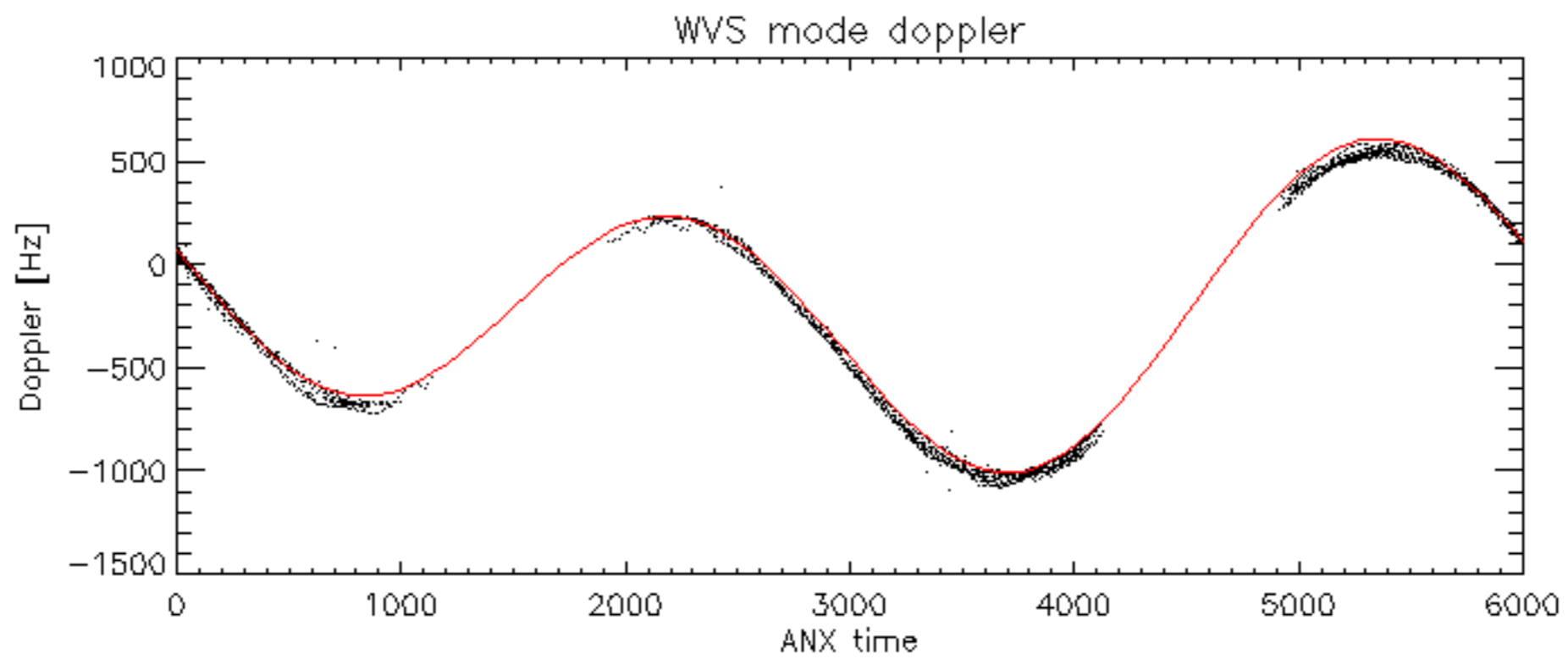




- Stable wave internal calibration pulses gain and phase.
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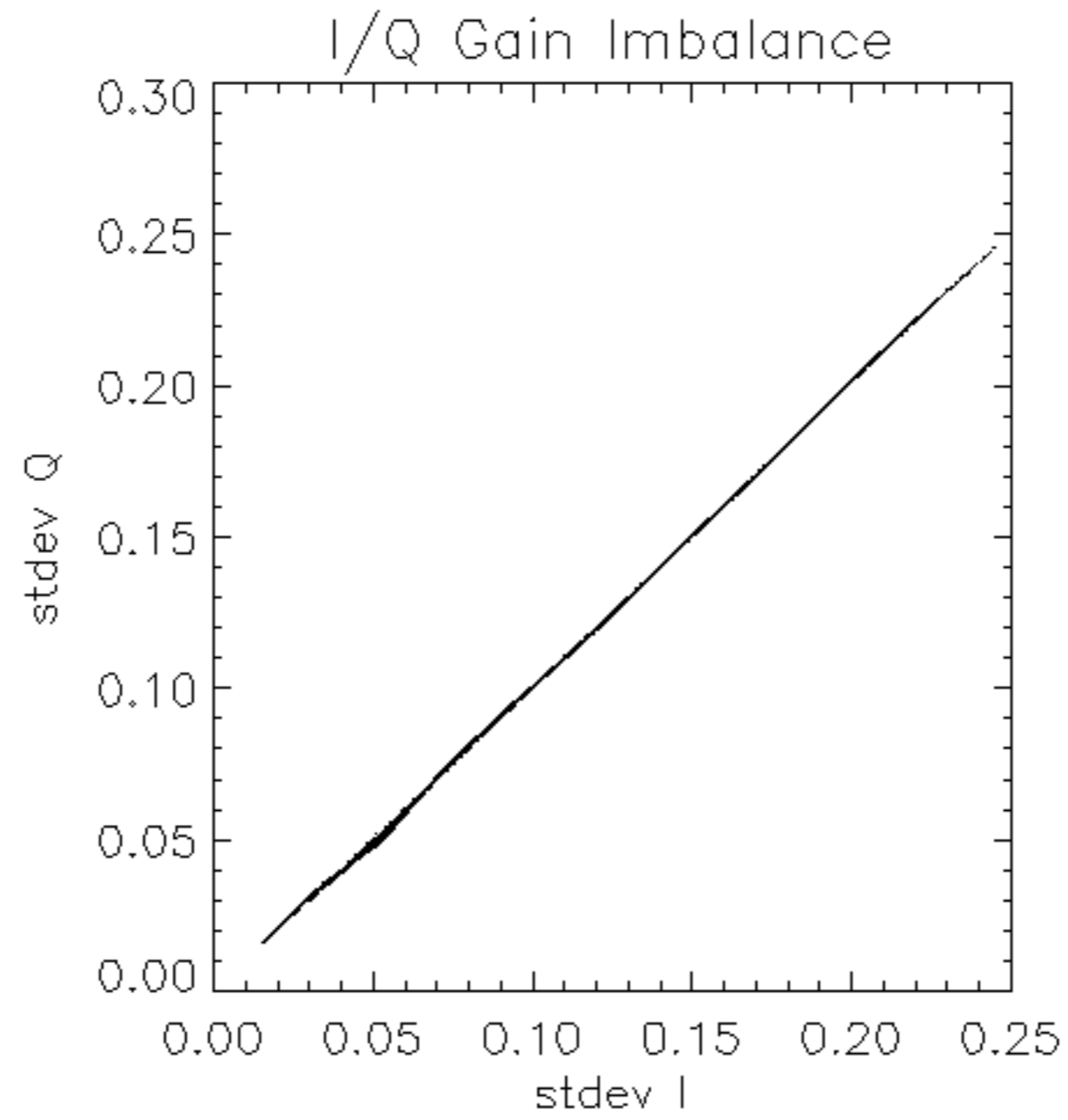


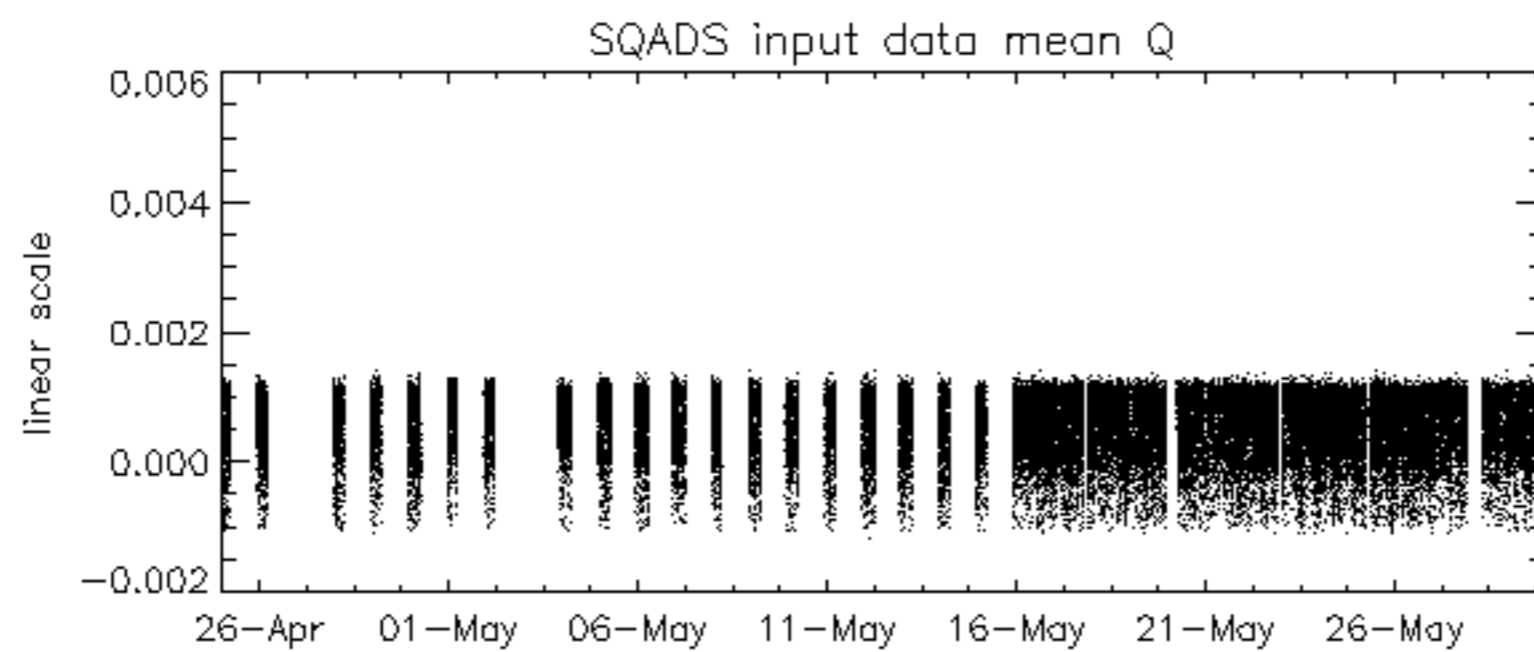
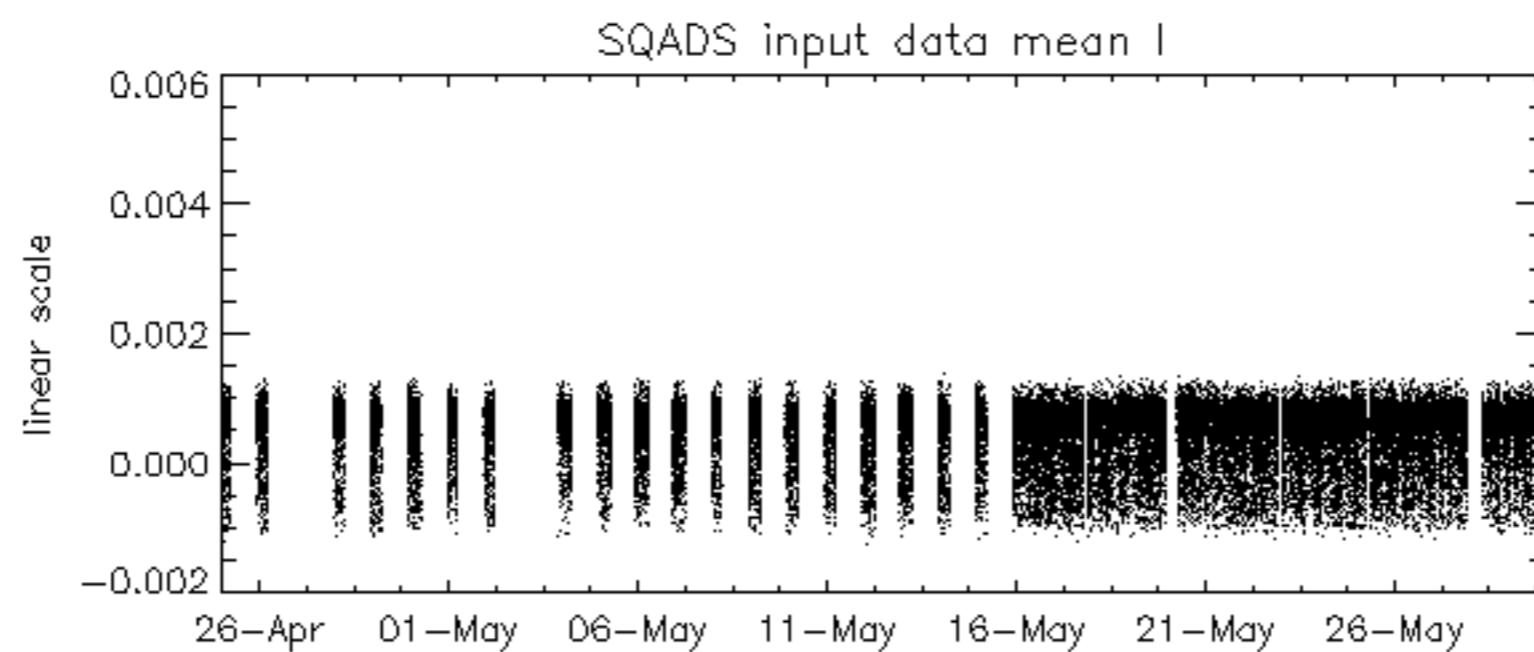
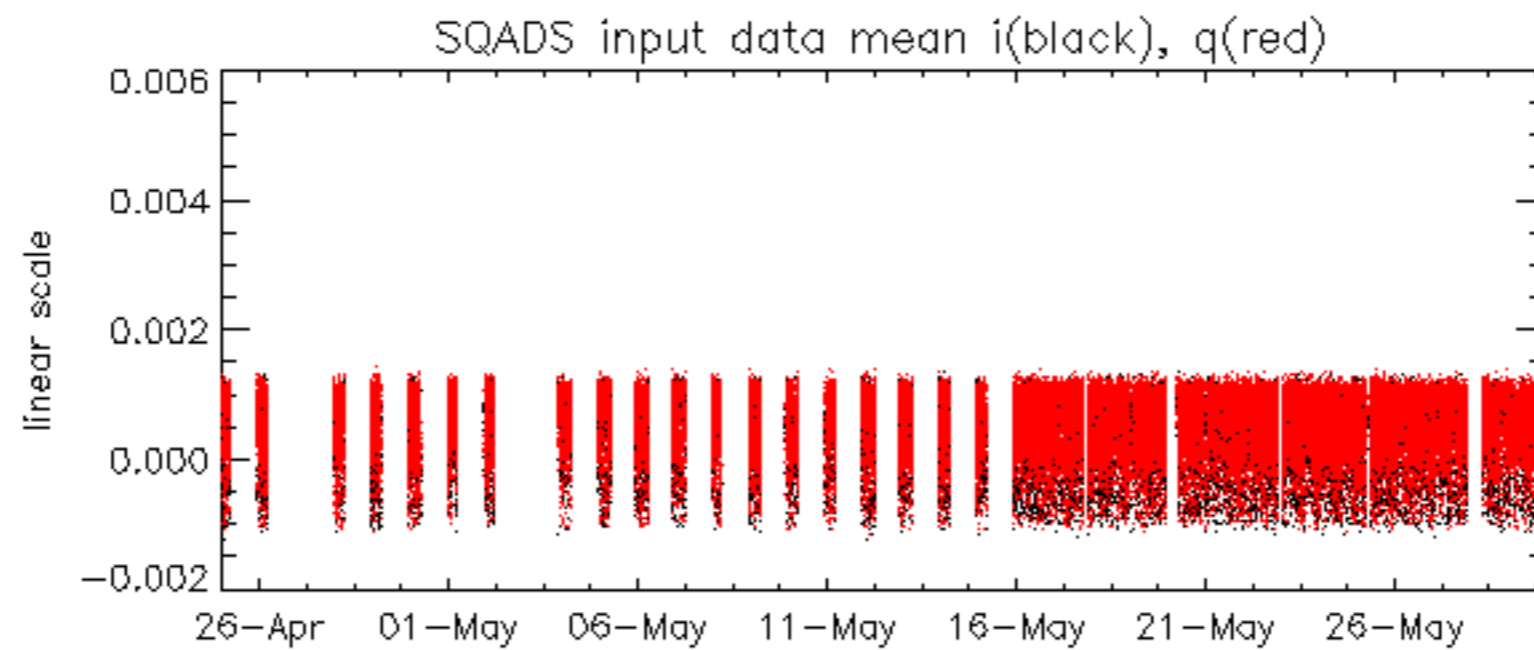


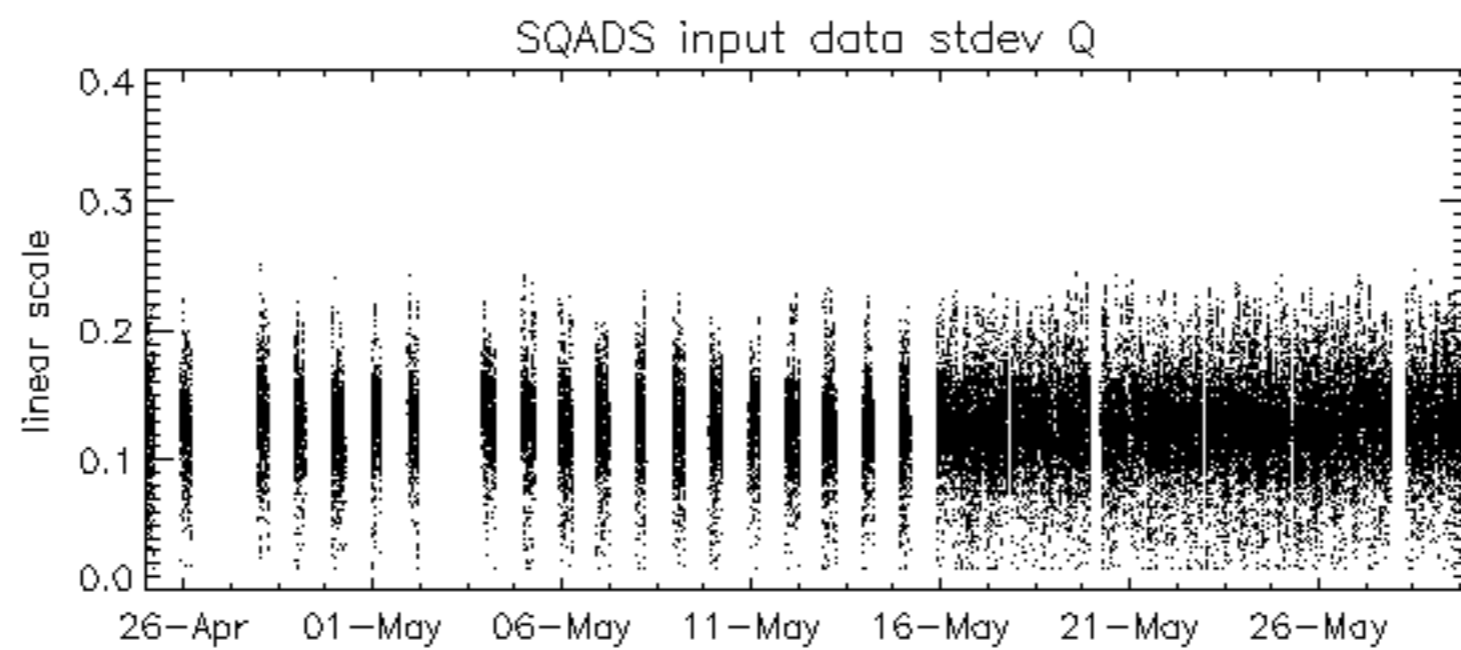
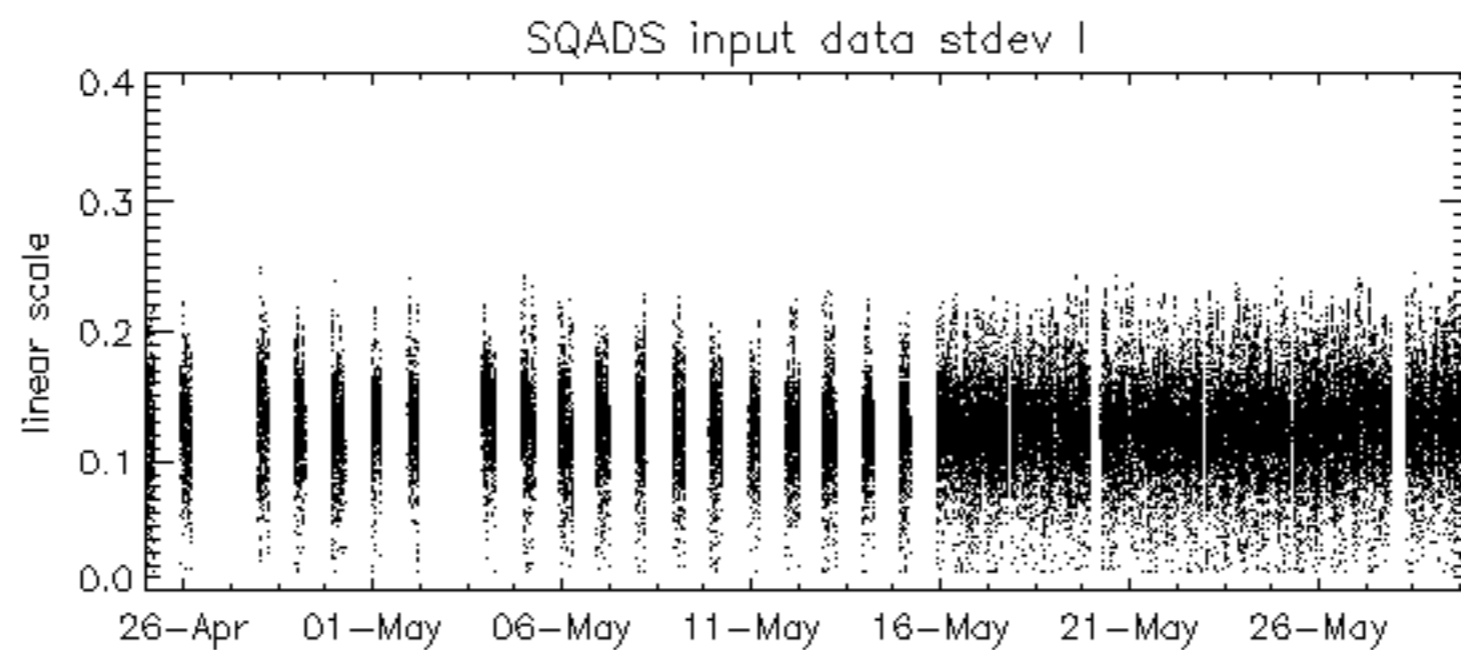
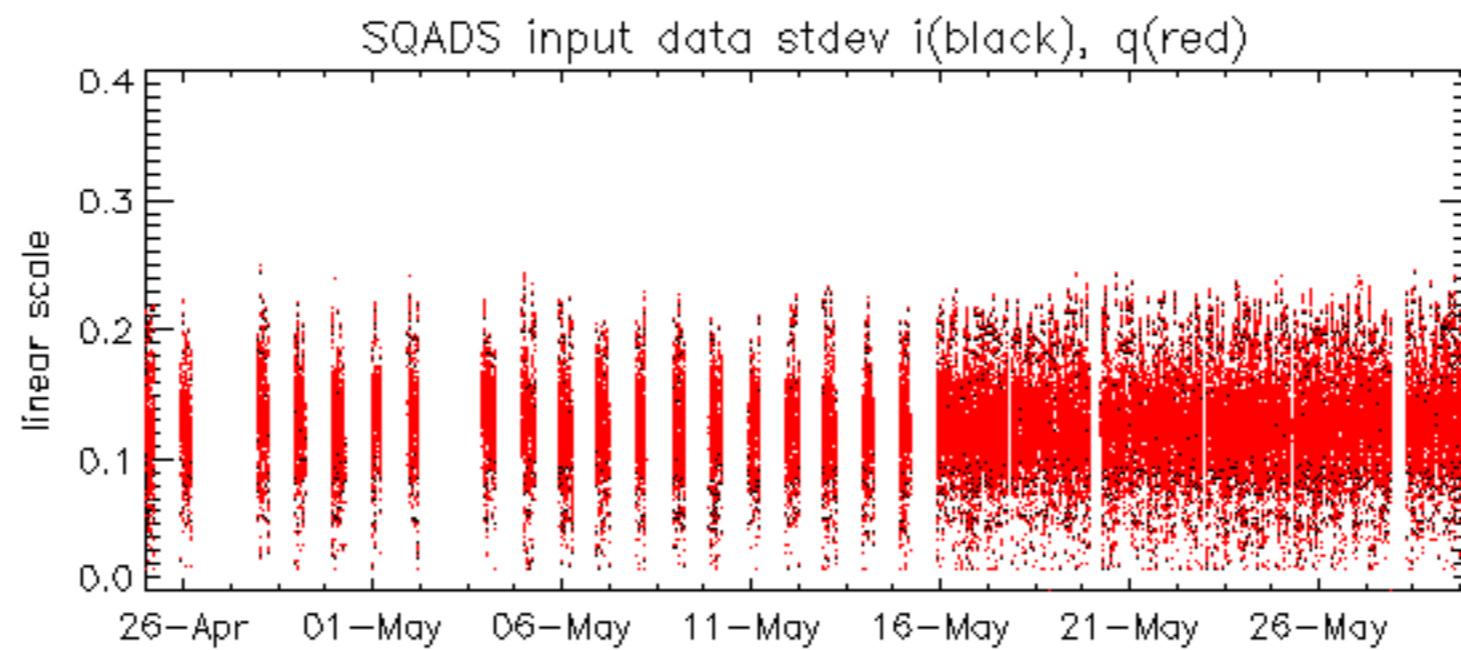
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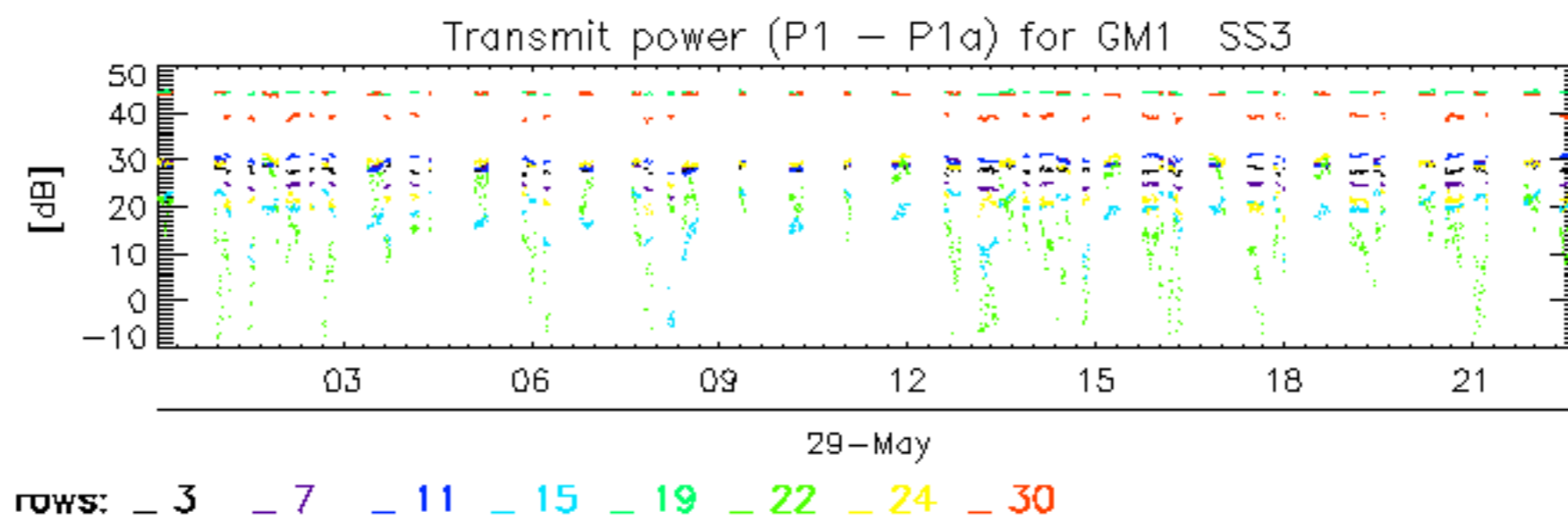


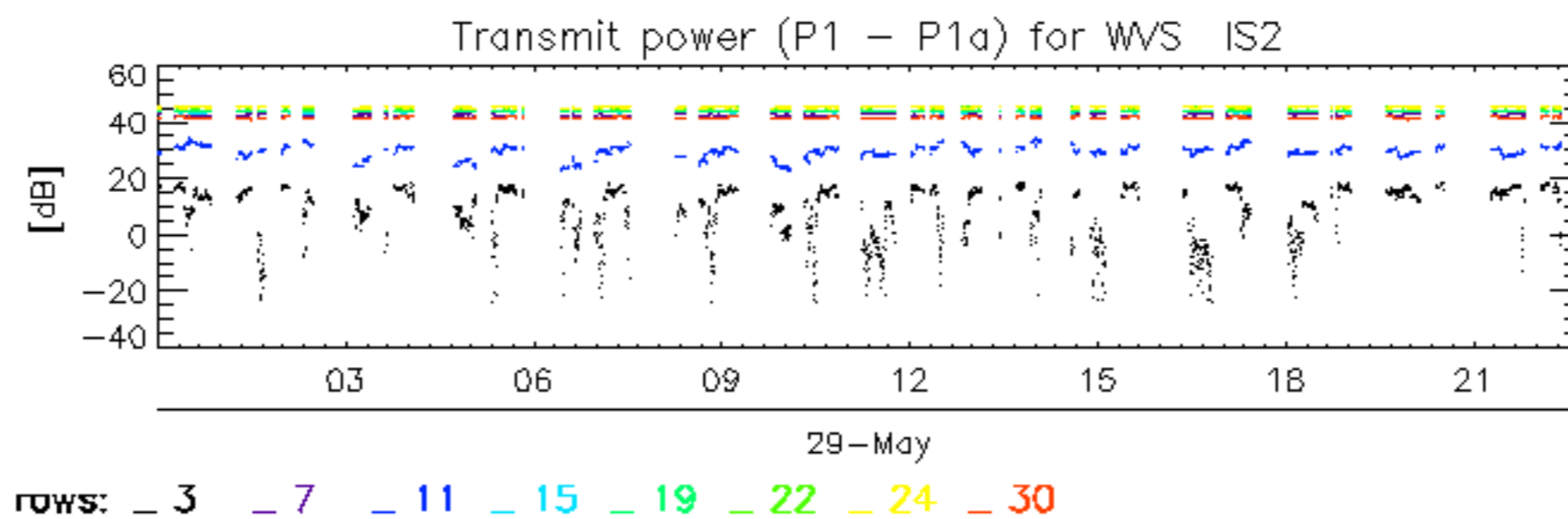
No anomalies observed.











No unavailabilities during the reported period.