

→ peak
 → continuous wave
 24 min

startup @ 132400 - 135800 5.1 MHz CW
 11

Date	June 11 , 2019
Timestamp Start (UTC)	141000
Timestamp End (UTC)	142400

transmitter 1 not working
 transmitting at ~400 kW

Waveform Generator 1		
	Amplitude	Phase
Channel 1	0	0
Channel 2		
Channel 3		
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	0	0
Channel 2		
Channel 3		
Channel 4		

→ paul
 → mode 1 (double chirps)

Date	June 14 ¹¹ , 2019
Timestamp Start (UTC)	143000
Timestamp End (UTC)	144200

transmitter 1 not working
 transmitting at ~400 kW

Waveform Generator 1		
	Amplitude	Phase
Channel 1	0	0
Channel 2		
Channel 3		
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	0	0
Channel 2		
Channel 3		
Channel 4		

Then shut down transmitters to
 fix transmitter 1.

→ paul

→ mode 1 (continuous double chirps)

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Date	June 11 , 2019
Timestamp Start (UTC)	153000
Timestamp End (UTC)	154000

transmitter 1 fixed
file power recalibrated

~~153000~~ 151500 started up
to recalibrate

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.5	0
Channel 2	-0.3	
Channel 3	0	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.3	0
Channel 2	0	
Channel 3	-0.1	
Channel 4		

→ paul

→ 9 min cycle

3 chirp

3 cw

3 off

11

Date	June 11 , 2019
Timestamp Start (UTC)	15 45 00
Timestamp End (UTC)	15 57 30

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.5	0
Channel 2	-0.3	
Channel 3	0	
Channel 4		

found out that "off" was tripping tx's

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.3	0
Channel 2	0	
Channel 3	-0.4	
Channel 4		

→ paul

→ 6 min cycle

3 chirp

3 cw

160200 tx1 tripped

||

Date	June 10 , 2019
Timestamp Start (UTC)	160000
Timestamp End (UTC)	164000

~161000

tx1 went down & won't reset
down to ~400 kw

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.5	0
Channel 2	-0.3	
Channel 3	0 / -0.2	
Channel 4		

~162600

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.3	0
Channel 2	0	
Channel 3	-0.4	
Channel 4		

Then powered everything down
to fix tx1

→ paul

3s L=0

→ modecwl 1

1s L=1

191230 - cw warmup

11

Date	June 11 , 2019
Timestamp Start (UTC)	200000
Timestamp End (UTC)	200700

shut off at 160500 to see enhanced plasma tones
restarted at 160530 (everyone went woo)

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.5	0
Channel 2	0	
Channel 3	0	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-1	0
Channel 2	0	
Channel 3	-1	
Channel 4		

Missed one
193600
~~194500~~
~195800

l_{min} L=0
l_{min} L=1
l_{min} L=-1

← this being the third waveform, its likely it didn't play

→ paul
 → edited - twist - on - off

OKs L=0

OKs L=1

Date	June 10 ¹¹ , 2019
Timestamp Start (UTC)	200900
Timestamp End (UTC)	204400 204700

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.5	0
Channel 2	0	
Channel 3	0	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-1	0
Channel 2	0	
Channel 3	-1	
Channel 4		

→ paul

→ mode_0-1-0-nl
105

11

Date	June 11 , 2019
Timestamp Start (UTC)	20 4500
Timestamp End (UTC)	21 0000

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.5	0
Channel 2	0	
Channel 3	0	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-1	0
Channel 2	0	
Channel 3	-1	
Channel 4		

→ peal
 → model (daal chirps)

Date	June 14 ¹¹ , 2019
Timestamp Start (UTC)	210500
Timestamp End (UTC)	212400

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.5	0
Channel 2	0	/
Channel 3	0	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-1	0
Channel 2	0	/
Channel 3	-1	
Channel 4		

→ paul

→ model (dual chirps)

10 kHz total bw
4.5 kHz low
up + down
0.5 hz wrf
25 C/T

||

Date	June 10 , 2019
Timestamp Start (UTC)	213314
Timestamp End (UTC)	224300

tried to get wrf of 0.05 and it took too long
to load (5 min +)

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.5	
Channel 2	0	
Channel 3	0	
Channel 4		

217610

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-1 / -0.5	0
Channel 2	0	
Channel 3	-1	
Channel 4		

→ paul

→ model 1 - slow (~~0.16~~ 0.16 Hz total wrf)

Date	June ¹¹ 10 , 2019
Timestamp Start (UTC)	232150
Timestamp End (UTC)	014000

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.5	0
Channel 2	0	
Channel 3	0	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.5	0
Channel 2	0	
Channel 3	-1	
Channel 4		