Bistatic Calibration for 70-m **DSS-63** **T52** **Operator** Danny

		Time	SLCP WVSR2B	SRCP WVSR2A	XLCP WVSR1B	XRCP WVSR1A
1	X-band Out the horn (cold sky), diode OFF	223700			-9.7	-10.1
		044536			-21.8	-21.5
	Begin XRCP and XLCP 16 KHz recording					
	XRCP DC3 **Att Auto XLCP and XRCP only**	223839				
	XLCP DC8					
	ADC Amplitude				-9.6	-9.9
					-21.8	-21.5
	Att Setting				14.0	17.0
					26.0	28.0
2	X-band in the ambient load	224348			-0.4	-0.6
		044707			-10.4	-9.5
	Att auto (Final for XRCP and XLCP)	224454				
	No Att Auto during post-cal					
	Ambient Load Temp X1=13.75, S1=16.38, S2=18.44					
	X1=13.06, S1=15.94, S2=17.12					
	ADC Amplitude				-10.4	-9.7
					-10.4	-9.5
	Att Setting				26.0	28.0
	Monitor Att Setting from here on. It should not change				26.0	28.0
	Weather T=15.9 degC, H=22.2%, P=930.9 mbar, Wind=3.7 kph, Partly cloudy					
	T=12.6 degC, H=40.7%, P=931.2 mbar, Wind=3.7 kph, Partly cloudy					
	(Temp, Humidity, Pressure, Wind Speed, Sky condition)					
3-4	XRCP 12.5K diode ON	225813			-10.4	-9.4
	Wait 1-2 minutes for next step	045017			-10.4	-9.3
	XLCP 12.5K diode ON	230146				
		045237				
	ADC Amplitude				-10.1	-9.5
					-10.2	-9.4
5	X-band Out the horn, diode ON	230628				
		045455				
	ADC Amplitude				-19.4	-19.3
					-19.5	-19.3
6-7	XRCP diode OFF	231033			-19.4	-21.2
	Wait 1-2 minutes for next step	045720			-19.6	-21.7
	XLCP diode OFF	231346				
		045828				
	ADC Amplitude				-21.6	-21.3
	Pre-cal stop rec 232220 Post-Cal stop rec 050400				-21.8	-21.6
	Stop recording XRCP and XLCP, This completes X-band					

DSS-63 **T52** **Operator** Danny

Begin SRCP

		Time	SLCP WVSR2B	SRCP WVSR2A	XLCP WVSR1B	XRCP WVSR1A
8	Configure both DTTs for S-band SLCP DC8	232700				
9	SRCP Out the horn (cold sky), diode OFF	232806	-9.3	-14.6		
		050437				
	Begin SRCP and SLCP 16 KHz recording					
	Att Auto SRCP only	232907				
	No Att Auto during post-cal					
	ADC Amplitude		-10.0	-9.6		
			-19.5	-20.5		
	Att Setting		21.0	16.0		
			31.0	27.0		
10	SRCP in the ambient load	233136	-9.9	-0.5		
		050633	-19.7	-9.6		
	Att auto (Final for SRCP)	233216				
	No Att Auto during post-cal					
	Ambient Load Temp				2335 NOPE noting station has both receivers same band. Switch other to SLCP	
	ADC Amplitude		-10.3	-9.5		
			-19.7	-9.6		
	Att Setting		21.0	27.0		
	Monitor Att Setting from here on. It should not change		21.0	27.0		
11	SRCP 12.5K diode ON	233642				
		050821				
			fluctuating			
	ADC Amplitude		-10.5	-9.4		
			-19.9	-9.3		
12	SRCP Out the horn, diode ON	002940				
	Station having problem with switch during pre-cal	051100				
	002440 Problem fixed					
	ADC Amplitude		-10.3	-18.8		
	0513 Pronlem with switch again during post-cal			Can't continue. Stuck		
13	SRCP diode OFF	003010				
		051506				
	ADC Amplitude		-9.5	-20.5		
			-19.3	-9.7		

End SRCP

DSS-63 **T52** **Operator** Danny

Begin SLCP

		Time	SLCP WVSR2B	SRCP WVSR2A	XLCP WVSR1B	XRCP WVSR1A
14	SLCP Out the horn (cold sky), diode OFF	003400				
		051506				
	Continue SRCP and SLCP 16 KHz recording					
	Att Auto SLCP only	003420				
	No Att Auto during post-cal					
	ADC Amplitude		-8.5	-20.8		
			-19.6	-9.6		
	Att Setting		19.0	27.0		
			31.0	27.0		
15	SLCP in the ambient load	004120	0.5			
	0037 Asked station for this step. They asked us to confirm that it's configured correctly. -> No, we lost signal. "IF signal may be missing." Tried another config. -> misconfigured. Caught by NOPE	051736				
	Att auto (Final for SLCP)	004225				
	No Att Auto during post-cal					
	Ambient Load Temp					
	ADC Amplitude		-8.6	-19.6		
			-8.4	-9.8		
	Att Setting		31.0	27.0		
	Monitor Att Setting from here on. It should not change		31.0	27.0		
16	SLCP 12.5K diode ON	004635				
		051820				
	ADC Amplitude		-8.4	-19.3		
			-8.3	-9.7		
17	SLCP Out the horn, diode ON	005020				
	Saw a short change to SRCP. But then went back	052037				
	ADC Amplitude		-17.3	-20.5		
			-17.8	-9.7		
18	SLCP diode OFF	005333				
		052237				
	ADC Amplitude		-19.3	-20.7		
	Pre-cal stop rec 005700 Post-cal stop rec 052800		-19.3	-9.6		
	Stop recording SRCP and SLCP. This completes S-band					

Minical #1 DSS-63 T52 Operator Danny

		Time	SLCP WVSR2B	SRCP WVSR2A	XLCP WVSR1B	XRCP WVSR1A
Start 16K recording (if it's not already started)		012300	-19.2	-20.4	-21.3	-20.9
Start. Enable RCP Diodes	ADC Amplitude	012500	-19.2	-18.7	-21.2	-19.1
Disable diodes. Configure Receivers for LCP		012700	-19.0	-20.1	-21.4	-20.5
Enable LCP Diodes	ADC Amplitude	012810	-17.3	-20.3	-19.3	-20.9
Disable diodes. Re-configure receivers for RCP		013005	-19.7	-20.4	-21.2	-20.5
Completed reconfiguration for RCP		013114				

Minical #2

		Time	SLCP WVSR2B	SRCP WVSR2A	XLCP WVSR1B	XRCP WVSR1A
Start 16K recording (if it's not already started)		041700	-17.1	-18.4	-18.2	-18.0
Start. Enable RCP Diodes	ADC Amplitude	041900	-17.2	-17.0	-18.1	-16.7
Disable diodes. Configure Receivers for LCP		042100	-17.0	-18.3	-18.0	-17.5
Enable LCP Diodes	ADC Amplitude	042206	-15.7	-17.8	-16.6	-17.5
Disable diodes. Re-configure receivers for RCP		042410	-16.6	-18.0	-17.5	-17.1
Completed reconfiguration for RCP		042442				

Minical #3

		Time	SLCP WVSR2B	SRCP WVSR2A	XLCP WVSR1B	XRCP WVSR1A
Start 16K recording (if it's not already started)						
Start. Enable RCP Diodes	ADC Amplitude					
Disable diodes. Configure Receivers for LCP						
Enable LCP Diodes	ADC Amplitude					
Disable diodes. Re-configure receivers for RCP						
Completed reconfiguration for RCP						

SNT Measurement #1 Time 011500
X-band Value 19.515
S-band Value 26.687

SNT Measurement #2 Time 031100
X-band Value 31.6
S-band Value 31.9

SNT Measurement #3 Time 040300
X-band Value 44.9
S-band Value 36.6

Time
Weather Update T=12.3 degC, H=33.6%, P=930.8 mbar, Wind=1.2 kph, Partly cloudy 014100

Ambient Load Temperature Update X1=13.19, S1=16.31, S2=17.69 014234