Bistatic Calibration for 70-m **DSS-14** **T46** 2008/308 **Operator** Elias

		Time	SLCP RSR3B	SRCP RSR3A	XLCP RSR2B	XRCP RSR2A
1	X-band Out the horn (cold sky), diode OFF	143020			-9.9	-9.9
		211600			-22.1	-22.8
	Begin XRCP and XLCP 16 KHz recording					
	Att Auto XLCP and XRCP only	143115				
	Pre-cal start record 143322					
	ADC Amplitude				-10.0	-10.1
					-22.1	-22.8
	Att Setting				10.5	11.5
					22.5	24.0
2	X-band in the ambient load	144005			-0.2	-0.1
		211940			-10.1	-10.1
	Att auto (Final for XRCP and XLCP)	144235				
	No Att Auto during post-cal					
	Ambient Load Temp X1=7.62, S1=9.31, S2=11.44					
	X1=11.00, S1=13.19, S2=16.38					
	ADC Amplitude				-9.8	-10.0
					-10.1	-10.1
	Att Setting				22.5	24.0
	Monitor Att Setting from here on. It should not change				22.5	24.0
	Weather T=7 degC, H=39%, P=902 mbar, Wind=14 mph from S, Partly cloudy					
	T=15.9 degC, H=46.5%, P=899.7 mbar, Wind=22.9 mph, Clear					
	(Temp, Humidity, Pressure, Wind Speed, Sky condition)					
3-4	XRCP 12.5K diode ON	145320			-9.8	-9.8
	Wait 1-2 minutes for next step	212715			-10.1	-10.0
	XLCP 12.5K diode ON	145935				
		213040				
	ADC Amplitude				-9.6	-9.8
					-9.8	-9.9
5	X-band Out the horn, diode ON	150520				
		213445				
	ADC Amplitude				-19.7	-20.1
					-19.7	-20.2
6-7	XRCP diode OFF	151655			-19.7	-22.7
	Wait 1-2 minutes for next step	213830			-19.8	-22.7
	XLCP diode OFF	152135				
		213930				
	ADC Amplitude				-22.0	-22.4
					-22.1	-22.5
	Stop recording XRCP and XLCP, This completes X-band					

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Begin SRCP

		Time	SLCP RSR3B	SRCP RSR3A	XLCP RSR2B	XRCP RSR2A
8	Configure both DTTs for S-band Requested 152840					
9	SRCP Out the horn (cold sky), diode OFF	153335				
		221600				
	Begin SRCP and SLCP 16 KHz recording					
	Att Auto SRCP only	153453				
	No Att Auto during post-cal					
	ADC Amplitude		-27.5	-11.2		
	215030 Station had to reset DC. Will take a few mins		-21.3	-11.3		
	Att Setting		0.0	12.0		
			13.0	12.0		
10	SRCP in the ambient load	154120		-4.3		
	154230 NOPE doesn't think 14 is in ambient load. Station said switch 21 is for X-band. They are working on S now.	221715		-9.5		
	All seems fine **Att auto (Final for SRCP)**	154405				
	No Att Auto during post-cal					
	Ambient Load Temp					
	ADC Amplitude		-27.6	-9.8		
			-21.5	-12.0		
	Att Setting		0.0	18.0		
	Monitor Att Setting from here on. It should not change		13.0	12.0		
11	SRCP 12.5K diode ON	155145				
		221755				
	ADC Amplitude		-27.6	-9.6		
			-21.5	-4.3		
12	SRCP Out the horn, diode ON	155730				
		221813				
	ADC Amplitude		-27.2	-16.2		
			-21.4	-9.8		
13	SRCP diode OFF	160210				
		221930				
	ADC Amplitude		-27.6	-14.4	<-- Fluctuating	
			-21.6	-11.6		

End SRCP

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Begin SLCP

		Time	SLCP RSR3B	SRCP RSR3A	XLCP RSR2B	XRCP RSR2A
14	SLCP Out the horn (cold sky), diode OFF	160700	165000			
		220600			Repated pre-cal SLCP twice. Second time values are in orange	
	Continue SRCP and SLCP 16 KHz recording					
	Att Auto SLCP only	161958	165103			
	No Att Auto during post-cal					
			-10.5	-8.1		
	ADC Amplitude		-27.5	-9.8		
			-21.8	18.0		
			2.0	18.0		
	Att Setting		0.0	18.0		
			13.0			
15	SLCP in the ambient load 165510	162620	-27.5	-0.7		
		220930	-10.1			
	Att auto (Final for SLCP)	162654	165546			
	No Att Auto during post-cal					
	Ambient Load Temp					
			-27.6	-19.4		
	ADC Amplitude		-27.7	-19.4		
			-10.1	-14.0		
			0.0	18.0		
	Att Setting		0.0	18.0		
	Monitor Att Setting from here on. It should not change		13.0	12.0		
16	SLCP 12.5K diode ON	163255	165735			
		221050				
			-10.0	-19.4		
	ADC Amplitude		-27.7	-19.4		
			-10.2	-14.1		
17	SLCP Out the horn, diode ON	163740	170000			
		221220				
			-19.5	-9.1		
	ADC Amplitude		-27.5	-16.1		
			-16.1	-8.2		
18	SLCP diode OFF	164100	170100		Fluctuations?	
		221305				
			-21.5	-15.9		
	ADC Amplitude		-27.7	-13.6		
			-19.9	-11.6		

Stop recording SRCP and SLCP. This completes S-band

Pre-cal stopped recording 164500

Minical #1 **DSS-14** **T46** 2008/308 **Operator** Elias

		Time	SLCP RSR3B	SRCP RSR3A	XLCP RSR2B	XRCP RSR2A
Start 16K recording (if it's not already started)						
Start. Enable RCP Diodes	ADC Amplitude					
Disable diodes. Configure Receivers for LCP			STATION NOT READY			
Enable LCP Diodes	ADC Amplitude					
Disable diodes. Re-configure receivers for RCP						
Completed reconfiguration for RCP						

Minical #2

		Time	SLCP RSR3B	SRCP RSR3A	XLCP RSR2B	XRCP RSR2A
Start 16K recording (if it's not already started)		185400	-21.2	-12.1	-22.3	-21.7
Start. Enable RCP Diodes	ADC Amplitude	185600	-21.3	-8.3	-19.9	-21.8
Nope had to remind station to enable diode						
Disable diodes. Configure Receivers for LCP		185900	-21.2	-8.6	-19.8	-21.8
Enable LCP Diodes	ADC Amplitude	190400	-21.2	-11.0	-22.1	-21.4
Disable diodes. Re-configure receivers for RCP		Station didn't follow steps. Enabled LCP at 190340.				
Told them to disable. Ran out of time.						
Completed reconfiguration for RCP		190615 Back to nomal configuration				

Minical #3

		Time	SLCP RSR3B	SRCP RSR3A	XLCP RSR2B	XRCP RSR2A
Start 16K recording (if it's not already started)		203200	-20.6	-13.0	-21.5	-21.0
Start. Enable RCP Diodes	ADC Amplitude	203400	Values not written in log			
Disable diodes. Configure Receivers for LCP		203600				
Enable LCP Diodes	ADC Amplitude	203810	-18.9	-12.8	-21.3	-19.1
Disable diodes. Re-configure receivers for RCP		204220	-20.5	-12.2	-21.4	-20.9
Completed reconfiguration for RCP		204225				

SNT Measurement #1 Time
X-band Value
S-band Value

SNT Measurement #2 Time 174300
X-band Value 17.594
S-band Value 29.061

SNT Measurement #3 Time 191800
X-band Value 19.288
S-band Value 24.338

SNT Measurement #4 Time 204800
X-band 23.298
S-band 26.526

Time
Weather Update

Ambient Load Temperature Update