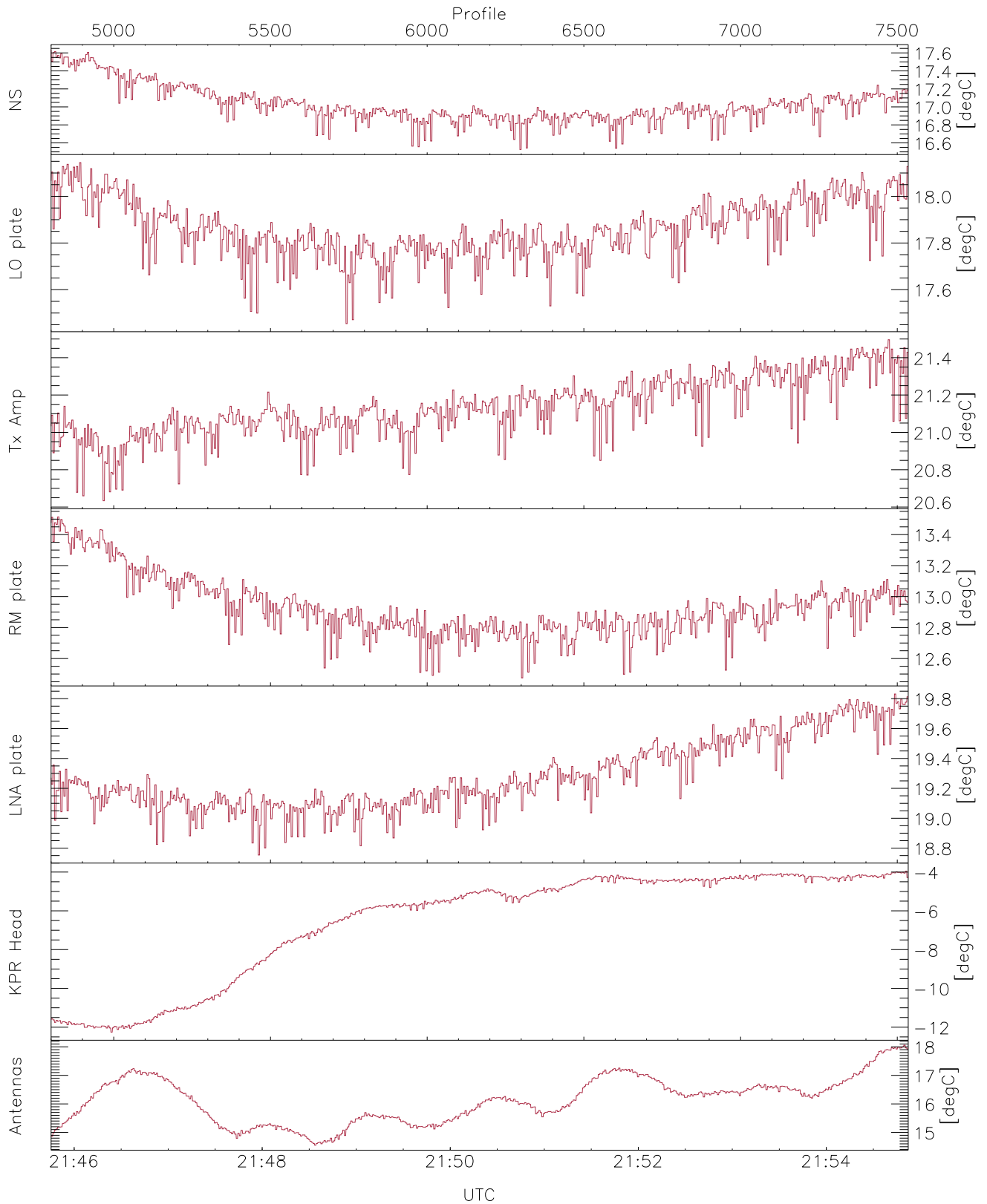


KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF  
 UTC: 21:29:45-21:54:52, TimeCor: 0.00s, Dur: 547.00s  
 TimeInt(min,max,mn,std): 186.4,213.5,200.0,1.4 ms; PPS: 5.0  
 NumRec(r/t): 2736/7536, 4800-7535/21:45:45-21:54:52  
 AcqTime(req,actual): 200.0,200.0 ms, Data Rate: 187.6 KB/s  
 Pulse: 247 ns, Chirp: 2.47 us, DRxIF: 5.0 MHz  
 PRF: 20.0 KHz, avgPulses: 2000, avgPP: 1000  
 NyquistVel: 42.1 m/s, RangeRes:30.0 m  
 Pulse Range(min,max): 120, 6506 m, Gates: 427  
 Chirp Range(min,max): 536, 6487 m, Gates: 398  
 RangeGateSampling: 15.0 m, Aspect: 0.8

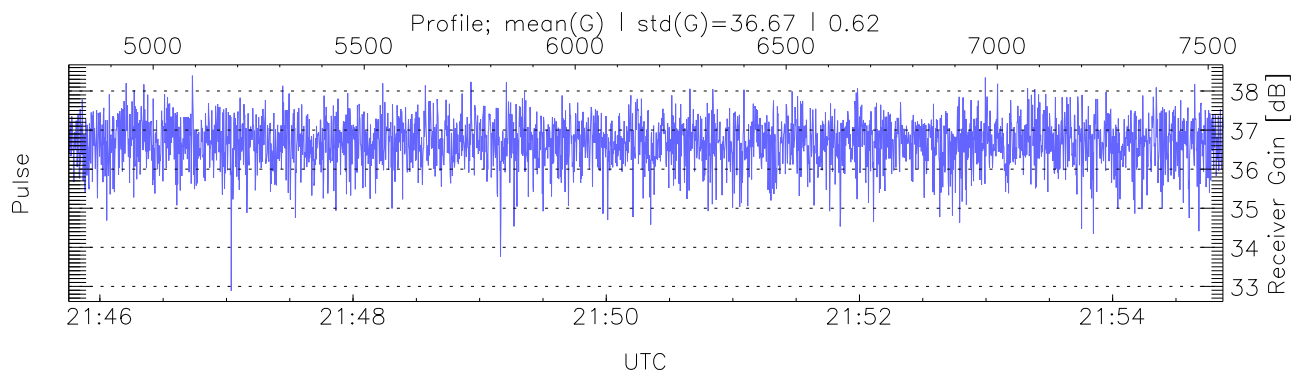
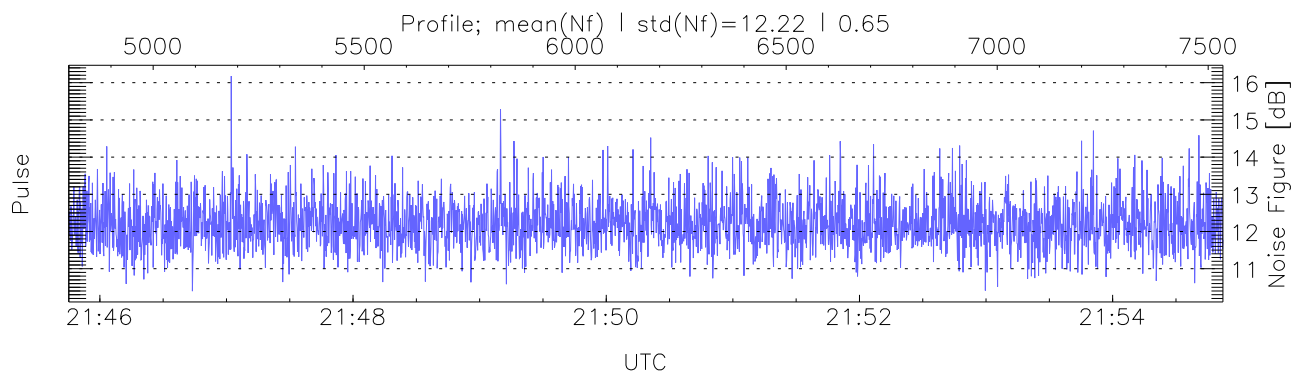
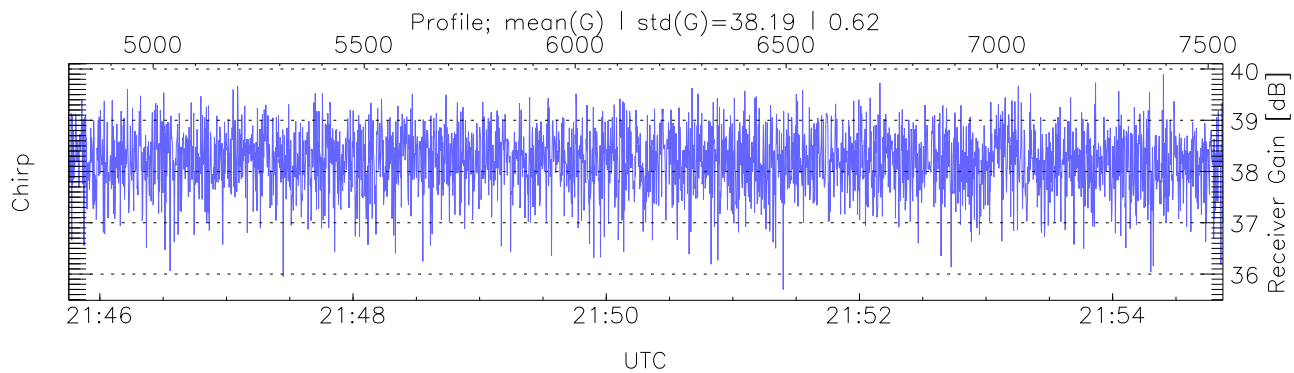
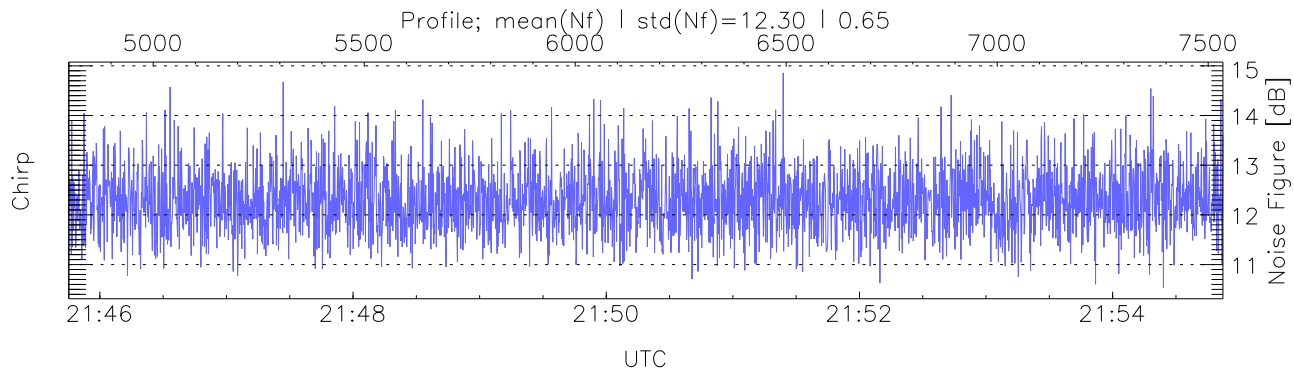


KPR SPP Temperatures, Power Supplies, PLO lock:

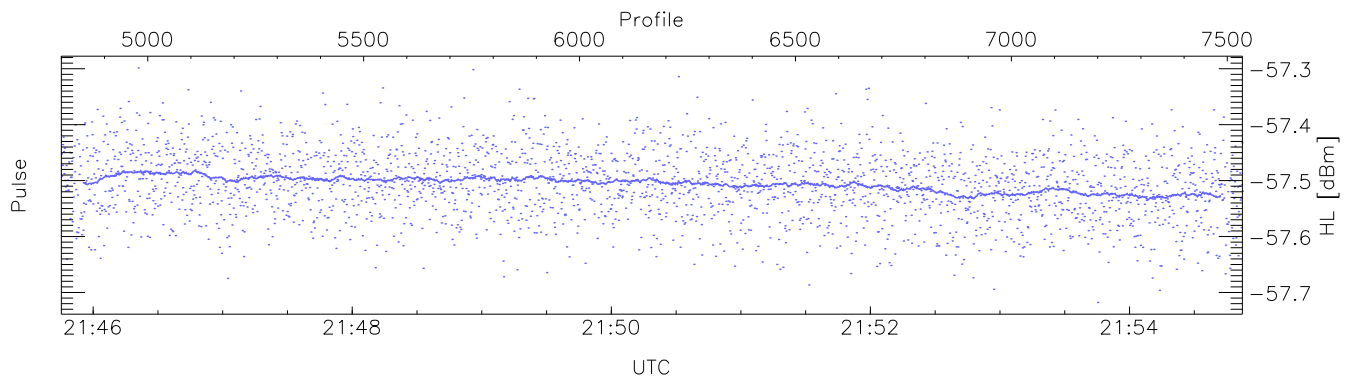
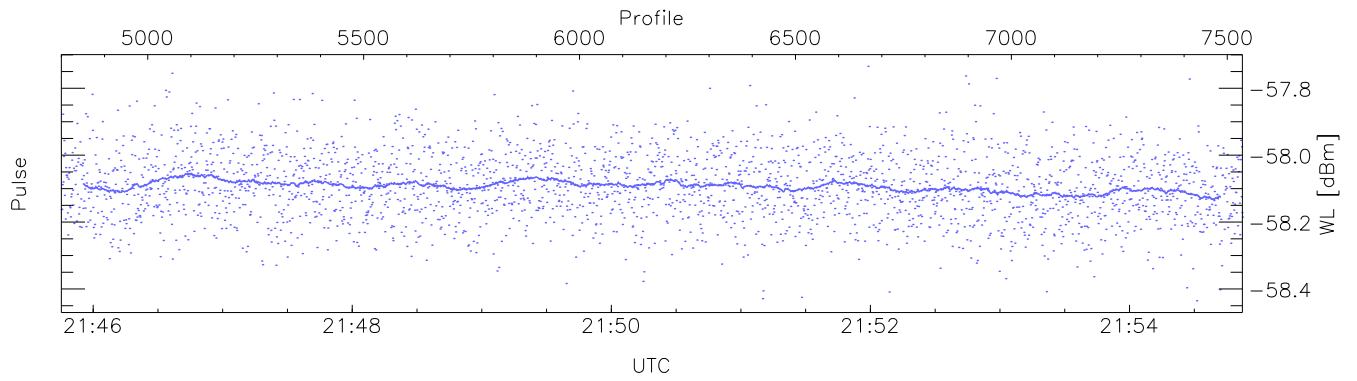
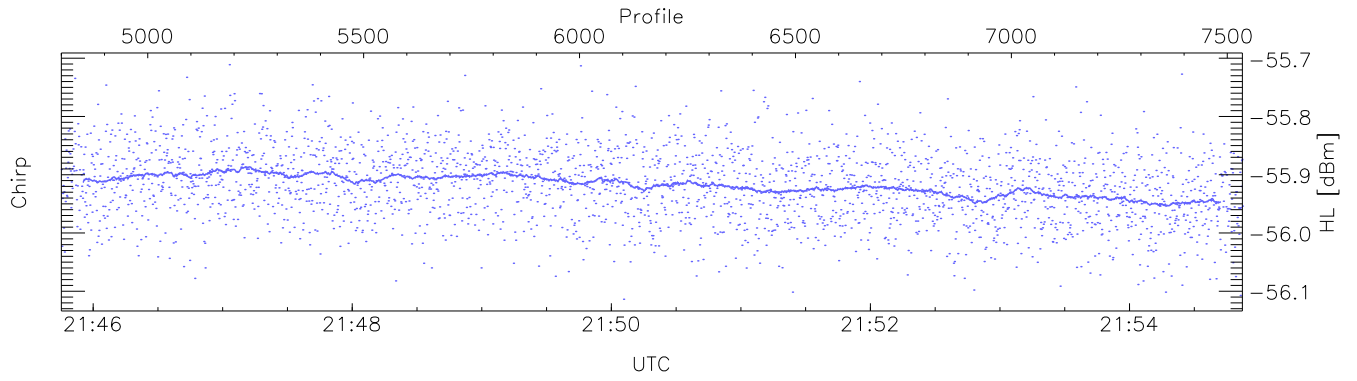
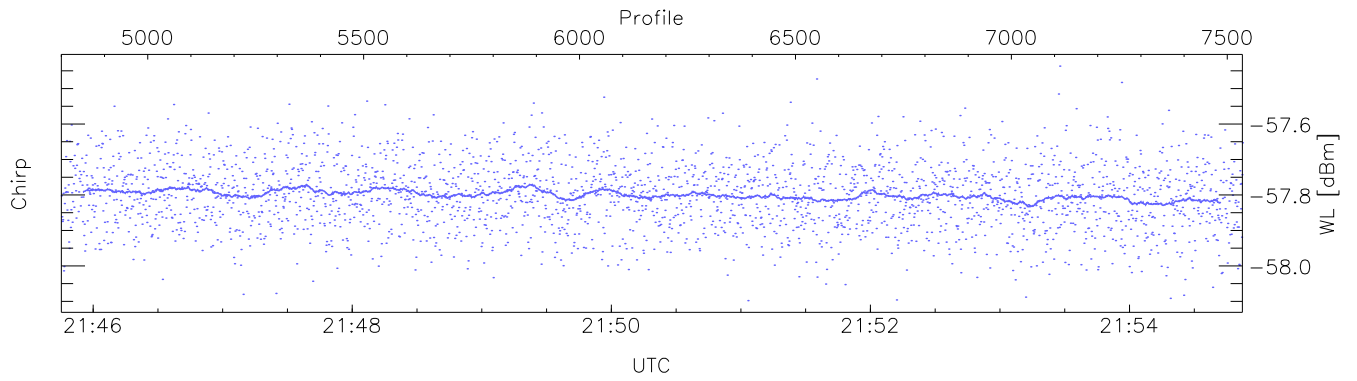
temperature: NS, LO, Tx, RM, LNA, Head, Ant  
 mintempC: 16.5, 17.5, 20.6, 12.5, 18.8, -12.3, 14.6  
 maxtempC: 17.6, 18.1, 21.5, 13.5, 19.8, -4.0, 18.1  
 meantempC: 17.0, 17.9, 21.1, 12.9, 19.3, -6.6, 16.1

PwrSply: 28, 12, 8, 5 VDC  
 minVDC: 25.65, 11.68, 7.87, 5.21  
 maxVDC: 27.91, 11.74, 7.90, 5.23  
 meanVDC: 26.88, 11.71, 7.88, 5.22

PLO(3.84,15.84 GHz) unlocked: None

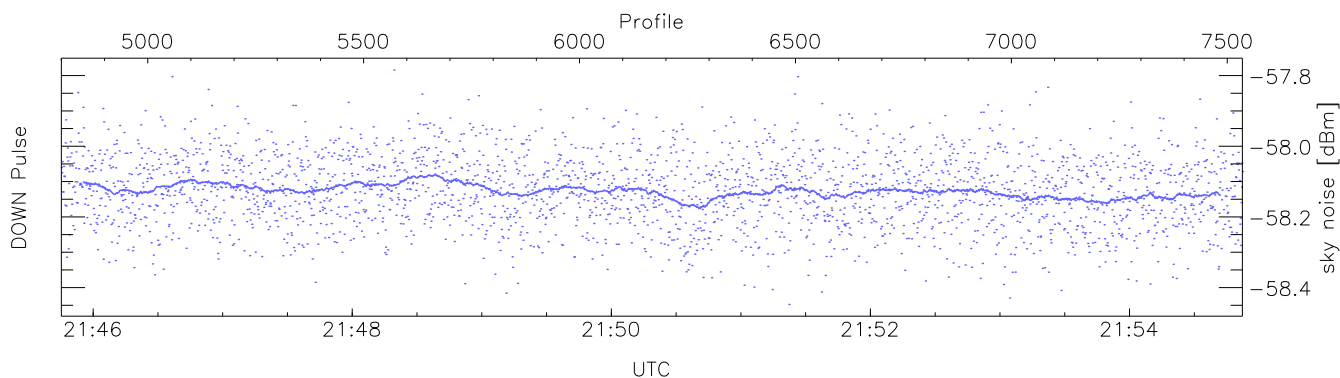
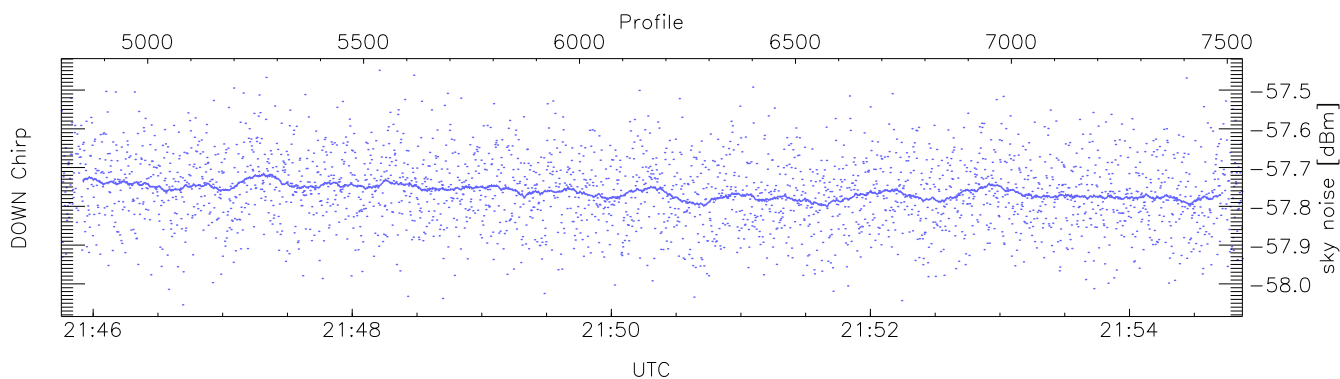
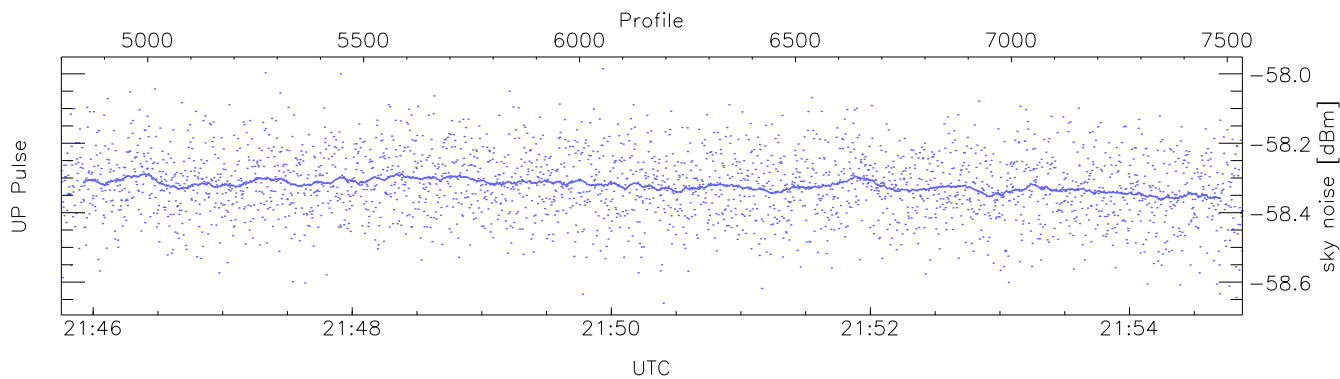
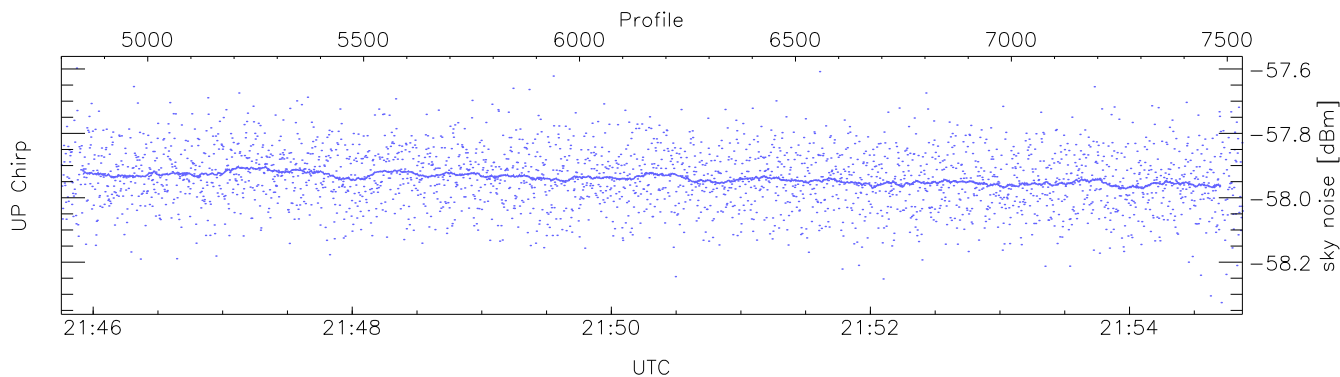


KPR SPP Receiver Gain and Noise Figure



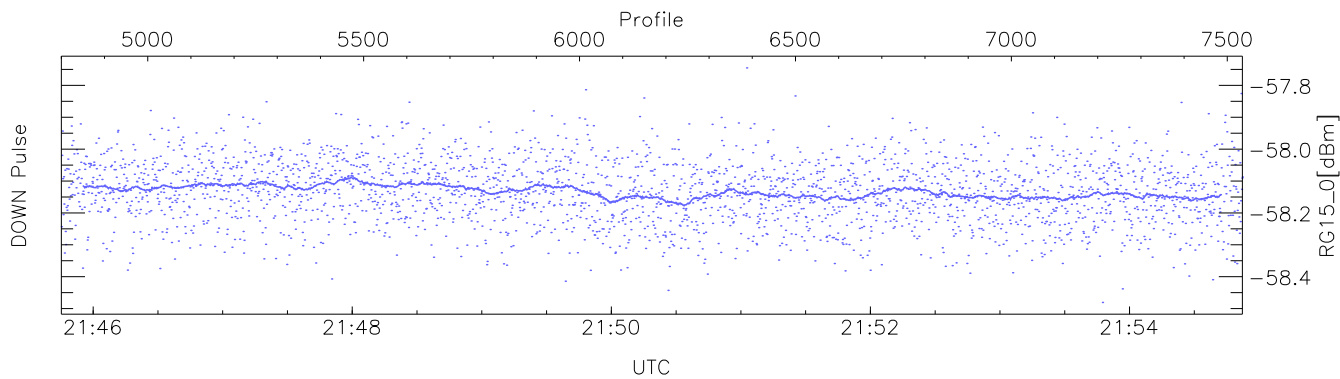
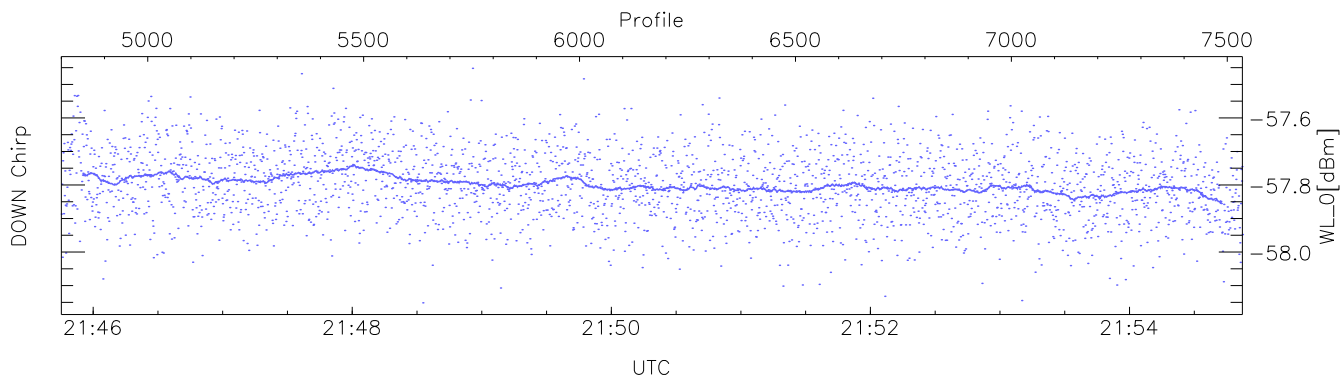
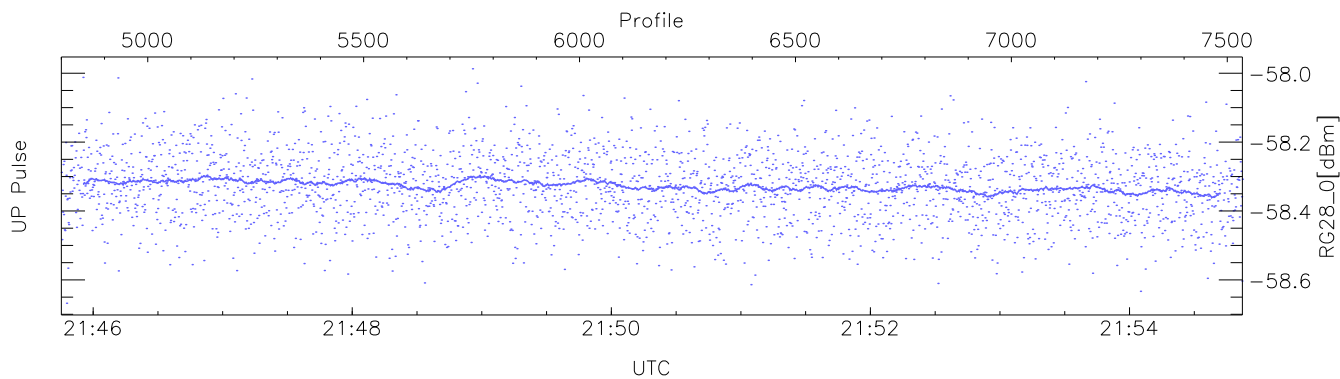
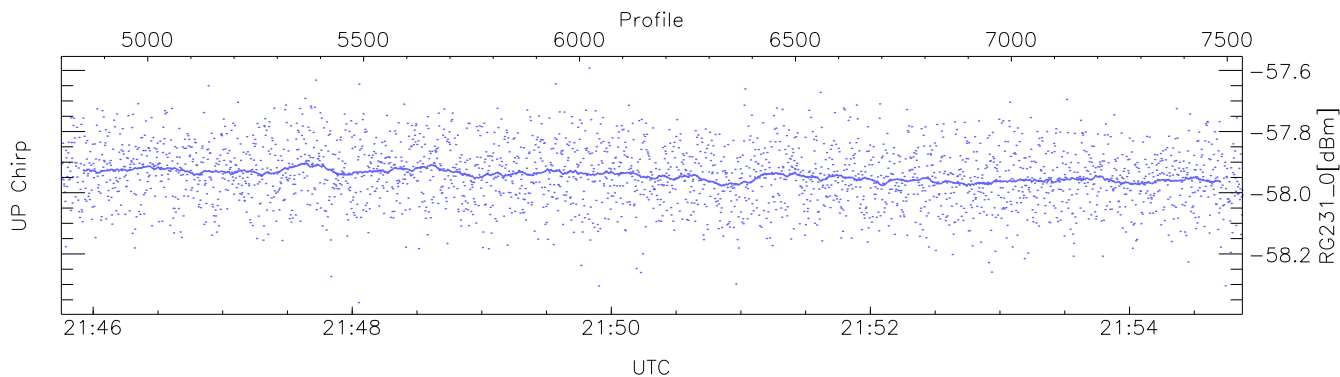
KPR SPP Receiver Noise Source Warm and Hot Measurements

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-58.10	-57.44	-57.80	-57.80	-74.42
Chirp(HL [dBm])	-56.11	-55.71	-55.92	-55.92	-74.39
Pulse(WL [dBm])	-58.44	-57.73	-58.09	-58.10	-74.48
Pulse(HL [dBm])	-57.72	-57.30	-57.51	-57.51	-76.13



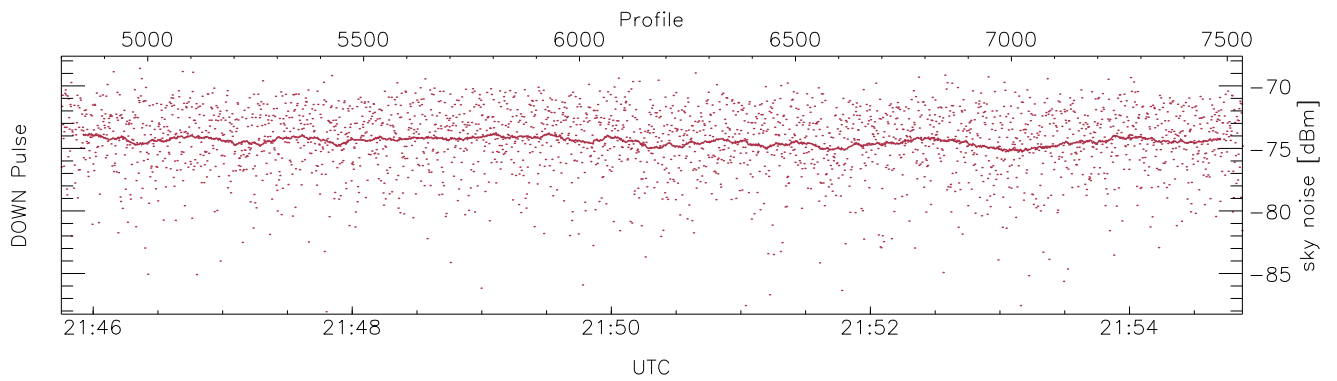
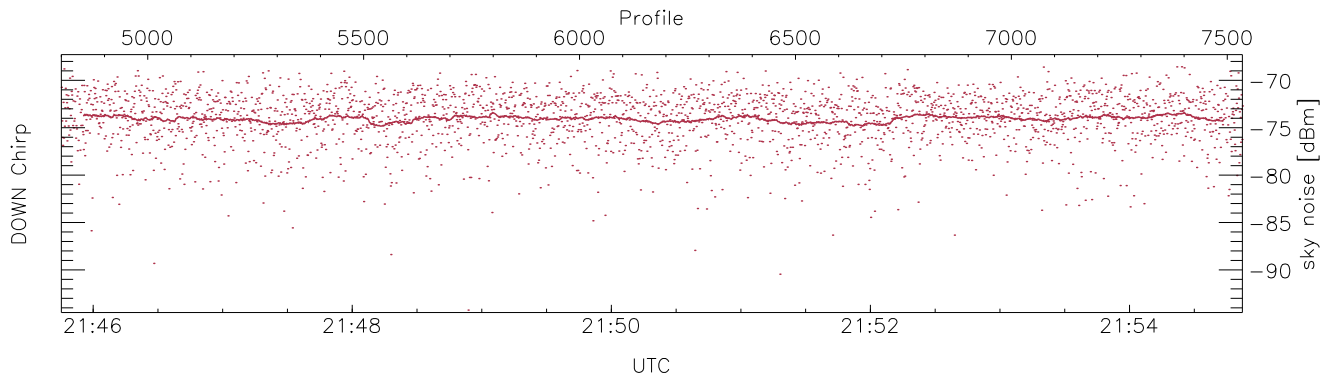
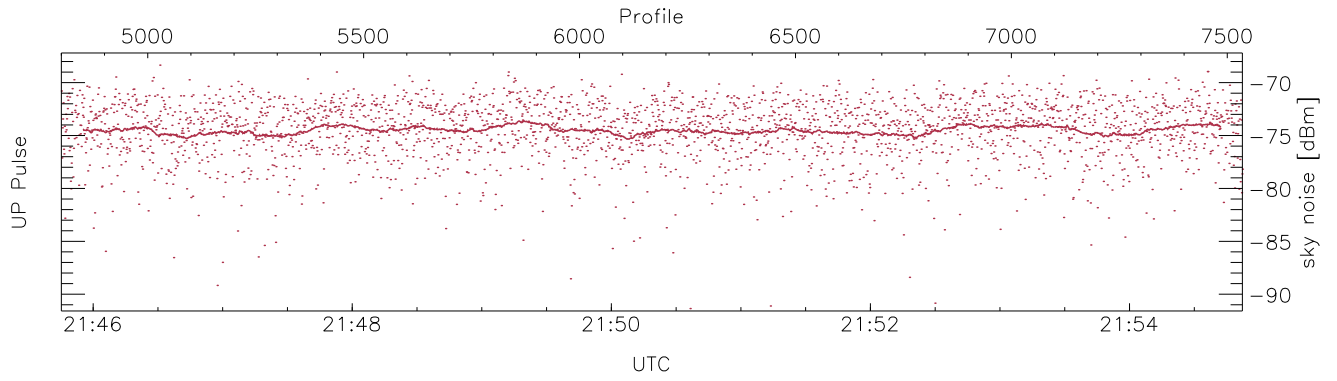
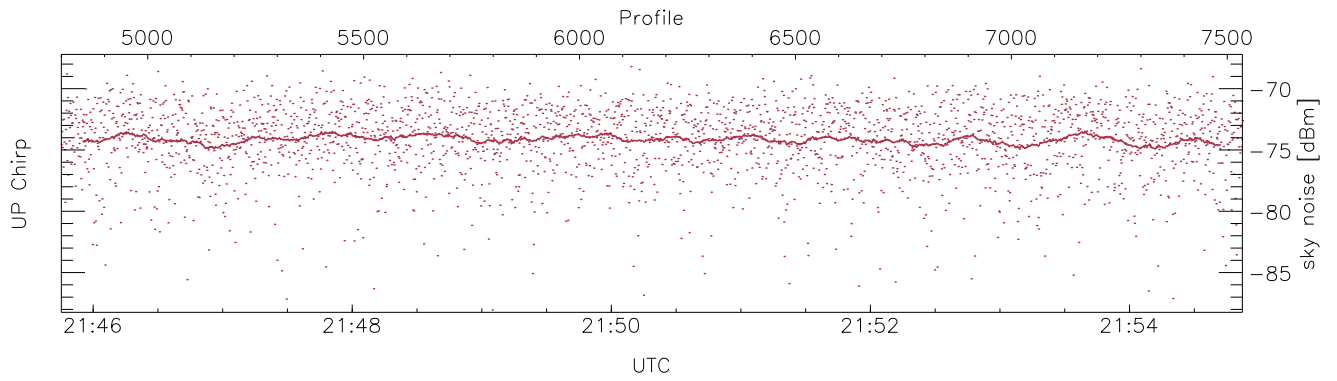
KPR SPP Last range gate power measurements: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-58.33	-57.60	-57.94	-57.94	-74.50
UP Pulse(dBm)	-58.66	-57.99	-58.32	-58.32	-74.82
DOWN Chirp(dBm)	-58.05	-57.45	-57.76	-57.76	-74.35
DOWN Pulse(dBm)	-58.45	-57.78	-58.13	-58.13	-74.53



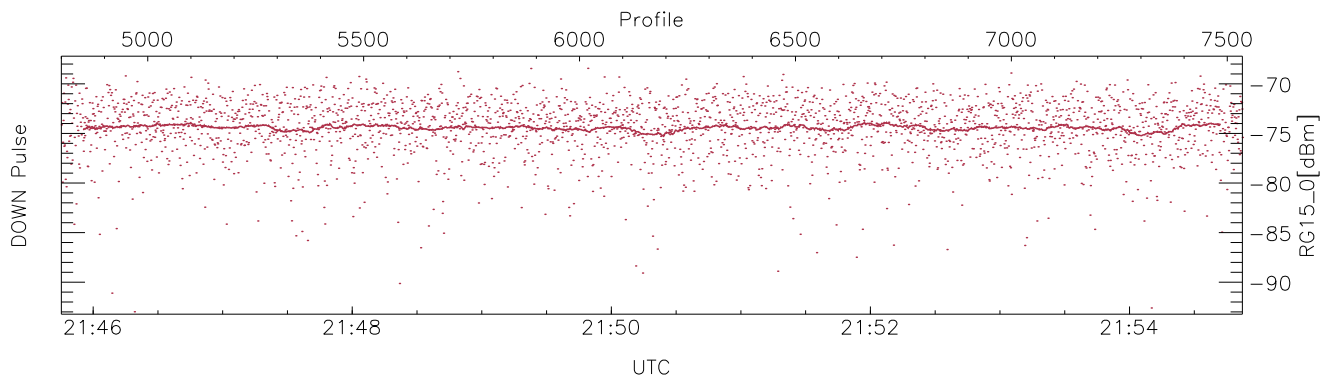
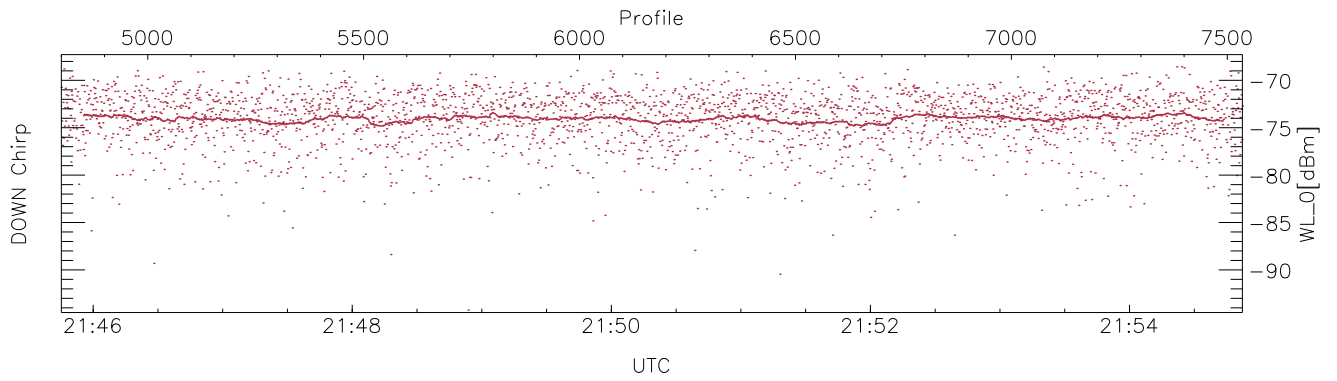
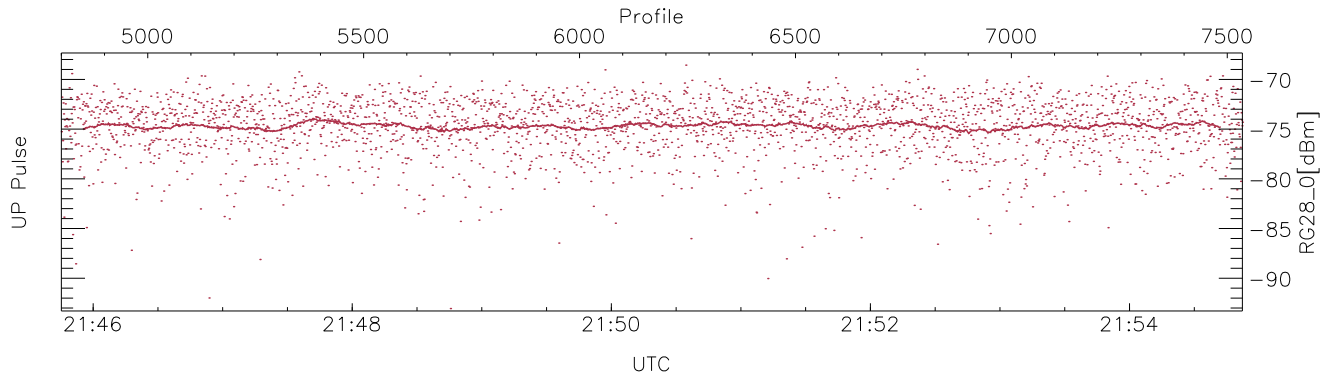
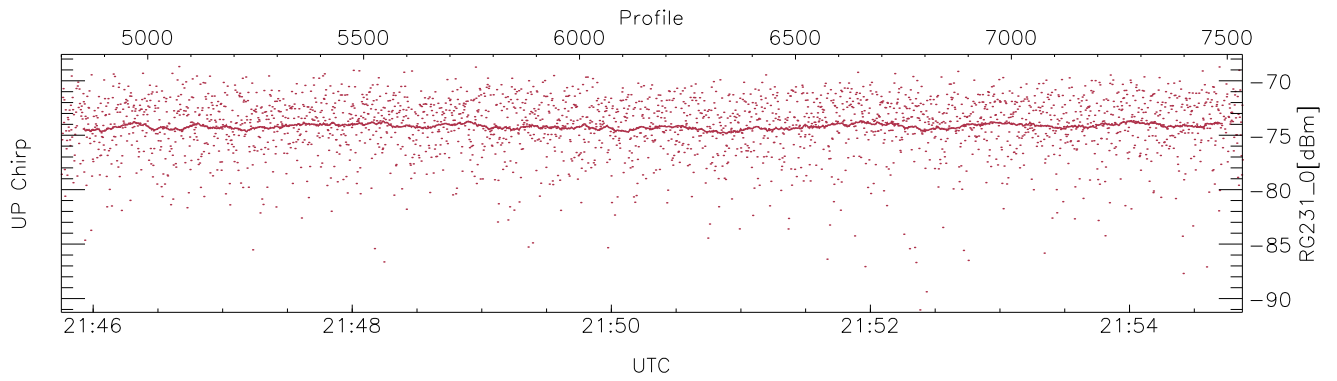
KPR SPP "Best" noise power measurements (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RG231_0	-58.36	-57.59	-57.94	-57.94	-74.32
UP_P_RG28_0	-58.67	-57.99	-58.33	-58.33	-74.78
DOWN_C_WL_0	-58.15	-57.45	-57.80	-57.80	-74.16
DOWN_P_RG15_0	-58.48	-57.75	-58.13	-58.13	-74.62



KPR SPP Last range gate PPMAG: assumed RM(sky) noise

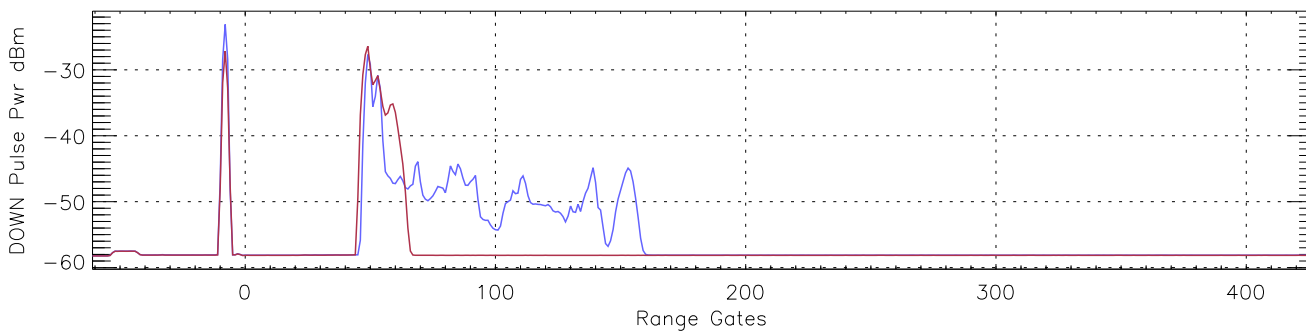
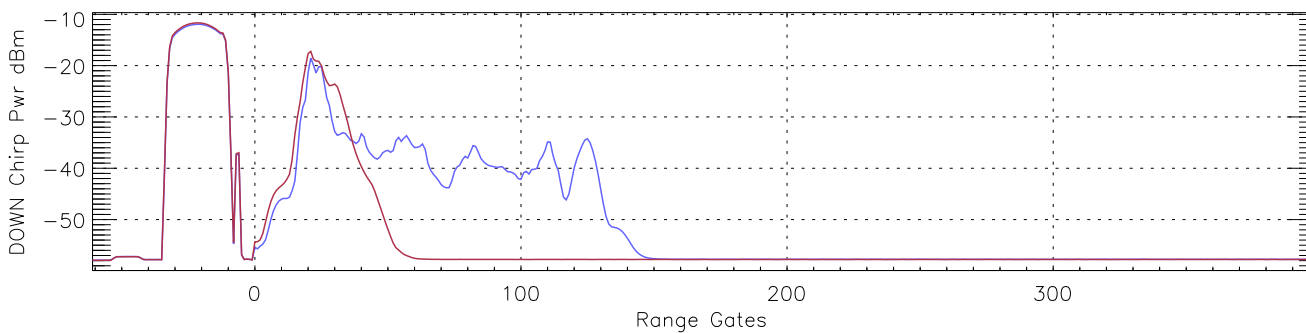
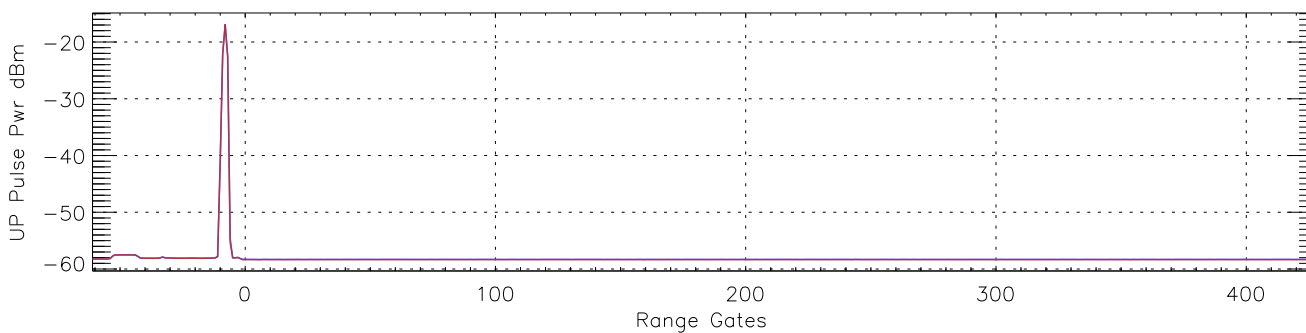
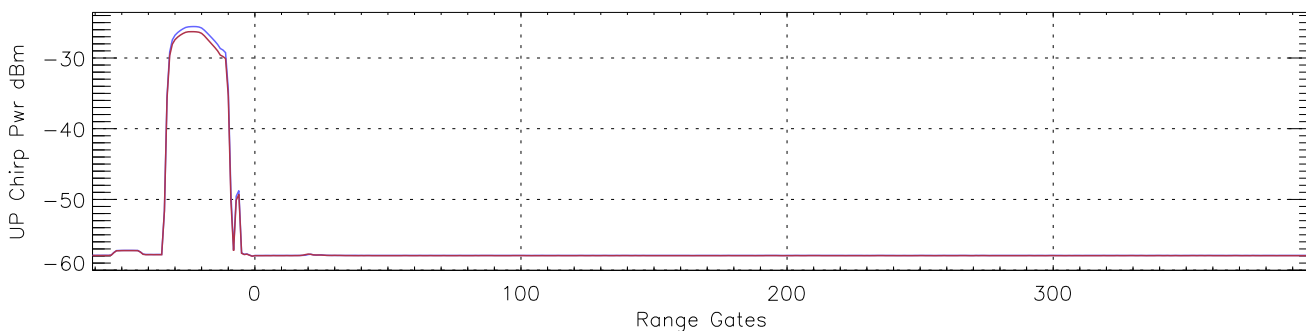
	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-88.05	-68.20	-73.42	-73.73	-76.16
UP Pulse(dBm)	-91.35	-68.35	-73.79	-74.06	-76.60
DOWN Chirp(dBm)	-94.24	-68.57	-73.33	-73.57	-76.14
DOWN Pulse(dBm)	-88.06	-68.60	-73.69	-73.95	-76.48



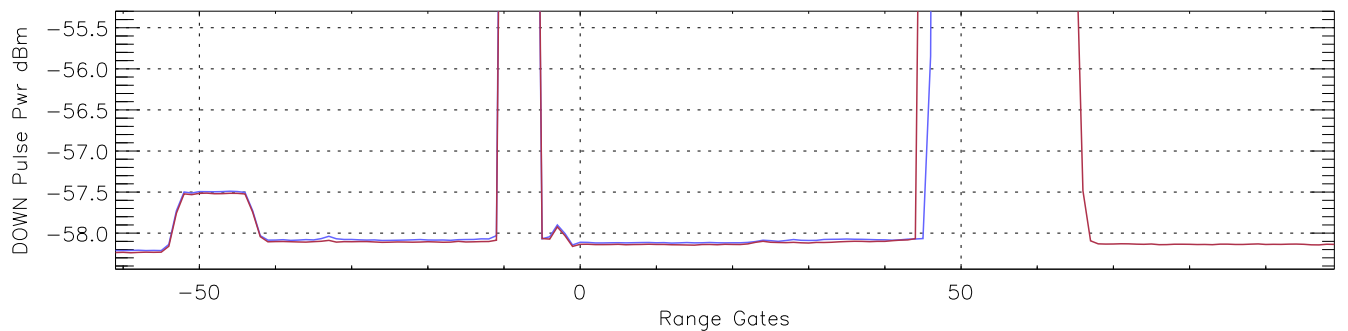
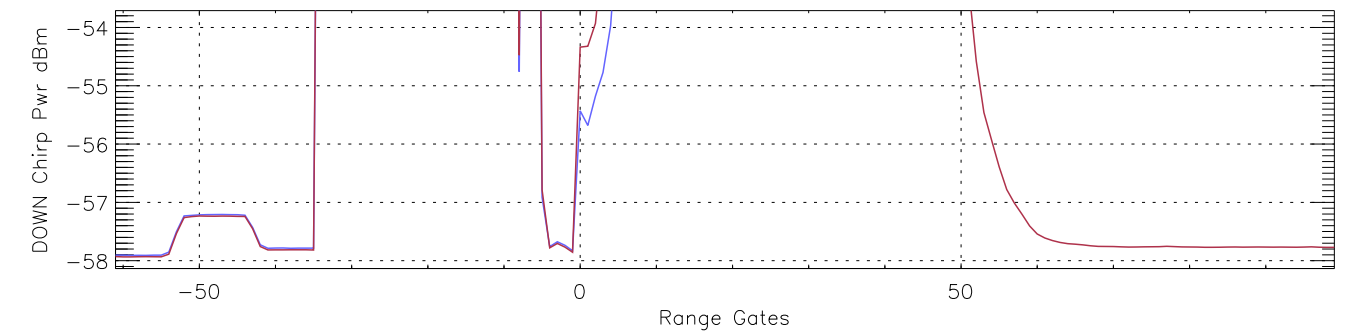
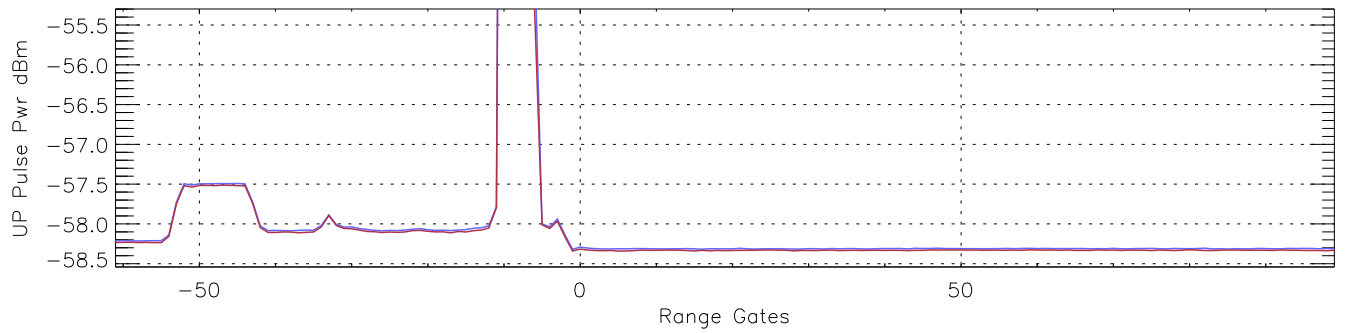
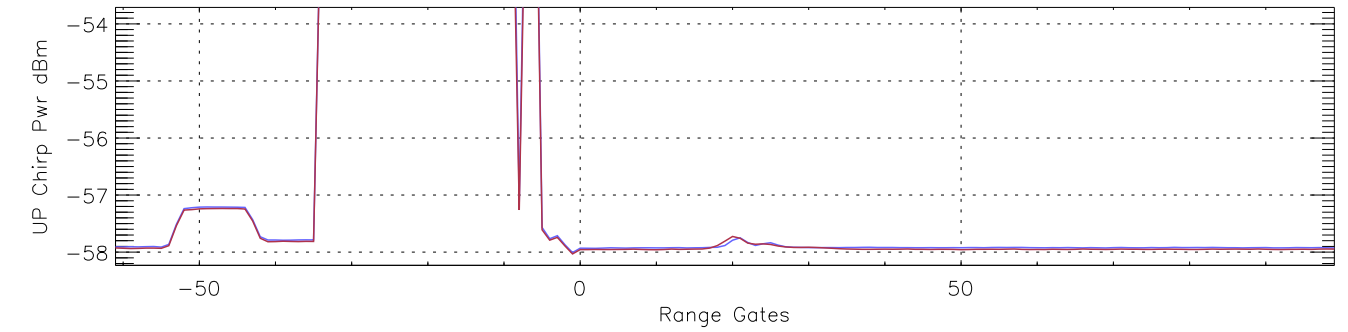
KPR SPP "Best" PPMAG noise (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RG231_0	-91.04	-68.69	-73.46	-73.71	-76.30
UP_P_RG28_0	-93.05	-68.57	-73.96	-74.24	-76.74
DOWN_C_WL_0	-94.24	-68.57	-73.33	-73.57	-76.14
DOWN_P_RG15_0	-92.98	-68.44	-73.67	-73.96	-76.44

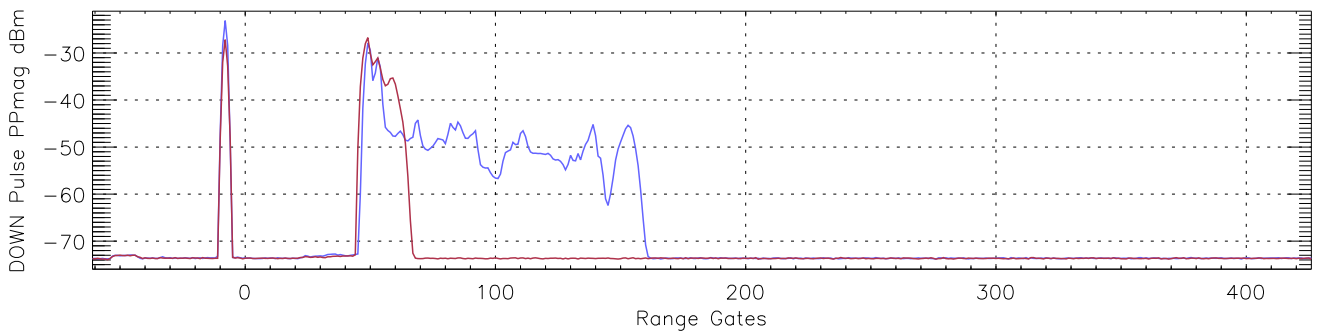
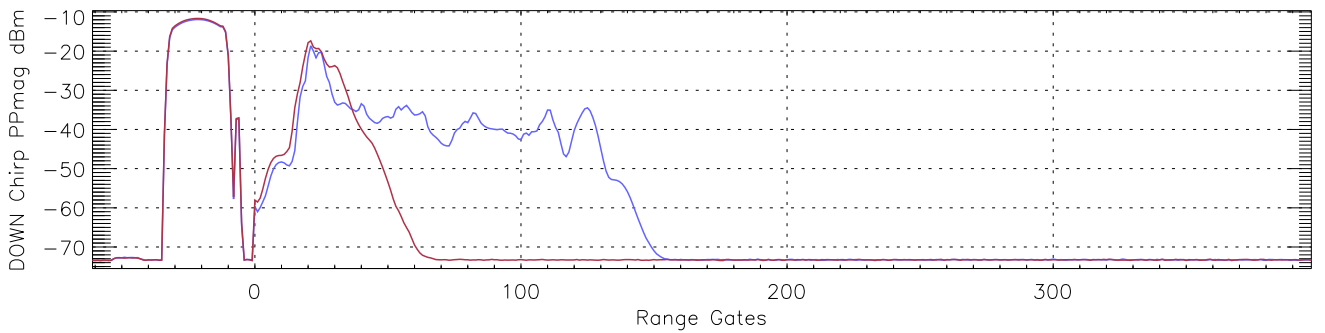
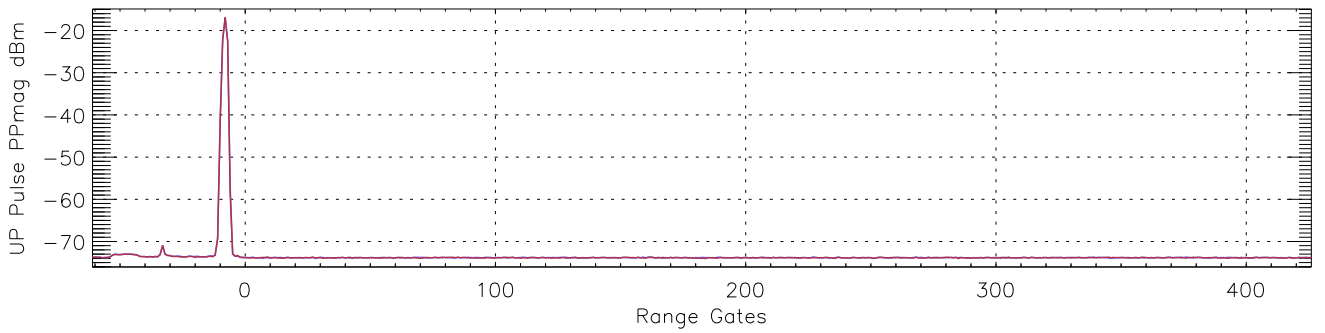
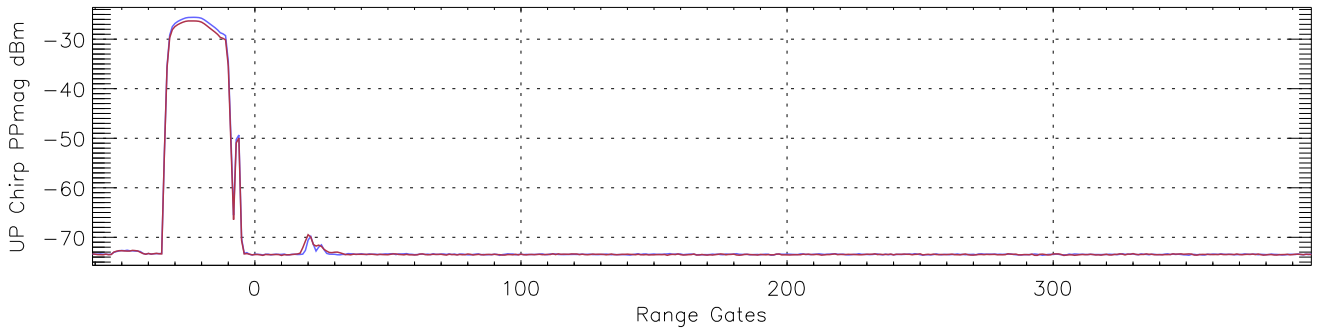




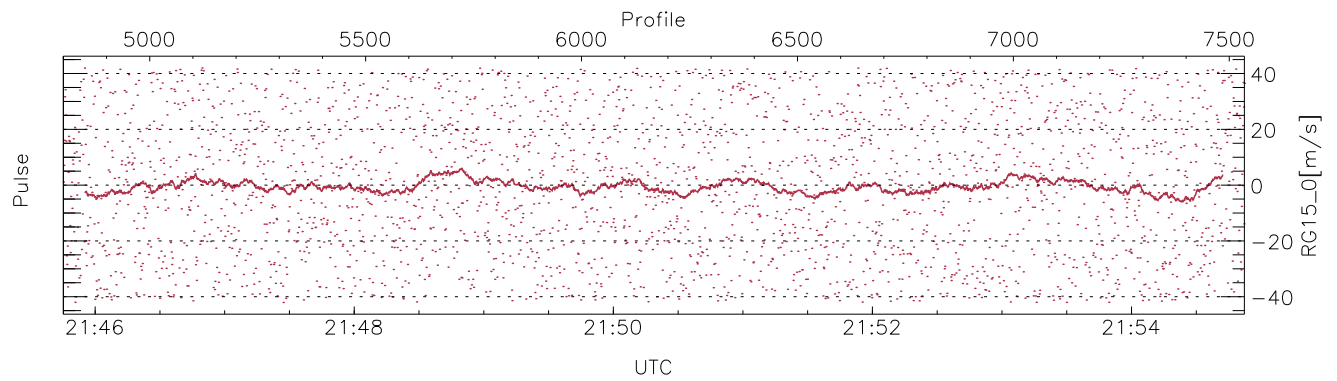
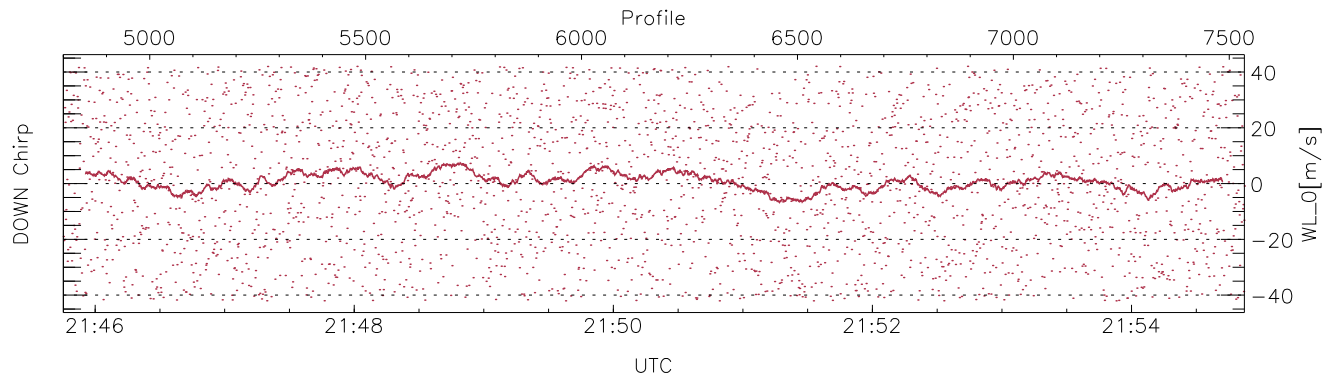
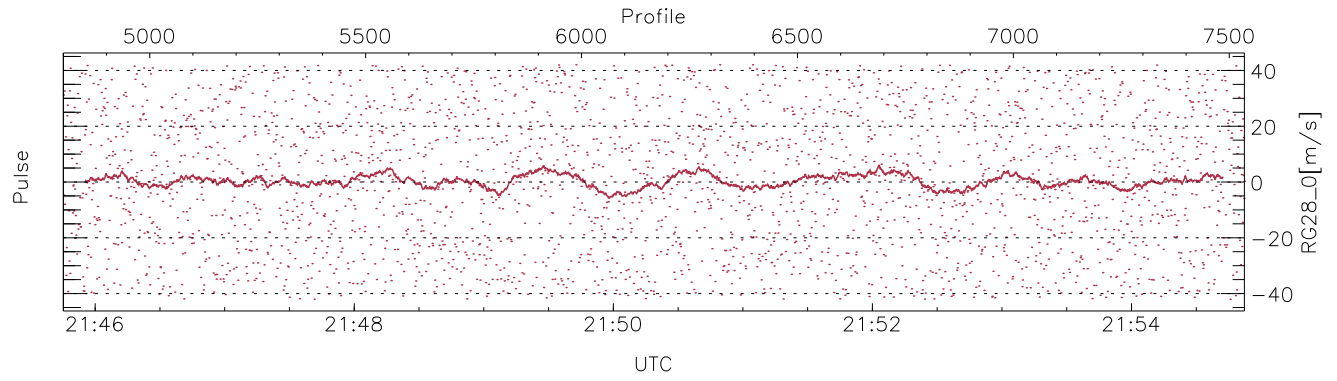
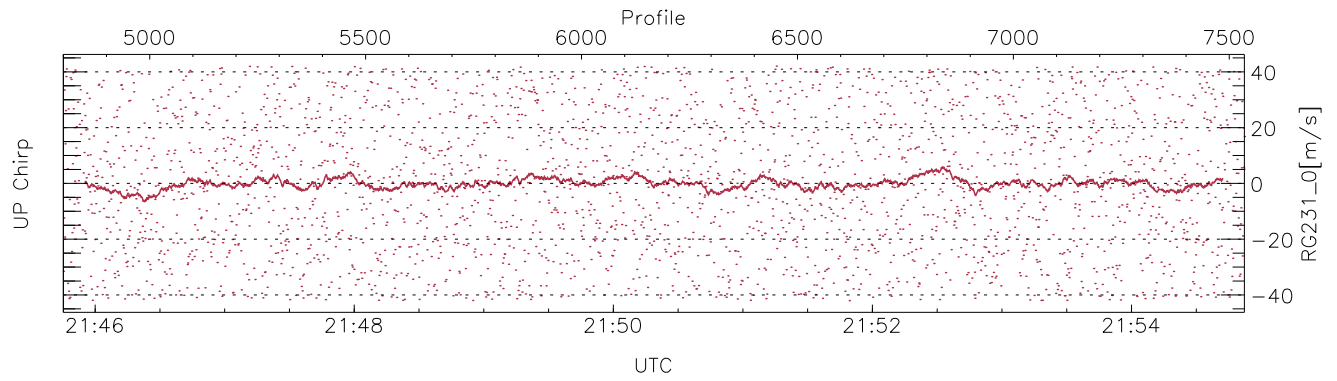
KPR SPP Averaged Received power for all recorded gates  
blue: 214545-215018, 1369 profiles averaged  
red: 215018-215452, 1368 profiles averaged



KPR SPP Averaged Power for neg. gates & up to 100 gates  
blue: 214545-215018, 1369 profiles averaged  
red: 215018-215452, 1368 profiles averaged

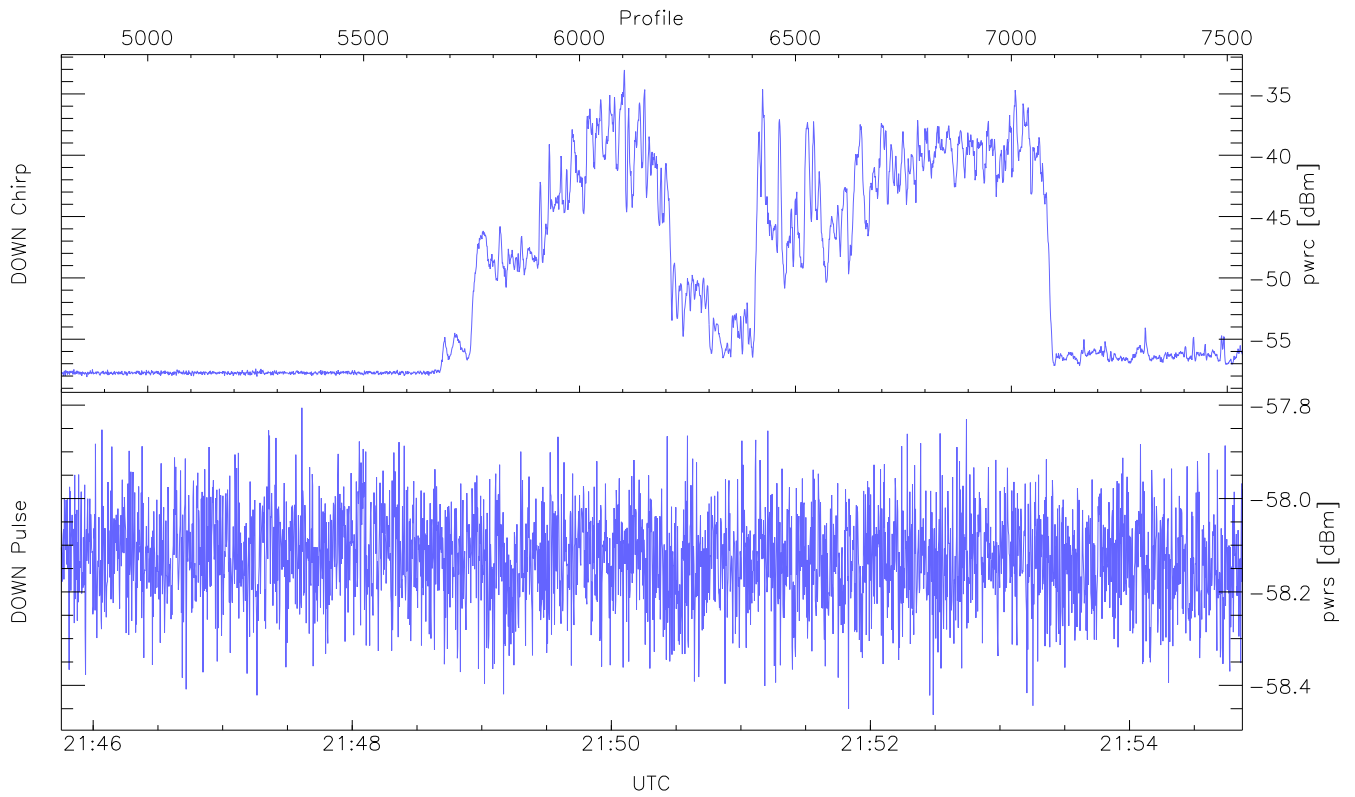
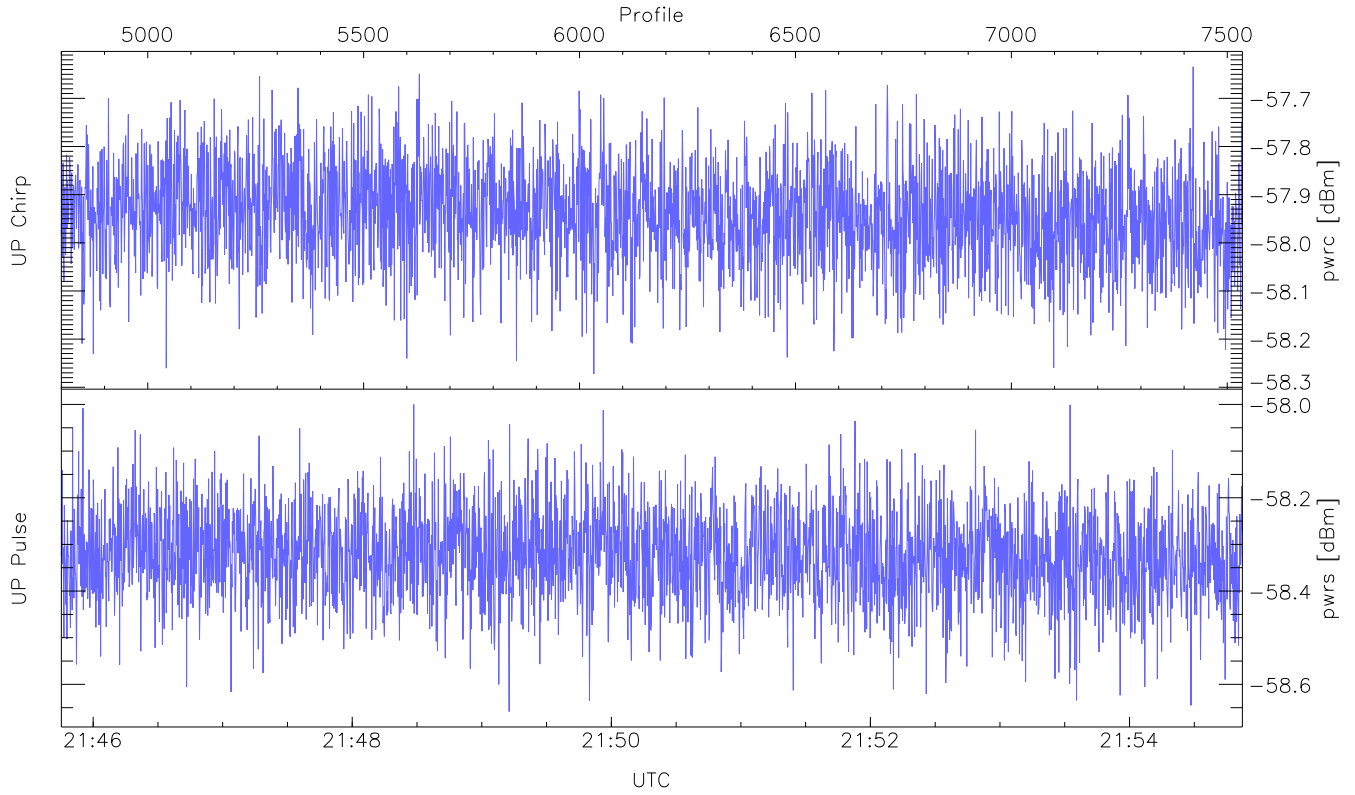


KPR SPP Averaged PP magnitude for all recorded gates  
blue: 214545-215018, 1369 profiles averaged  
red: 215018-215452, 1368 profiles averaged



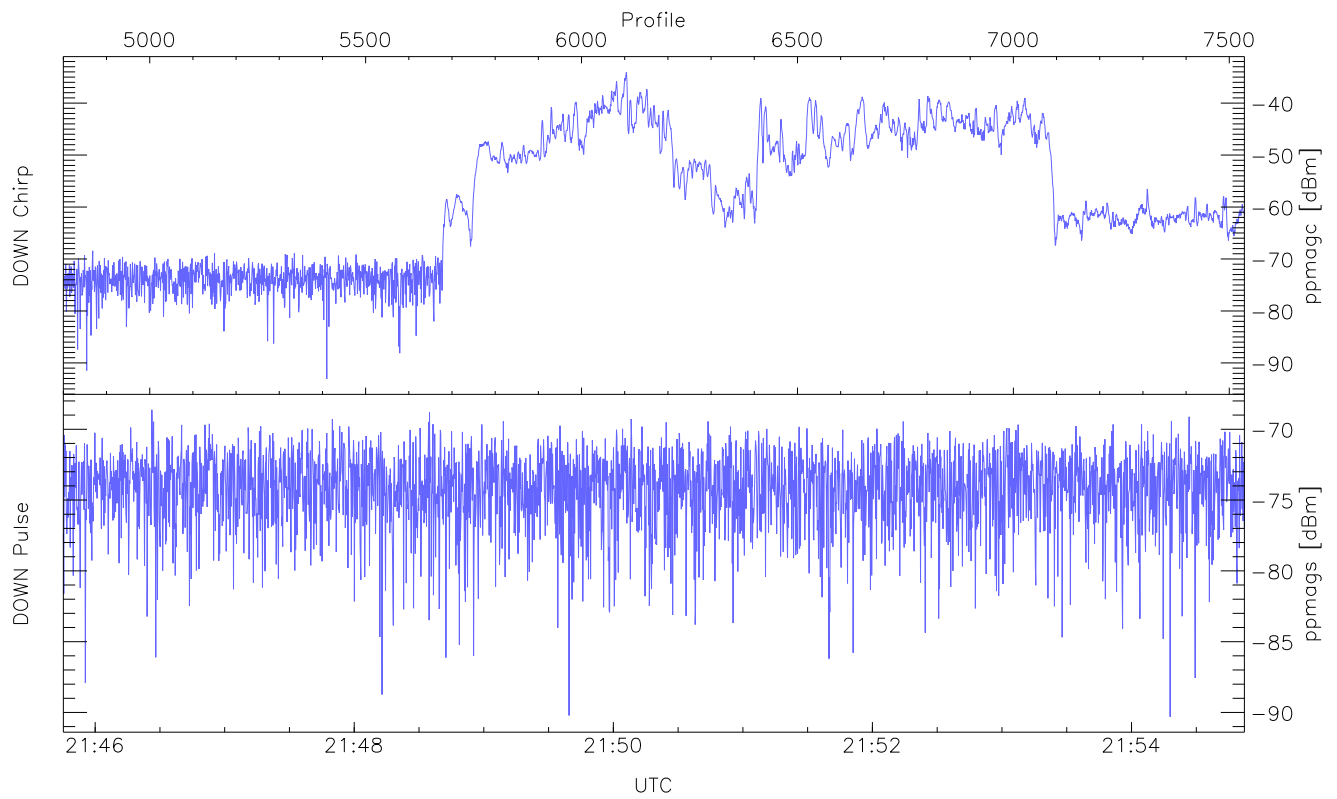
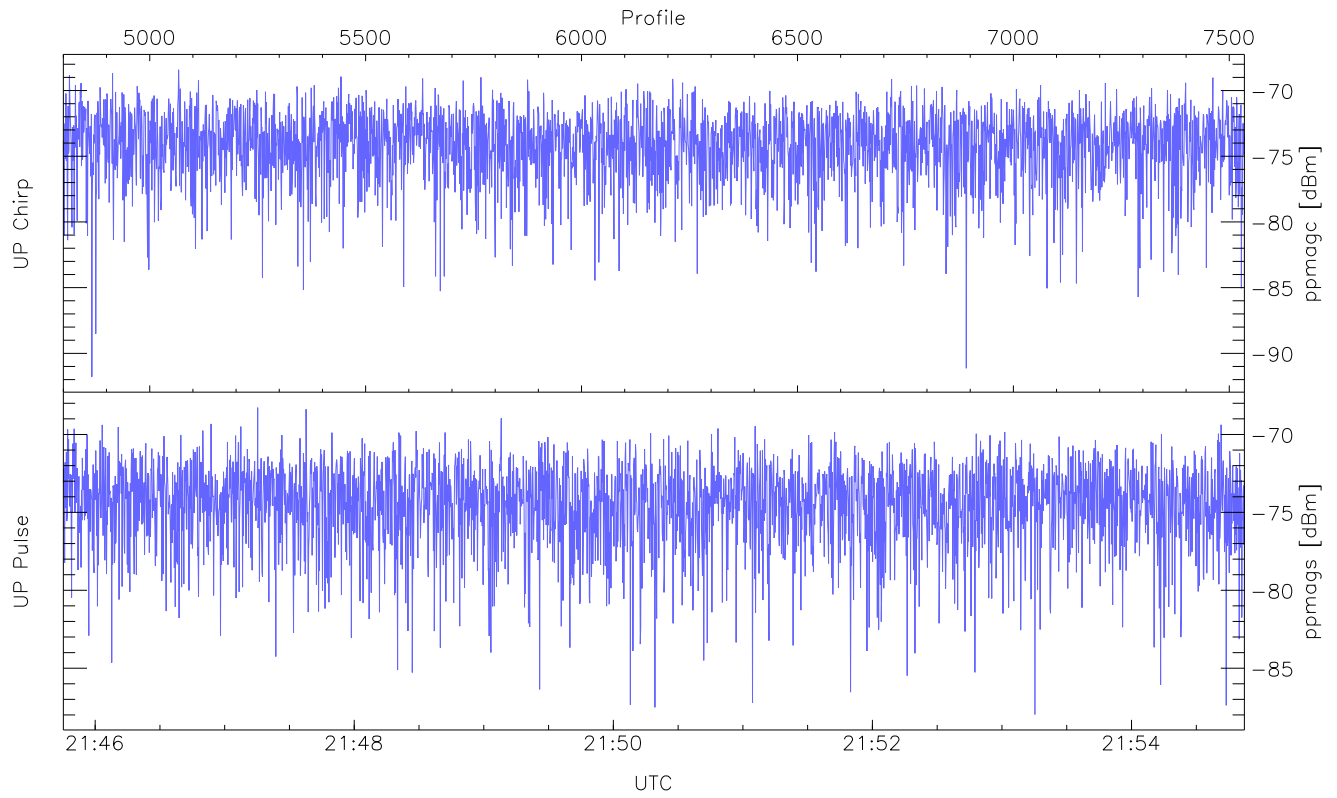
KPR SPP "Best" PPVEL noise (m/s):

	Min	Max	Mean	Median	StDev
UP_C_RG231_0	-42.04	42.05	-0.16	-0.68	24.12
UP_P_RG28_0	-42.03	42.04	0.28	0.41	23.93
DOWN_C_WL_0	-42.06	42.03	0.74	1.22	24.15
DOWN_P_RG15_0	-42.06	42.00	-0.48	-0.60	24.26



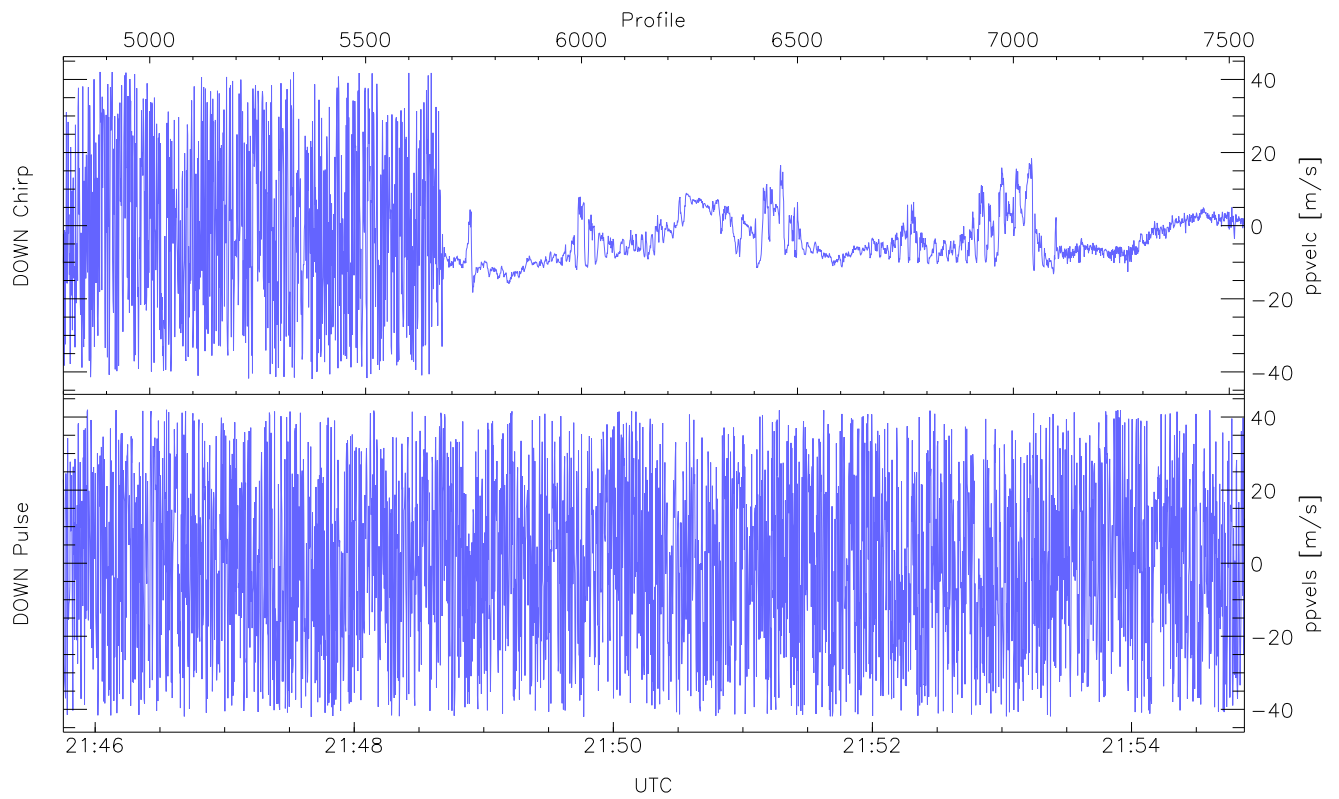
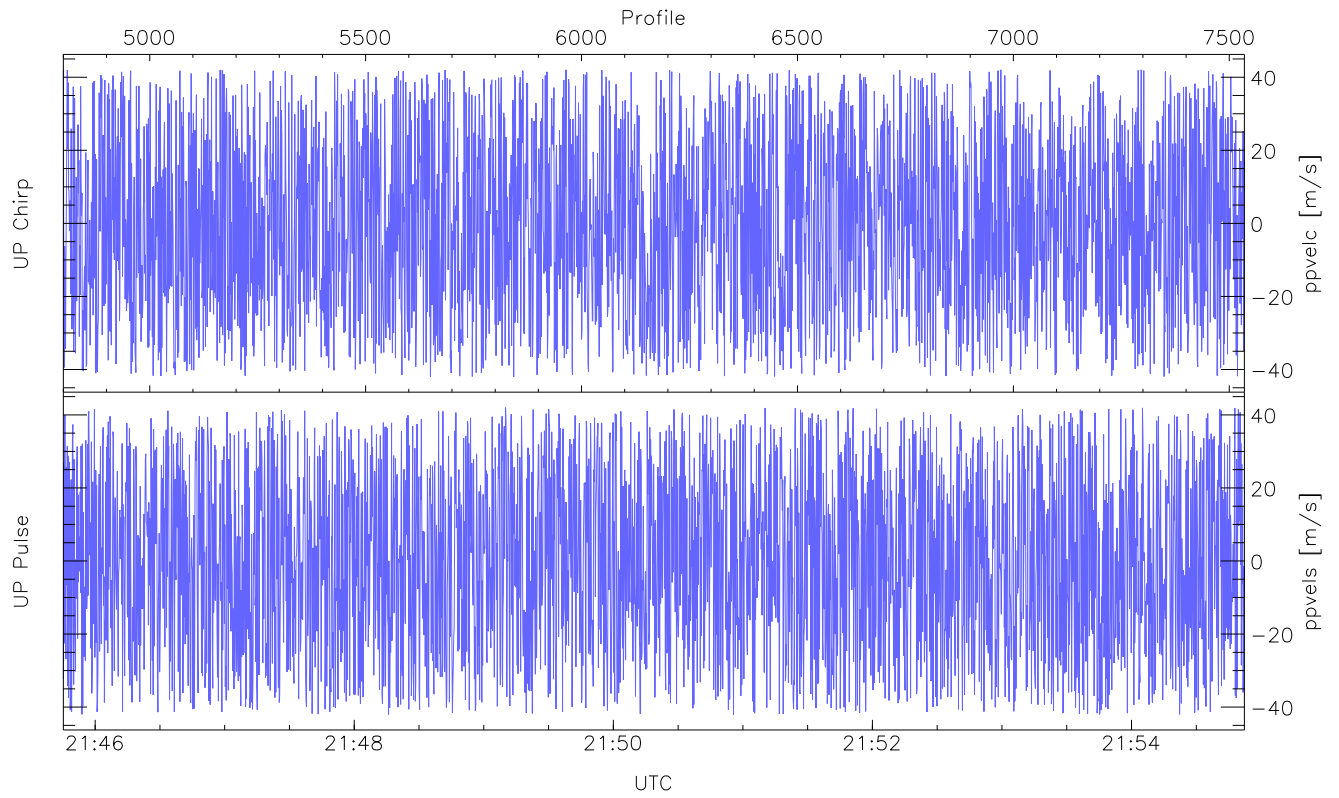
KPR SPP Received Power for Chirp Range gate 10 (686.2 m)  
 KPR SPP Received Power for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-58.27	-57.63	-57.94
UP Pulse(dBm)	-58.66	-58.00	-58.32
DOWN Chirp(dBm)	-58.08	-33.05	-44.51
DOWN Pulse(dBm)	-58.46	-57.81	-58.13



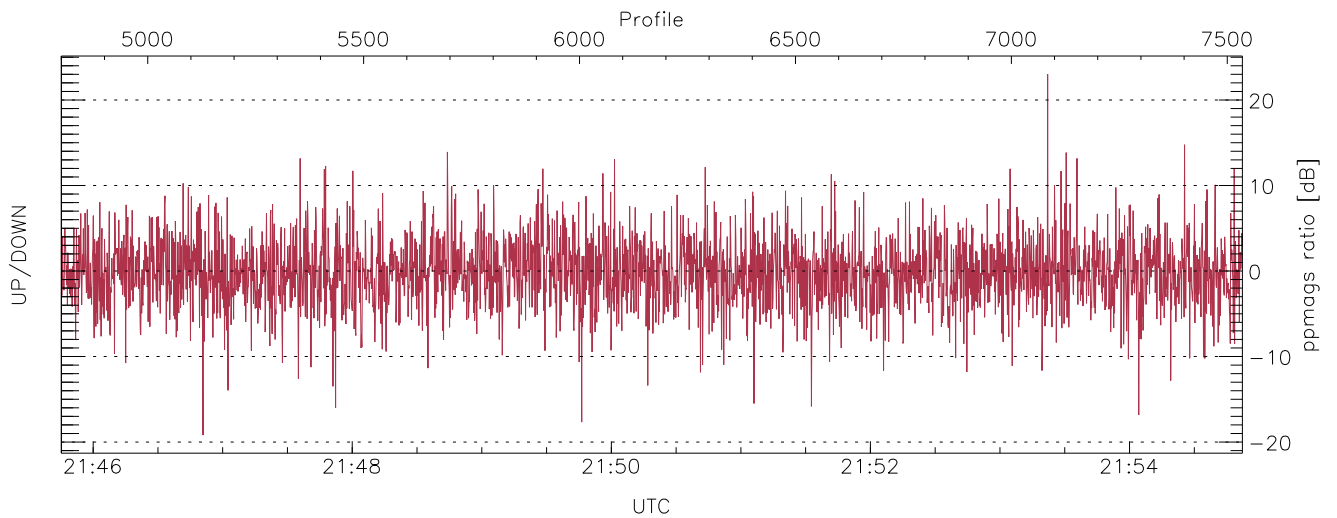
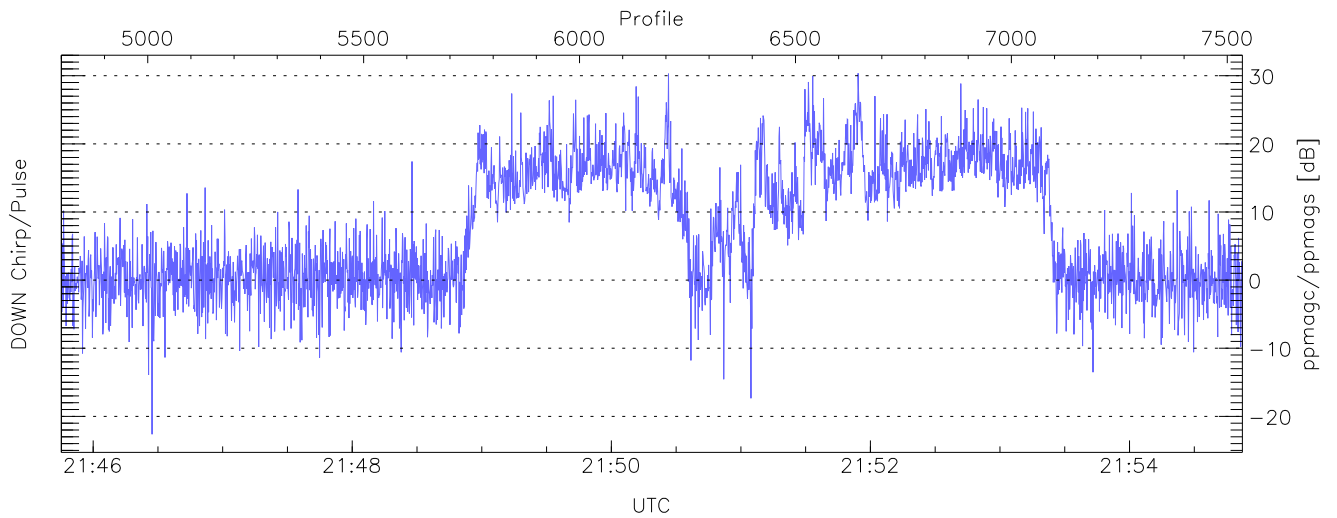
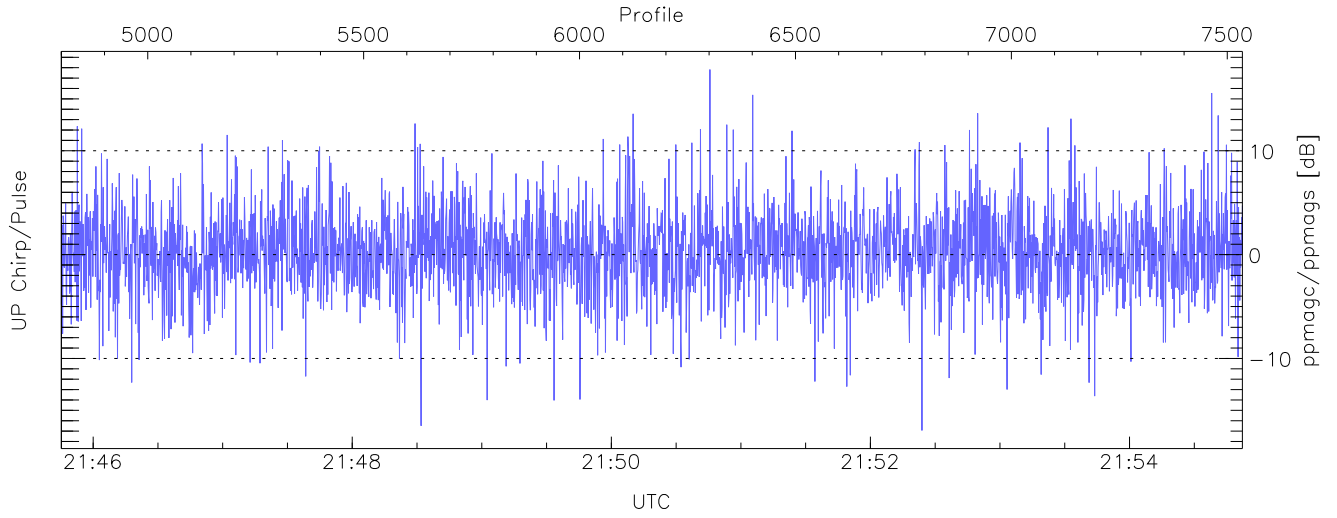
KPR SPP PPMAG for Chirp Range gate 10 (686.2 m)  
 KPR SPP PPMAG for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-91.79	-68.42	-73.56
UP Pulse(dBm)	-87.98	-68.27	-73.89
DOWN Chirp(dBm)	-93.10	-34.01	-47.38
DOWN Pulse(dBm)	-90.31	-68.62	-73.62



KPR SPP PPVEL for Chirp Range gate 10 (686.2 m)  
 KPR SPP PPVEL for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(m/s)	-42.01	42.04	-0.29
UP Pulse(m/s)	-42.06	42.01	-0.12
DOWN Chirp(m/s)	-41.94	42.04	-2.79
DOWN Pulse(m/s)	-42.03	41.99	-0.01



KPR SPP PPMAG Chirp/Pulse; Range gate: 551.3m /570.5m

	Min	Max	Mean
UP Chirp/Pulse(dBm)	-16.94	17.83	2.23
DOWN Chirp/Pulse(dBm)	-22.63	30.36	15.02
UP/DOWN Ratio at Range 135.8 m			
	Min	Max	Mean
UP/DOWN(dB)	-19.19	23.03	1.88