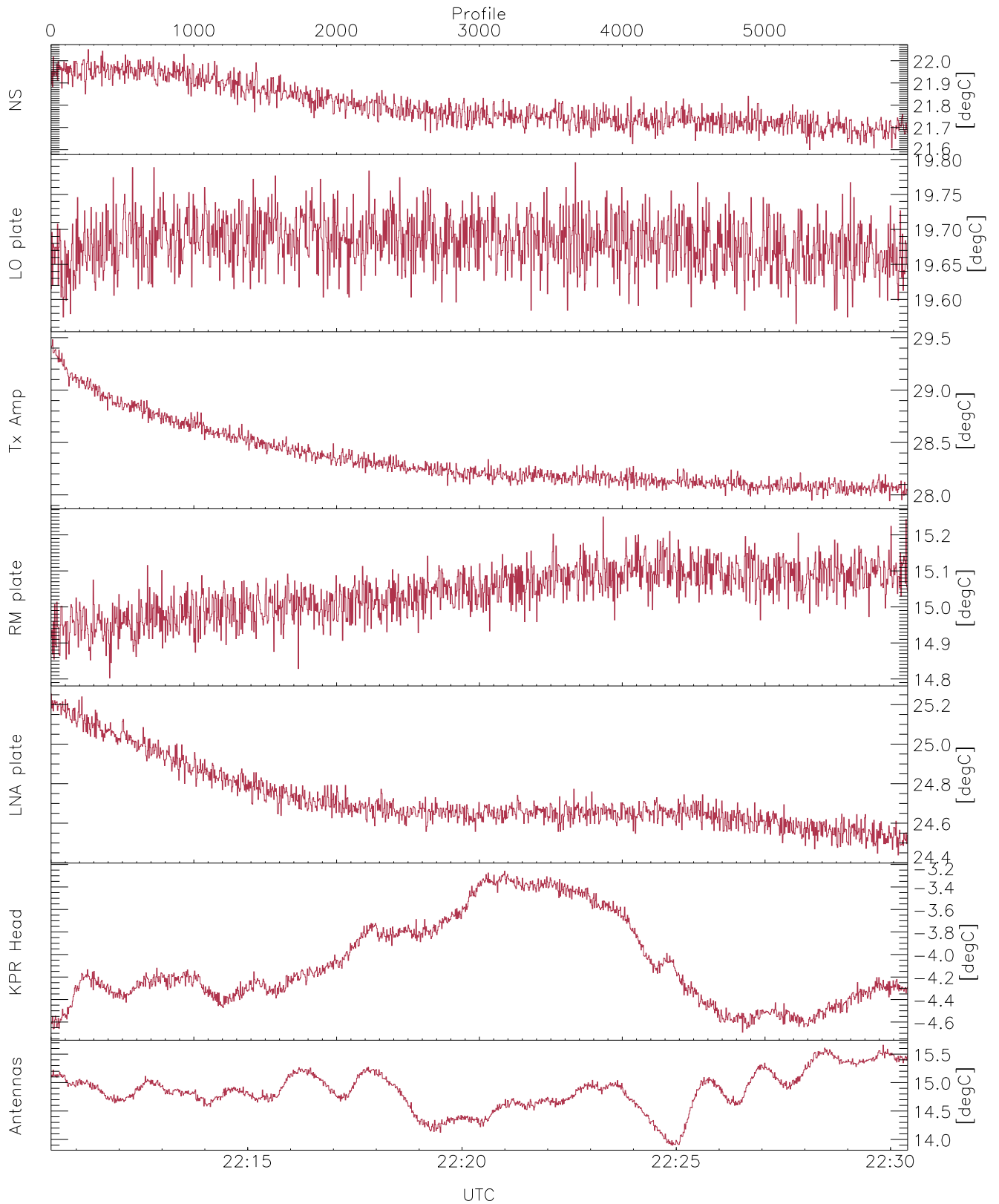


KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF  
 UTC: 22:10:25-22:37:09, TimeCor: 0.00s, Dur: 1199.32s  
 TimeInt(min,max,mn,std): 196.6,203.2,199.9,0.1 ms; PPS: 5.0  
 NumRec(r/t): 6000/8028, 0-5999/22:10:25-22:30:24  
 AcqTime(req,actual): 199.9,200.0 ms, Data Rate: 97.4 KB/s  
 Pulse: 494 ns, Chirp: 4.94 us, DRxIF: 2.5 MHz  
 PRF: 19.0 KHz, avrgPulses: 1904, avrgPP: 952  
 NyquistVel: 40.1 m/s, RangeRes:60.0 m  
 Pulse Range(min,max): 166, 6492 m, Gates: 212  
 Chirp Range(min,max): 1016, 6472 m, Gates: 183  
 RangeGateSampling: 30.0 m, Aspect: 1.7

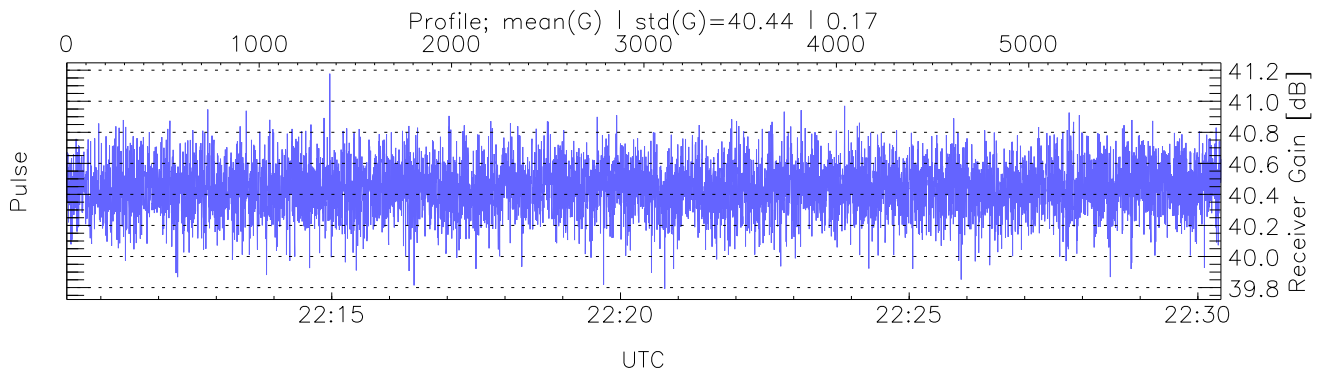
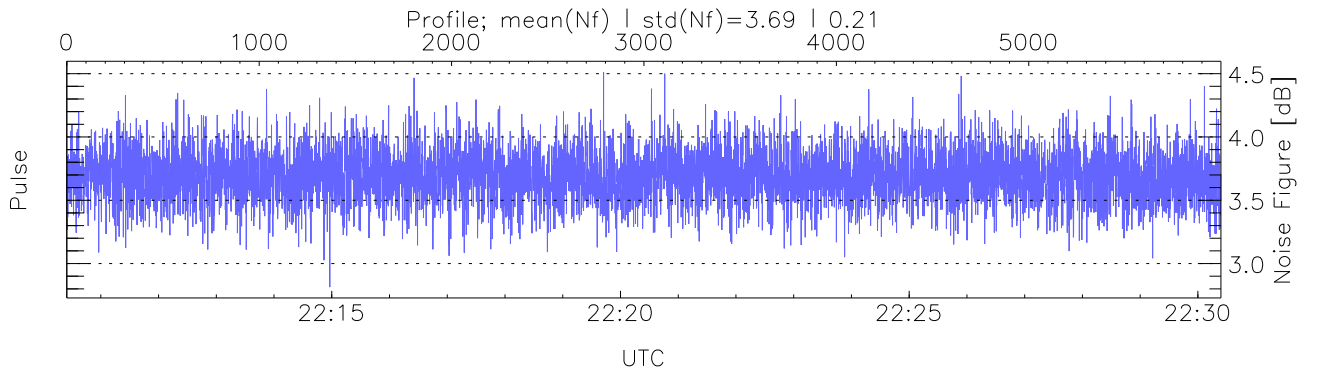
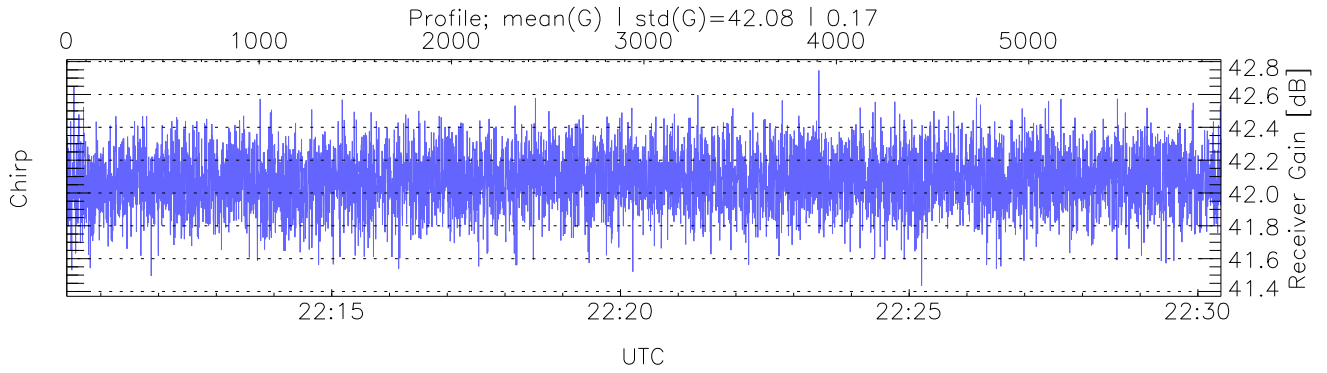
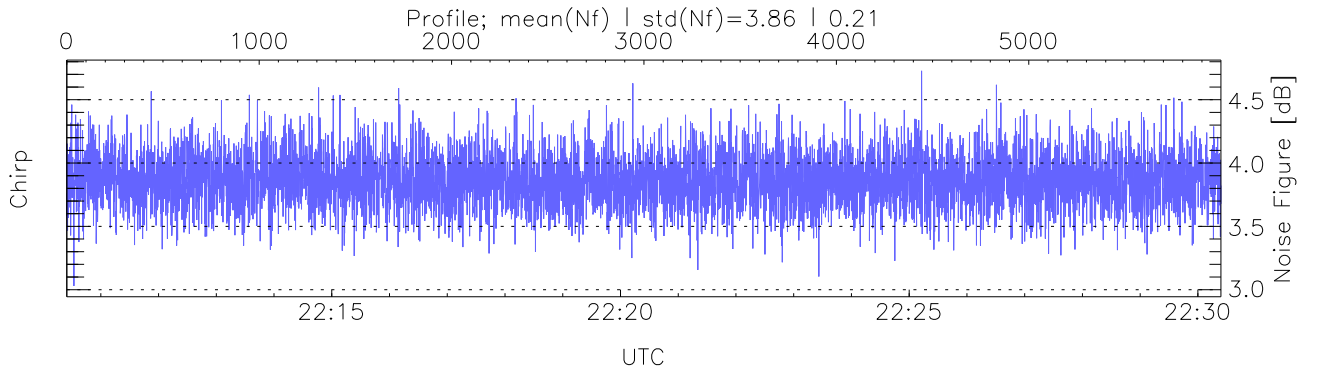


KPR SPP Temperatures, Power Supplies, PLO lock:

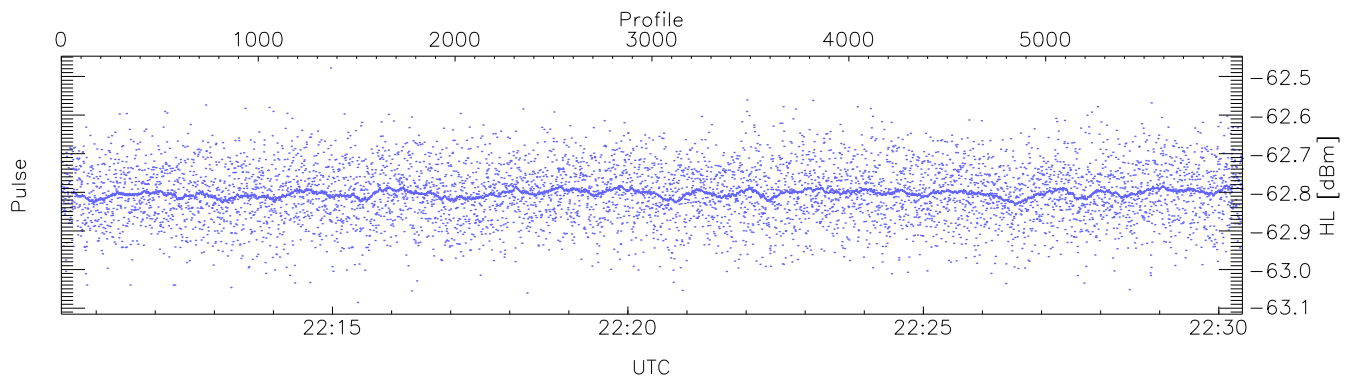
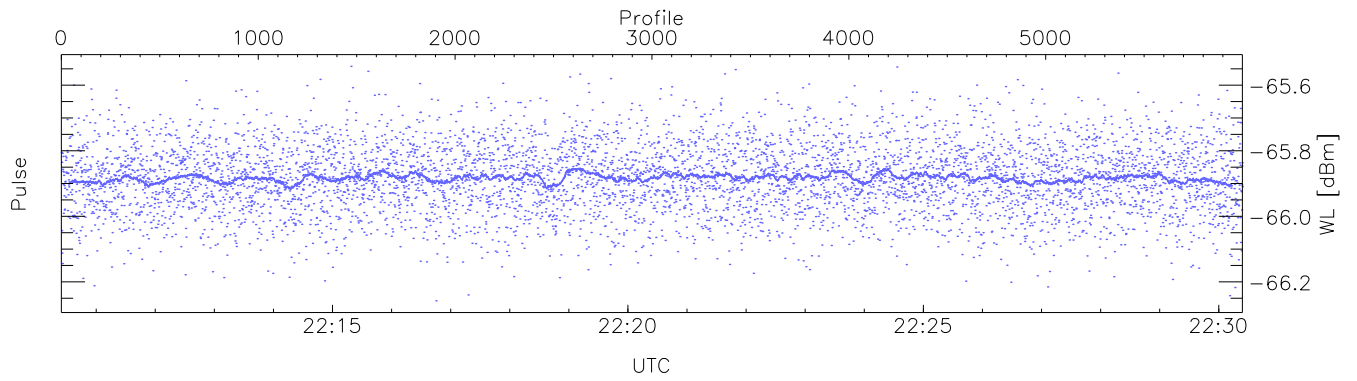
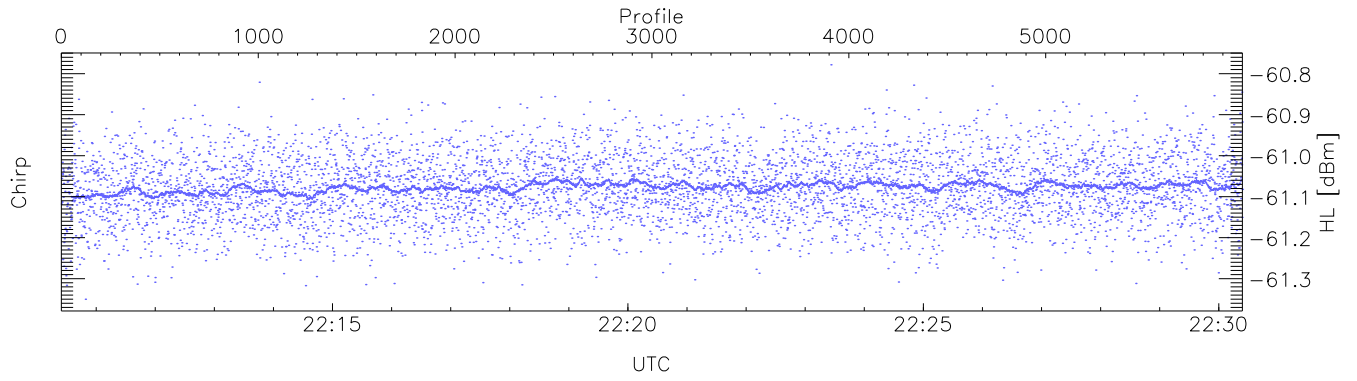
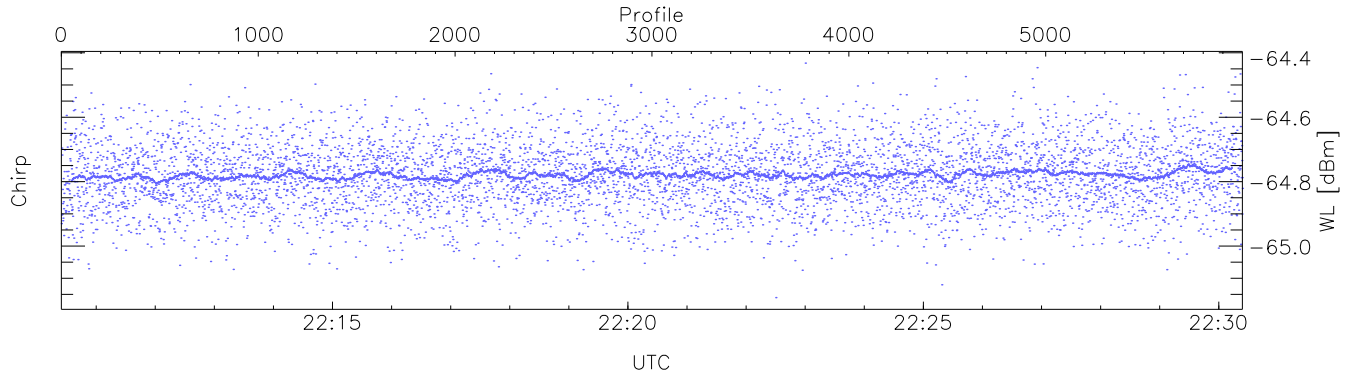
temperature: NS, LO, Tx, RM, LNA, Head, Ant  
 mintempC: 21.6, 19.6, 27.9, 14.8, 24.4, -4.7, 13.9  
 maxtempC: 22.0, 19.8, 29.5, 15.3, 25.3, -3.3, 15.7  
 meantempC: 21.8, 19.7, 28.3, 15.0, 24.7, -4.1, 14.9

PwrSply: 28, 12, 8, 5 VDC  
 minVDC: 25.68, 11.66, 7.87, 5.21  
 maxVDC: 27.79, 11.73, 7.90, 5.23  
 meanVDC: 26.91, 11.69, 7.88, 5.22

PLO(3.84,15.84 GHz) unlocked: None

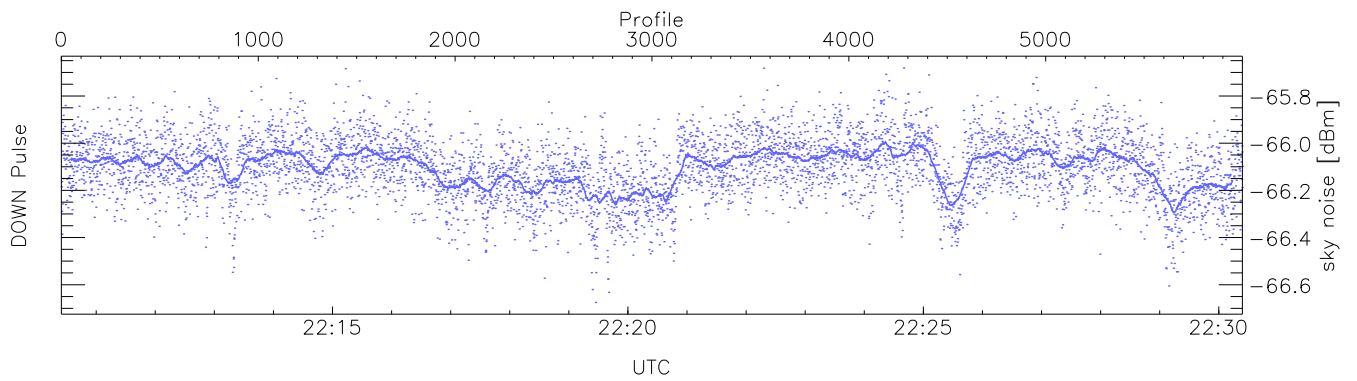
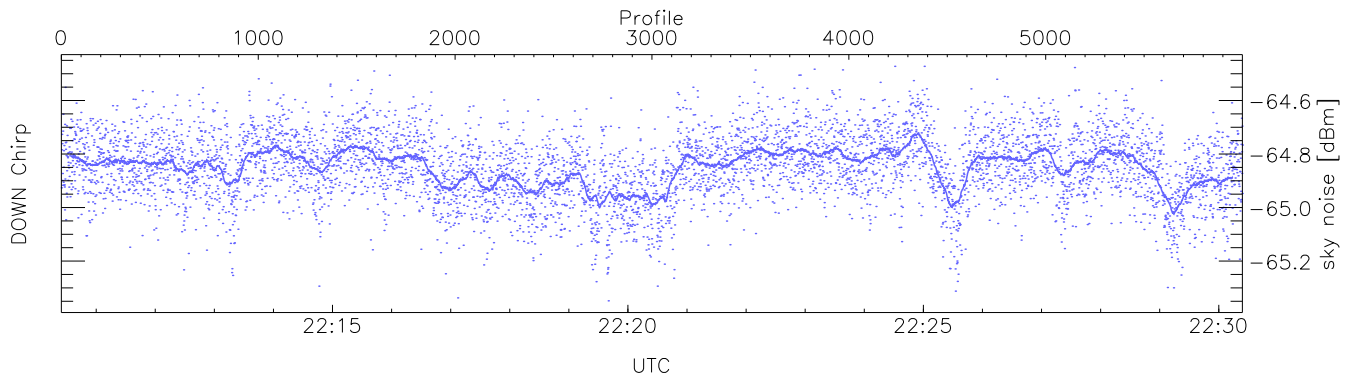
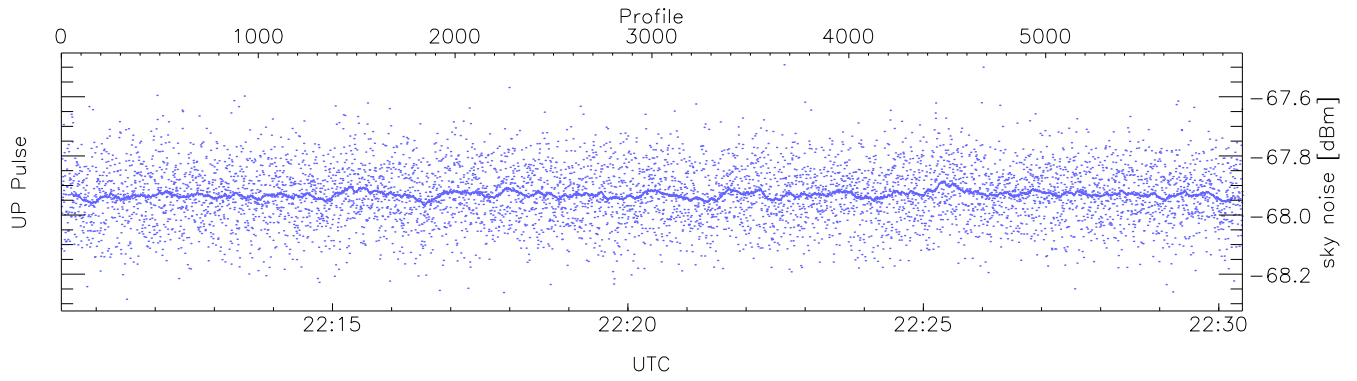
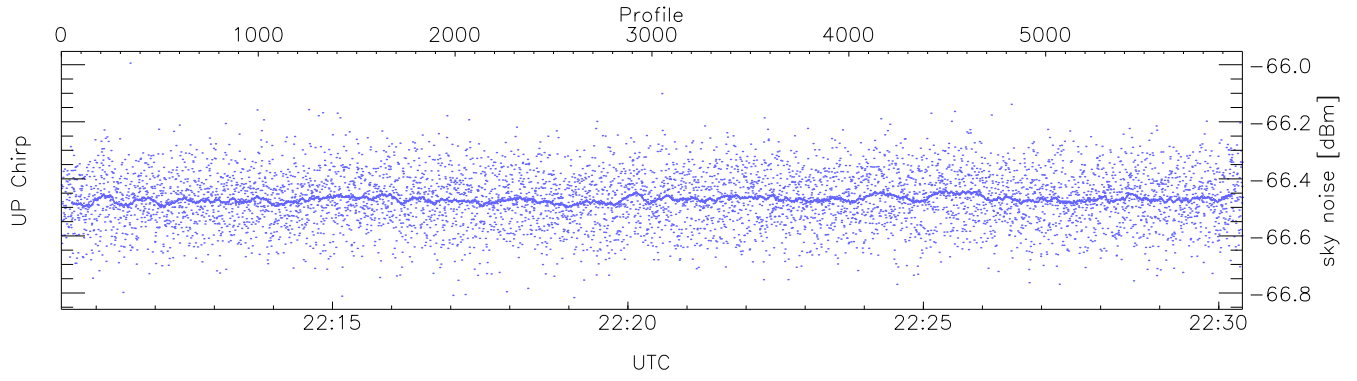


KPR SPP Receiver Gain and Noise Figure



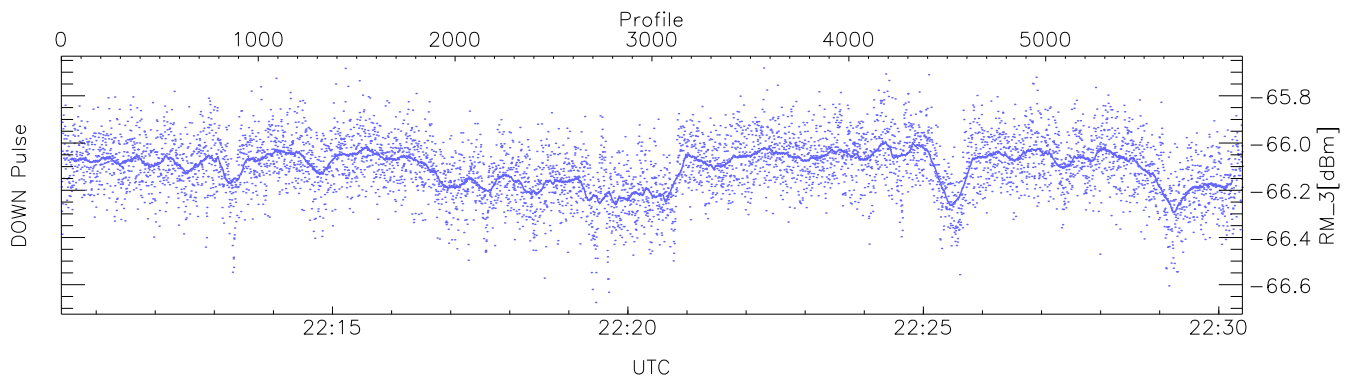
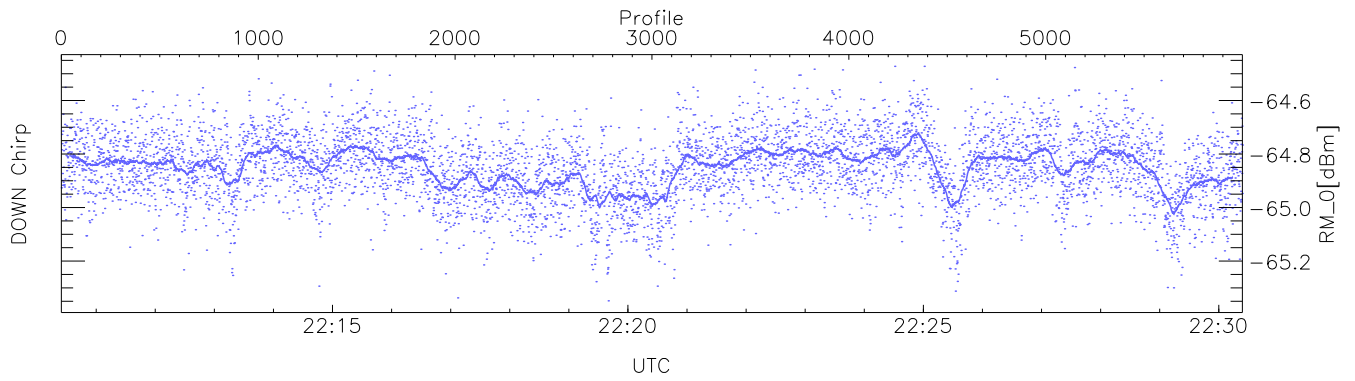
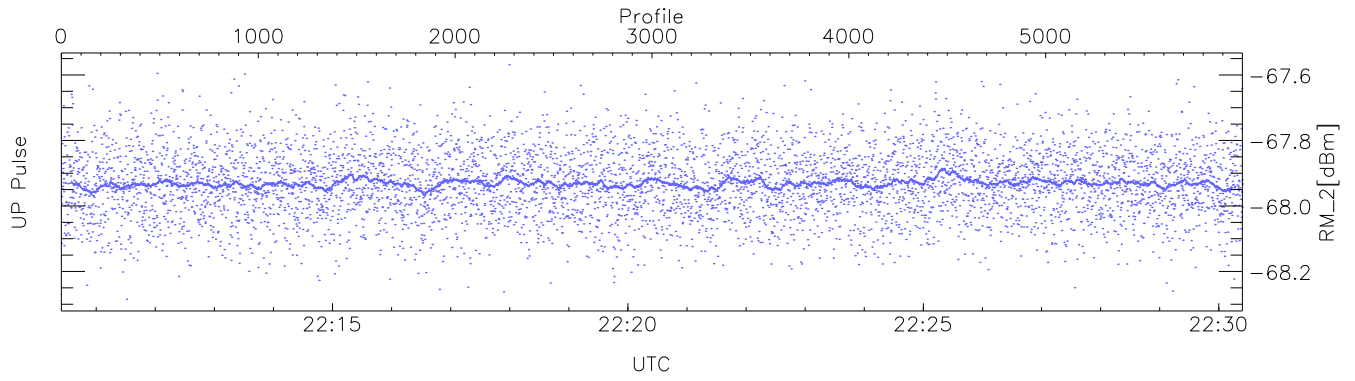
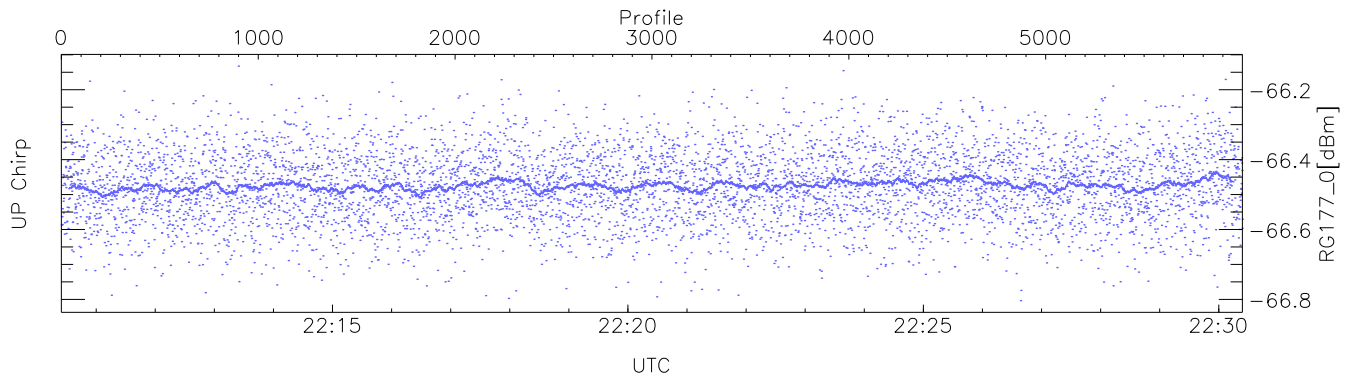
KPR SPP Receiver Noise Source Warm and Hot Measurements

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-65.16	-64.43	-64.78	-64.78	-81.14
Chirp(HL [dBm])	-61.35	-60.78	-61.08	-61.08	-78.57
Pulse(WL [dBm])	-66.26	-65.54	-65.88	-65.88	-82.18
Pulse(HL [dBm])	-63.09	-62.48	-62.80	-62.80	-80.31



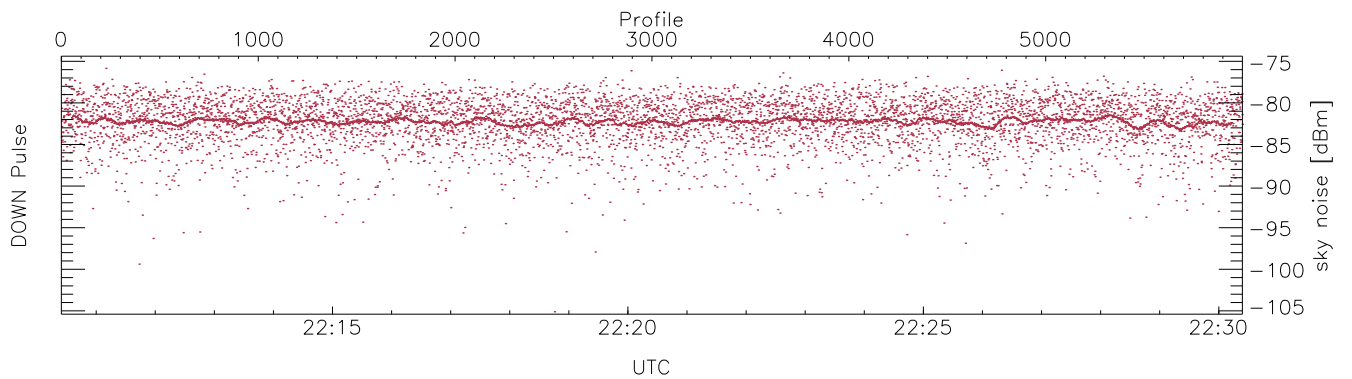
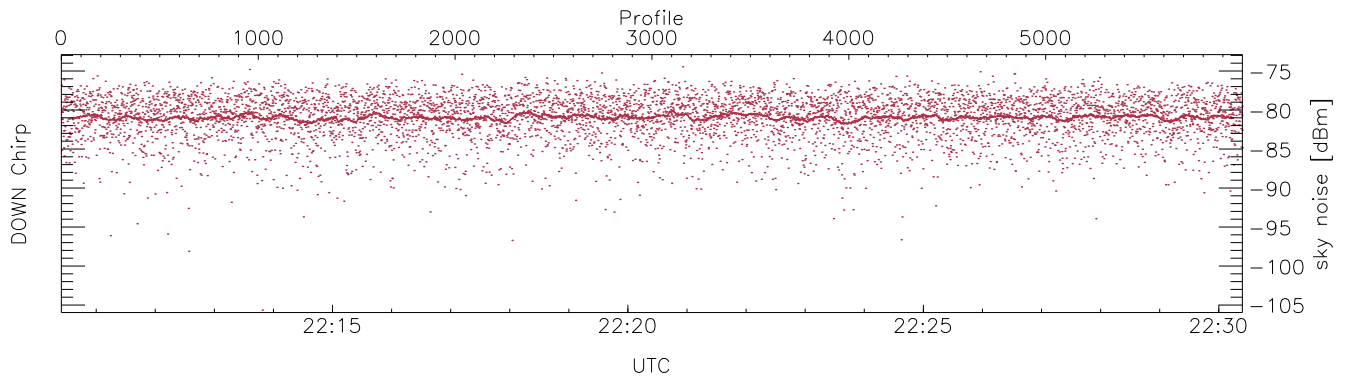
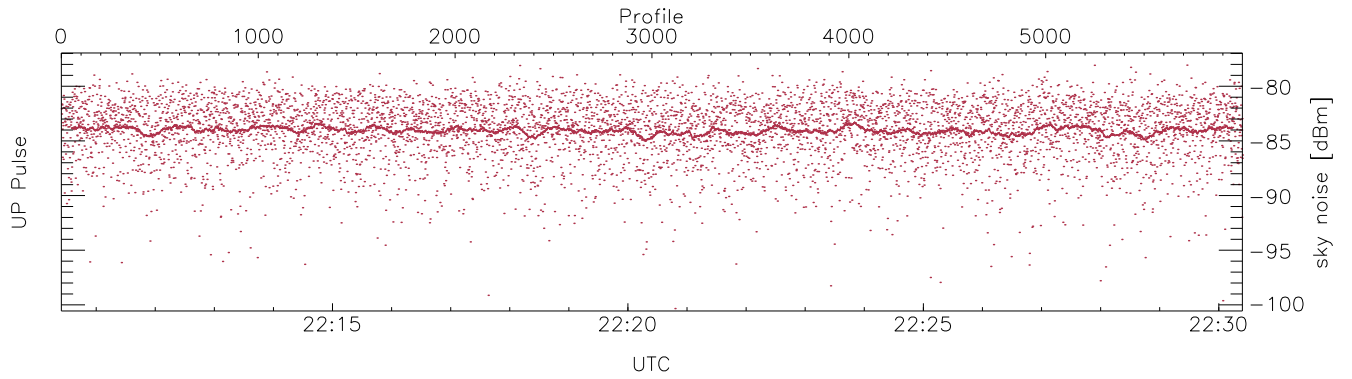
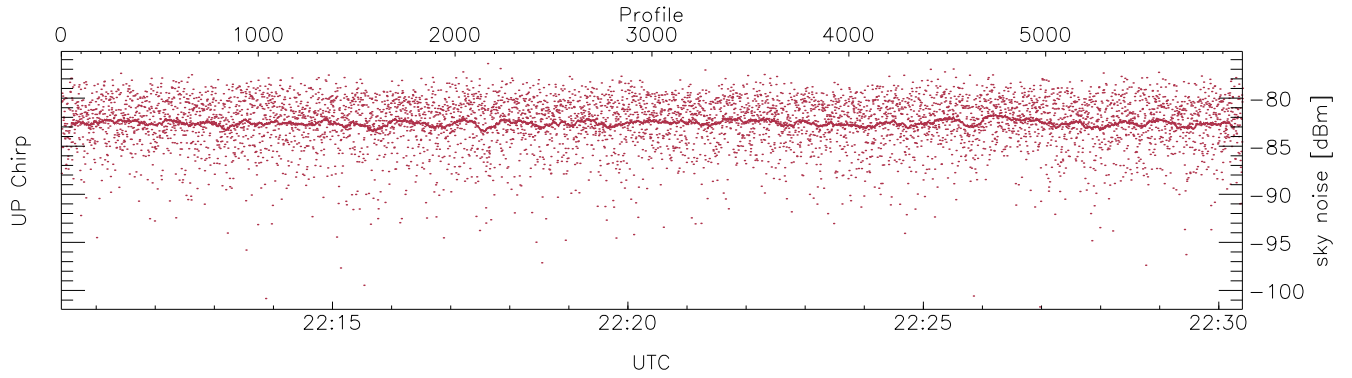
KPR SPP Last range gate power measurements: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-66.82	-65.99	-66.47	-66.47	-82.89
UP Pulse(dBm)	-68.28	-67.49	-67.93	-67.93	-84.23
DOWN Chirp(dBm)	-65.35	-64.47	-64.85	-64.84	-80.35
DOWN Pulse(dBm)	-66.68	-65.68	-66.10	-66.10	-81.38



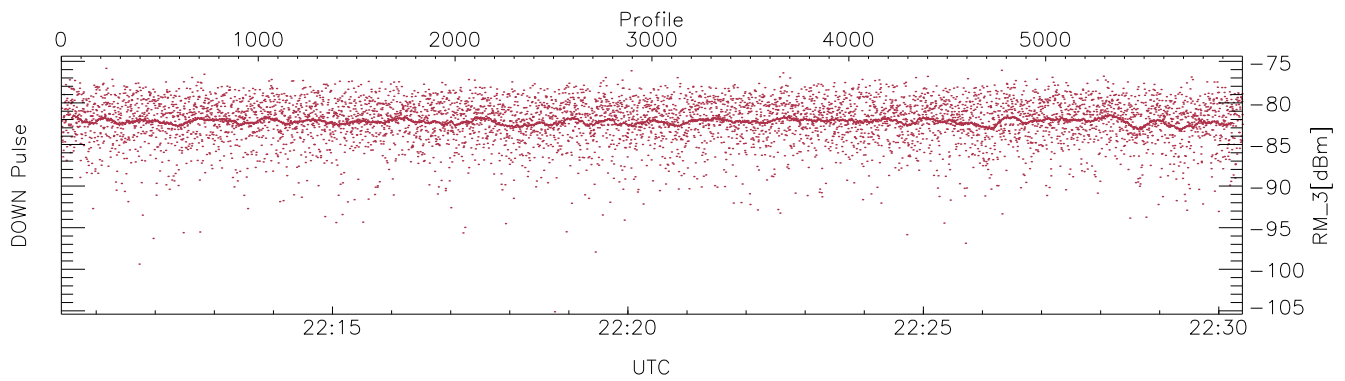
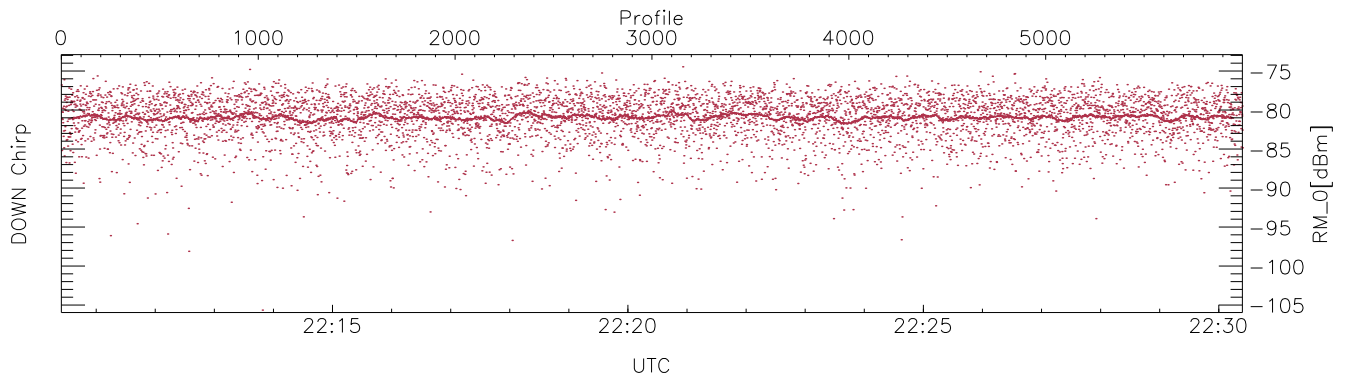
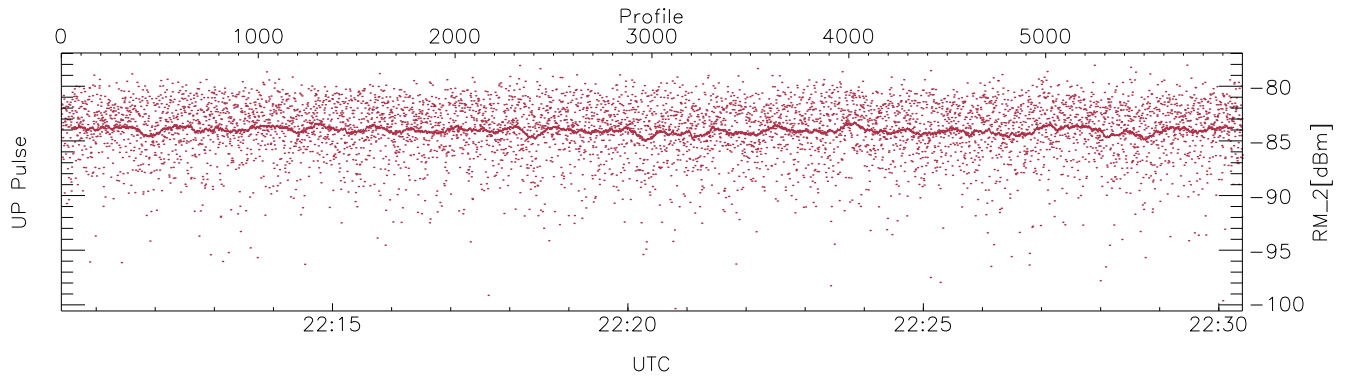
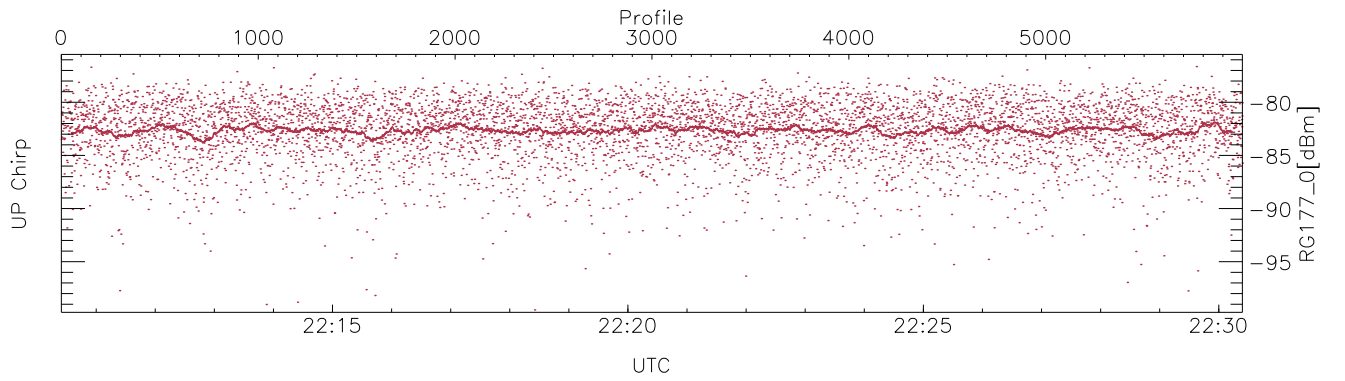
KPR SPP "Best" noise power measurements (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RG177_0	-66.80	-66.13	-66.47	-66.47	-82.83
UP_P_RM_2	-68.28	-67.57	-67.93	-67.93	-84.24
DOWN_C_RM_0	-65.35	-64.47	-64.85	-64.84	-80.35
DOWN_P_RM_3	-66.68	-65.68	-66.10	-66.10	-81.39



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

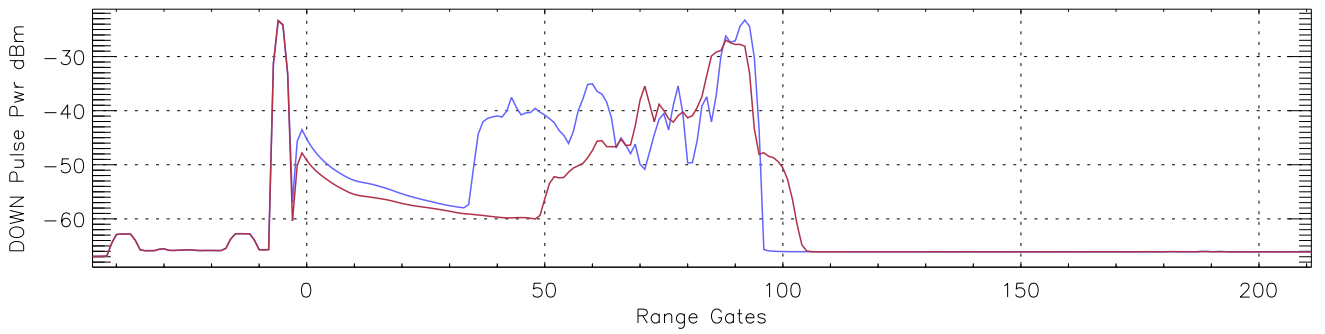
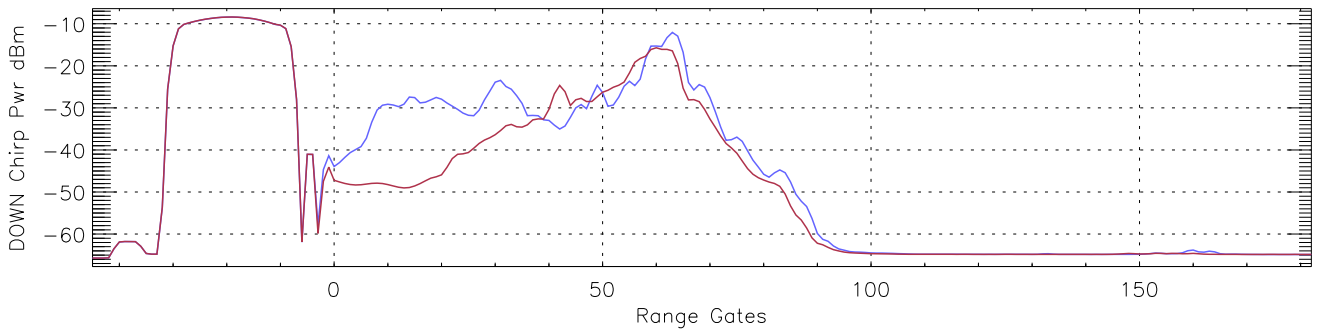
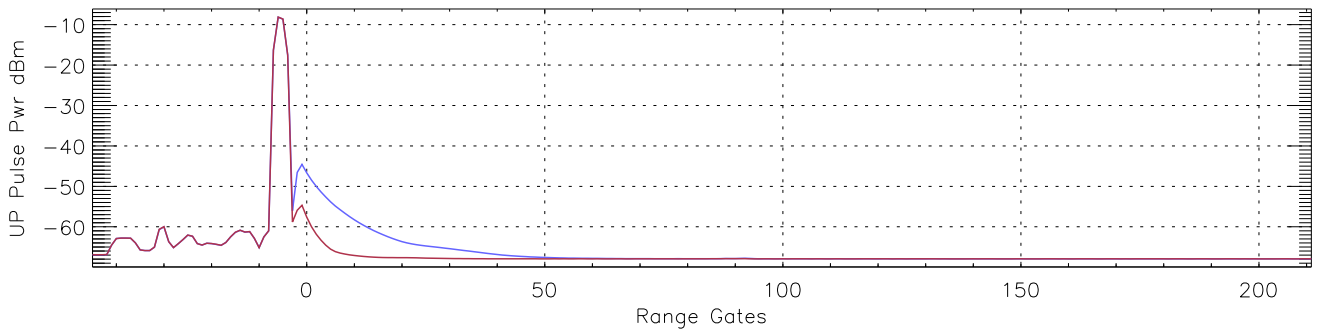
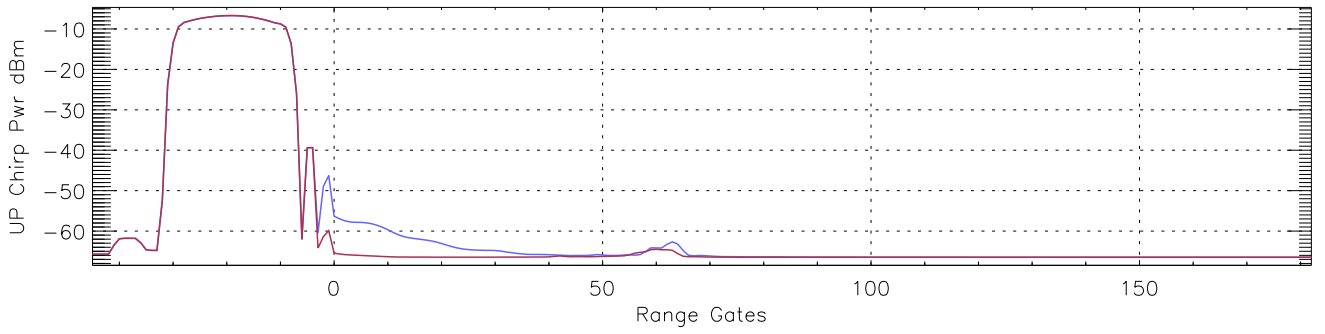
	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-101.71	-76.41	-81.89	-82.12	-84.75
UP Pulse(dBm)	-100.33	-78.07	-83.34	-83.58	-86.19
DOWN Chirp(dBm)	-105.66	-74.46	-80.24	-80.48	-83.04
DOWN Pulse(dBm)	-105.11	-75.85	-81.51	-81.78	-84.24



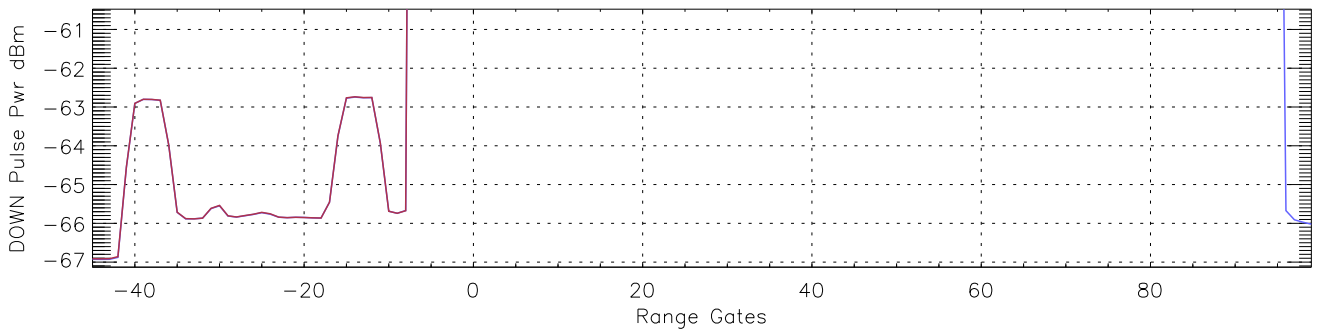
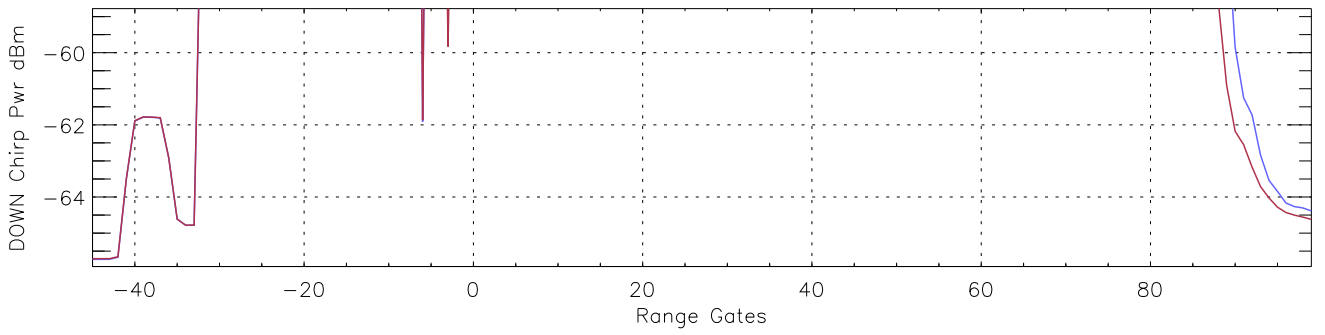
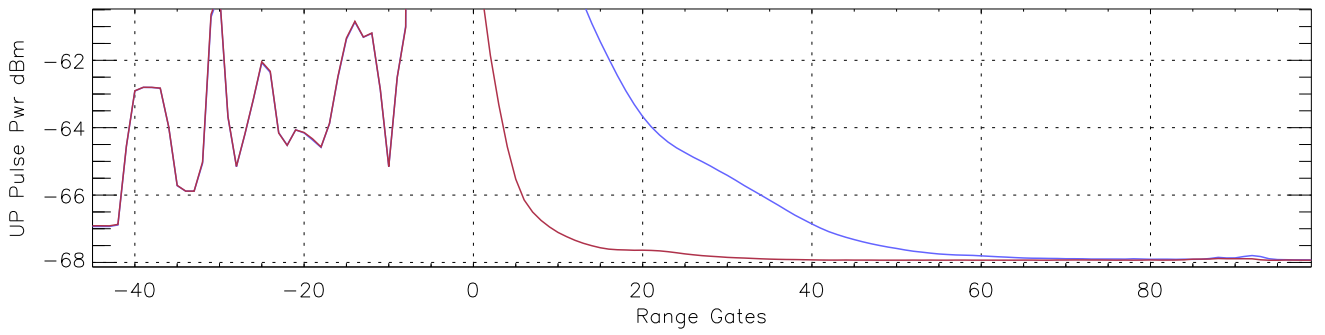
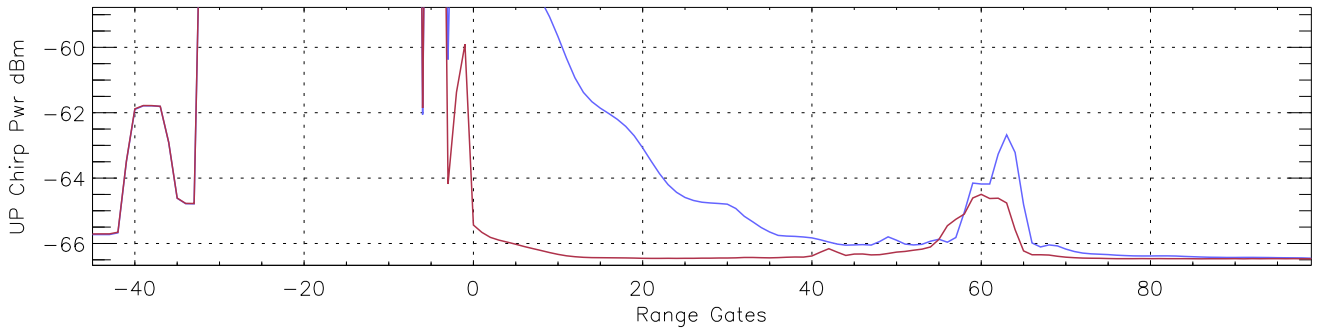
KPR SPP "Best" PPMAG noise (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RG177_0	-99.54	-76.64	-81.94	-82.19	-84.77
UP_P_RM_2	-100.33	-78.07	-83.34	-83.58	-86.19
DOWN_C_RM_0	-105.66	-74.46	-80.24	-80.48	-83.04
DOWN_P_RM_3	-105.11	-75.85	-81.51	-81.78	-84.24

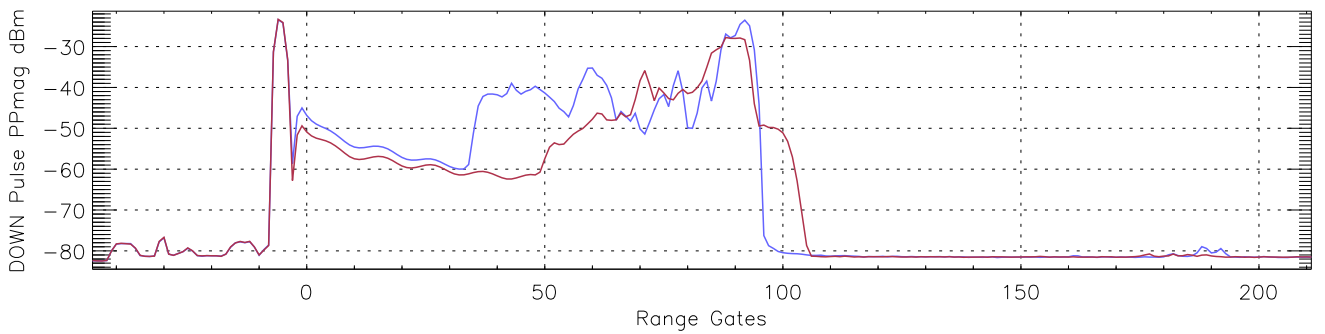
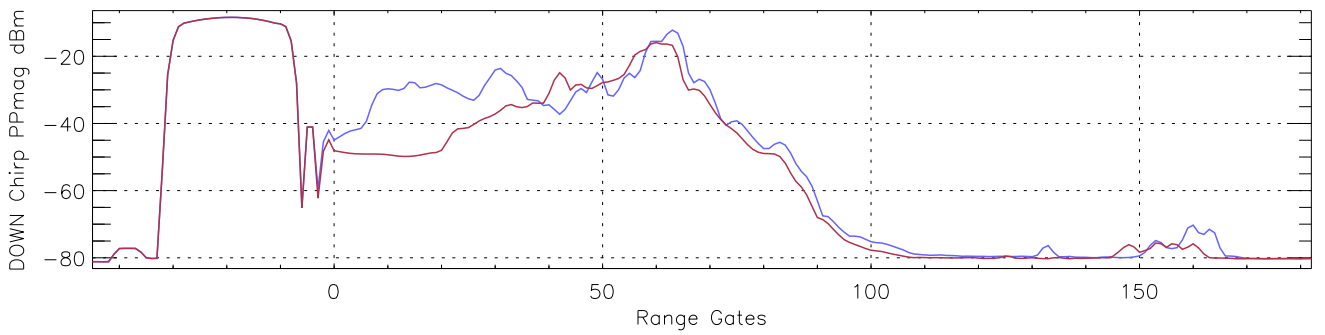
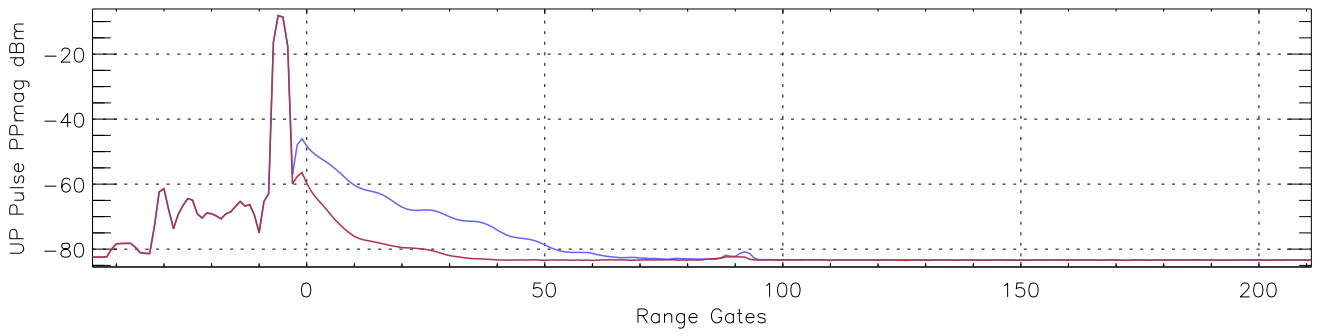
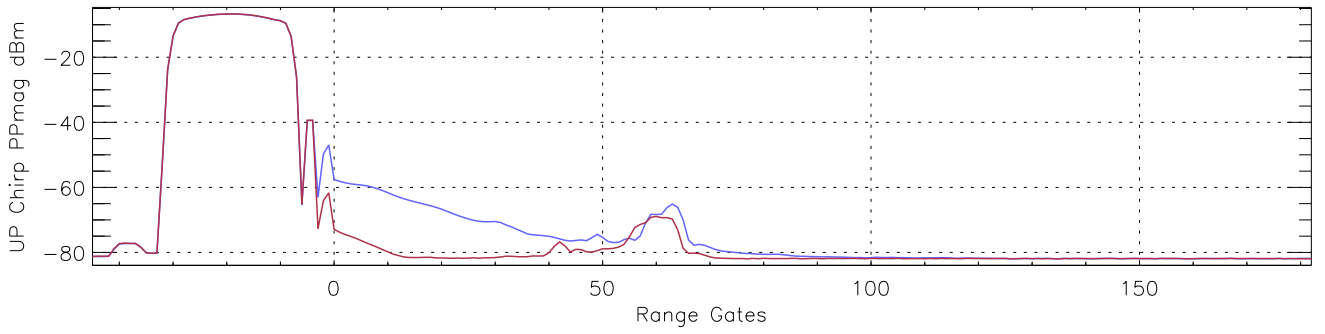




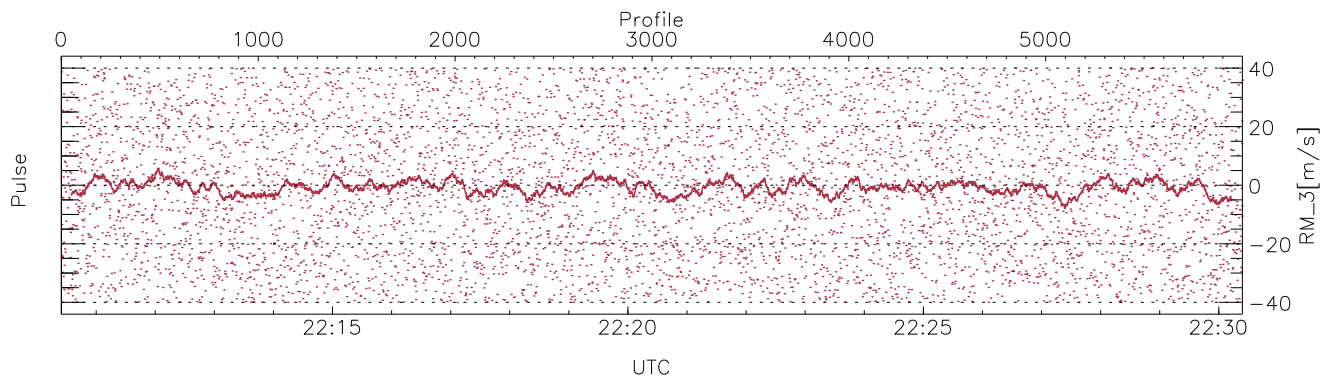
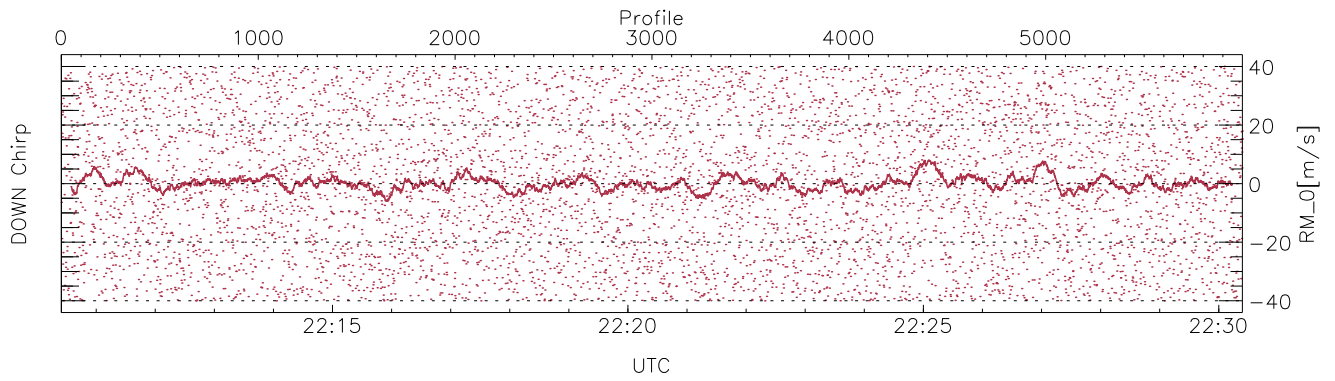
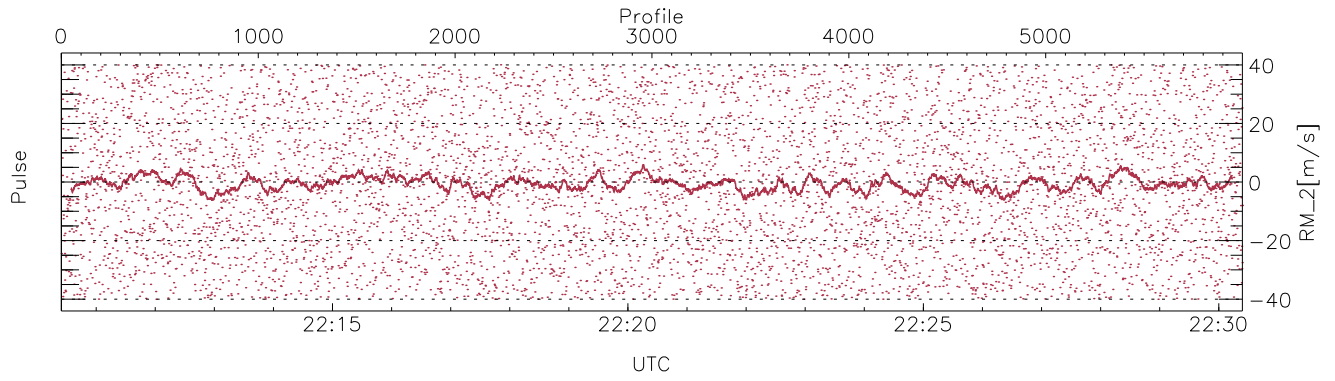
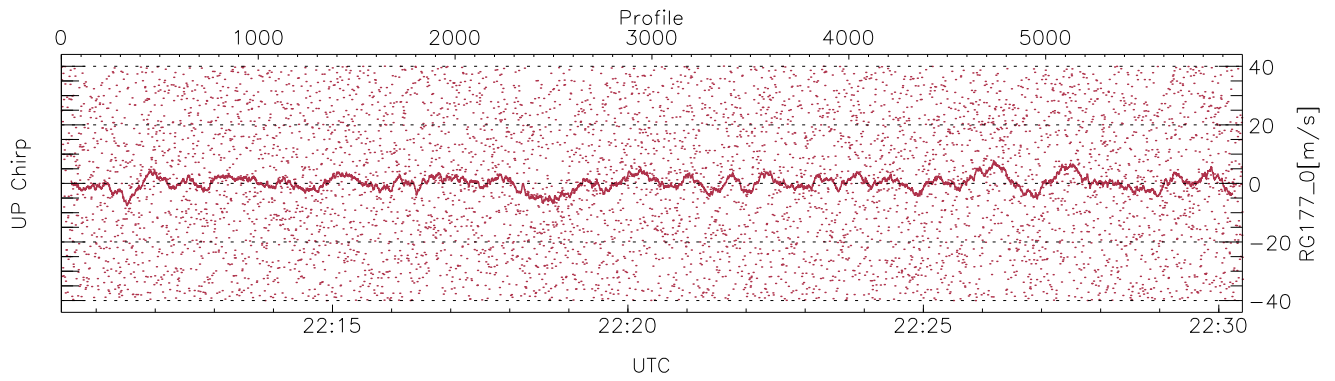
KPR SPP Averaged Received power for all recorded gates  
blue: 221025-222024, 3001 profiles averaged  
red: 222024-223024, 3000 profiles averaged



KPR SPP Averaged Power for neg. gates & up to 100 gates  
blue: 221025-222024, 3001 profiles averaged  
red: 222024-223024, 3000 profiles averaged

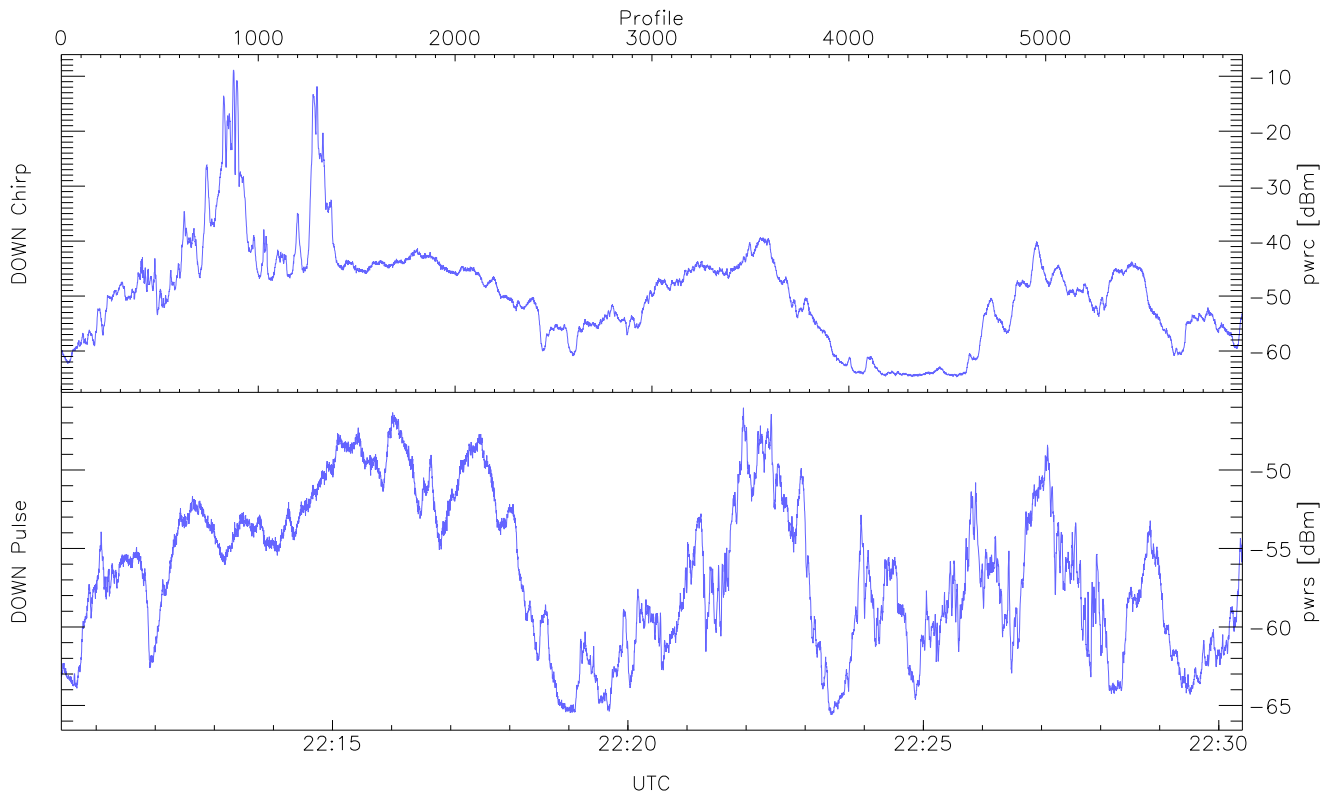
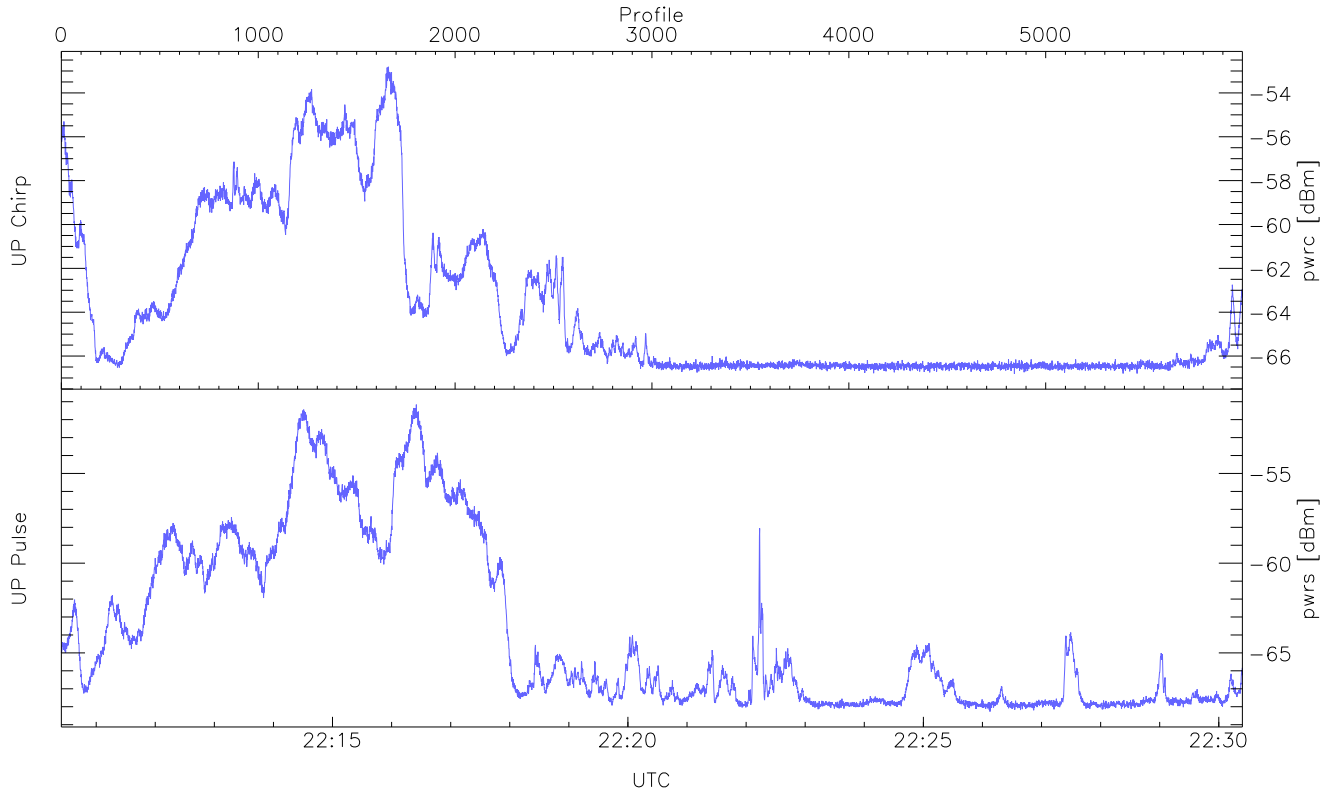


KPR SPP Averaged PP magnitude for all recorded gates  
blue: 221025-222024, 3001 profiles averaged  
red: 222024-223024, 3000 profiles averaged



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

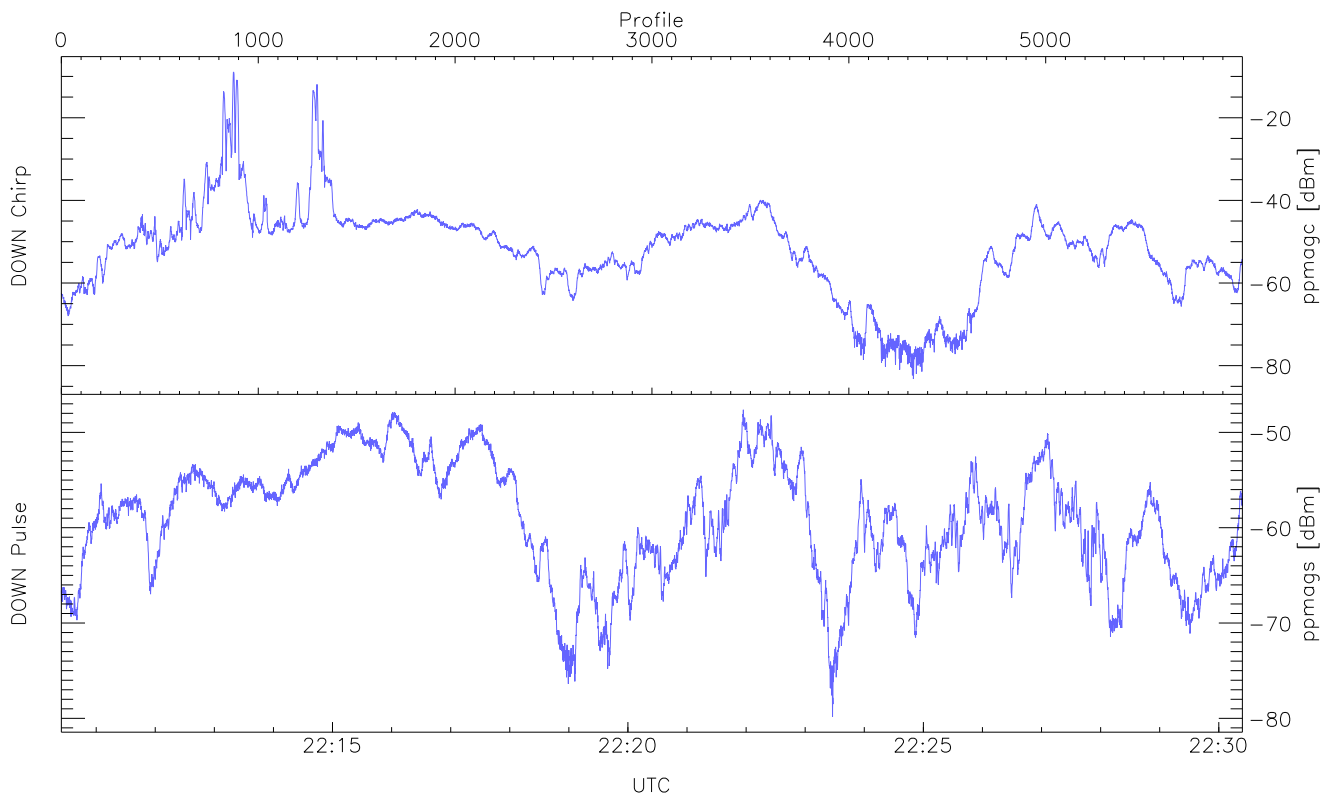
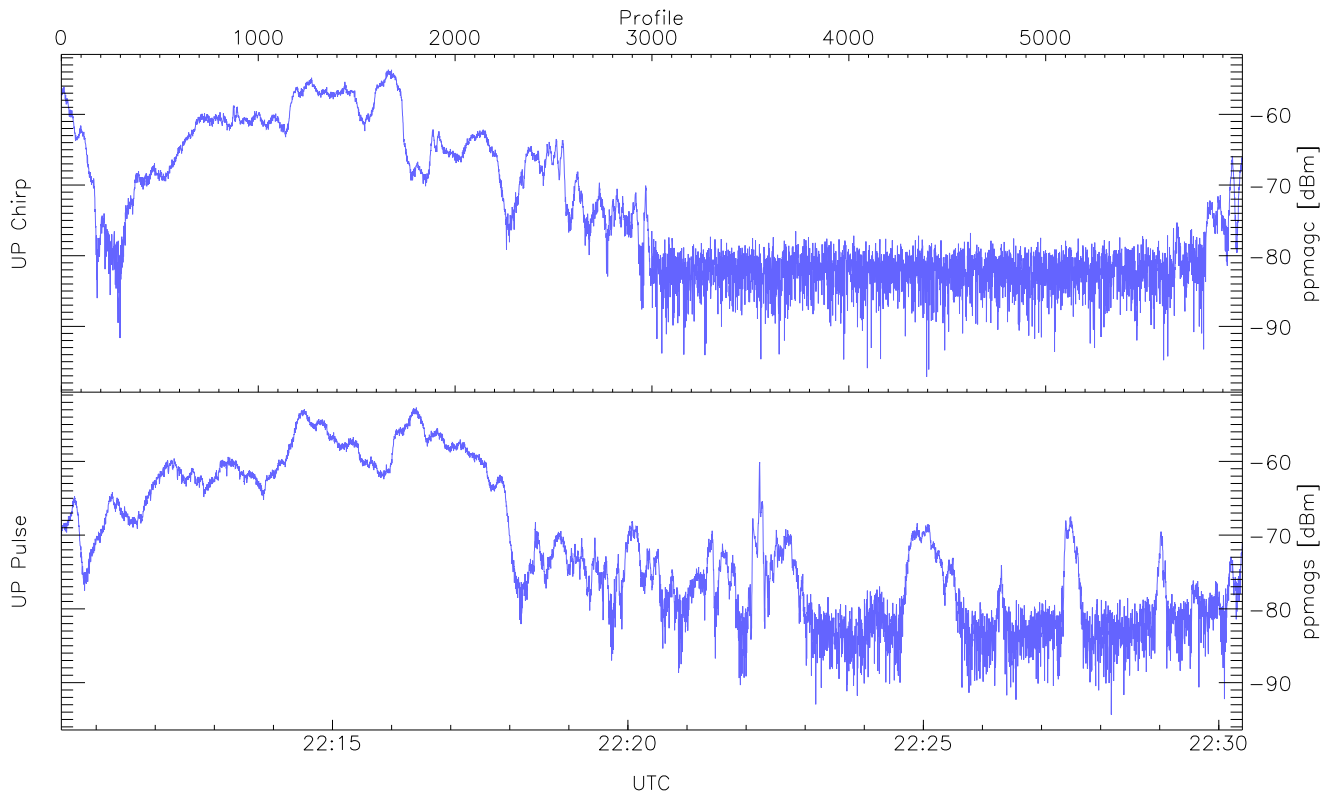
	Min	Max	Mean	Median	StDev
UP_C_RG177_0	-40.04	40.06	0.07	0.37	22.90
UP_P_RM_2	-40.03	40.06	-0.65	-1.10	22.76
DOWN_C_RM_0	-40.03	40.05	0.10	0.41	23.27
DOWN_P_RM_3	-40.04	40.06	-0.81	-1.17	22.64



KPR SPP Received Power for Chirp Range gate 10 (1315.8 m)

KPR SPP Received Power for Pulse Range gate 10 (466.6 m)

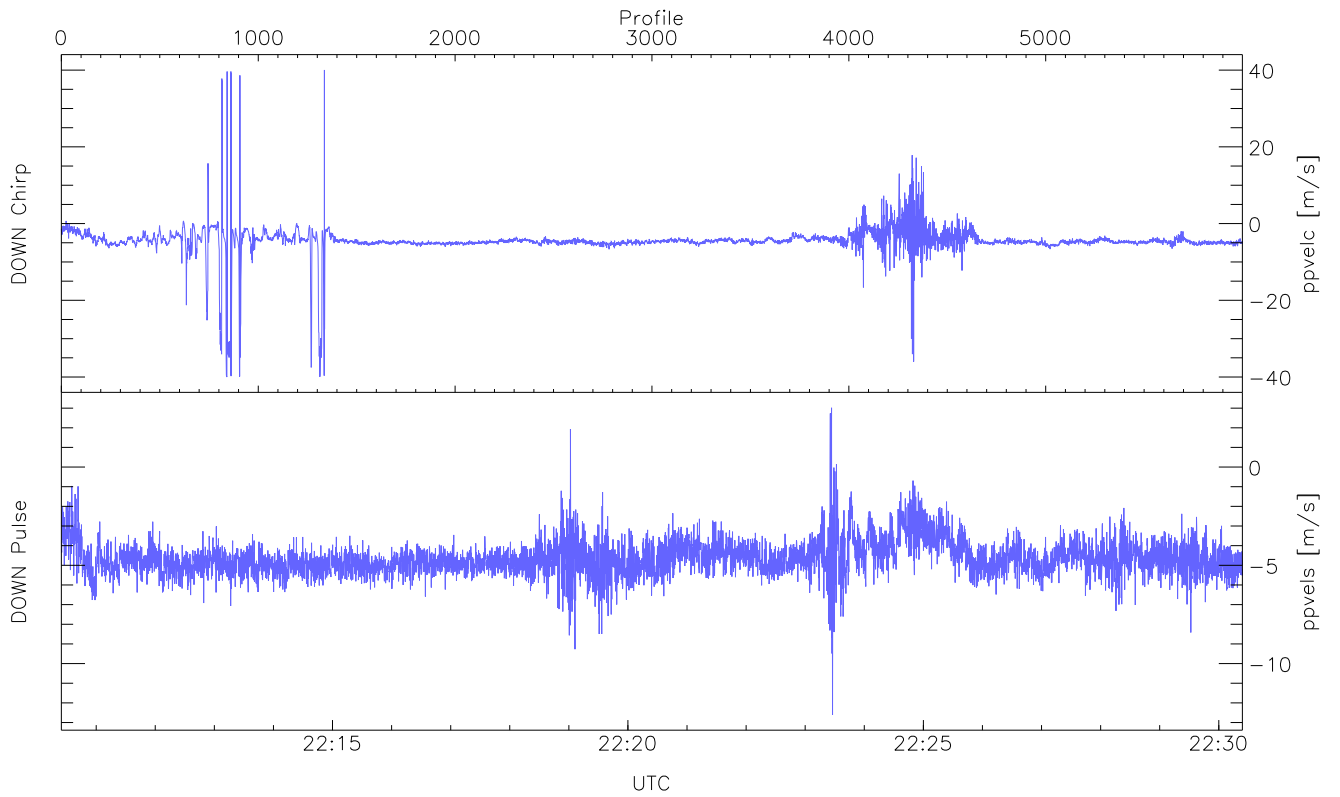
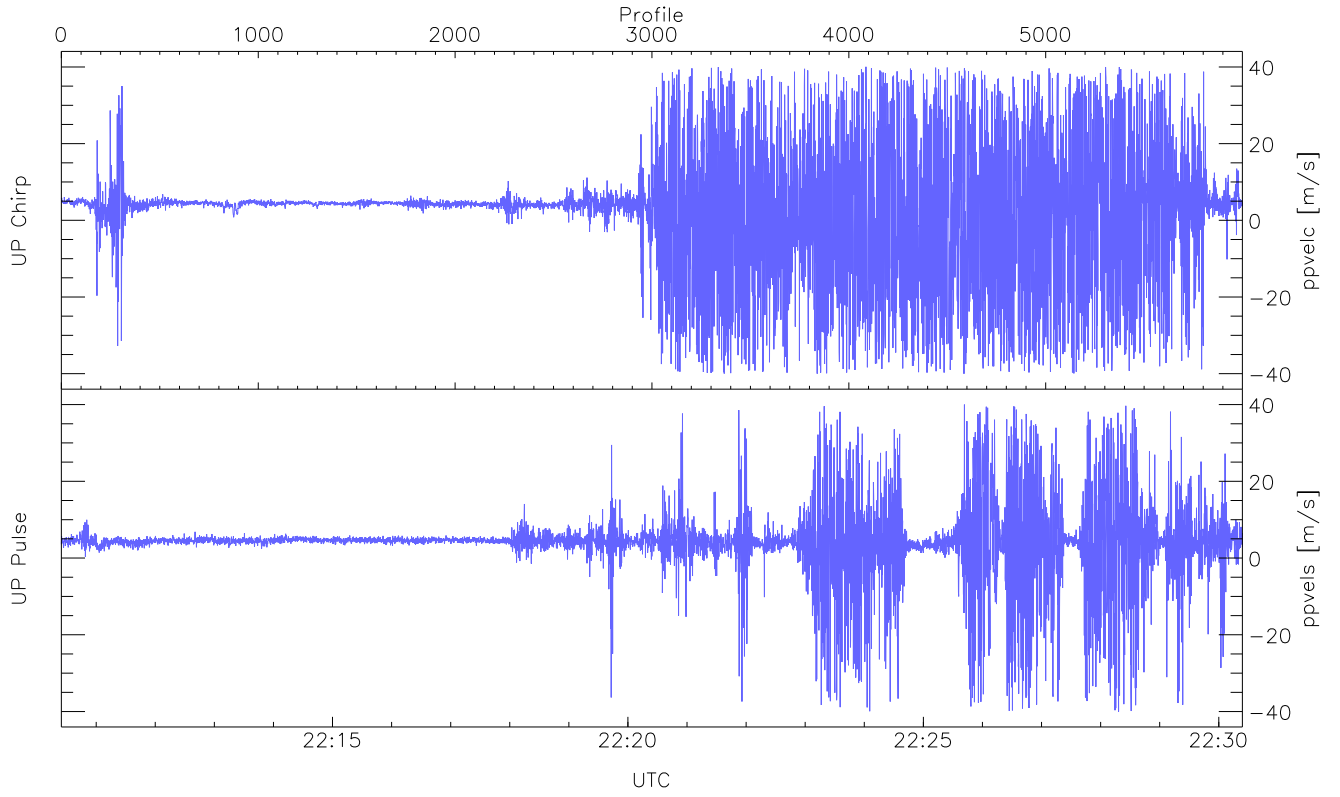
	Min	Max	Mean
UP Chirp(dBm)	-66.81	-52.81	-61.83
UP Pulse(dBm)	-68.27	-51.16	-60.75
DOWN Chirp(dBm)	-64.74	-8.86	-32.08
DOWN Pulse(dBm)	-65.60	-46.03	-54.00



KPR SPP PPMAG for Chirp Range gate 10 (1315.8 m)

KPR SPP PPMAG for Pulse Range gate 10 (466.6 m)

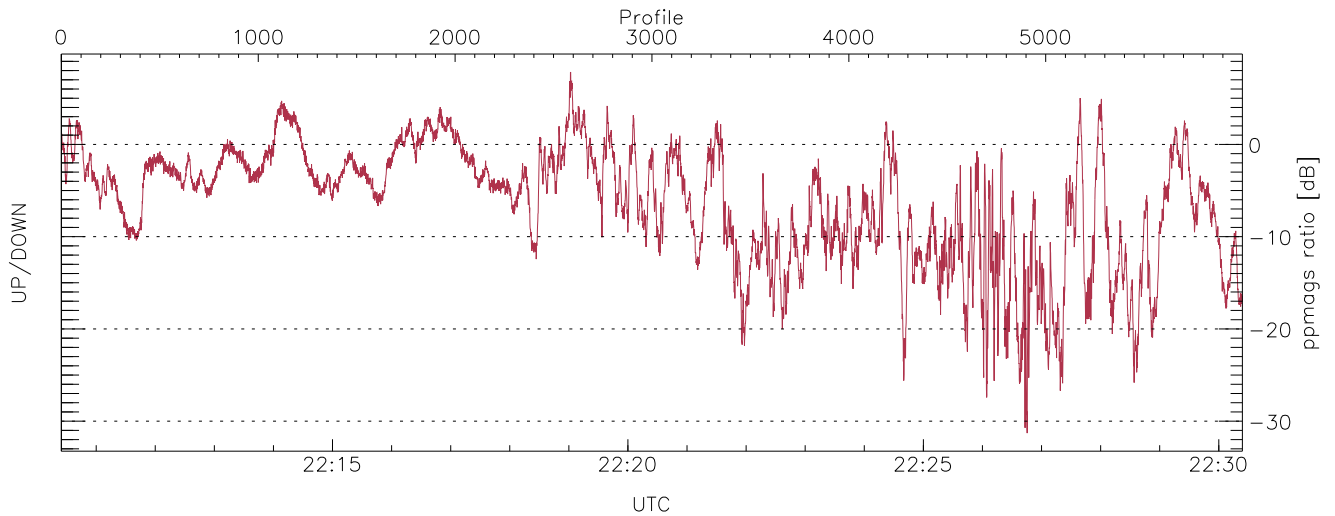
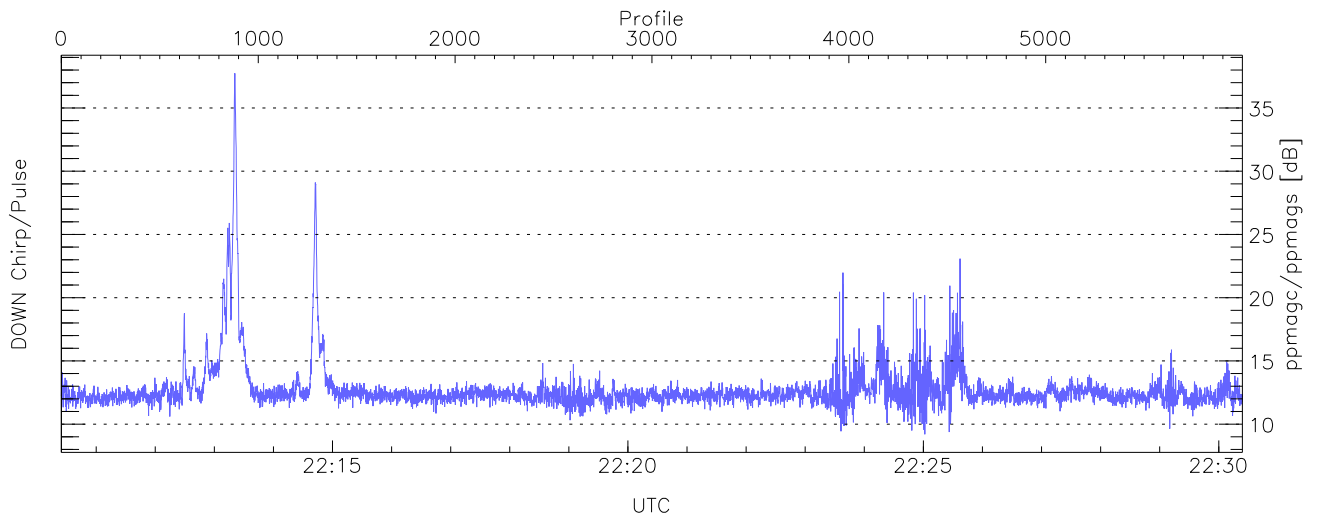
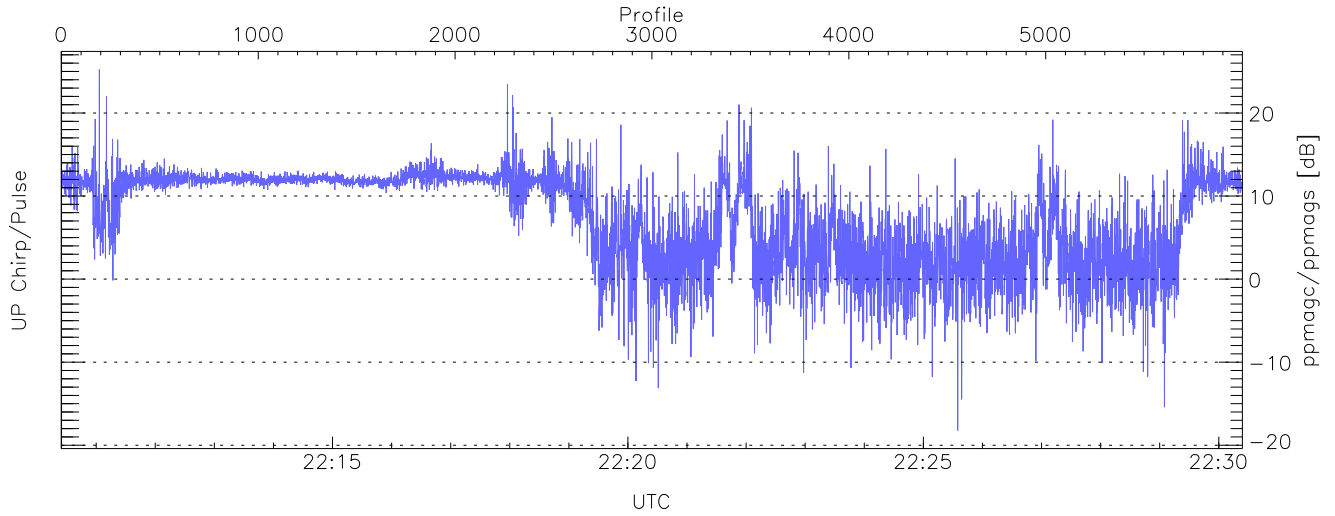
	Min	Max	Mean
UP Chirp(dBm)	-97.14	-53.69	-64.58
UP Pulse(dBm)	-94.34	-52.70	-63.22
DOWN Chirp(dBm)	-83.24	-8.92	-32.64
DOWN Pulse(dBm)	-79.84	-47.62	-55.80



KPR SPP PPVEL for Chirp Range gate 10 (1315.8 m)

KPR SPP PPVEL for Pulse Range gate 10 (466.6 m)

	Min	Max	Mean
UP Chirp(m/s)	-40.04	40.05	2.54
UP Pulse(m/s)	-40.02	40.01	3.89
DOWN Chirp(m/s)	-40.00	40.05	-4.54
DOWN Pulse(m/s)	-12.61	3.02	-4.65



KPR SPP PPMAG Chirp/Pulse; Range gate: 1046.0m /1066.2m

	Min	Max	Mean
UP Chirp/Pulse(dBm)	-18.23	25.24	9.89
DOWN Chirp/Pulse(dBm)	9.20	37.74	14.59
UP/DOWN Ratio at Range 196.8 m			
	Min	Max	Mean
UP/DOWN(dB)	-31.29	7.84	-3.10