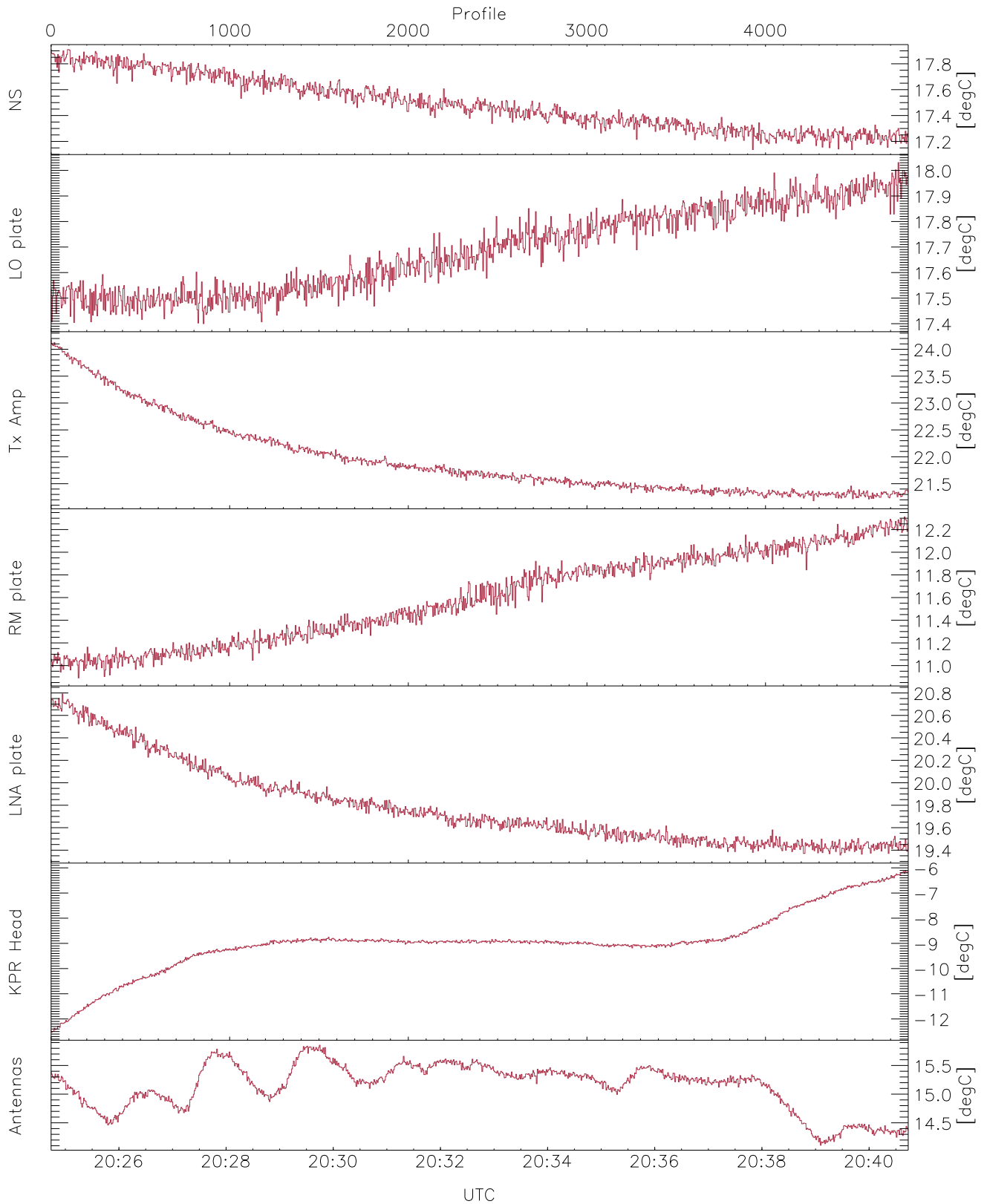


KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF  
 UTC: 20:24:44-21:10:13, TimeCor: 0.00s, Dur: 959.80s  
 TimeInt(min,max,mn,std): 196.3,203.7,200.0,0.2 ms; PPS: 5.0  
 NumRec(r/t): 4800/13644, 0-4799/20:24:44-20:40:44  
 AcqTime(req,actual): 200.0,200.0 ms, Data Rate: 187.6 KB/s  
 Pulse: 247 ns, Chirp: 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

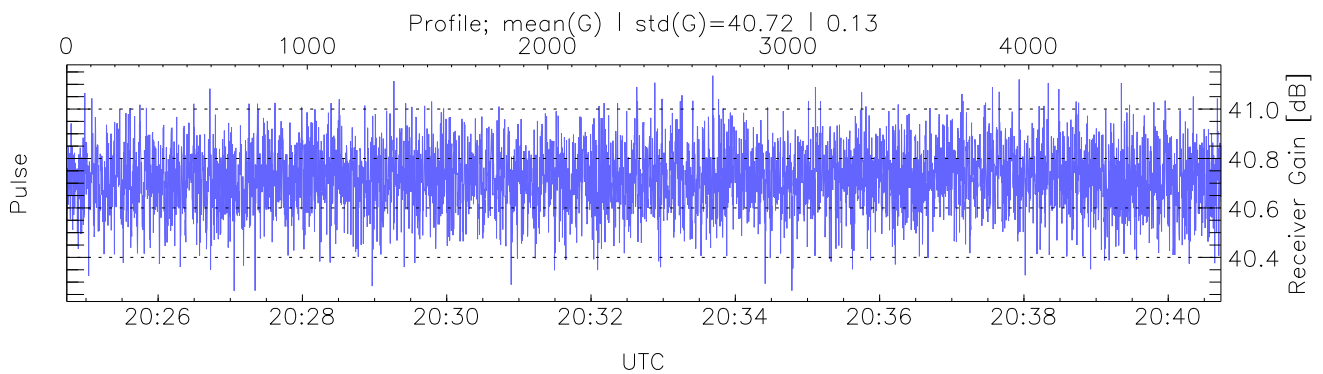
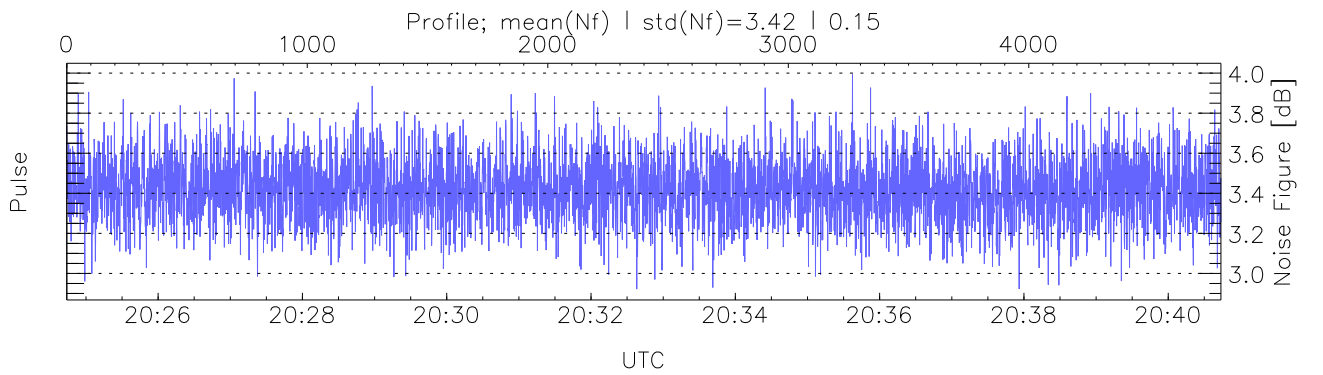
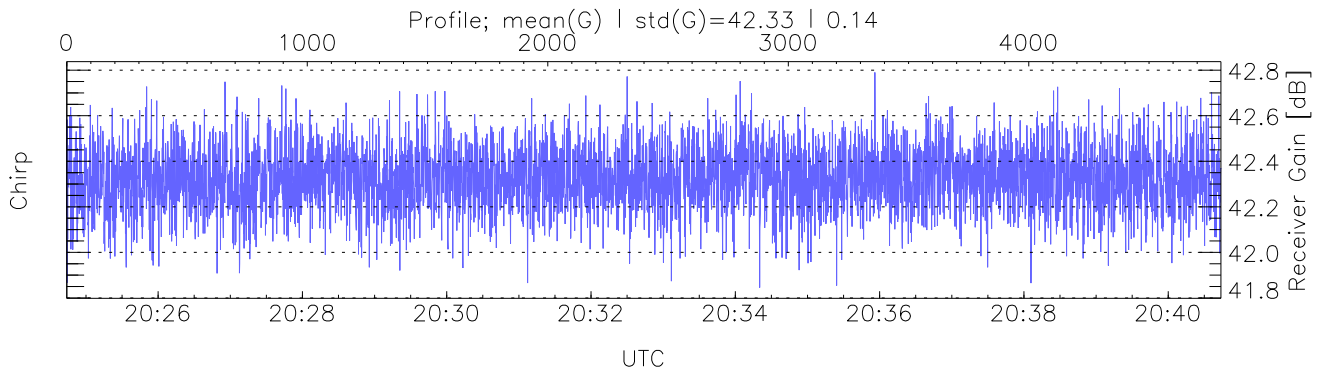
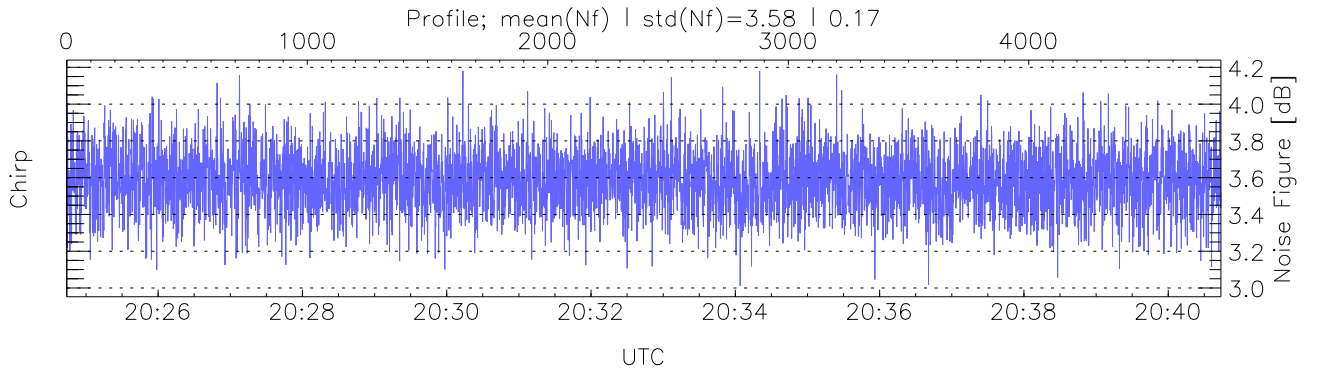


KPR SPP Temperatures, Power Supplies, PLO lock:

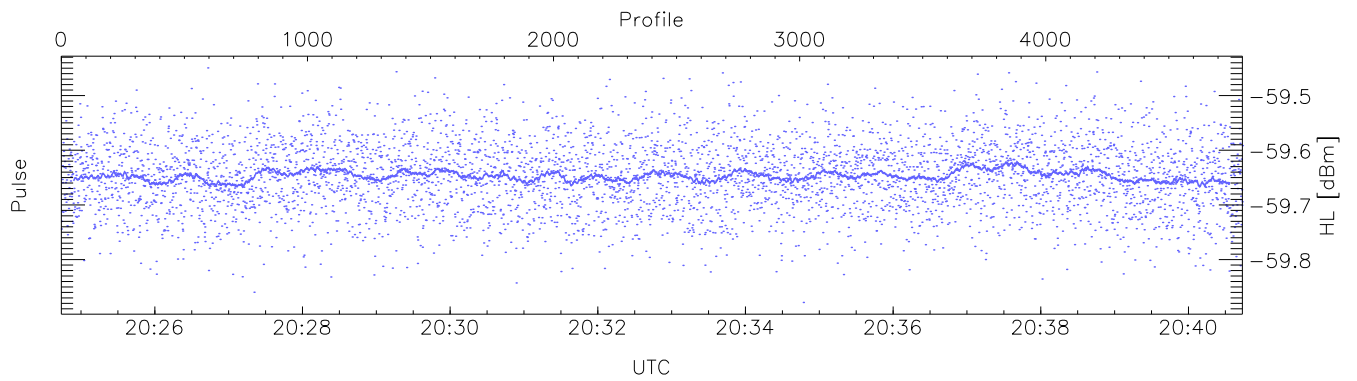
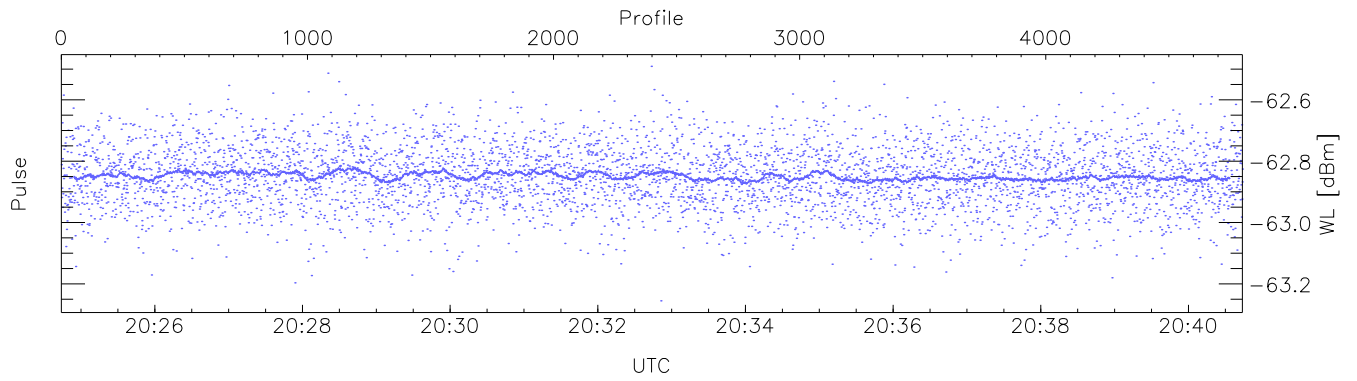
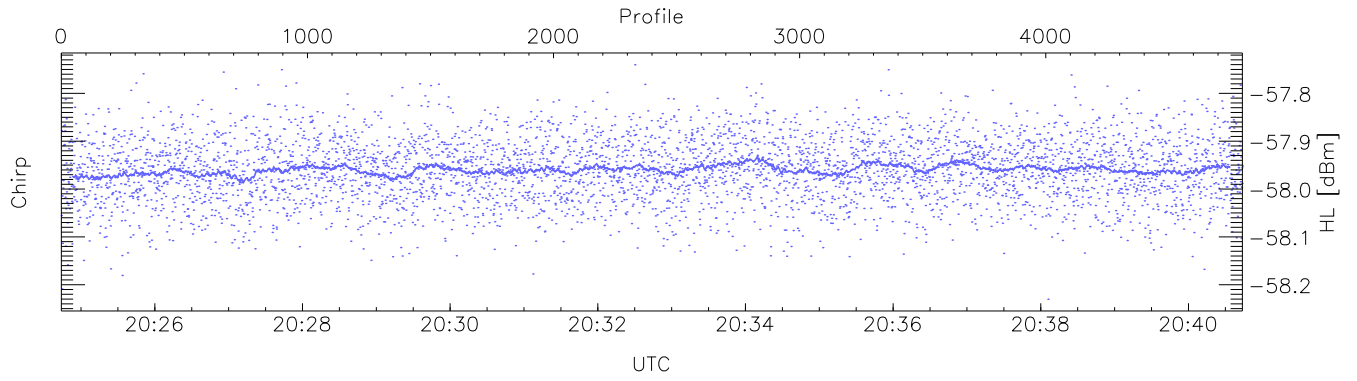
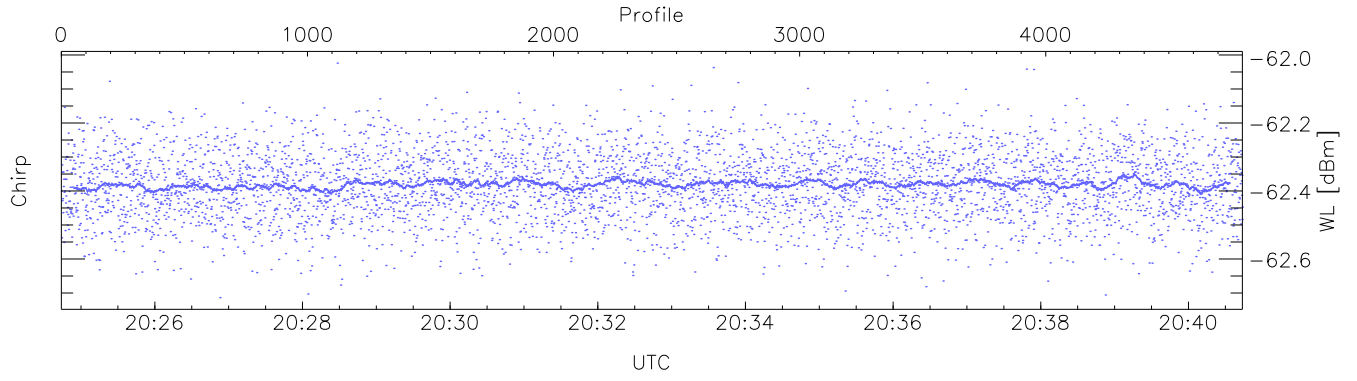
temperature: NS, LO, Tx, RM, LNA, Head, Ant  
 mintempC: 17.1, 17.4, 21.2, 10.9, 19.4, -12.5, 14.1  
 maxtempC: 17.9, 18.0, 24.2, 12.3, 20.8, -6.1, 15.9  
 meantempC: 17.5, 17.7, 21.9, 11.6, 19.8, -9.0, 15.1

PwrSply: 28, 12, 8, 5 VDC  
 minVDC: 25.28, 11.68, 7.87, 5.21  
 maxVDC: 27.79, 11.74, 7.90, 5.23  
 meanVDC: 26.87, 11.71, 7.88, 5.22

PLO(3.84,15.84 GHz) unlocked: None

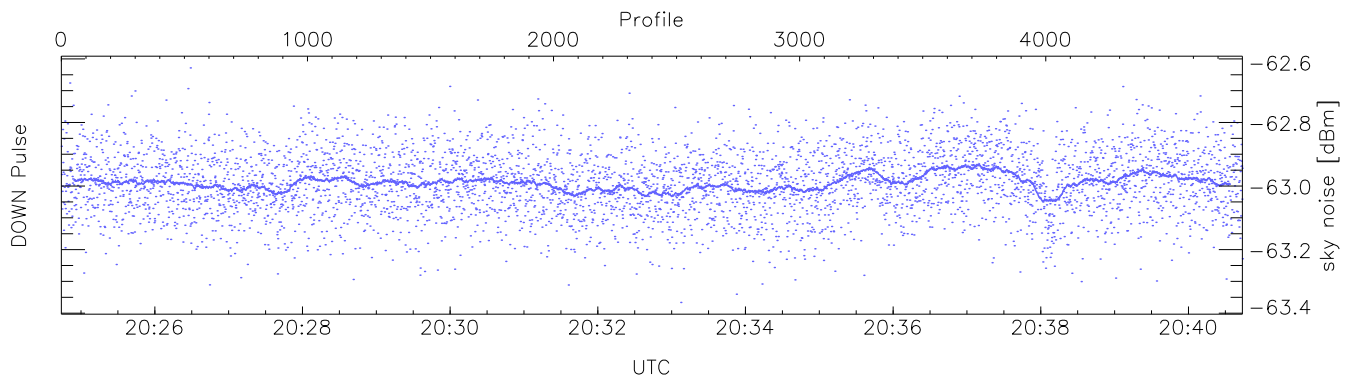
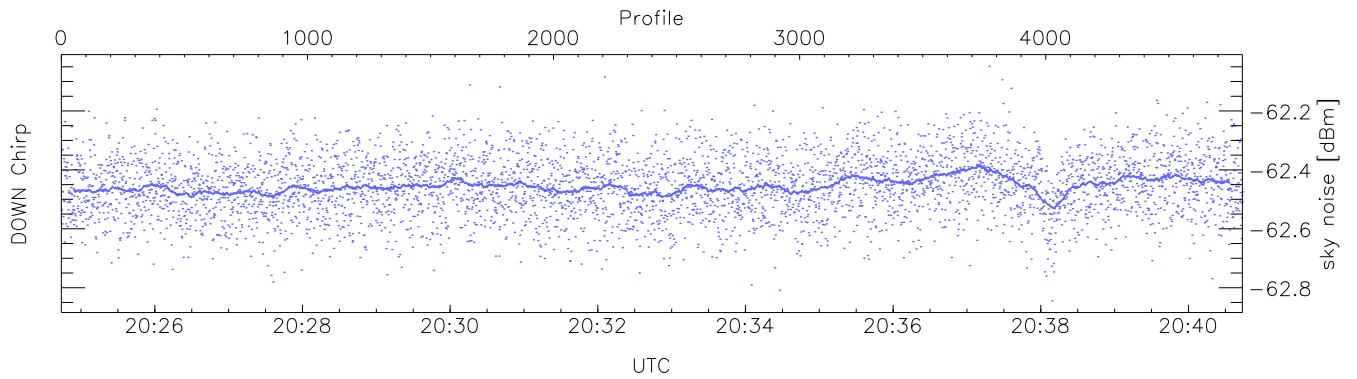
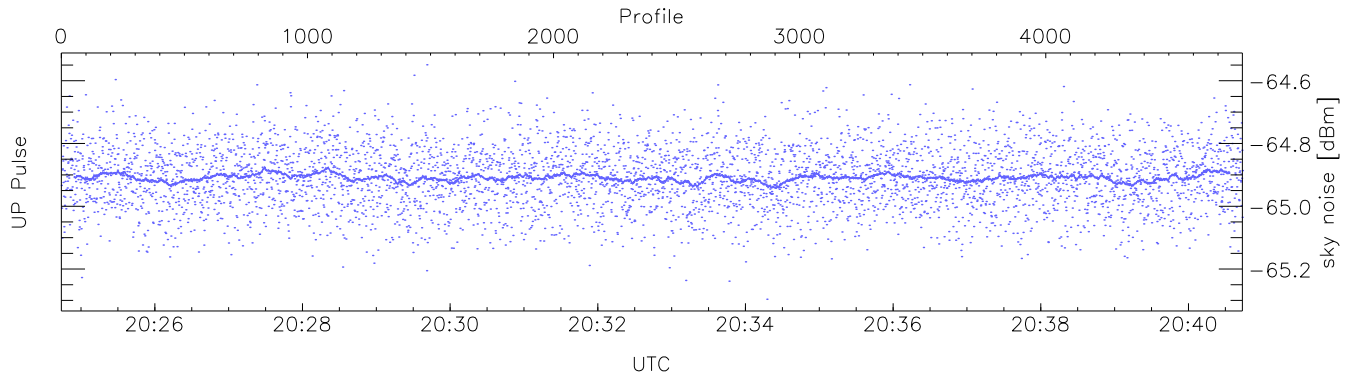
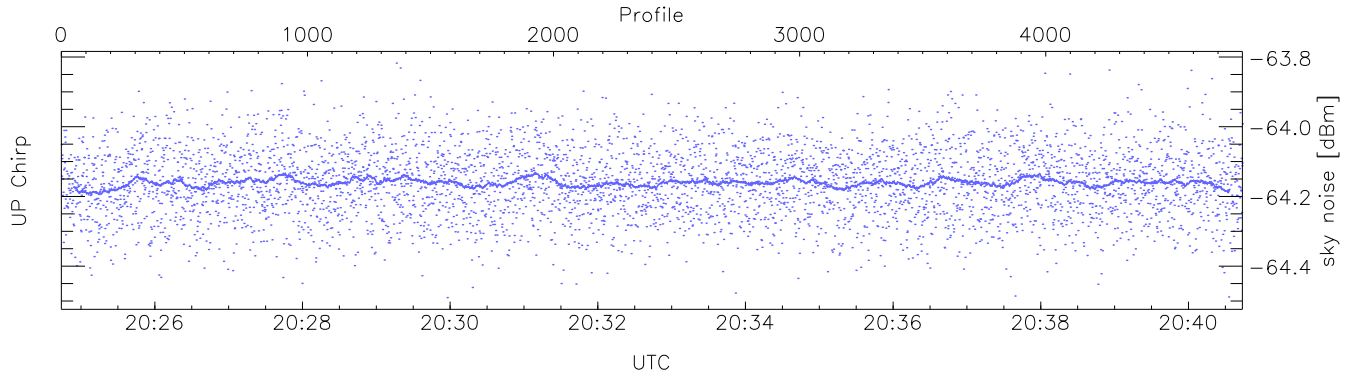


KPR SPP Receiver Gain and Noise Figure



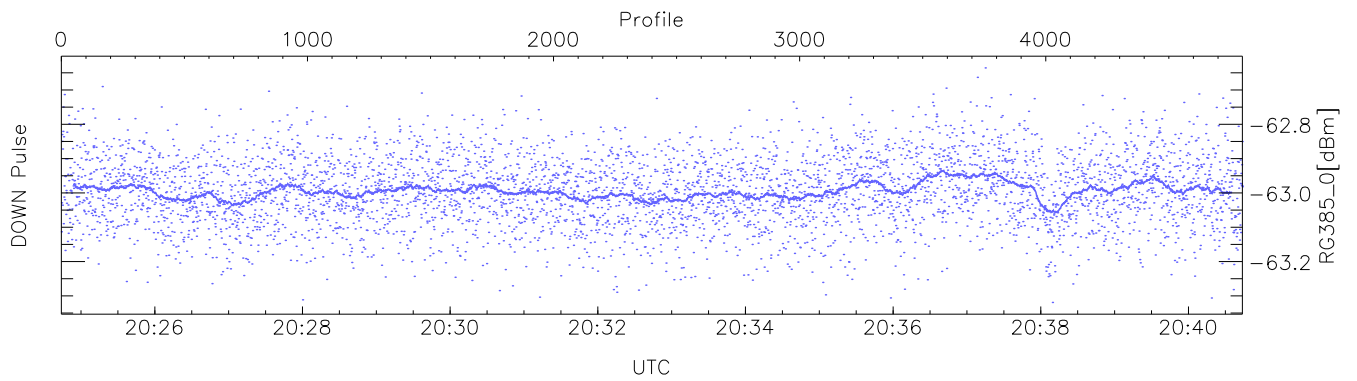
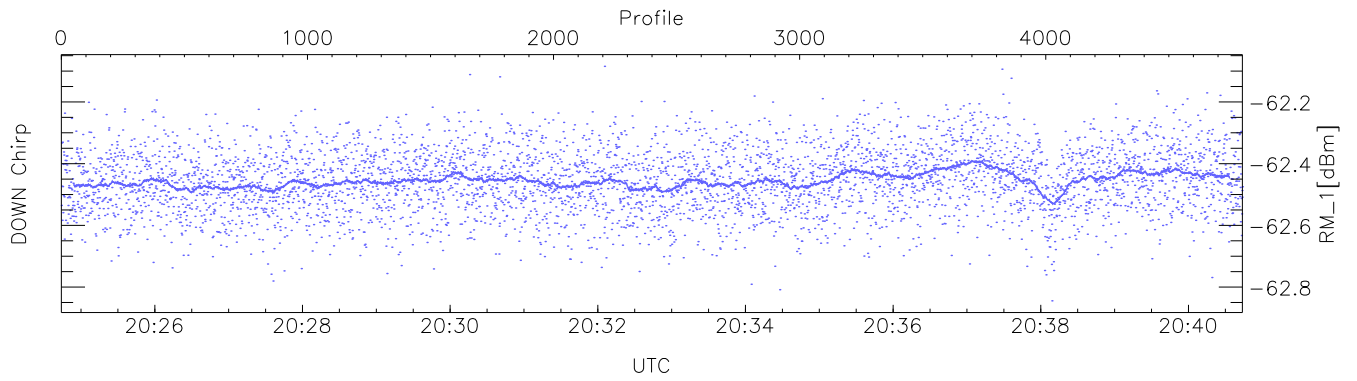
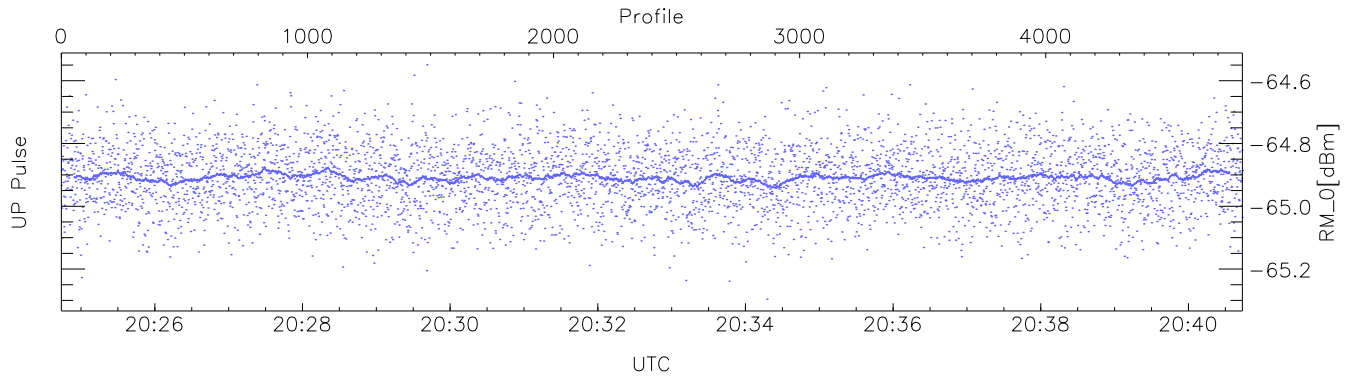
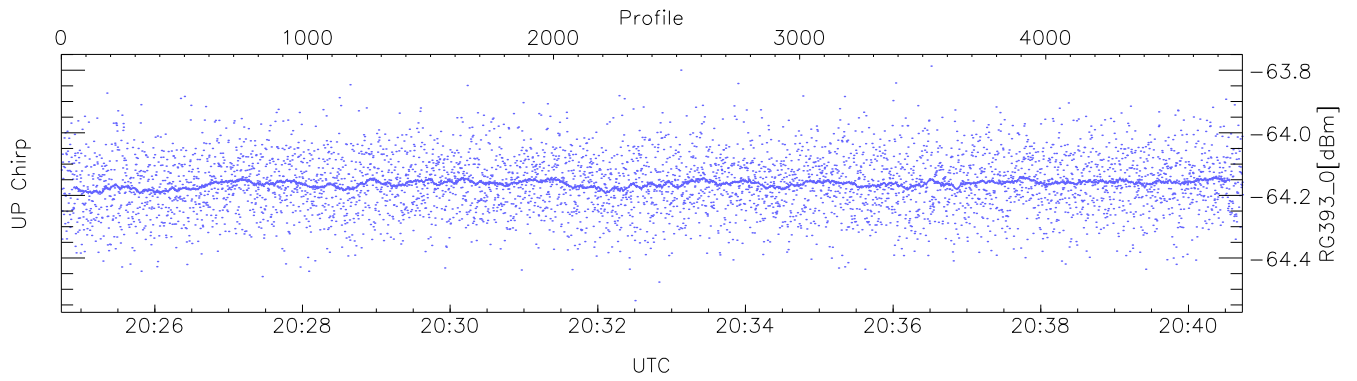
KPR SPP Receiver Noise Source Warm and Hot Measurements

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-62.71	-62.02	-62.38	-62.38	-78.86
Chirp(HL [dBm])	-58.23	-57.74	-57.96	-57.96	-76.25
Pulse(WL [dBm])	-63.26	-62.49	-62.85	-62.85	-79.29
Pulse(HL [dBm])	-59.88	-59.45	-59.65	-59.65	-78.05



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

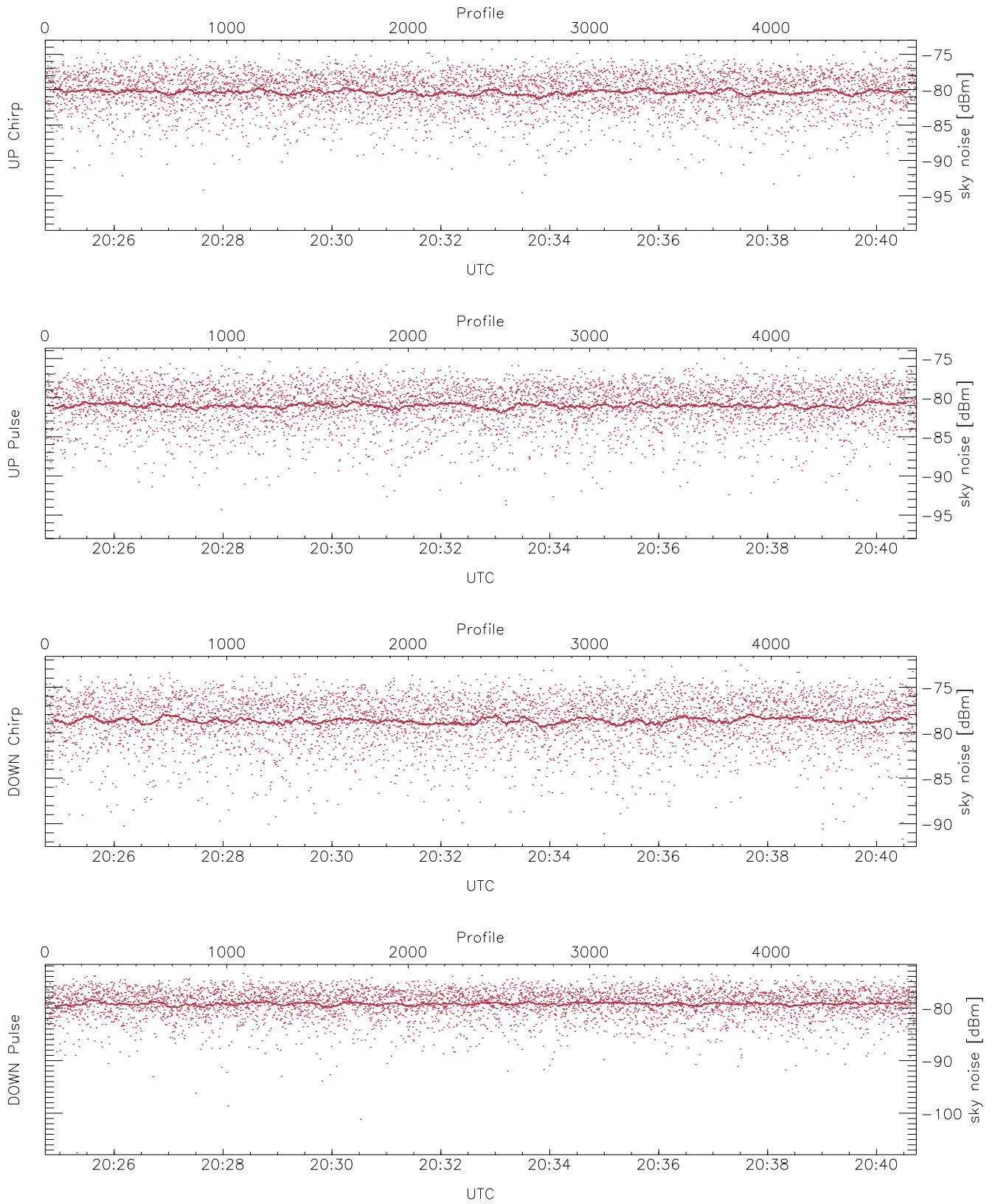
	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-64.49	-63.82	-64.16	-64.16	-80.64
UP Pulse(dBm)	-65.30	-64.55	-64.91	-64.91	-81.38
DOWN Chirp(dBm)	-62.84	-62.05	-62.45	-62.45	-78.80
DOWN Pulse(dBm)	-63.37	-62.63	-62.99	-62.99	-79.43



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

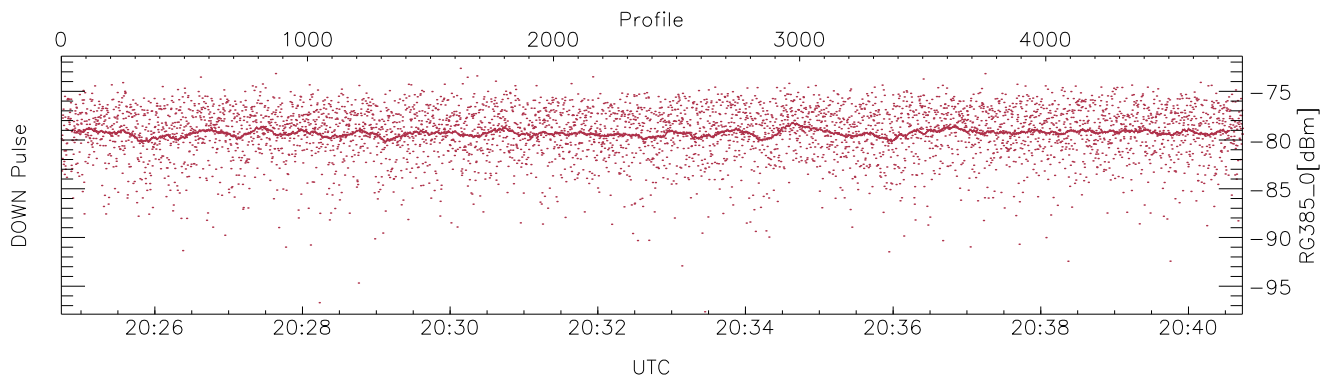
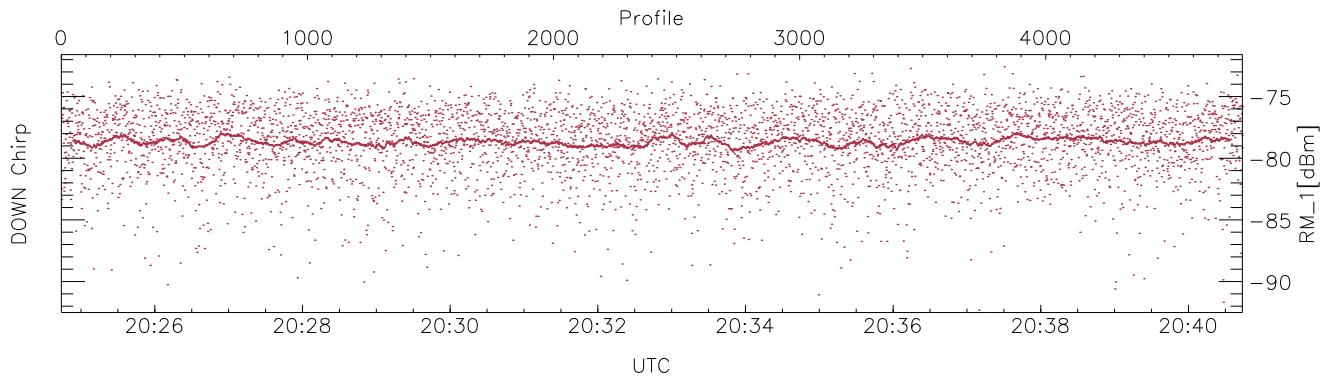
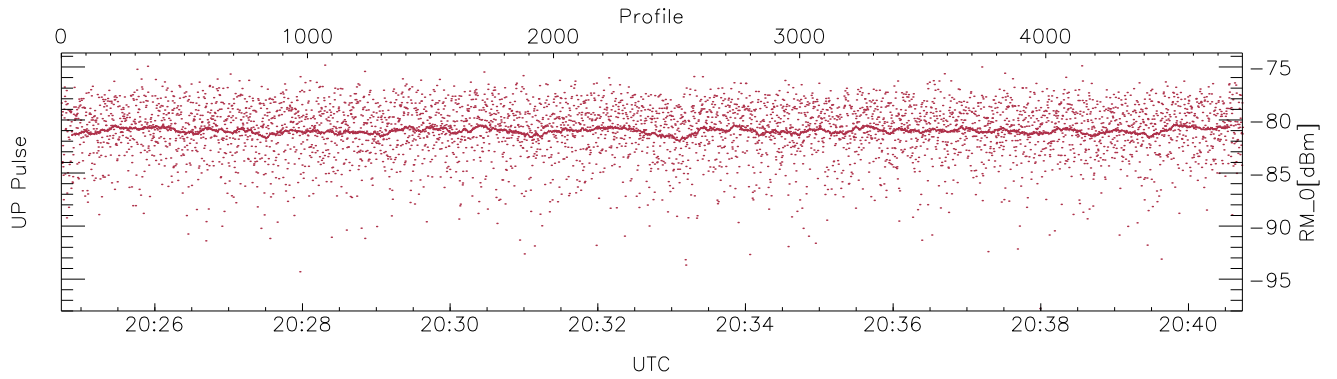
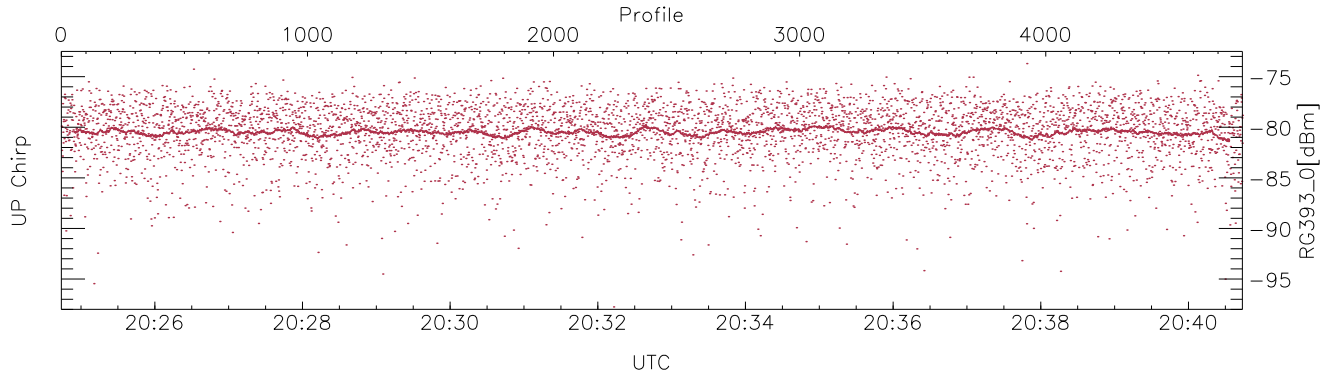
	Min	Max	Mean	Median	StDev
UP_C_RG393_0	-64.54	-63.79	-64.16	-64.16	-80.65
UP_P_RM_0	-65.30	-64.55	-64.91	-64.91	-81.38
DOWN_C_RM_1	-62.84	-62.08	-62.45	-62.45	-78.80
DOWN_P_RG385_0	-63.32	-62.64	-62.99	-62.99	-79.42





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

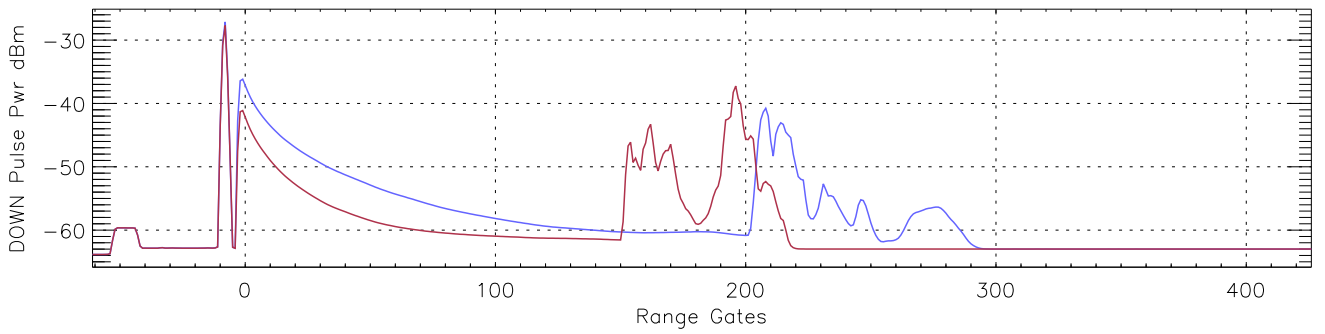
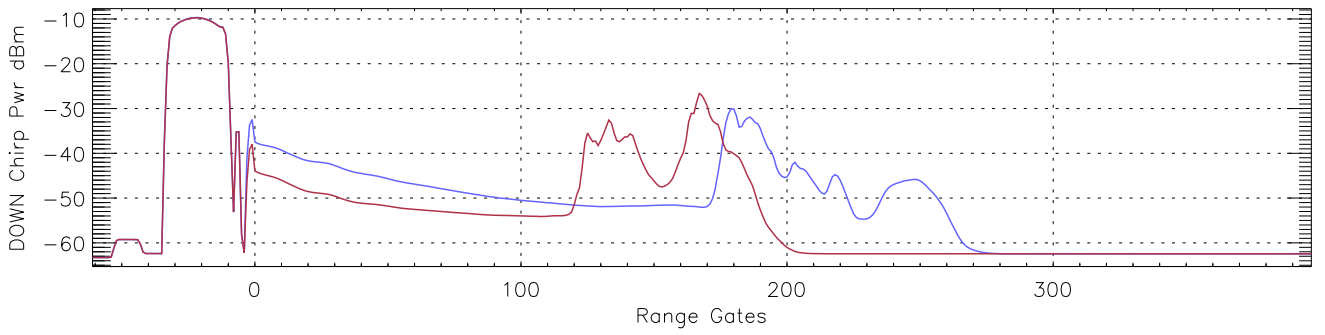
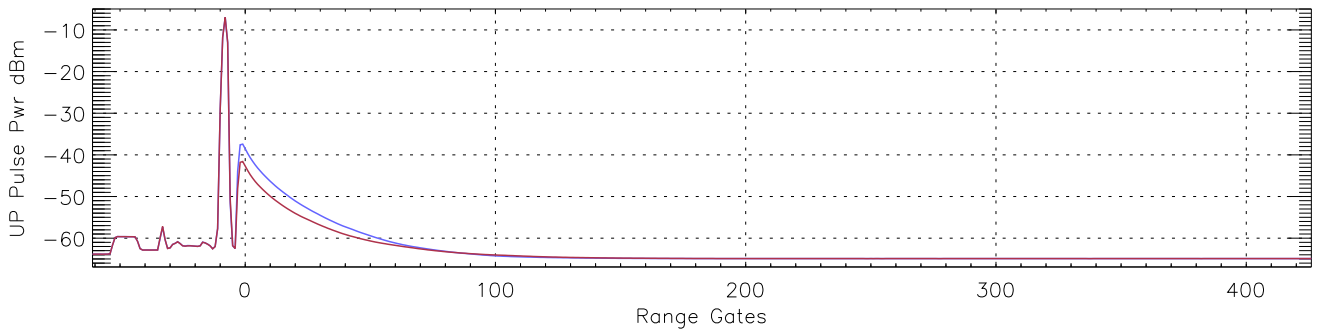
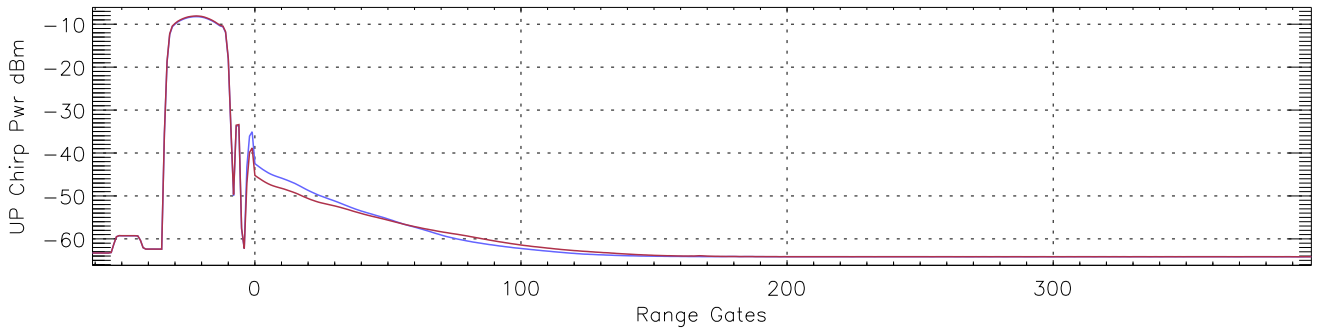
	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-99.64	-74.27	-79.63	-79.89	-82.43
UP Pulse(dBm)	-97.77	-74.83	-80.34	-80.61	-83.19
DOWN Chirp(dBm)	-92.32	-72.58	-77.97	-78.29	-80.84
DOWN Pulse(dBm)	-107.54	-73.42	-78.51	-78.77	-81.37



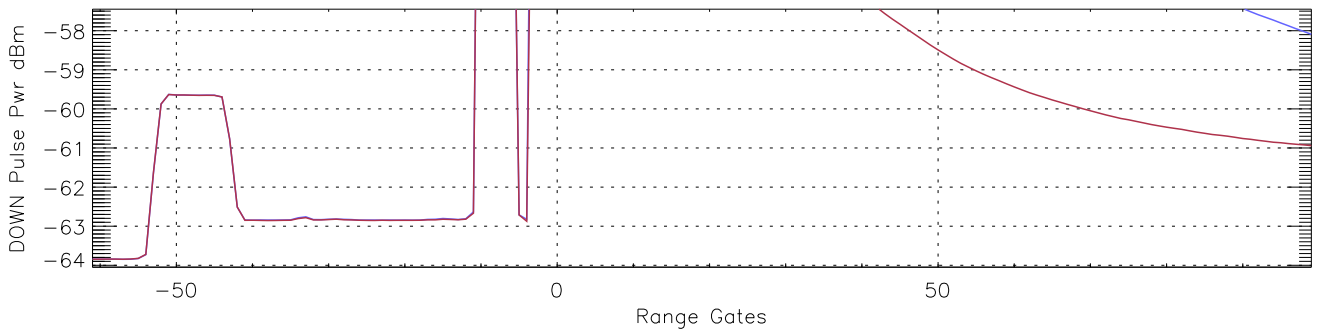
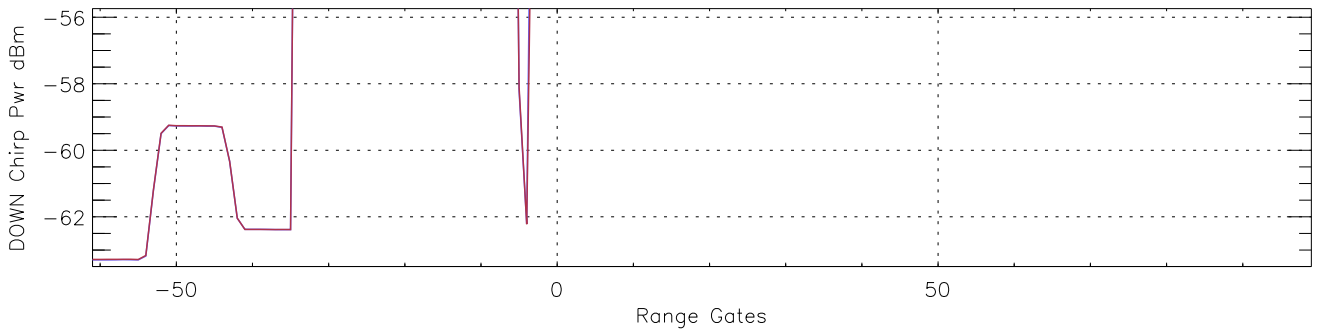
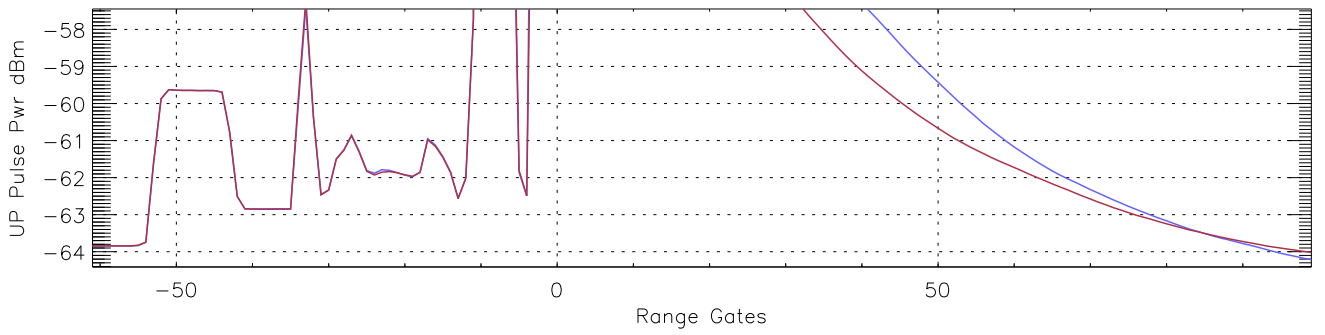
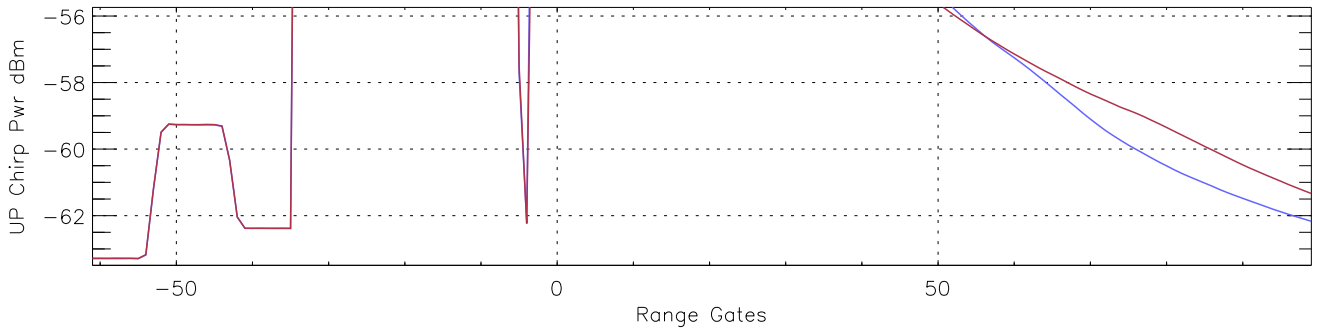
KPR SPP "Best" PPMAG noise (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RG393_0	-97.76	-73.71	-79.77	-80.02	-82.55
UP_P_RM_0	-97.77	-74.83	-80.34	-80.61	-83.19
DOWN_C_RM_1	-92.32	-72.58	-77.97	-78.29	-80.84
DOWN_P_RG385_0	-97.62	-72.64	-78.55	-78.83	-81.28

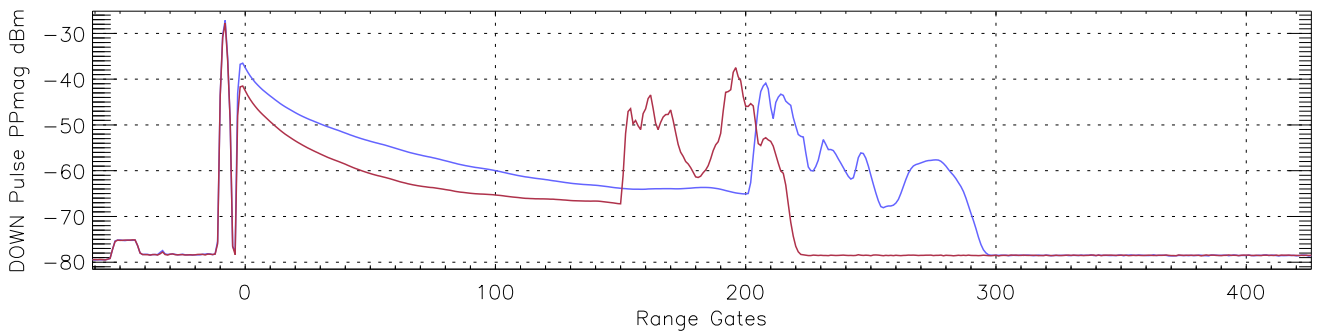
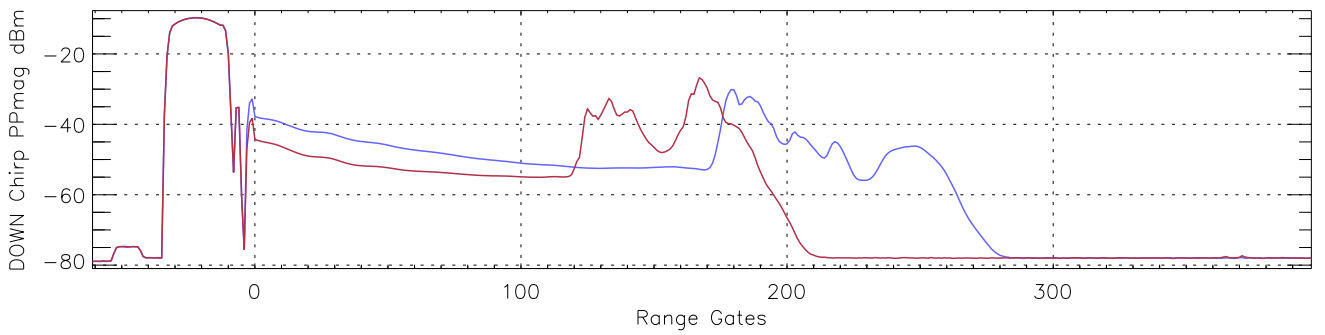
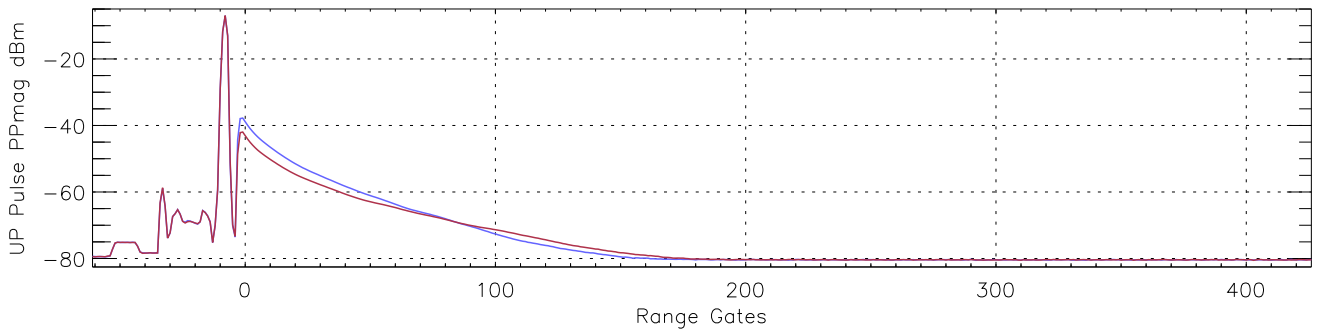
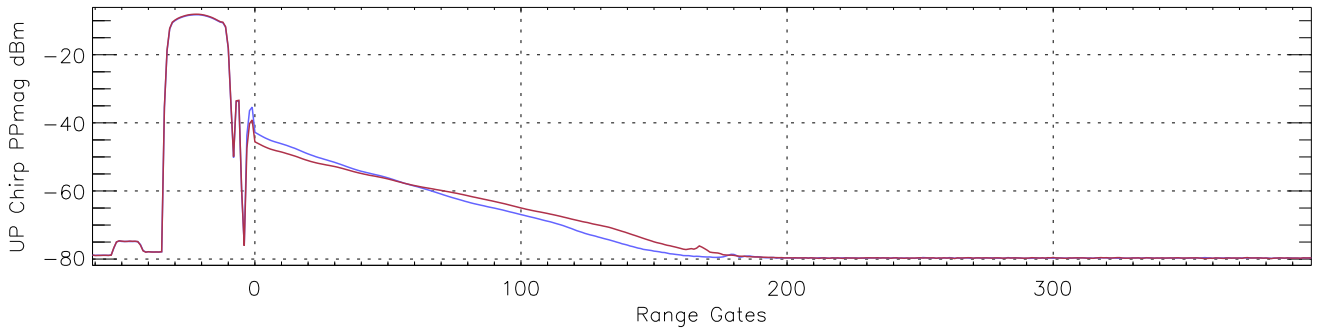




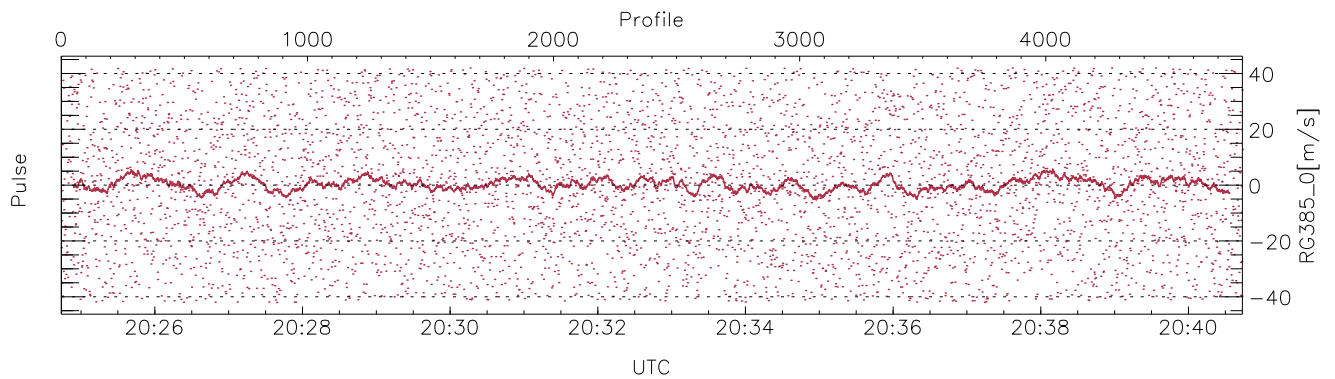
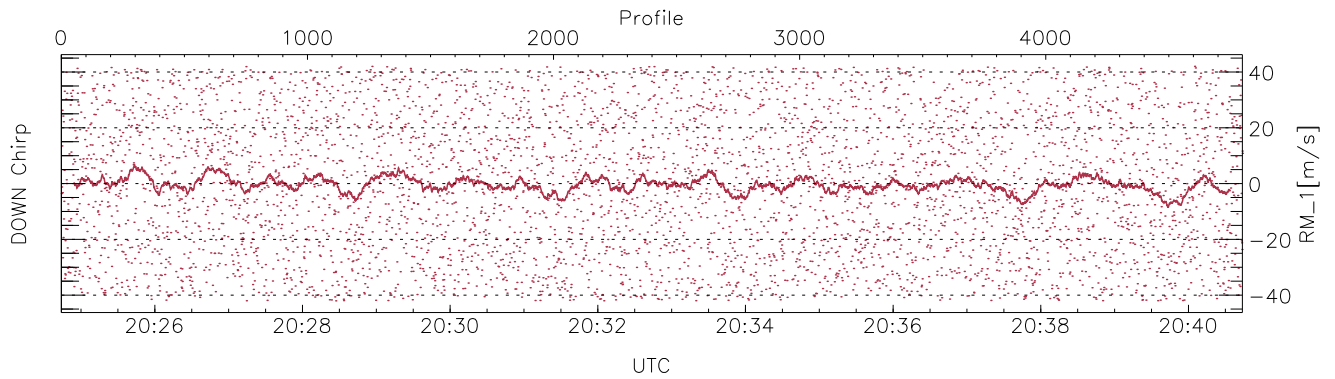
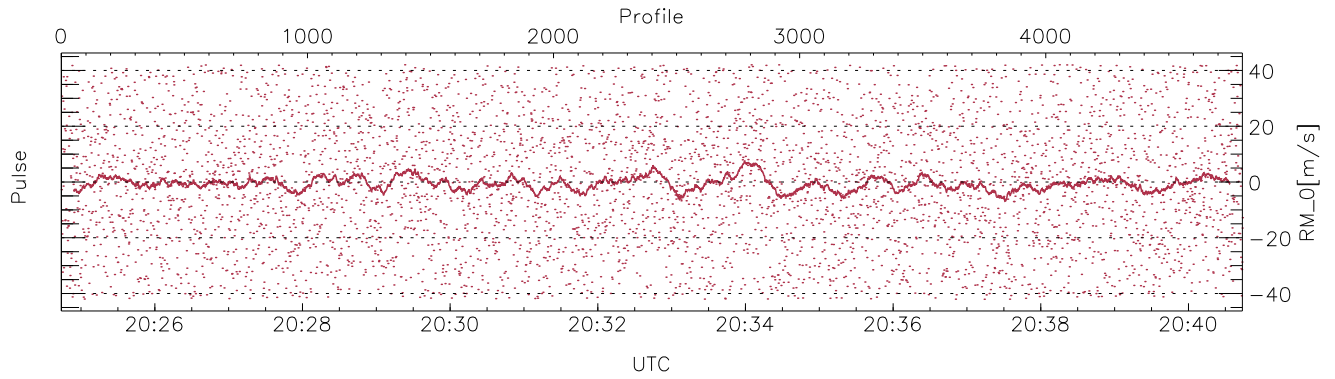
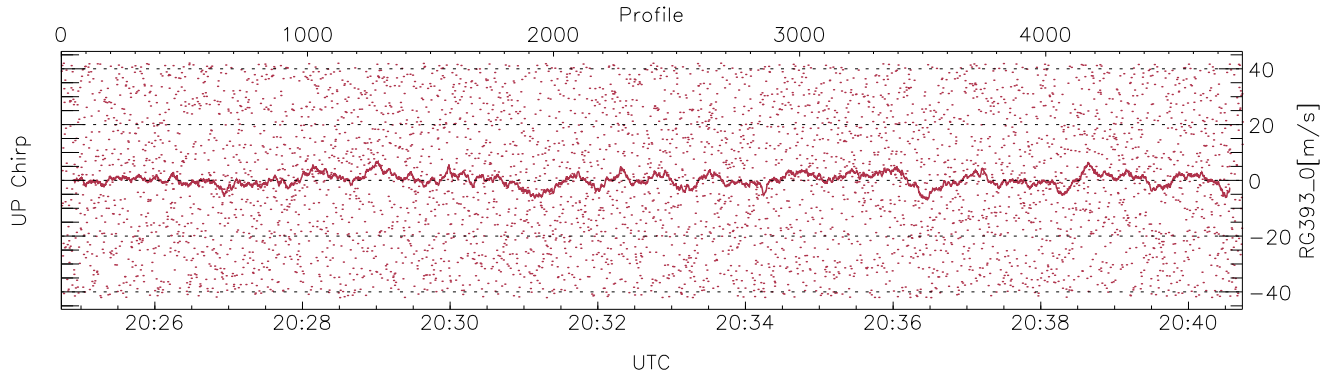
KPR SPP Averaged Received power for all recorded gates  
blue: 202444-203243, 2401 profiles averaged  
red: 203243-204044, 2400 profiles averaged



KPR SPP Averaged Power for neg. gates & up to 100 gates  
blue: 202444-203243, 2401 profiles averaged  
red: 203243-204044, 2400 profiles averaged

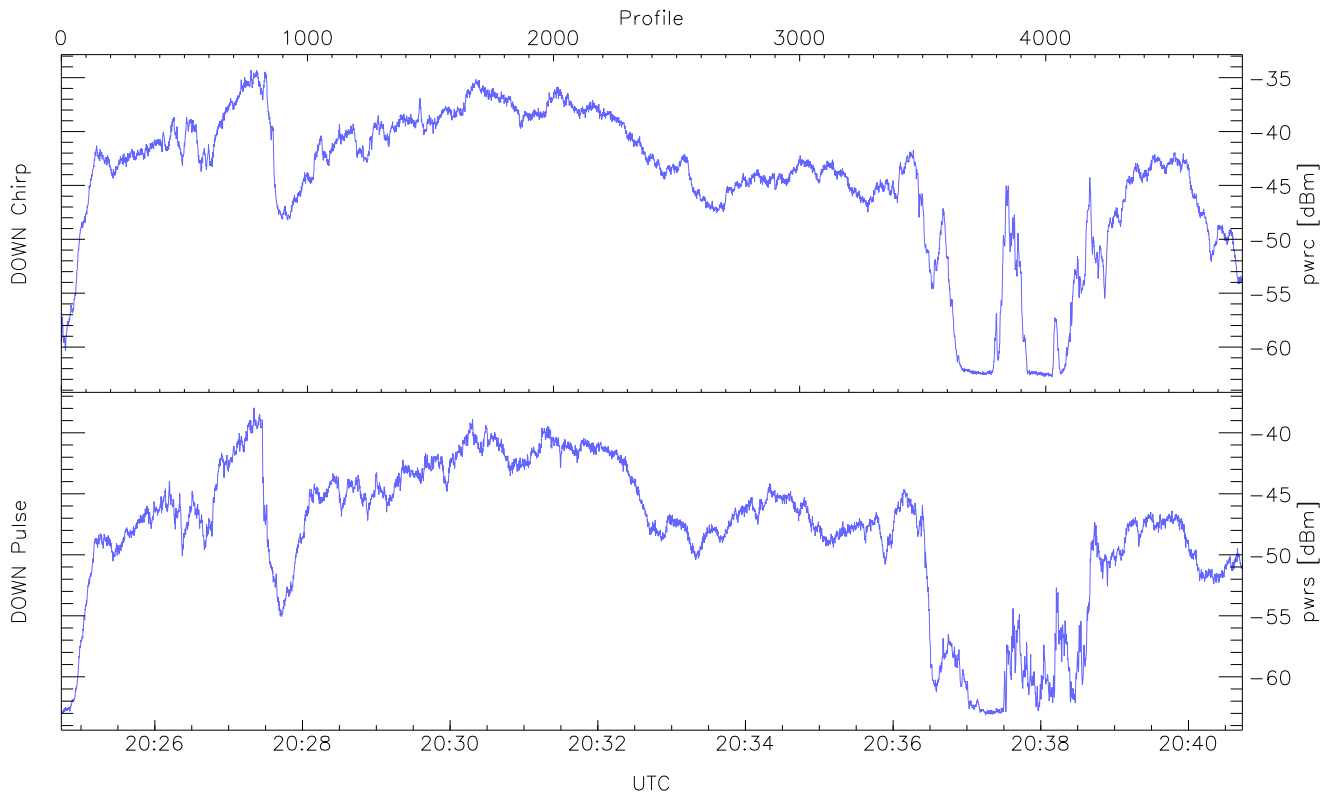
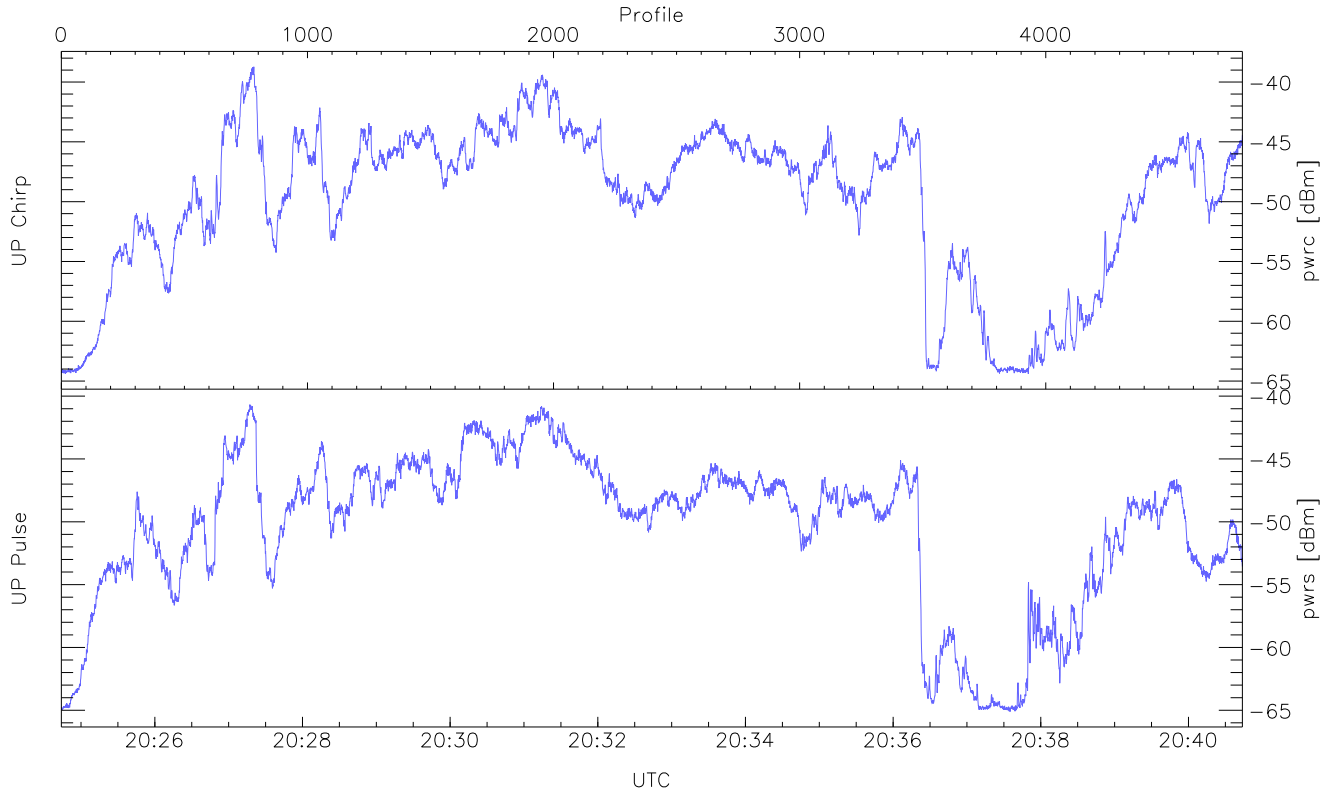


KPR SPP Averaged PP magnitude for all recorded gates  
blue: 202444-203243, 2401 profiles averaged  
red: 203243-204044, 2400 profiles averaged



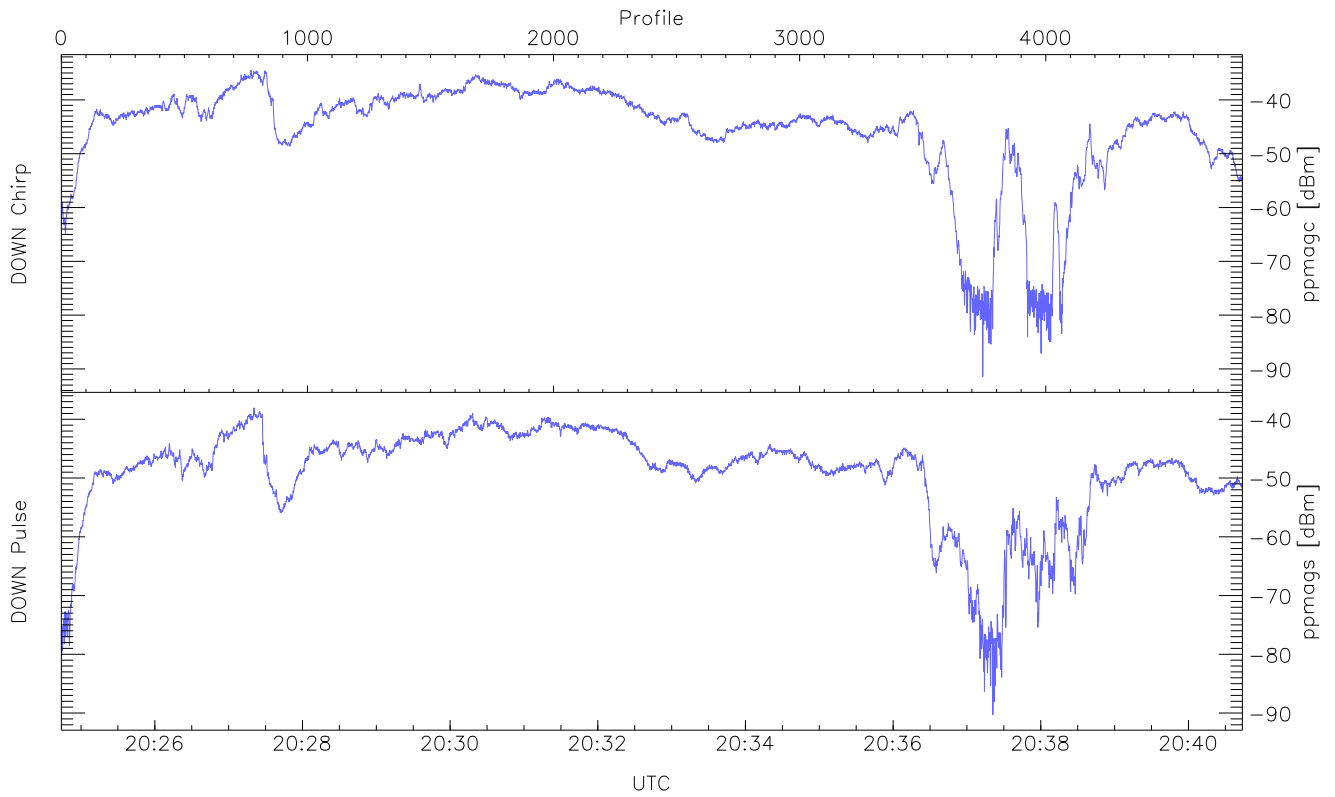
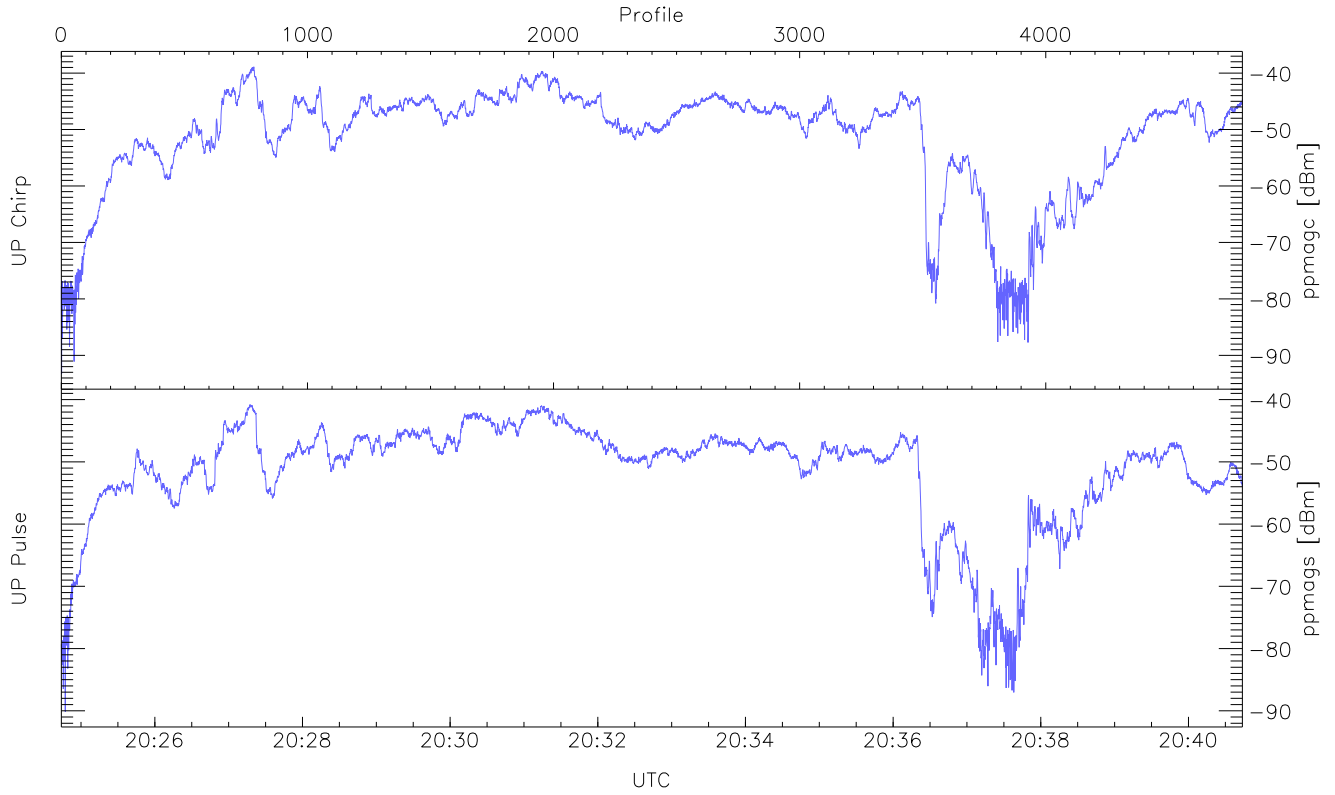
KPR SPP "Best" PPVEL noise (m/s):

	Min	Max	Mean	Median	StDev
UP_C_RG393_0	-42.06	42.03	0.07	0.24	24.39
UP_P_RM_0	-42.05	42.06	-0.63	-0.71	22.37
DOWN_C_RM_1	-42.05	42.04	-0.48	-0.90	24.24
DOWN_P_RG385_0	-42.03	41.99	0.18	0.33	22.86



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

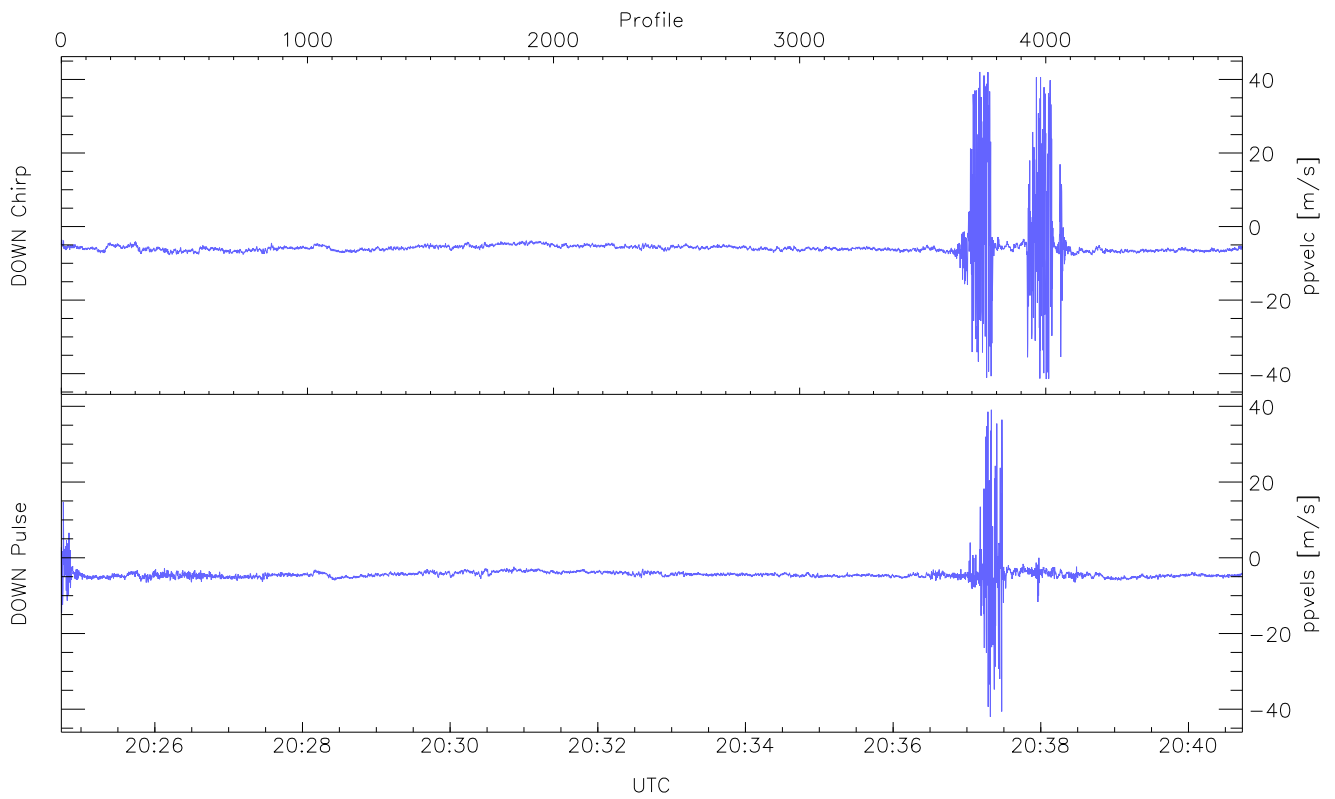
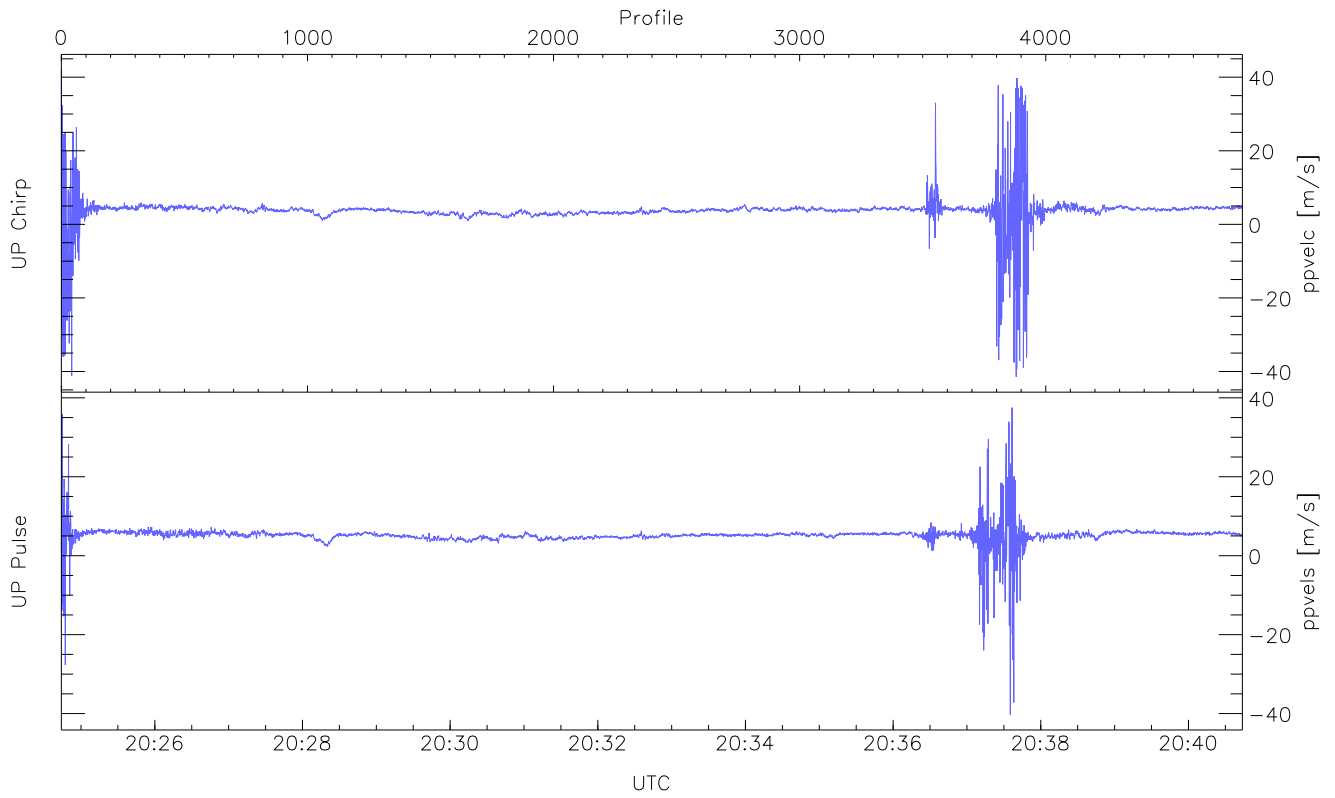
	Min	Max	Mean
UP Chirp(dBm)	-64.40	-38.72	-46.87
UP Pulse(dBm)	-65.11	-40.67	-47.77
DOWN Chirp(dBm)	-62.78	-34.28	-41.47
DOWN Pulse(dBm)	-63.12	-37.95	-45.43



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

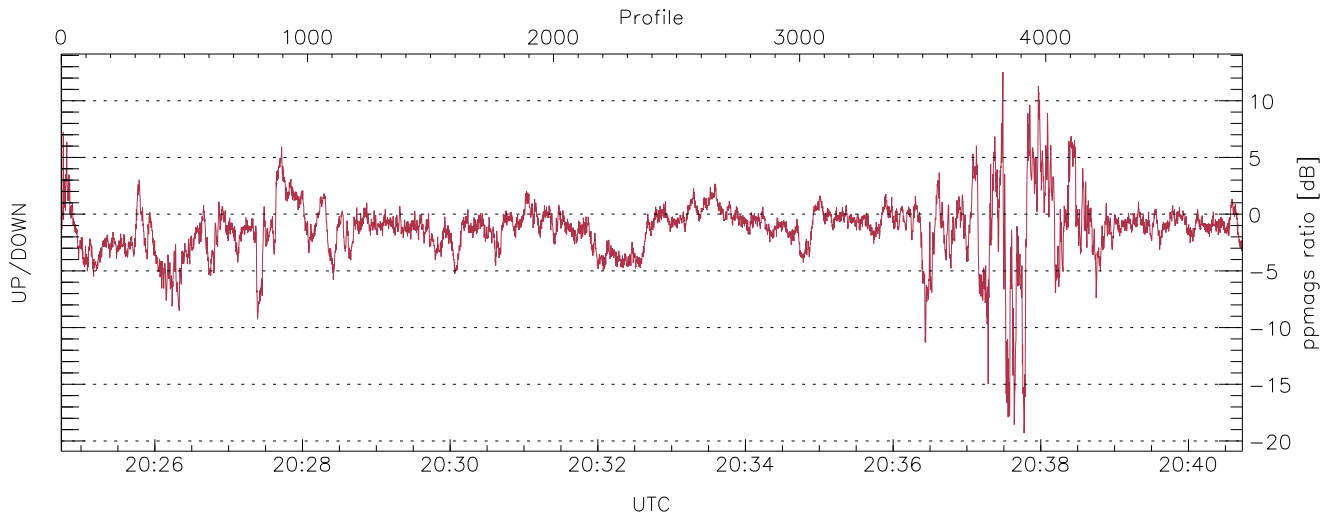
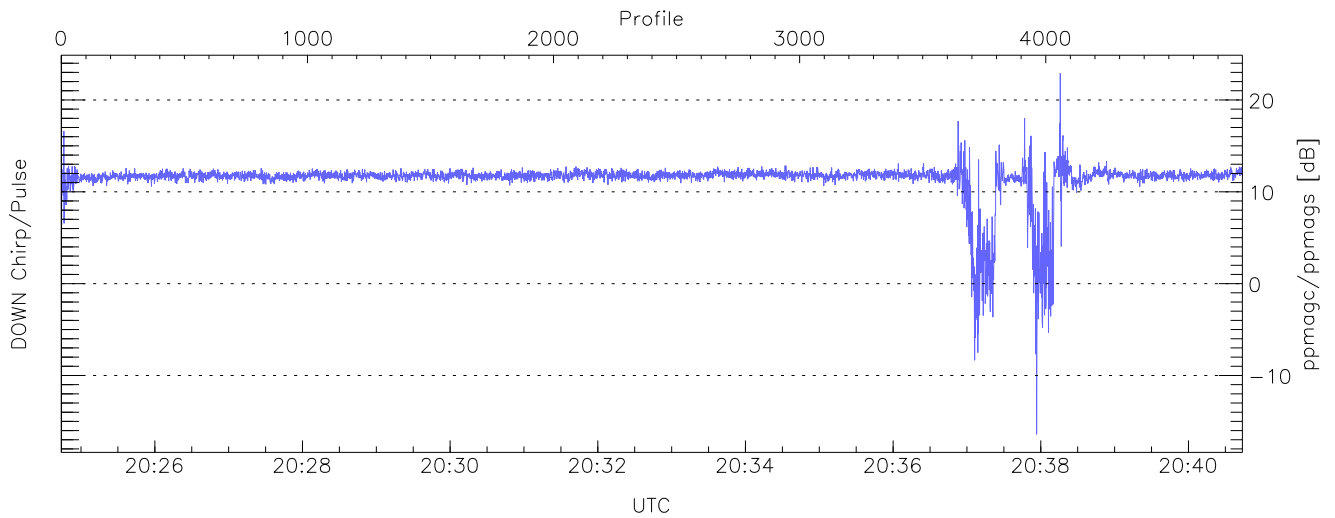
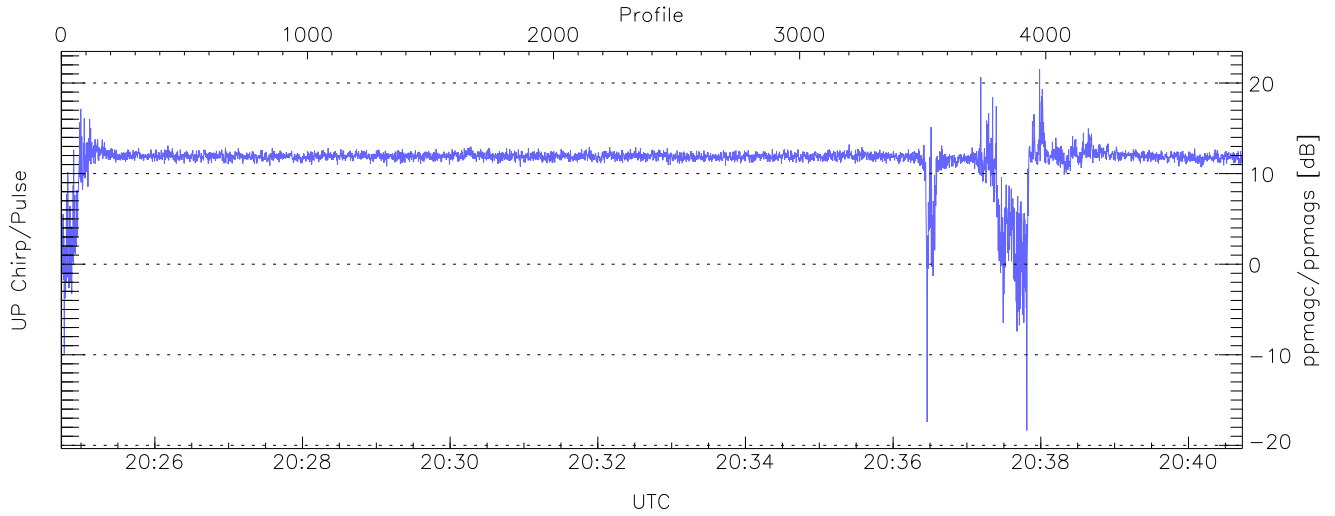
	Min	Max	Mean
UP Chirp(dBm)	-93.27	-38.88	-47.18
UP Pulse(dBm)	-90.13	-40.79	-47.98
DOWN Chirp(dBm)	-91.50	-34.43	-41.71
DOWN Pulse(dBm)	-90.30	-38.03	-45.63





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)	-41.45	42.02	3.72
UP Pulse(m/s)	-40.27	37.54	5.16
DOWN Chirp(m/s)	-41.46	42.03	-5.62
DOWN Pulse(m/s)	-42.00	39.09	-4.41



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

	Min	Max	Mean
UP Chirp/Pulse(dBm)	-18.36	21.50	11.79
DOWN Chirp/Pulse(dBm)	-16.41	22.91	11.65

UP/DOWN Ratio at Range 135.8 m

	Min	Max	Mean
UP/DOWN(dB)	-19.30	12.53	-0.51