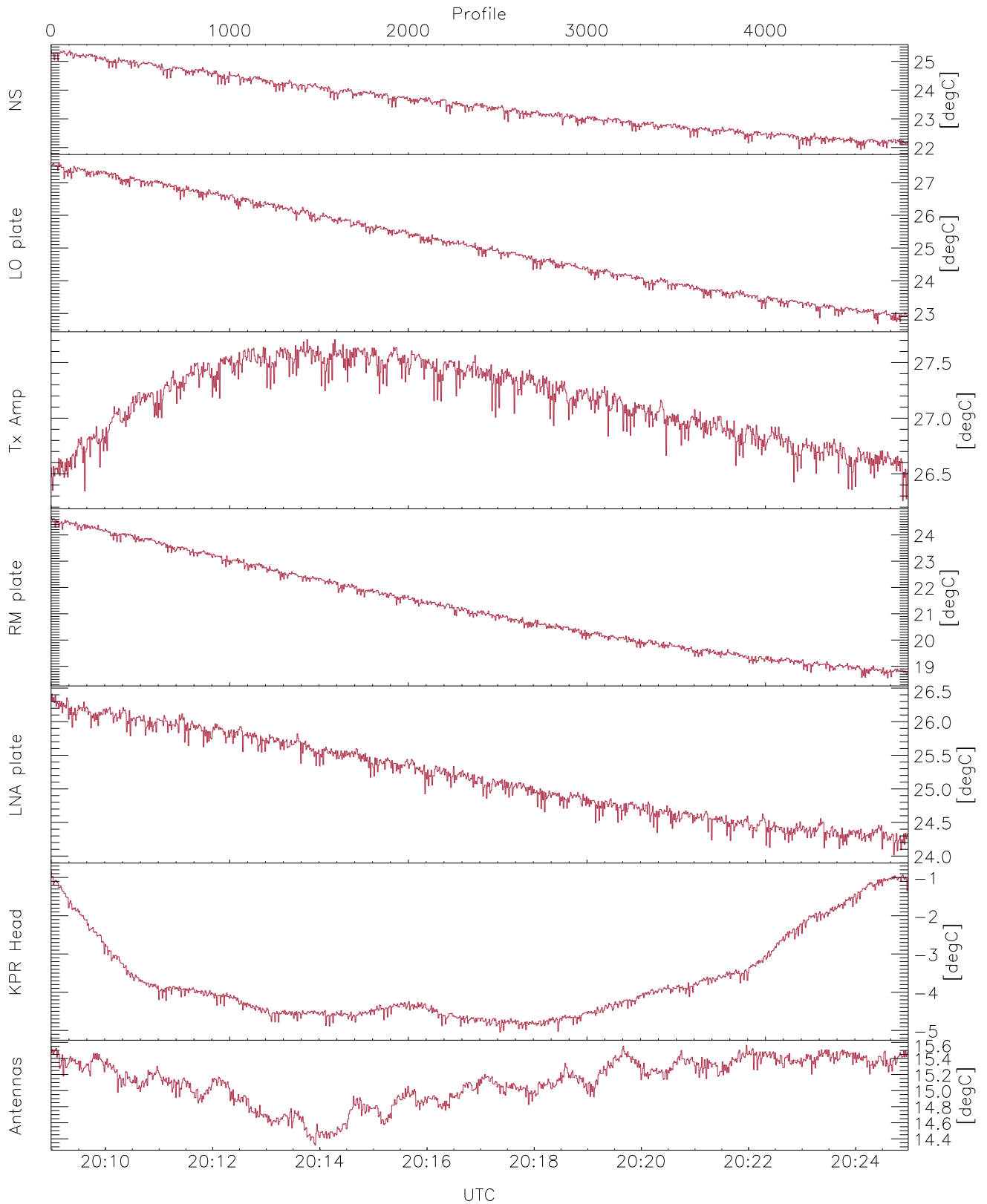


KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF  
 UTC: 20:08:59-20:54:28, TimeCor: 0.00s, Dur: 959.80s  
 TimeInt(min,max,mn,std): 188.1,211.9,200.0,1.1 ms; PPS: 5.0  
 NumRec(r/t): 4800/13644, 0-4799/20:08:59-20:24:59  
 AcqTime(req,actual): 200.0,200.0 ms, Data Rate: 187.6 KB/s  
 Pulse: 247 ns, Chirp: 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

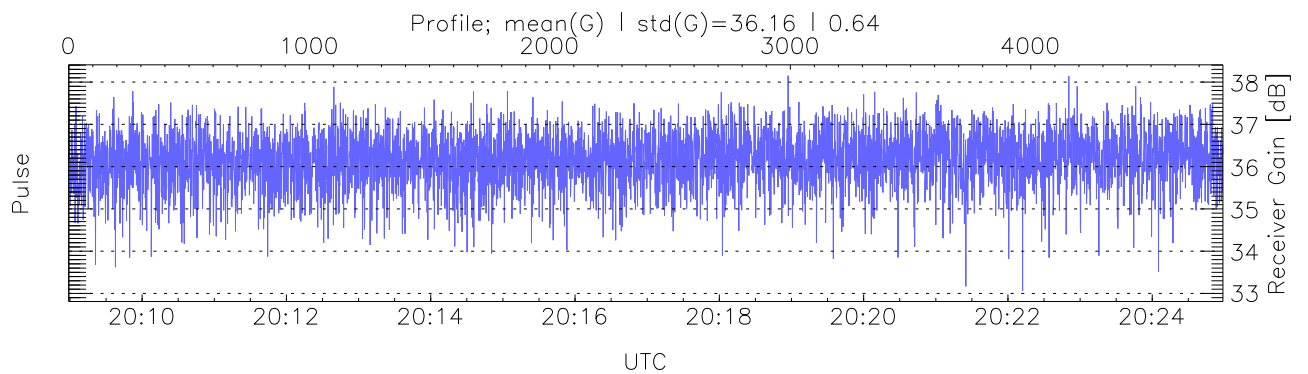
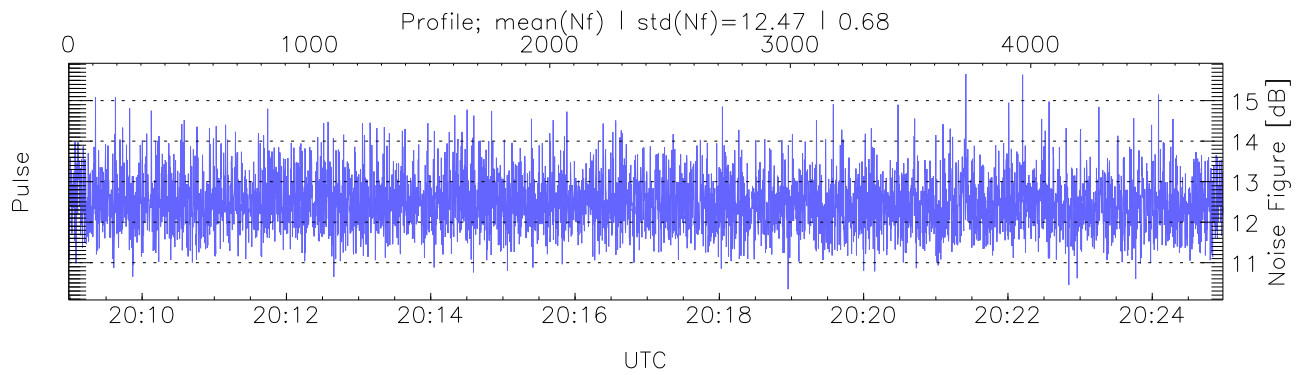
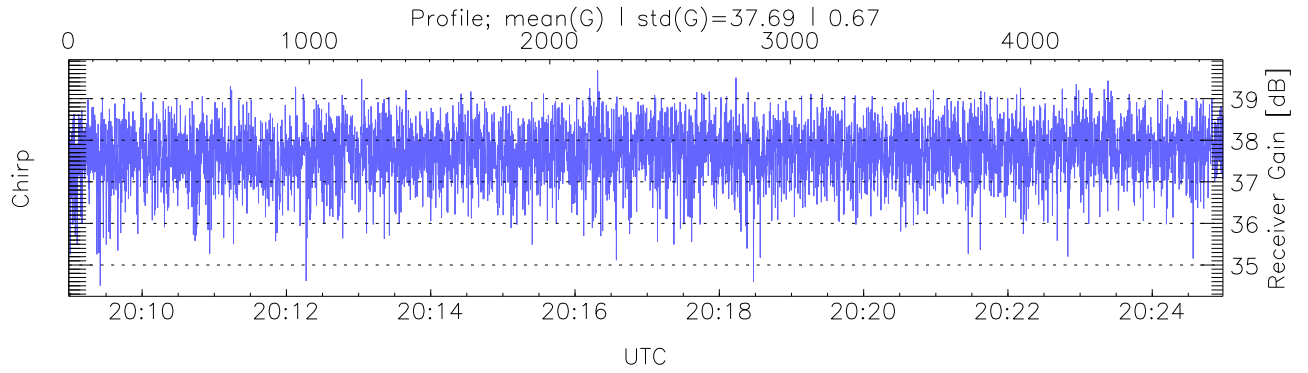
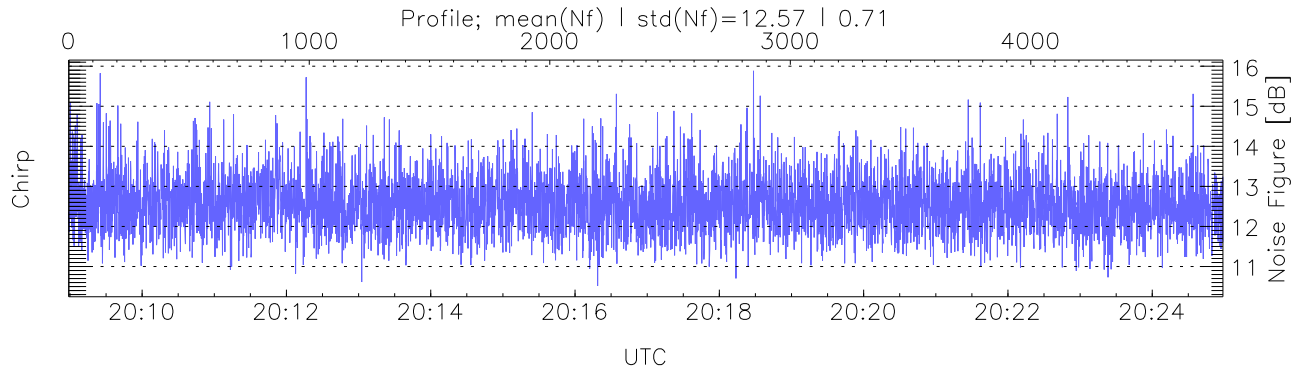


KPR SPP Temperatures, Power Supplies, PLO lock:

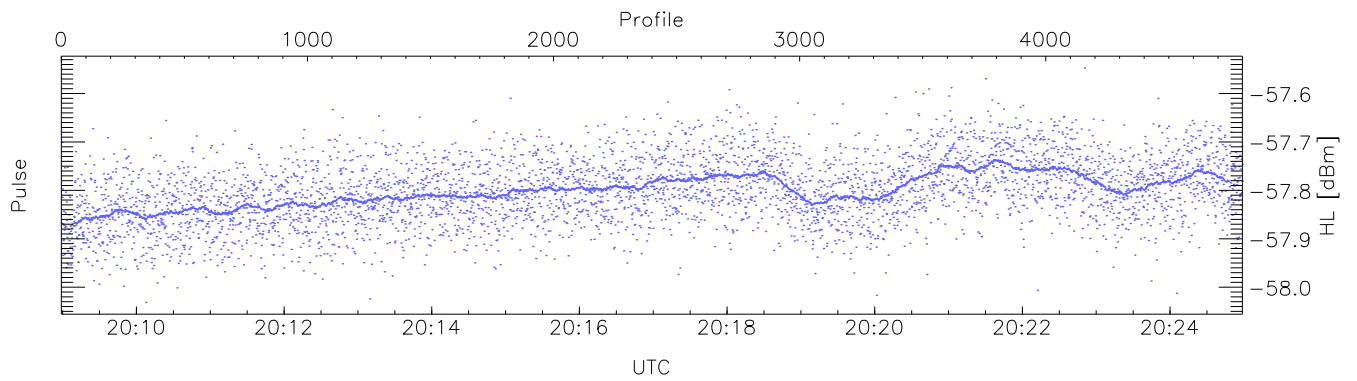
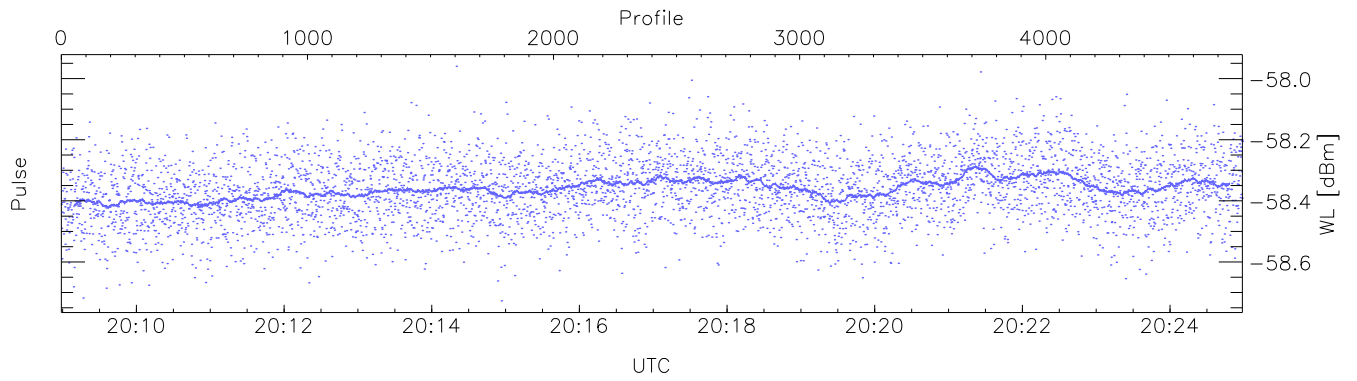
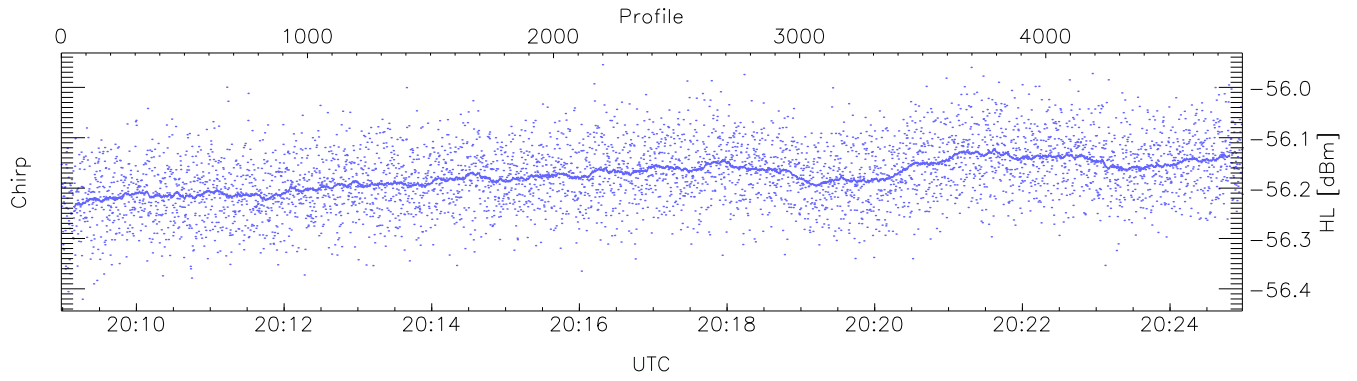
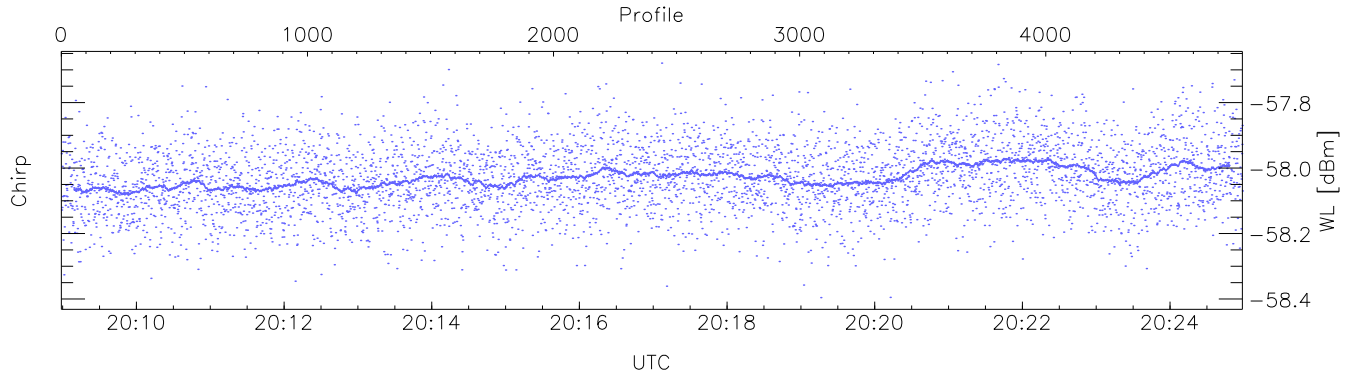
temperature: NS, LO, Tx, RM, LNA, Head, Ant  
 mintempC: 21.9, 22.7, 26.3, 18.6, 24.0, -5.0, 14.3  
 maxtempC: 25.4, 27.6, 27.7, 24.7, 26.4, -0.8, 15.6  
 meantempC: 23.5, 25.1, 27.1, 21.2, 25.2, -3.7, 15.1

PwrSply: 28, 12, 8, 5 VDC  
 minVDC: 25.44, 11.68, 7.87, 5.21  
 maxVDC: 27.86, 11.73, 7.90, 5.23  
 meanVDC: 26.94, 11.71, 7.88, 5.22

PLO(3.84,15.84 GHz) unlocked: None

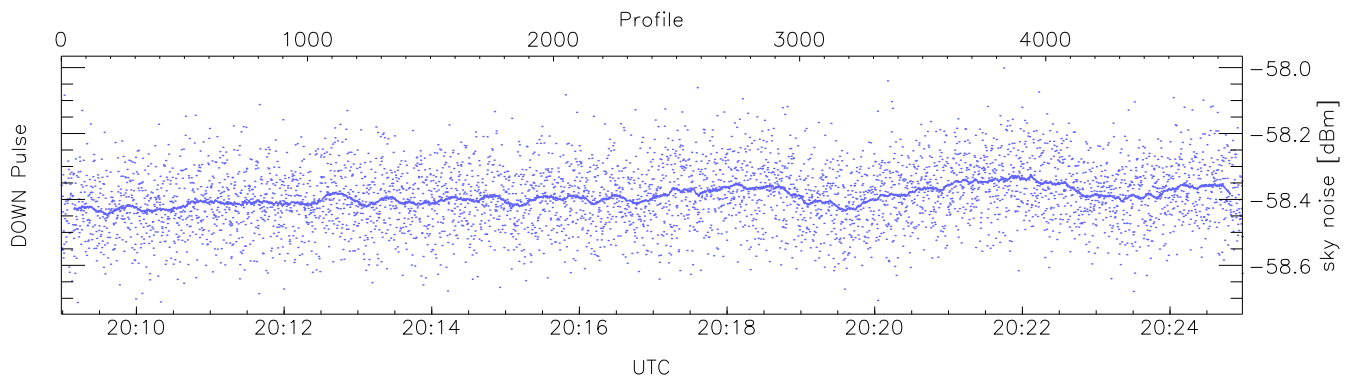
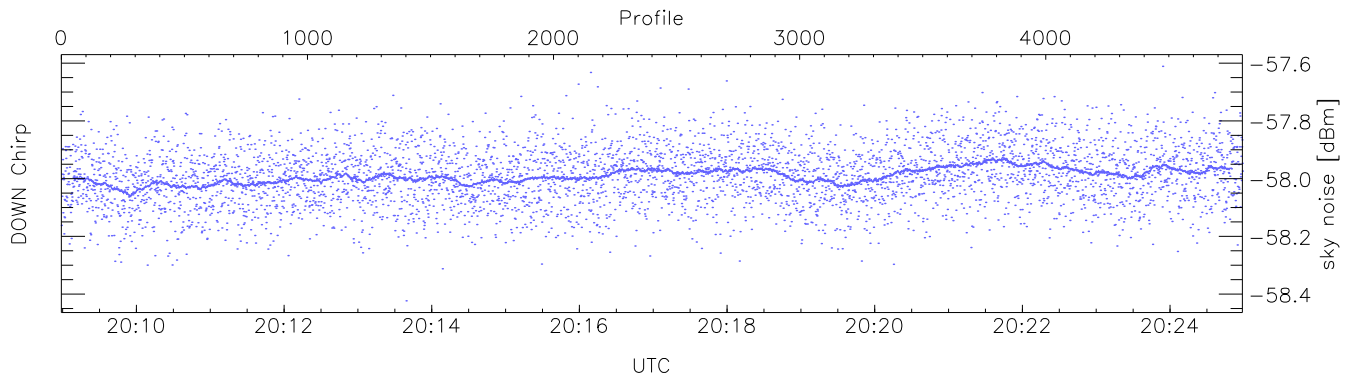
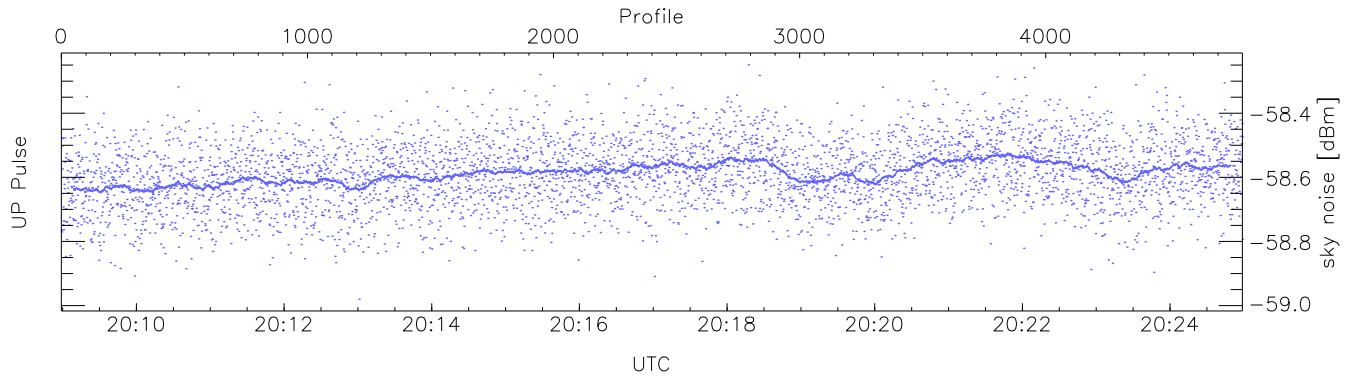
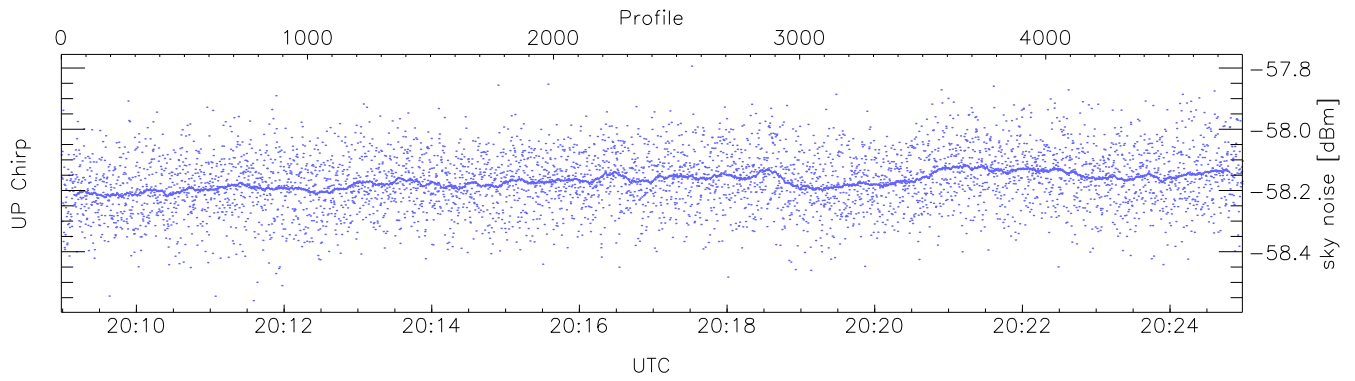


KPR SPP Receiver Gain and Noise Figure



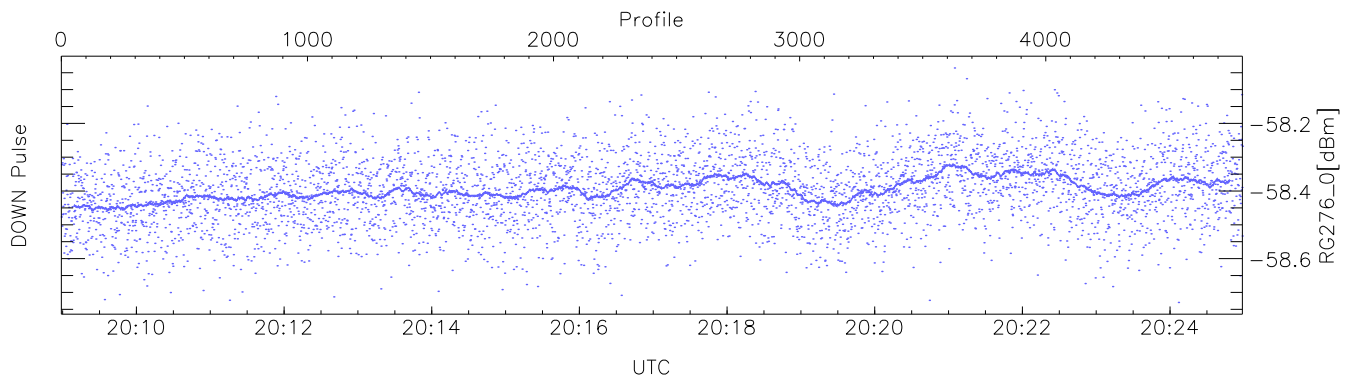
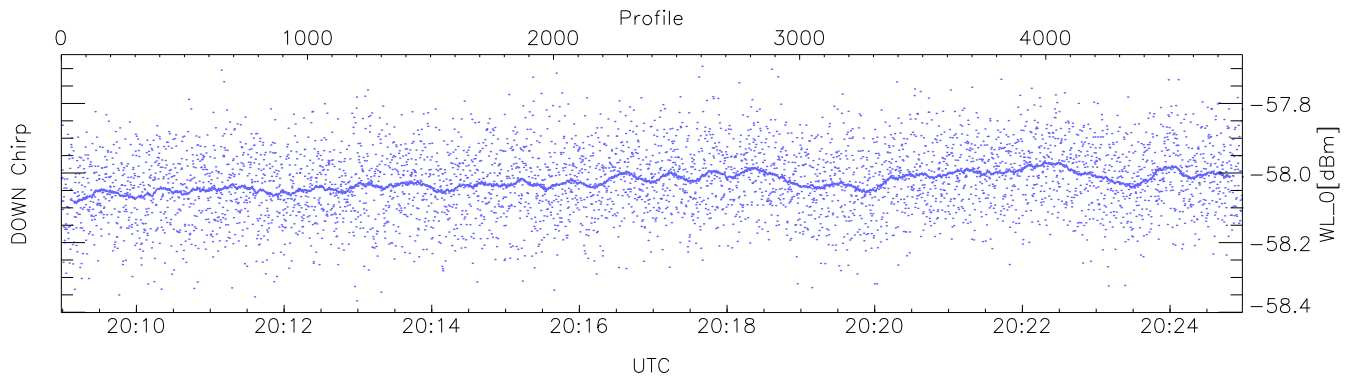
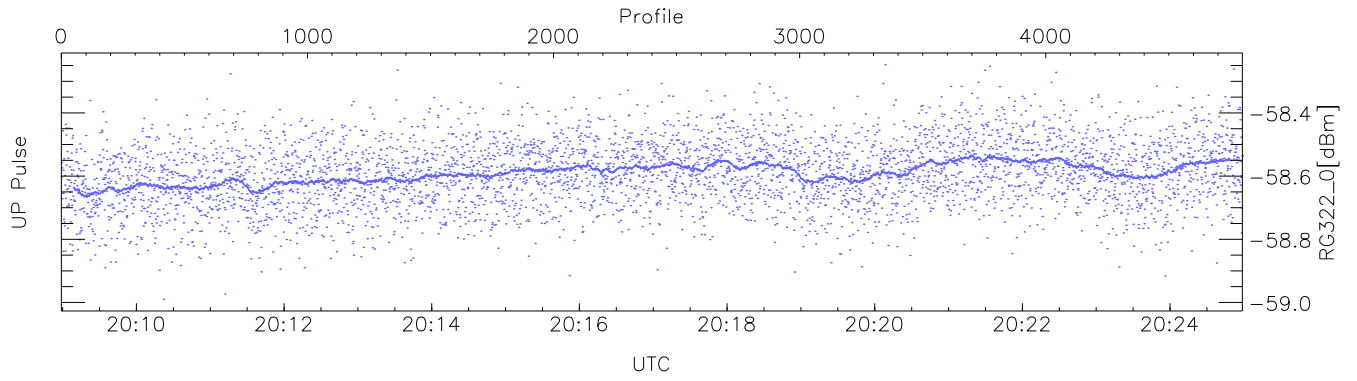
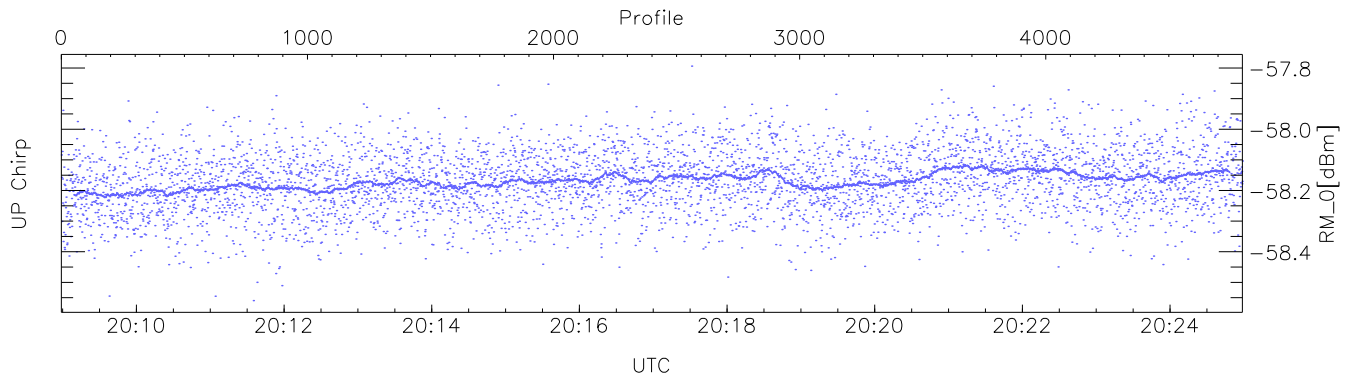
KPR SPP Receiver Noise Source Warm and Hot Measurements

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-58.40	-57.68	-58.03	-58.03	-74.35
Chirp(HL [dBm])	-56.42	-55.96	-56.18	-56.18	-74.39
Pulse(WL [dBm])	-58.73	-57.96	-58.36	-58.36	-74.70
Pulse(HL [dBm])	-58.03	-57.55	-57.80	-57.80	-75.95



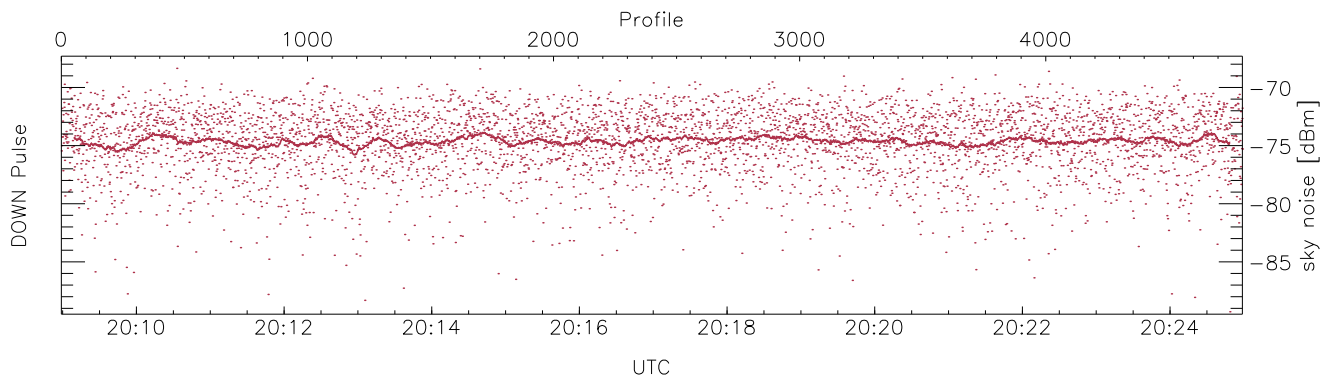
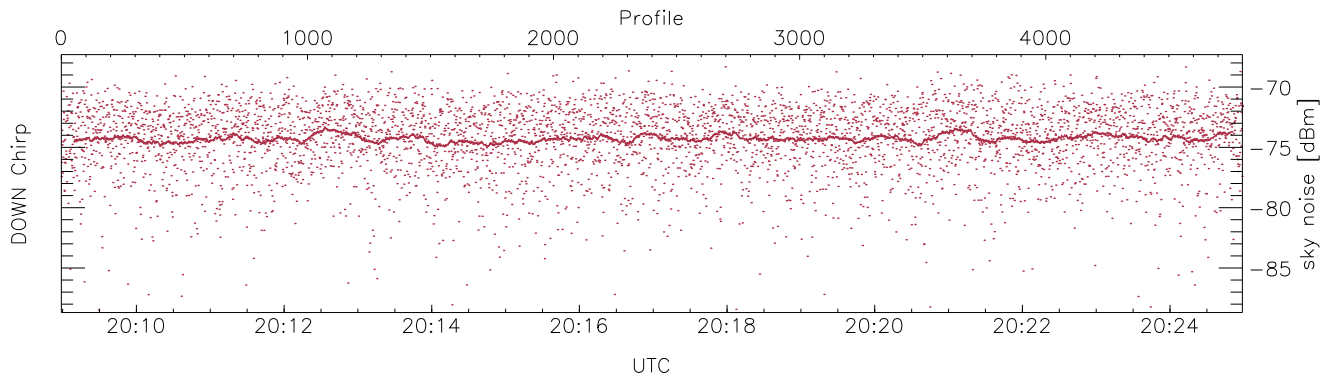
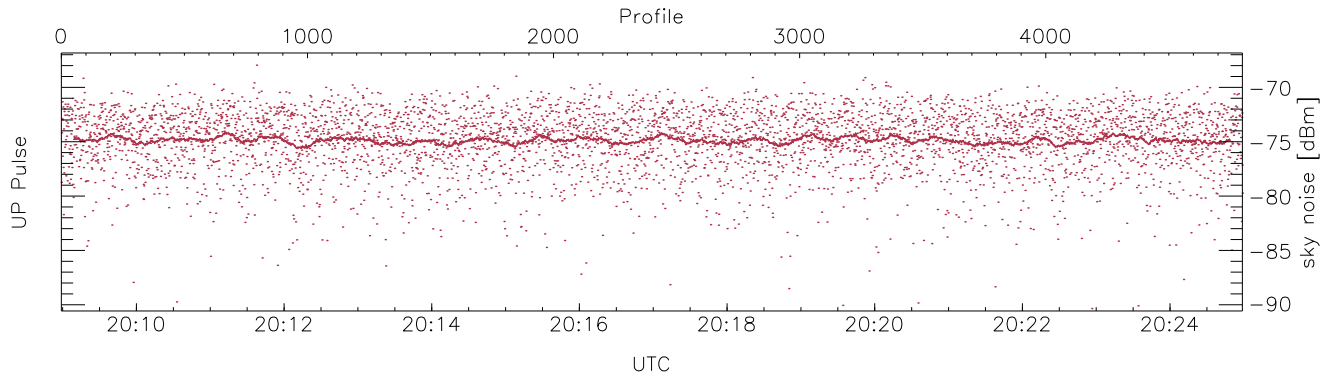
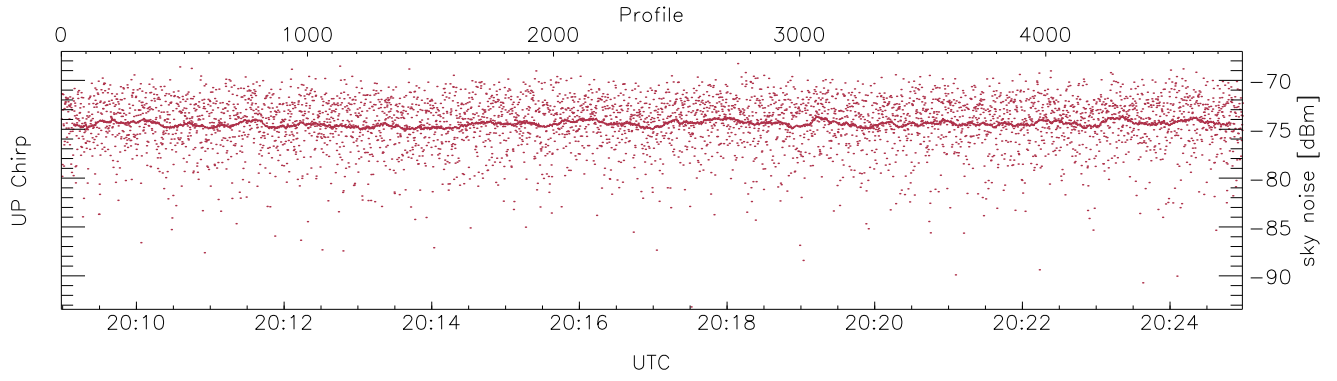
KPR SPP Last range gate power measurements: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-58.56	-57.79	-58.17	-58.17	-74.56
UP Pulse(dBm)	-58.98	-58.25	-58.59	-58.59	-74.93
DOWN Chirp(dBm)	-58.42	-57.61	-57.99	-57.99	-74.35
DOWN Pulse(dBm)	-58.71	-58.00	-58.39	-58.39	-74.83



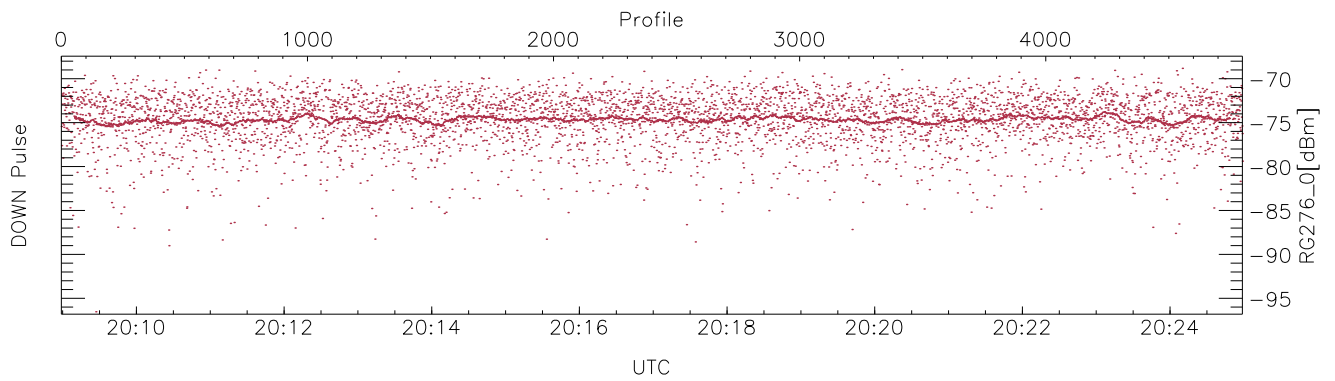
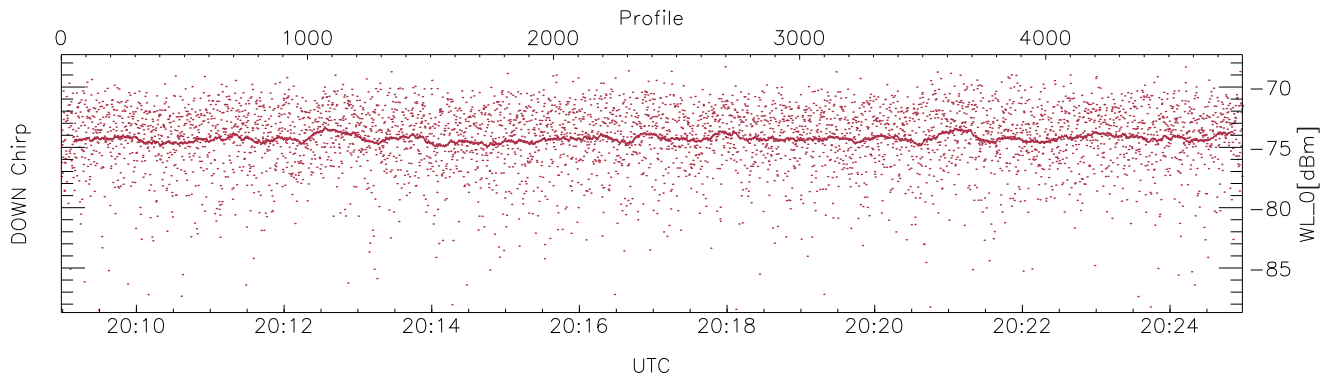
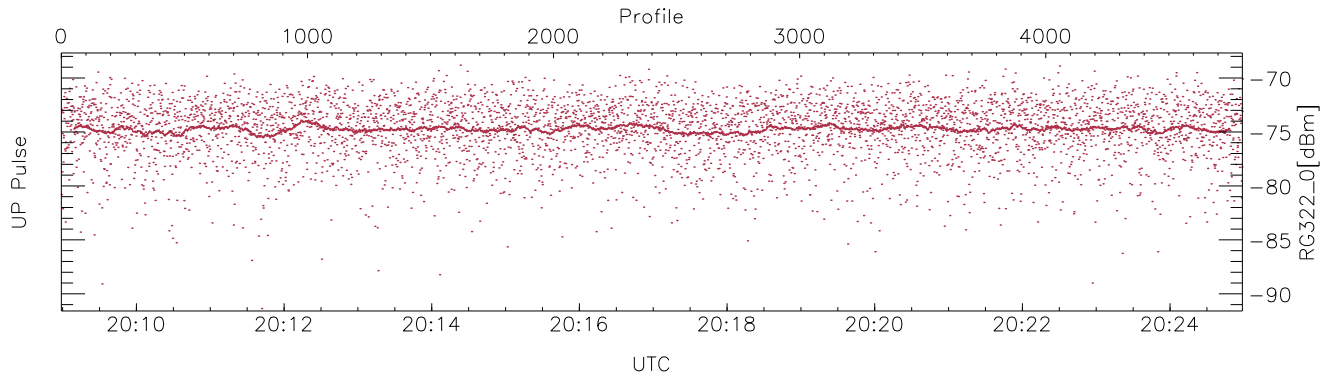
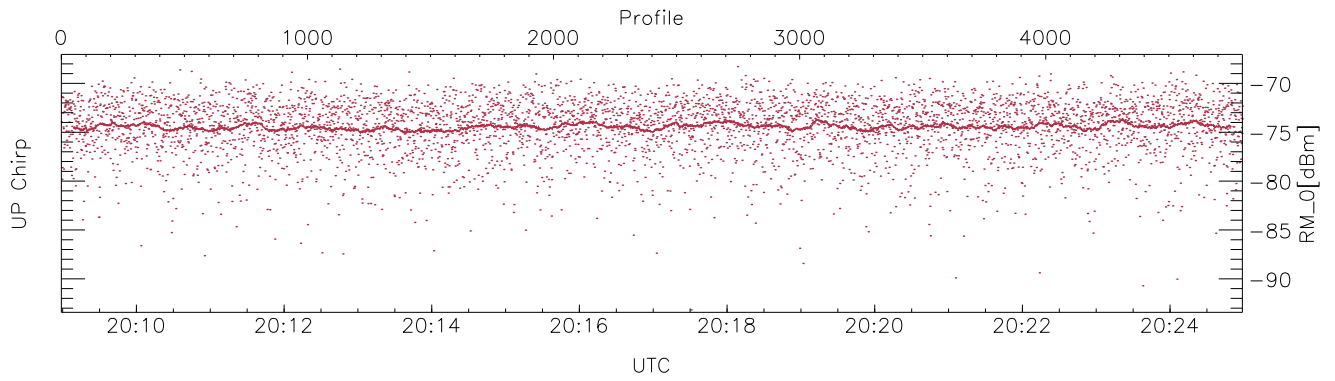
KPR SPP "Best" noise power measurements (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RM_0	-58.56	-57.79	-58.17	-58.17	-74.56
UP_P_RG322_0	-58.99	-58.25	-58.59	-58.59	-74.91
DOWN_C_WL_0	-58.37	-57.69	-58.03	-58.02	-74.33
DOWN_P_RG276_0	-58.73	-58.04	-58.40	-58.40	-74.74



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

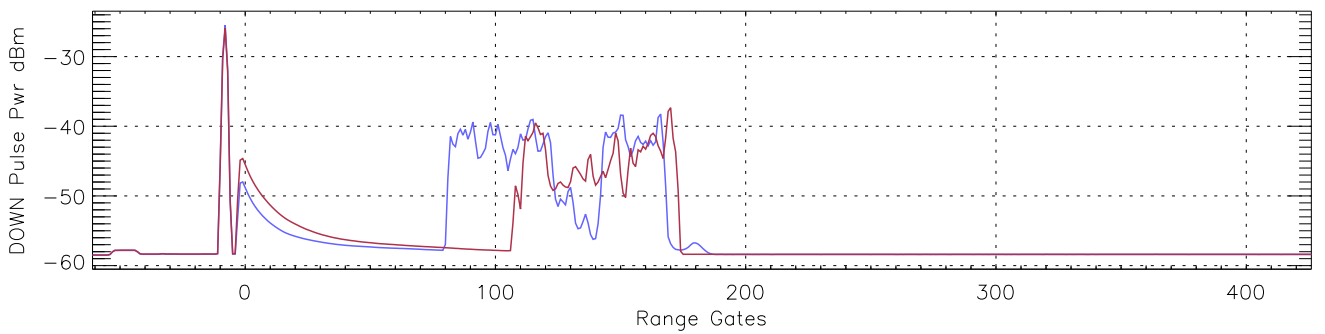
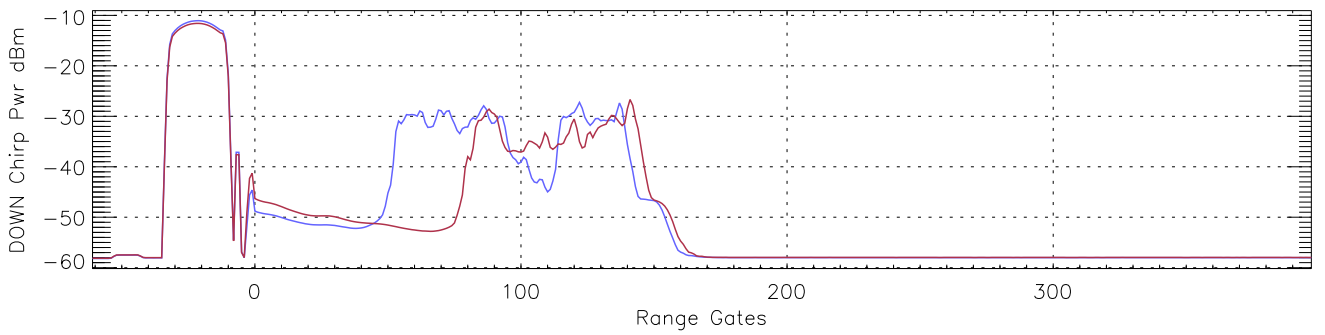
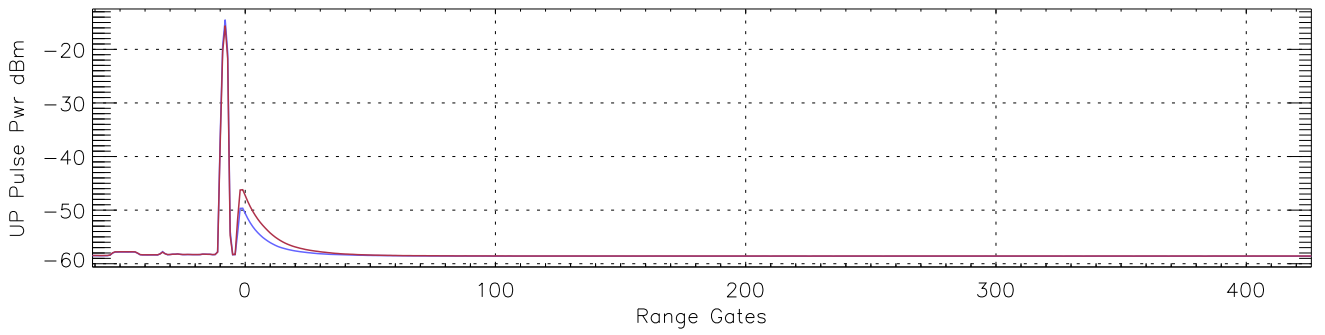
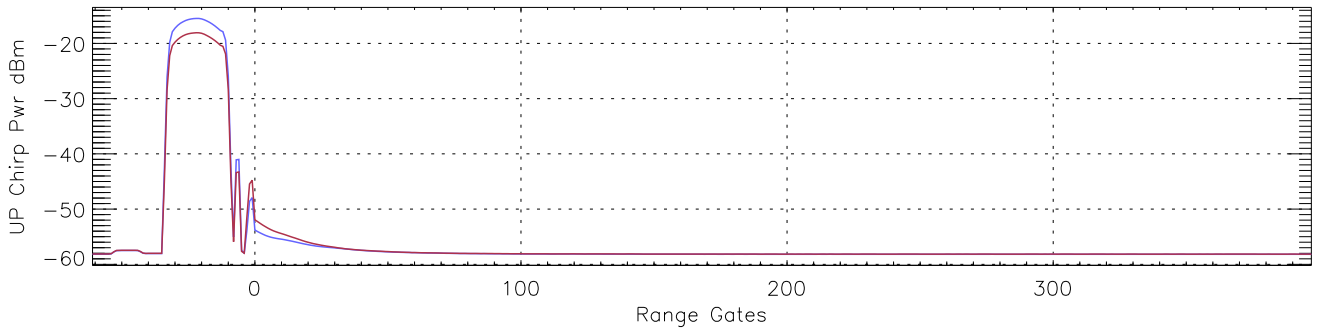
	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-93.18	-68.28	-73.70	-73.96	-76.47
UP Pulse(dBm)	-90.35	-67.96	-74.16	-74.43	-76.95
DOWN Chirp(dBm)	-88.49	-68.32	-73.54	-73.83	-76.35
DOWN Pulse(dBm)	-89.29	-68.36	-73.91	-74.20	-76.67



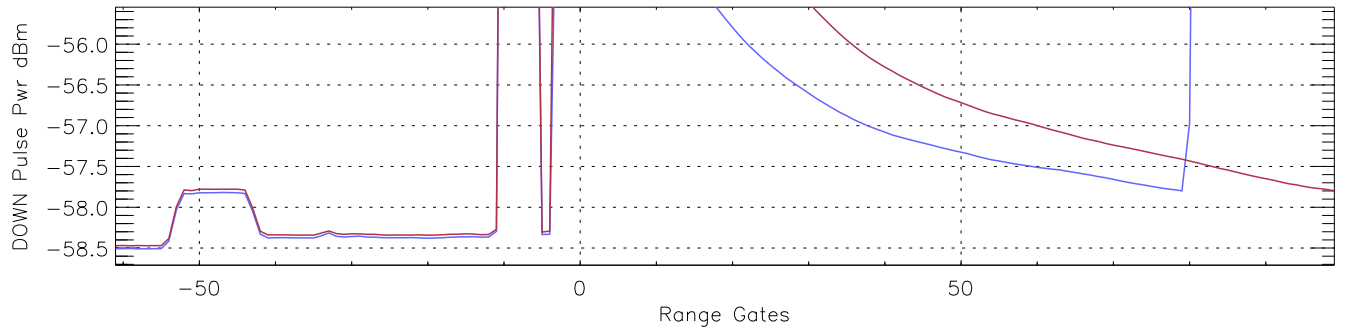
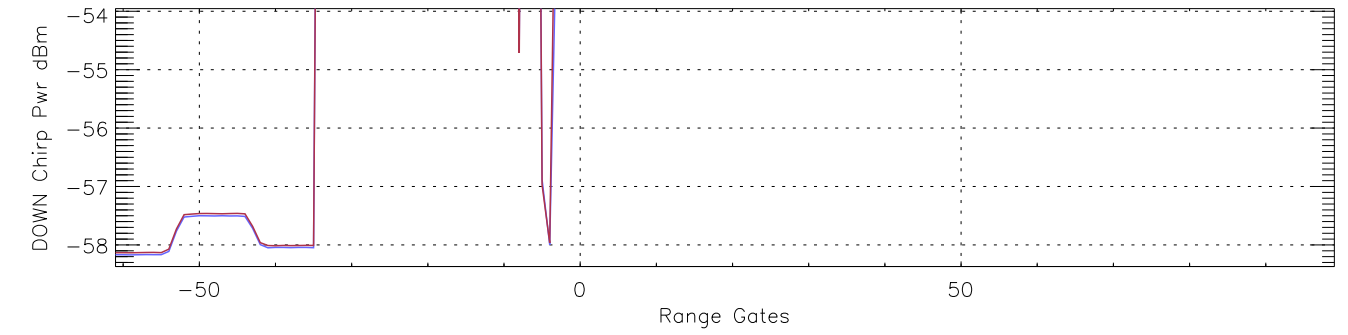
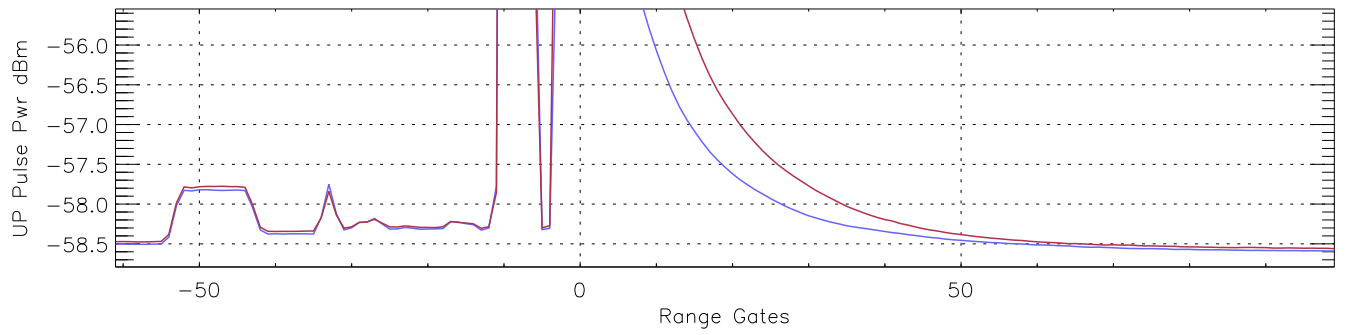
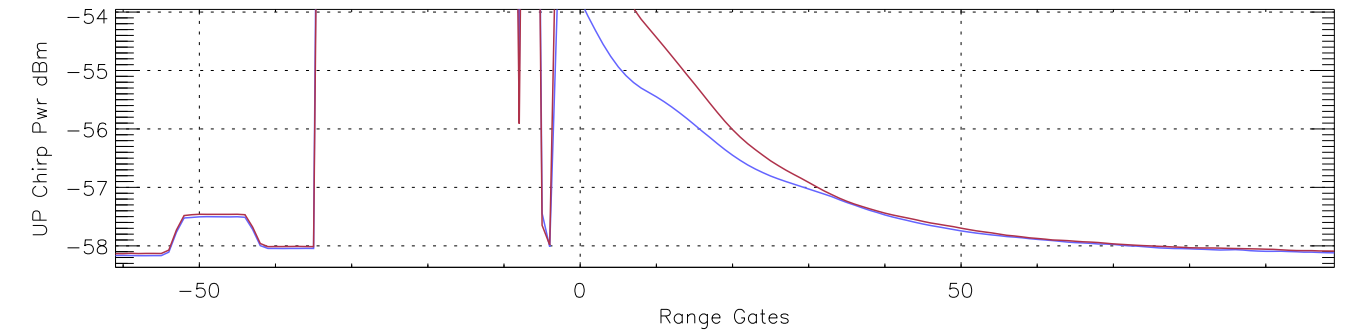
KPR SPP "Best" PPMAG noise (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RM_0	-93.18	-68.28	-73.70	-73.96	-76.47
UP_P_RG322_0	-91.36	-68.81	-74.06	-74.32	-76.93
DOWN_C_WL_0	-88.49	-68.32	-73.54	-73.83	-76.35
DOWN_P_RG276_0	-96.53	-68.82	-73.93	-74.21	-76.72

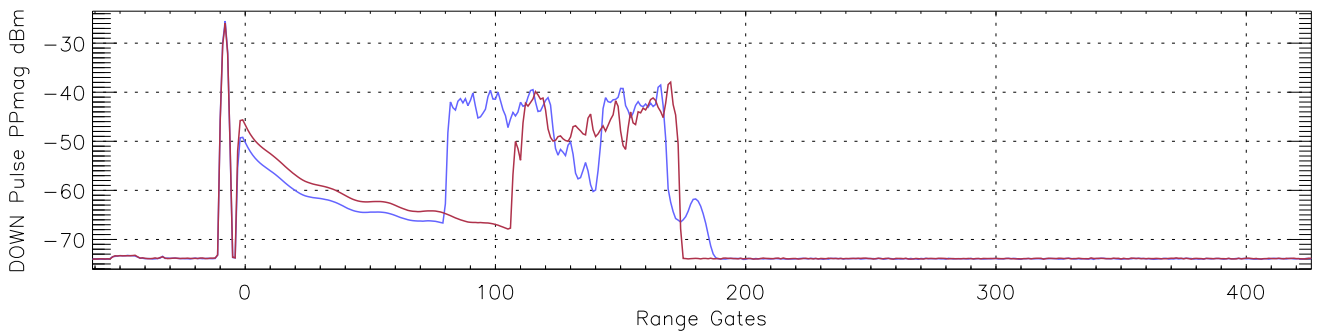
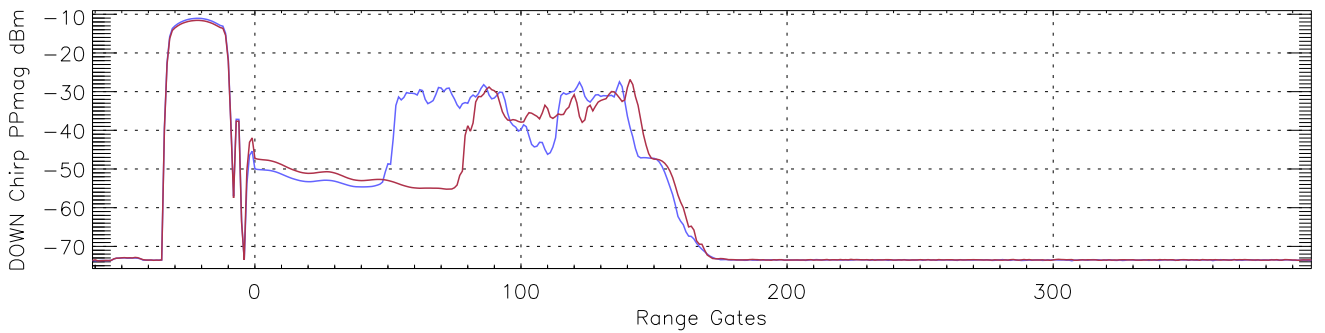
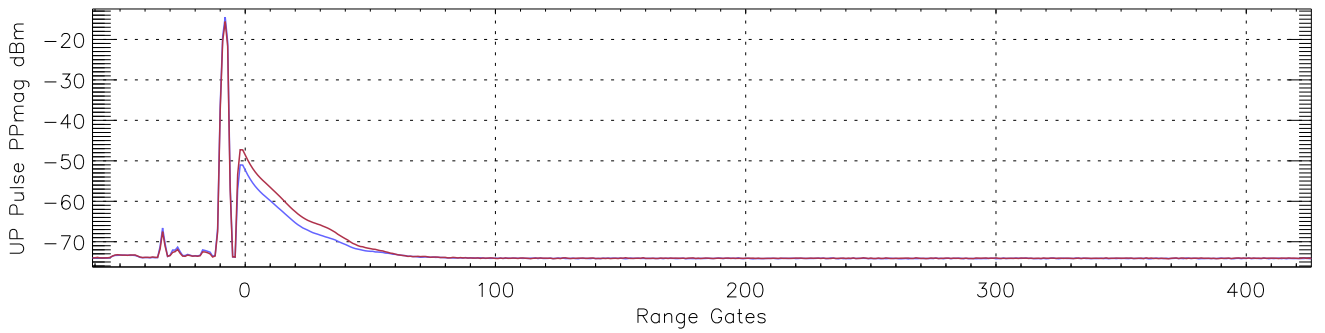
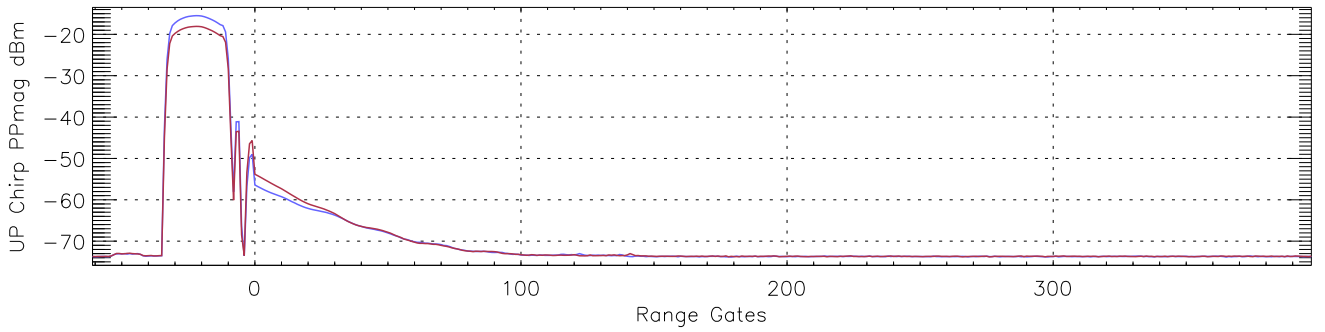




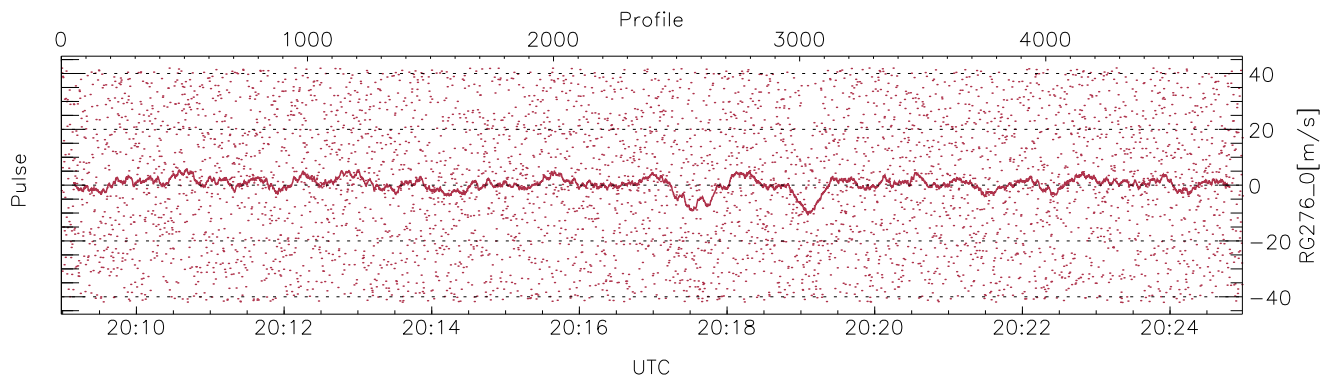
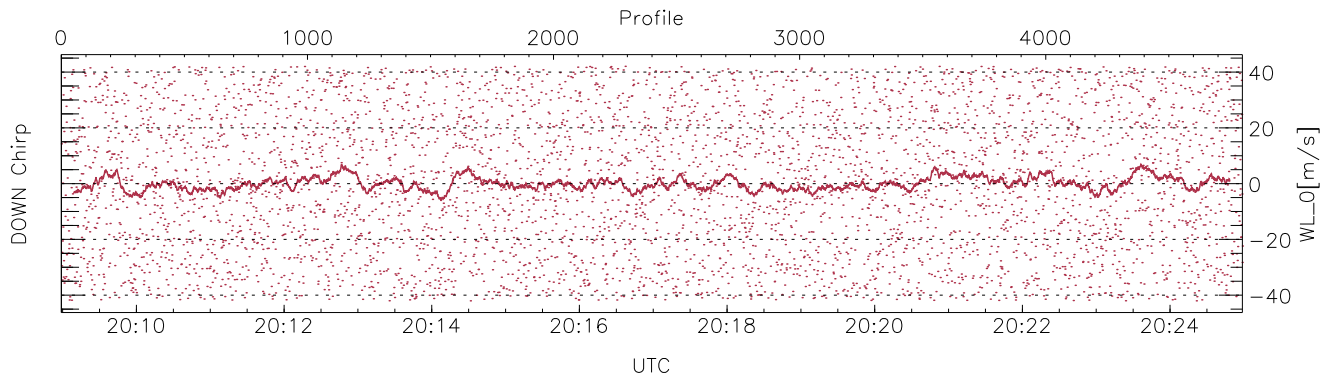
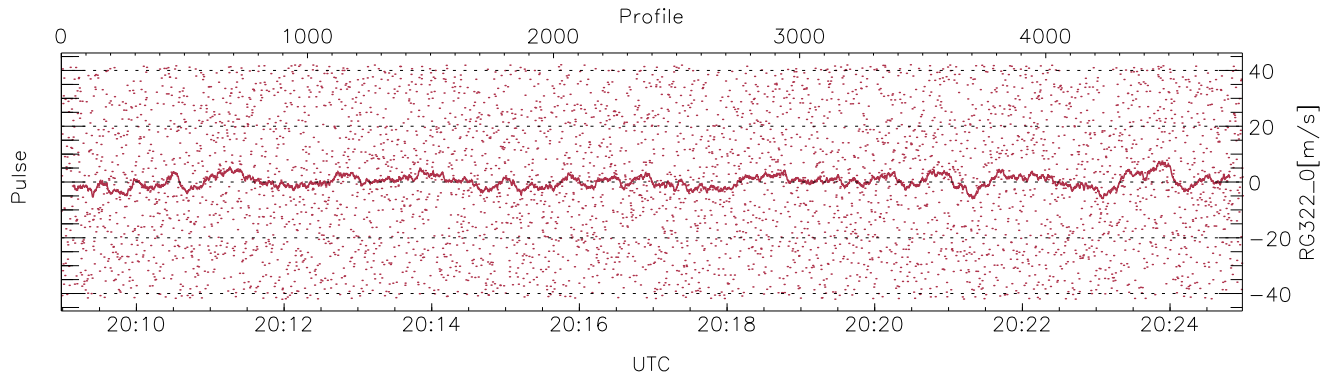
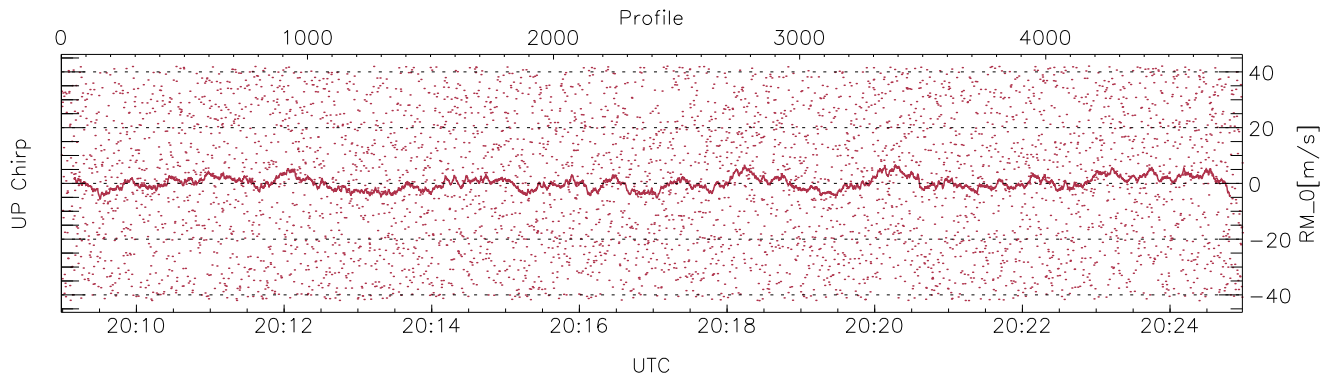
KPR SPP Averaged Received power for all recorded gates  
blue: 200859-201658, 2401 profiles averaged  
red: 201658-202459, 2400 profiles averaged



KPR SPP Averaged Power for neg. gates & up to 100 gates  
blue: 200859-201658, 2401 profiles averaged  
red: 201658-202459, 2400 profiles averaged

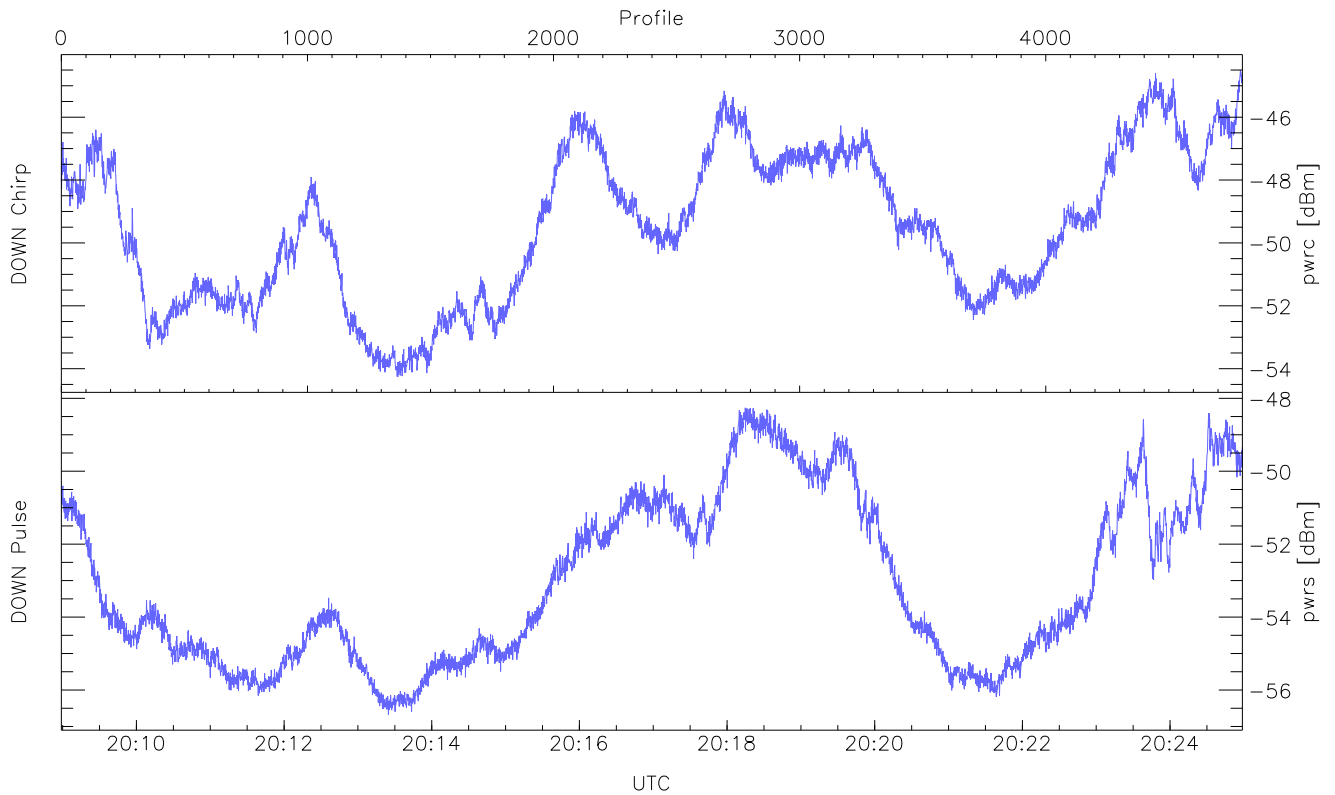
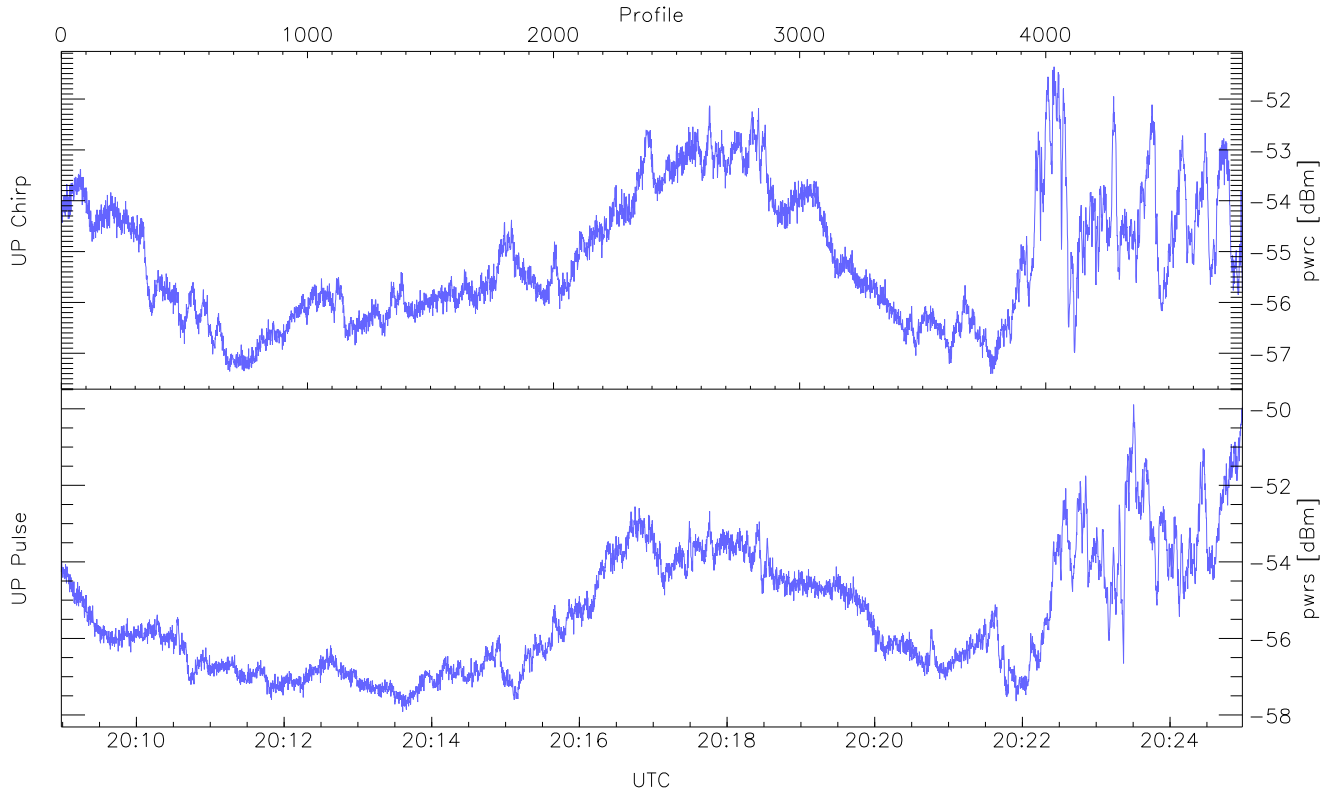


KPR SPP Averaged PP magnitude for all recorded gates  
blue: 200859-201658, 2401 profiles averaged  
red: 201658-202459, 2400 profiles averaged



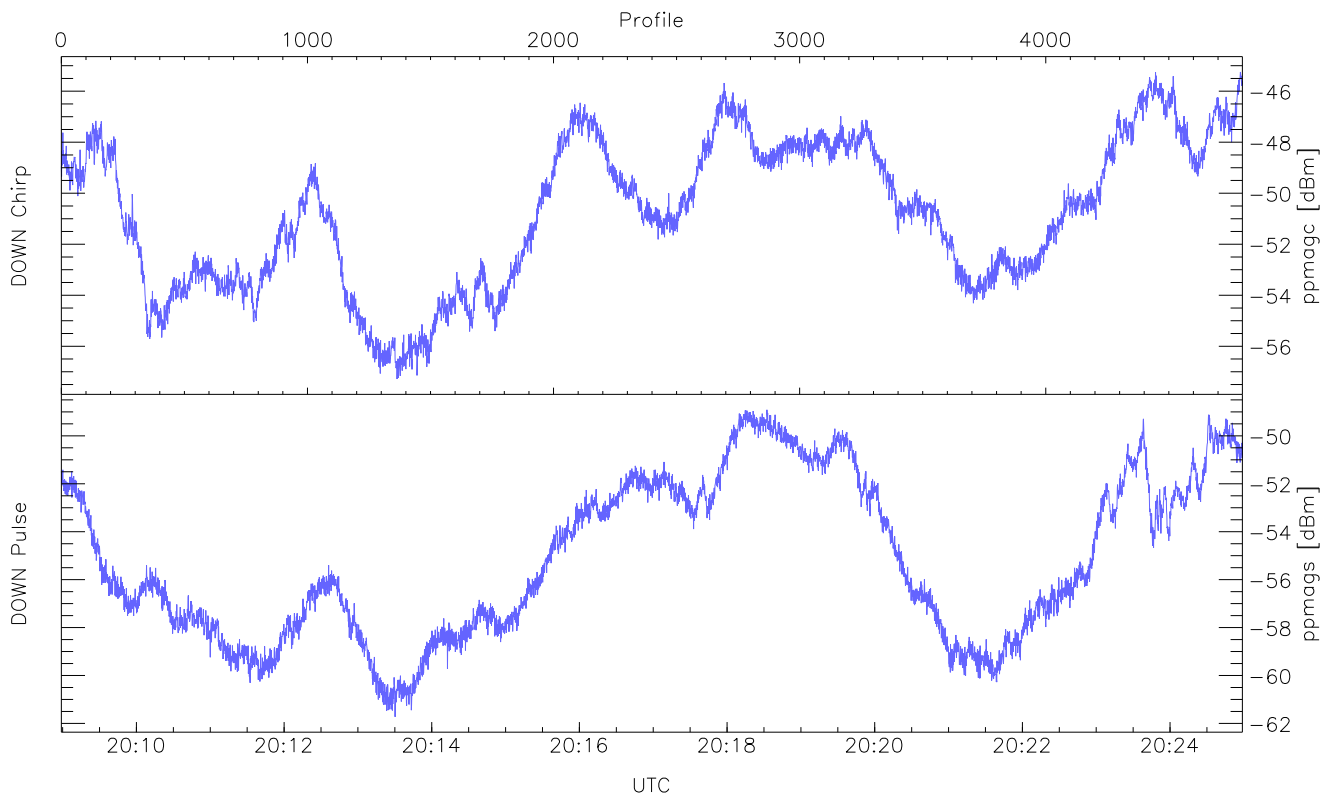
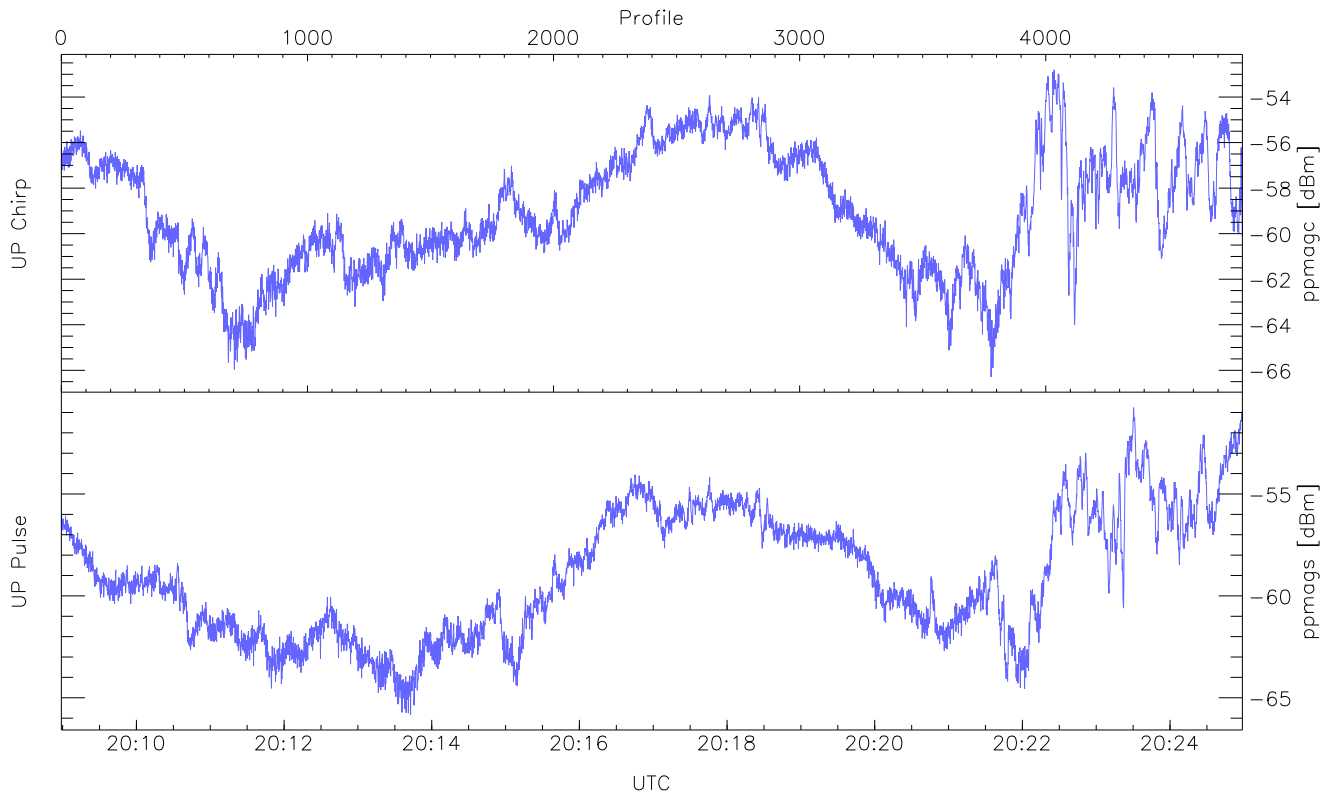
KPR SPP "Best" PPVEL noise (m/s):

	Min	Max	Mean	Median	StDev
UP_C_RM_0	-42.06	42.06	0.03	0.82	24.39
UP_P_RG322_0	-42.04	42.05	0.14	0.18	23.89
DOWN_C_WL_0	-42.03	42.05	-0.09	-0.55	24.55
DOWN_P_RG276_0	-42.03	42.00	0.23	0.73	23.99



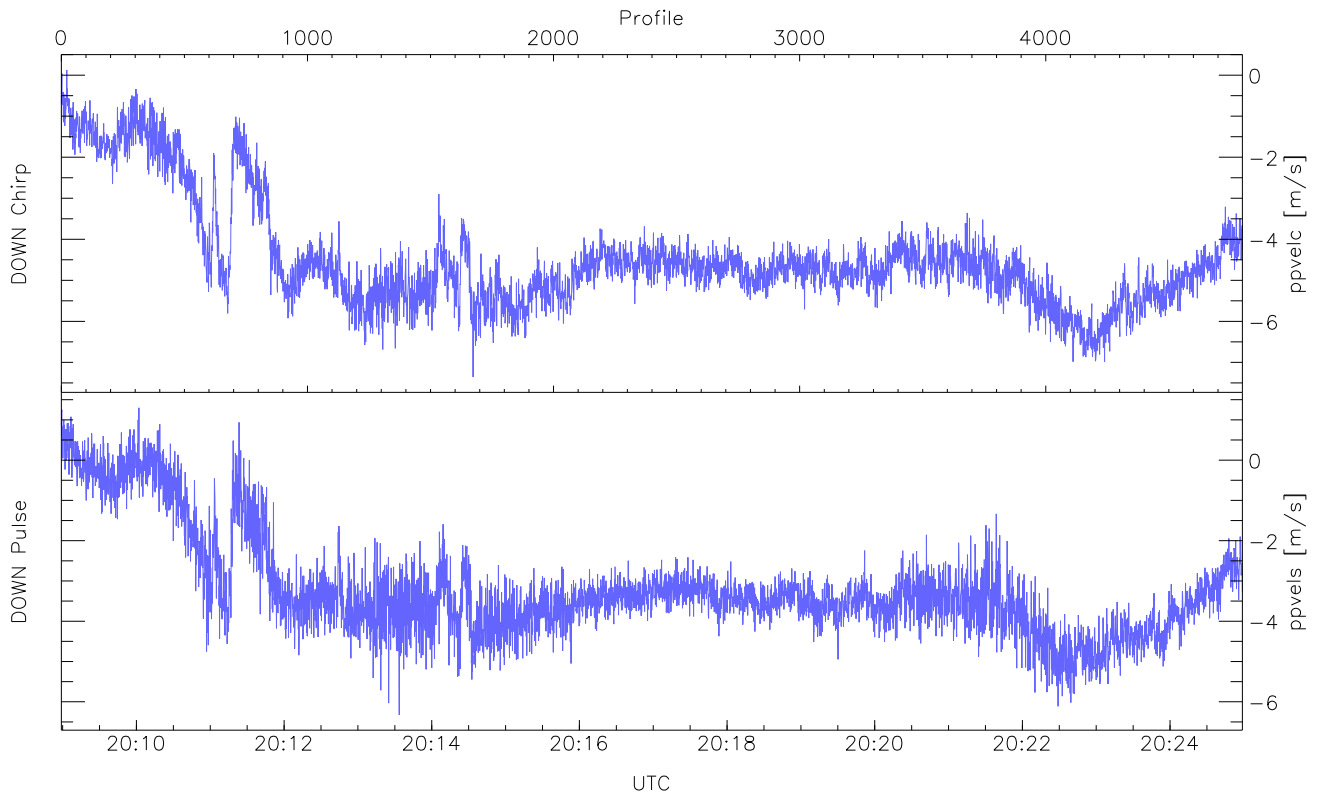
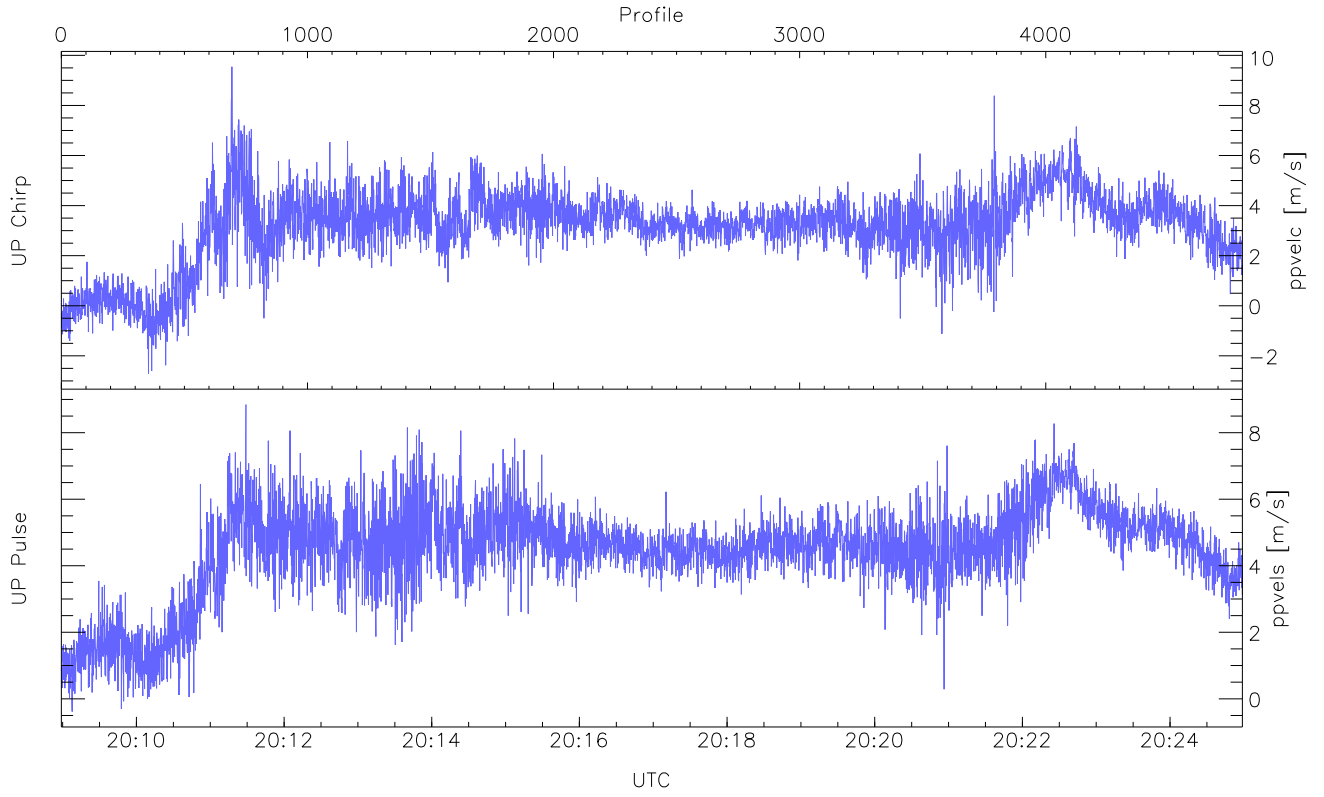
KPR SPP Received Power for Chirp Range gate 10 (686.2 m)  
 KPR SPP Received Power for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-57.40	-51.37	-54.91
UP Pulse(dBm)	-57.91	-49.89	-55.08
DOWN Chirp(dBm)	-54.27	-44.50	-48.84
DOWN Pulse(dBm)	-56.68	-48.26	-52.41



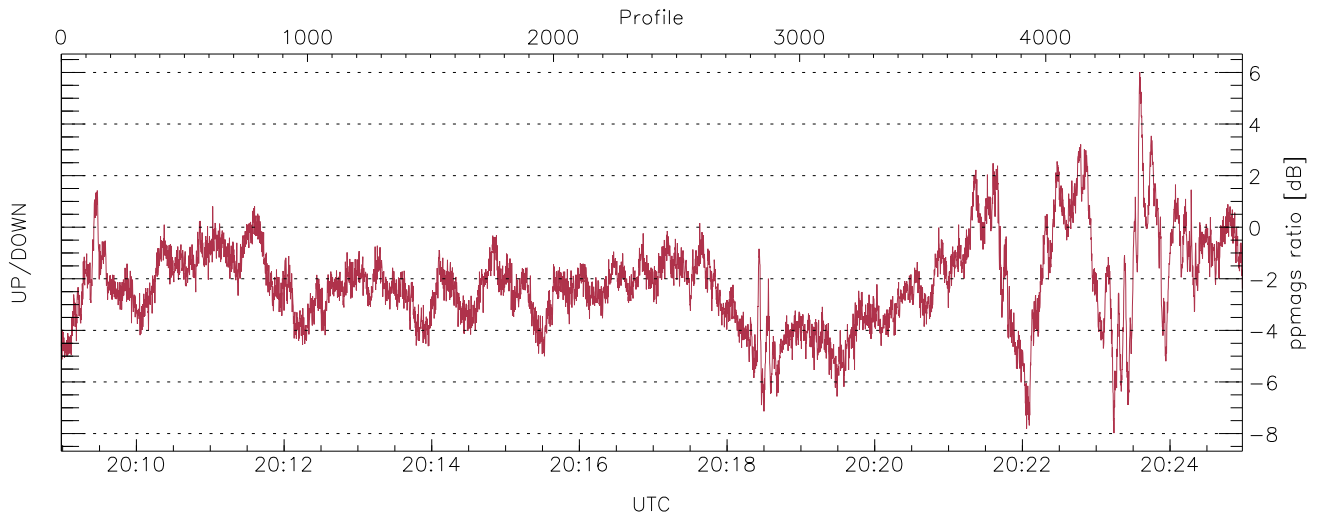
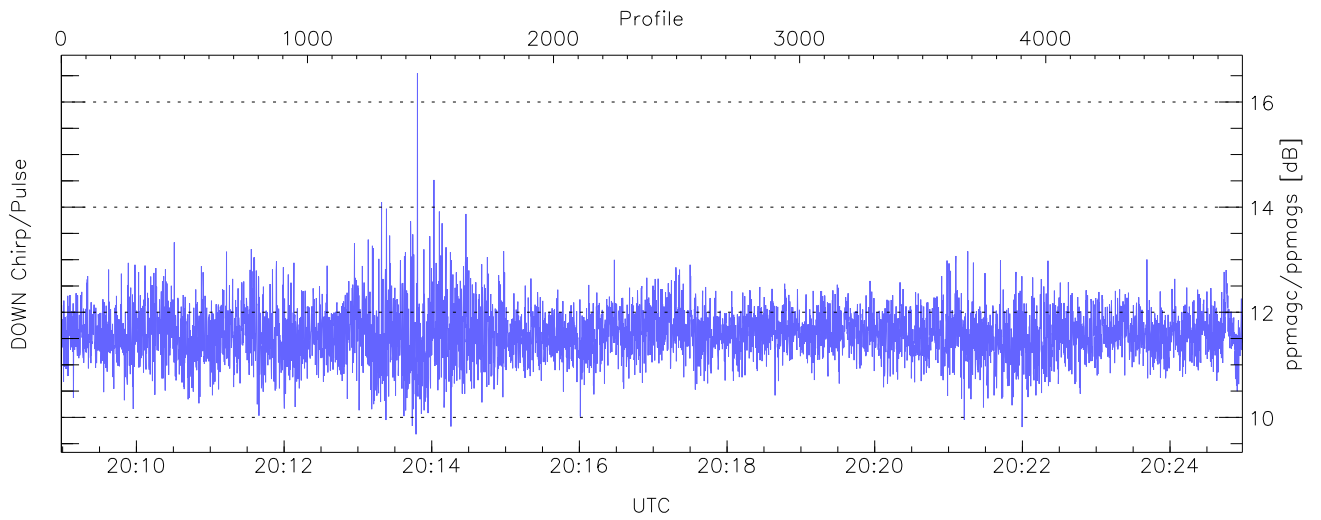
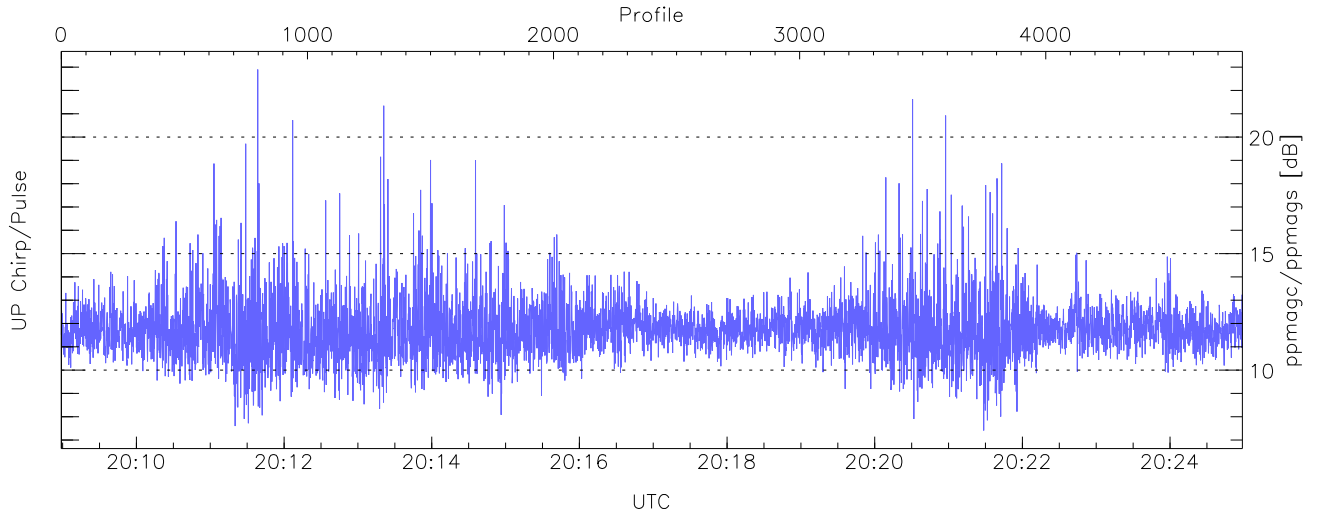
KPR SPP PPMAG for Chirp Range gate 10 (686.2 m)  
 KPR SPP PPMAG for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-66.29	-52.80	-58.19
UP Pulse(dBm)	-65.83	-50.76	-57.90
DOWN Chirp(dBm)	-57.28	-45.25	-49.91
DOWN Pulse(dBm)	-61.72	-48.91	-53.92



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)	-2.72	9.54	3.15
UP Pulse(m/s)	-0.38	8.85	4.45
DOWN Chirp(m/s)	-7.36	0.13	-4.47
DOWN Pulse(m/s)	-6.32	1.30	-3.19



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

	Min	Max	Mean
UP Chirp/Pulse(dBm)	7.41	22.90	11.98
DOWN Chirp/Pulse(dBm)	9.68	16.55	11.61
UP/DOWN Ratio at Range 135.8 m			
	Min	Max	Mean
UP/DOWN(dB)	-7.98	6.01	-1.83