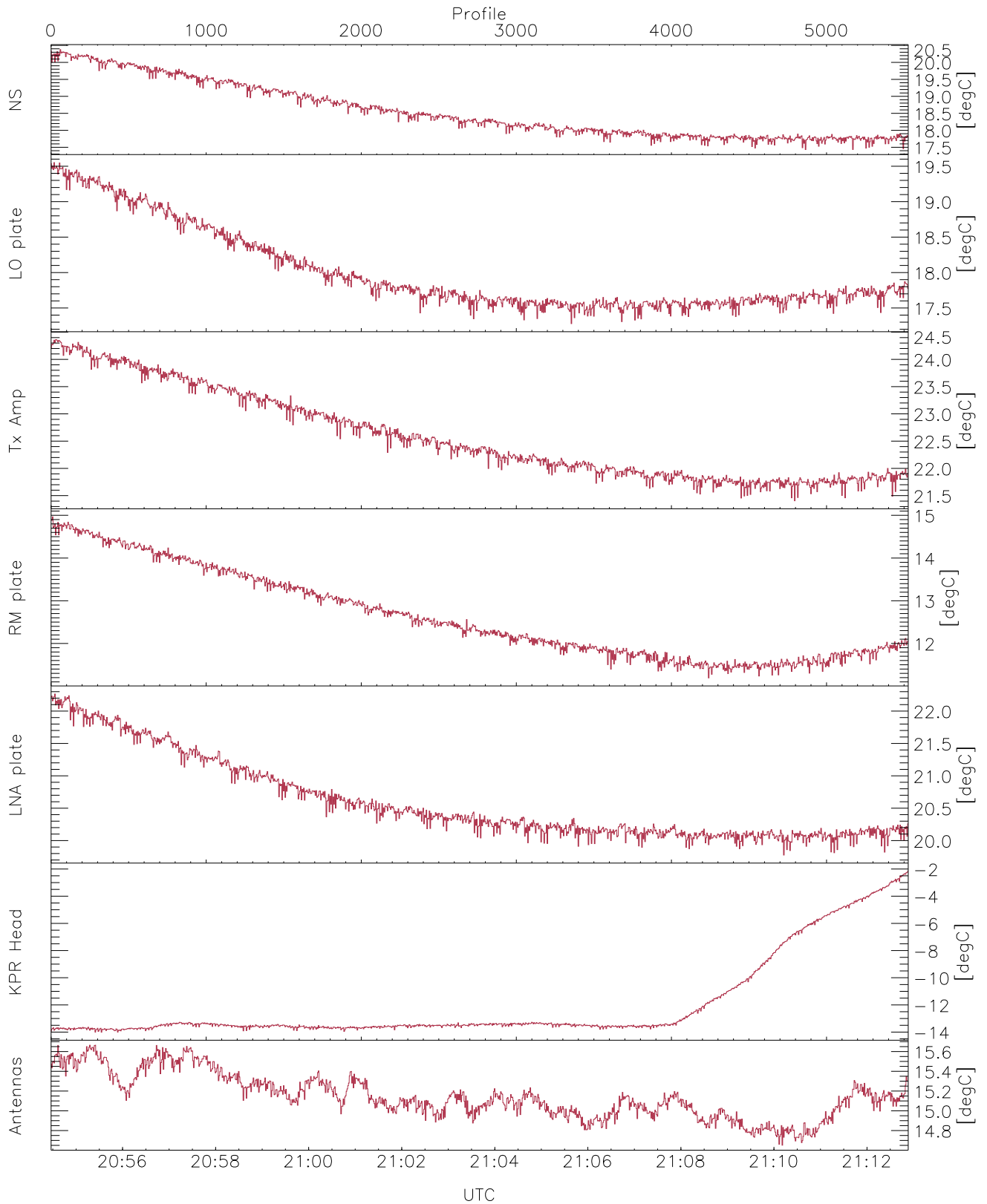


KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF
 UTC: 20:54:28-21:12:53, TimeCor: 0.00s, Dur: 1105.40s
 TimeInt(min,max,mn,std): 184.9,215.1,200.0,1.2 ms; PPS: 5.0
 NumRec(r/t): 5528/5528, 0-5527/20:54:28-21:12:53
 AcqTime(req,actual): 200.0,200.0 ms, Data Rate: 187.6 KB/s
 Pulse: 247 ns, Chirp: 2.47 us, 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

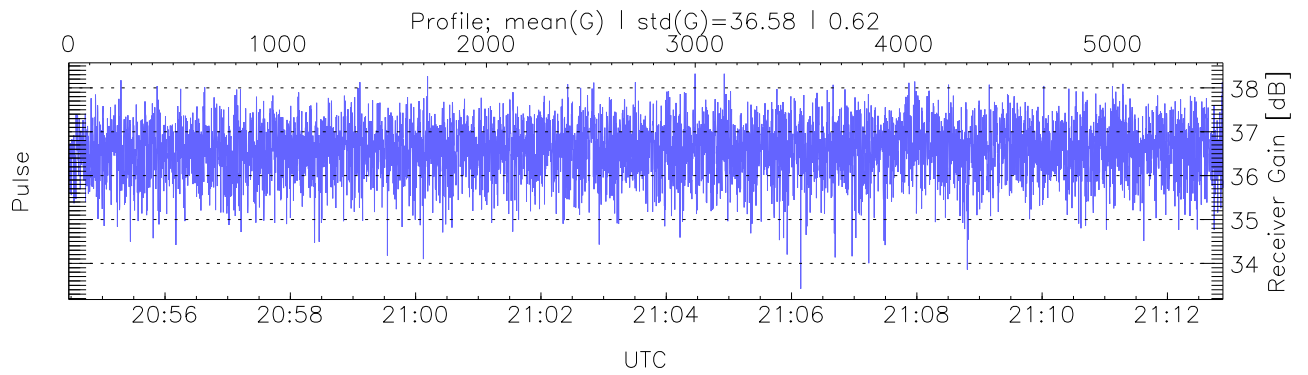
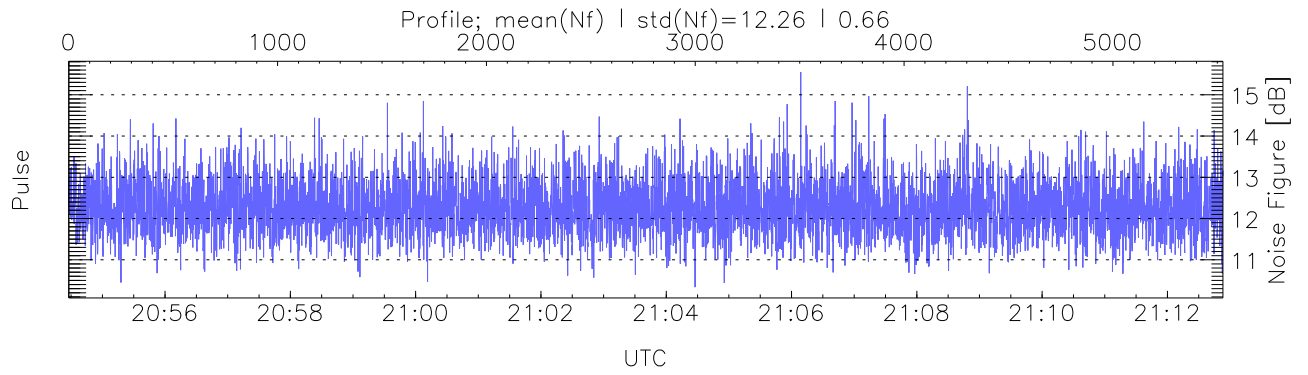
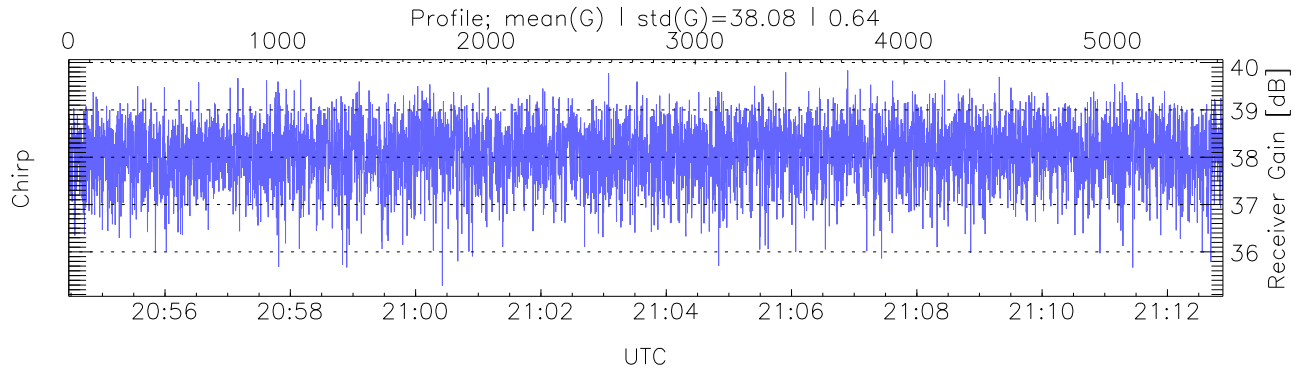
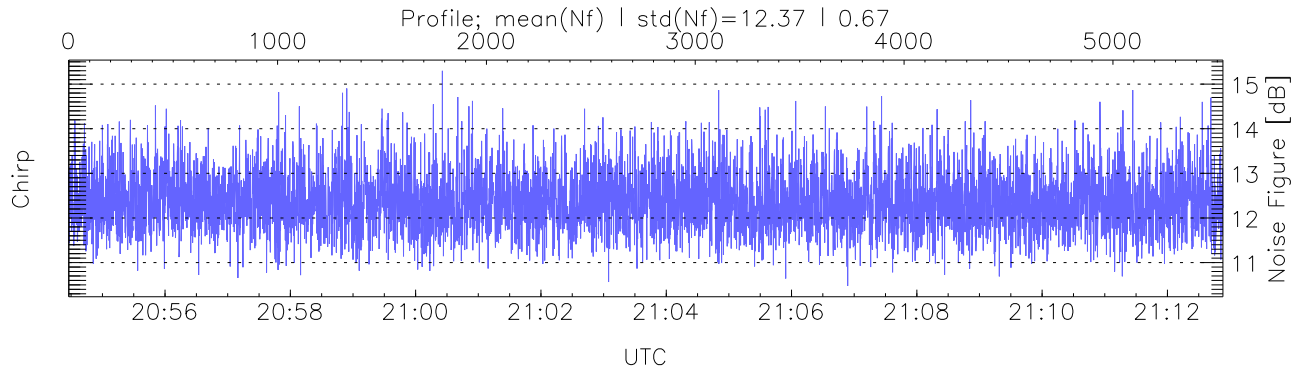


KPR SPP Temperatures, Power Supplies, PLO lock:

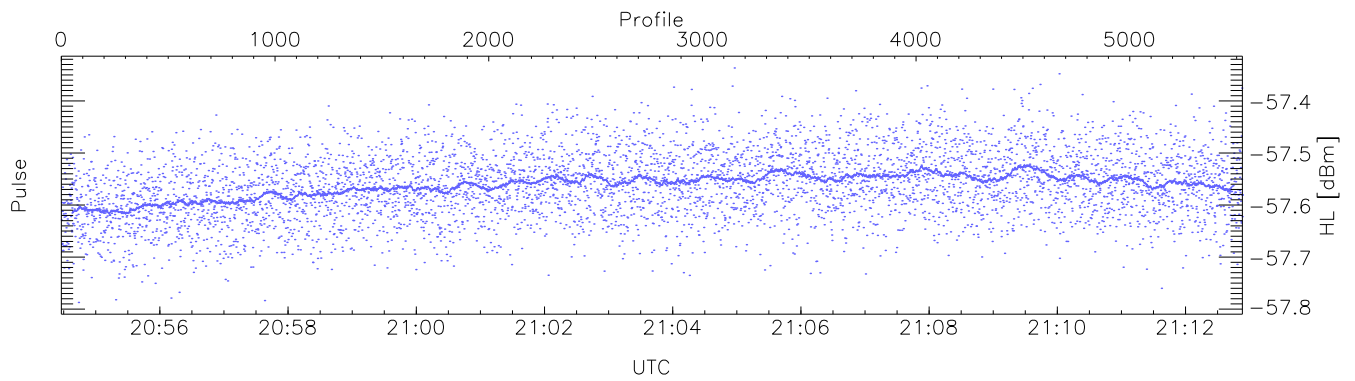
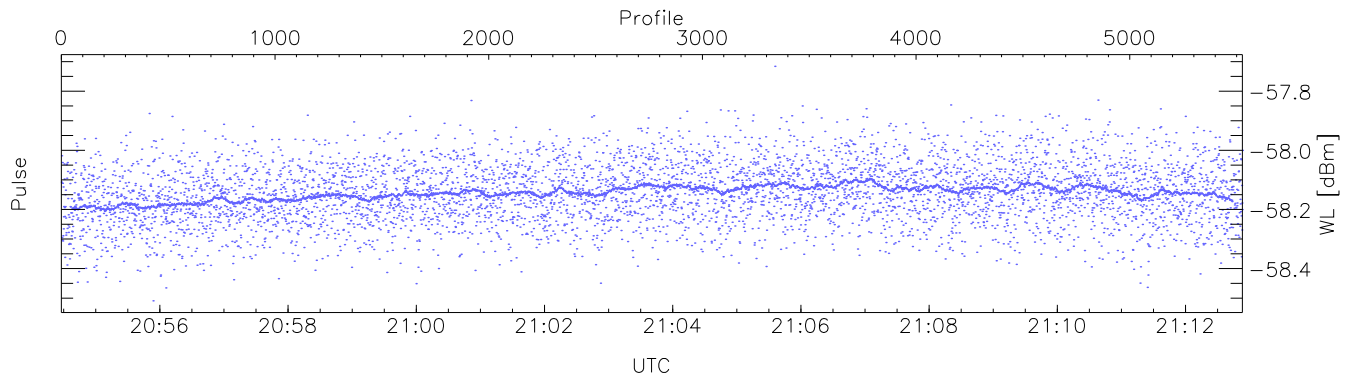
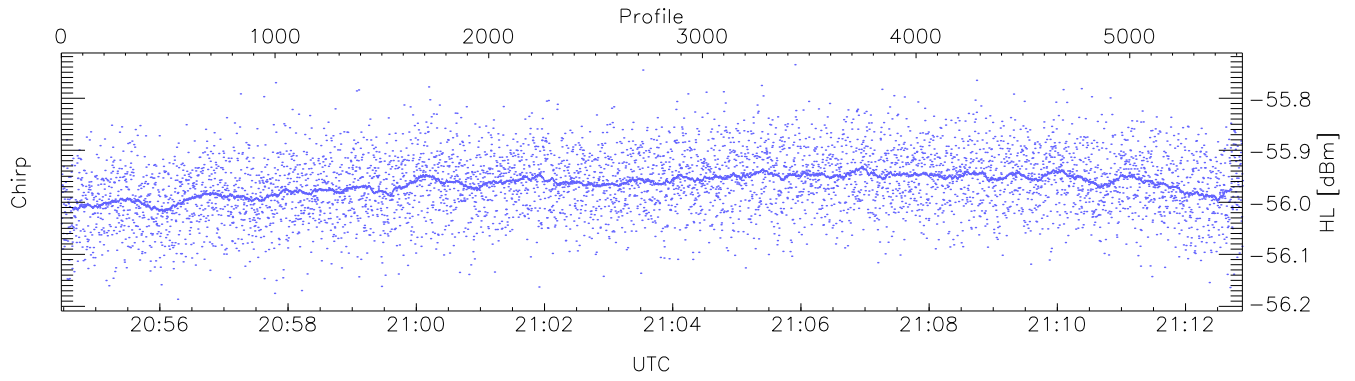
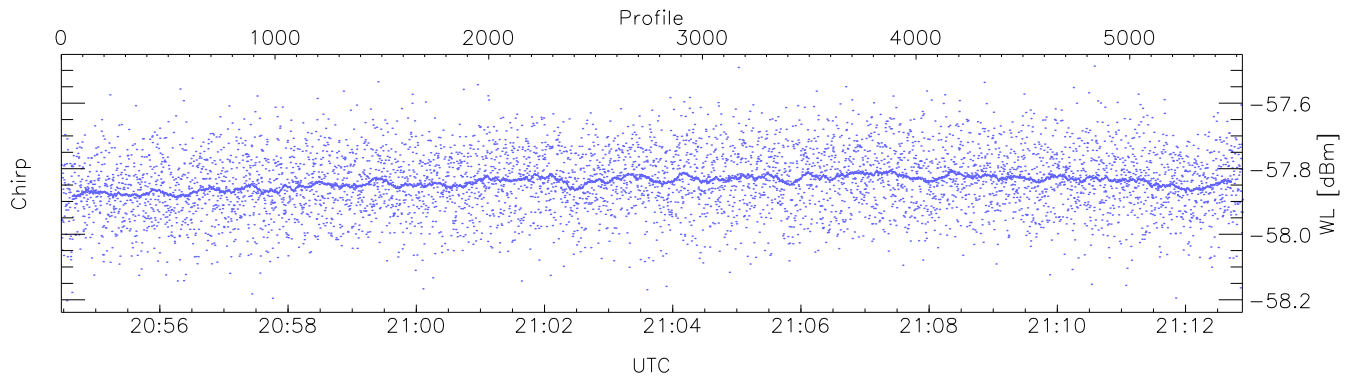
temperature: NS, LO, Tx, RM, LNA, Head, Ant
 mintempC: 17.4, 17.3, 21.4, 11.2, 19.8, -14.0, 14.7
 maxtempC: 20.4, 19.6, 24.4, 15.0, 22.3, -2.2, 15.7
 meantempC: 18.5, 18.0, 22.6, 12.6, 20.6, -11.9, 15.1

PwrSply: 28, 12, 8, 5 VDC
 minVDC: 25.28, 11.69, 7.87, 5.21
 maxVDC: 27.80, 11.74, 7.90, 5.23
 meanVDC: 26.81, 11.71, 7.88, 5.22

PLO(3.84,15.84 GHz) unlocked: None

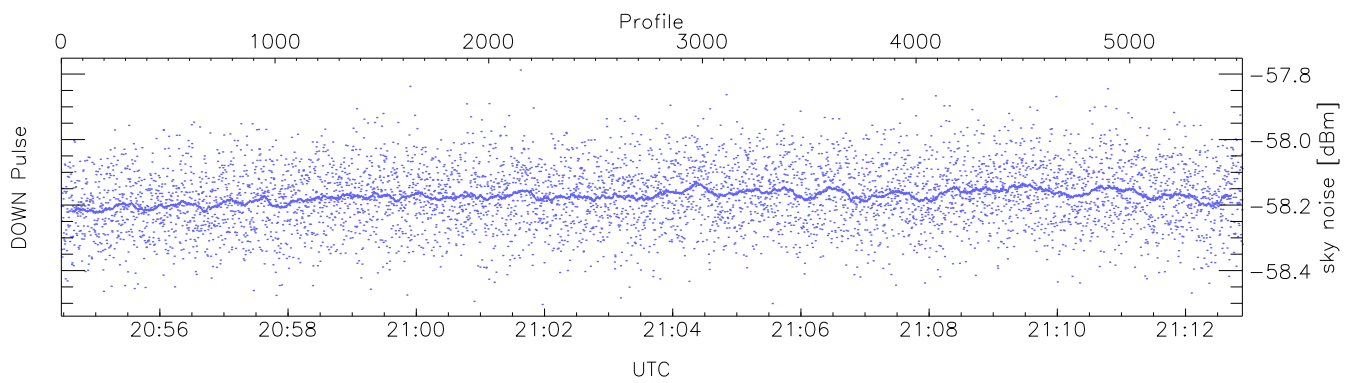
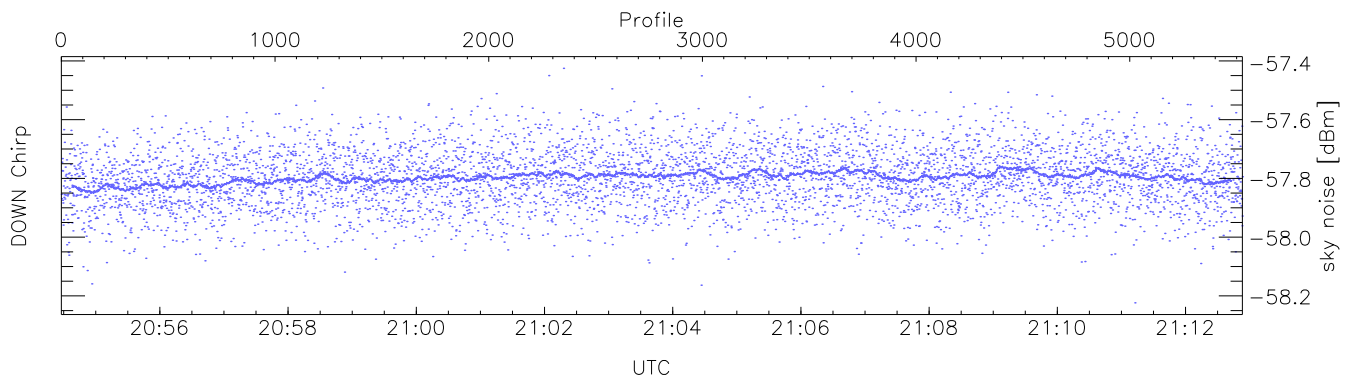
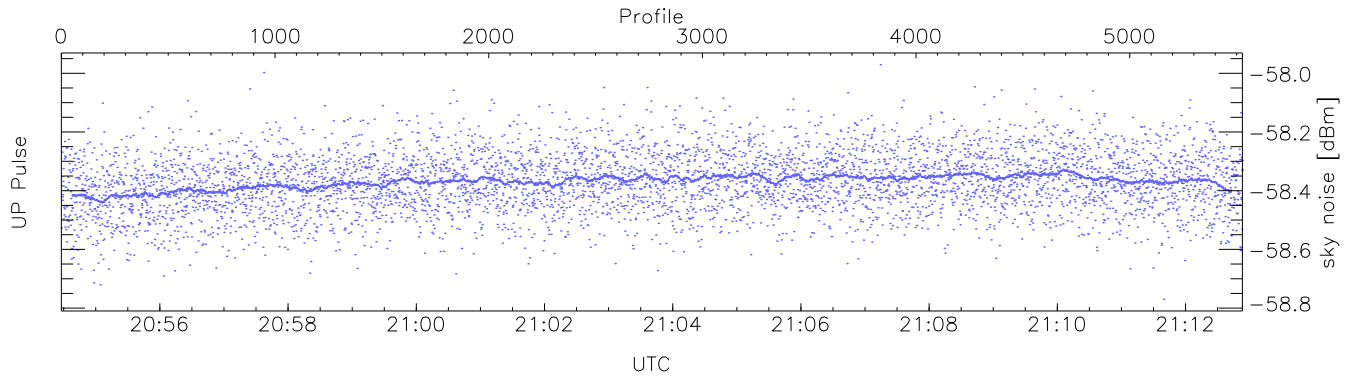
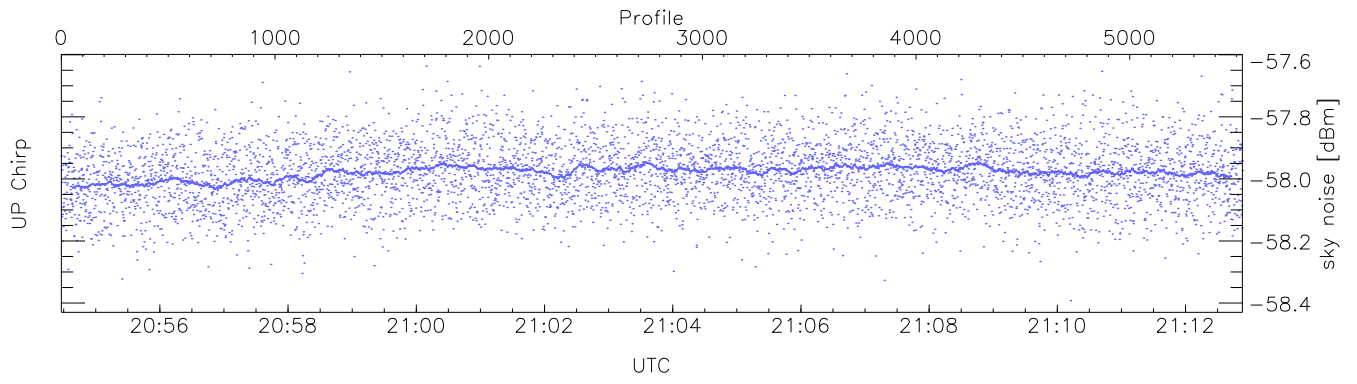


KPR SPP Receiver Gain and Noise Figure



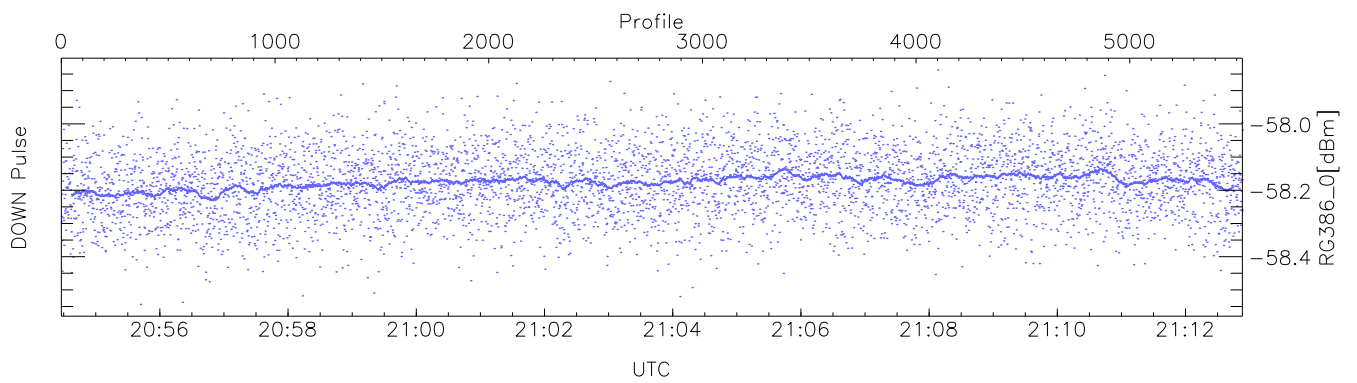
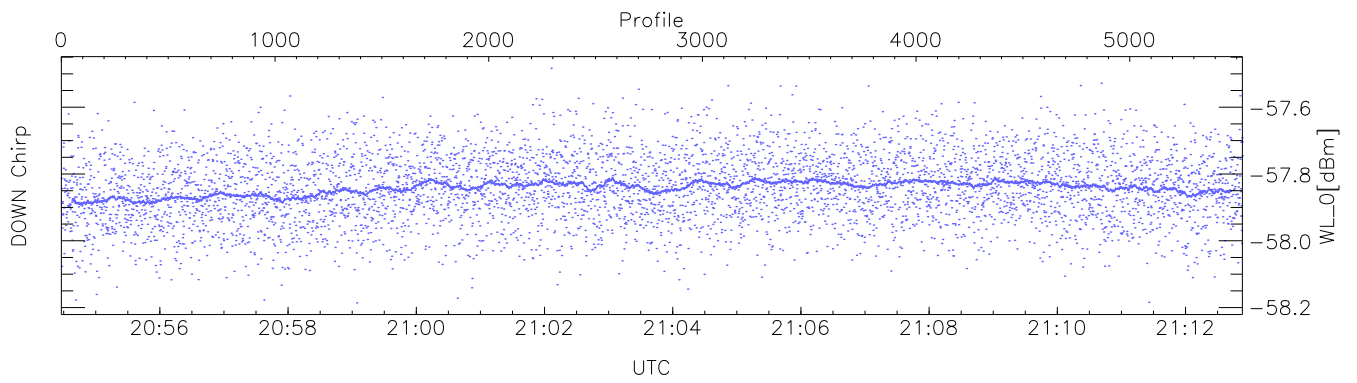
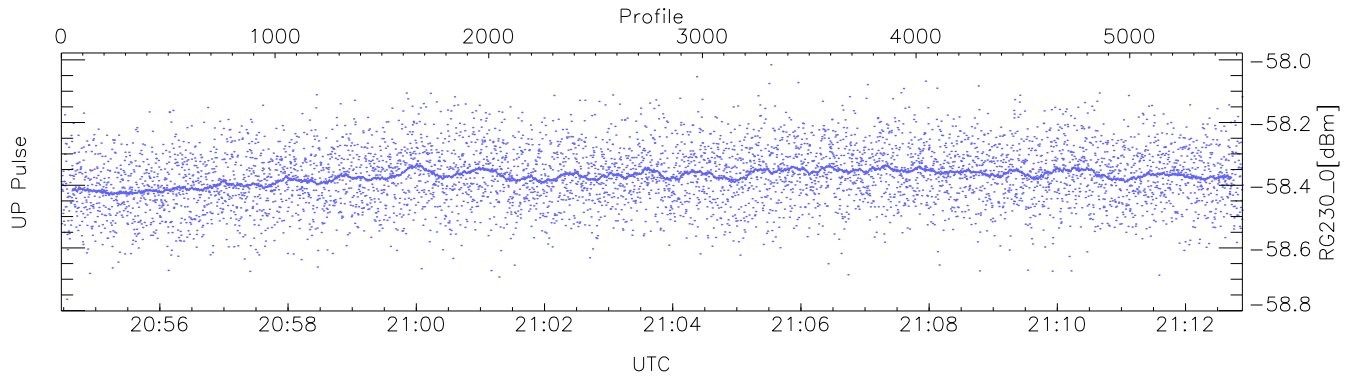
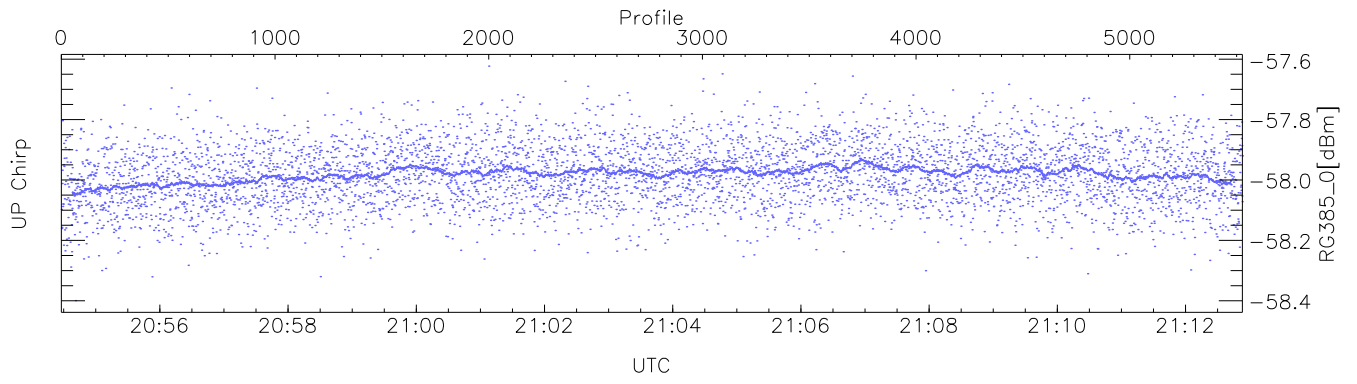
KPR SPP Receiver Noise Source Warm and Hot Measurements

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-58.20	-57.49	-57.84	-57.84	-74.22
Chirp(HL [dBm])	-56.19	-55.74	-55.97	-55.97	-74.34
Pulse(WL [dBm])	-58.51	-57.72	-58.14	-58.15	-74.53
Pulse(HL [dBm])	-57.79	-57.34	-57.56	-57.56	-75.91



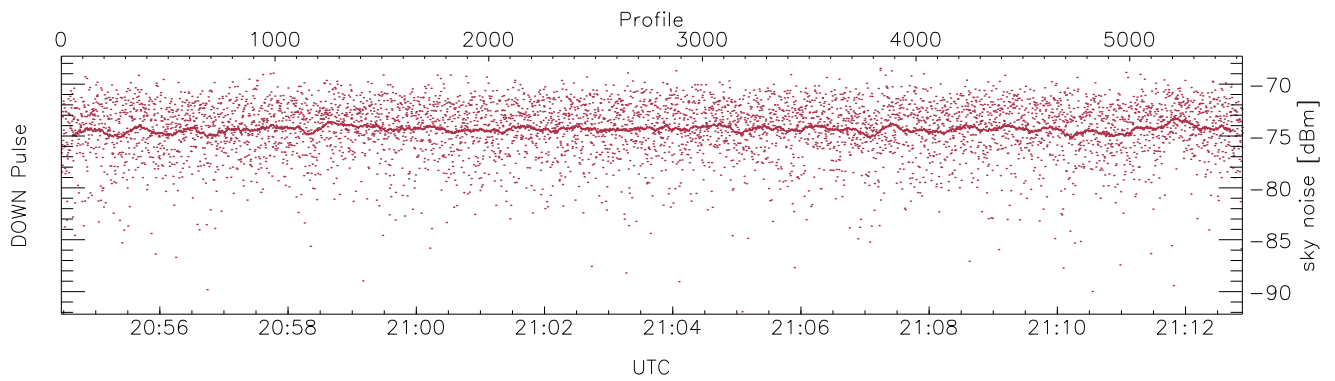
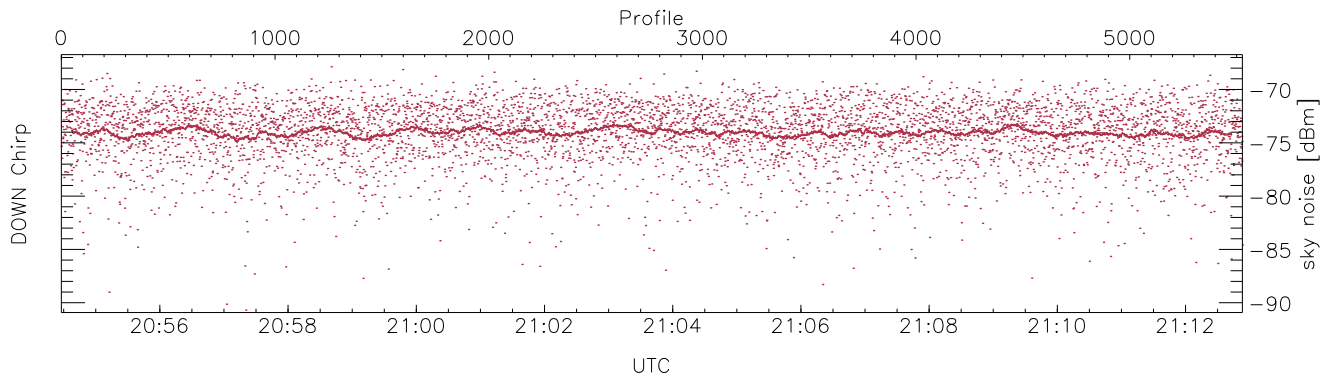
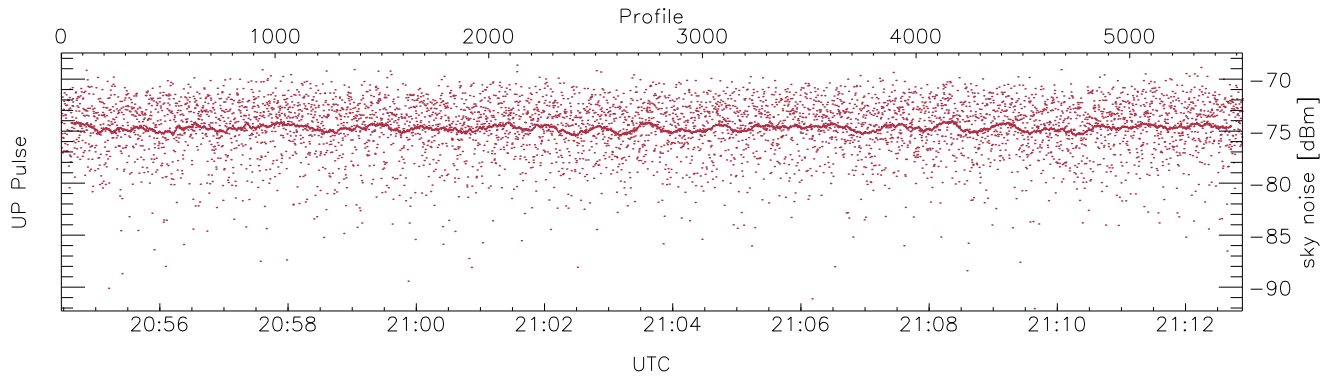
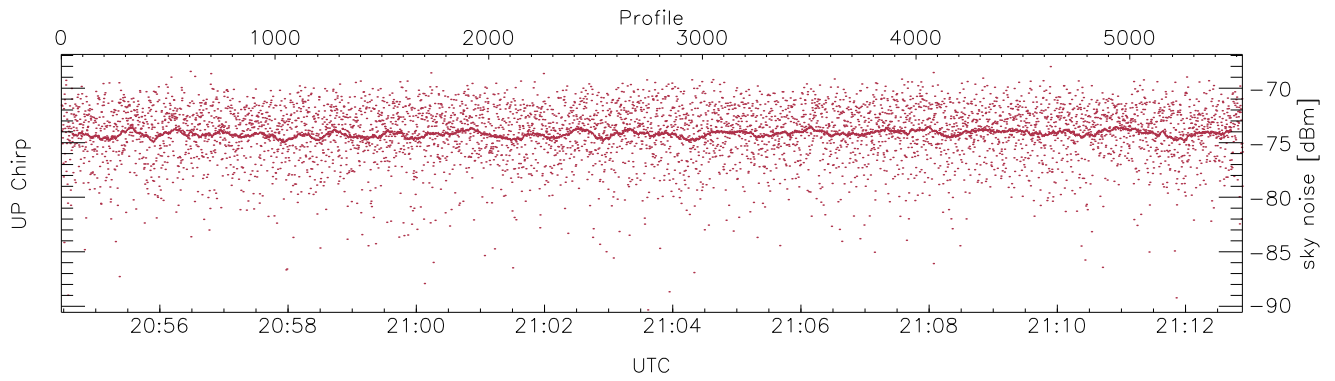
KPR SPP Last range gate power measurements: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-58.39	-57.64	-57.98	-57.98	-74.40
UP Pulse(dBm)	-58.77	-57.97	-58.37	-58.37	-74.74
DOWN Chirp(dBm)	-58.22	-57.43	-57.80	-57.80	-74.25
DOWN Pulse(dBm)	-58.50	-57.79	-58.17	-58.18	-74.64



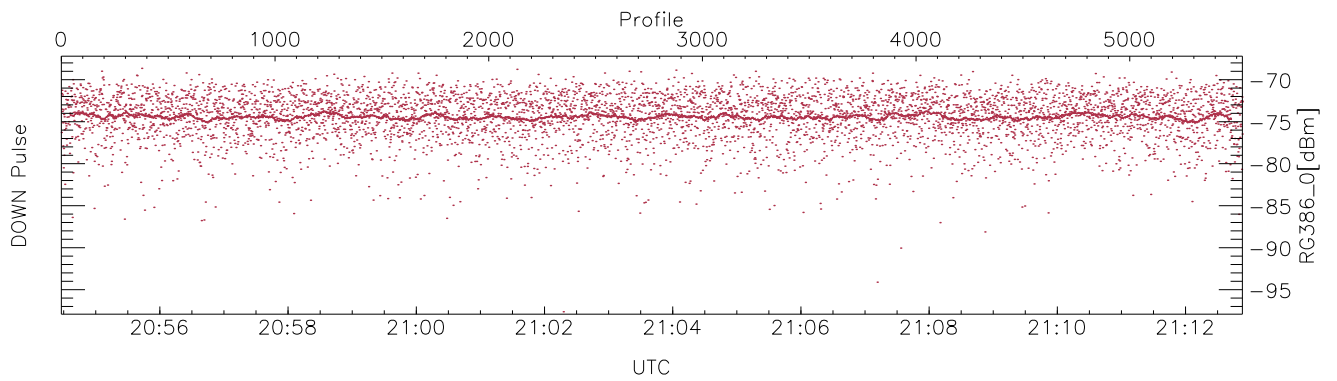
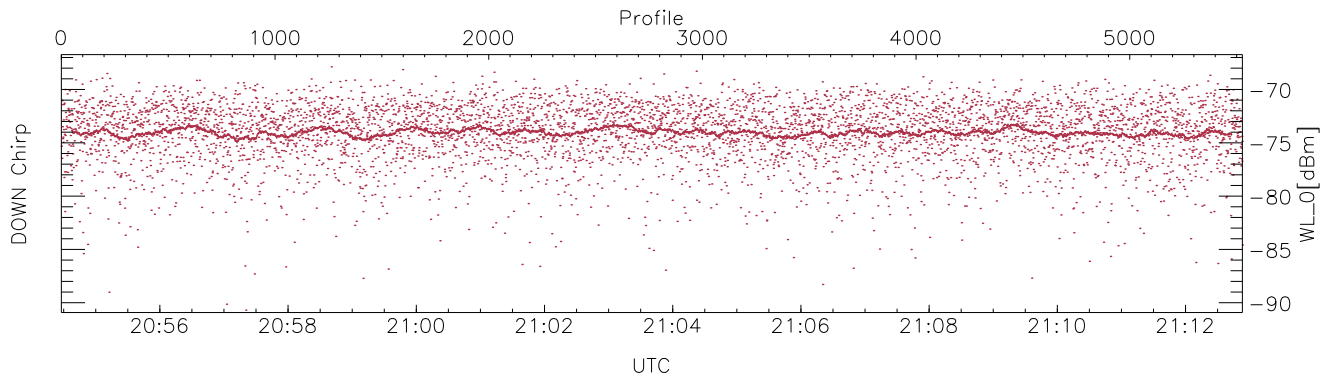
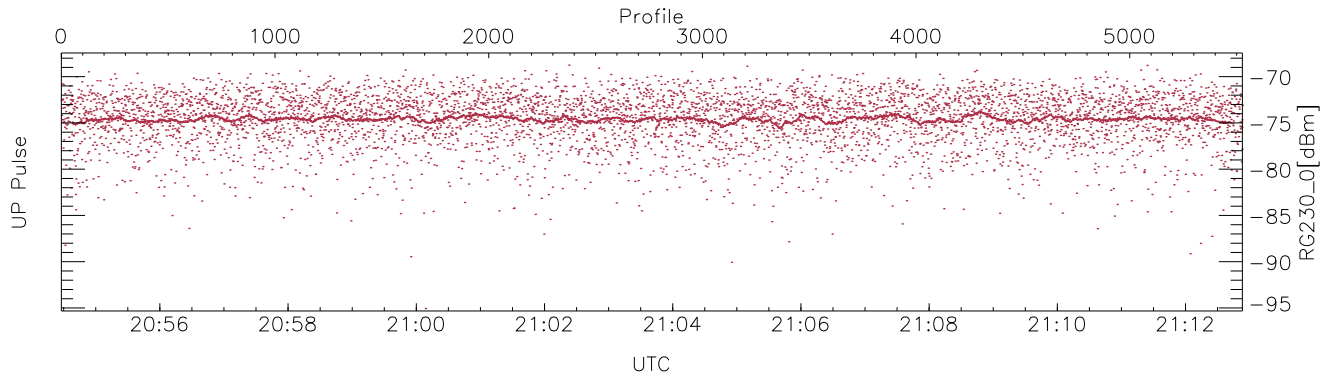
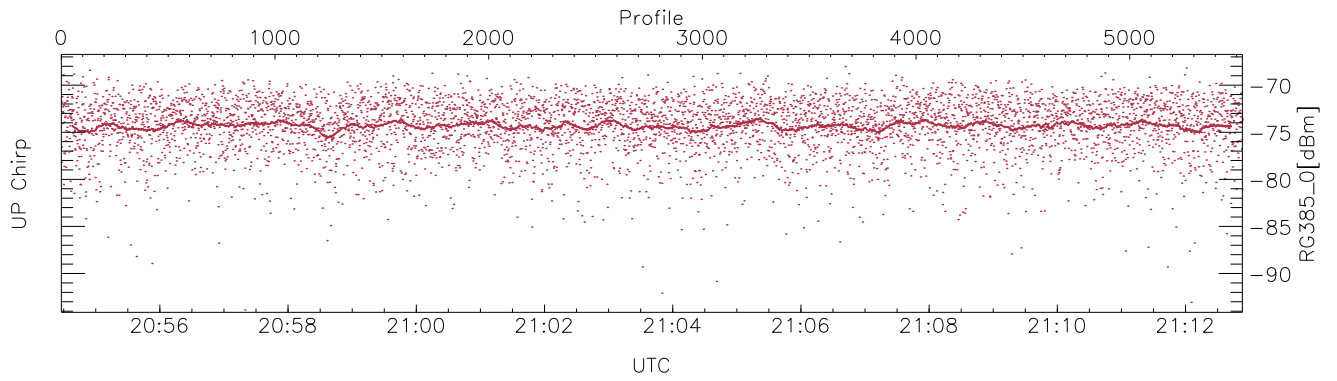
KPR SPP "Best" noise power measurements (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RG385_0	-58.40	-57.62	-57.98	-57.98	-74.39
UP_P_RG230_0	-58.76	-58.02	-58.37	-58.37	-74.87
DOWN_C_WL_0	-58.19	-57.48	-57.84	-57.84	-74.23
DOWN_P_RG386_0	-58.54	-57.84	-58.18	-58.18	-74.60



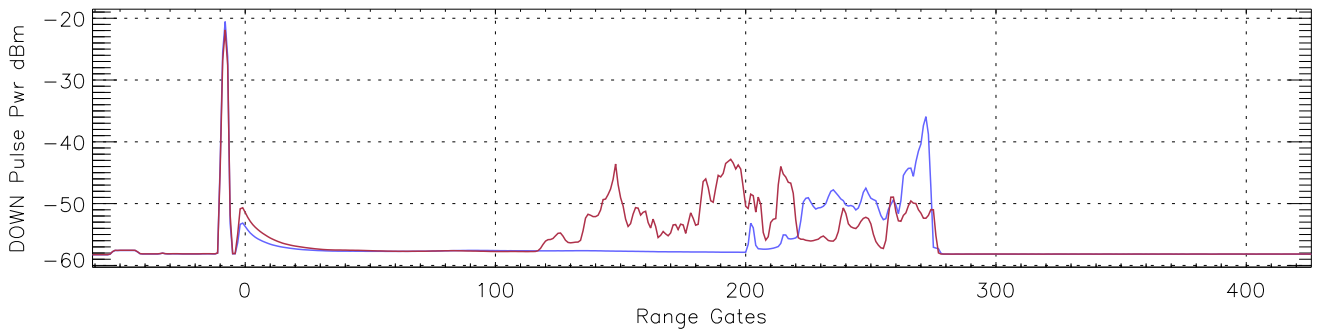
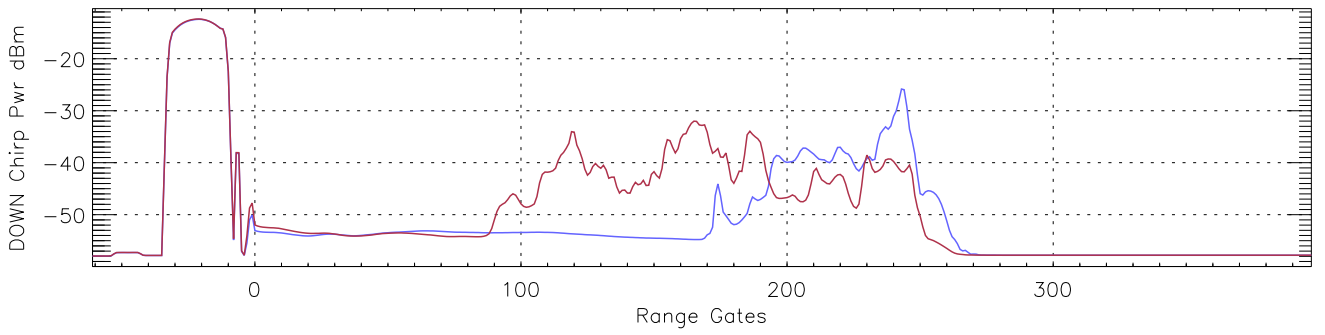
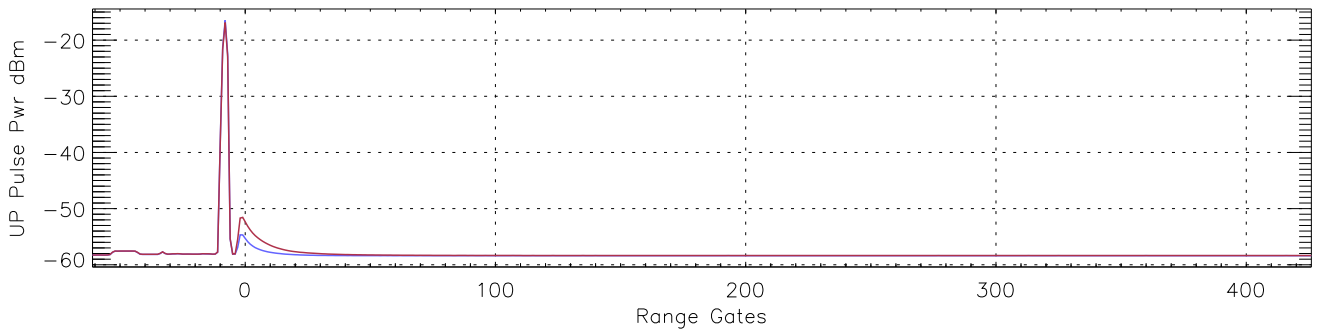
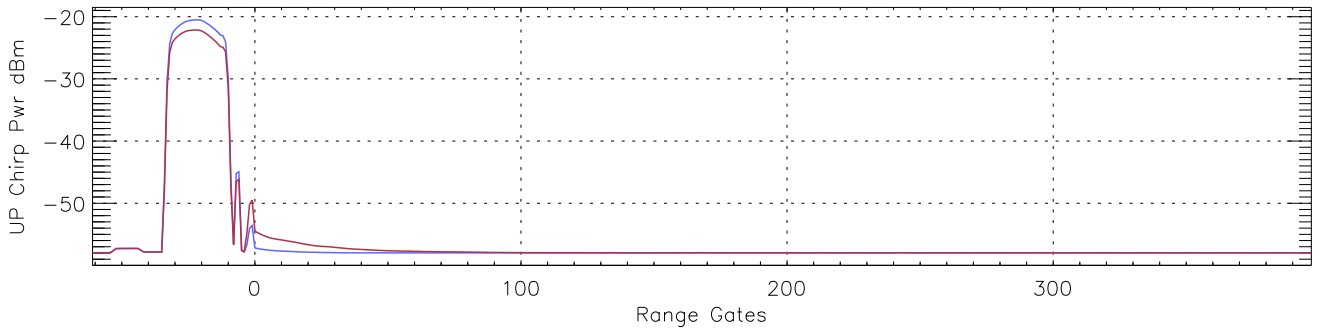
KPR SPP Last range gate PPMAG: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-90.33	-68.02	-73.49	-73.75	-76.34
UP Pulse(dBm)	-92.05	-68.66	-73.96	-74.22	-76.72
DOWN Chirp(dBm)	-90.69	-67.87	-73.33	-73.61	-76.17
DOWN Pulse(dBm)	-91.94	-68.48	-73.65	-73.88	-76.50

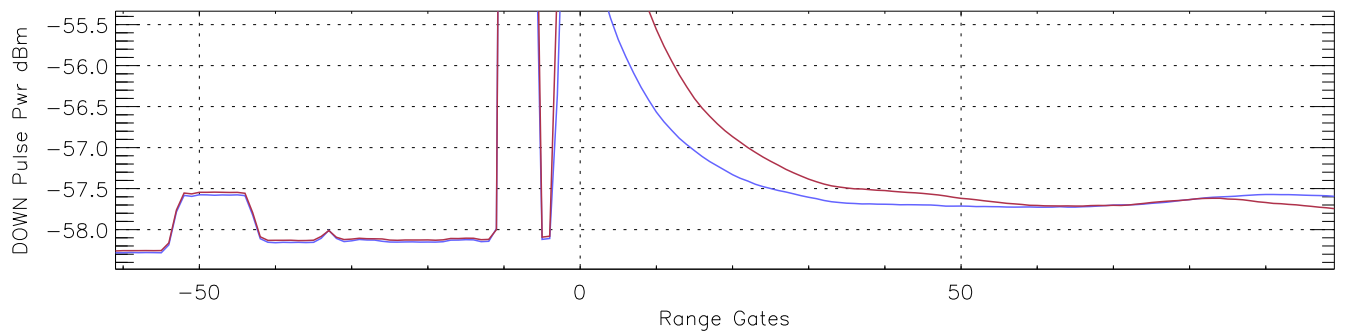
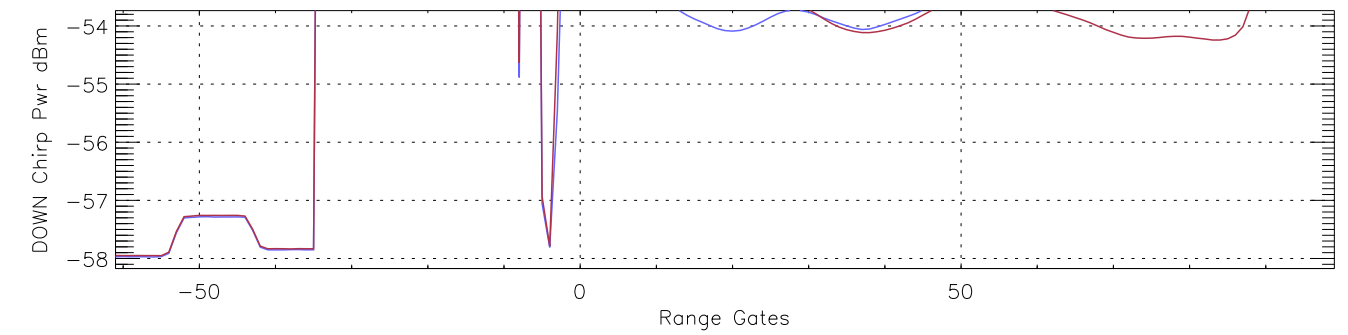
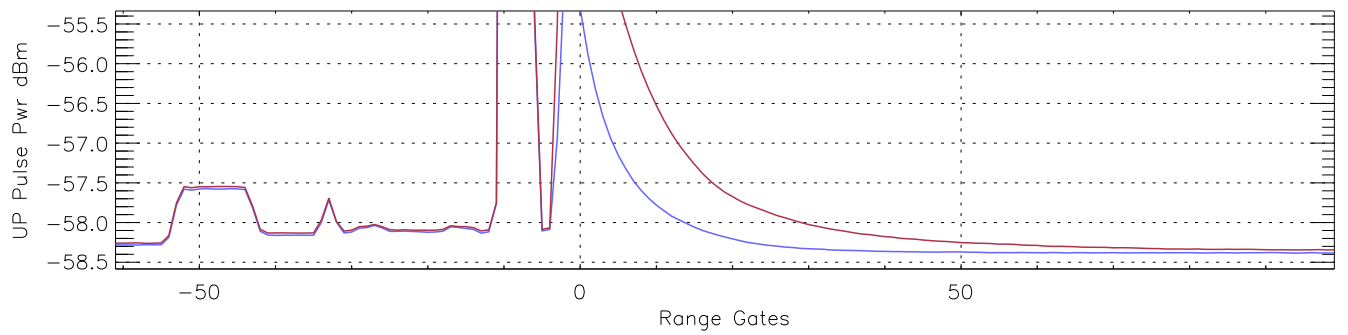
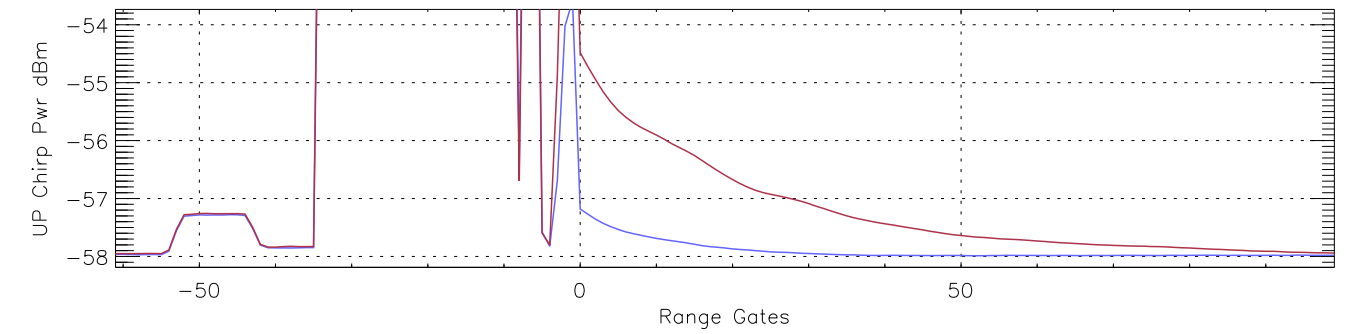


KPR SPP "Best" PPMAG noise (dBm):

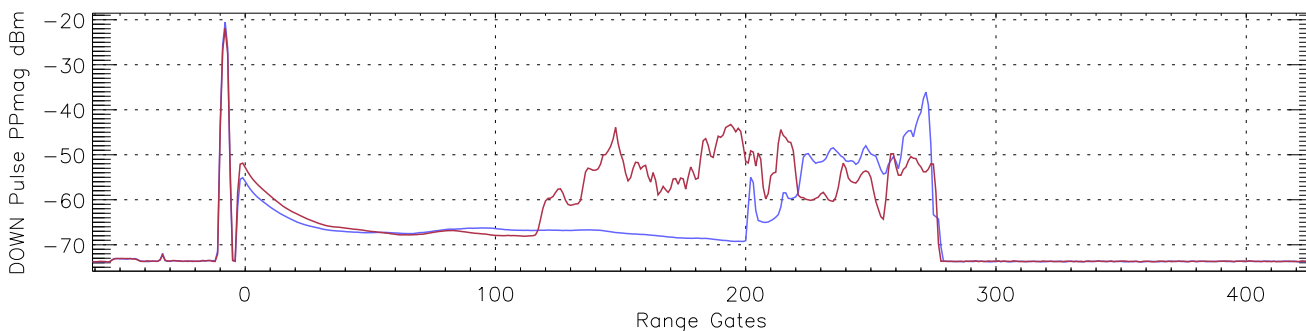
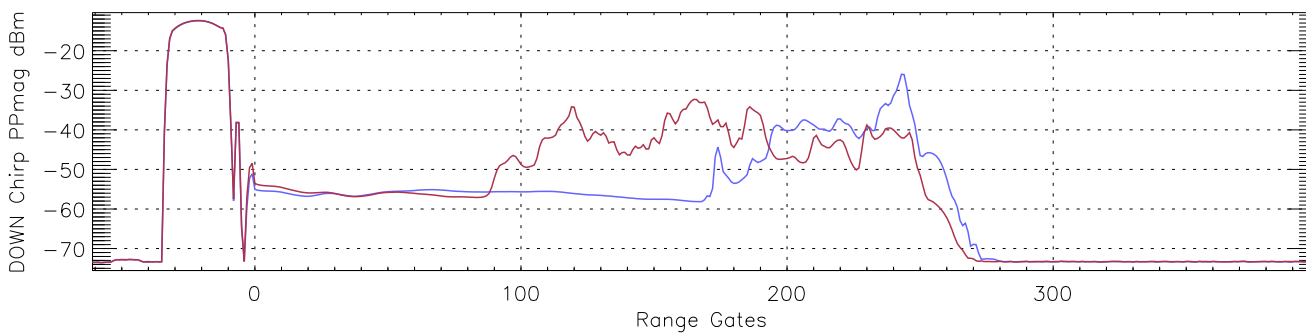
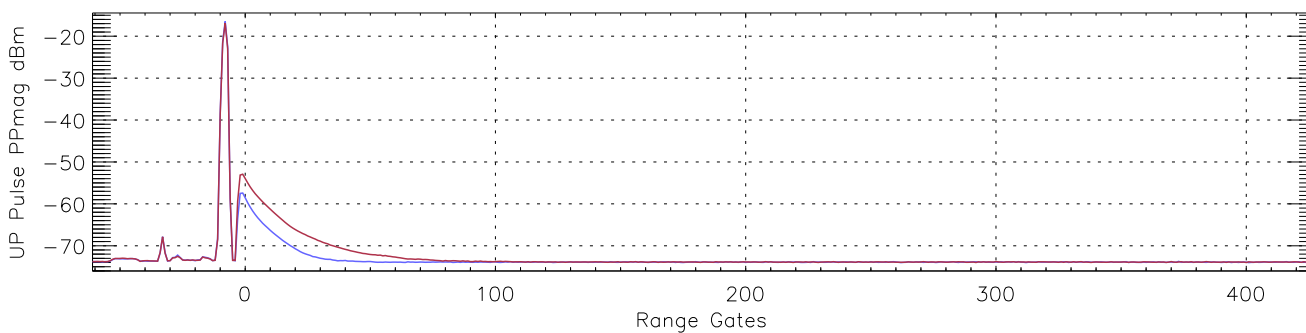
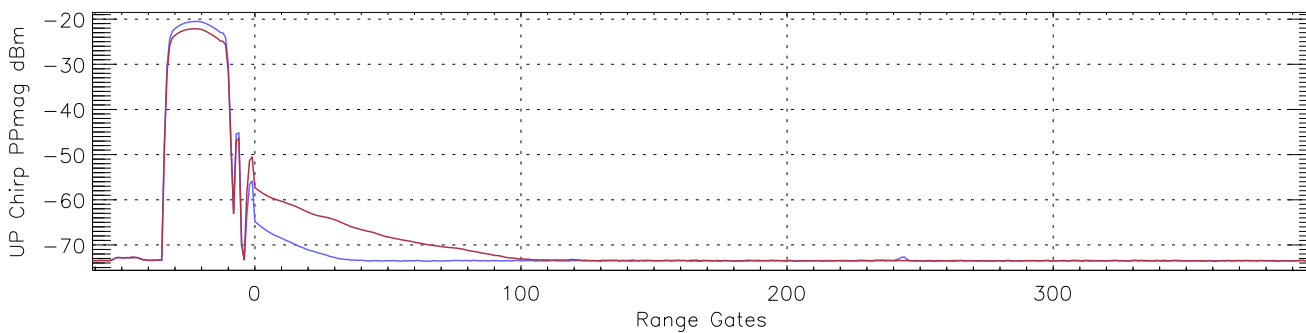
	Min	Max	Mean	Median	StDev
UP_C_RG385_0	-93.87	-68.03	-73.58	-73.89	-76.31
UP_P_RG230_0	-95.06	-68.76	-73.89	-74.15	-76.71
DOWN_C_WL_0	-90.69	-67.87	-73.33	-73.61	-76.17
DOWN_P_RG386_0	-97.62	-68.65	-73.71	-73.97	-76.51



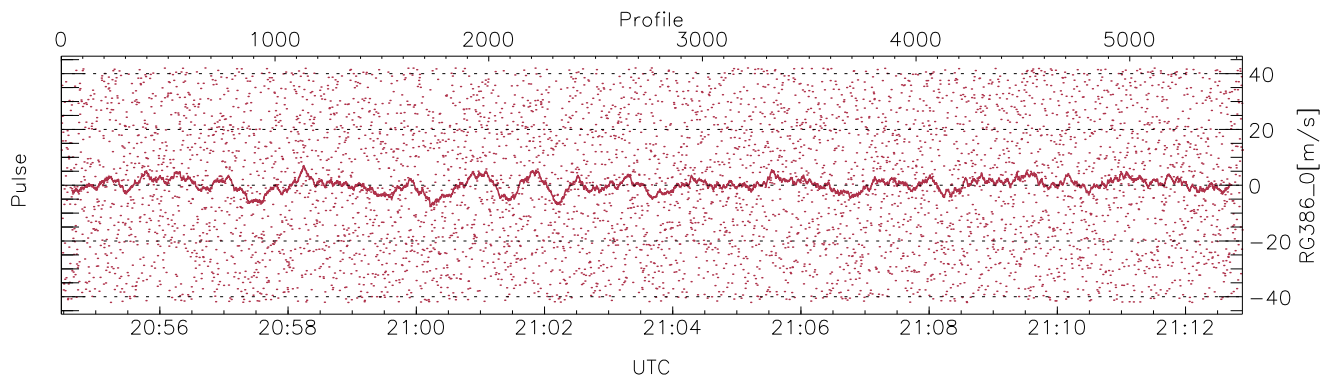
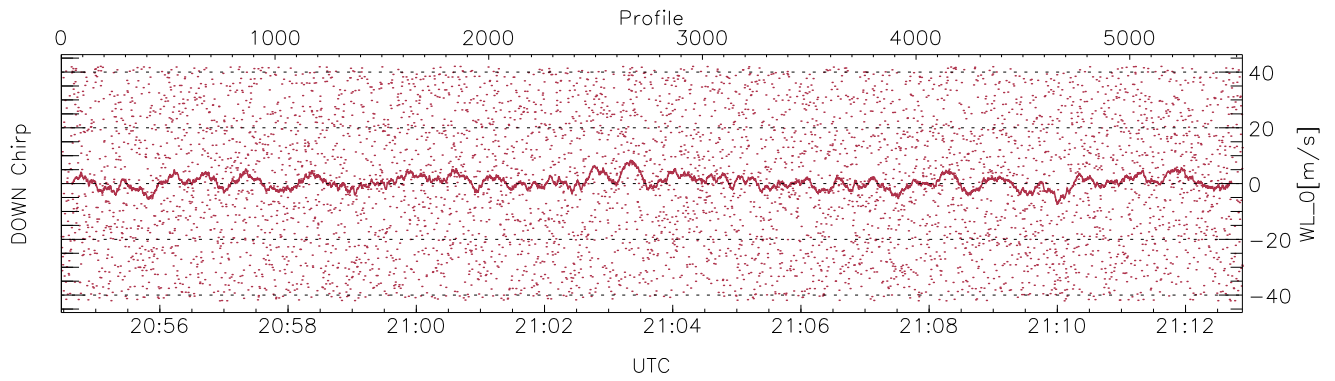
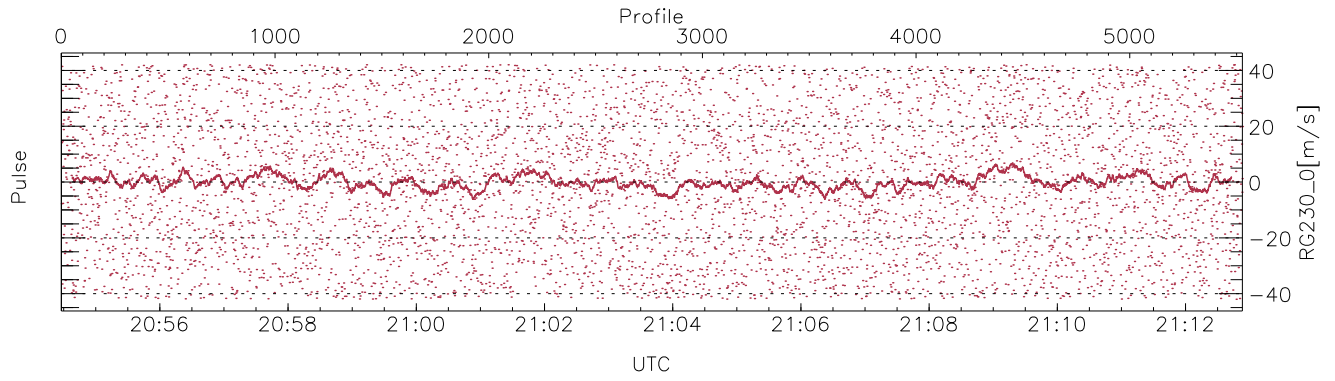
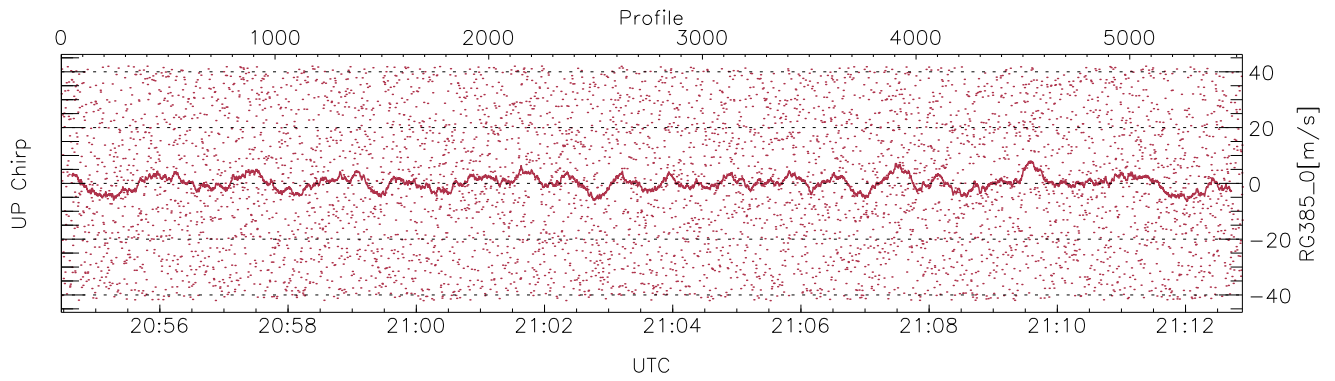
KPR SPP Averaged Received power for all recorded gates
blue: 205428-210340, 2765 profiles averaged
red: 210340-211253, 2764 profiles averaged



KPR SPP Averaged Power for neg. gates & up to 100 gates
blue: 205428-210340, 2765 profiles averaged
red: 210340-211253, 2764 profiles averaged

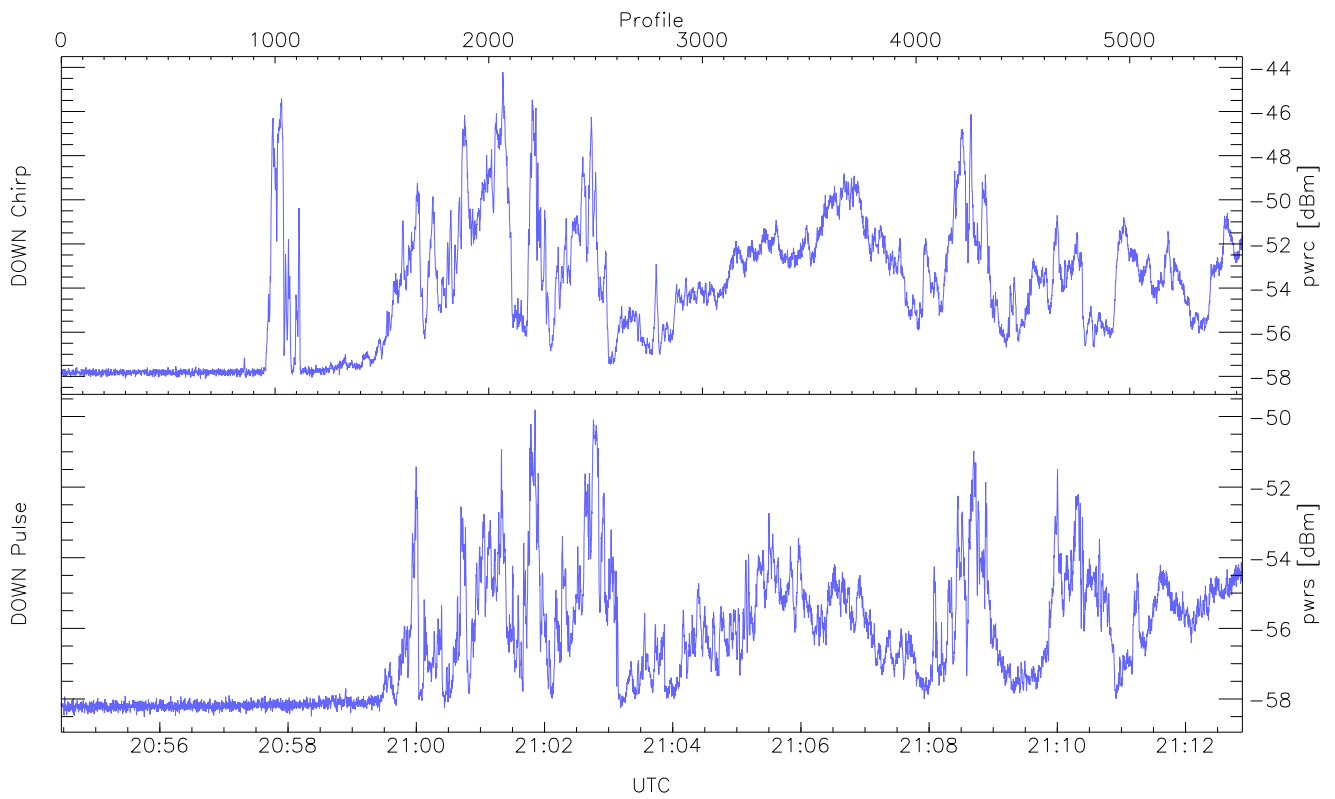
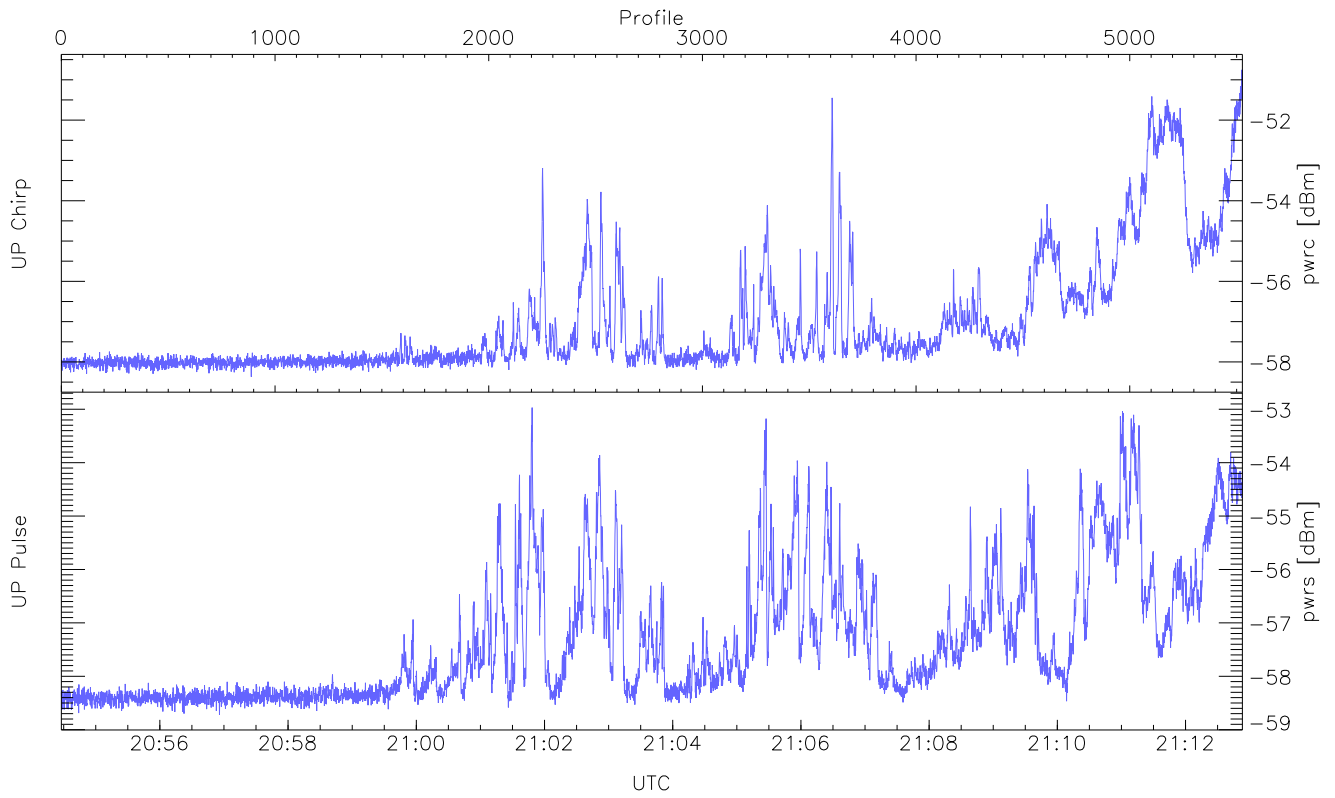


KPR SPP Averaged PP magnitude for all recorded gates
blue: 205428-210340, 2765 profiles averaged
red: 210340-211253, 2764 profiles averaged



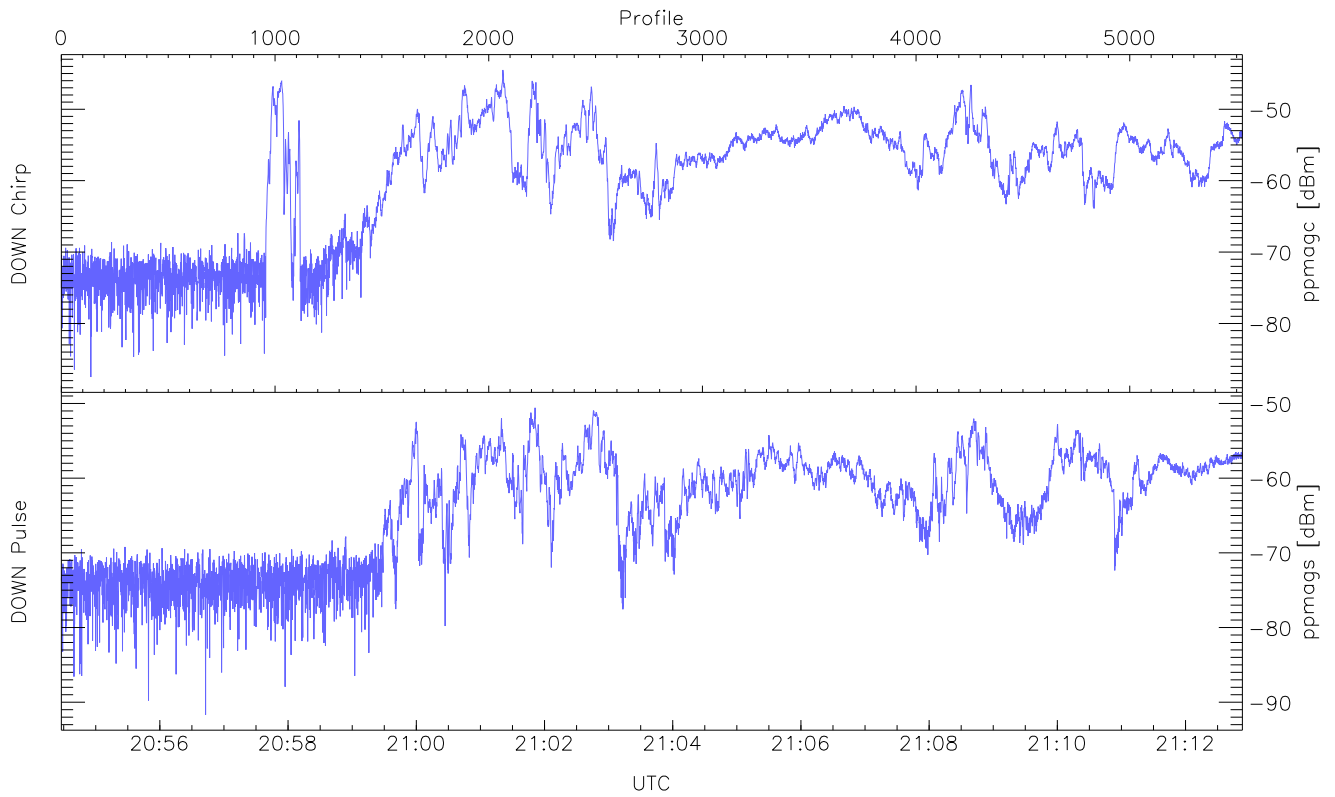
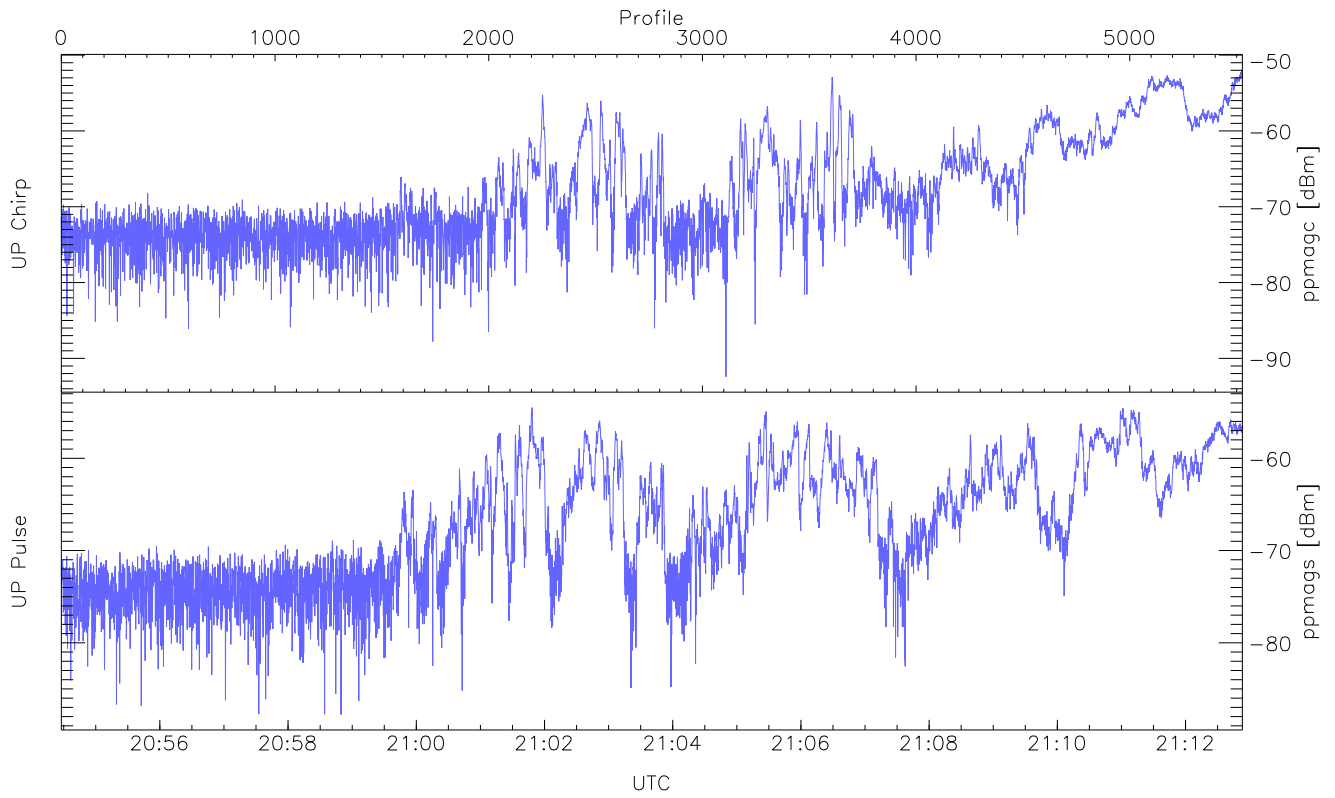
KPR SPP "Best" PPVEL noise (m/s):

	Min	Max	Mean	Median	StDev
UP_C_RG385_0	-42.05	42.03	0.00	-0.47	24.39
UP_P_RG230_0	-42.00	42.04	-0.09	0.17	23.93
DOWN_C_WL_0	-42.06	42.05	0.39	0.39	24.13
DOWN_P_RG386_0	-42.04	42.05	0.02	0.13	23.97



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

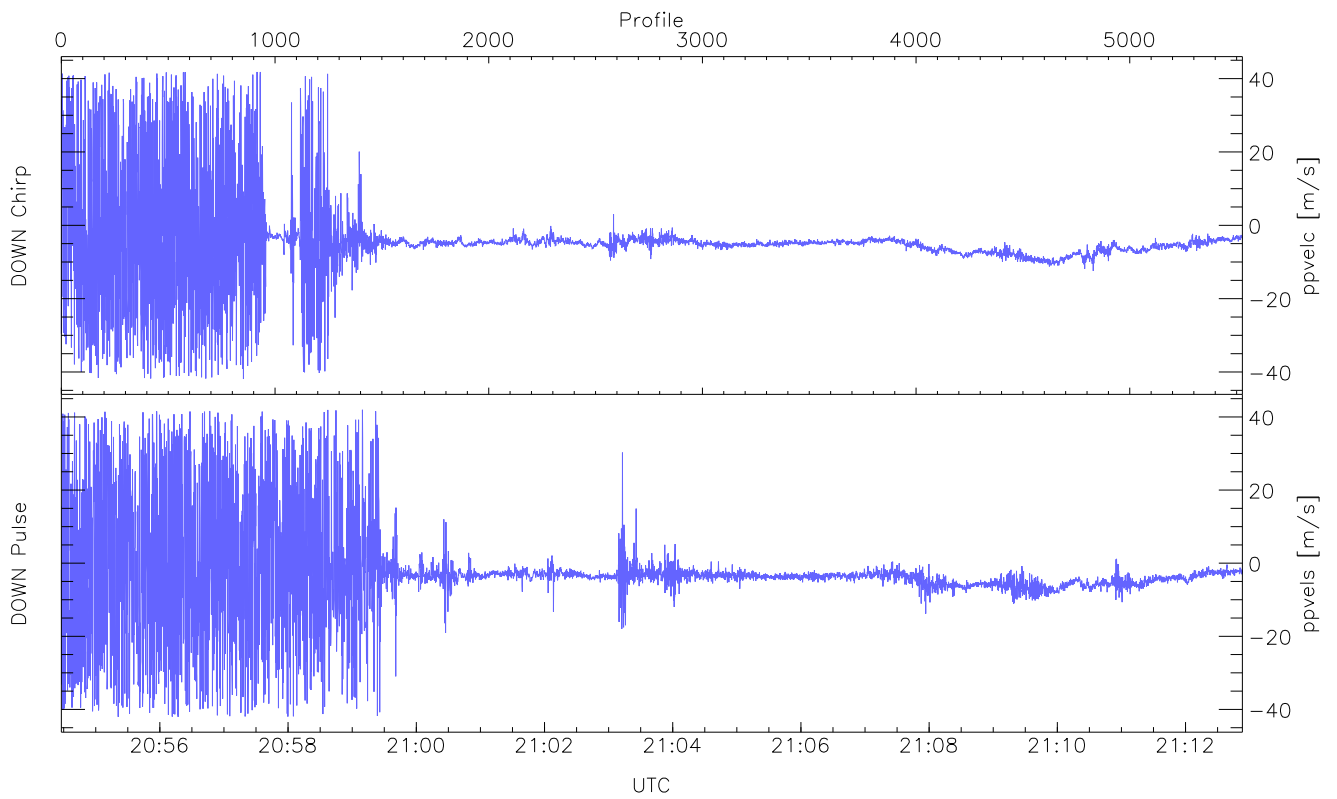
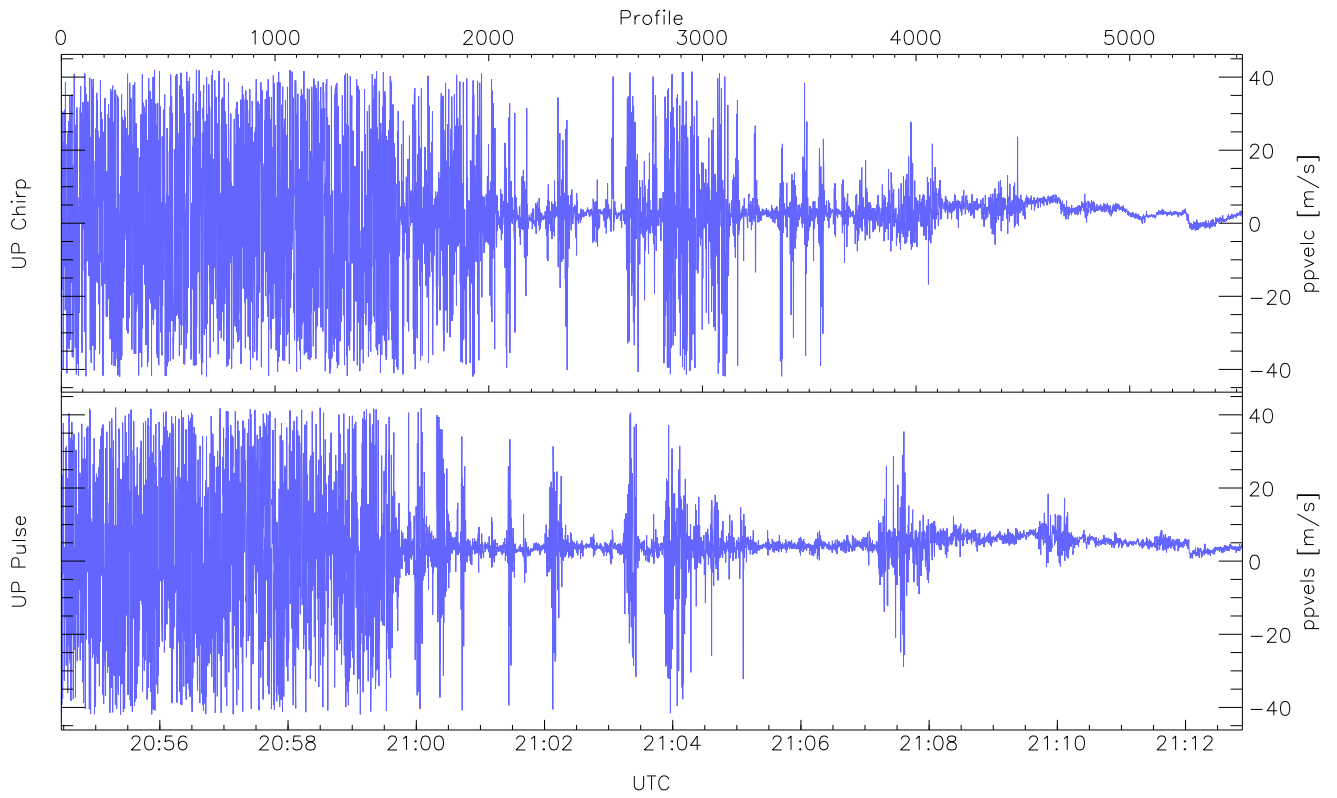
	Min	Max	Mean
UP Chirp(dBm)	-58.37	-50.75	-56.70
UP Pulse(dBm)	-58.72	-52.97	-57.11
DOWN Chirp(dBm)	-58.12	-44.21	-53.09
DOWN Pulse(dBm)	-58.51	-49.81	-56.03



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

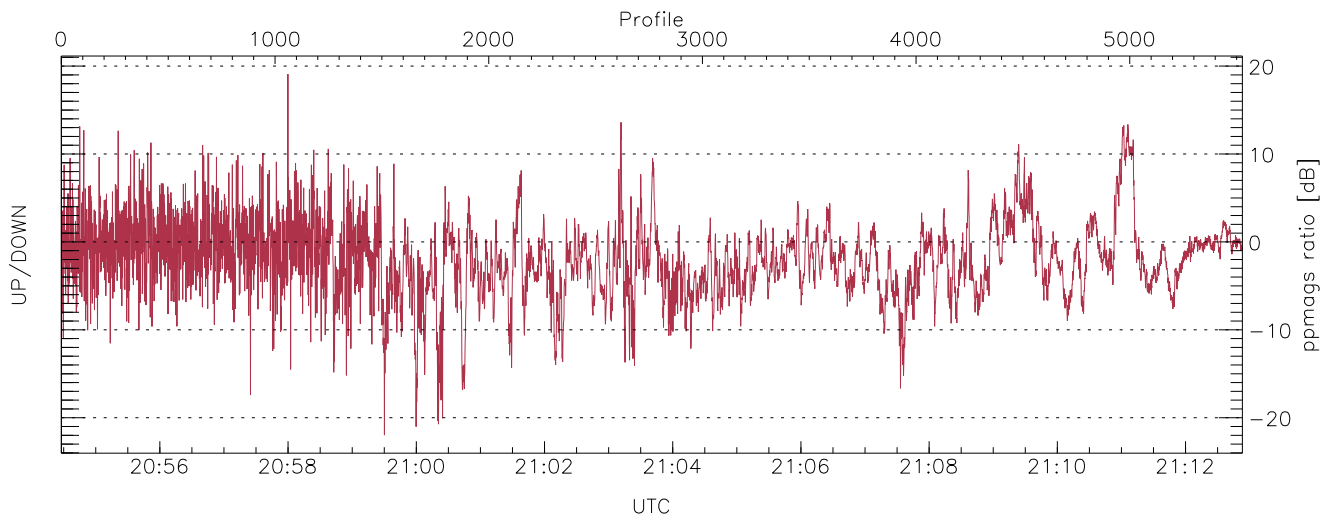
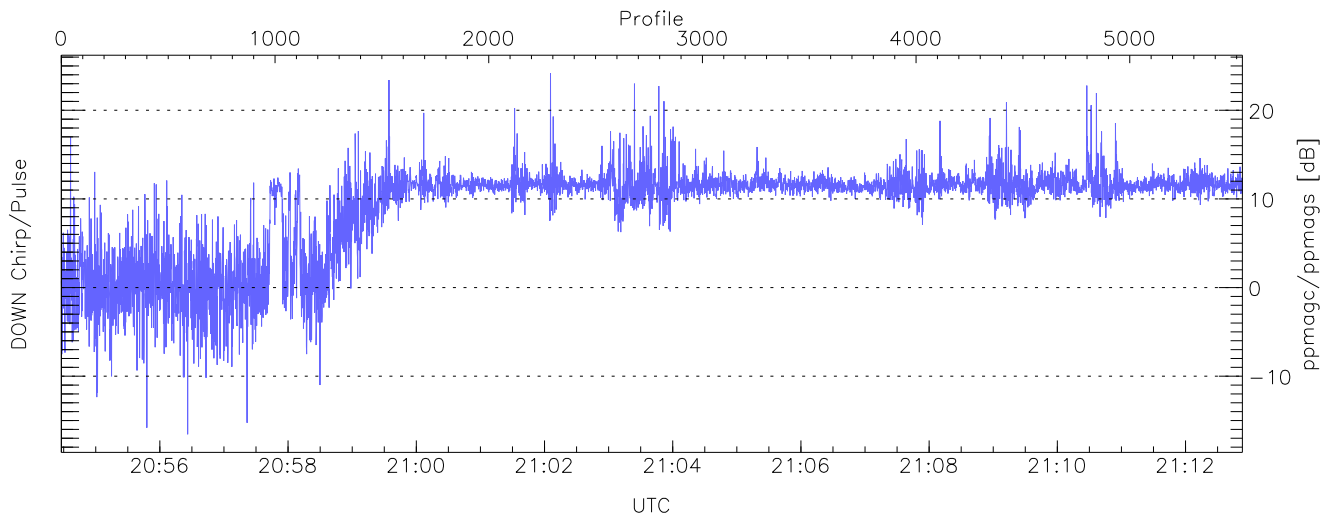
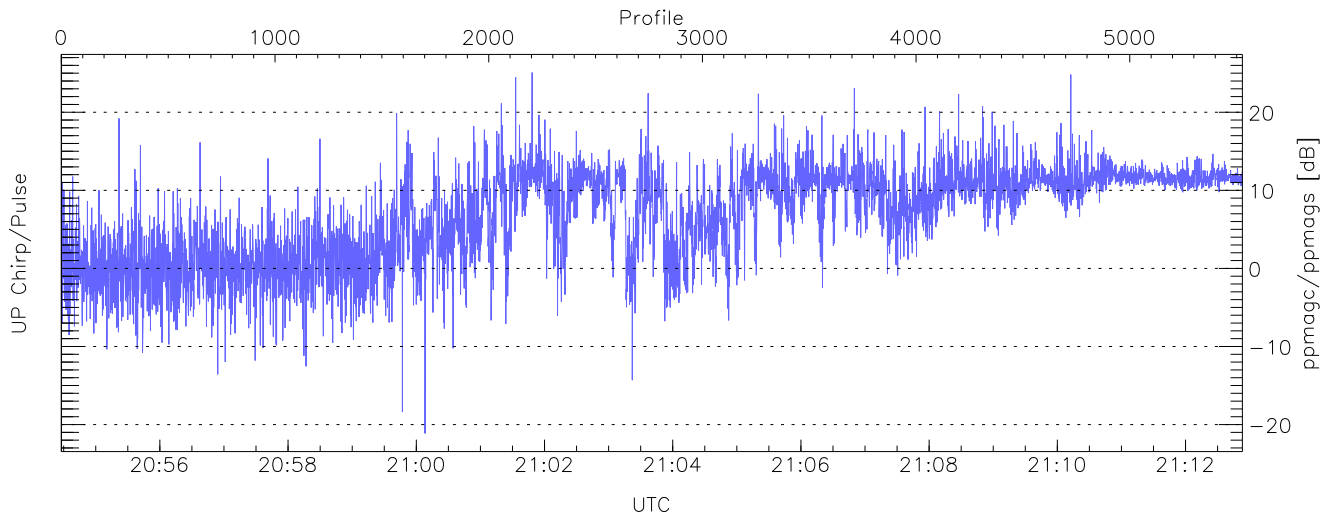
KPR SPP PPMAG for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-92.43	-51.93	-62.72
UP Pulse(dBm)	-87.78	-54.50	-63.09
DOWN Chirp(dBm)	-87.50	-44.50	-55.10
DOWN Pulse(dBm)	-91.69	-50.57	-60.20



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)	-42.04	42.01	2.00
UP Pulse(m/s)	-41.97	42.00	3.24
DOWN Chirp(m/s)	-41.91	41.81	-4.41
DOWN Pulse(m/s)	-42.03	41.97	-2.99



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

	Min	Max	Mean
UP Chirp/Pulse(dBm)	-21.15	25.09	9.71
DOWN Chirp/Pulse(dBm)	-16.55	24.18	10.88
UP/DOWN Ratio at Range 135.8 m			
	Min	Max	Mean
UP/DOWN(dB)	-21.98	19.09	0.54