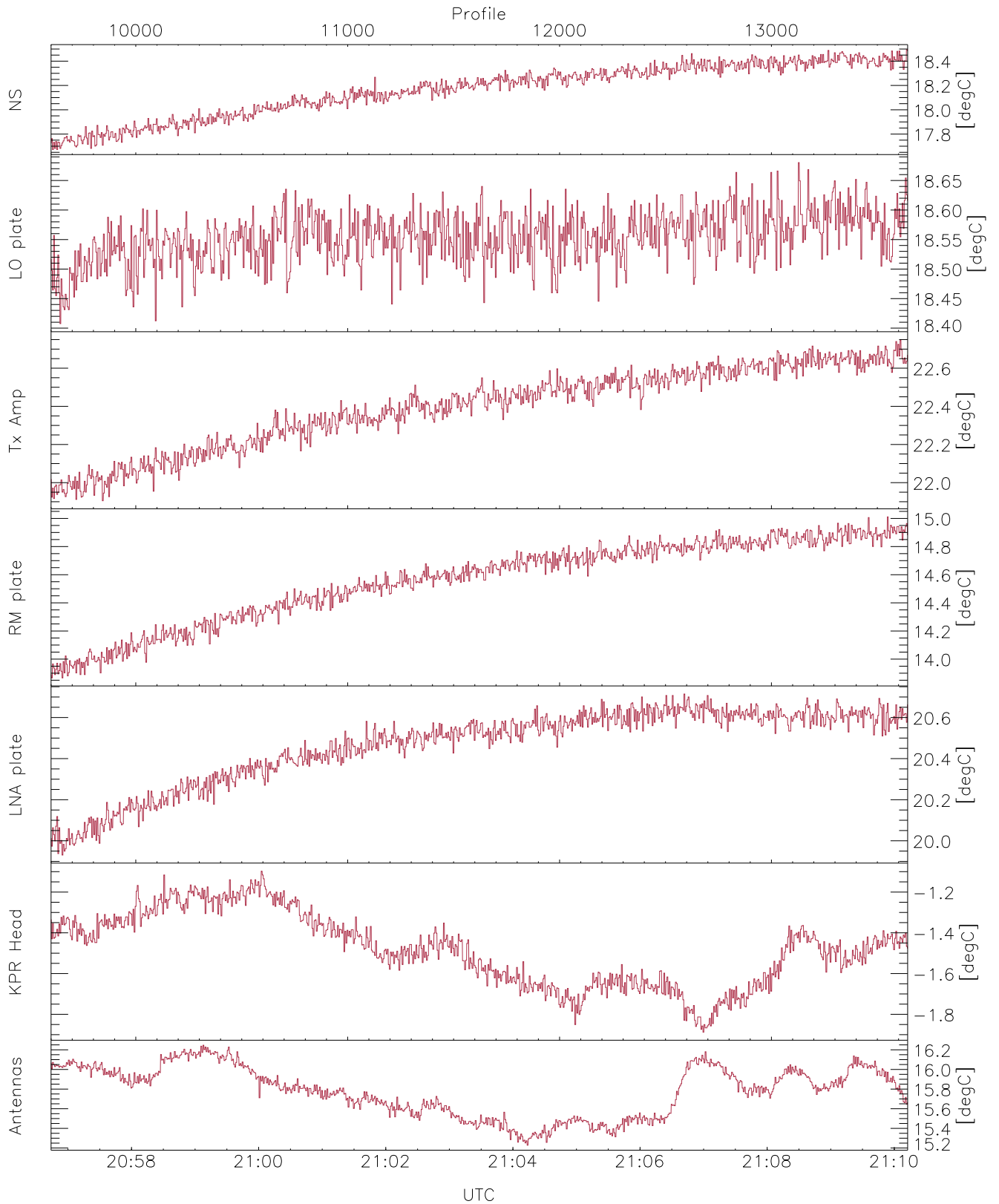


KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF
 UTC: 20:24:44-21:10:13, TimeCor: 0.00s, Dur: 808.60s
 TimeInt(min,max,mn,std): 190.2,209.8,200.0,0.5 ms; PPS: 5.0
 NumRec(r/t): 4044/13644, 9600-13643/20:56:44-21:10:13
 AcqTime(req,actual): 200.0,200.0 ms, Data Rate: 187.6 KB/s
 Pulse: 247 ns, Chirp: 2.47 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

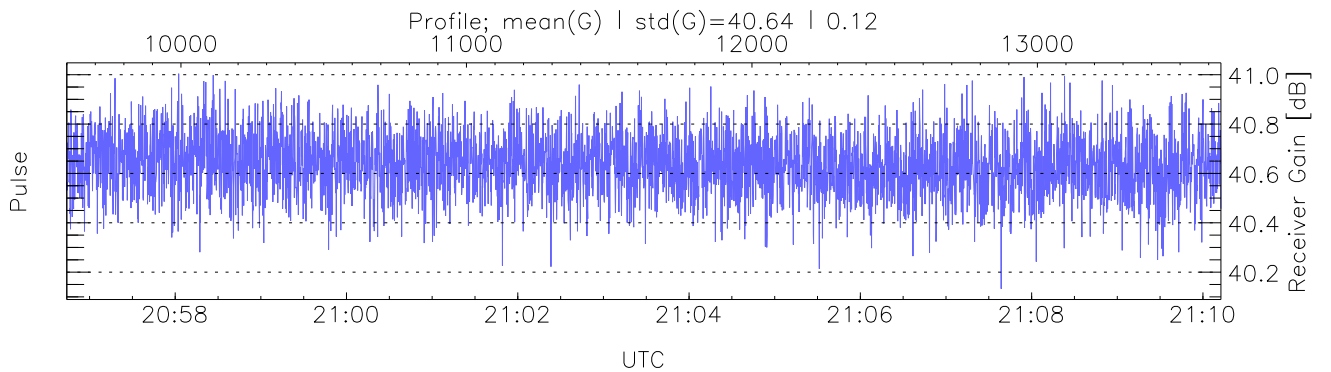
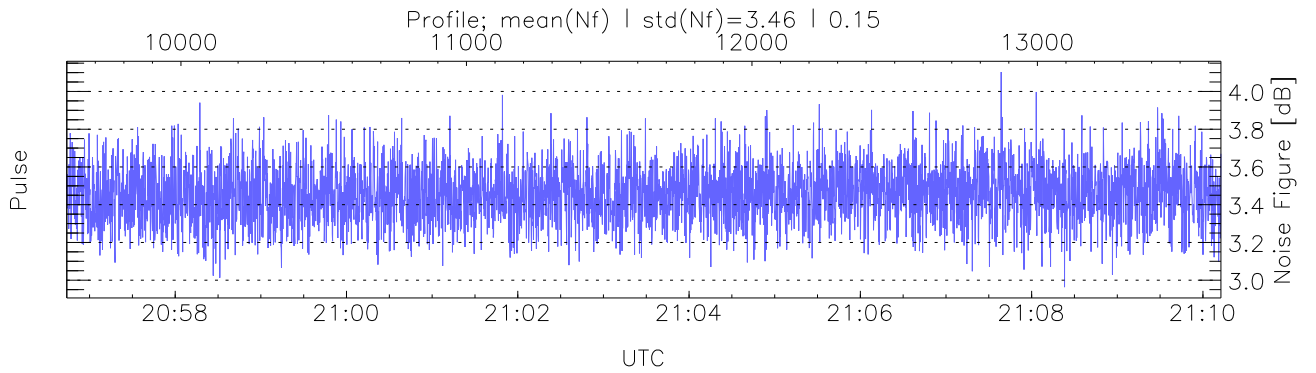
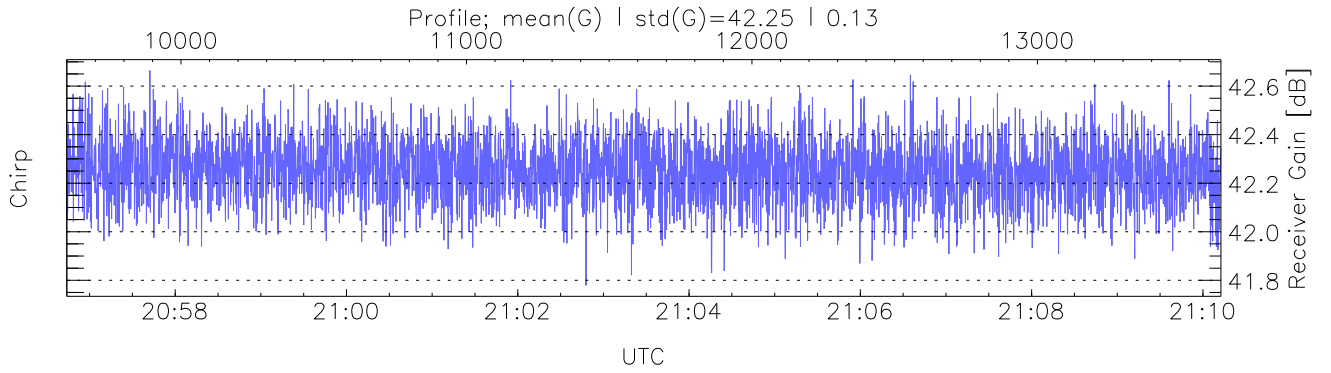
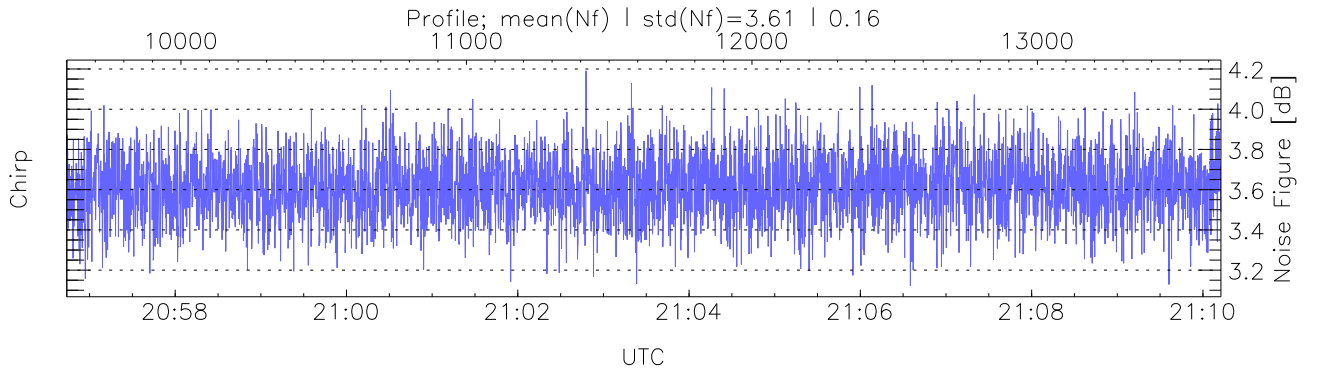


KPR SPP Temperatures, Power Supplies, PLO lock:

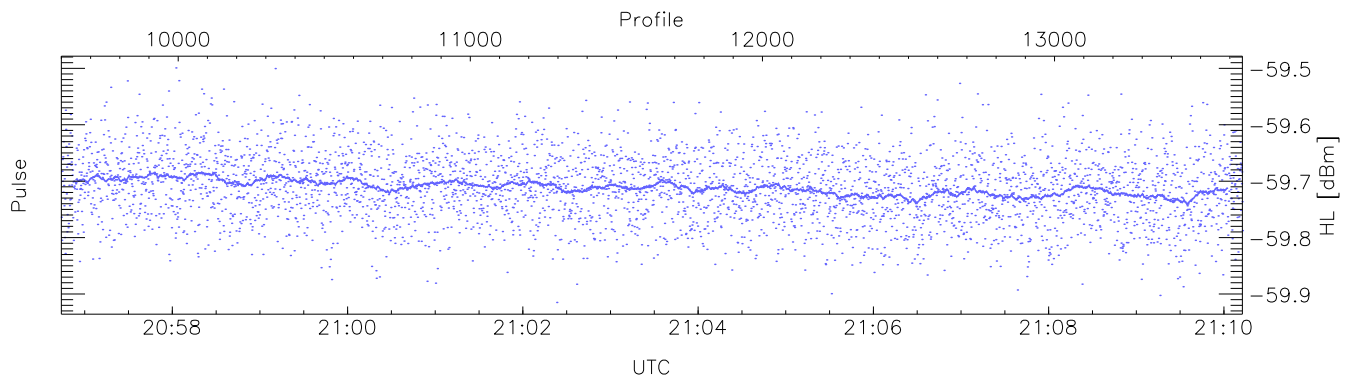
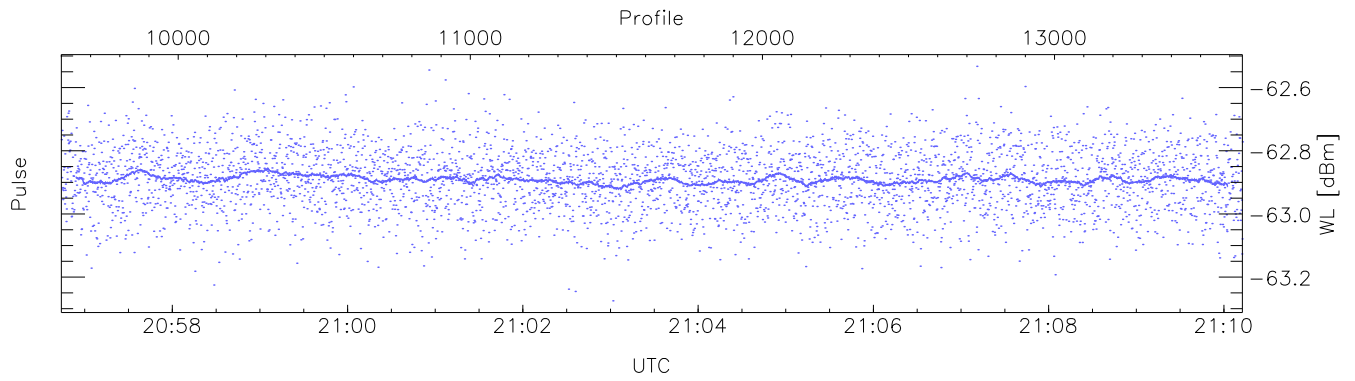
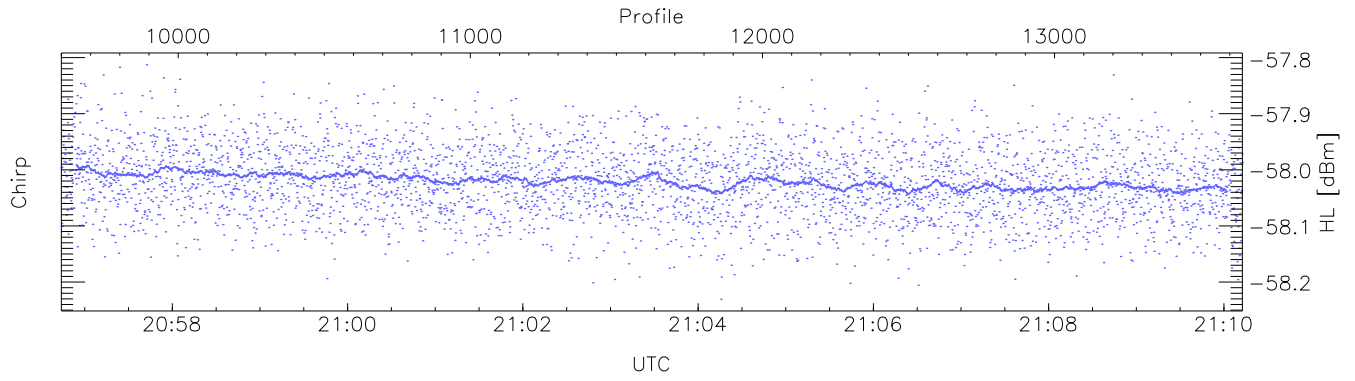
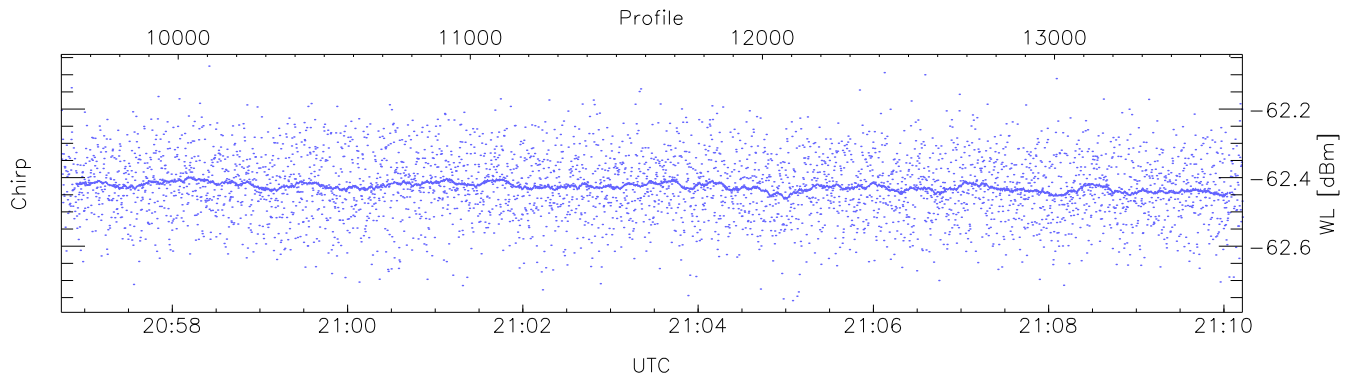
temperature:	NS,	LO,	Tx,	RM,	LNA,	Head,	Ant
mintempC:	17.7,	18.4,	21.9,	13.9,	19.9,	-1.9,	15.2
maxtempC:	18.5,	18.7,	22.7,	15.0,	20.7,	-1.1,	16.2
meantempC:	18.2,	18.6,	22.4,	14.6,	20.5,	-1.5,	15.8

PwrSply:	28,	12,	8,	5 VDC
minVDC:	25.88,	11.68,	7.87,	5.21
maxVDC:	27.73,	11.73,	7.89,	5.23
meanVDC:	26.98,	11.71,	7.88,	5.22

PLO(3.84,15.84 GHz) unlocked: None

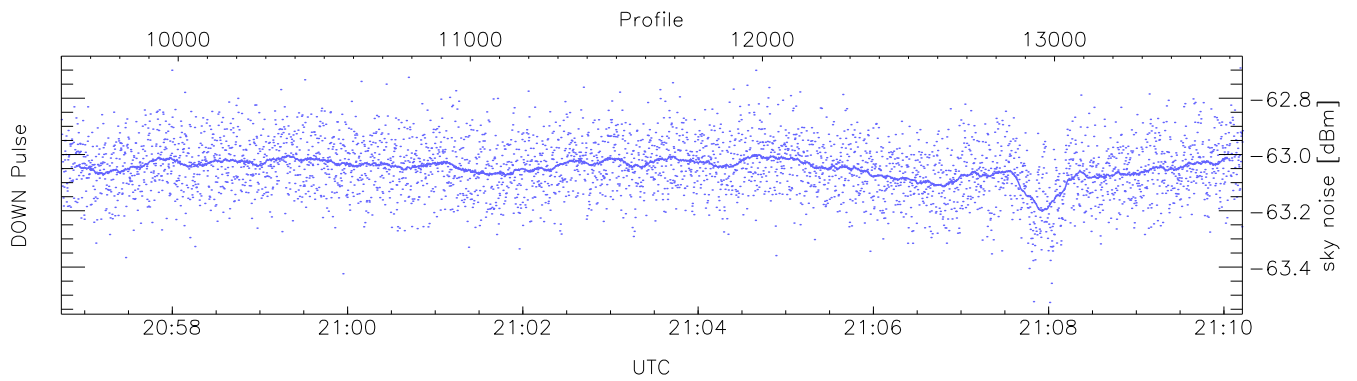
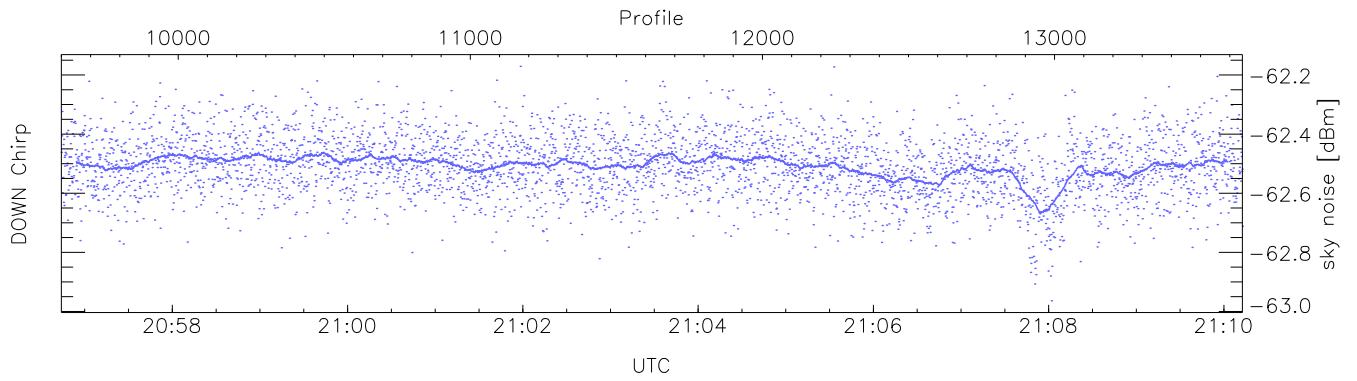
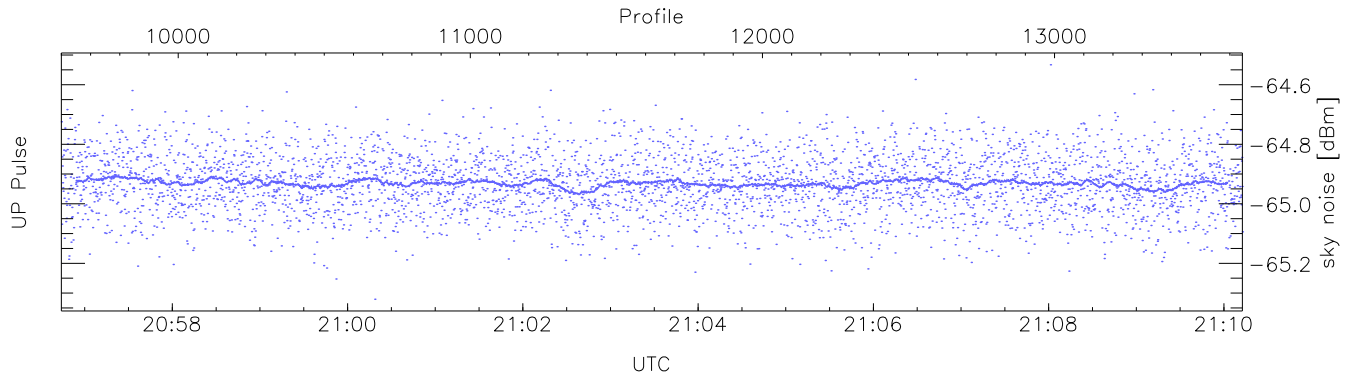
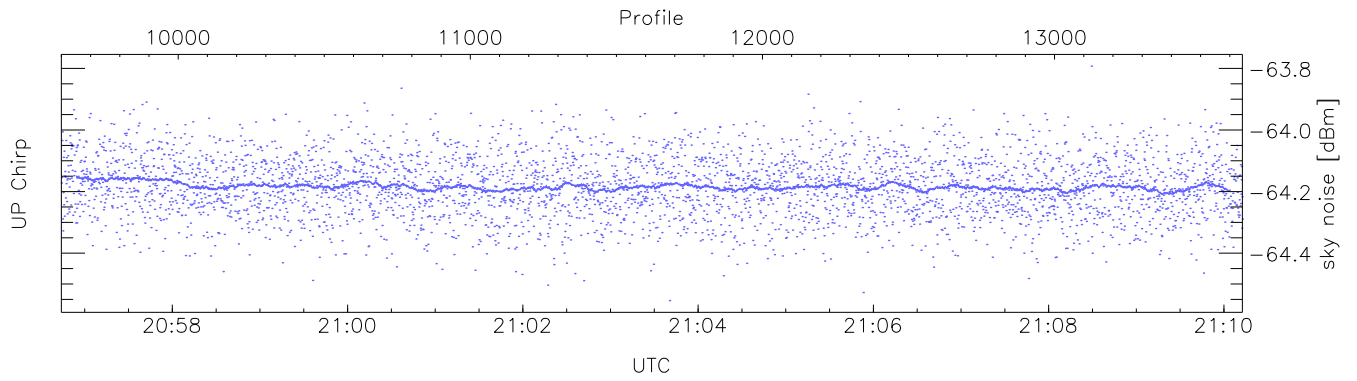


KPR SPP Receiver Gain and Noise Figure



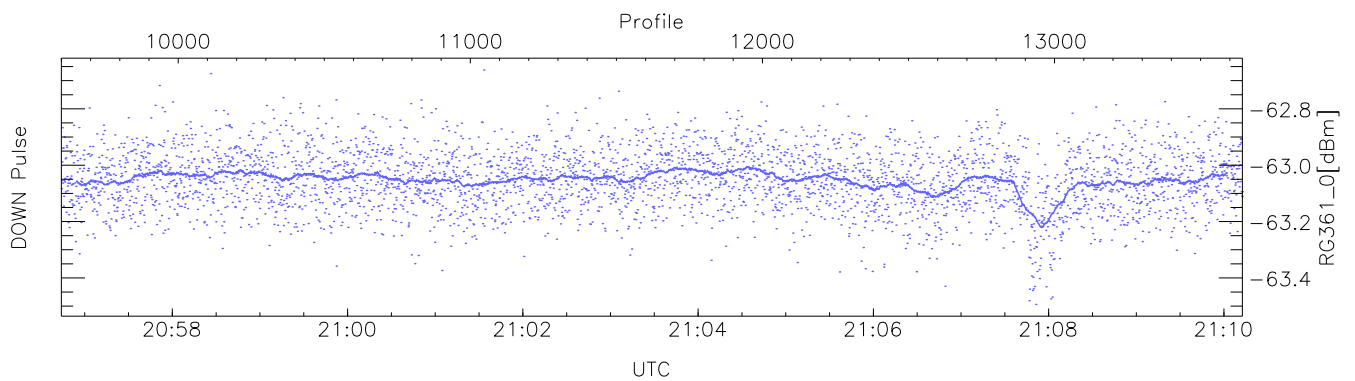
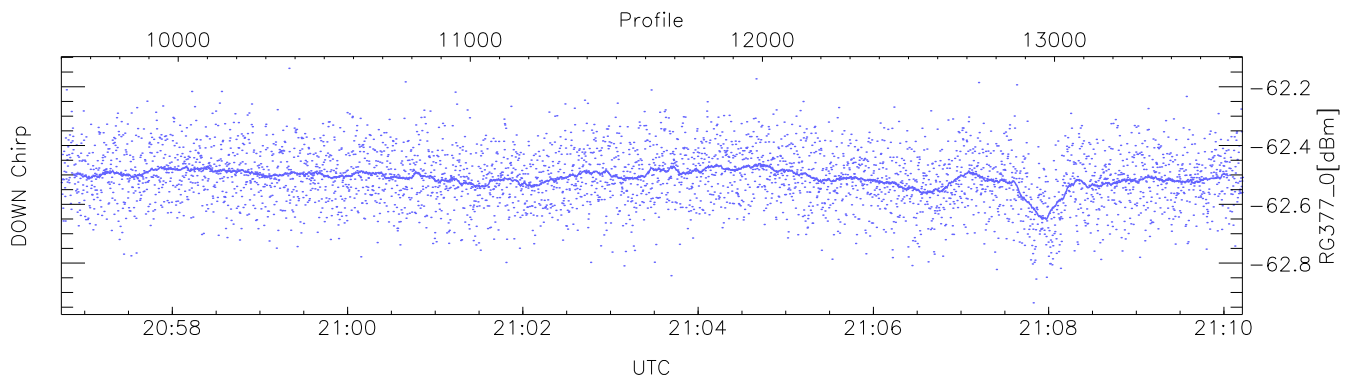
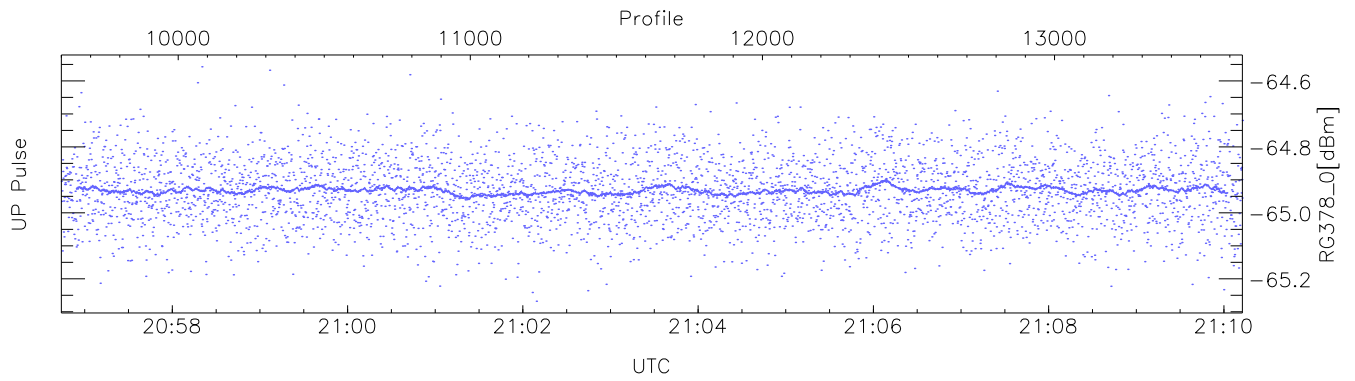
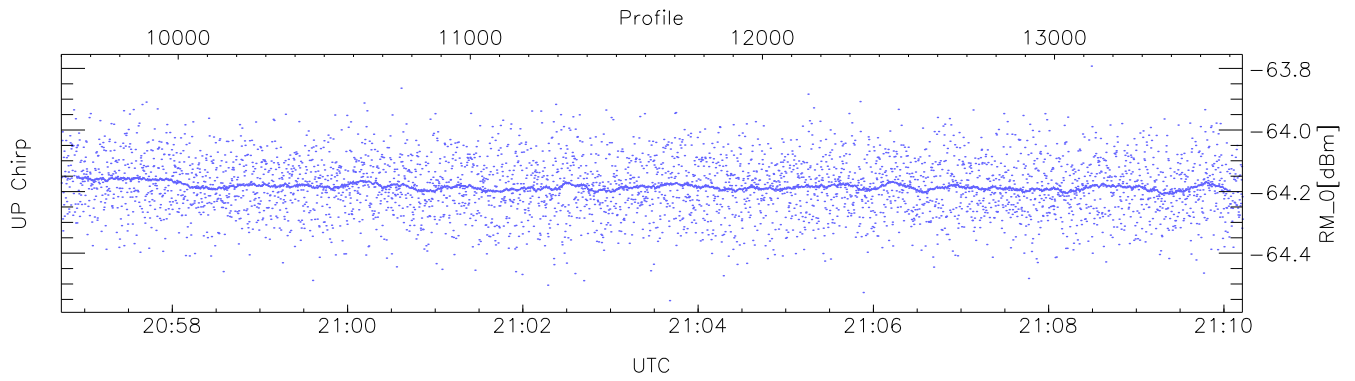
KPR SPP Receiver Noise Source Warm and Hot Measurements

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-62.76	-62.07	-62.43	-62.43	-78.85
Chirp(HL [dBm])	-58.23	-57.81	-58.02	-58.02	-76.53
Pulse(WL [dBm])	-63.28	-62.53	-62.89	-62.89	-79.37
Pulse(HL [dBm])	-59.91	-59.50	-59.71	-59.71	-78.34



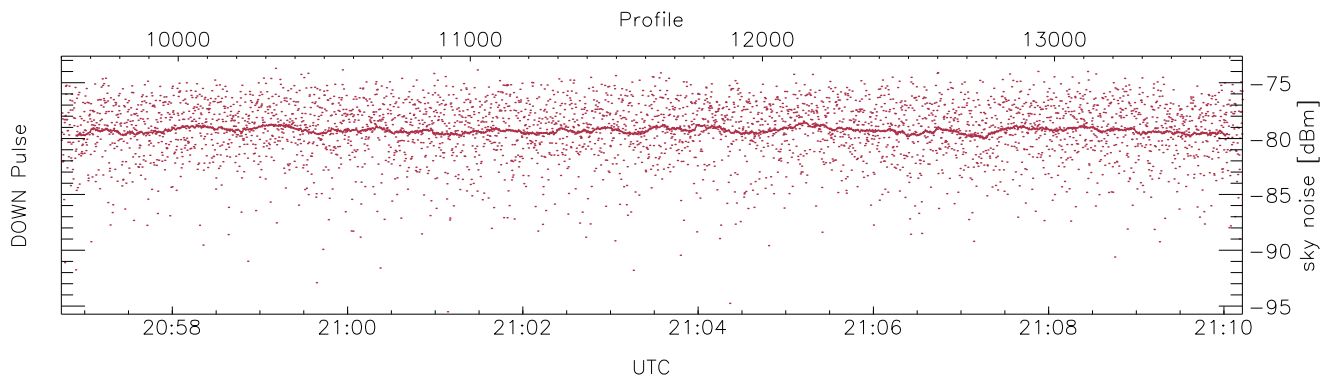
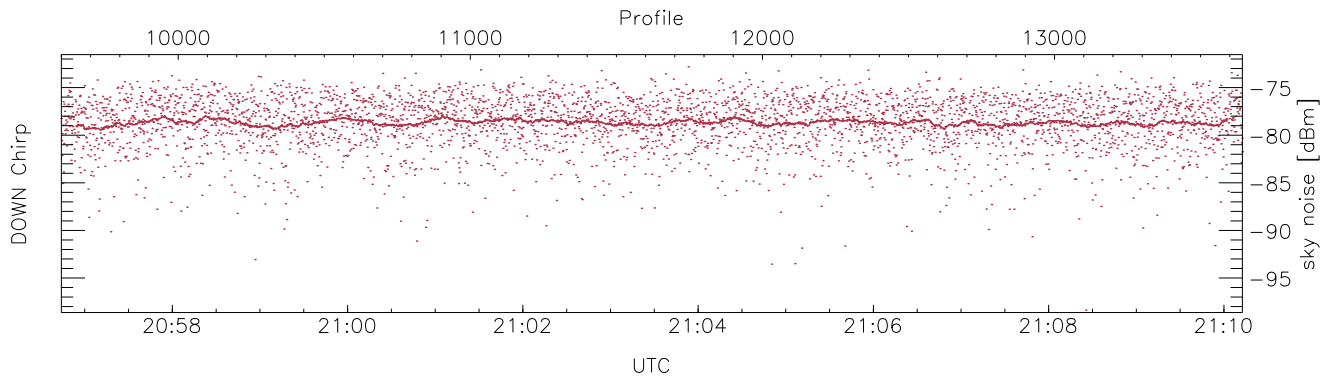
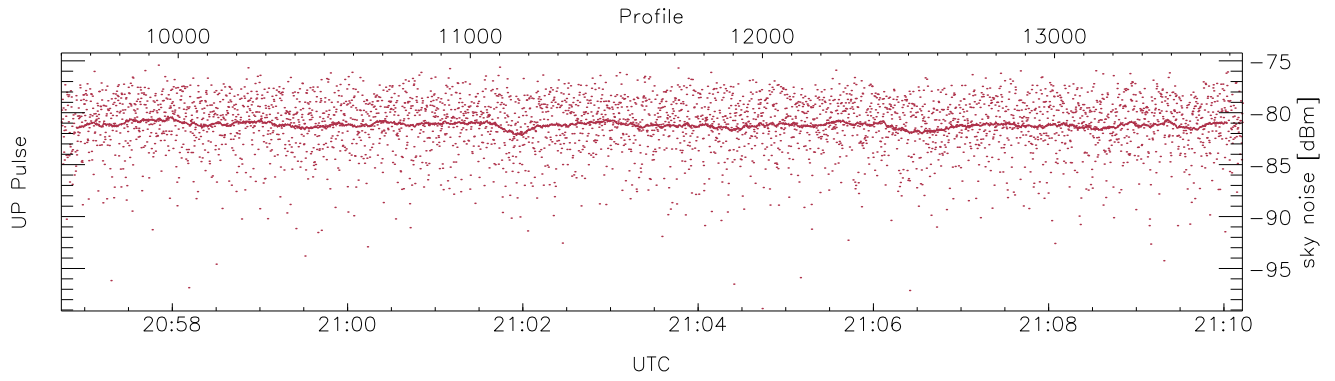
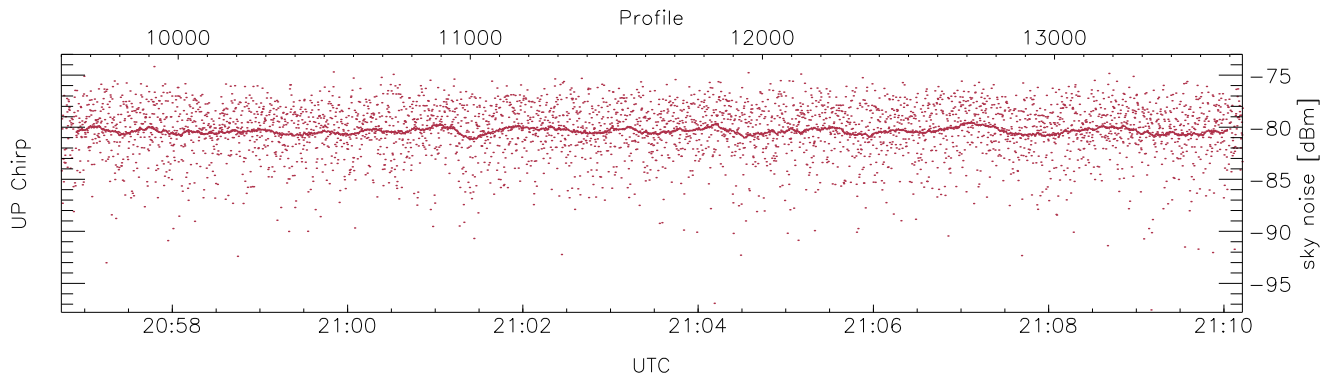
KPR SPP Last range gate power measurements: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-64.55	-63.79	-64.18	-64.18	-80.67
UP Pulse(dBm)	-65.32	-64.53	-64.93	-64.93	-81.42
DOWN Chirp(dBm)	-62.96	-62.17	-62.51	-62.51	-78.83
DOWN Pulse(dBm)	-63.53	-62.69	-63.05	-63.05	-79.27



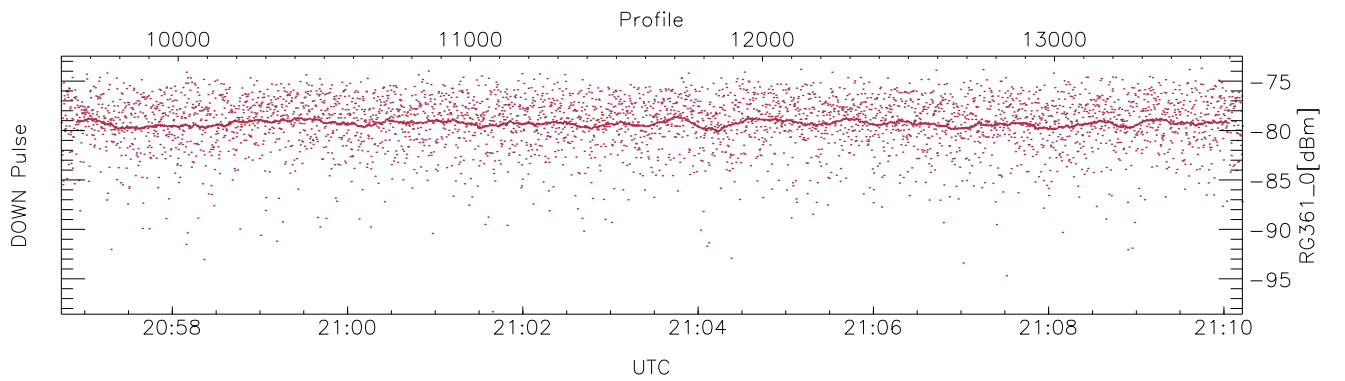
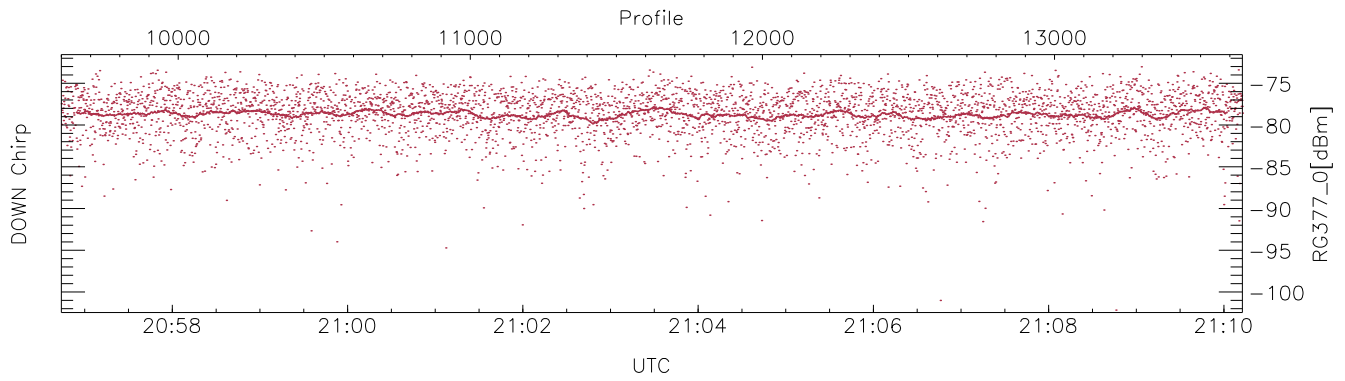
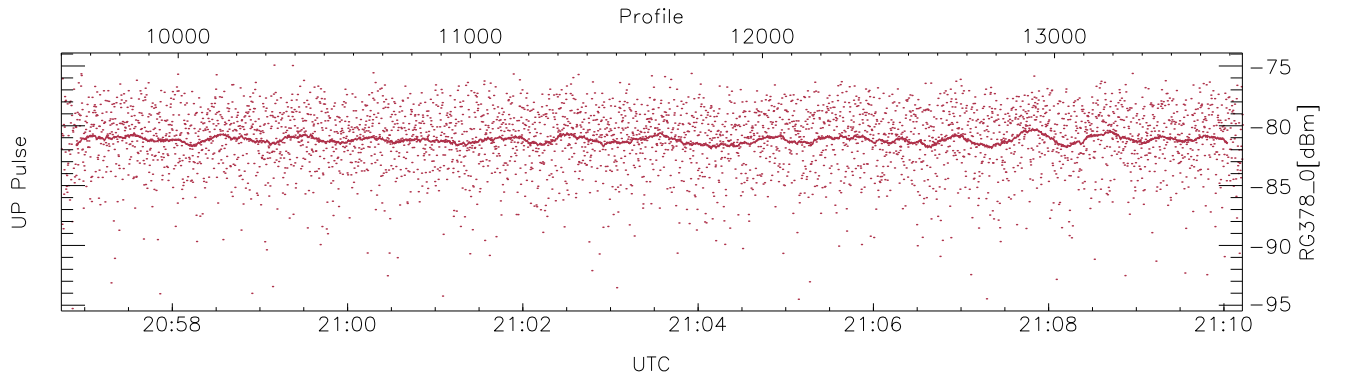
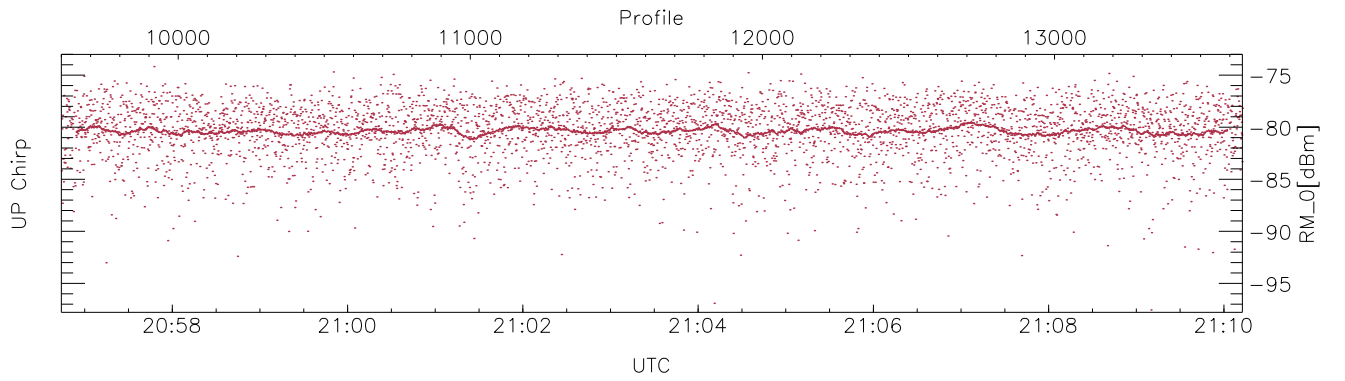
KPR SPP "Best" noise power measurements (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RM_0	-64.55	-63.79	-64.18	-64.18	-80.67
UP_P_RG378_0	-65.27	-64.56	-64.93	-64.93	-81.40
DOWN_C_RG377_0	-62.94	-62.14	-62.51	-62.51	-78.82
DOWN_P_RG361_0	-63.49	-62.66	-63.05	-63.05	-79.25



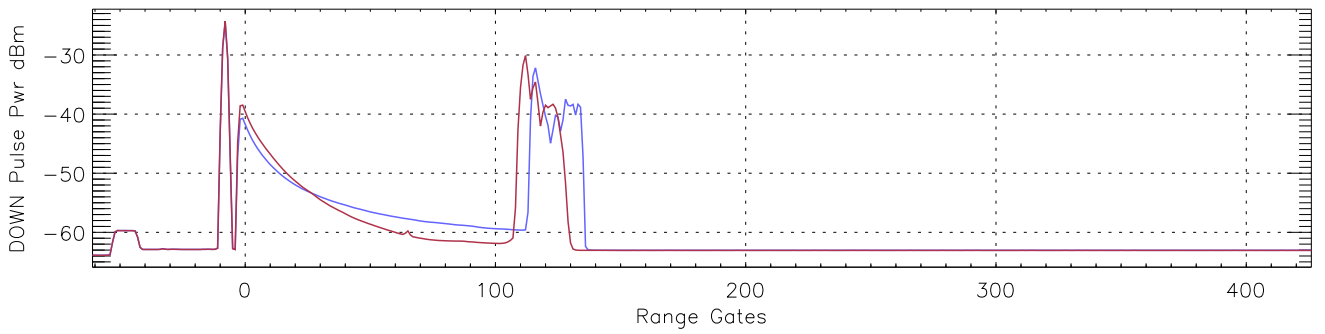
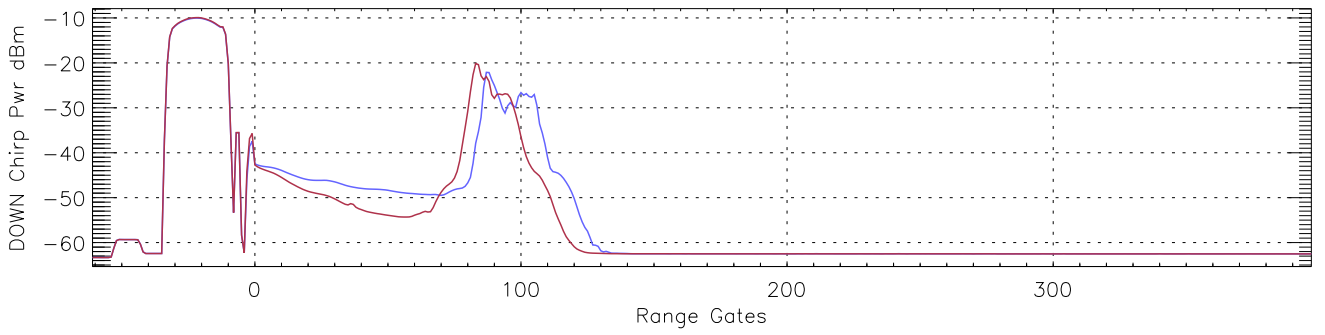
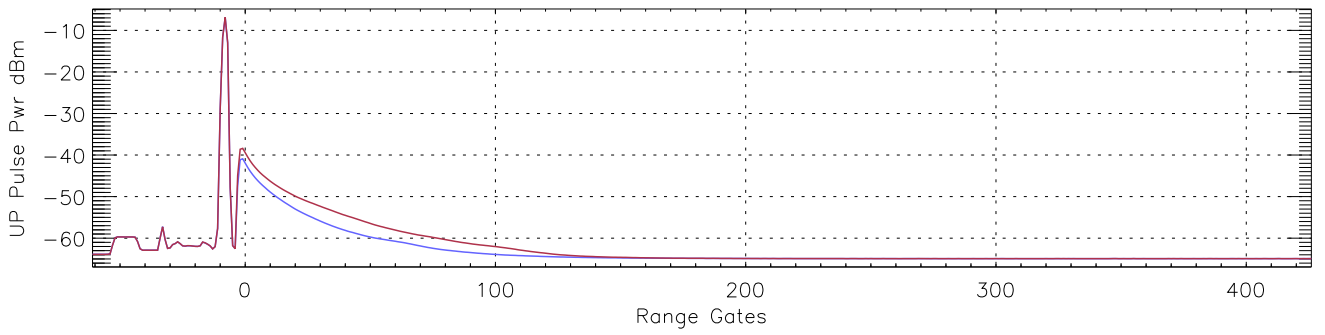
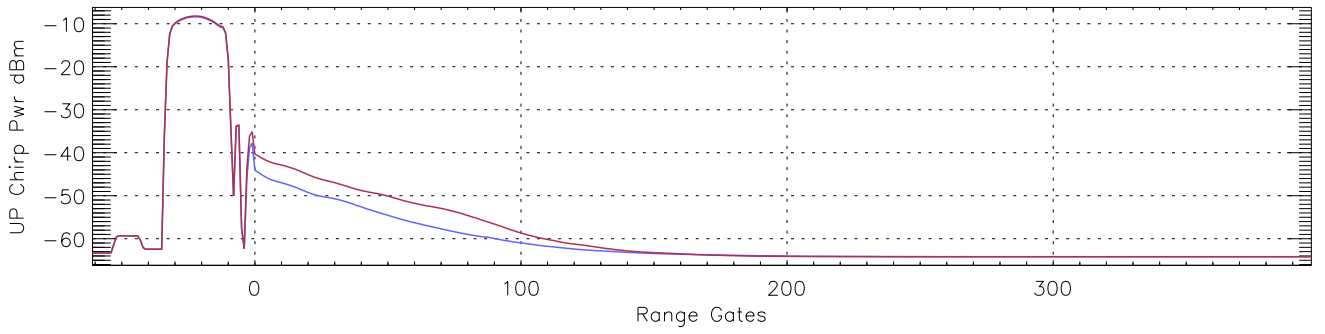
KPR SPP Last range gate PPMAG: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-97.55	-74.18	-79.67	-79.98	-82.48
UP Pulse(dBm)	-98.86	-75.42	-80.44	-80.72	-83.21
DOWN Chirp(dBm)	-98.37	-72.81	-78.00	-78.30	-80.91
DOWN Pulse(dBm)	-95.51	-73.71	-78.57	-78.90	-81.37

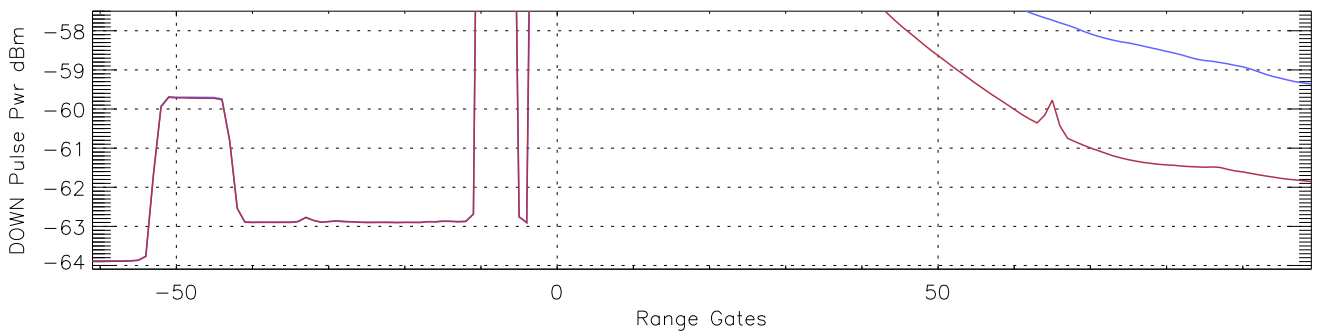
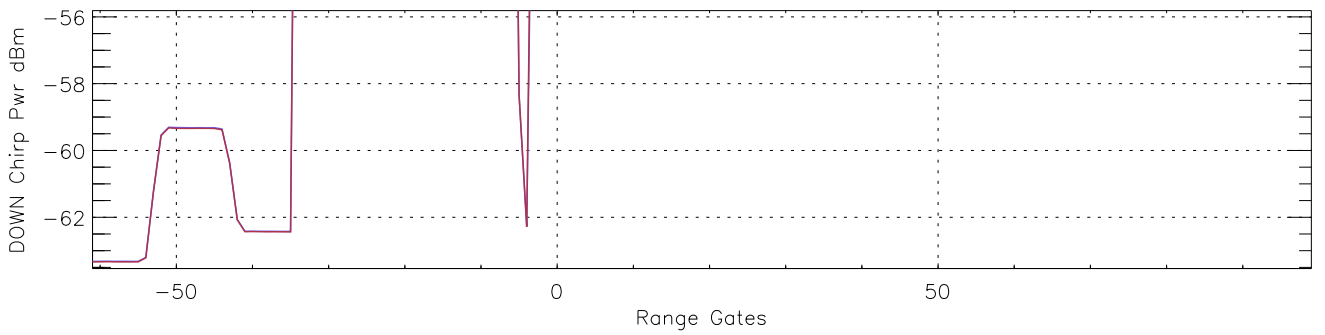
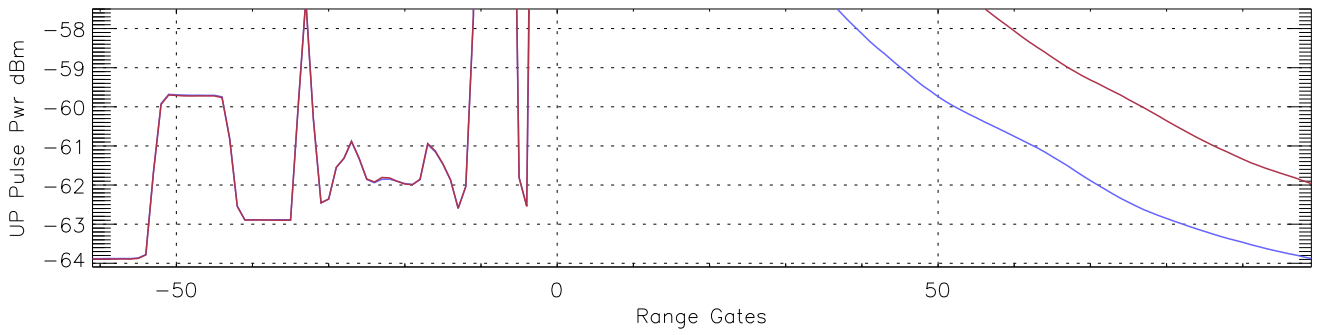
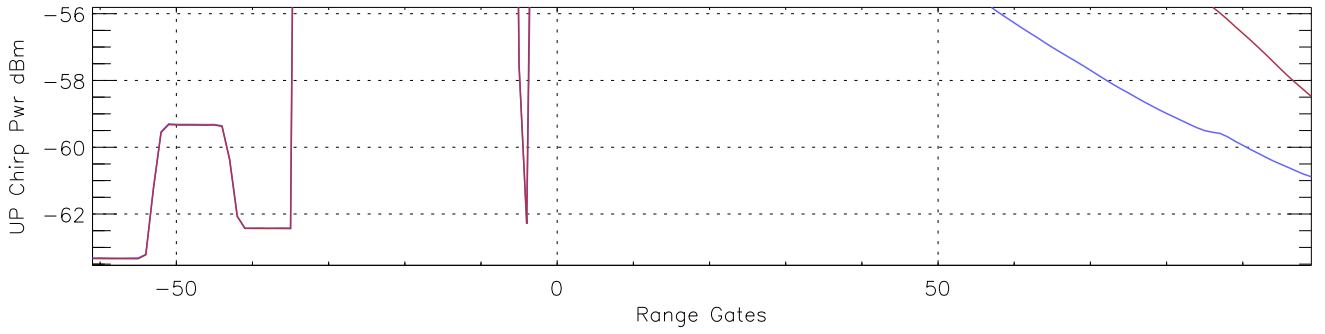


KPR SPP "Best" PPMAG noise (dBm):

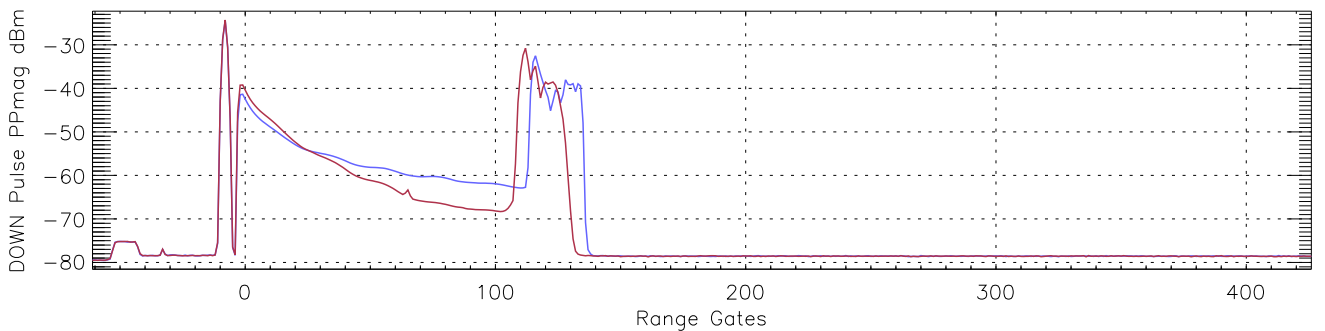
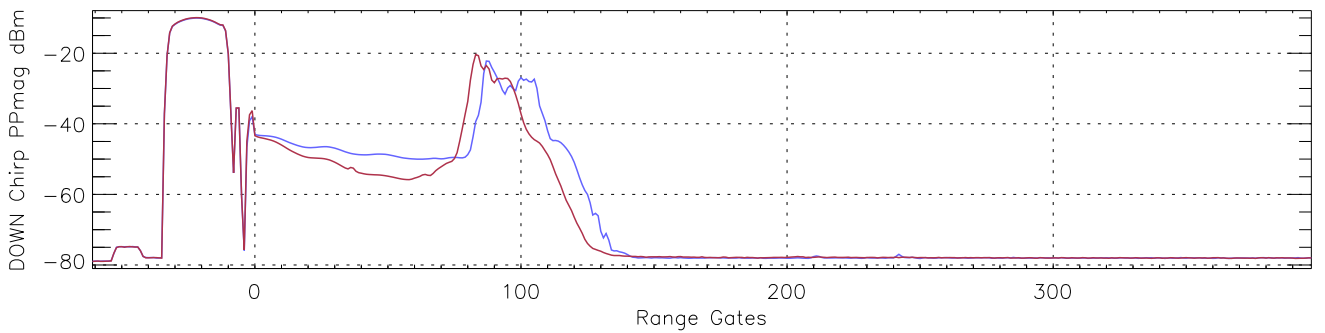
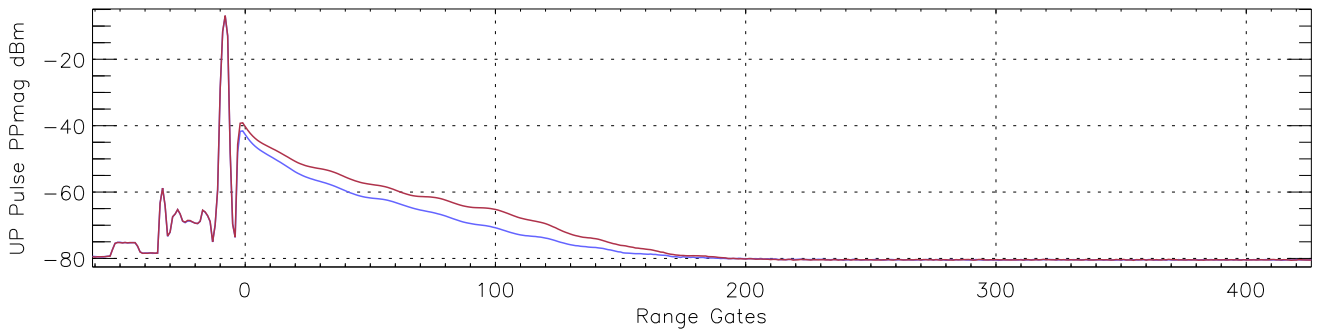
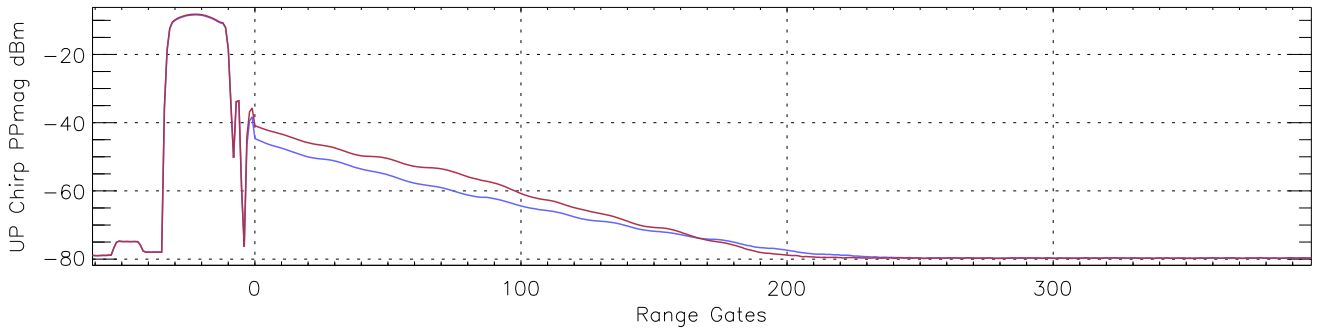
	Min	Max	Mean	Median	StDev
UP_C_RM_0	-97.55	-74.18	-79.67	-79.98	-82.48
UP_P_RG378_0	-95.28	-74.93	-80.45	-80.76	-83.14
DOWN_C_RG377_0	-102.17	-73.02	-78.00	-78.25	-80.82
DOWN_P_RG361_0	-98.33	-73.71	-78.56	-78.83	-81.37



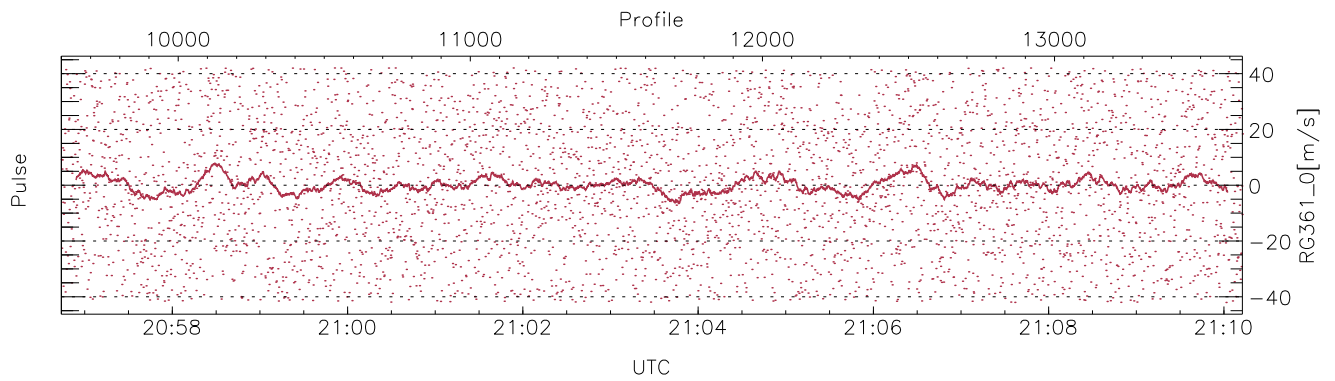
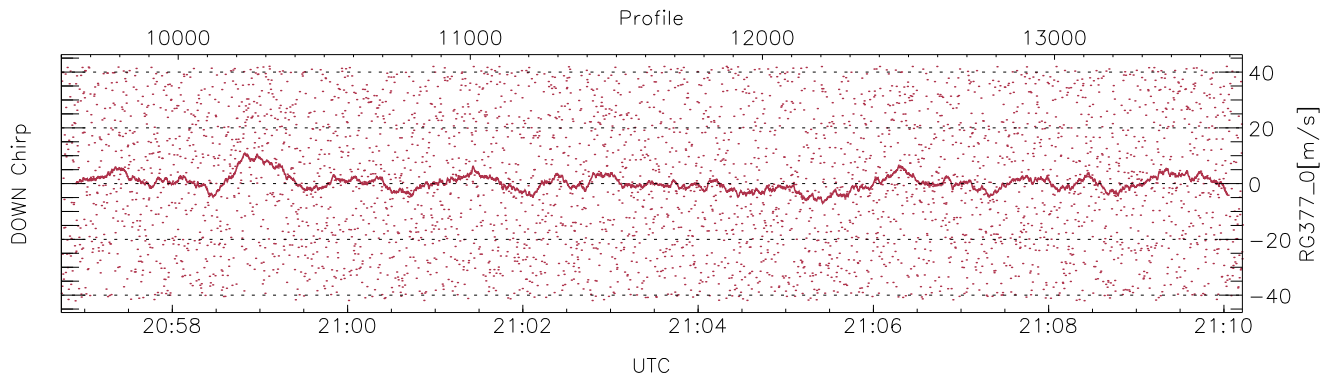
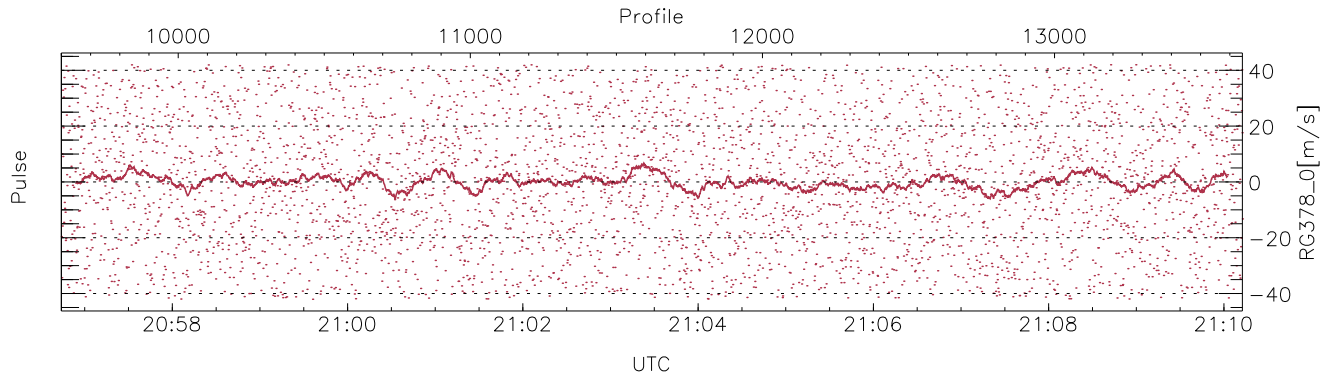
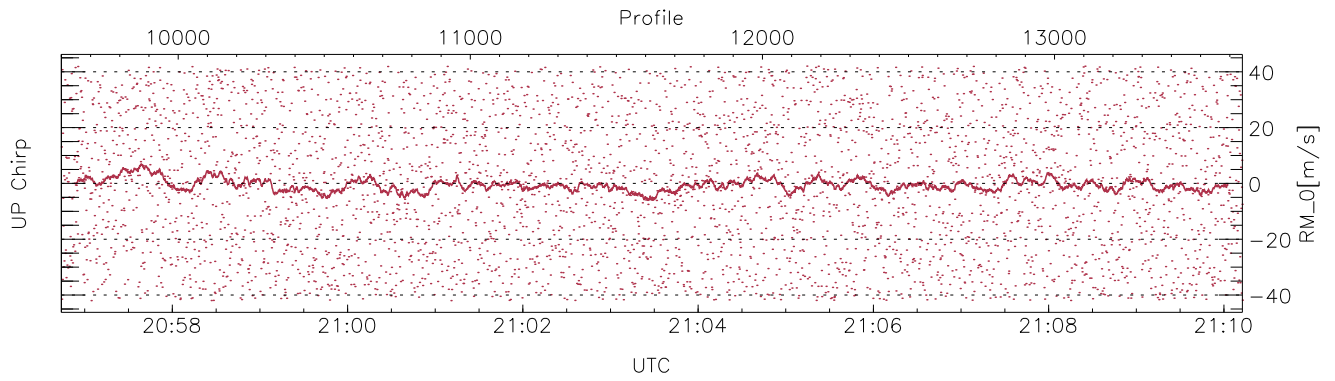
KPR SPP Averaged Received power for all recorded gates
blue: 205644-210328, 2023 profiles averaged
red: 210328-211013, 2022 profiles averaged



KPR SPP Averaged Power for neg. gates & up to 100 gates
blue: 205644-210328, 2023 profiles averaged
red: 210328-211013, 2022 profiles averaged

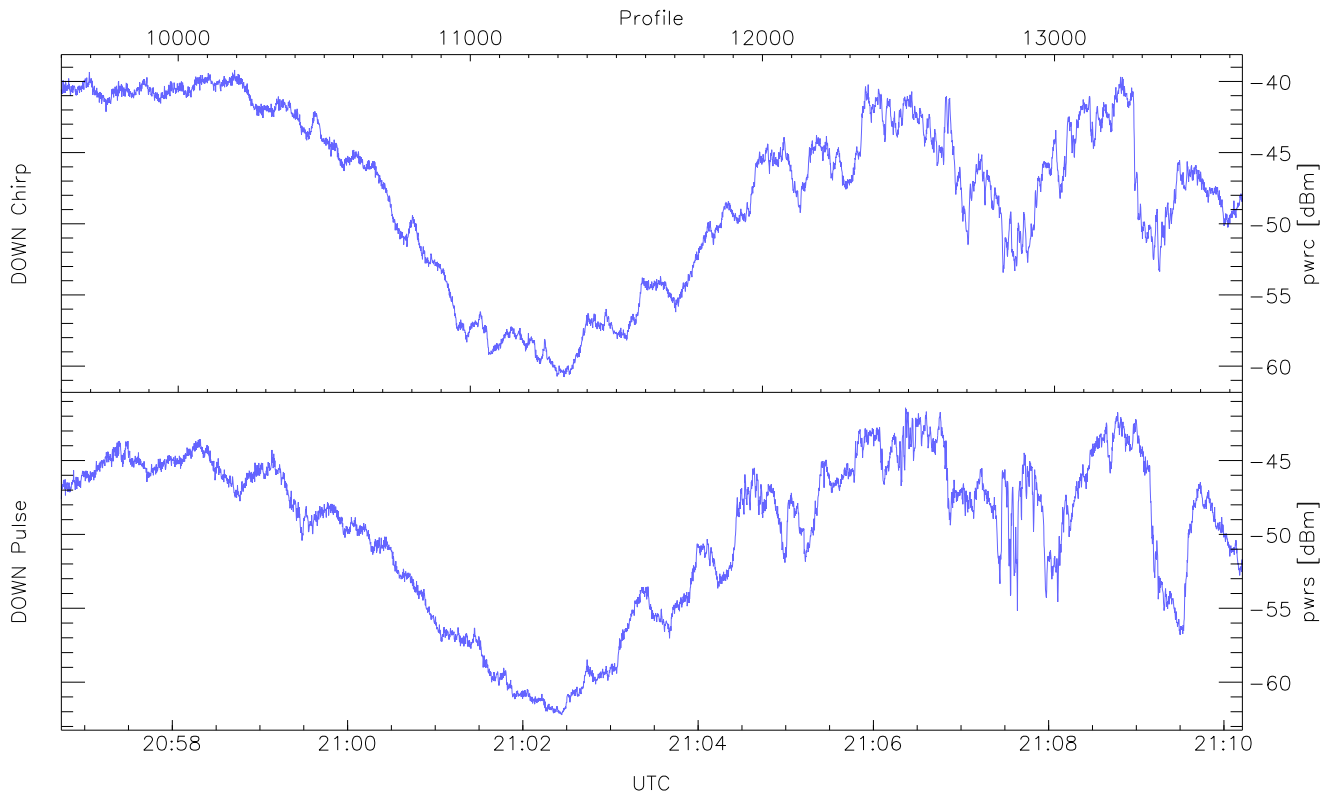
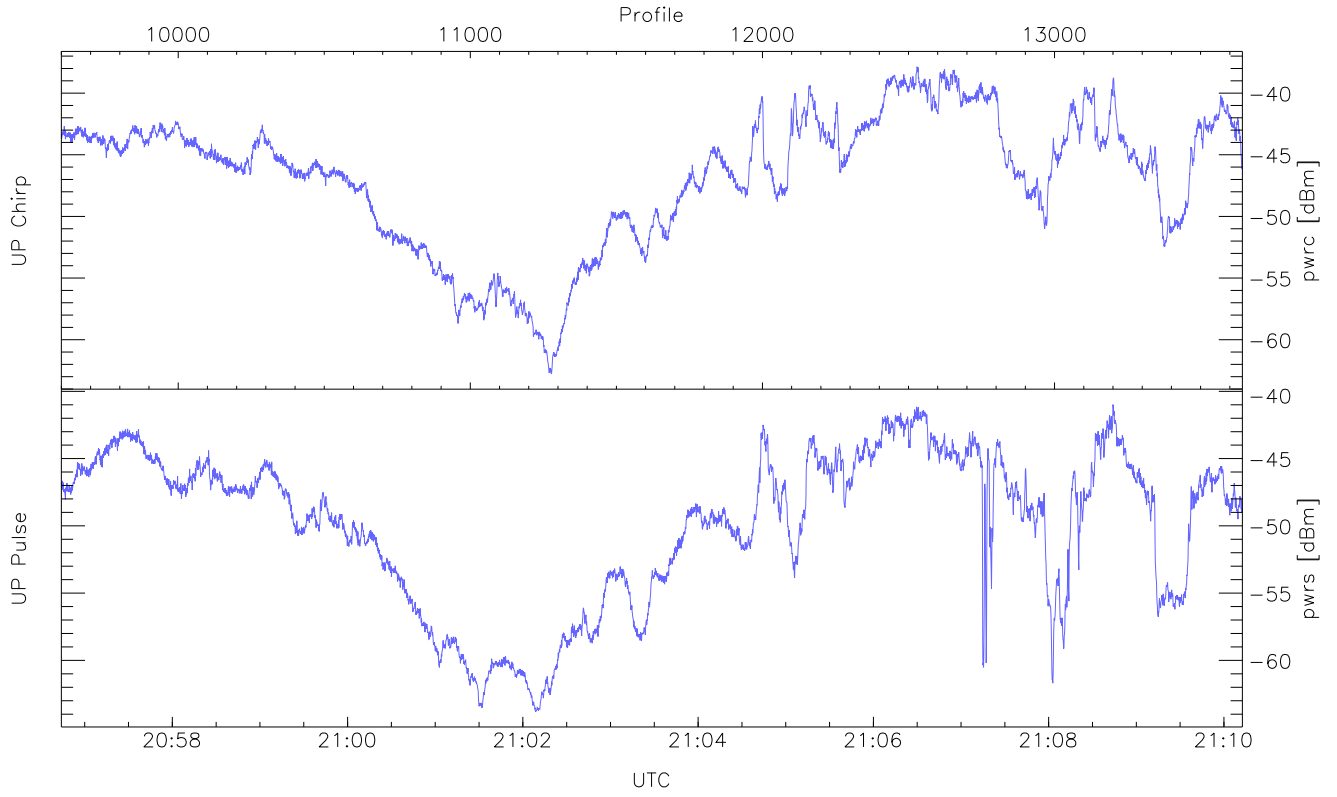


KPR SPP Averaged PP magnitude for all recorded gates
blue: 205644-210328, 2023 profiles averaged
red: 210328-211013, 2022 profiles averaged



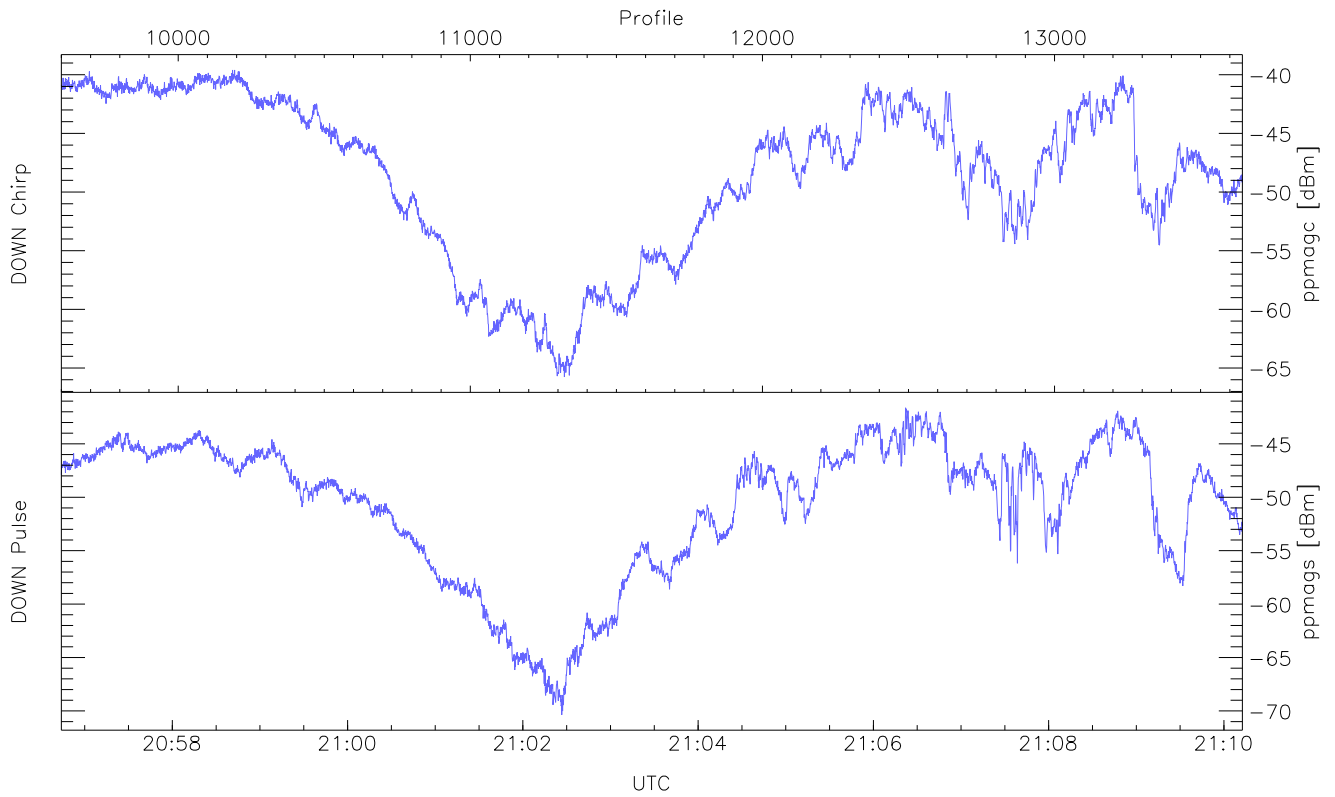
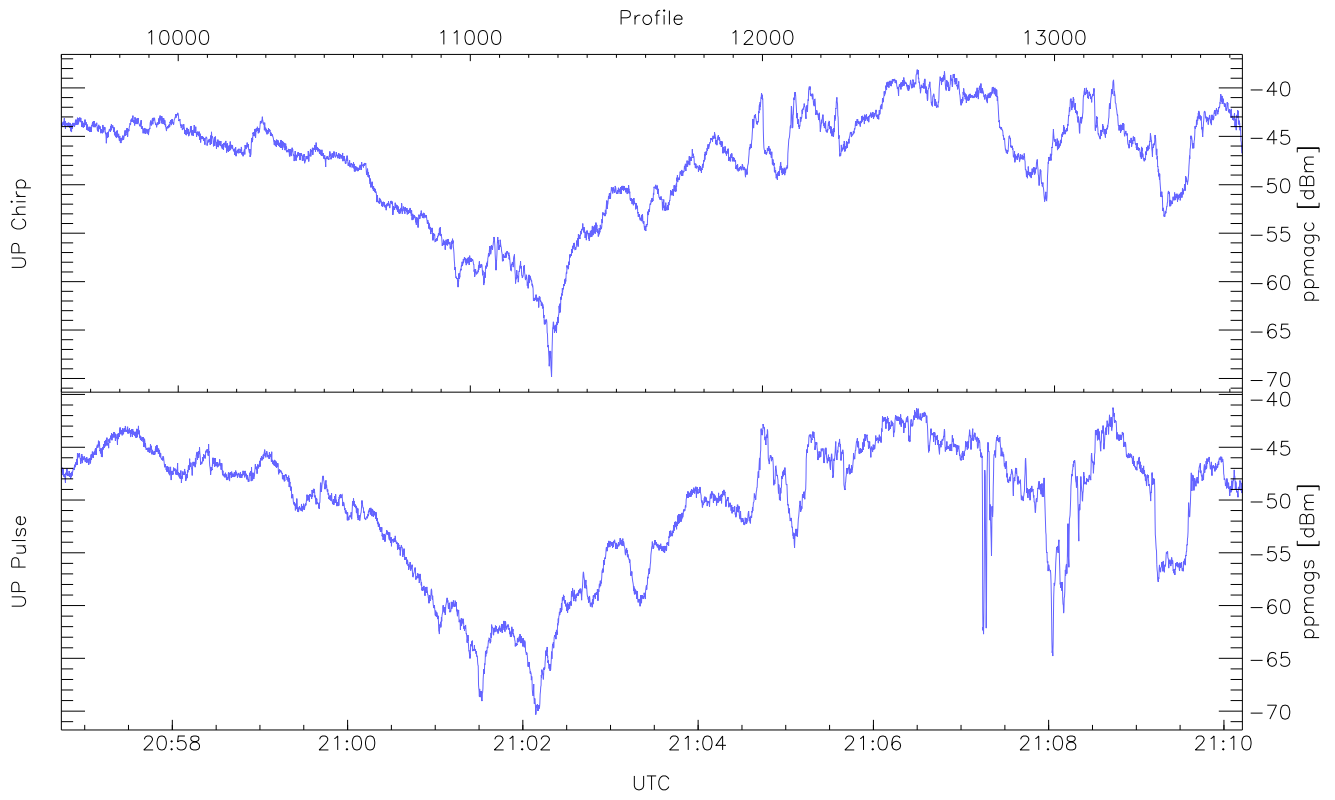
KPR SPP "Best" PPVEL noise (m/s):

	Min	Max	Mean	Median	StDev
UP_C_RM_0	-42.01	42.03	-0.61	-0.60	24.34
UP_P_RG378_0	-42.05	42.00	-0.00	0.35	22.67
DOWN_C_RG377_0	-42.05	42.06	0.20	-0.34	24.32
DOWN_P_RG361_0	-42.03	42.06	0.06	-0.40	23.16



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

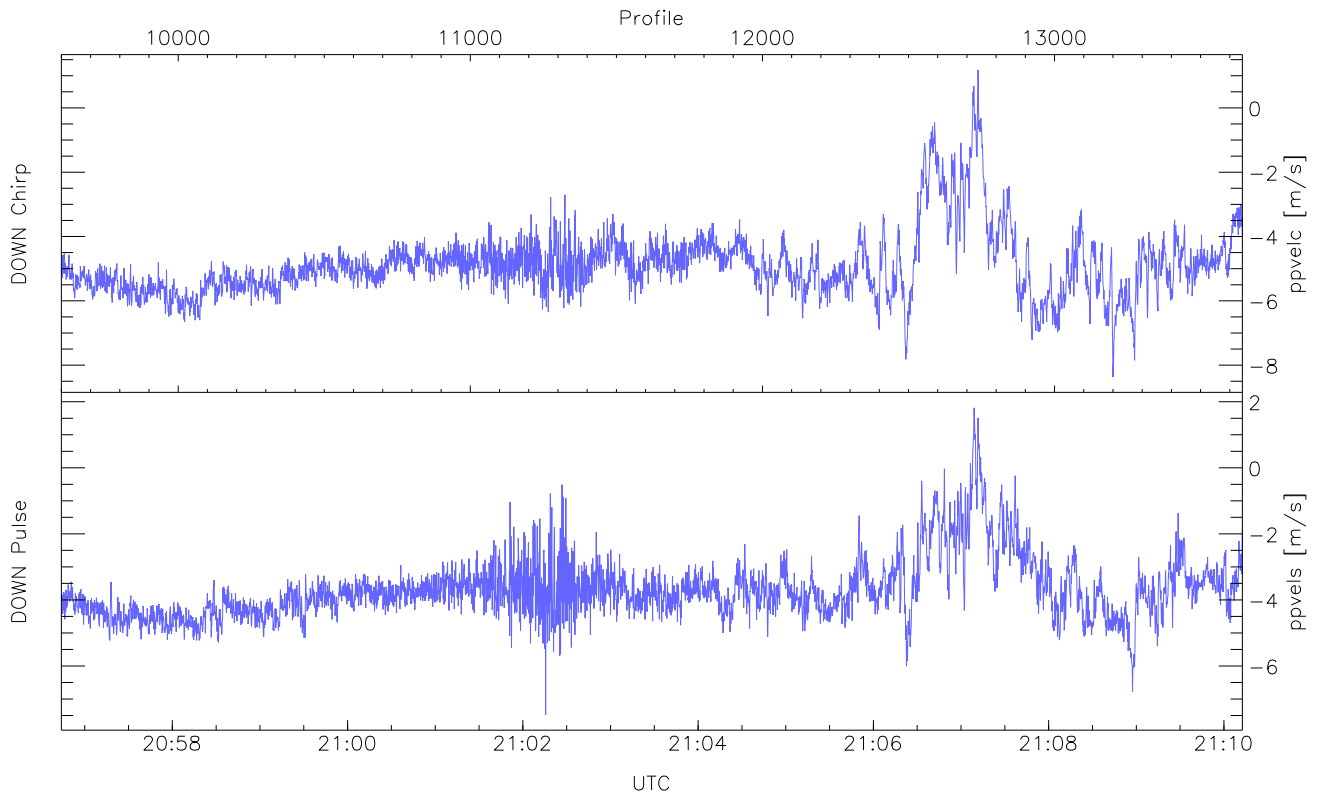
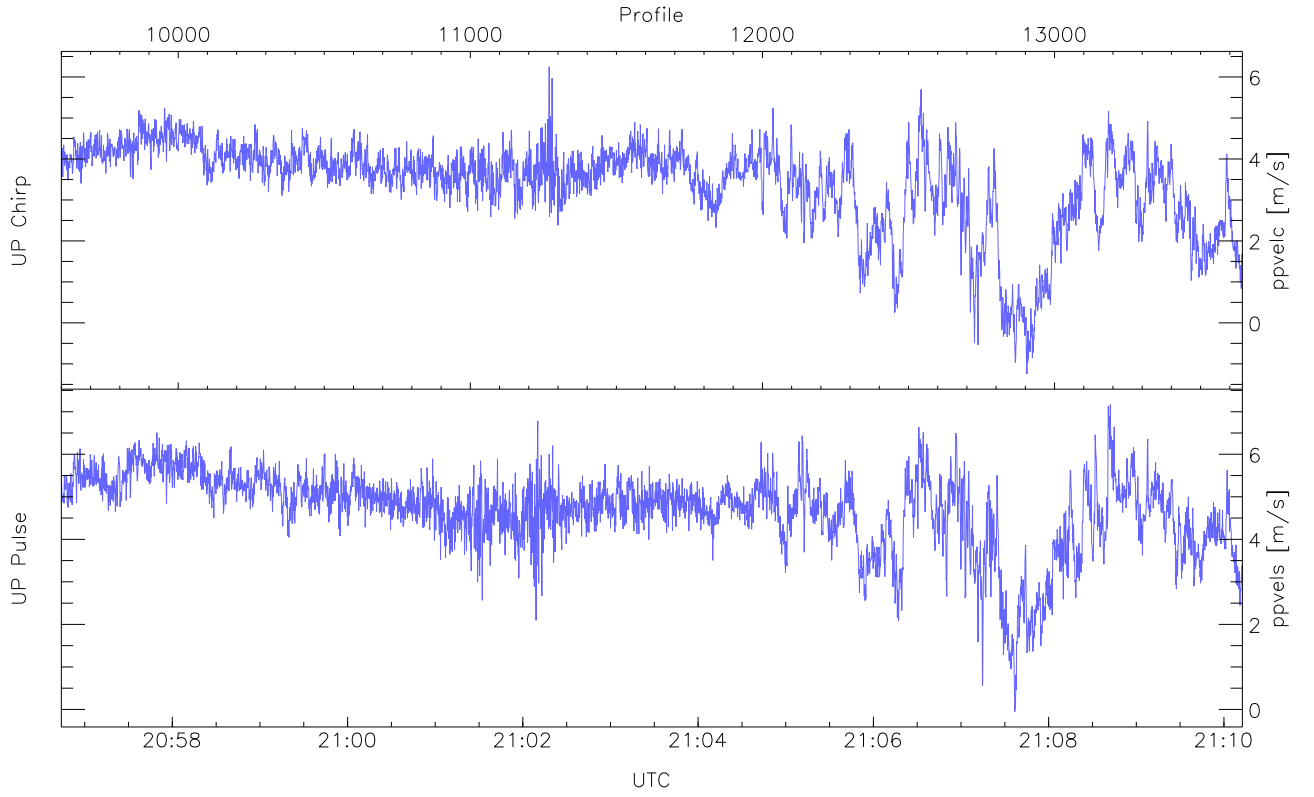
	Min	Max	Mean
UP Chirp(dBm)	-62.77	-37.86	-44.45
UP Pulse(dBm)	-63.81	-40.98	-47.40
DOWN Chirp(dBm)	-60.77	-39.19	-44.64
DOWN Pulse(dBm)	-62.21	-41.43	-47.57



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

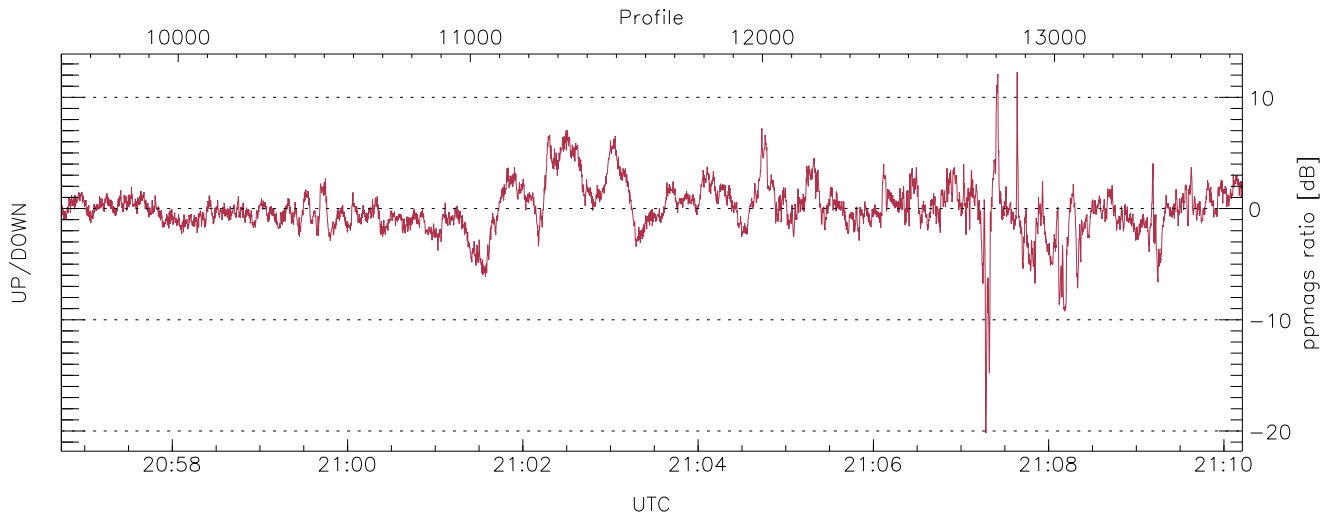
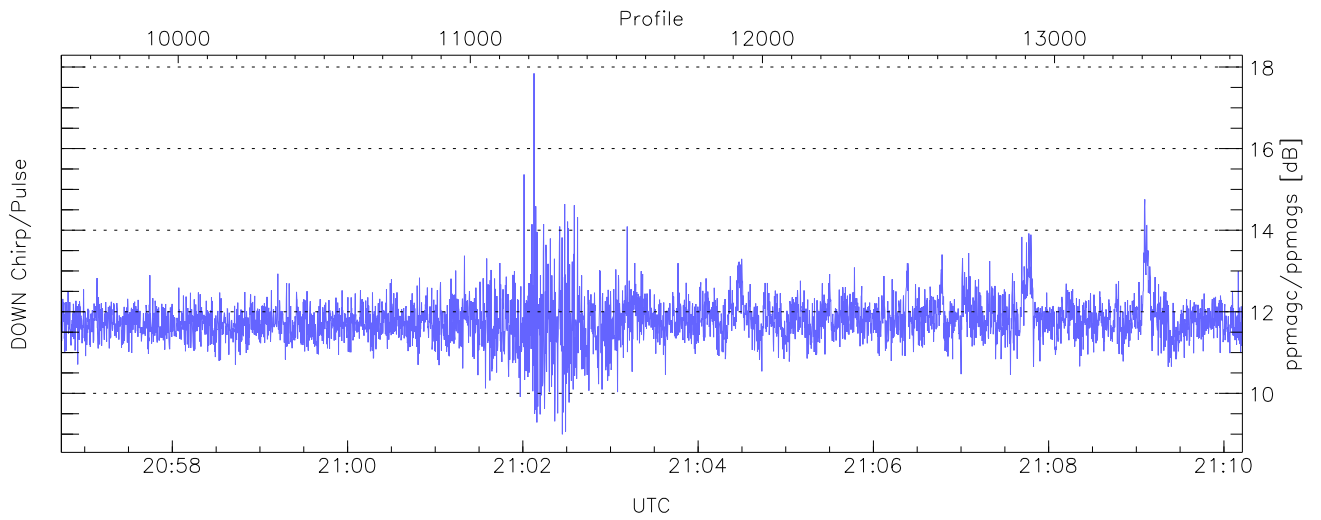
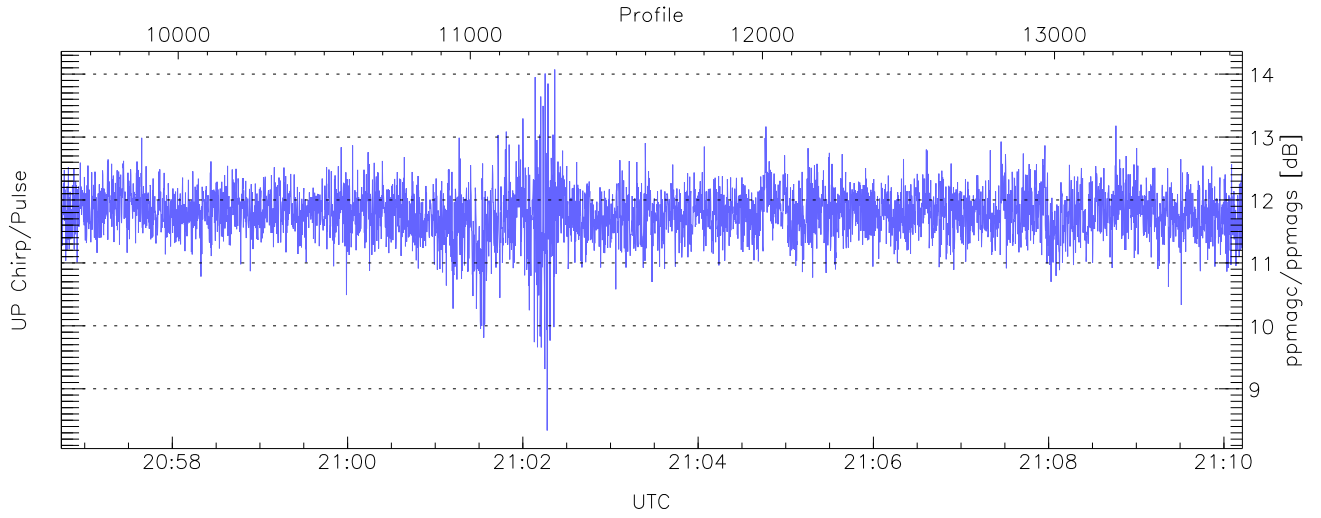
KPR SPP PPMAG for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-69.83	-38.13	-44.93
UP Pulse(dBm)	-70.33	-41.24	-47.71
DOWN Chirp(dBm)	-65.77	-39.59	-45.11
DOWN Pulse(dBm)	-70.37	-41.62	-47.91



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)	-1.24	6.25	3.38
UP Pulse(m/s)	-0.05	7.17	4.68
DOWN Chirp(m/s)	-8.37	1.18	-4.88
DOWN Pulse(m/s)	-7.48	1.82	-3.69



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

	Min	Max	Mean
UP Chirp/Pulse(dBm)	8.34	14.07	11.80
DOWN Chirp/Pulse(dBm)	9.00	17.85	11.82
UP/DOWN Ratio at Range 135.8 m			
	Min	Max	Mean
UP/DOWN(dB)	-20.19	12.27	0.61