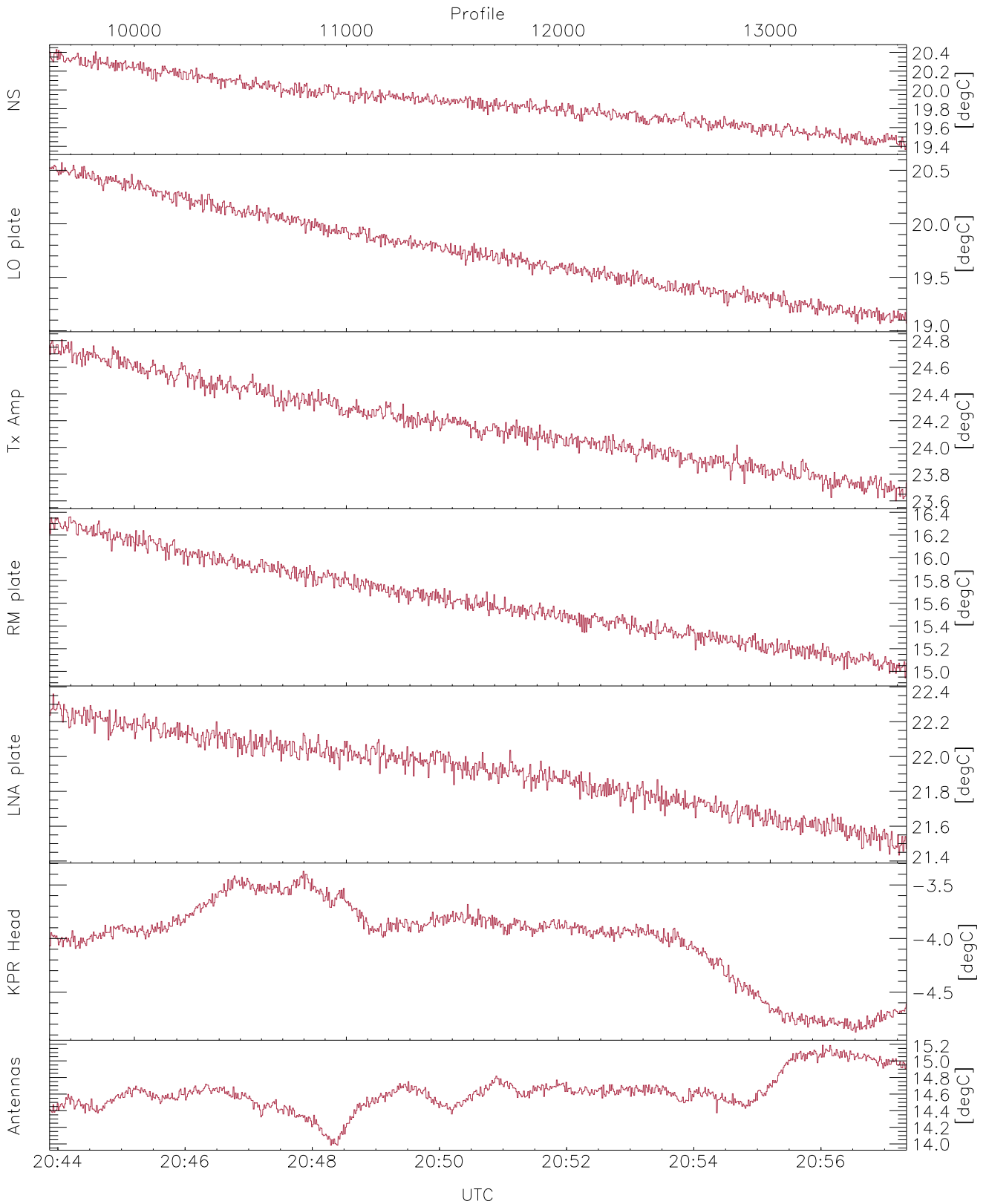


KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF
 UTC: 20:11:52-20:57:21, TimeCor: 0.00s, Dur: 808.60s
 TimeInt(min,max,mn,std): 193.1,206.9,200.0,0.3 ms; PPS: 5.0
 NumRec(r/t): 4044/13644, 9600-13643/20:43:52-20:57:21
 AcqTime(req,actual): 200.0,200.0 ms, Data Rate: 187.6 KB/s
 Pulse: 247 ns, Chirp: 2.47 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

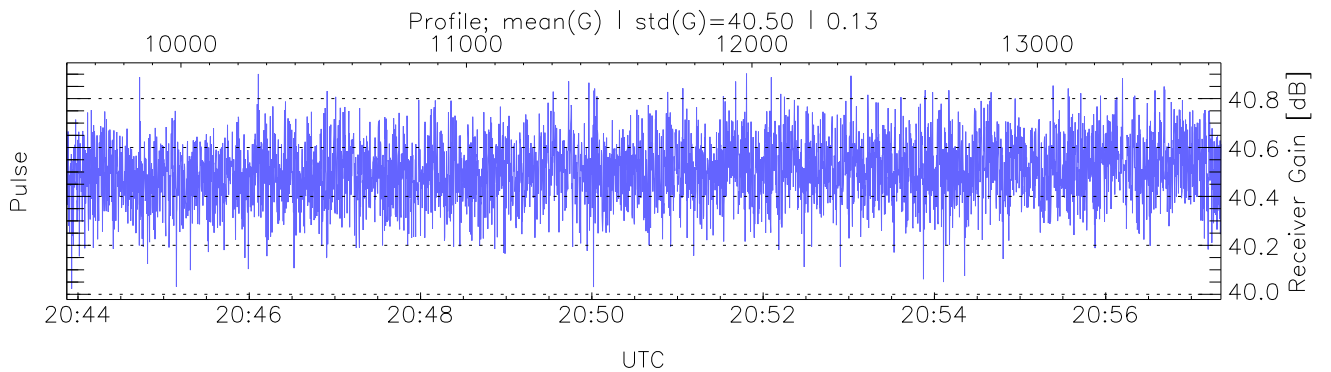
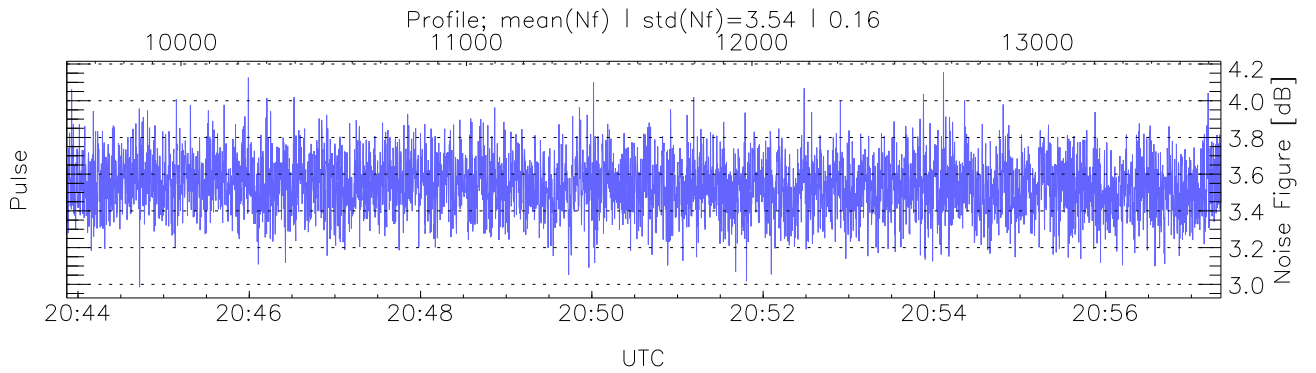
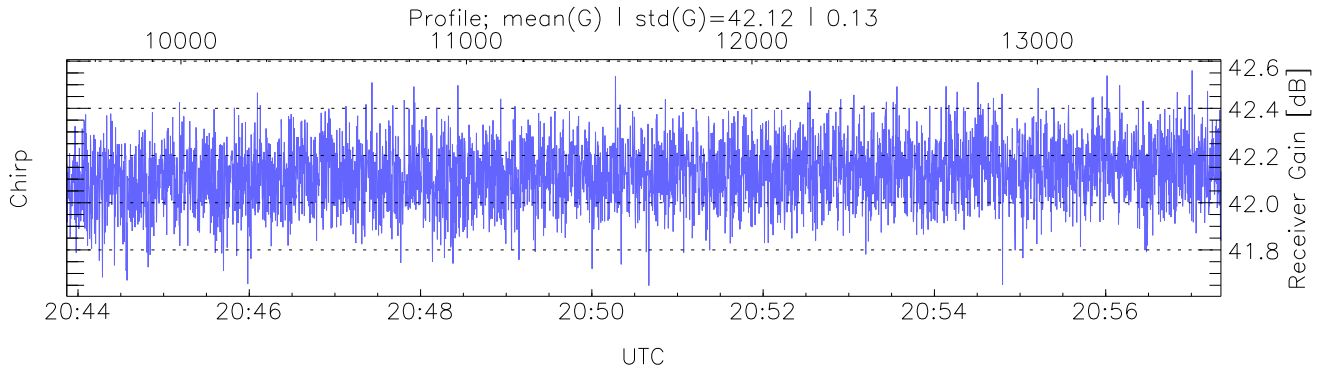
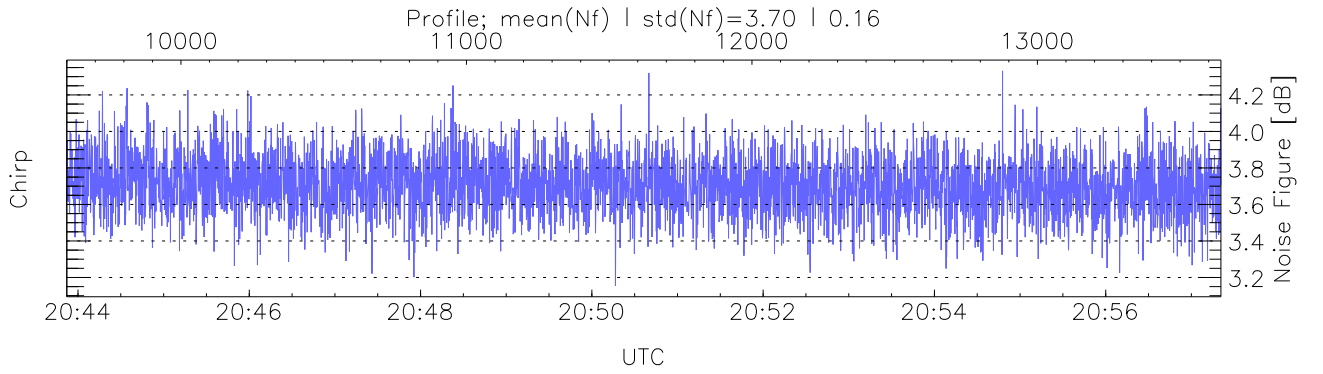


KPR SPP Temperatures, Power Supplies, PLO lock:

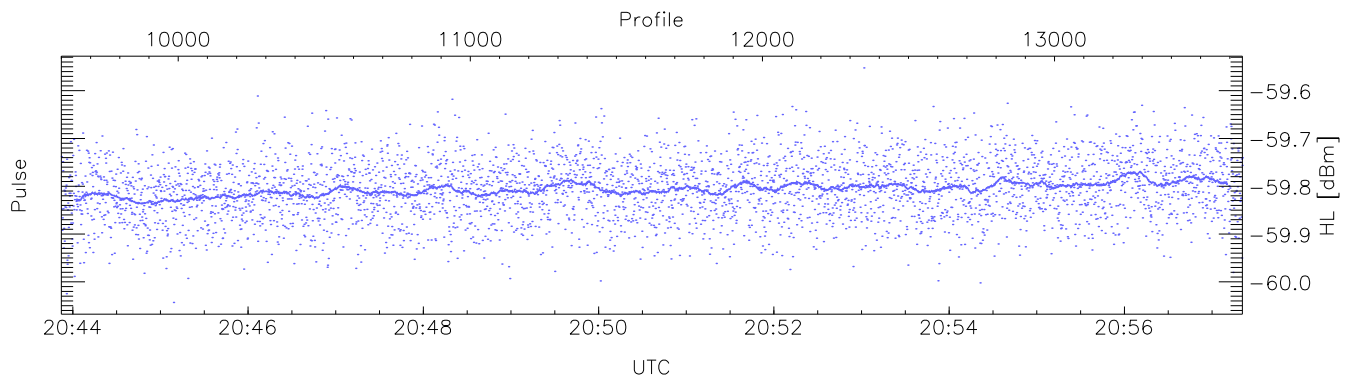
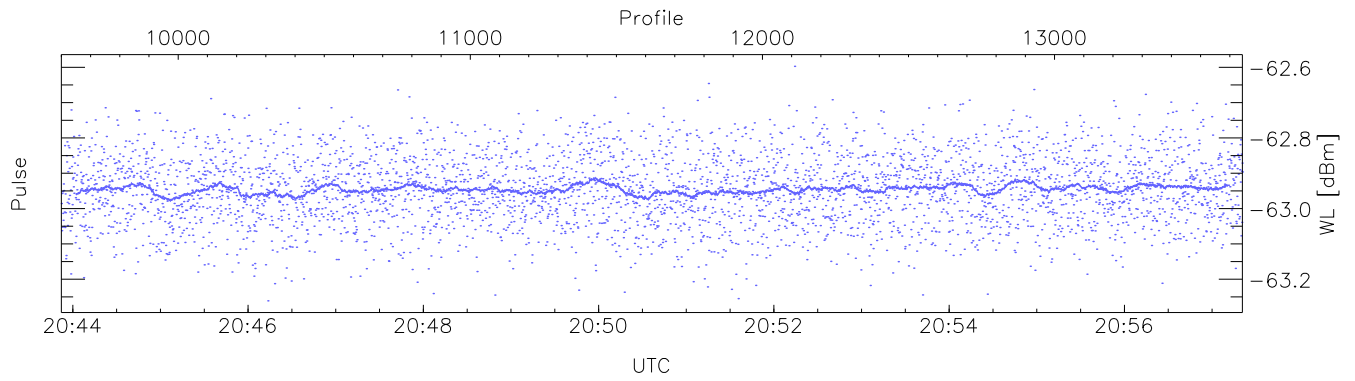
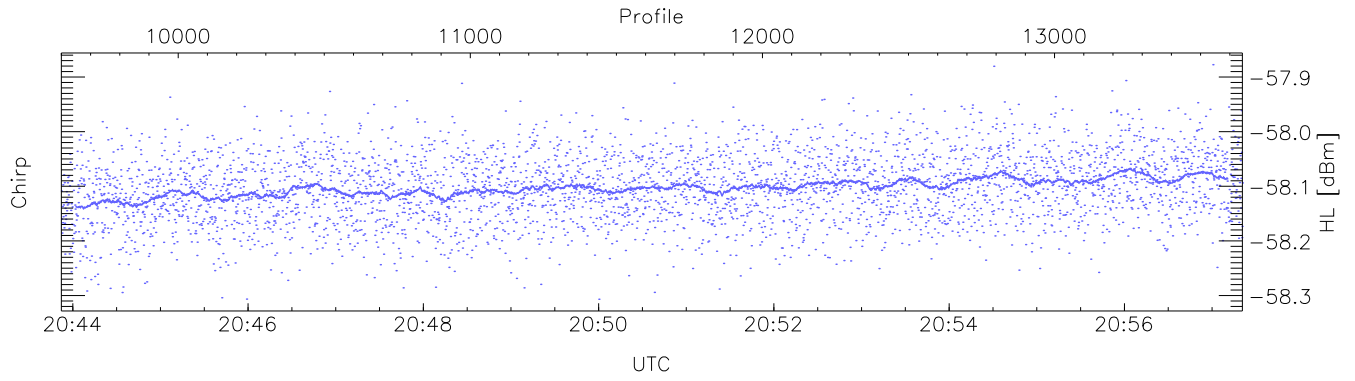
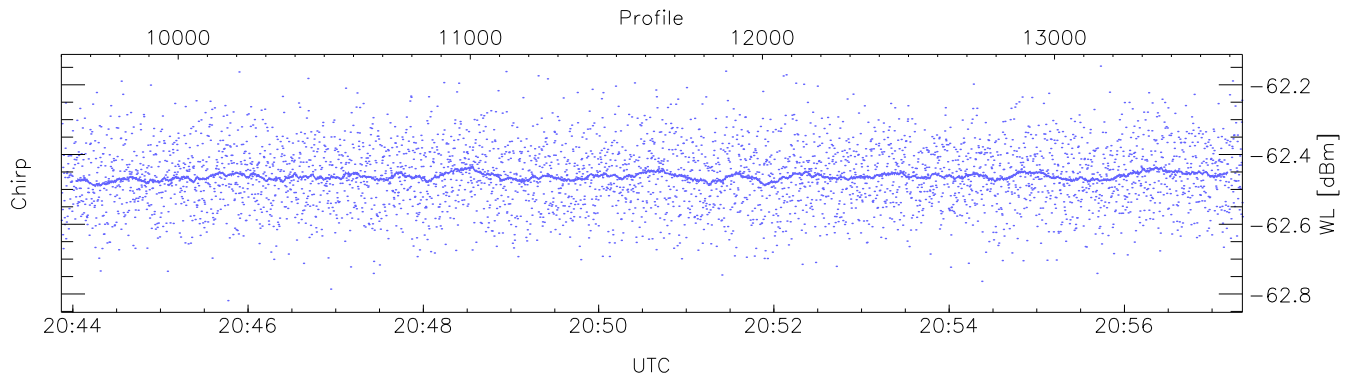
temperature:	NS,	LO,	Tx,	RM,	LNA,	Head,	Ant
mintempC:	19.4,	19.1,	23.6,	14.9,	21.4,	-4.9,	14.0
maxtempC:	20.4,	20.6,	24.8,	16.4,	22.4,	-3.4,	15.2
meantempC:	19.9,	19.7,	24.2,	15.6,	21.9,	-4.0,	14.6

PwrSply:	28,	12,	8,	5 VDC
minVDC:	25.79,	11.68,	7.87,	5.21
maxVDC:	27.79,	11.73,	7.90,	5.23
meanVDC:	26.97,	11.71,	7.88,	5.22

PLO(3.84,15.84 GHz) unlocked: None

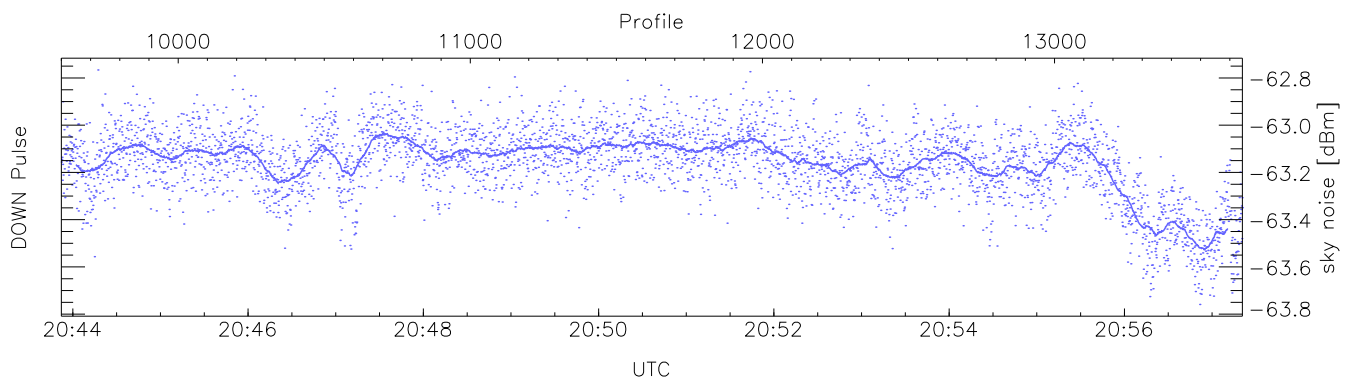
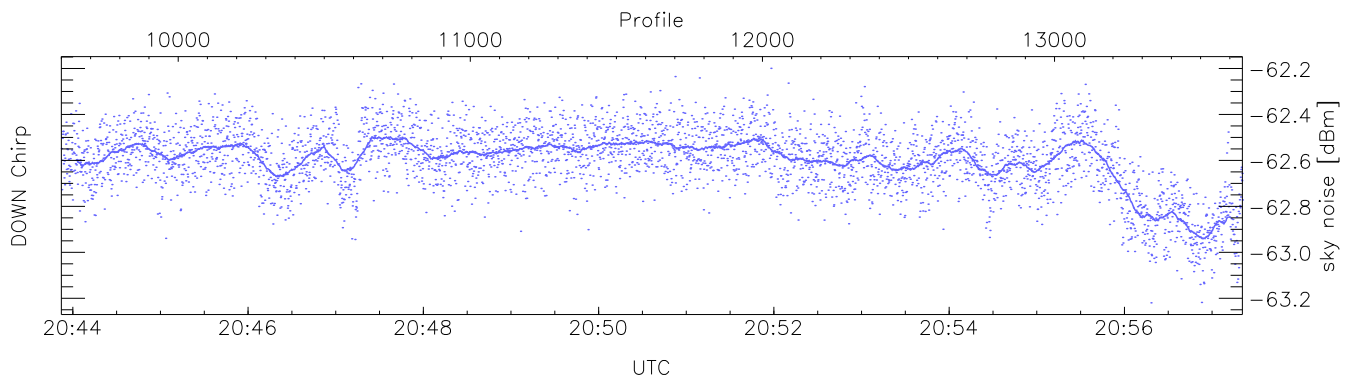
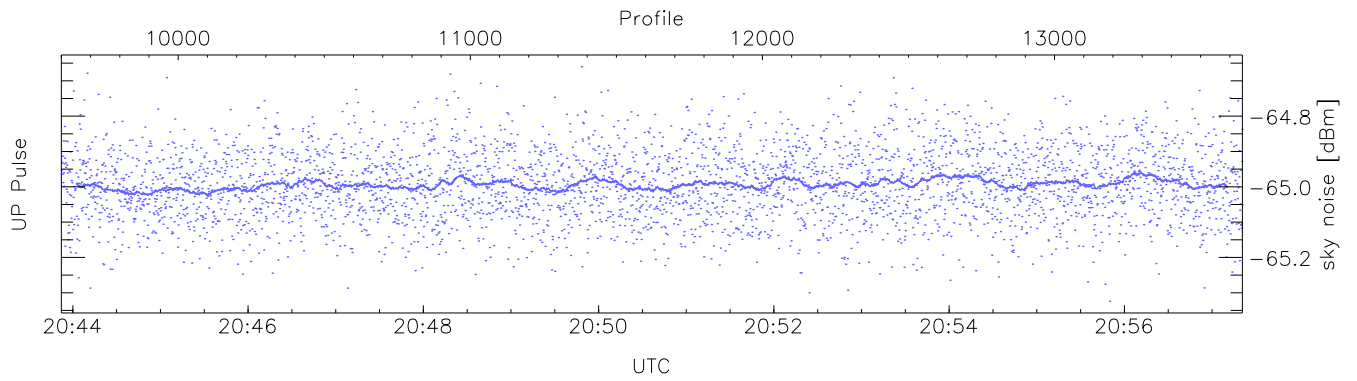
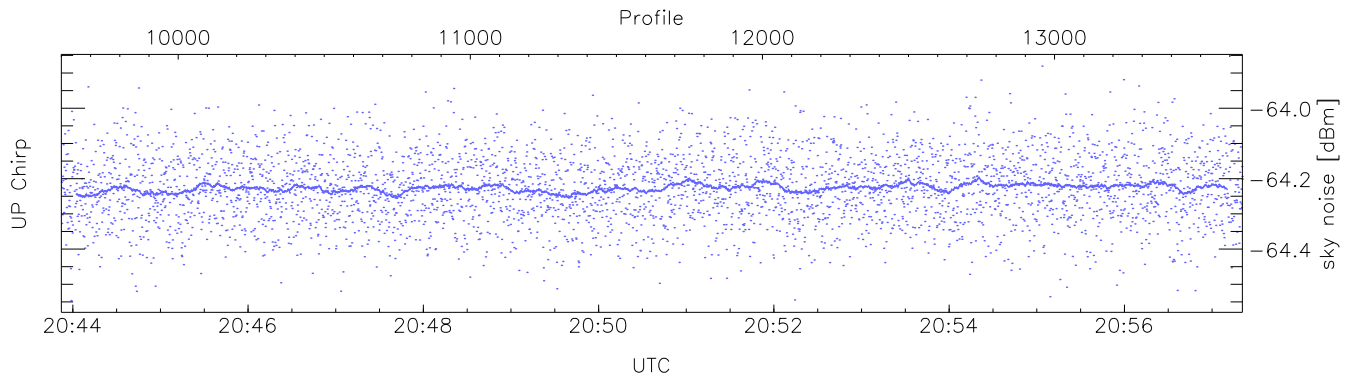


KPR SPP Receiver Gain and Noise Figure



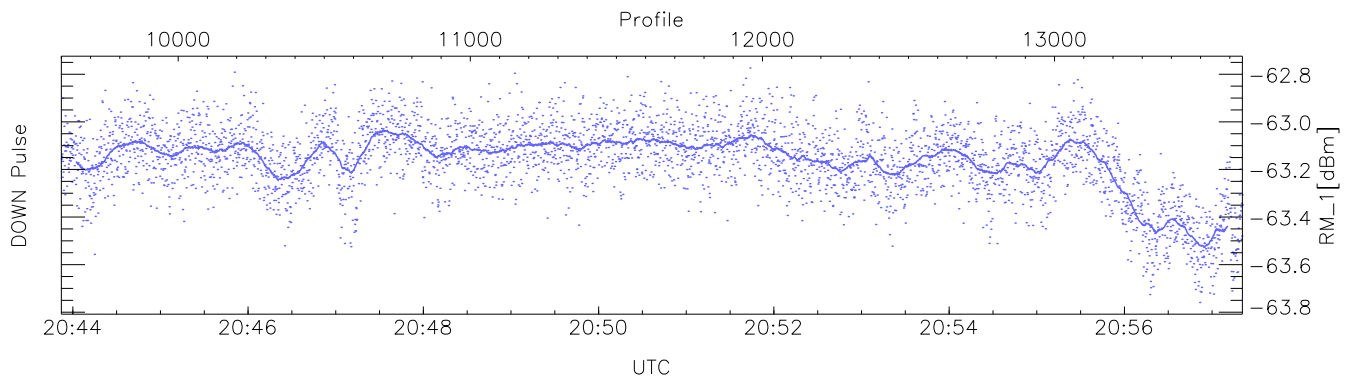
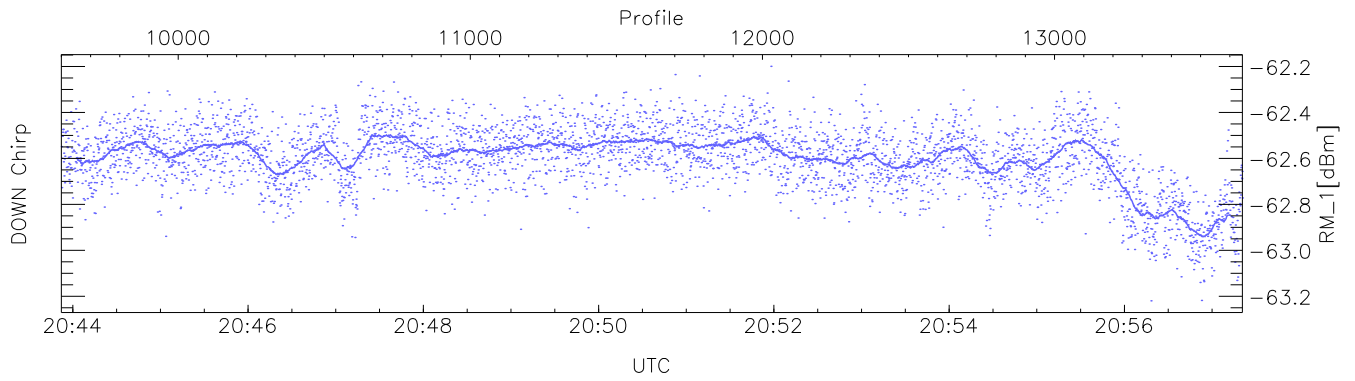
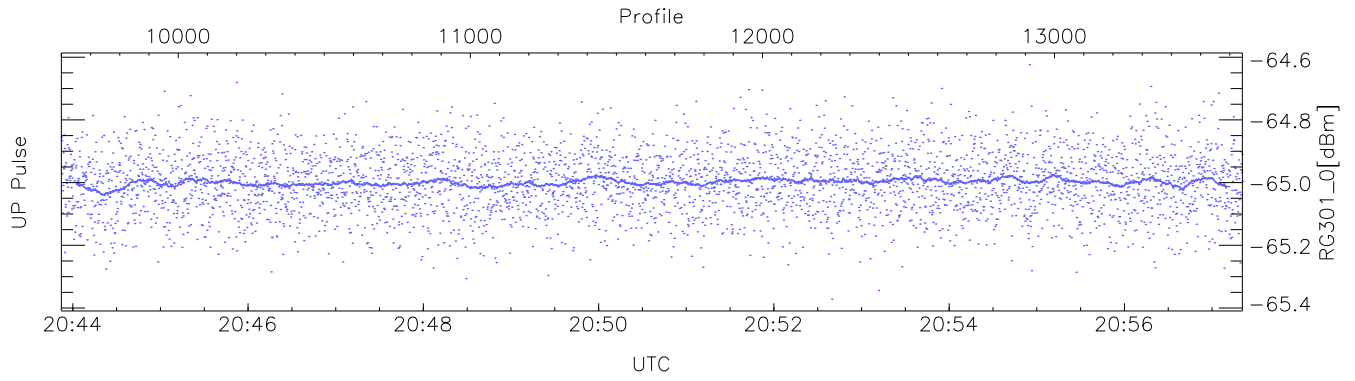
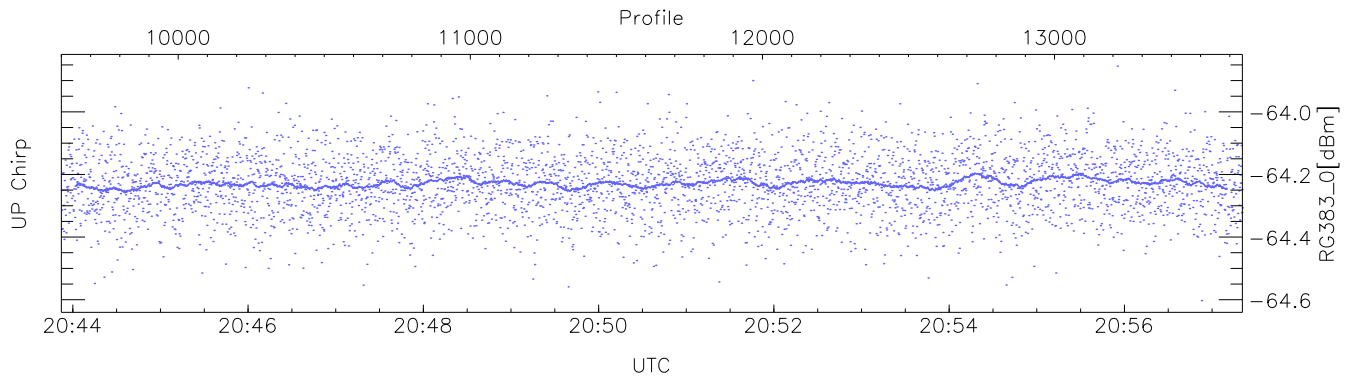
KPR SPP Receiver Noise Source Warm and Hot Measurements:

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-62.82	-62.15	-62.46	-62.46	-79.00
Chirp(HL [dBm])	-58.31	-57.88	-58.10	-58.10	-76.63
Pulse(WL [dBm])	-63.26	-62.60	-62.95	-62.95	-79.48
Pulse(HL [dBm])	-60.04	-59.55	-59.81	-59.81	-78.27



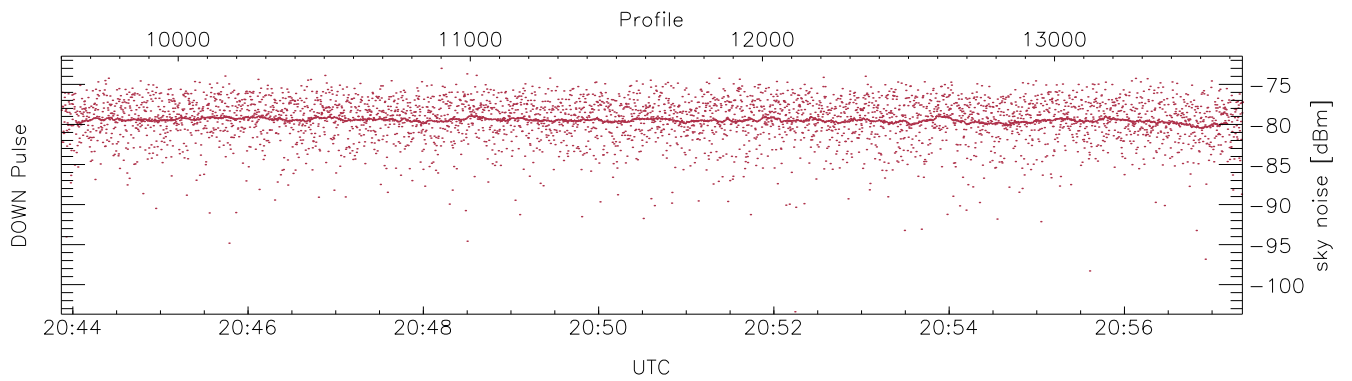
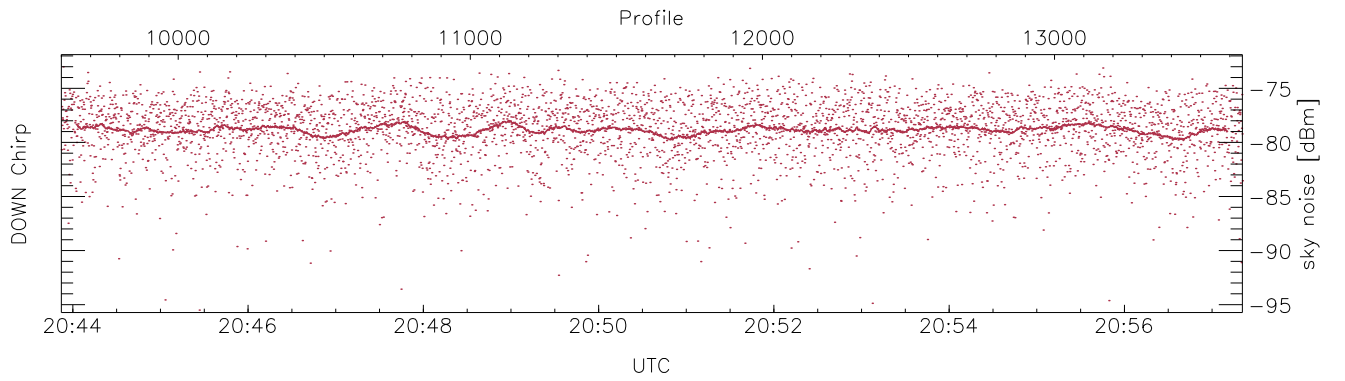
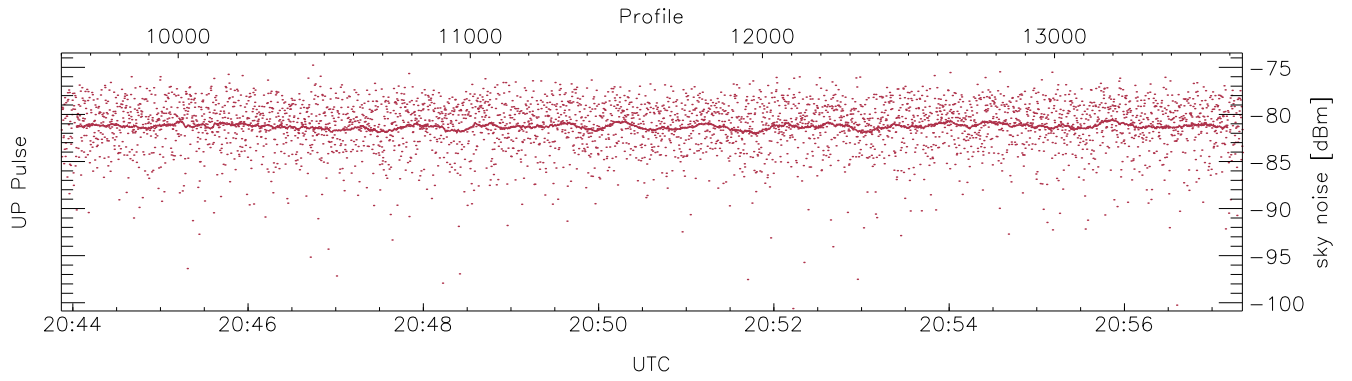
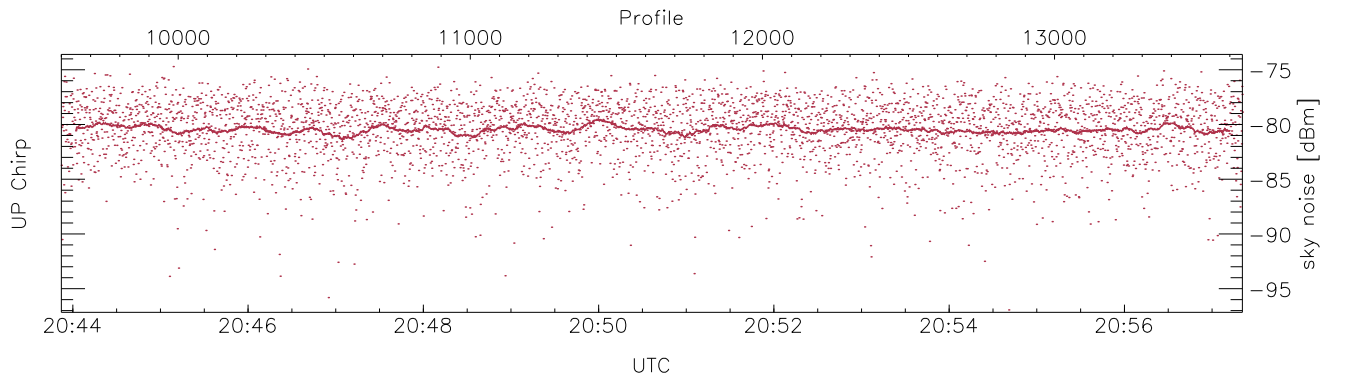
KPR SPP Last range gate power measurements: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-64.55	-63.88	-64.23	-64.23	-80.74
UP Pulse(dBm)	-65.32	-64.66	-64.99	-65.00	-81.50
DOWN Chirp(dBm)	-63.22	-62.20	-62.60	-62.59	-77.52
DOWN Pulse(dBm)	-63.76	-62.77	-63.16	-63.15	-77.83



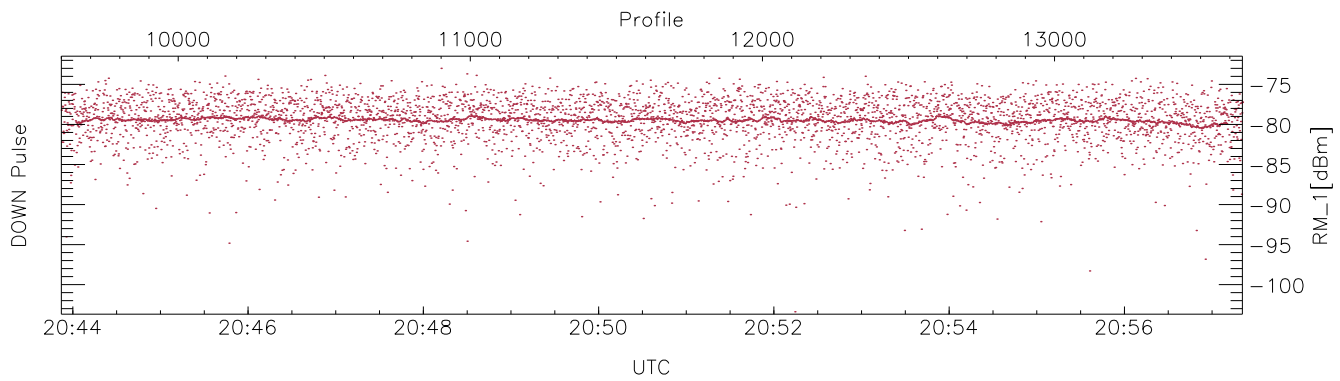
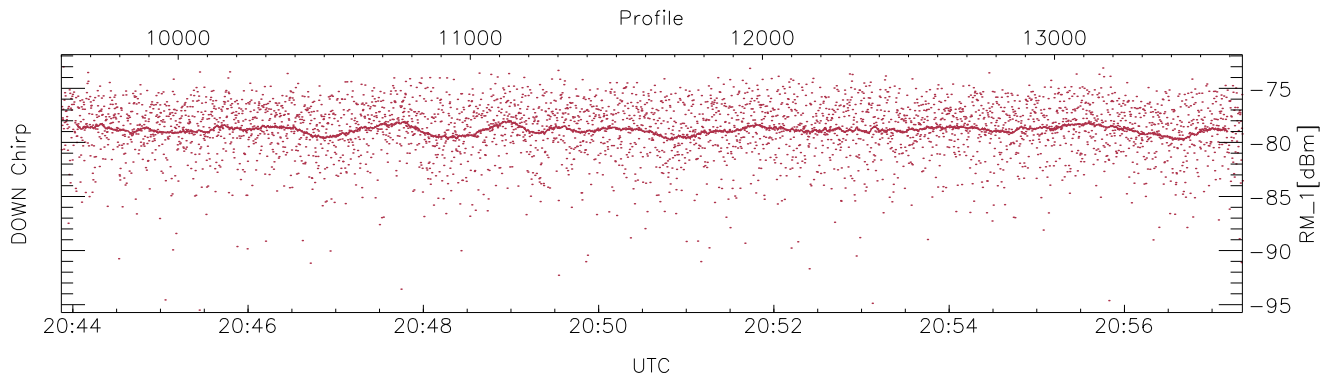
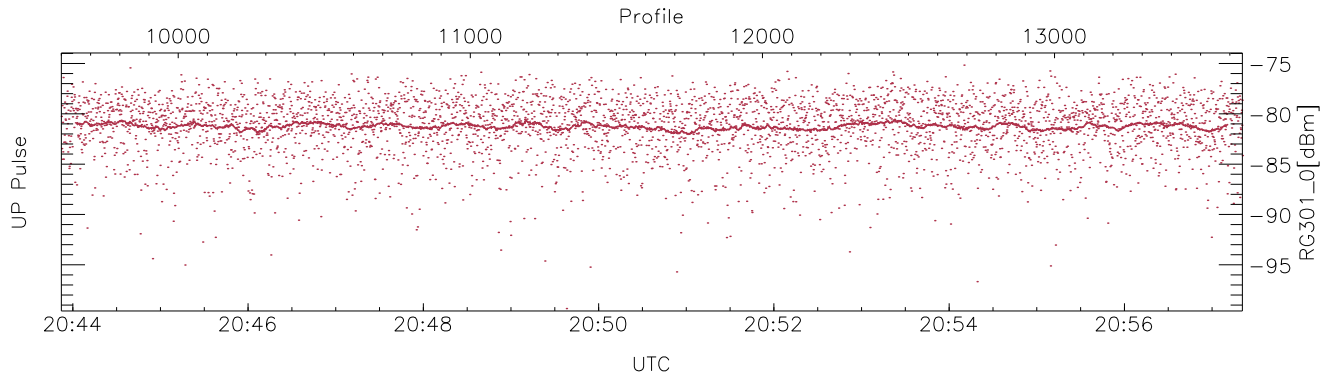
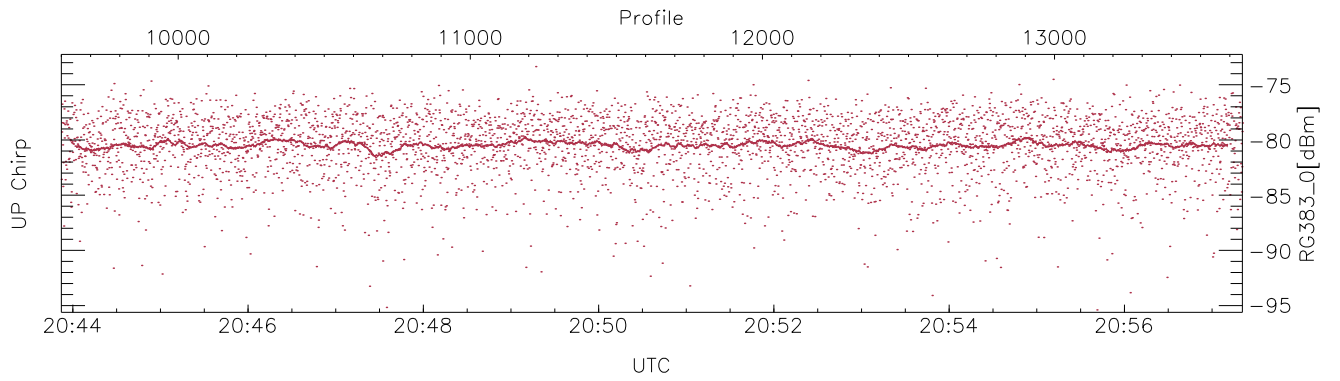
KPR SPP "Best" noise power measurements (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RG383_0	-64.60	-63.85	-64.23	-64.23	-80.77
UP_P_RG301_0	-65.37	-64.62	-65.00	-65.00	-81.47
DOWN_C_RM_1	-63.22	-62.20	-62.60	-62.59	-77.53
DOWN_P_RM_1	-63.76	-62.77	-63.16	-63.15	-77.83



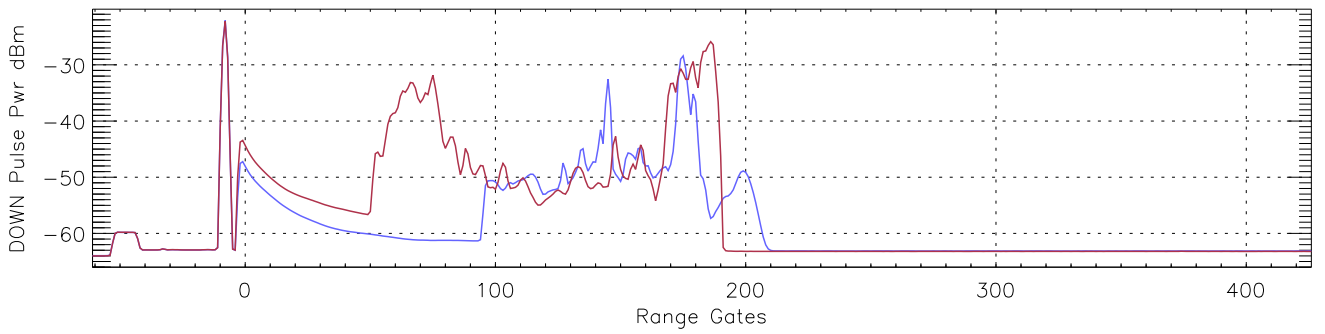
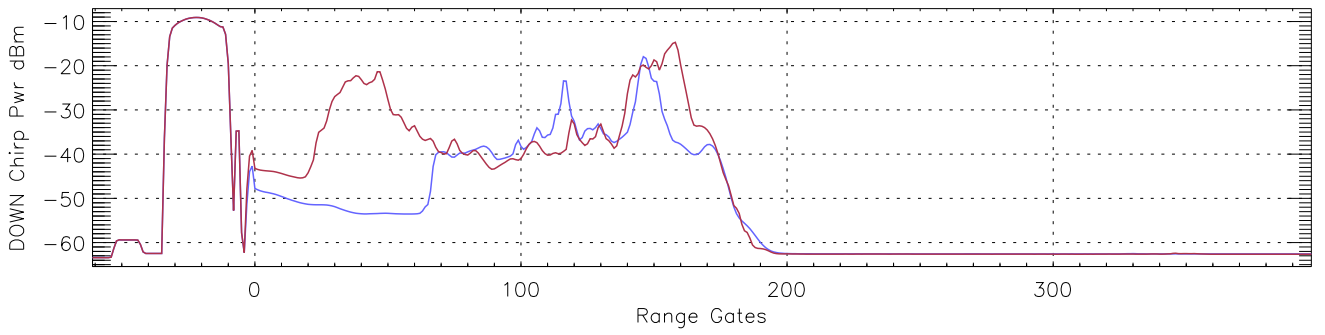
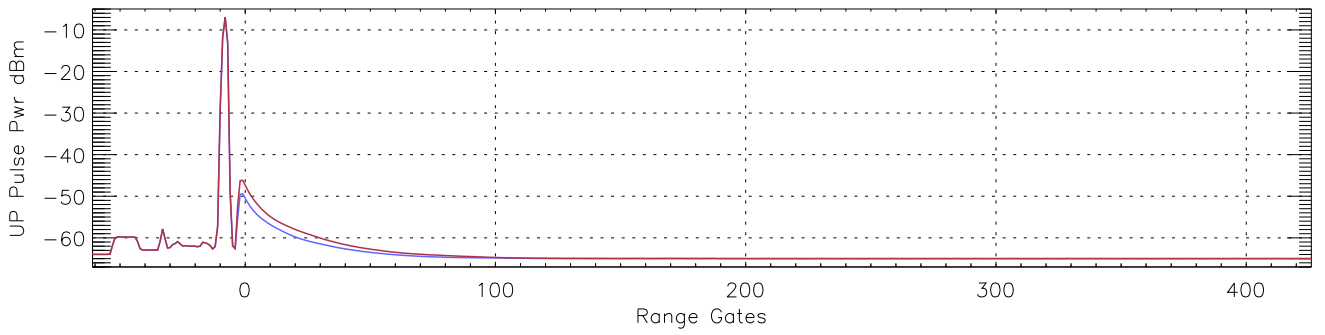
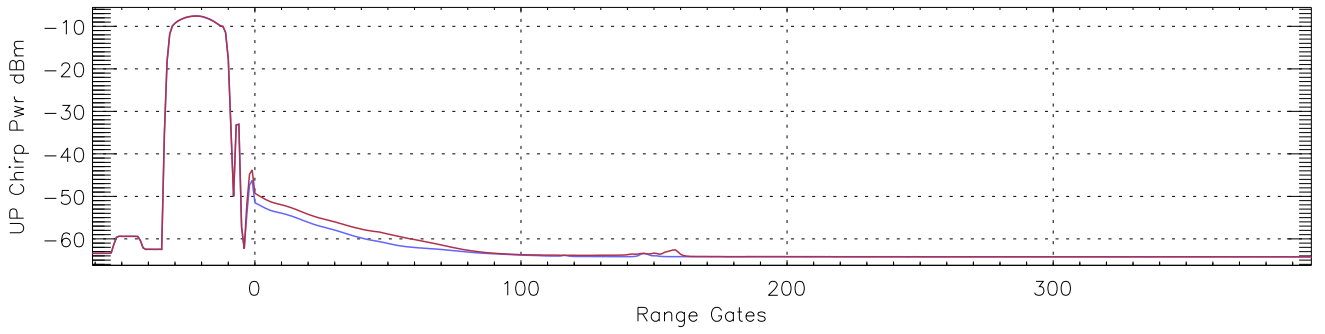
KPR SPP Last range gate PPMAG: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-96.94	-74.71	-79.76	-79.98	-82.62
UP Pulse(dBm)	-100.62	-74.77	-80.54	-80.81	-83.31
DOWN Chirp(dBm)	-95.51	-73.01	-78.14	-78.45	-80.97
DOWN Pulse(dBm)	-103.38	-73.00	-78.74	-79.03	-81.46

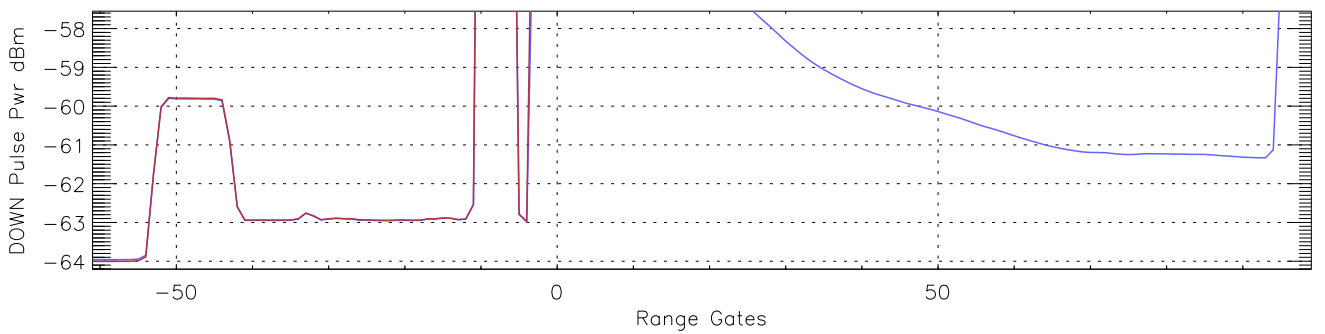
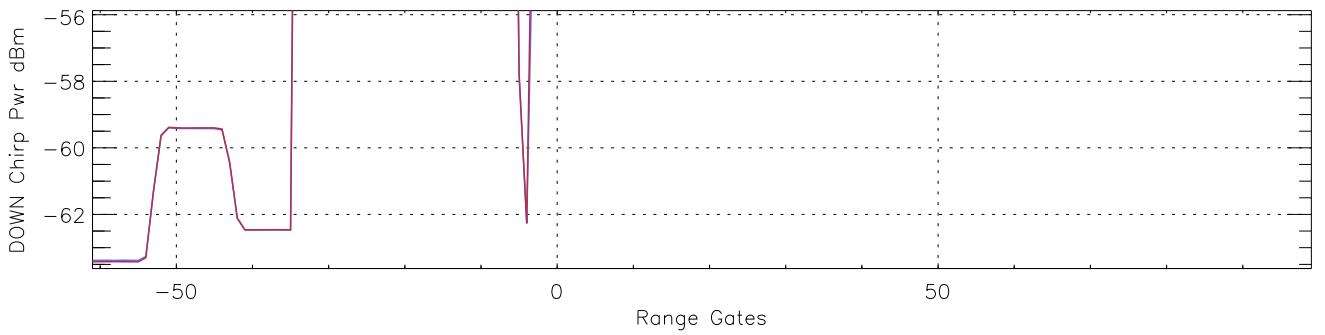
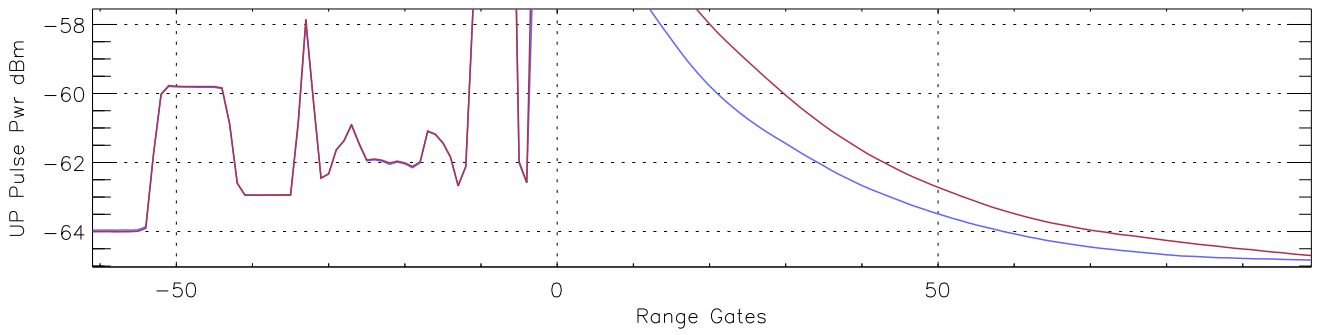
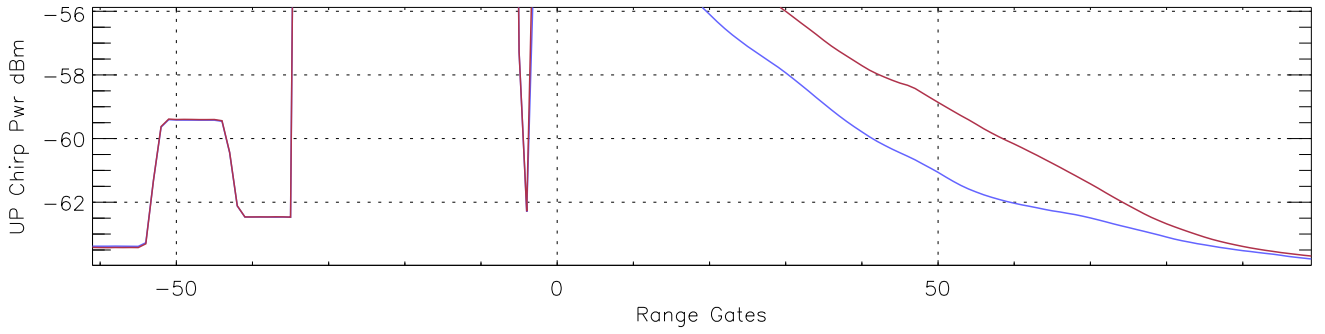


KPR SPP "Best" PPMAG noise (dBm):

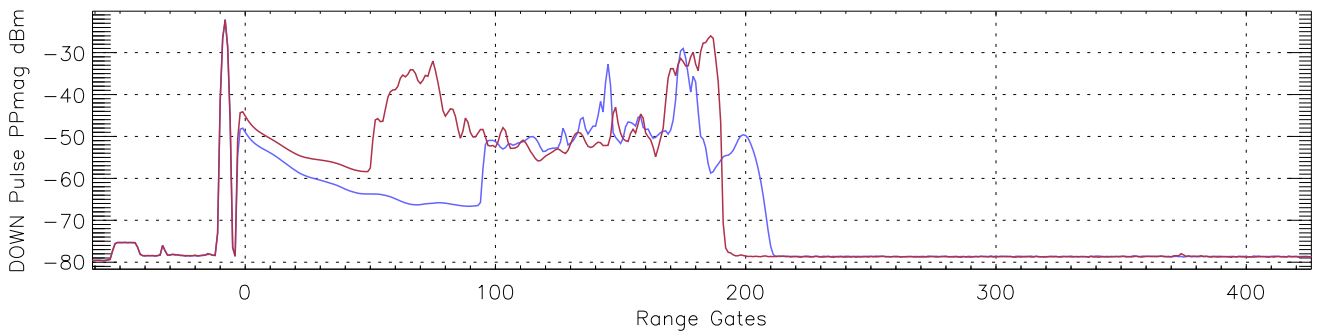
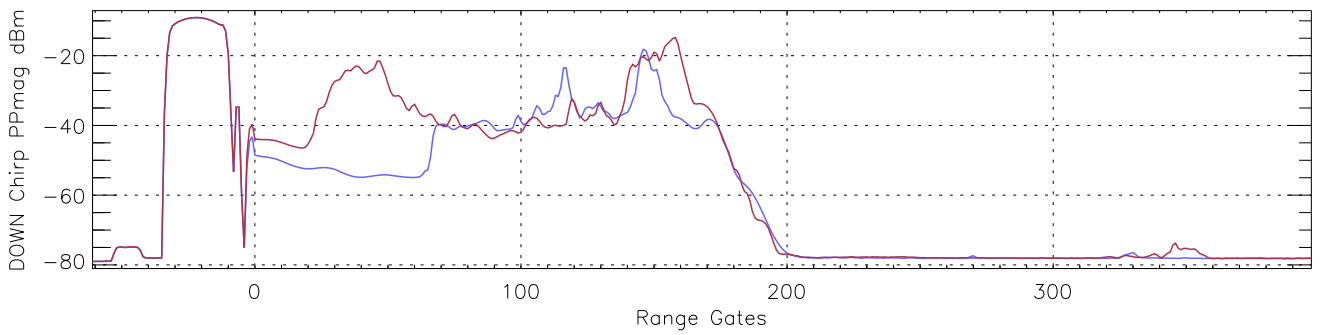
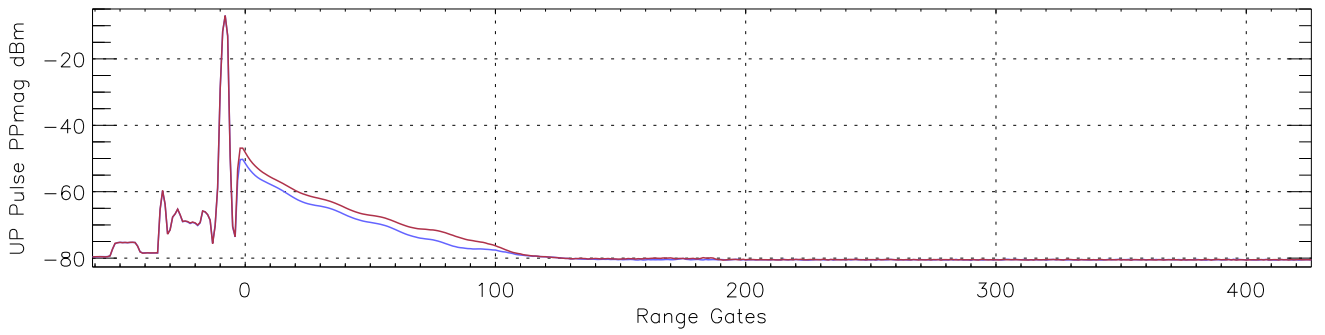
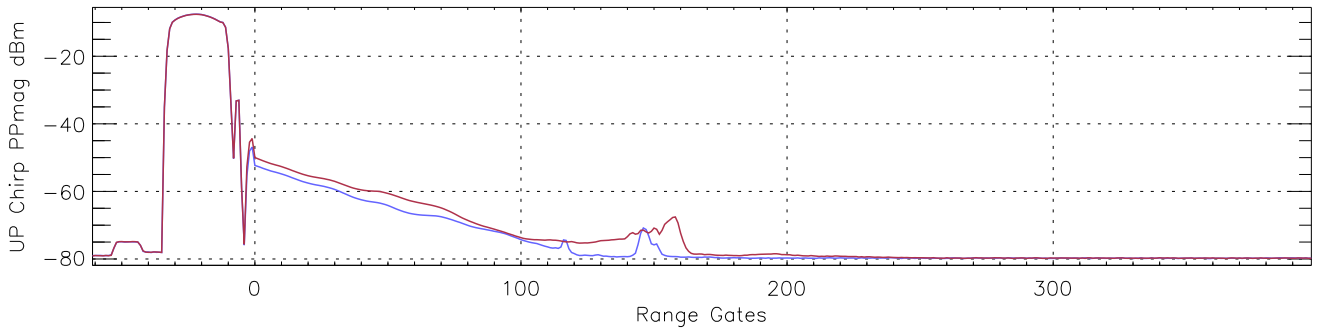
	Min	Max	Mean	Median	StDev
UP_C_RG383_0	-95.39	-73.35	-79.77	-80.02	-82.55
UP_P_RG301_0	-99.34	-75.17	-80.51	-80.76	-83.28
DOWN_C_RM_1	-95.51	-73.01	-78.14	-78.45	-80.97
DOWN_P_RM_1	-103.38	-73.00	-78.74	-79.03	-81.46



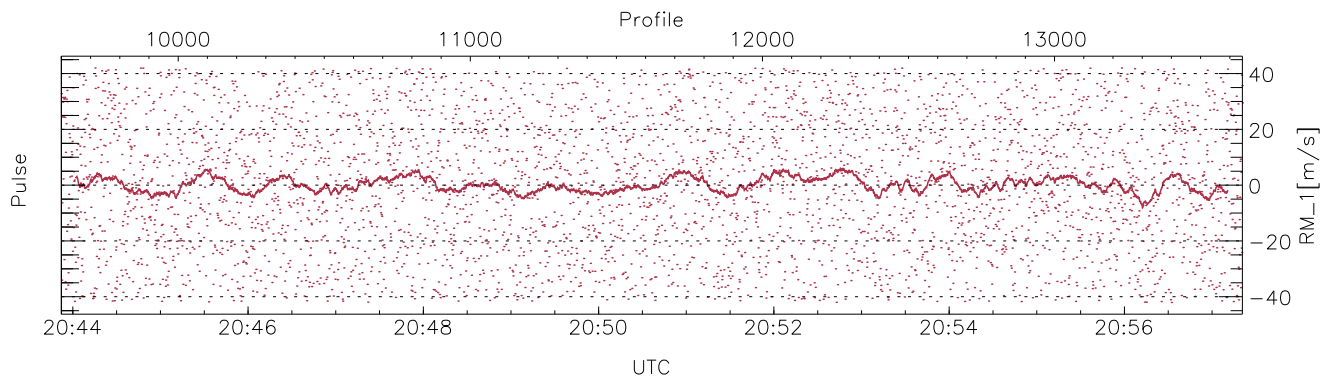
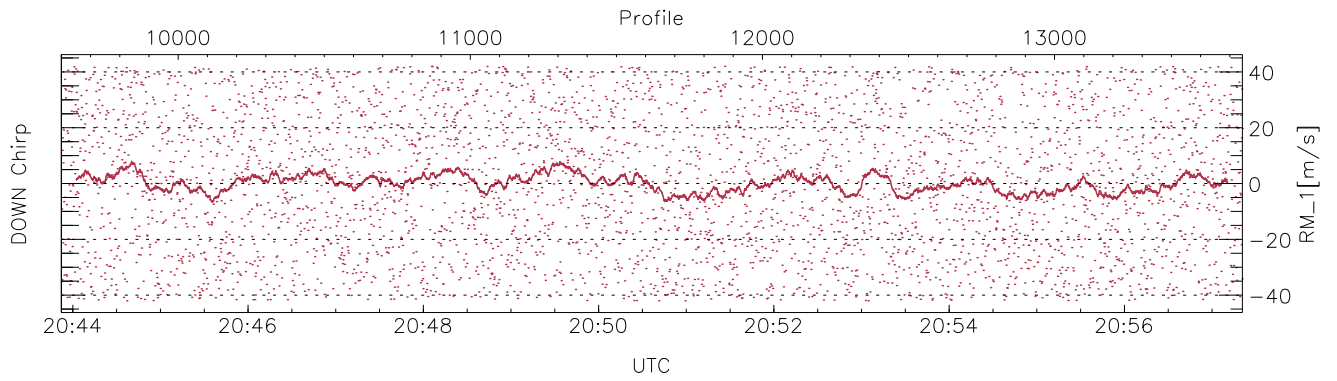
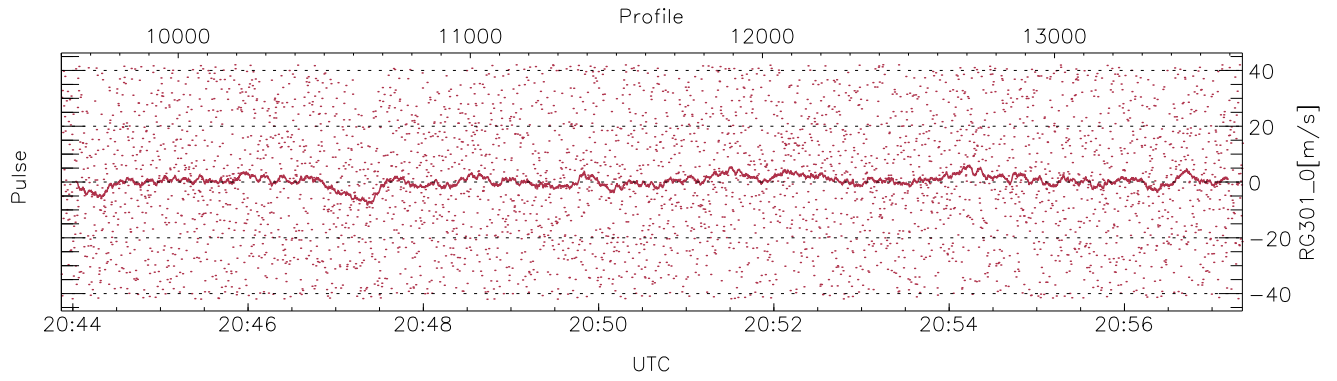
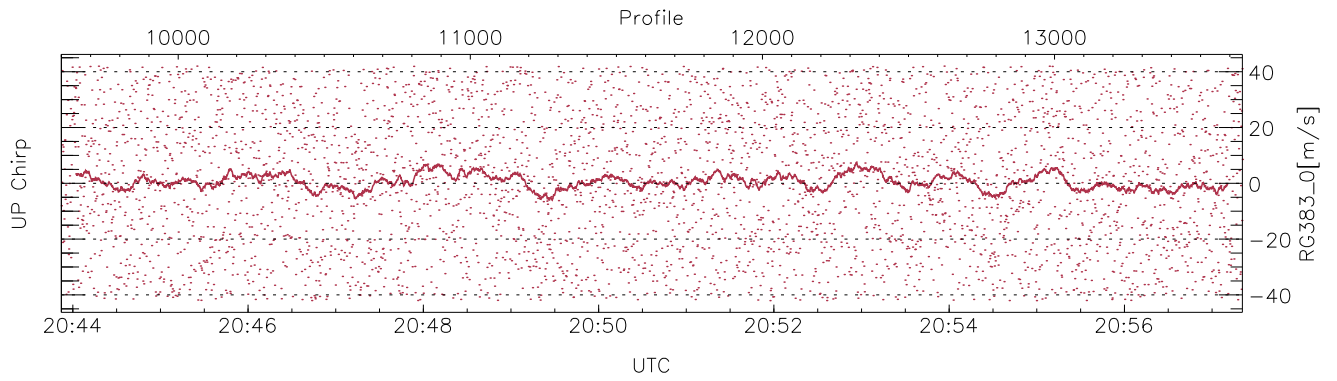
KPR SPP Averaged Received power for all recorded gates
blue: 204352-205036, 2023 profiles averaged
red: 205036-205721, 2022 profiles averaged



KPR SPP Averaged Power for neg. gates & up to 100 gates
blue: 204352-205036, 2023 profiles averaged
red: 205036-205721, 2022 profiles averaged

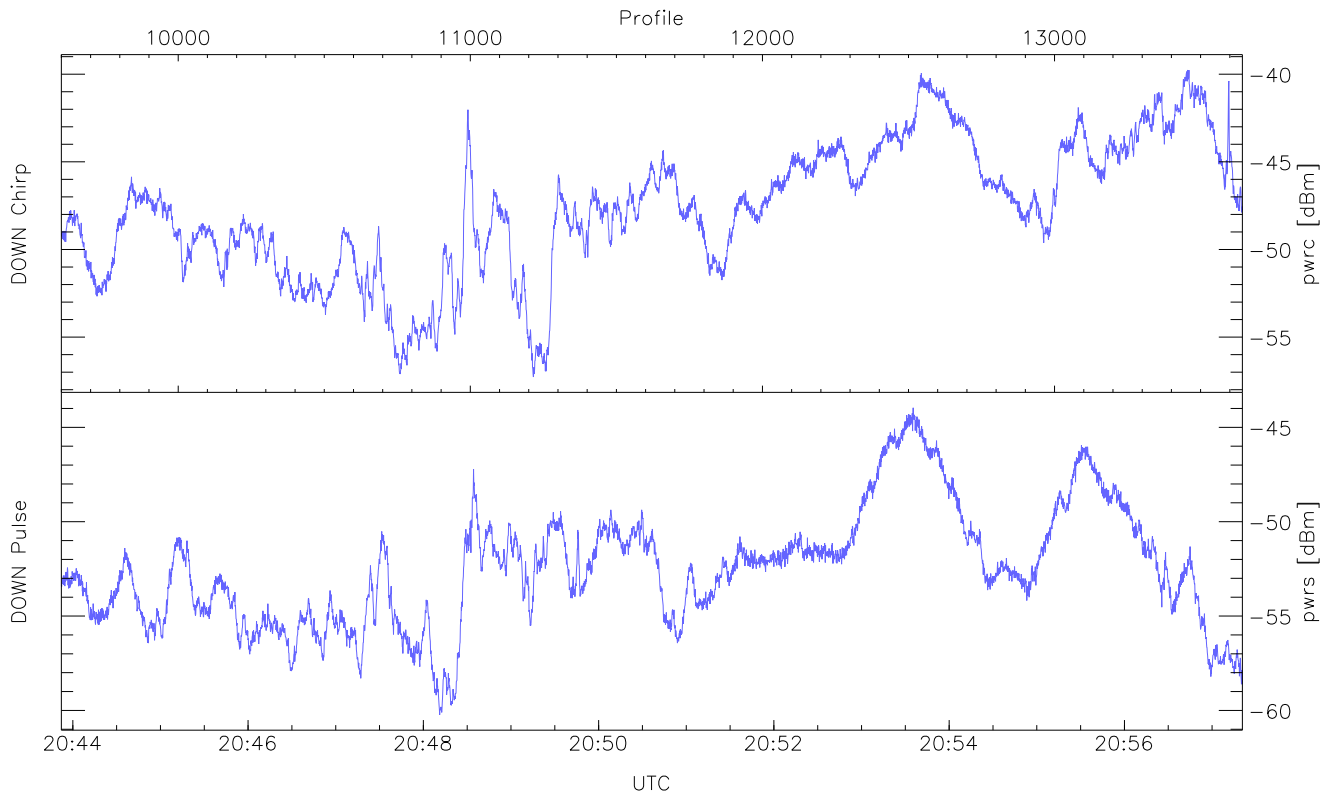
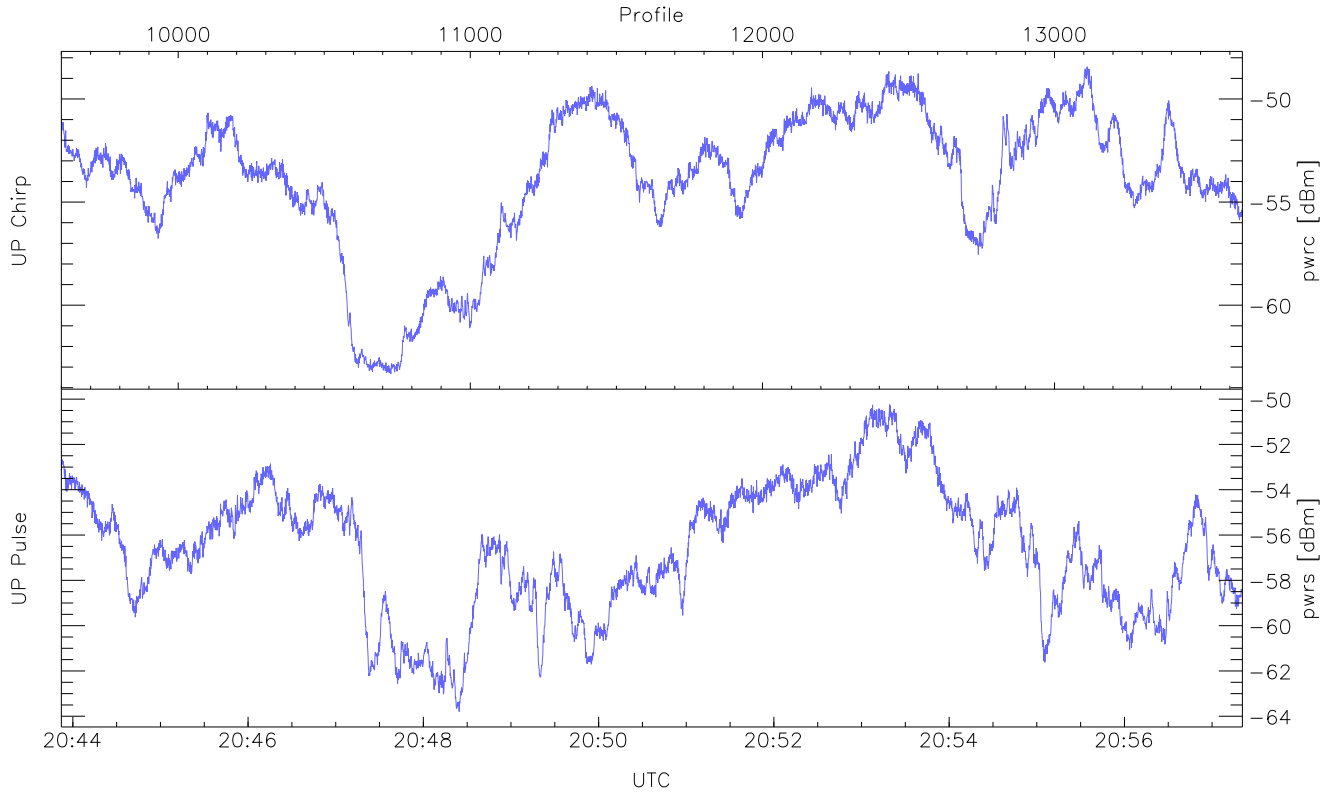


KPR SPP Averaged PP magnitude for all recorded gates
blue: 204352-205036, 2023 profiles averaged
red: 205036-205721, 2022 profiles averaged



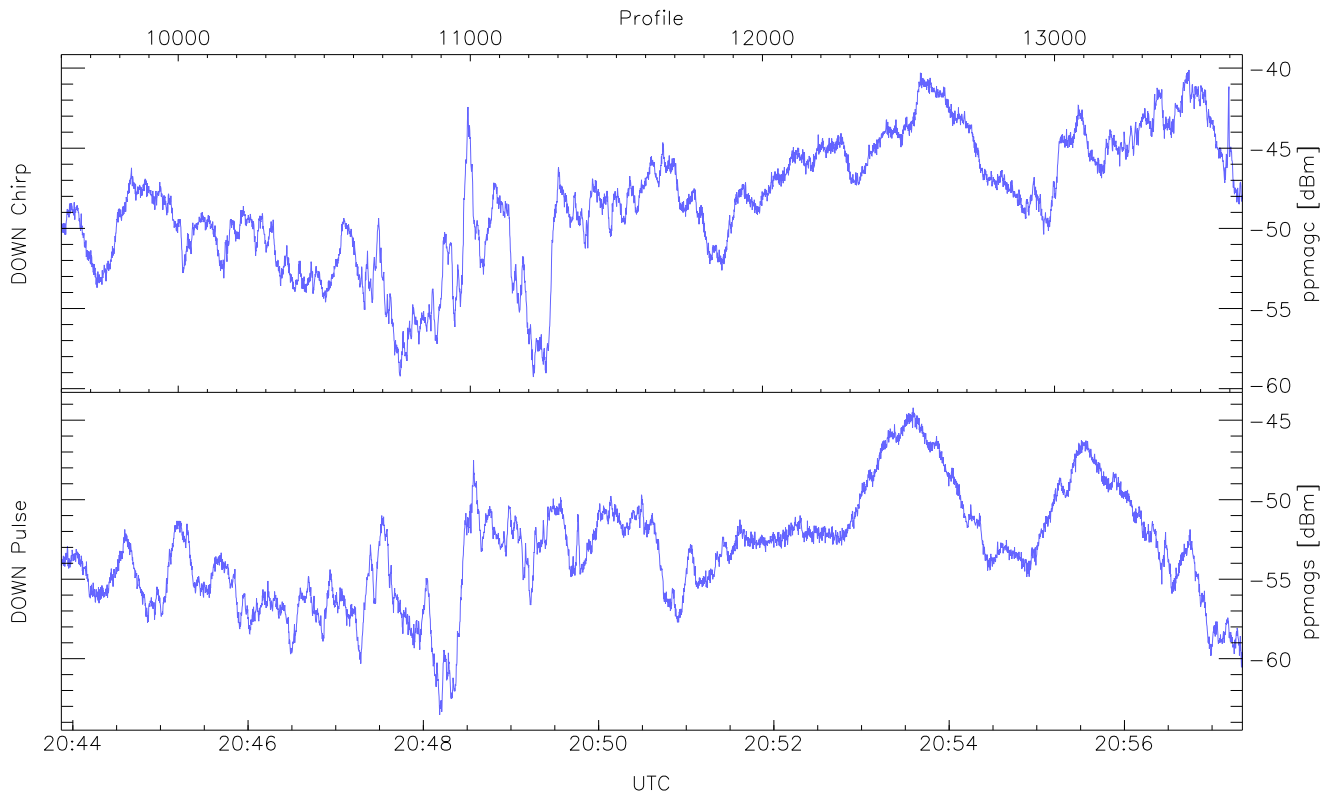
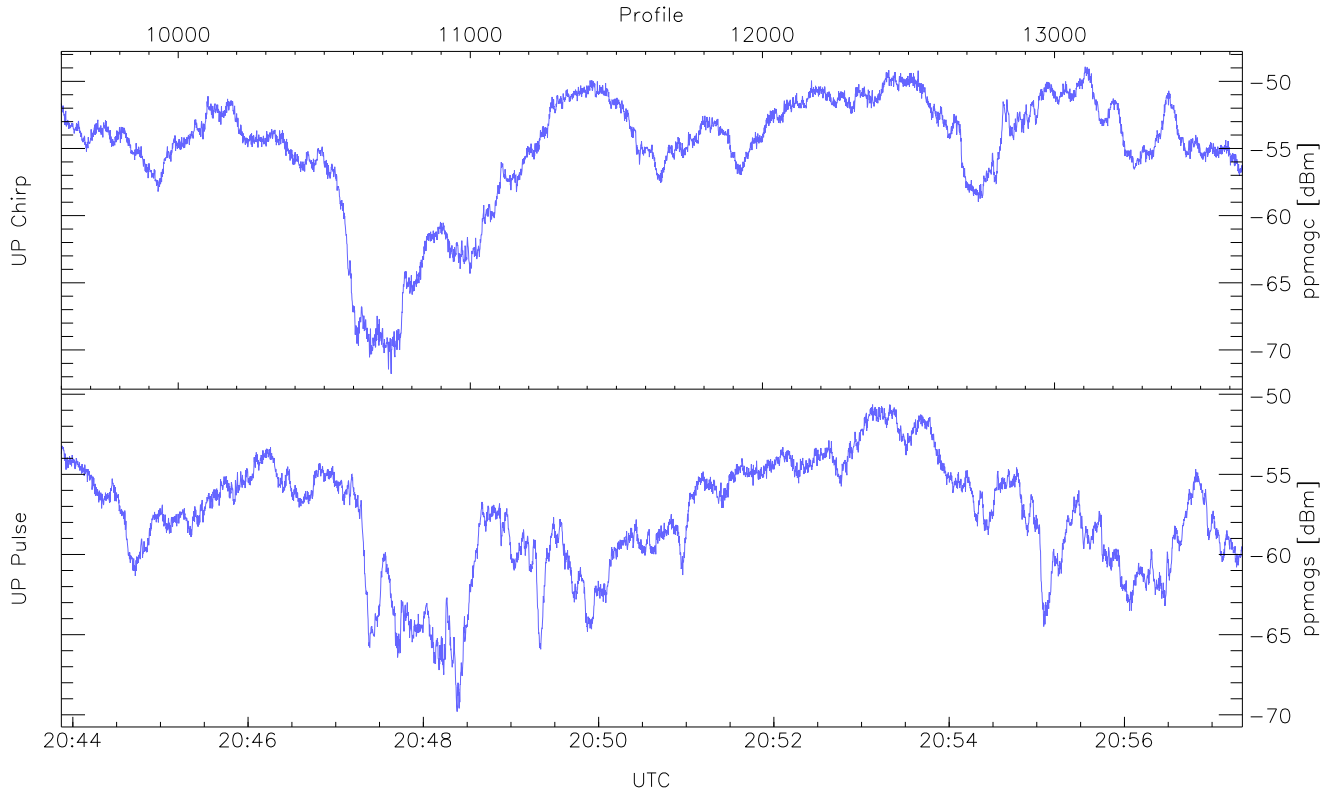
KPR SPP "Best" PPVEL noise (m/s):

	Min	Max	Mean	Median	StDev
UP_C_RG383_0	-42.05	42.00	0.55	0.94	24.01
UP_P_RG301_0	-42.03	42.06	0.26	0.32	22.89
DOWN_C_RM_1	-42.04	42.00	0.03	-0.04	24.37
DOWN_P_RM_1	-42.05	42.02	0.07	0.45	23.12



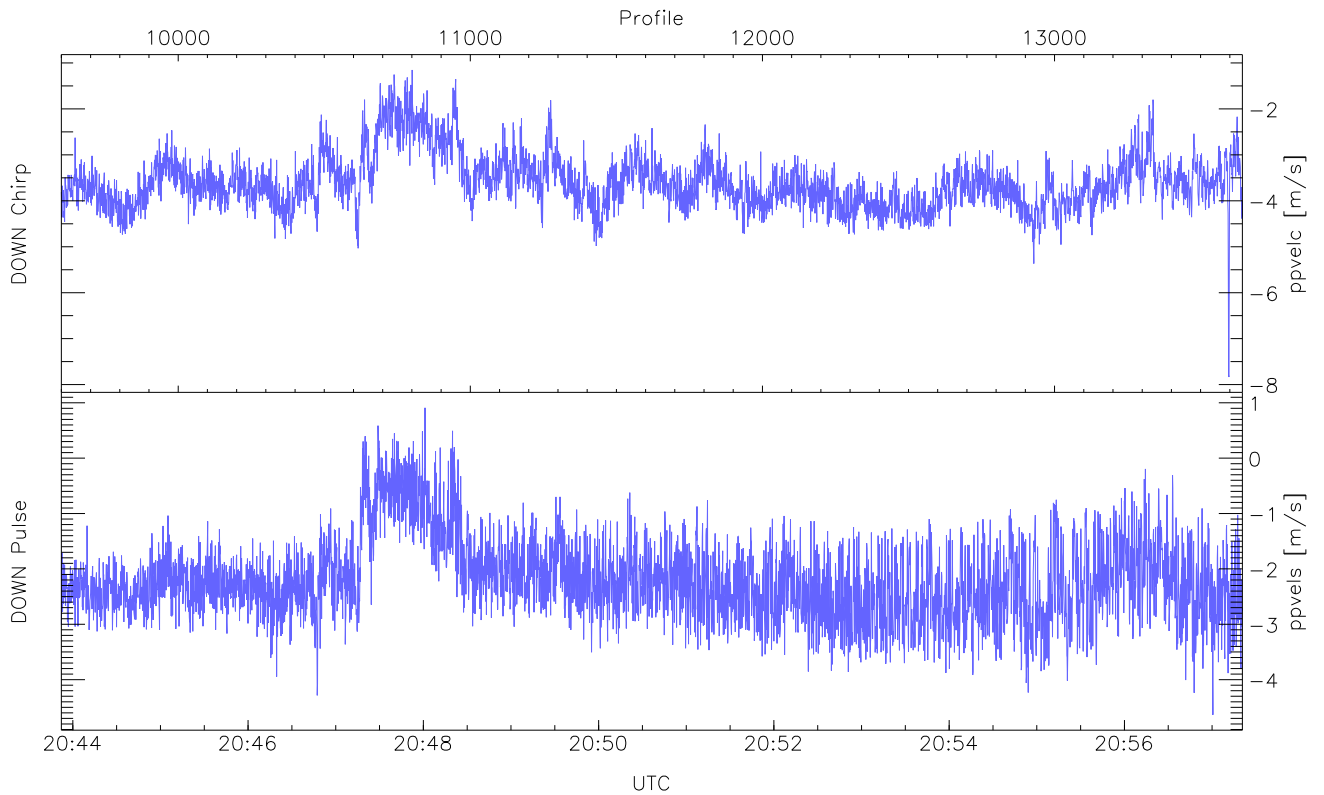
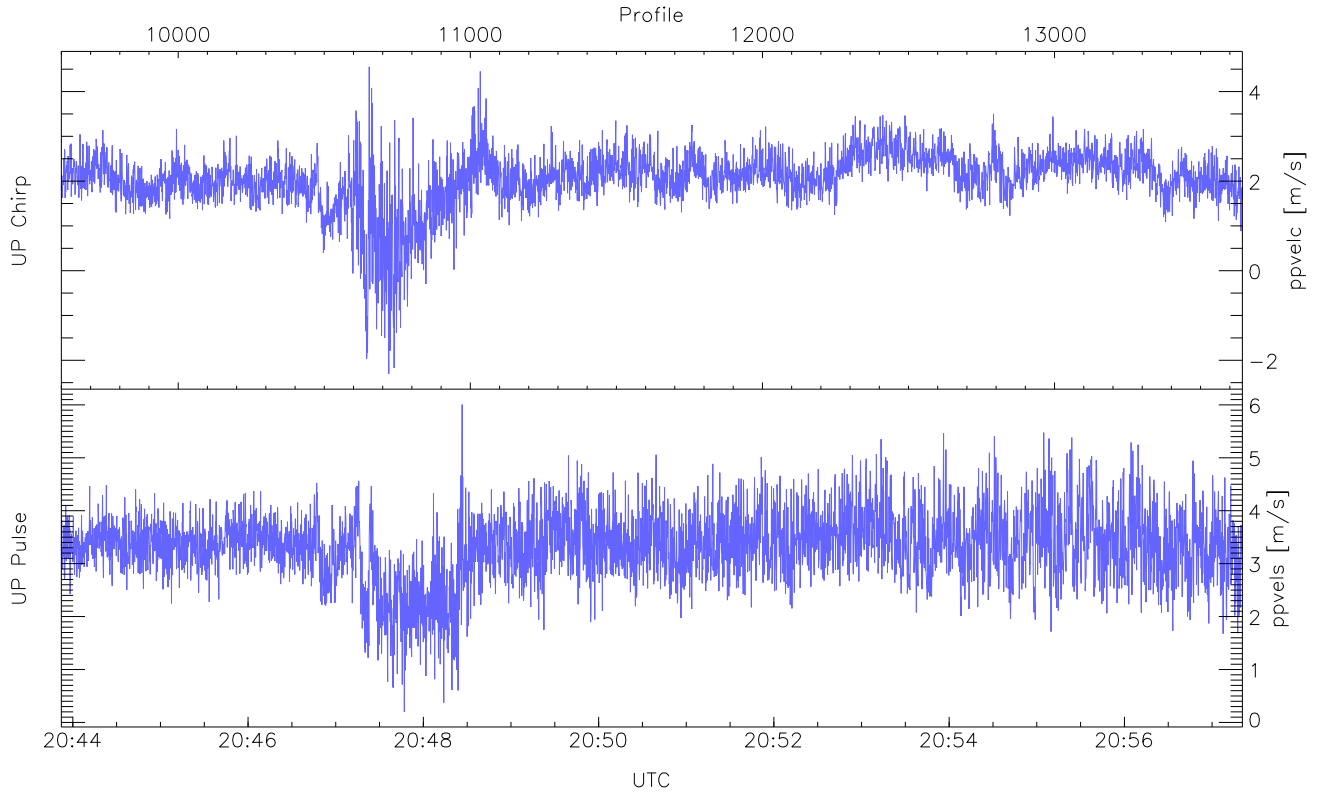
KPR SPP Received Power for Chirp Range gate 10 (686.2 m)
 KPR SPP Received Power for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-63.33	-48.44	-52.86
UP Pulse(dBm)	-63.79	-50.24	-55.74
DOWN Chirp(dBm)	-57.28	-39.76	-46.24
DOWN Pulse(dBm)	-60.23	-43.96	-51.35



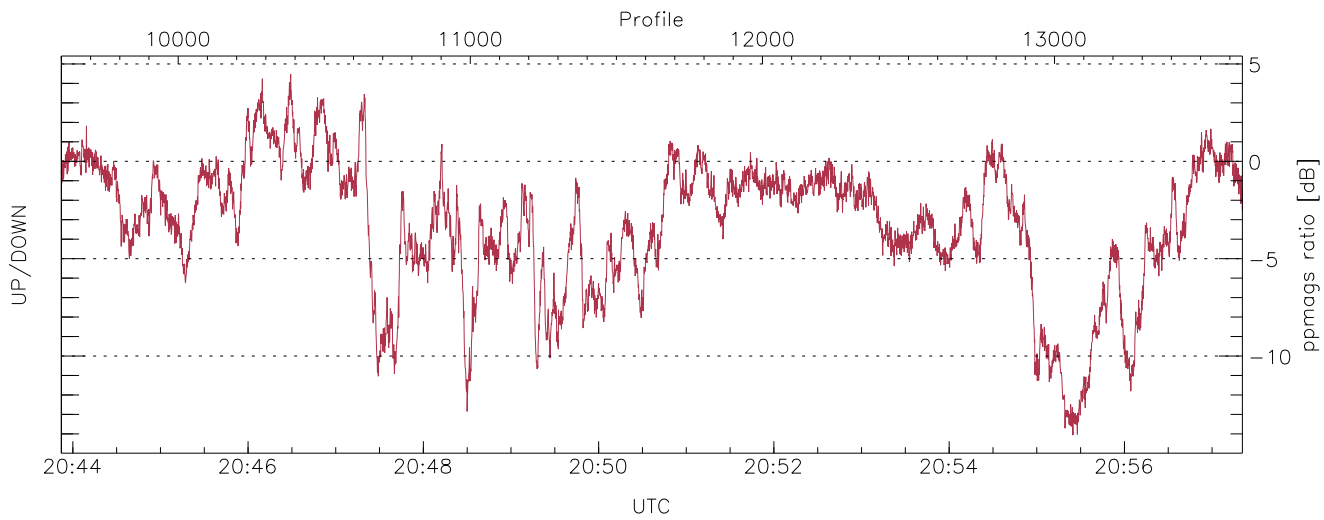
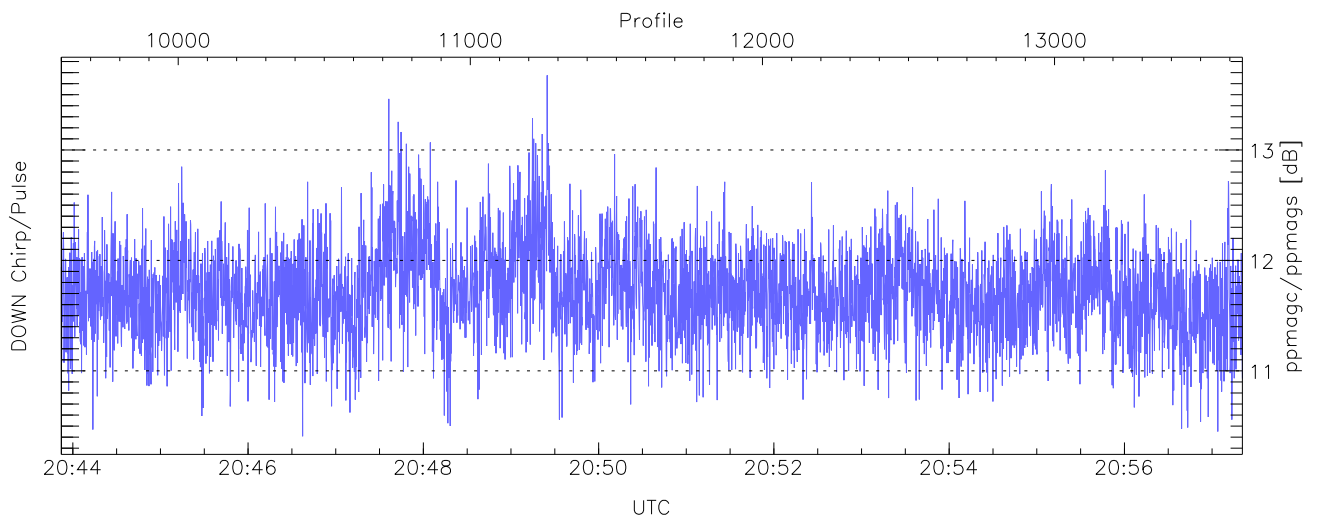
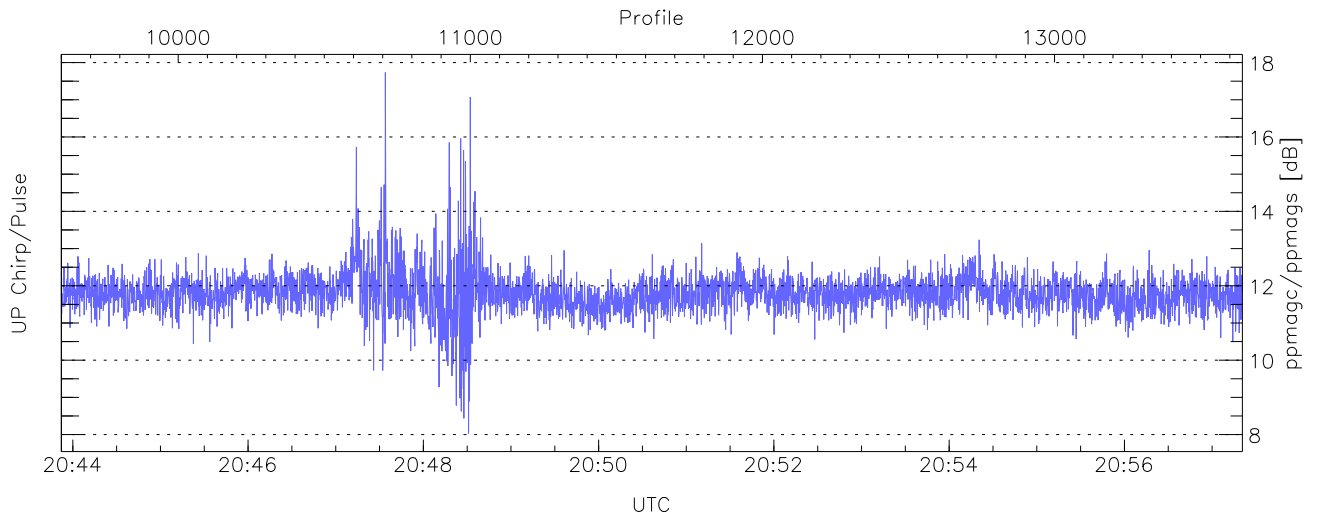
KPR SPP PPMAG for Chirp Range gate 10 (686.2 m)
 KPR SPP PPMAG for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-71.78	-48.92	-53.61
UP Pulse(dBm)	-69.80	-50.65	-56.51
DOWN Chirp(dBm)	-59.27	-40.12	-46.78
DOWN Pulse(dBm)	-63.53	-44.22	-51.86



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)	-2.30	4.55	2.06
UP Pulse(m/s)	0.20	6.01	3.32
DOWN Chirp(m/s)	-7.84	-1.15	-3.60
DOWN Pulse(m/s)	-4.64	0.91	-2.20



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

	Min	Max	Mean
UP Chirp/Pulse(dBm)	8.03	17.73	11.84
DOWN Chirp/Pulse(dBm)	10.41	13.68	11.73
UP/DOWN Ratio at Range 135.8 m			
	Min	Max	Mean
UP/DOWN(dB)	-14.06	4.48	-2.13