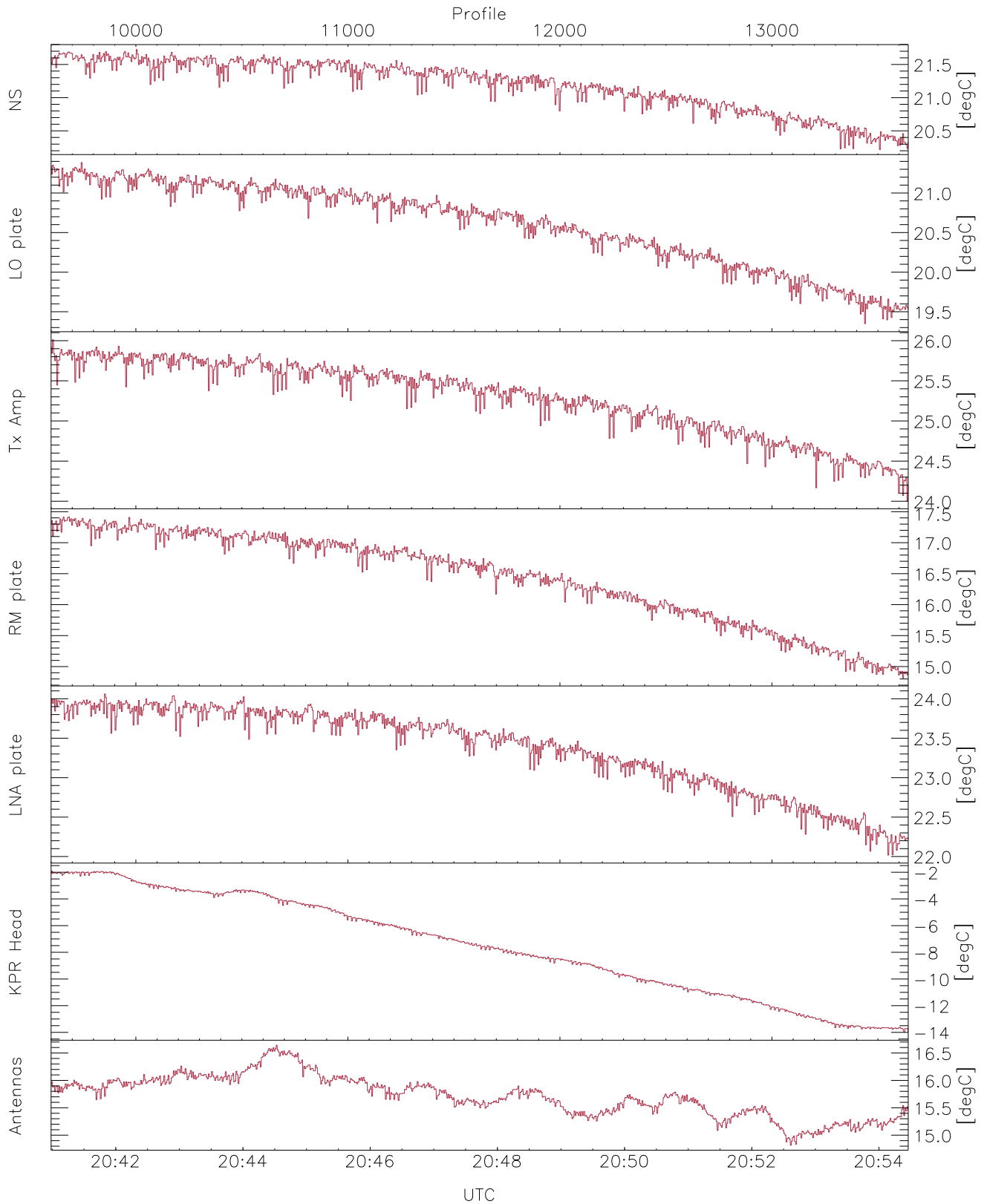


KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF  
 UTC: 20:08:59-20:54:28, TimeCor: 0.00s, Dur: 808.60s  
 TimeInt(min,max,mn,std): 188.6,211.4,200.0,1.0 ms; PPS: 5.0  
 NumRec(r/t): 4044/13644, 9600-13643/20:40:59-20:54:28  
 AcqTime(req,actual): 200.0,200.0 ms, Data Rate: 187.6 KB/s  
 Pulse: 247 ns, Chirp: 2.47 us, DRxIF: 5.0 MHz  
 PRF: 20.0 KHz, avrgPulses: 2000, avrgPP: 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

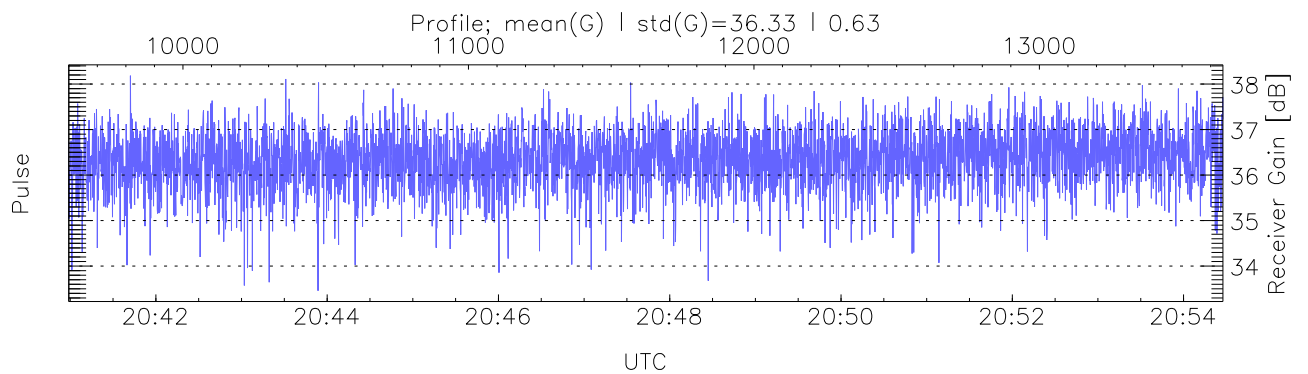
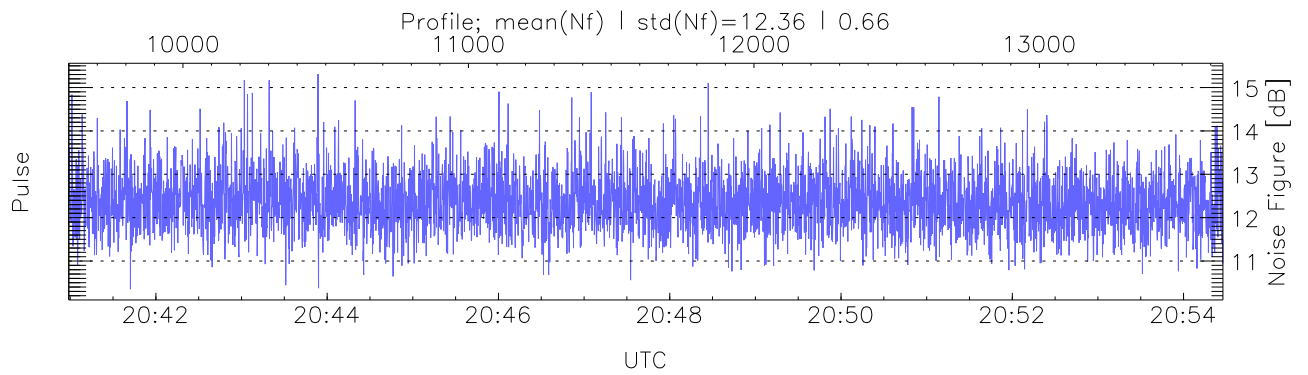
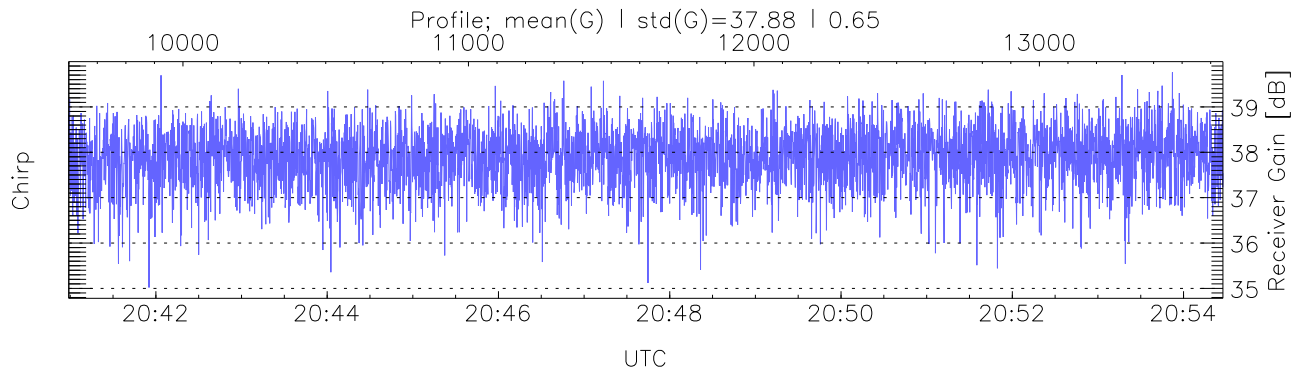
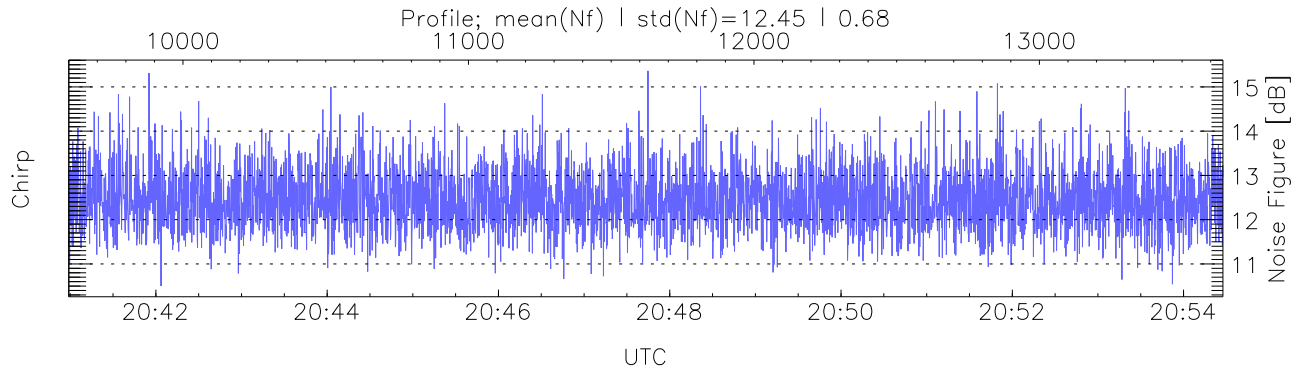


KPR SPP Temperatures, Power Supplies, PLO lock:

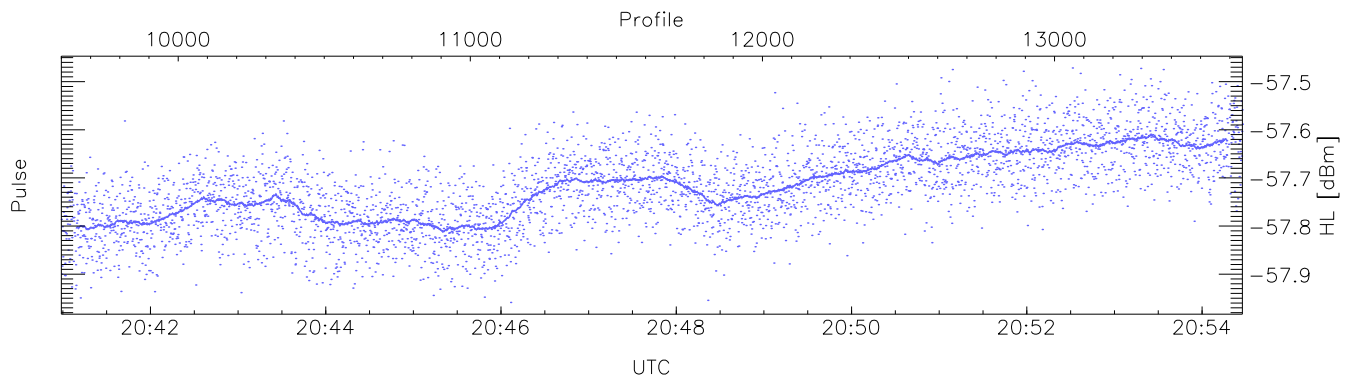
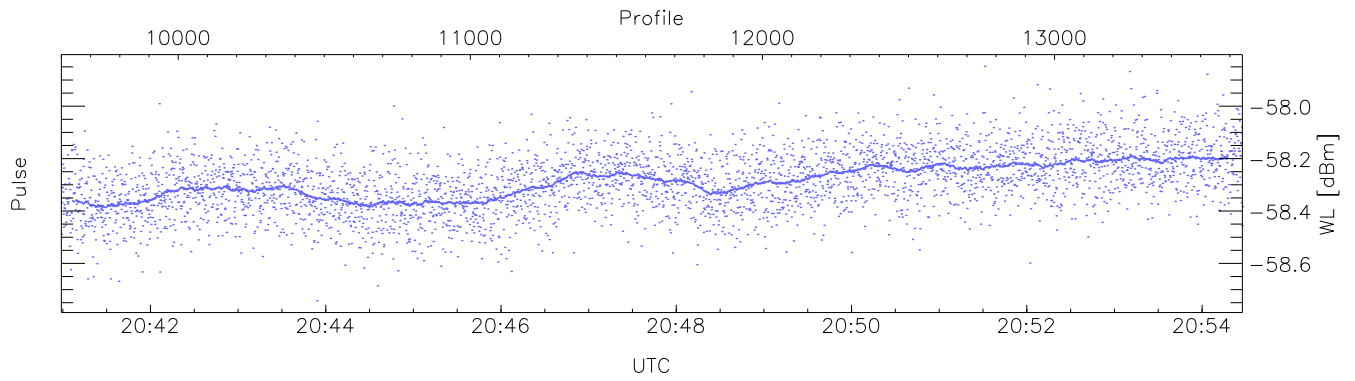
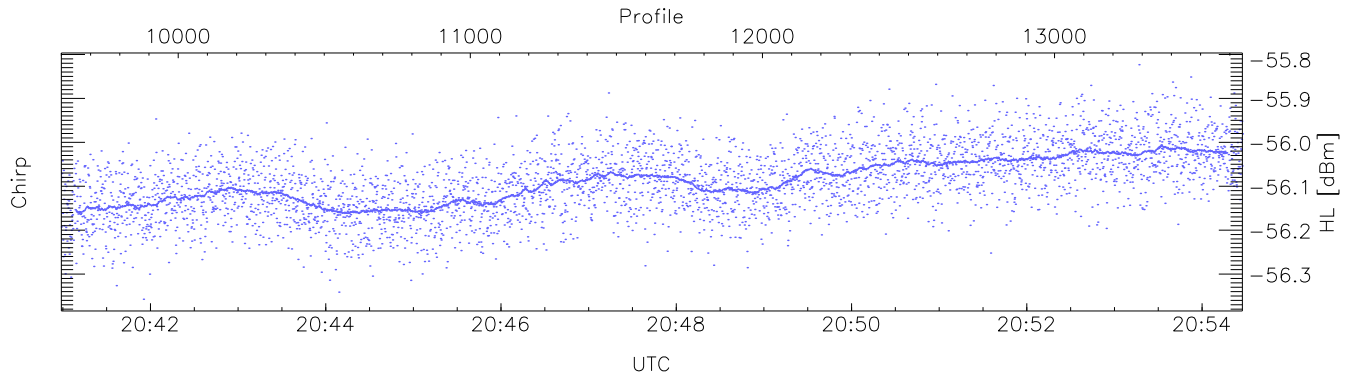
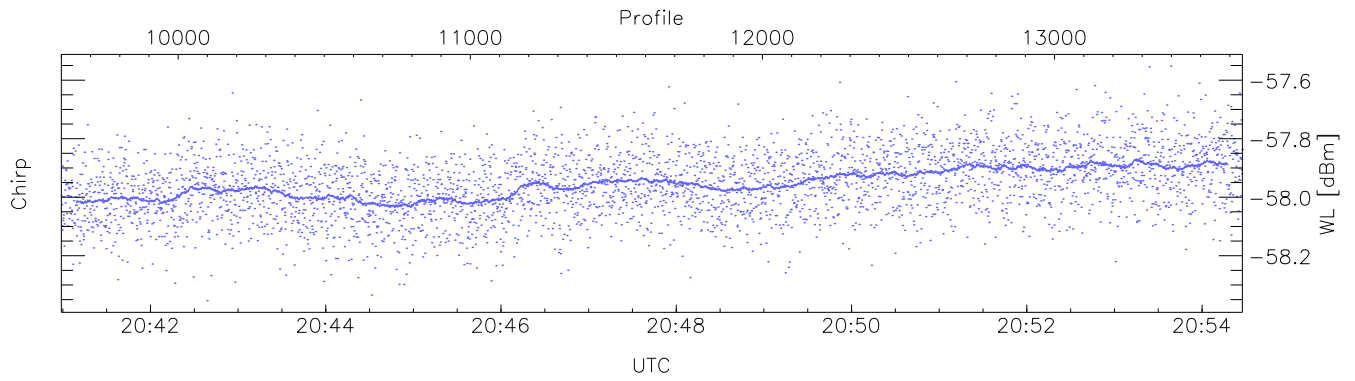
temperature:	NS,	LO,	Tx,	RM,	LNA,	Head,	Ant
mintempC:	20.2,	19.3,	24.0,	14.8,	22.0,	-14.0,	14.8
maxtempC:	21.7,	21.4,	26.0,	17.4,	24.1,	-1.9,	16.6
meantempC:	21.2,	20.6,	25.3,	16.4,	23.4,	-7.5,	15.7

PwrSply:	28,	12,	8,	5 VDC
minVDC:	25.86,	11.68,	7.87,	5.21
maxVDC:	27.85,	11.73,	7.90,	5.23
meanVDC:	26.96,	11.71,	7.88,	5.22

PLO(3.84,15.84 GHz) unlocked: None

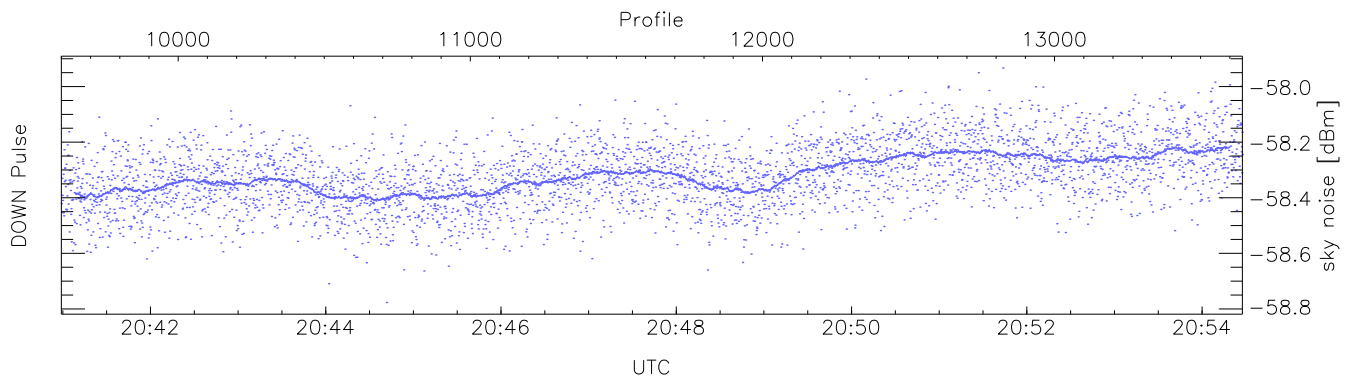
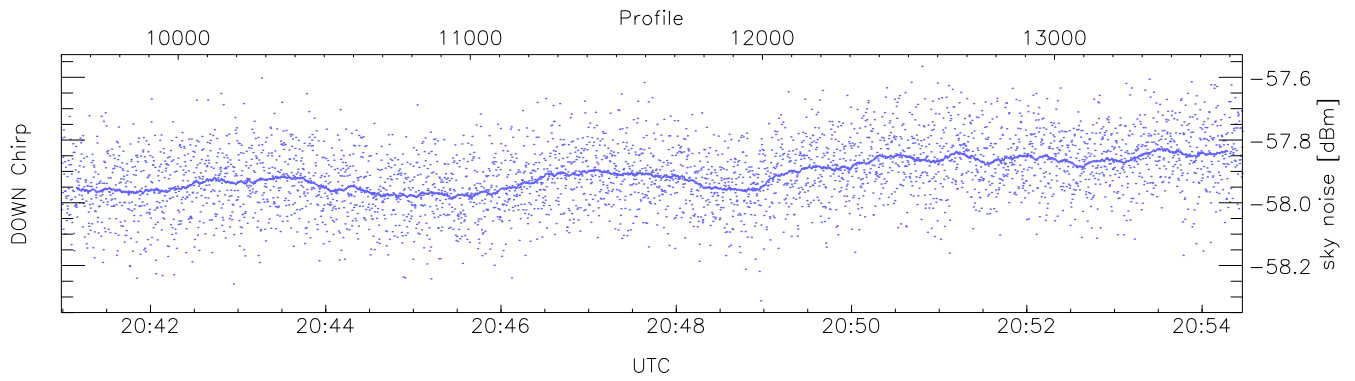
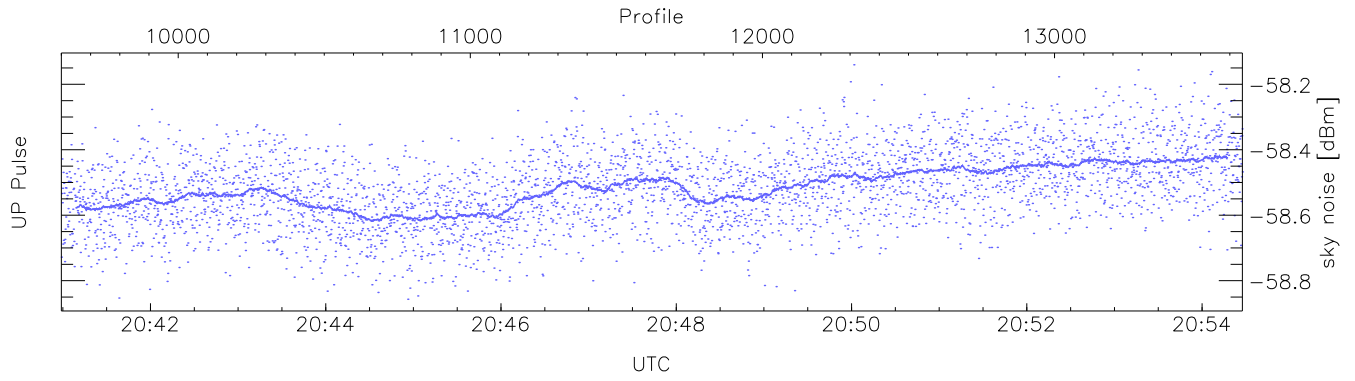
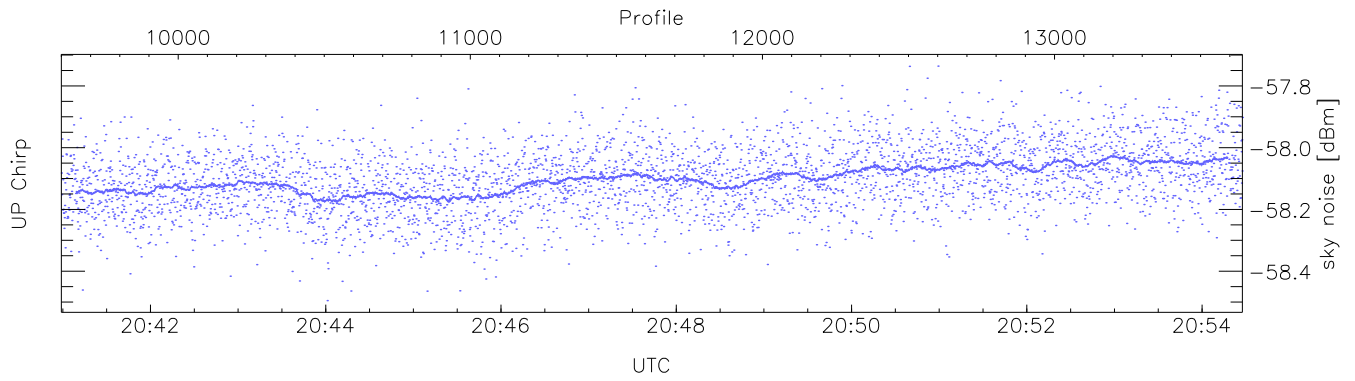


KPR SPP Receiver Gain and Noise Figure



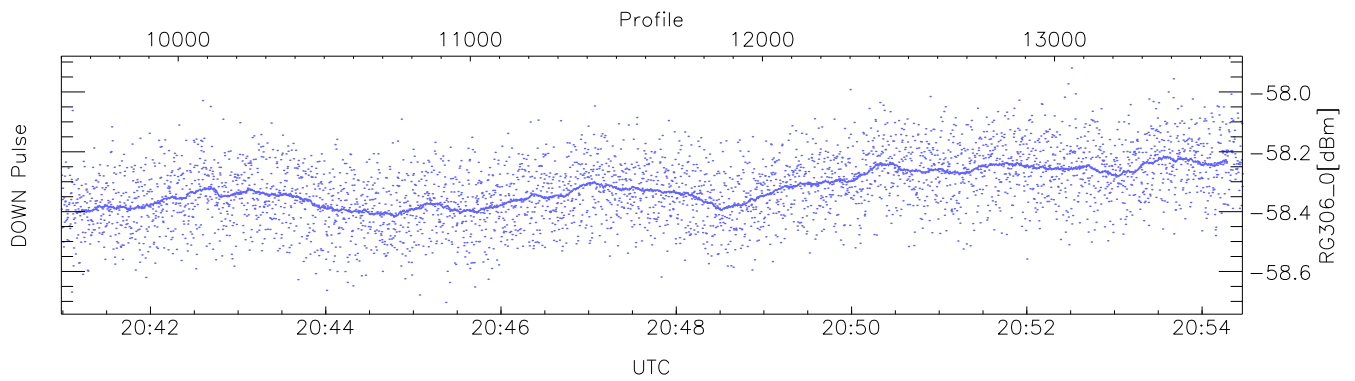
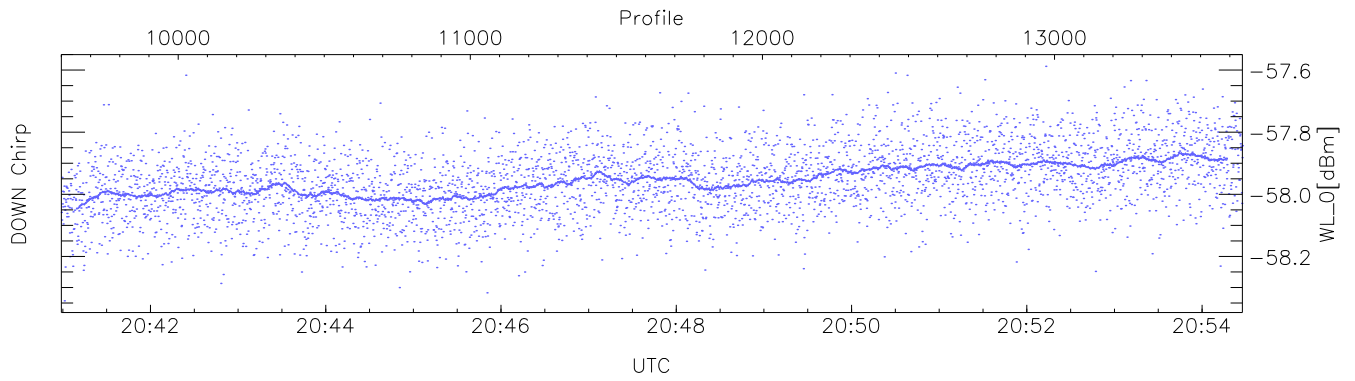
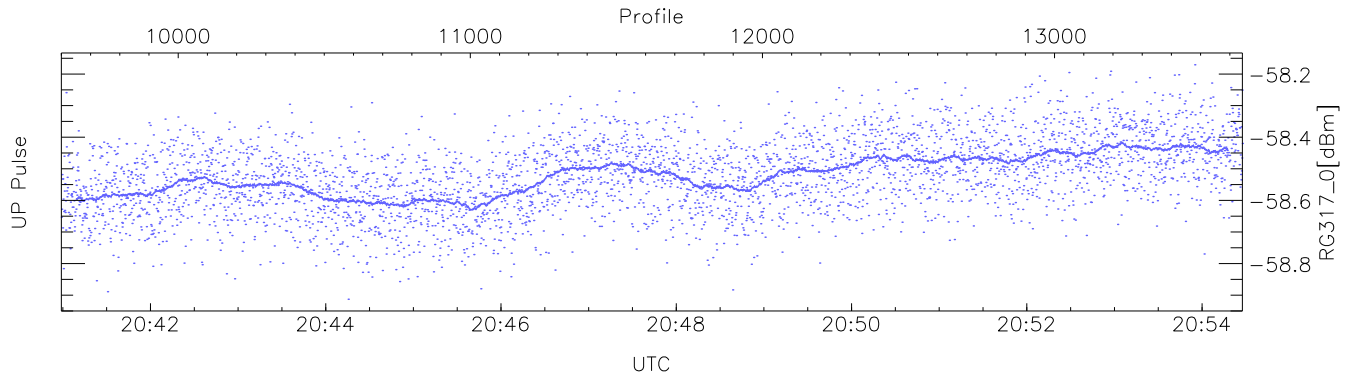
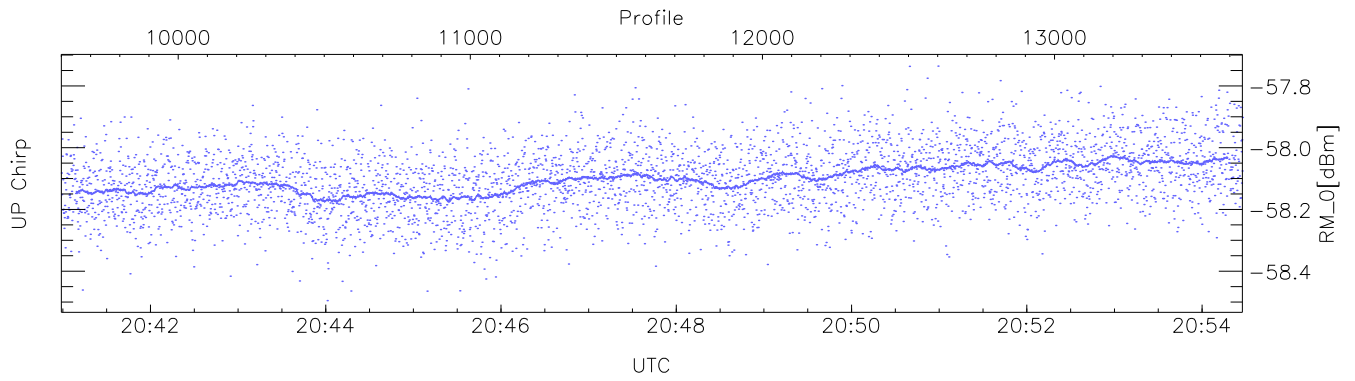
KPR SPP Receiver Noise Source Warm and Hot Measurements

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-58.35	-57.55	-57.95	-57.95	-73.96
Chirp(HL [dBm])	-56.36	-55.82	-56.09	-56.09	-73.67
Pulse(WL [dBm])	-58.74	-57.85	-58.29	-58.29	-74.05
Pulse(HL [dBm])	-57.96	-57.47	-57.72	-57.72	-74.79



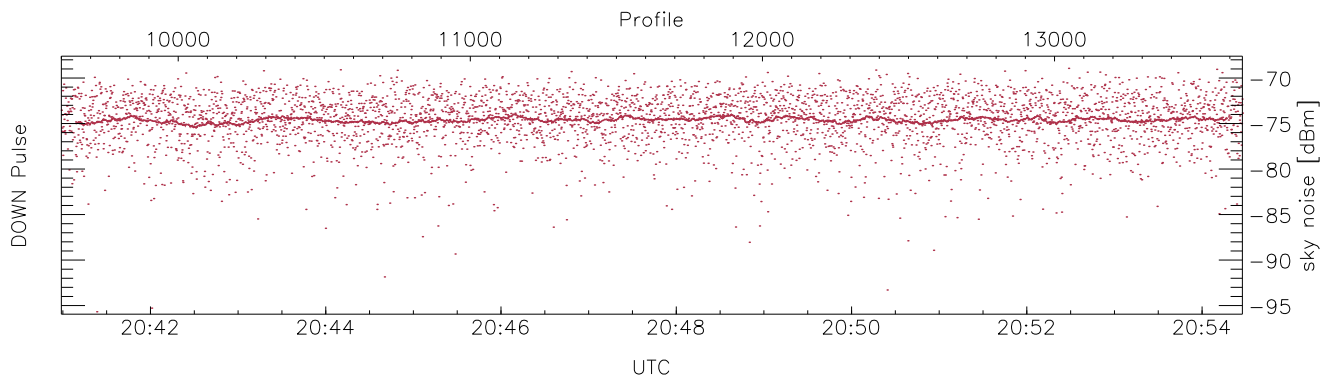
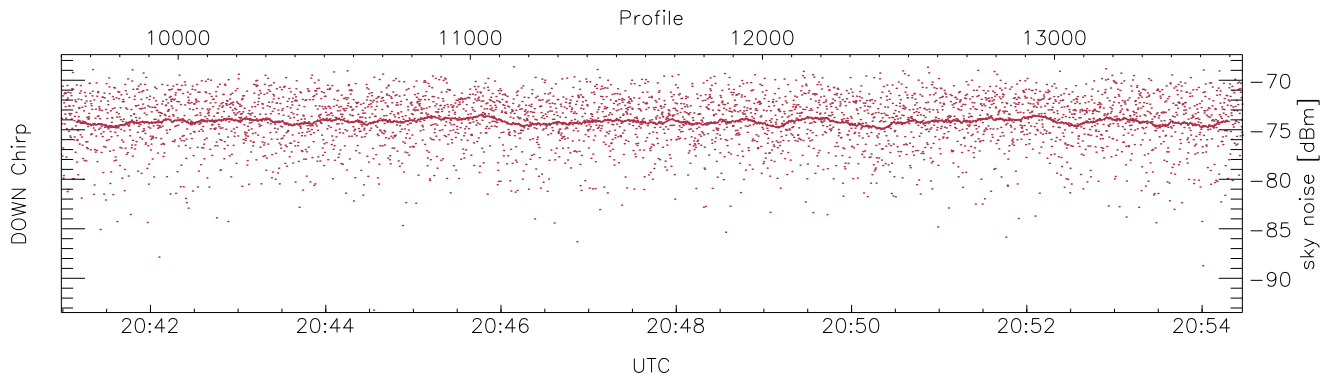
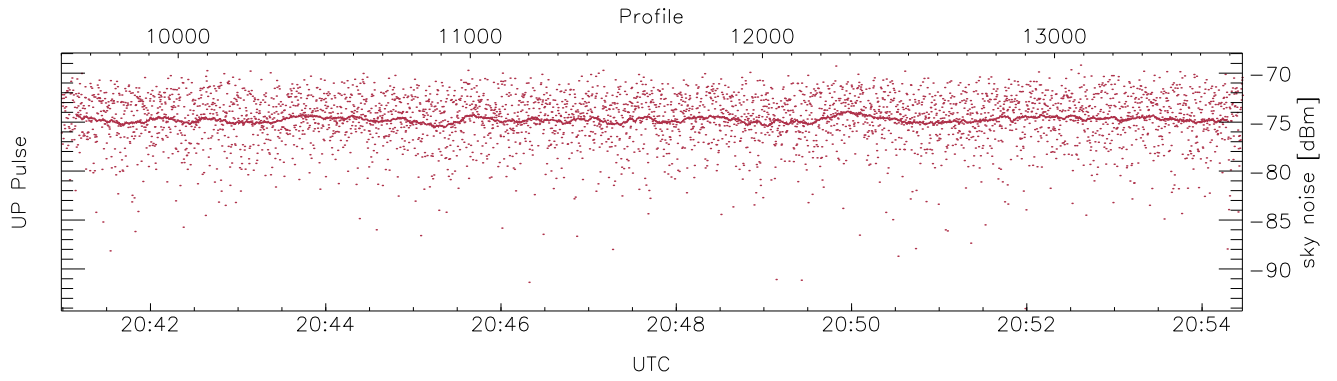
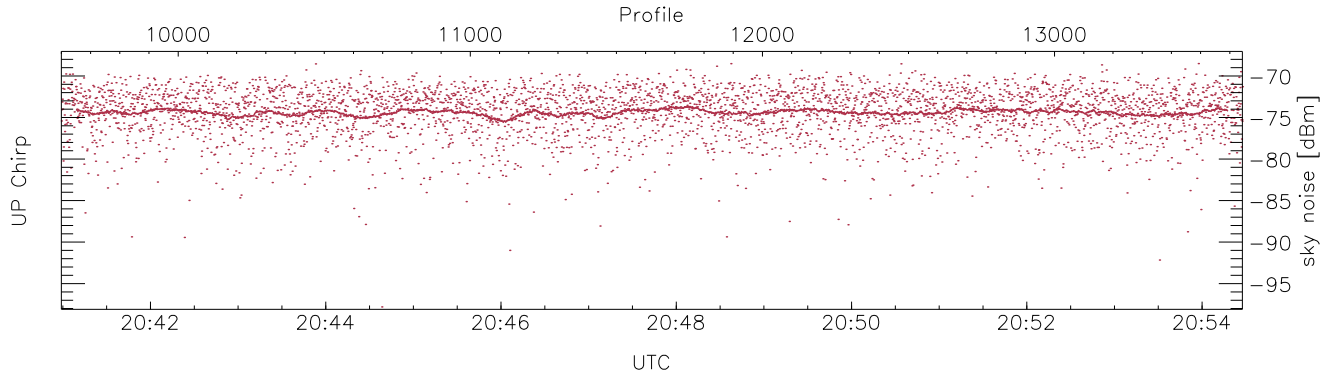
KPR SPP Last range gate power measurements: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-58.50	-57.74	-58.10	-58.10	-74.31
UP Pulse(dBm)	-58.86	-58.14	-58.52	-58.52	-74.40
DOWN Chirp(dBm)	-58.31	-57.57	-57.91	-57.91	-73.94
DOWN Pulse(dBm)	-58.78	-57.93	-58.32	-58.32	-74.21



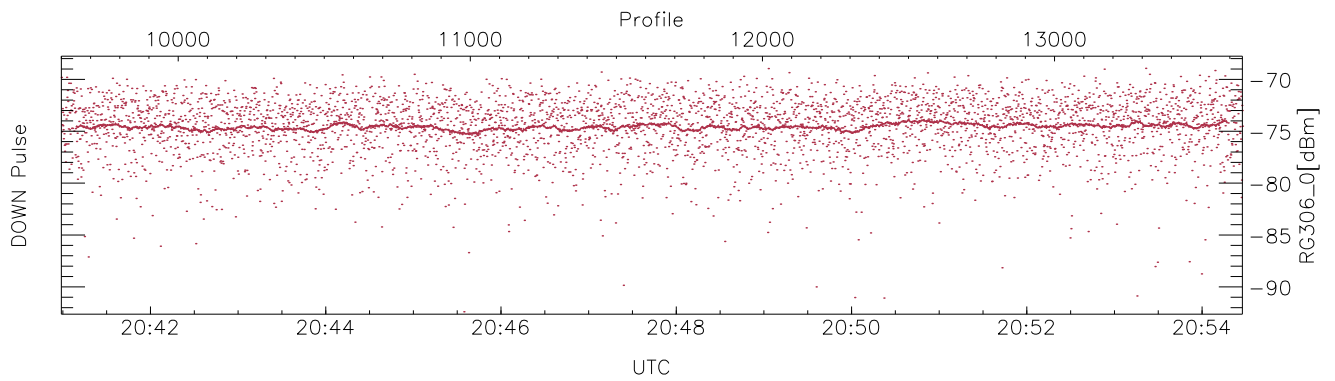
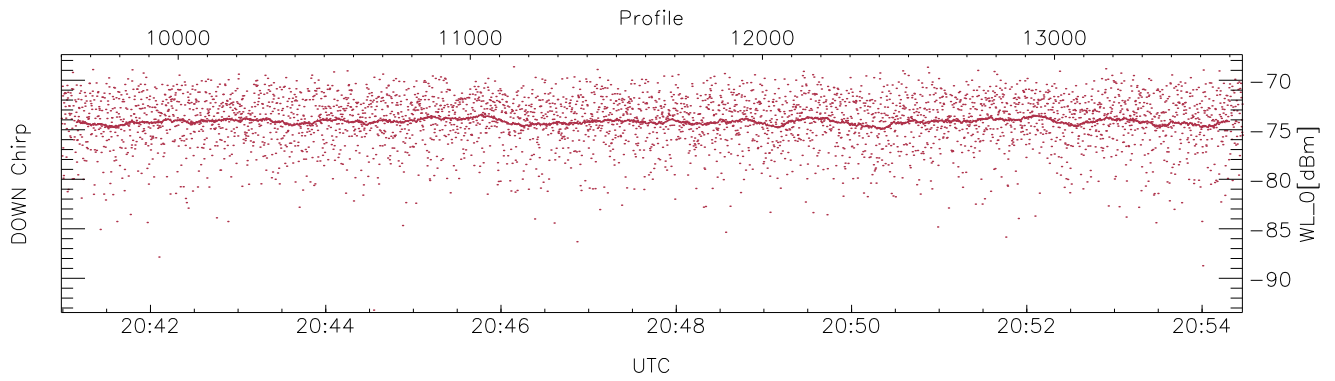
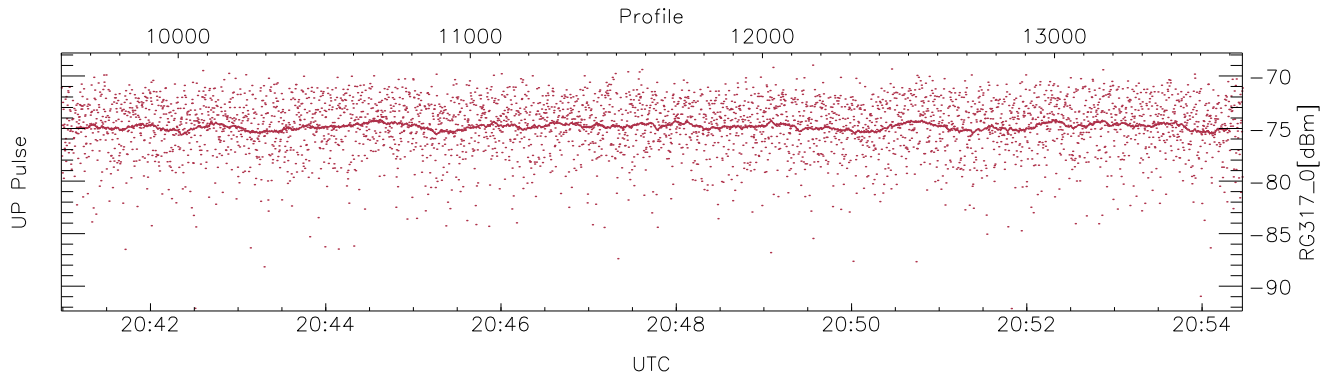
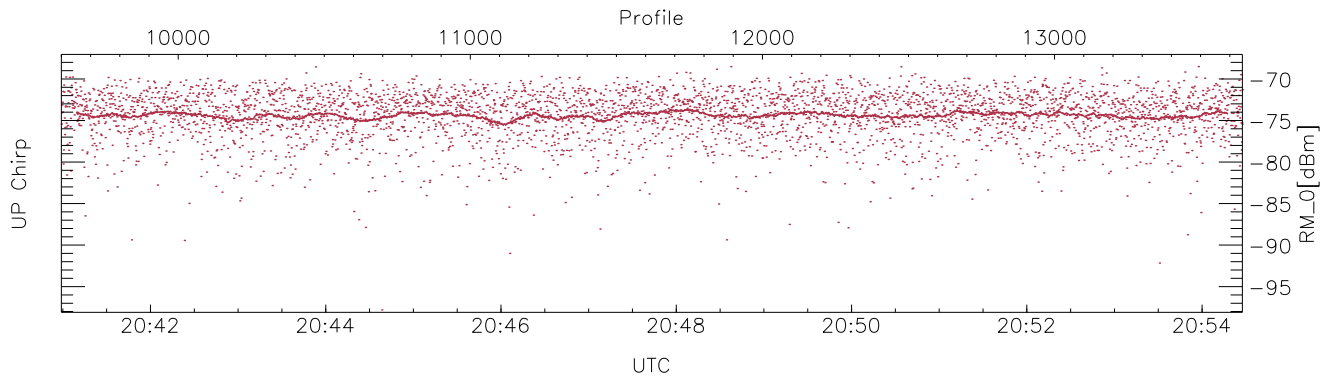
KPR SPP "Best" noise power measurements (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RM_0	-58.50	-57.74	-58.10	-58.10	-74.31
UP_P_RG317_0	-58.91	-58.17	-58.52	-58.52	-74.37
DOWN_C_WL_0	-58.34	-57.59	-57.95	-57.95	-74.05
DOWN_P_RG306_0	-58.70	-57.92	-58.32	-58.32	-74.19



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

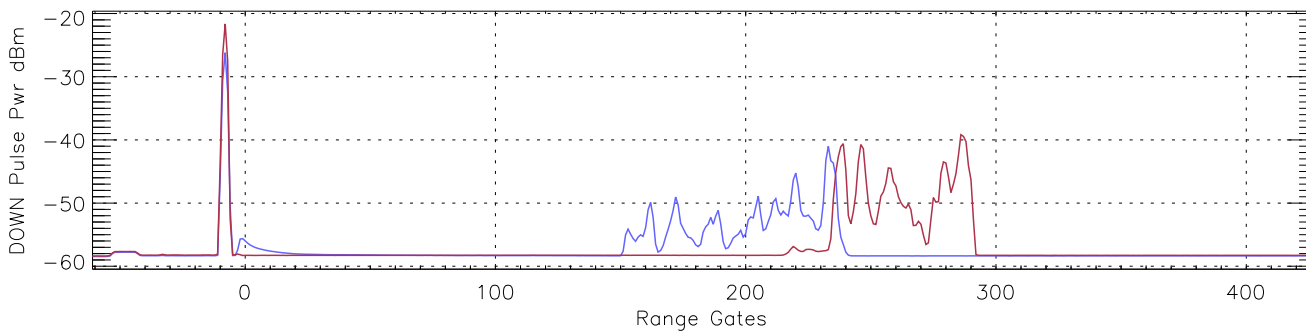
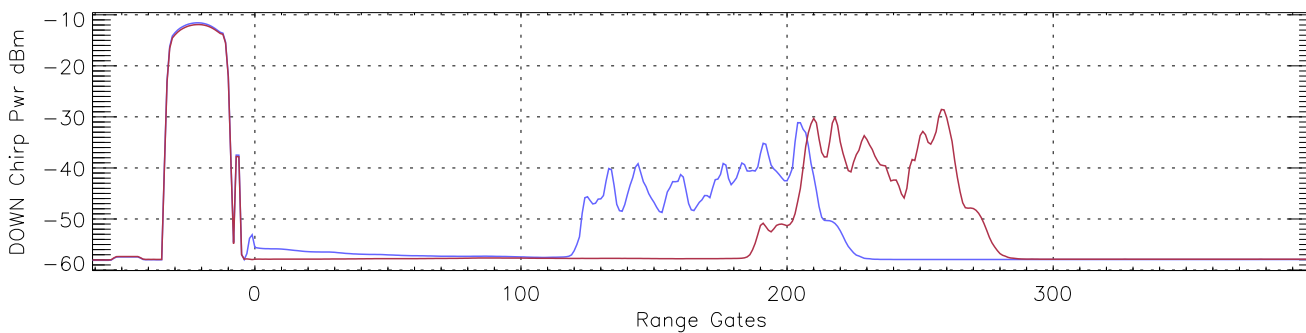
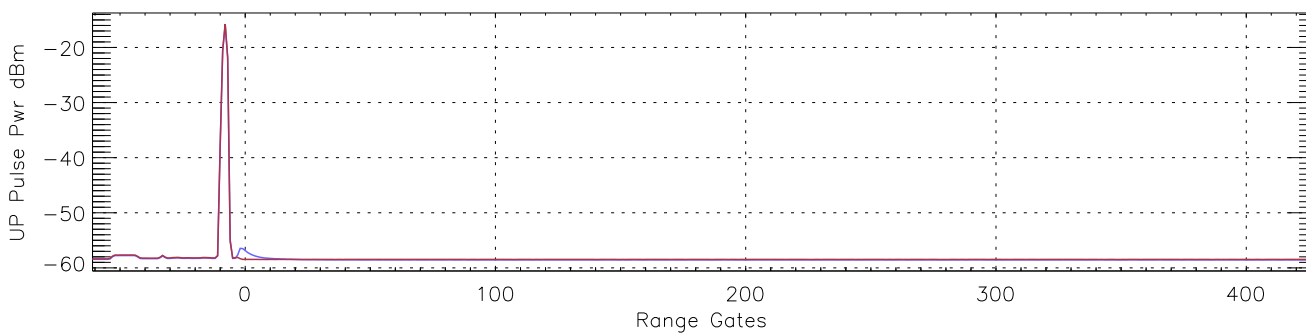
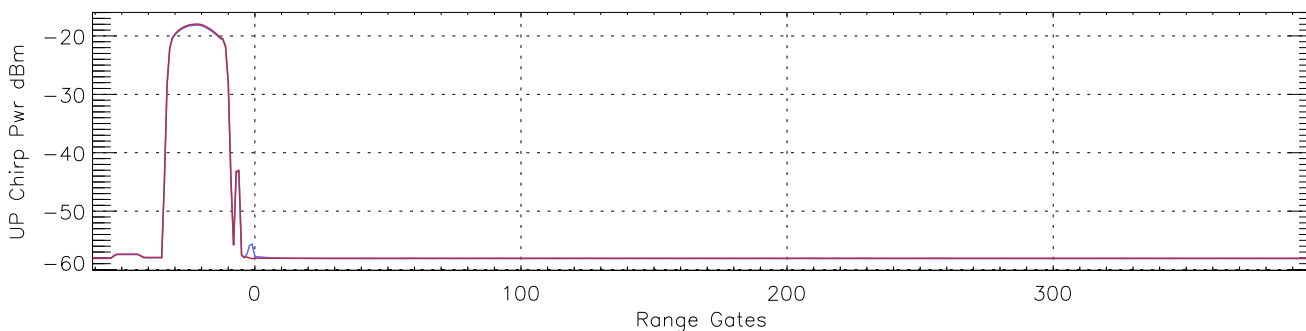
	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-97.81	-68.51	-73.64	-73.88	-76.42
UP Pulse(dBm)	-94.04	-69.18	-74.05	-74.36	-76.94
DOWN Chirp(dBm)	-93.21	-68.64	-73.46	-73.76	-76.25
DOWN Pulse(dBm)	-95.68	-68.94	-73.89	-74.18	-76.68



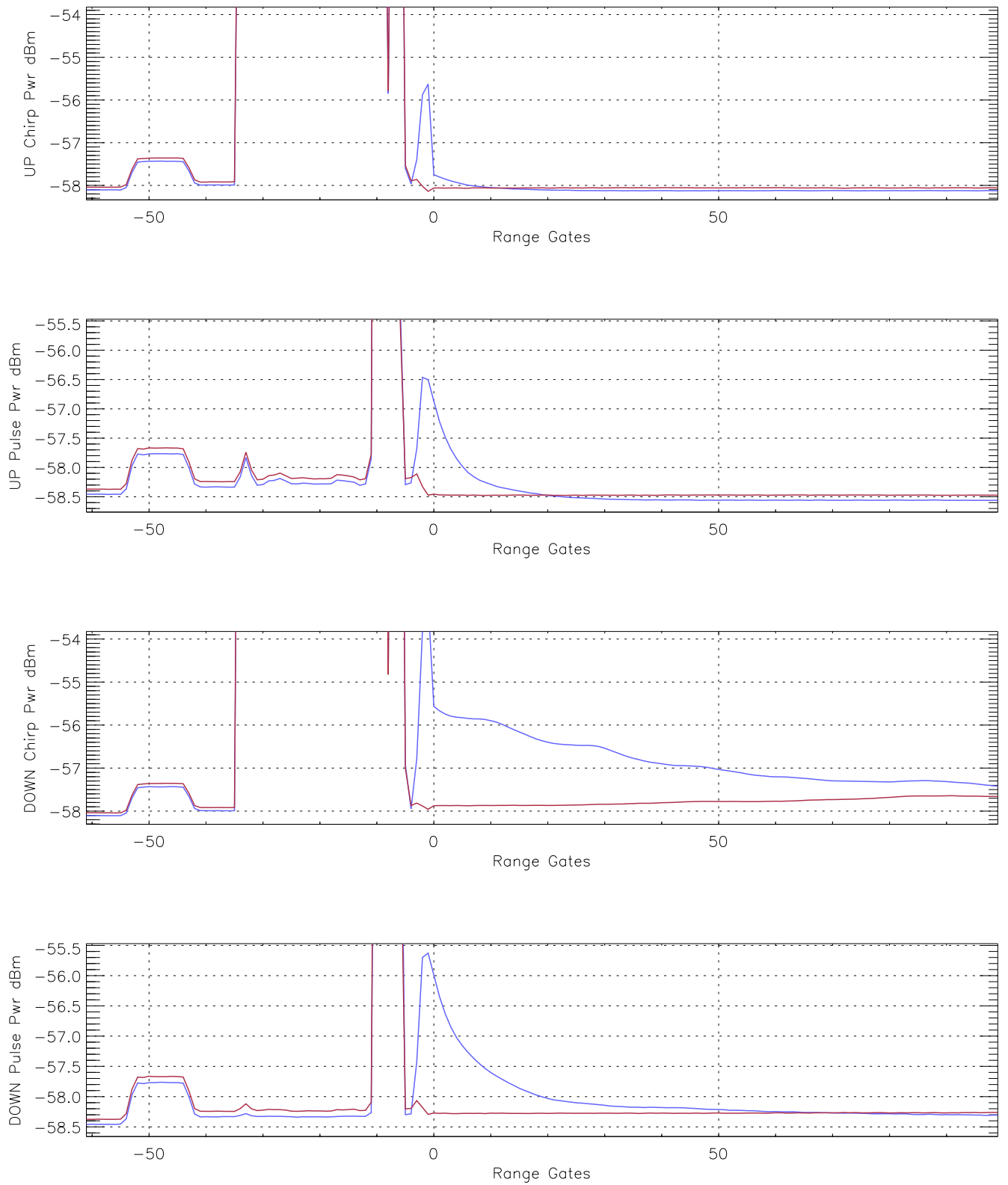
KPR SPP "Best" PPMAG noise (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RM_0	-97.81	-68.51	-73.64	-73.88	-76.42
UP_P_RG317_0	-92.12	-68.97	-74.11	-74.39	-76.88
DOWN_C_WL_0	-93.21	-68.64	-73.46	-73.76	-76.25
DOWN_P_RG306_0	-92.39	-68.94	-73.85	-74.07	-76.68

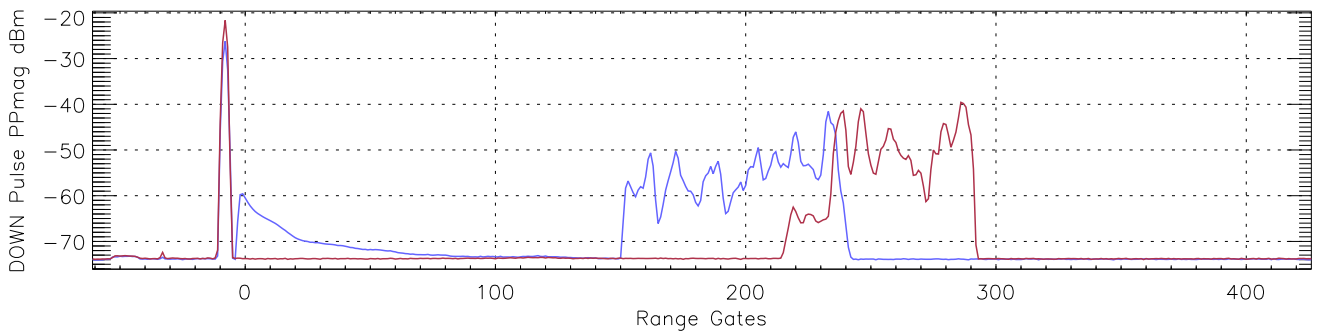
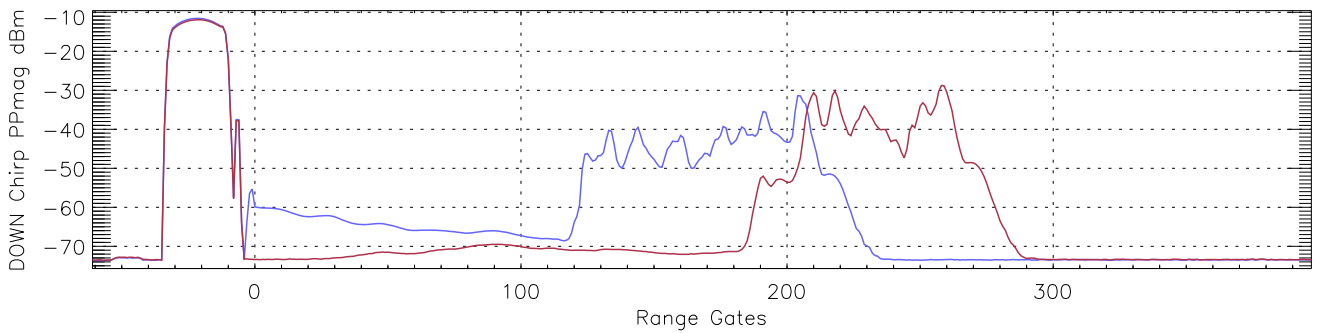
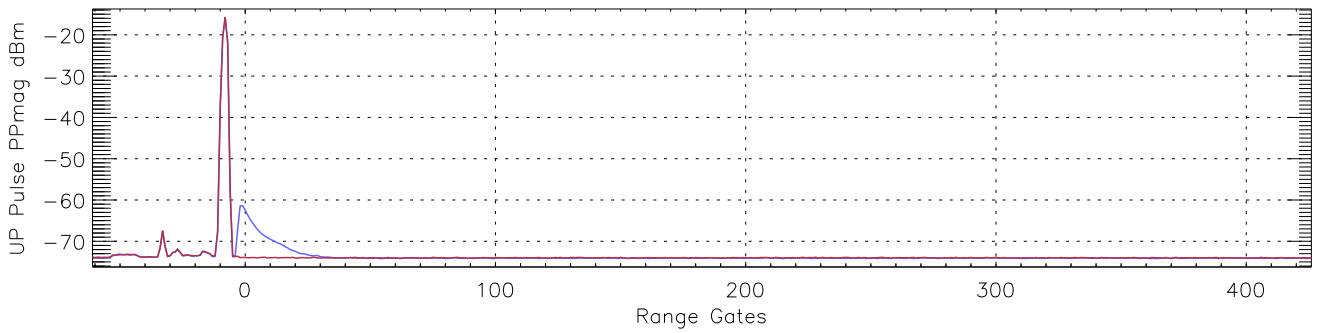
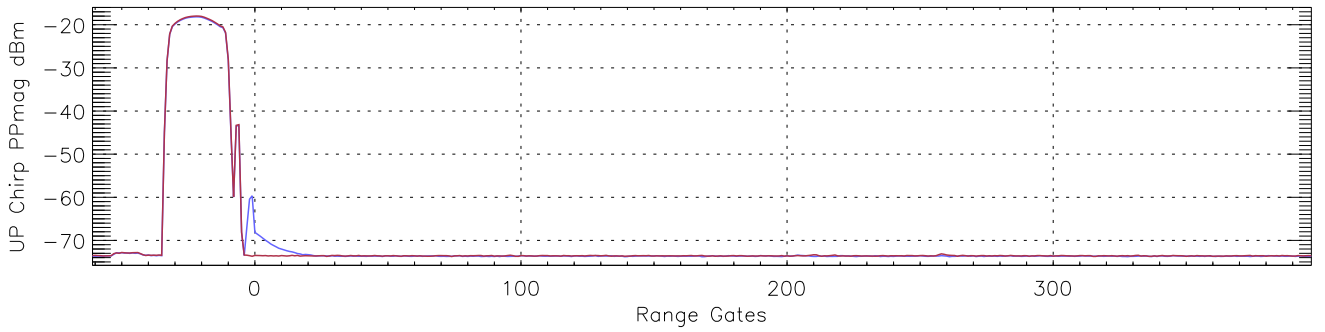




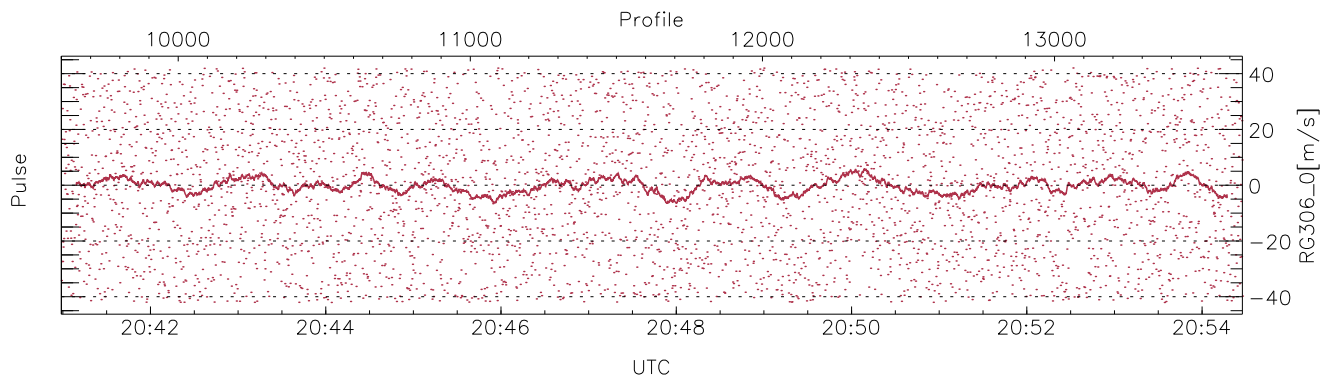
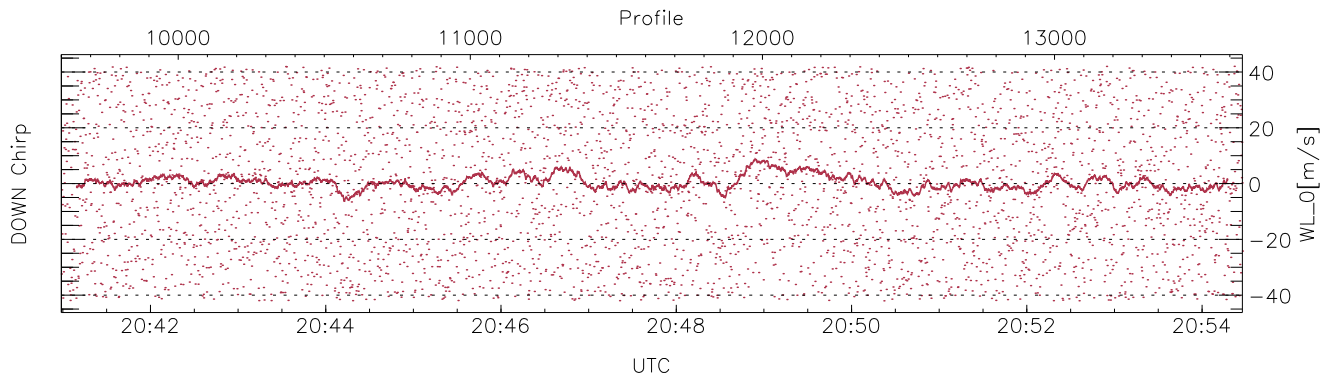
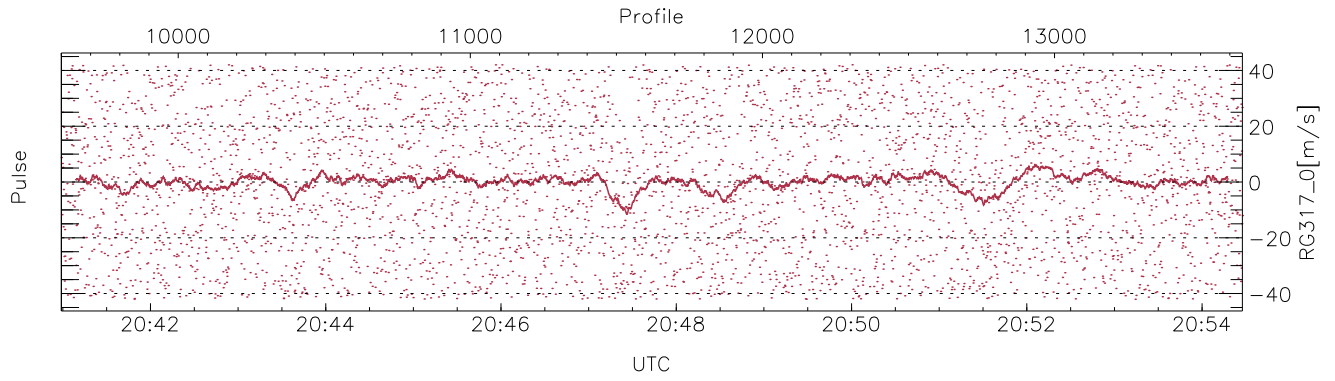
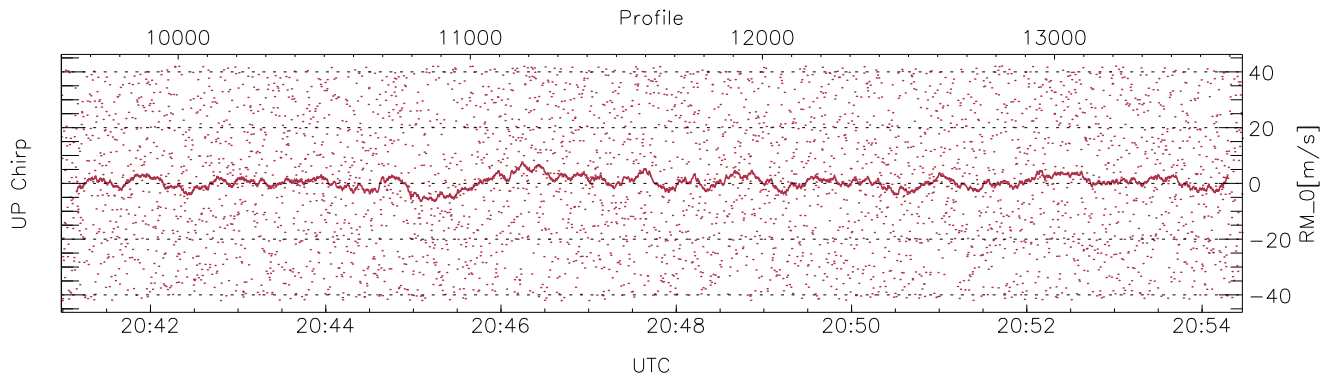
KPR SPP Averaged Received power for all recorded gates  
blue: 204059-204743, 2023 profiles averaged  
red: 204743-205428, 2022 profiles averaged



KPR SPP Averaged Power for neg. gates & up to 100 gates  
blue: 204059-204743, 2023 profiles averaged  
red: 204743-205428, 2022 profiles averaged

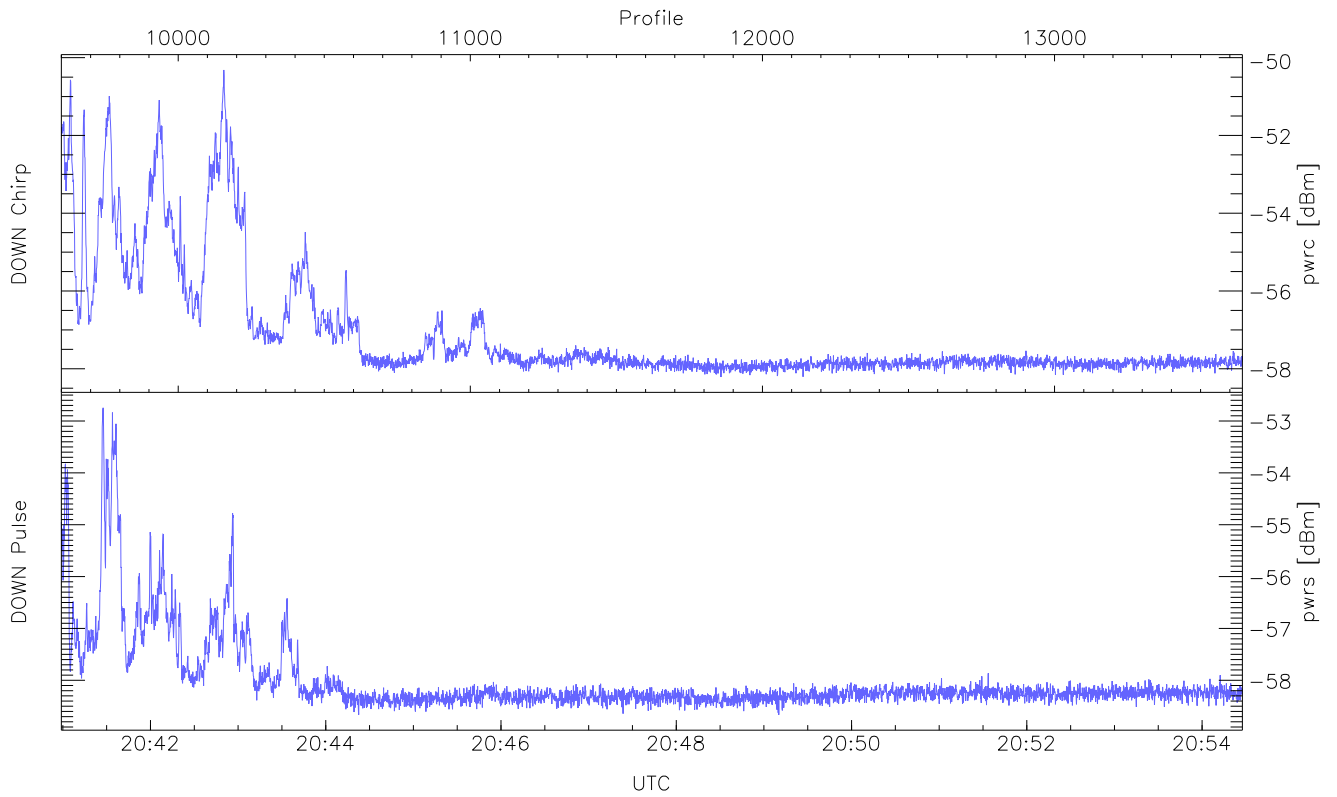
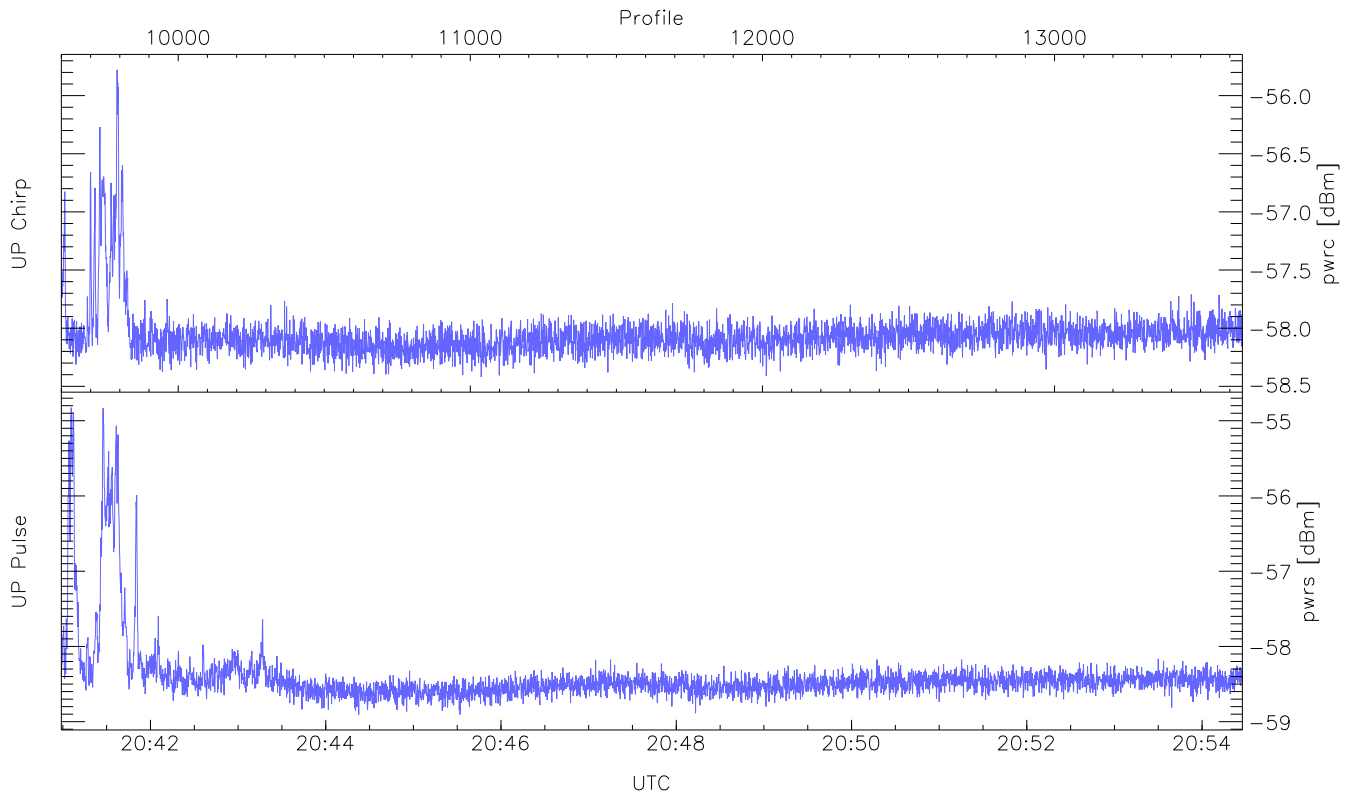


KPR SPP Averaged PP magnitude for all recorded gates  
blue: 204059-204743, 2023 profiles averaged  
red: 204743-205428, 2022 profiles averaged



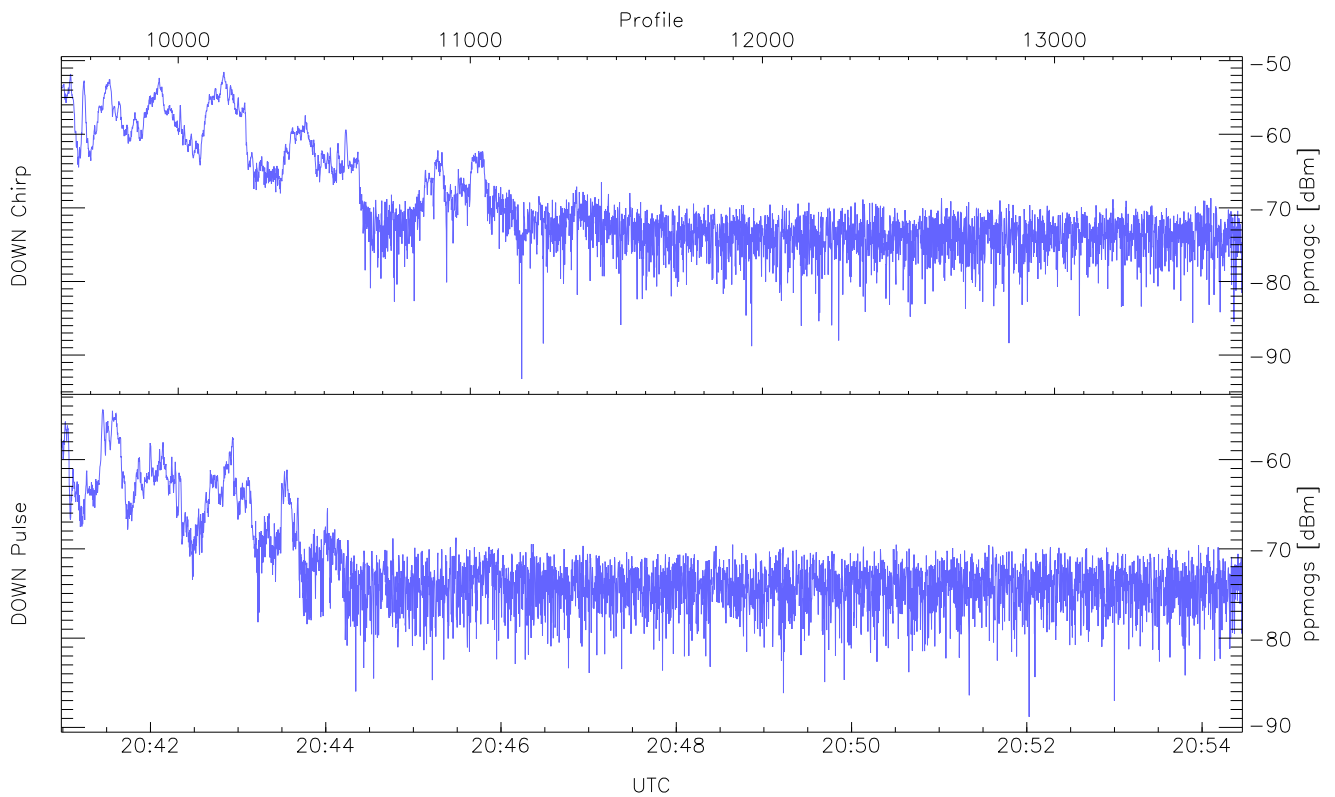
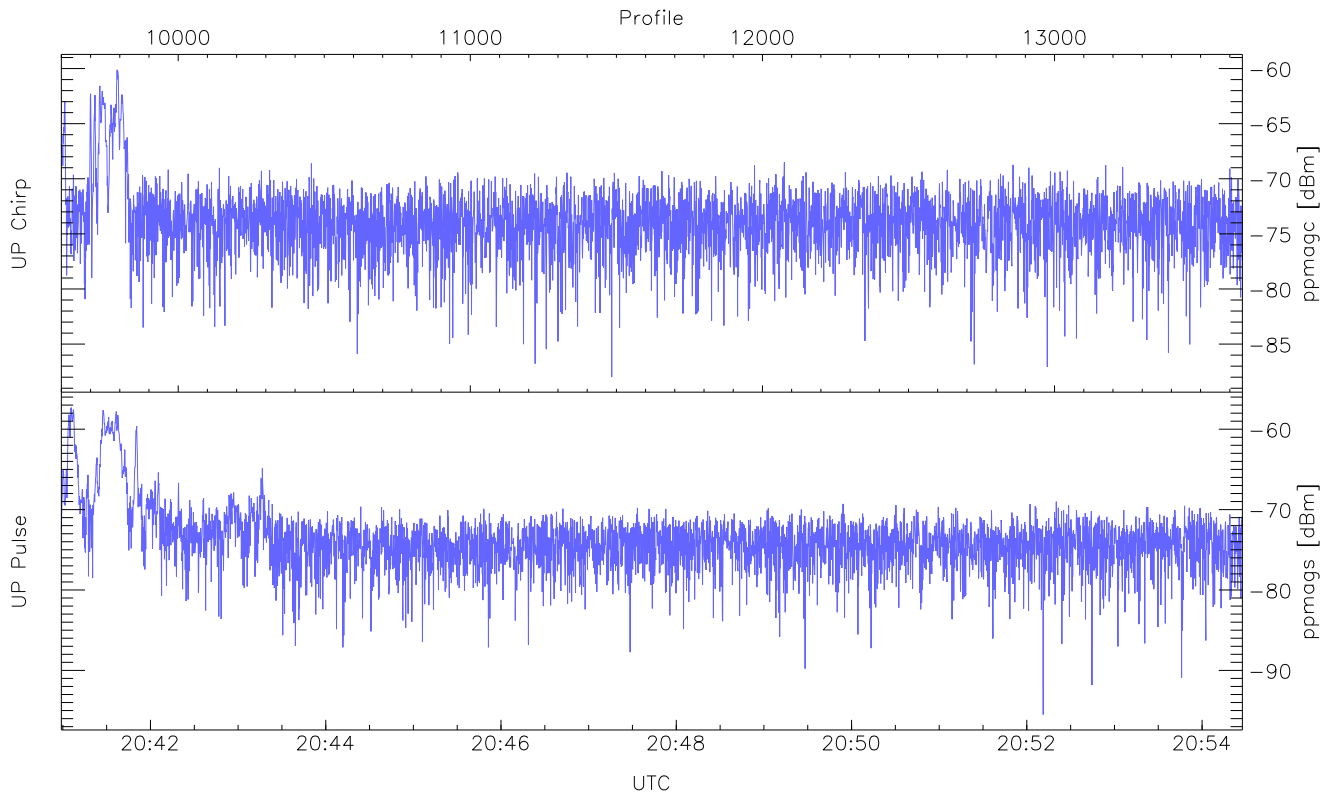
KPR SPP "Best" PPVEL noise (m/s):

	Min	Max	Mean	Median	StDev
UP_C_RM_0	-42.06	42.06	0.31	0.20	24.18
UP_P_RG317_0	-42.04	42.05	-0.09	-0.33	24.20
DOWN_C_WL_0	-42.05	42.04	0.31	0.55	24.65
DOWN_P_RG306_0	-42.04	42.05	-0.26	-0.44	24.03



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

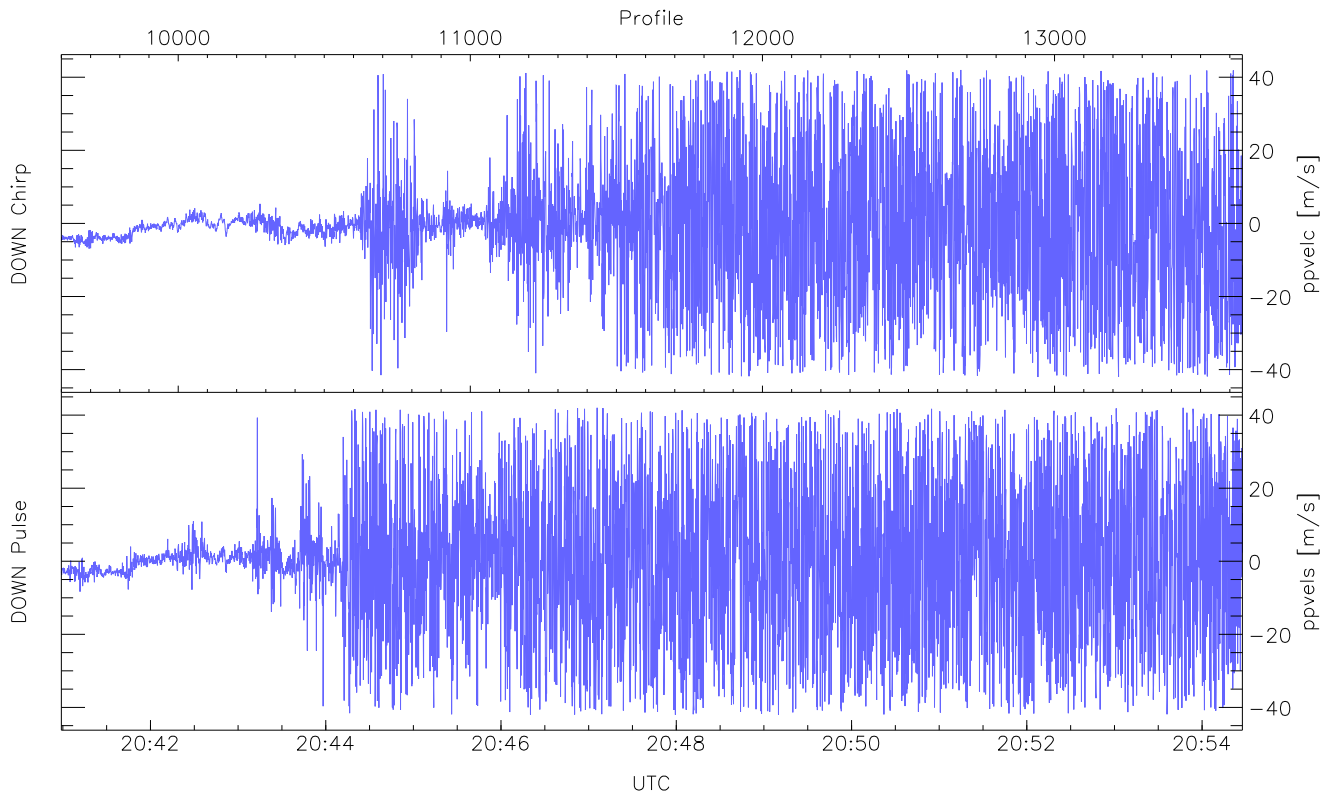
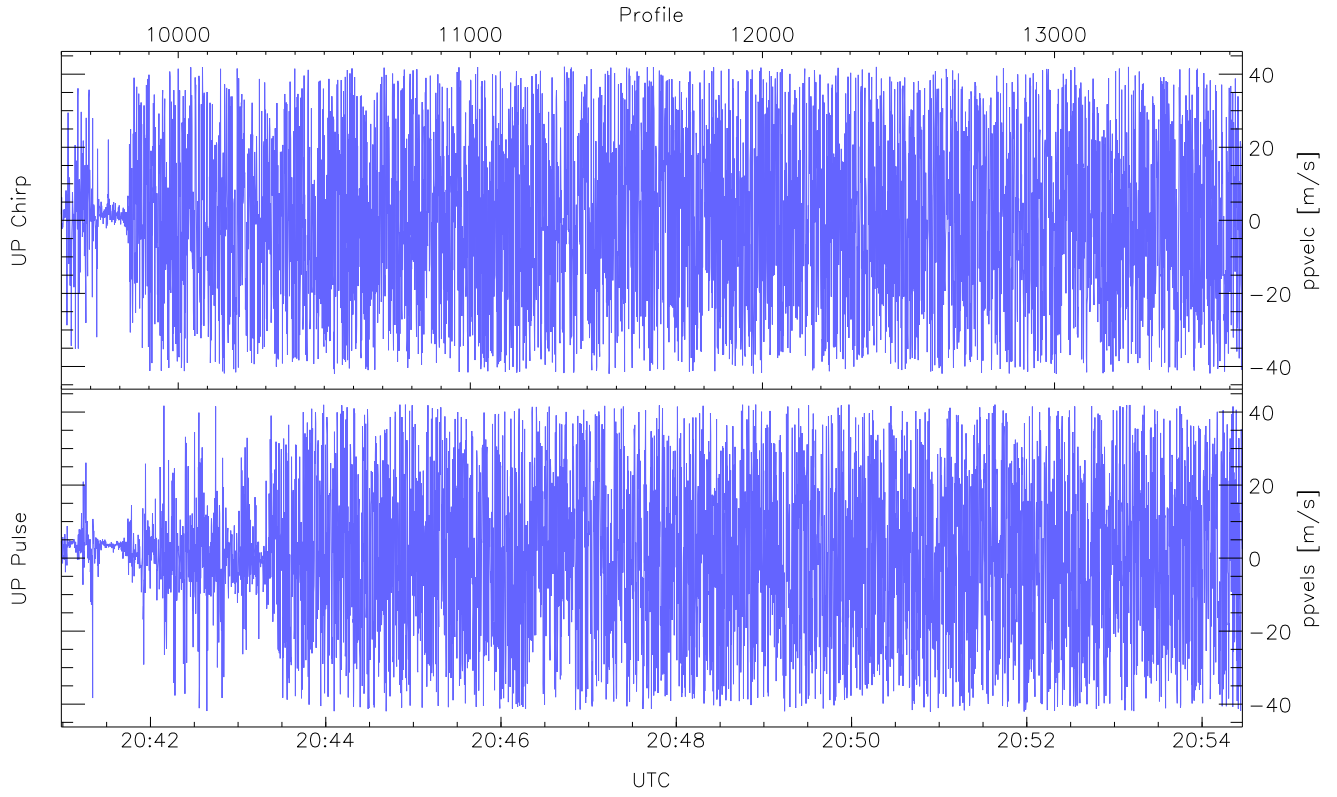
	Min	Max	Mean
UP Chirp(dBm)	-58.42	-55.78	-58.06
UP Pulse(dBm)	-58.91	-54.82	-58.38
DOWN Chirp(dBm)	-58.21	-50.32	-56.77
DOWN Pulse(dBm)	-58.67	-52.74	-57.92



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

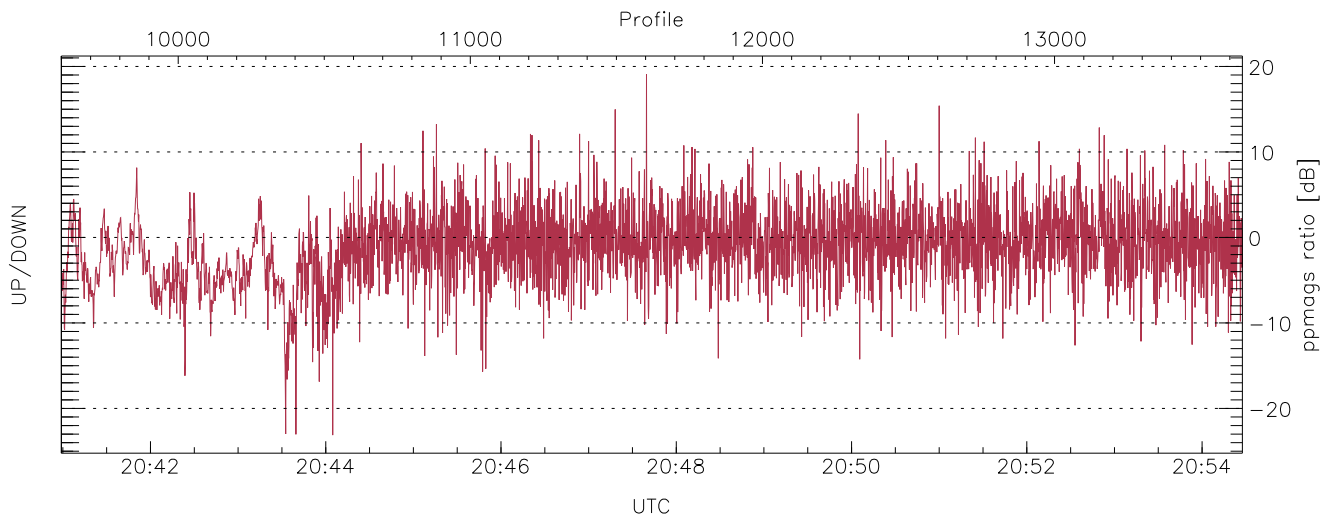
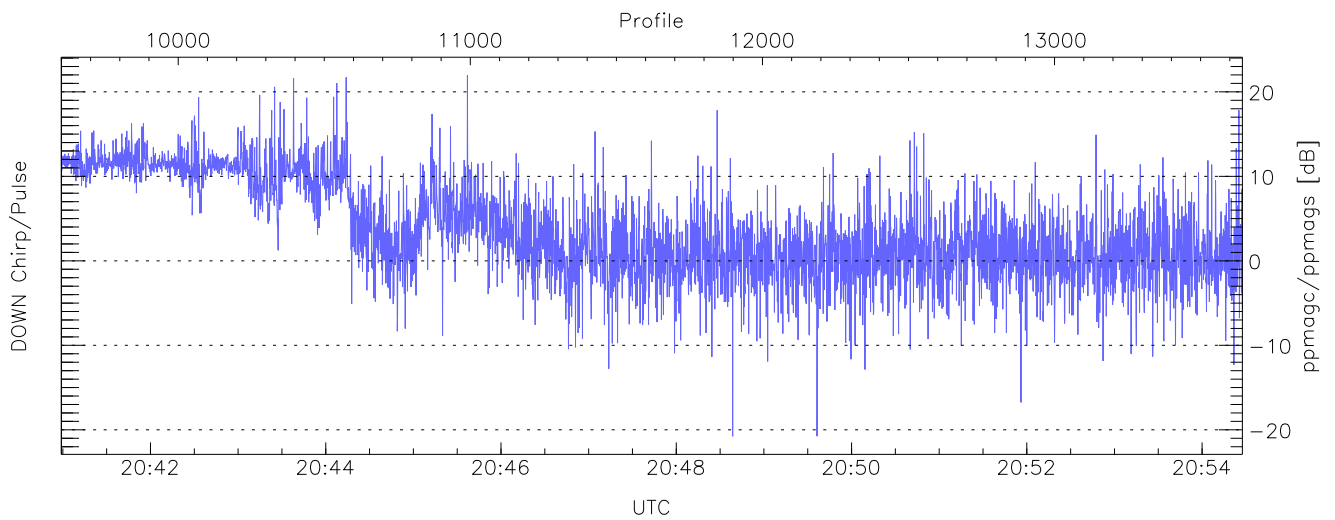
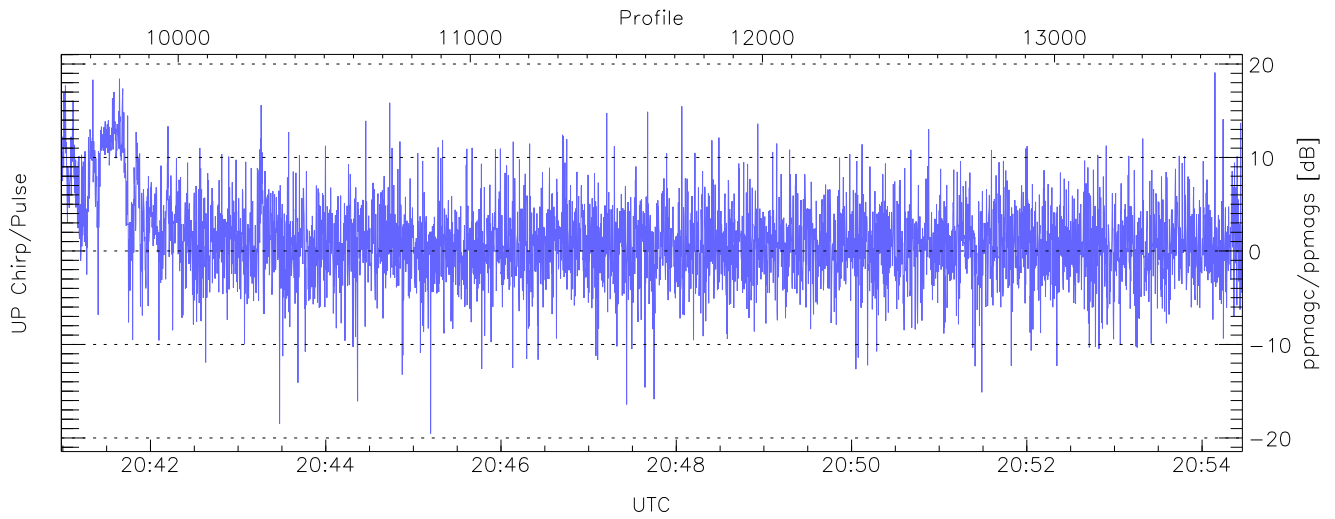
KPR SPP PPMAG for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-87.97	-60.11	-72.70
UP Pulse(dBm)	-95.50	-57.30	-71.18
DOWN Chirp(dBm)	-93.26	-51.54	-63.39
DOWN Pulse(dBm)	-88.82	-54.42	-67.88



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)	-42.01	42.03	-0.10
UP Pulse(m/s)	-42.05	42.05	0.08
DOWN Chirp(m/s)	-42.03	41.98	-0.65
DOWN Pulse(m/s)	-42.03	42.02	0.31



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

	Min	Max	Mean
UP Chirp/Pulse(dBm)	-19.53	19.09	3.84
DOWN Chirp/Pulse(dBm)	-20.77	21.96	7.25
UP/DOWN Ratio at Range 135.8 m			
	Min	Max	Mean
UP/DOWN(dB)	-23.12	19.11	1.00