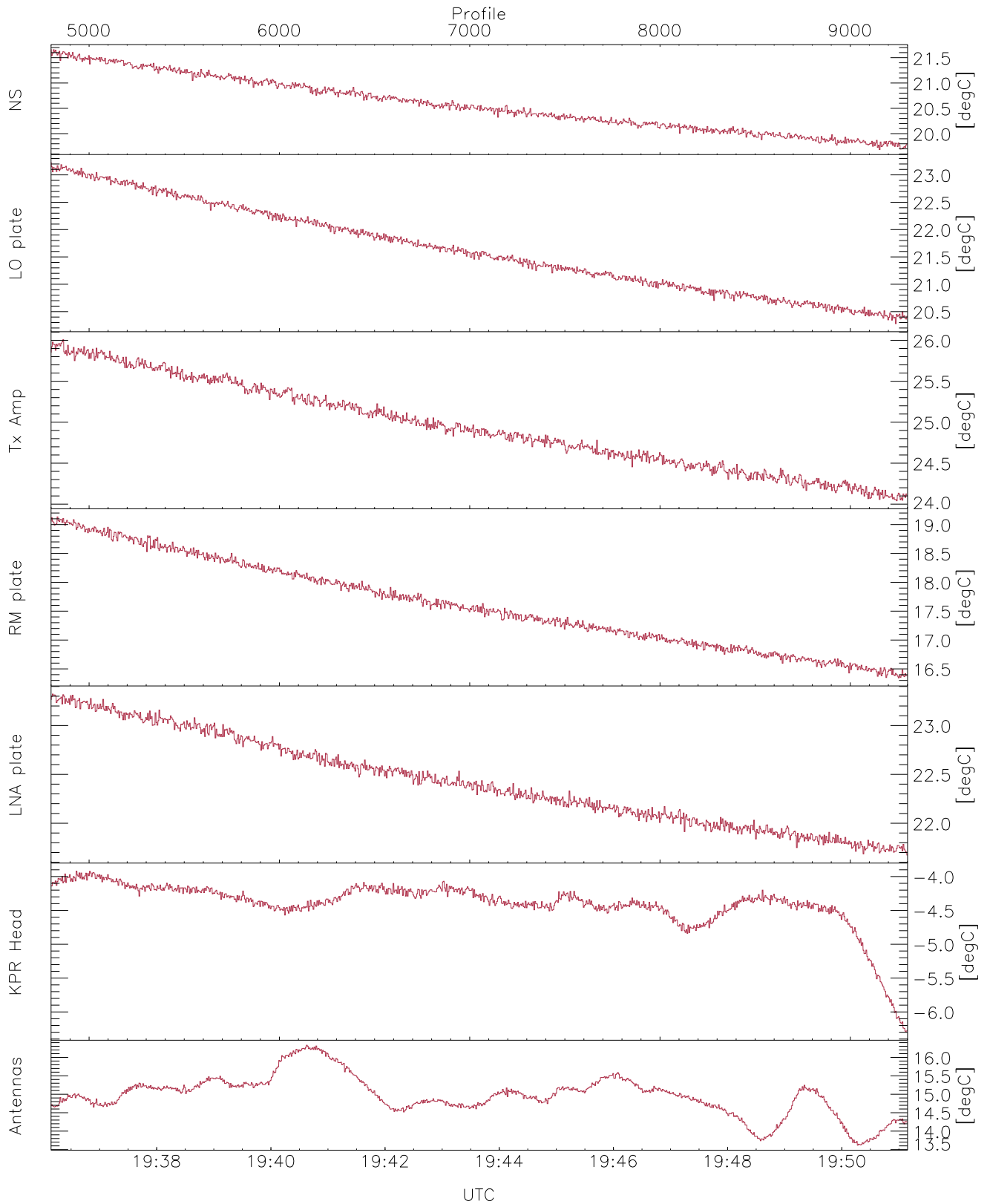


KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF  
 UTC: 19:20:09-19:51:09, TimeCor: 0.00s, Dur: 900.20s  
 TimeInt(min,max,mn,std): 192.1,207.9,200.0,0.3 ms; PPS: 5.0  
 NumRec(r/t): 4502/9302, 4800-9301/19:36:09-19:51:09  
 AcqTime(req,actual): 200.0,200.0 ms, Data Rate: 187.6 KB/s  
 Pulse: 247 ns, Chirp: 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

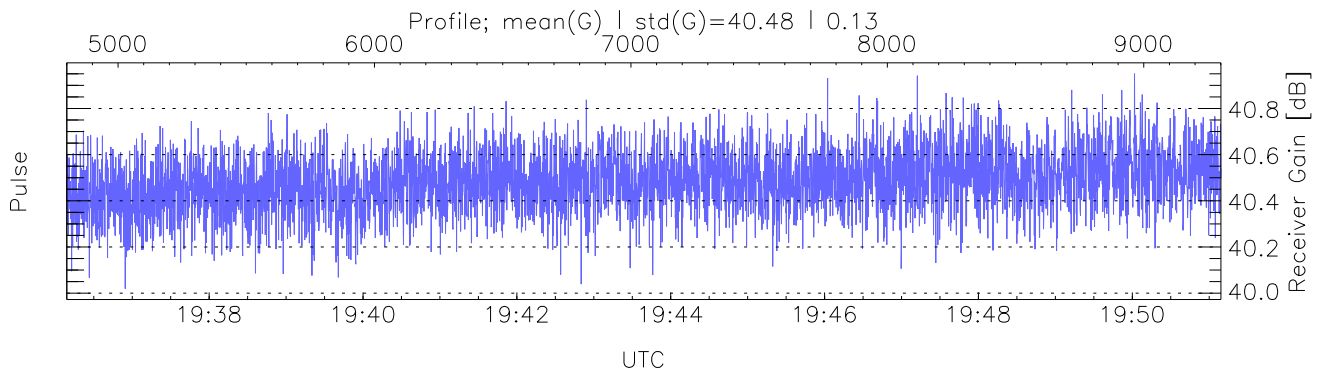
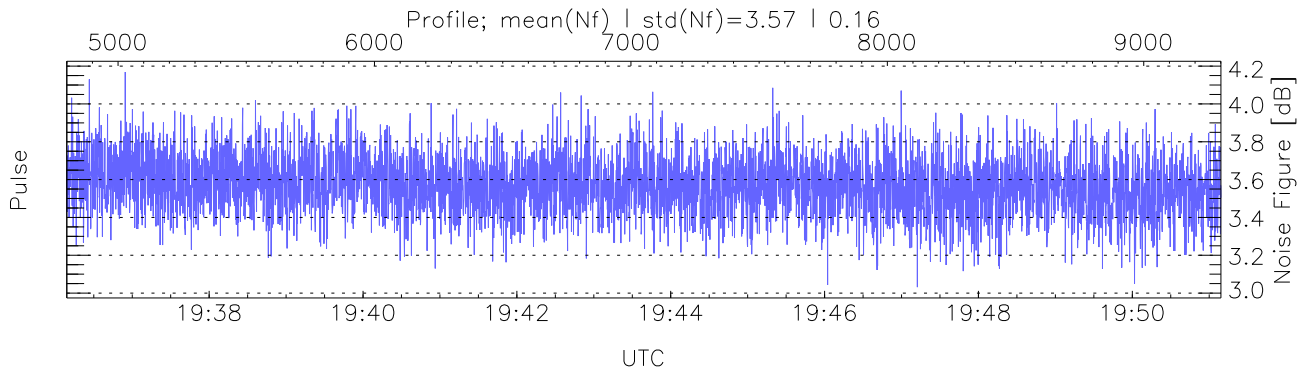
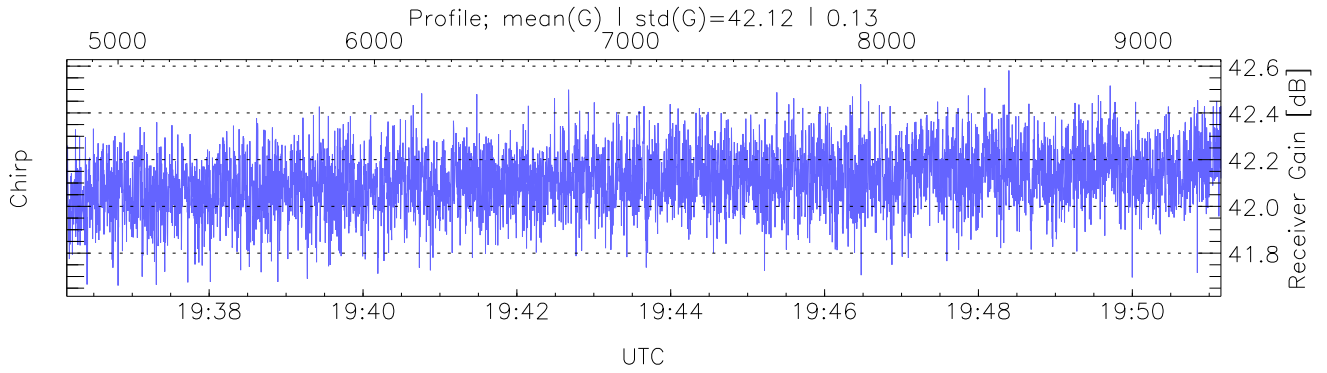
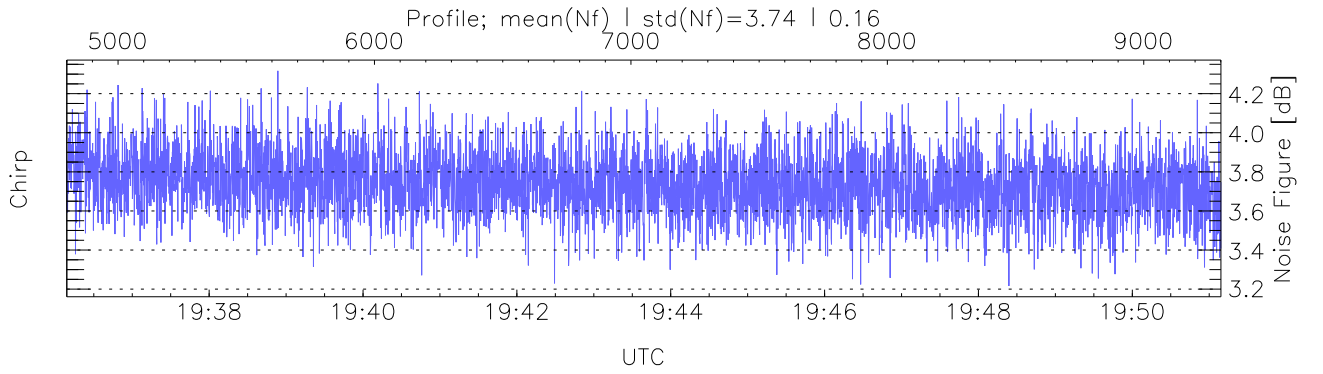


KPR SPP Temperatures, Power Supplies, PLO lock:

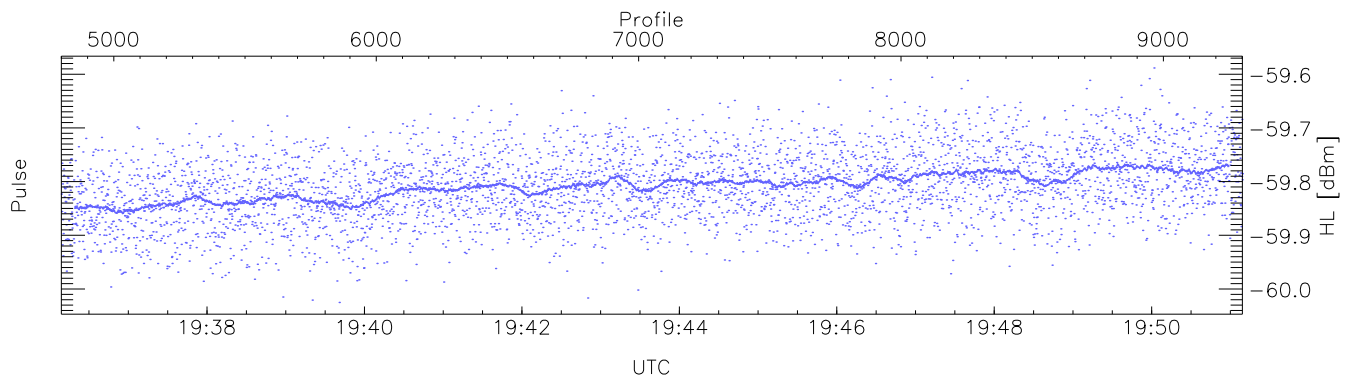
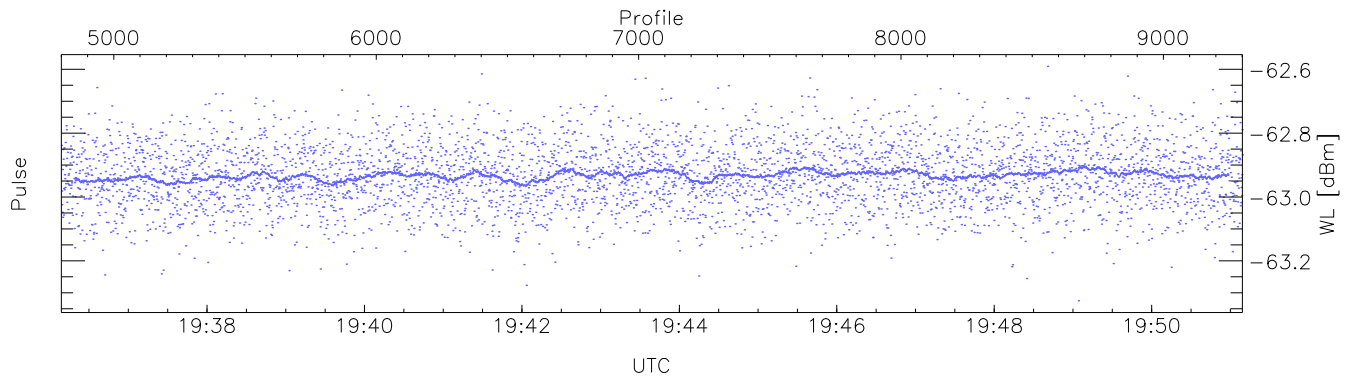
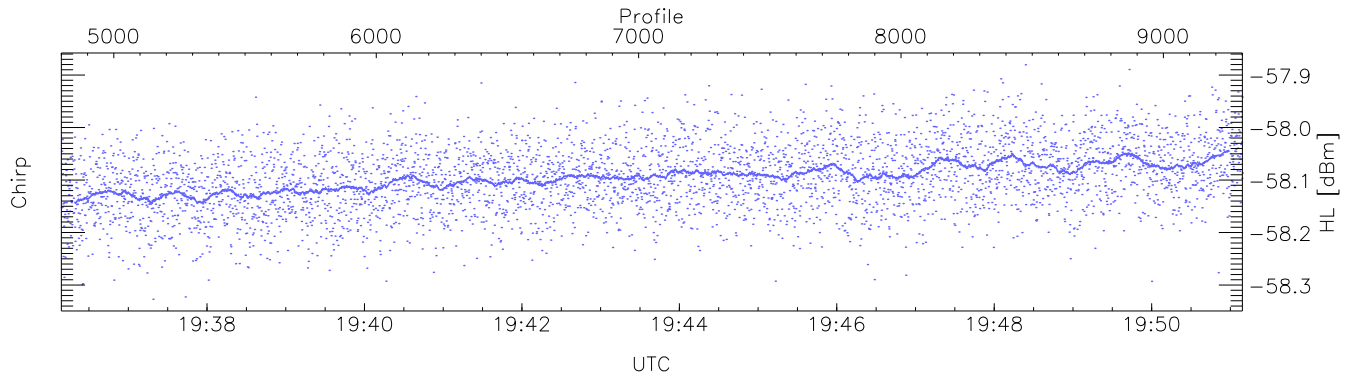
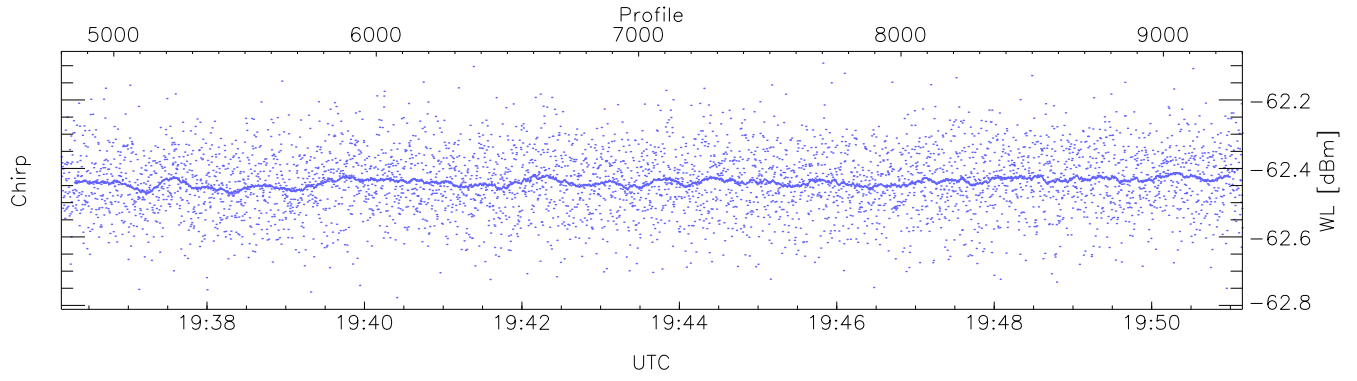
temperature:	NS,	LO,	Tx,	RM,	LNA,	Head,	Ant
mintempC:	19.7,	20.3,	24.0,	16.3,	21.7,	-6.3,	13.6
maxtempC:	21.7,	23.2,	26.0,	19.1,	23.3,	-3.9,	16.3
meantempC:	20.6,	21.6,	24.9,	17.6,	22.4,	-4.4,	15.0

PwrSply:	28,	12,	8,	5 VDC
minVDC:	25.99,	11.68,	7.87,	5.22
maxVDC:	27.71,	11.73,	7.90,	5.23
meanVDC:	27.01,	11.71,	7.88,	5.22

PLO(3.84,15.84 GHz) unlocked: None

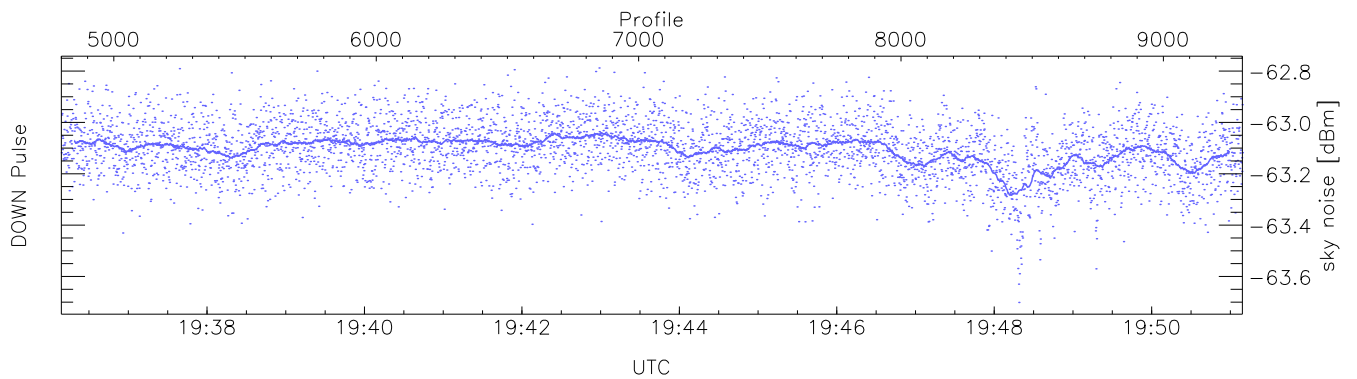
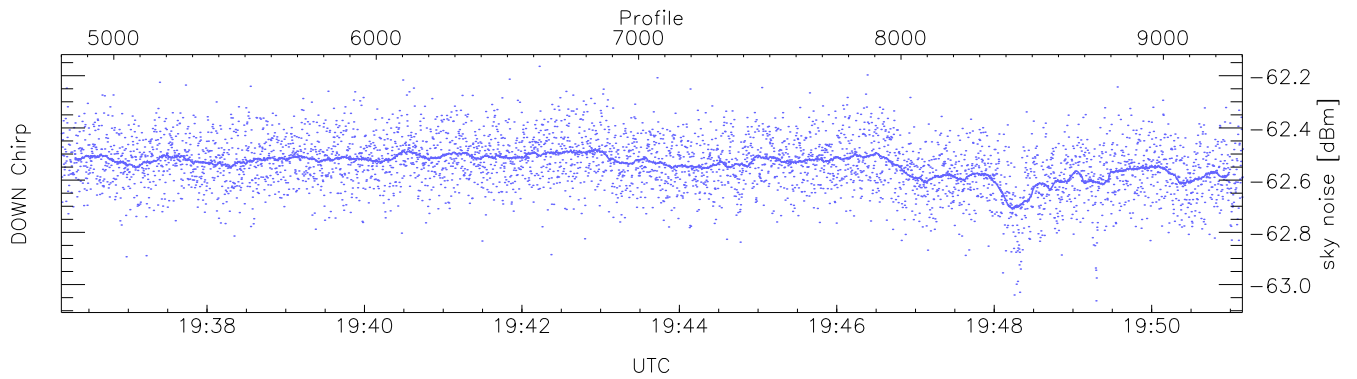
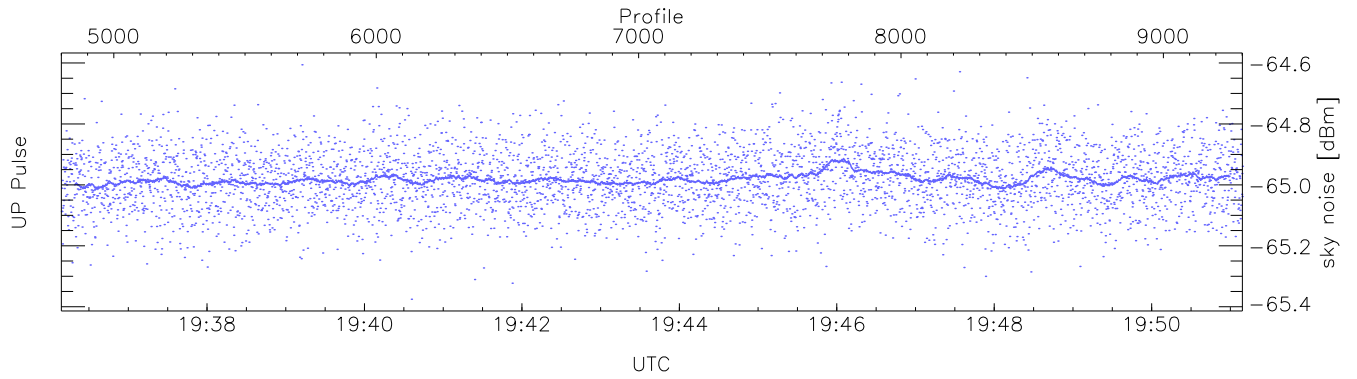
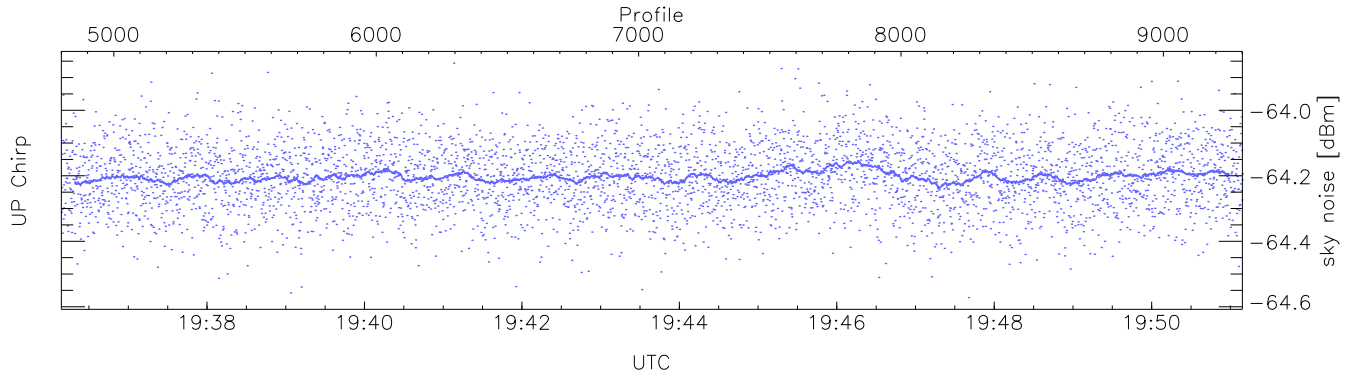


KPR SPP Receiver Gain and Noise Figure



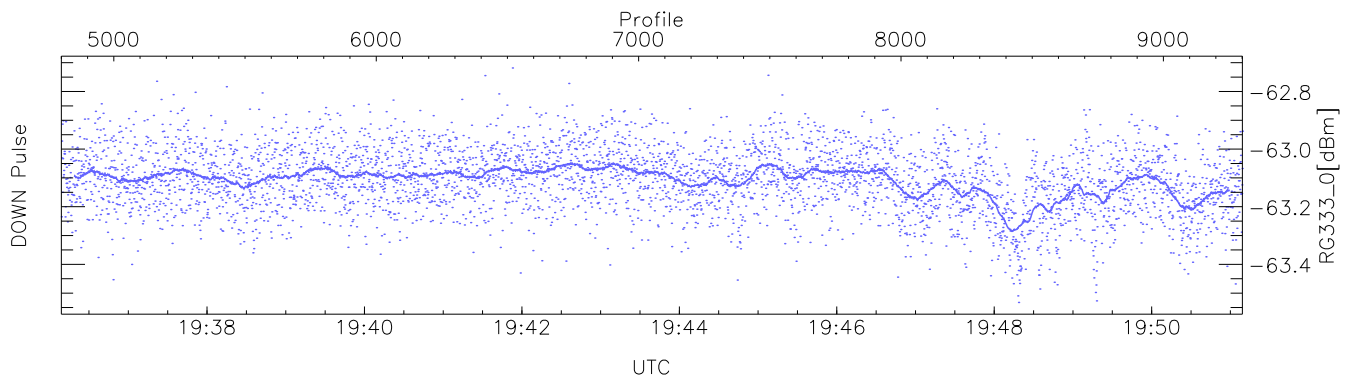
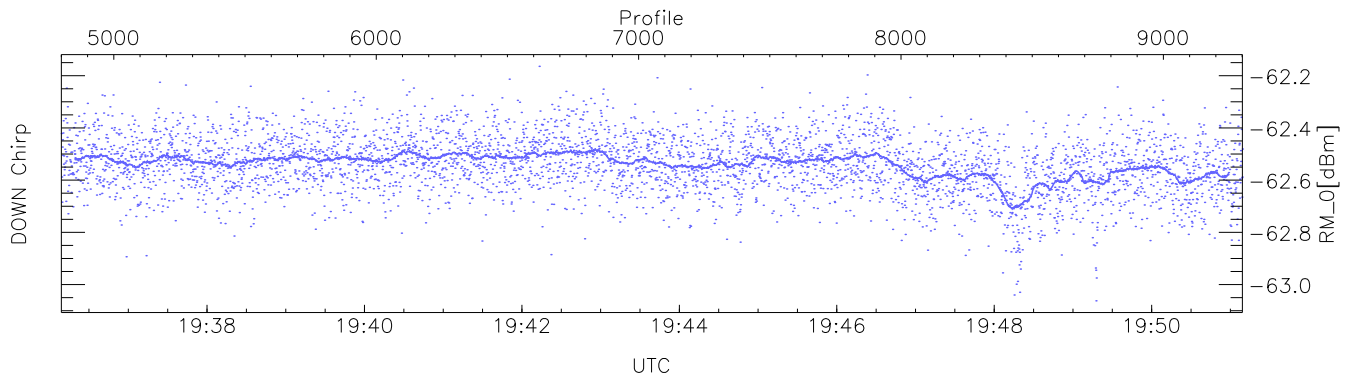
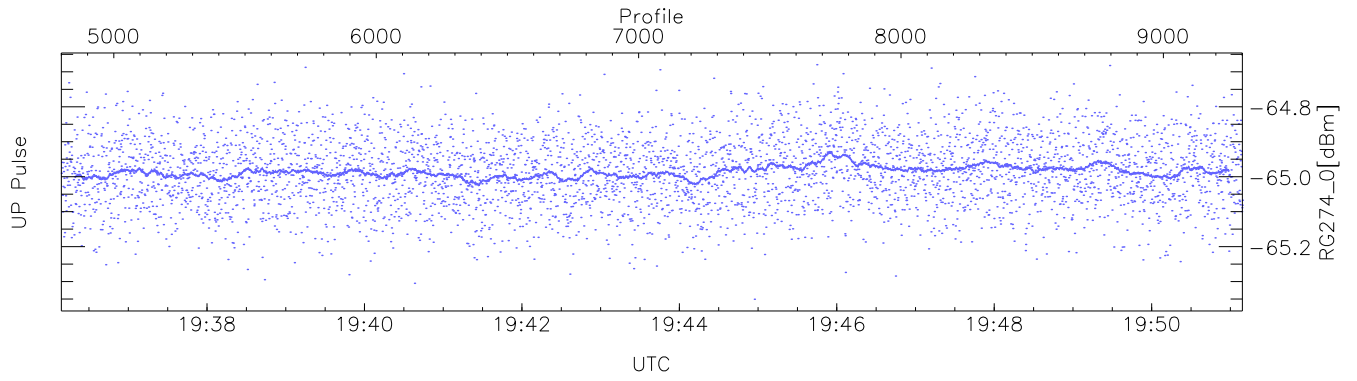
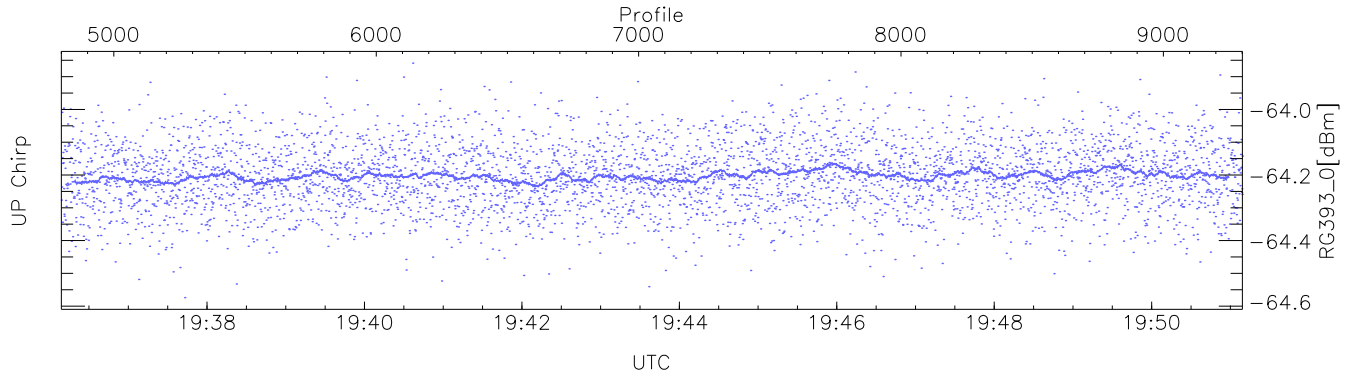
KPR SPP Receiver Noise Source Warm and Hot Measurements

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-62.78	-62.09	-62.44	-62.44	-78.92
Chirp(HL [dBm])	-58.33	-57.88	-58.10	-58.10	-76.44
Pulse(WL [dBm])	-63.33	-62.59	-62.93	-62.93	-79.42
Pulse(HL [dBm])	-60.03	-59.59	-59.81	-59.81	-78.17



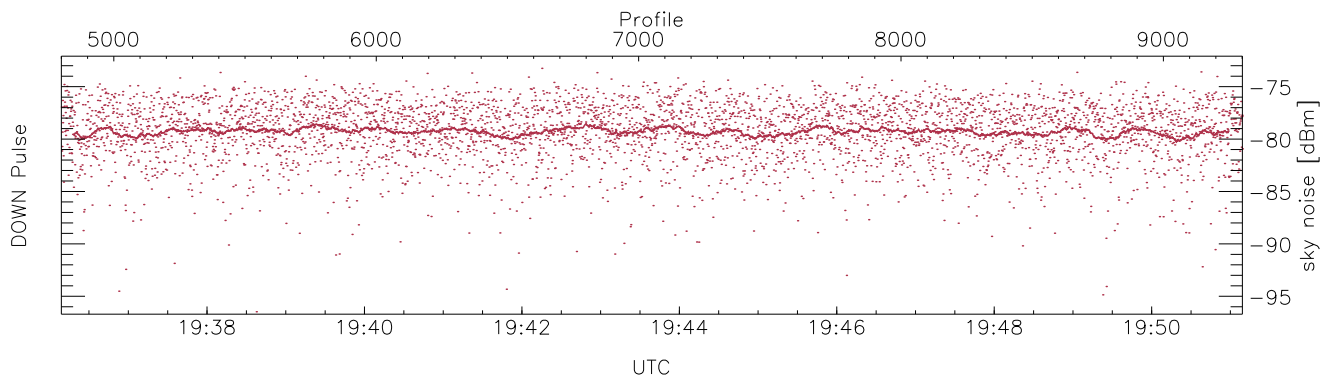
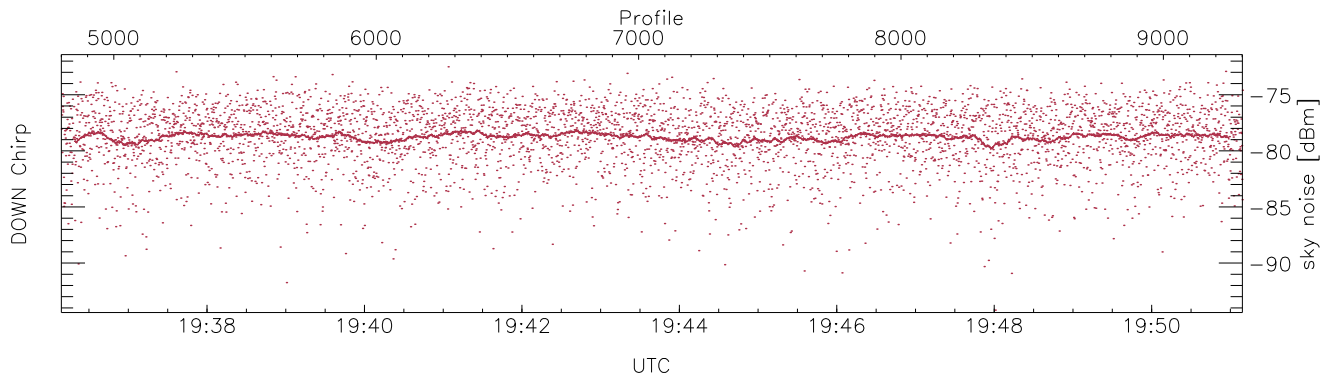
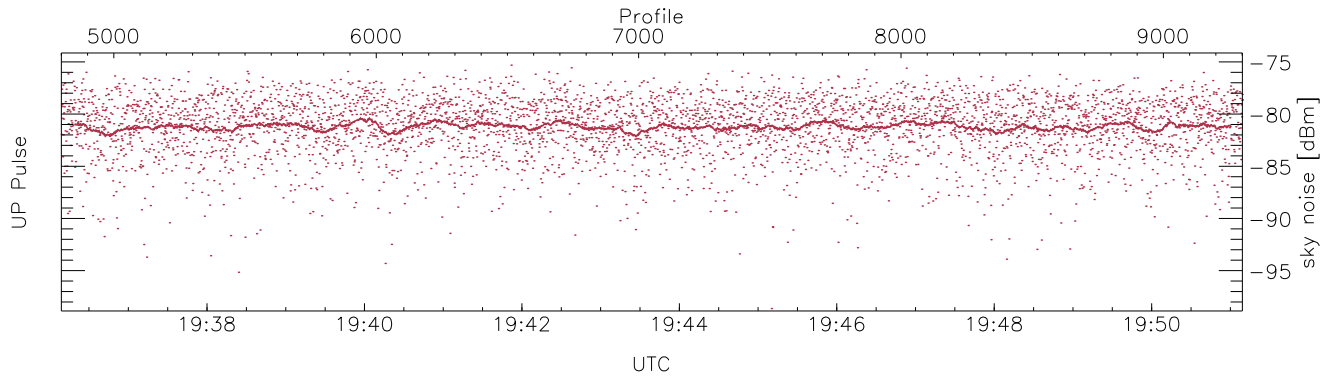
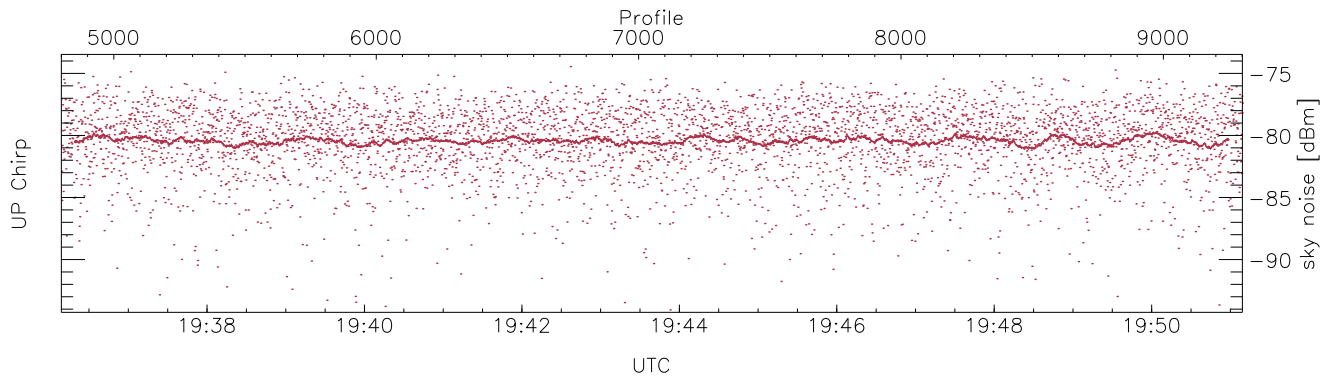
KPR SPP Last range gate power measurements: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-64.57	-63.86	-64.20	-64.20	-80.62
UP Pulse(dBm)	-65.38	-64.61	-64.98	-64.98	-81.49
DOWN Chirp(dBm)	-63.06	-62.16	-62.54	-62.54	-78.59
DOWN Pulse(dBm)	-63.70	-62.79	-63.10	-63.10	-79.13



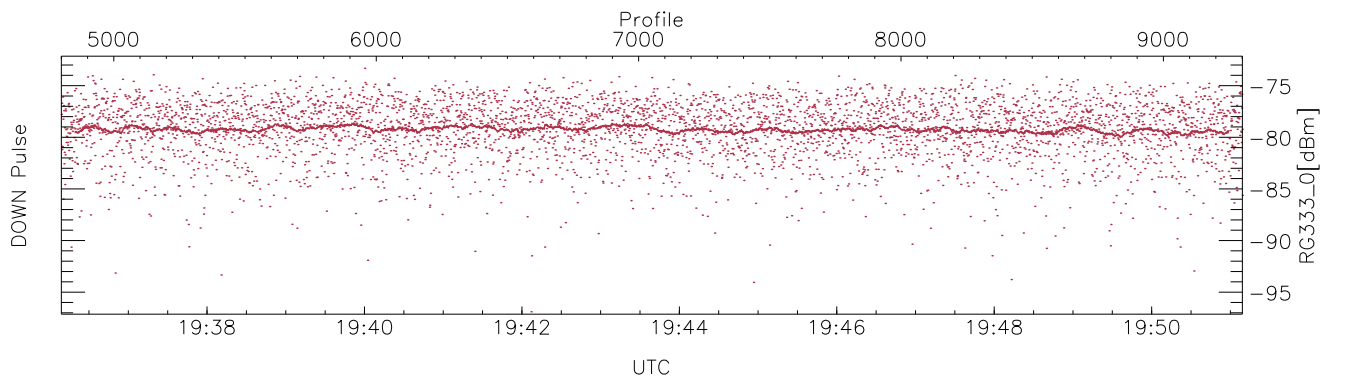
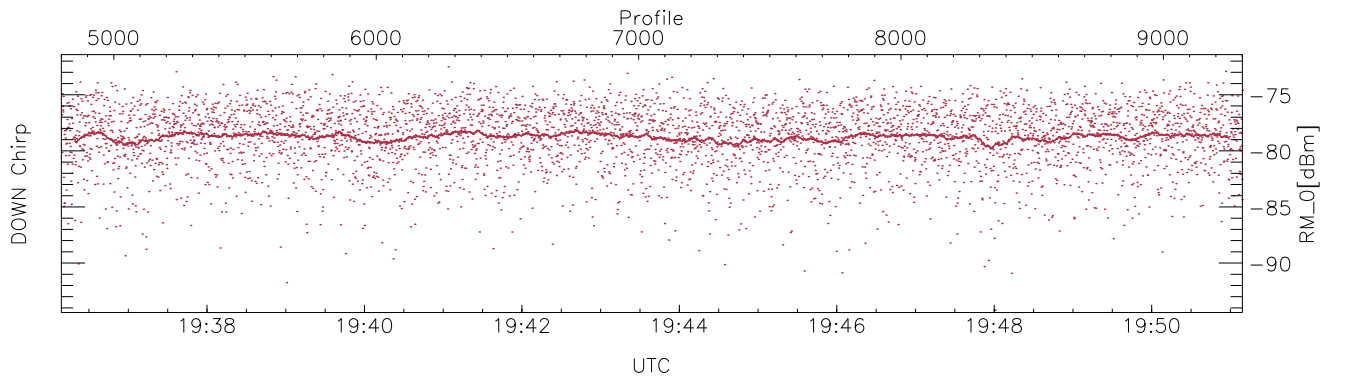
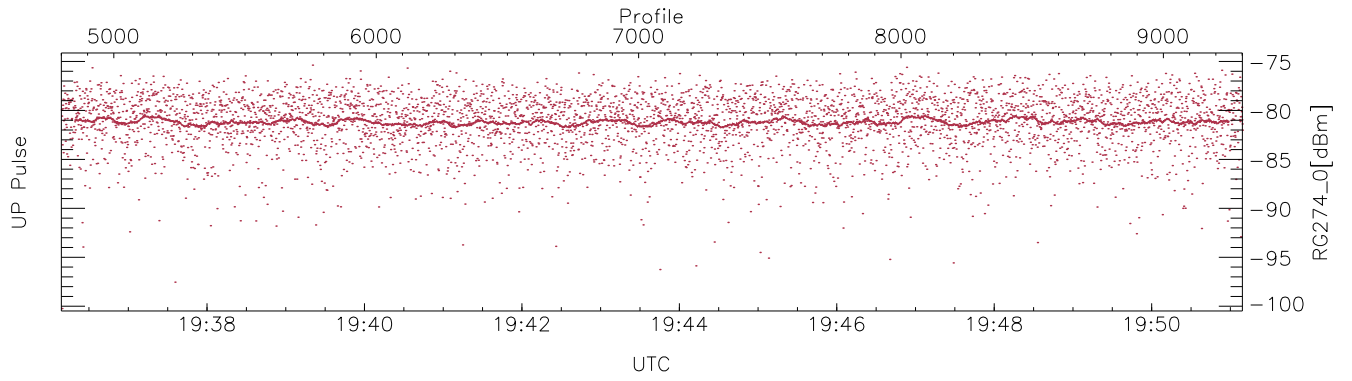
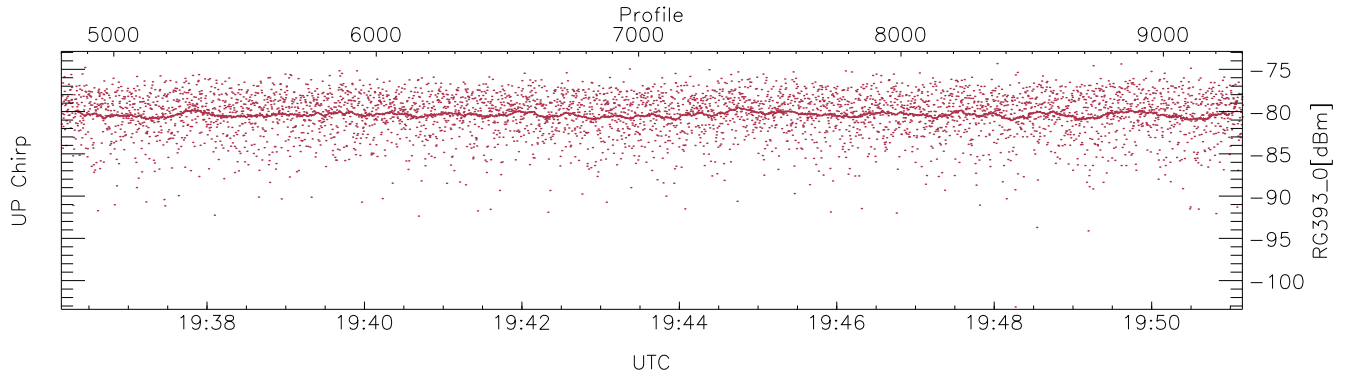
KPR SPP "Best" noise power measurements (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RG393_0	-64.57	-63.86	-64.20	-64.20	-80.66
UP_P_RG274_0	-65.35	-64.68	-64.99	-64.99	-81.52
DOWN_C_RM_0	-63.06	-62.16	-62.54	-62.54	-78.59
DOWN_P_RG333_0	-63.53	-62.72	-63.11	-63.11	-79.10



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

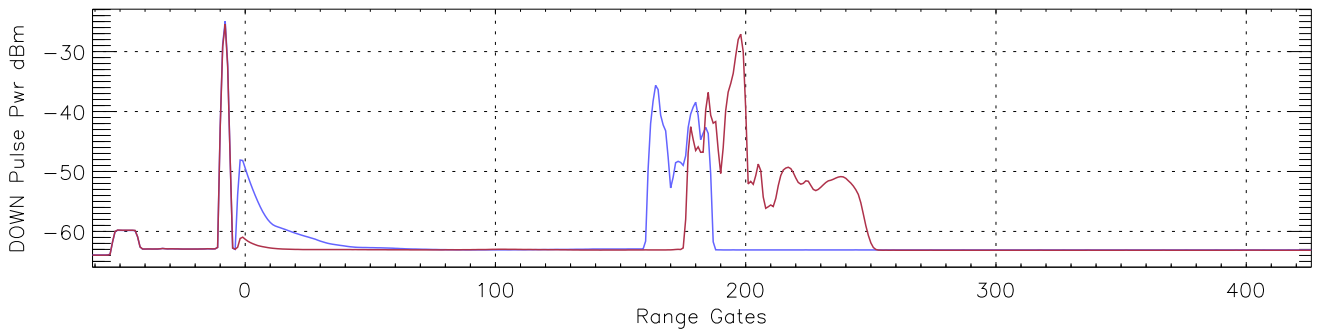
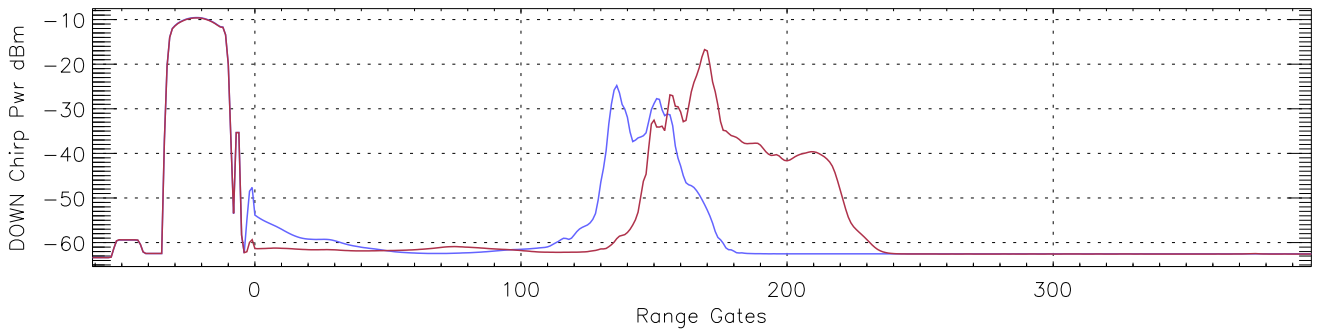
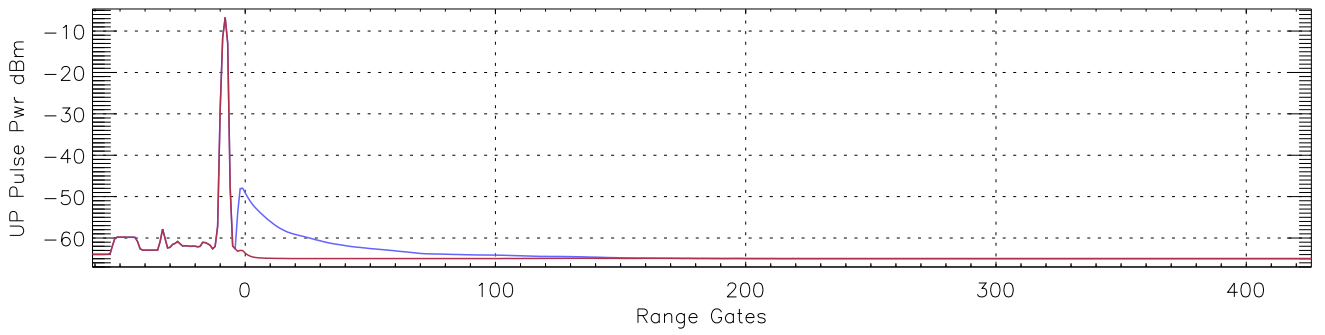
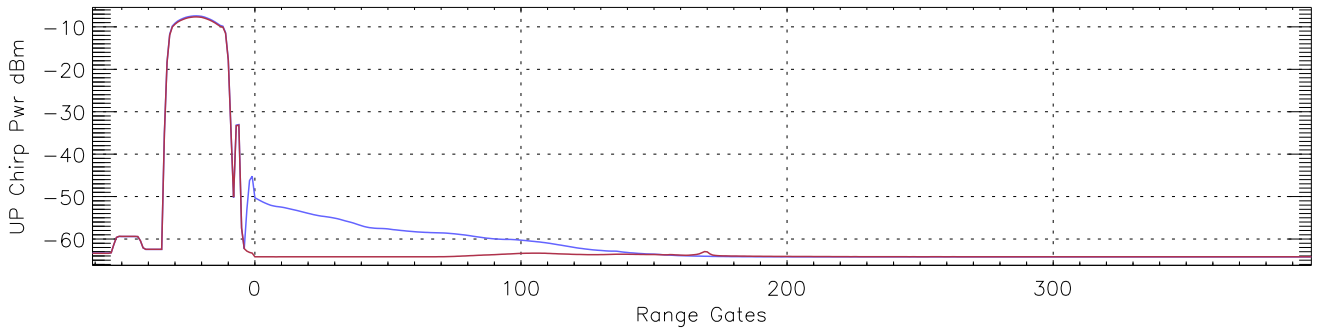
	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-94.06	-74.45	-79.71	-79.97	-82.54
UP Pulse(dBm)	-98.63	-75.31	-80.49	-80.80	-83.27
DOWN Chirp(dBm)	-94.20	-72.51	-78.07	-78.38	-80.85
DOWN Pulse(dBm)	-96.47	-73.26	-78.58	-78.91	-81.40



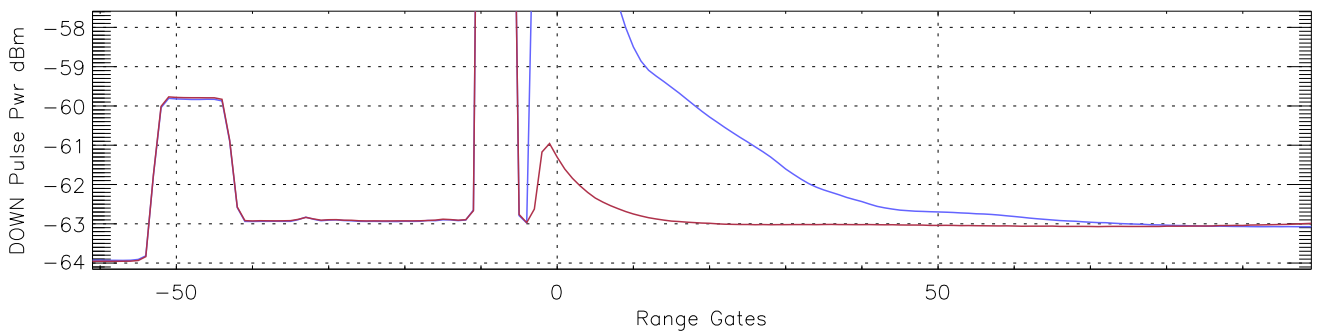
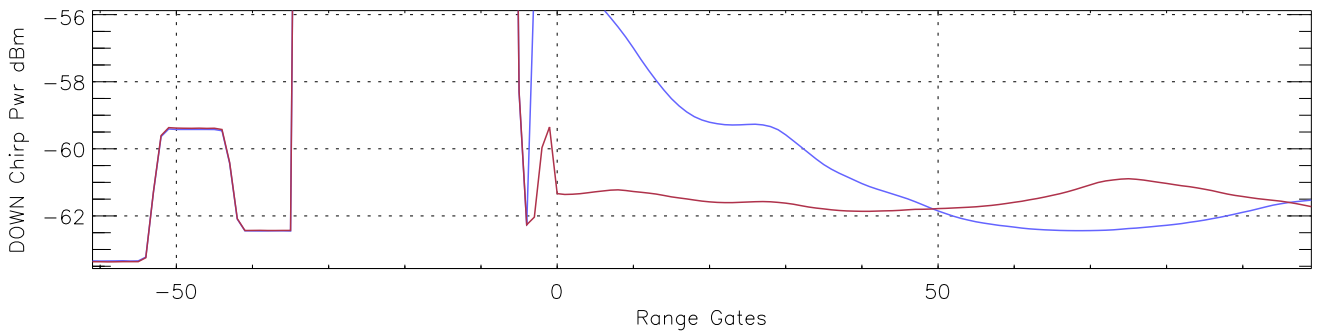
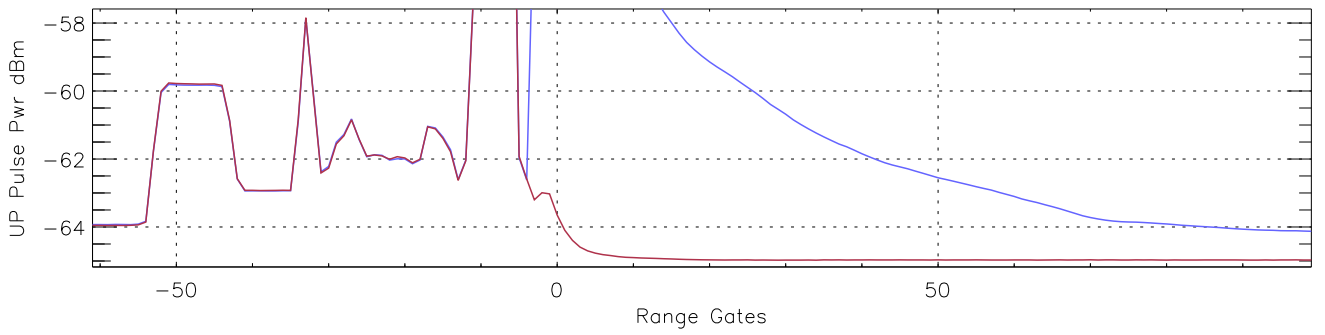
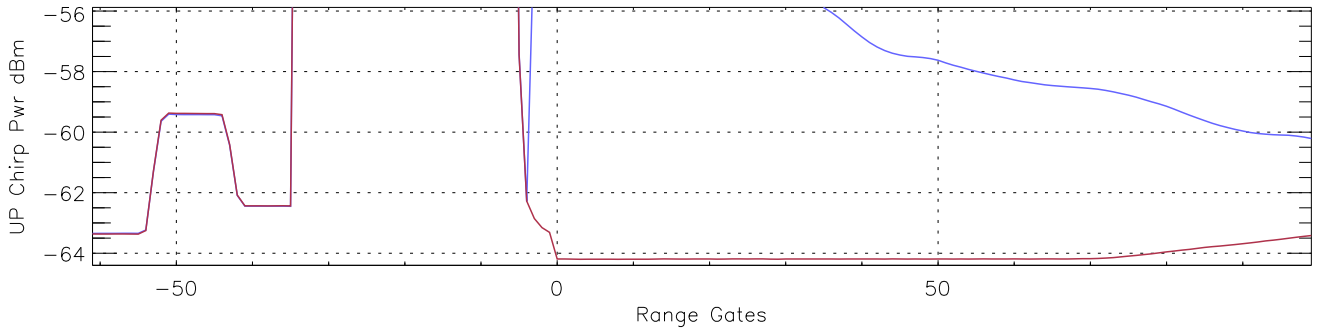
KPR SPP "Best" PPMAG noise (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RG393_0	-103.11	-74.32	-79.69	-79.88	-82.60
UP_P_RG274_0	-100.23	-75.38	-80.48	-80.74	-83.33
DOWN_C_RM_0	-94.20	-72.51	-78.07	-78.38	-80.85
DOWN_P_RG333_0	-96.89	-73.33	-78.54	-78.83	-81.36

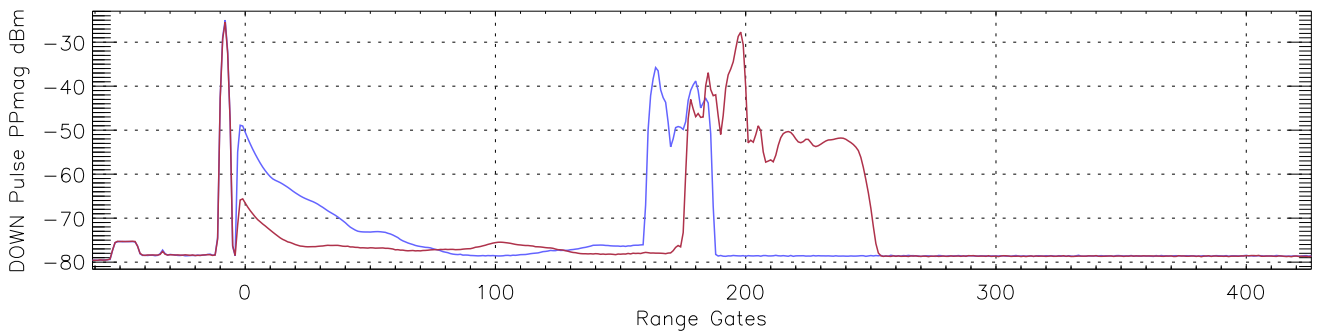
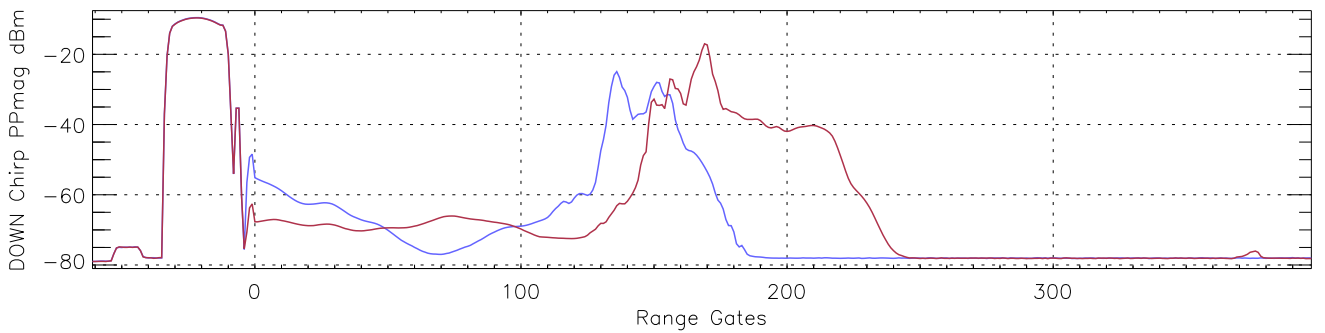
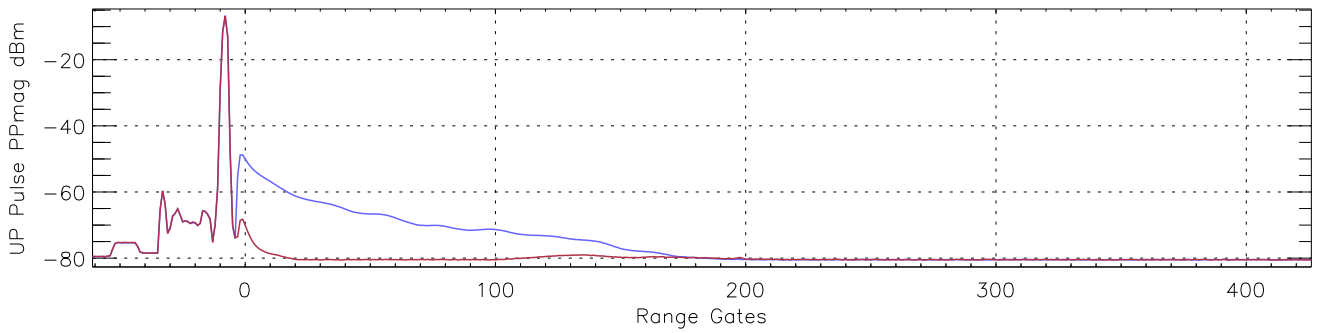
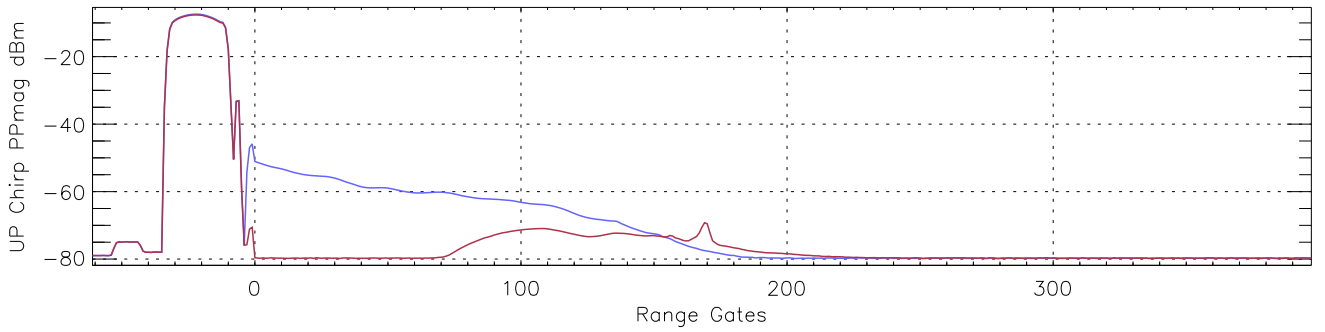




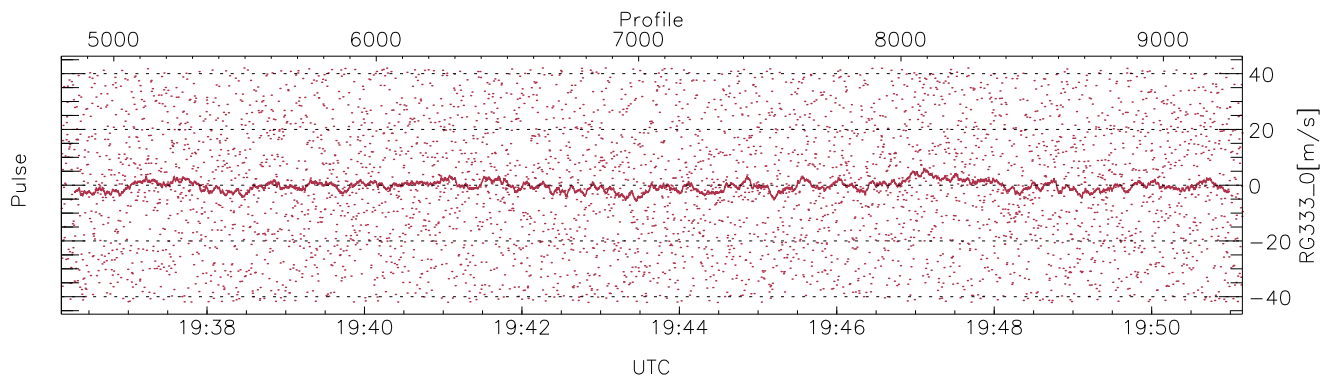
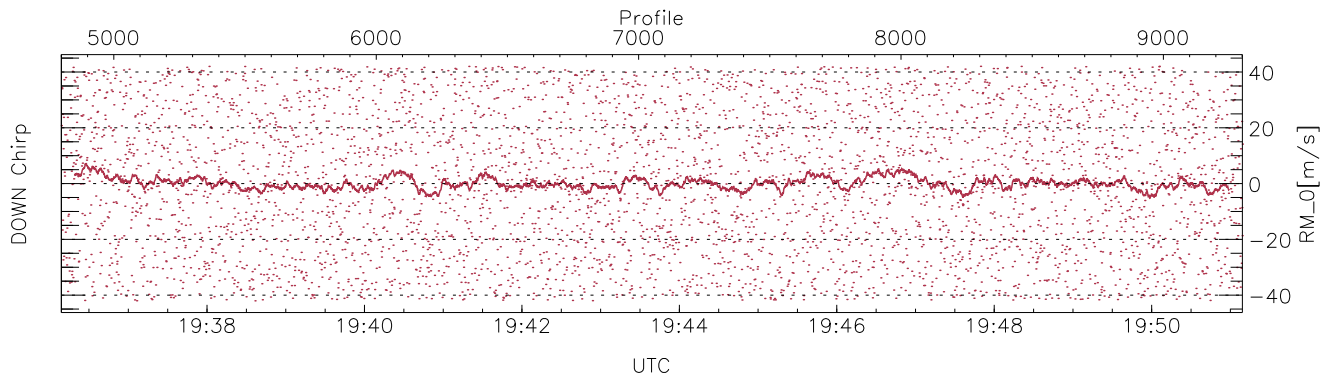
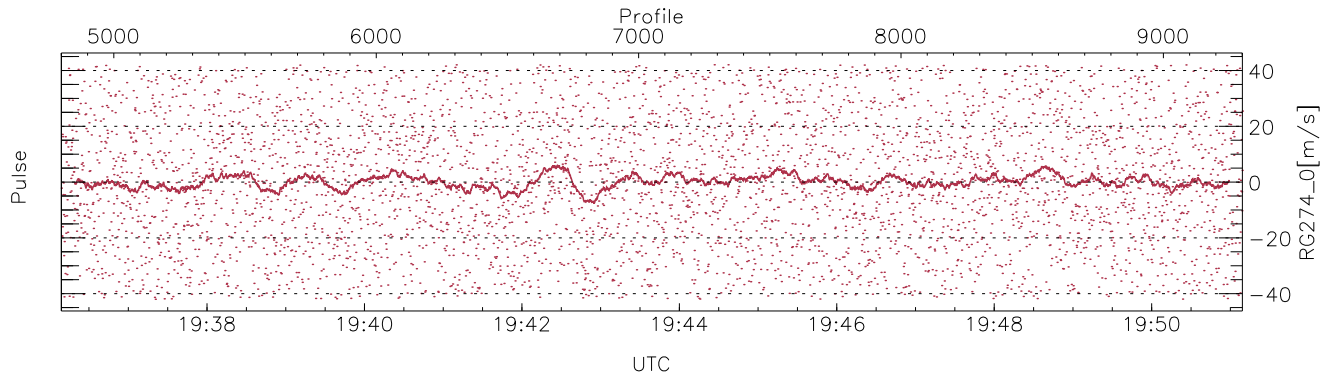
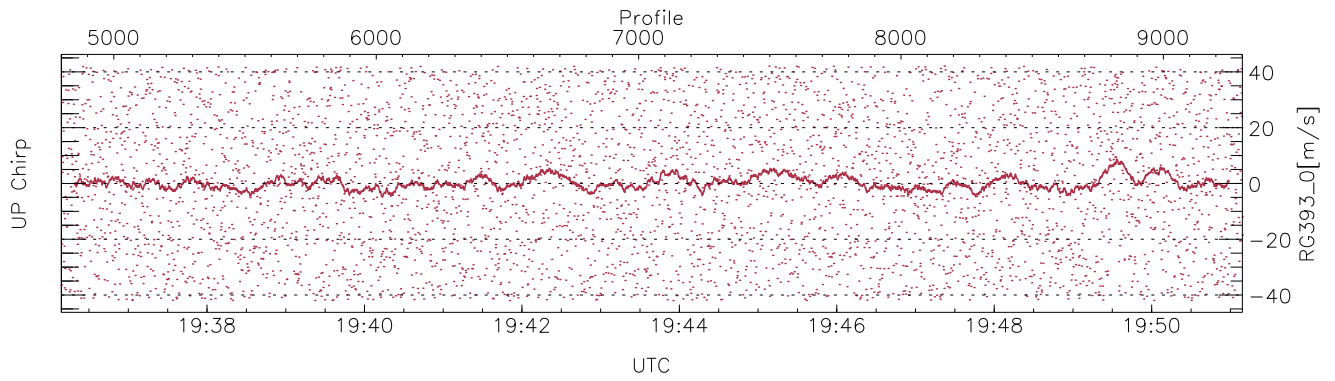
KPR SPP Averaged Received power for all recorded gates  
blue: 193609-194339, 2252 profiles averaged  
red: 194339-195109, 2251 profiles averaged



KPR SPP Averaged Power for neg. gates & up to 100 gates  
blue: 193609-194339, 2252 profiles averaged  
red: 194339-195109, 2251 profiles averaged

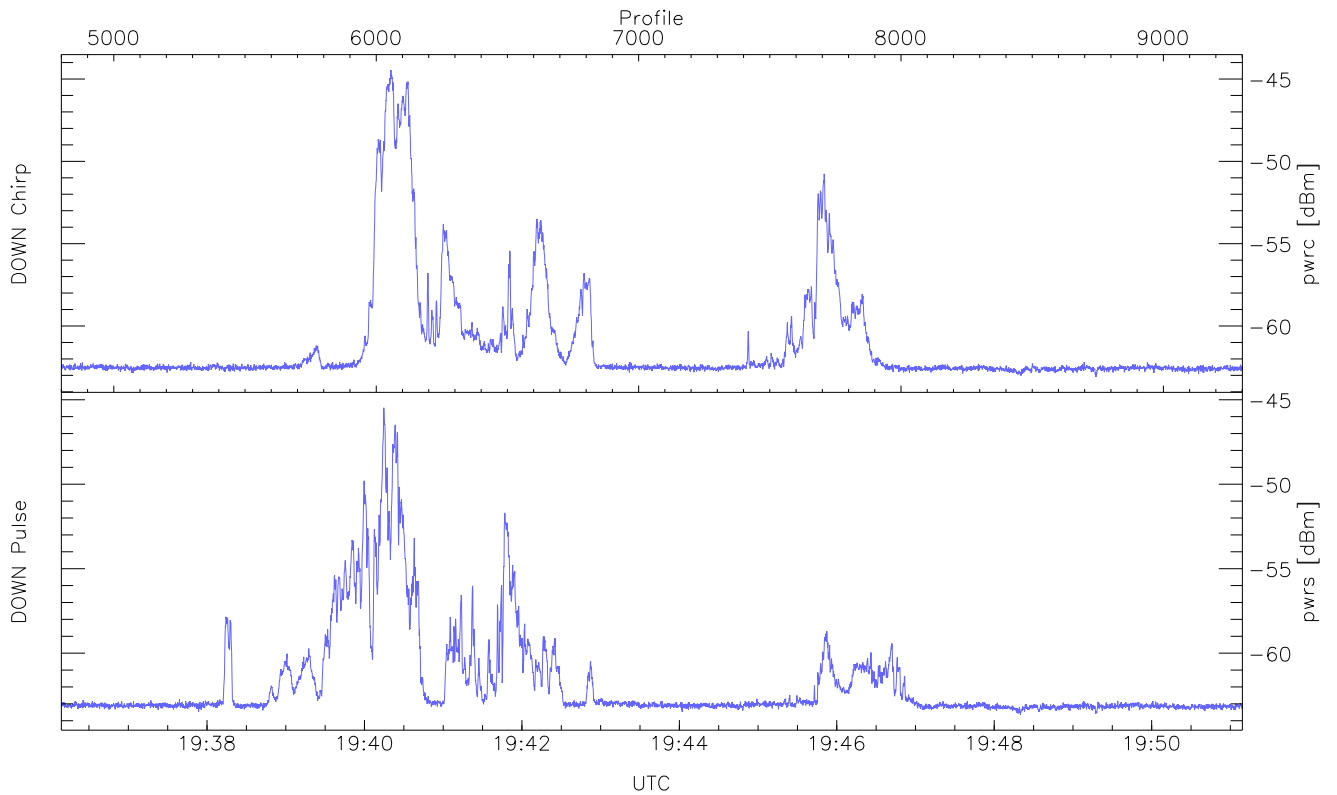
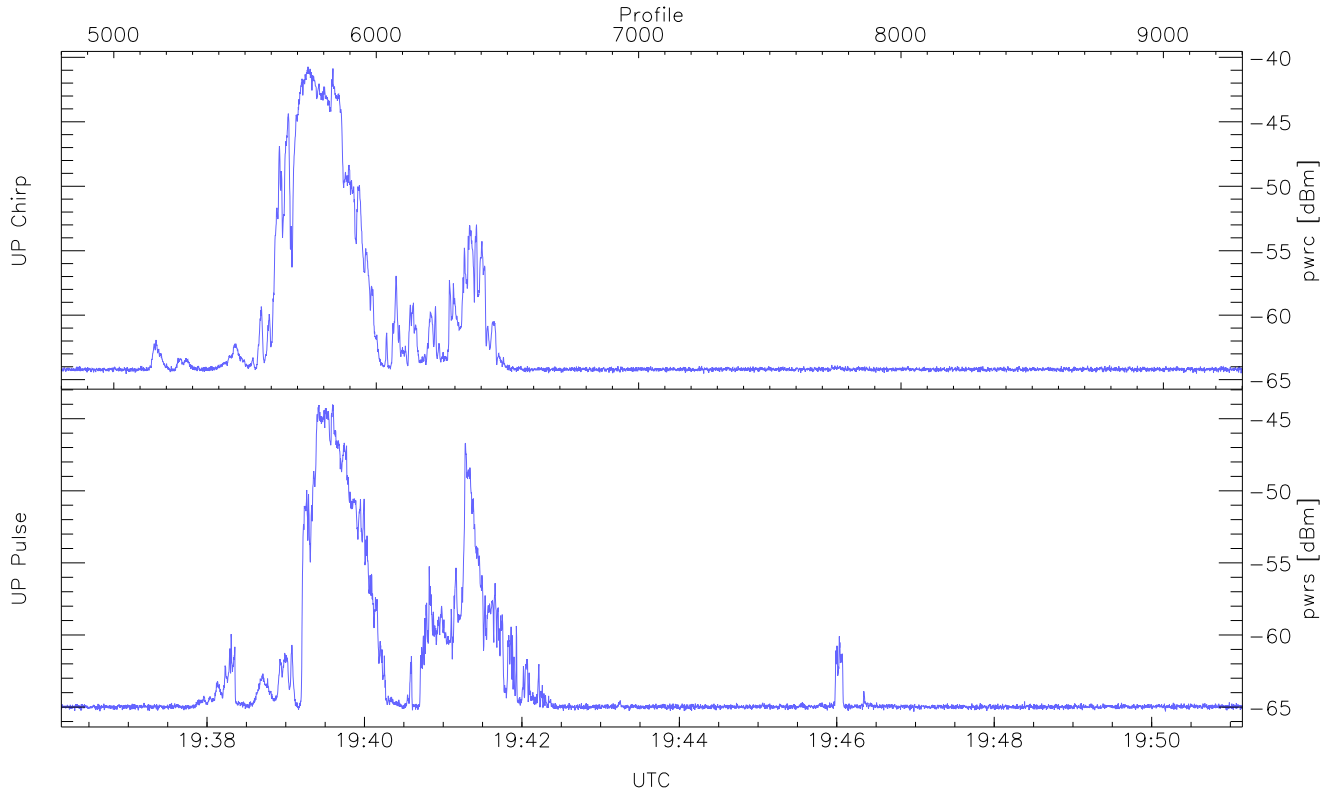


KPR SPP Averaged PP magnitude for all recorded gates  
blue: 193609-194339, 2252 profiles averaged  
red: 194339-195109, 2251 profiles averaged



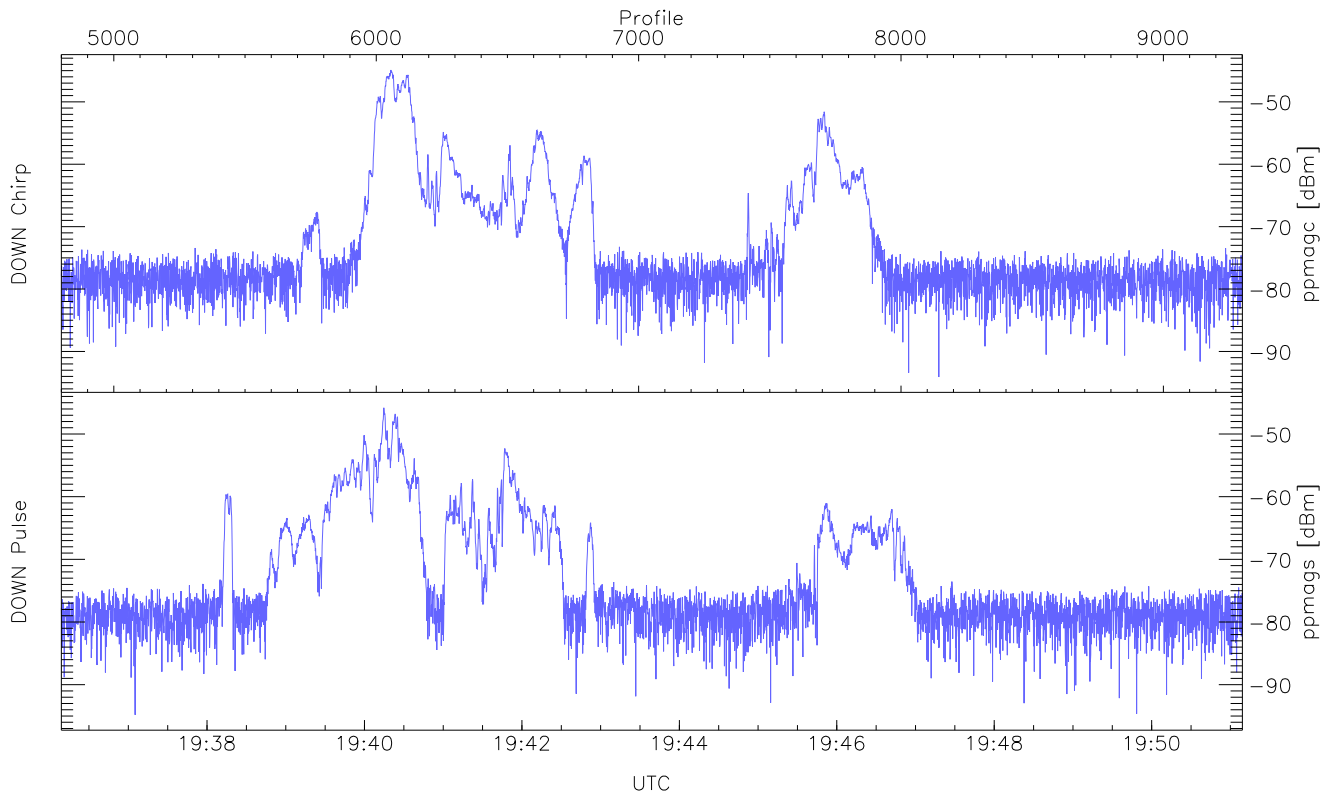
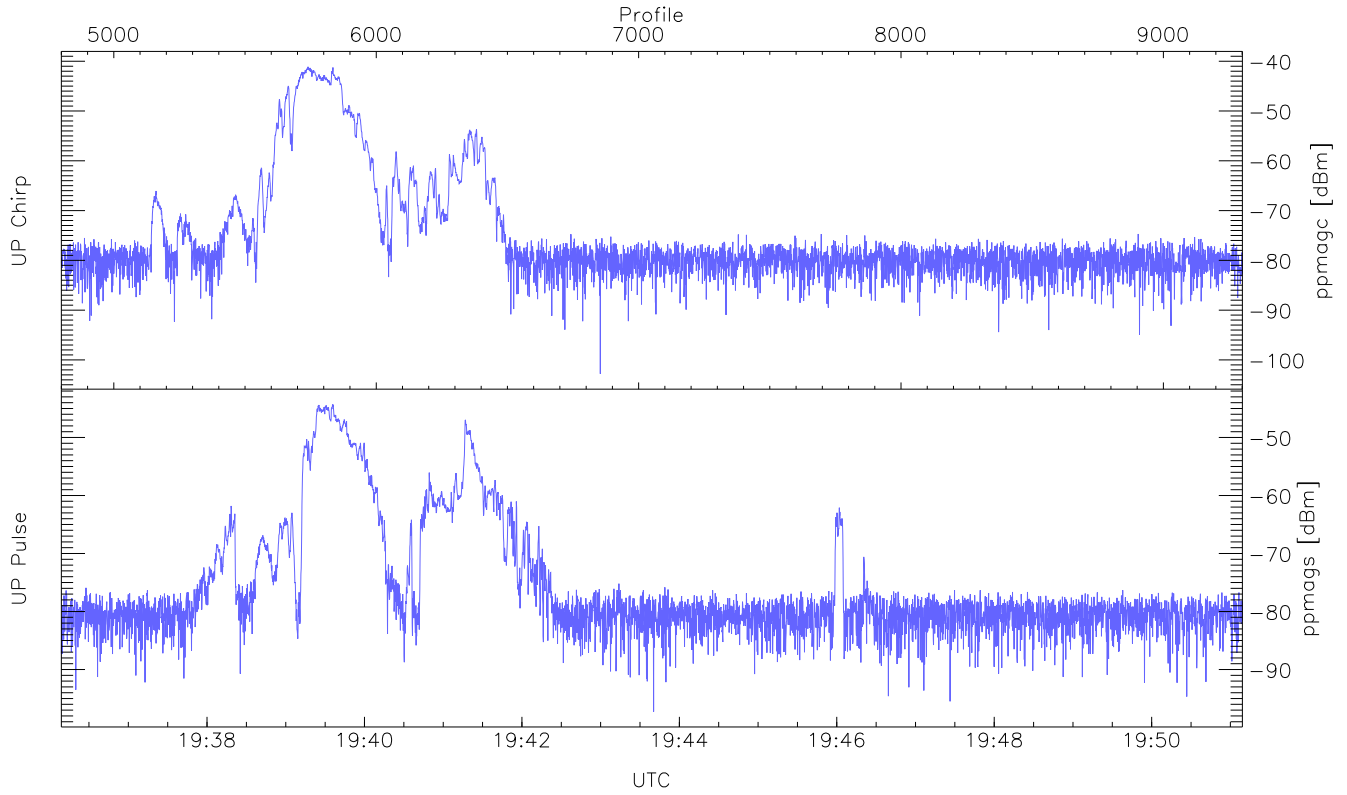
KPR SPP "Best" PPVEL noise (m/s):

	Min	Max	Mean	Median	StDev
UP_C_RG393_0	-42.02	42.06	0.15	0.83	24.59
UP_P_RG274_0	-42.01	42.06	0.01	-0.23	22.58
DOWN_C_RM_0	-42.05	42.04	0.03	0.03	24.50
DOWN_P_RG333_0	-42.05	42.05	-0.44	-0.76	23.11



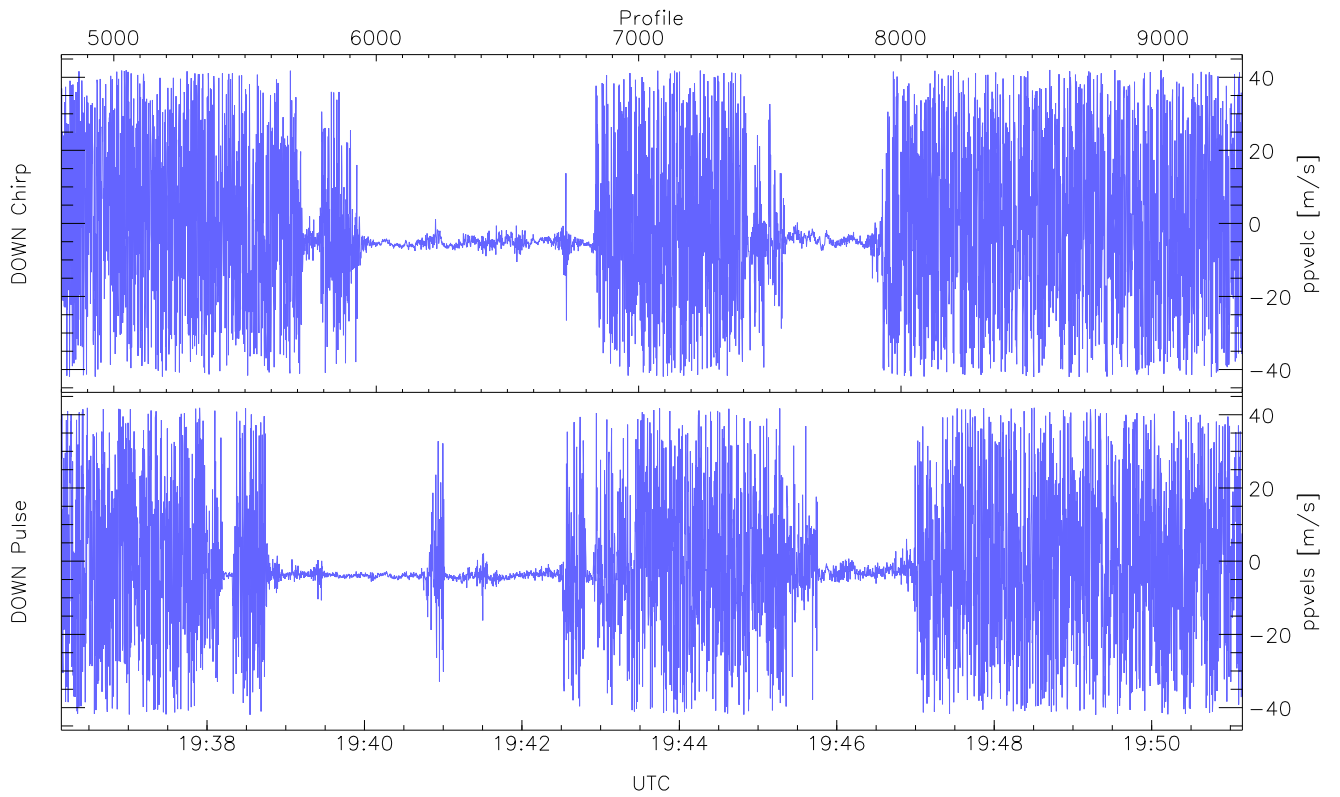
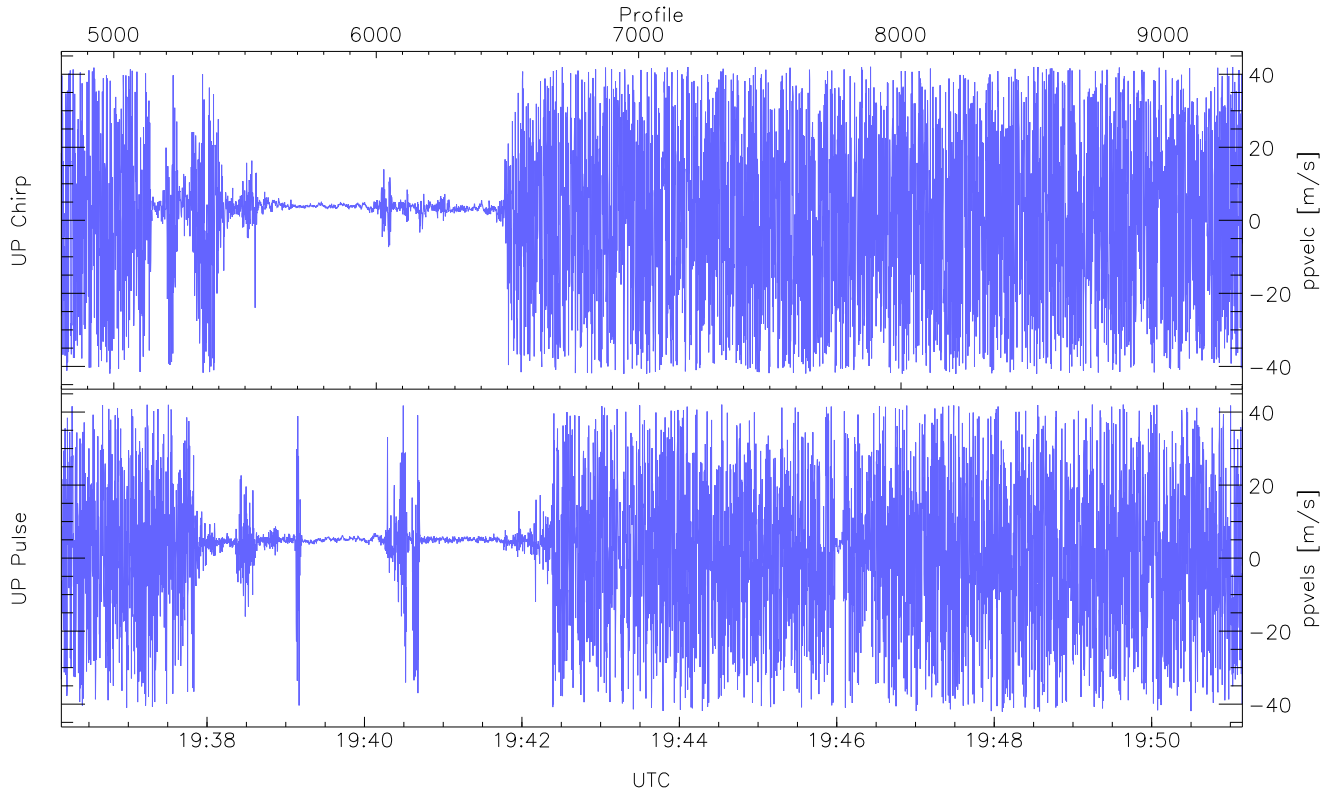
KPR SPP Received Power for Chirp Range gate 10 (686.2 m)  
 KPR SPP Received Power for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-64.55	-40.73	-55.21
UP Pulse(dBm)	-65.31	-44.02	-58.47
DOWN Chirp(dBm)	-63.10	-44.45	-58.63
DOWN Pulse(dBm)	-63.65	-45.47	-60.12



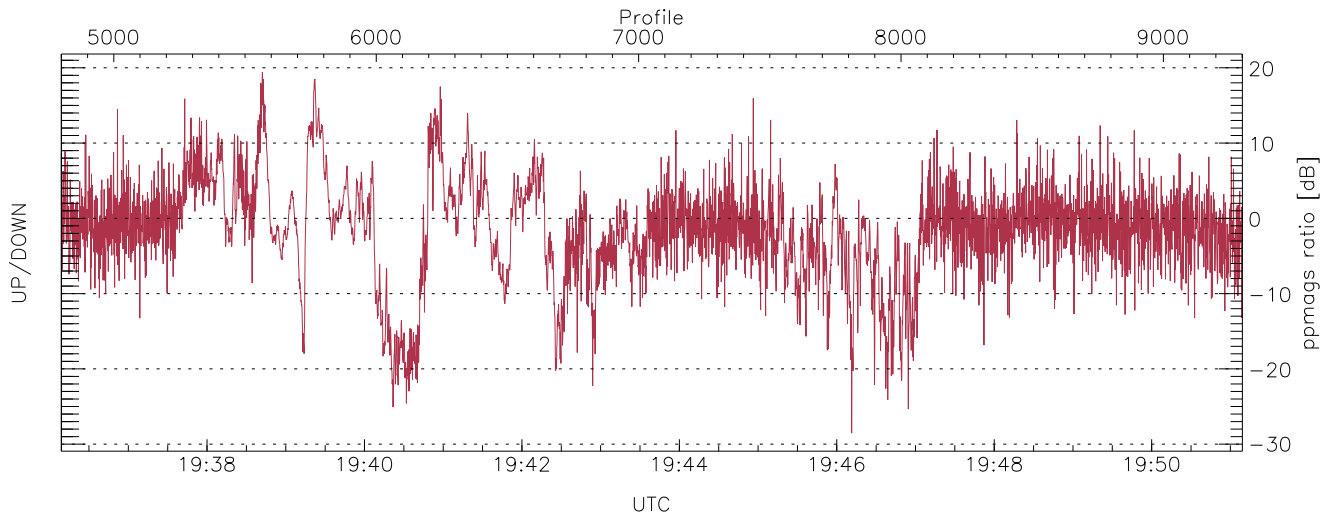
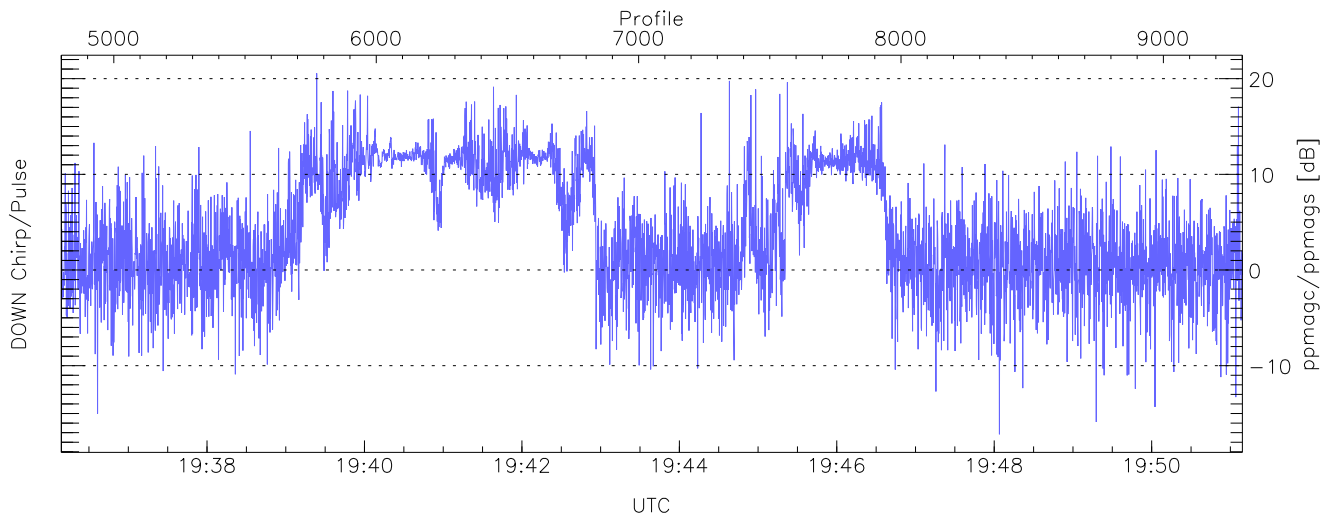
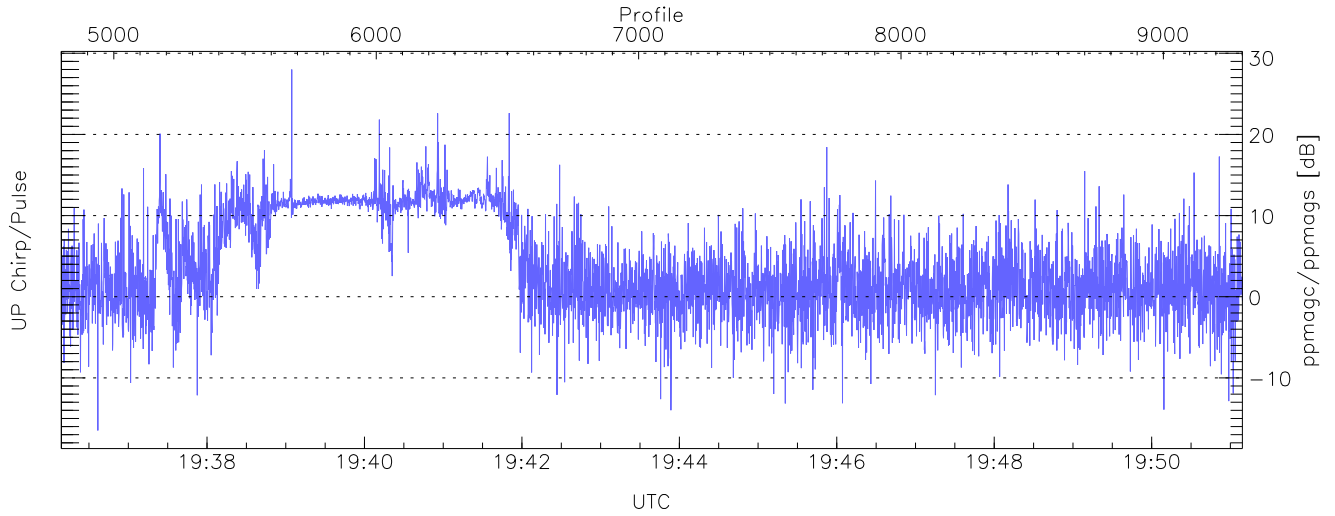
KPR SPP PPMAG for Chirp Range gate 10 (686.2 m)  
 KPR SPP PPMAG for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-102.80	-41.11	-56.26
UP Pulse(dBm)	-97.26	-44.32	-59.79
DOWN Chirp(dBm)	-94.10	-44.89	-61.28
DOWN Pulse(dBm)	-94.81	-45.80	-63.32



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	42.05	0.90
UP Pulse(m/s)	-42.05	42.06	1.50
DOWN Chirp(m/s)	-42.05	42.00	-1.85
DOWN Pulse(m/s)	-41.97	41.91	-1.61



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

	Min	Max	Mean
UP Chirp/Pulse(dBm)	-16.49	28.00	7.52
DOWN Chirp/Pulse(dBm)	-17.17	20.56	7.86
UP/DOWN Ratio at Range 135.8 m			
	Min	Max	Mean
UP/DOWN(dB)	-28.53	19.43	2.99