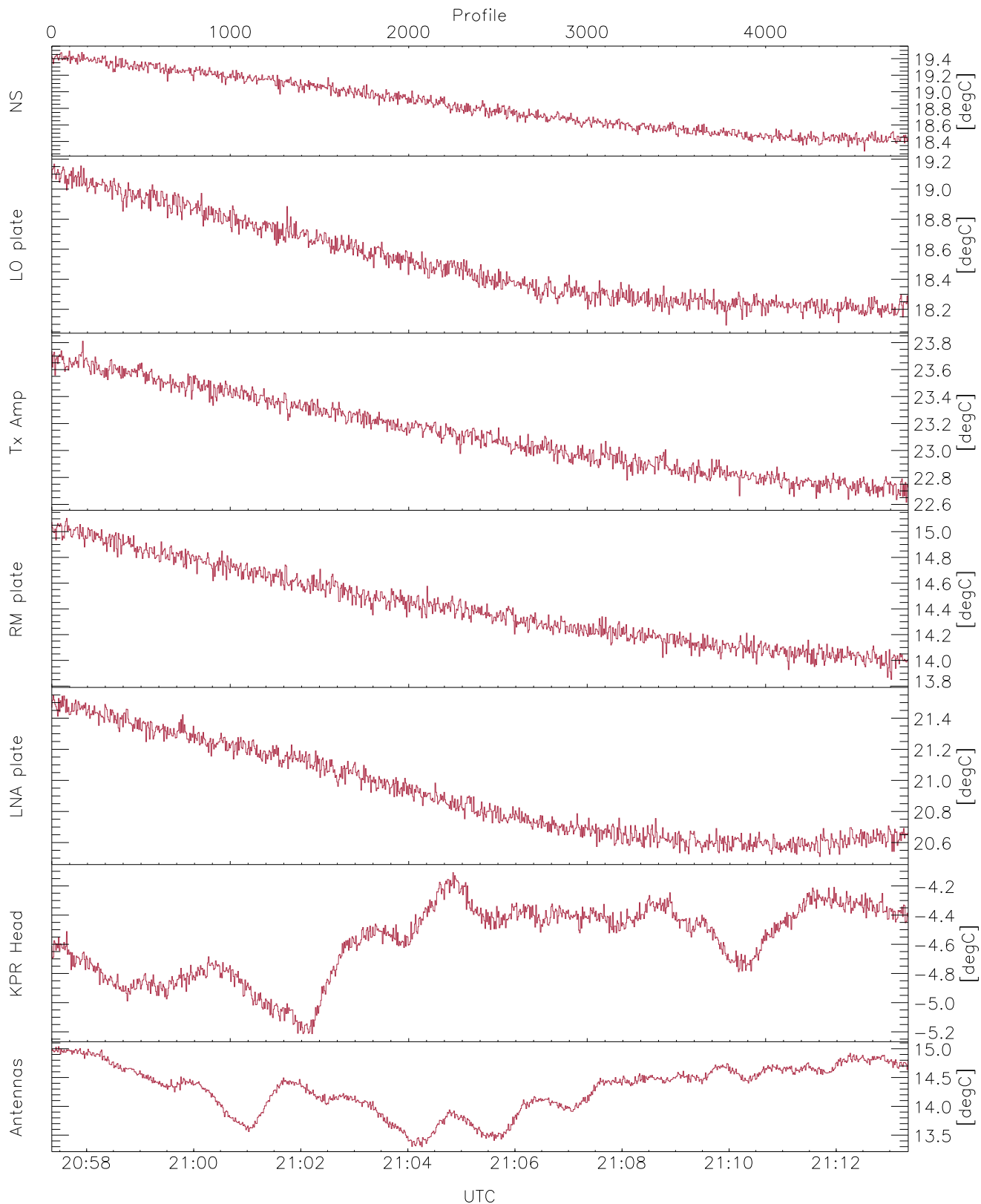


KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF

UTC: 20:57:21-21:23:24, TimeCor: 0.00s, Dur: 959.80s  
 TimeInt(min,max,mn,std): 193.5,206.4,200.0,0.2 ms; PPS: 5.0  
 NumRec(r/t): 4800/7815, 0-4799/20:57:21-21:13:21  
 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  
 PulseRange(min,max): 120, 6506 m, Gates: 427  
 Chirp Range(min,max): 536, 6487 m, Gates: 398  
 RangeGateSampling: 15.0 m, Aspect: 0.8

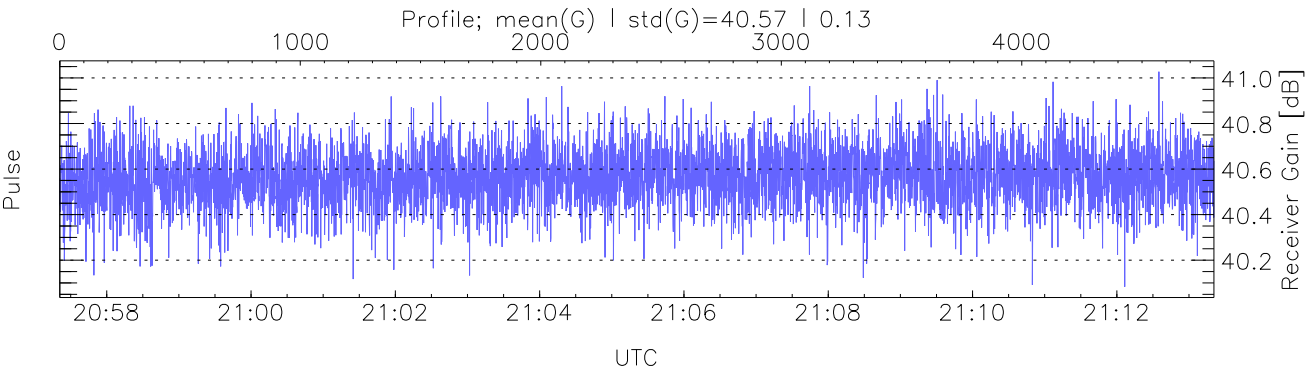
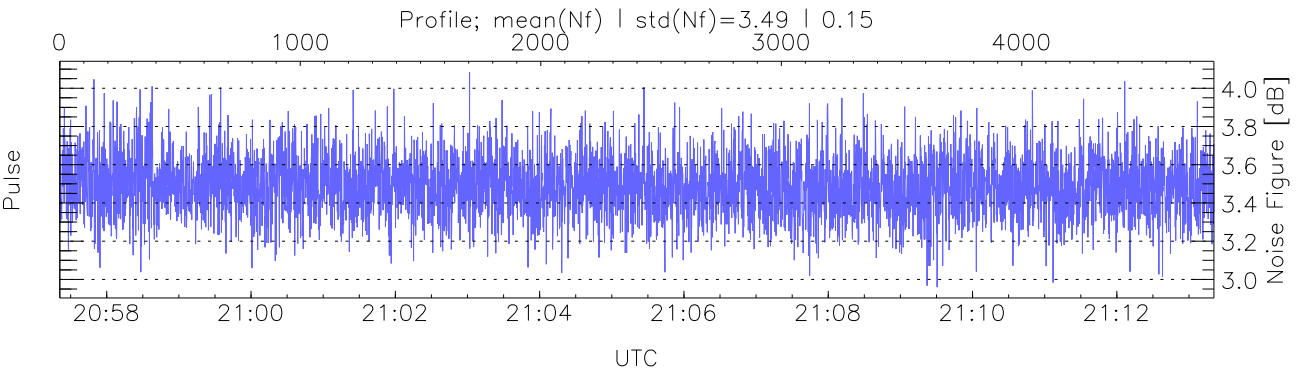
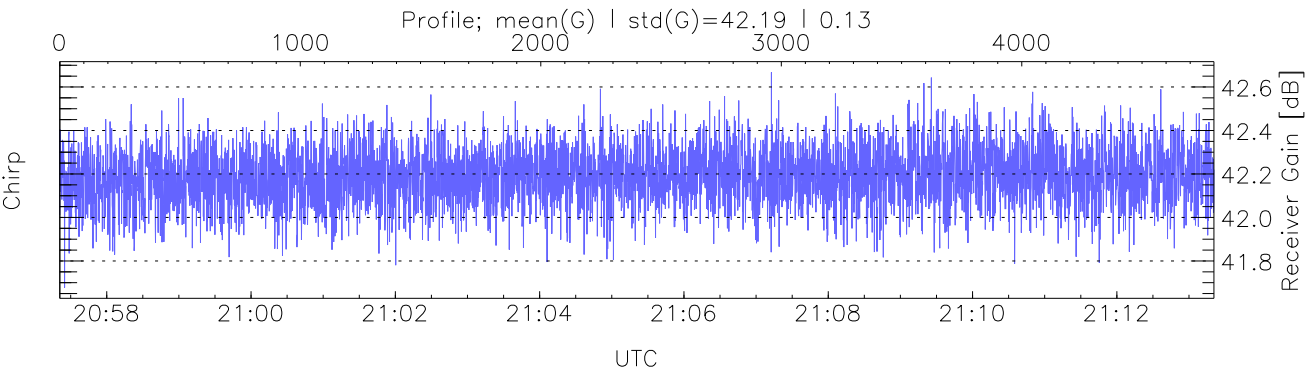
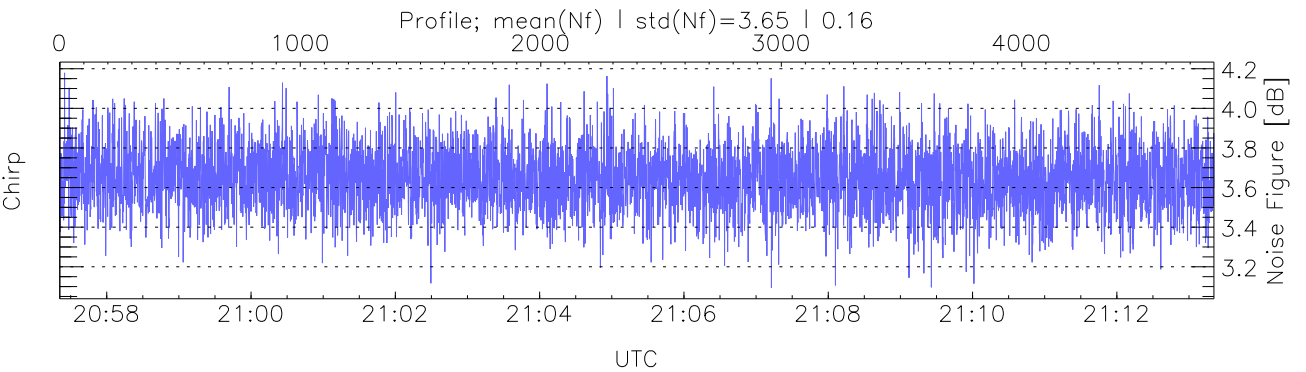


## KPR SPP Temperatures, Power Supplies, PLO lock:

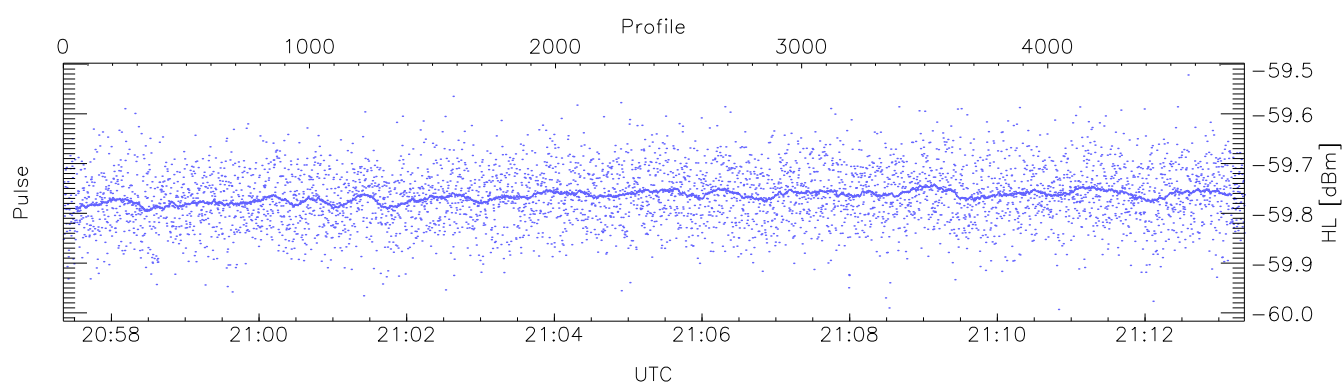
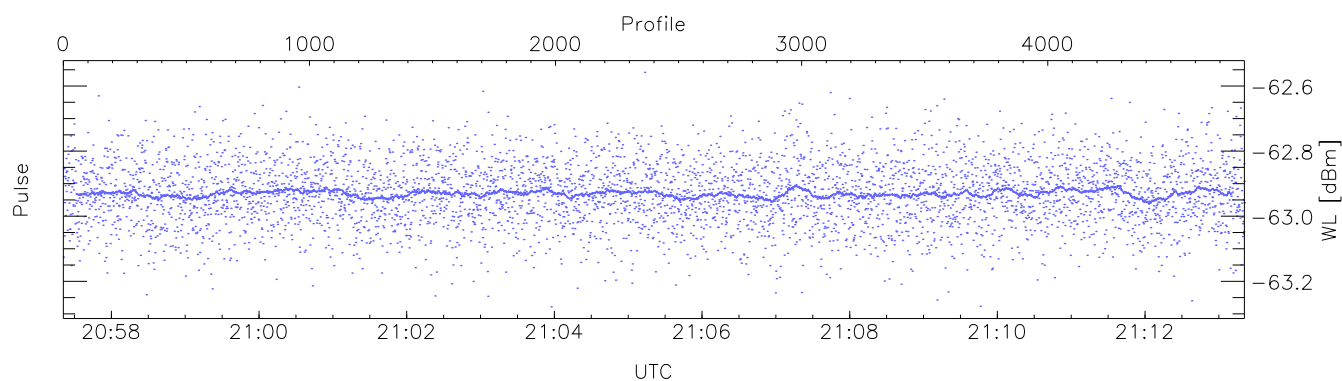
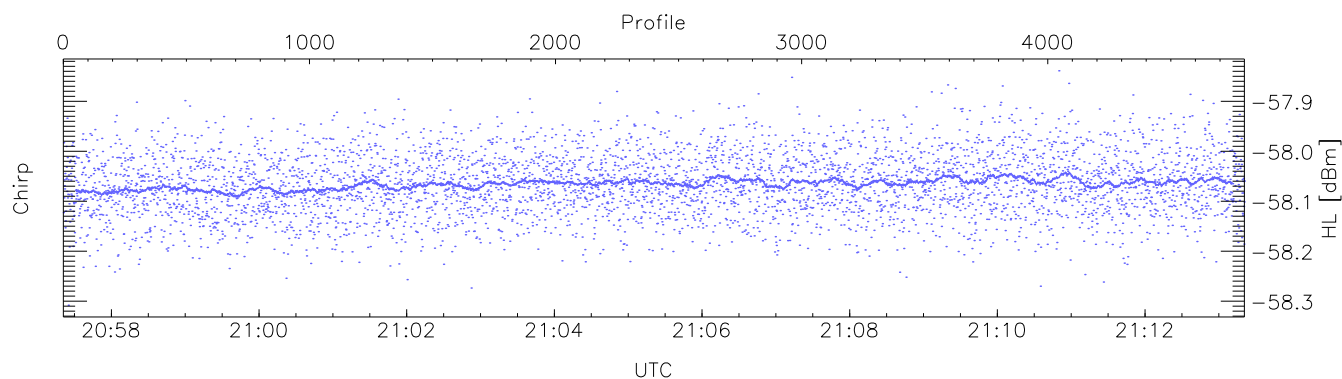
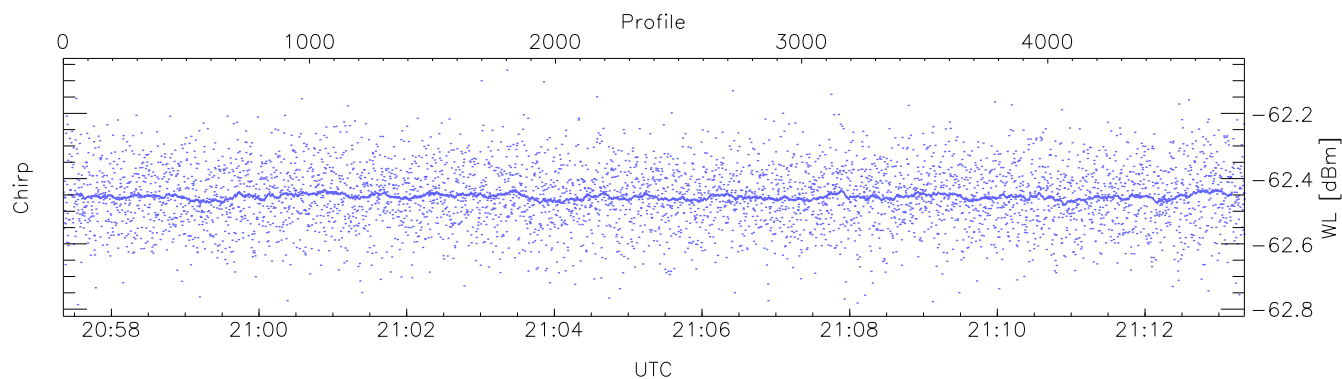
temperature:	NS,	LO,	Tx,	RM,	LNA,	Head,	Ant
mintempC:	18.3,	18.1,	22.6,	13.9,	20.5,	-5.2,	13.3
maxtempC:	19.5,	19.2,	23.8,	15.1,	21.5,	-4.1,	15.0
meantempC:	18.8,	18.5,	23.1,	14.4,	20.9,	-4.6,	14.3

PwrSply:	28,	12,	8,	5 VDC
minVDC:	25.87,	11.68,	7.87,	5.21
maxVDC:	27.84,	11.73,	7.90,	5.23
meanVDC:	26.96,	11.71,	7.88,	5.22

PLO(3.84,15.84 GHz) unlocked: None

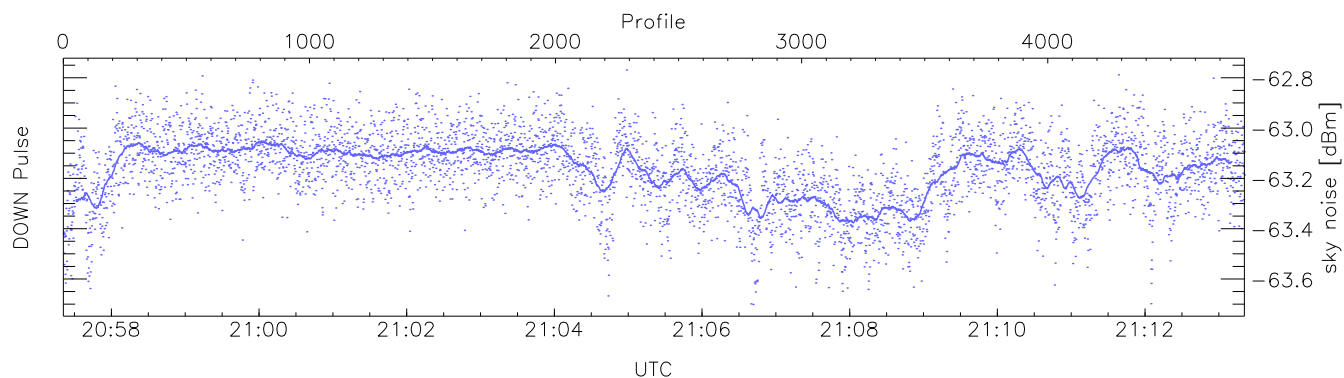
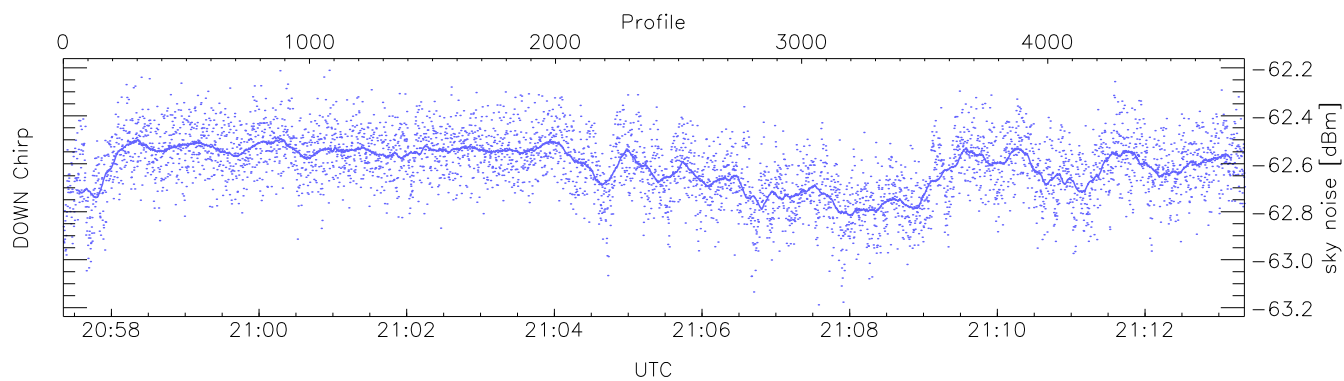
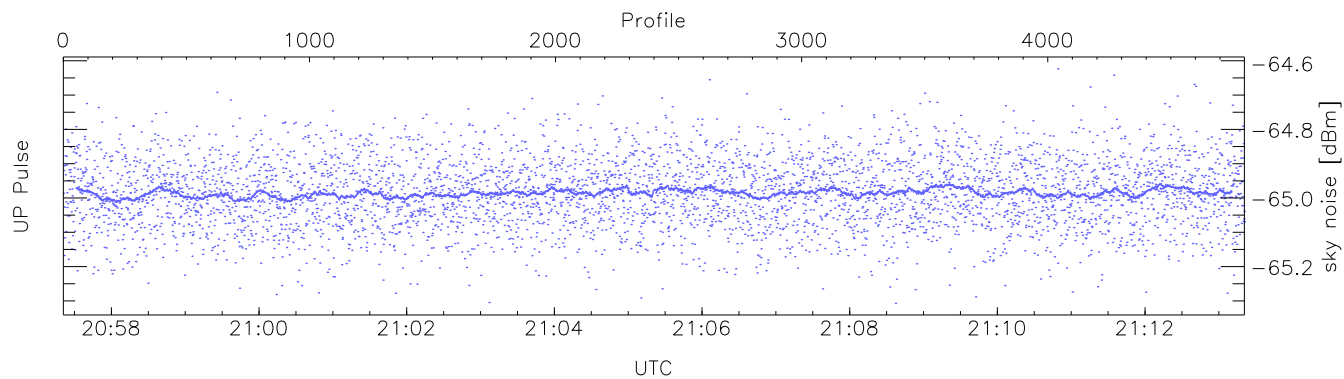
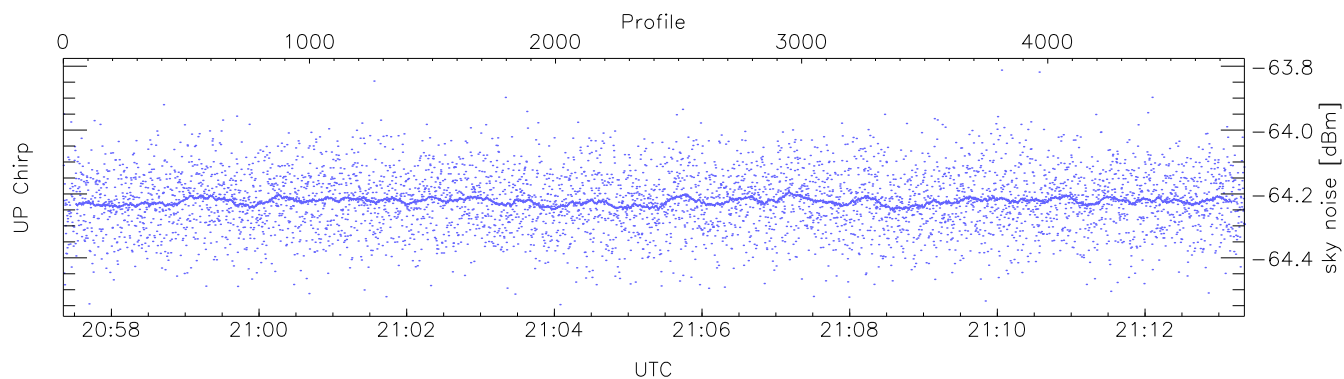


KPR SPP Receiver Gain and Noise Figure



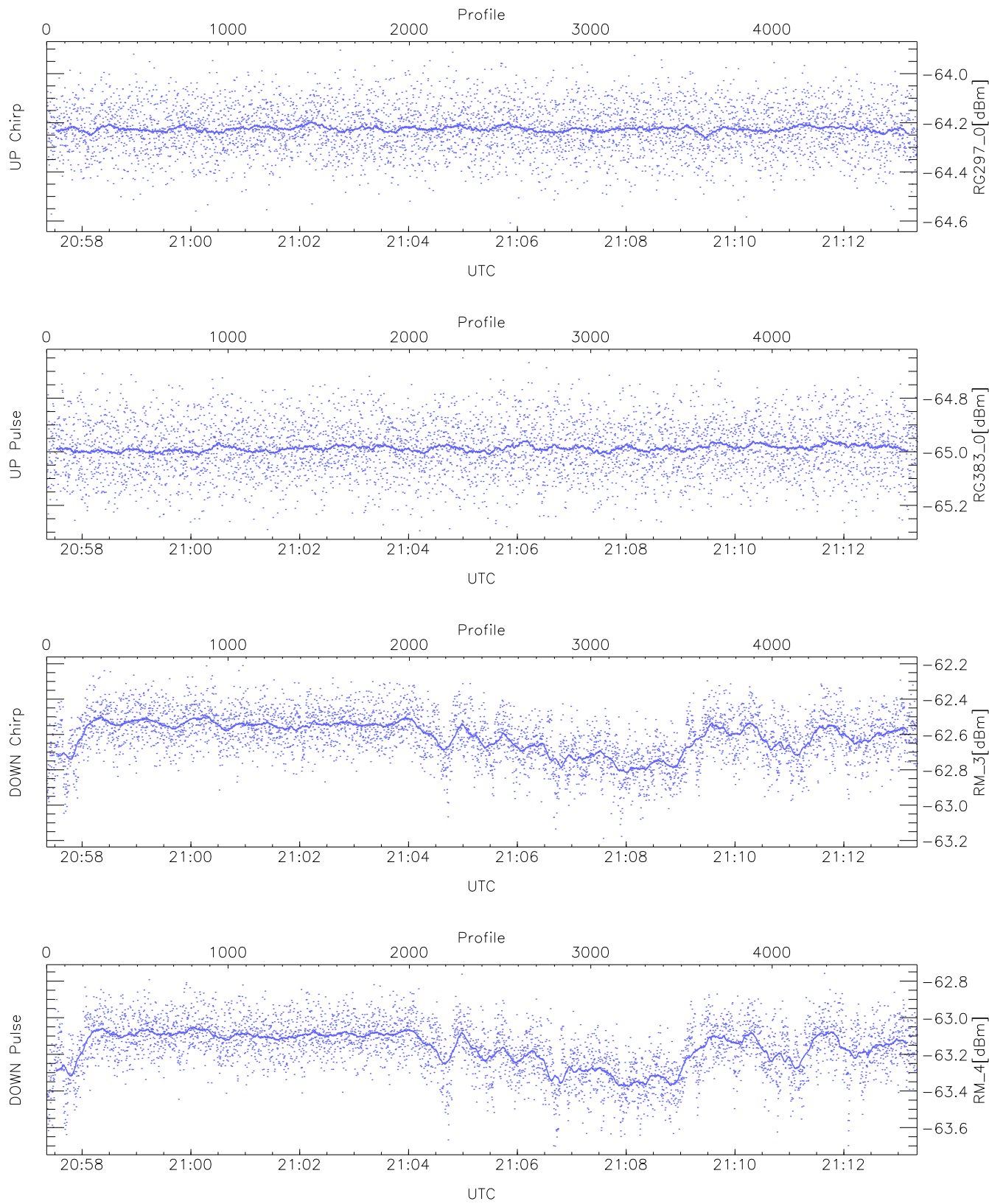
## KPR SPP Receiver Noise Source Warm and Hot Measurements

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-62.79	-62.07	-62.45	-62.46	-78.92
Chirp(HL [dBm])	-58.31	-57.84	-58.07	-58.07	-76.56
Pulse(WL [dBm])	-63.28	-62.56	-62.93	-62.93	-79.41
Pulse(HL [dBm])	-59.99	-59.52	-59.77	-59.77	-78.36



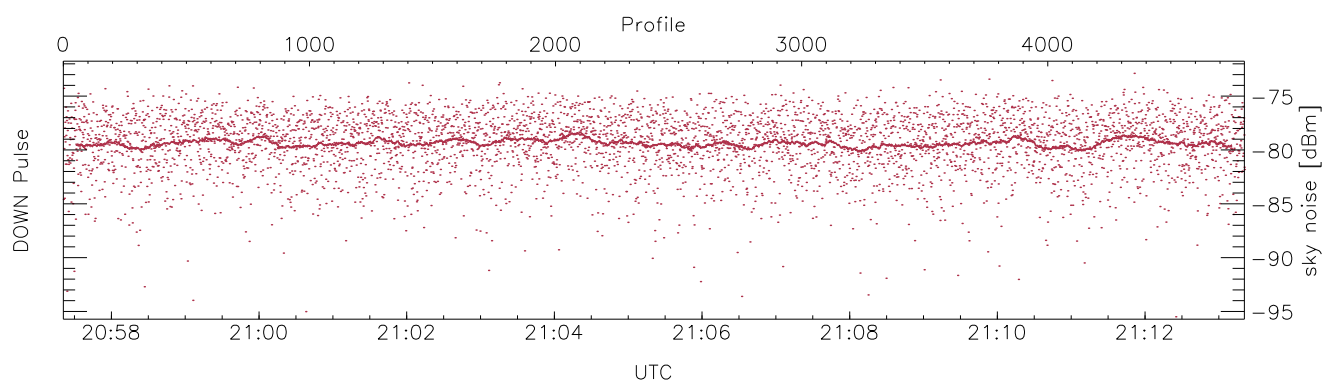
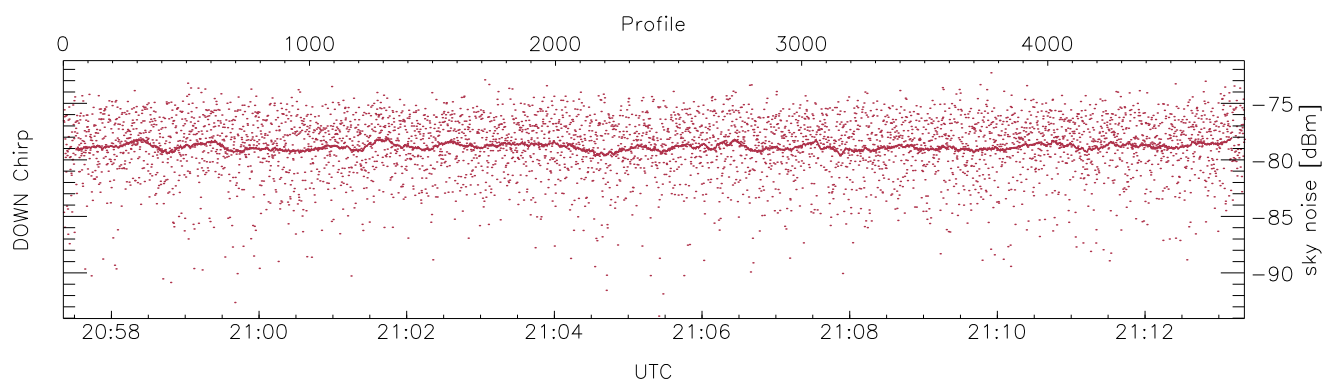
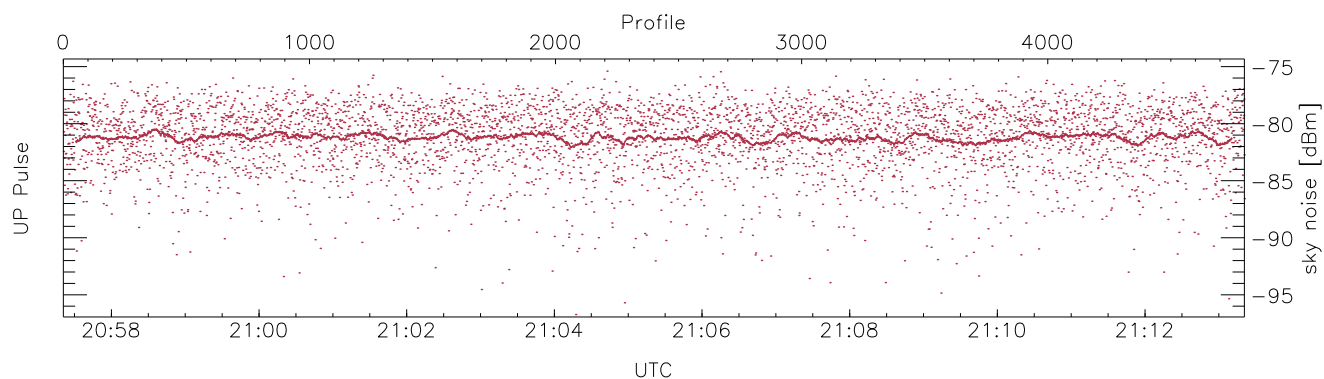
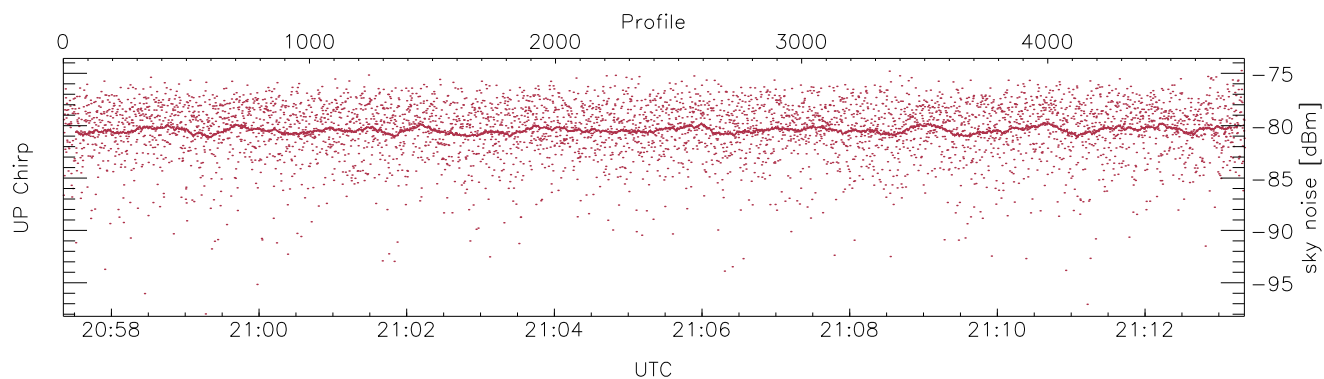
KPR SPP Last range gate power measurements: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-64.55	-63.81	-64.22	-64.22	-80.69
UP Pulse(dBm)	-65.31	-64.62	-64.98	-64.99	-81.46
DOWN Chirp(dBm)	-63.19	-62.21	-62.61	-62.60	-77.62
DOWN Pulse(dBm)	-63.70	-62.77	-63.17	-63.15	-77.97



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

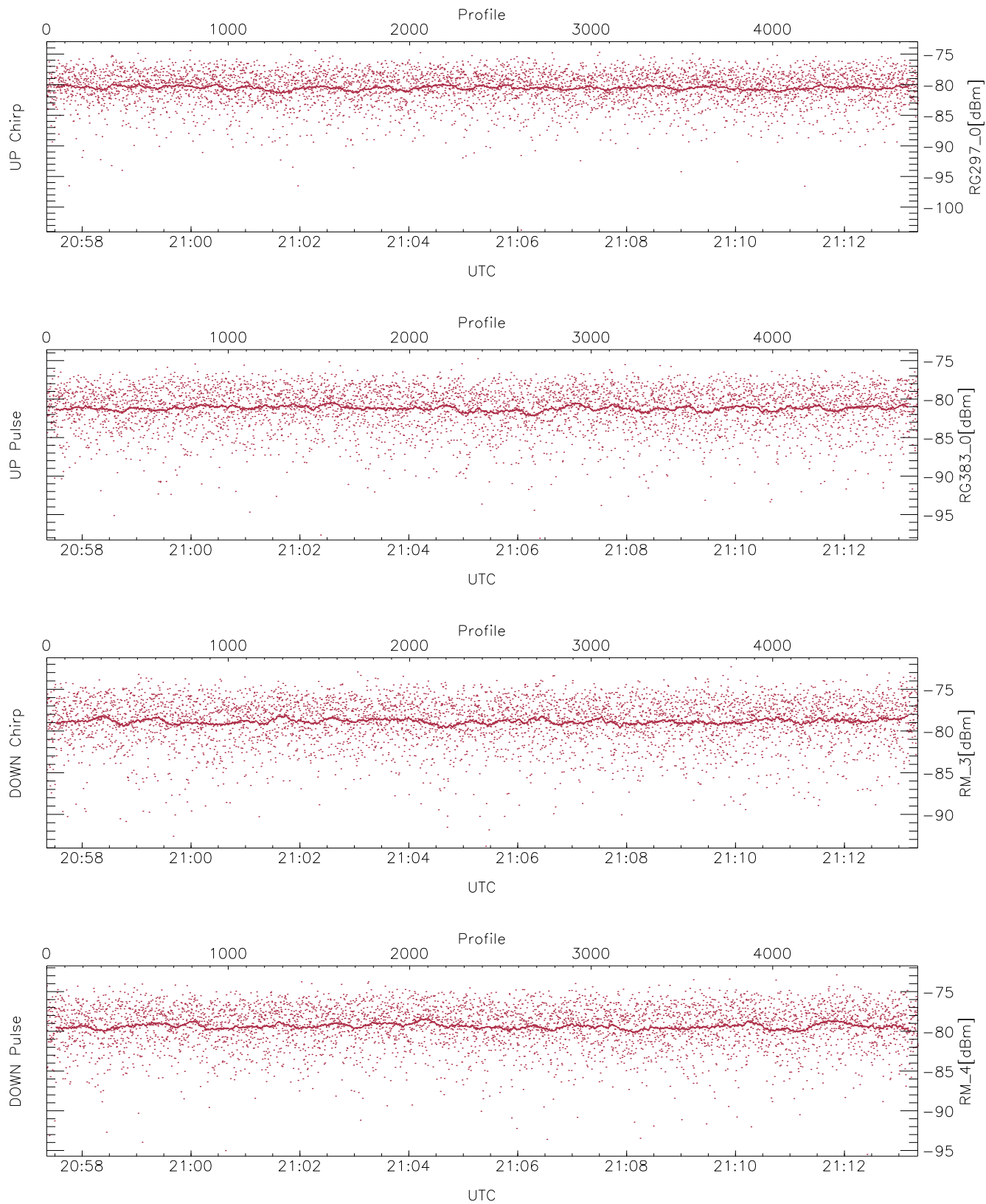
	Min	Max	Mean	Median	StDev
UP_C_RG297_0	-64.61	-63.90	-64.22	-64.23	-80.76
UP_P_RG383_0	-65.29	-64.65	-64.99	-64.99	-81.42
DOWN_C_RM_3	-63.19	-62.21	-62.61	-62.60	-77.62
DOWN_P_RM_4	-63.70	-62.76	-63.17	-63.15	-77.97



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

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-97.98	-74.74	-79.71	-79.95	-82.57
UP Pulse(dBm)	-96.73	-75.40	-80.48	-80.71	-83.28
DOWN Chirp(dBm)	-93.82	-72.30	-78.12	-78.37	-80.87
DOWN Pulse(dBm)	-95.49	-72.89	-78.67	-78.94	-81.47

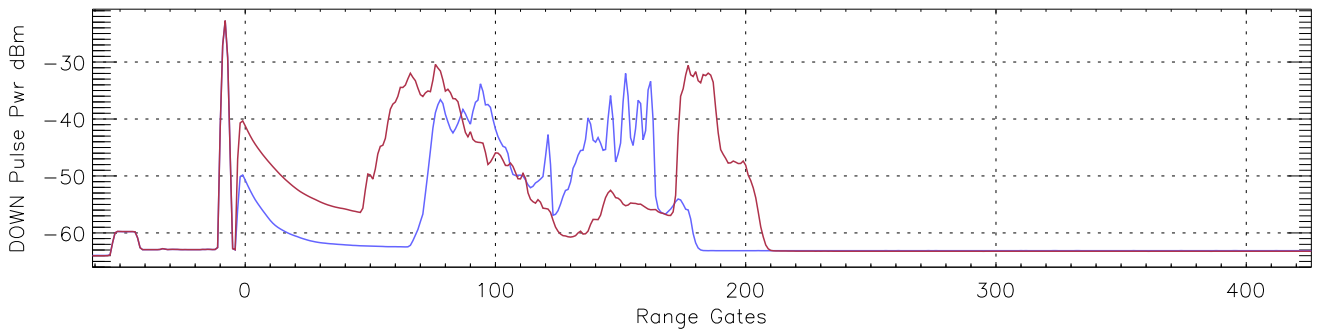
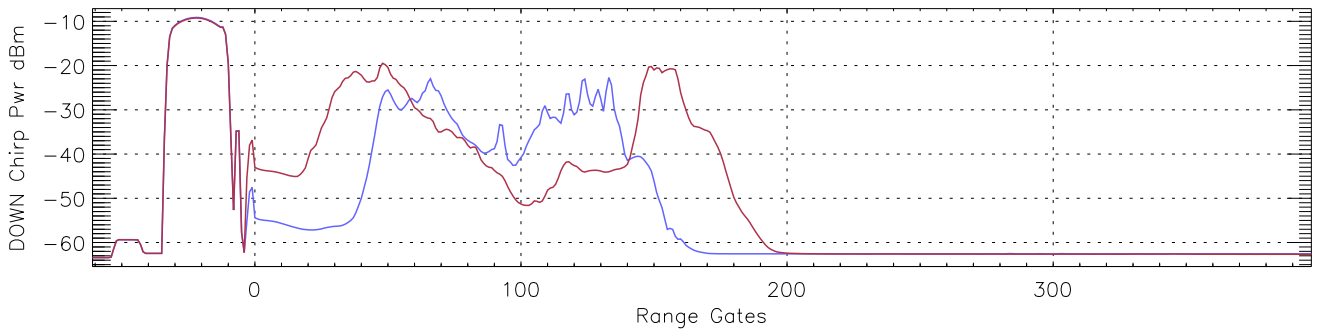
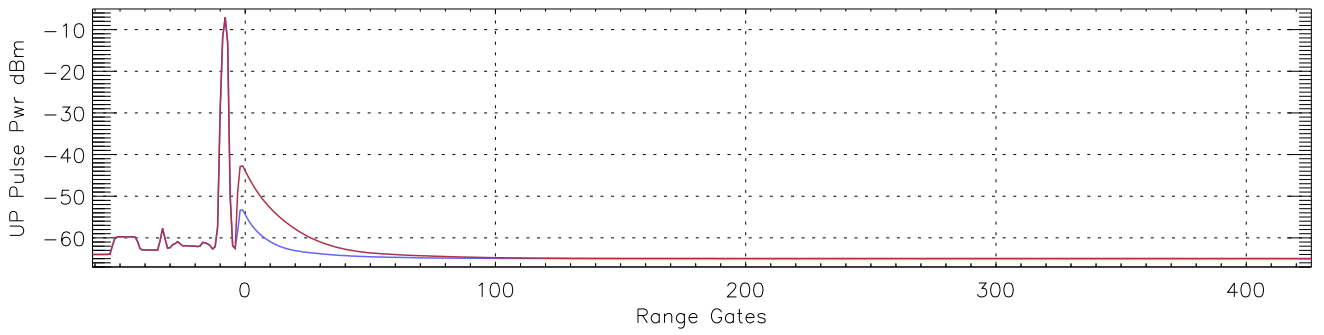
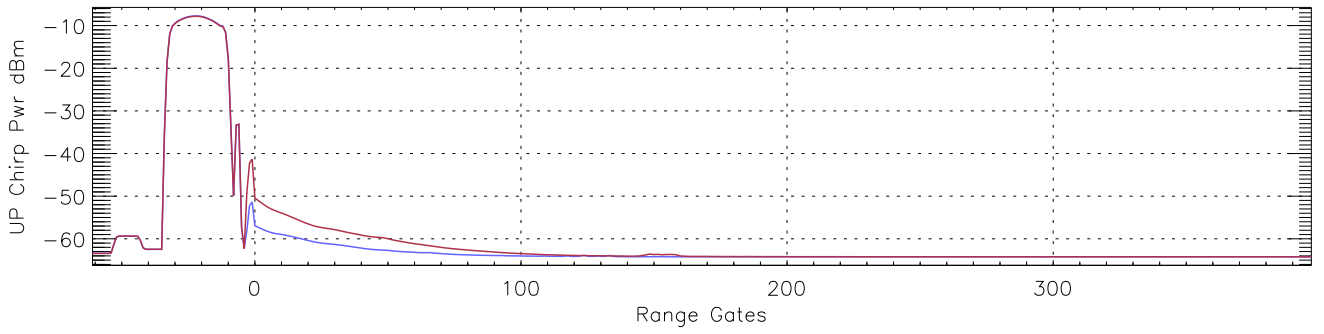




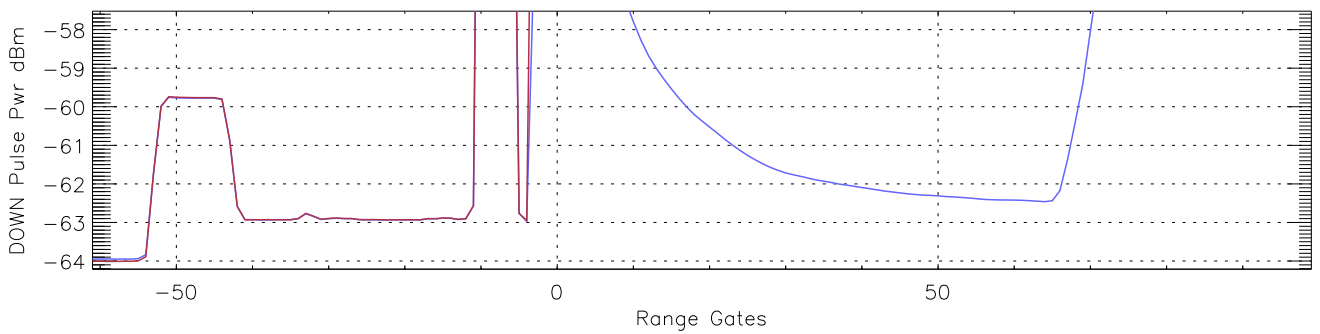
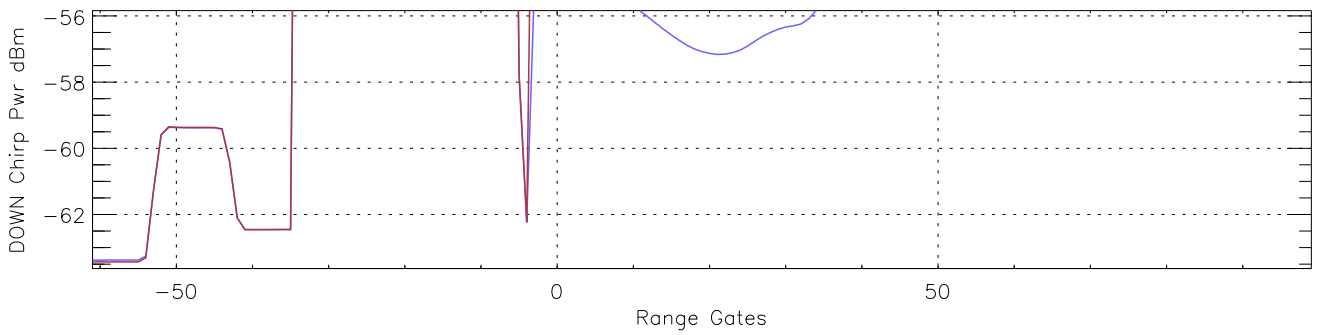
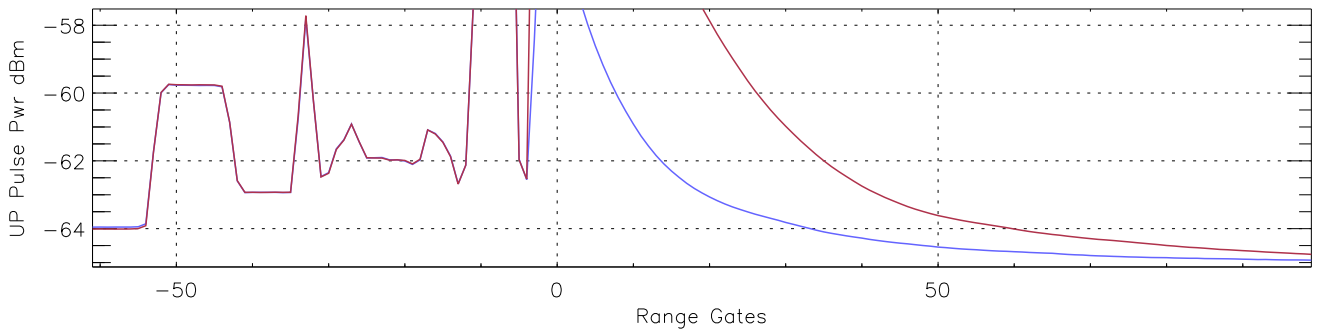
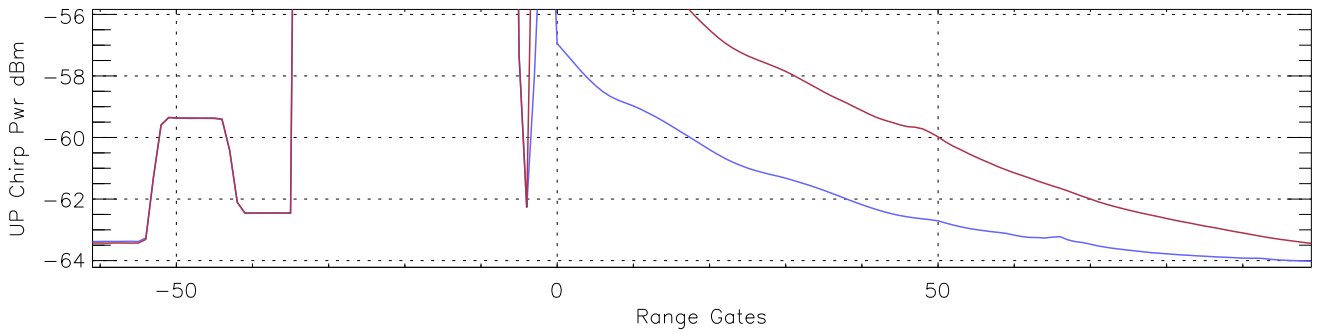
KPR SPP "Best" PPMAG noise (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RG297_0	-103.76	-74.43	-79.80	-80.09	-82.59
UP_P_RG383_0	-98.06	-74.75	-80.47	-80.73	-83.27
DOWN_C_RM_3	-93.82	-72.30	-78.12	-78.37	-80.87
DOWN_P_RM_4	-95.49	-72.89	-78.67	-78.94	-81.47

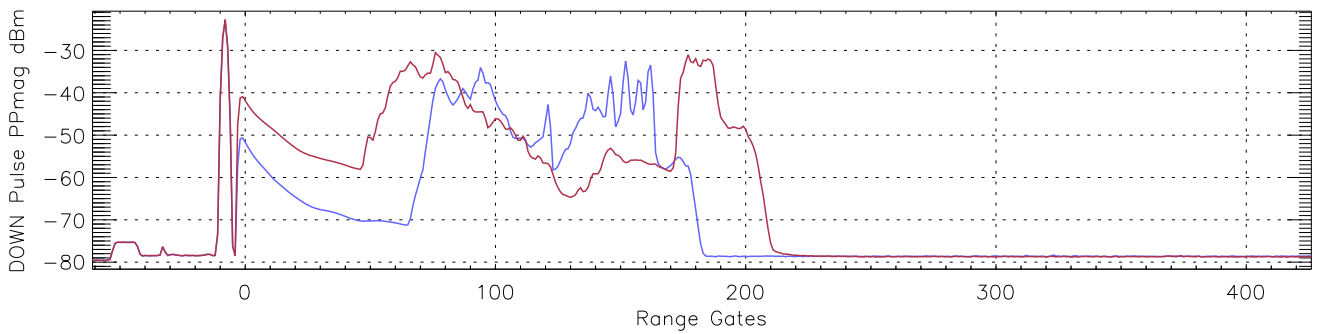
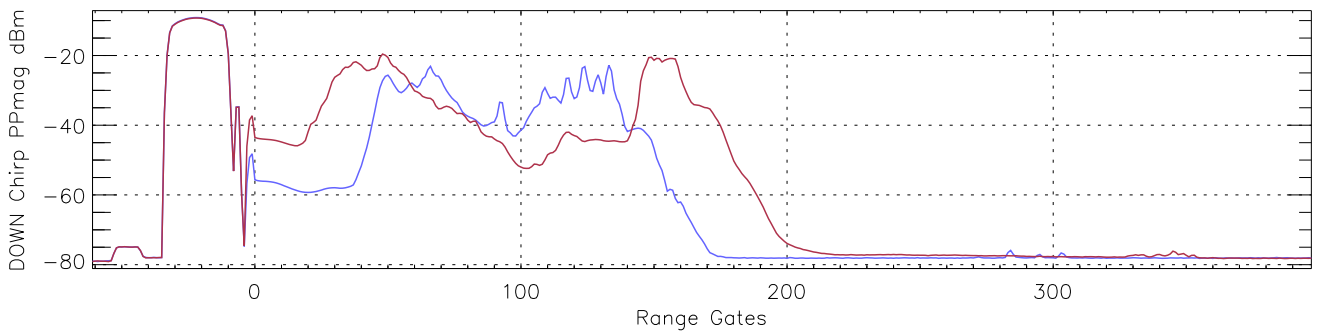
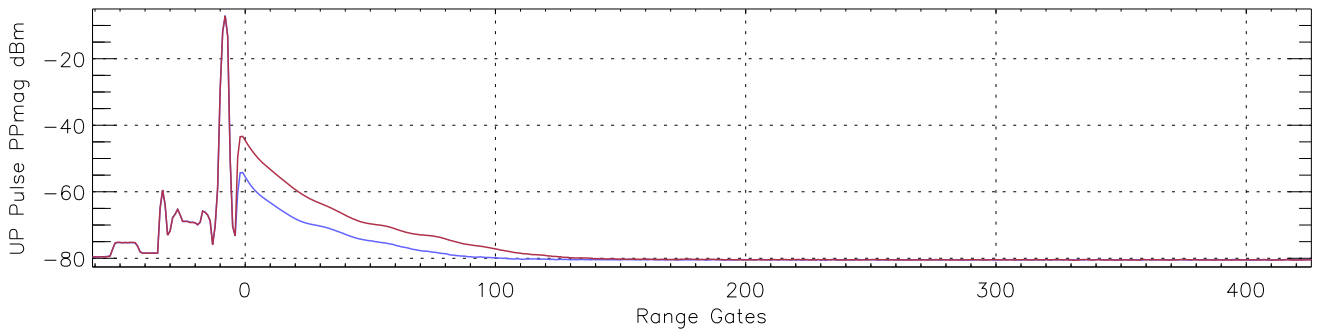
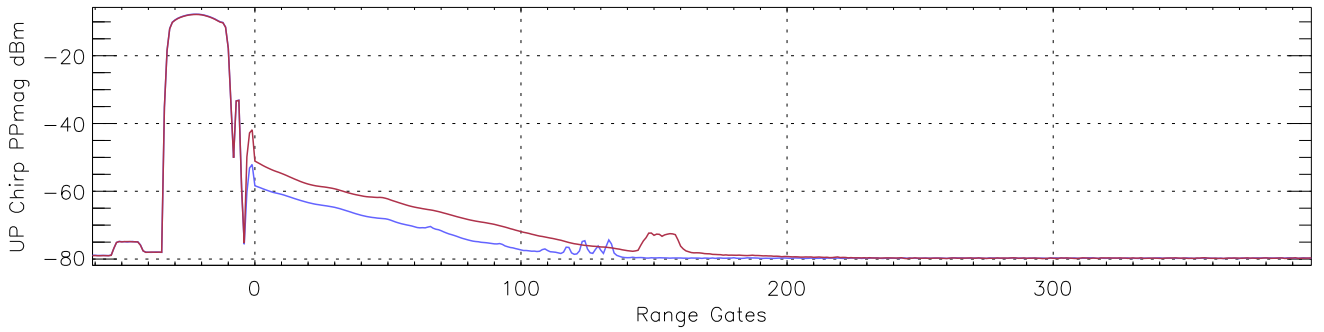




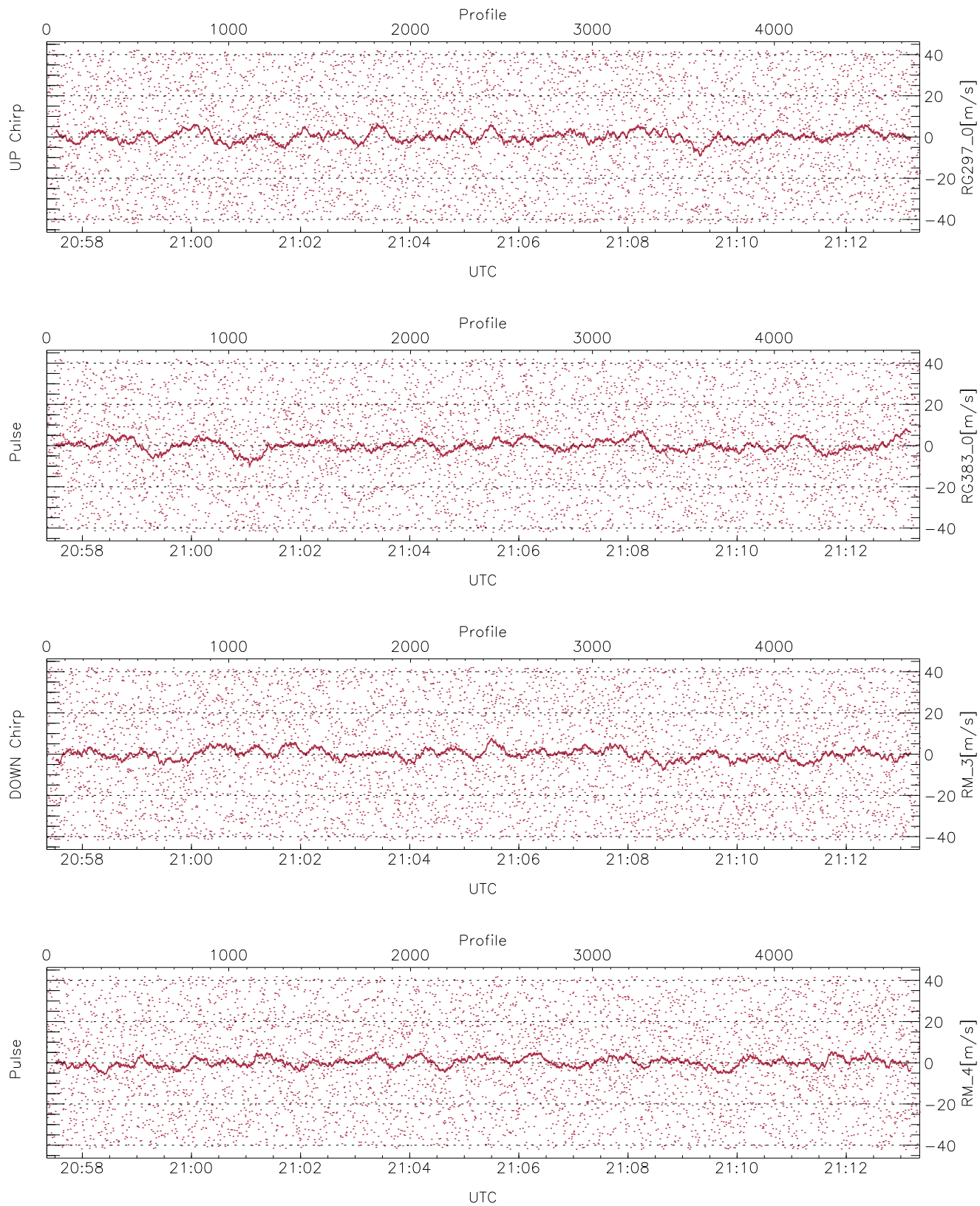
KPR SPP Averaged Received power for all recorded gates  
blue: 205721-210520, 2401 profiles averaged  
red: 210520-211321, 2400 profiles averaged



KPR SPP Averaged Power for neg. gates & up to 100 gates  
blue: 205721-210520, 2401 profiles averaged  
red: 210520-211321, 2400 profiles averaged

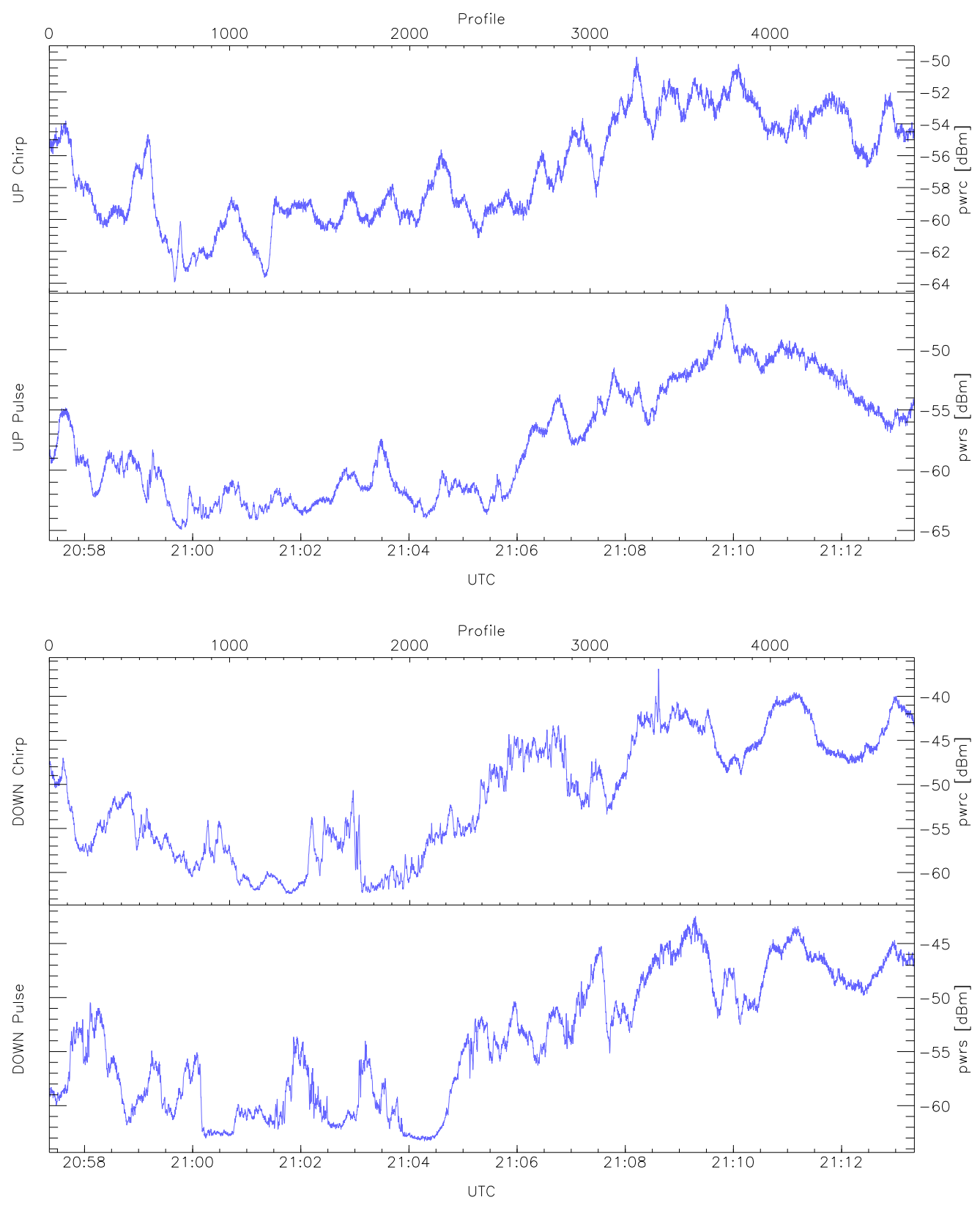


KPR SPP Averaged PP magnitude for all recorded gates  
blue: 205721-210520, 2401 profiles averaged  
red: 210520-211321, 2400 profiles averaged



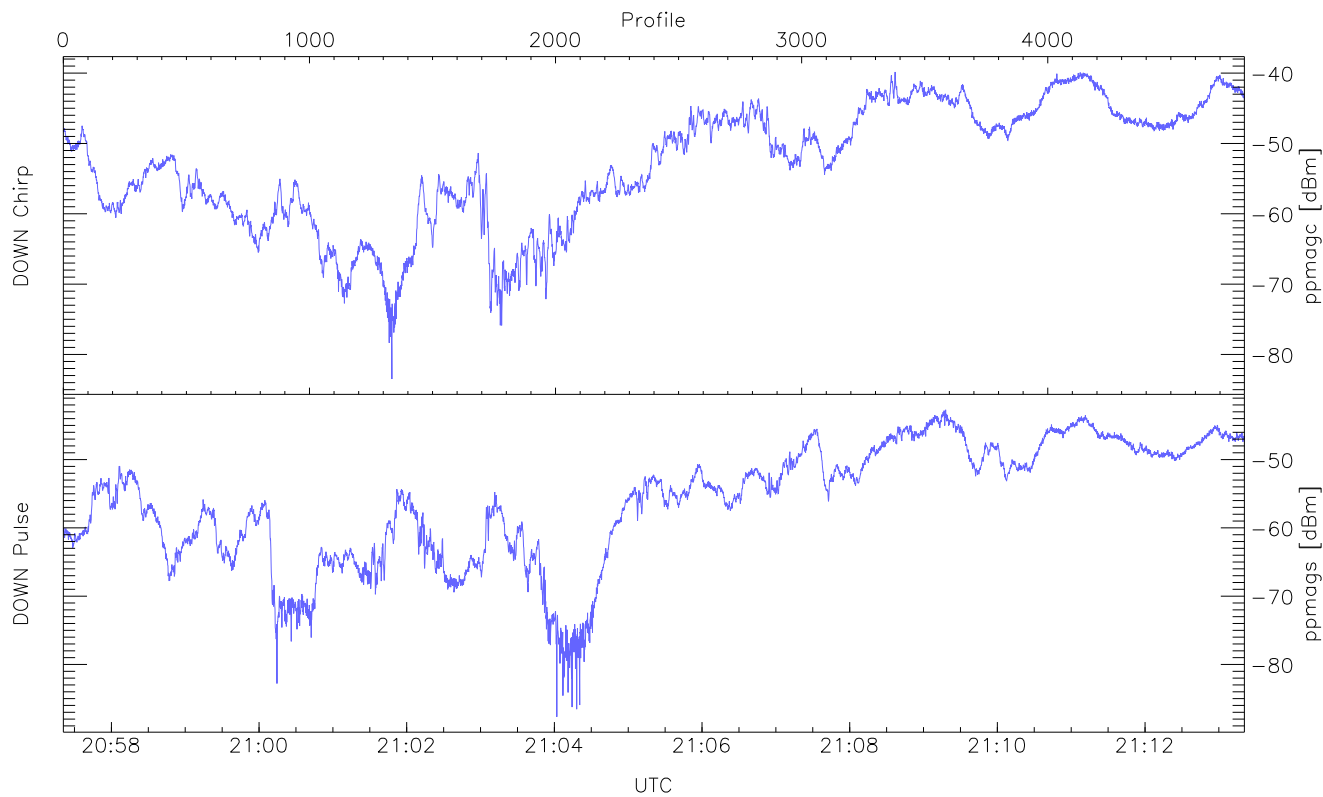
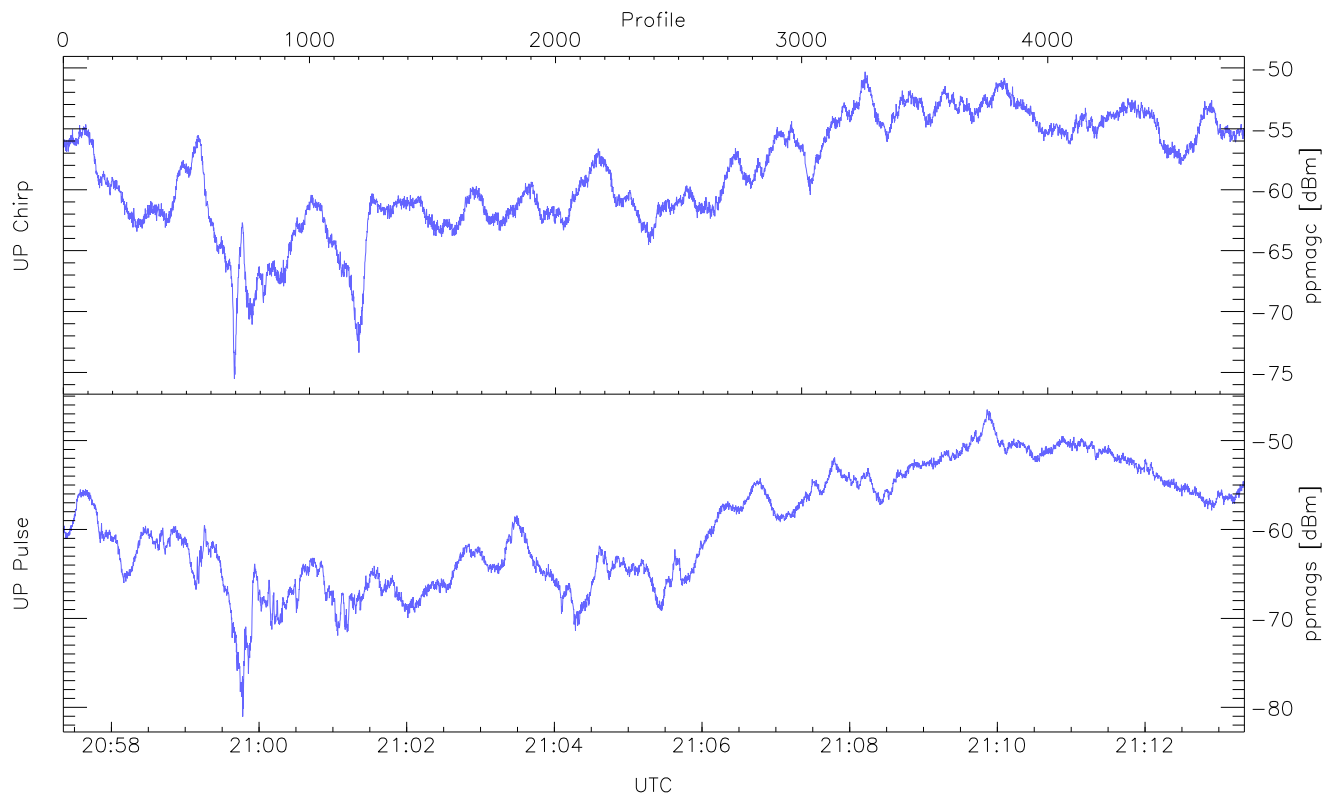
KPR SPP "Best" PPVEL noise (m/s):

	Min	Max	Mean	Median	StDev
UP_C_RG297_0	-42.05	42.06	0.17	-0.30	24.35
UP_P_RG383_0	-42.04	42.06	0.09	-0.12	22.79
DOWN_C_RM_3	-42.04	42.01	-0.12	-0.47	24.51
DOWN_P_RM_4	-42.05	42.04	0.13	0.00	23.01



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

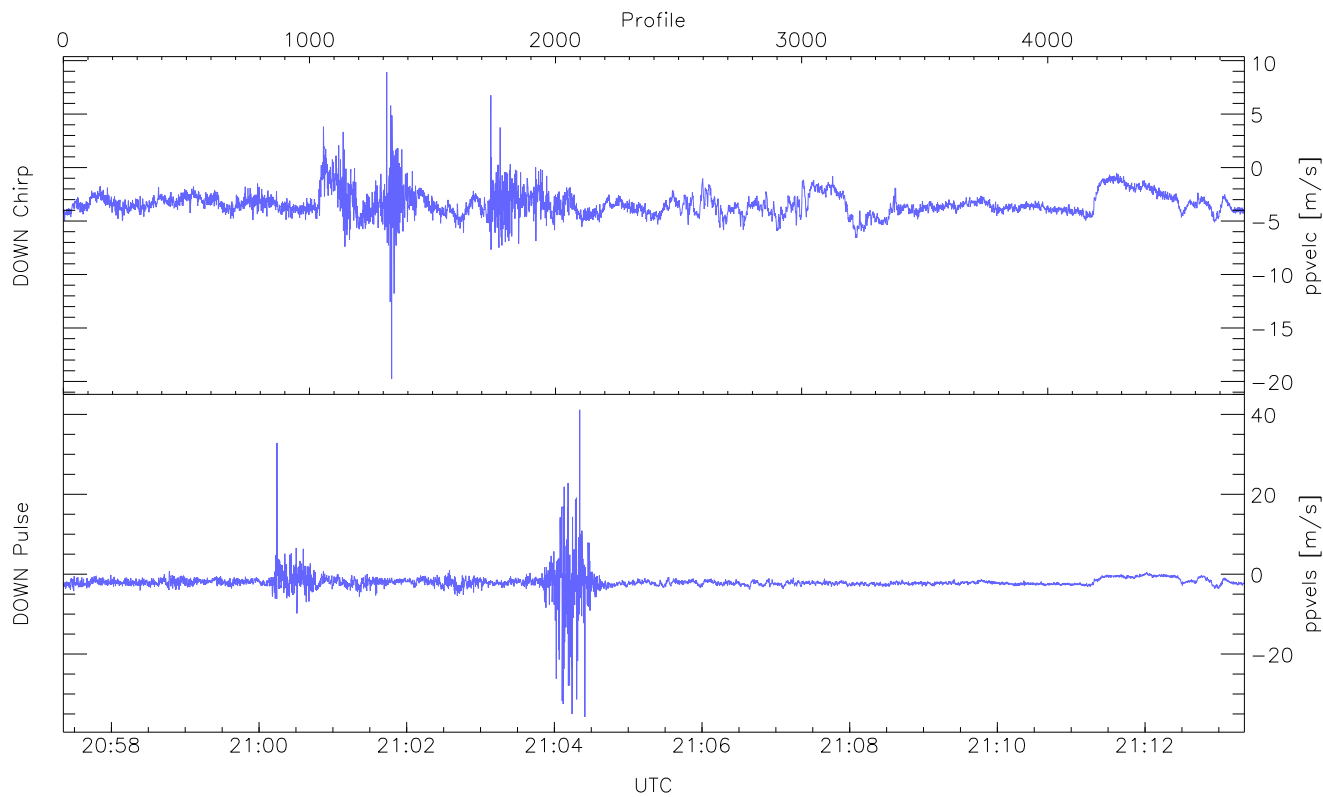
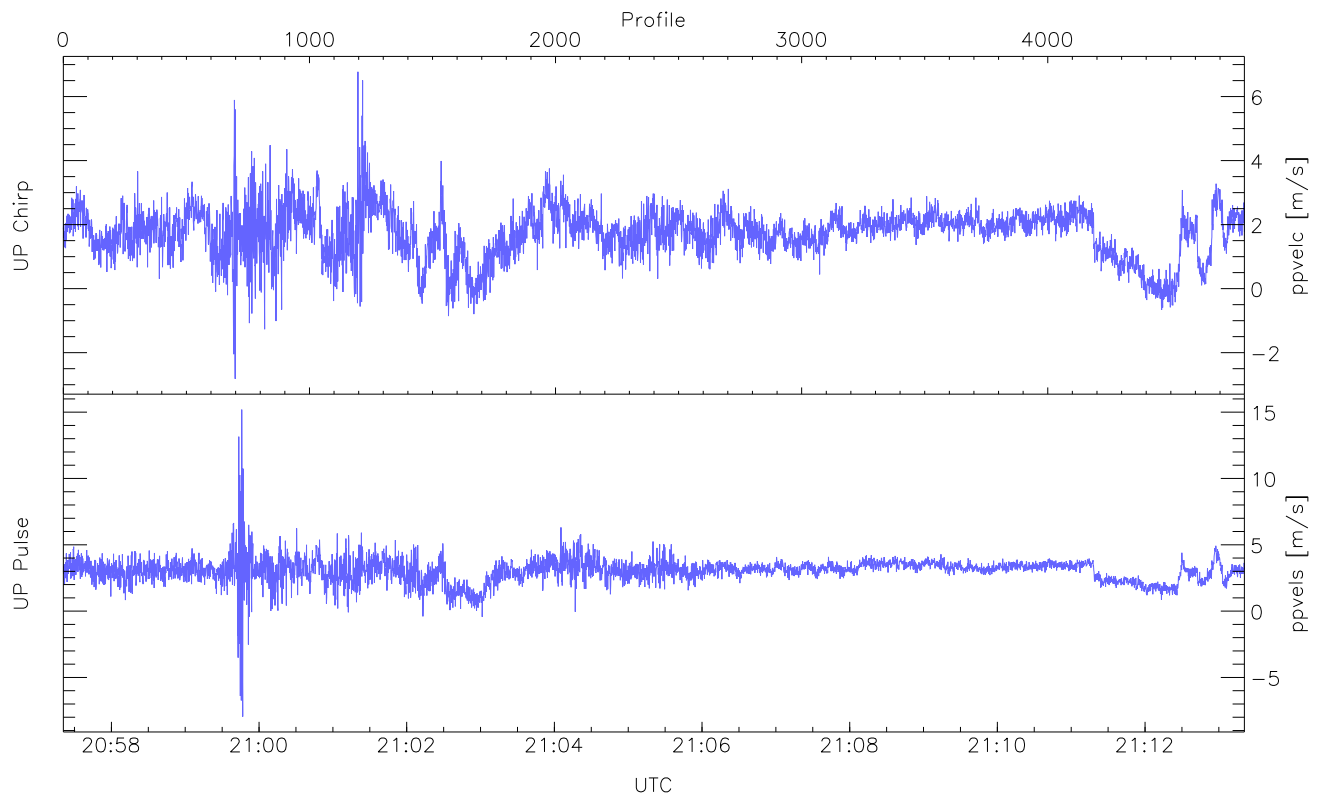
	Min	Max	Mean
UP Chirp(dBm)	-63.92	-49.81	-55.77
UP Pulse(dBm)	-64.91	-46.24	-55.21
DOWN Chirp(dBm)	-62.41	-36.88	-47.07
DOWN Pulse(dBm)	-63.29	-42.48	-50.43



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

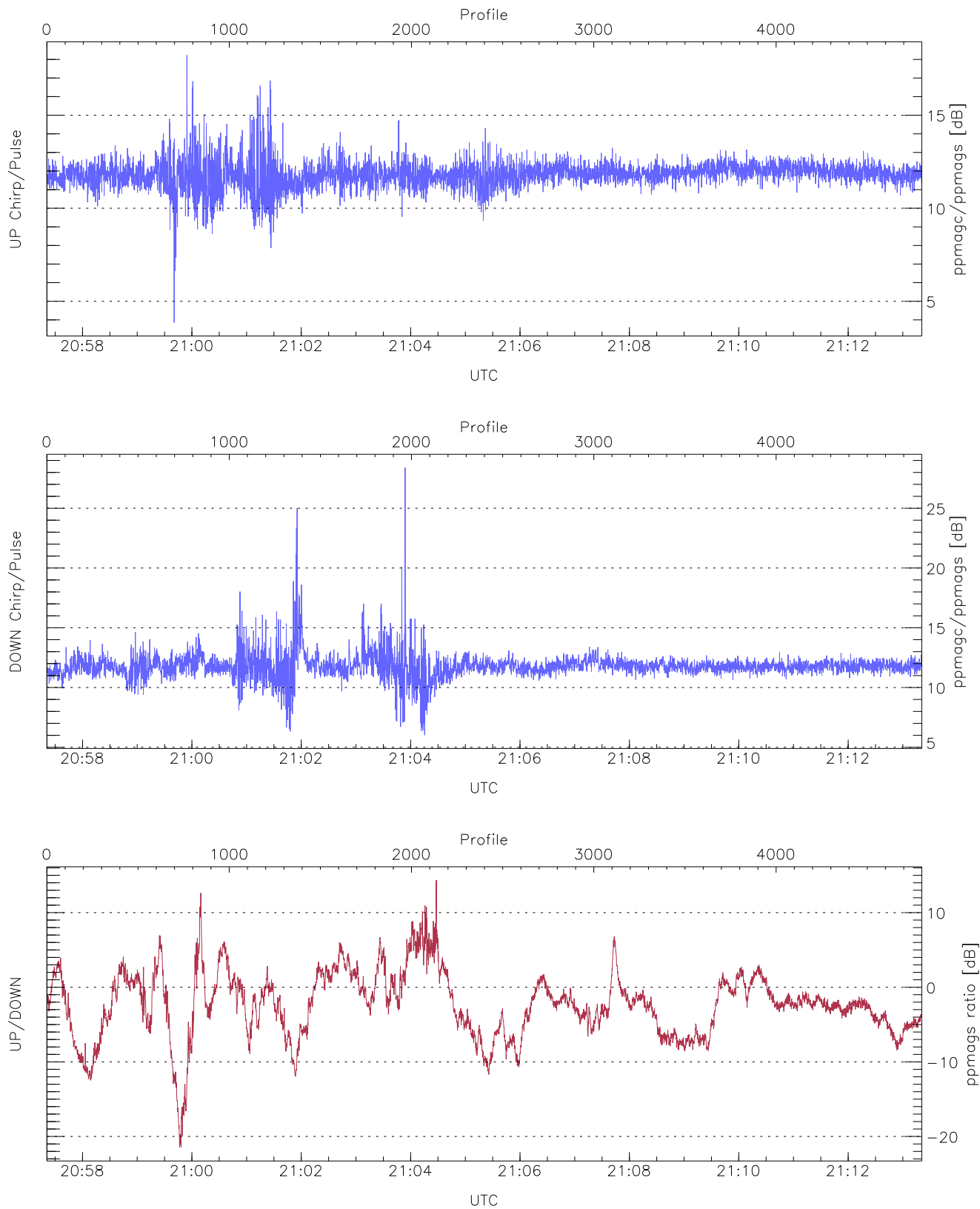
	Min	Max	Mean
UP Chirp(dBm)	-75.52	-50.31	-56.80
UP Pulse(dBm)	-81.04	-46.51	-55.88
DOWN Chirp(dBm)	-83.49	-39.84	-47.57
DOWN Pulse(dBm)	-87.67	-42.70	-50.85





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)	-2.82	6.78	1.73
UP Pulse(m/s)	-7.95	15.20	3.03
DOWN Chirp(m/s)	-19.78	8.94	-3.42
DOWN Pulse(m/s)	-35.72	41.16	-2.03



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

	Min	Max	Mean
UP Chirp/Pulse(dBm)	3.85	18.23	11.87
DOWN Chirp/Pulse(dBm)	6.02	28.40	11.96
UP/DOWN Ratio at Range 135.8 m			
	Min	Max	Mean
UP/DOWN(dB)	-21.49	14.36	-0.31