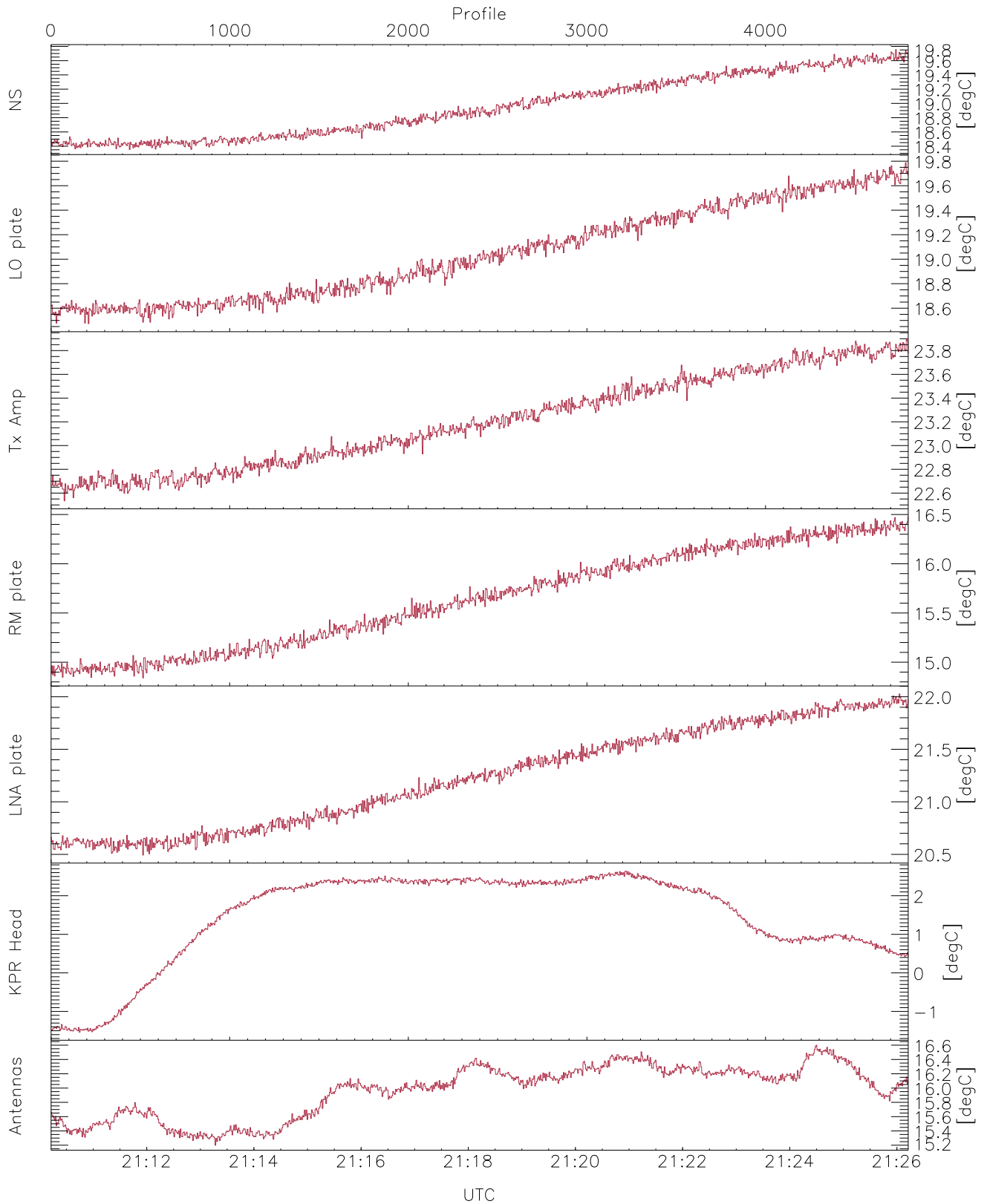


KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF
 UTC: 21:10:13-21:40:19, TimeCor: 0.00s, Dur: 959.80s
 TimeInt(min,max,mn,std): 193.8,206.2,200.0,0.4 ms; PPS: 5.0
 NumRec(r/t): 4800/9030, 0-4799/21:10:13-21:26:13
 AcqTime(req,actual): 200.0,200.0 ms, Data Rate: 187.6 KB/s
 Pulse: 247 ns, Chirp: 2.47 us, DRxIF: 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

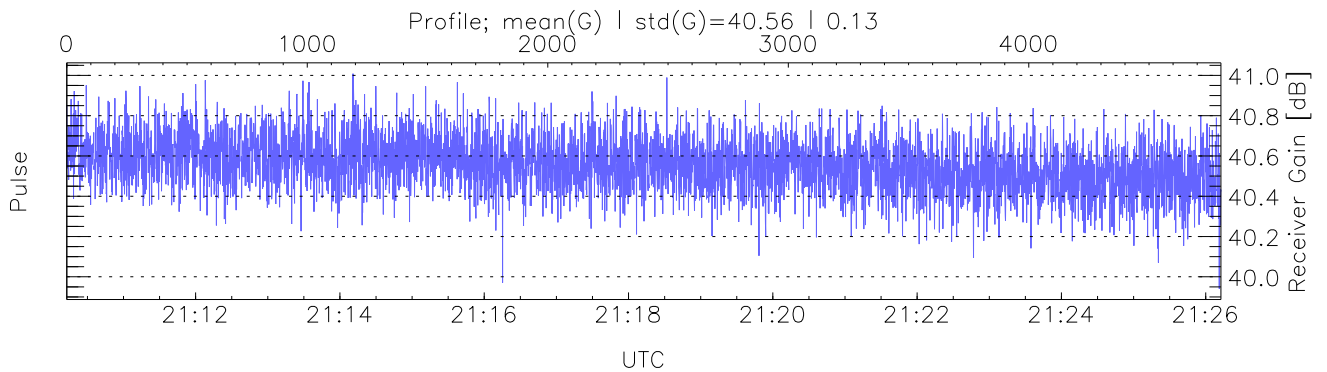
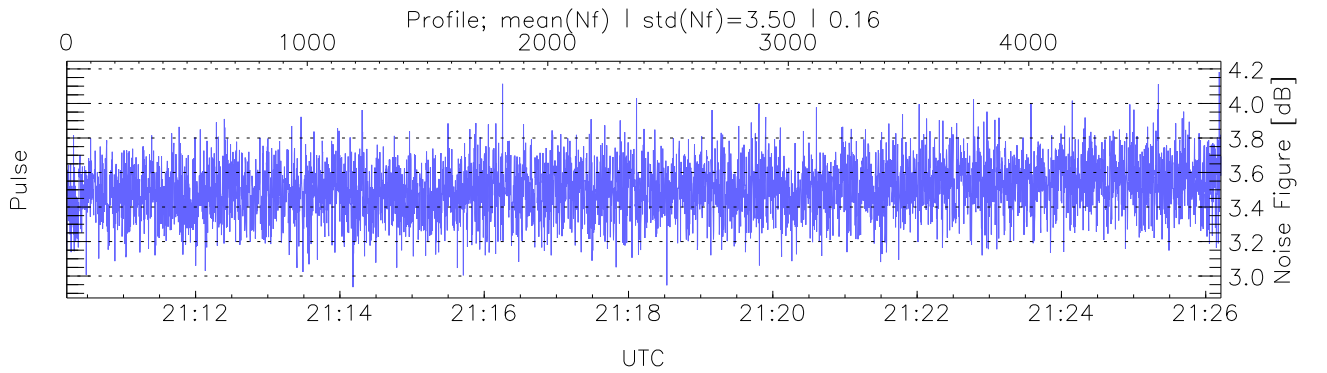
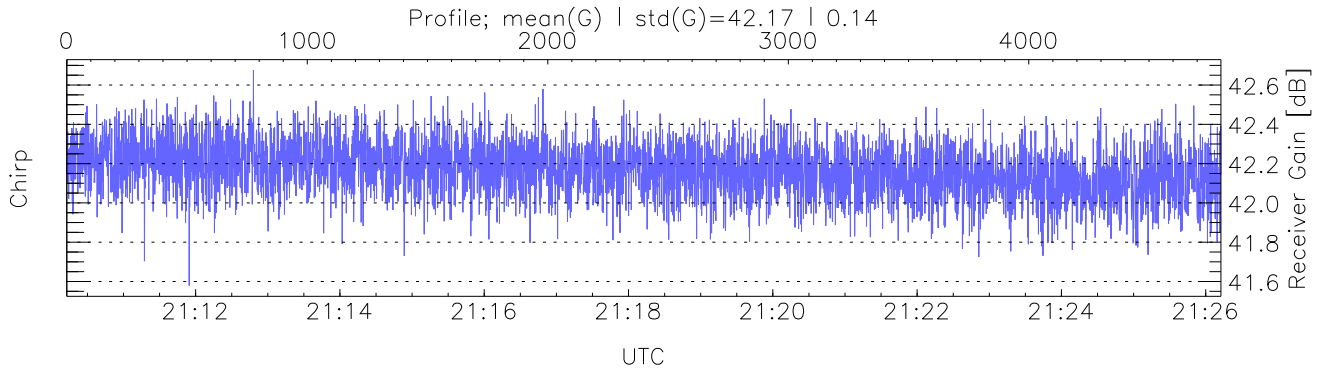
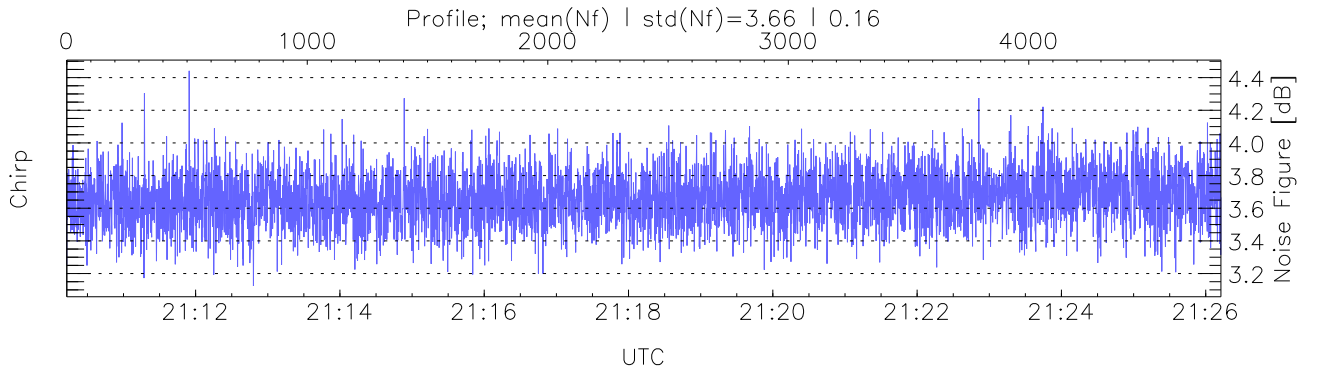


KPR SPP Temperatures, Power Supplies, PLO lock:

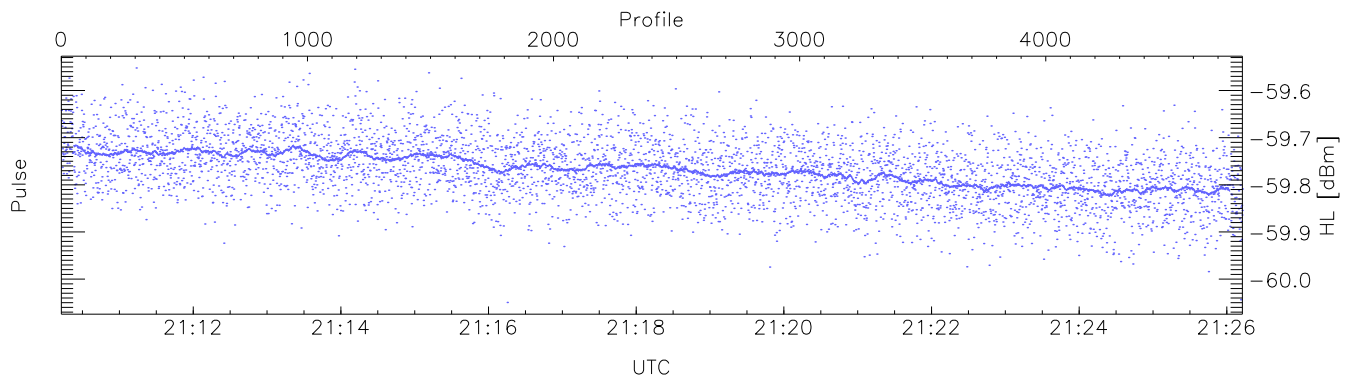
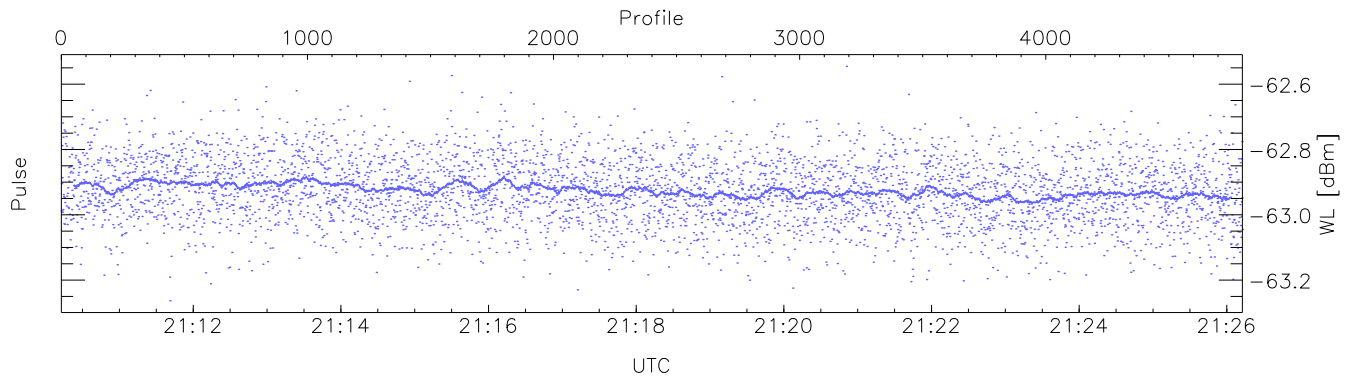
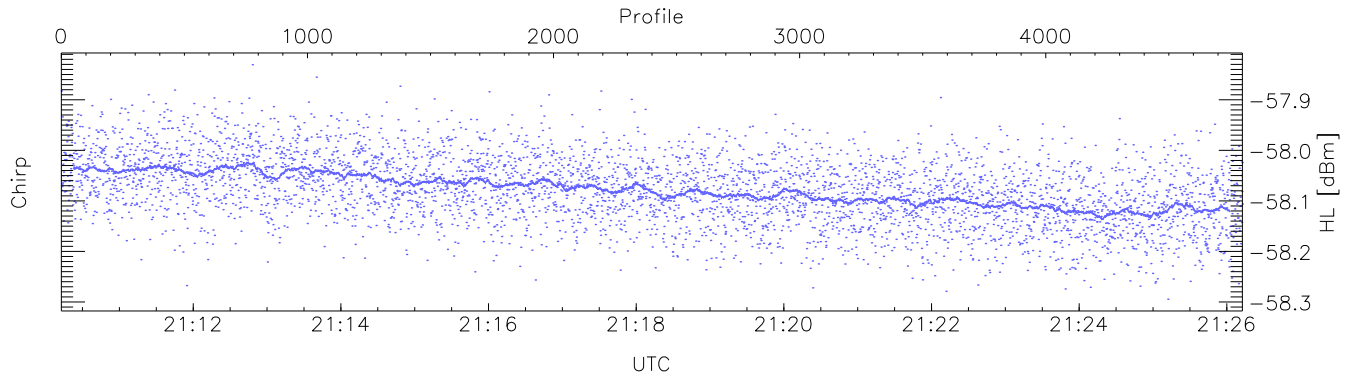
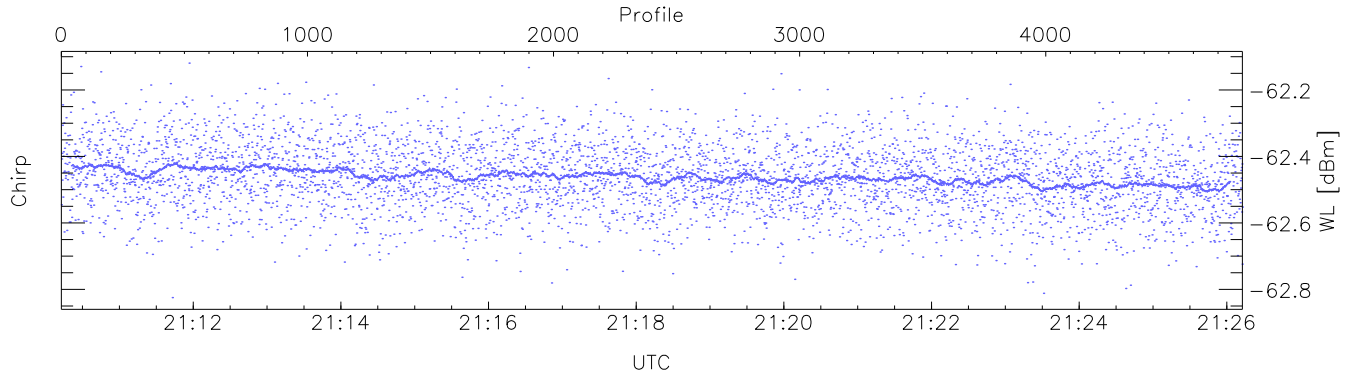
temperature:	NS,	LO,	Tx,	RM,	LNA,	Head,	Ant
mintempC:	18.4,	18.5,	22.5,	14.8,	20.5,	-1.5,	15.2
maxtempC:	19.8,	19.8,	23.9,	16.5,	22.0,	2.6,	16.6
meantempC:	18.9,	19.0,	23.2,	15.6,	21.2,	1.5,	16.0

PwrSply:	28,	12,	8,	5 VDC
minVDC:	26.03,	11.68,	7.87,	5.22
maxVDC:	27.80,	11.73,	7.90,	5.23
meanVDC:	26.99,	11.71,	7.88,	5.22

PLO(3.84,15.84 GHz) unlocked: None

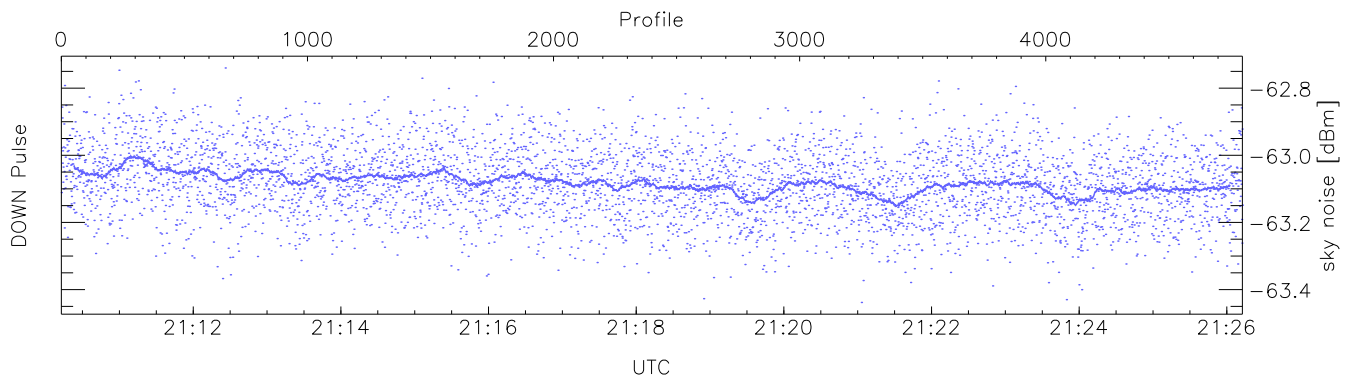
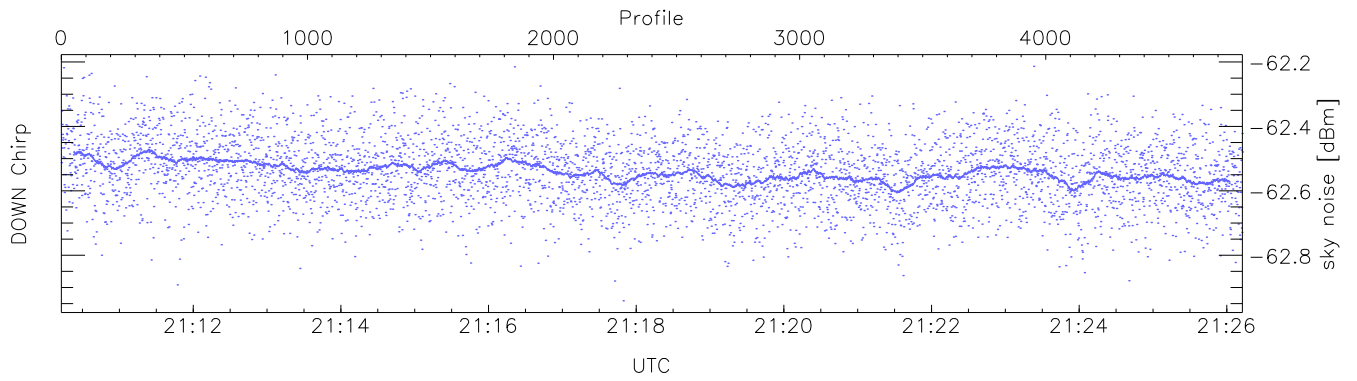
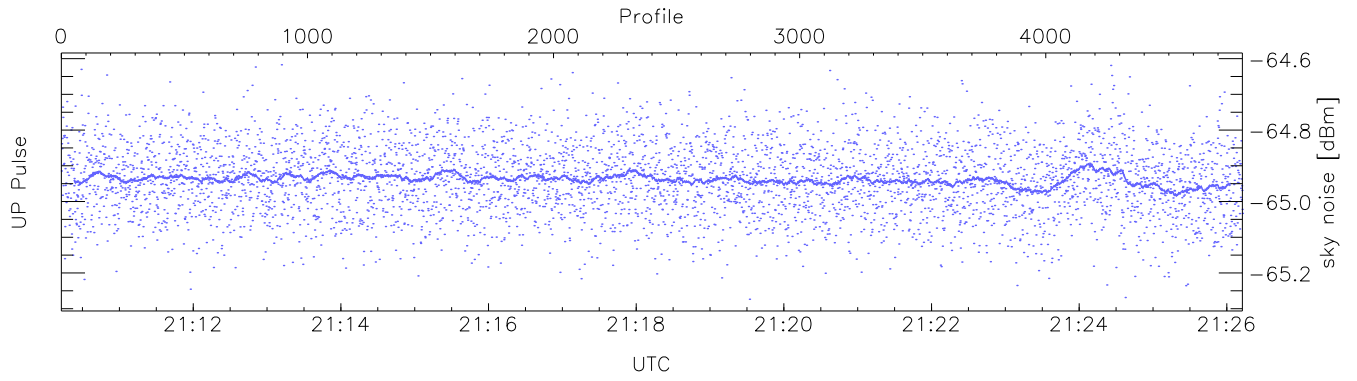
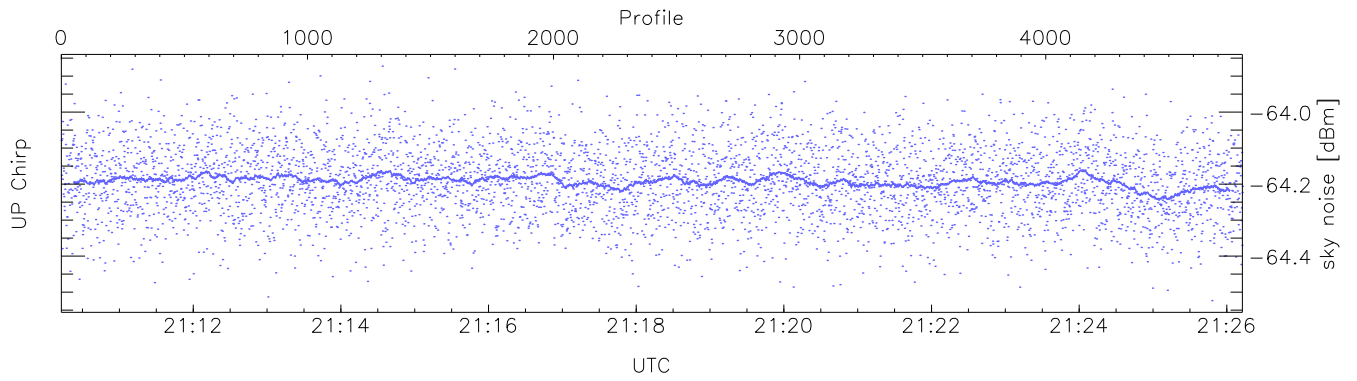


KPR SPP Receiver Gain and Noise Figure



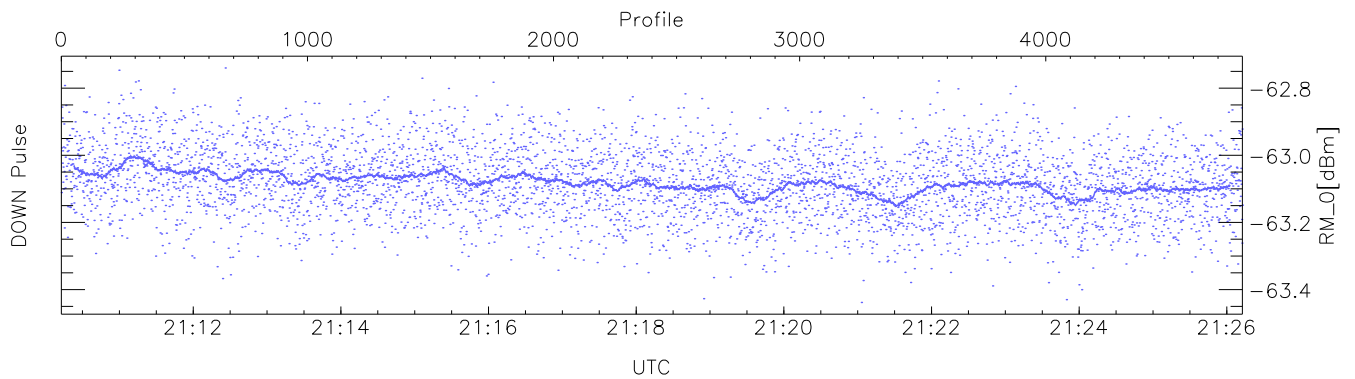
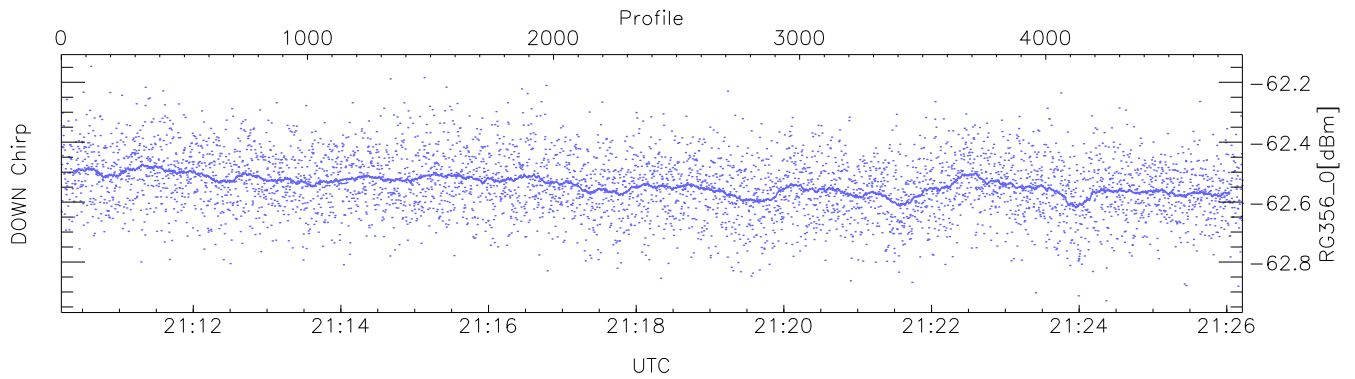
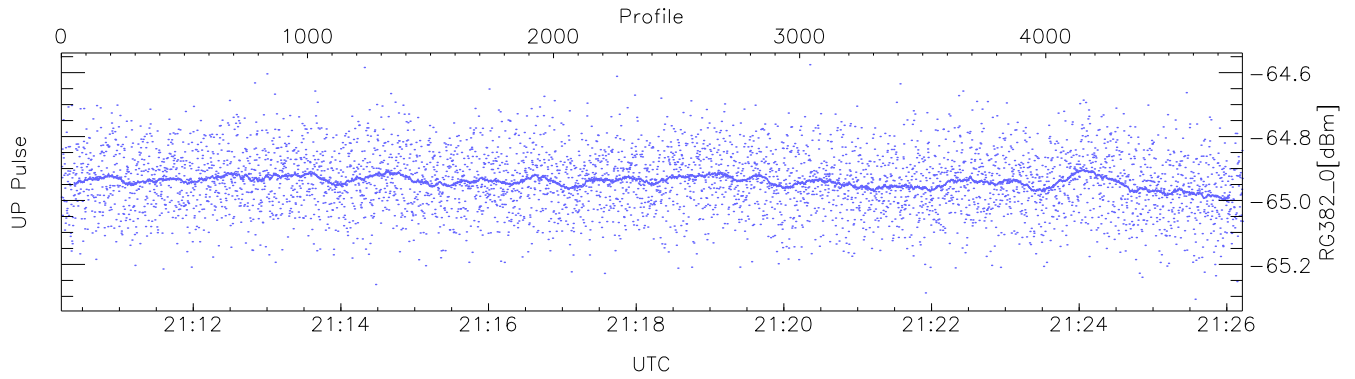
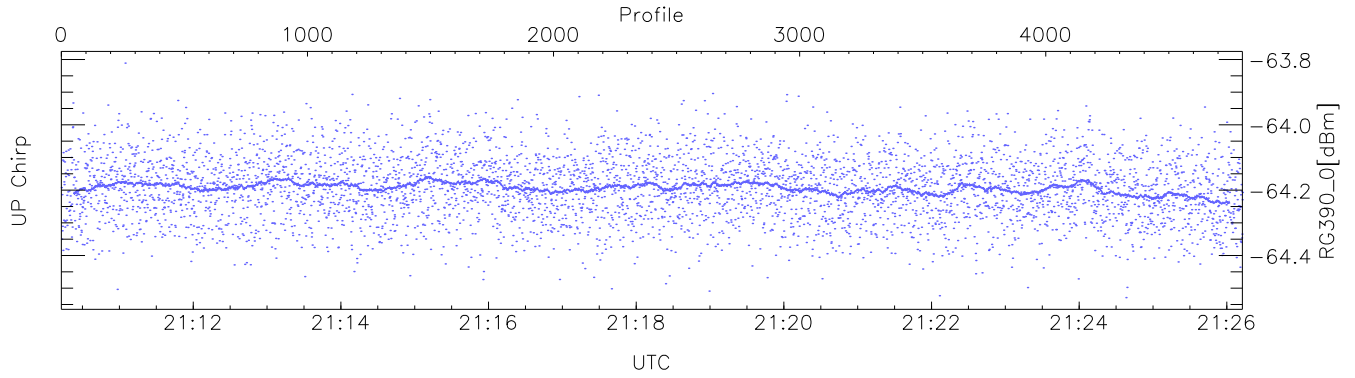
KPR SPP Receiver Noise Source Warm and Hot Measurements

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-62.82	-62.12	-62.46	-62.46	-78.92
Chirp(HL [dBm])	-58.29	-57.83	-58.08	-58.08	-76.25
Pulse(WL [dBm])	-63.26	-62.55	-62.92	-62.93	-79.44
Pulse(HL [dBm])	-60.05	-59.55	-59.77	-59.77	-77.93



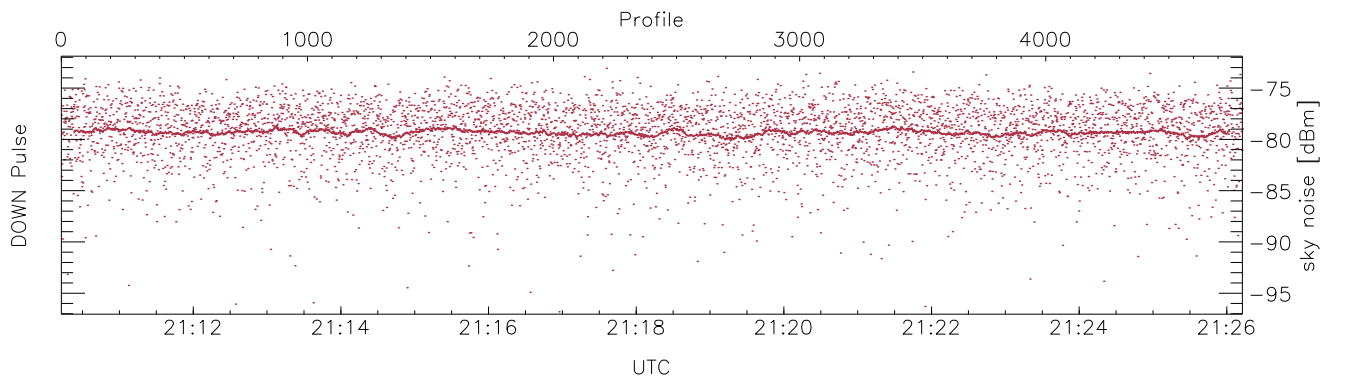
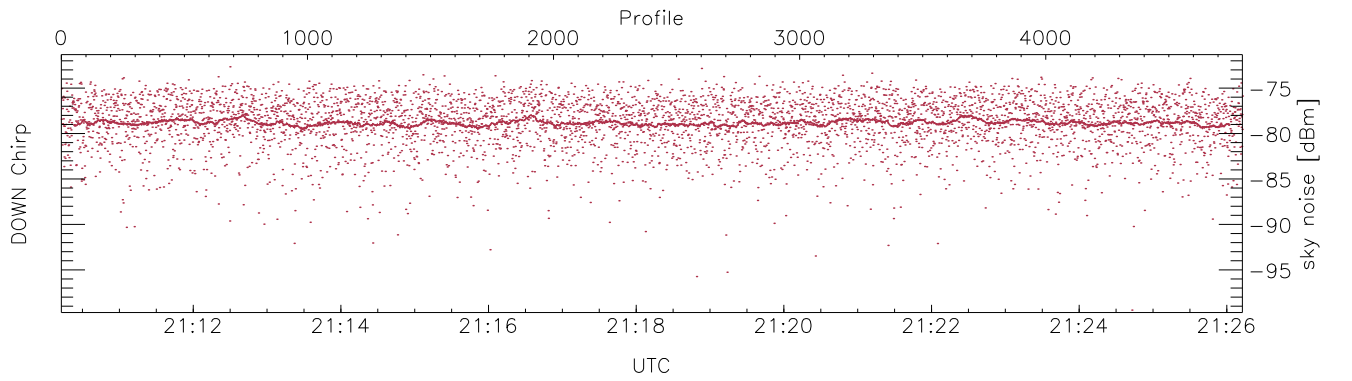
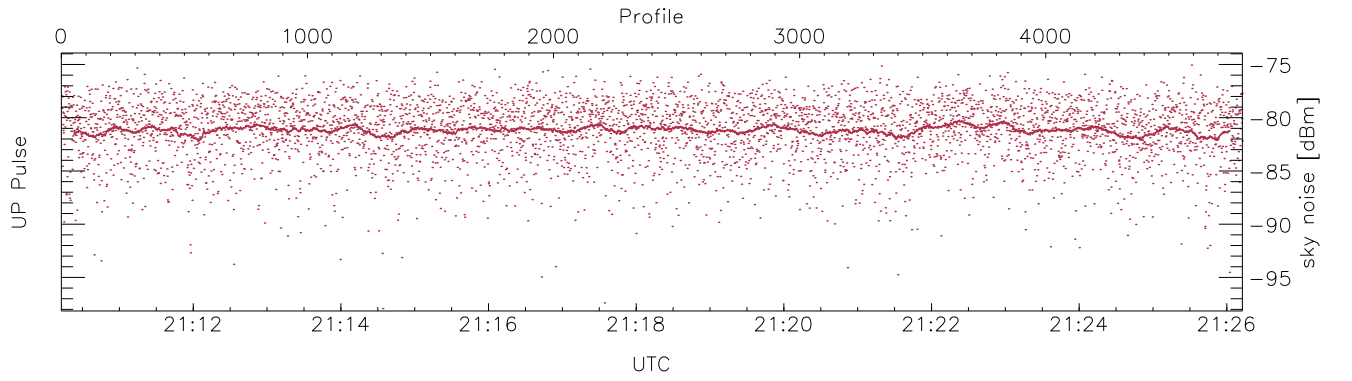
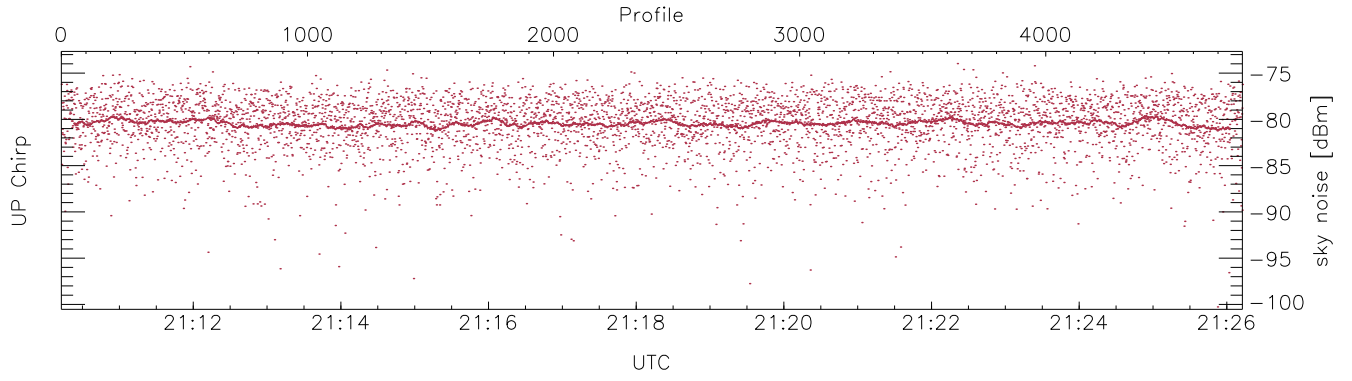
KPR SPP Last range gate power measurements: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-64.52	-63.87	-64.19	-64.19	-80.70
UP Pulse(dBm)	-65.27	-64.62	-64.94	-64.94	-81.40
DOWN Chirp(dBm)	-62.94	-62.21	-62.54	-62.54	-78.84
DOWN Pulse(dBm)	-63.44	-62.74	-63.08	-63.08	-79.41



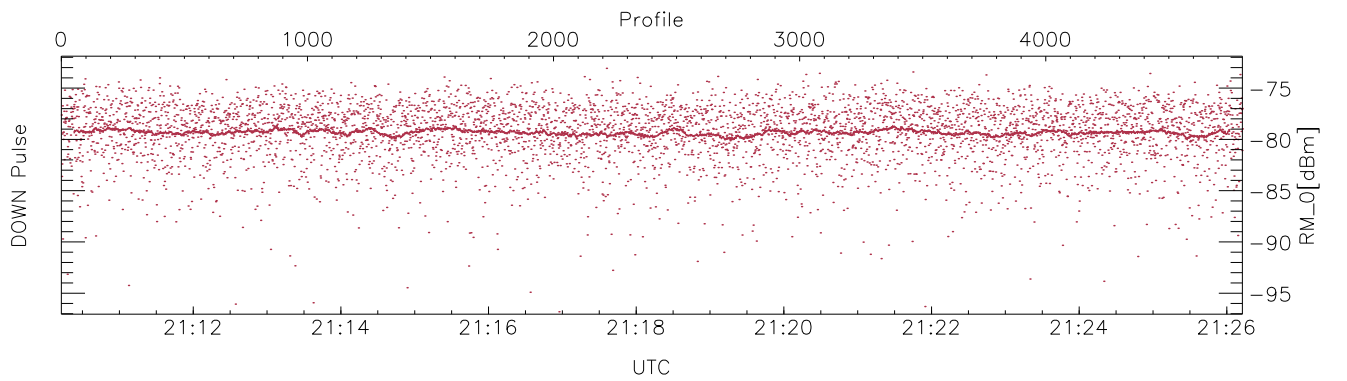
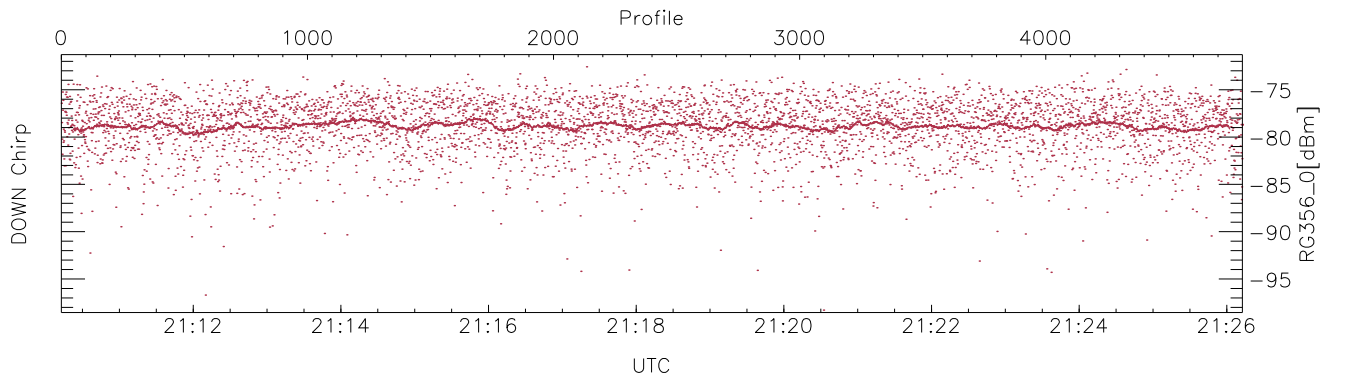
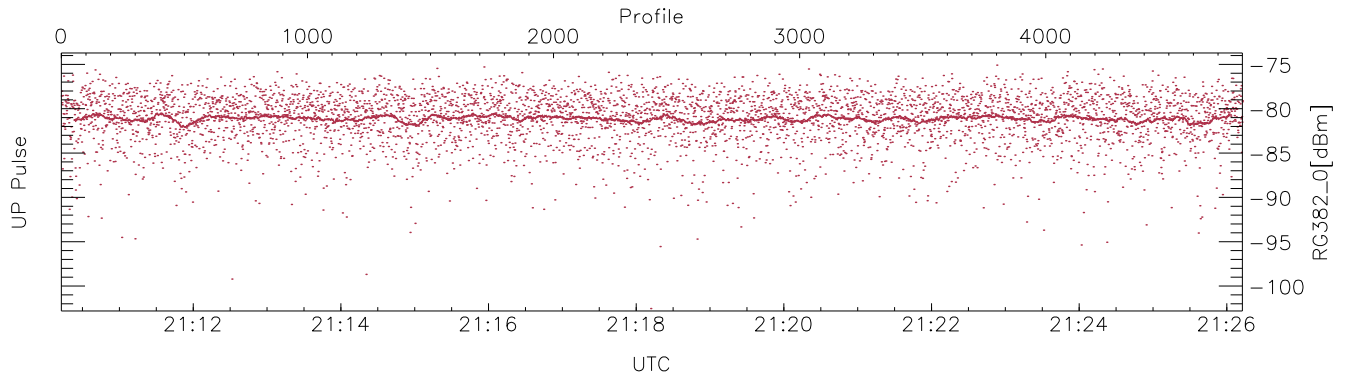
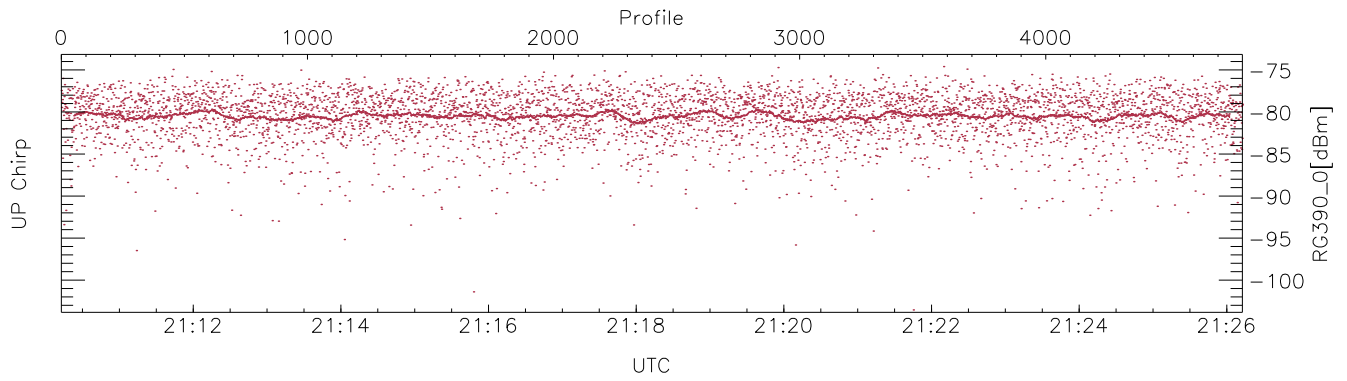
KPR SPP "Best" noise power measurements (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RG390_0	-64.53	-63.81	-64.19	-64.19	-80.70
UP_P_RG382_0	-65.31	-64.58	-64.94	-64.94	-81.35
DOWN_C_RG356_0	-62.93	-62.15	-62.54	-62.54	-78.74
DOWN_P_RM_0	-63.44	-62.74	-63.08	-63.08	-79.41



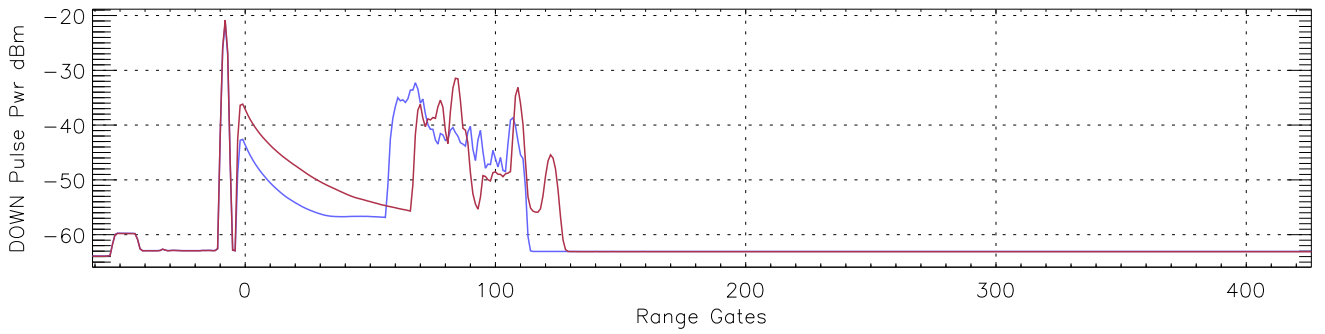
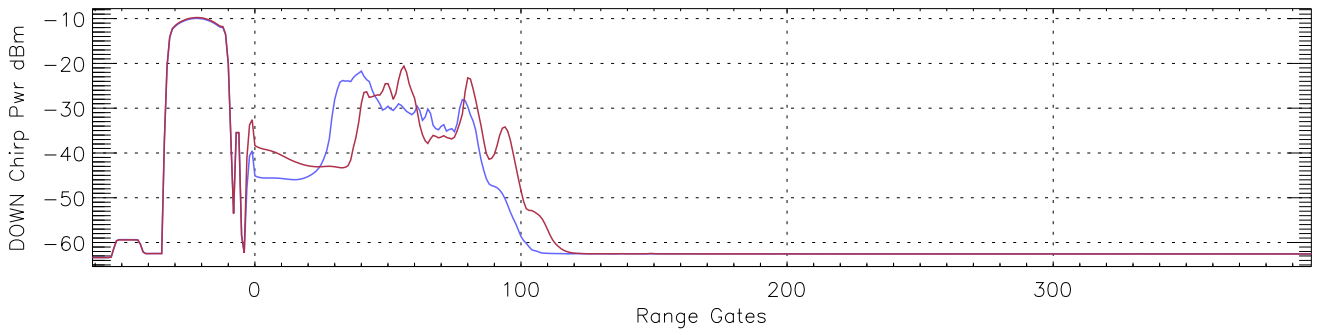
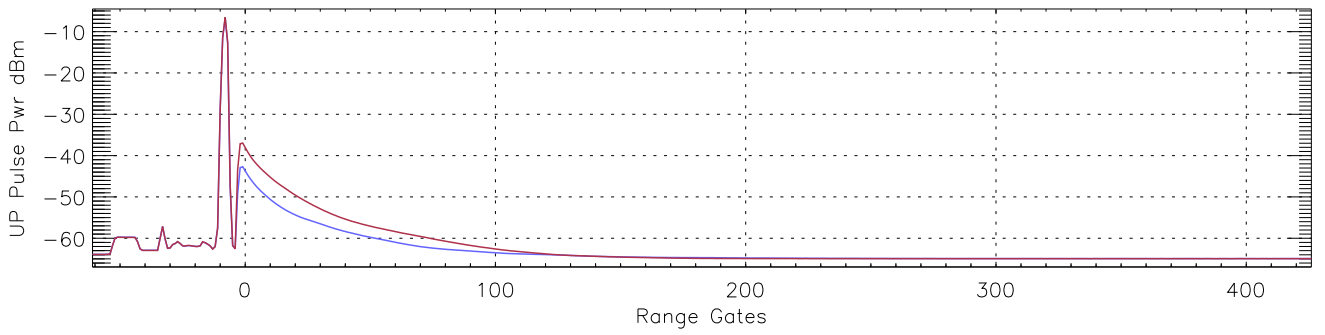
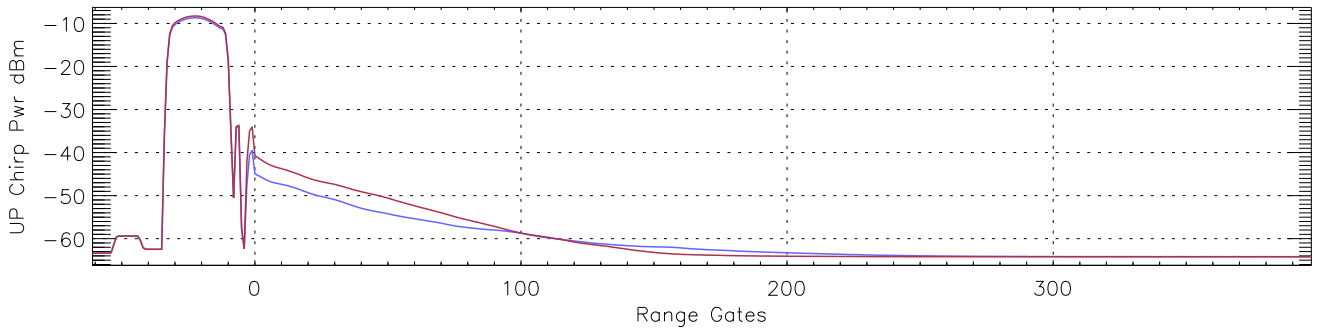
KPR SPP Last range gate PPMAG: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-100.27	-73.97	-79.69	-79.97	-82.44
UP Pulse(dBm)	-97.92	-75.06	-80.45	-80.75	-83.22
DOWN Chirp(dBm)	-99.43	-72.65	-78.10	-78.37	-80.93
DOWN Pulse(dBm)	-96.81	-73.08	-78.58	-78.84	-81.36

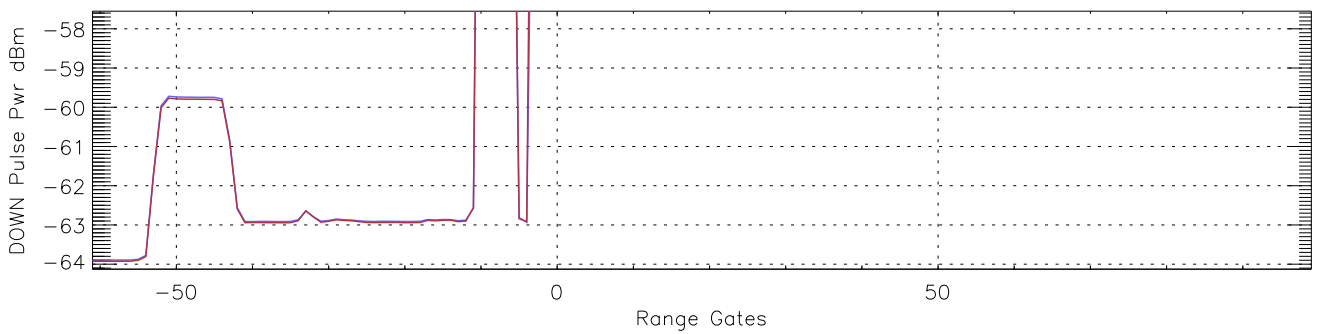
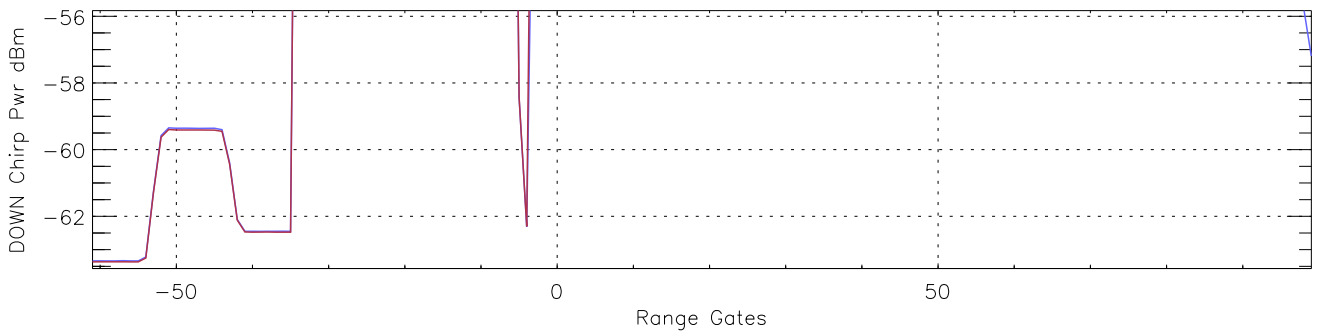
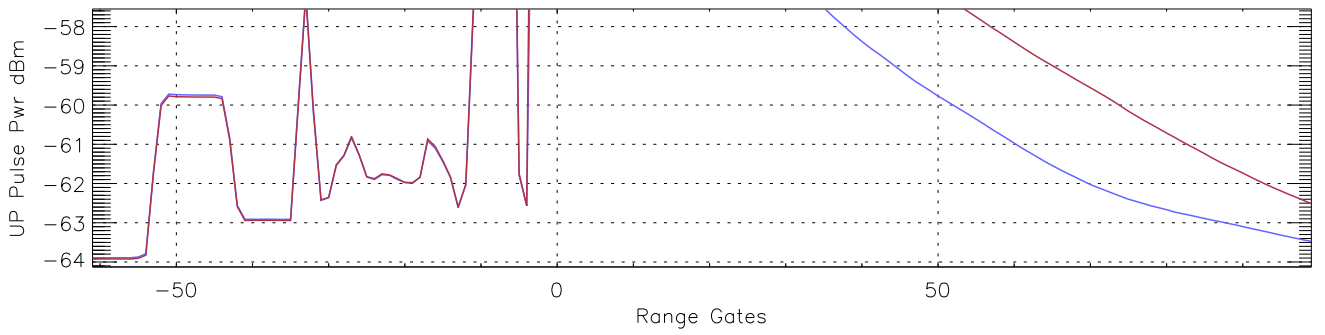
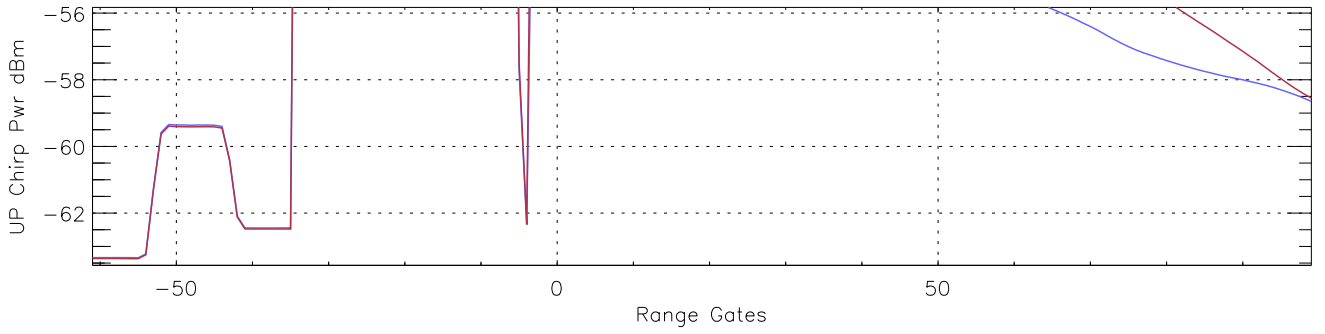


KPR SPP "Best" PPMAG noise (dBm):

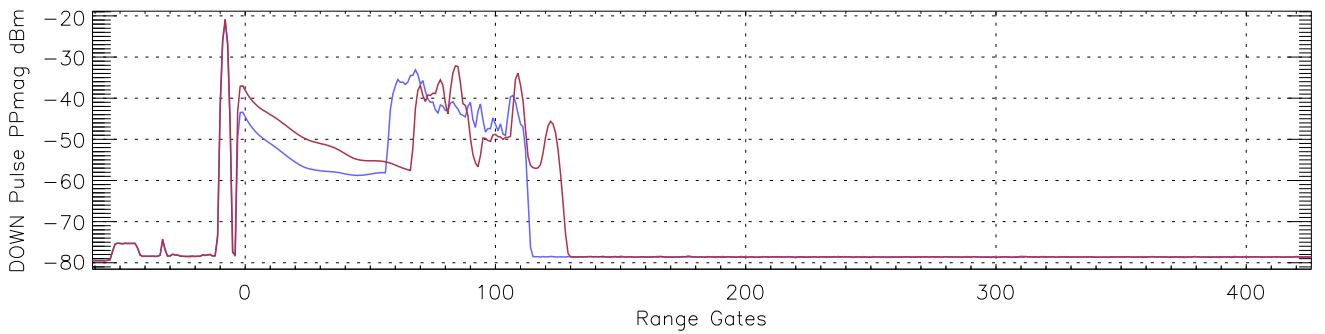
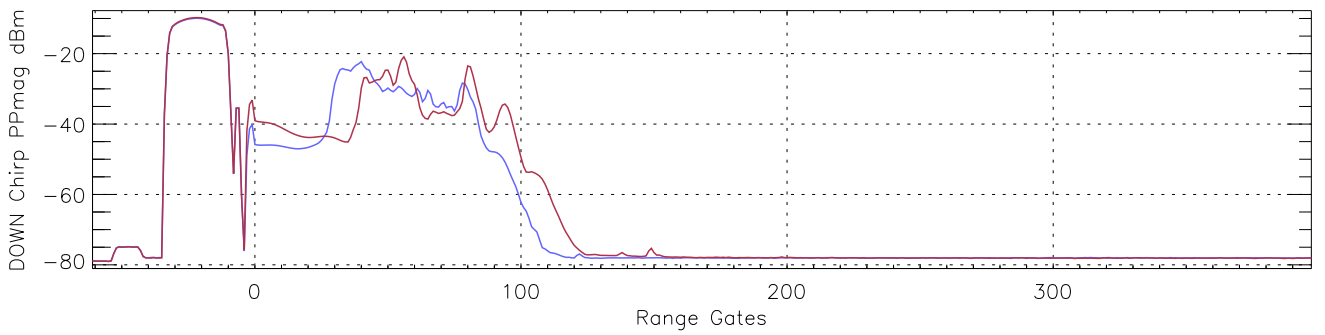
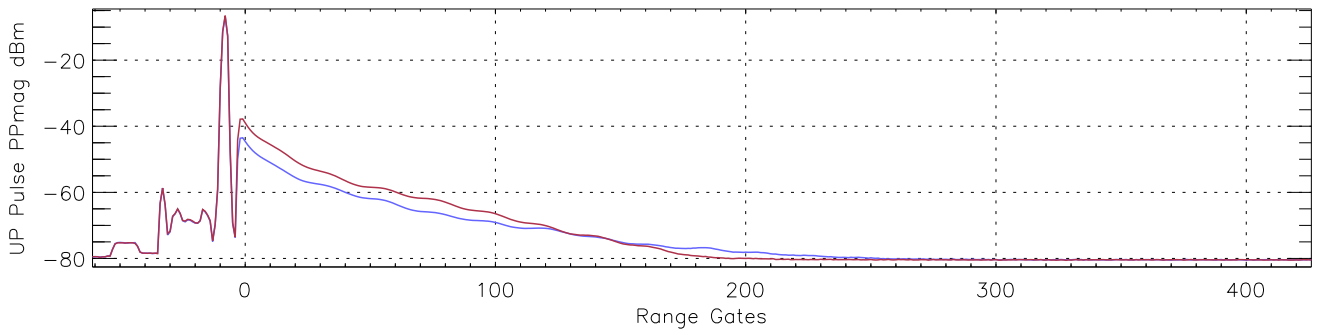
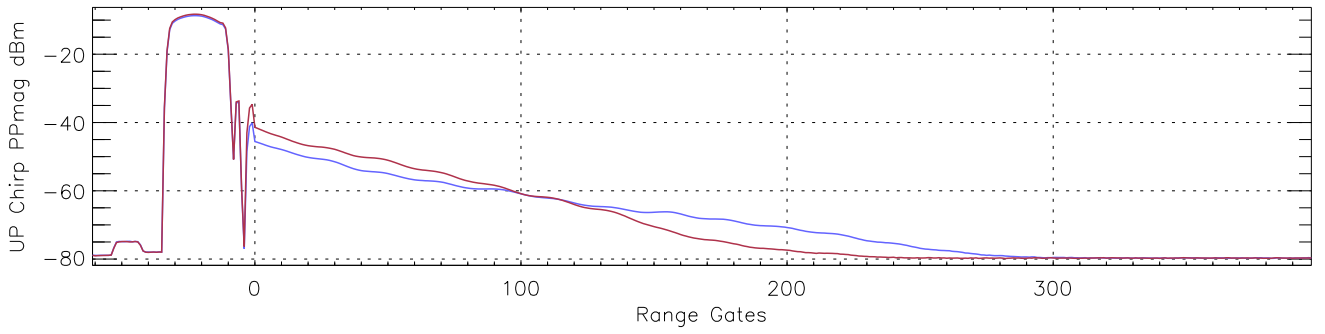
	Min	Max	Mean	Median	StDev
UP_C_RG390_0	-103.55	-74.60	-79.75	-80.00	-82.55
UP_P_RG382_0	-102.54	-75.09	-80.39	-80.65	-83.17
DOWN_C_RG356_0	-98.29	-72.57	-78.10	-78.37	-80.83
DOWN_P_RM_0	-96.81	-73.08	-78.58	-78.84	-81.36



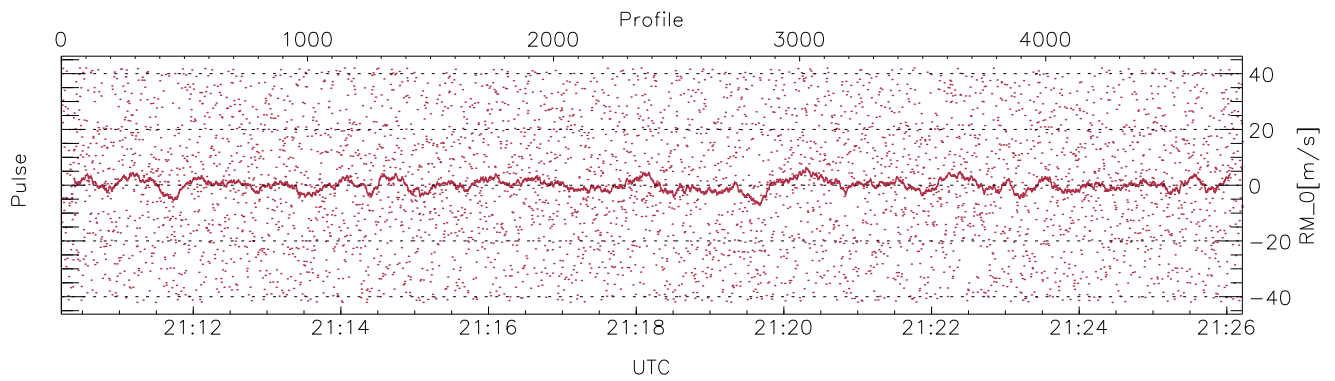
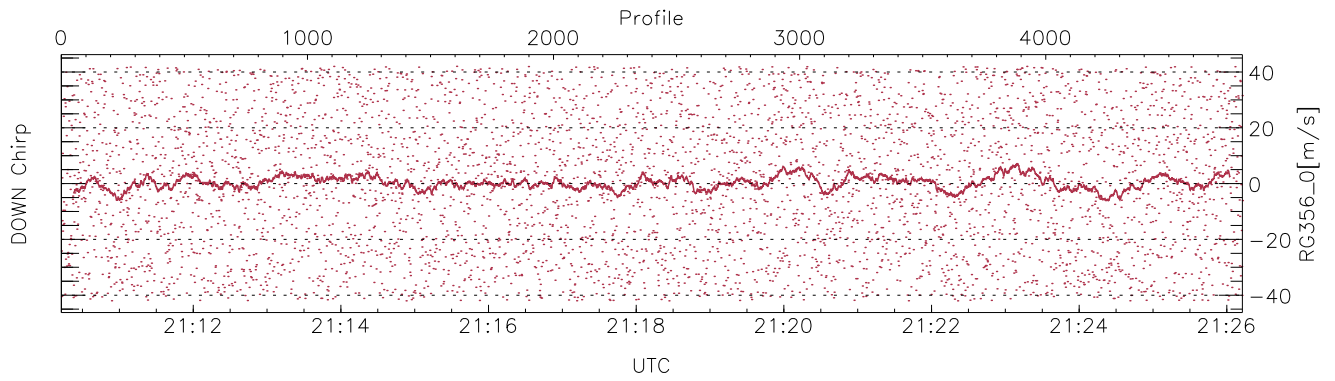
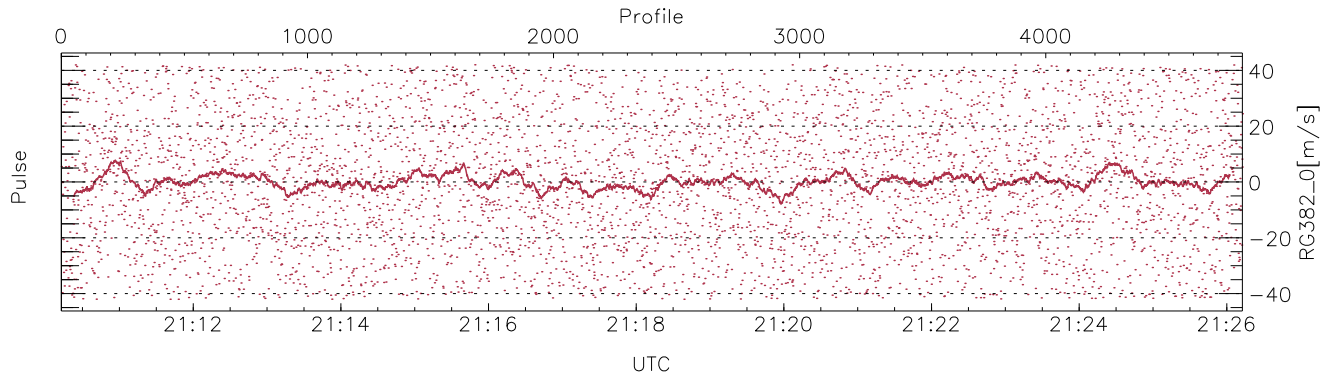
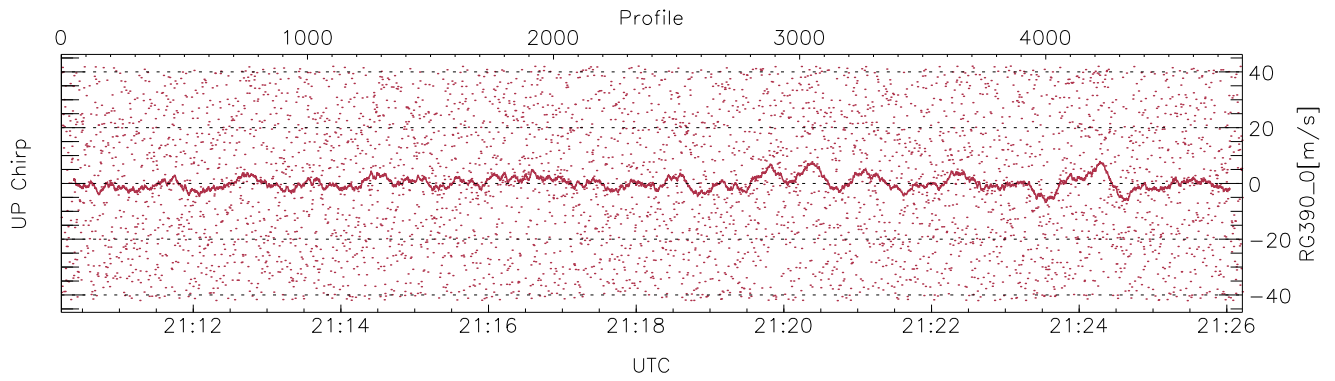
KPR SPP Averaged Received power for all recorded gates
blue: 211013-211812, 2401 profiles averaged
red: 211812-212613, 2400 profiles averaged



KPR SPP Averaged Power for neg. gates & up to 100 gates
blue: 211013-211812, 2401 profiles averaged
red: 211812-212613, 2400 profiles averaged

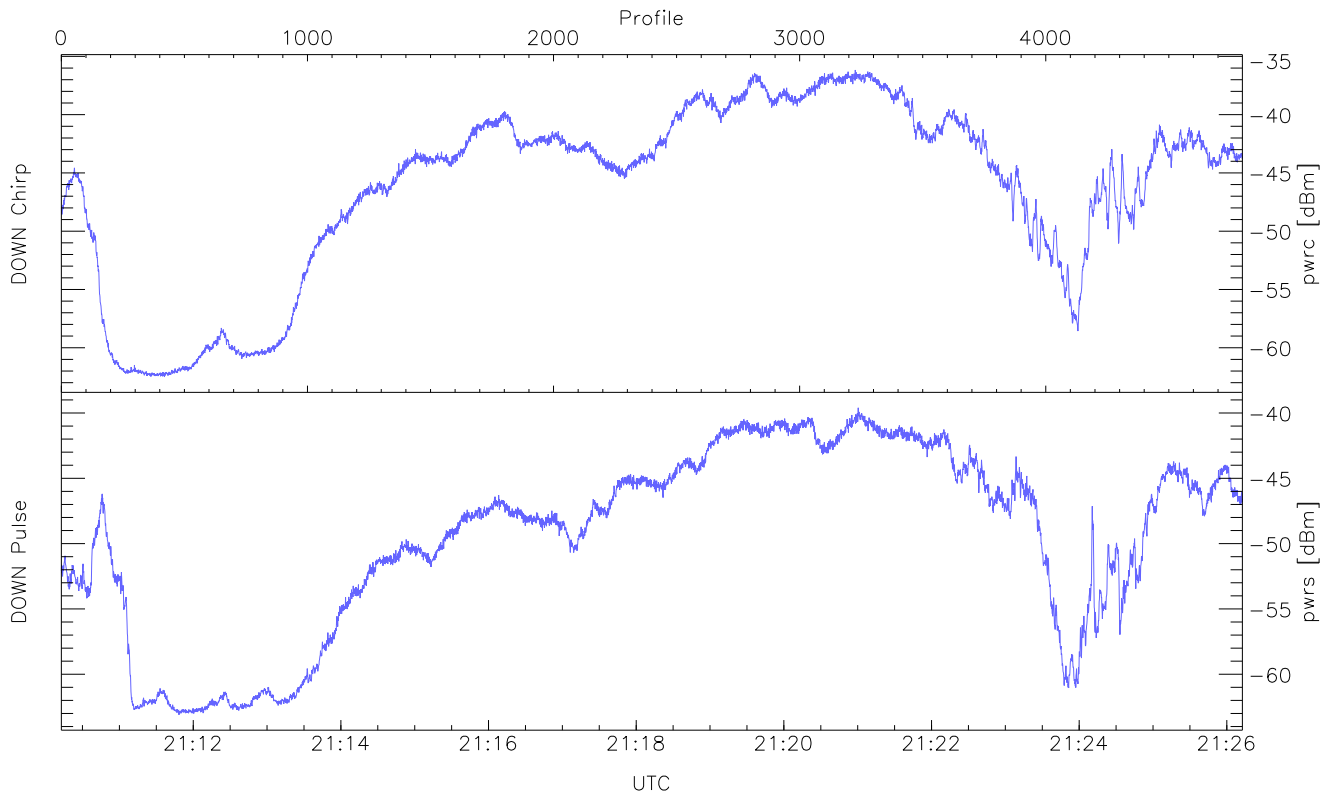
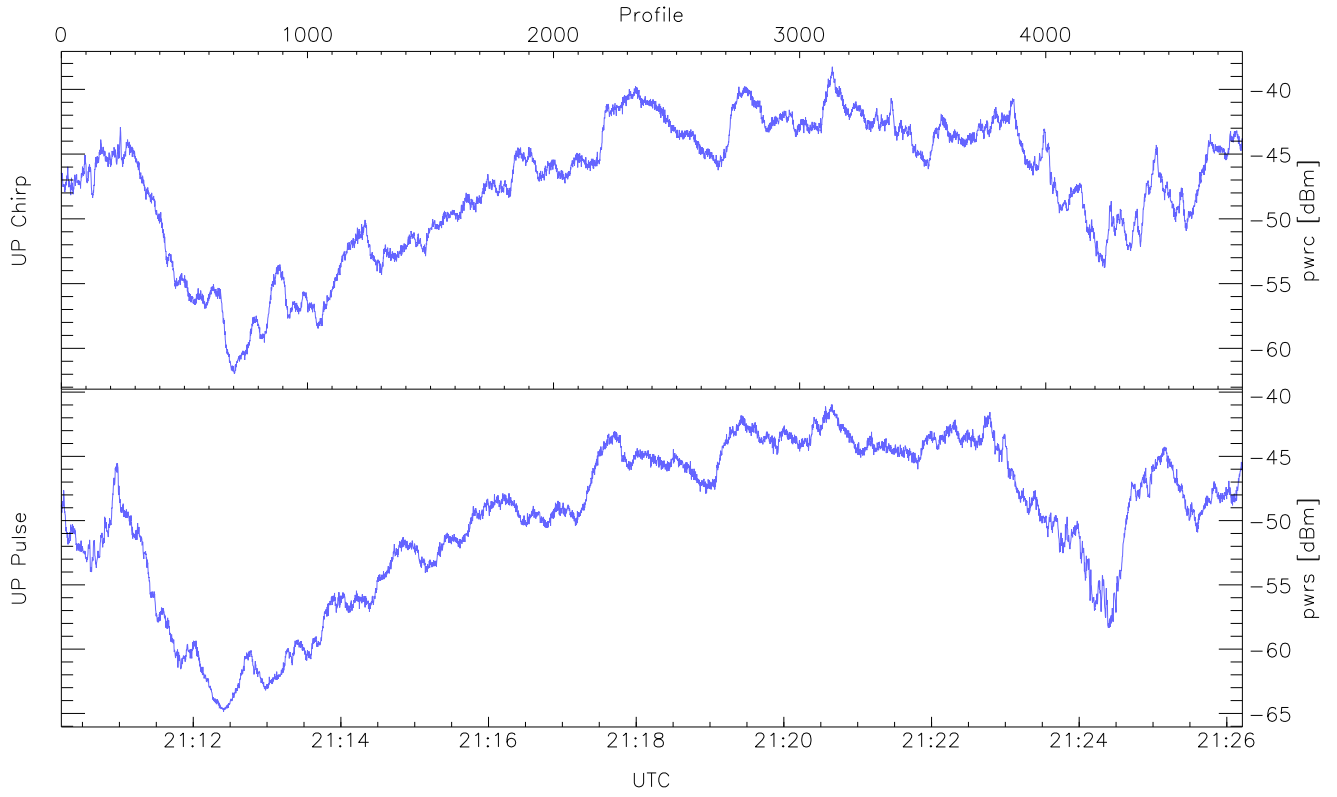


KPR SPP Averaged PP magnitude for all recorded gates
blue: 211013-211812, 2401 profiles averaged
red: 211812-212613, 2400 profiles averaged



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

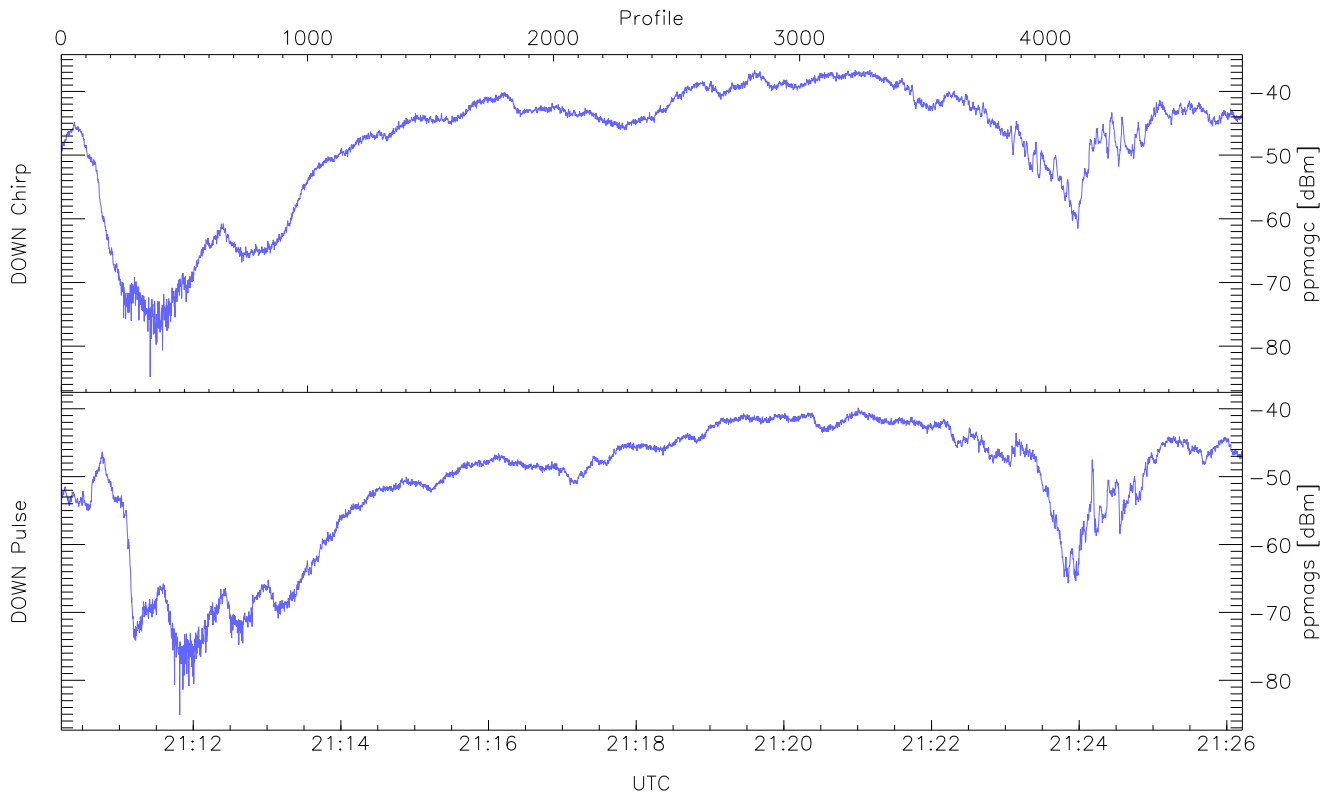
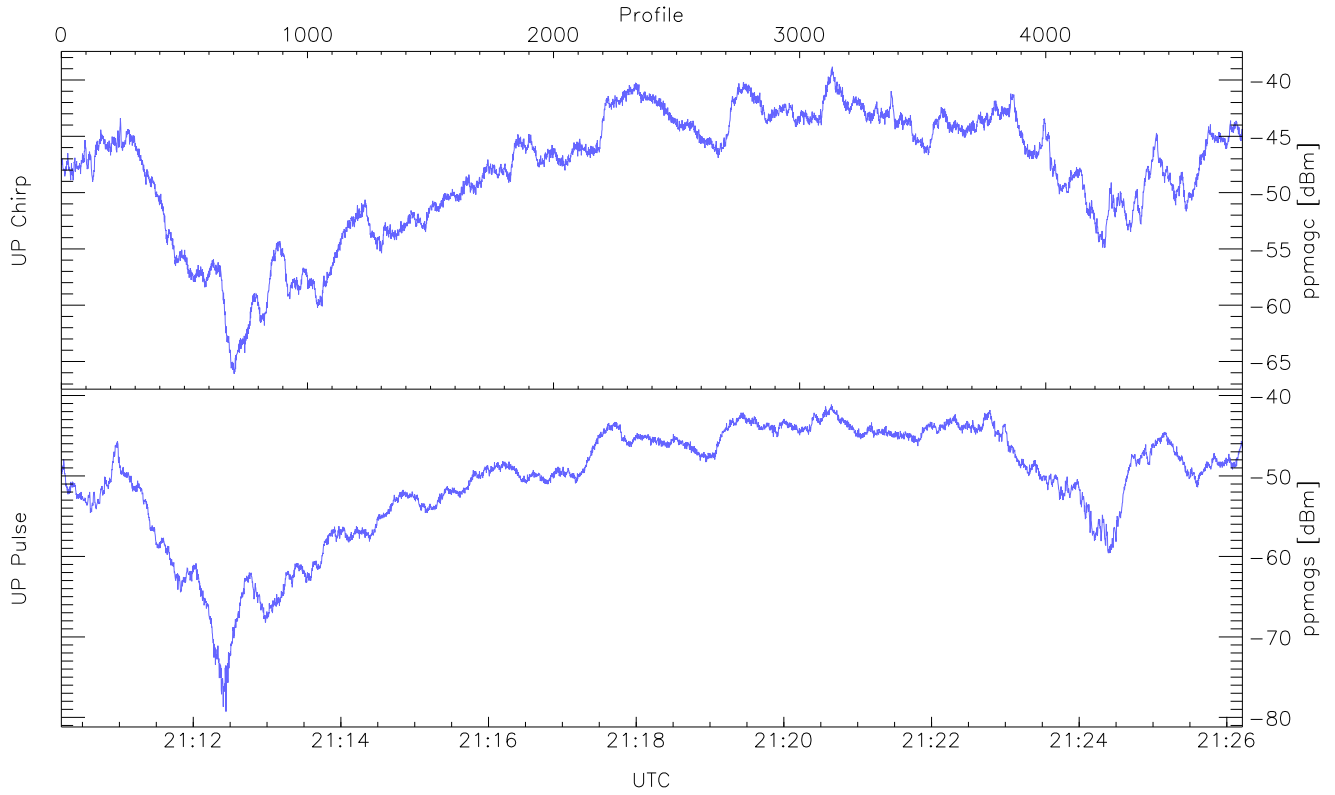
	Min	Max	Mean	Median	StDev
UP_C_RG390_0	-42.03	42.06	0.03	0.13	24.08
UP_P_RG382_0	-42.02	42.01	-0.02	0.30	22.51
DOWN_C_RG356_0	-42.03	42.02	0.23	0.81	24.20
DOWN_P_RM_0	-42.05	42.06	0.07	0.18	23.18



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

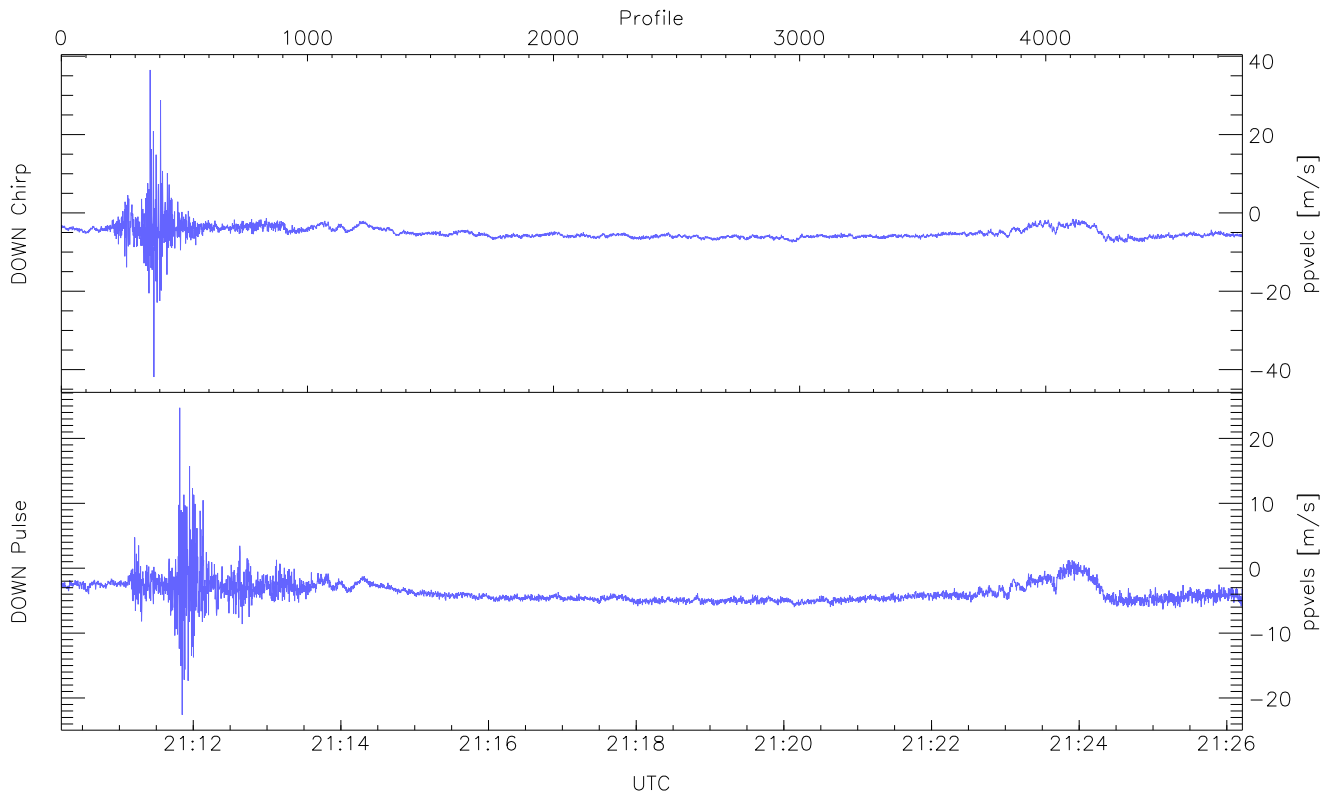
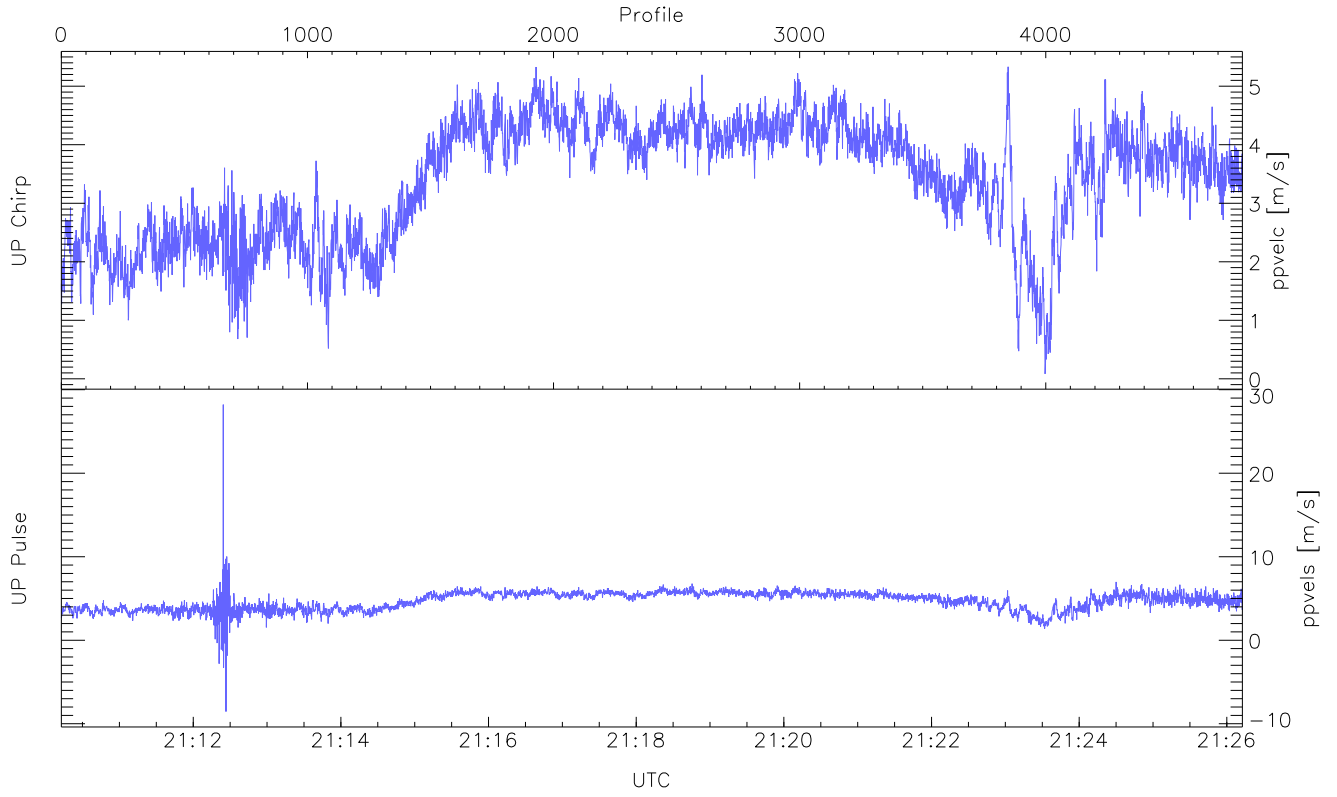
KPR SPP Received Power for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-61.97	-38.26	-45.18
UP Pulse(dBm)	-64.86	-40.97	-47.12
DOWN Chirp(dBm)	-62.51	-36.17	-42.38
DOWN Pulse(dBm)	-63.10	-39.60	-45.88



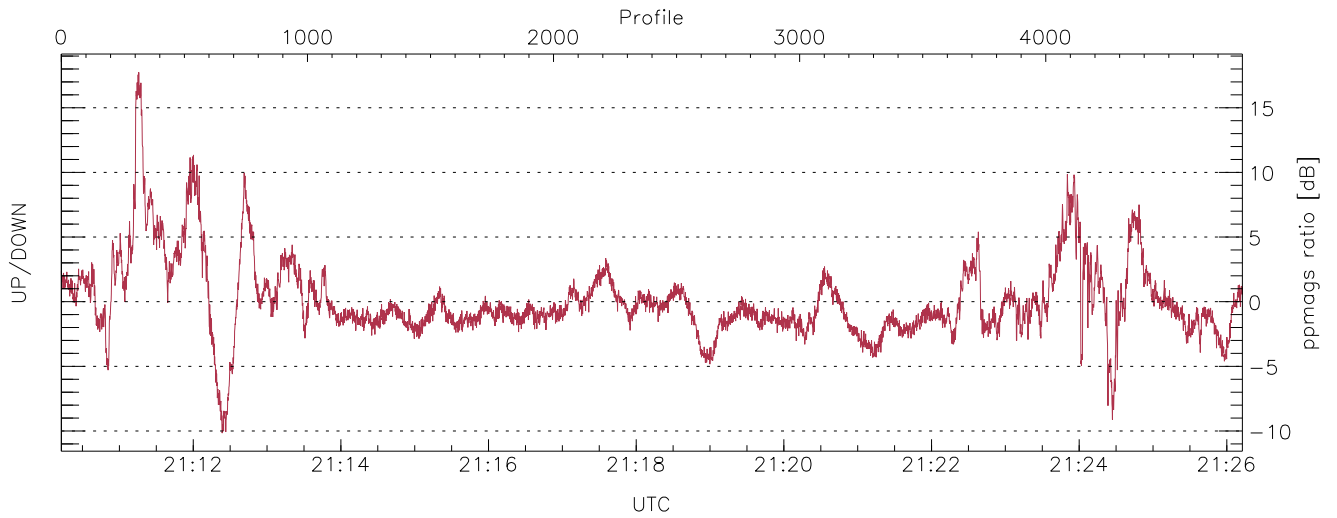
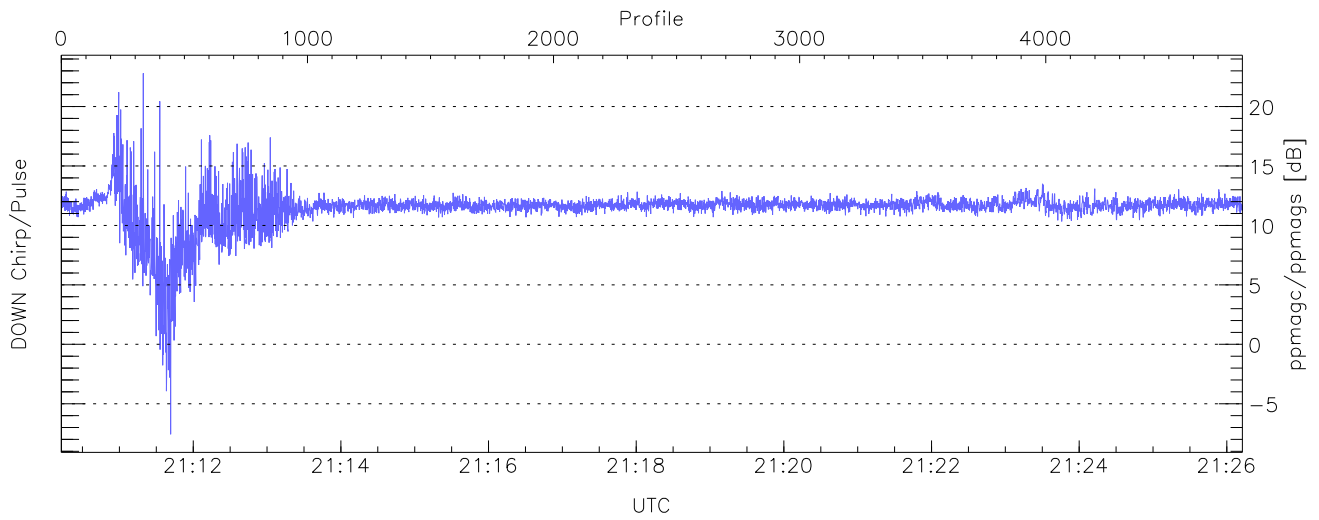
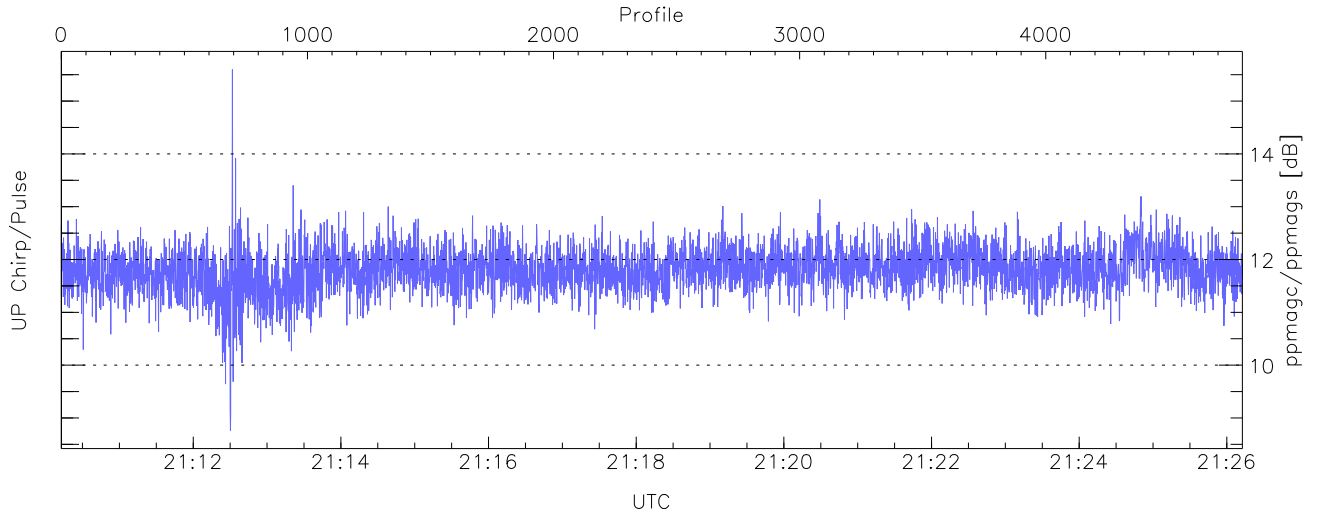
KPR SPP PPMAG for Chirp Range gate 10 (686.2 m)
 KPR SPP PPMAG for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-66.10	-38.82	-45.72
UP Pulse(dBm)	-79.28	-41.13	-47.45
DOWN Chirp(dBm)	-84.84	-36.63	-42.92
DOWN Pulse(dBm)	-85.08	-39.85	-46.21



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)	0.08	5.33	3.37
UP Pulse(m/s)	-8.55	28.23	4.68
DOWN Chirp(m/s)	-41.90	36.49	-5.07
DOWN Pulse(m/s)	-22.59	24.73	-3.77



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

	Min	Max	Mean
UP Chirp/Pulse(dBm)	8.76	15.60	11.83
DOWN Chirp/Pulse(dBm)	-7.57	22.80	11.68
UP/DOWN Ratio at Range 135.8 m			
	Min	Max	Mean
UP/DOWN(dB)	-10.17	17.76	1.85