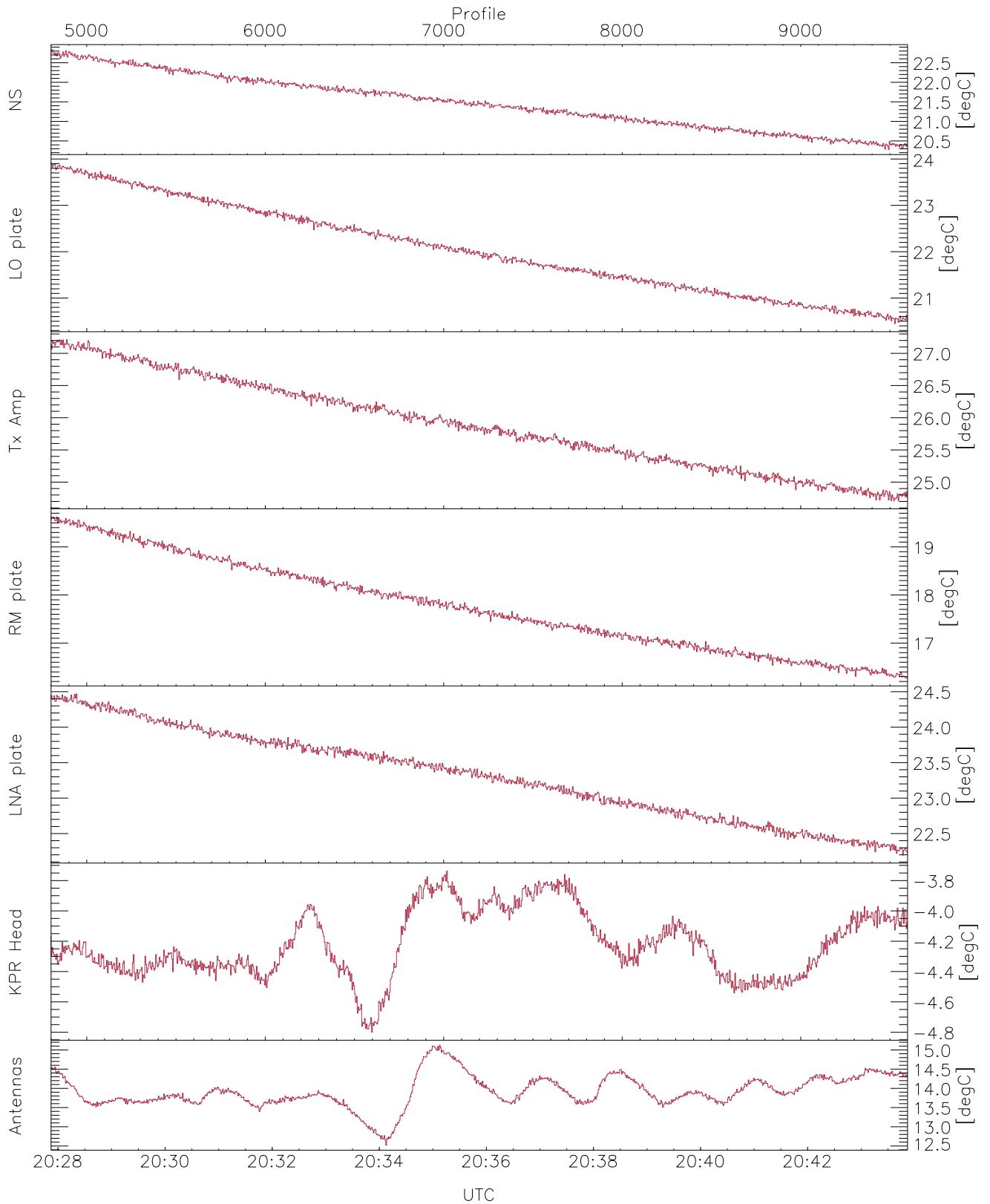


KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF
 UTC: 20:11:52-20:57:21, TimeCor: 0.00s, Dur: 959.80s
 TimeInt(min,max,mn,std): 188.7,211.3,200.0,0.7 ms; PPS: 5.0
 NumRec(r/t): 4800/13644, 4800-9599/20:27:52-20:43:52
 AcqTime(req,actual): 200.0,200.0 ms, Data Rate: 187.6 KB/s
 Pulse: 247 ns, Chirp: 2.47 us, 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

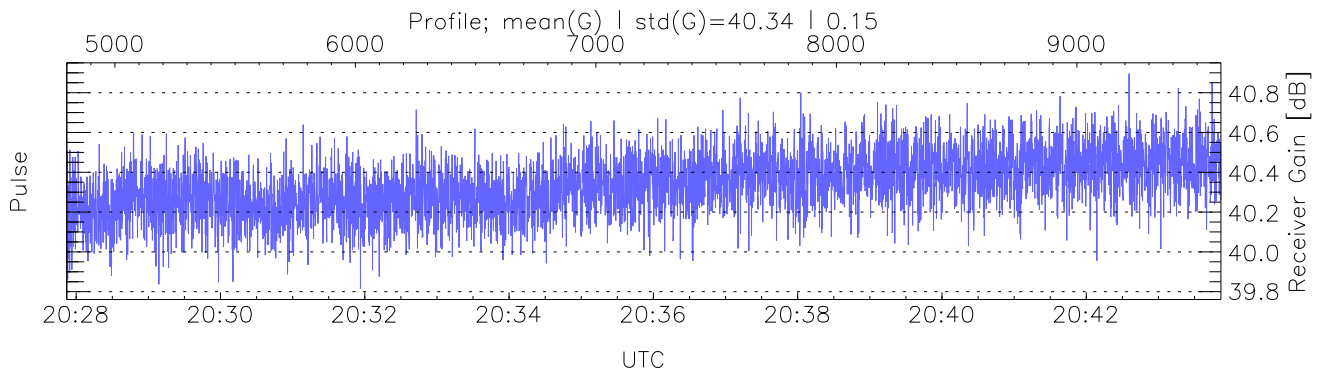
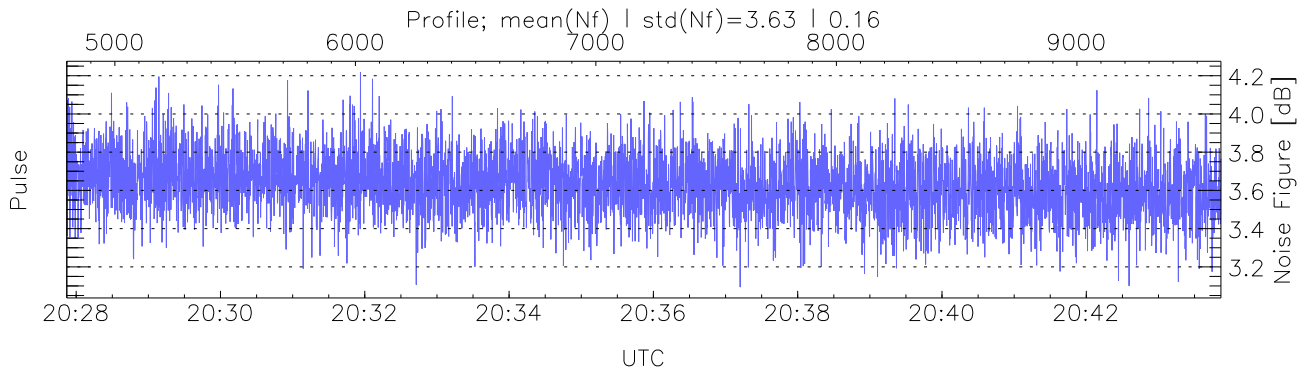
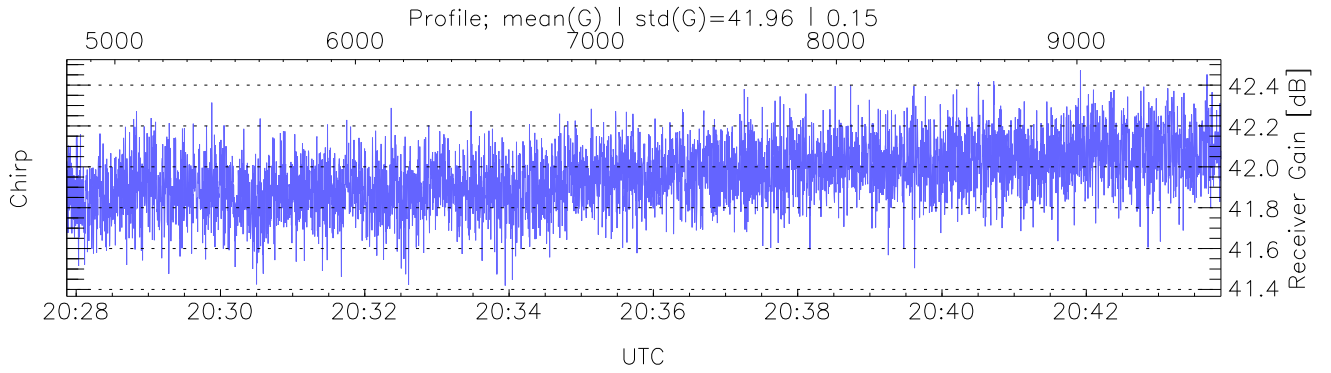
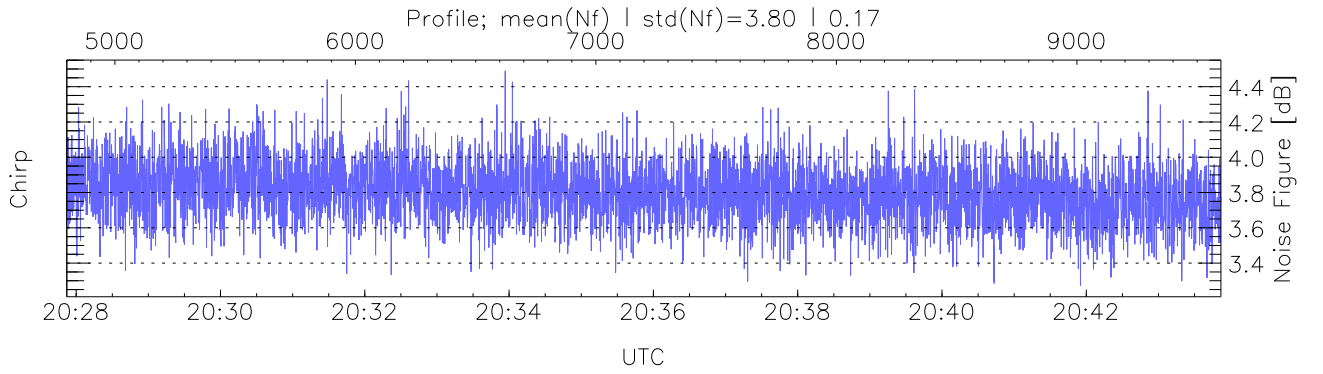


KPR SPP Temperatures, Power Supplies, PLO lock:

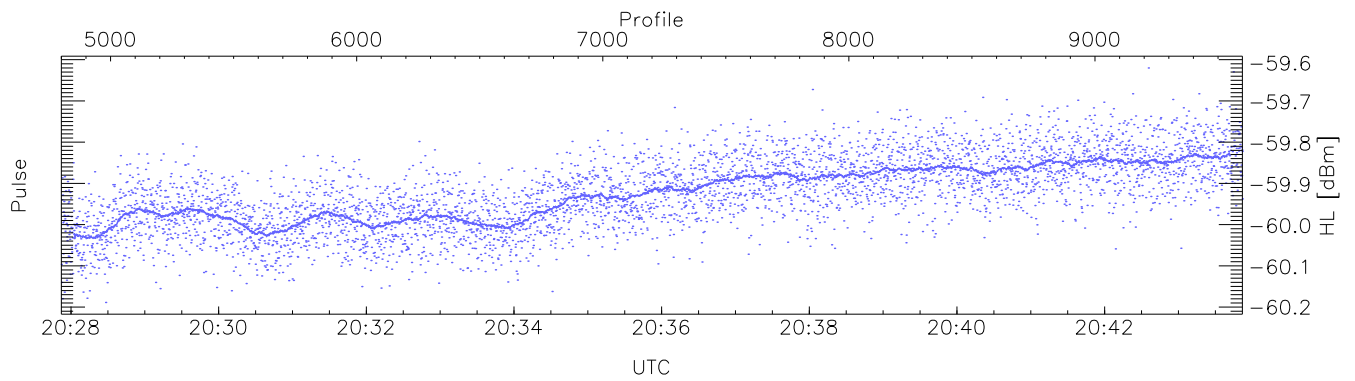
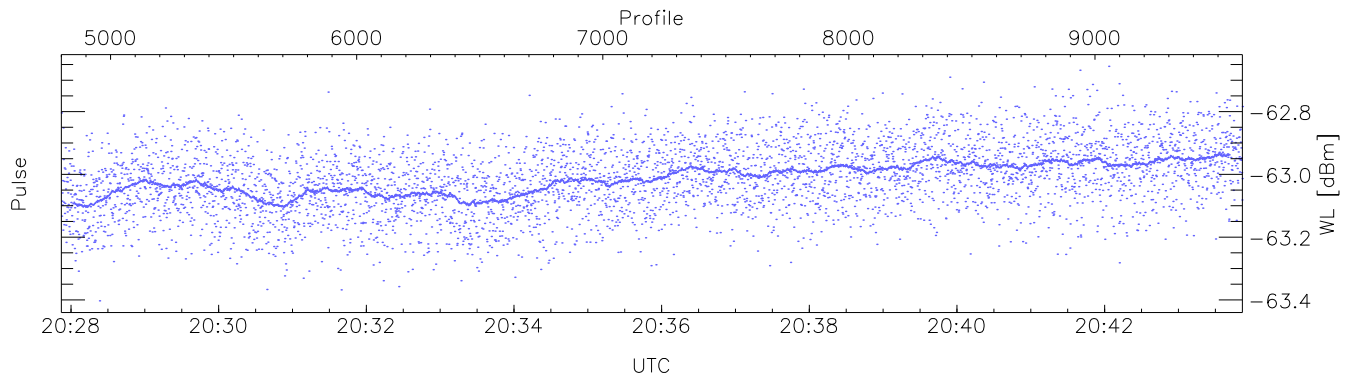
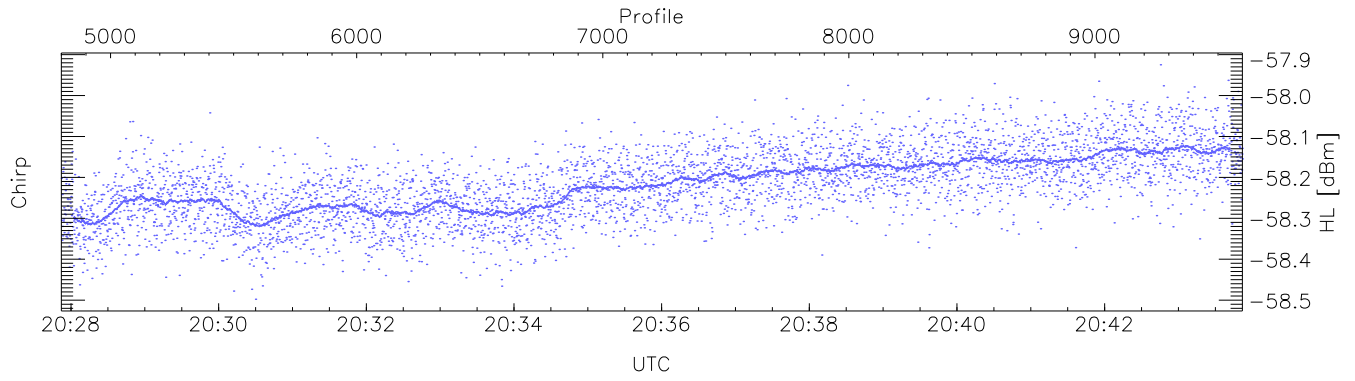
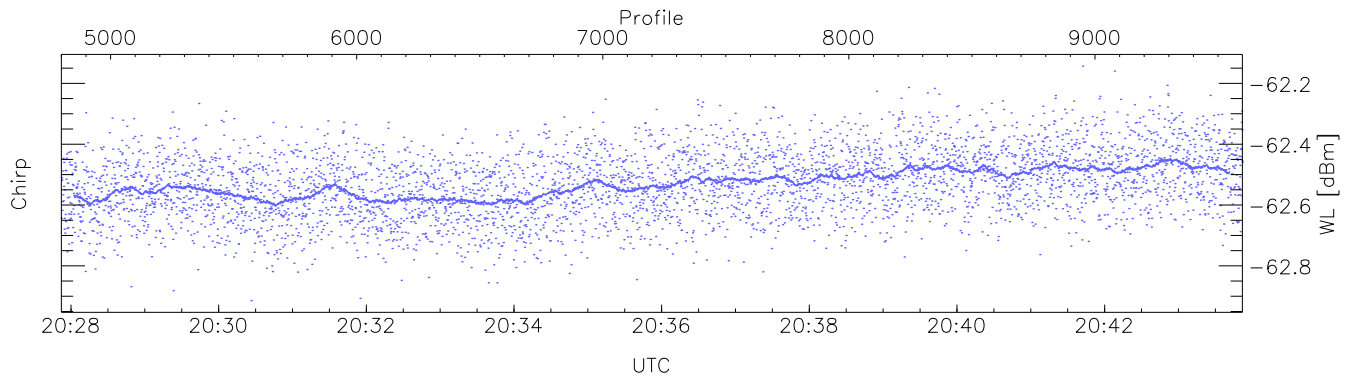
temperature:	NS,	LO,	Tx,	RM,	LNA,	Head,	Ant
mintempC:	20.3,	20.4,	24.7,	16.3,	22.2,	-4.8,	12.5
maxtempC:	22.8,	23.9,	27.2,	19.6,	24.5,	-3.7,	15.1
meantempC:	21.5,	22.0,	25.9,	17.8,	23.3,	-4.2,	13.9

PwrSply:	28,	12,	8,	5 VDC
minVDC:	25.98,	11.68,	7.87,	5.21
maxVDC:	27.85,	11.73,	7.90,	5.23
meanVDC:	26.94,	11.71,	7.88,	5.22

PLO(3.84,15.84 GHz) unlocked: None

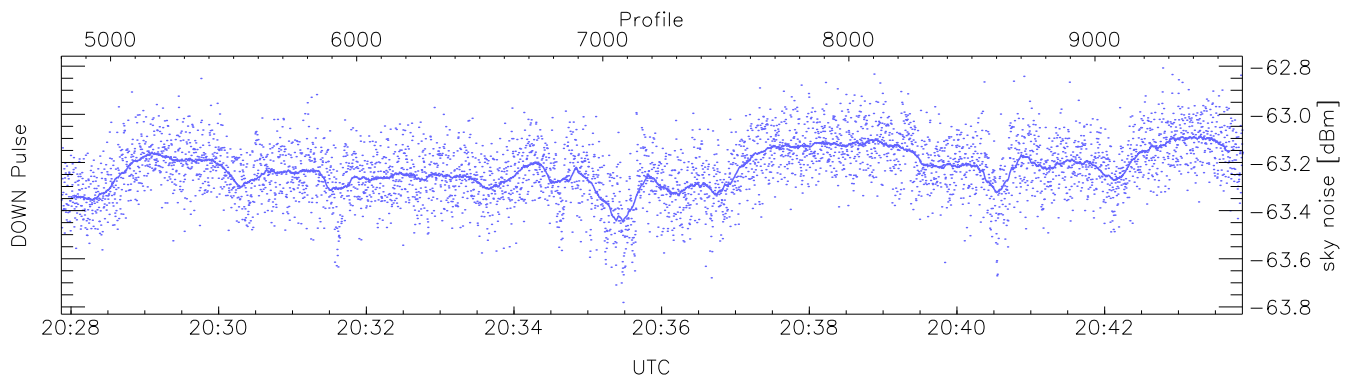
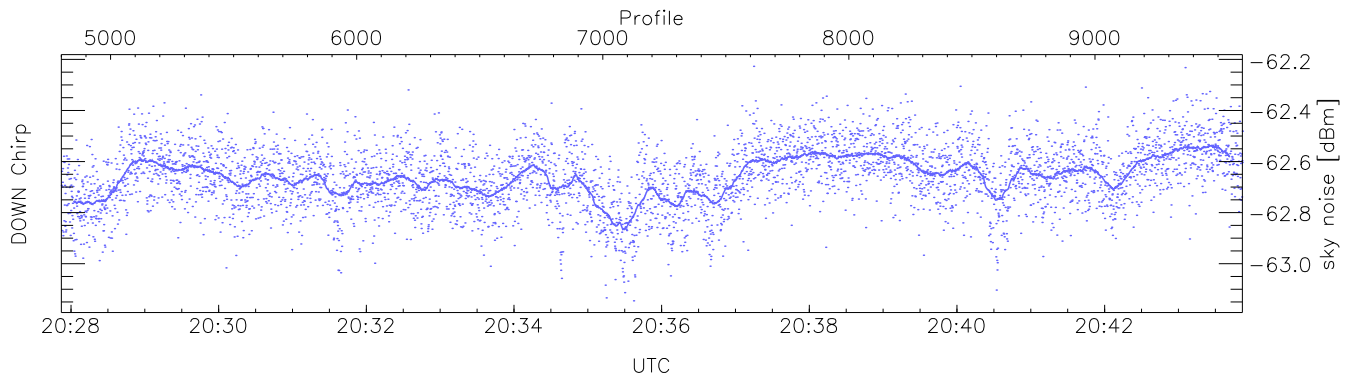
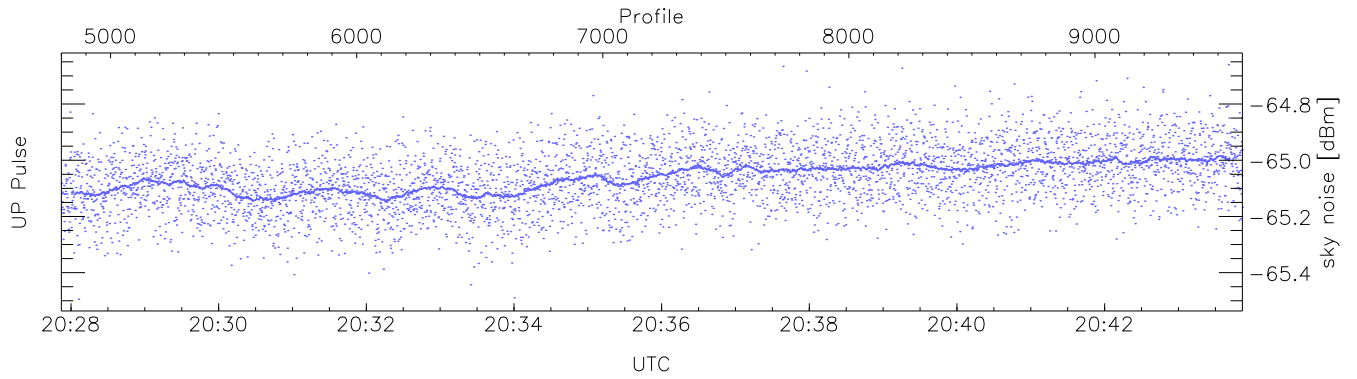
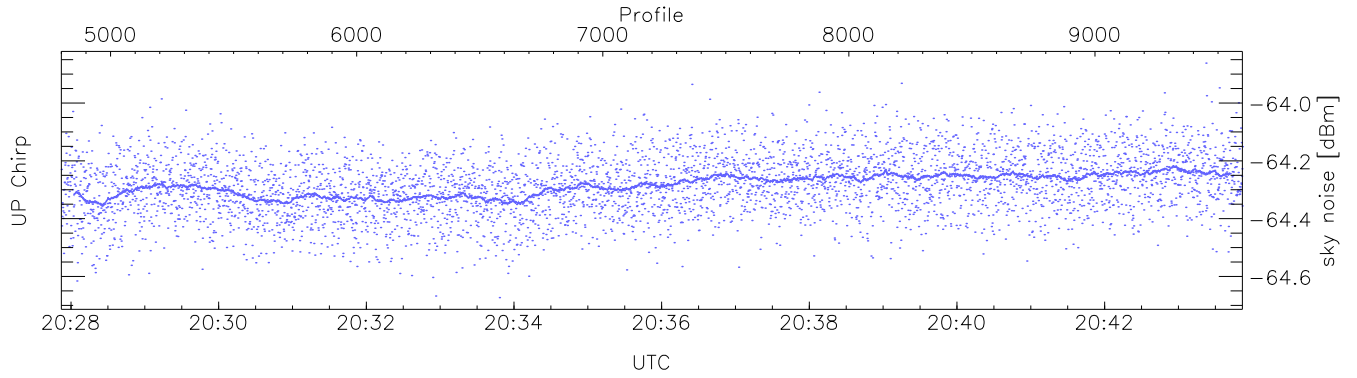


KPR SPP Receiver Gain and Noise Figure



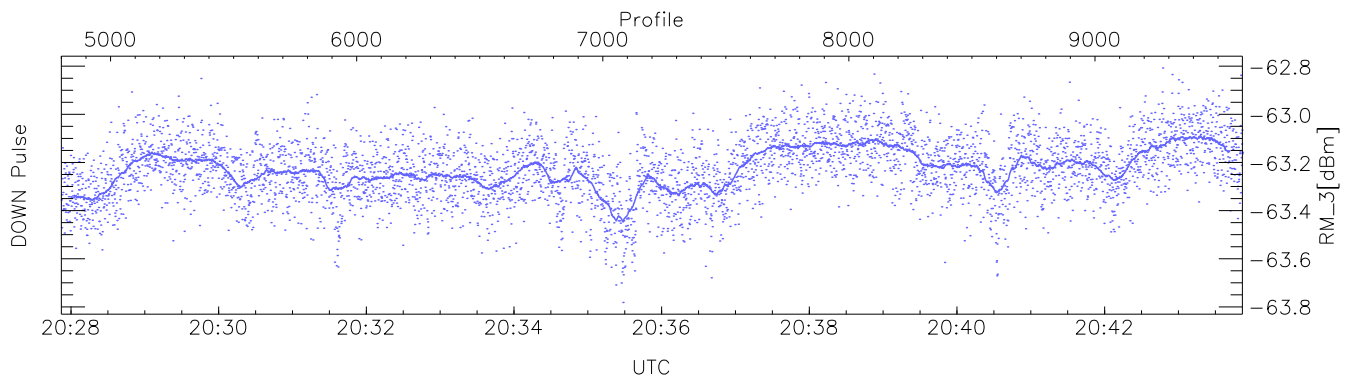
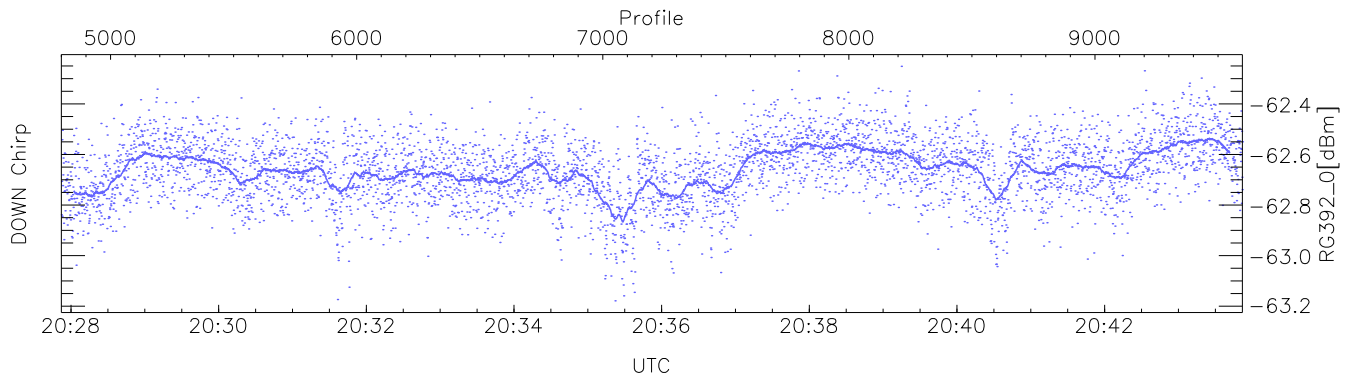
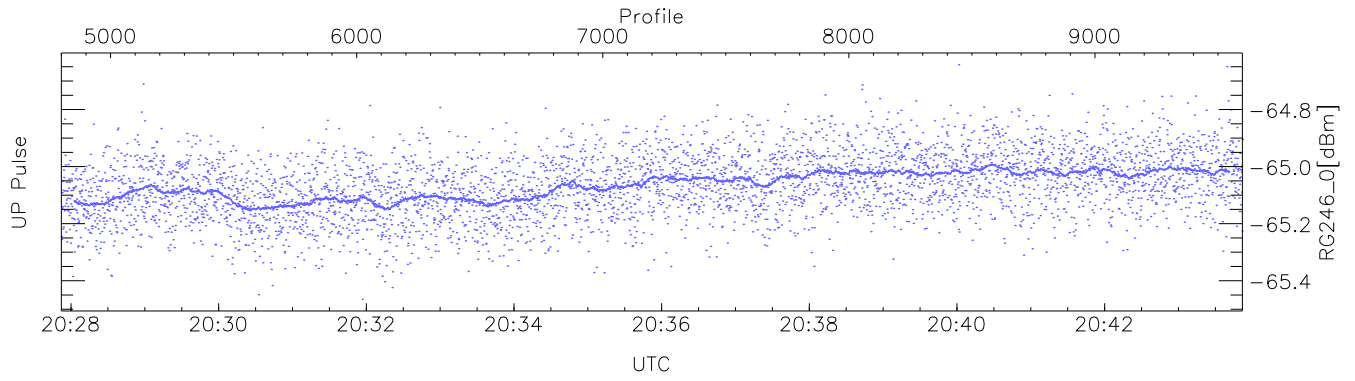
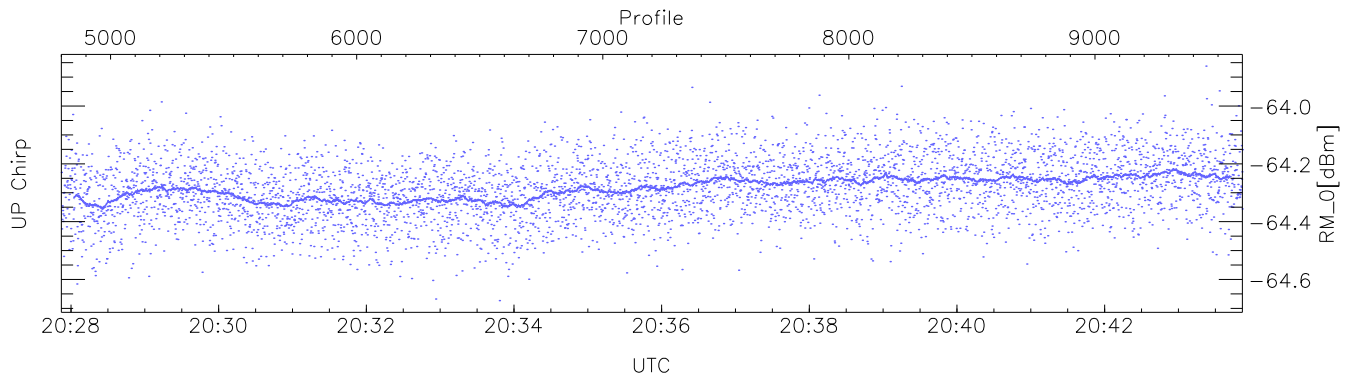
KPR SPP Receiver Noise Source Warm and Hot Measurements

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-62.91	-62.14	-62.53	-62.53	-78.65
Chirp(HL [dBm])	-58.50	-57.92	-58.22	-58.22	-75.33
Pulse(WL [dBm])	-63.40	-62.66	-63.01	-63.01	-79.09
Pulse(HL [dBm])	-60.19	-59.62	-59.92	-59.92	-76.96



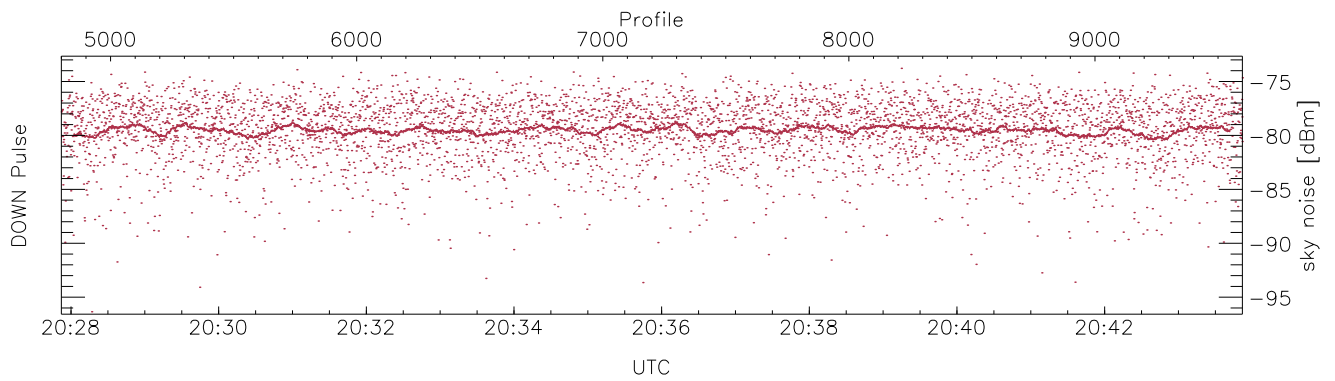
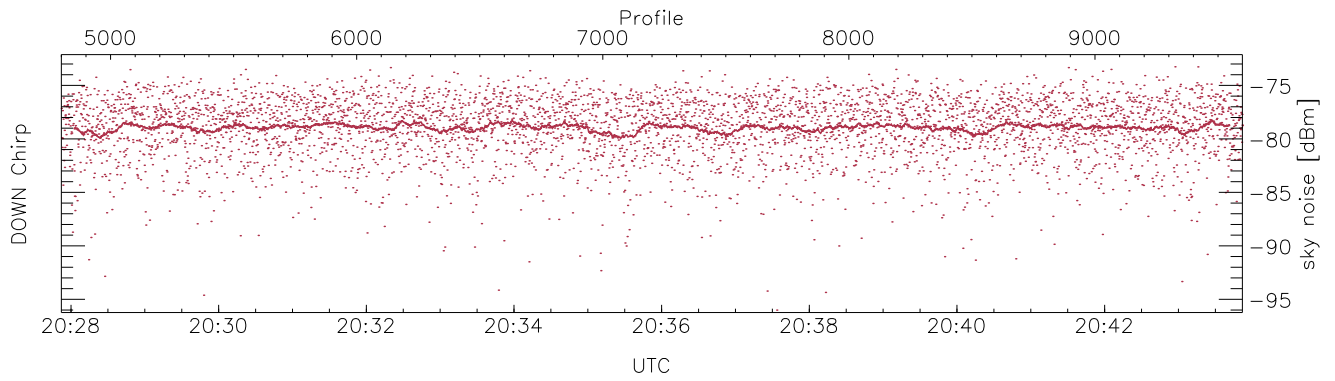
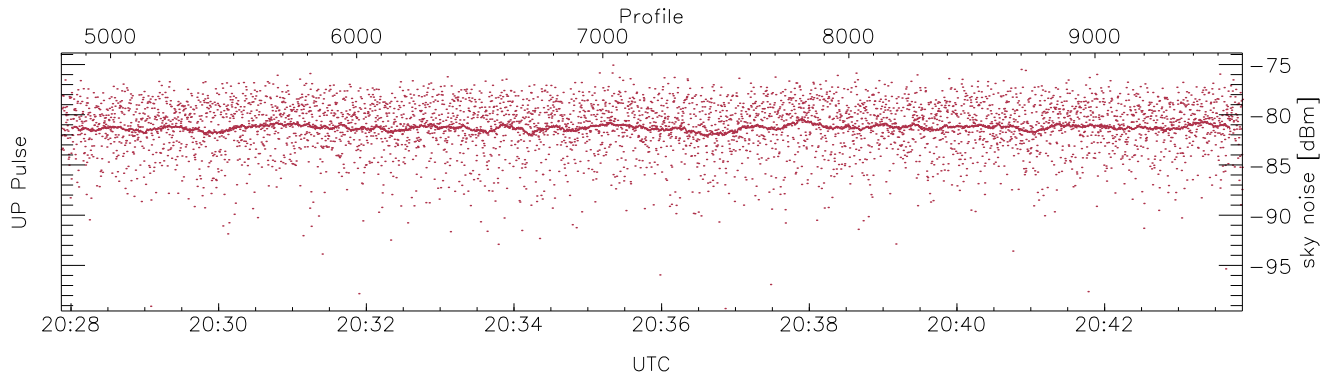
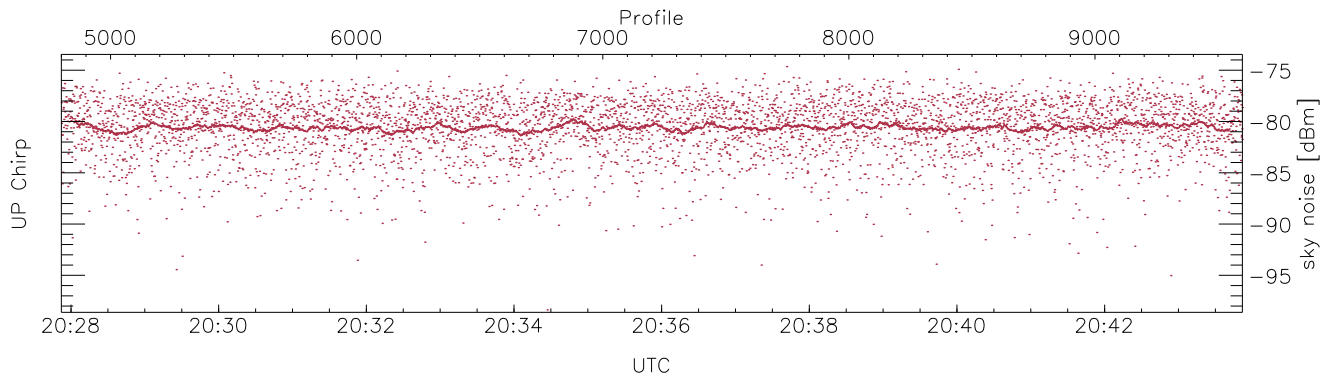
KPR SPP Last range gate power measurements: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-64.67	-63.86	-64.28	-64.28	-80.52
UP Pulse(dBm)	-65.49	-64.66	-65.06	-65.06	-81.13
DOWN Chirp(dBm)	-63.15	-62.23	-62.66	-62.65	-78.19
DOWN Pulse(dBm)	-63.78	-62.81	-63.23	-63.22	-78.50



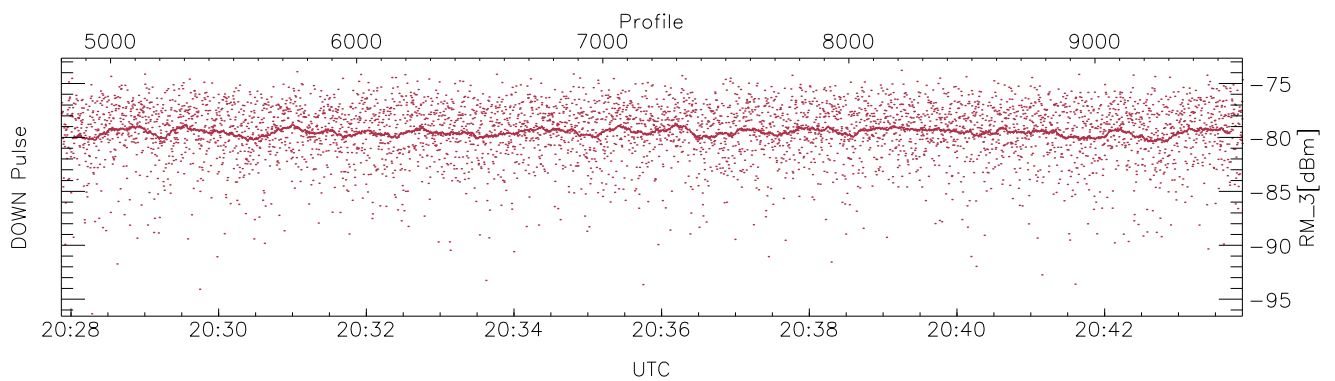
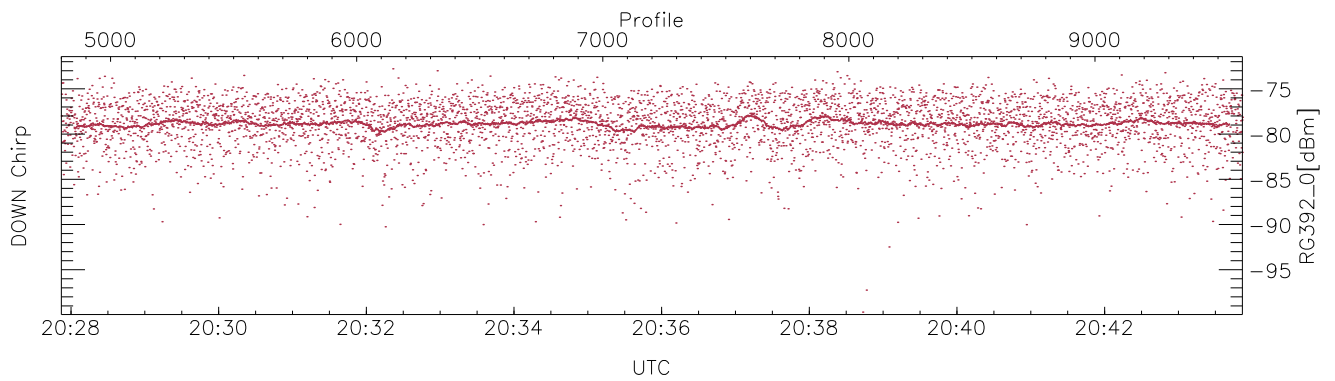
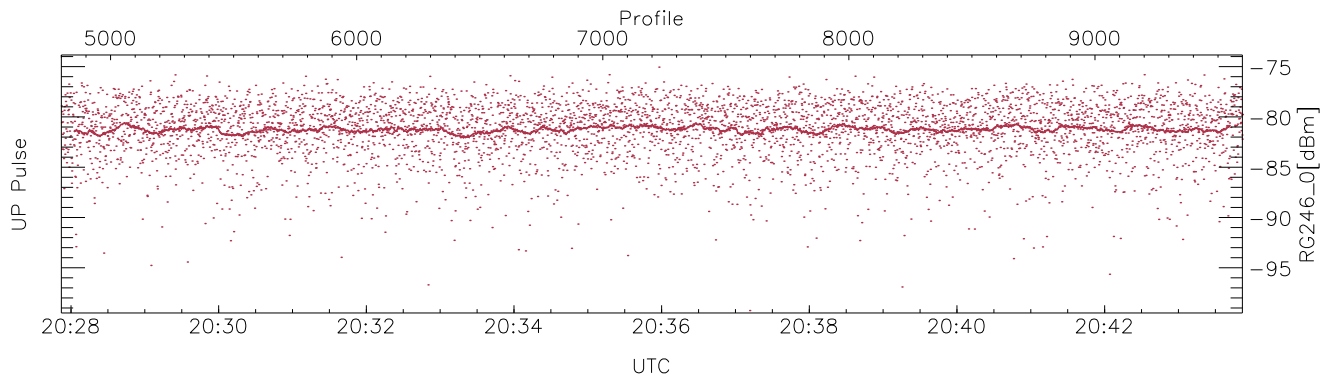
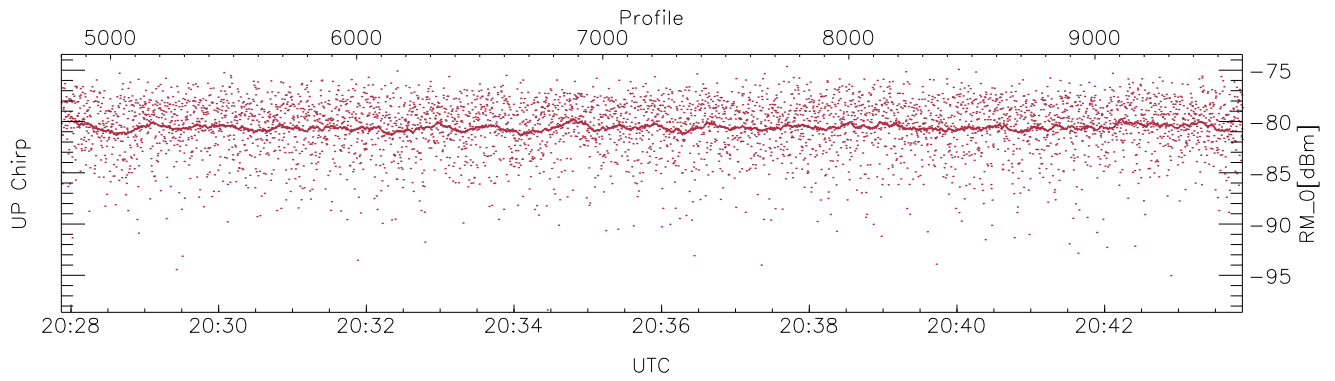
KPR SPP "Best" noise power measurements (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RM_0	-64.67	-63.86	-64.28	-64.28	-80.52
UP_P_RG246_0	-65.46	-64.64	-65.06	-65.07	-81.11
DOWN_C_RG392_0	-63.18	-62.25	-62.66	-62.65	-78.11
DOWN_P_RM_3	-63.78	-62.81	-63.23	-63.22	-78.51



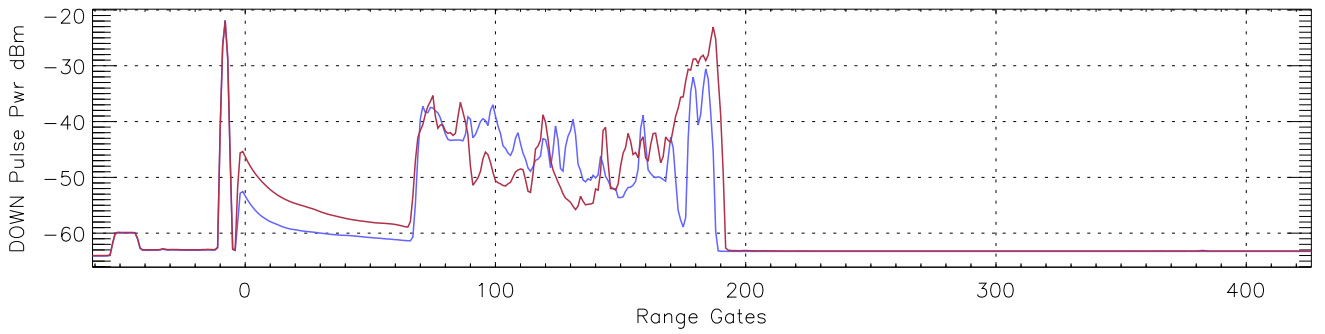
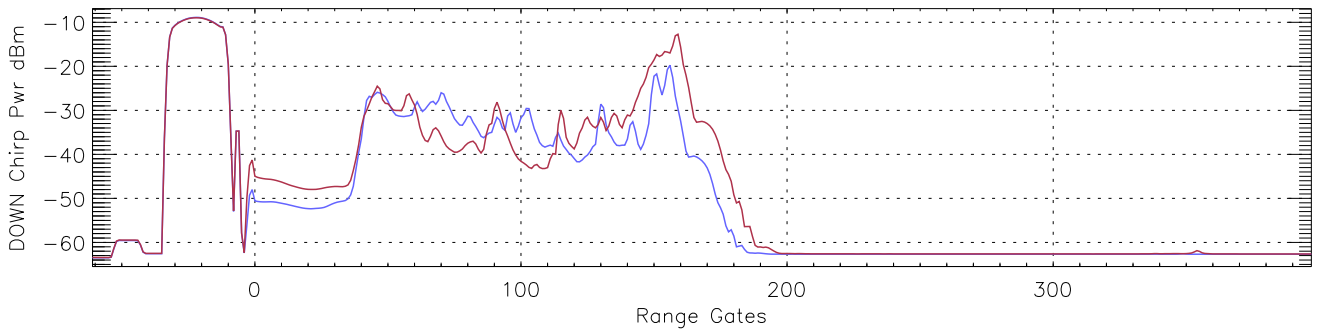
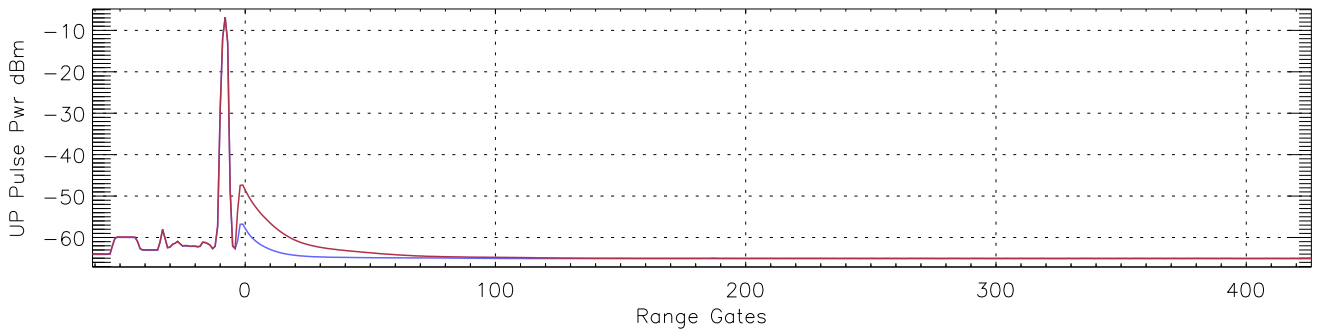
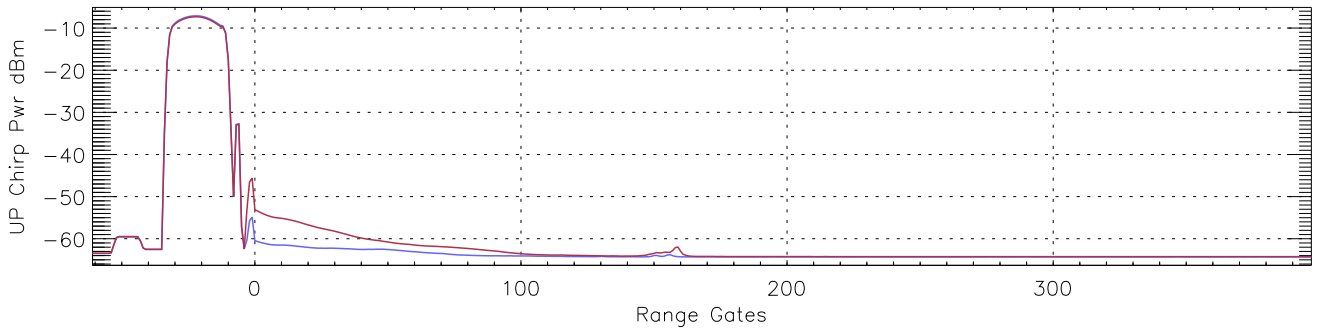
KPR SPP Last range gate PPMAG: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-98.37	-74.65	-79.87	-80.10	-82.71
UP Pulse(dBm)	-99.29	-75.06	-80.57	-80.85	-83.39
DOWN Chirp(dBm)	-96.01	-73.26	-78.21	-78.50	-80.98
DOWN Pulse(dBm)	-96.35	-73.78	-78.81	-79.09	-81.61

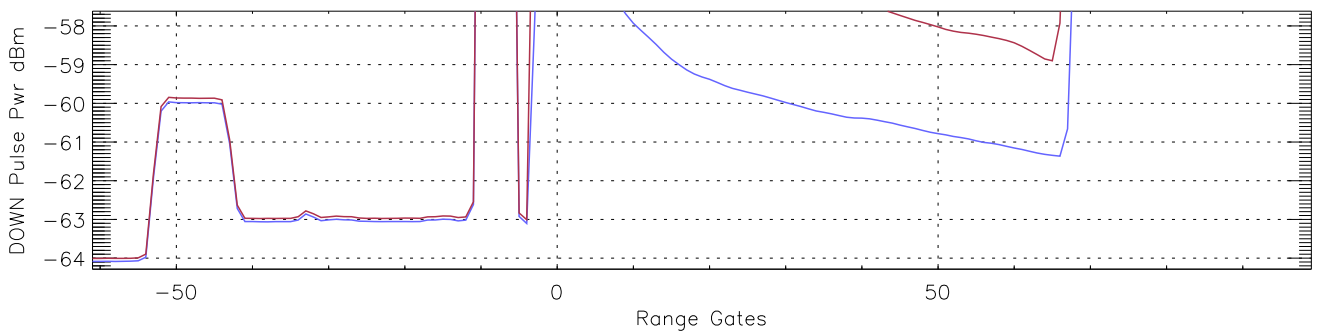
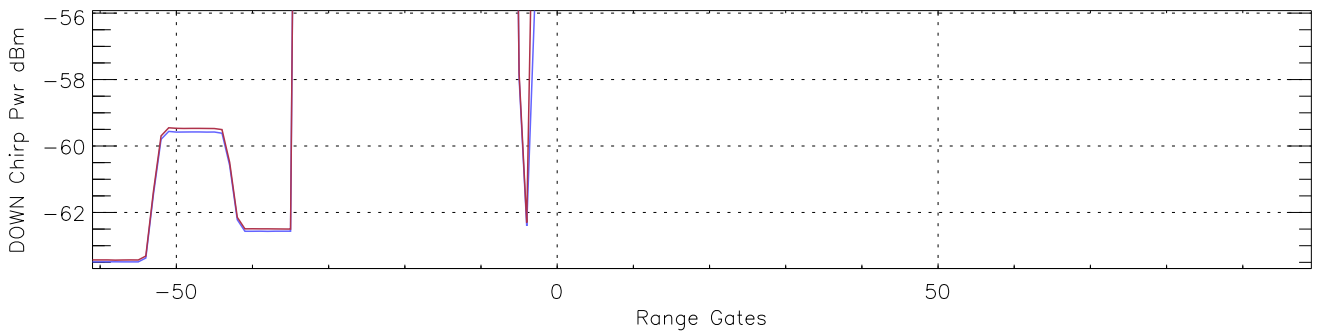
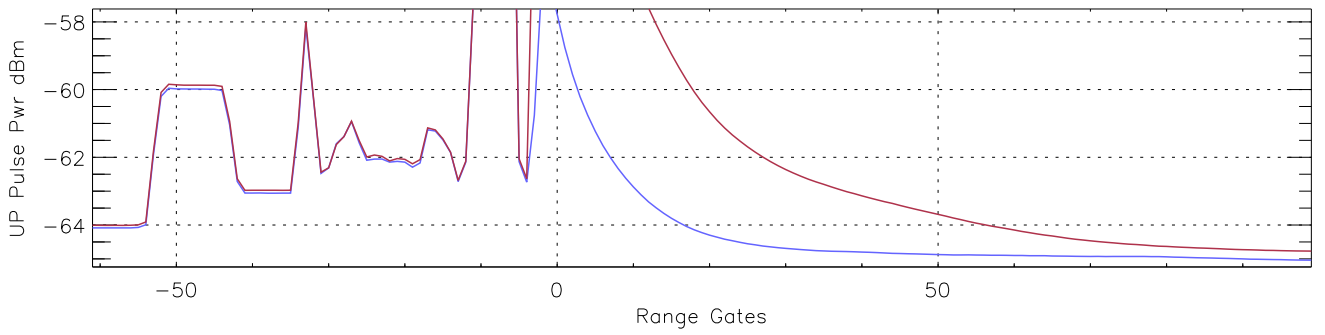
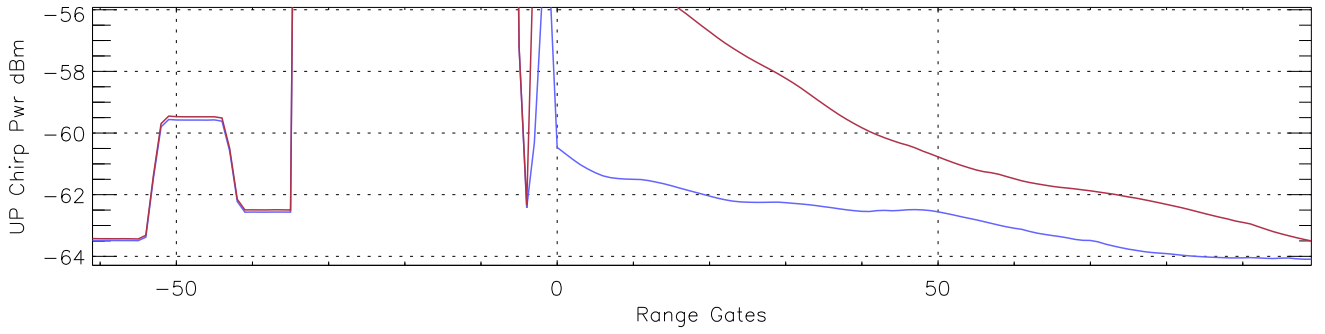


KPR SPP "Best" PPMAG noise (dBm):

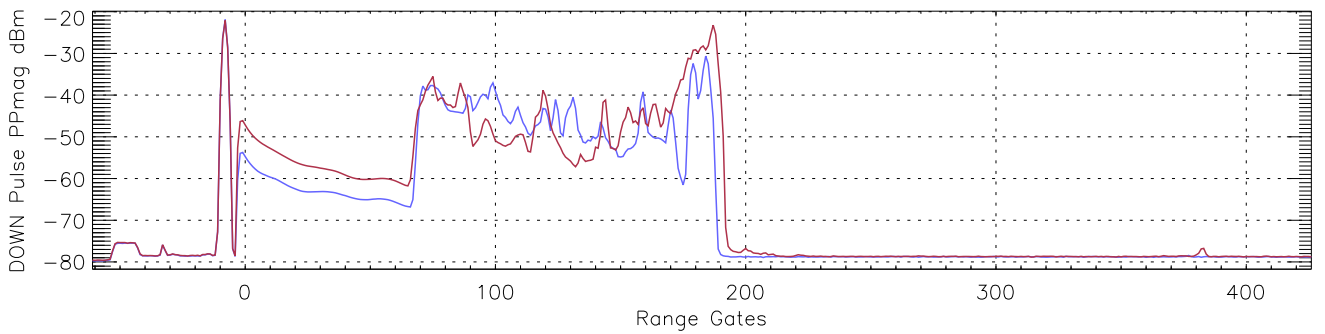
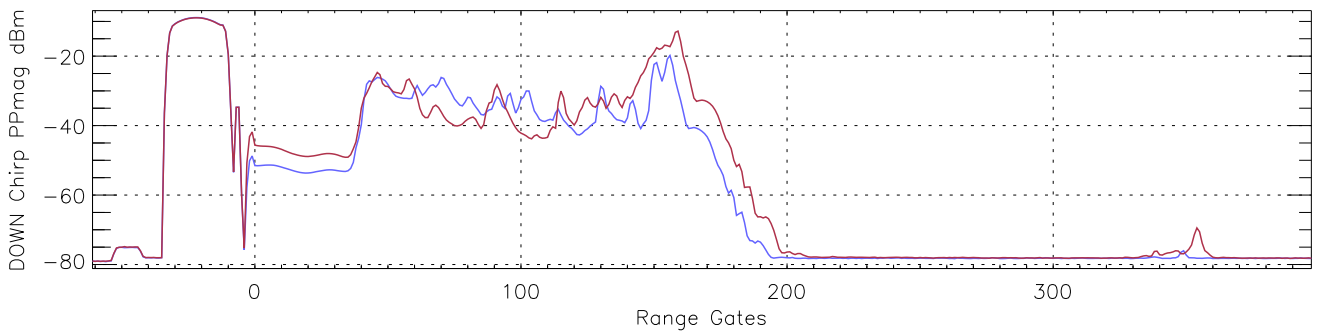
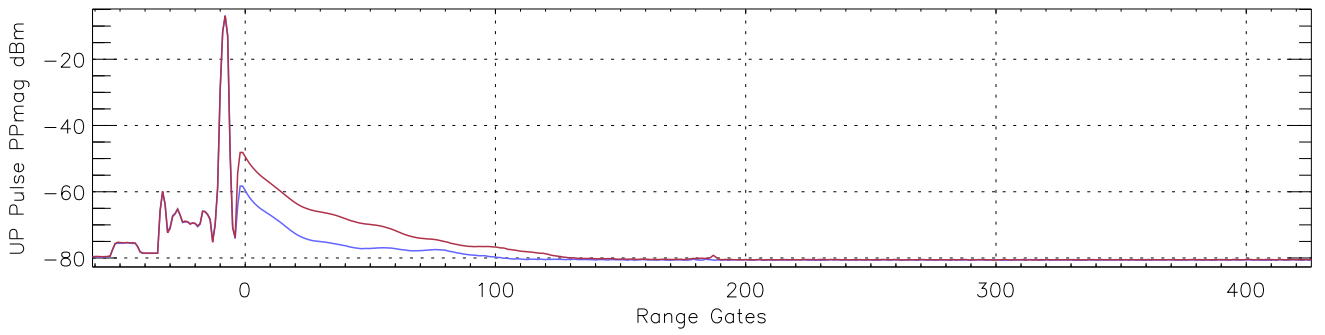
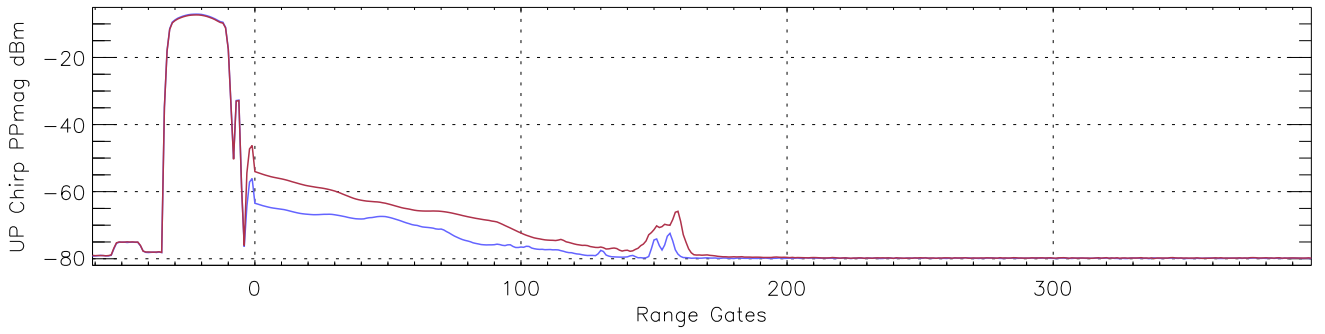
	Min	Max	Mean	Median	StDev
UP_C_RM_0	-98.37	-74.65	-79.87	-80.10	-82.71
UP_P_RG246_0	-99.25	-75.05	-80.52	-80.81	-83.33
DOWN_C_RG392_0	-99.69	-72.78	-78.18	-78.49	-80.99
DOWN_P_RM_3	-96.35	-73.78	-78.81	-79.09	-81.61



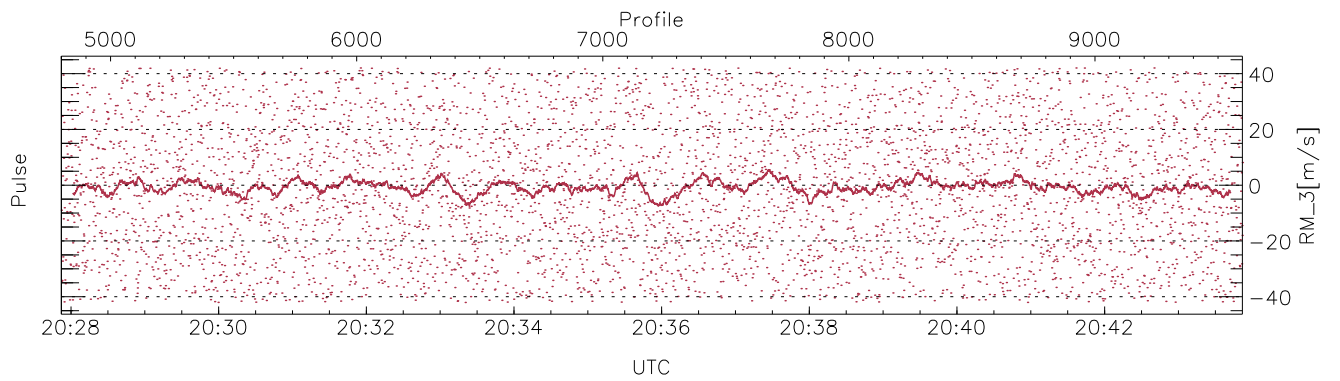
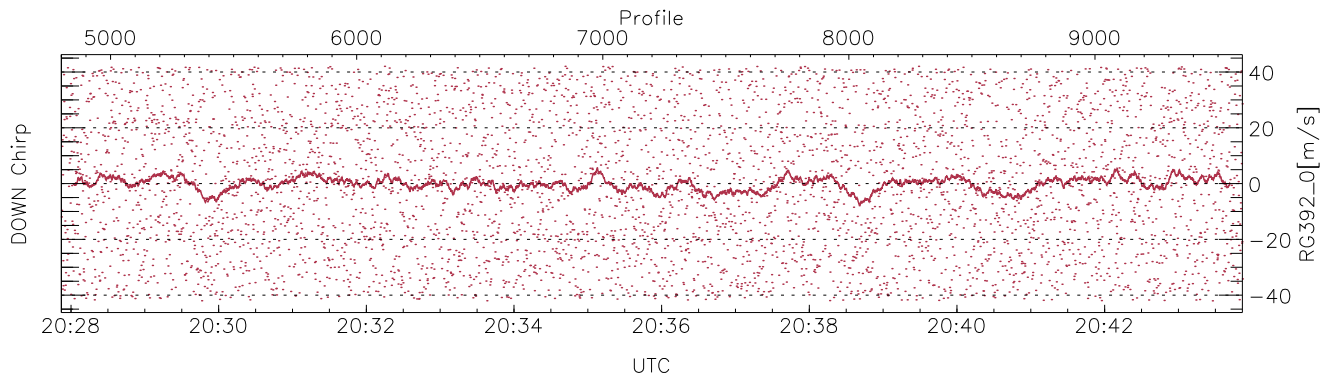
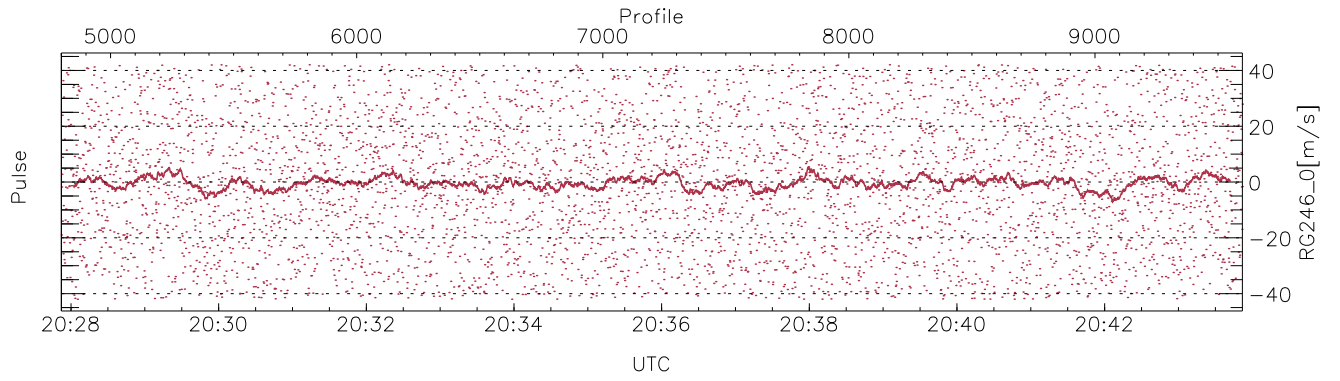
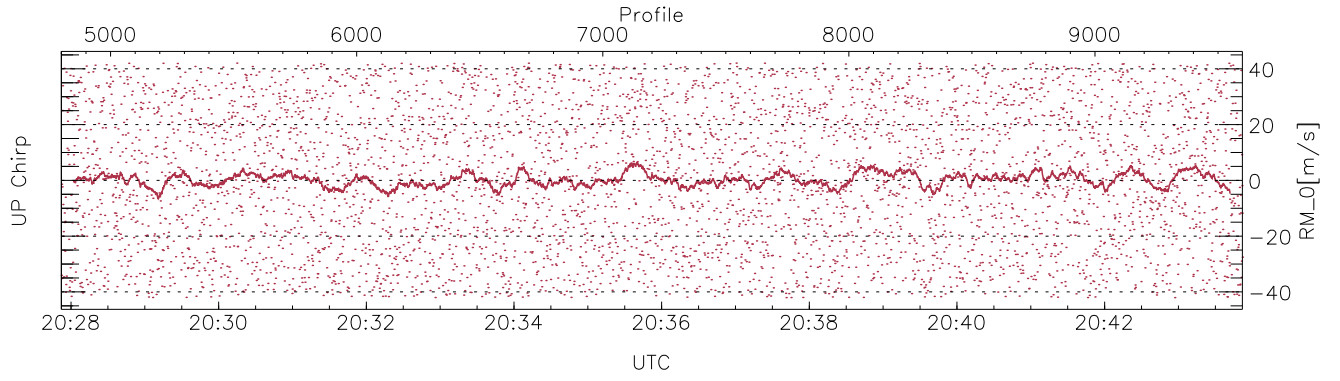
KPR SPP Averaged Received power for all recorded gates
blue: 202752-203552, 2401 profiles averaged
red: 203552-204352, 2400 profiles averaged



KPR SPP Averaged Power for neg. gates & up to 100 gates
blue: 202752-203552, 2401 profiles averaged
red: 203552-204352, 2400 profiles averaged

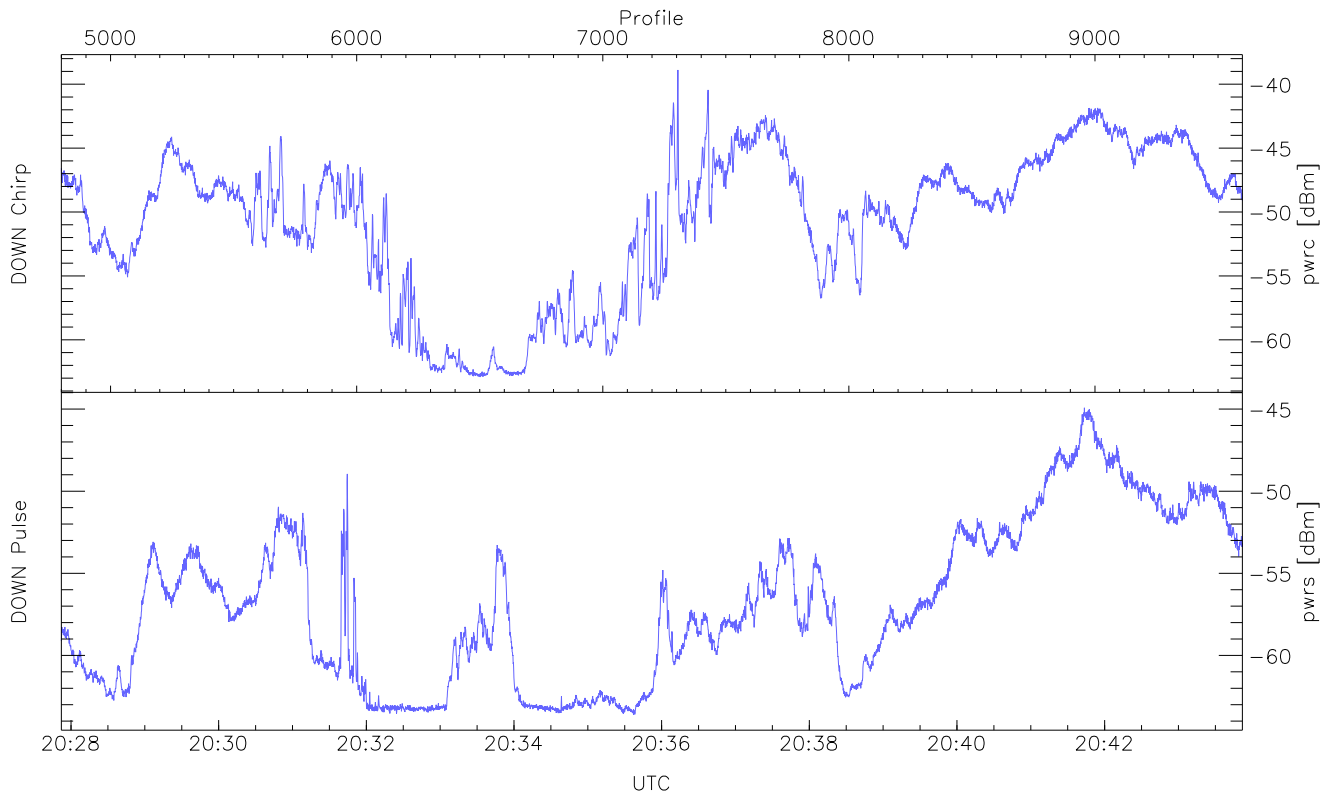
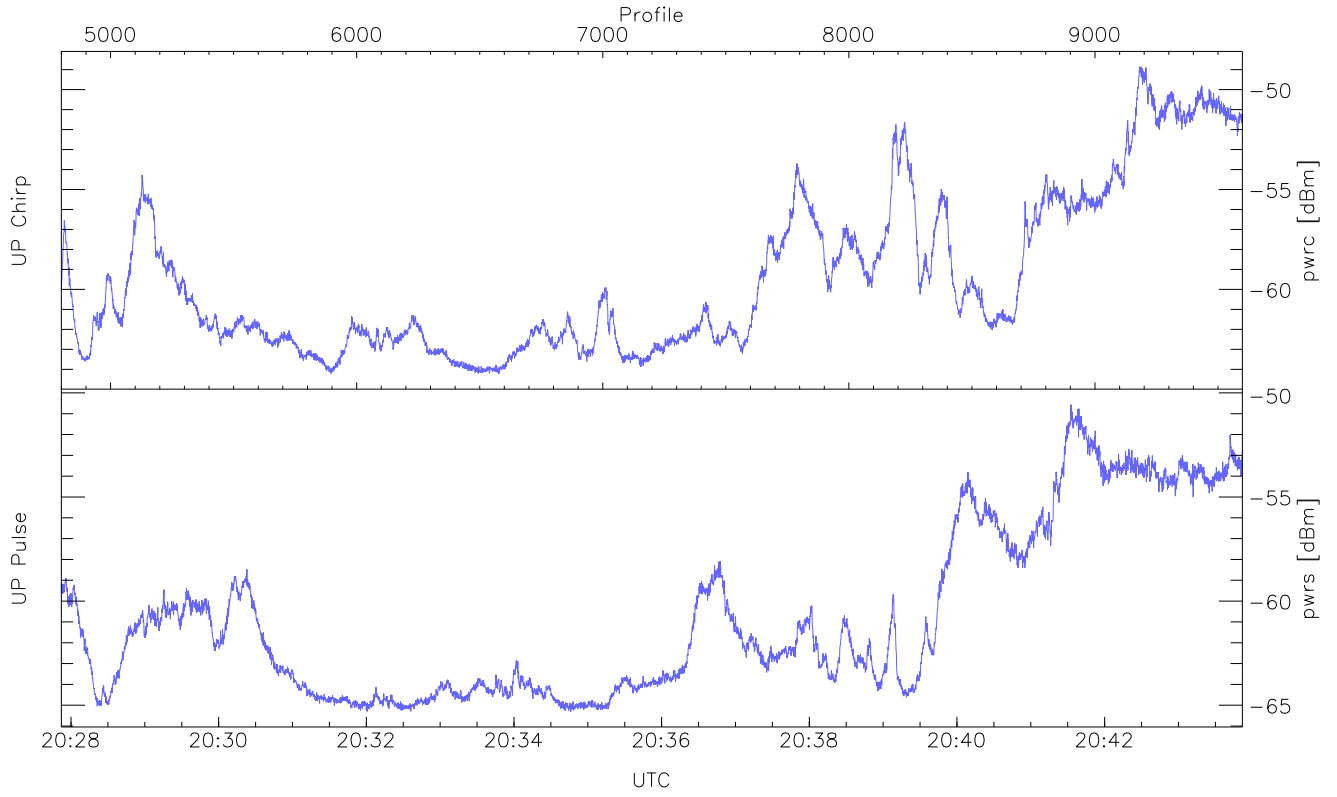


KPR SPP Averaged PP magnitude for all recorded gates
blue: 202752-203552, 2401 profiles averaged
red: 203552-204352, 2400 profiles averaged



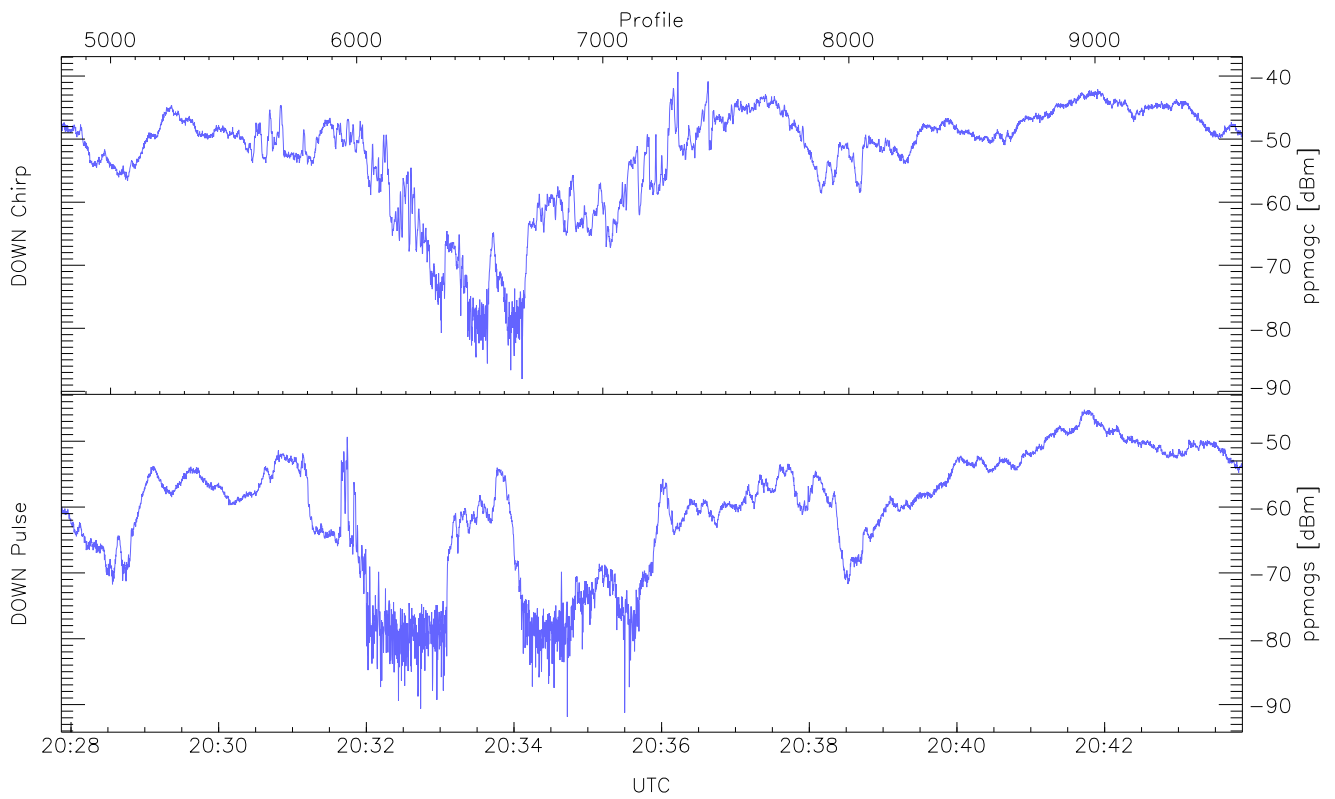
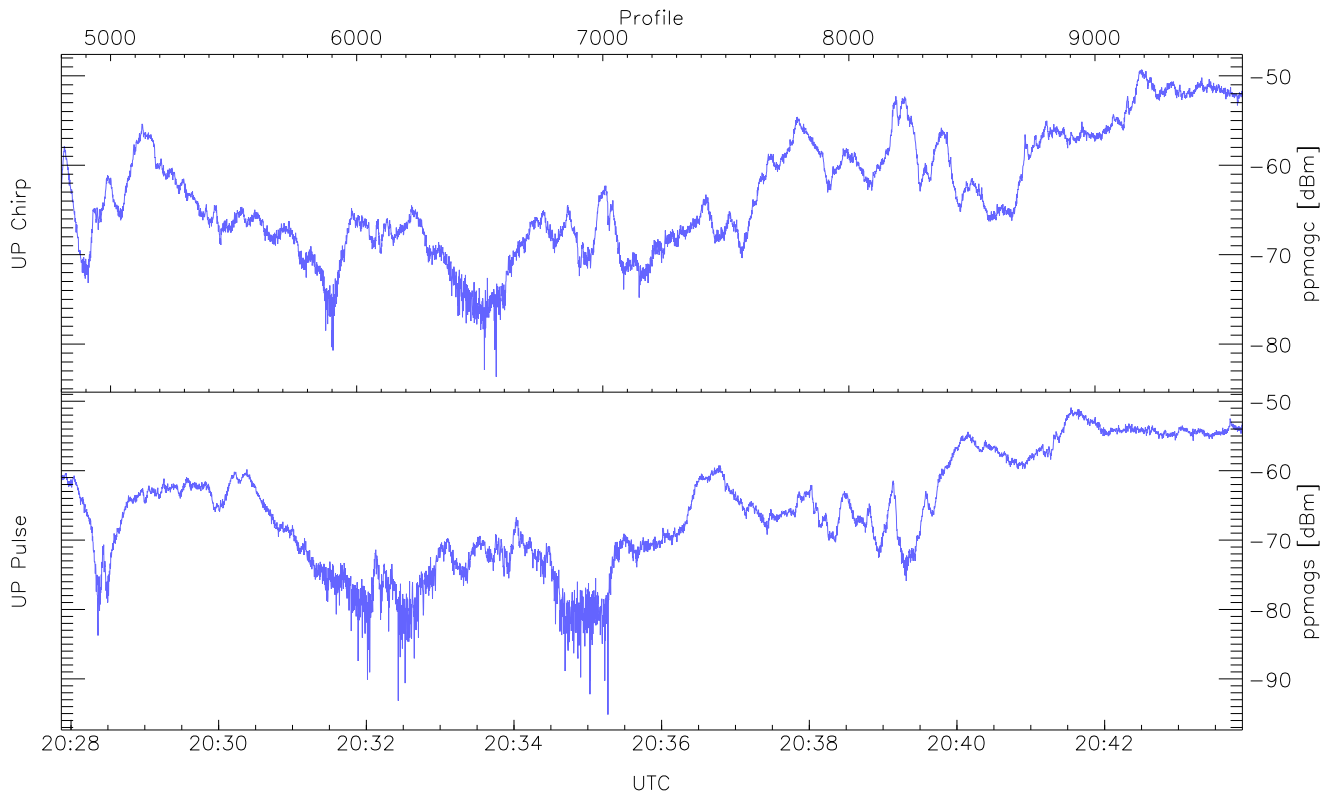
KPR SPP "Best" PPVEL noise (m/s):

	Min	Max	Mean	Median	StDev
UP_C_RM_0	-42.06	42.04	0.09	-0.10	24.41
UP_P_RG246_0	-42.01	42.05	-0.42	-0.49	22.83
DOWN_C_RG392_0	-42.04	42.04	-0.23	-0.88	24.36
DOWN_P_RM_3	-42.05	42.05	-0.80	-1.10	23.11



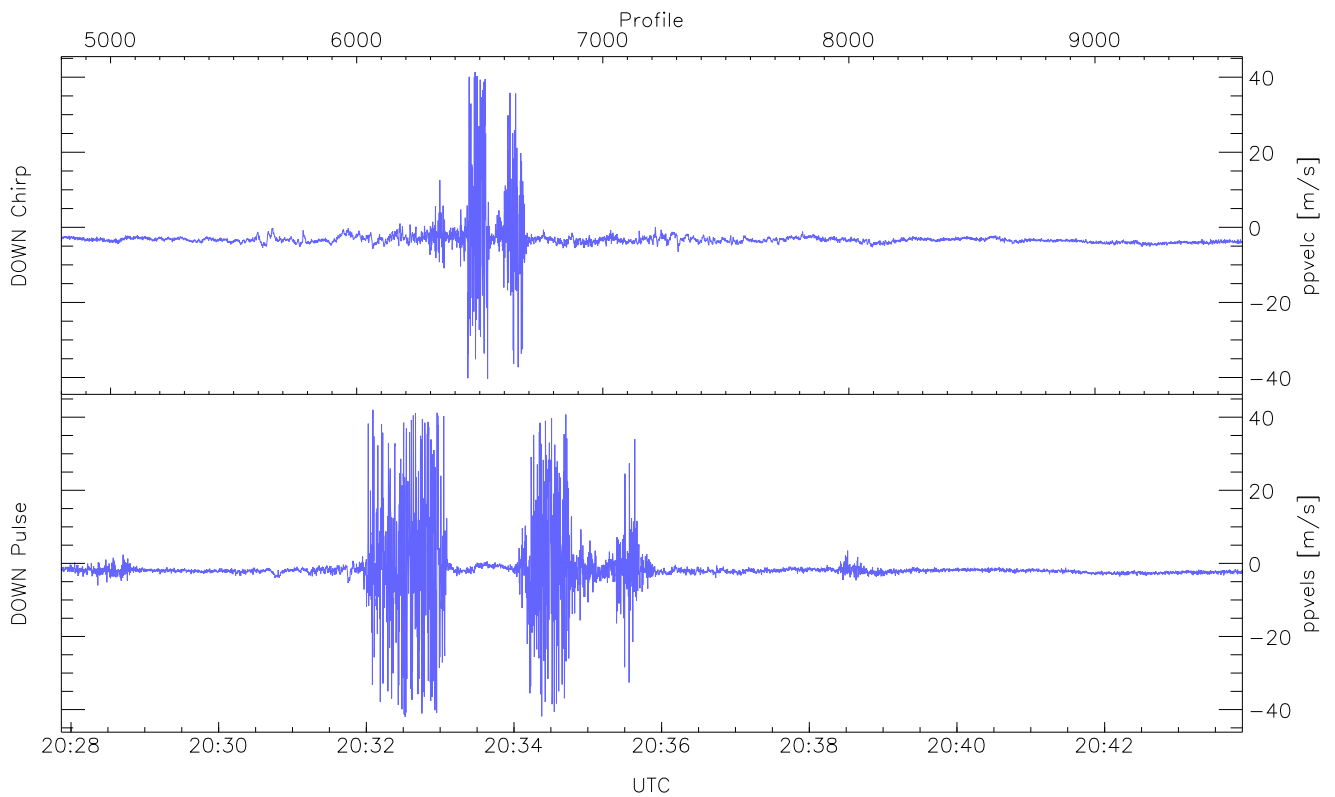
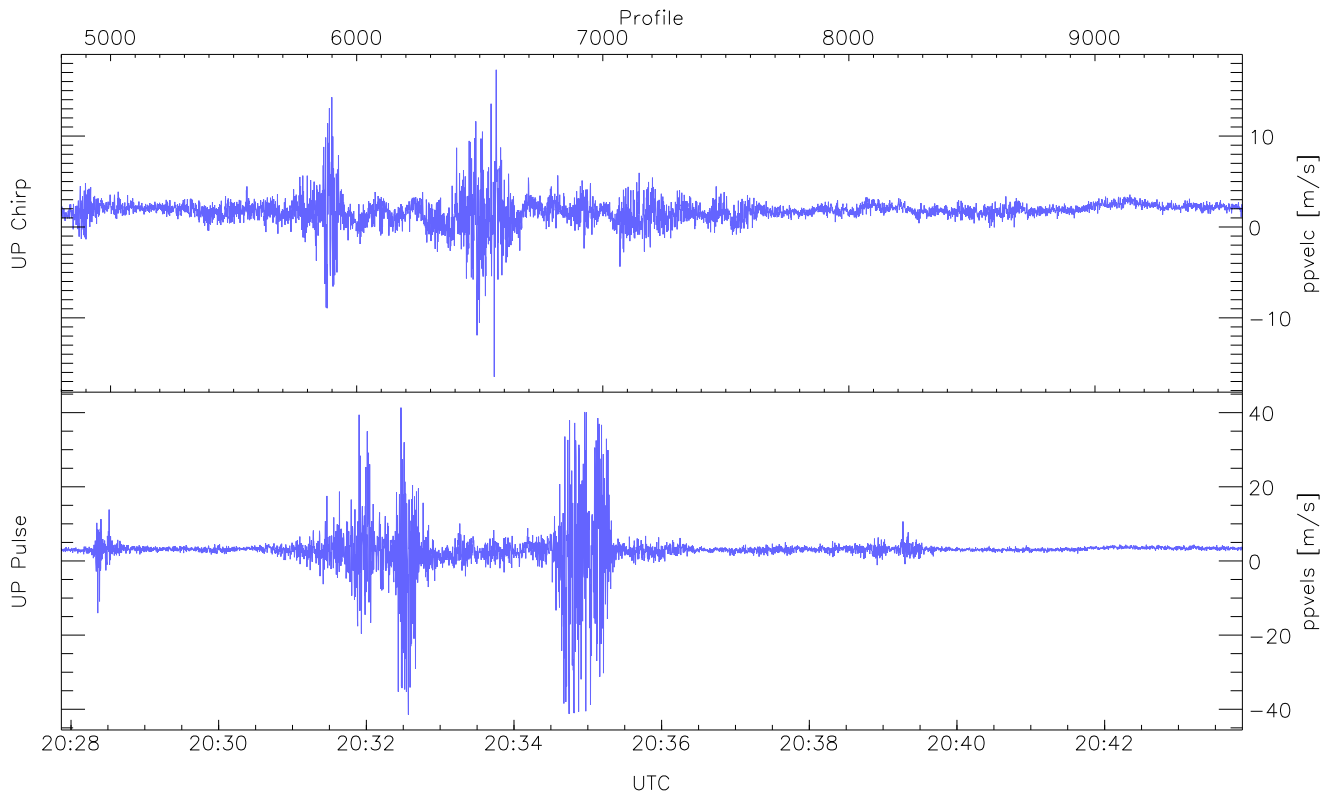
KPR SPP Received Power for Chirp Range gate 10 (686.2 m)
 KPR SPP Received Power for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-64.23	-48.86	-57.26
UP Pulse(dBm)	-65.31	-50.56	-58.63
DOWN Chirp(dBm)	-62.91	-38.89	-48.06
DOWN Pulse(dBm)	-63.62	-44.92	-54.18



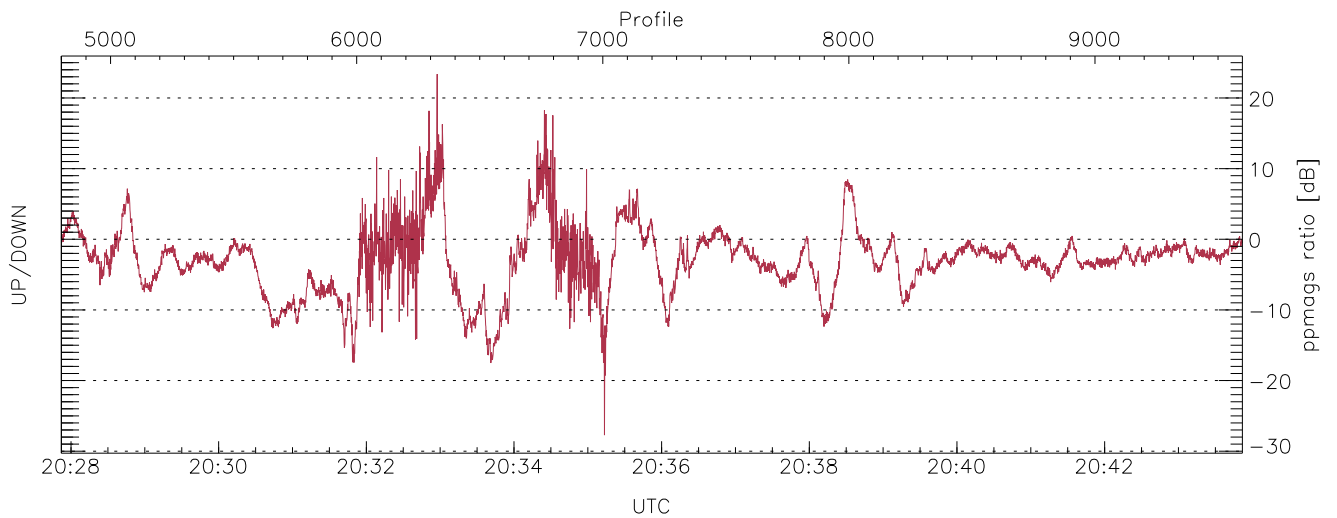
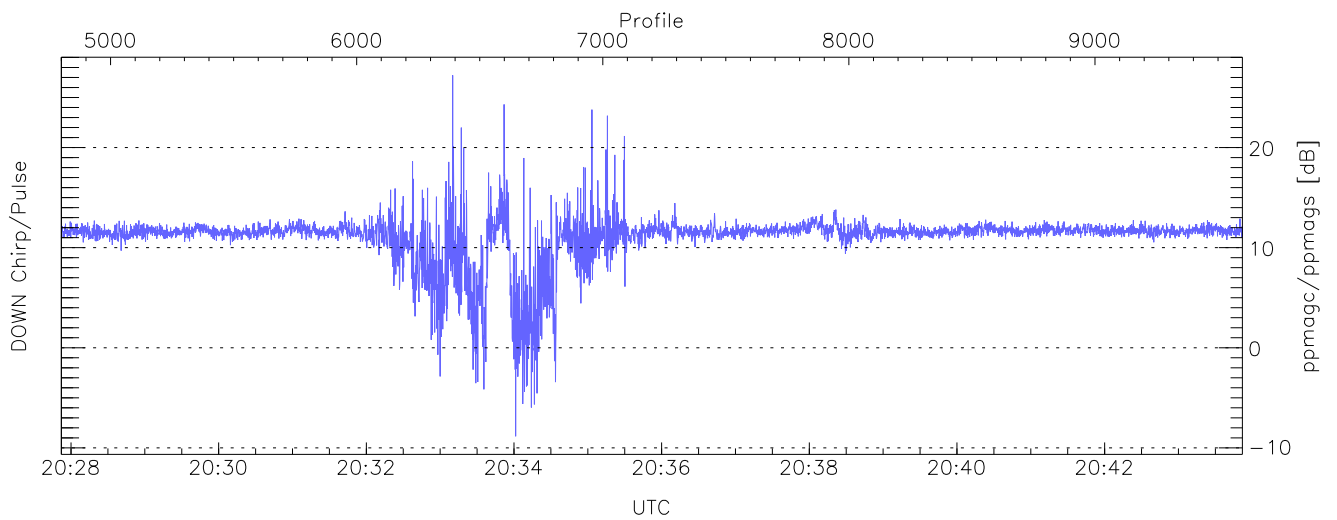
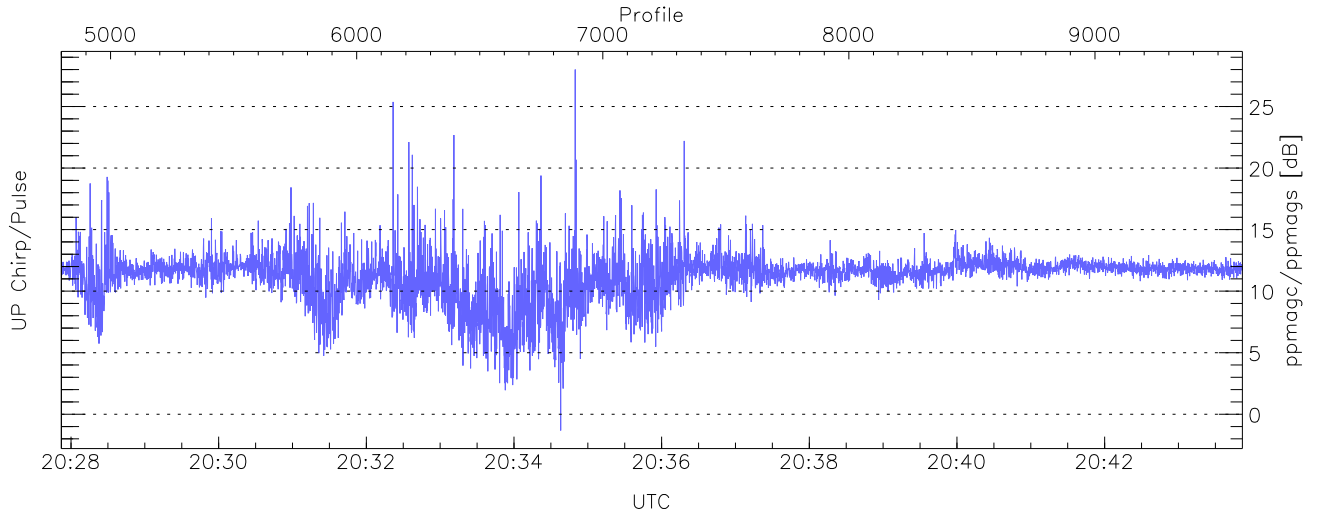
KPR SPP PPMAG for Chirp Range gate 10 (686.2 m)
 KPR SPP PPMAG for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-83.66	-49.32	-58.68
UP Pulse(dBm)	-95.15	-50.90	-59.97
DOWN Chirp(dBm)	-88.04	-39.35	-48.69
DOWN Pulse(dBm)	-91.85	-45.22	-54.98



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)	-16.49	17.30	1.73
UP Pulse(m/s)	-41.44	41.37	2.85
DOWN Chirp(m/s)	-40.41	41.38	-3.23
DOWN Pulse(m/s)	-41.98	42.05	-1.75



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

	Min	Max	Mean
UP Chirp/Pulse(dBm)	-1.32	28.01	11.69
DOWN Chirp/Pulse(dBm)	-8.85	27.22	11.56
UP/DOWN Ratio at Range 135.8 m			
	Min	Max	Mean
UP/DOWN(dB)	-27.72	23.39	0.22