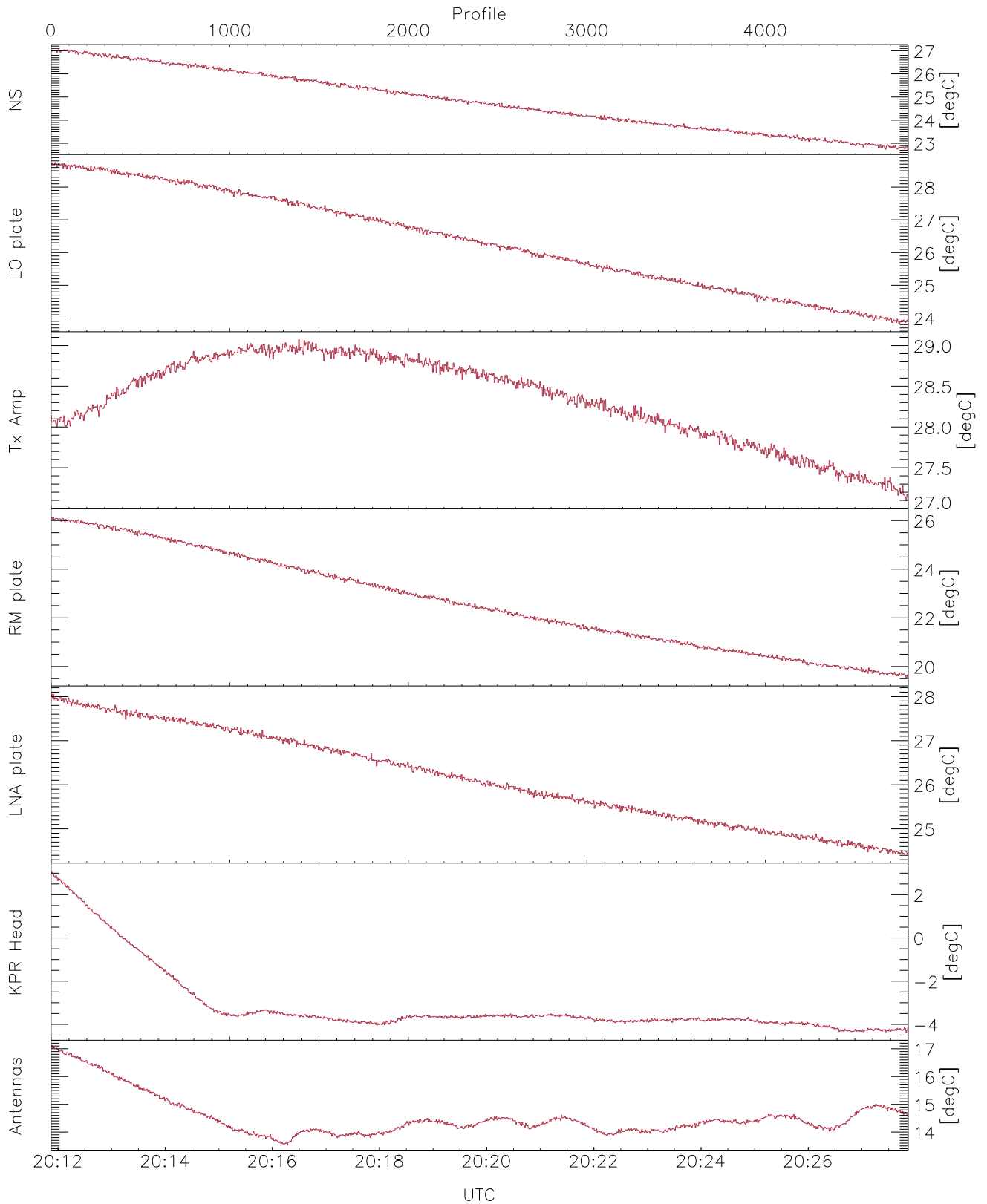


KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF
 UTC: 20:11:52-20:57:21, TimeCor: 0.00s, Dur: 959.80s
 TimeInt(min,max,mn,std): 188.5,211.5,200.0,0.9 ms; PPS: 5.0
 NumRec(r/t): 4800/13644, 0-4799/20:11:52-20:27:52
 AcqTime(req,actual): 200.0,200.0 ms, Data Rate: 187.6 KB/s
 Pulse: 247 ns, Chirp: 2.47 us, 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

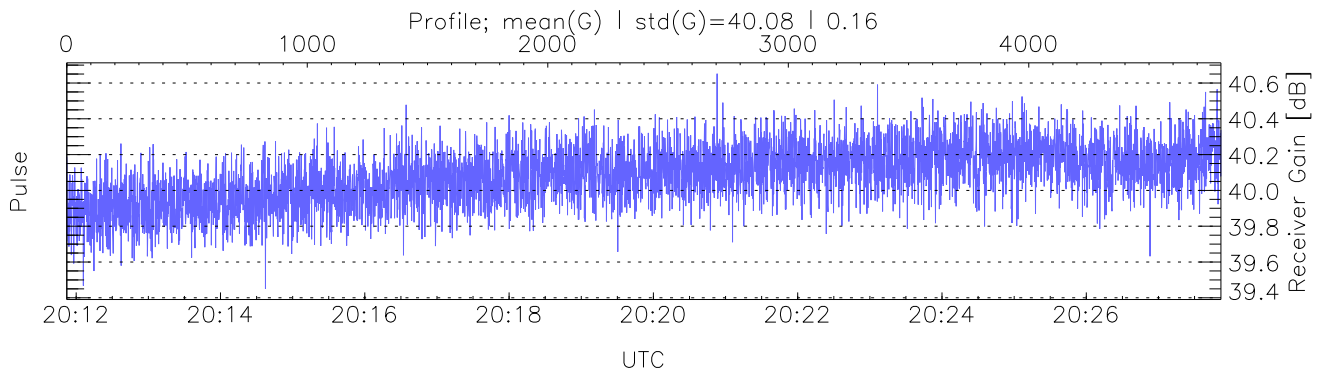
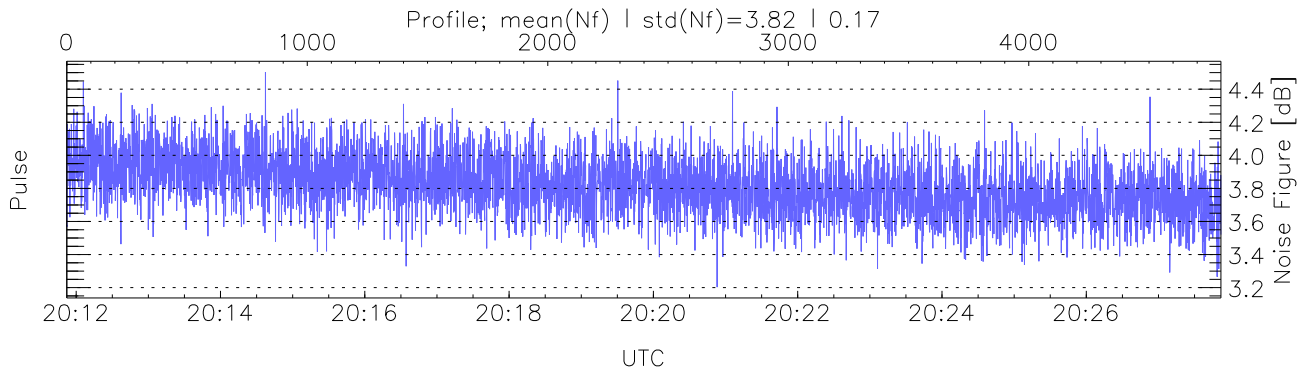
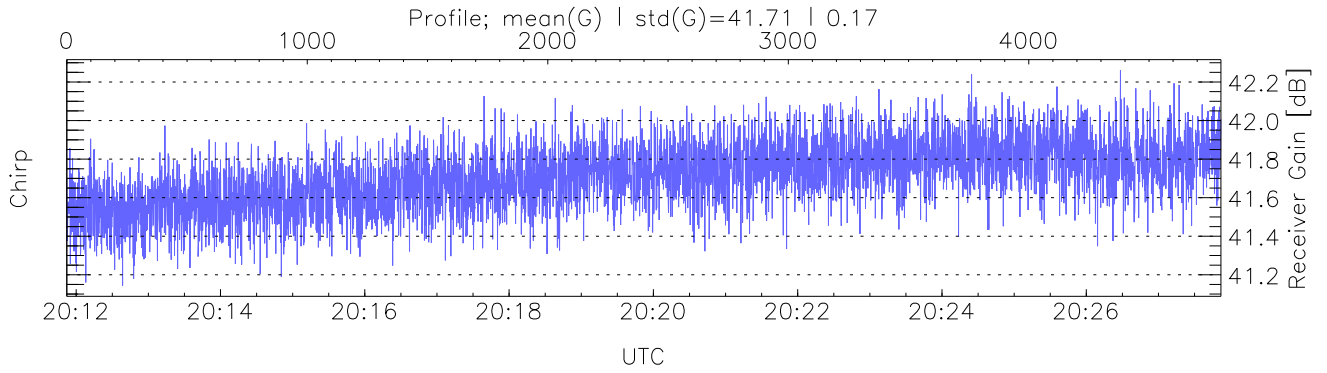
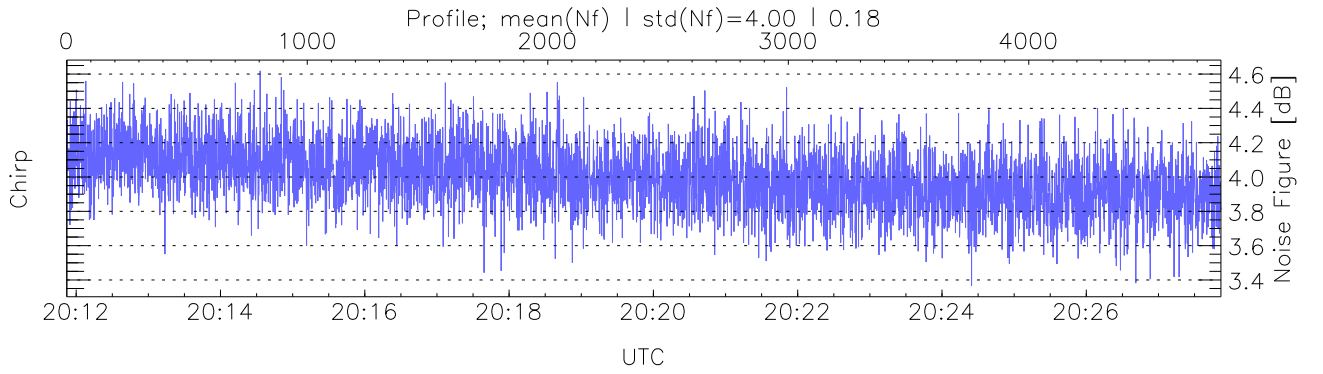


KPR SPP Temperatures, Power Supplies, PLO lock:

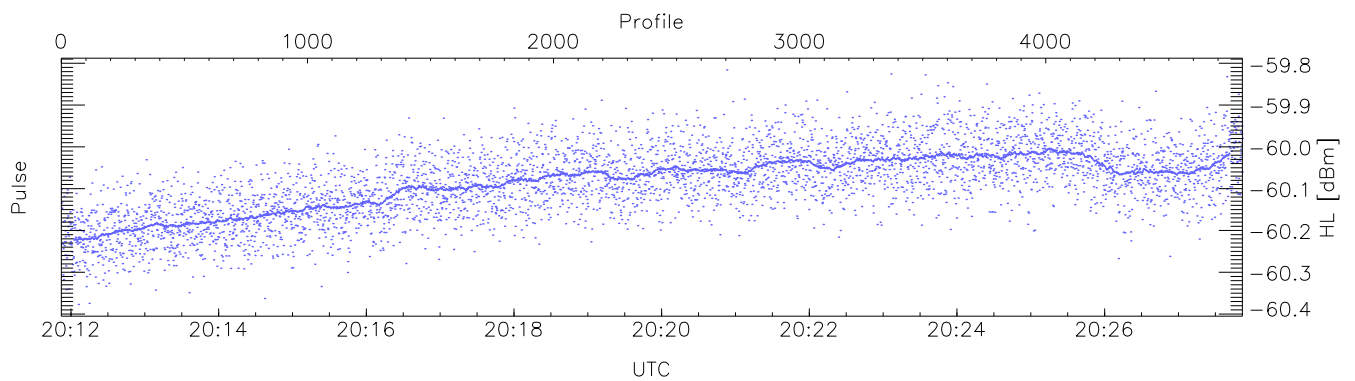
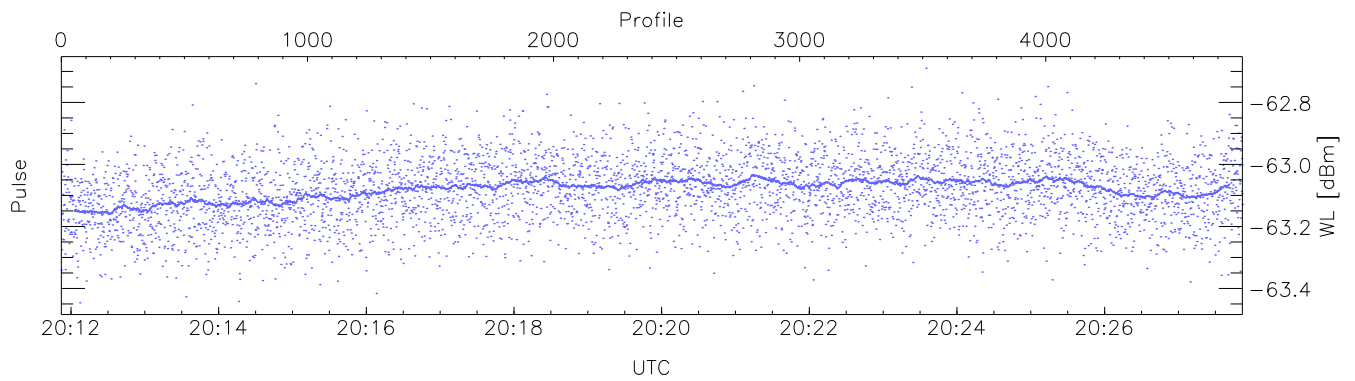
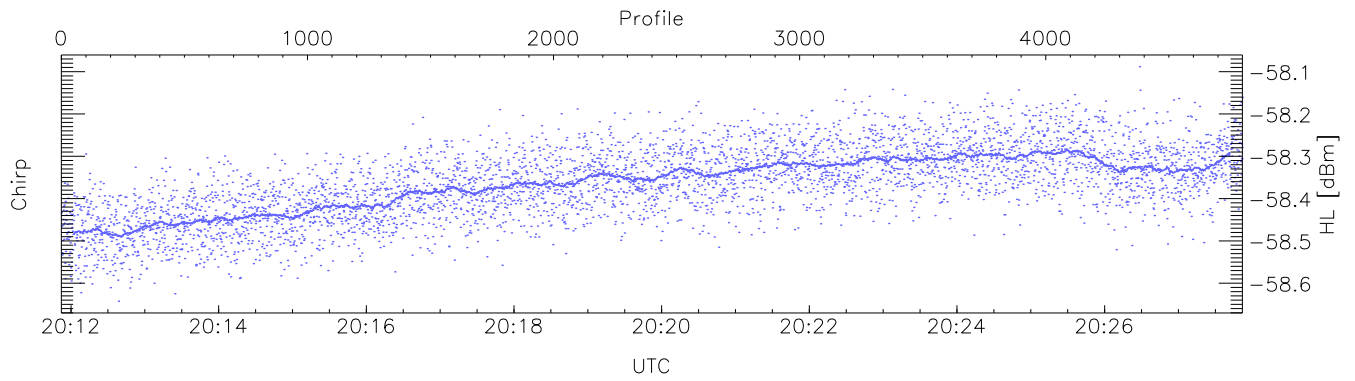
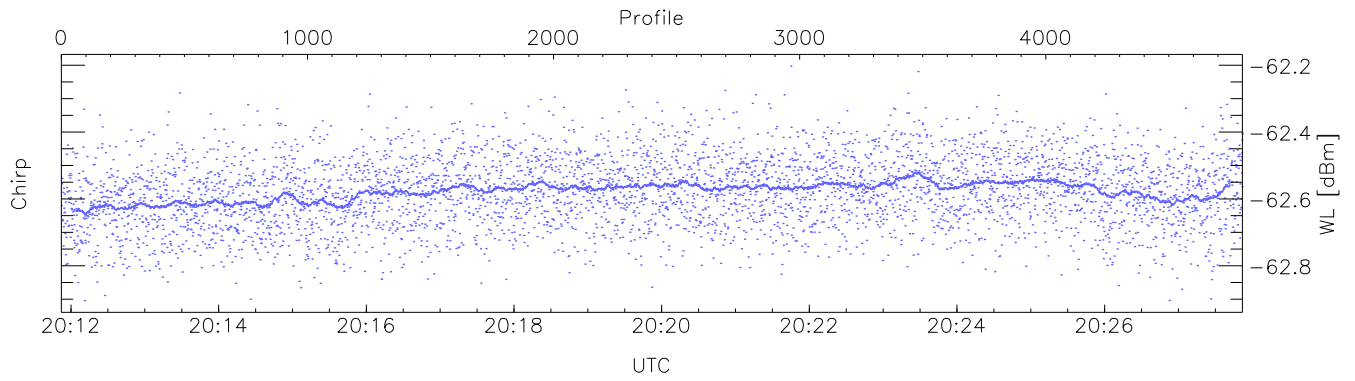
temperature: NS, LO, Tx, RM, LNA, Head, Ant
 mintempC: 22.7, 23.8, 27.1, 19.5, 24.4, -4.4, 13.5
 maxtempC: 27.1, 28.7, 29.1, 26.1, 28.1, 3.1, 17.1
 meantempC: 24.8, 26.3, 28.3, 22.6, 26.1, -3.1, 14.5

PwrSply: 28, 12, 8, 5 VDC
 minVDC: 25.91, 11.68, 7.87, 5.22
 maxVDC: 27.87, 11.73, 7.90, 5.23
 meanVDC: 26.97, 11.70, 7.88, 5.23

PLO(3.84,15.84 GHz) unlocked: None

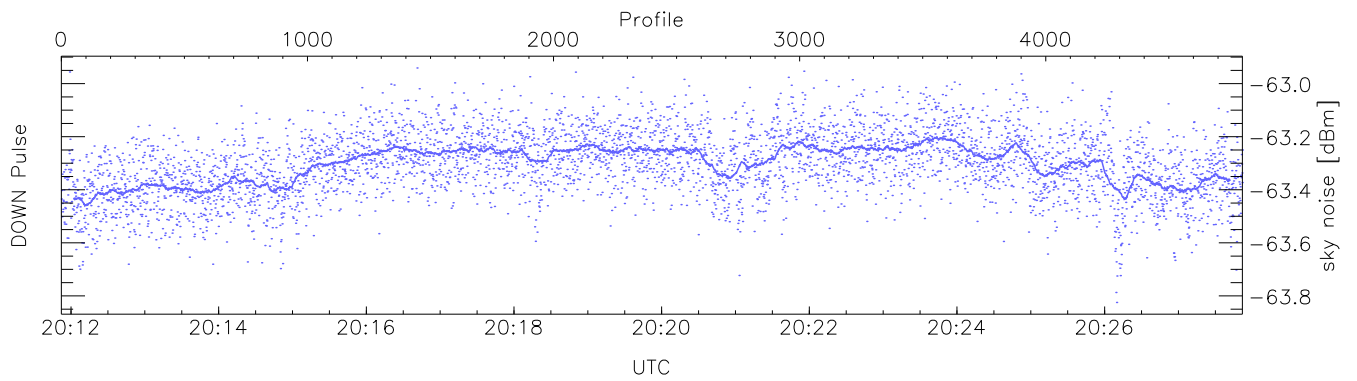
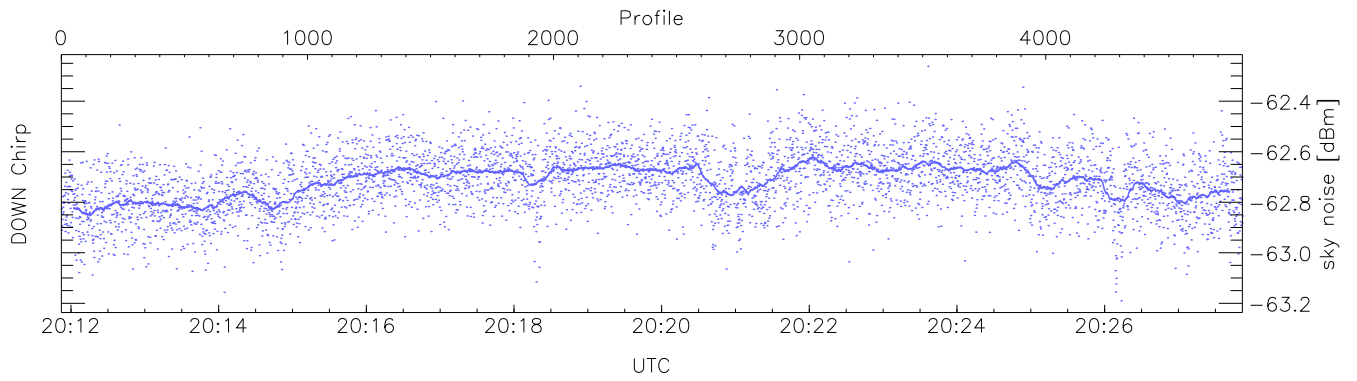
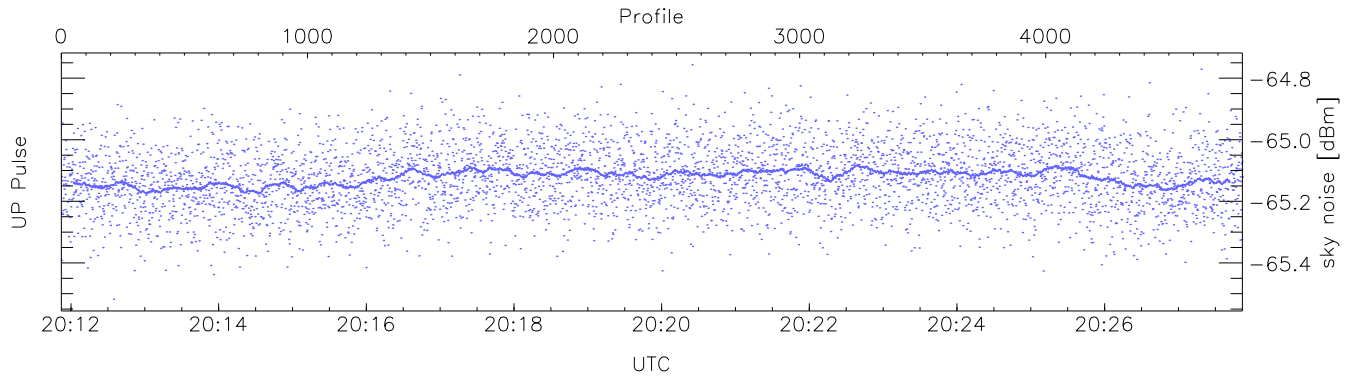
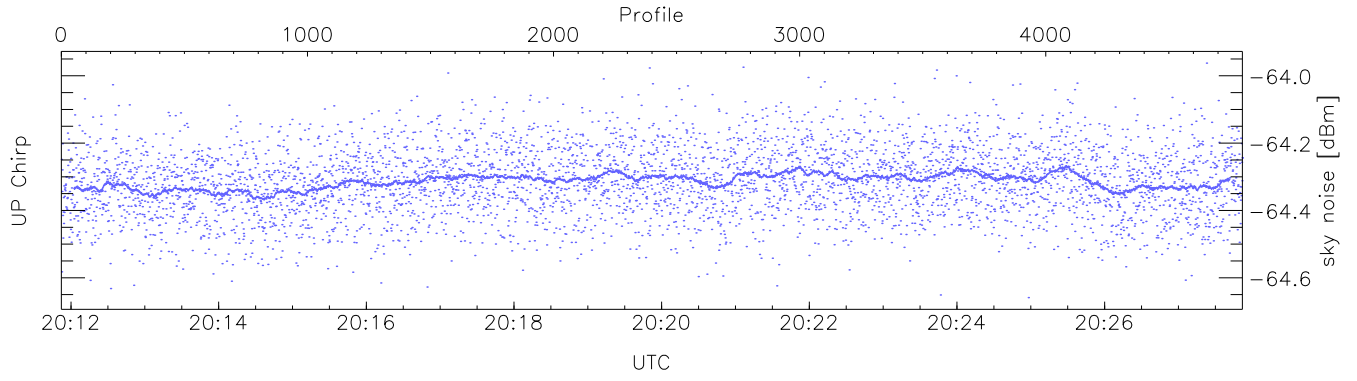


KPR SPP Receiver Gain and Noise Figure



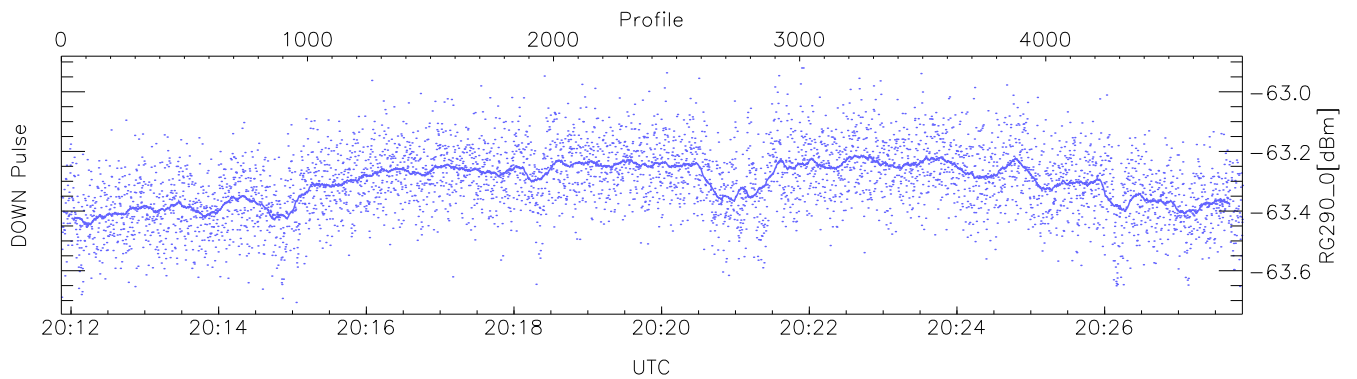
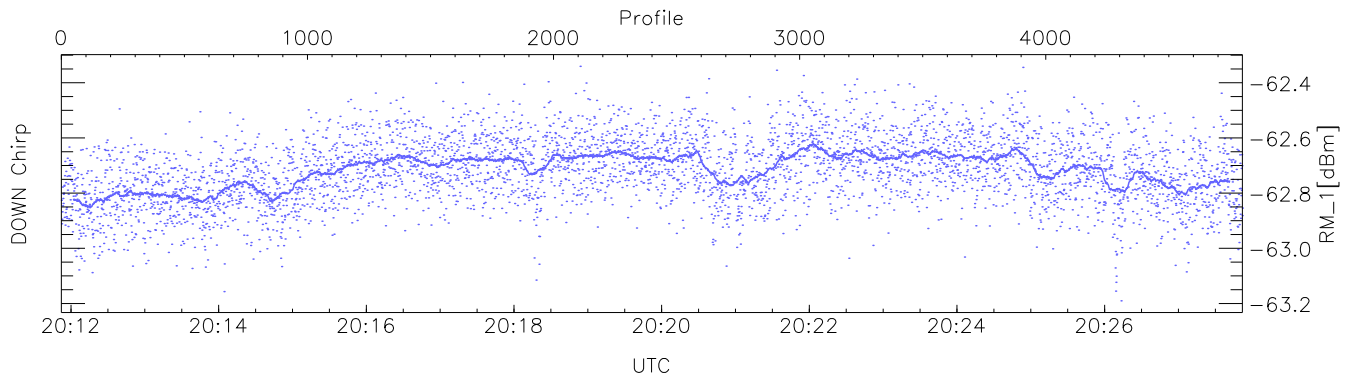
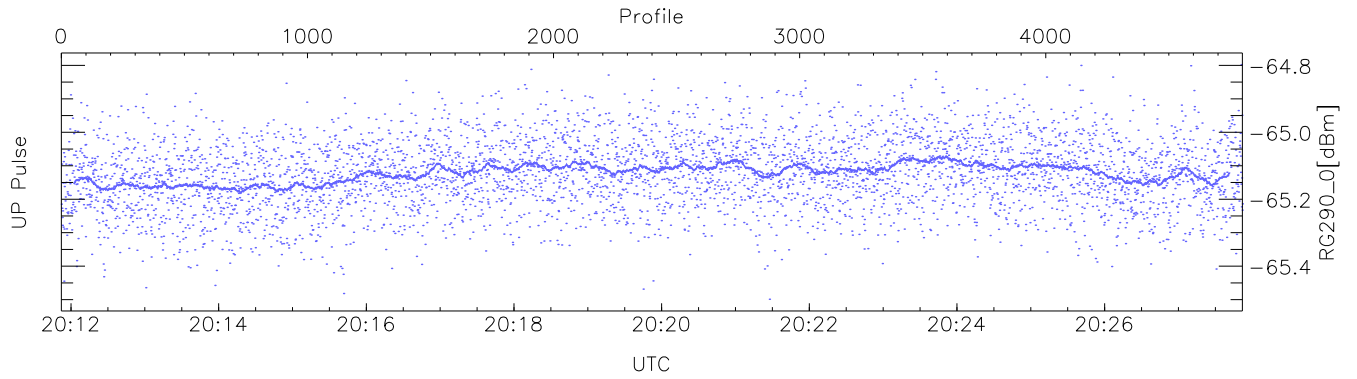
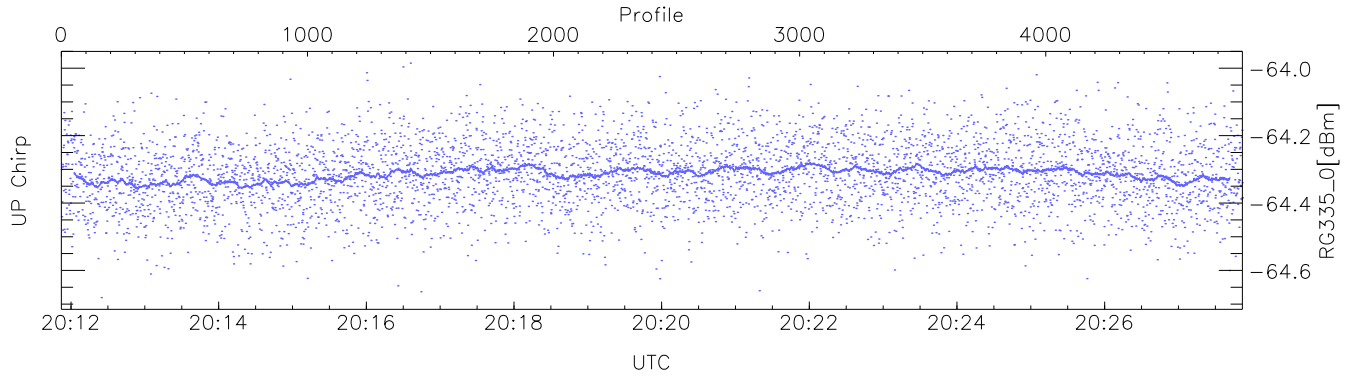
KPR SPP Receiver Noise Source Warm and Hot Measurements

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-62.90	-62.20	-62.58	-62.58	-78.90
Chirp(HL [dBm])	-58.64	-58.09	-58.36	-58.36	-75.50
Pulse(WL [dBm])	-63.45	-62.69	-63.08	-63.08	-79.33
Pulse(HL [dBm])	-60.38	-59.82	-60.09	-60.08	-77.18



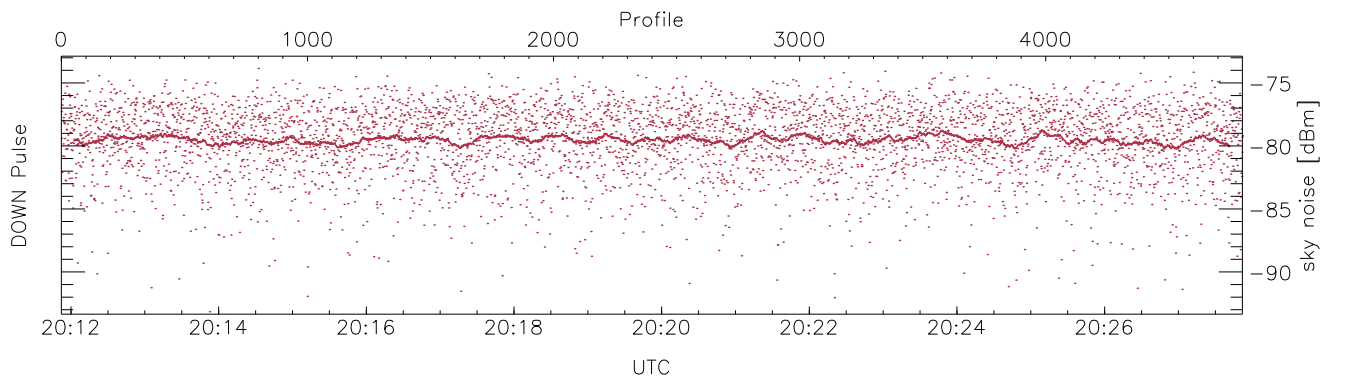
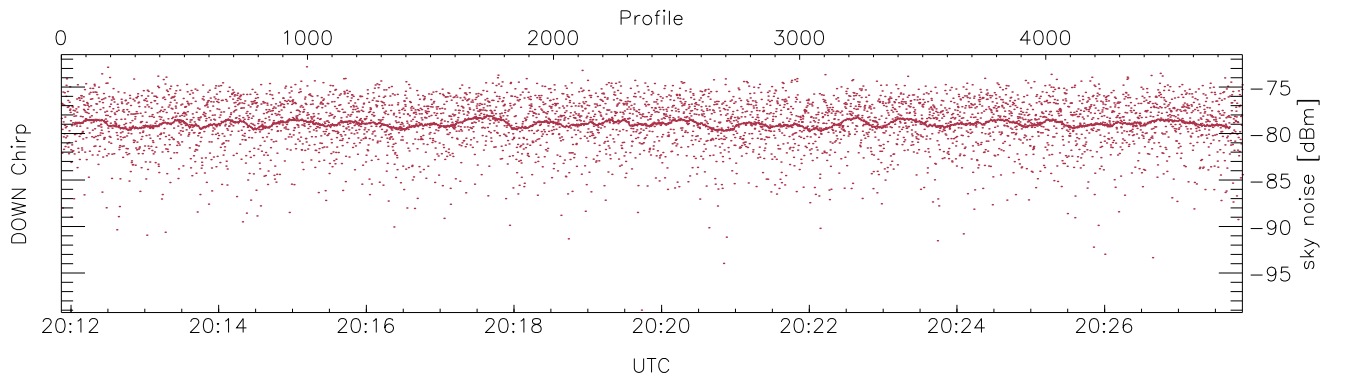
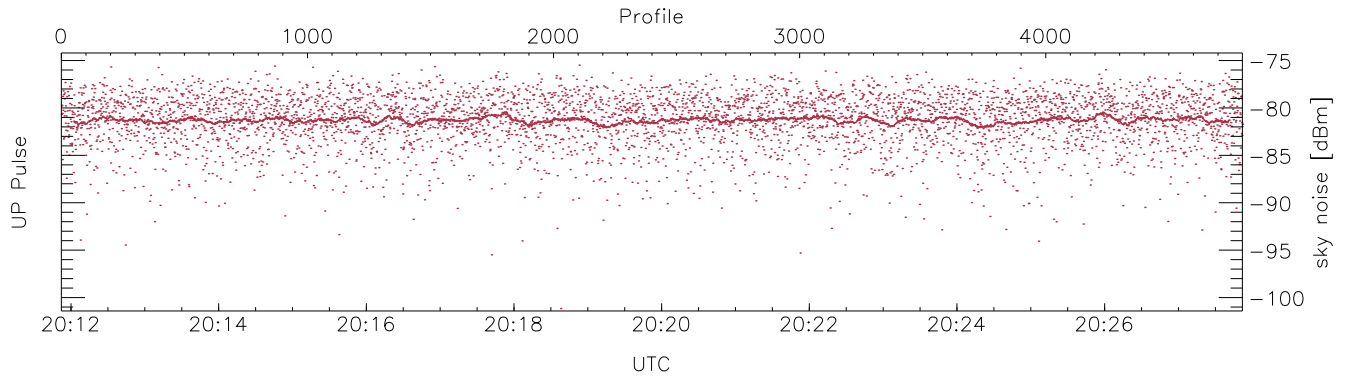
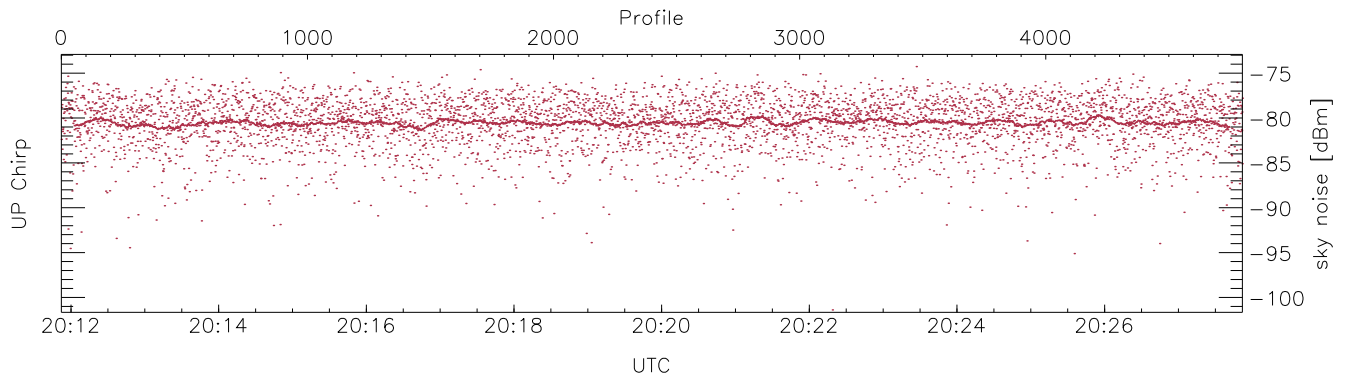
KPR SPP Last range gate power measurements: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-64.66	-63.96	-64.31	-64.31	-80.72
UP Pulse(dBm)	-65.52	-64.76	-65.12	-65.13	-81.48
DOWN Chirp(dBm)	-63.19	-62.26	-62.72	-62.72	-78.40
DOWN Pulse(dBm)	-63.82	-62.94	-63.30	-63.30	-78.85



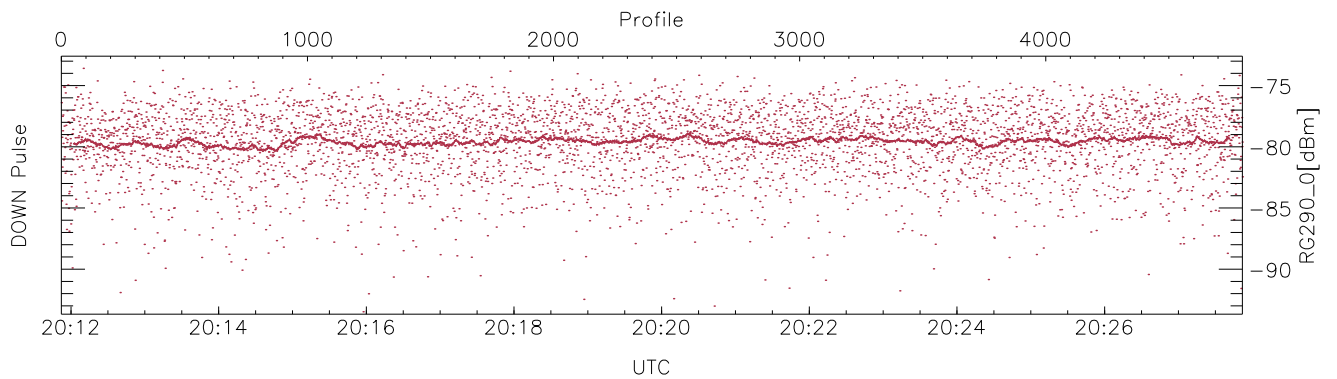
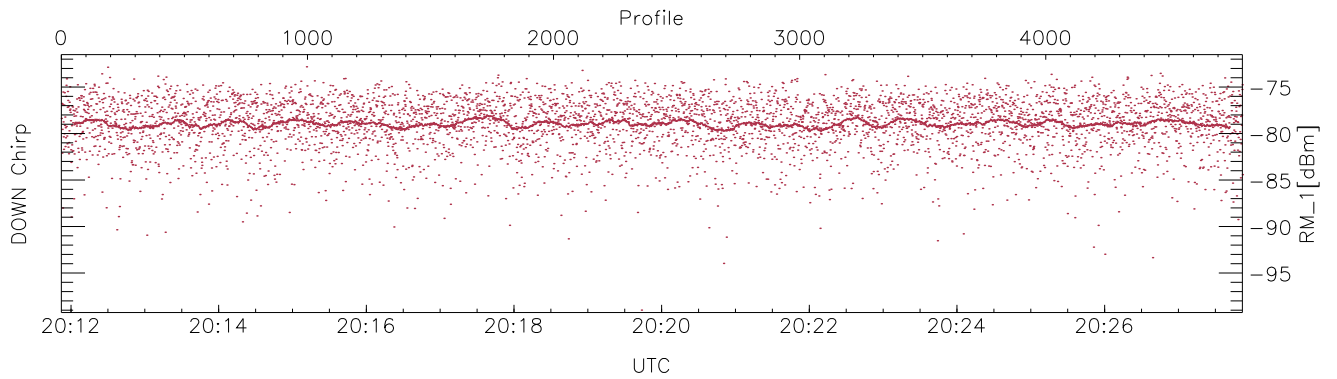
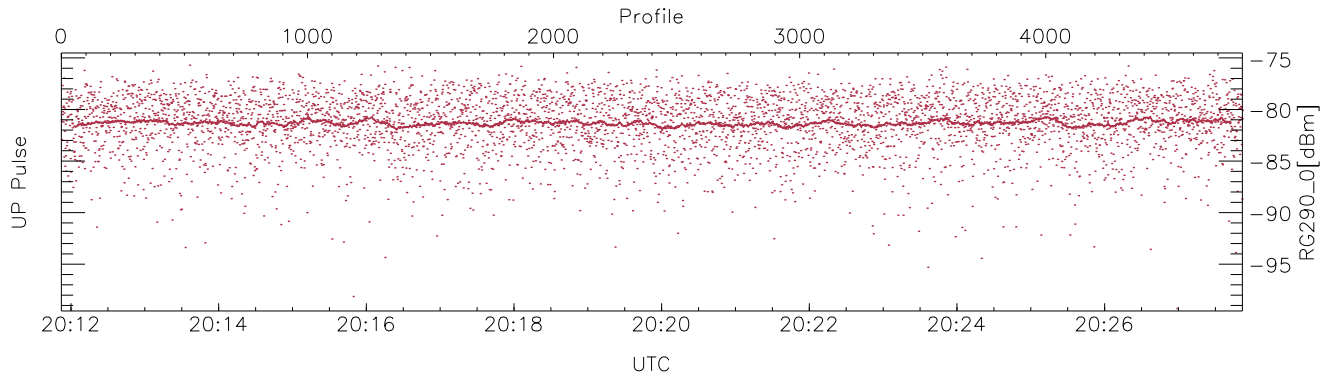
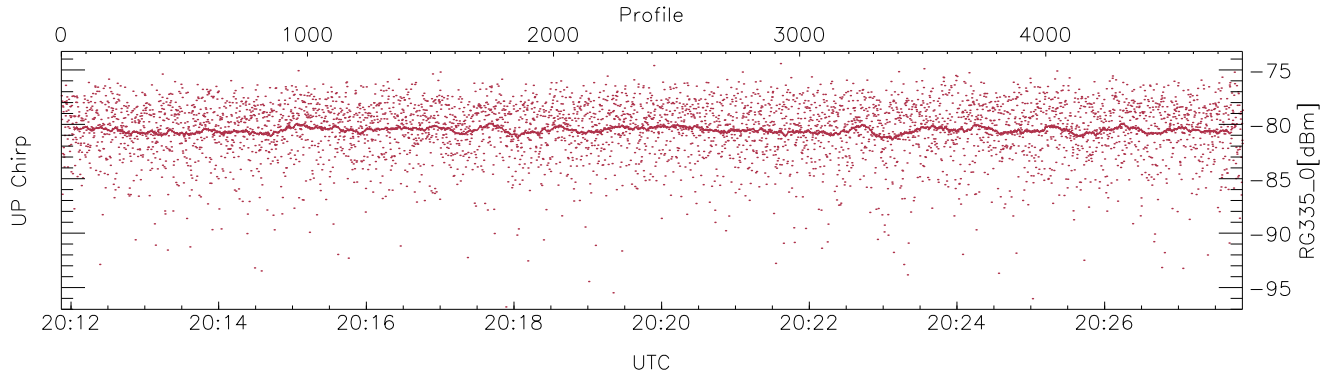
KPR SPP "Best" noise power measurements (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RG335_0	-64.68	-63.98	-64.31	-64.32	-80.81
UP_P_RG290_0	-65.50	-64.80	-65.12	-65.12	-81.43
DOWN_C_RM_1	-63.19	-62.34	-62.72	-62.72	-78.40
DOWN_P_RG290_0	-63.71	-62.92	-63.31	-63.30	-78.86



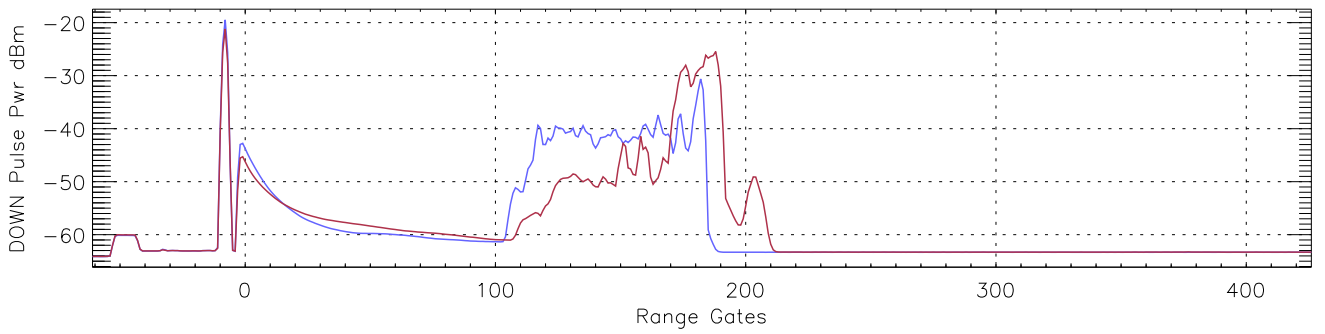
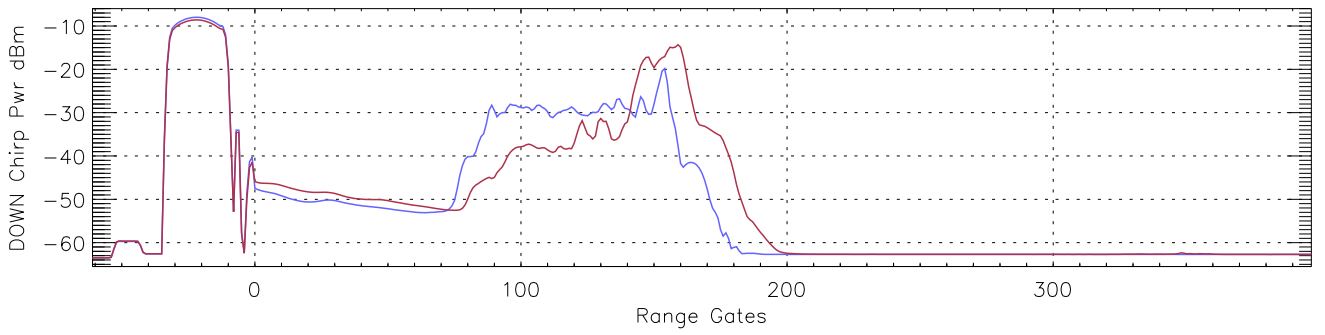
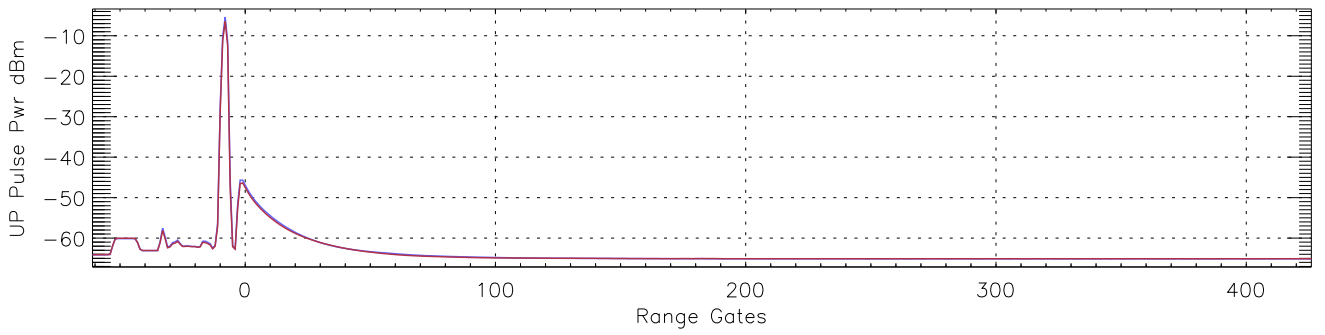
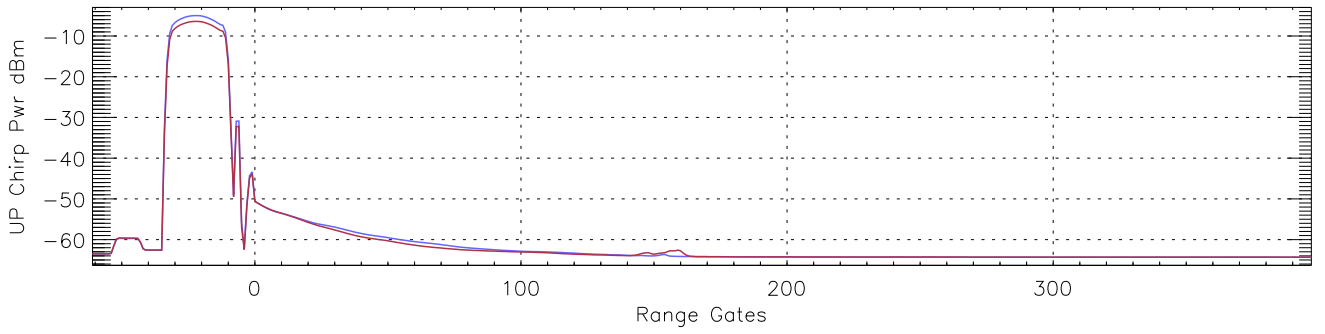
KPR SPP Last range gate PPMAG: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-101.39	-74.27	-79.81	-80.11	-82.58
UP Pulse(dBm)	-101.16	-75.49	-80.59	-80.88	-83.42
DOWN Chirp(dBm)	-98.99	-72.82	-78.24	-78.51	-81.04
DOWN Pulse(dBm)	-93.16	-73.84	-78.82	-79.16	-81.67

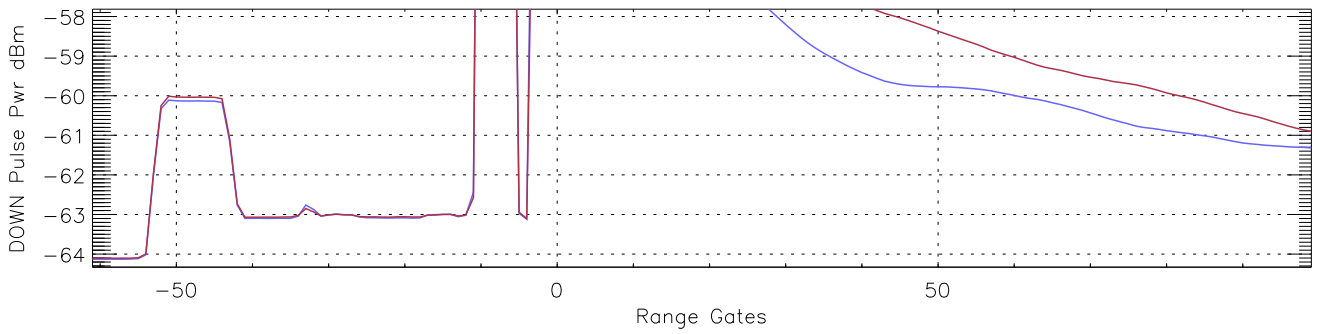
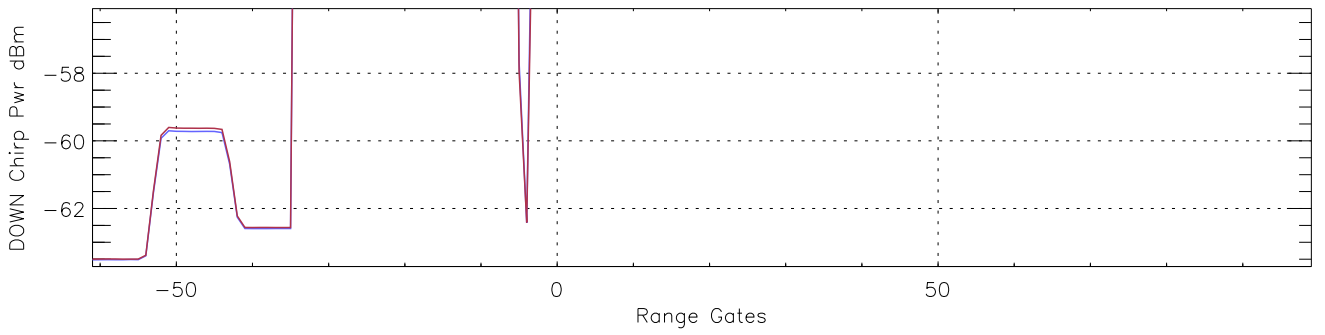
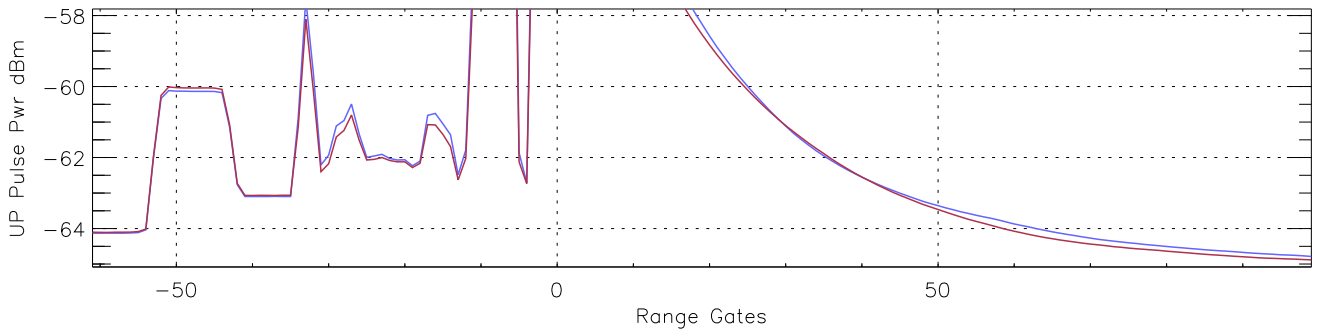
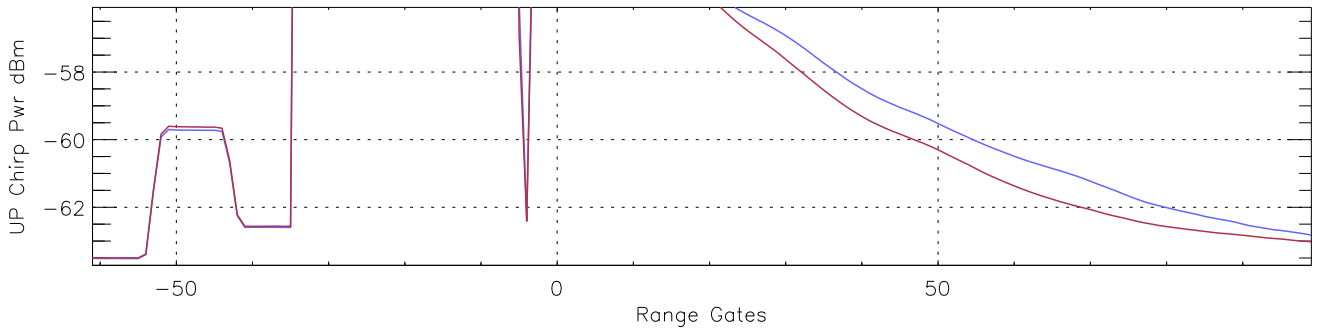


KPR SPP "Best" PPMAG noise (dBm):

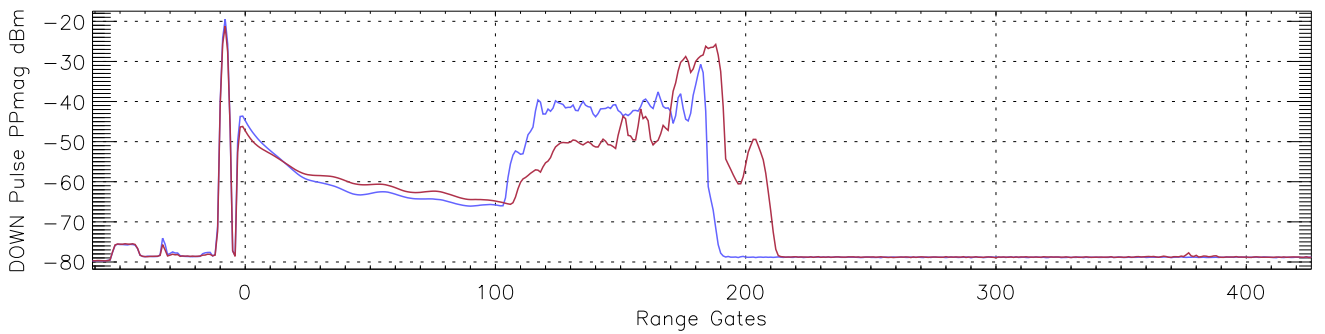
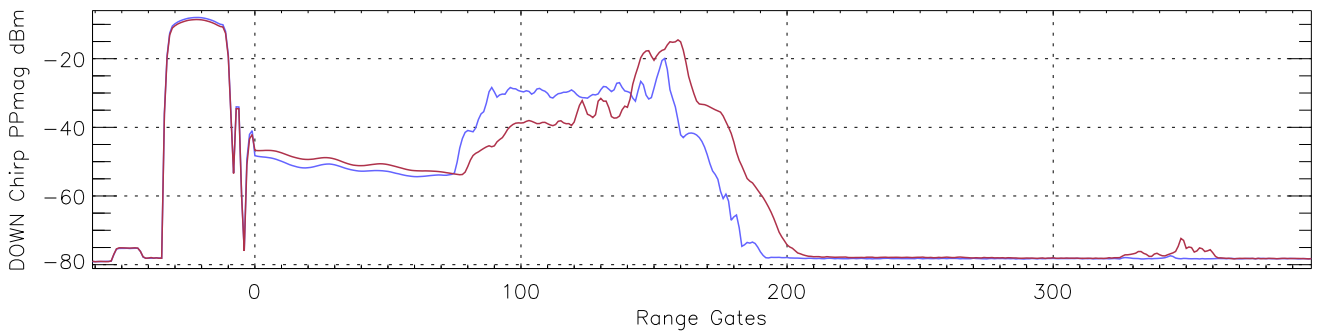
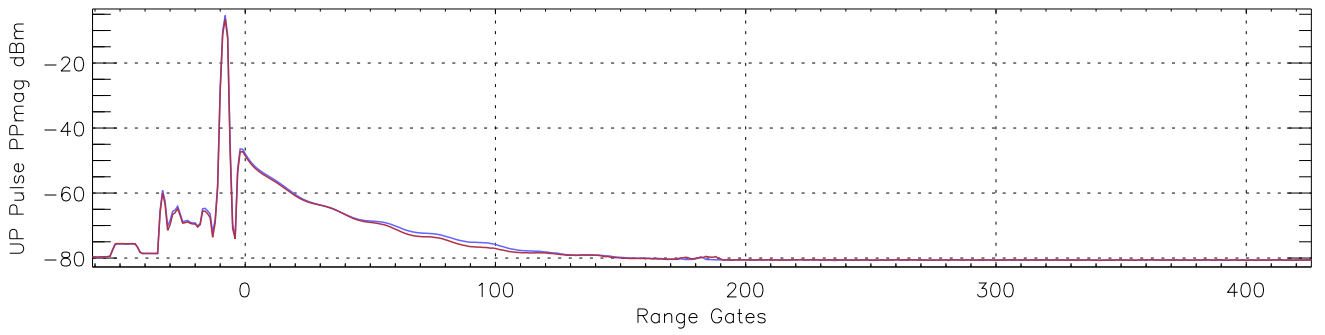
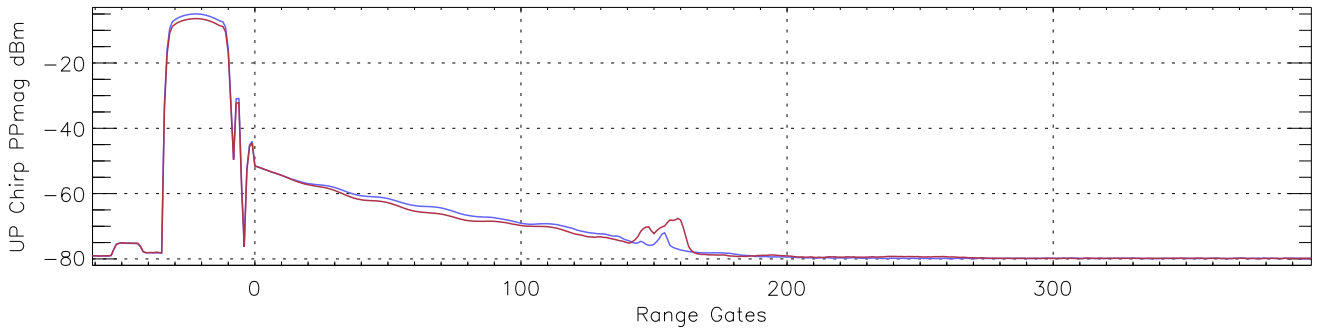
	Min	Max	Mean	Median	StDev
UP_C_RG335_0	-96.78	-74.41	-79.83	-80.07	-82.69
UP_P_RG290_0	-99.30	-75.70	-80.61	-80.90	-83.42
DOWN_C_RM_1	-98.99	-72.82	-78.24	-78.51	-81.04
DOWN_P_RG290_0	-93.48	-73.59	-78.87	-79.15	-81.63



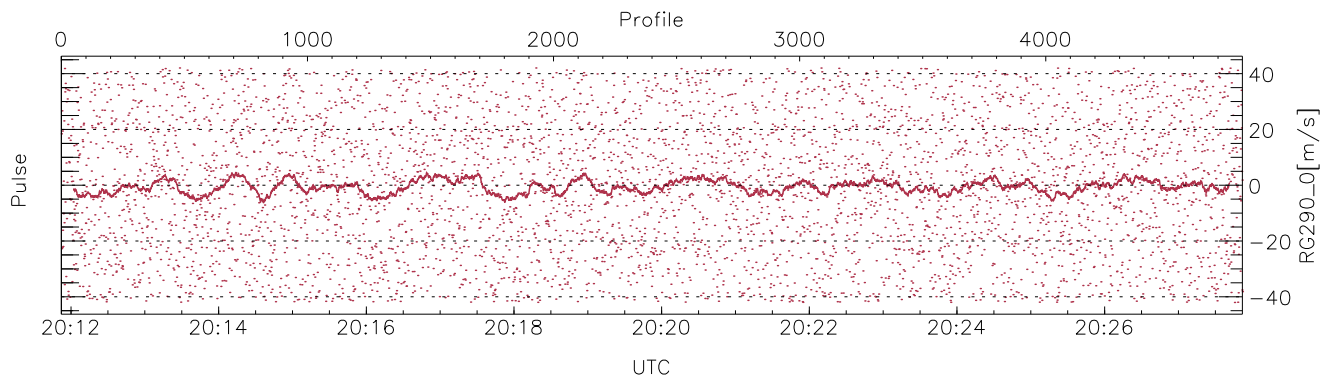
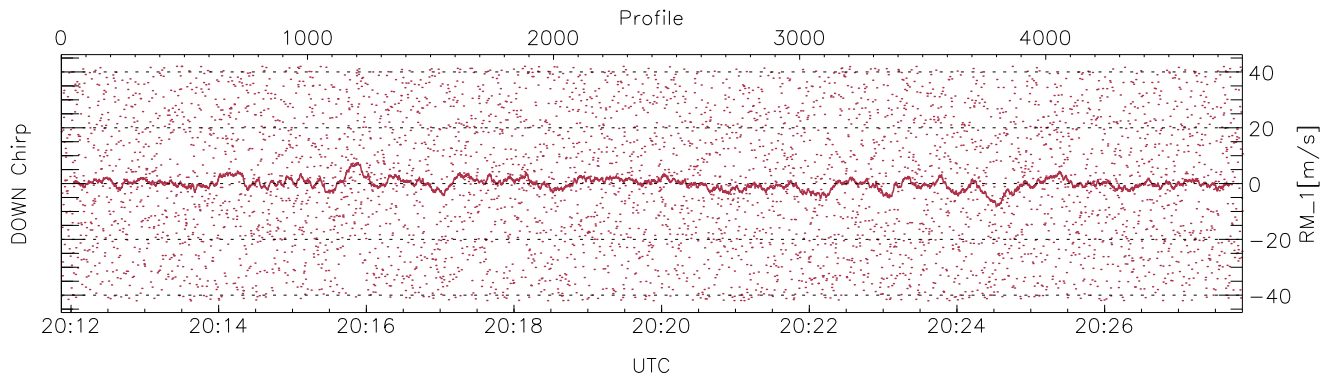
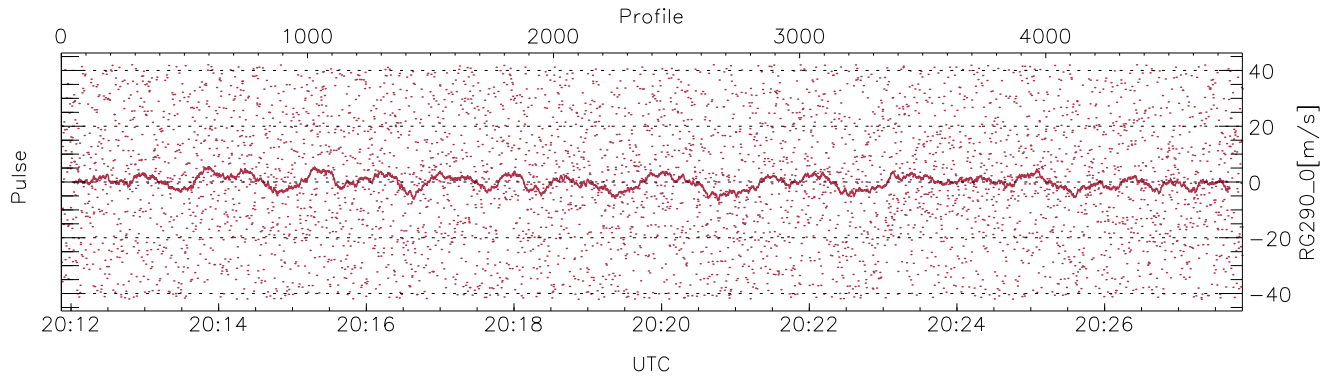
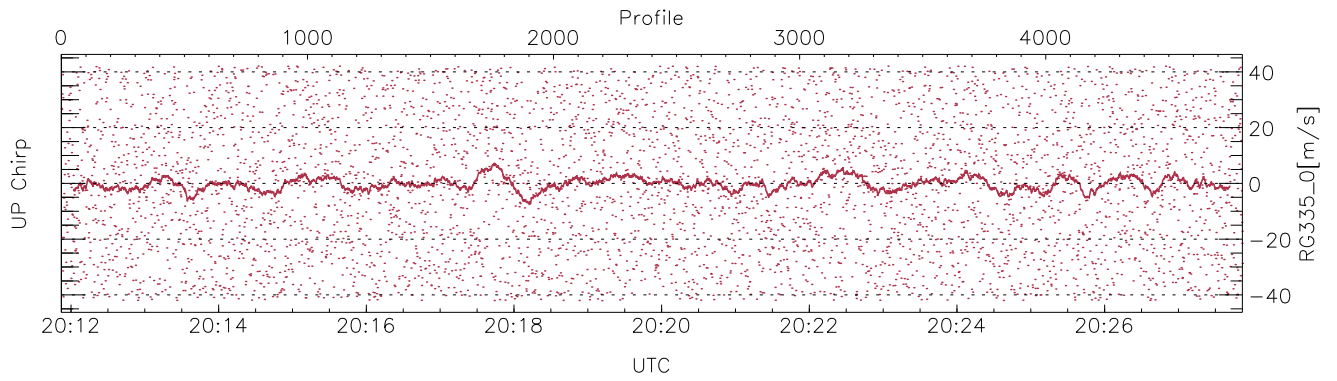
KPR SPP Averaged Received power for all recorded gates
blue: 201152-201952, 2401 profiles averaged
red: 201952-202752, 2400 profiles averaged



KPR SPP Averaged Power for neg. gates & up to 100 gates
blue: 201152-201952, 2401 profiles averaged
red: 201952-202752, 2400 profiles averaged

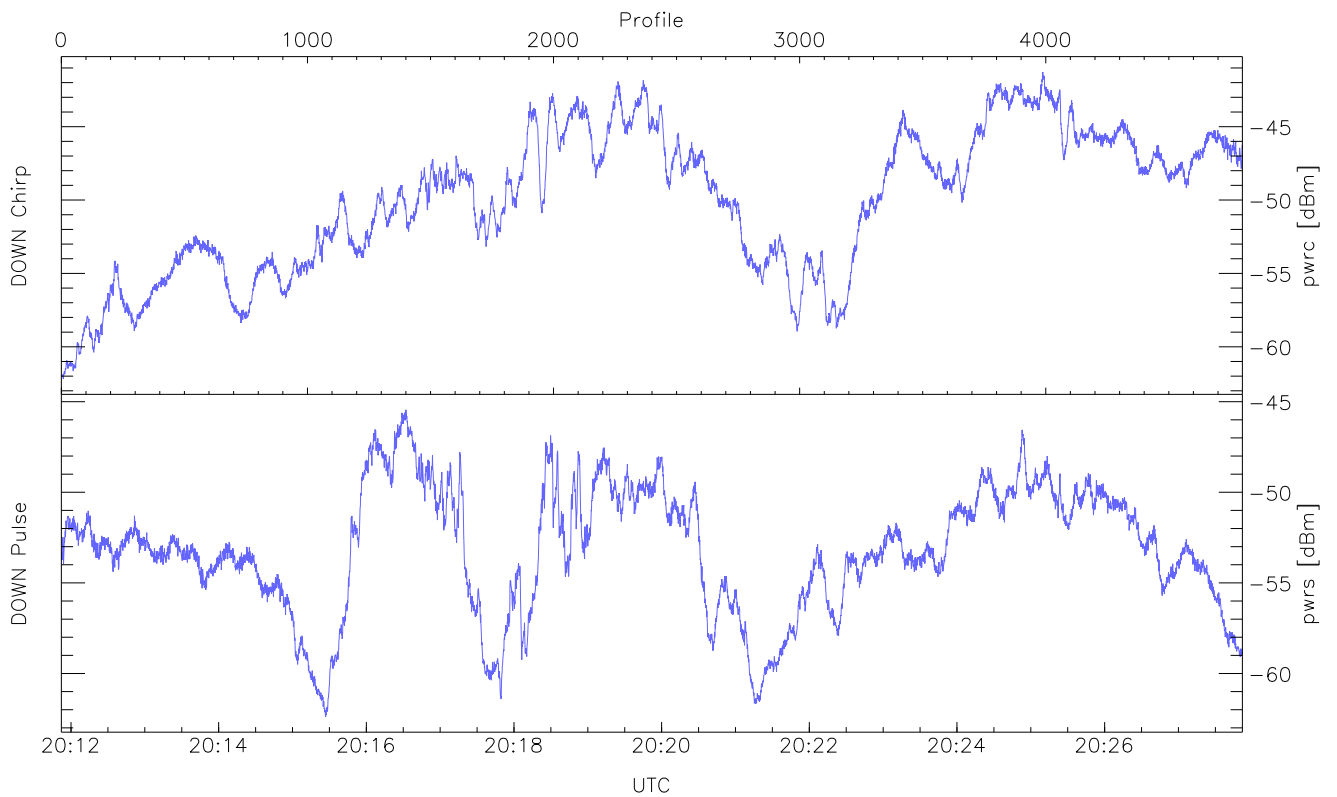
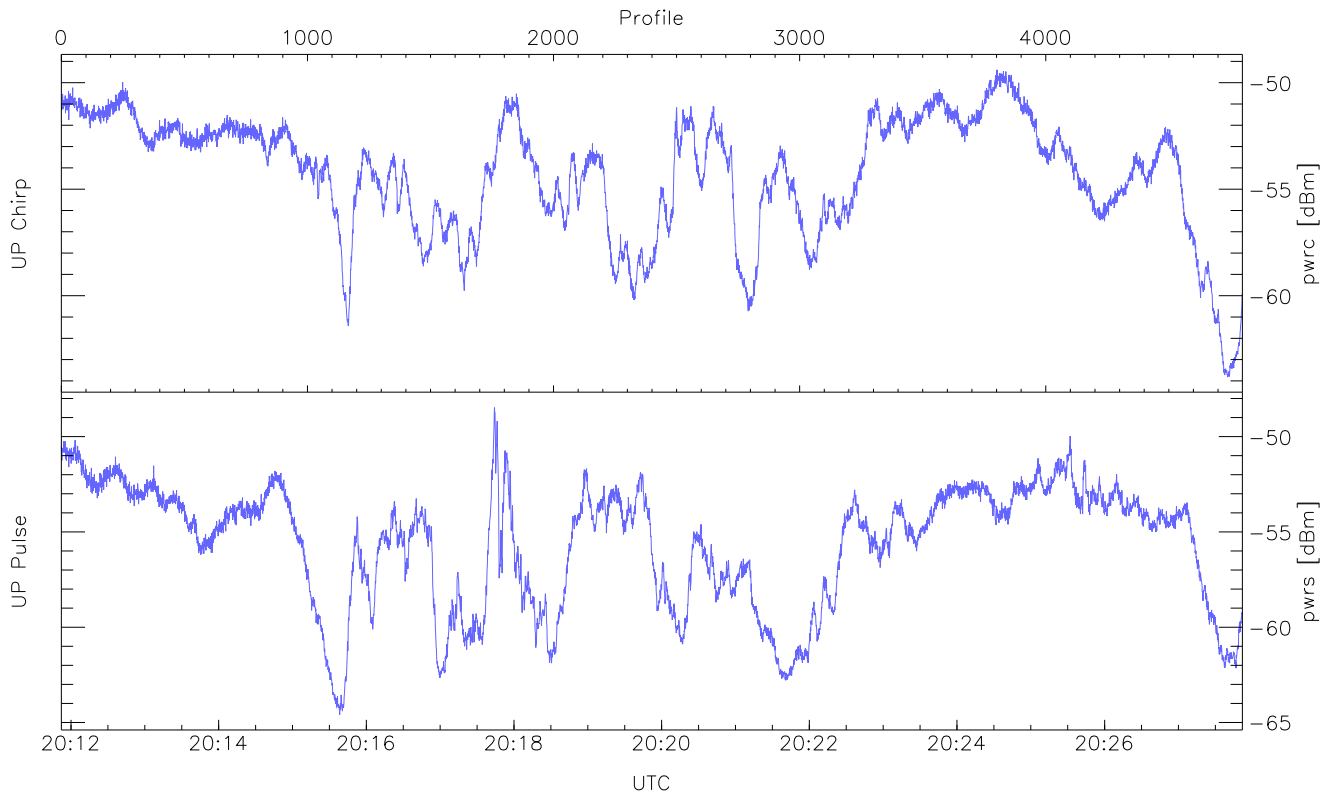


KPR SPP Averaged PP magnitude for all recorded gates
blue: 201152-201952, 2401 profiles averaged
red: 201952-202752, 2400 profiles averaged



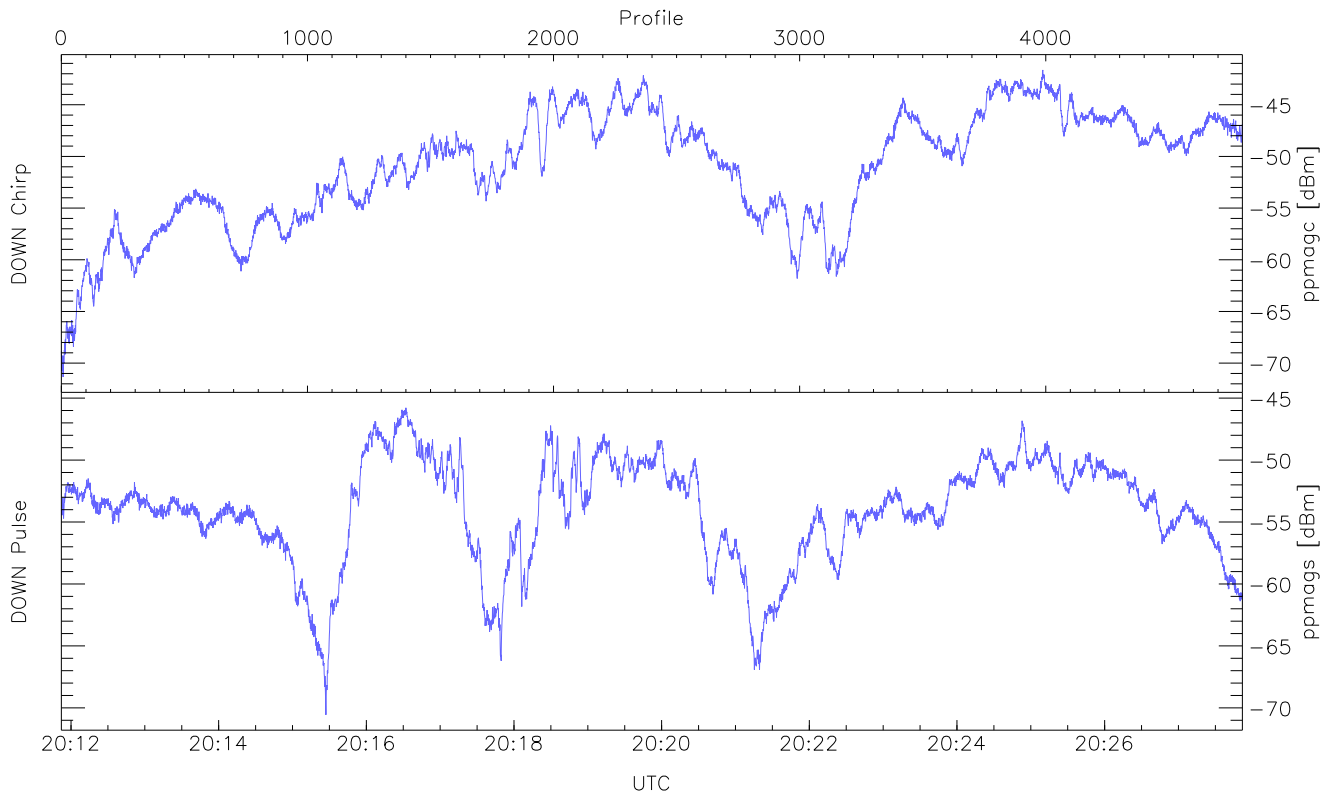
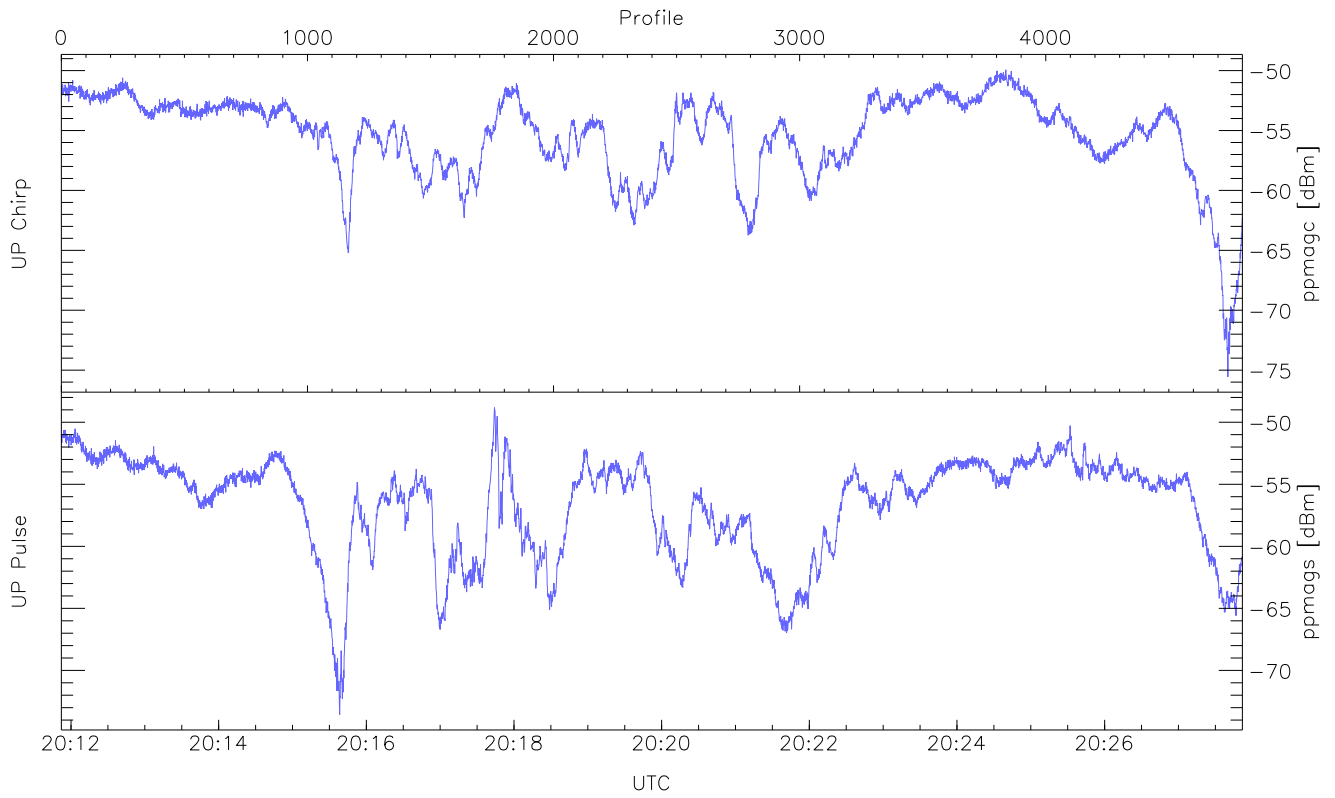
KPR SPP "Best" PPVEL noise (m/s):

	Min	Max	Mean	Median	StDev
UP_C_RG335_0	-42.06	42.05	-0.24	-0.29	24.28
UP_P_RG290_0	-42.05	42.06	-0.19	-0.06	22.90
DOWN_C_RM_1	-42.03	42.01	-0.11	-0.08	24.01
DOWN_P_RG290_0	-42.03	42.05	-0.62	-0.13	23.46



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

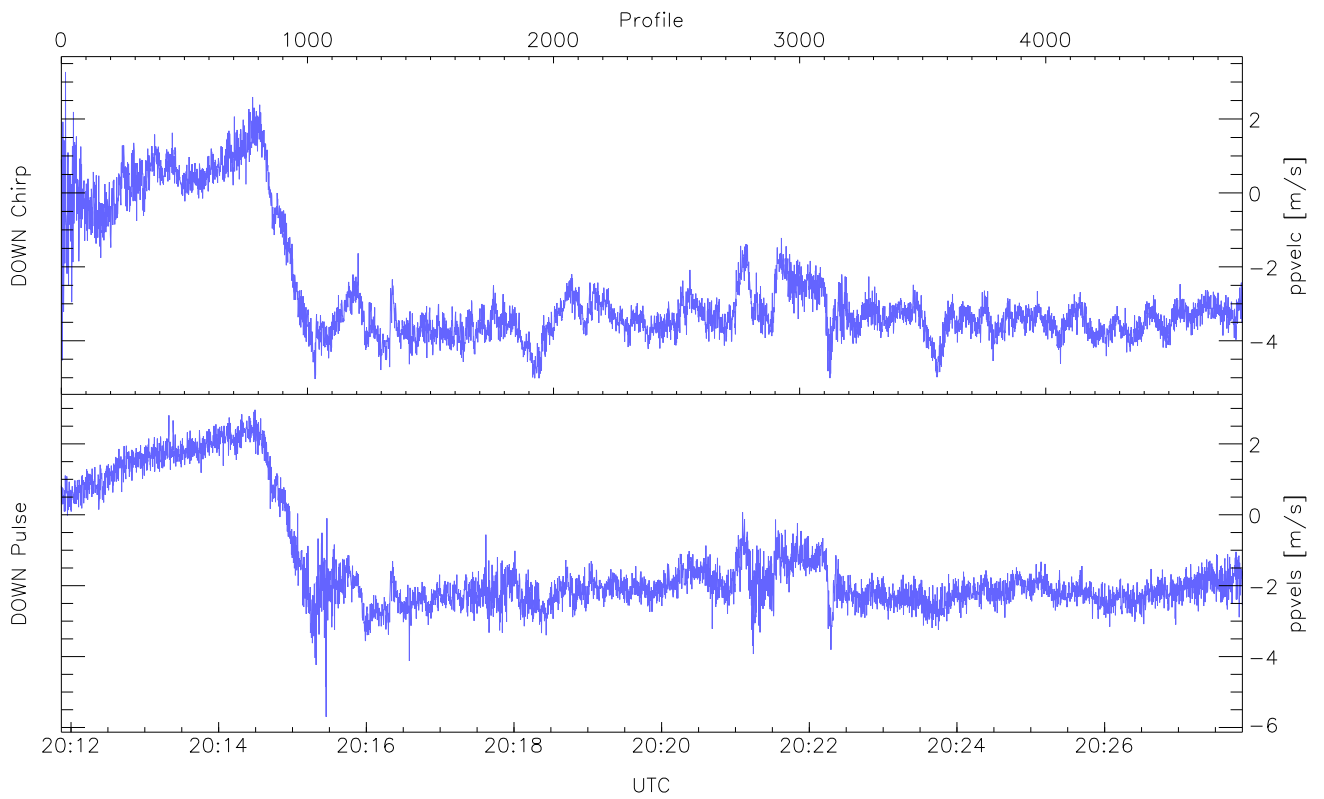
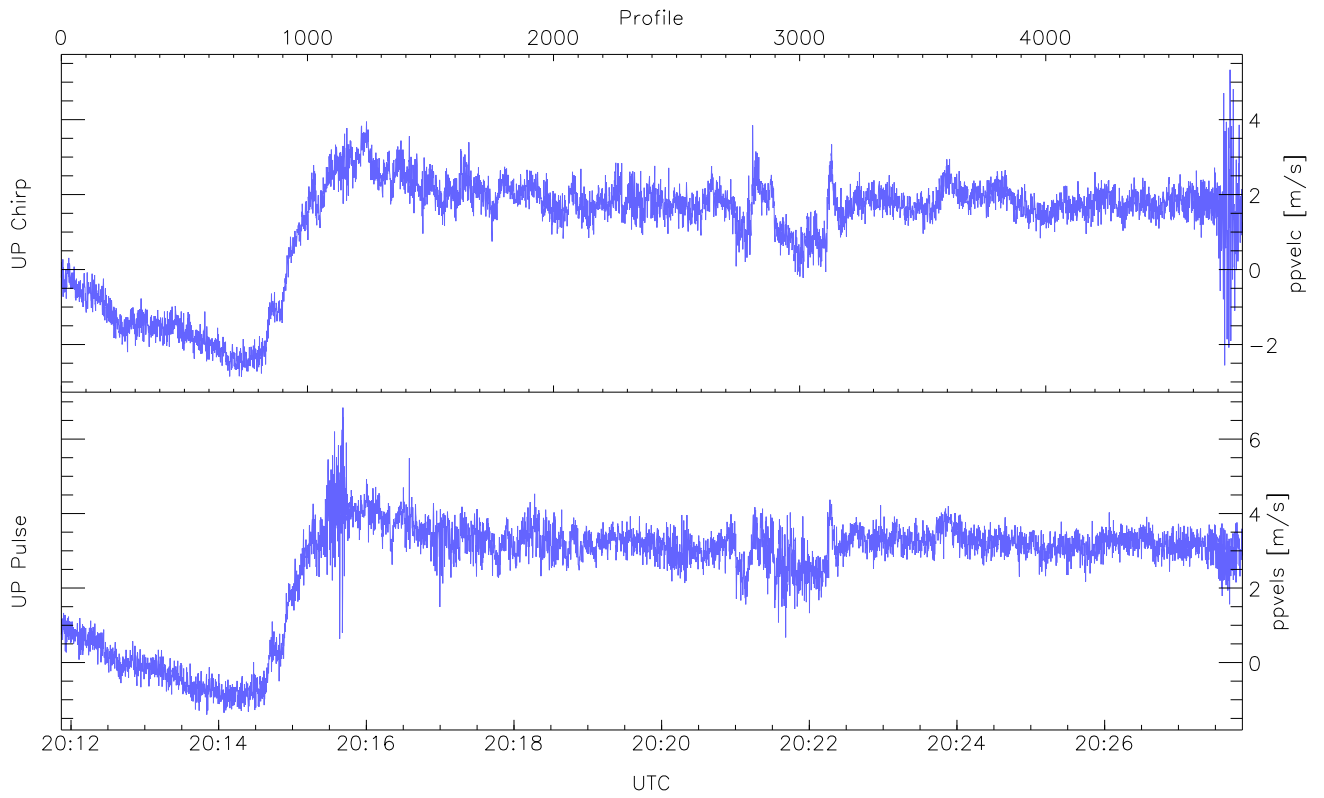
	Min	Max	Mean
UP Chirp(dBm)	-63.81	-49.39	-53.53
UP Pulse(dBm)	-64.59	-48.48	-54.69
DOWN Chirp(dBm)	-62.20	-41.27	-47.83
DOWN Pulse(dBm)	-62.39	-45.45	-52.01



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

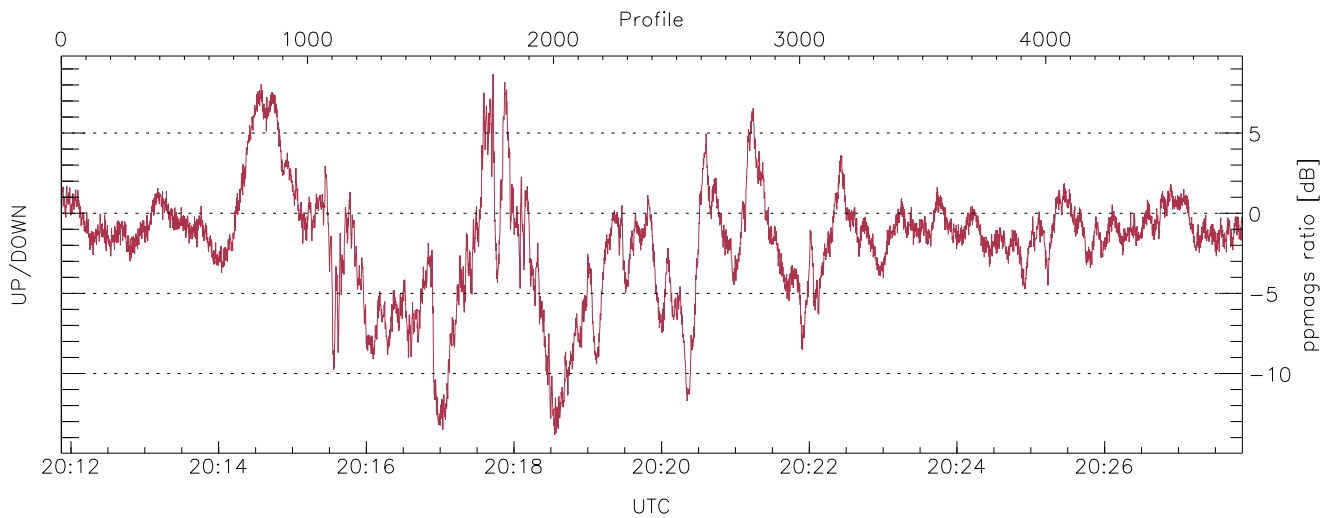
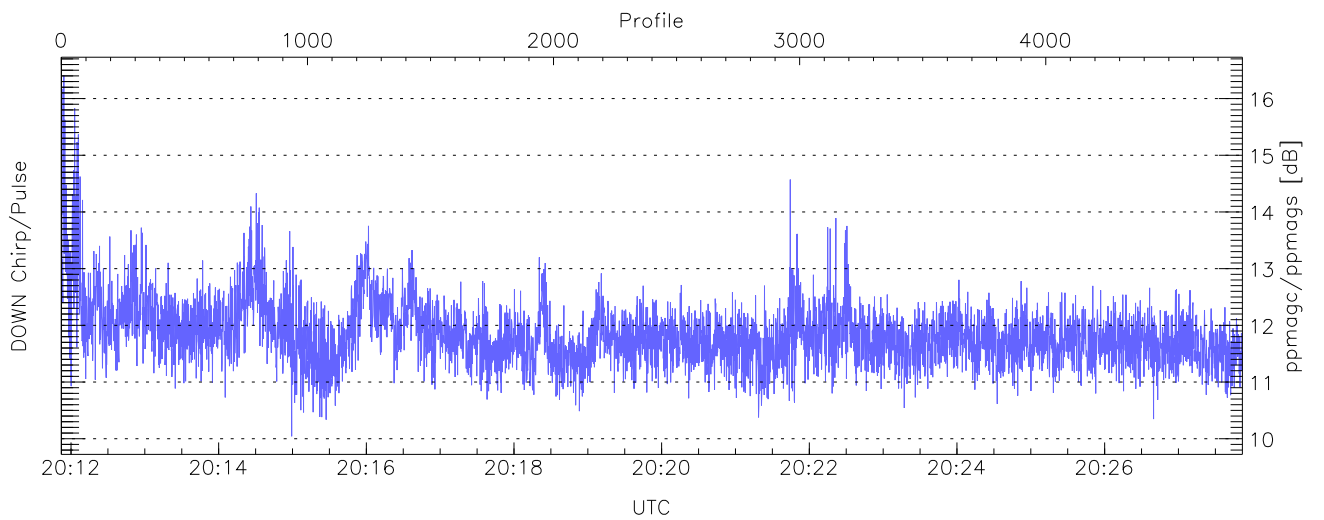
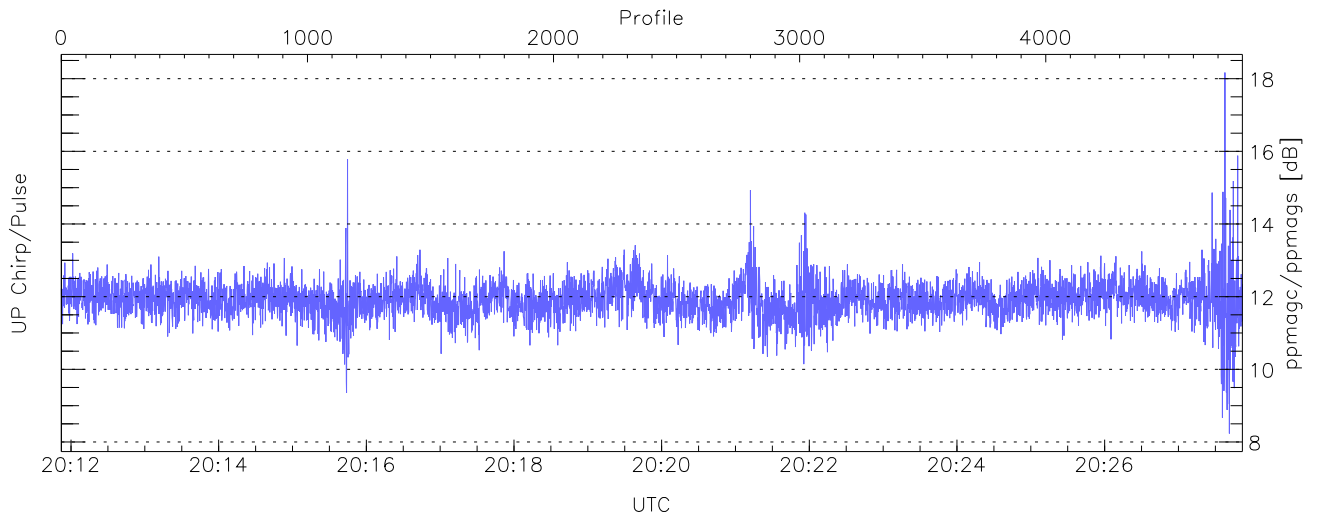
KPR SPP PPMAG for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-75.56	-49.93	-54.39
UP Pulse(dBm)	-73.56	-48.81	-55.35
DOWN Chirp(dBm)	-71.35	-41.63	-48.49
DOWN Pulse(dBm)	-70.56	-45.78	-52.59



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)	-2.86	5.33	1.20
UP Pulse(m/s)	-1.40	6.85	2.57
DOWN Chirp(m/s)	-5.04	3.27	-2.67
DOWN Pulse(m/s)	-5.70	2.96	-1.40



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

	Min	Max	Mean
UP Chirp/Pulse(dBm)	8.23	18.17	11.95
DOWN Chirp/Pulse(dBm)	10.04	16.41	11.88
UP/DOWN Ratio at Range 135.8 m			
	Min	Max	Mean
UP/DOWN(dB)	-13.84	8.68	-0.48