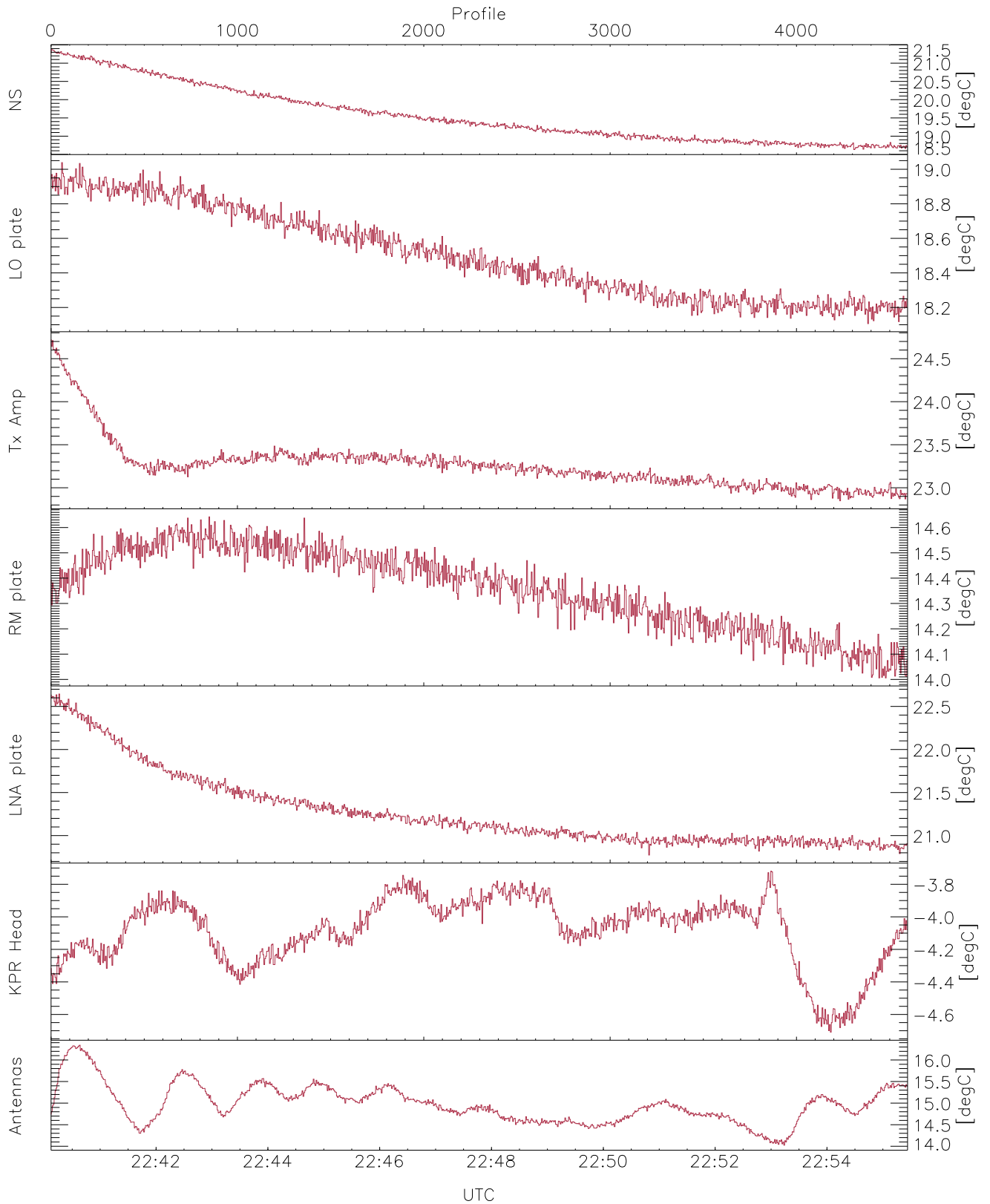


KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF
 UTC: 22:40:07-22:55:27, TimeCor: 0.00s, Dur: 919.20s
 TimeInt(min,max,mn,std): 187.5,212.5,200.0,1.0 ms; PPS: 5.0
 NumRec(r/t): 4597/4597, 0-4596/22:40:07-22:55:27
 AcqTime(req,actual): 200.0,200.0 ms, Data Rate: 187.6 KB/s
 Pulse: 247 ns, Chirp: 2.47 us, DRxIF: 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

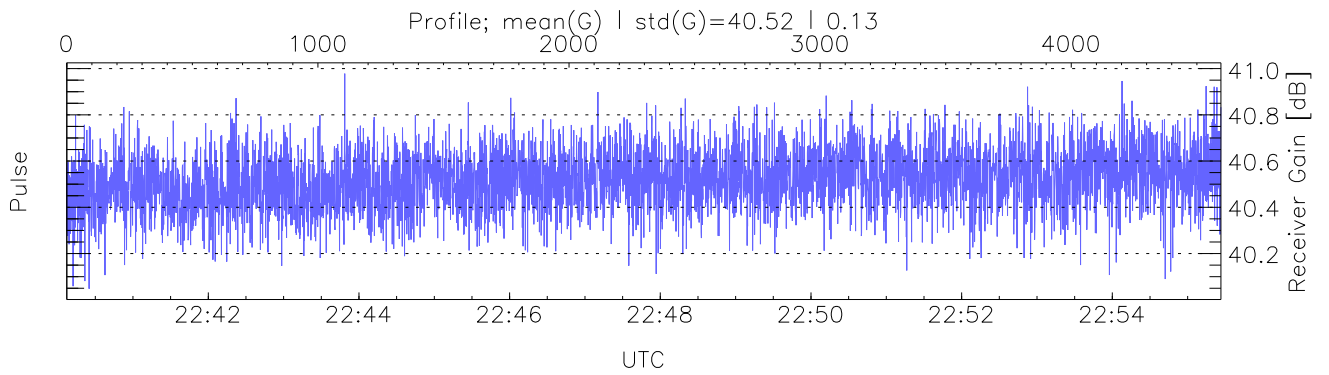
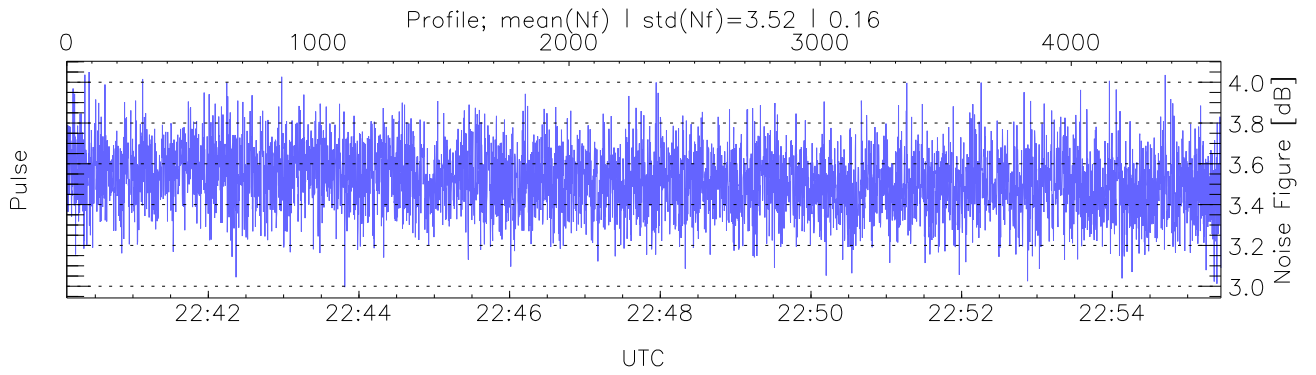
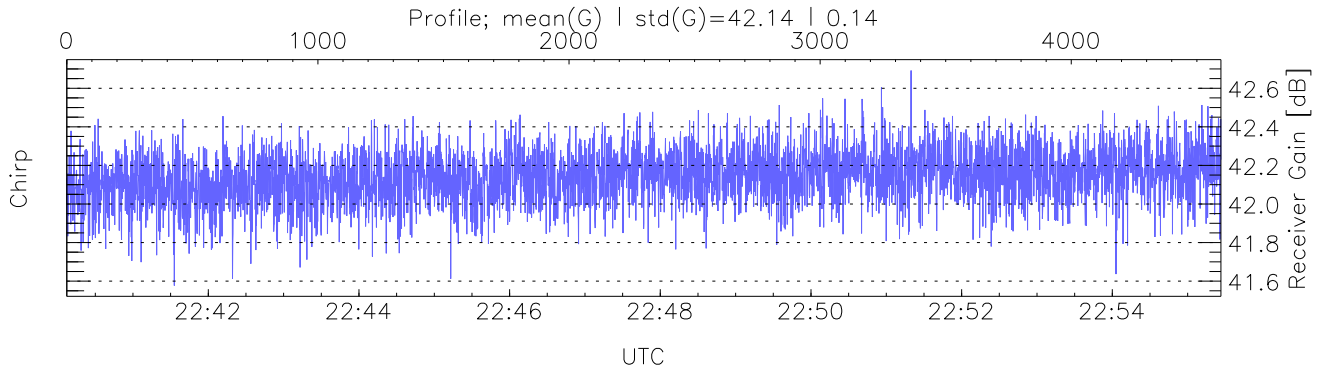
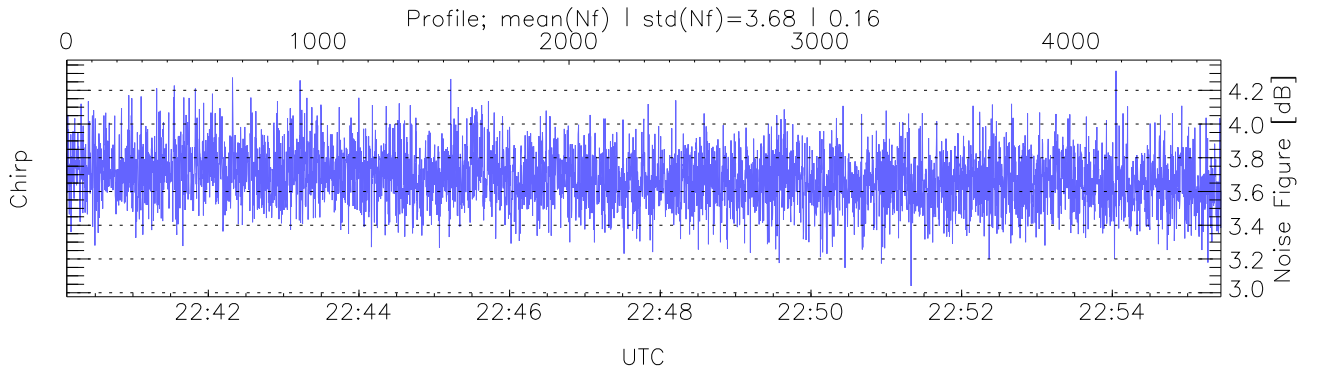


KPR SPP Temperatures, Power Supplies, PLO lock:

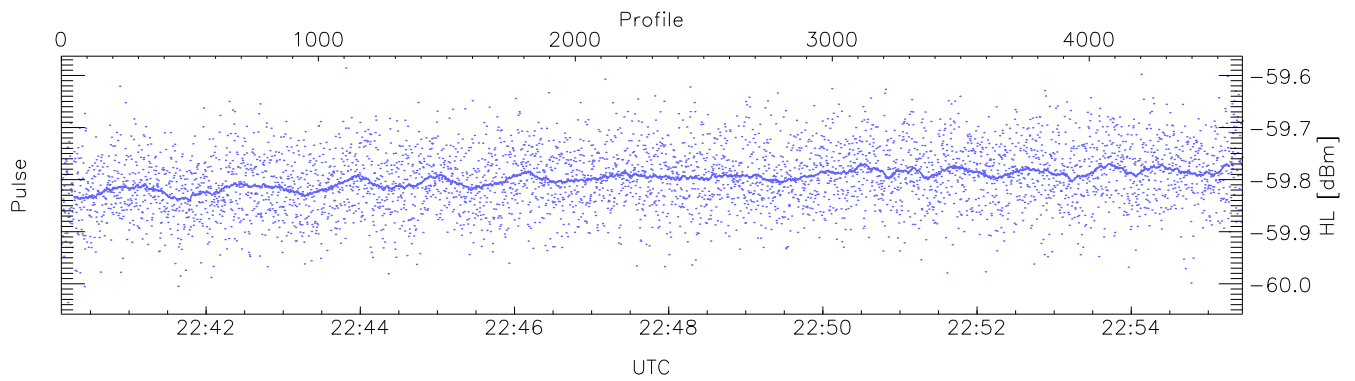
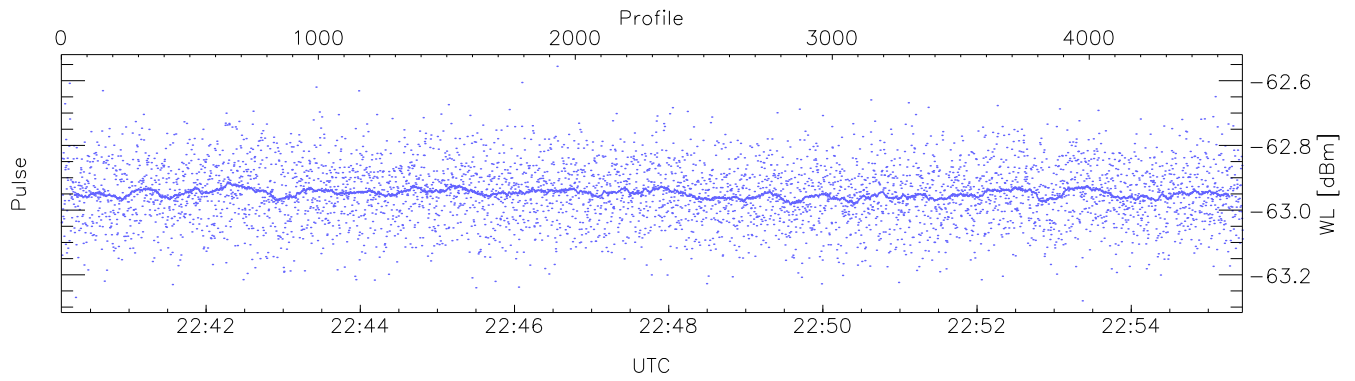
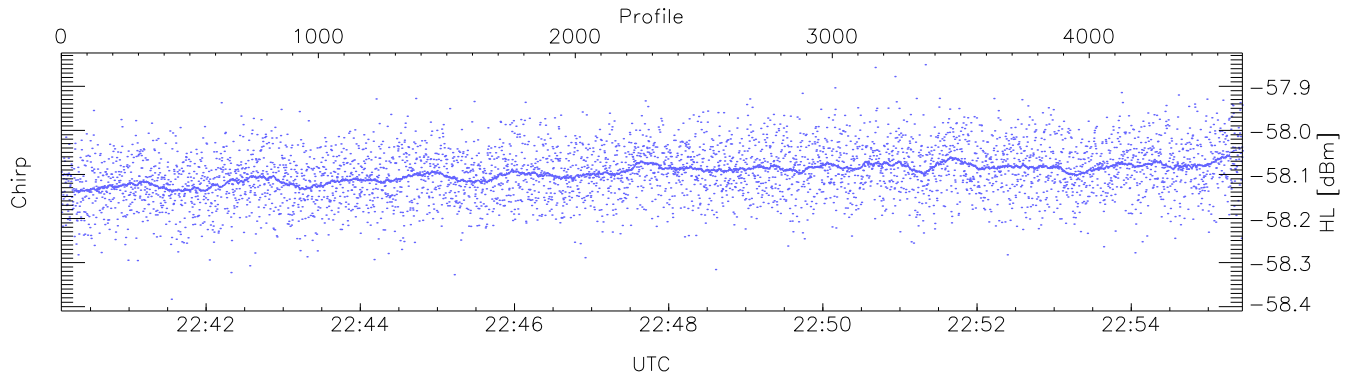
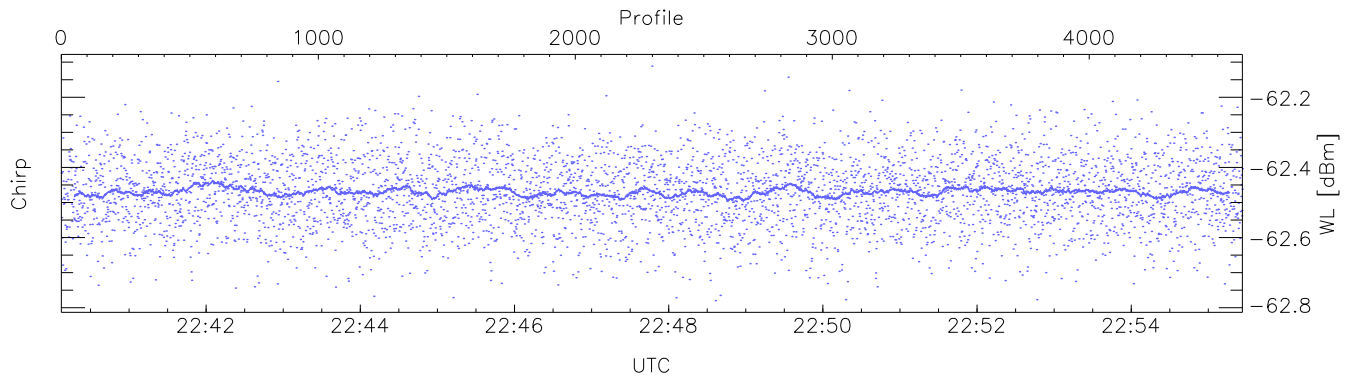
temperature: NS, LO, Tx, RM, LNA, Head, Ant
 mintempC: 18.6, 18.1, 22.8, 14.0, 20.8, -4.7, 14.0
 maxtempC: 21.4, 19.0, 24.7, 14.6, 22.6, -3.7, 16.3
 meantempC: 19.6, 18.5, 23.3, 14.4, 21.3, -4.1, 15.0

PwrSply: 28, 12, 8, 5 VDC
 minVDC: 25.83, 11.68, 7.87, 5.21
 maxVDC: 27.98, 11.74, 7.89, 5.23
 meanVDC: 27.00, 11.71, 7.88, 5.22

PLO(3.84,15.84 GHz) unlocked: None

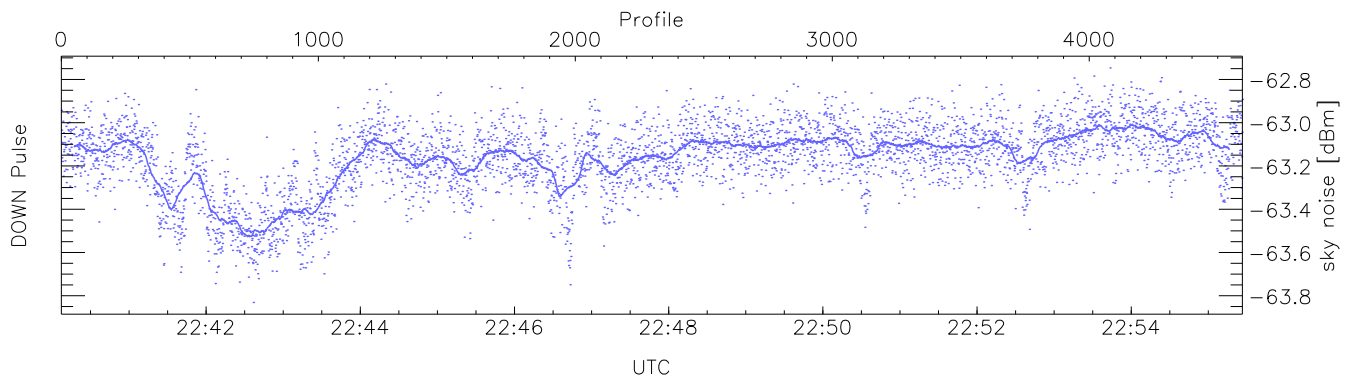
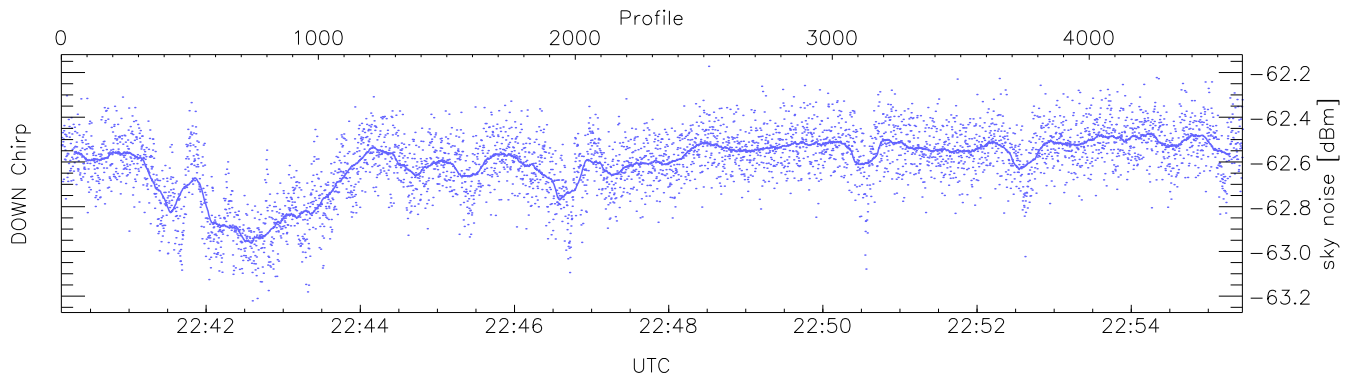
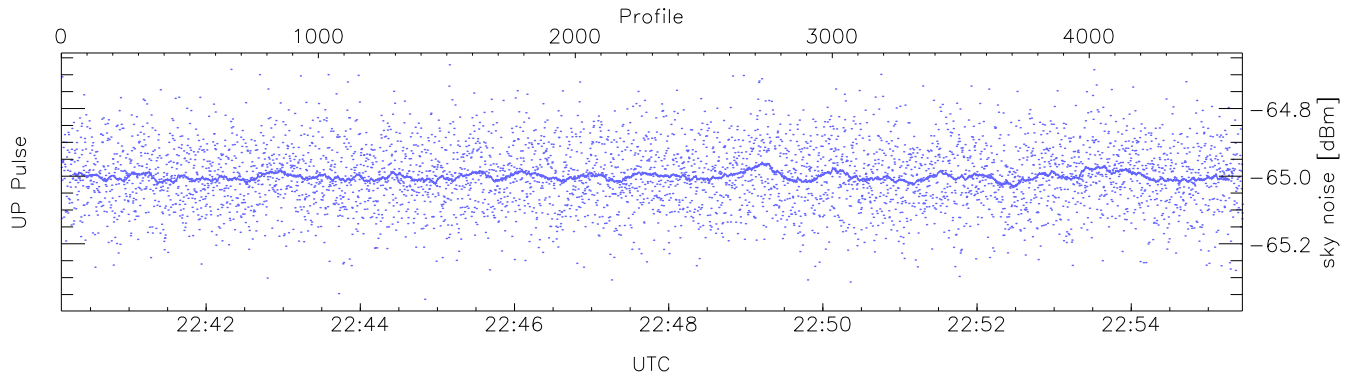
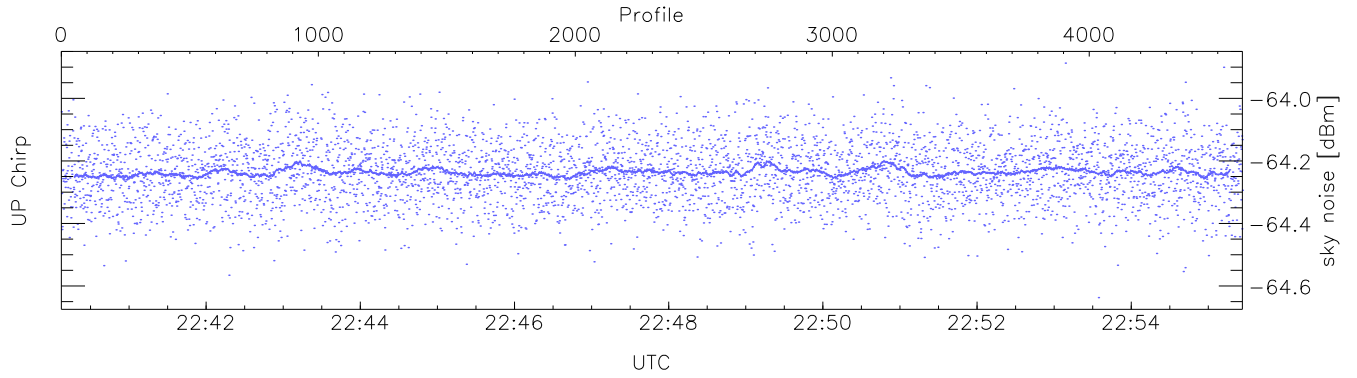


KPR SPP Receiver Gain and Noise Figure



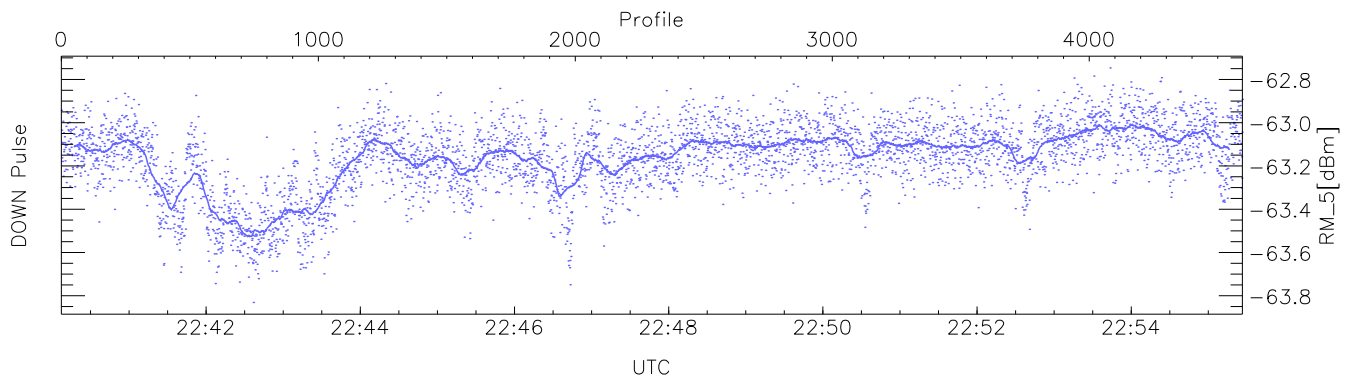
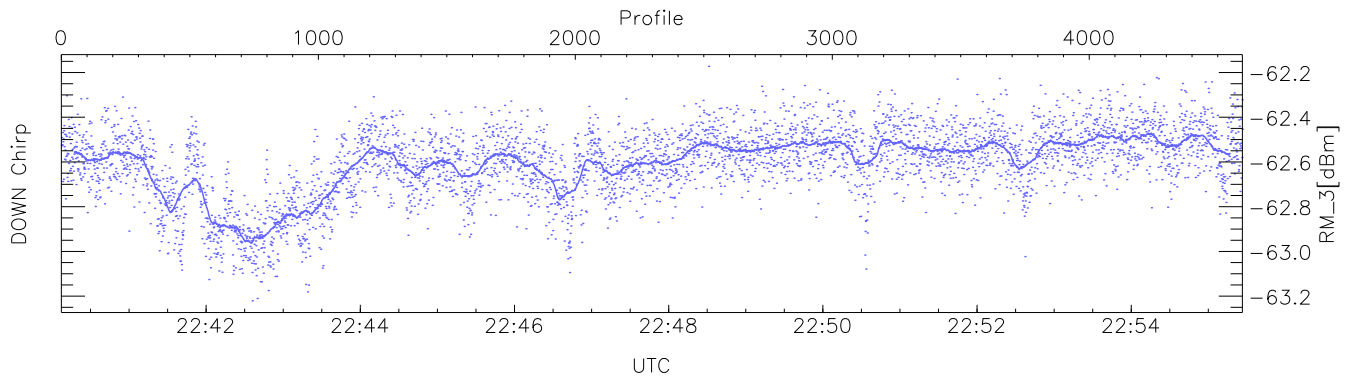
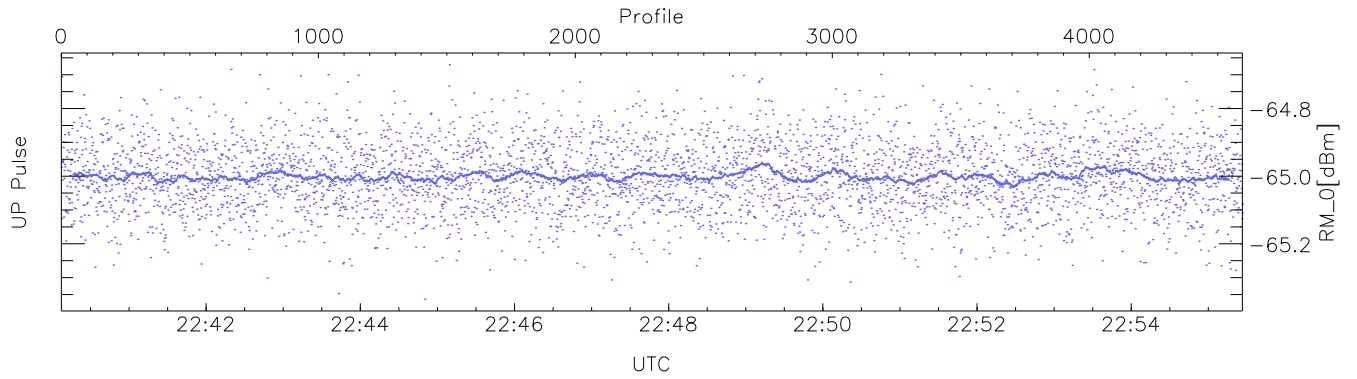
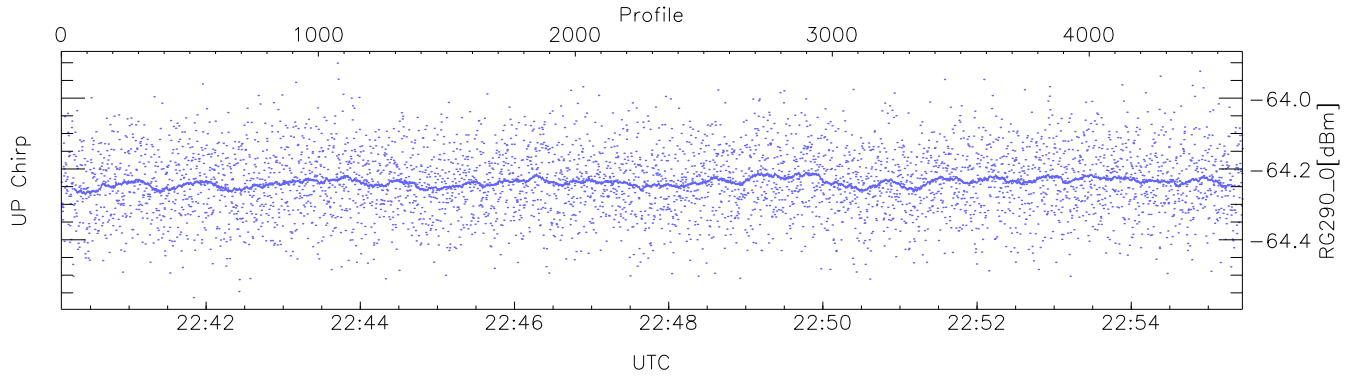
KPR SPP Receiver Noise Source Warm and Hot Measurements

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-62.78	-62.11	-62.47	-62.47	-78.96
Chirp(HL [dBm])	-58.38	-57.85	-58.10	-58.10	-76.49
Pulse(WL [dBm])	-63.28	-62.56	-62.95	-62.95	-79.46
Pulse(HL [dBm])	-60.04	-59.59	-59.80	-59.80	-78.32



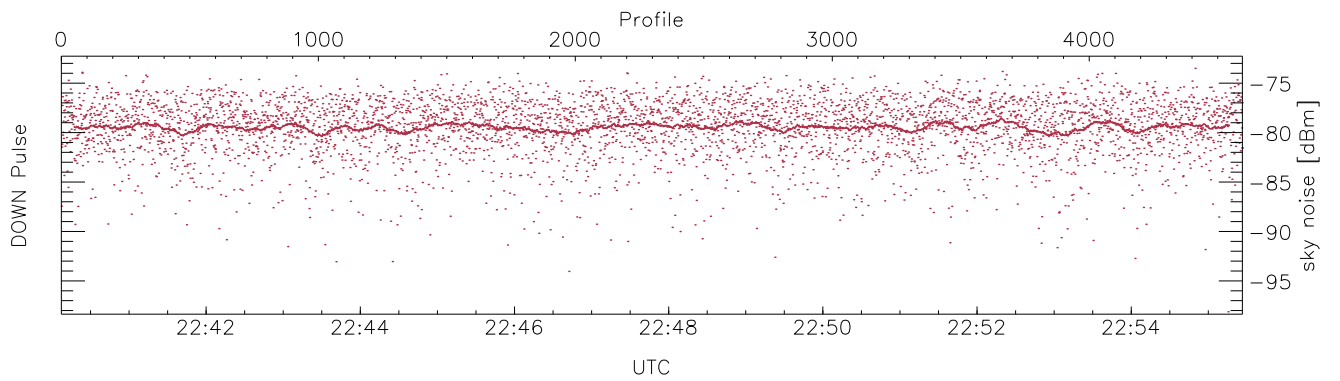
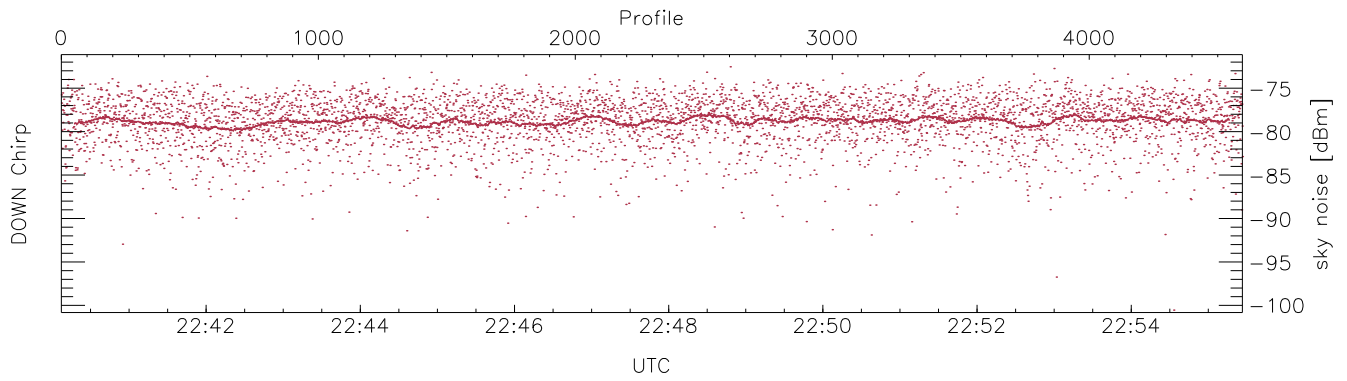
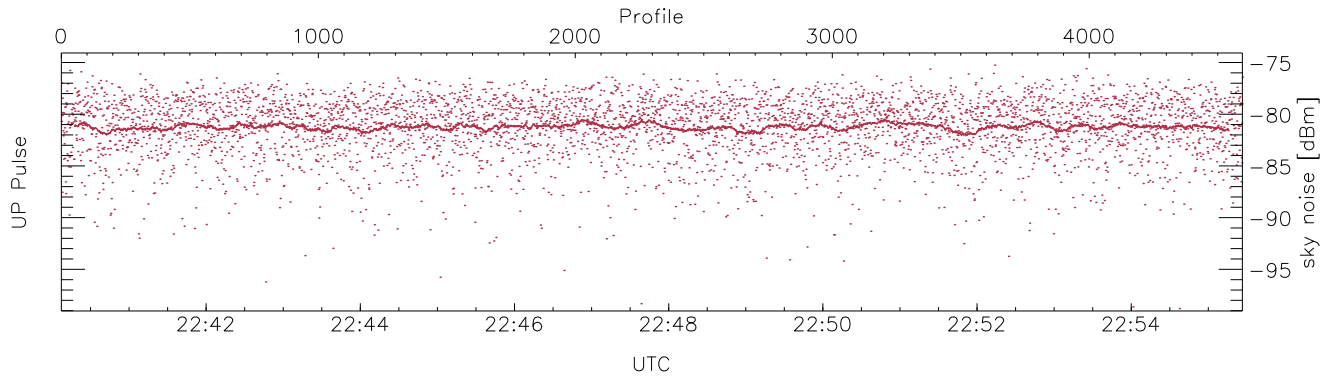
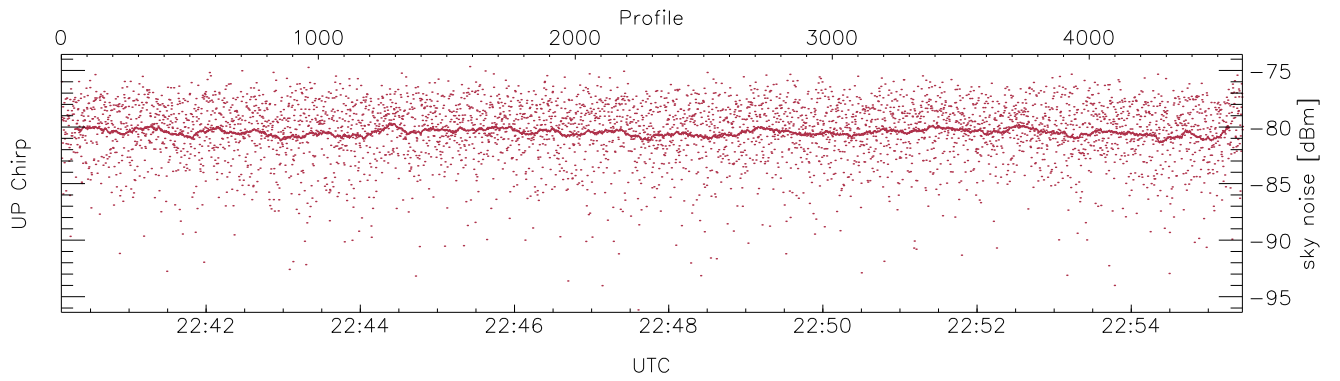
KPR SPP Last range gate power measurements: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-64.64	-63.89	-64.24	-64.24	-80.75
UP Pulse(dBm)	-65.36	-64.67	-65.00	-65.00	-81.43
DOWN Chirp(dBm)	-63.22	-62.17	-62.60	-62.58	-77.08
DOWN Pulse(dBm)	-63.83	-62.75	-63.16	-63.14	-77.51



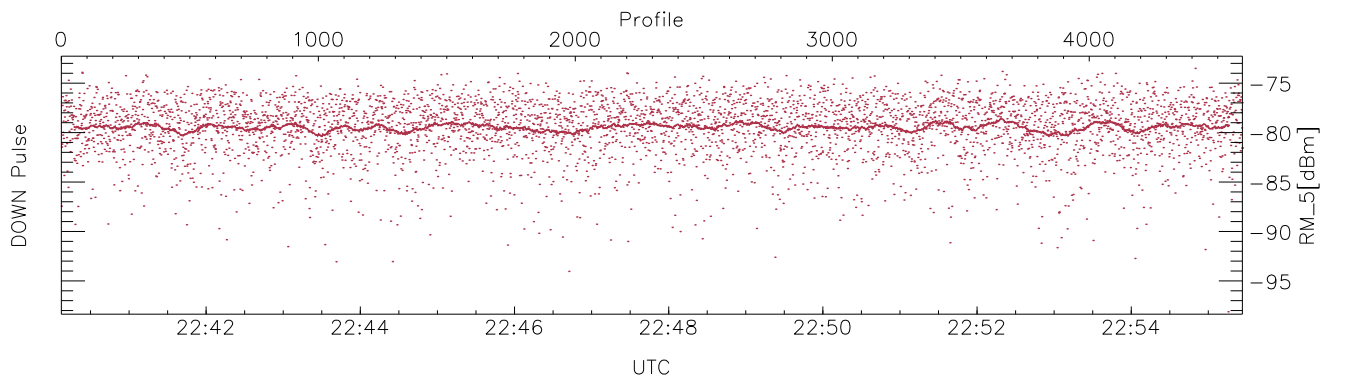
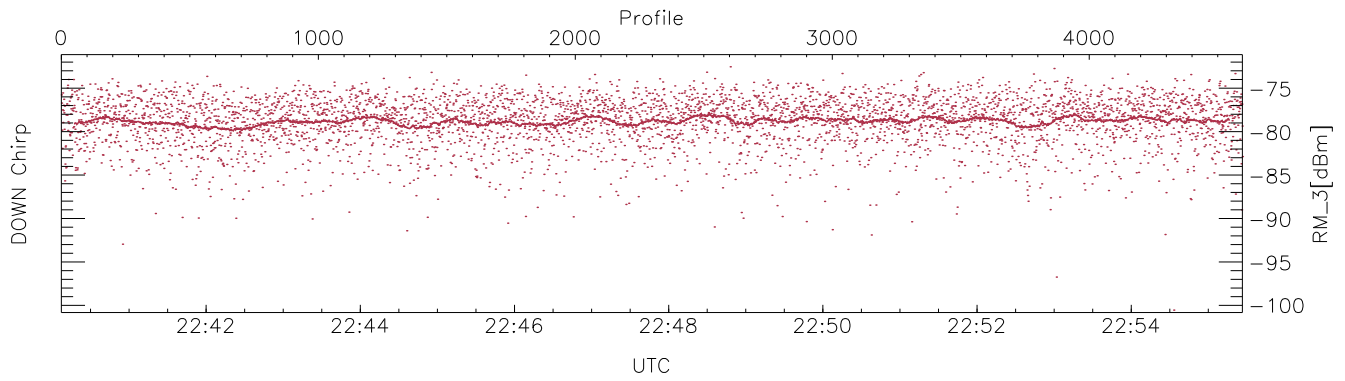
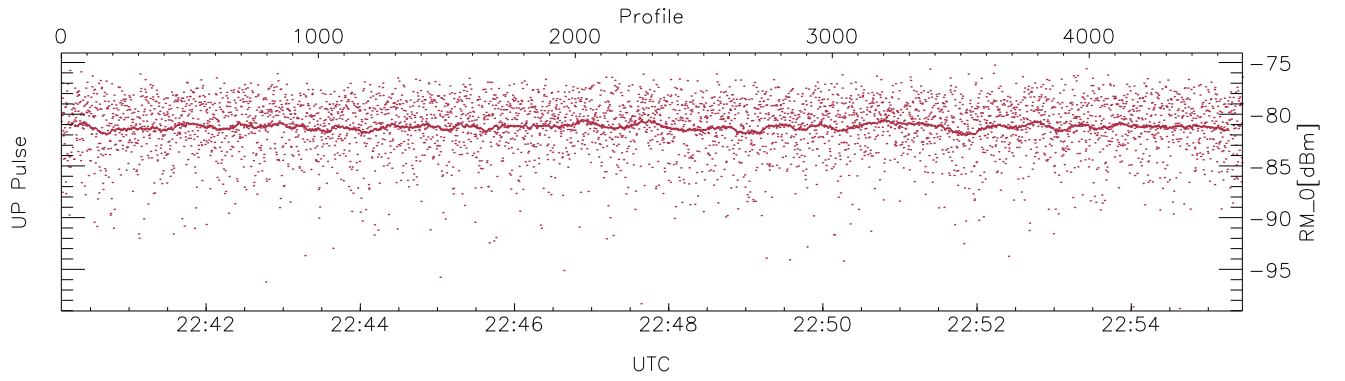
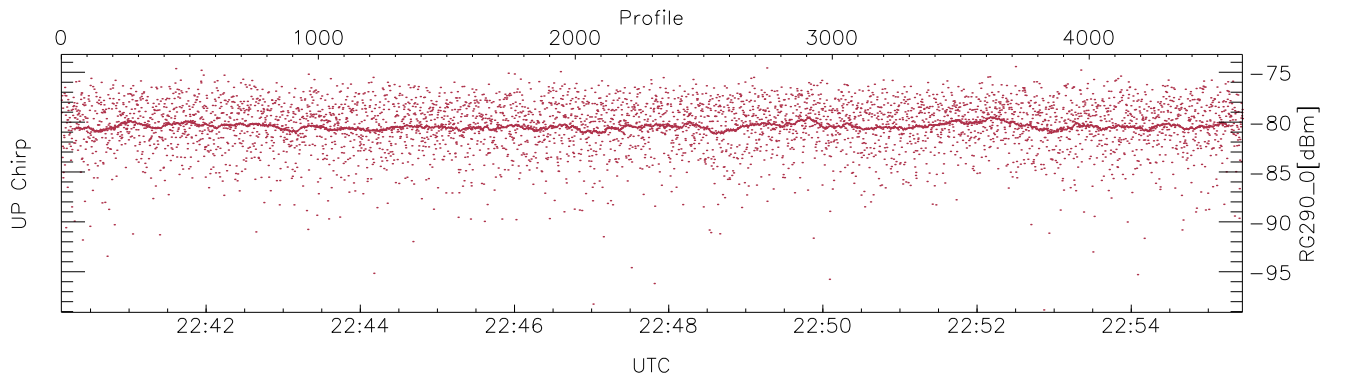
KPR SPP "Best" noise power measurements (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RG290_0	-64.56	-63.90	-64.24	-64.24	-80.77
UP_P_RM_0	-65.36	-64.67	-65.00	-65.00	-81.43
DOWN_C_RM_3	-63.22	-62.17	-62.60	-62.58	-77.09
DOWN_P_RM_5	-63.83	-62.75	-63.16	-63.14	-77.51



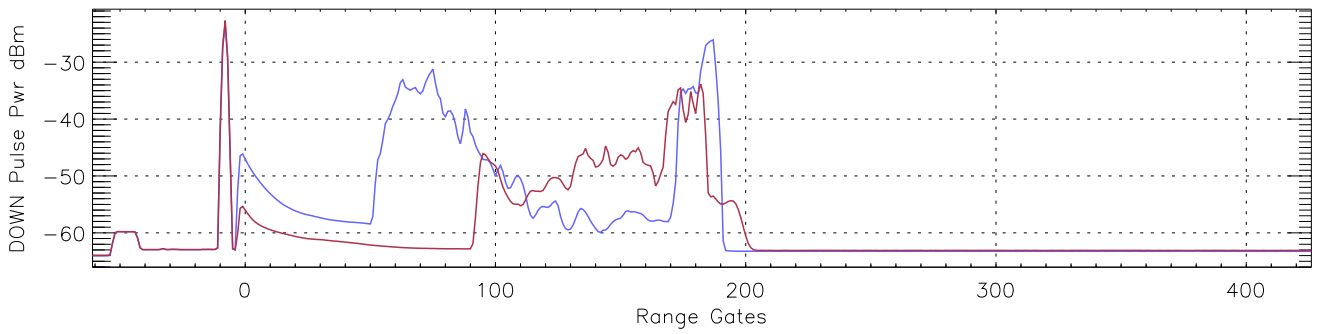
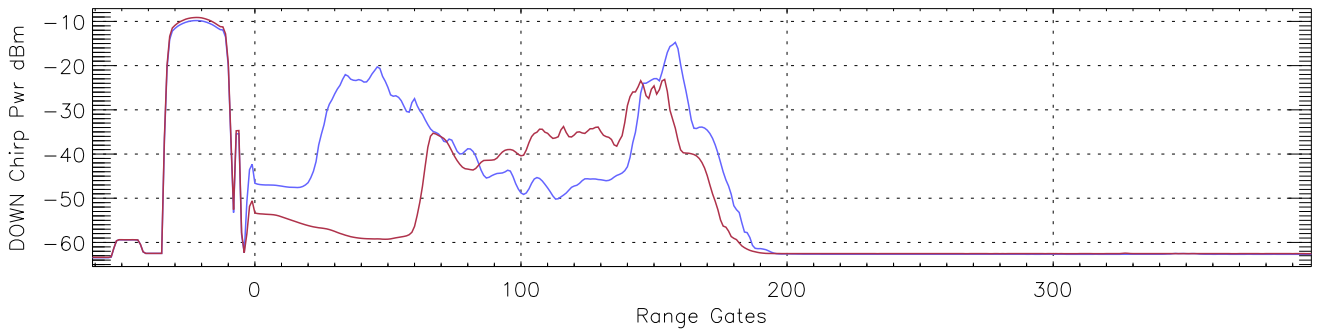
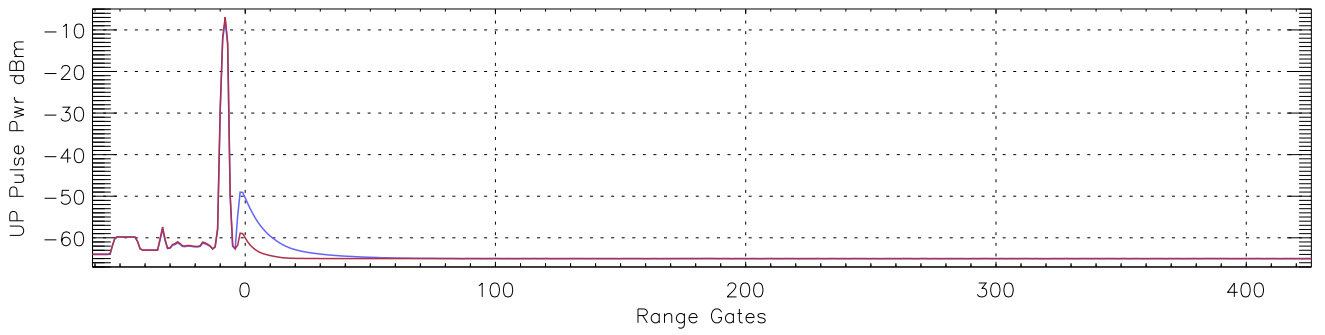
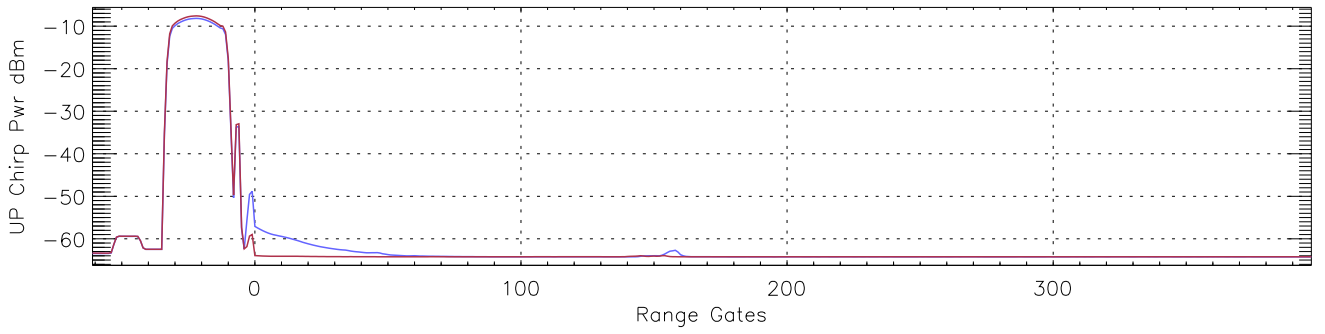
KPR SPP Last range gate PPMAG: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-96.17	-74.66	-79.72	-79.98	-82.50
UP Pulse(dBm)	-98.79	-75.26	-80.49	-80.72	-83.30
DOWN Chirp(dBm)	-100.55	-72.53	-78.10	-78.38	-80.91
DOWN Pulse(dBm)	-98.12	-73.51	-78.72	-79.00	-81.46

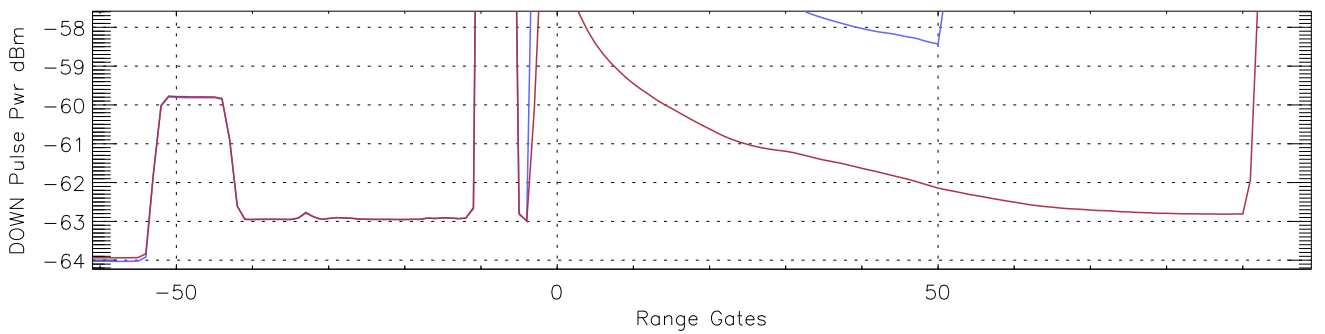
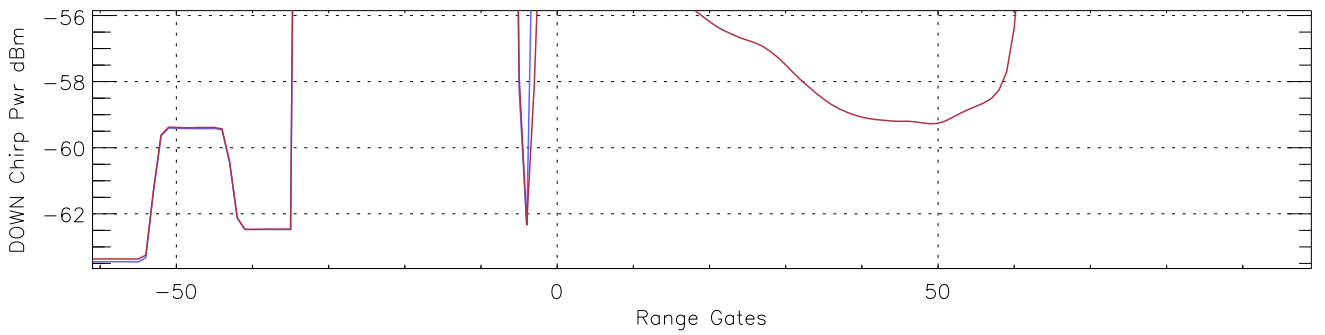
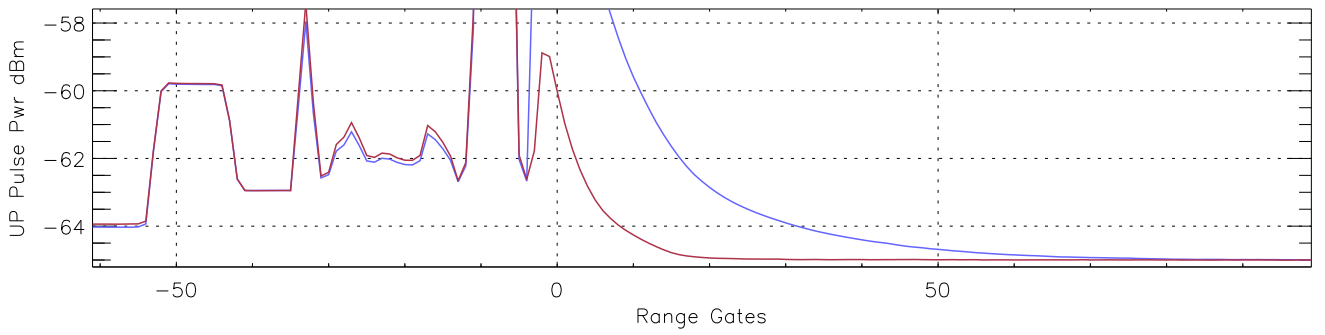
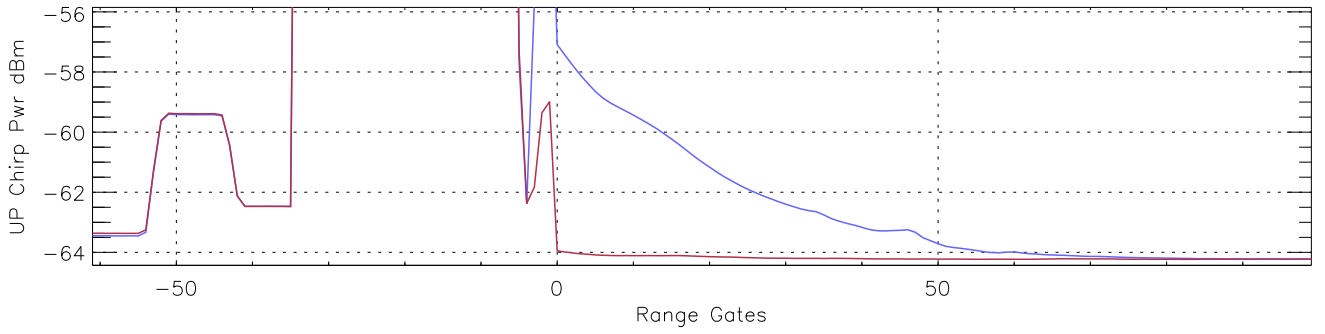


KPR SPP "Best" PPMAG noise (dBm):

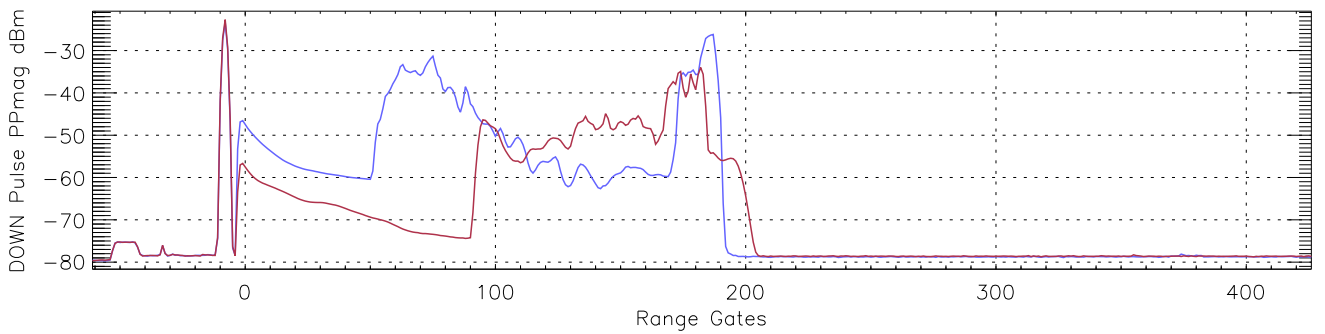
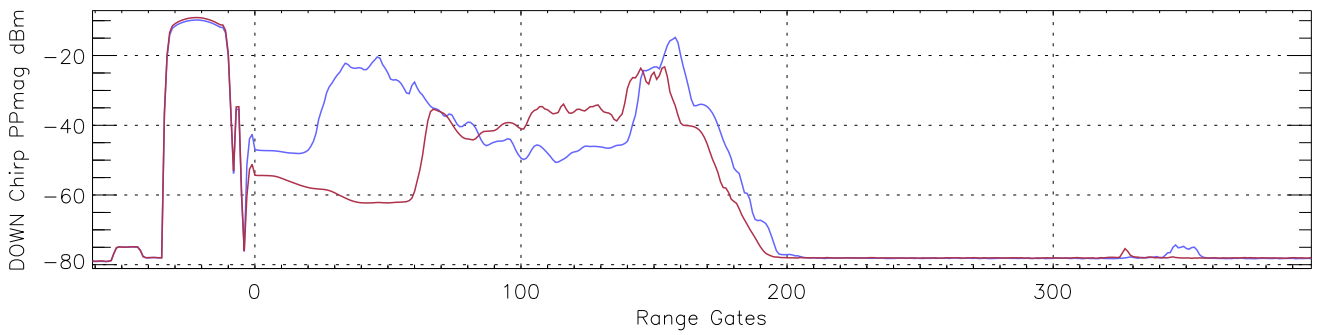
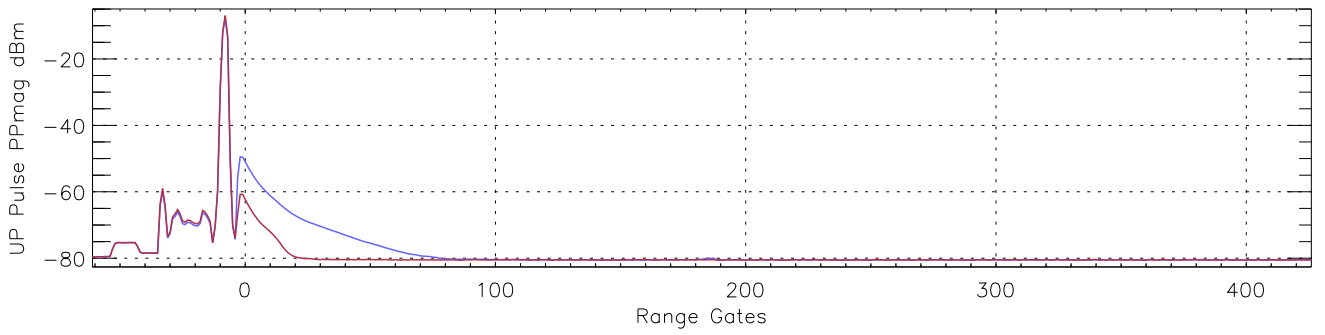
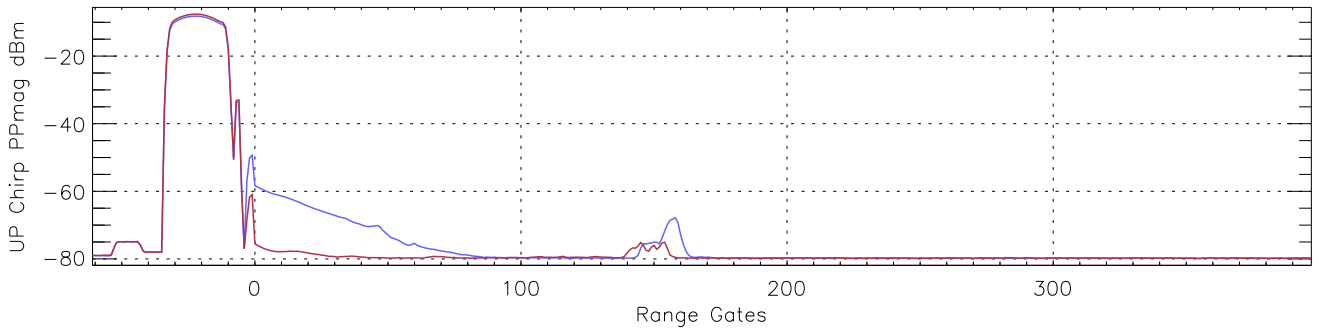
	Min	Max	Mean	Median	StDev
UP_C_RG290_0	-98.83	-74.43	-79.74	-80.05	-82.58
UP_P_RM_0	-98.79	-75.26	-80.49	-80.72	-83.30
DOWN_C_RM_3	-100.55	-72.53	-78.10	-78.38	-80.91
DOWN_P_RM_5	-98.12	-73.51	-78.72	-79.00	-81.46



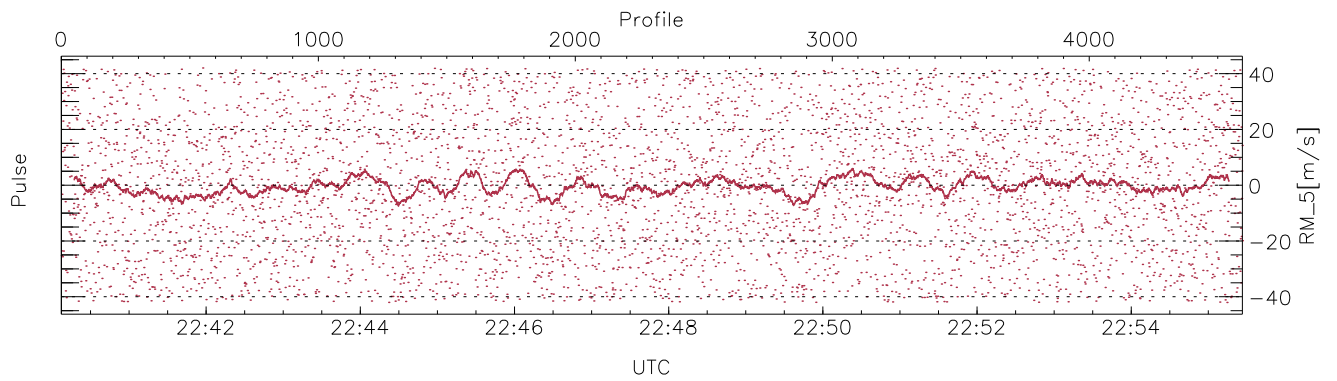
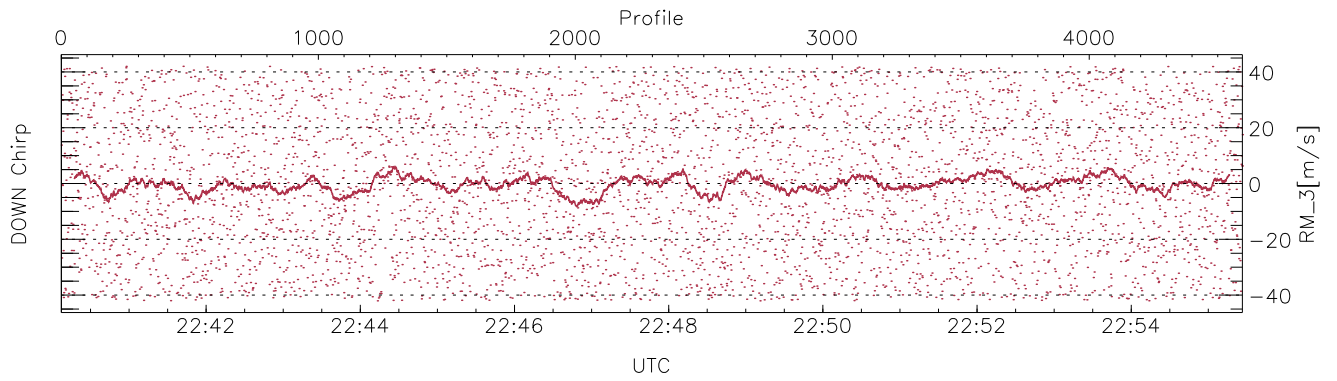
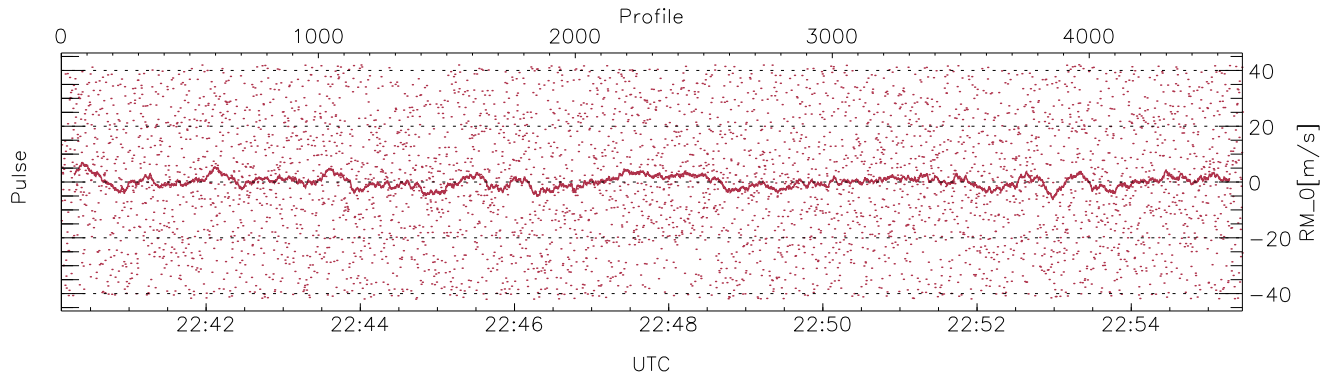
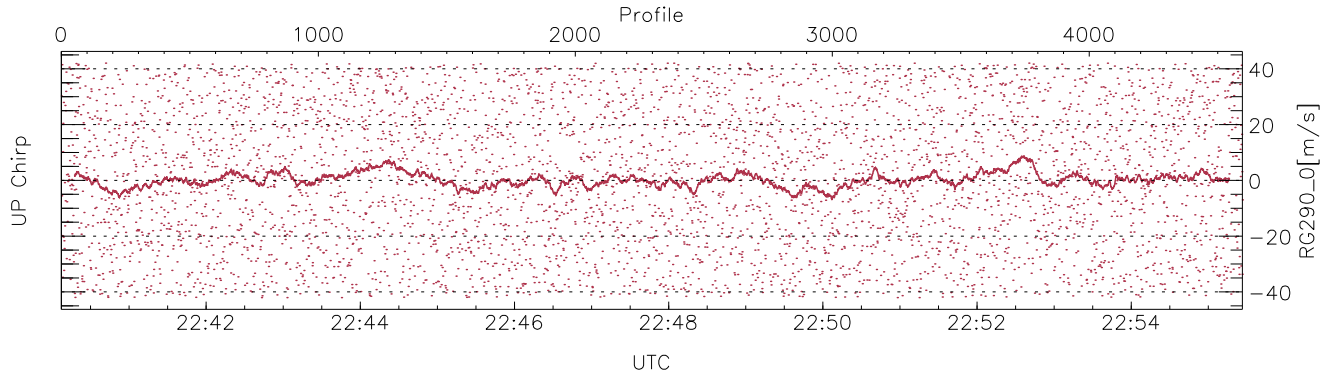
KPR SPP Averaged Received power for all recorded gates
blue: 224007-224746, 2299 profiles averaged
red: 224746-225527, 2299 profiles averaged



KPR SPP Averaged Power for neg. gates & up to 100 gates
blue: 224007-224746, 2299 profiles averaged
red: 224746-225527, 2299 profiles averaged

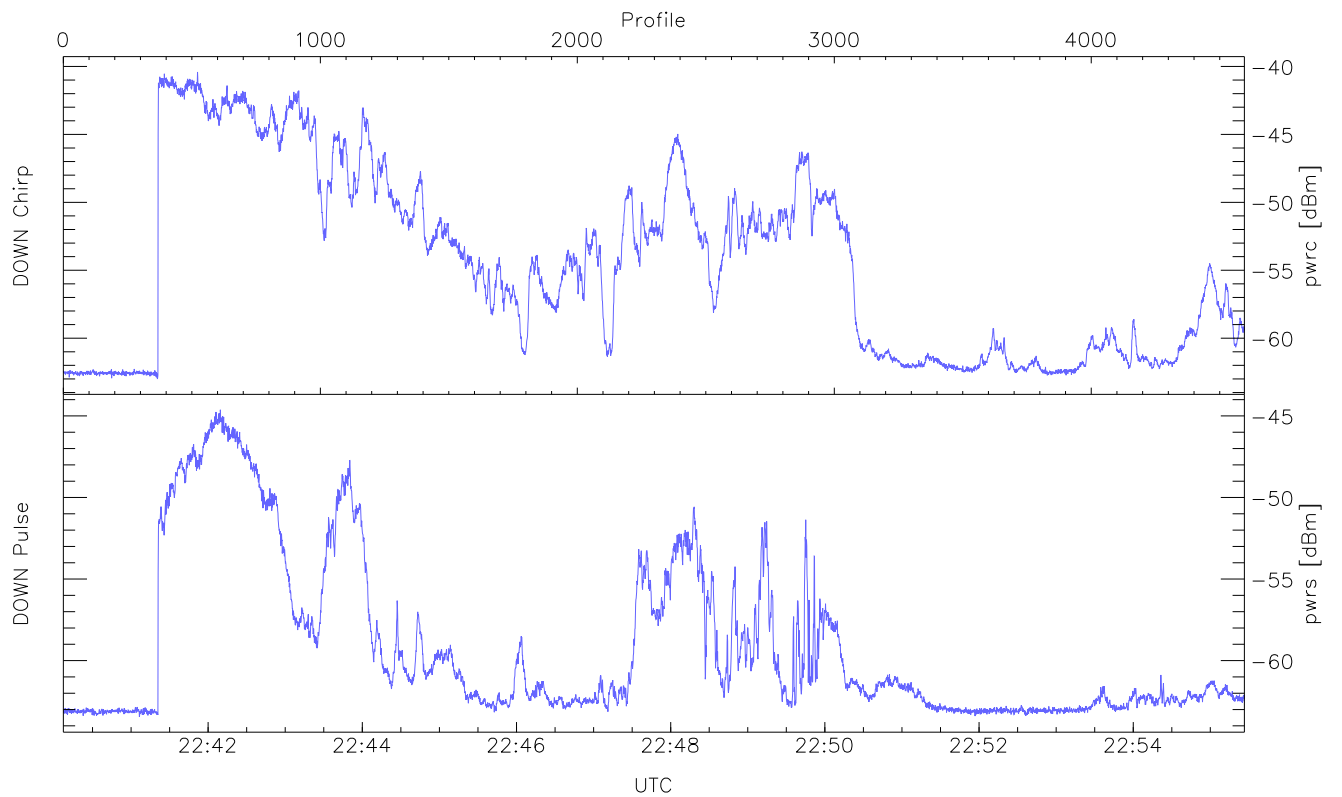
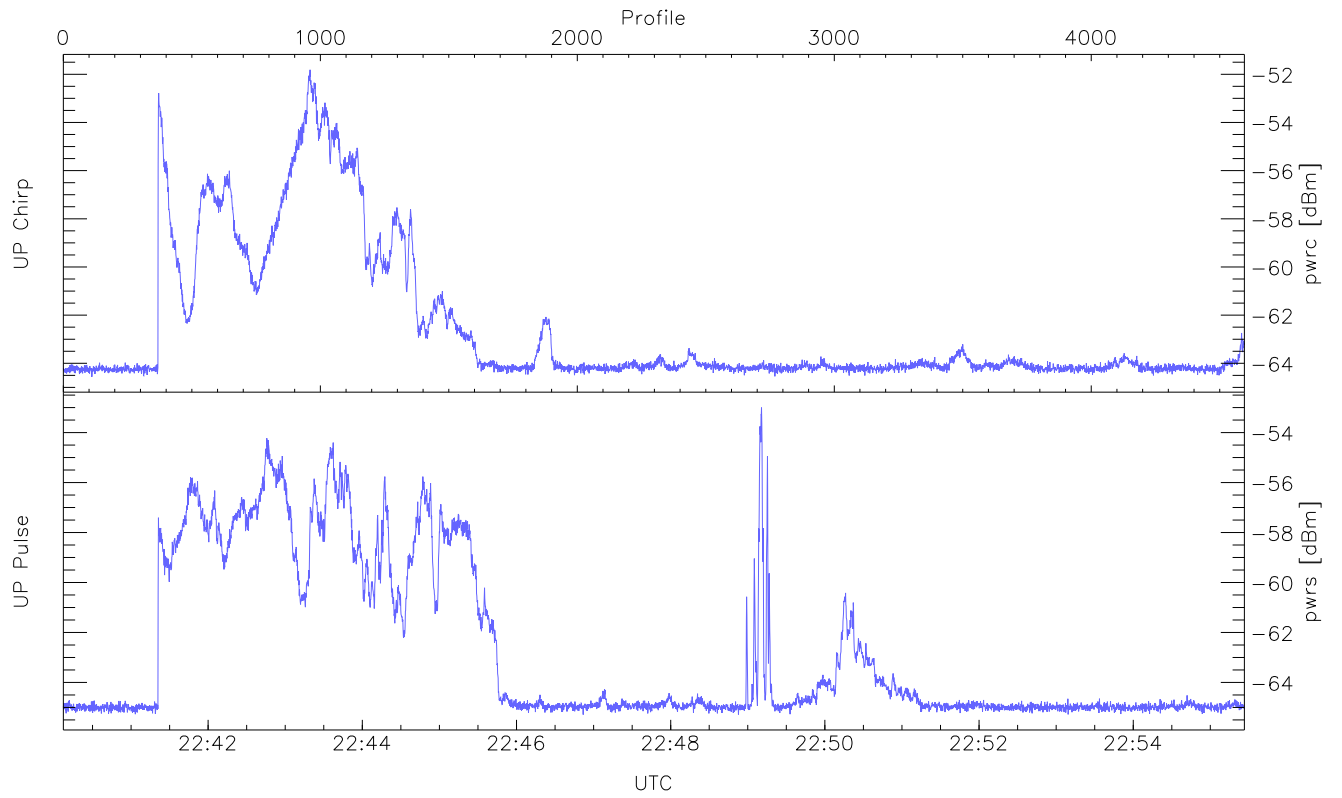


KPR SPP Averaged PP magnitude for all recorded gates
blue: 224007-224746, 2299 profiles averaged
red: 224746-225527, 2299 profiles averaged



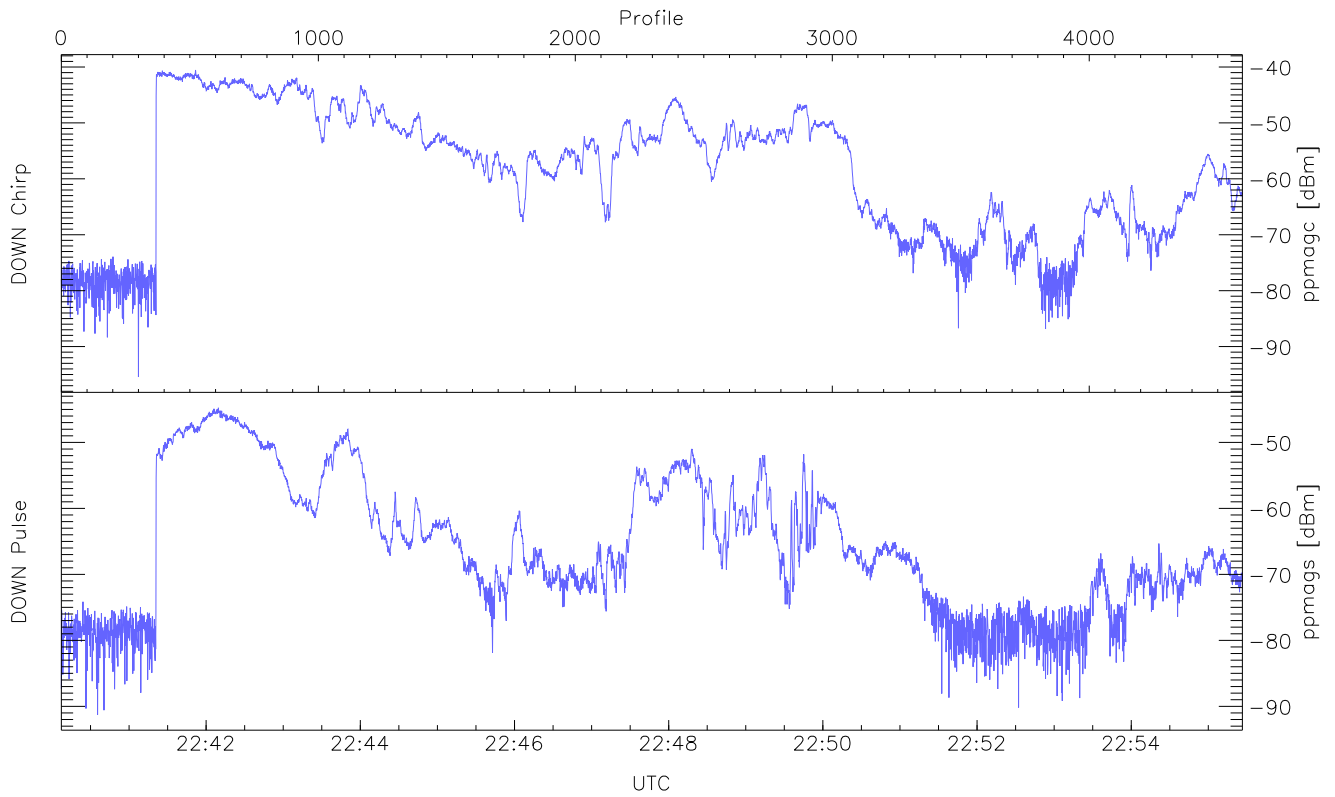
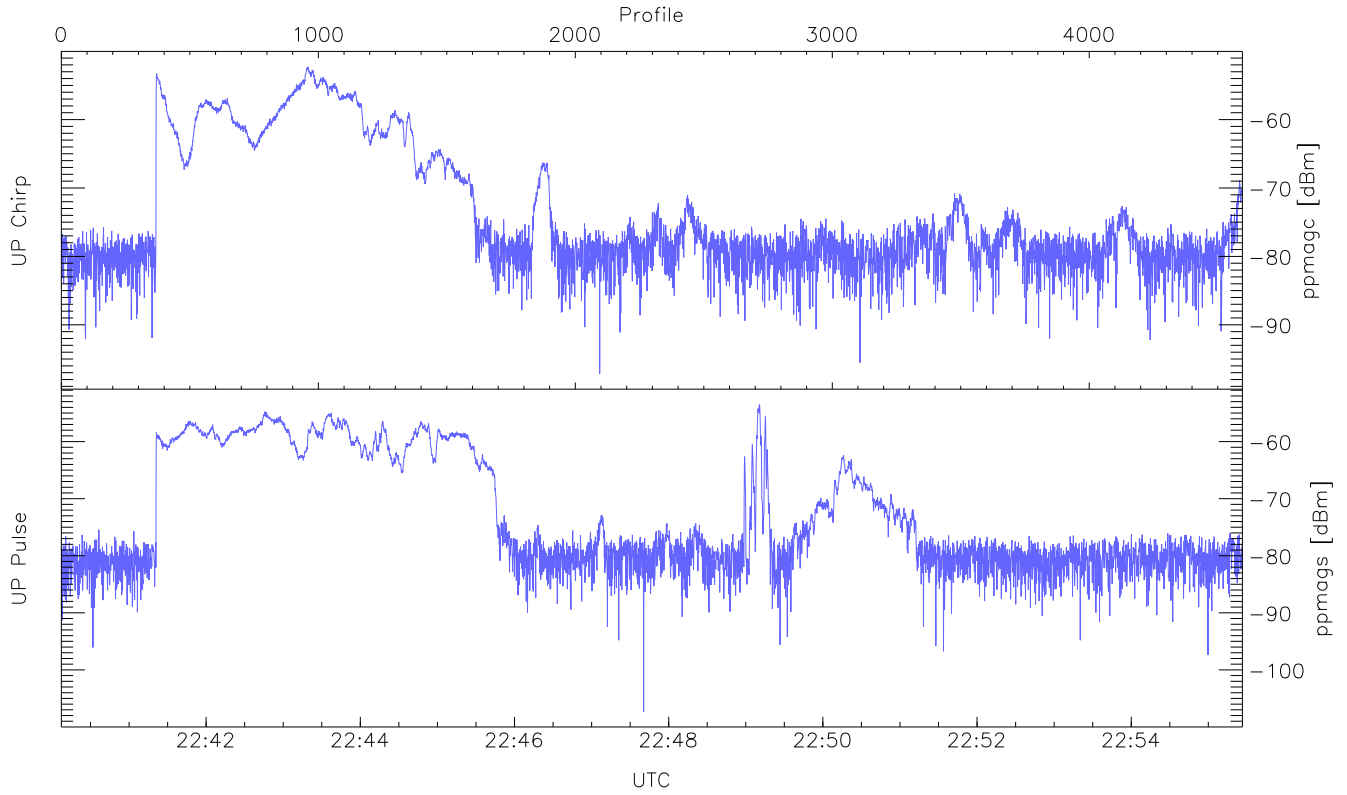
KPR SPP "Best" PPVEL noise (m/s):

	Min	Max	Mean	Median	StDev
UP_C_RG290_0	-42.06	42.04	0.20	0.22	24.34
UP_P_RM_0	-42.01	42.05	0.09	0.12	22.96
DOWN_C_RM_3	-42.06	42.01	-0.32	-0.58	24.19
DOWN_P_RM_5	-42.04	42.05	-0.43	-0.66	23.25



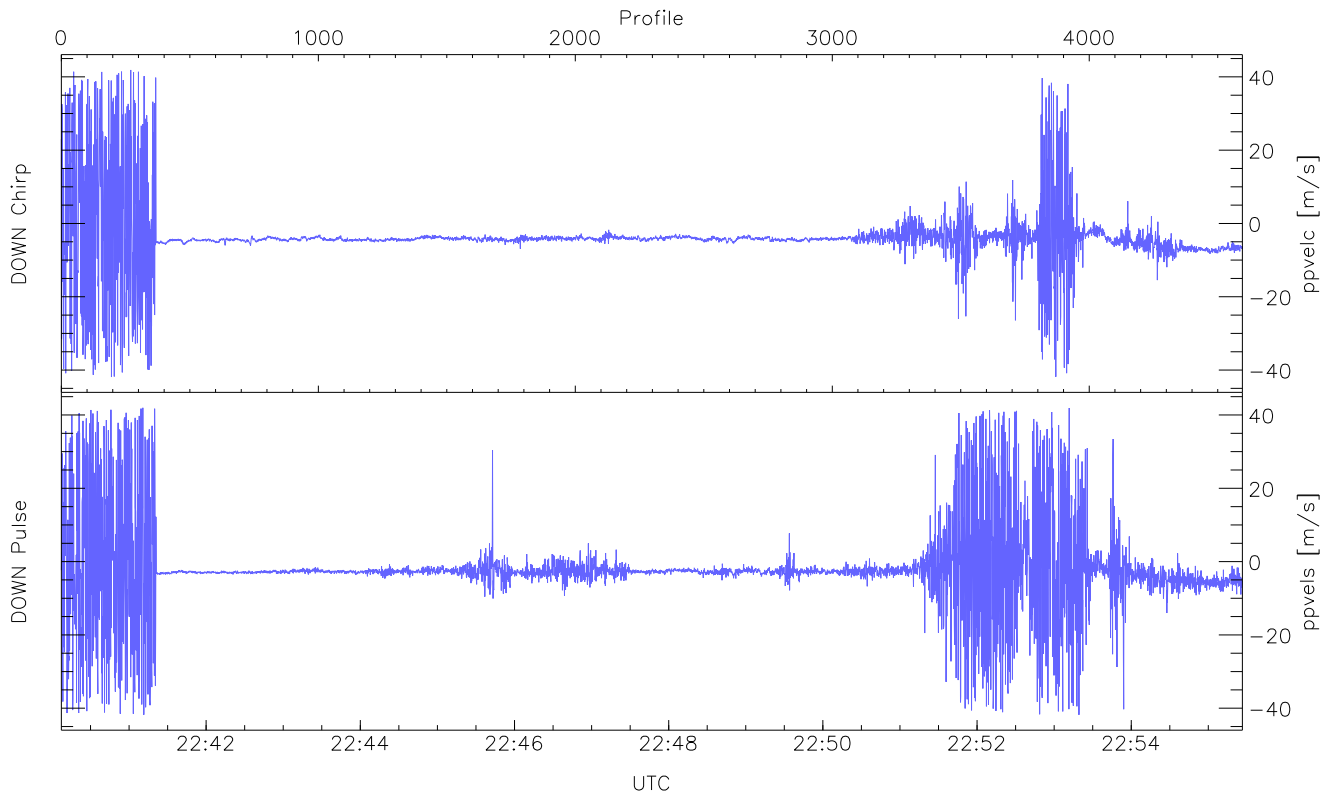
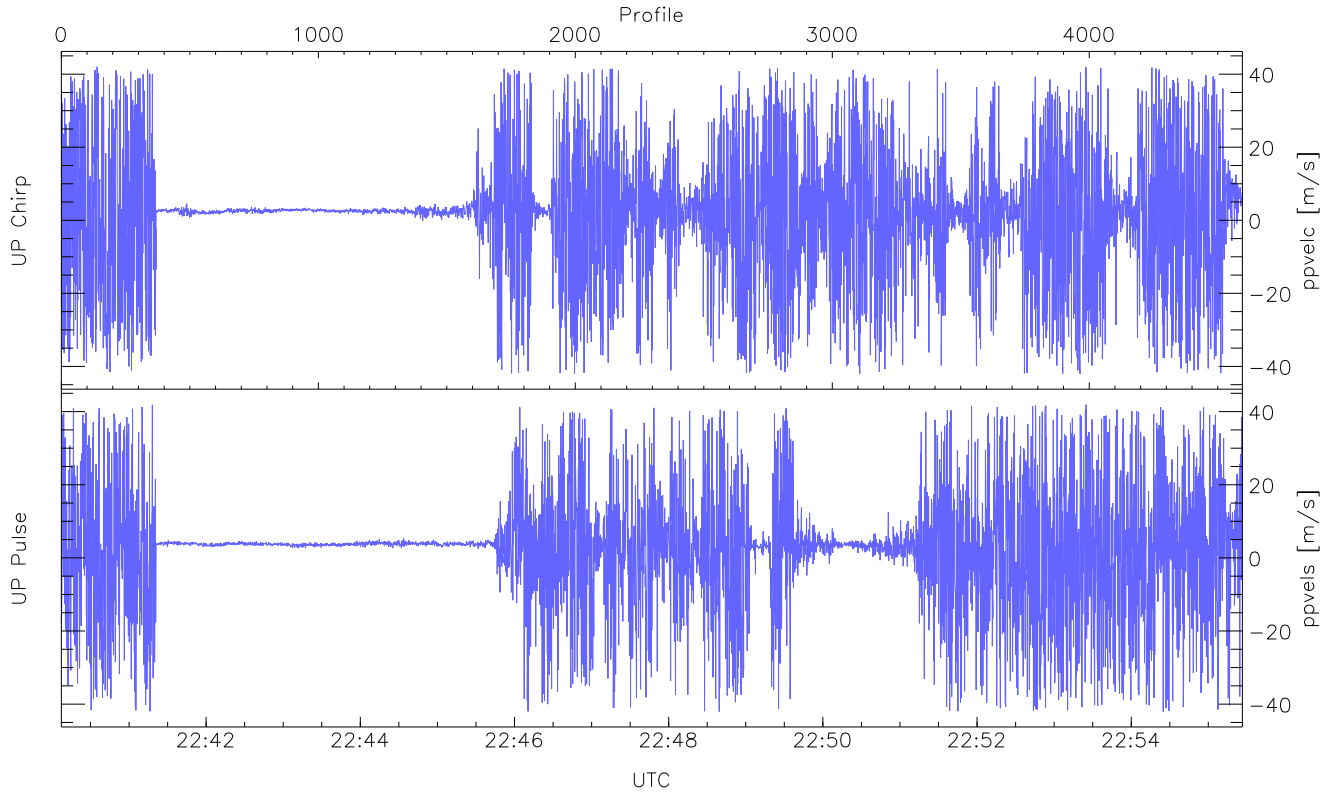
KPR SPP Received Power for Chirp Range gate 10 (686.2 m)
 KPR SPP Received Power for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-64.56	-51.81	-61.17
UP Pulse(dBm)	-65.29	-53.00	-61.33
DOWN Chirp(dBm)	-63.01	-40.41	-49.47
DOWN Pulse(dBm)	-63.45	-44.62	-55.22



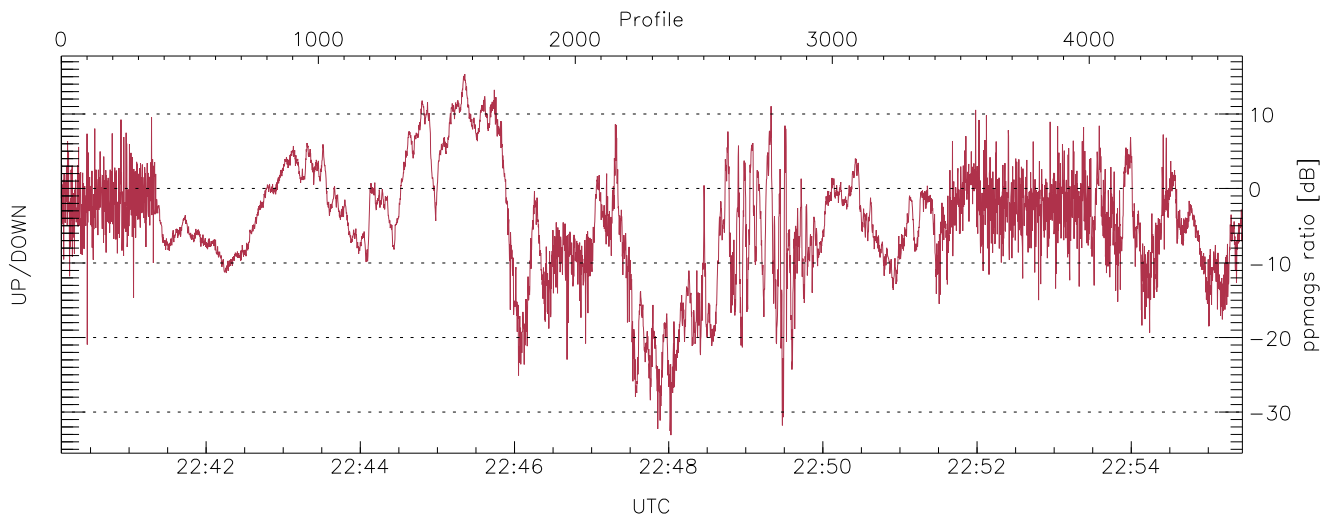
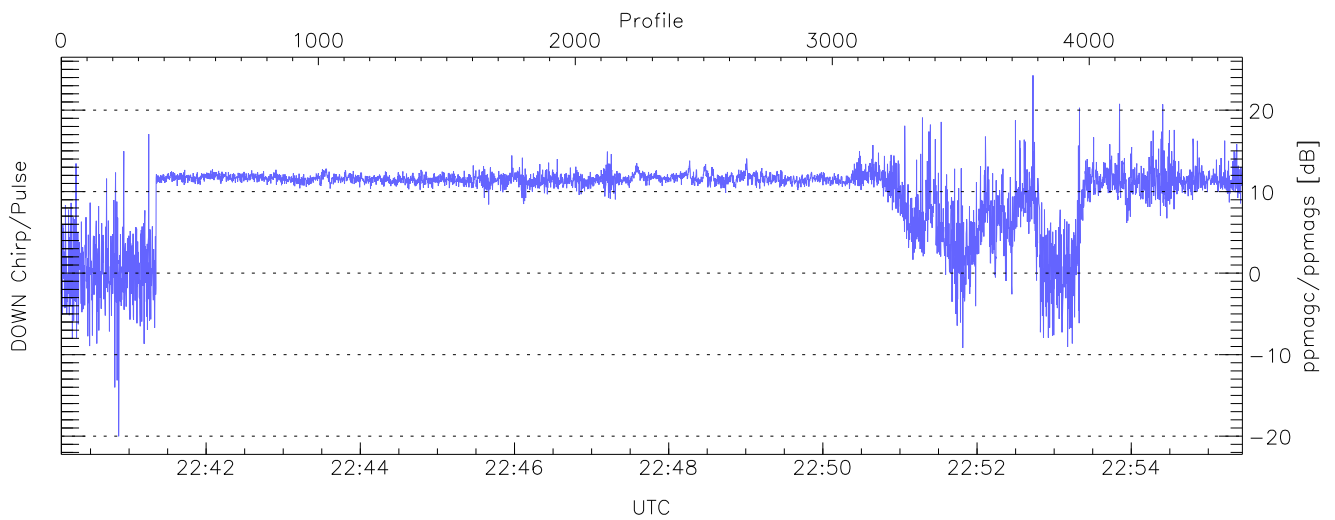
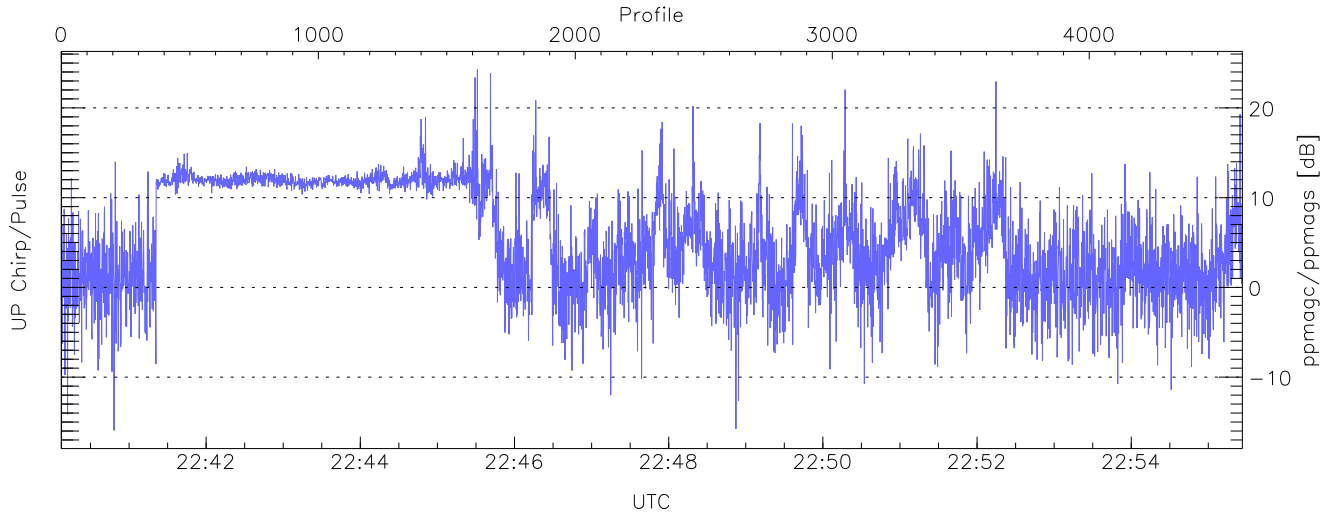
KPR SPP PPMAG for Chirp Range gate 10 (686.2 m)
 KPR SPP PPMAG for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-97.17	-52.28	-64.30
UP Pulse(dBm)	-107.31	-53.50	-63.85
DOWN Chirp(dBm)	-95.45	-40.53	-49.92
DOWN Pulse(dBm)	-91.28	-44.74	-56.09



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)	-42.03	42.03	1.52
UP Pulse(m/s)	-42.05	41.94	2.25
DOWN Chirp(m/s)	-41.90	41.88	-3.87
DOWN Pulse(m/s)	-41.80	41.98	-2.29



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

	Min	Max	Mean
UP Chirp/Pulse(dBm)	-15.95	24.28	8.70
DOWN Chirp/Pulse(dBm)	-20.02	24.28	10.90
UP/DOWN Ratio at Range 135.8 m			
	Min	Max	Mean
UP/DOWN(dB)	-33.09	15.35	1.08