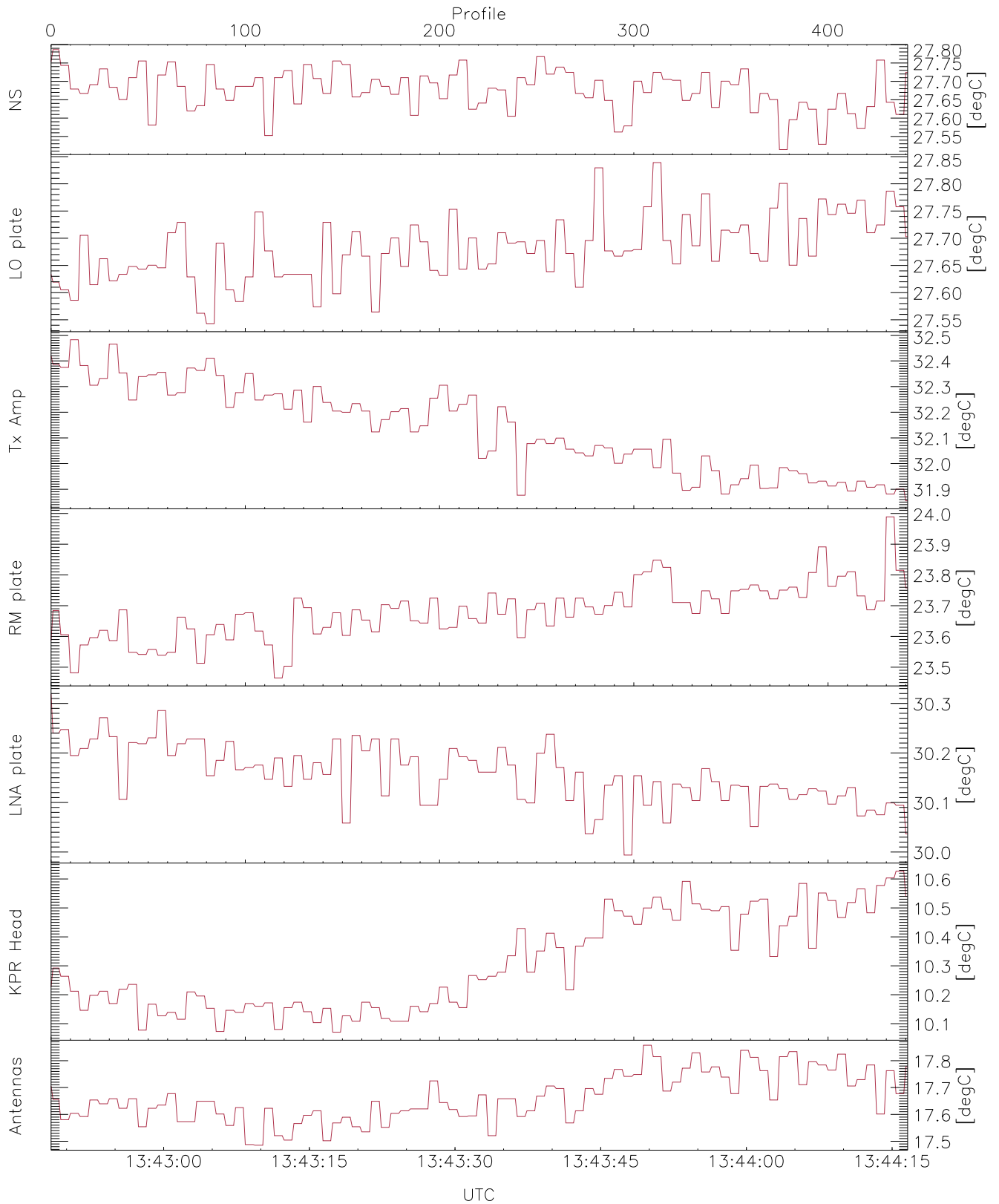


KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF  
 UTC: 13:42:48-13:44:17, TimeCor: 0.00s, Dur: 88.20s  
 TimeInt(min,max,mn,std): 190.8,209.2,200.0,0.8 ms; PPS: 5.0  
 NumRec(r/t): 442/442, 0-441/13:42:48-13:44:17  
 AcqTime(req,actual): 200.0,200.0 ms, Data Rate: 187.8 KB/s  
 Pulse: 247 ns, Chirp: 2.47 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, 6502 m, Gates: 399  
 RangeGateSampling: 15.0 m, Aspect: 0.8

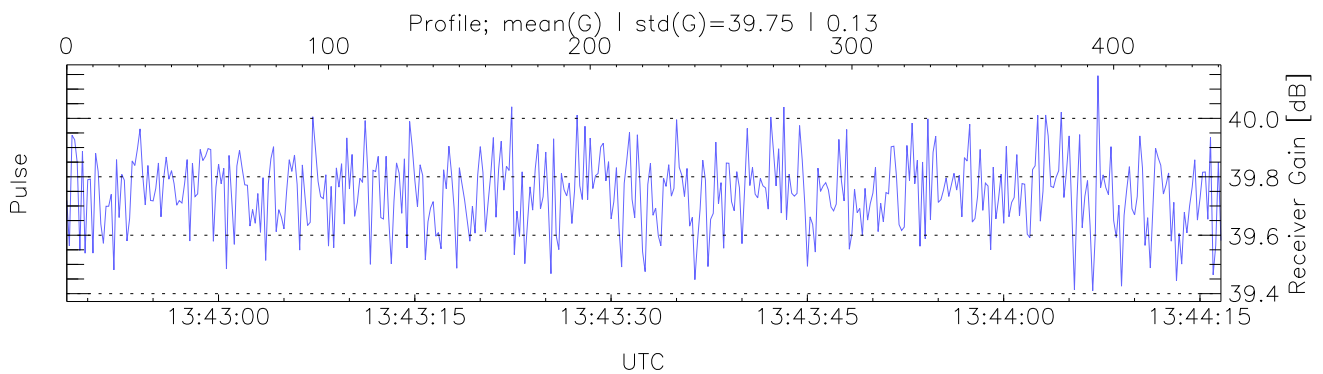
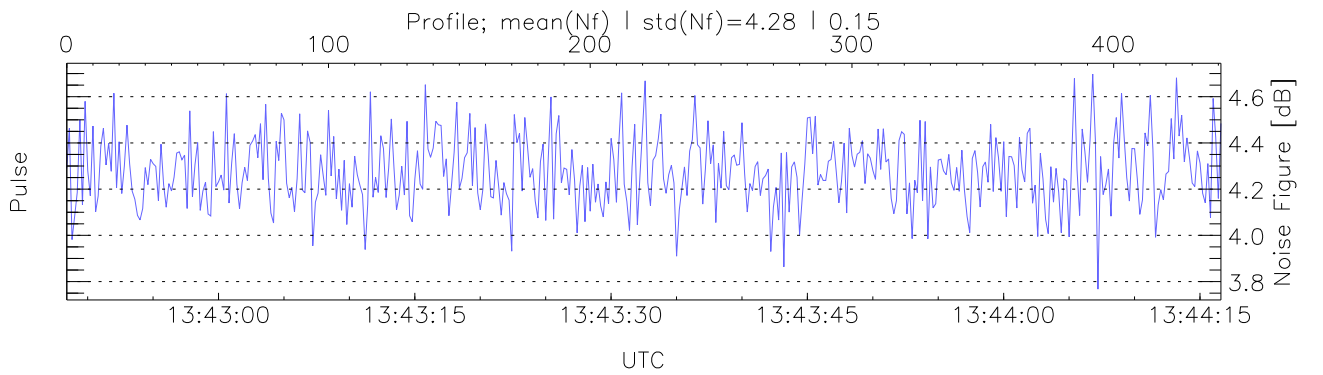
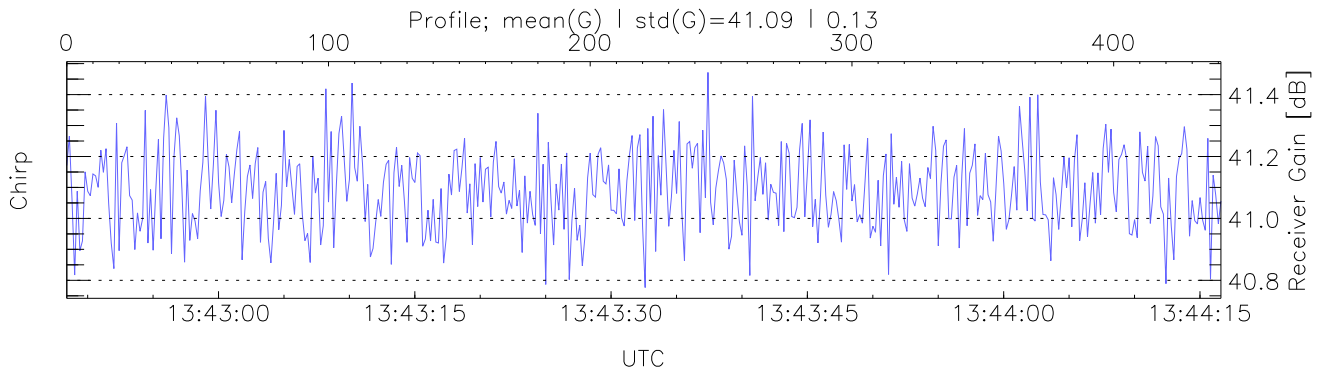
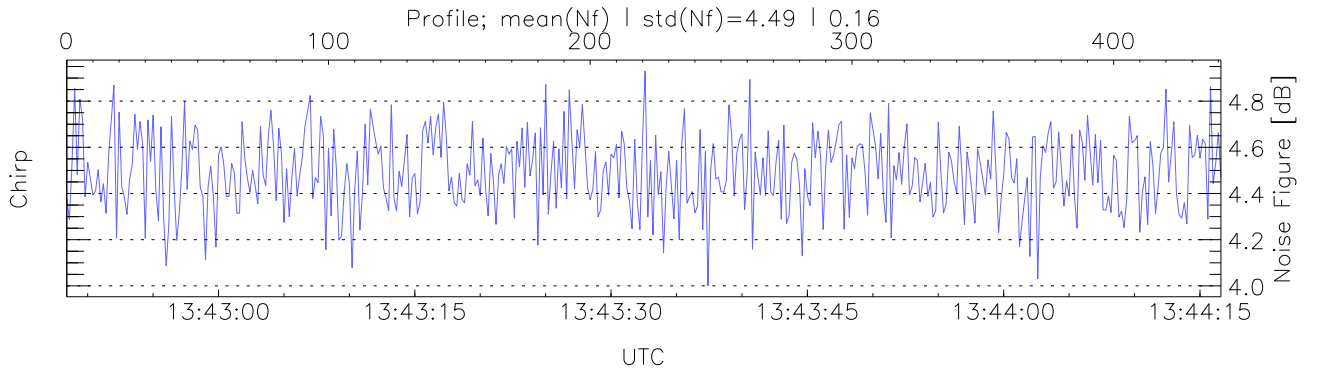


KPR SPP Temperatures, Power Supplies, PLO lock:

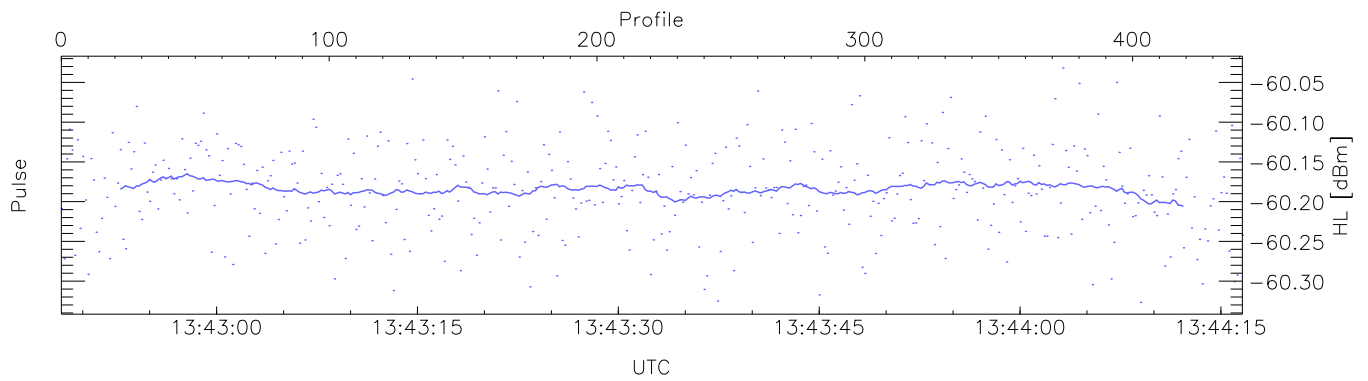
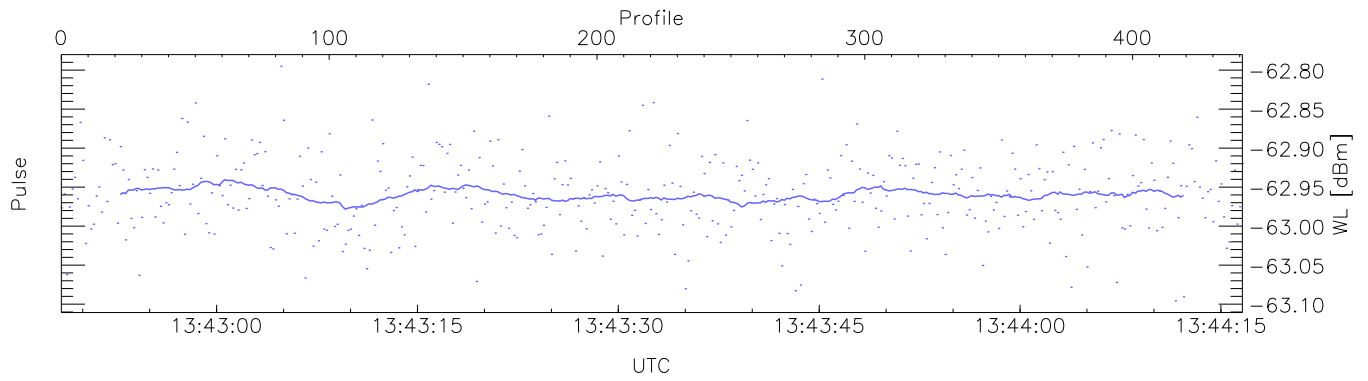
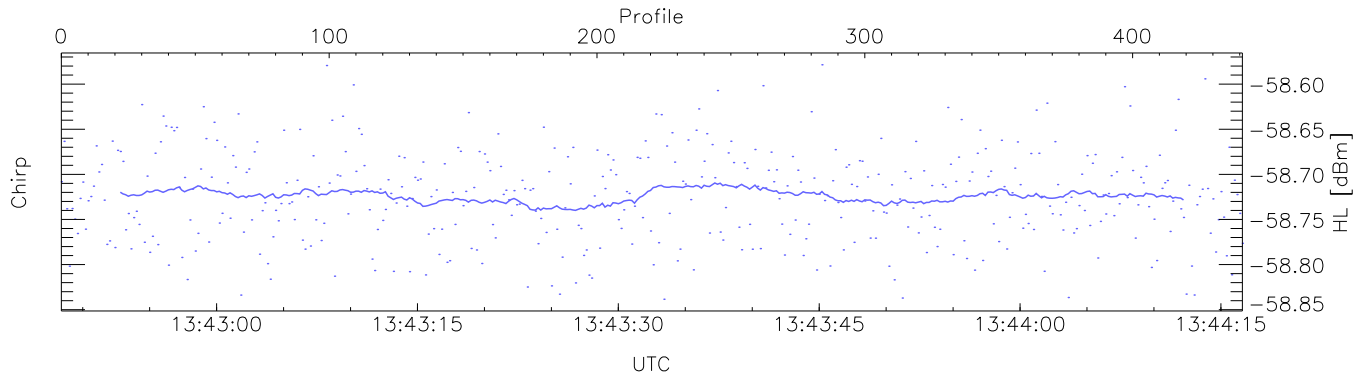
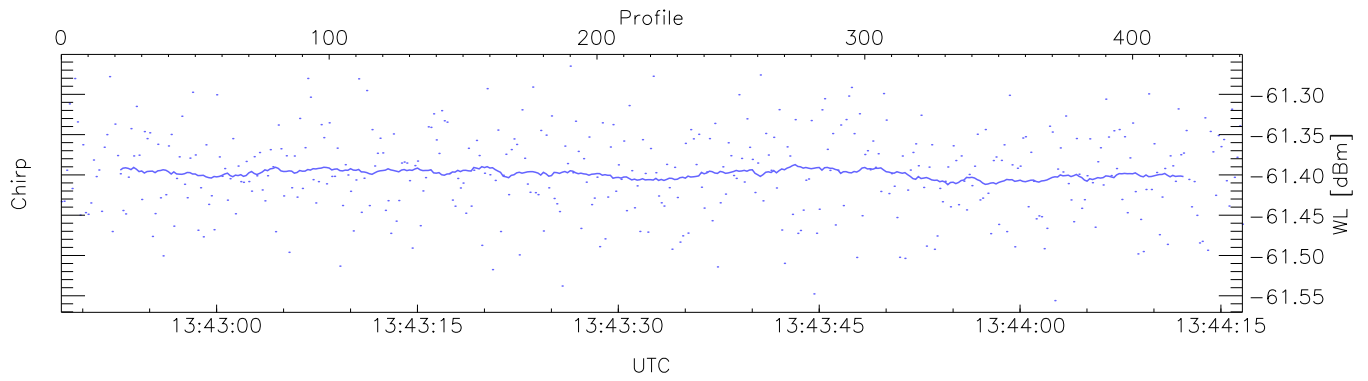
mintempC: 27.5, 27.5, 31.9, 23.5, 30.0, 10.1, 17.5  
 maxtempC: 27.8, 27.8, 32.5, 24.0, 30.3, 10.6, 17.9

minVDC: 26.51, 11.73, 7.85, 5.21  
 maxVDC: 27.59, 11.76, 7.87, 5.23

PLO(3.84,15.84 GHz) unlocked: None

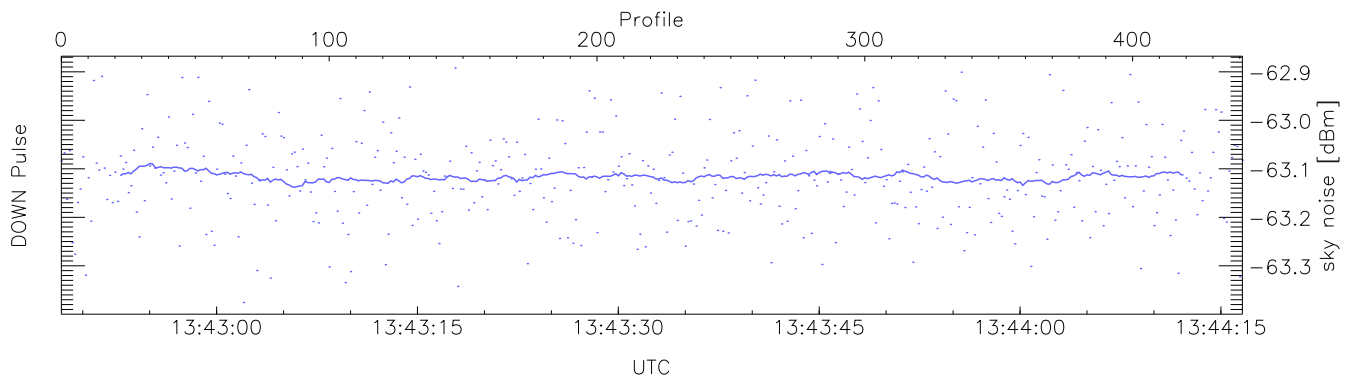
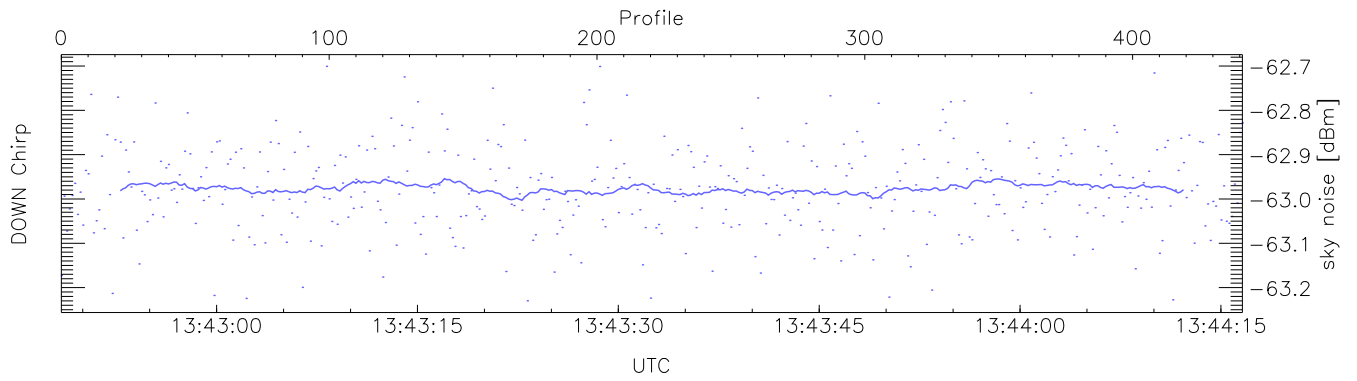
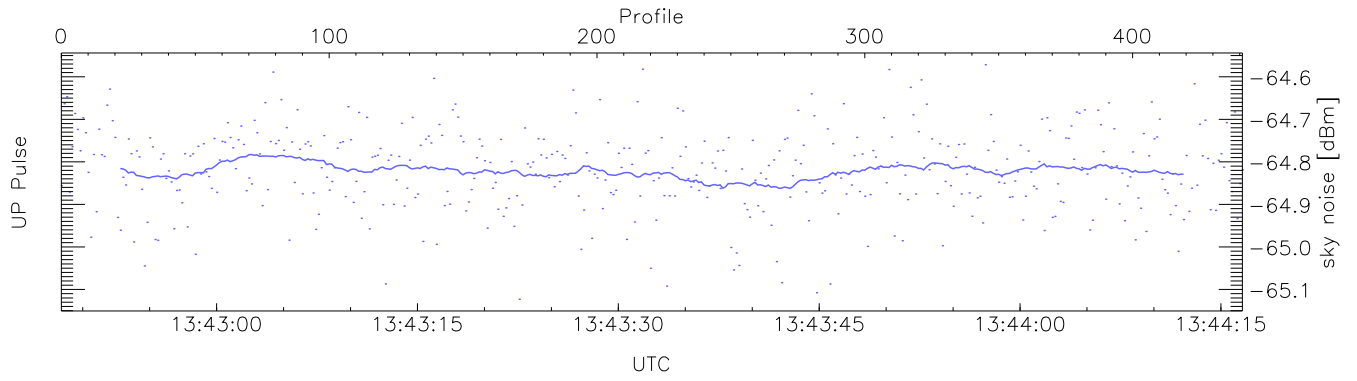
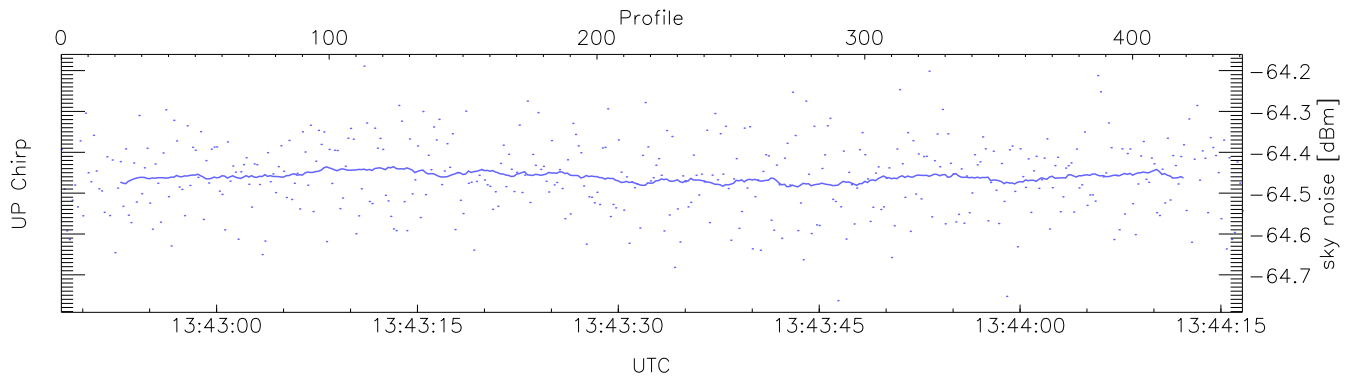


KPR SPP Receiver Gain and Noise Figure



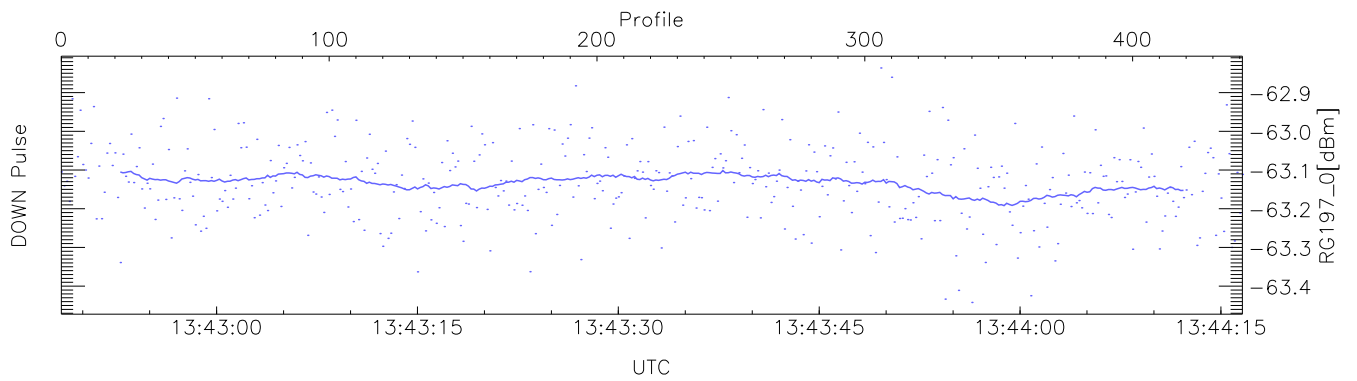
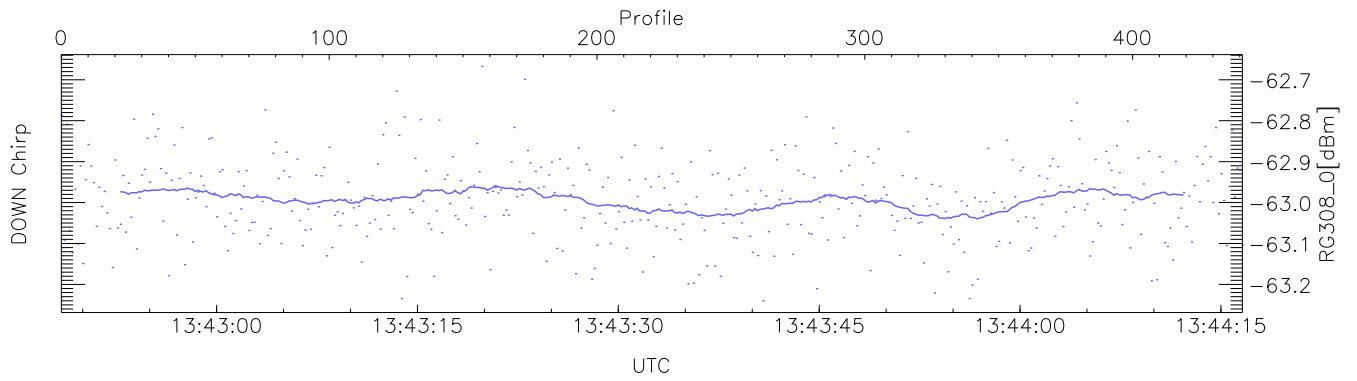
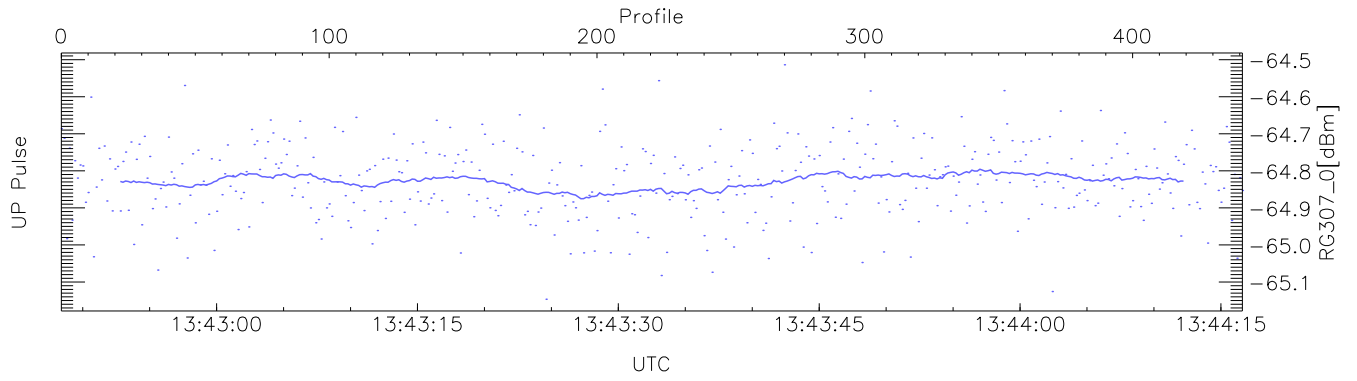
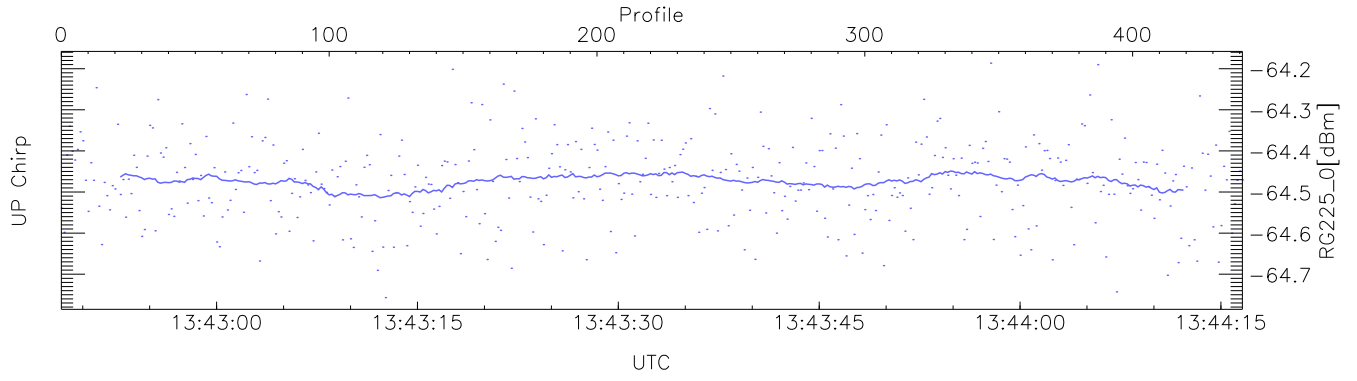
KPR SPP Receiver Noise Source Warm and Hot Measurements

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-61.56	-61.27	-61.40	-61.40	-80.60
Chirp(HL [dBm])	-58.84	-58.58	-58.72	-58.72	-78.08
Pulse(WL [dBm])	-63.10	-62.80	-62.96	-62.96	-82.57
Pulse(HL [dBm])	-60.33	-60.03	-60.19	-60.18	-79.18



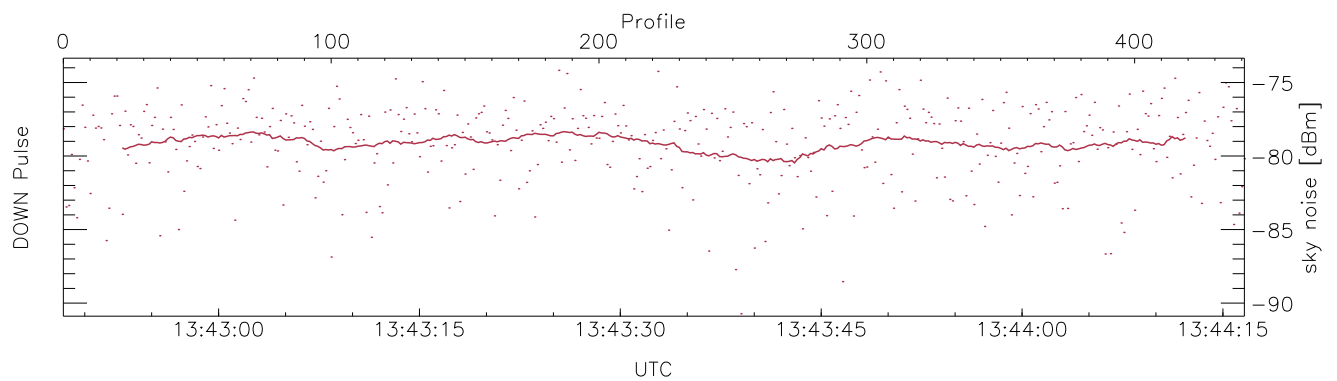
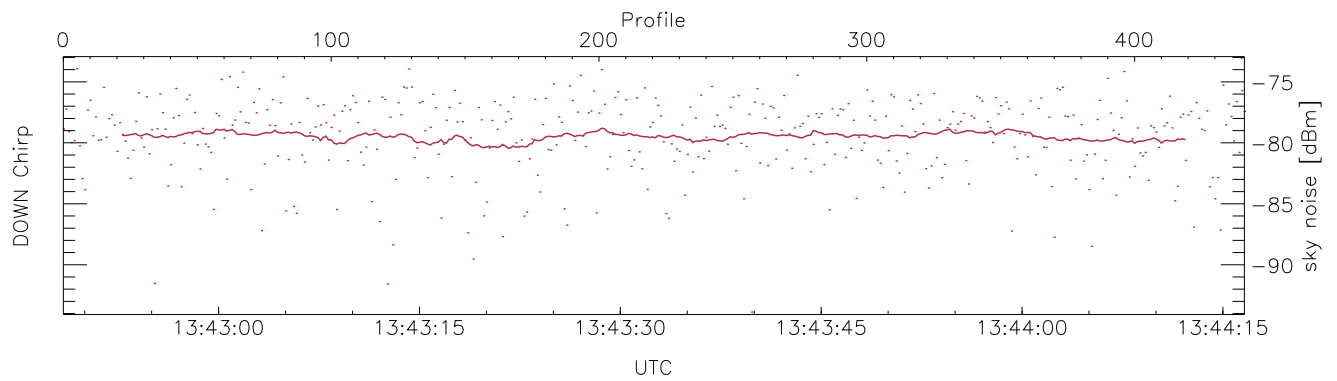
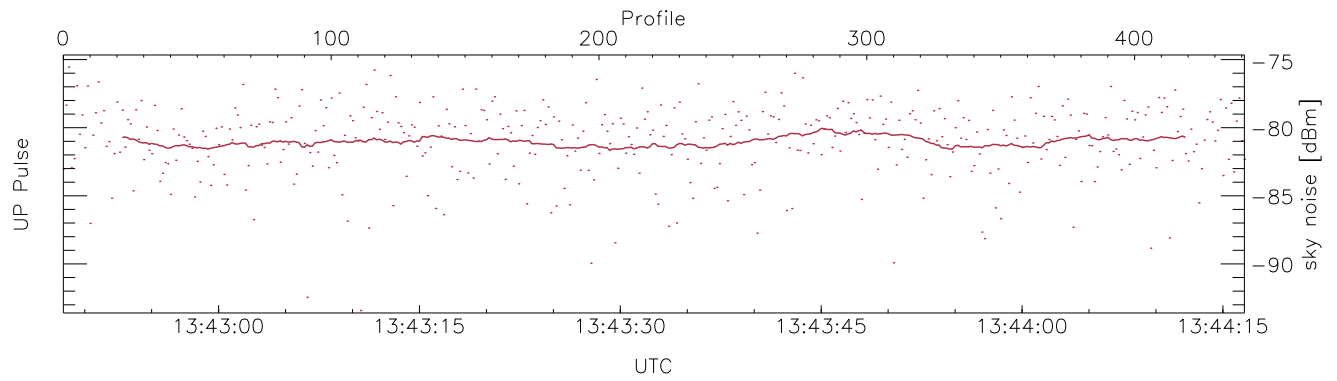
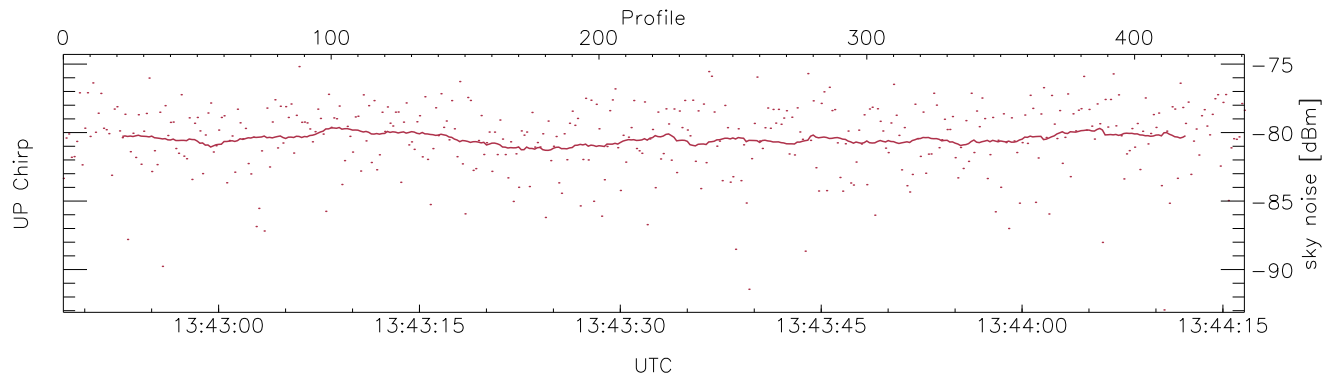
KPR SPP Last range gate power measurements: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-64.76	-64.19	-64.46	-64.46	-81.29
UP Pulse(dBm)	-65.12	-64.57	-64.82	-64.82	-81.40
DOWN Chirp(dBm)	-63.23	-62.70	-62.98	-62.98	-79.48
DOWN Pulse(dBm)	-63.38	-62.89	-63.12	-63.12	-79.91



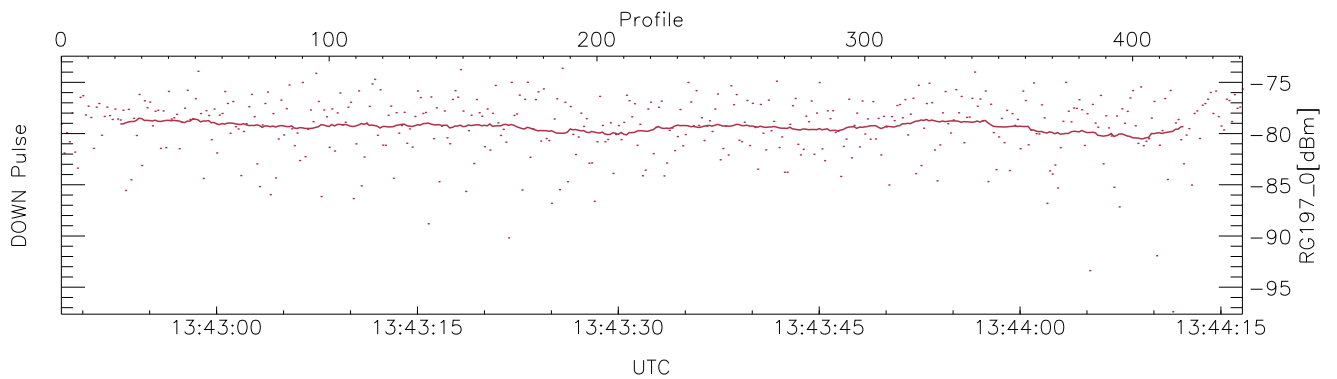
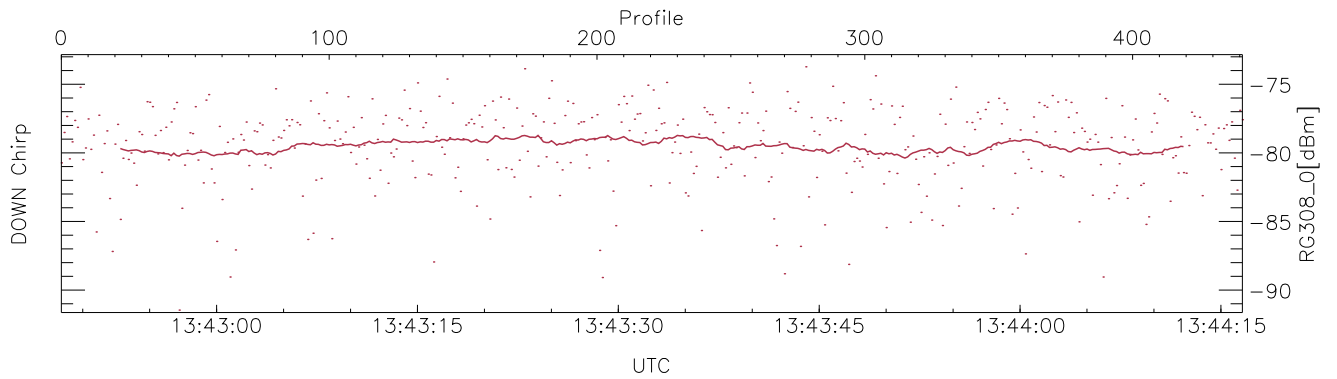
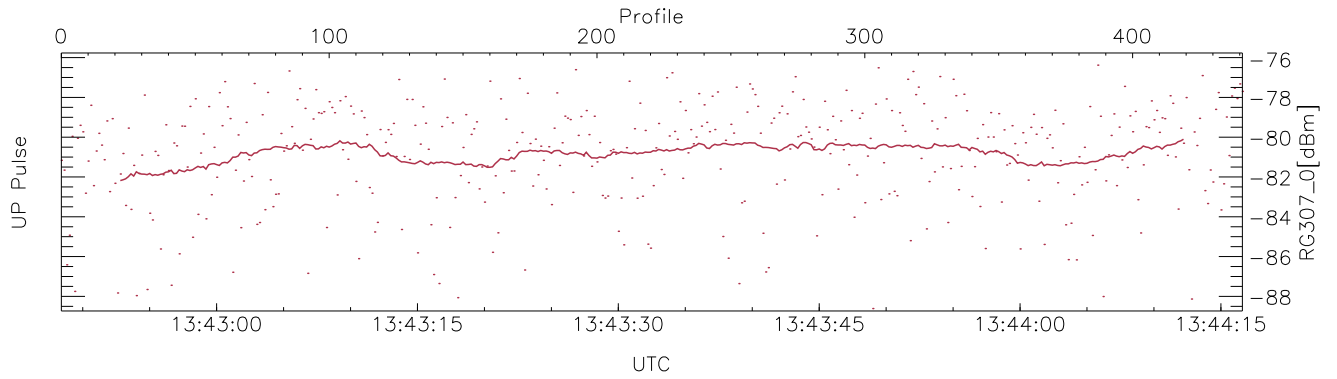
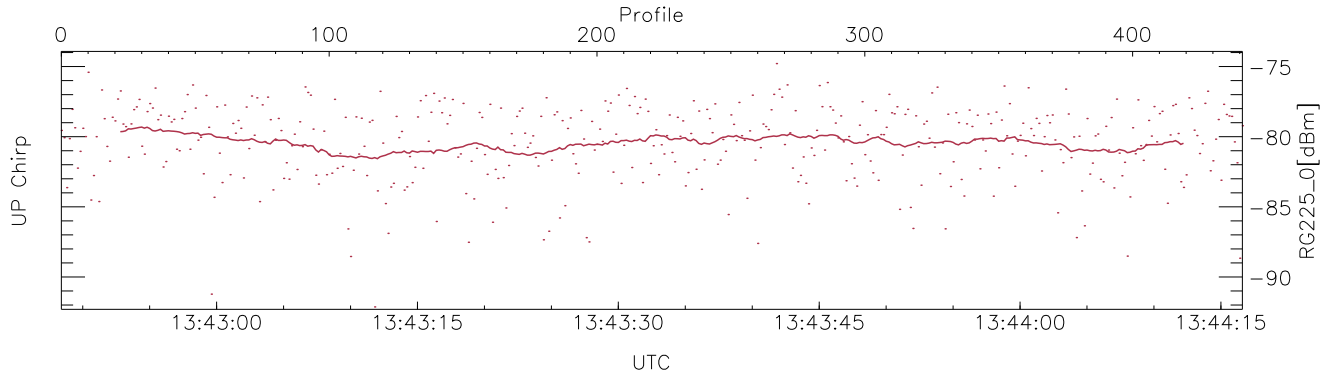
KPR SPP "Best" noise power measurements (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RG225_0	-64.76	-64.19	-64.47	-64.47	-80.93
UP_P_RG307_0	-65.15	-64.51	-64.83	-64.82	-81.24
DOWN_C_RG308_0	-63.24	-62.67	-62.99	-62.99	-79.43
DOWN_P_RG197_0	-63.44	-62.84	-63.13	-63.13	-79.62



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

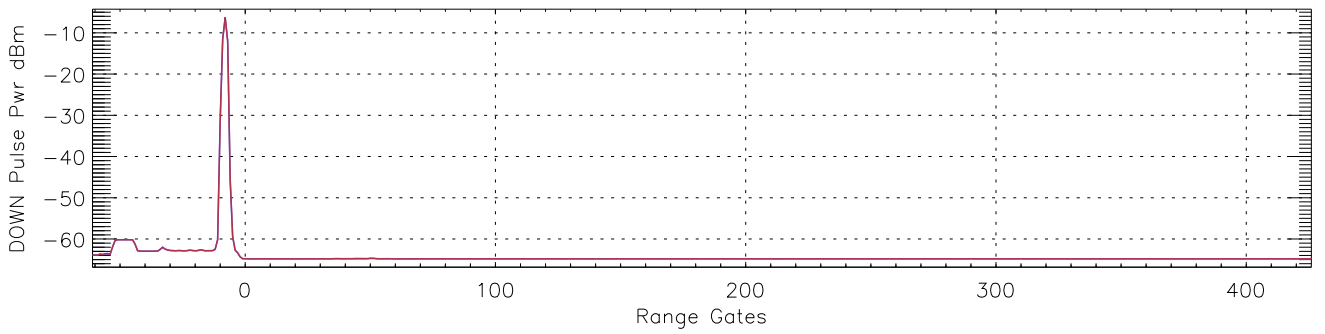
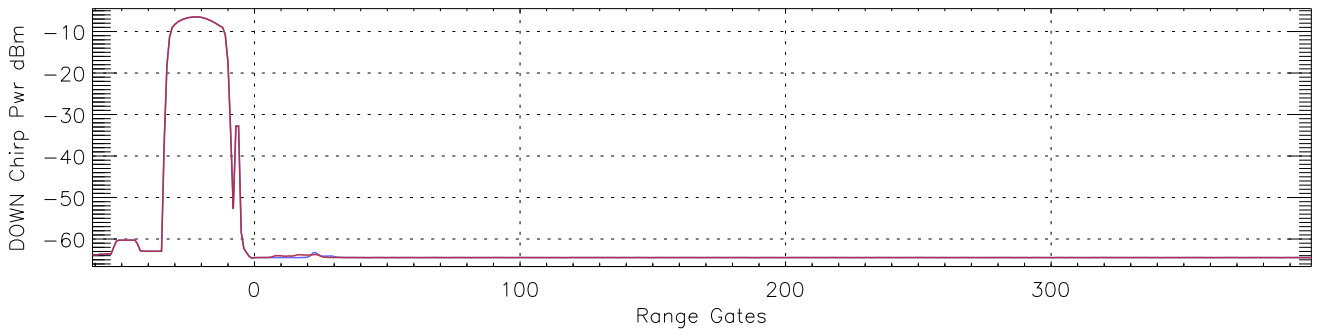
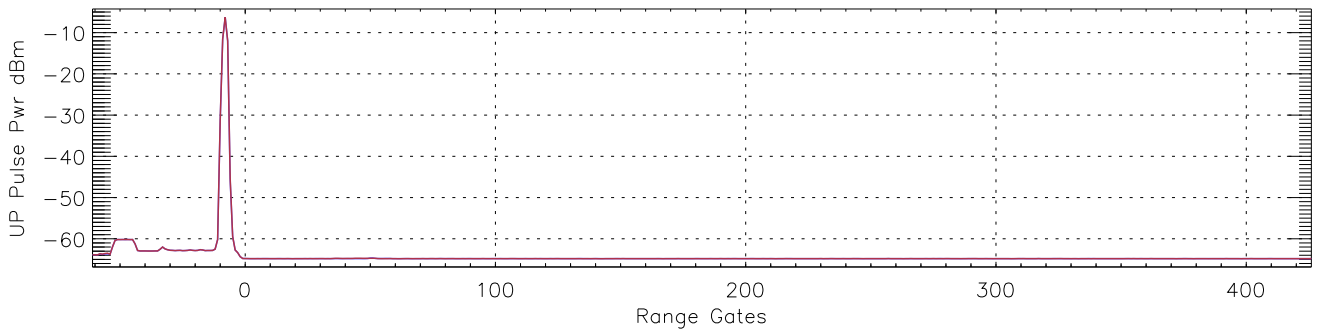
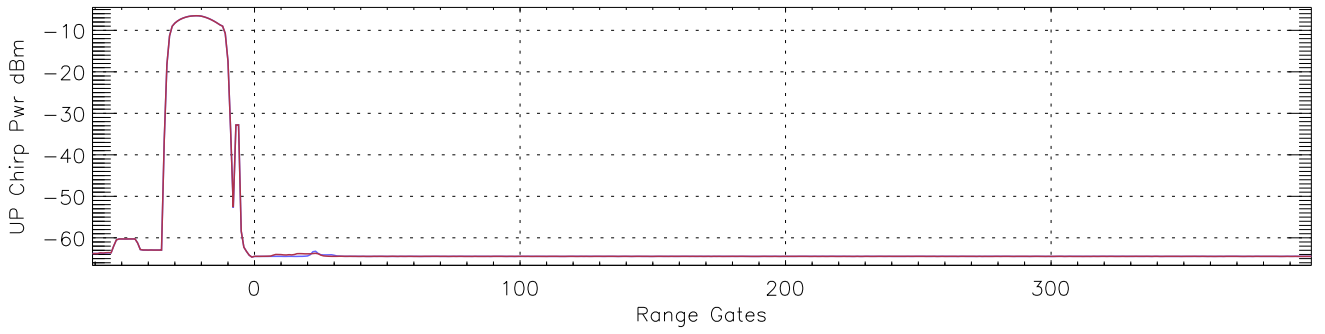
	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-92.95	-75.18	-79.80	-79.97	-82.88
UP Pulse(dBm)	-93.42	-75.56	-80.31	-80.57	-83.22
DOWN Chirp(dBm)	-93.88	-73.93	-78.59	-78.77	-81.03
DOWN Pulse(dBm)	-90.72	-74.18	-78.47	-78.56	-81.38



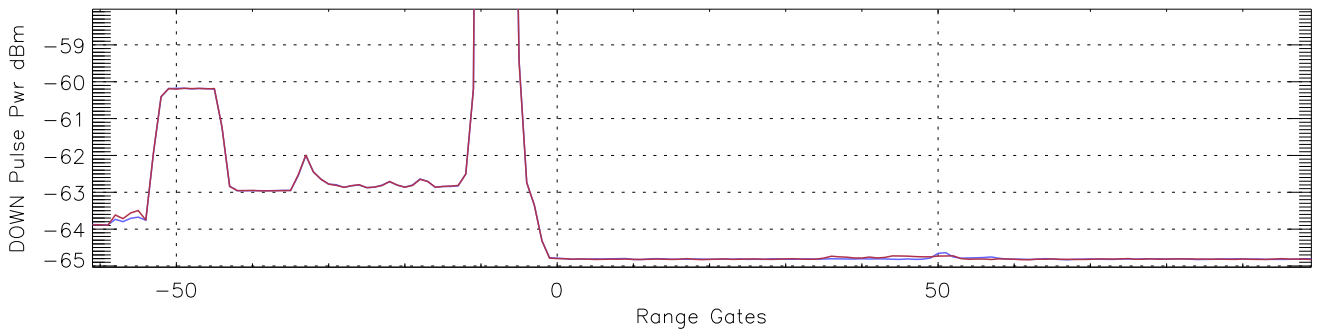
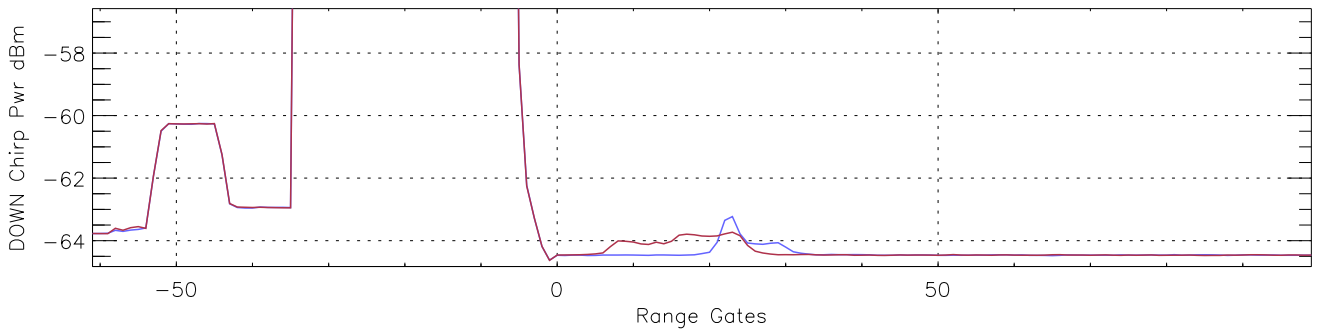
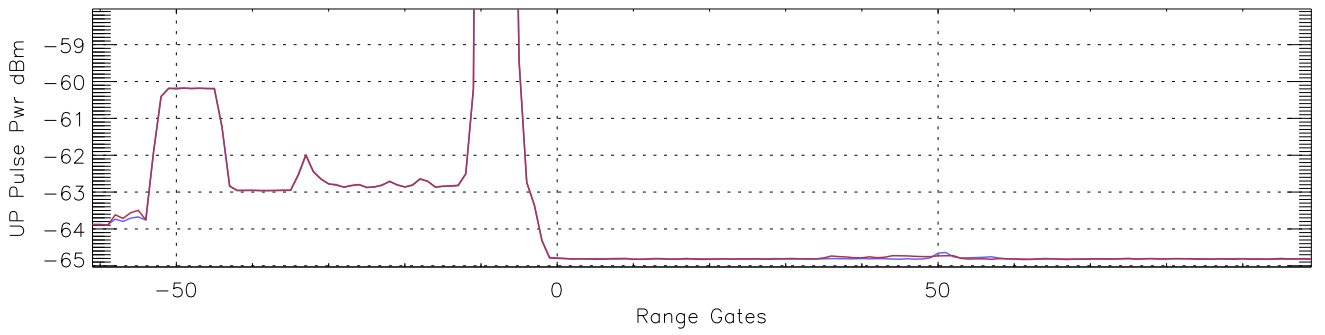
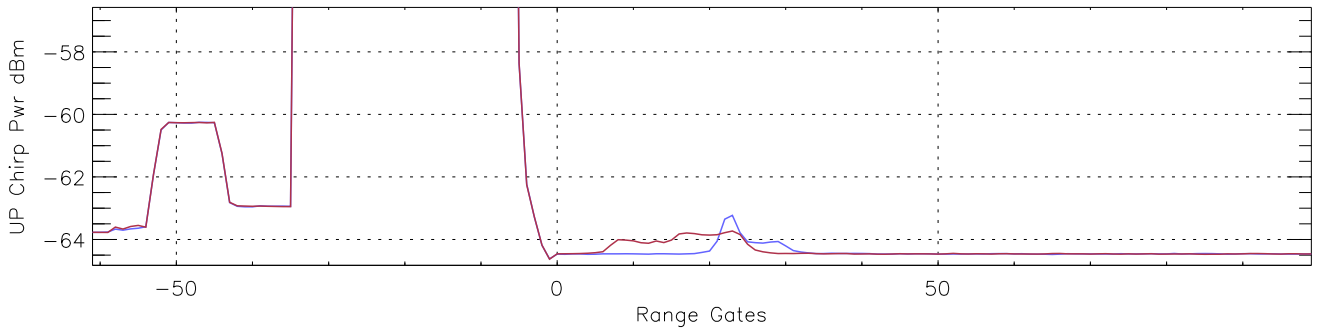
KPR SPP "Best" PPMAG noise (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RG225_0	-92.14	-74.79	-79.74	-79.99	-82.67
UP_P_RG307_0	-88.61	-76.38	-80.21	-80.32	-83.29
DOWN_C_RG308_0	-91.46	-73.72	-78.72	-79.02	-81.37
DOWN_P_RG197_0	-97.39	-73.64	-78.52	-78.74	-81.15

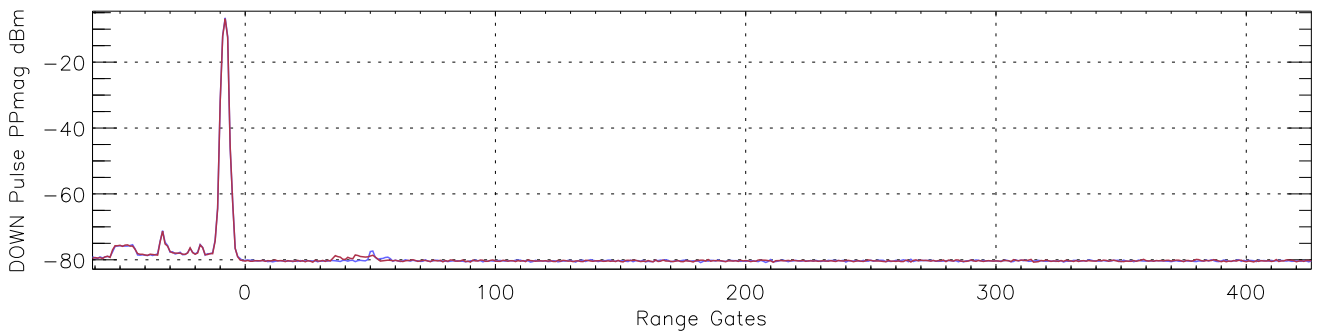
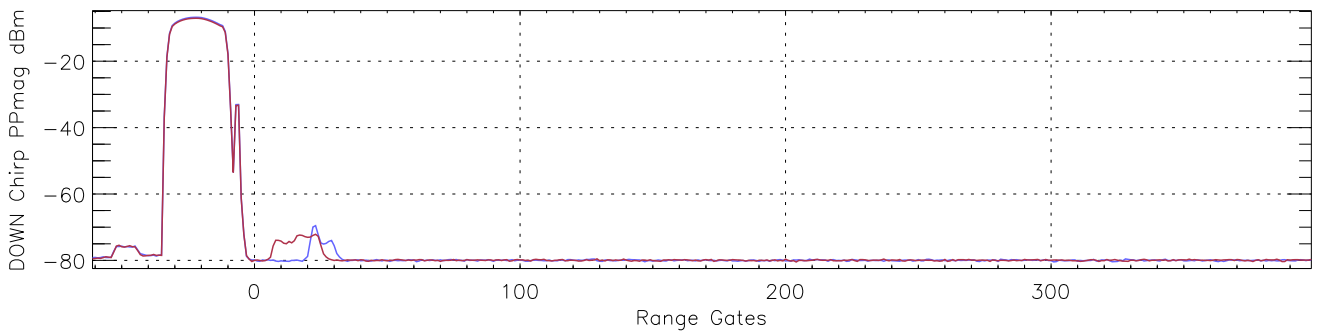
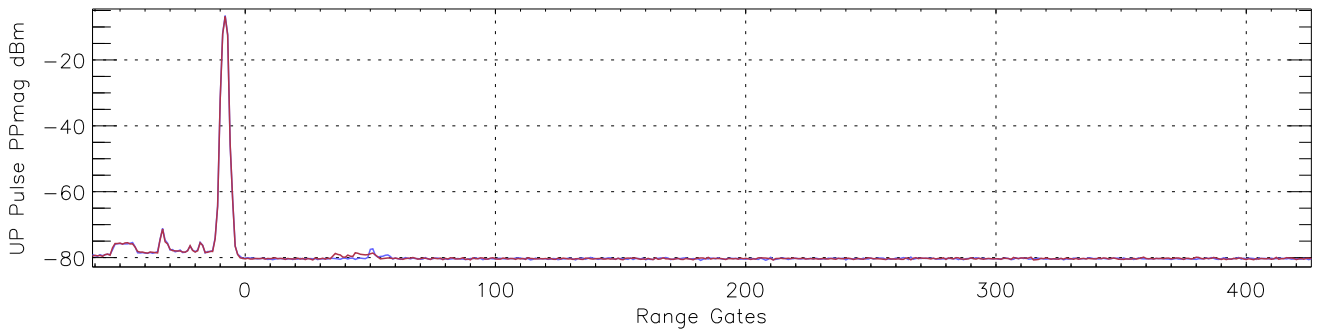
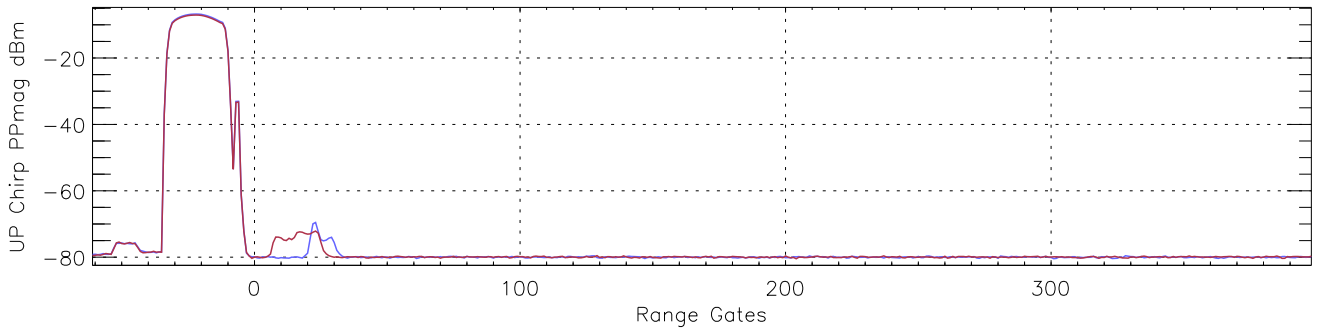




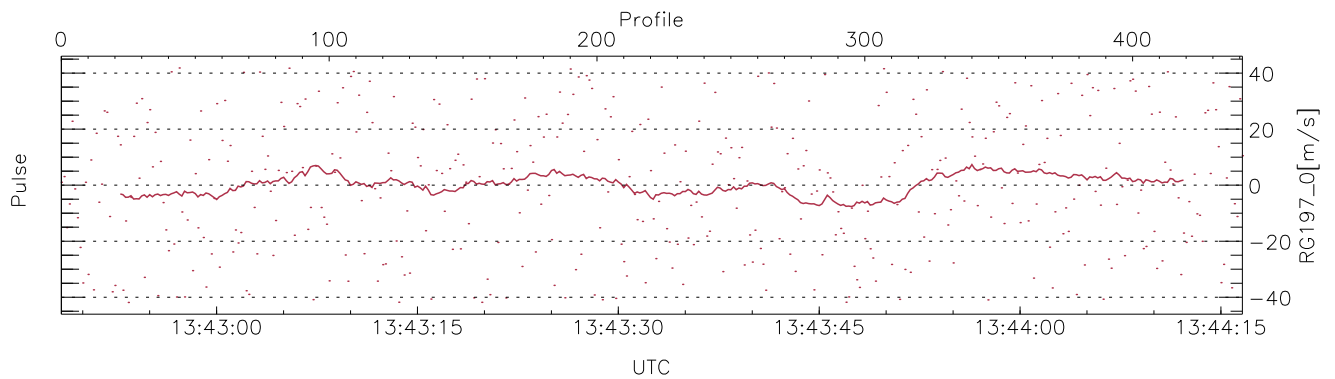
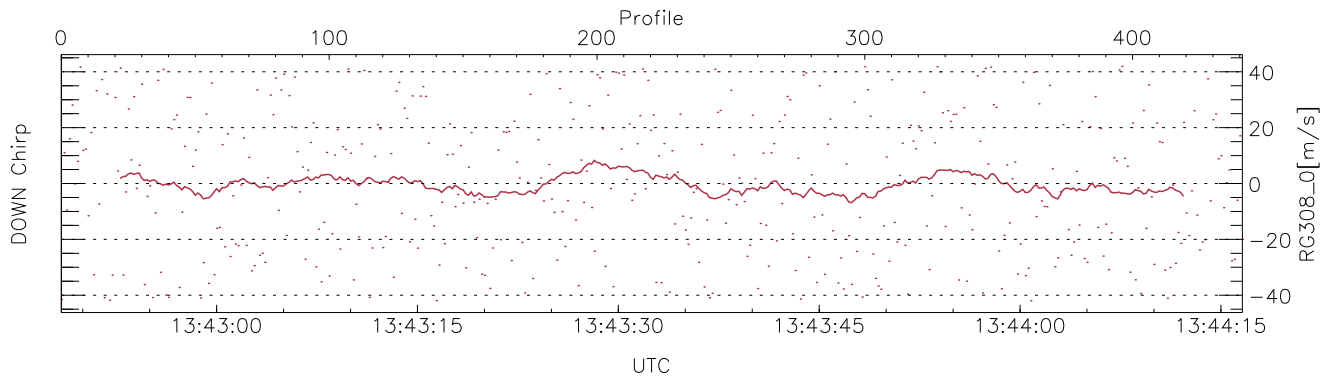
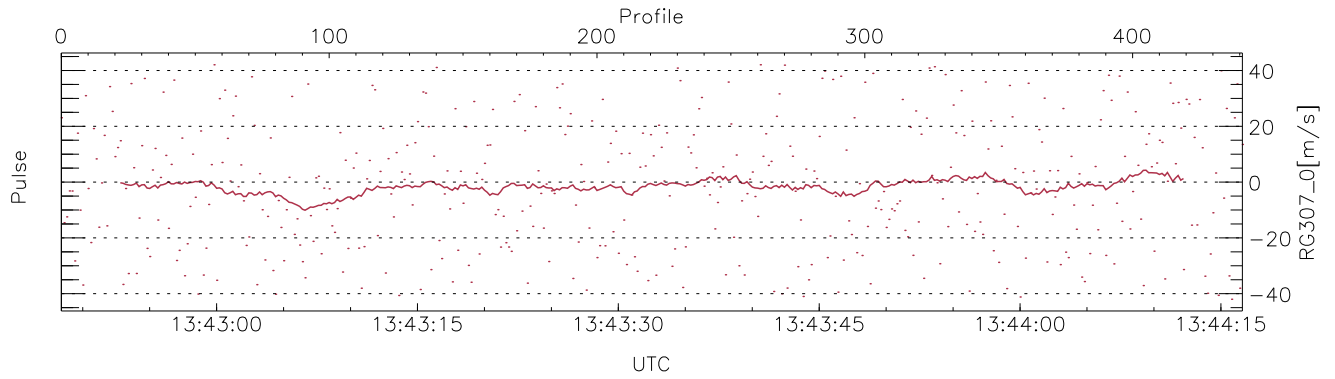
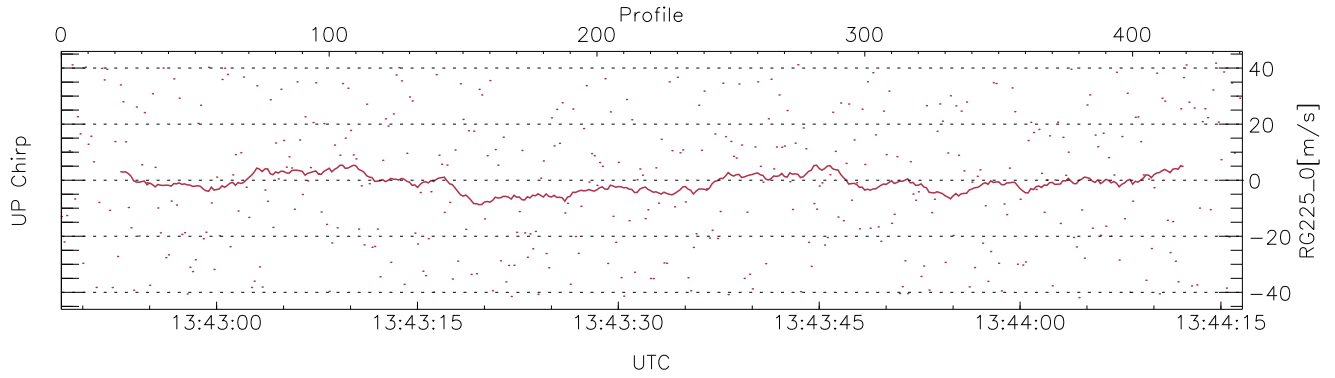
KPR SPP Averaged Received power for all recorded gates  
blue: 134248-134332, 222 profiles averaged  
red: 134332-134417, 221 profiles averaged



KPR SPP Averaged Power for neg. gates & up to 100 gates  
blue: 134248-134332, 222 profiles averaged  
red: 134332-134417, 221 profiles averaged

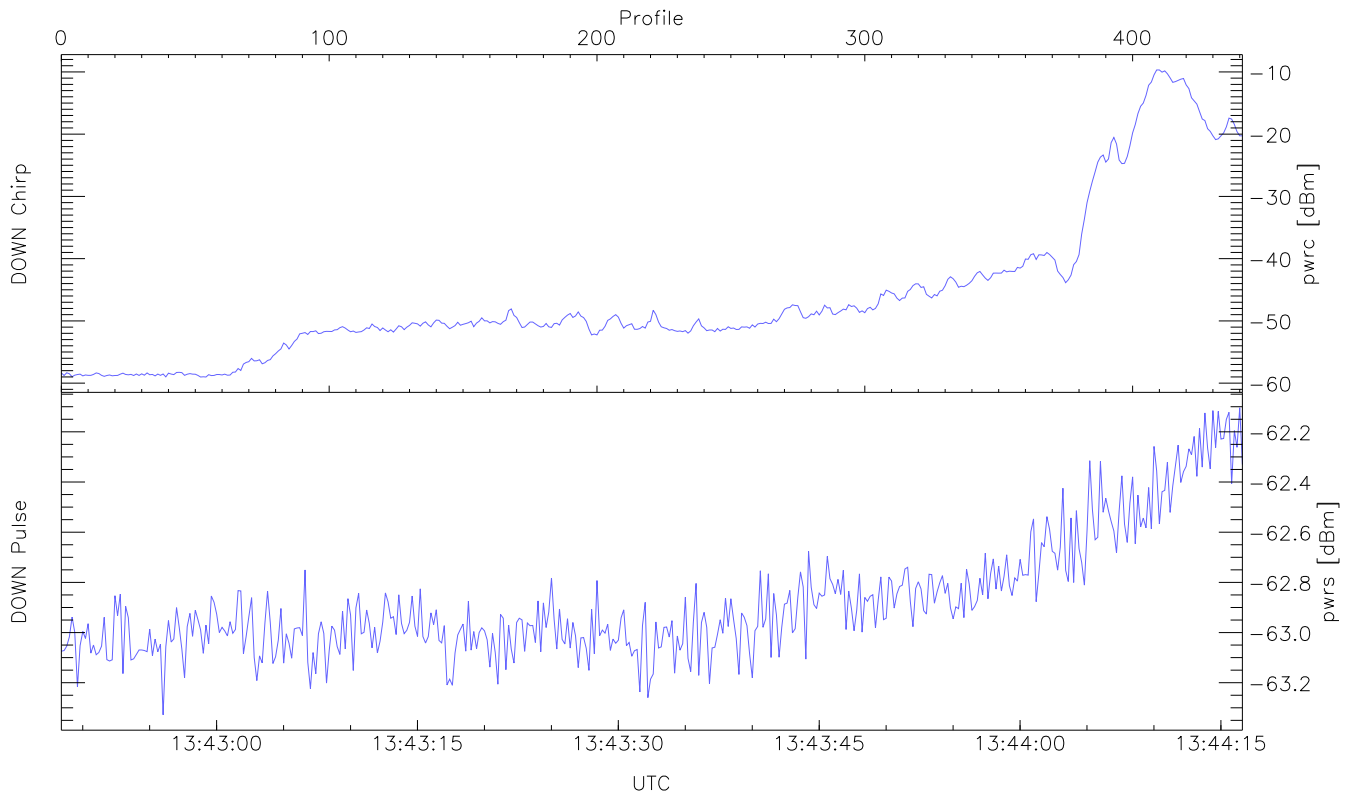
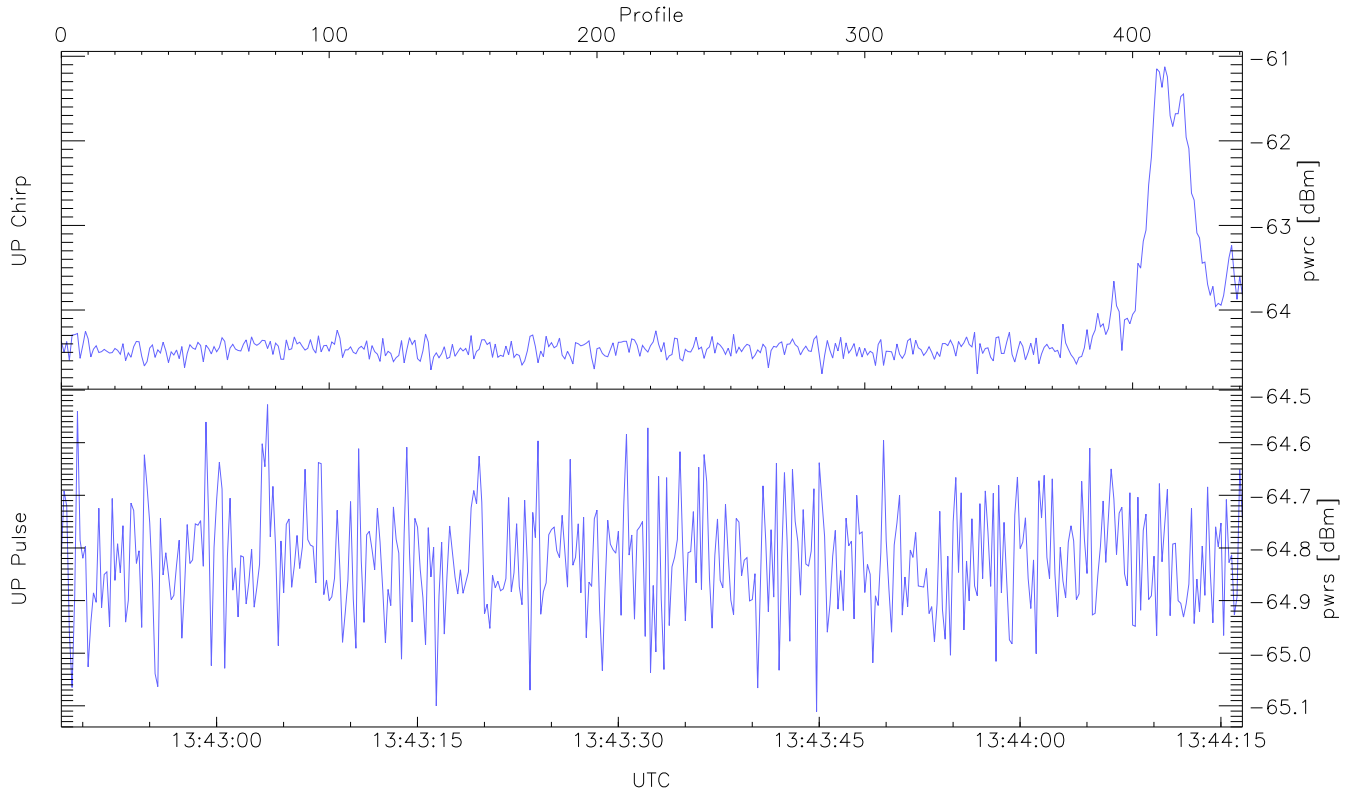


KPR SPP Averaged PP magnitude for all recorded gates  
blue: 134248-134332, 222 profiles averaged  
red: 134332-134417, 221 profiles averaged



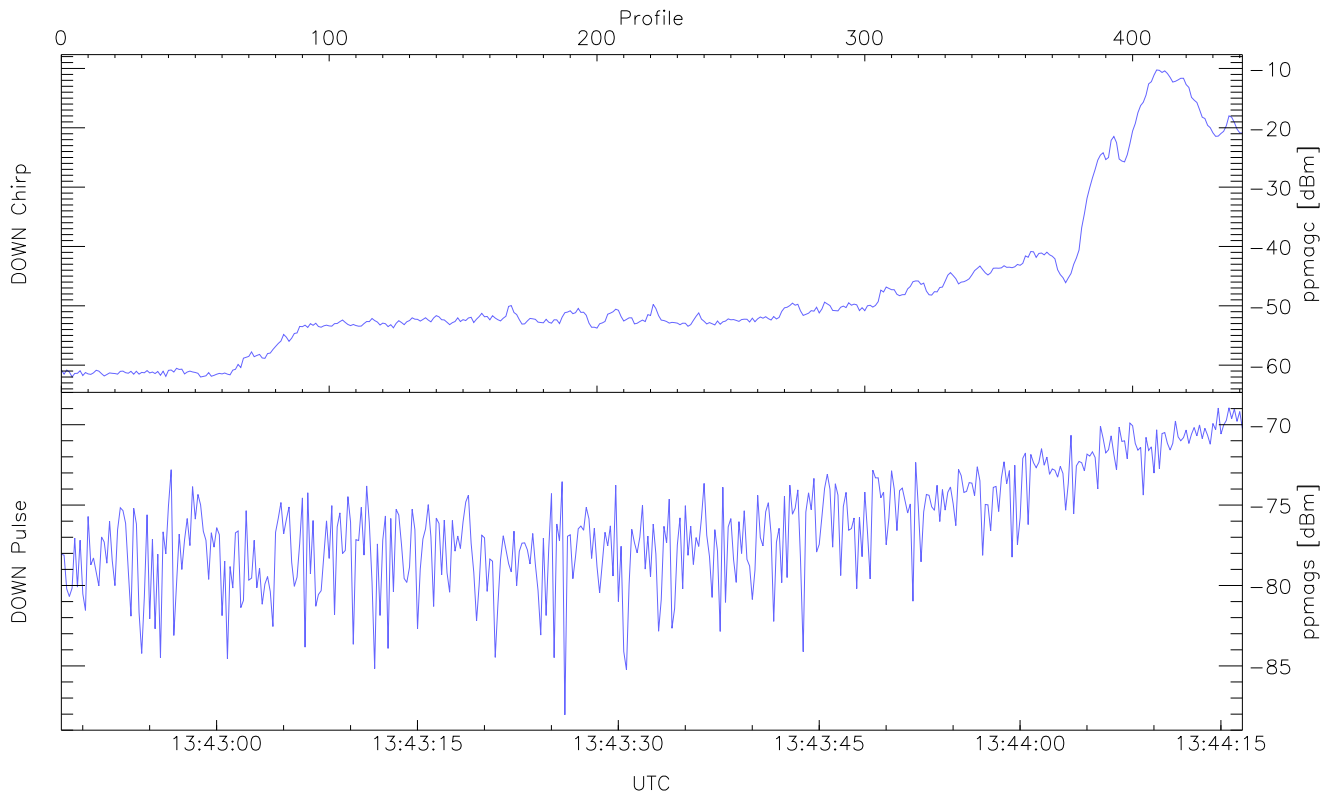
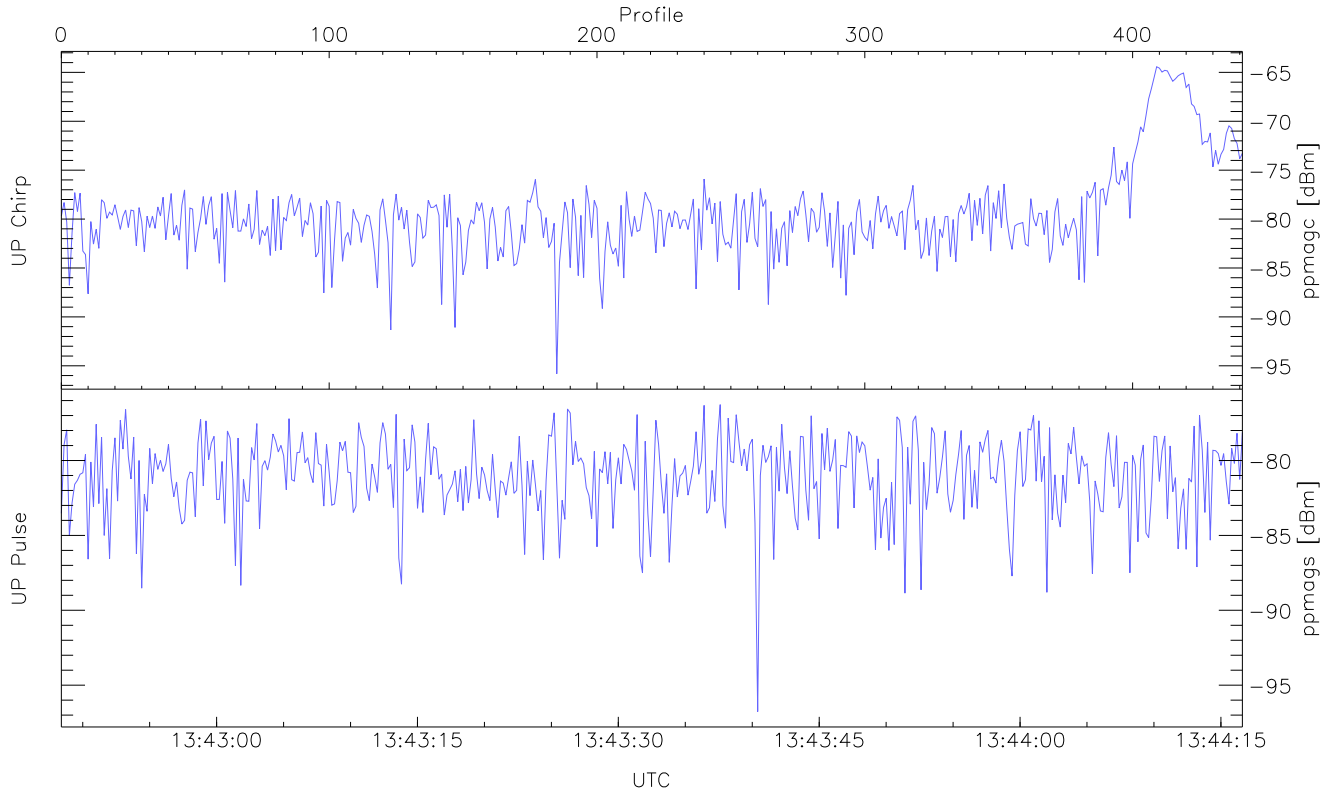
KPR SPP "Best" PPVEL noise (m/s):

	Min	Max	Mean	Median	StDev
UP_C_RG225_0	-41.89	41.75	-0.36	0.45	23.89
UP_P_RG307_0	-41.99	42.06	-1.59	-1.93	22.53
DOWN_C_RG308_0	-42.01	41.95	-0.44	-0.54	24.48
DOWN_P_RG197_0	-41.86	41.85	-0.05	1.03	23.52



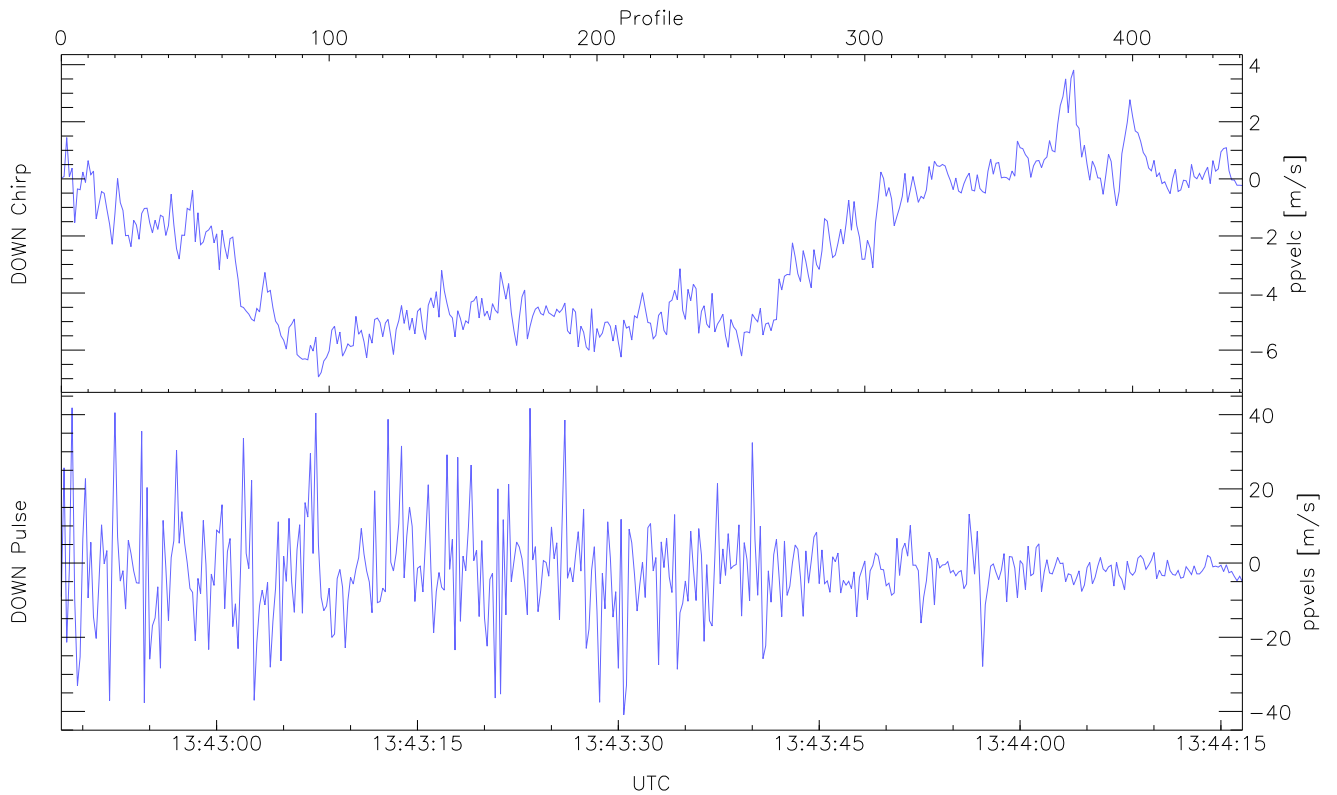
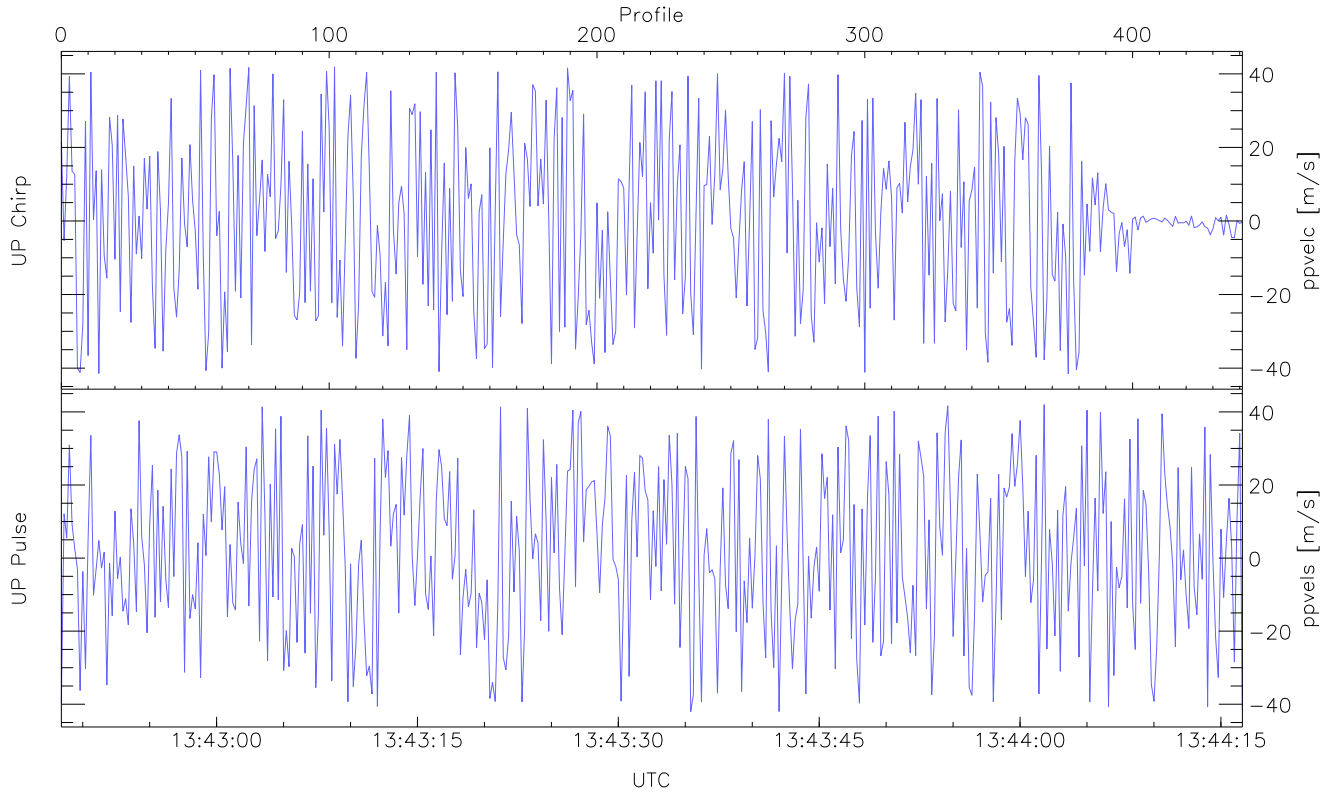
KPR SPP Received Power for Chirp Range gate 10 (686.2 m)  
 KPR SPP Received Power for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-64.75	-61.12	-64.25
UP Pulse(dBm)	-65.11	-64.53	-64.82
DOWN Chirp(dBm)	-59.02	-9.68	-23.80
DOWN Pulse(dBm)	-63.33	-62.10	-62.87



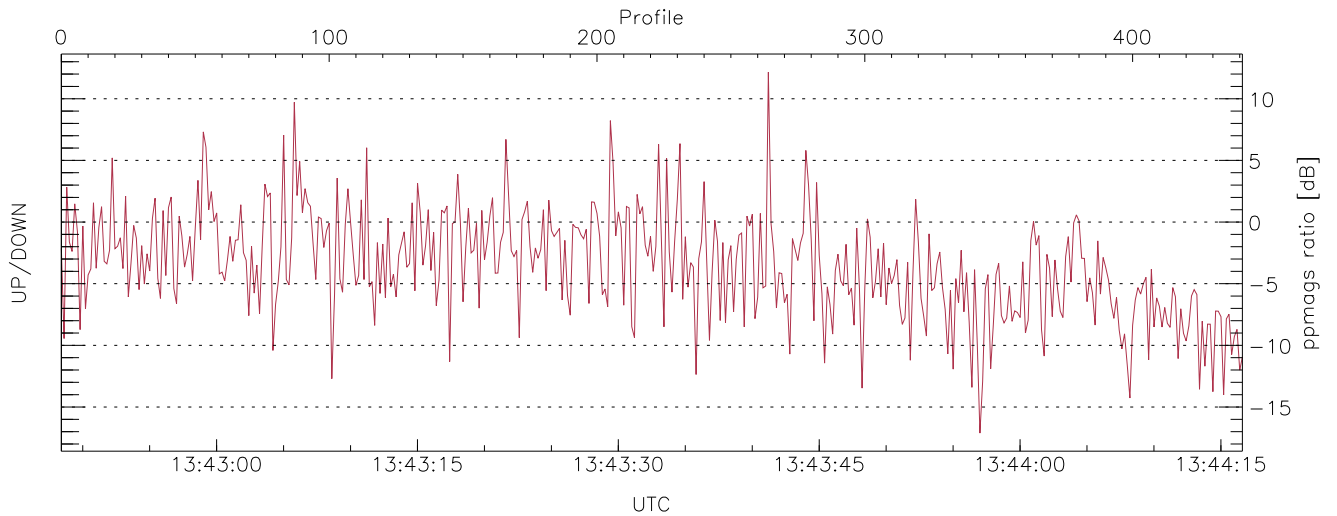
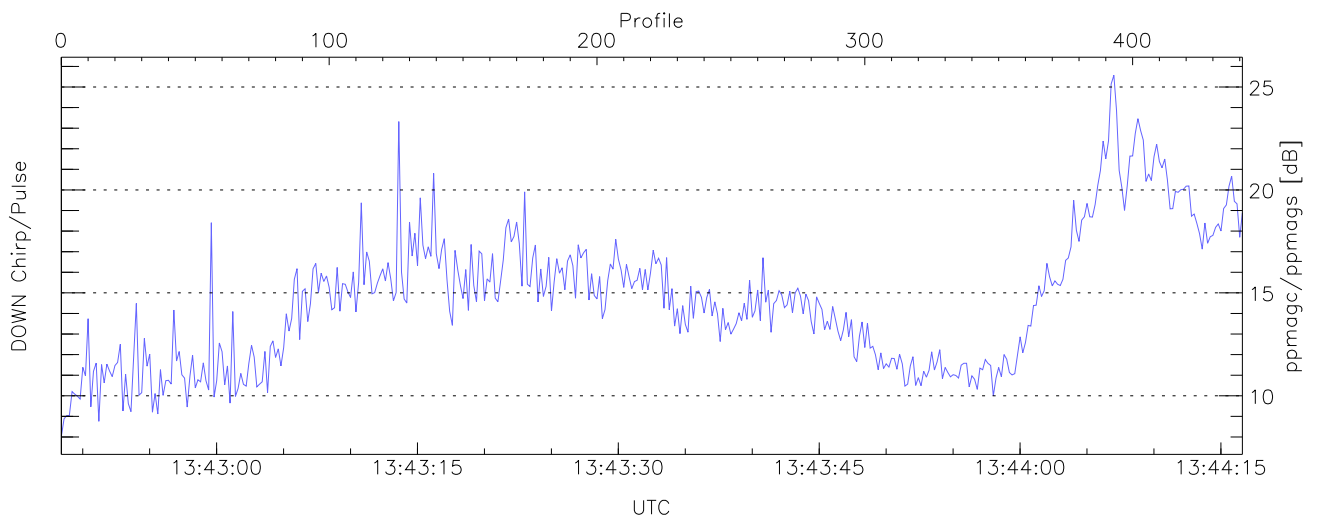
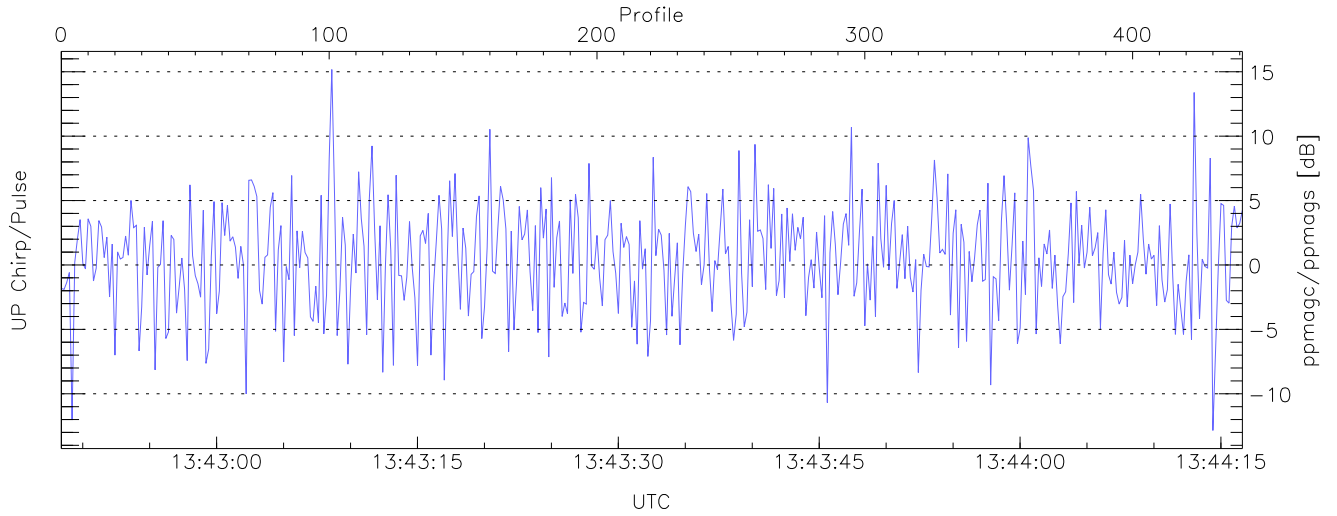
KPR SPP PPMAG for Chirp Range gate 10 (686.2 m)  
 KPR SPP PPMAG for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-95.82	-64.43	-76.22
UP Pulse(dBm)	-96.76	-76.26	-80.38
DOWN Chirp(dBm)	-62.01	-10.25	-24.42
DOWN Pulse(dBm)	-88.04	-68.95	-75.00



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)	-41.56	41.94	0.61
UP Pulse(m/s)	-42.02	42.02	1.70
DOWN Chirp(m/s)	-6.94	3.81	-2.58
DOWN Pulse(m/s)	-40.90	41.86	-2.04



KPR SPP PPMAG Chirp/Pulse; Range gate: 551.3m /555.5m

	Min	Max	Mean
UP Chirp/Pulse(dBm)	-12.85	15.18	2.38
DOWN Chirp/Pulse(dBm)	8.03	25.57	16.04
UP/DOWN Ratio at Range 135.8 m			
	Min	Max	Mean
UP/DOWN(dB)	-17.12	12.16	-1.31