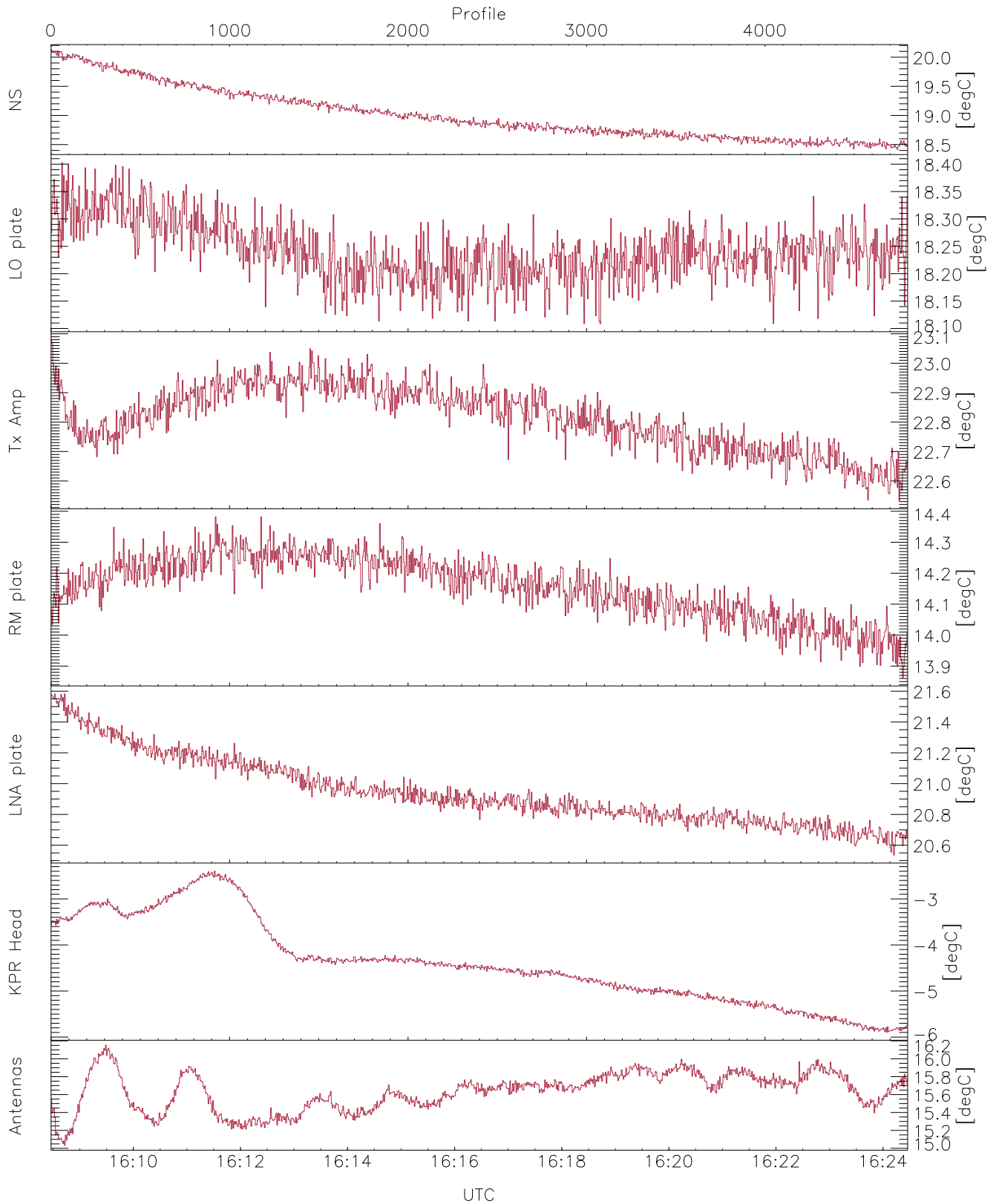


KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF
 UTC: 16:08:28-16:43:13, TimeCor: 0.00s, Dur: 959.80s
 TimeInt(min,max,mn,std): 188.1,211.9,200.0,0.5 ms; PPS: 5.0
 NumRec(r/t): 4800/10428, 0-4799/16:08:28-16:24:28
 AcqTime(req,actual): 200.0,200.0 ms, Data Rate: 187.6 KB/s
 Pulse: 247 ns, Chirp: 2.47 us, 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

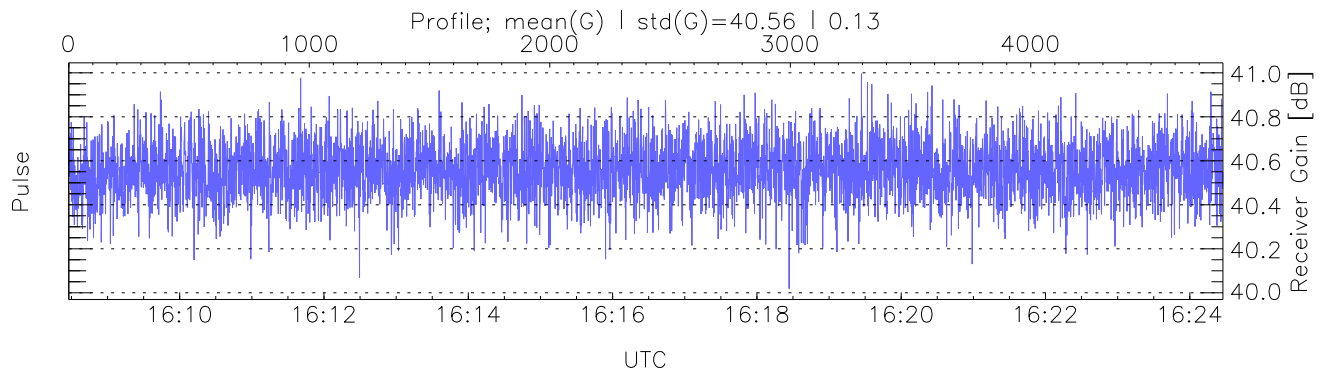
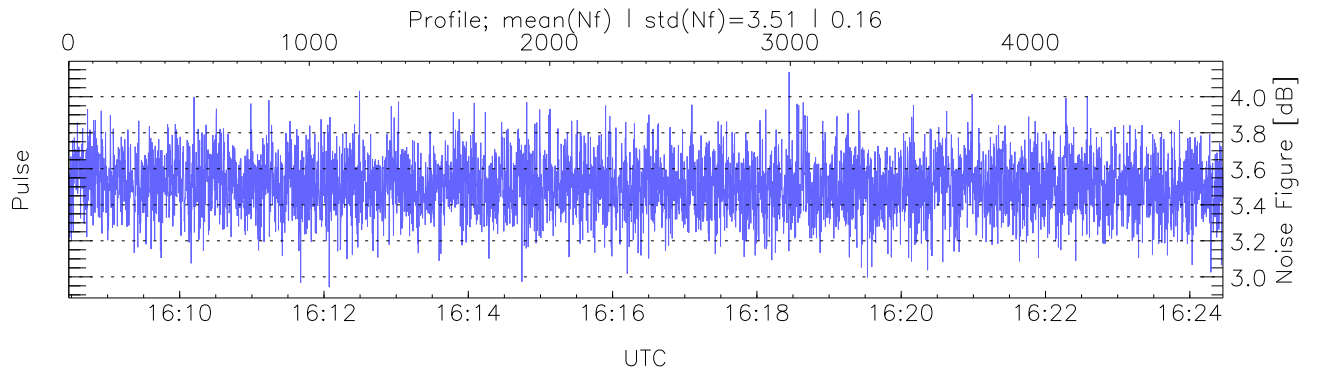
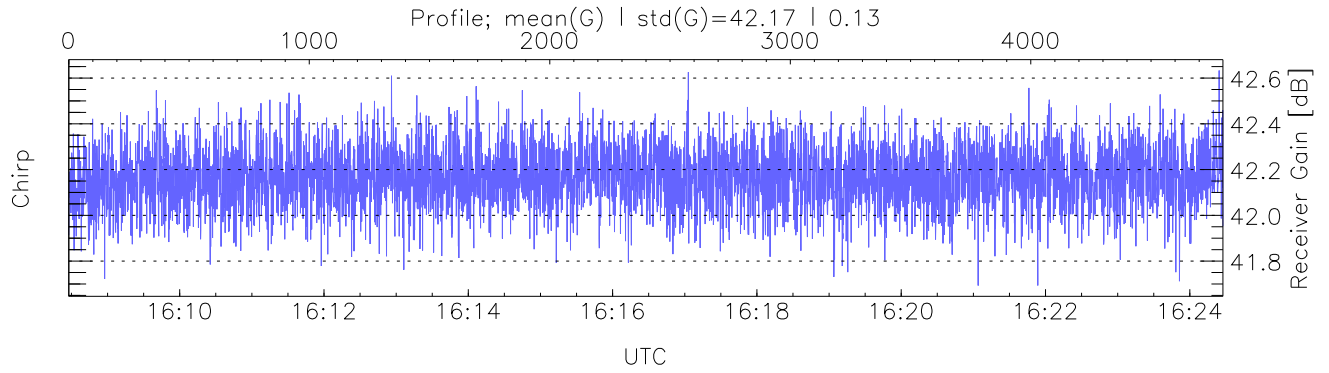
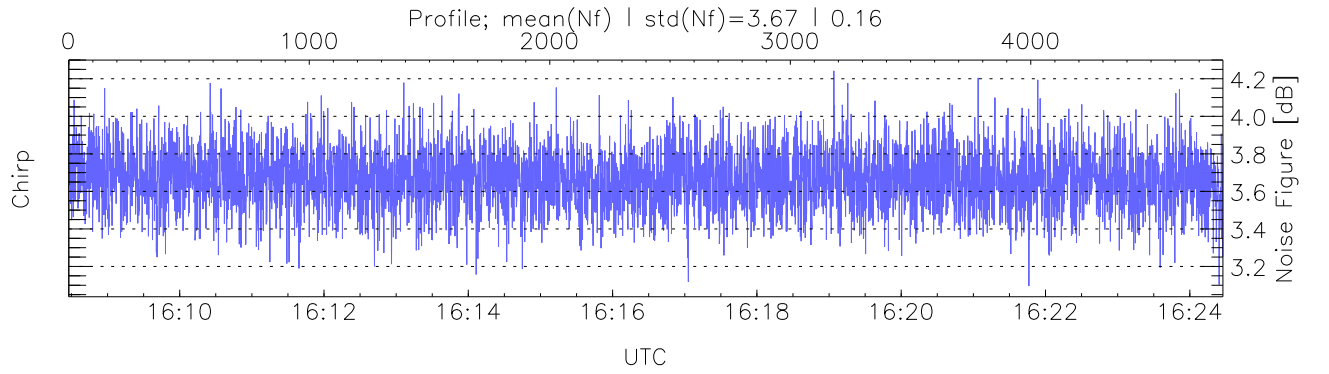


KPR SPP Temperatures, Power Supplies, PLO lock:

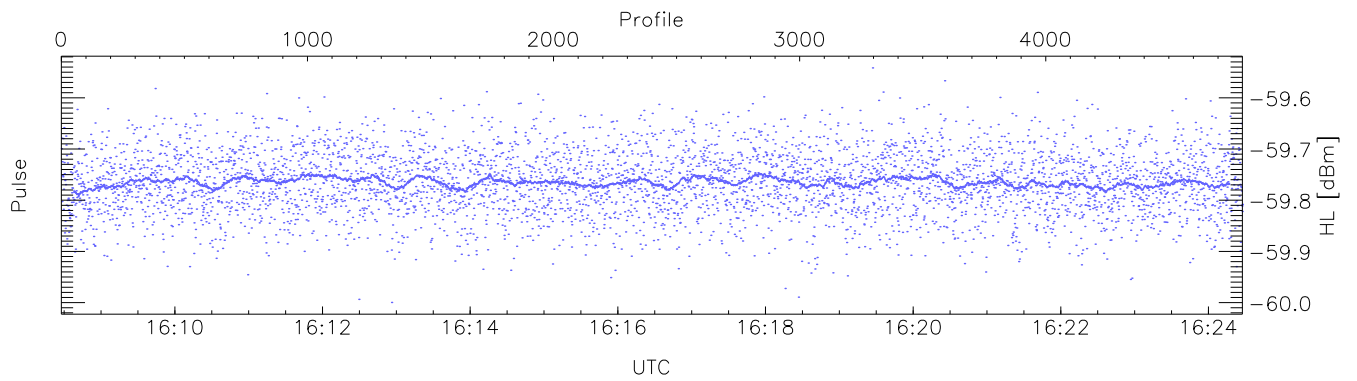
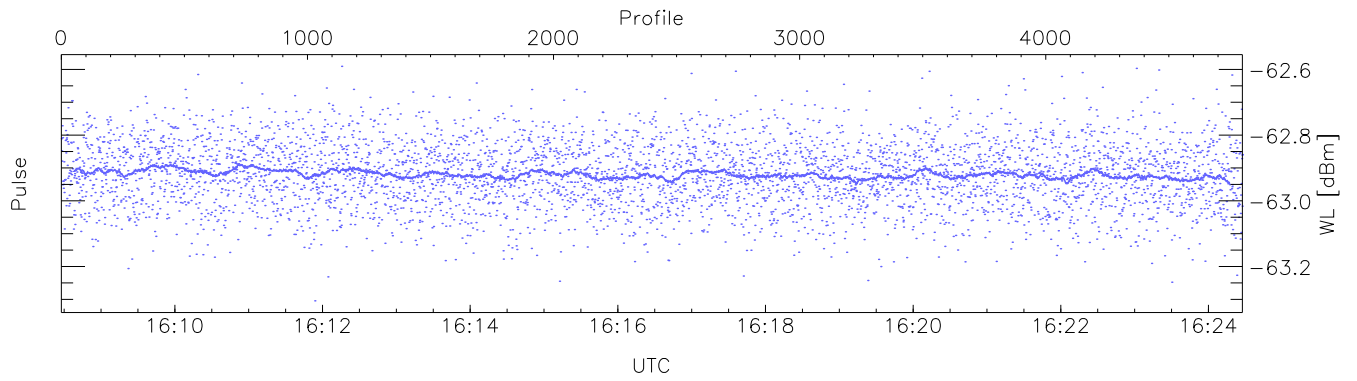
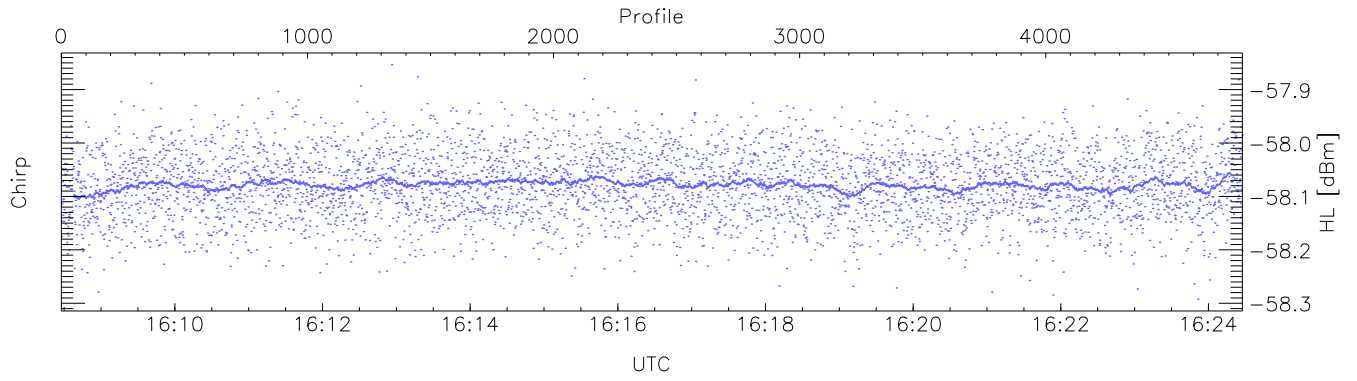
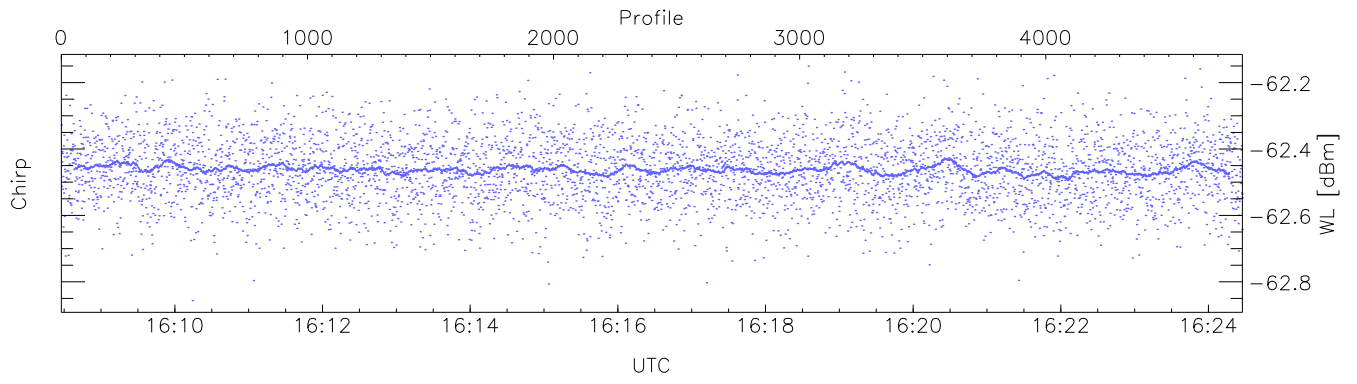
temperature:	NS,	LO,	Tx,	RM,	LNA,	Head,	Ant
mintempC:	18.4,	18.1,	22.5,	13.9,	20.5,	-5.9,	15.0
maxtempC:	20.1,	18.4,	23.1,	14.4,	21.6,	-2.4,	16.2
meantempC:	19.0,	18.2,	22.8,	14.2,	20.9,	-4.4,	15.6

PwrSply:	28,	12,	8,	5 VDC
minVDC:	25.48,	11.68,	7.87,	5.21
maxVDC:	27.93,	11.74,	7.90,	5.23
meanVDC:	26.90,	11.71,	7.88,	5.22

PLO(3.84,15.84 GHz) unlocked: None

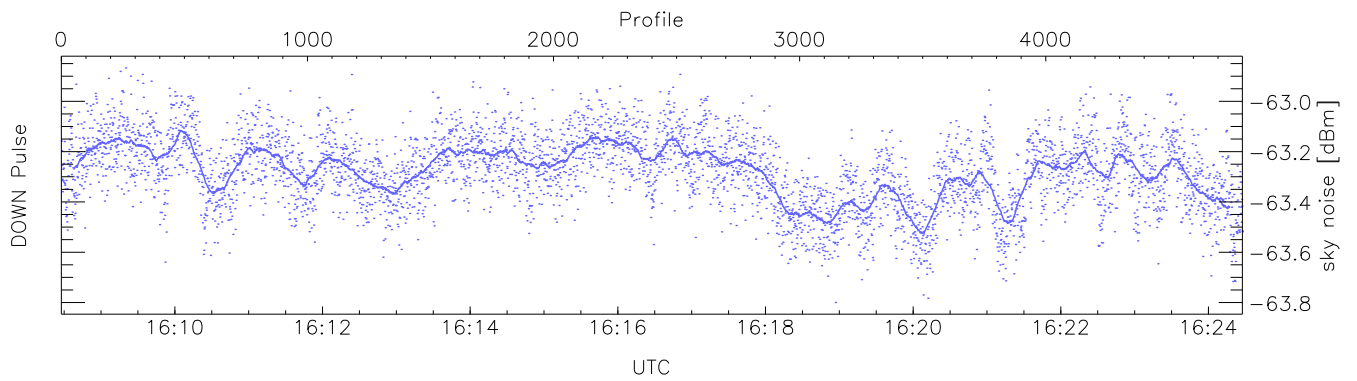
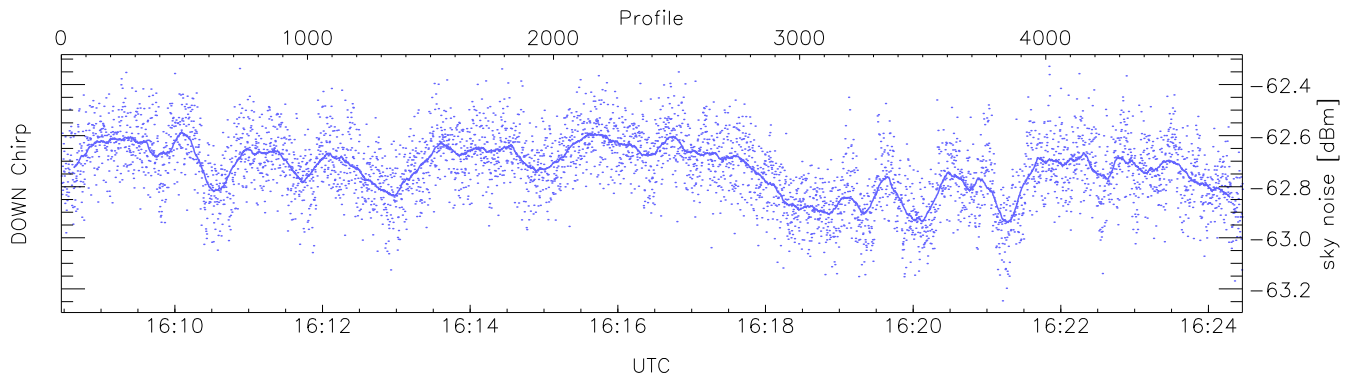
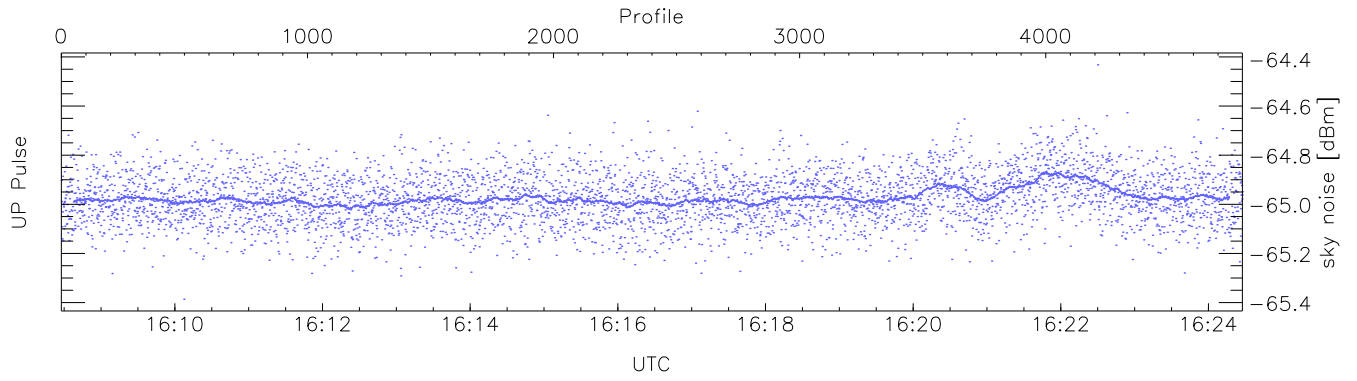
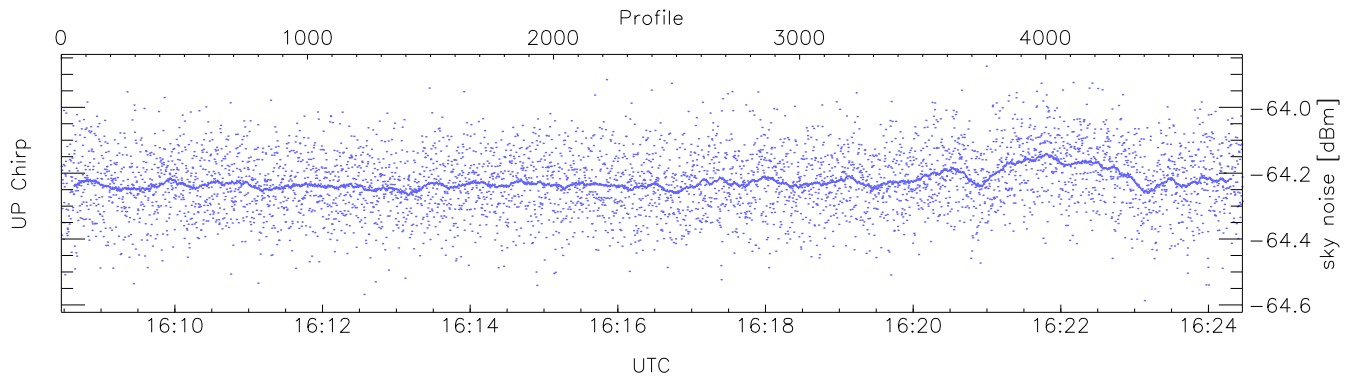


KPR SPP Receiver Gain and Noise Figure



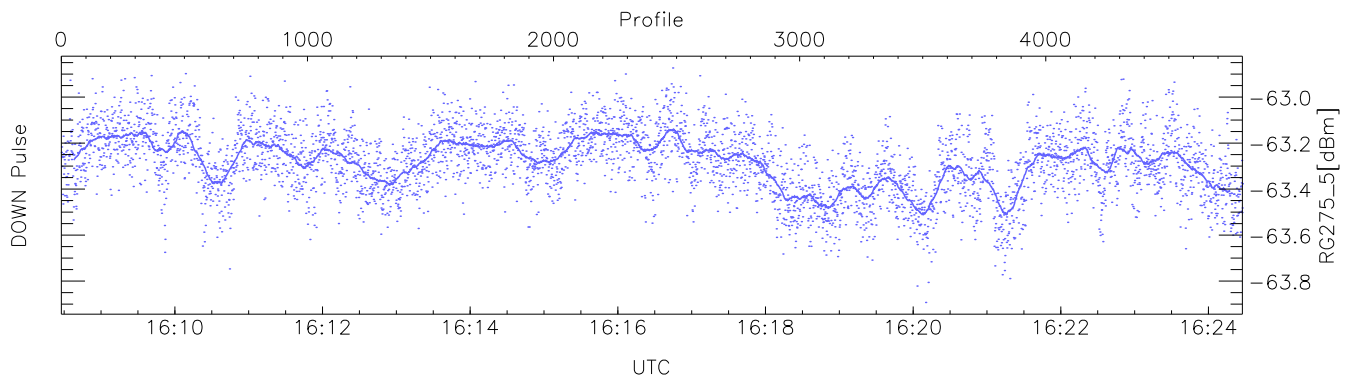
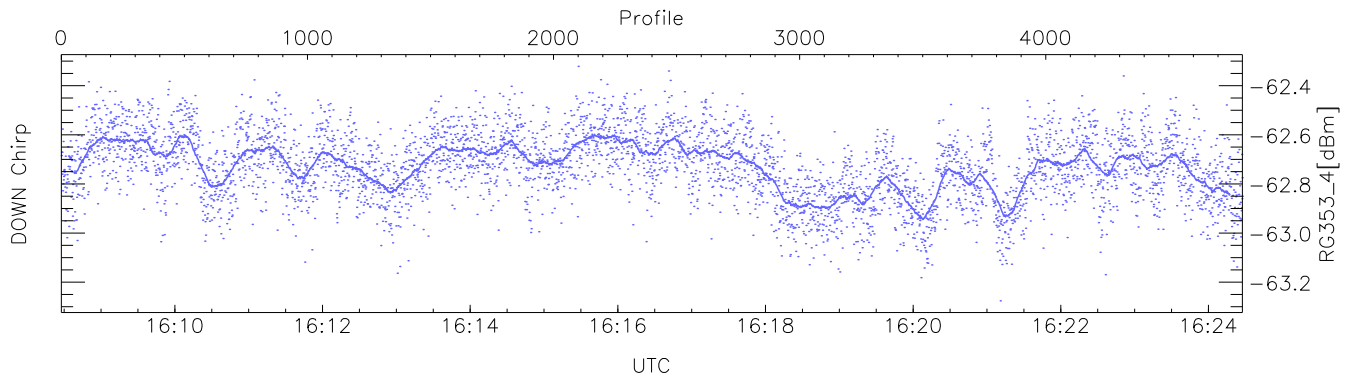
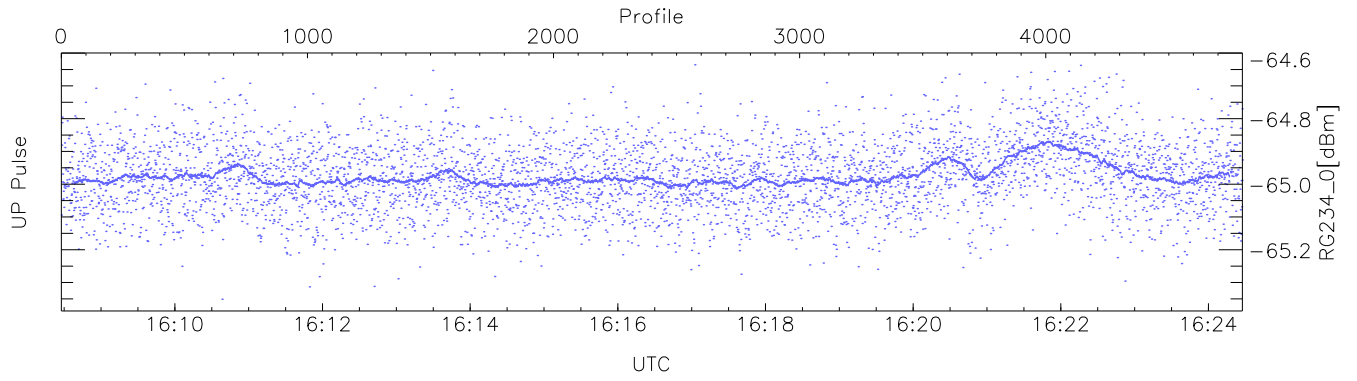
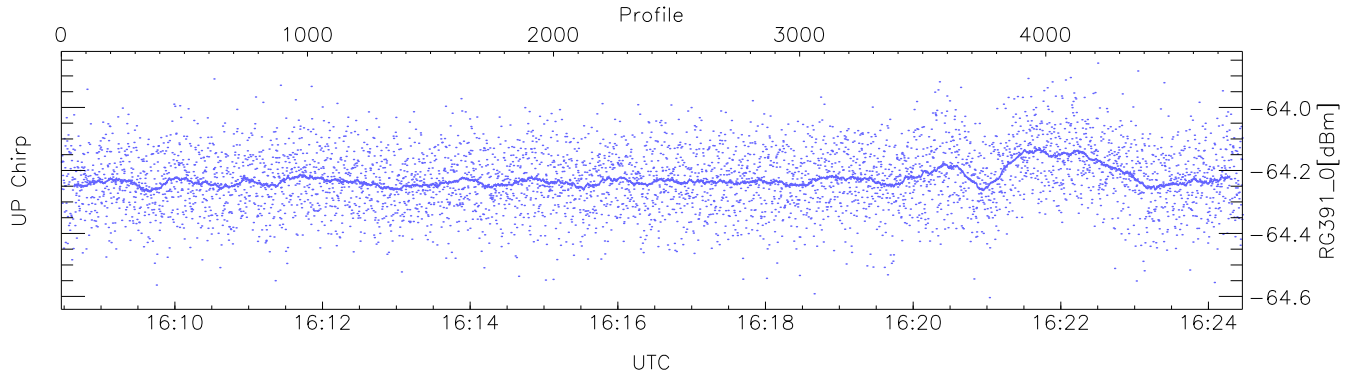
KPR SPP Receiver Noise Source Warm and Hot Measurements

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-62.86	-62.15	-62.46	-62.46	-79.02
Chirp(HL [dBm])	-58.29	-57.85	-58.08	-58.08	-76.60
Pulse(WL [dBm])	-63.30	-62.59	-62.92	-62.92	-79.43
Pulse(HL [dBm])	-60.00	-59.54	-59.77	-59.77	-78.34



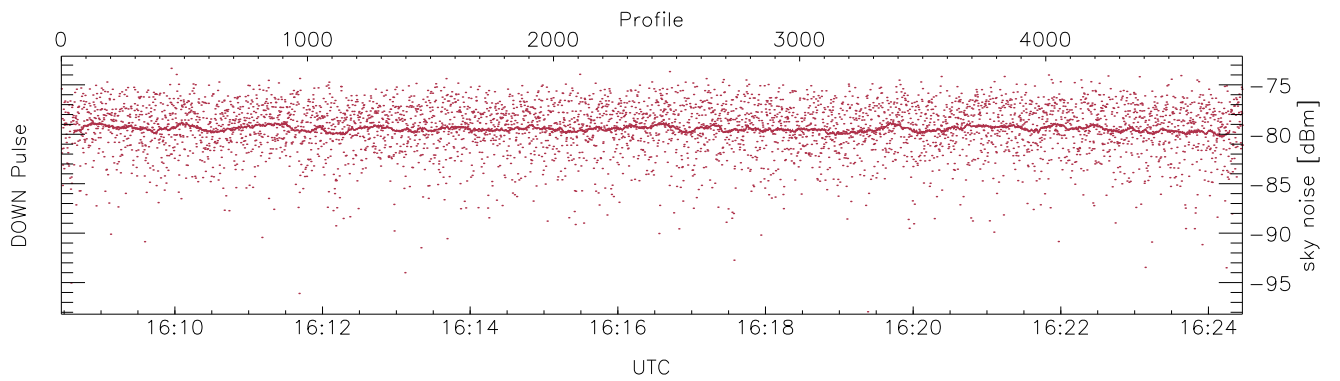
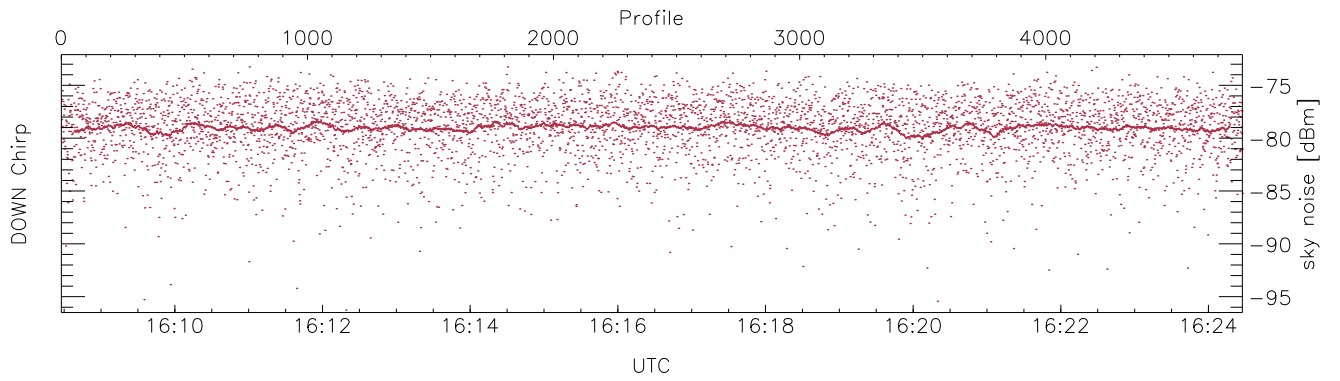
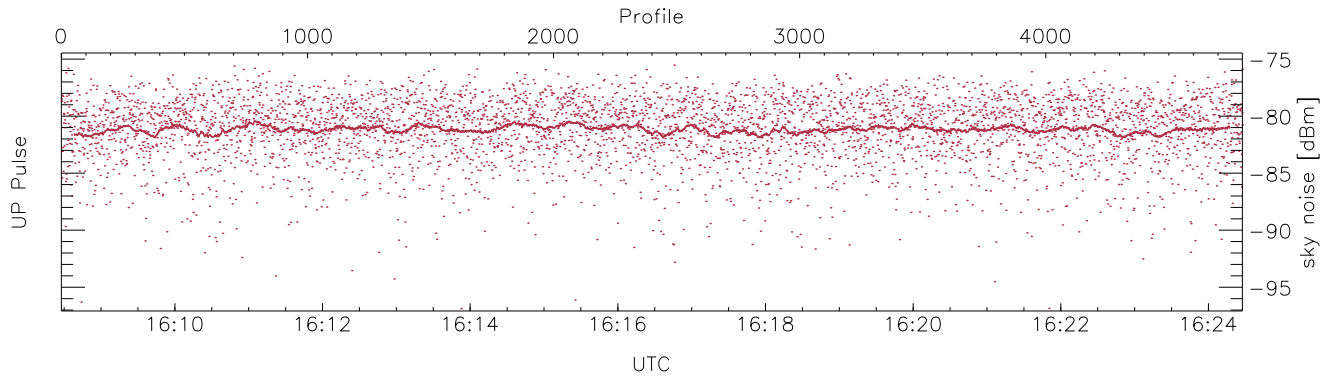
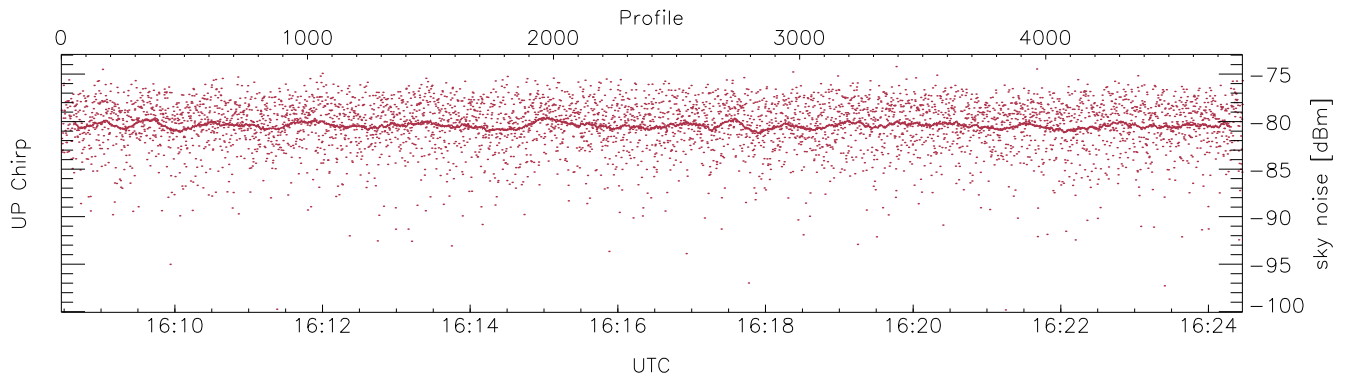
KPR SPP Last range gate power measurements: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-64.59	-63.88	-64.23	-64.23	-80.65
UP Pulse(dBm)	-65.39	-64.43	-64.97	-64.98	-81.27
DOWN Chirp(dBm)	-63.25	-62.33	-62.73	-62.72	-77.67
DOWN Pulse(dBm)	-63.80	-62.87	-63.28	-63.27	-78.11



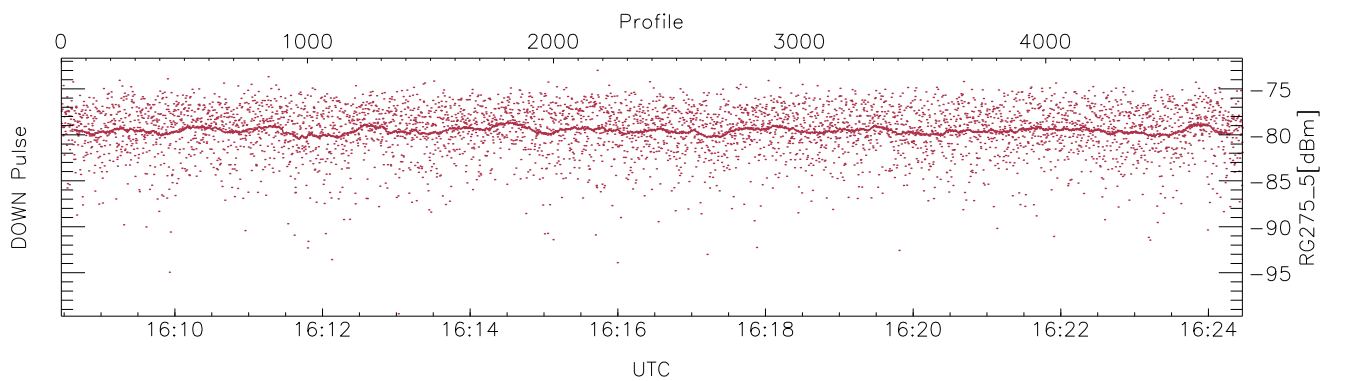
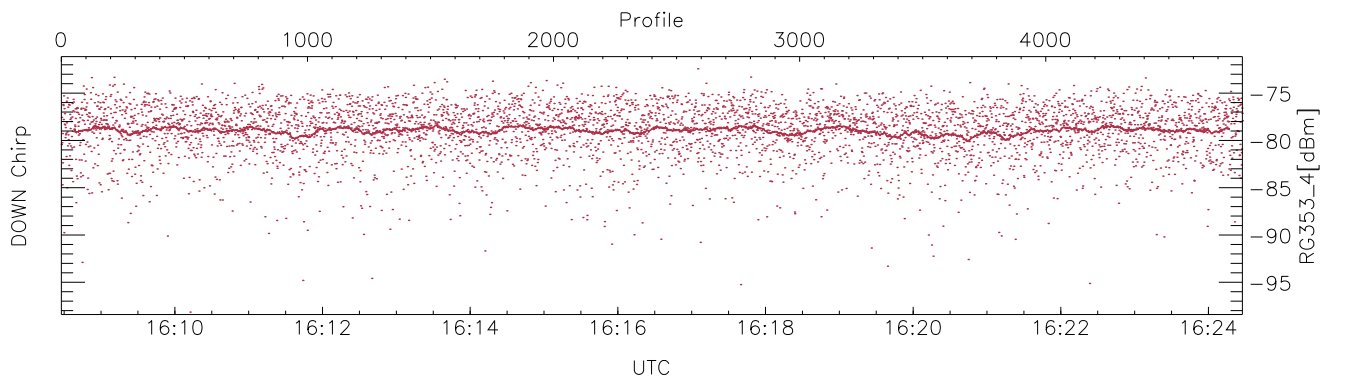
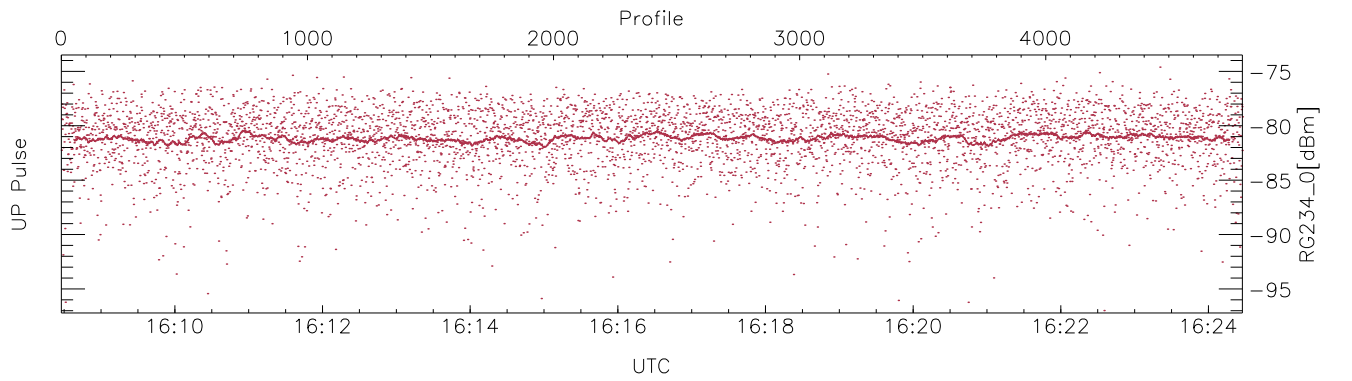
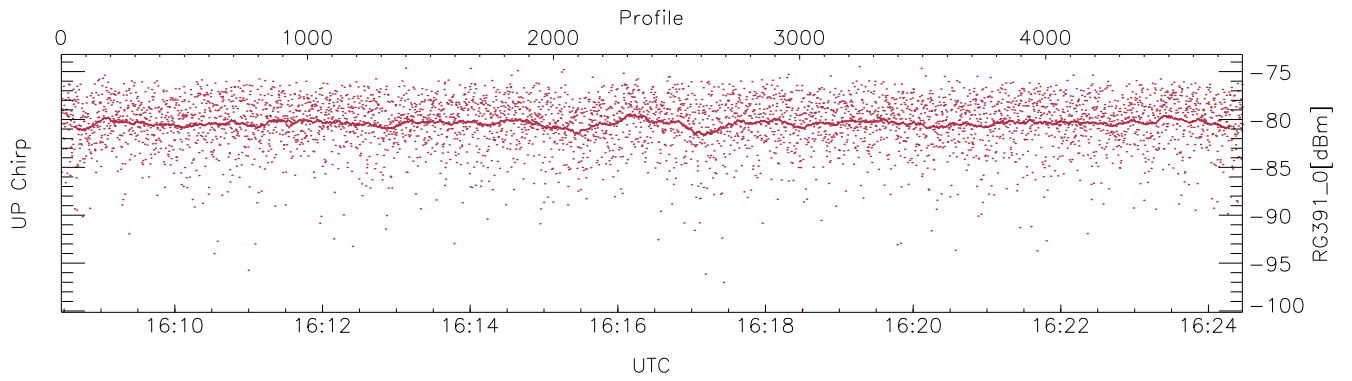
KPR SPP "Best" noise power measurements (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RG391_0	-64.60	-63.86	-64.23	-64.23	-80.53
UP_P_RG234_0	-65.35	-64.64	-64.97	-64.98	-81.28
DOWN_C_RG353_4	-63.28	-62.32	-62.73	-62.72	-77.74
DOWN_P_RG275_5	-63.89	-62.87	-63.28	-63.28	-78.08



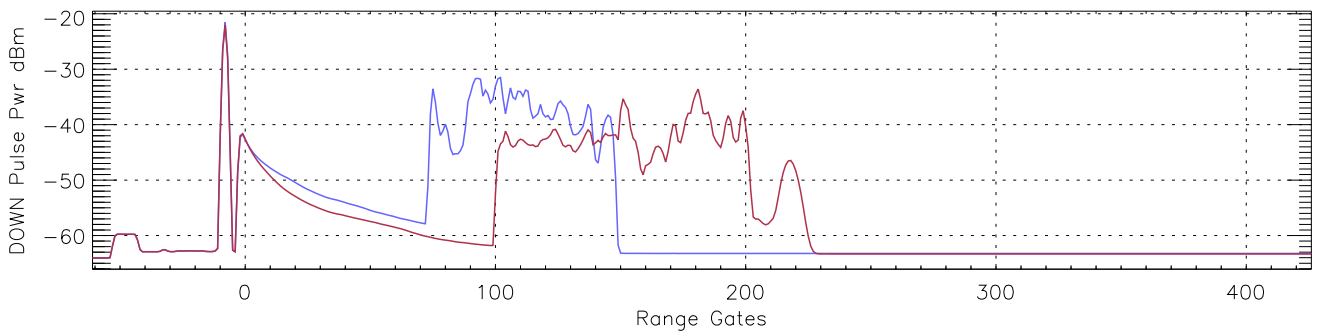
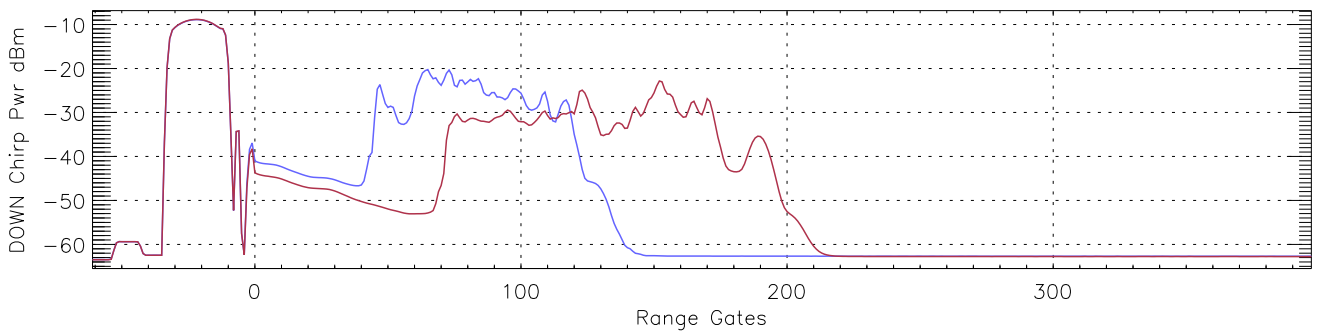
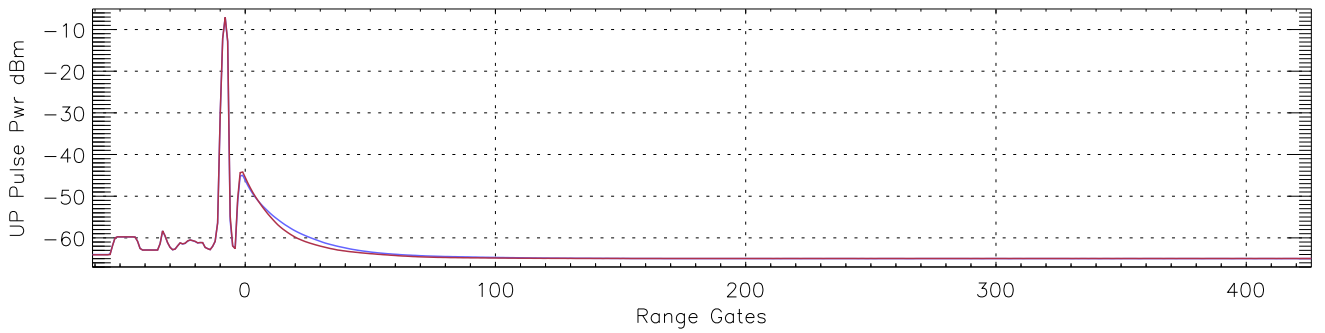
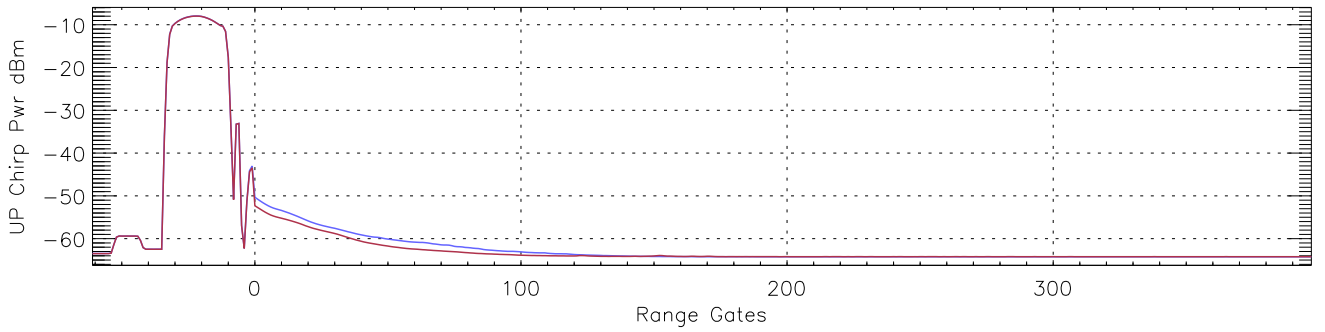
KPR SPP Last range gate PPMAG: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-99.82	-74.21	-79.70	-79.94	-82.53
UP Pulse(dBm)	-96.87	-75.53	-80.46	-80.74	-83.28
DOWN Chirp(dBm)	-96.27	-73.25	-78.30	-78.60	-81.06
DOWN Pulse(dBm)	-97.95	-73.33	-78.76	-79.03	-81.60

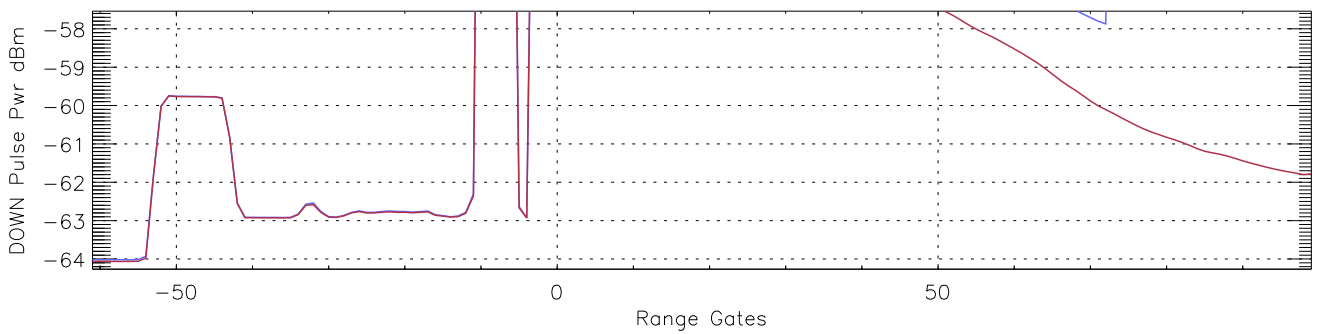
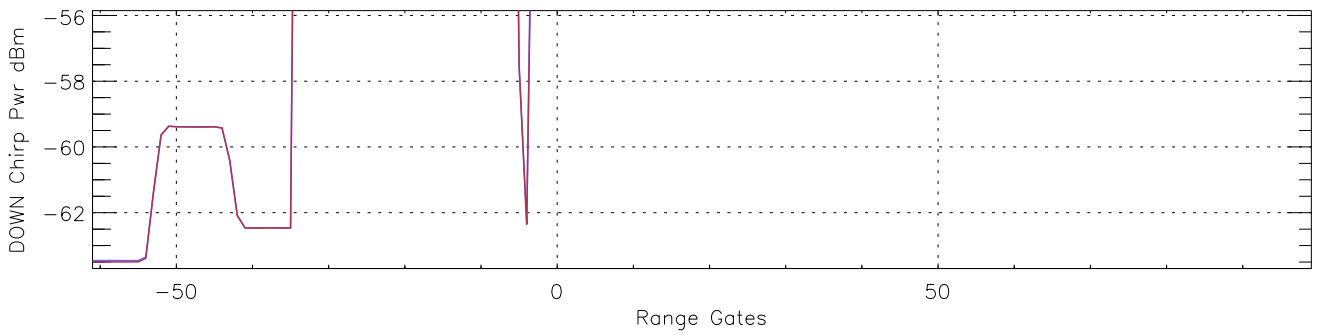
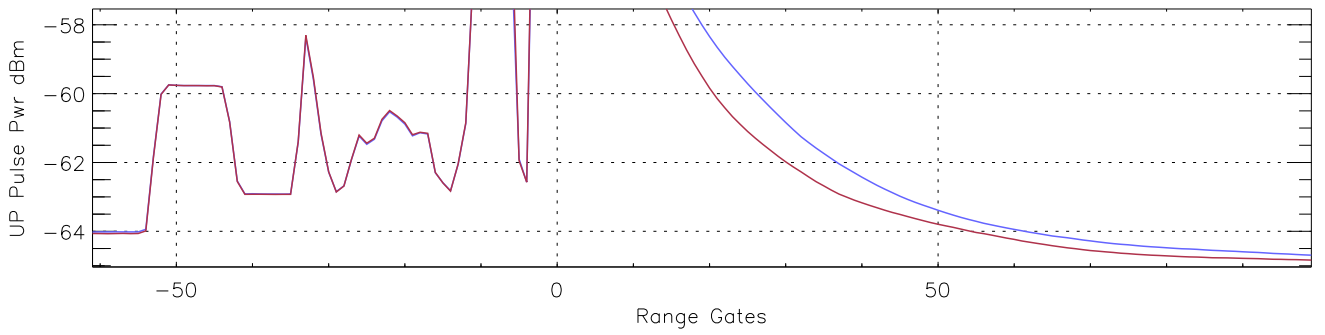
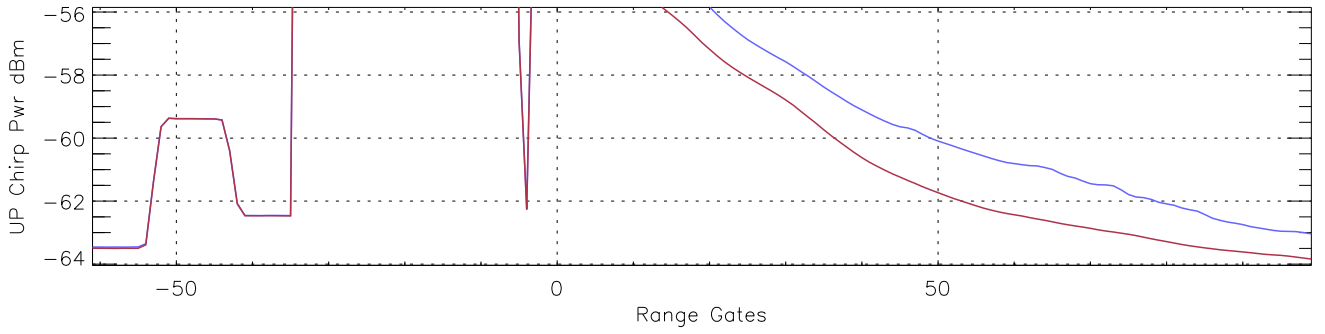


KPR SPP "Best" PPMAG noise (dBm):

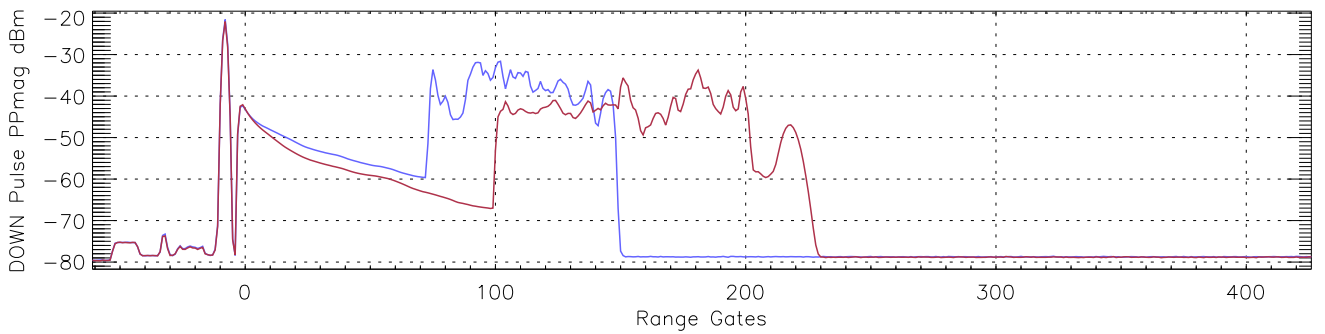
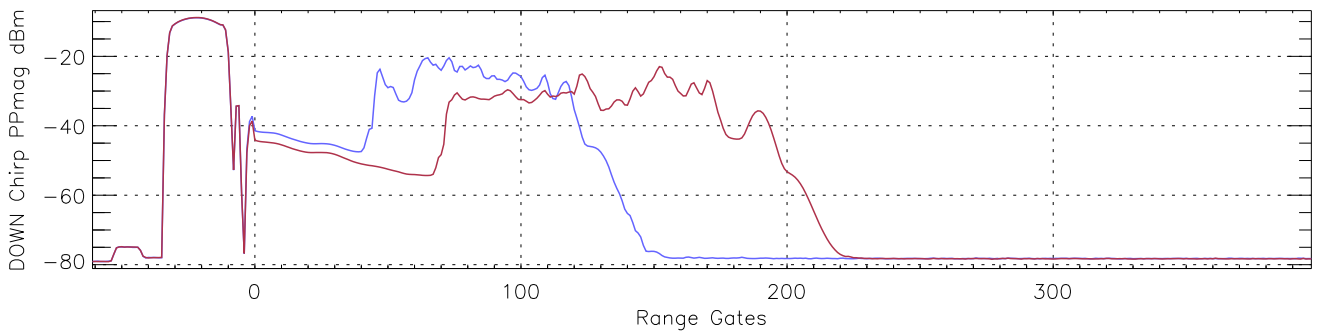
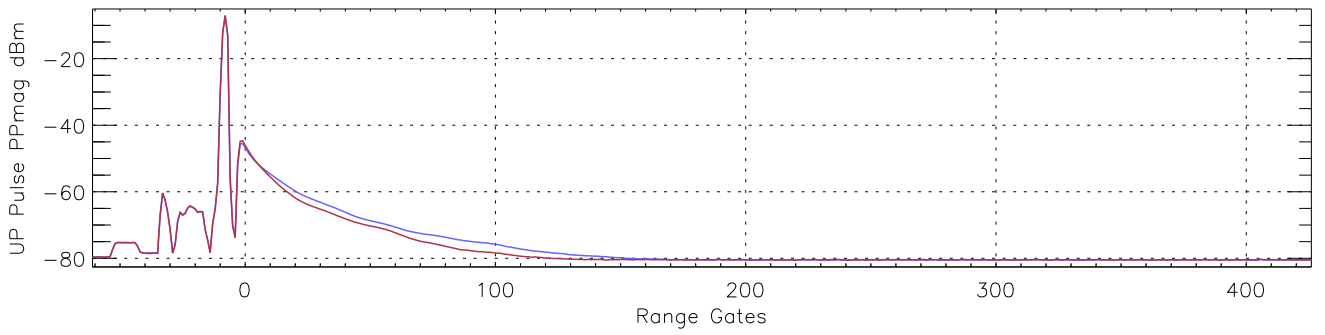
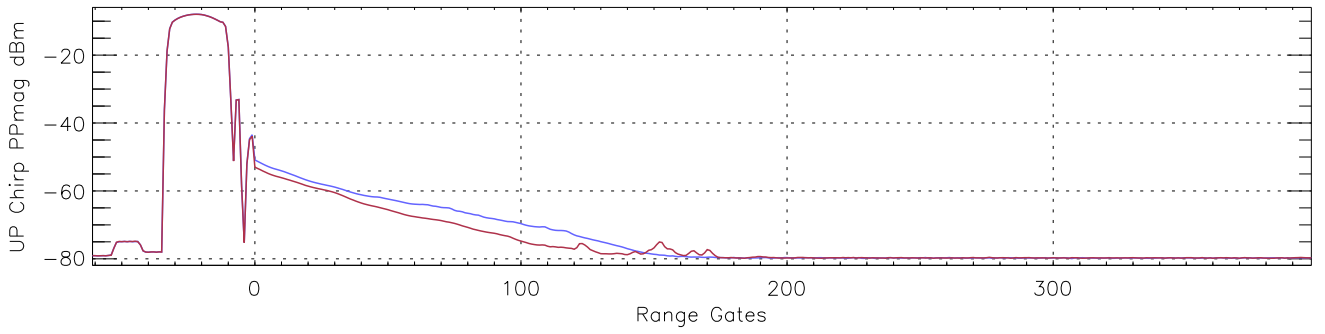
	Min	Max	Mean	Median	StDev
UP_C_RG391_0	-99.89	-74.48	-79.70	-79.94	-82.54
UP_P_RG234_0	-96.99	-74.61	-80.44	-80.71	-83.23
DOWN_C_RG353_4	-98.16	-72.42	-78.26	-78.48	-81.13
DOWN_P_RG275_5	-99.47	-72.99	-78.83	-79.10	-81.61



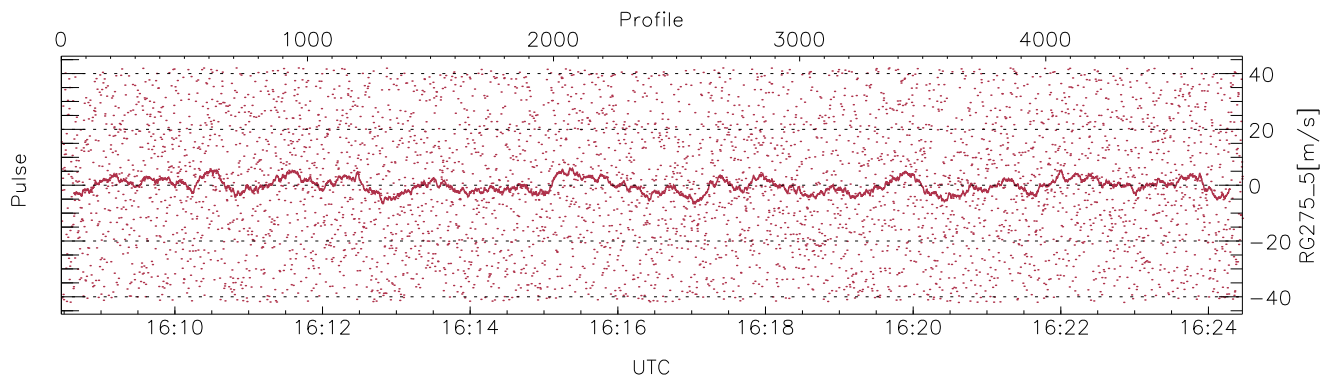
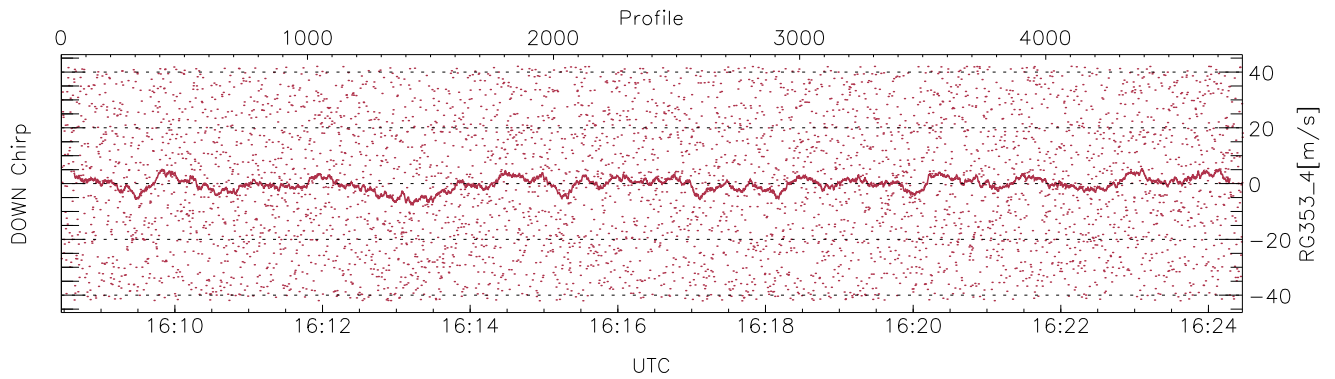
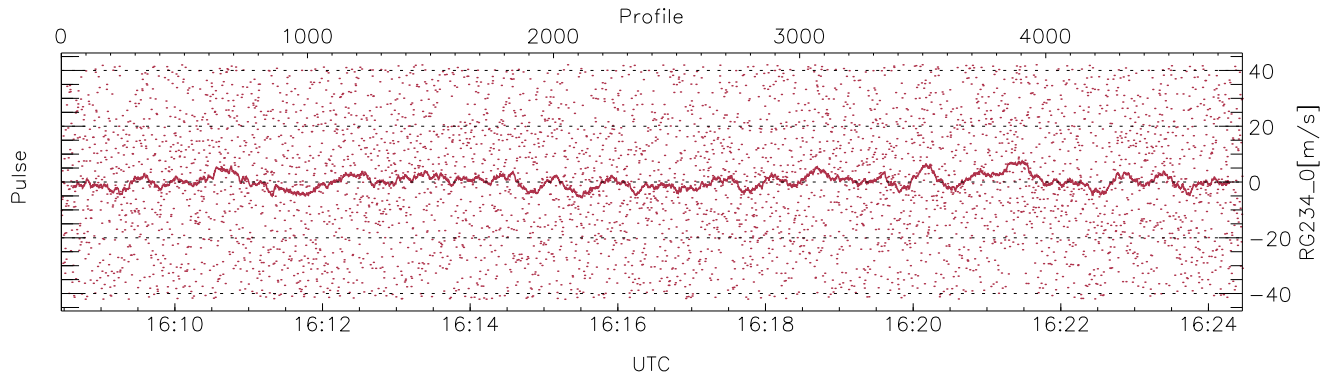
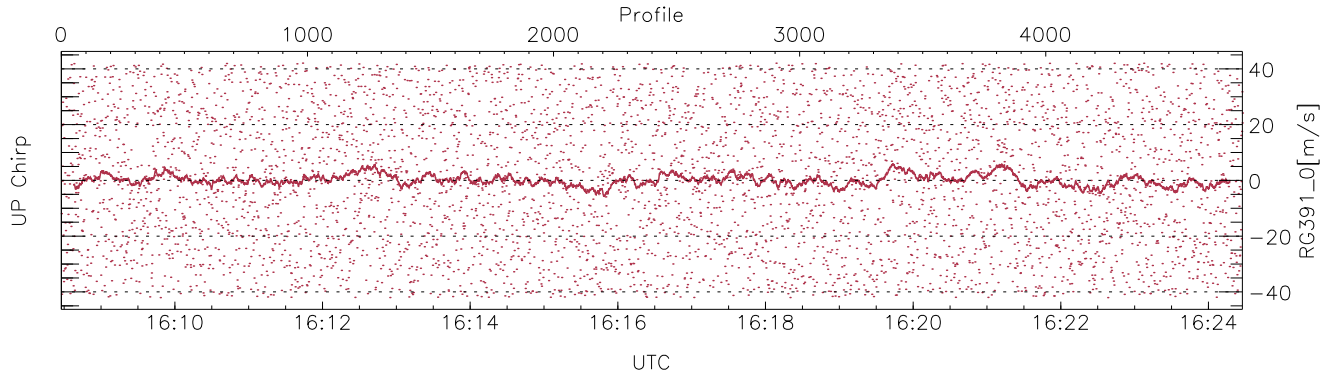
KPR SPP Averaged Received power for all recorded gates
blue: 160828-161627, 2401 profiles averaged
red: 161627-162428, 2400 profiles averaged



KPR SPP Averaged Power for neg. gates & up to 100 gates
blue: 160828-161627, 2401 profiles averaged
red: 161627-162428, 2400 profiles averaged

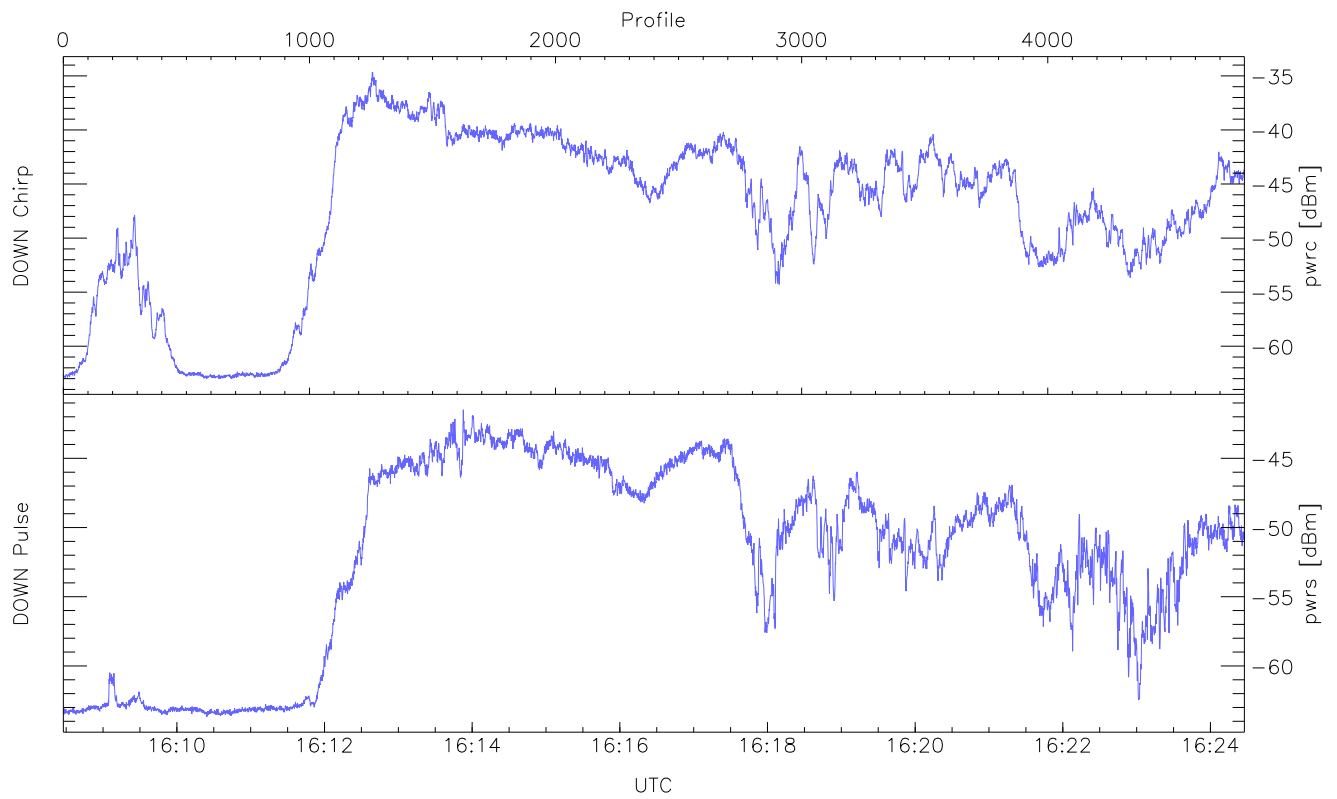
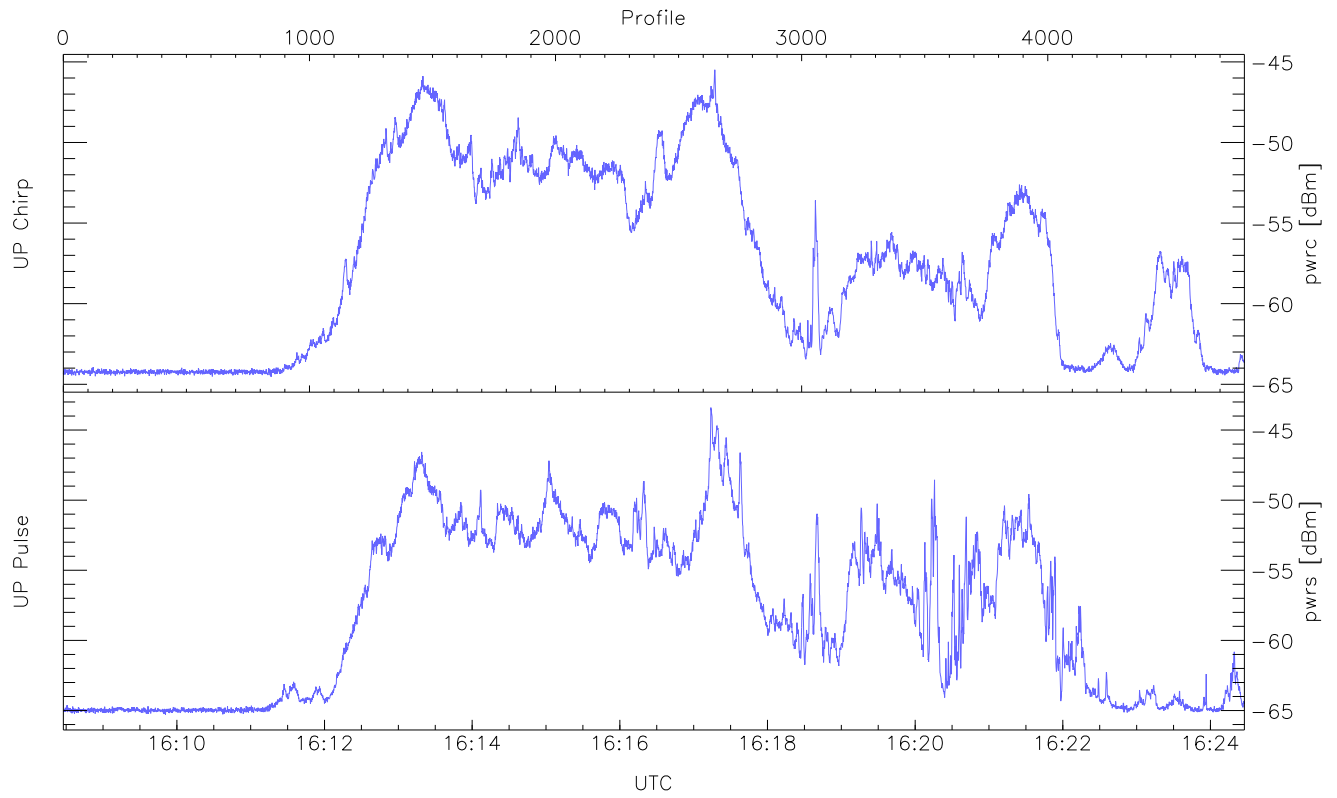


KPR SPP Averaged PP magnitude for all recorded gates
blue: 160828-161627, 2401 profiles averaged
red: 161627-162428, 2400 profiles averaged



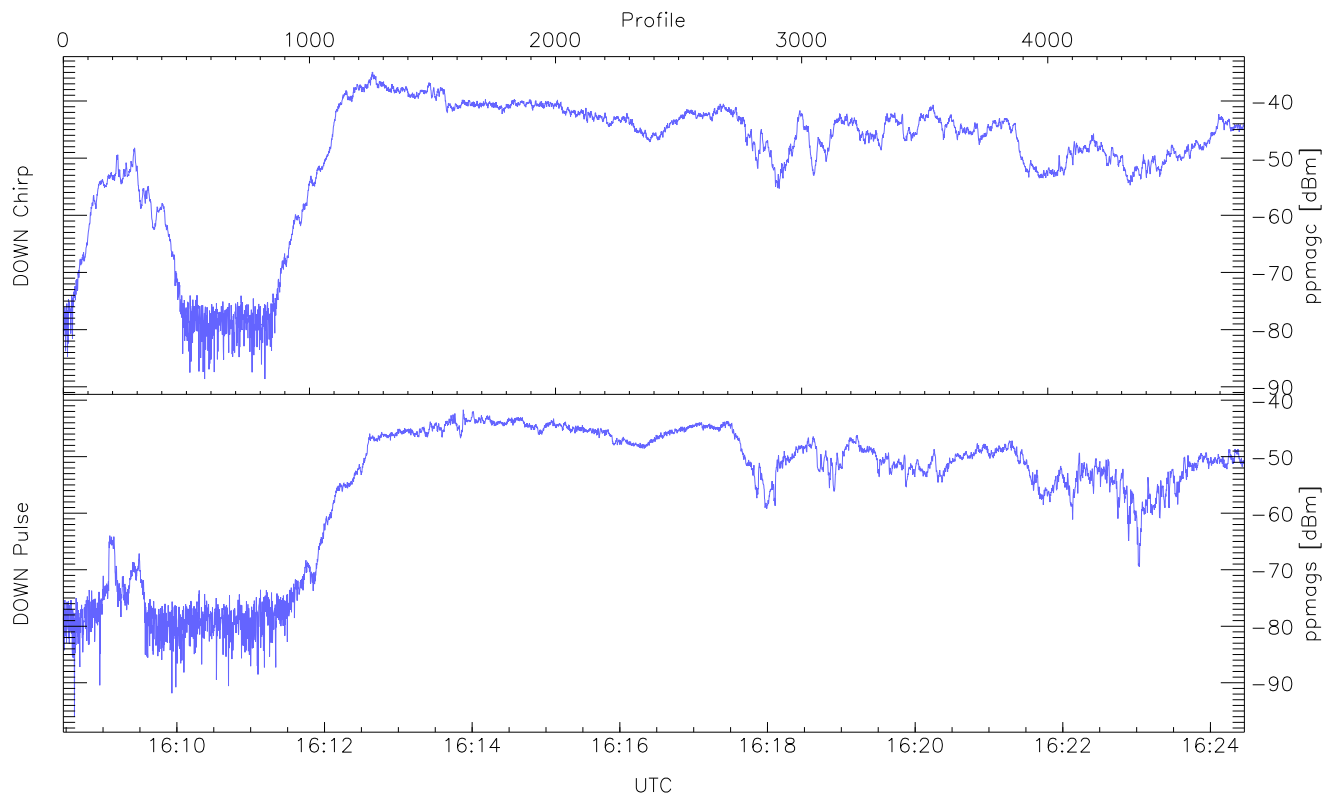
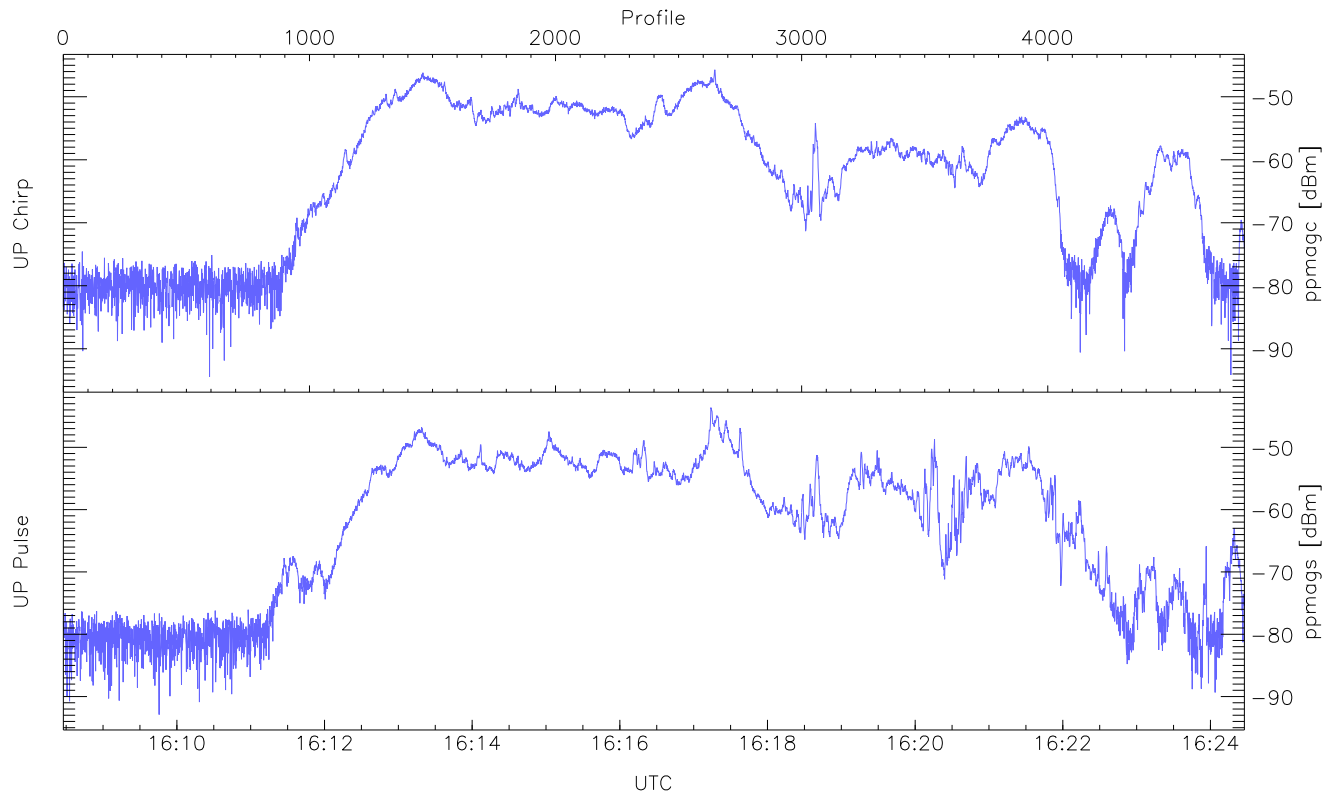
KPR SPP "Best" PPVEL noise (m/s):

	Min	Max	Mean	Median	StDev
UP_C_RG391_0	-42.06	42.05	0.02	-0.38	24.16
UP_P_RG234_0	-42.04	42.06	0.05	0.04	22.86
DOWN_C_RG353_4	-42.04	42.05	-0.15	-0.16	24.24
DOWN_P_RG275_5	-42.01	42.02	-0.24	-0.53	23.27



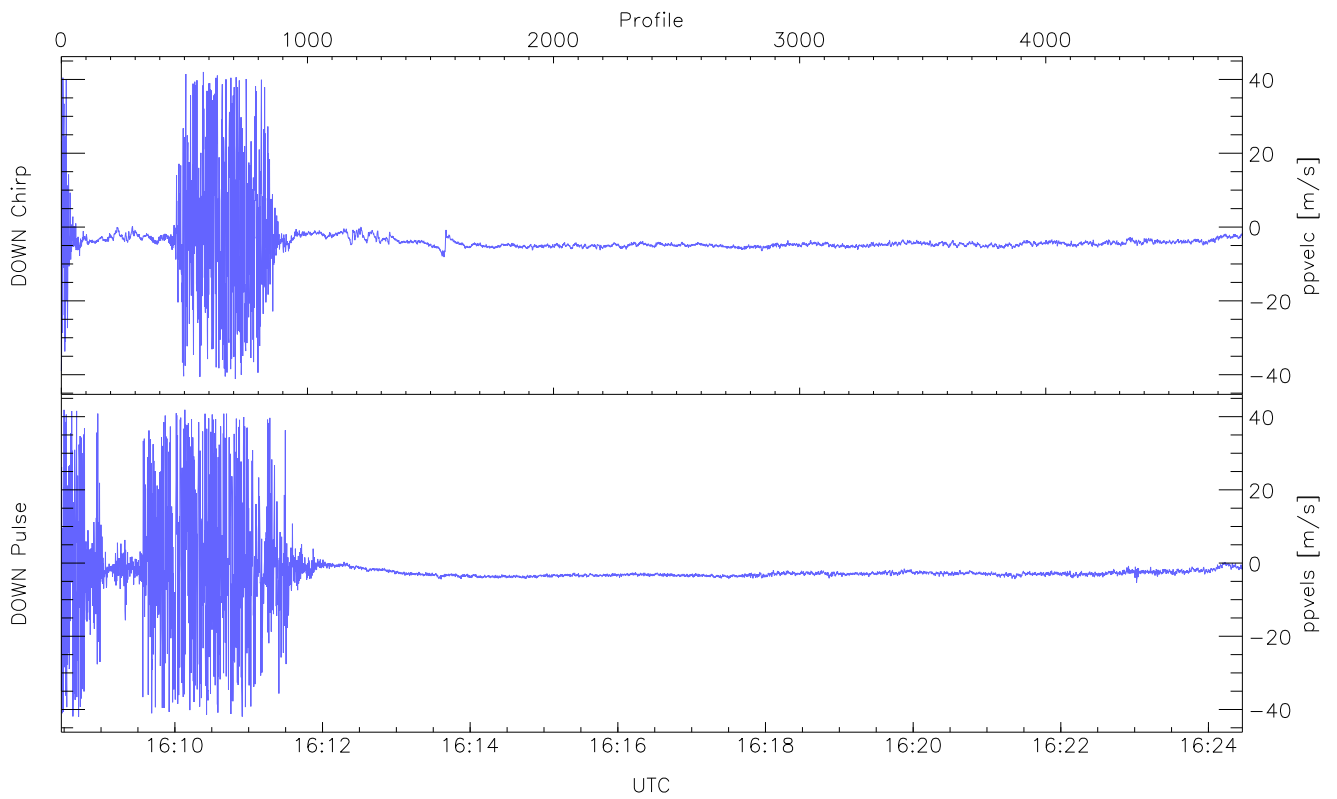
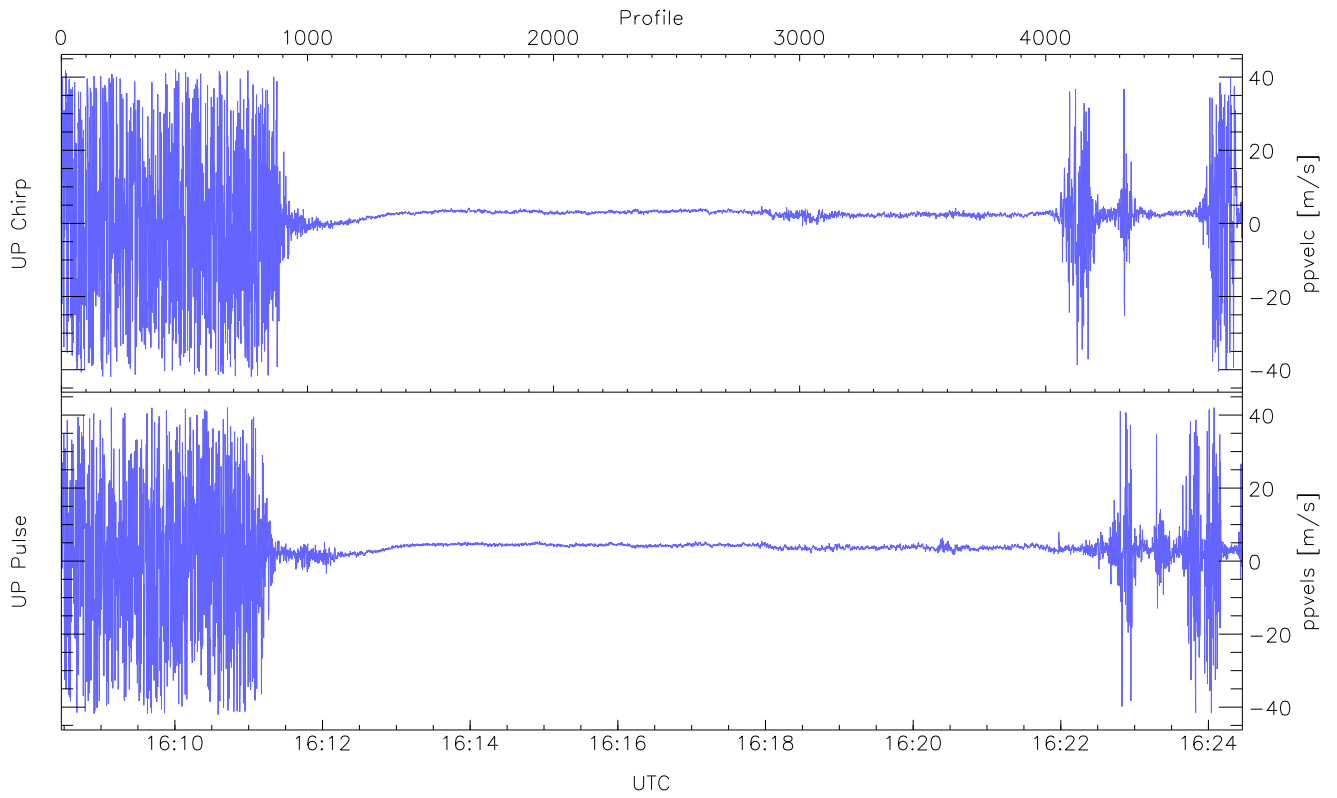
KPR SPP Received Power for Chirp Range gate 10 (686.2 m)
 KPR SPP Received Power for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-64.54	-45.49	-54.23
UP Pulse(dBm)	-65.29	-43.40	-54.49
DOWN Chirp(dBm)	-63.04	-34.64	-43.51
DOWN Pulse(dBm)	-63.68	-41.49	-48.48



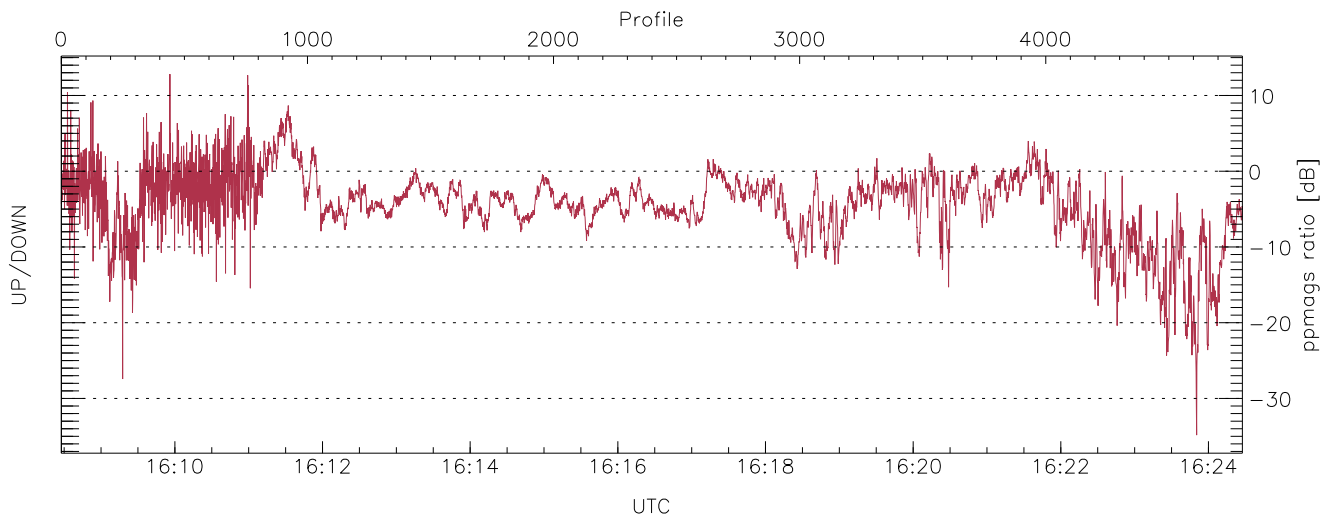
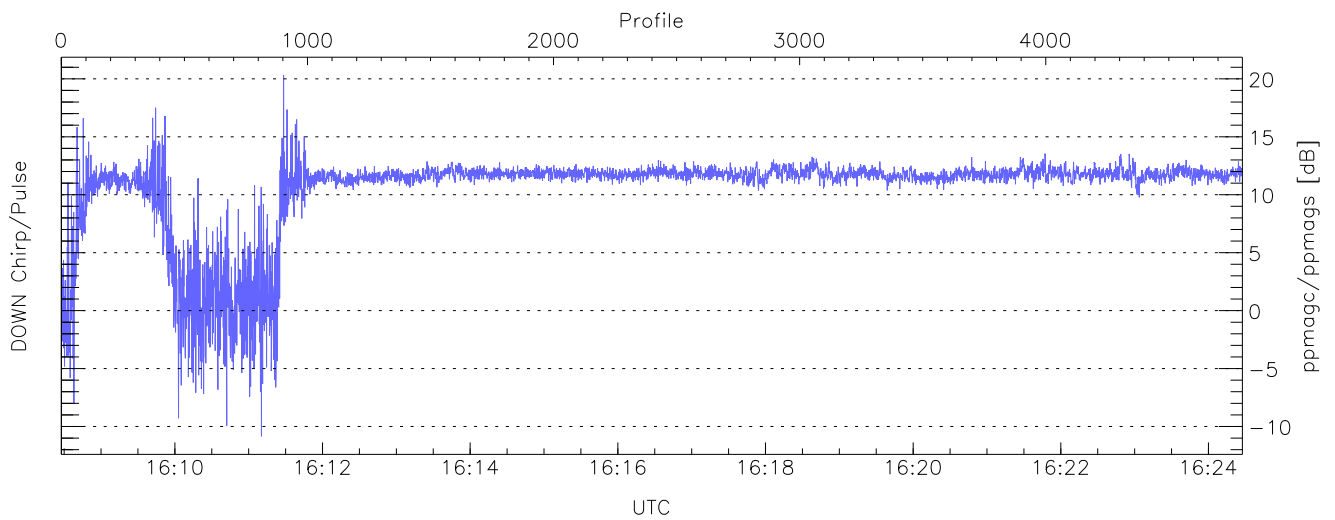
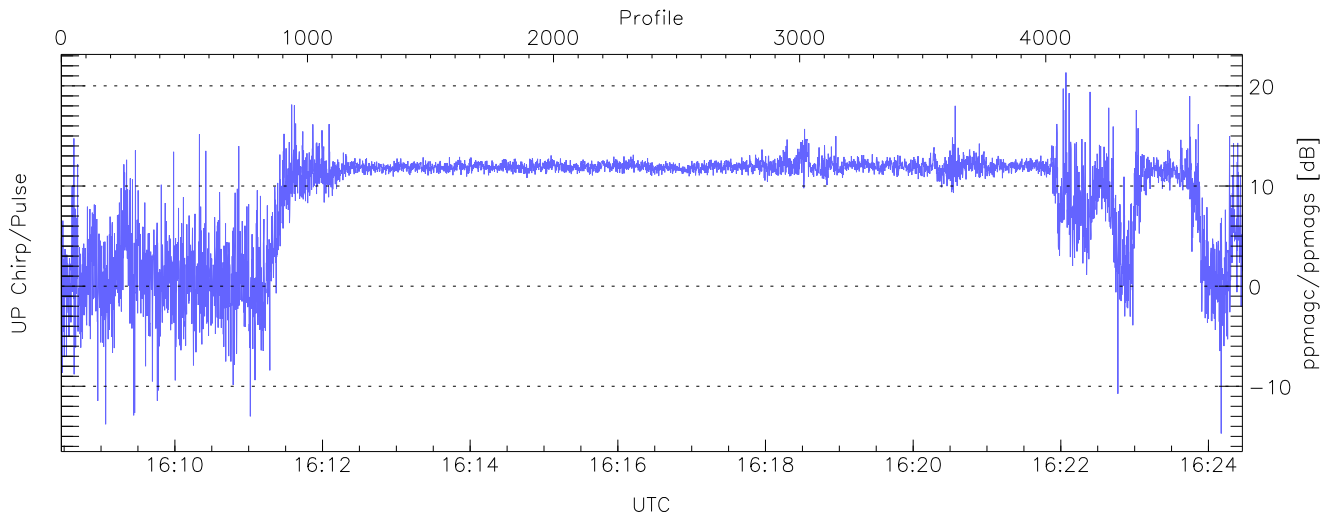
KPR SPP PPMAG for Chirp Range gate 10 (686.2 m)
 KPR SPP PPMAG for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-94.46	-45.71	-54.98
UP Pulse(dBm)	-92.90	-43.62	-55.06
DOWN Chirp(dBm)	-88.64	-34.92	-43.85
DOWN Pulse(dBm)	-96.02	-41.70	-48.78



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)	-41.95	42.00	1.89
UP Pulse(m/s)	-42.05	42.06	3.01
DOWN Chirp(m/s)	-41.18	42.02	-3.88
DOWN Pulse(m/s)	-42.00	41.89	-2.24



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

	Min	Max	Mean
UP Chirp/Pulse(dBm)	-14.72	21.34	10.84
DOWN Chirp/Pulse(dBm)	-10.85	20.31	11.29
UP/DOWN Ratio at Range 135.8 m			
	Min	Max	Mean
UP/DOWN(dB)	-34.84	12.82	-2.38