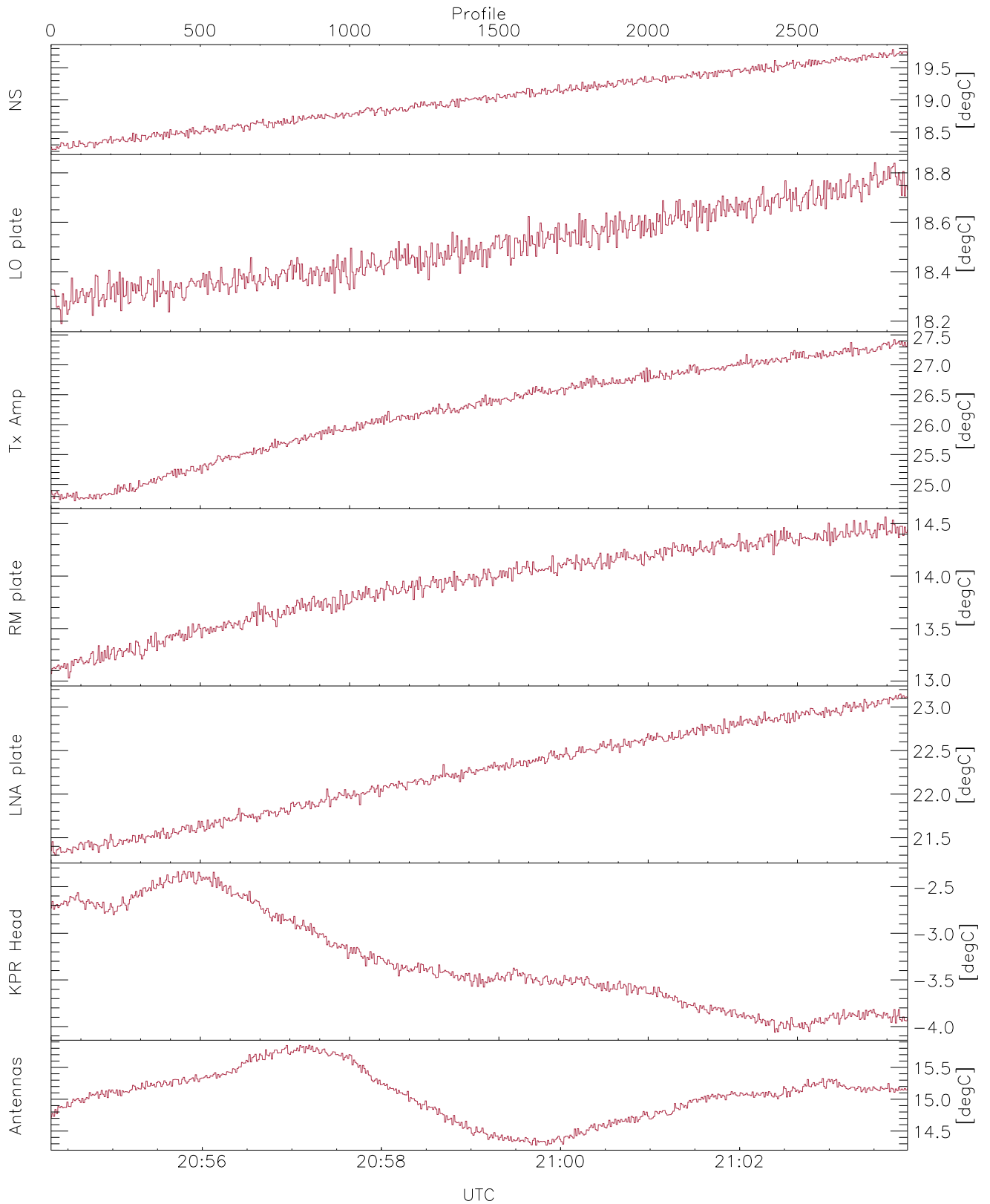


KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF
 UTC: 20:54:19-21:03:52, TimeCor: 0.00s, Dur: 573.85s
 TimeInt(min,max,mn,std): 196.7,203.3,200.0,0.1 ms; PPS: 5.0
 NumRec(r/t): 2870/2870, 0-2869/20:54:19-21:03:52
 AcqTime(req,actual): 200.0,200.0 ms, Data Rate: 79.8 KB/s
 Pulse: 618 ns, Chirp: 6.18 us, DRxIF: 2.0 MHz
 PRF: 18.5 KHz, avgPulses: 1852, avgPP: 926
 NyquistVel: 38.9 m/s, RangeRes:75.0 m
 Pulse Range(min,max): 159, 6529 m, Gates: 171
 Chirp Range(min,max): 1210, 6494 m, Gates: 142
 RangeGateSampling: 37.5 m, Aspect: 2.1

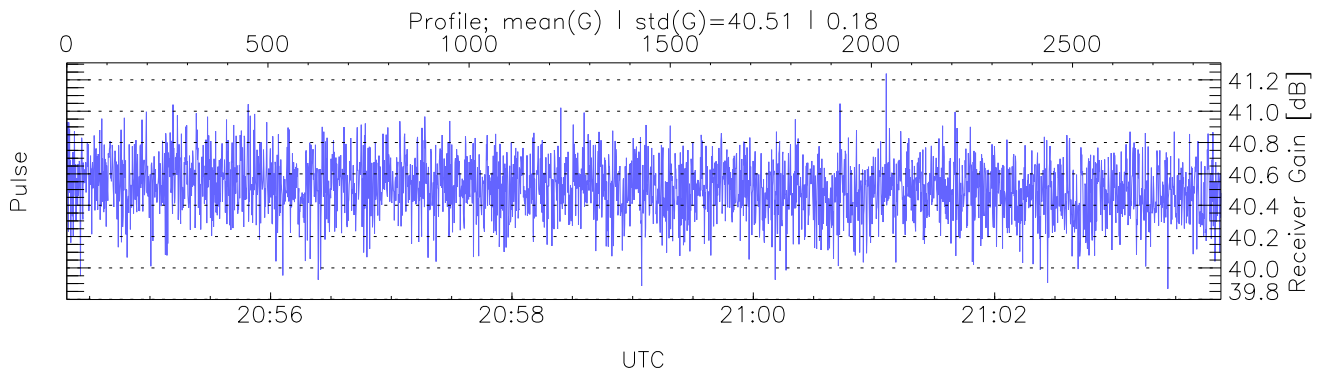
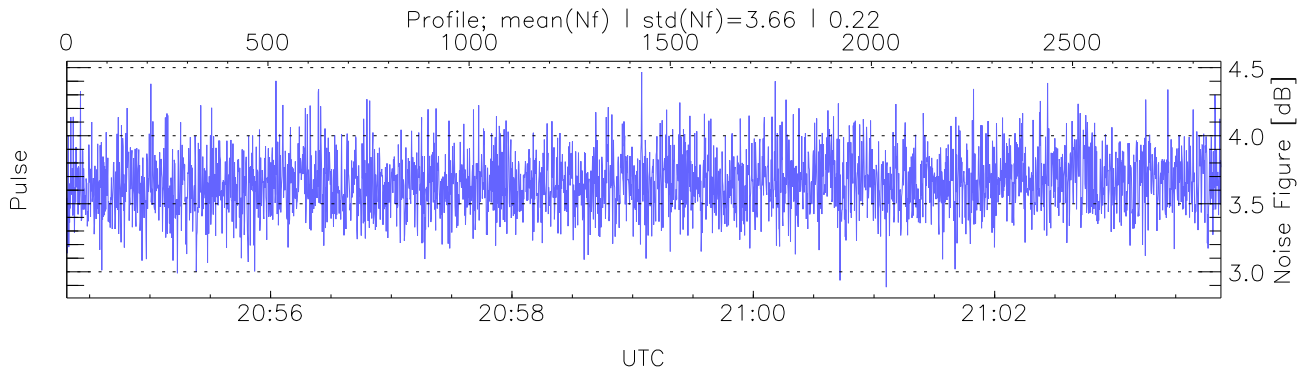
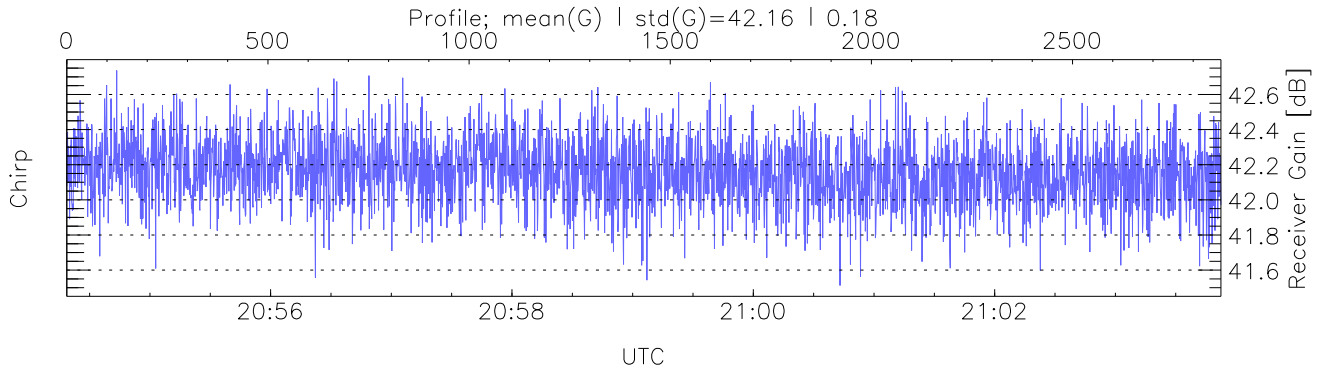
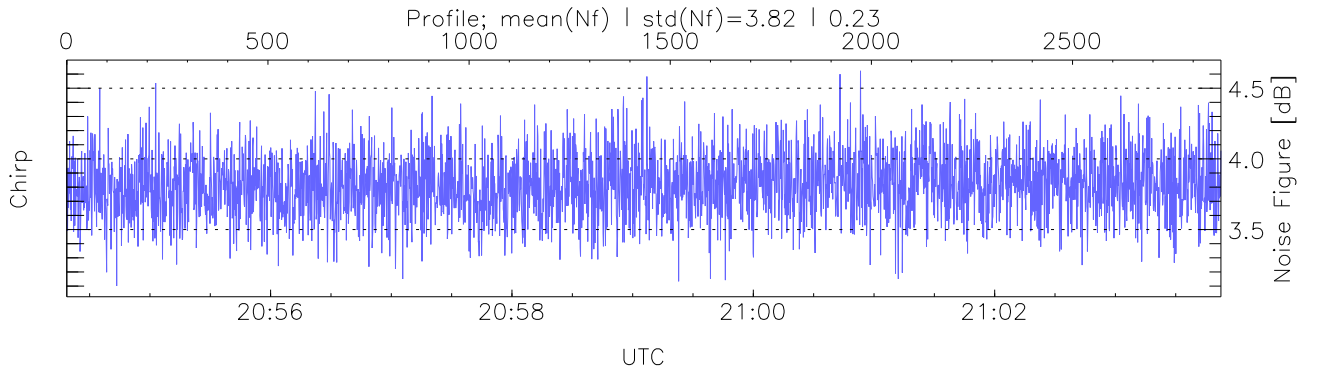


KPR SPP Temperatures, Power Supplies, PLO lock:

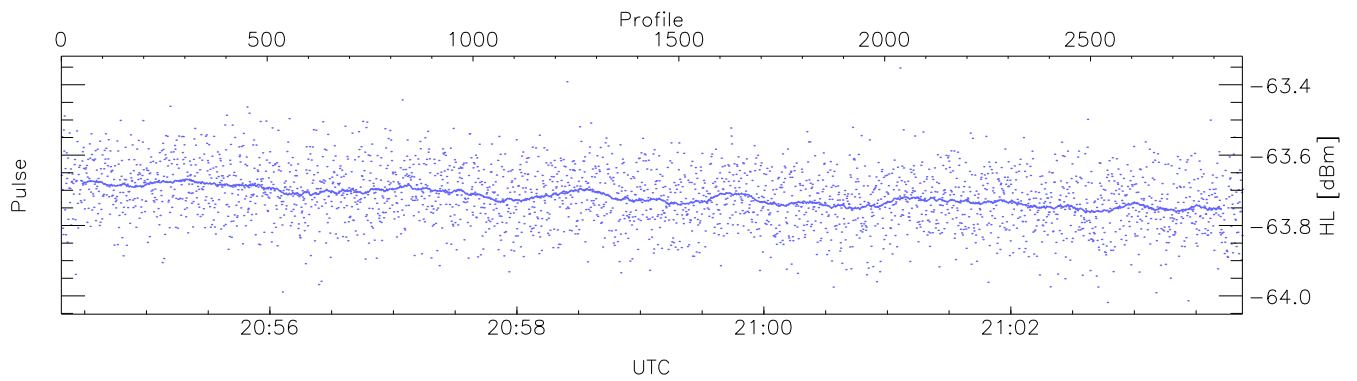
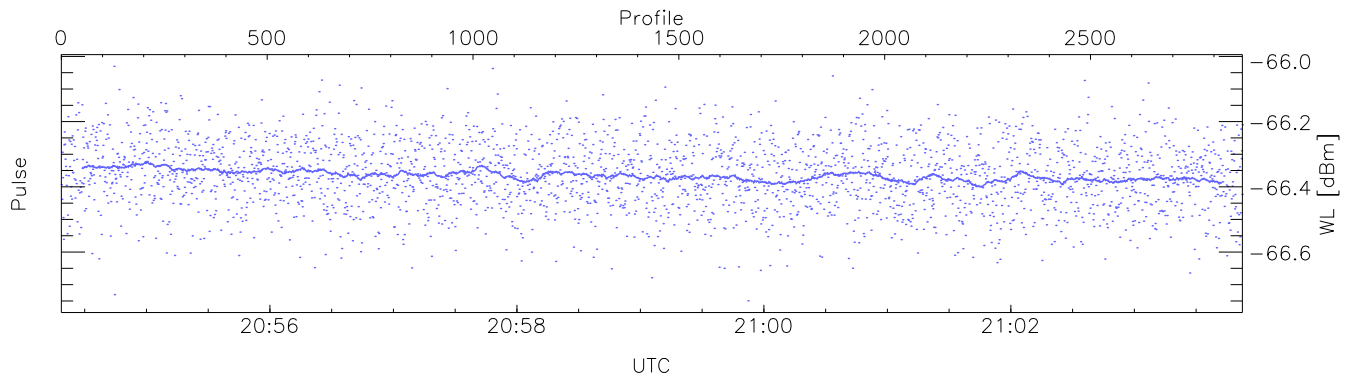
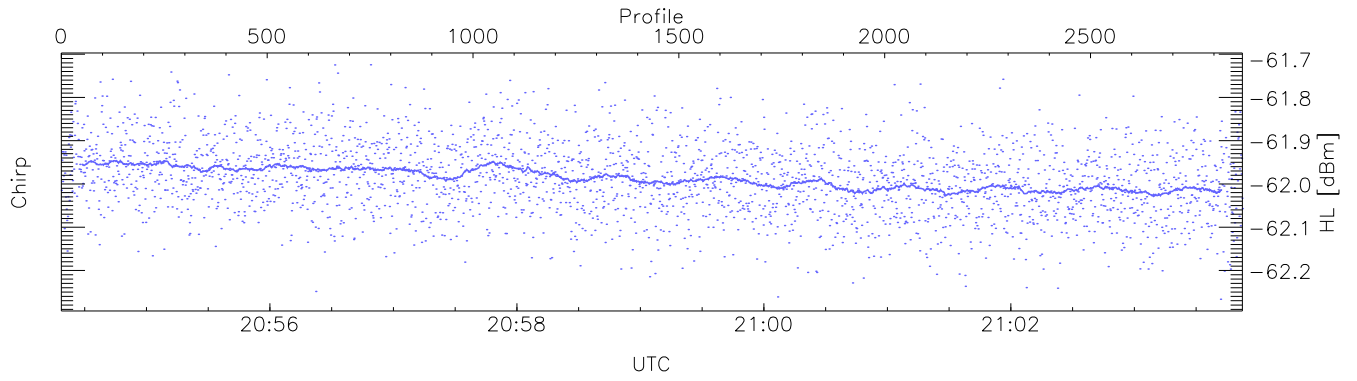
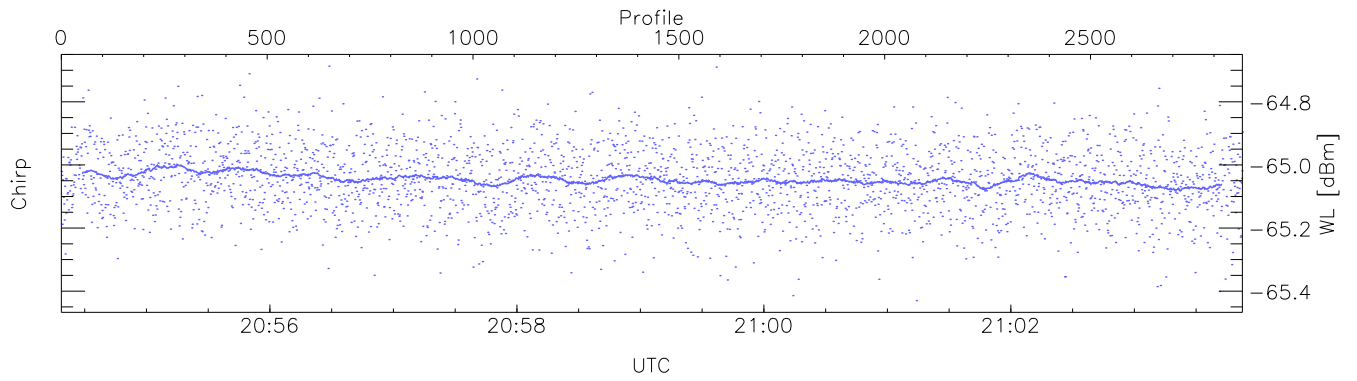
temperature: NS, LO, Tx, RM, LNA, Head, Ant
 mintempC: 18.2, 18.2, 24.7, 13.0, 21.3, -4.1, 14.3
 maxtempC: 19.8, 18.8, 27.4, 14.6, 23.1, -2.3, 15.8
 meantempC: 19.0, 18.5, 26.2, 13.9, 22.2, -3.3, 15.1

PwrSply: 28, 12, 8, 5 VDC
 minVDC: 25.97, 11.65, 7.87, 5.21
 maxVDC: 27.74, 11.72, 7.90, 5.23
 meanVDC: 26.98, 11.68, 7.88, 5.22

PLO(3.84,15.84 GHz) unlocked: None

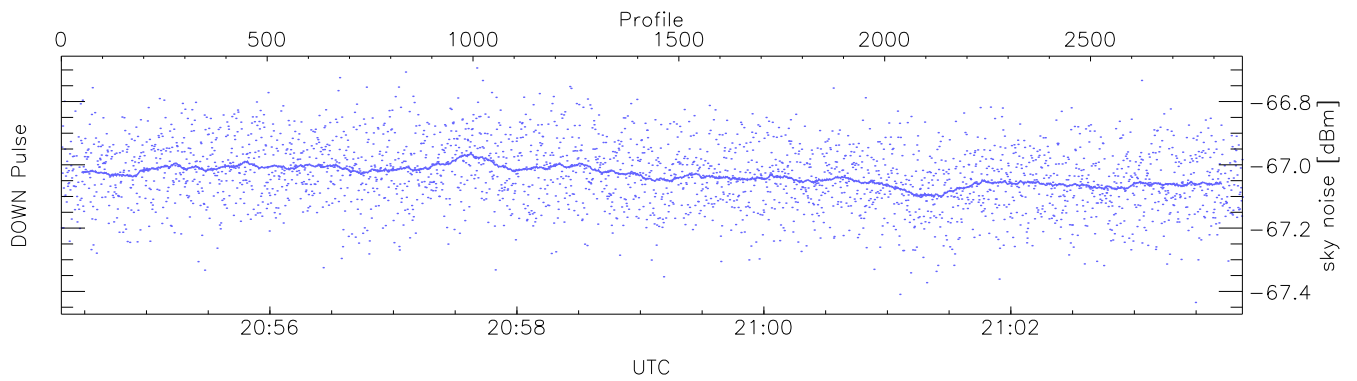
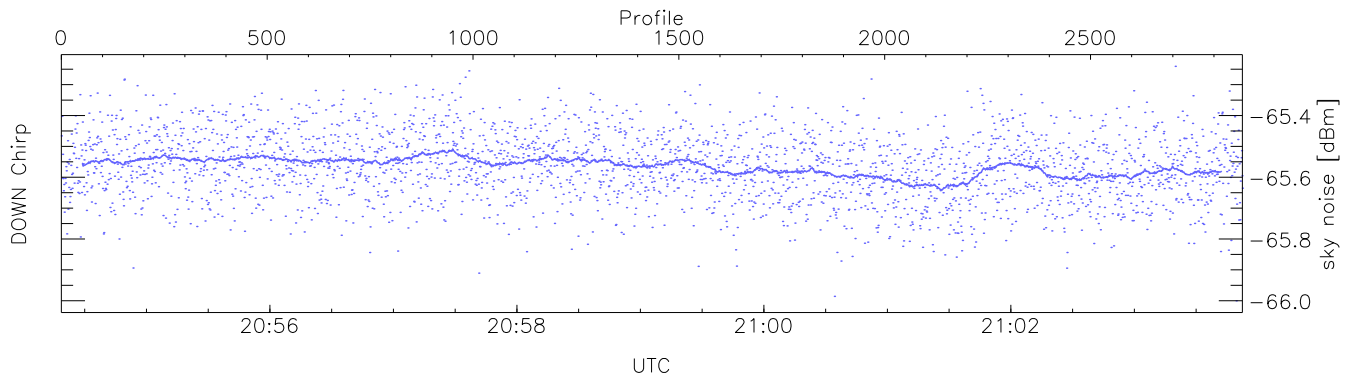
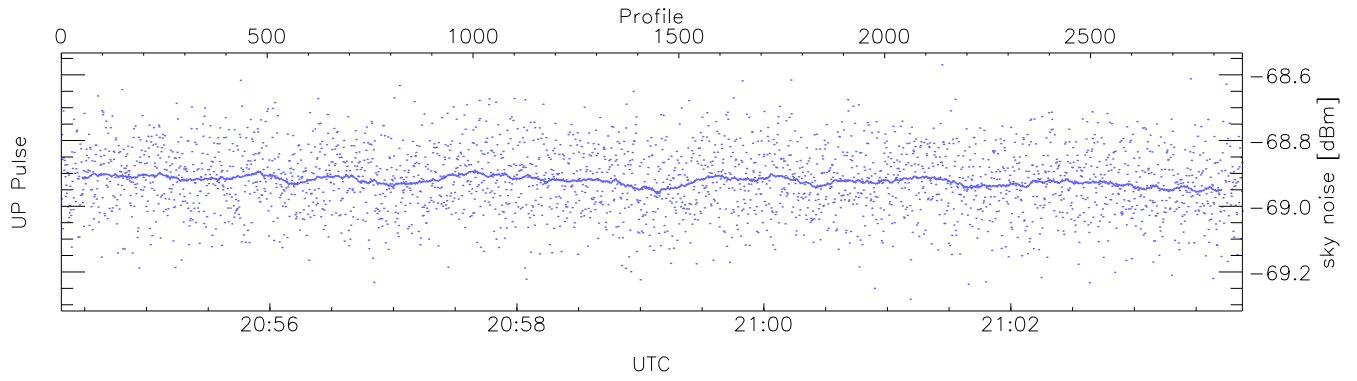
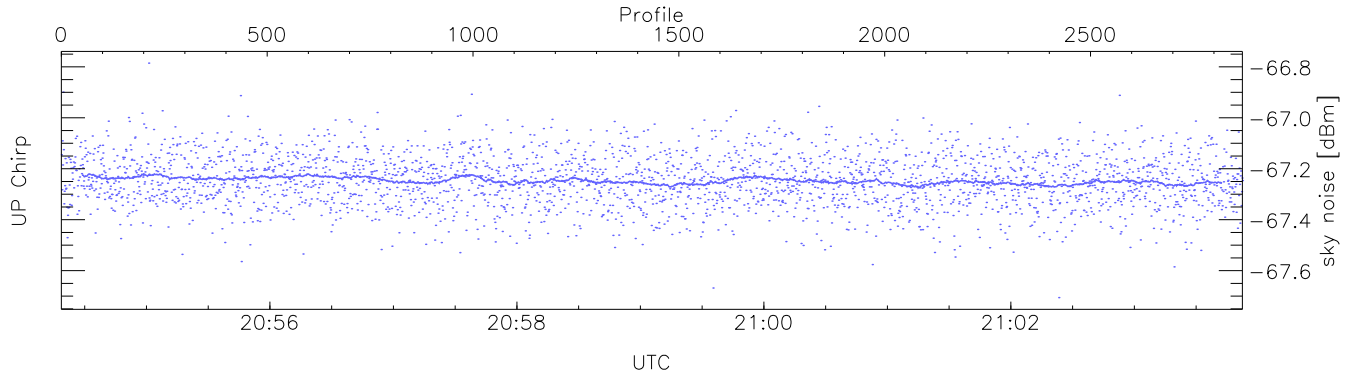


KPR SPP Receiver Gain and Noise Figure



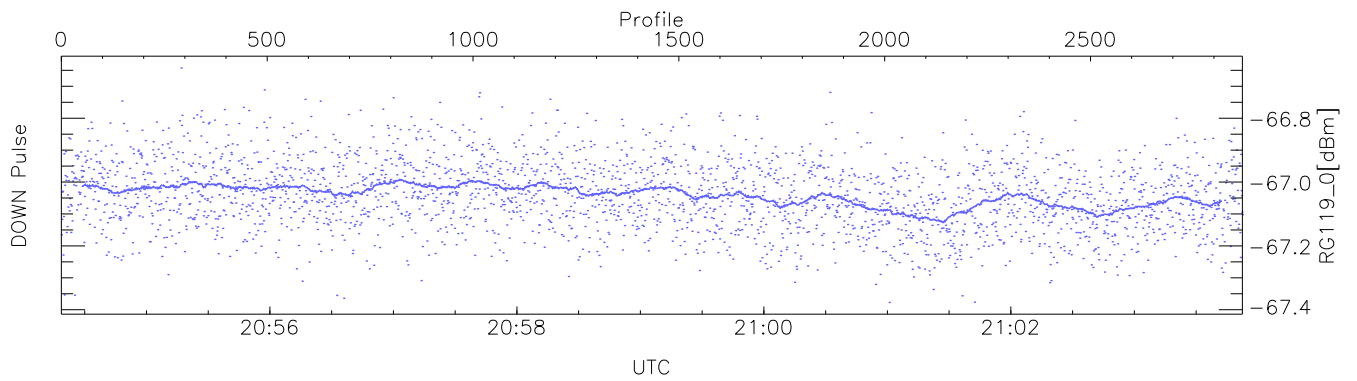
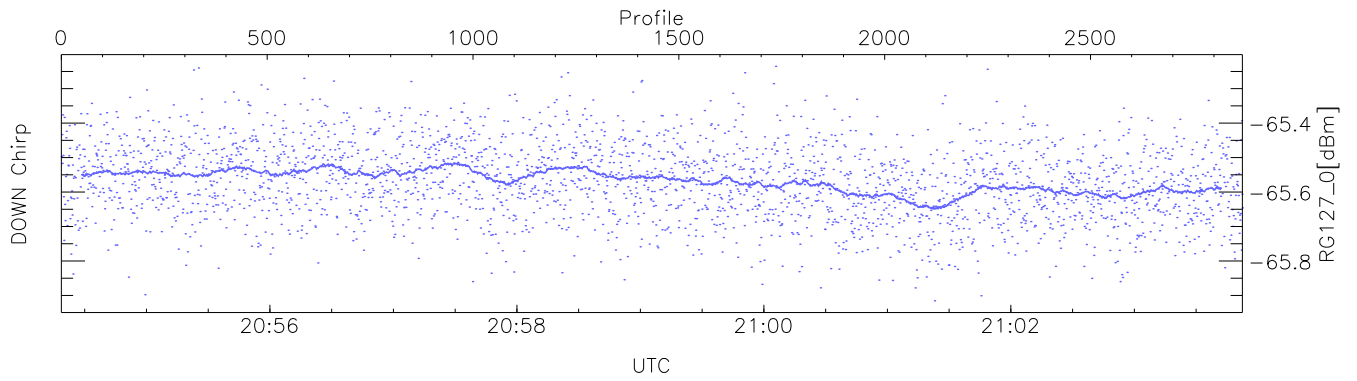
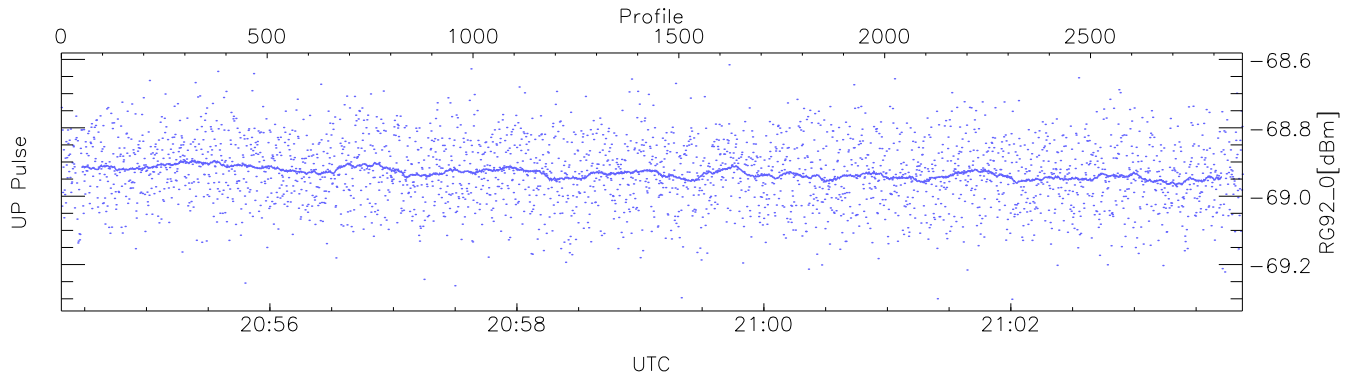
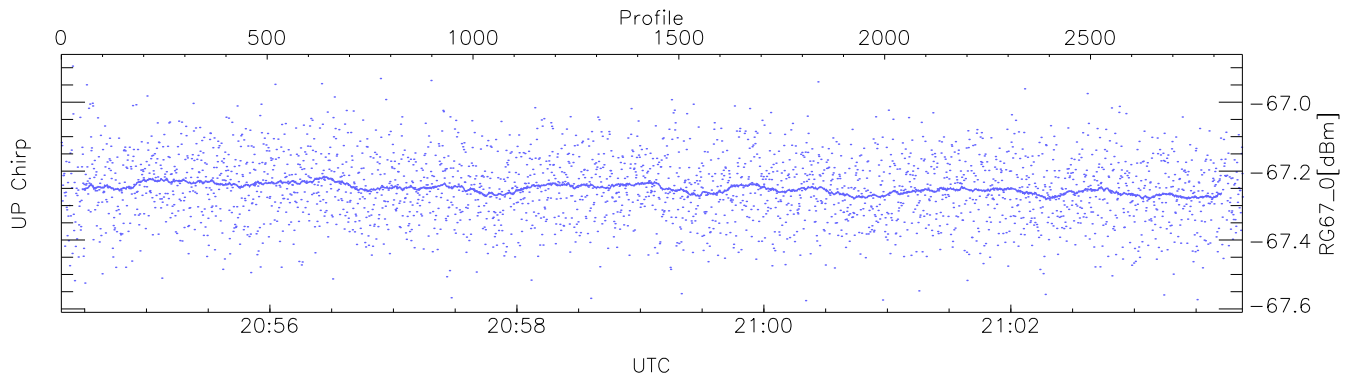
KPR SPP Receiver Noise Source Warm and Hot Measurements

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-65.43	-64.69	-65.04	-65.05	-81.26
Chirp(HL [dBm])	-62.27	-61.72	-61.99	-61.99	-79.15
Pulse(WL [dBm])	-66.75	-66.03	-66.36	-66.37	-82.70
Pulse(HL [dBm])	-64.02	-63.35	-63.72	-63.72	-80.79



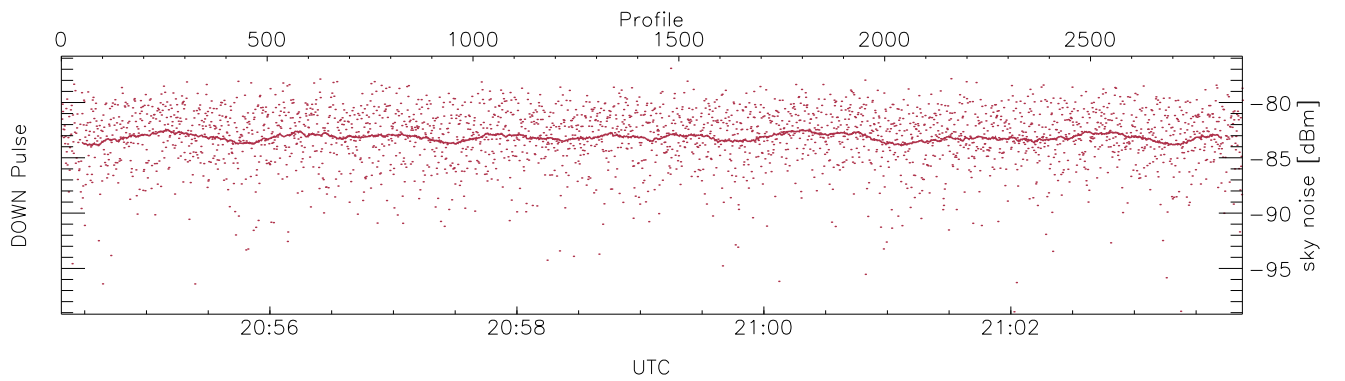
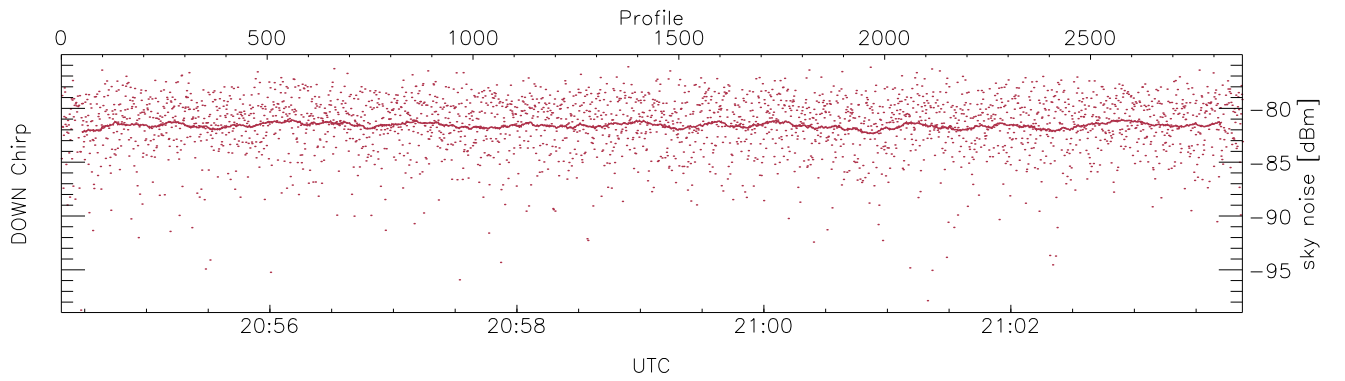
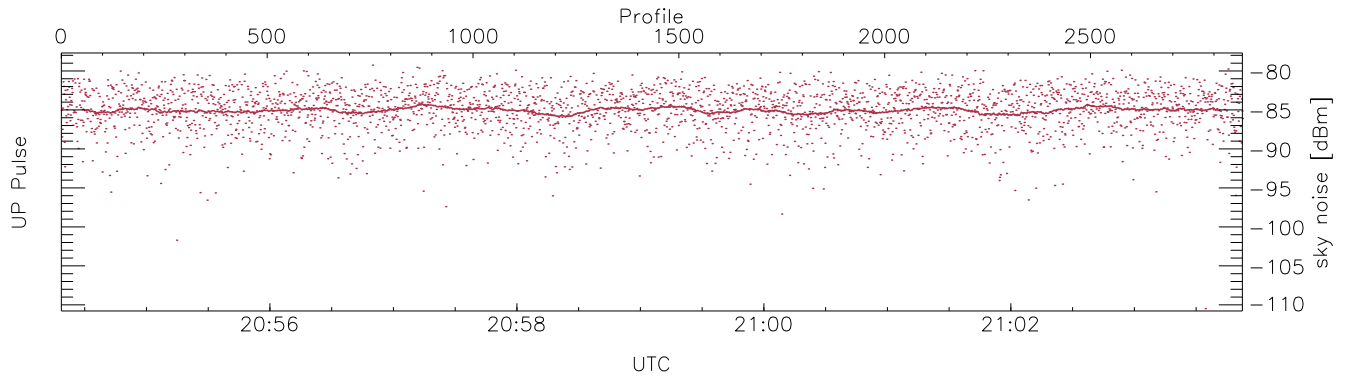
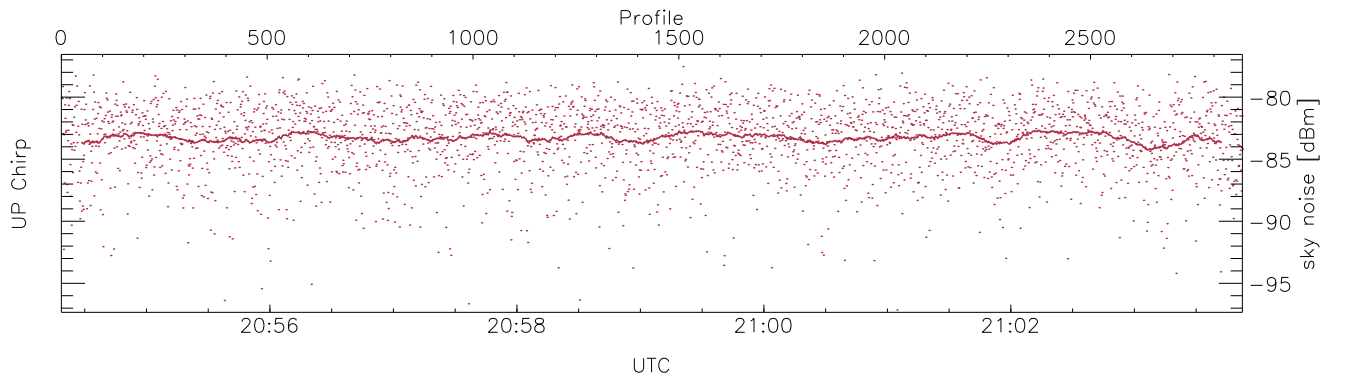
KPR SPP Last range gate power measurements: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-67.71	-66.79	-67.25	-67.25	-83.59
UP Pulse(dBm)	-69.28	-68.57	-68.92	-68.92	-85.20
DOWN Chirp(dBm)	-66.00	-65.24	-65.56	-65.56	-81.69
DOWN Pulse(dBm)	-67.43	-66.69	-67.03	-67.03	-83.18



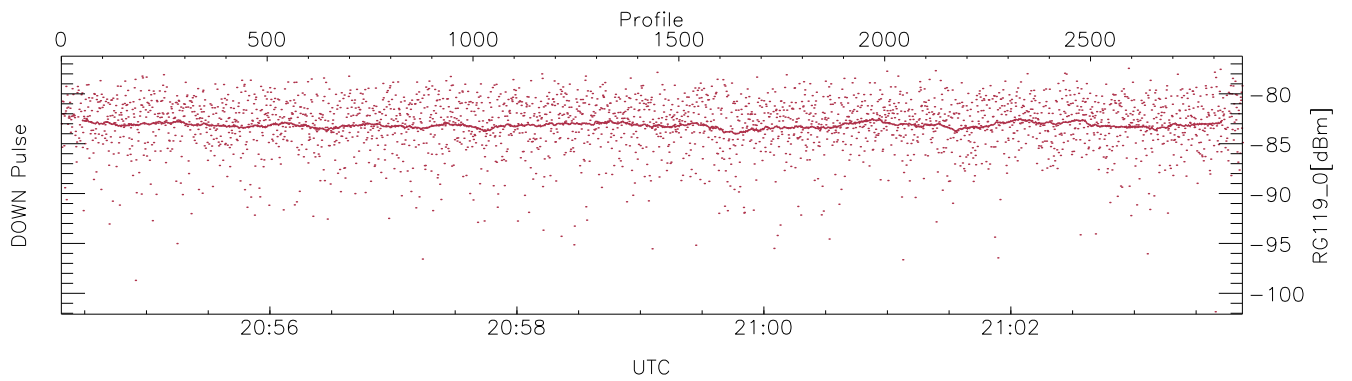
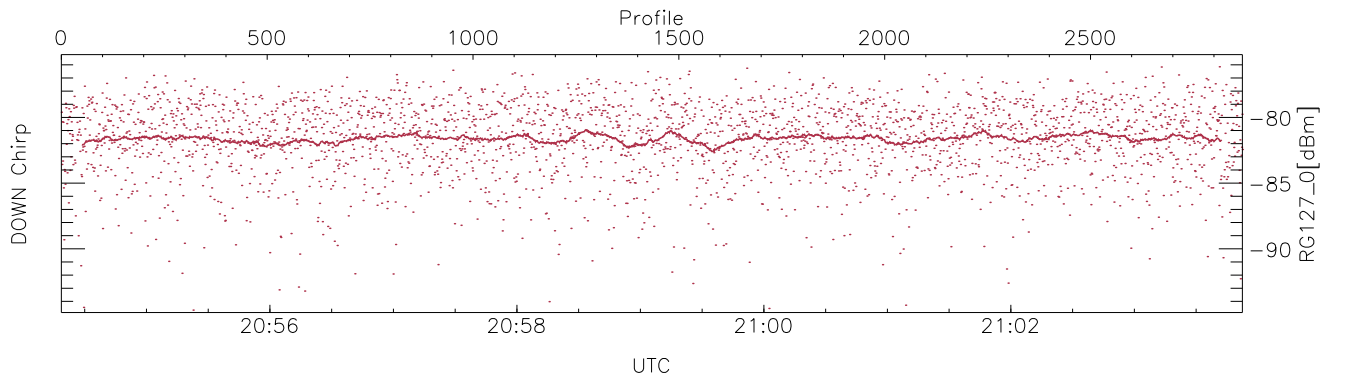
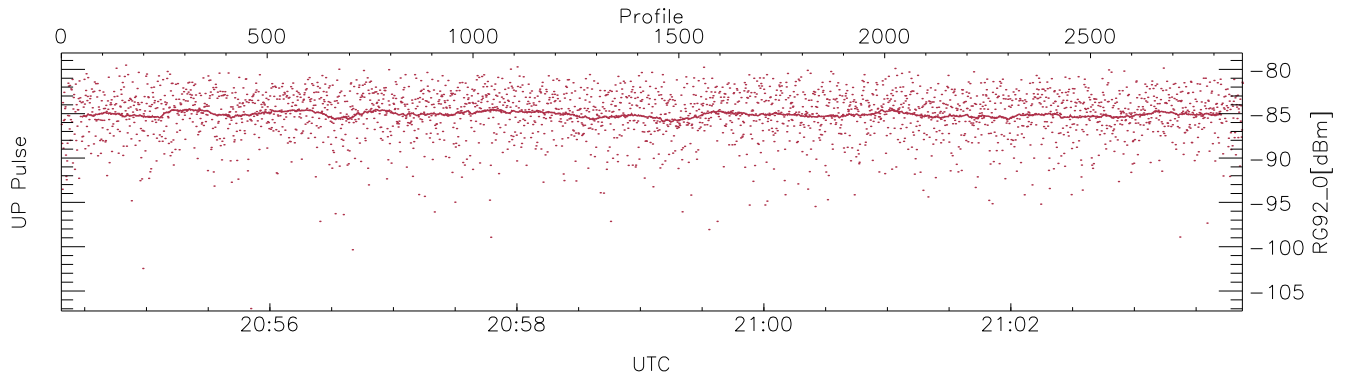
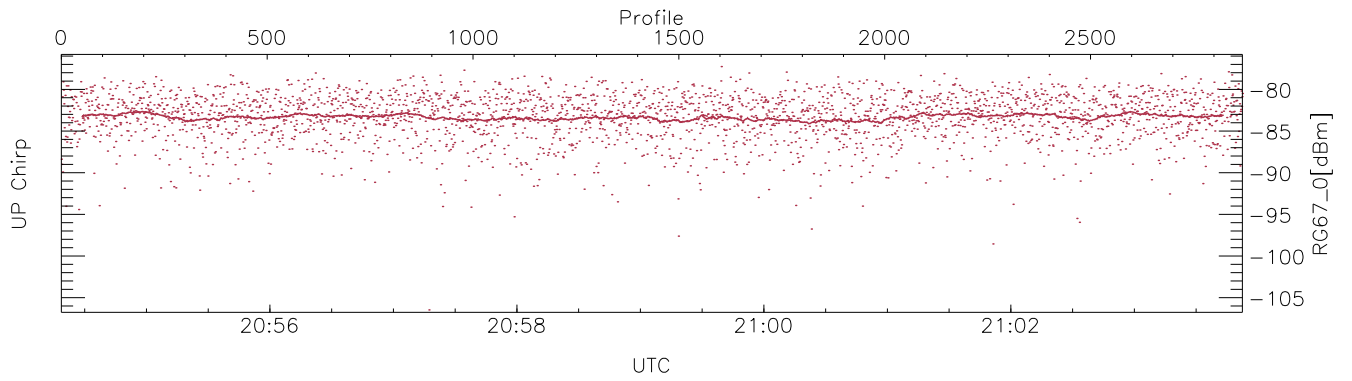
KPR SPP "Best" noise power measurements (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RG67_0	-67.58	-66.90	-67.25	-67.25	-83.61
UP_P_RG92_0	-69.30	-68.62	-68.93	-68.93	-85.28
DOWN_C_RG127_0	-65.92	-65.24	-65.57	-65.57	-81.67
DOWN_P_RG119_0	-67.38	-66.64	-67.04	-67.05	-83.17



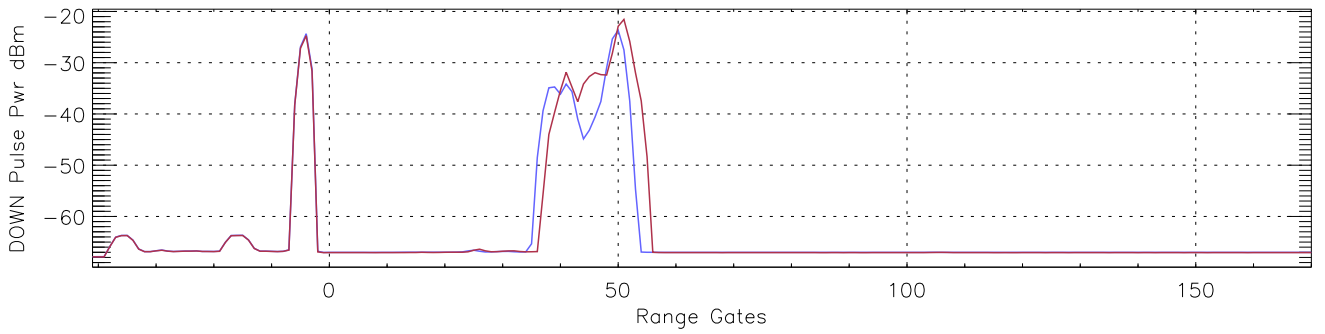
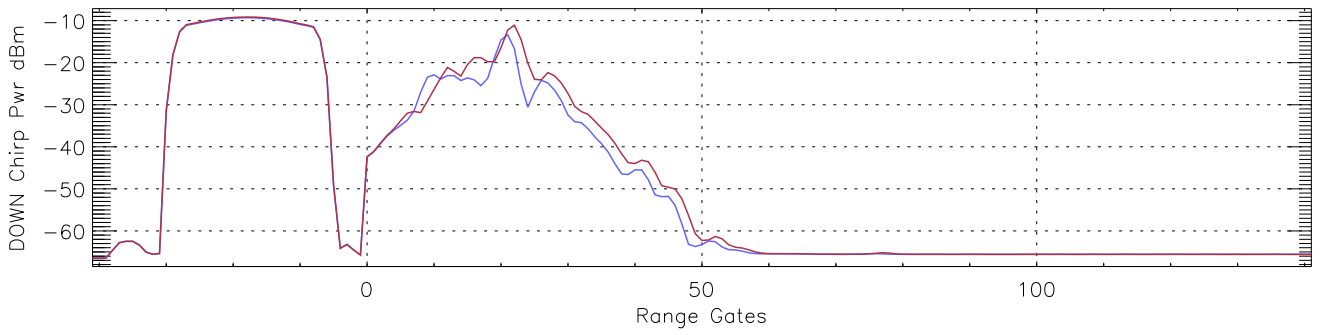
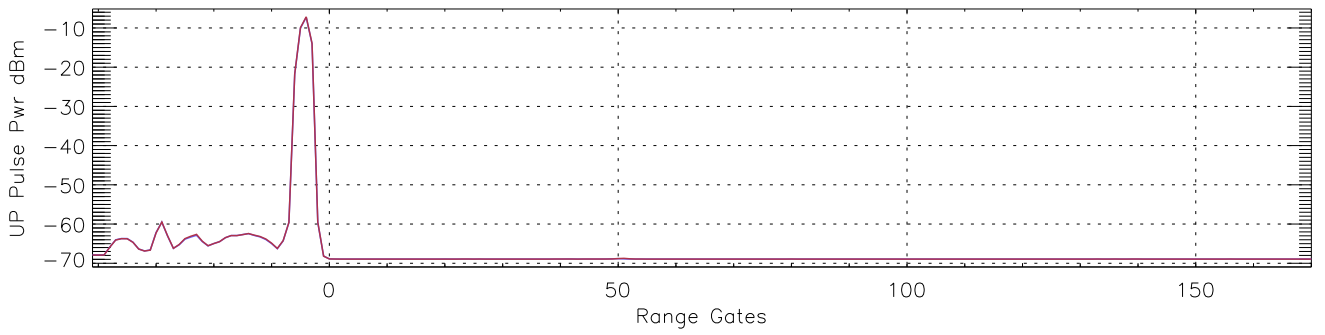
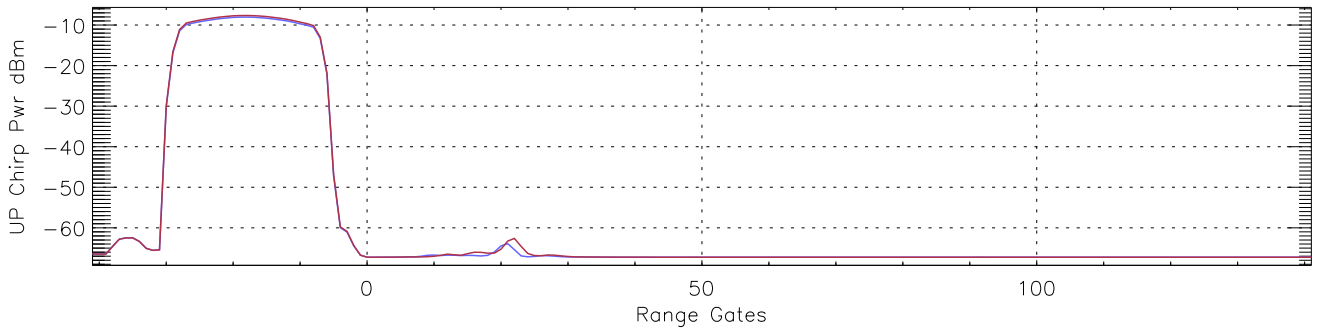
KPR SPP Last range gate PPMAG: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-97.14	-77.54	-82.58	-82.83	-85.46
UP Pulse(dBm)	-110.47	-79.26	-84.32	-84.69	-87.11
DOWN Chirp(dBm)	-98.75	-76.14	-80.88	-81.10	-83.73
DOWN Pulse(dBm)	-98.92	-76.92	-82.45	-82.76	-85.26

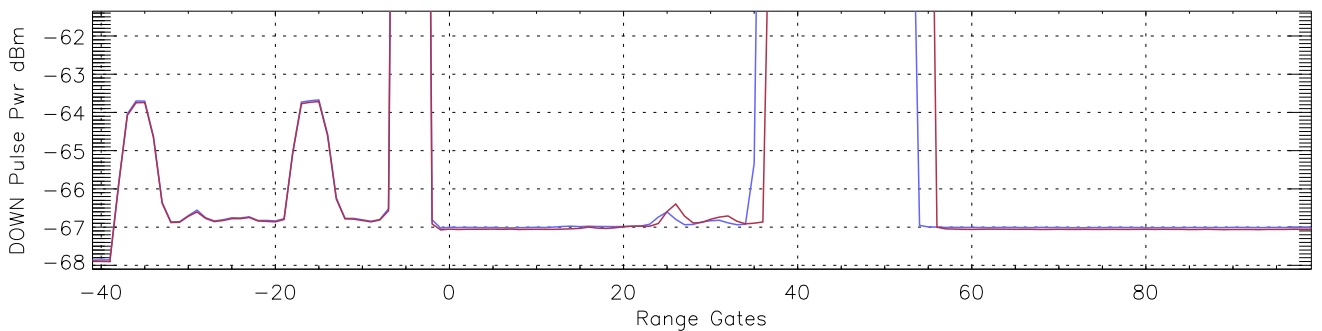
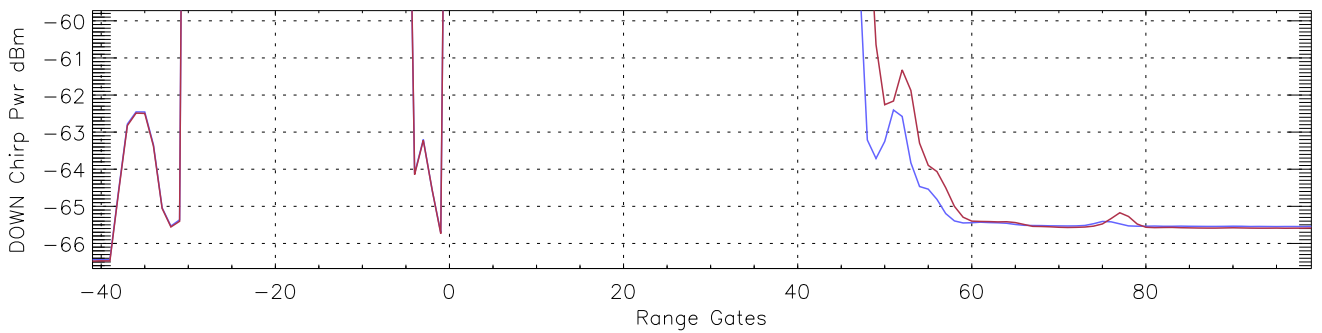
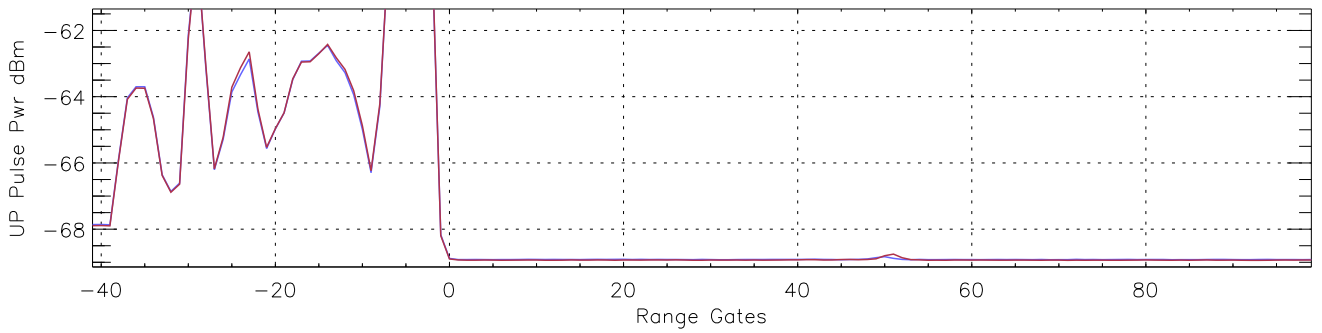
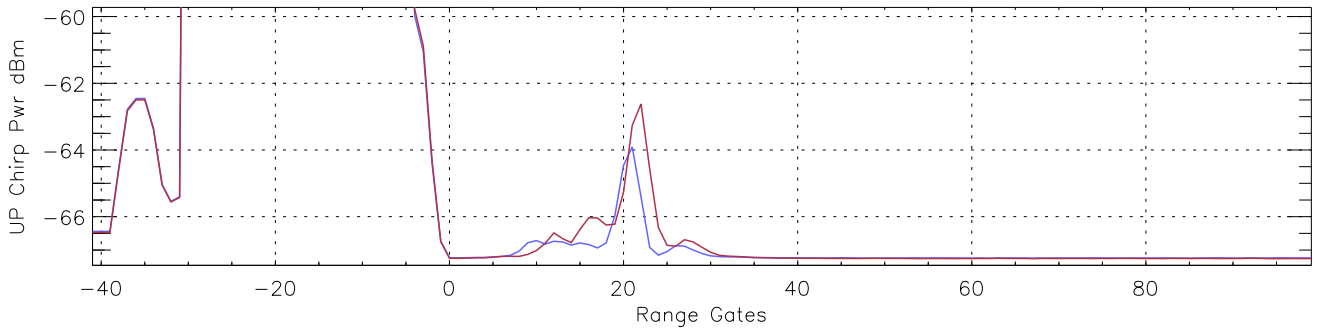


KPR SPP "Best" PPMAG noise (dBm):

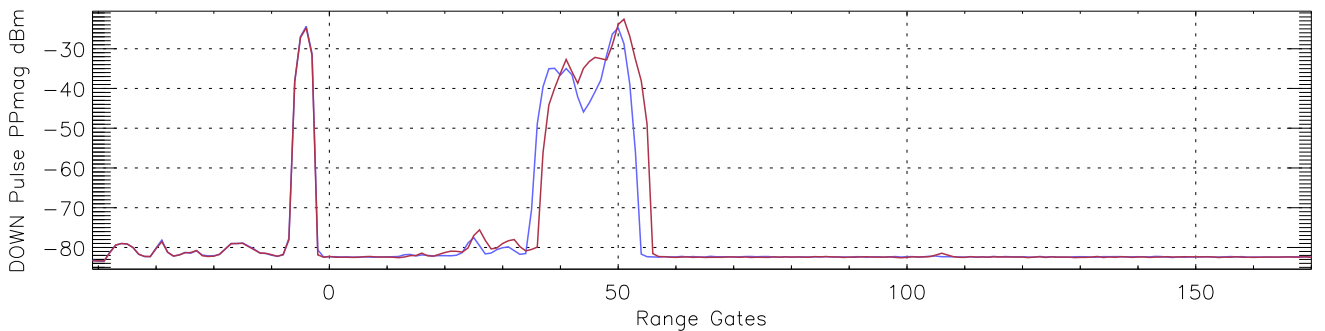
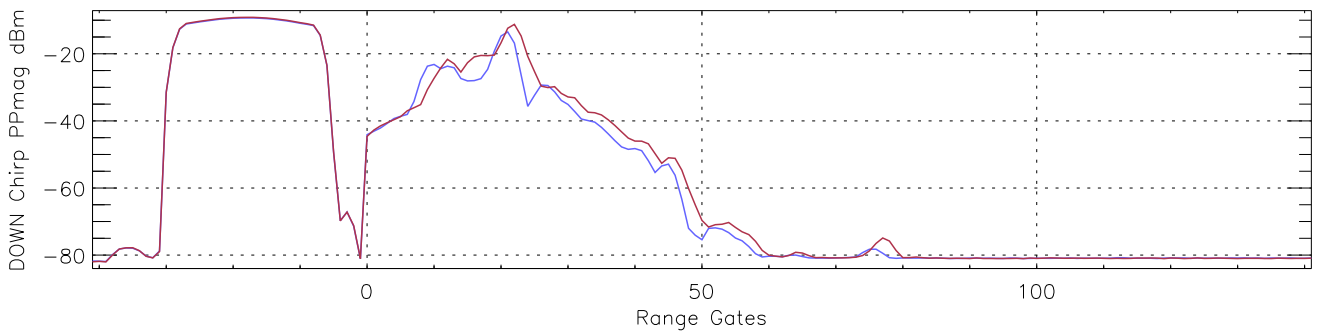
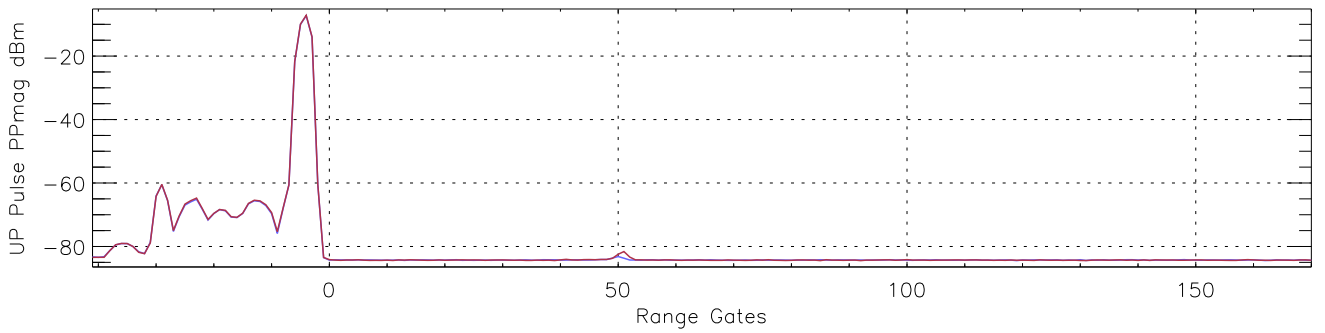
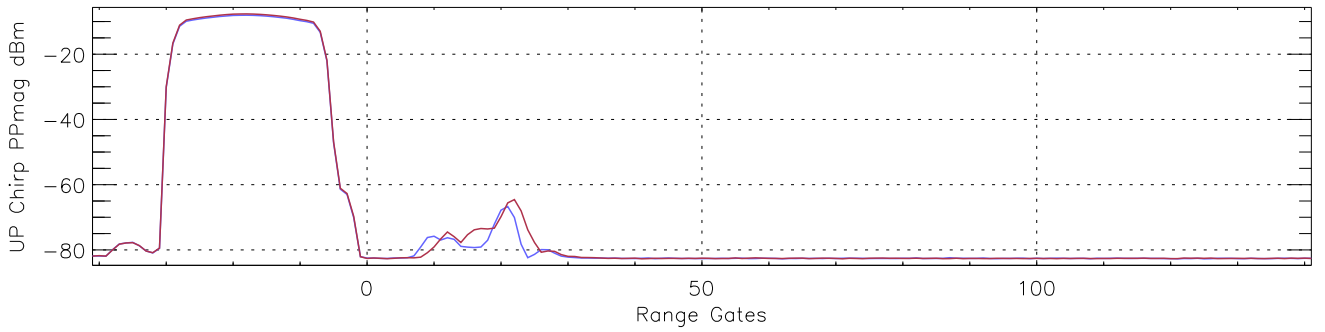
	Min	Max	Mean	Median	StDev
UP_C_RG67_0	-106.47	-77.26	-82.60	-82.94	-85.35
UP_P_RG92_0	-106.97	-79.53	-84.36	-84.62	-87.14
DOWN_C_RG127_0	-94.67	-76.15	-80.90	-81.20	-83.69
DOWN_P_RG119_0	-101.85	-77.45	-82.39	-82.66	-85.20



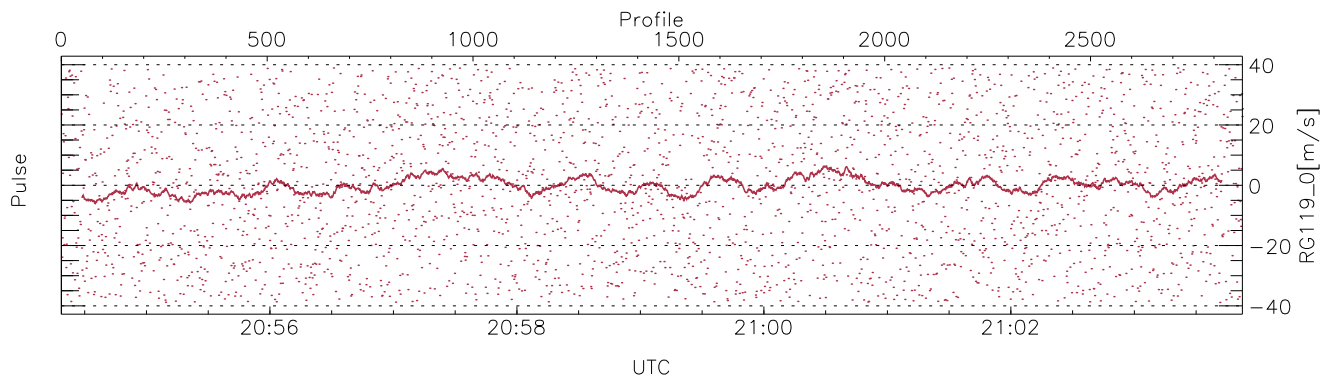
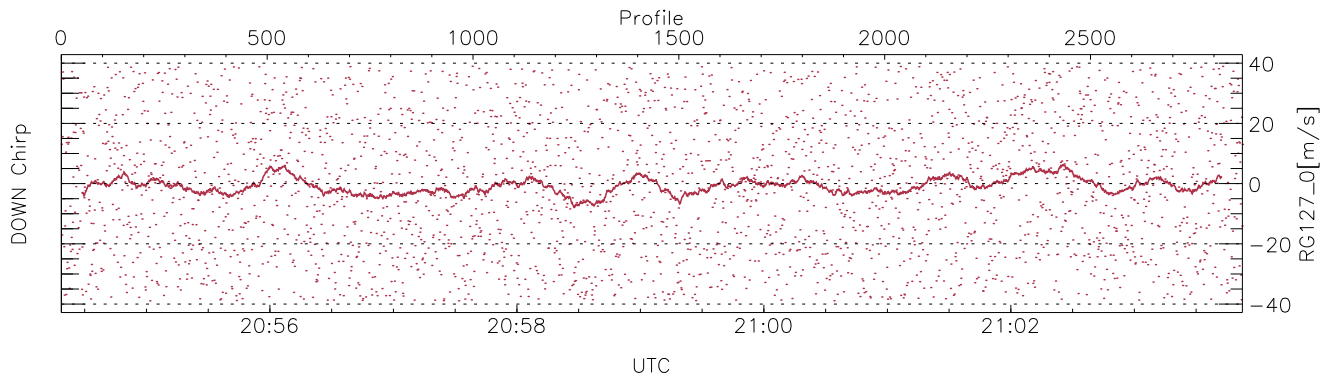
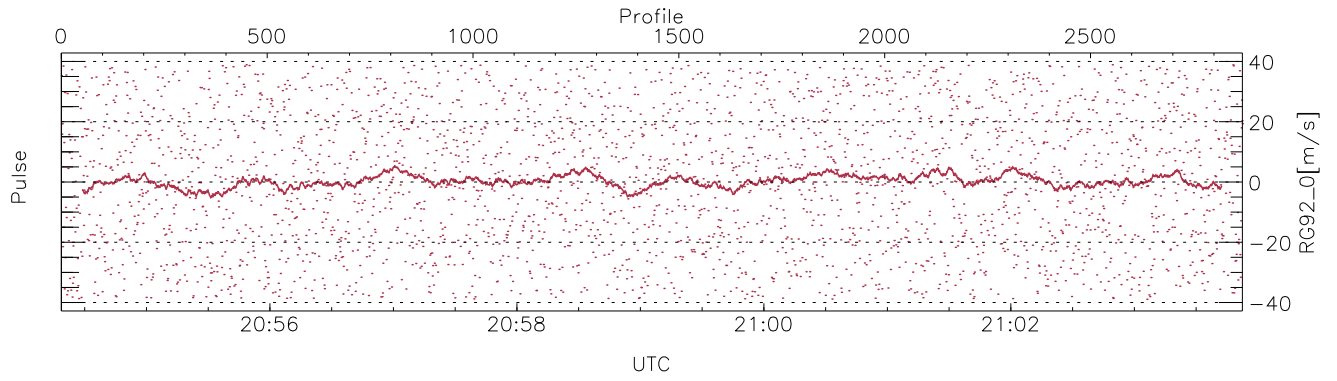
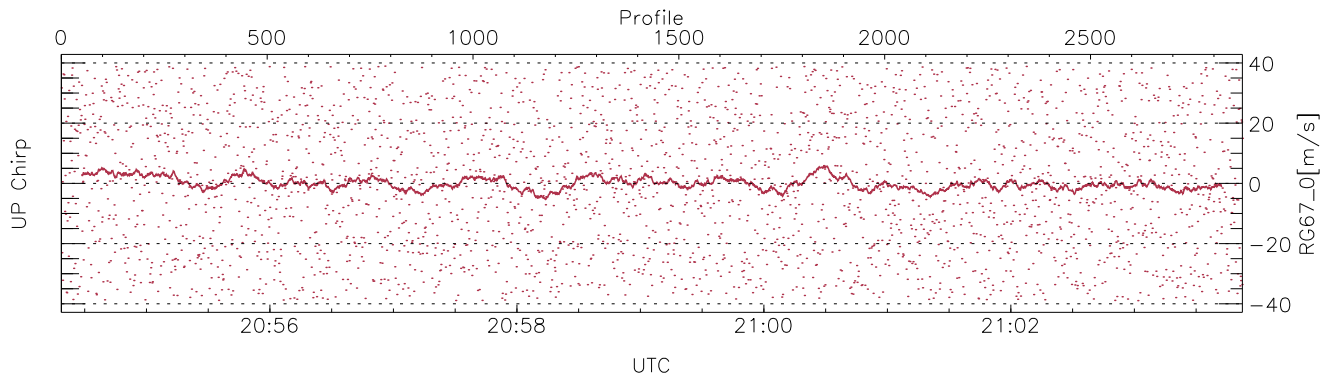
KPR SPP Averaged Received power for all recorded gates
blue: 205419-205905, 1436 profiles averaged
red: 205905-210352, 1435 profiles averaged



KPR SPP Averaged Power for neg. gates & up to 100 gates
blue: 205419-205905, 1436 profiles averaged
red: 205905-210352, 1435 profiles averaged

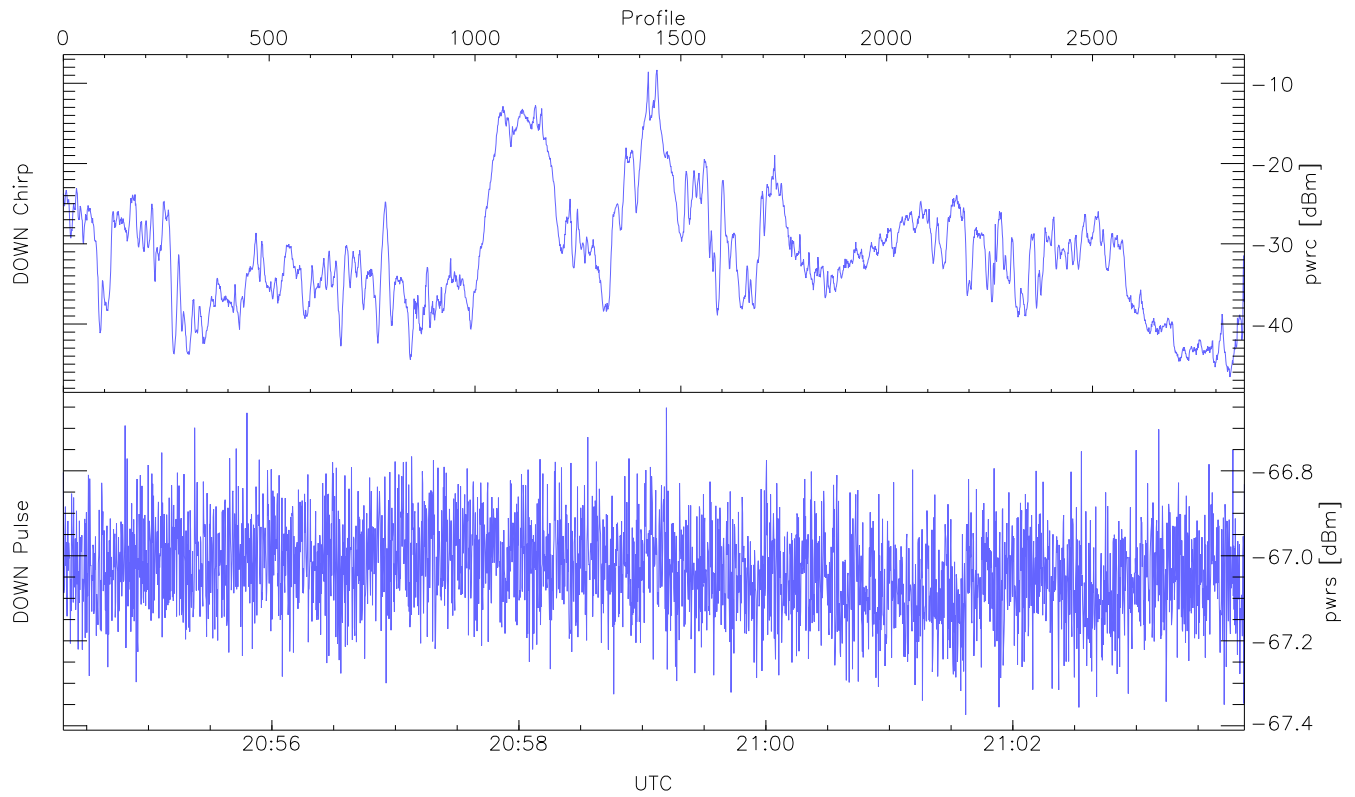
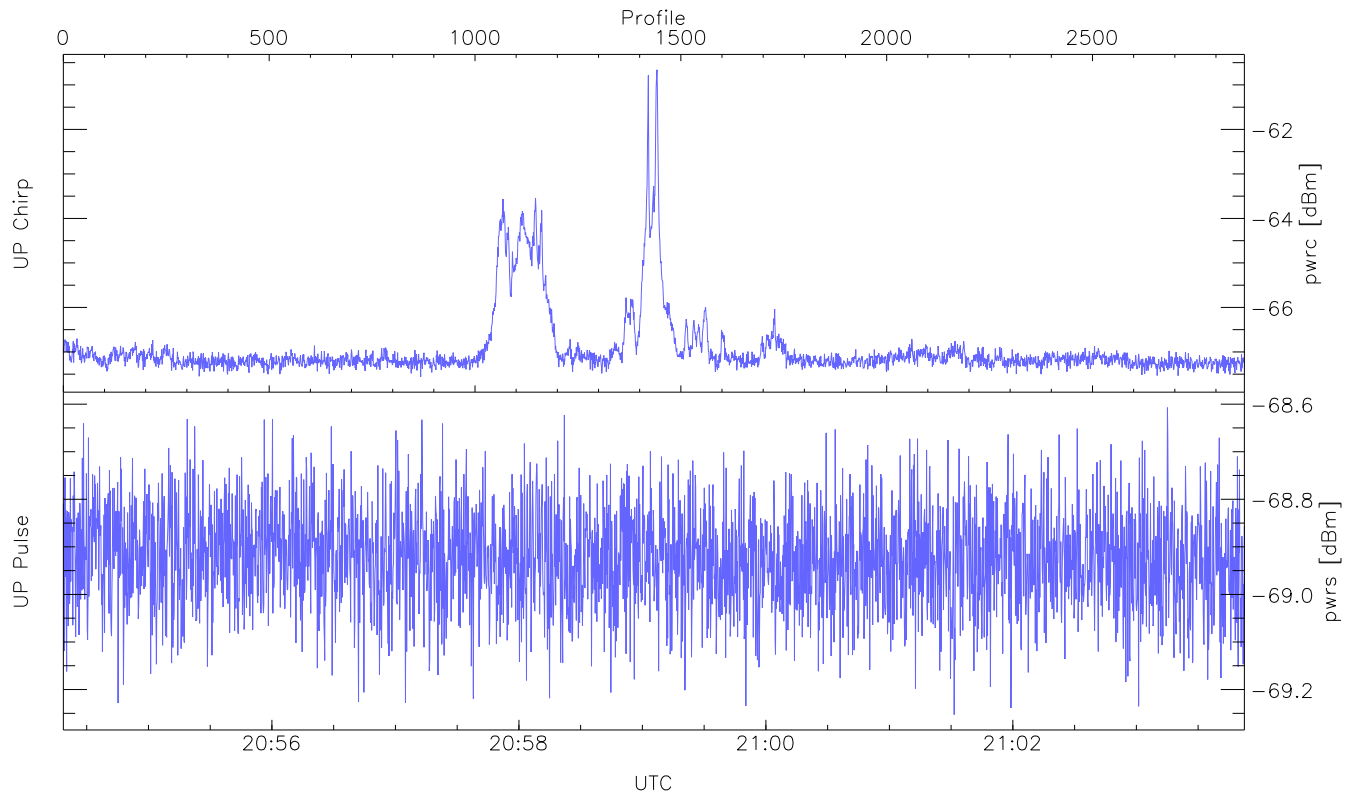


KPR SPP Averaged PP magnitude for all recorded gates
blue: 205419-205905, 1436 profiles averaged
red: 205905-210352, 1435 profiles averaged



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

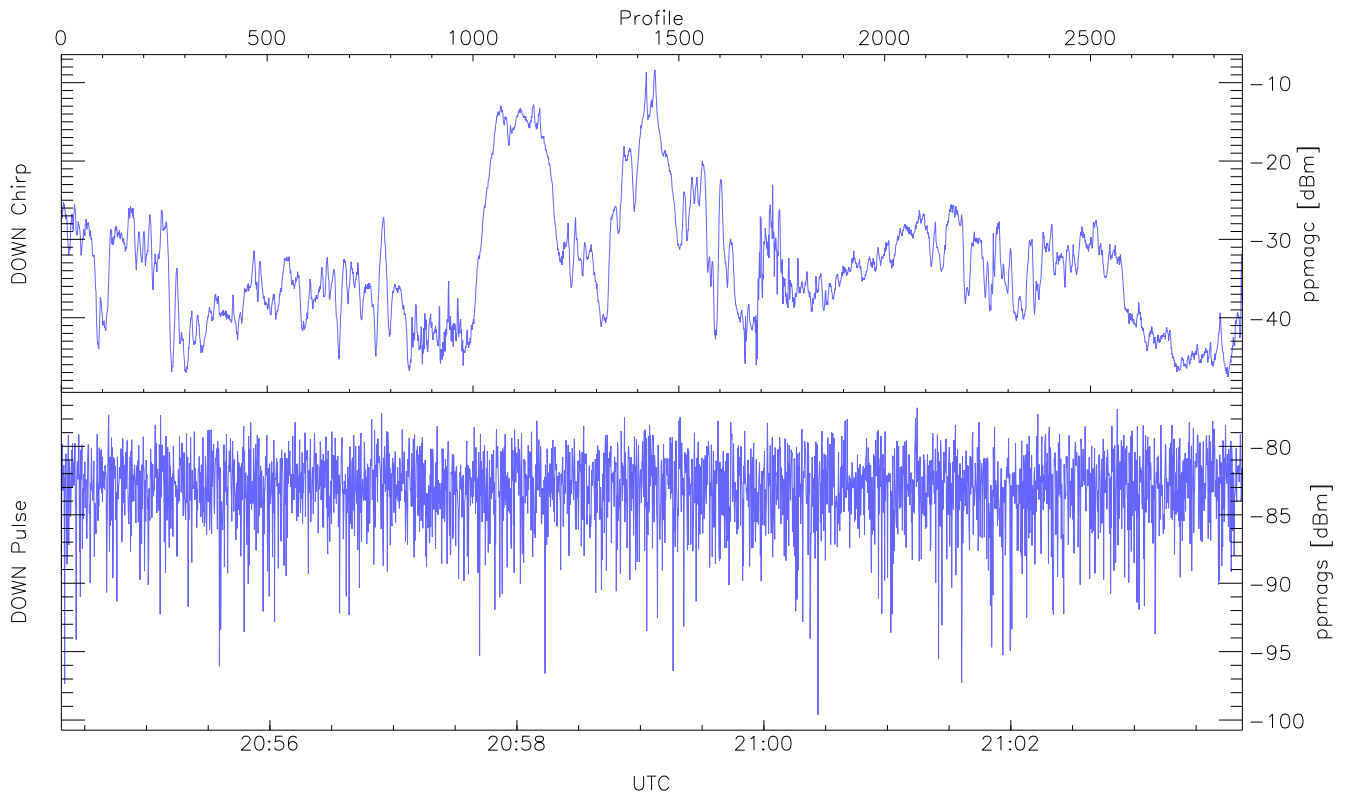
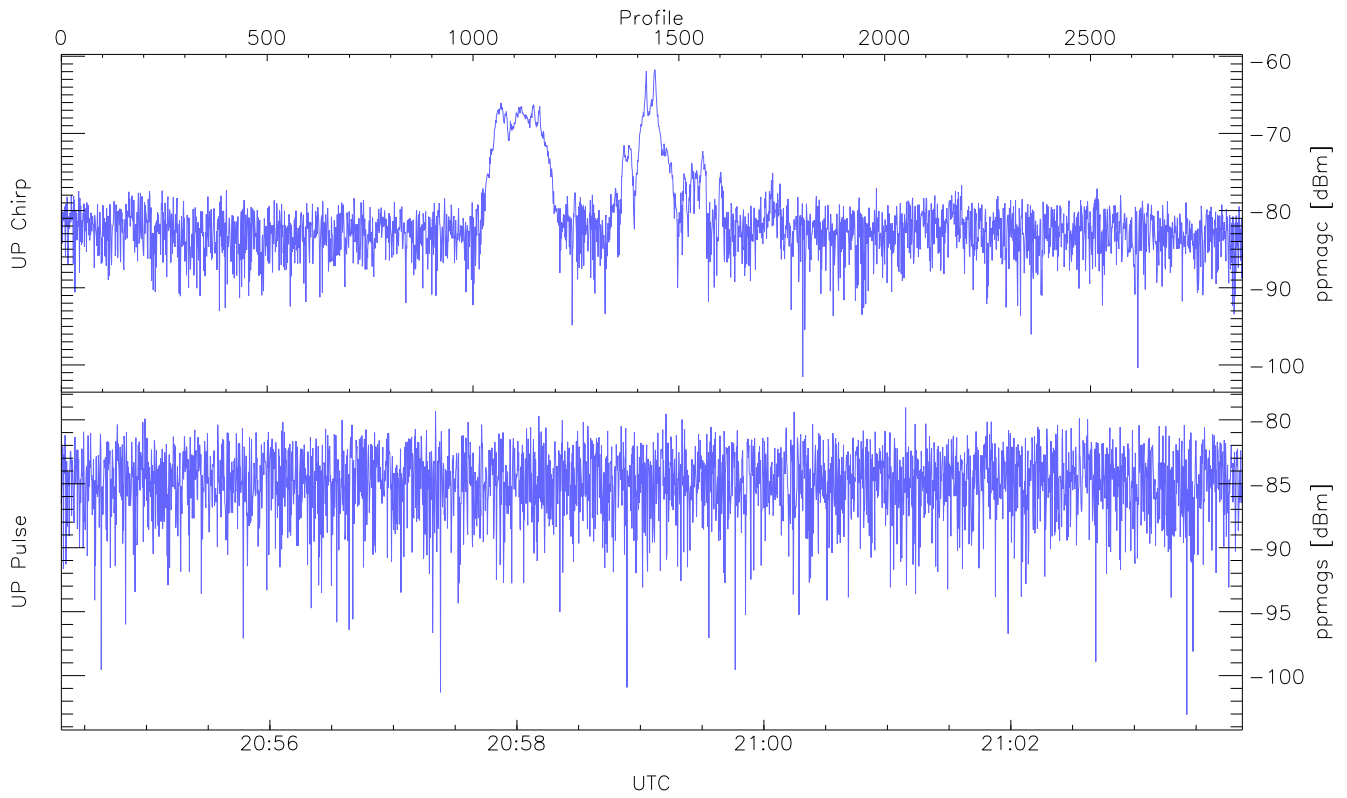
	Min	Max	Mean	Median	StDev
UP_C_RG67_0	-38.94	38.94	-0.02	-0.00	22.47
UP_P_RG92_0	-38.91	38.90	0.17	0.26	22.24
DOWN_C_RG127_0	-38.93	38.94	-0.78	-1.11	22.20
DOWN_P_RG119_0	-38.88	38.92	-0.21	-0.25	22.58



KPR SPP Received Power for Chirp Range gate 10 (1585.2 m)

KPR SPP Received Power for Pulse Range gate 10 (533.8 m)

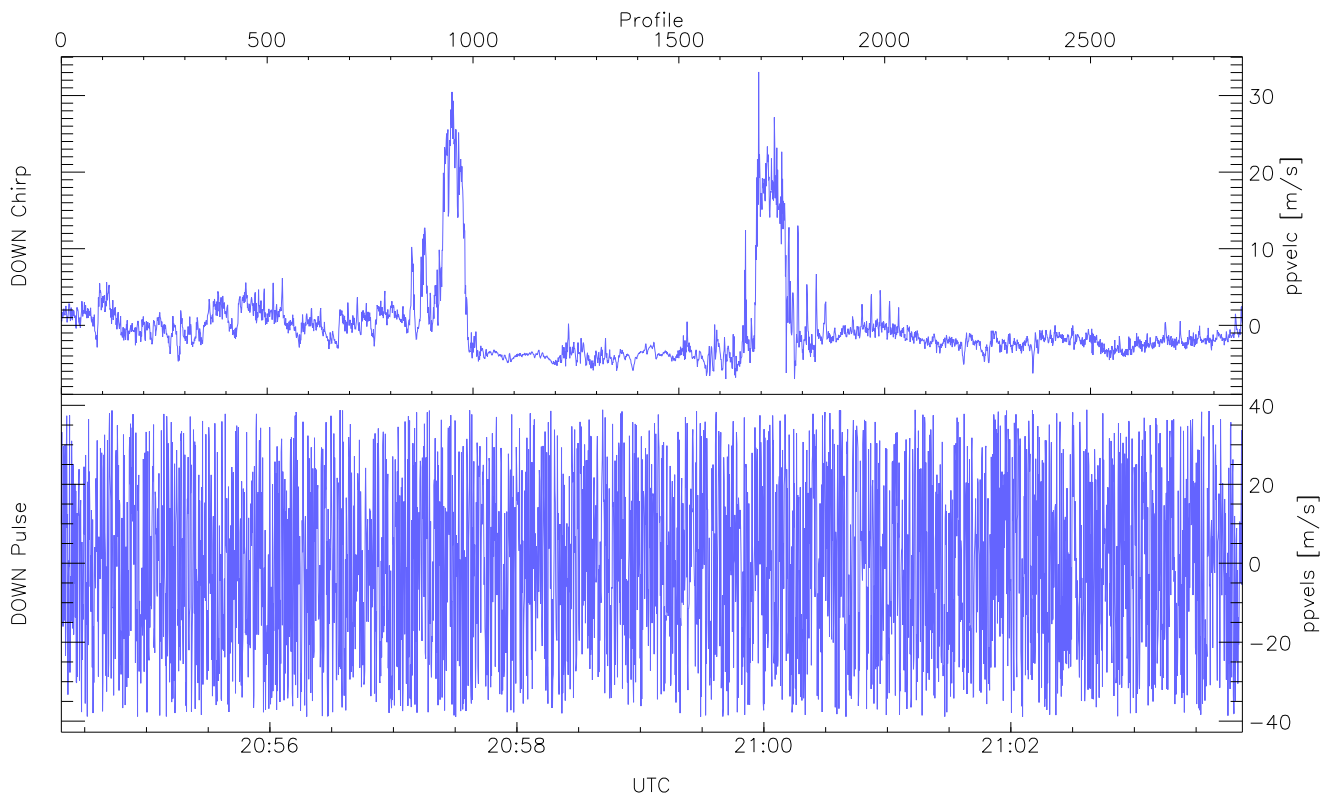
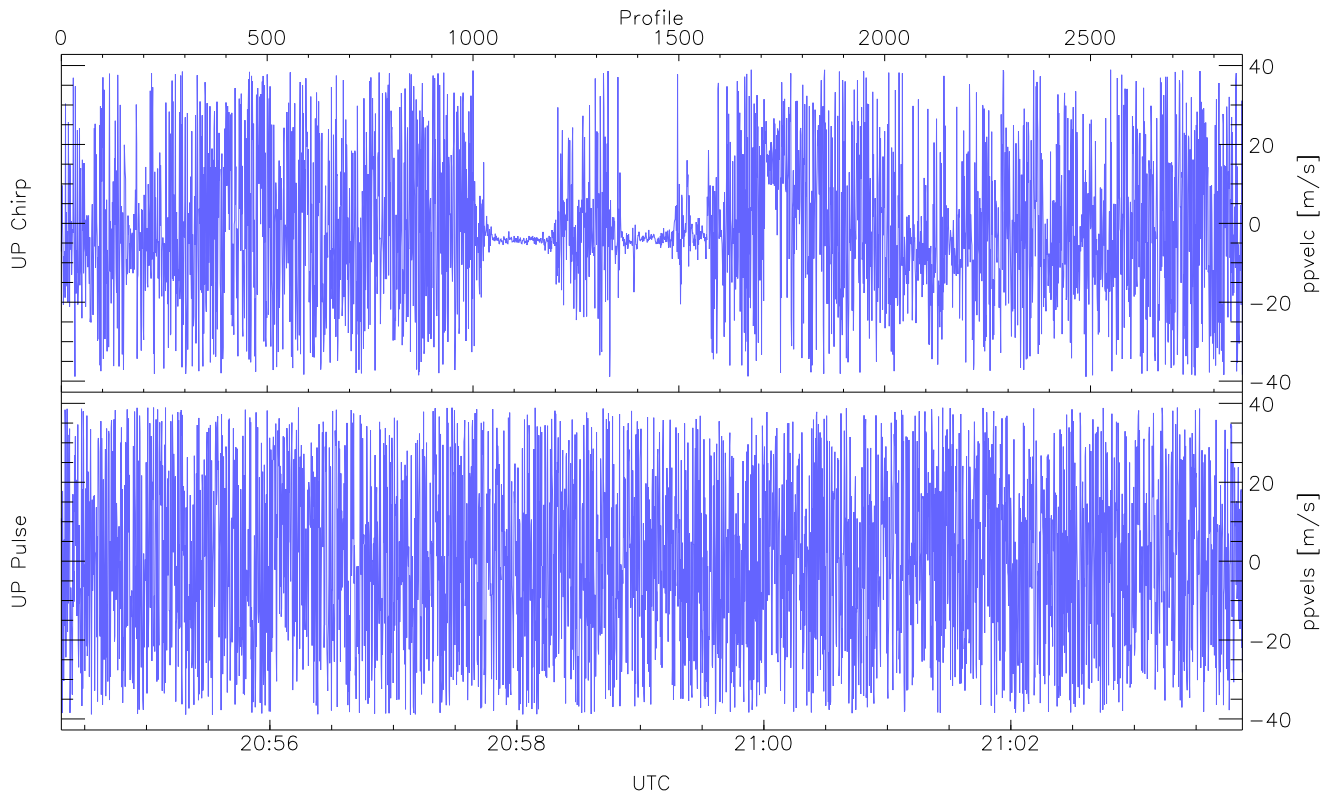
	Min	Max	Mean
UP Chirp(dBm)	-67.56	-60.66	-66.86
UP Pulse(dBm)	-69.25	-68.61	-68.92
DOWN Chirp(dBm)	-46.60	-8.34	-24.30
DOWN Pulse(dBm)	-67.37	-66.65	-67.03



KPR SPP PPMAG for Chirp Range gate 10 (1585.2 m)

KPR SPP PPMAG for Pulse Range gate 10 (533.8 m)

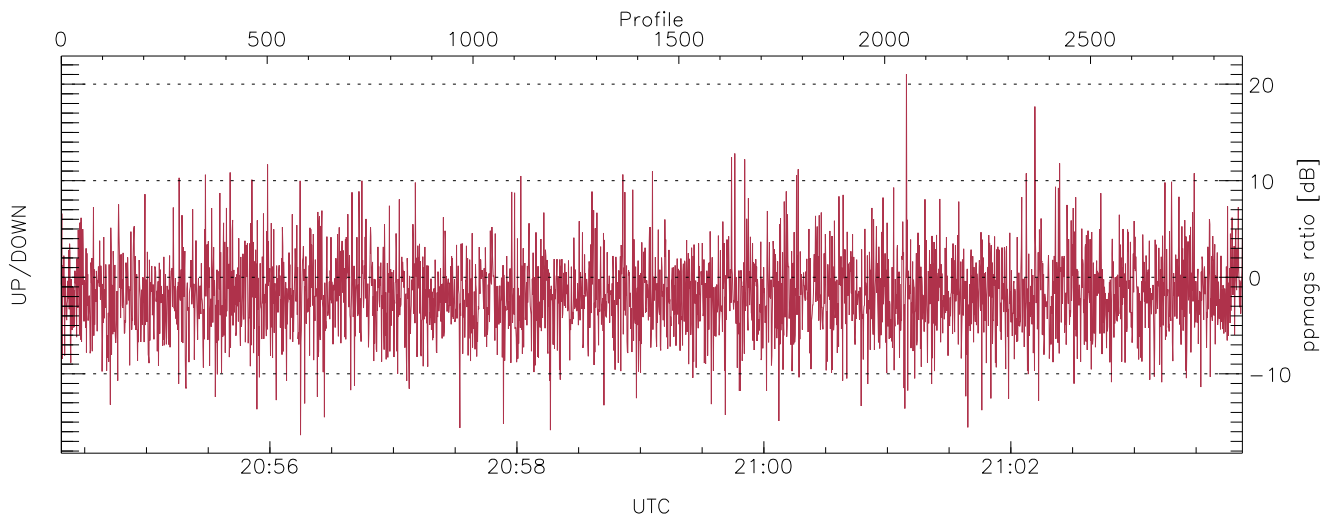
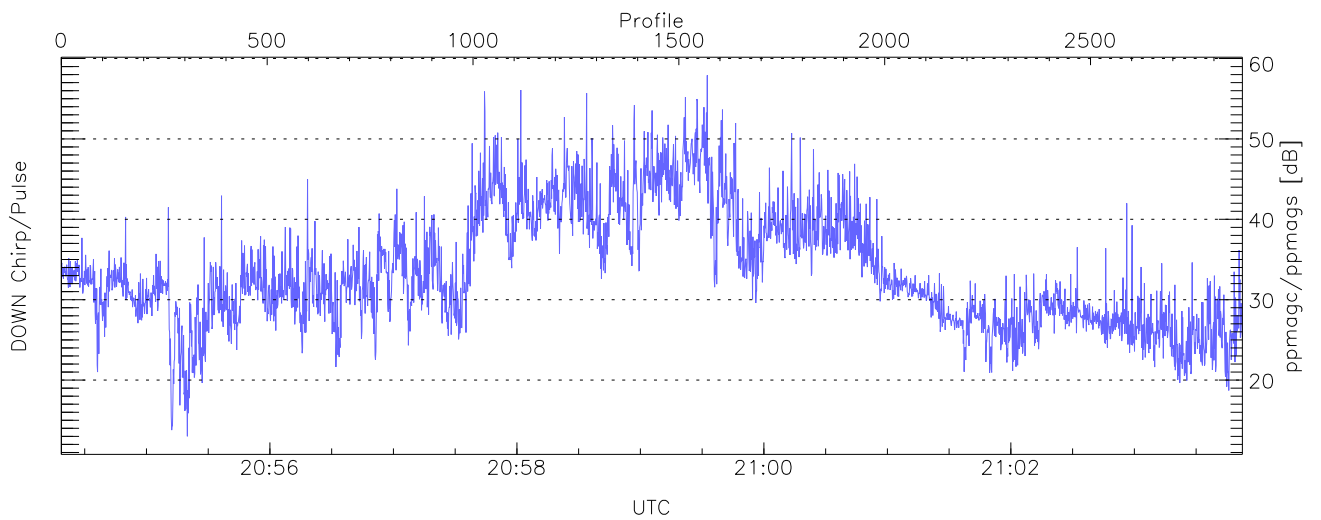
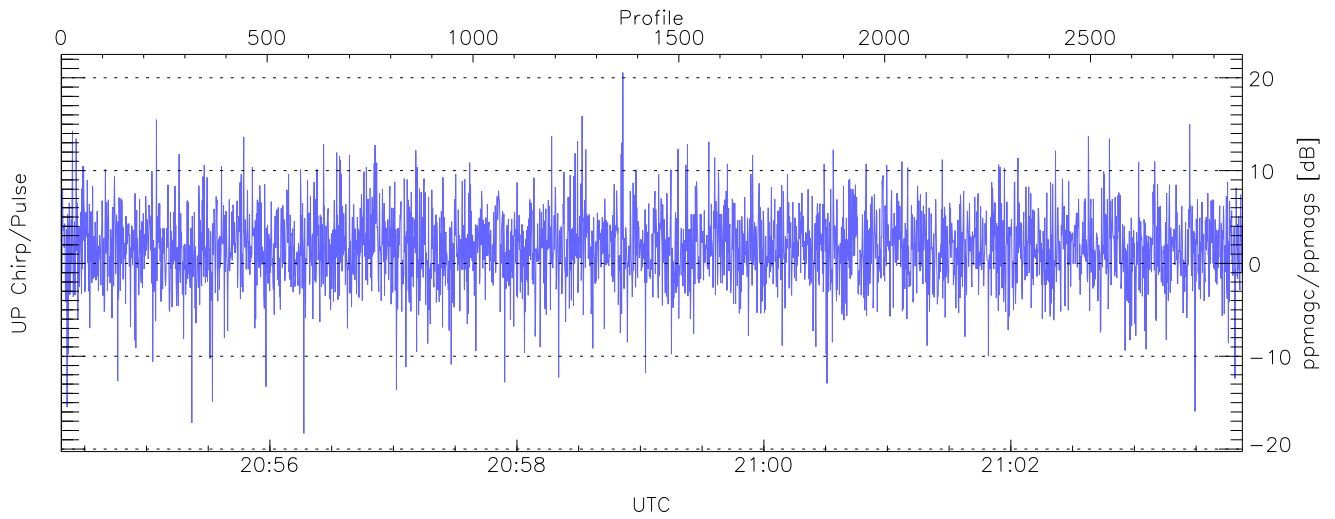
	Min	Max	Mean
UP Chirp(dBm)	-101.54	-61.75	-77.17
UP Pulse(dBm)	-103.05	-79.04	-84.30
DOWN Chirp(dBm)	-47.57	-8.38	-24.80
DOWN Pulse(dBm)	-99.62	-77.18	-82.39



KPR SPP PPVEL for Chirp Range gate 10 (1585.2 m)

KPR SPP PPVEL for Pulse Range gate 10 (533.8 m)

	Min	Max	Mean
UP Chirp(m/s)	-38.92	38.93	-1.33
UP Pulse(m/s)	-38.91	38.94	0.08
DOWN Chirp(m/s)	-7.01	33.08	-0.44
DOWN Pulse(m/s)	-38.90	38.88	-0.08



KPR SPP PPMAG Chirp/Pulse; Range gate: 1247.9m /1283.3m

	Min	Max	Mean
UP Chirp/Pulse(dBm)	-18.32	20.57	3.53
DOWN Chirp/Pulse(dBm)	13.01	57.92	40.05
UP/DOWN Ratio at Range 196.5 m			
	Min	Max	Mean
UP/DOWN(dB)	-16.35	21.05	0.43