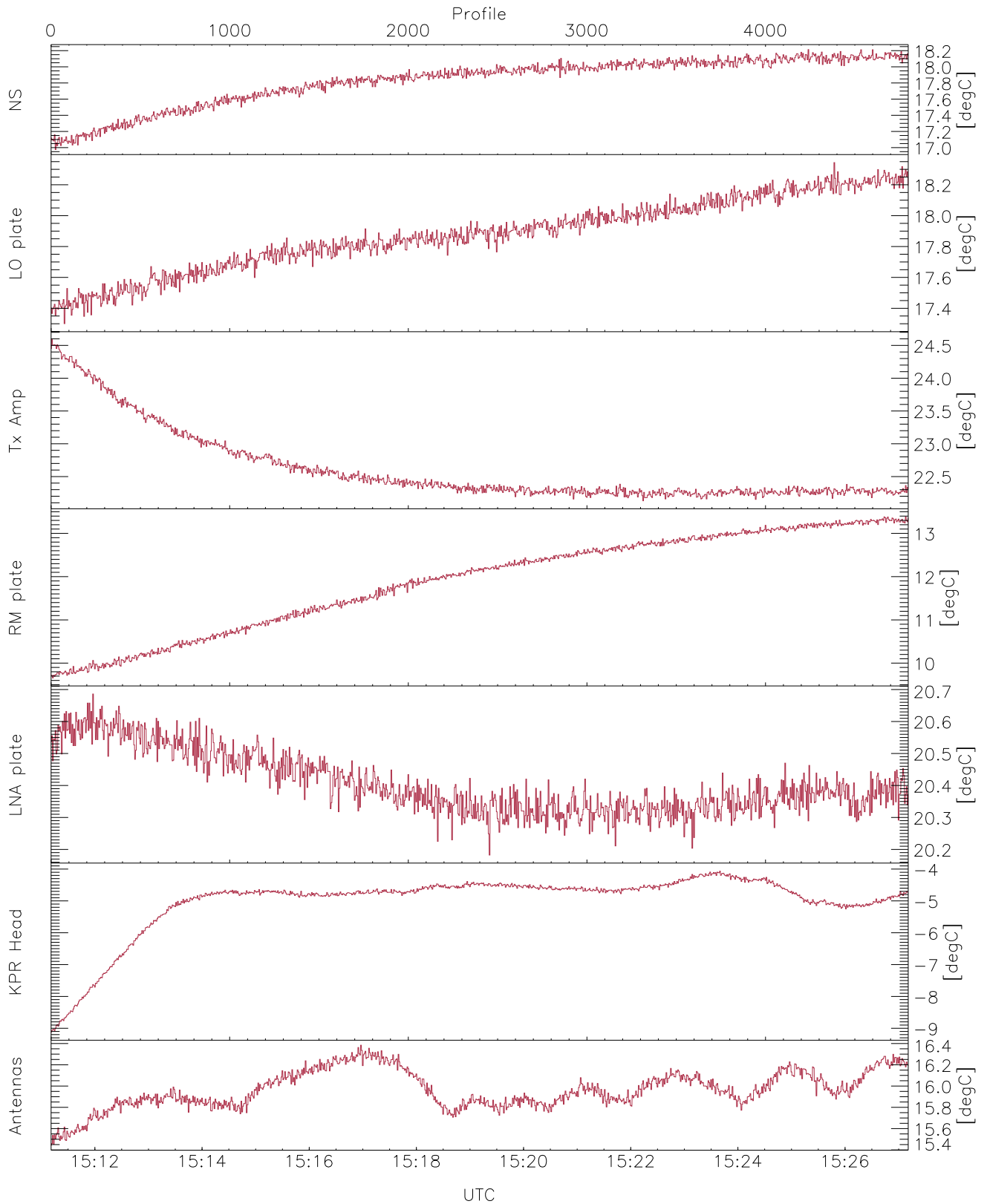


KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF  
 UTC: 15:11:11-15:35:36, TimeCor: 0.00s, Dur: 959.80s  
 TimeInt(min,max,mn,std): 189.2,210.8,200.0,0.4 ms; PPS: 5.0  
 NumRec(r/t): 4800/7324, 0-4799/15:11:11-15:27:11  
 AcqTime(req,actual): 200.0,200.0 ms, Data Rate: 187.6 KB/s  
 Pulse: 247 ns, Chirp: 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

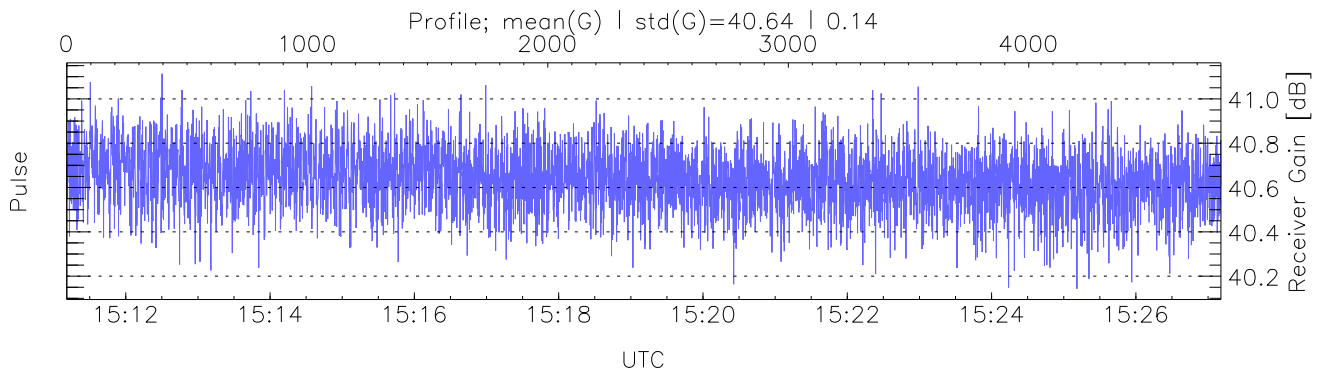
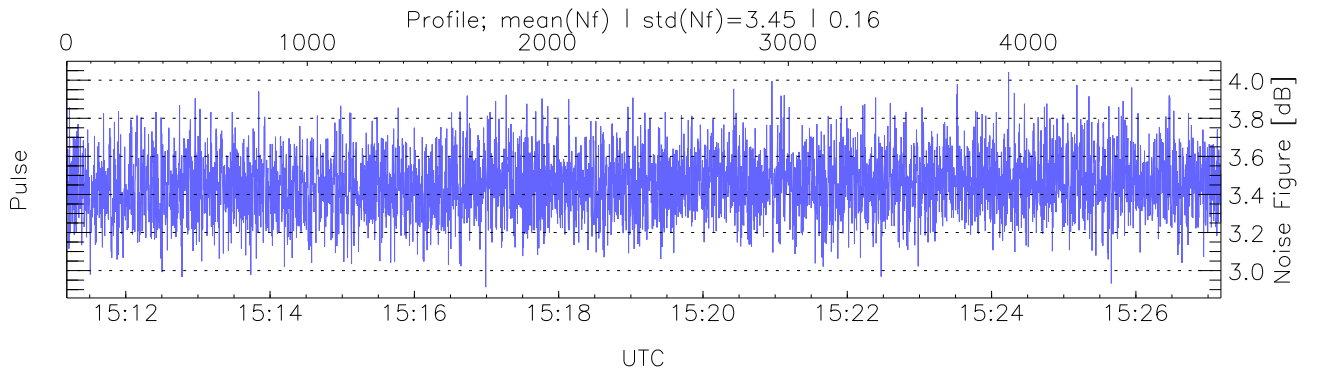
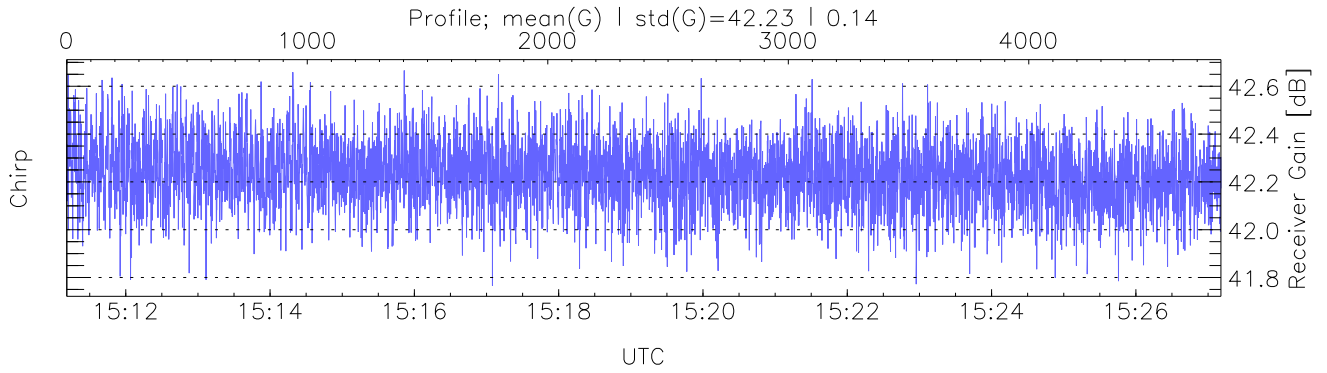
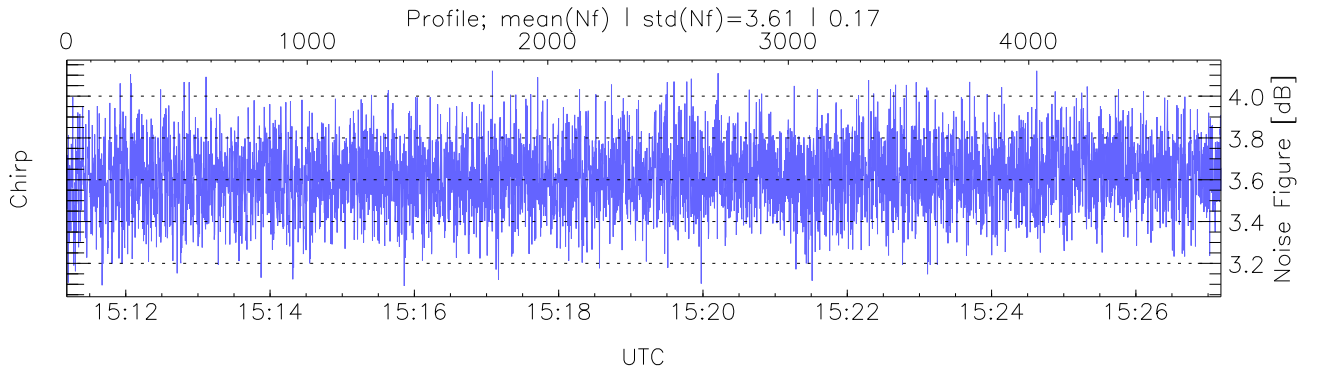


KPR SPP Temperatures, Power Supplies, PLO lock:

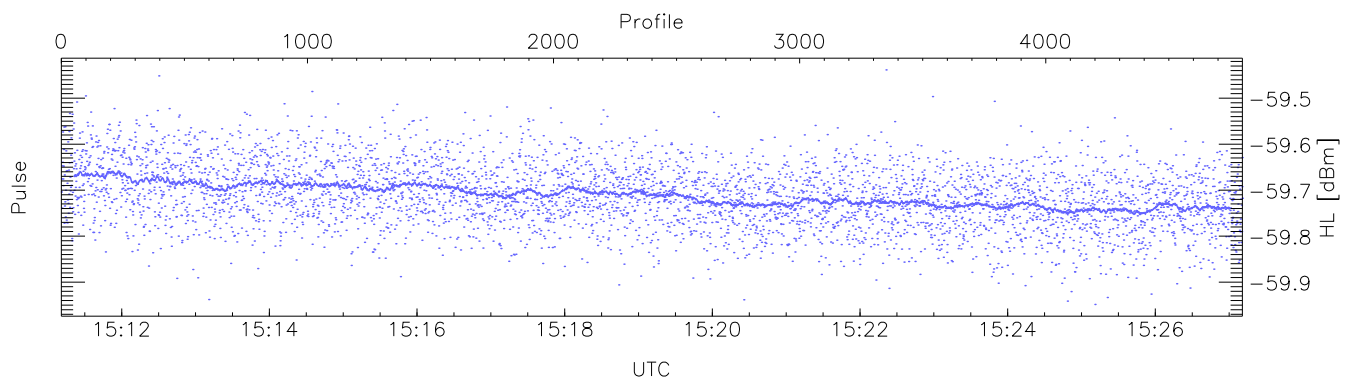
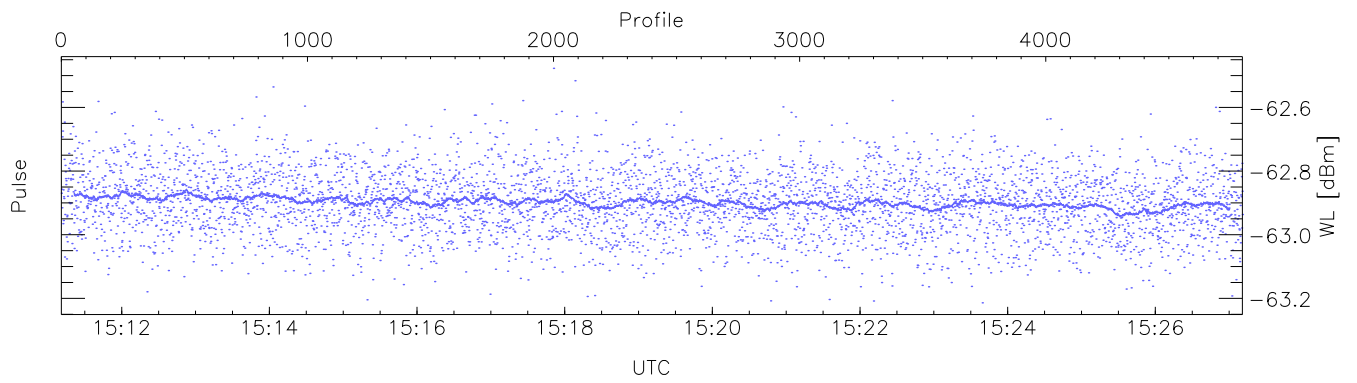
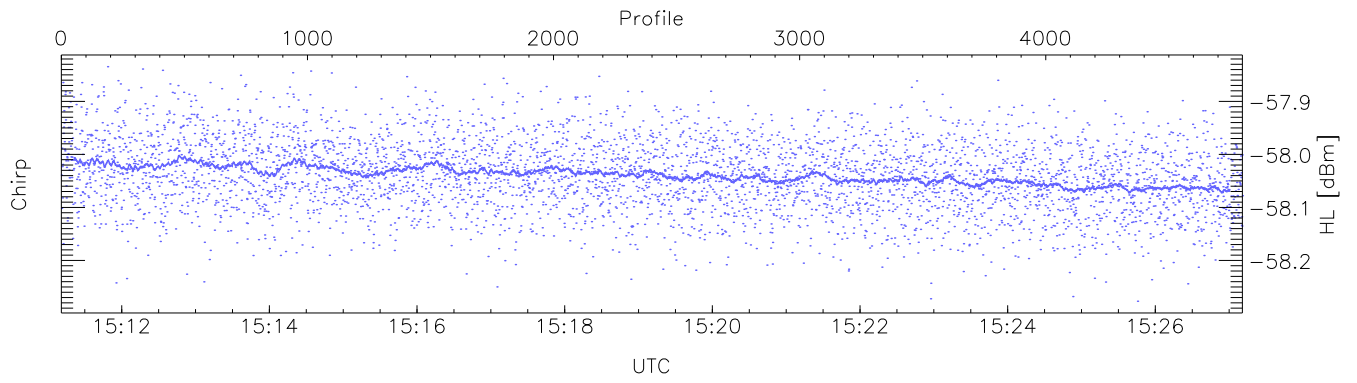
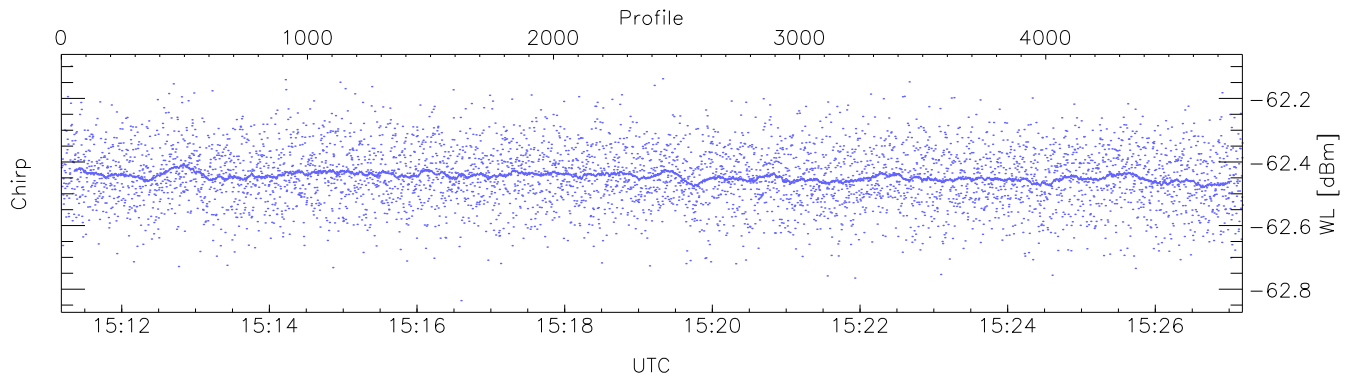
temperature: NS, LO, Tx, RM, LNA, Head, Ant  
 mintempC: 17.0, 17.3, 22.1, 9.7, 20.2, -9.1, 15.4  
 maxtempC: 18.2, 18.3, 24.6, 13.4, 20.7, -4.1, 16.4  
 meantempC: 17.8, 17.9, 22.6, 11.9, 20.4, -5.0, 16.0

PwrSply: 28, 12, 8, 5 VDC  
 minVDC: 25.51, 11.68, 7.87, 5.21  
 maxVDC: 27.85, 11.74, 7.90, 5.23  
 meanVDC: 26.90, 11.71, 7.88, 5.22

PLO(3.84,15.84 GHz) unlocked: None

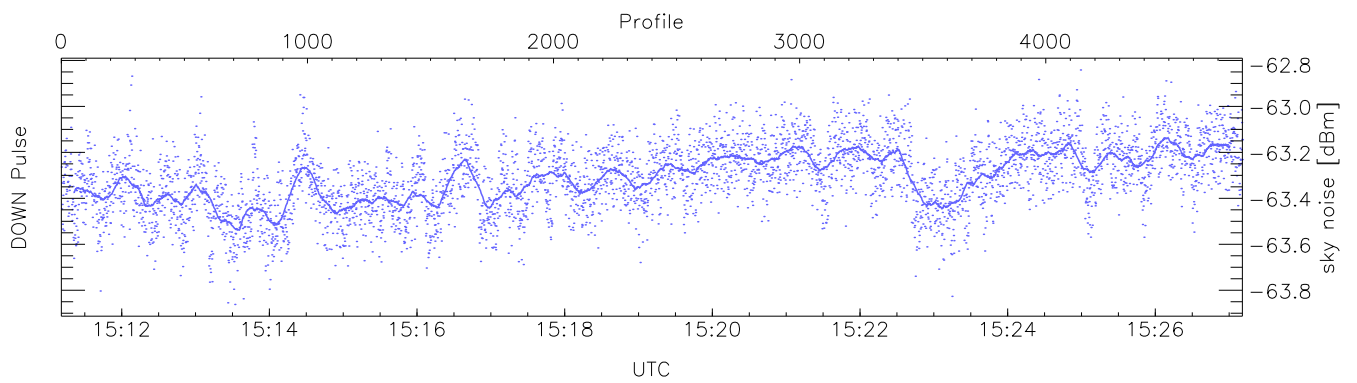
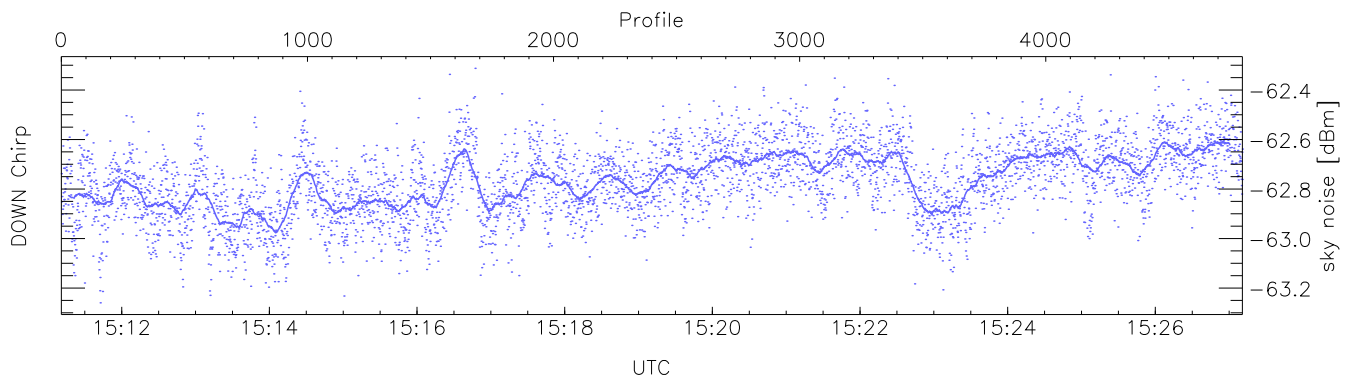
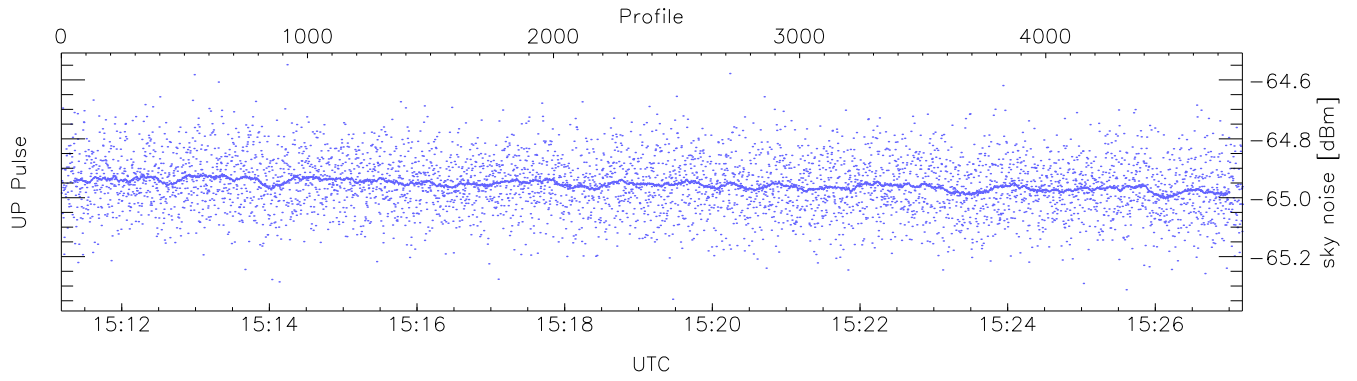
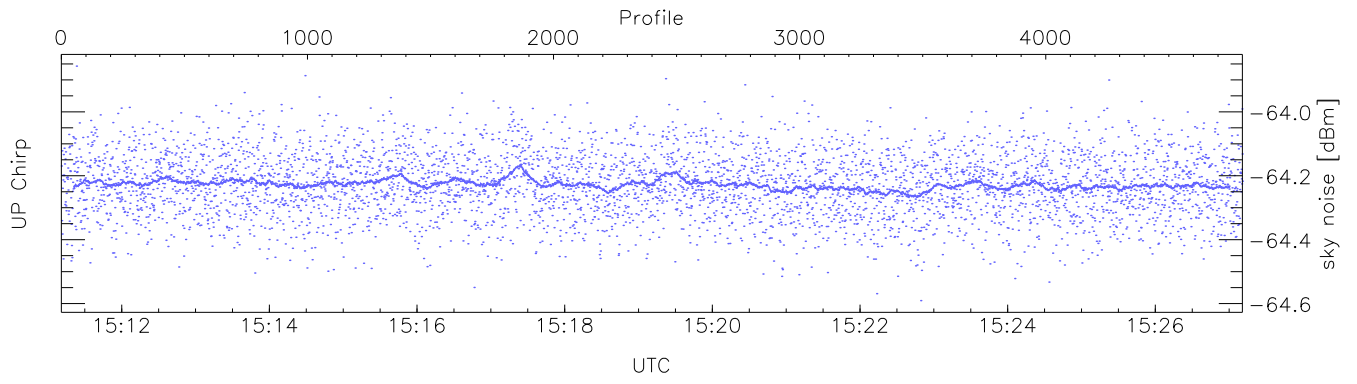


KPR SPP Receiver Gain and Noise Figure



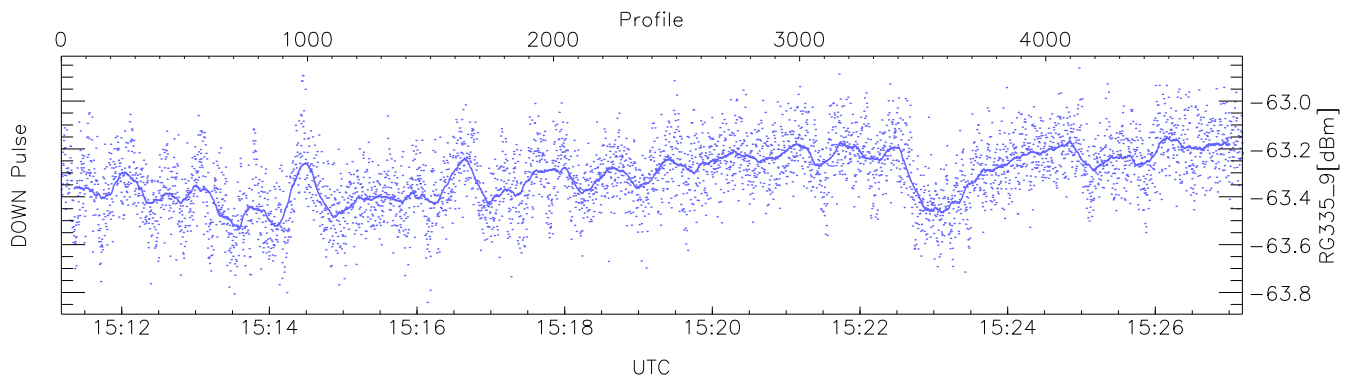
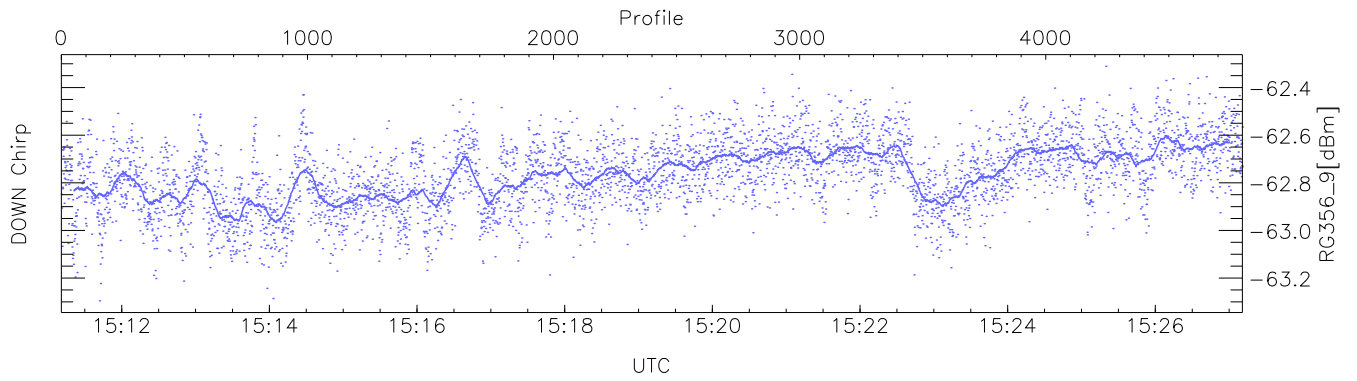
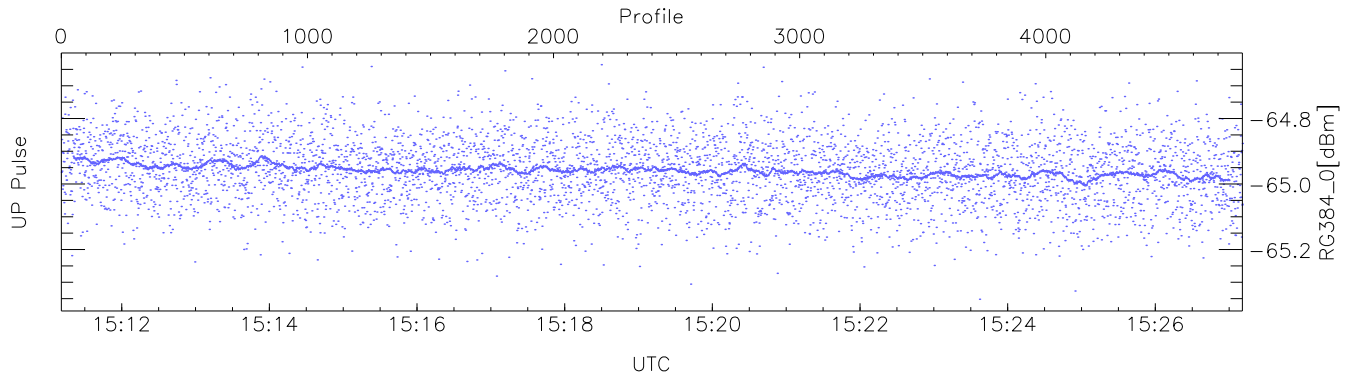
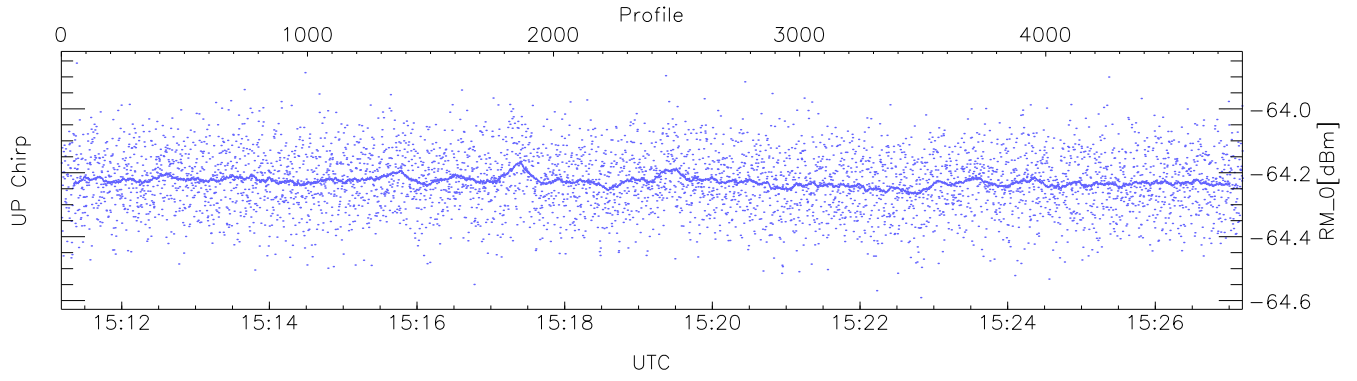
KPR SPP Receiver Noise Source Warm and Hot Measurements

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-62.84	-62.10	-62.45	-62.45	-78.97
Chirp(HL [dBm])	-58.28	-57.83	-58.04	-58.04	-76.24
Pulse(WL [dBm])	-63.21	-62.48	-62.90	-62.90	-79.34
Pulse(HL [dBm])	-59.95	-59.44	-59.71	-59.71	-77.79



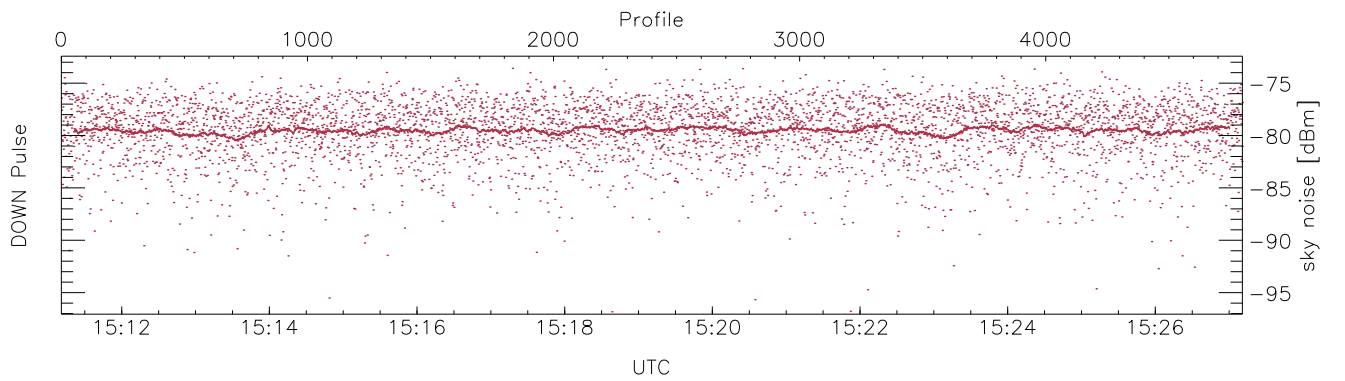
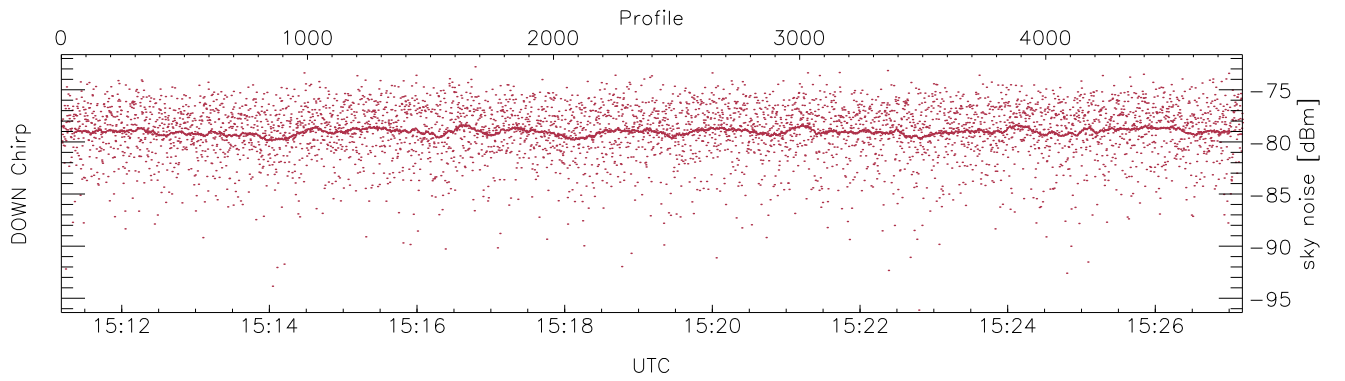
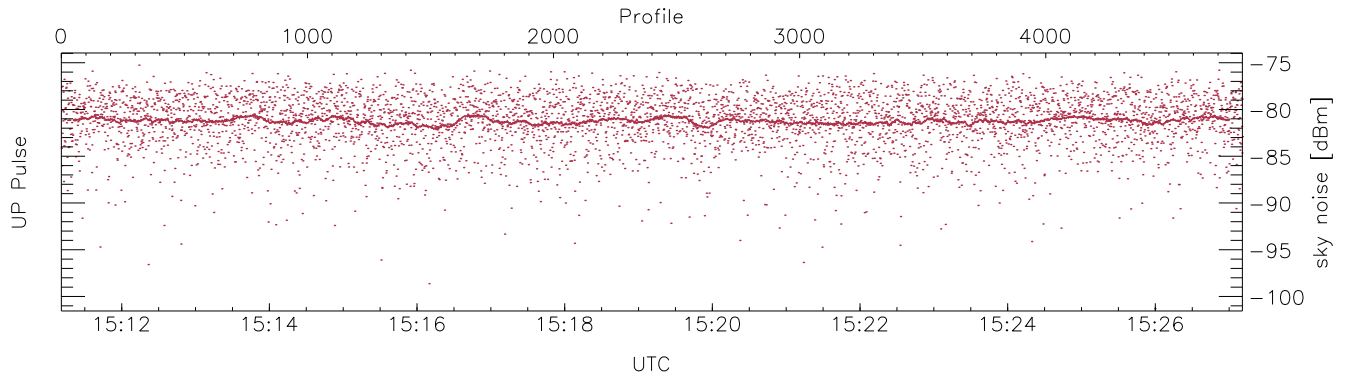
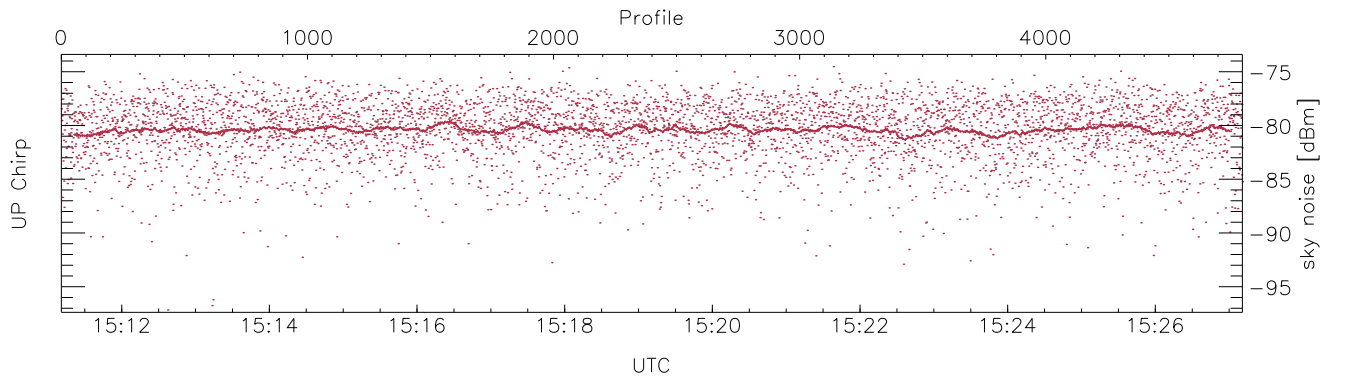
KPR SPP Last range gate power measurements: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-64.59	-63.86	-64.23	-64.23	-80.72
UP Pulse(dBm)	-65.34	-64.55	-64.96	-64.96	-81.34
DOWN Chirp(dBm)	-63.26	-62.31	-62.76	-62.76	-77.50
DOWN Pulse(dBm)	-63.86	-62.84	-63.31	-63.31	-77.94



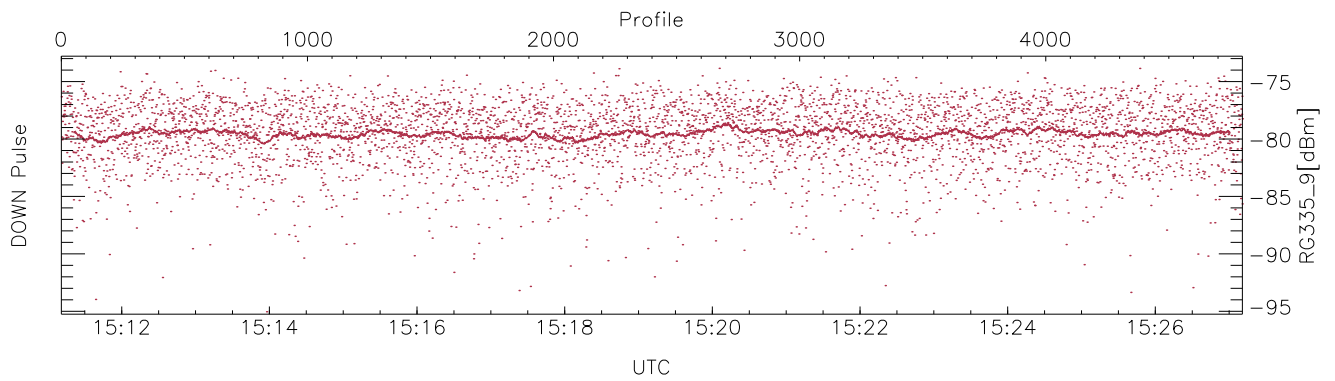
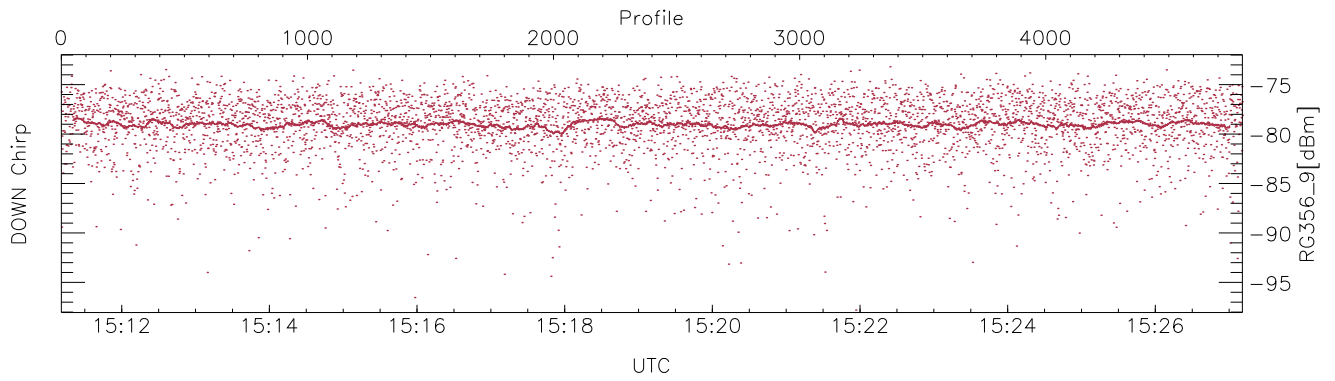
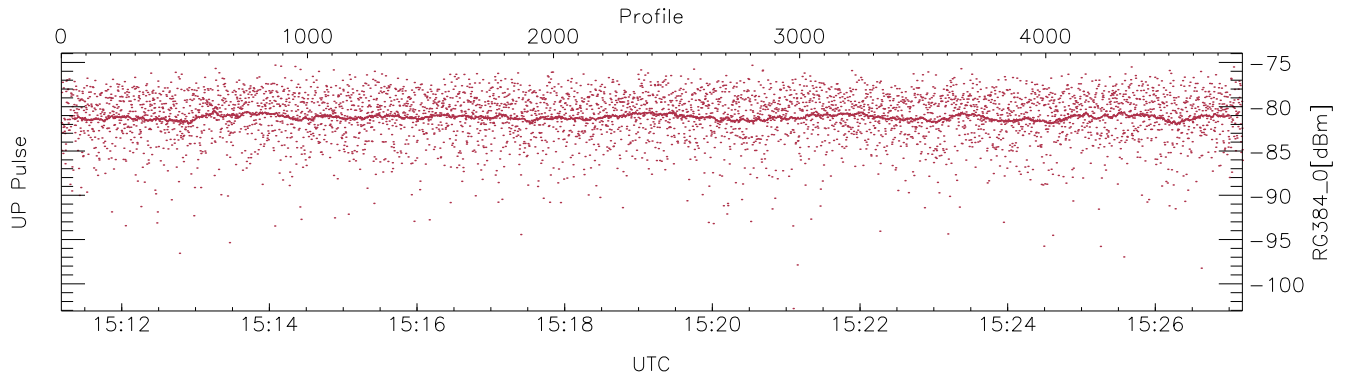
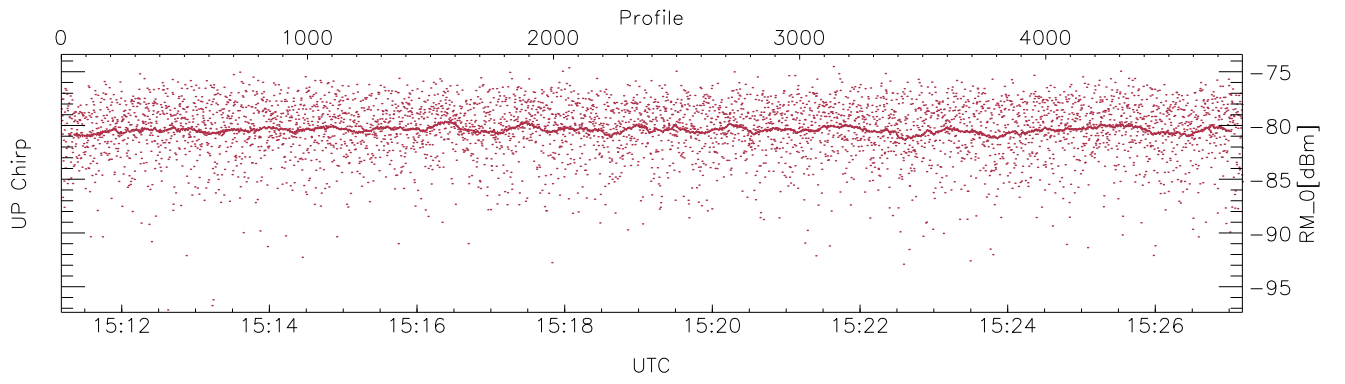
KPR SPP "Best" noise power measurements (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RM_0	-64.59	-63.86	-64.23	-64.23	-80.72
UP_P_RG384_0	-65.35	-64.64	-64.96	-64.96	-81.39
DOWN_C_RG356_9	-63.30	-62.31	-62.76	-62.76	-77.54
DOWN_P_RG335_9	-63.84	-62.86	-63.31	-63.31	-77.99



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

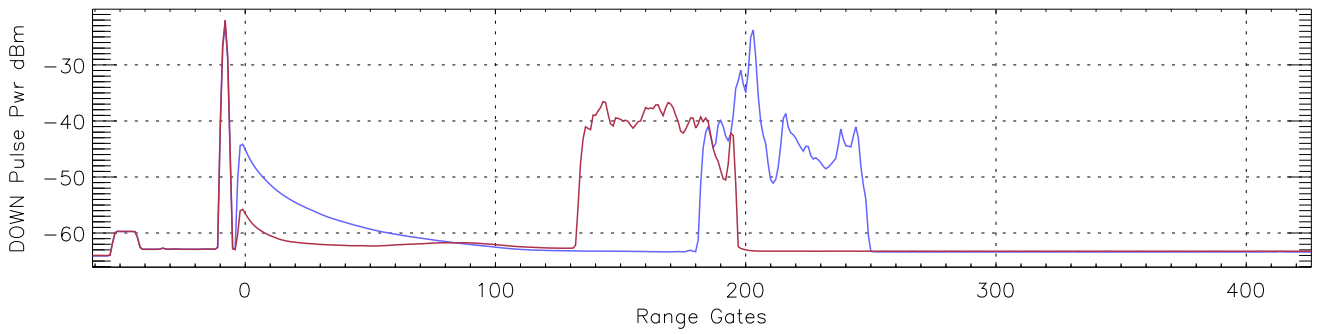
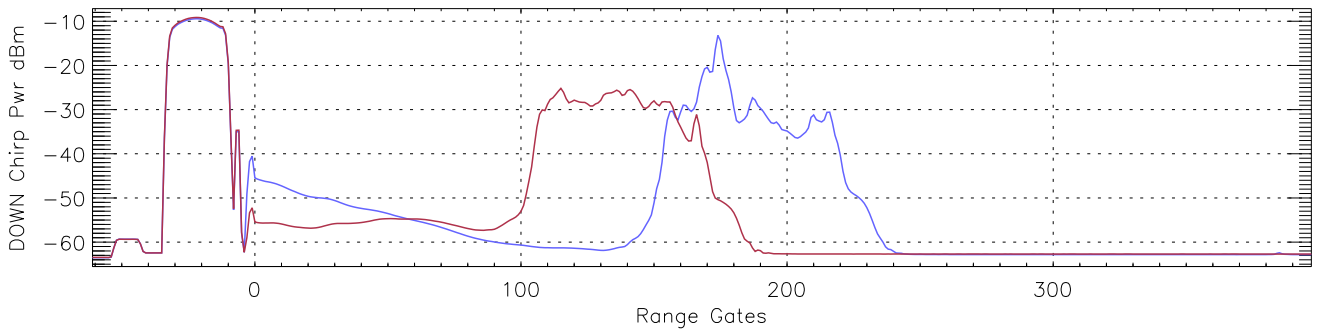
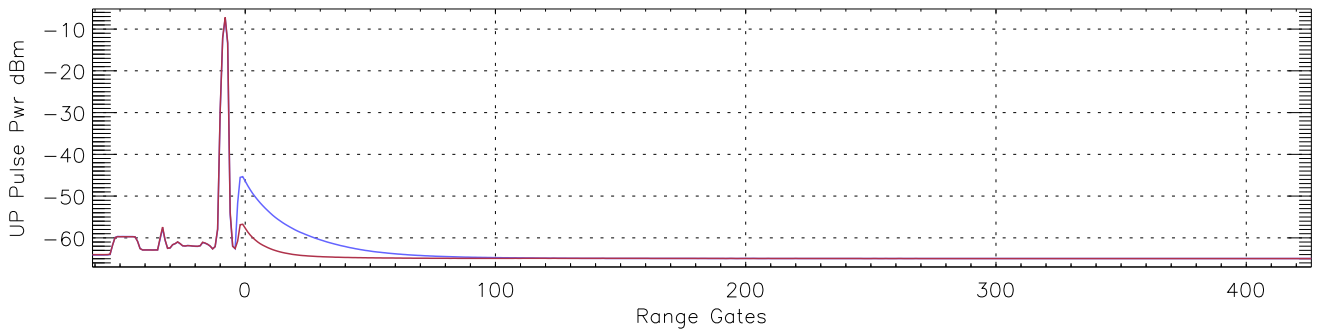
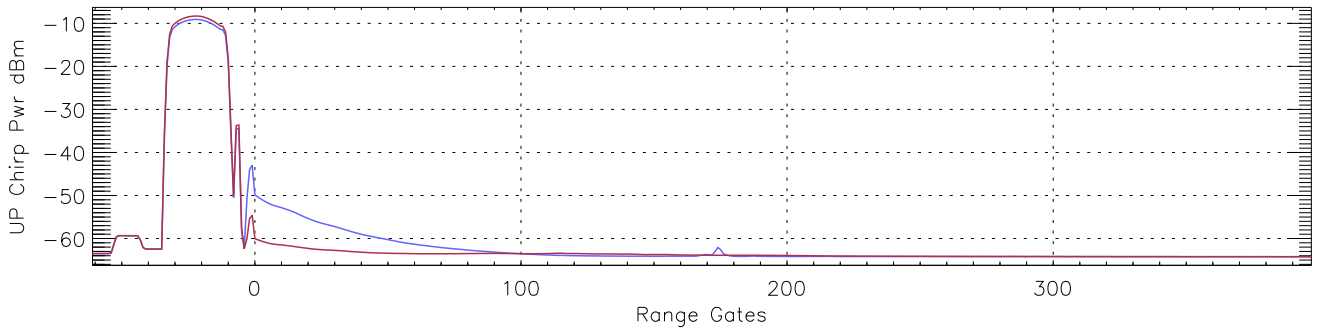
	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-97.16	-74.52	-79.71	-79.99	-82.51
UP Pulse(dBm)	-101.29	-75.26	-80.49	-80.78	-83.24
DOWN Chirp(dBm)	-96.14	-72.79	-78.30	-78.63	-81.04
DOWN Pulse(dBm)	-96.82	-73.59	-78.80	-79.06	-81.62



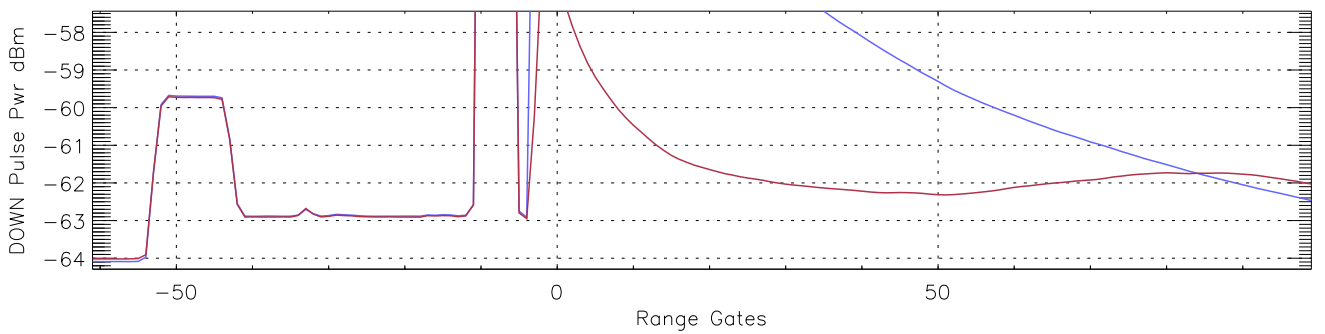
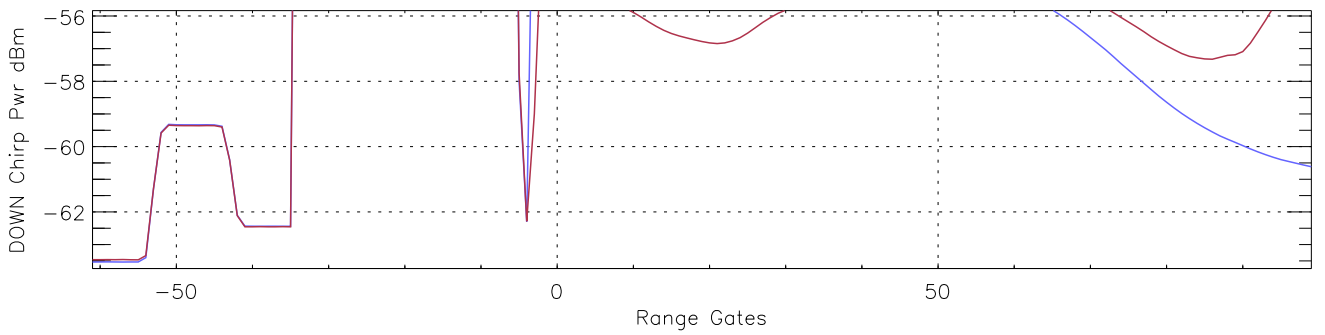
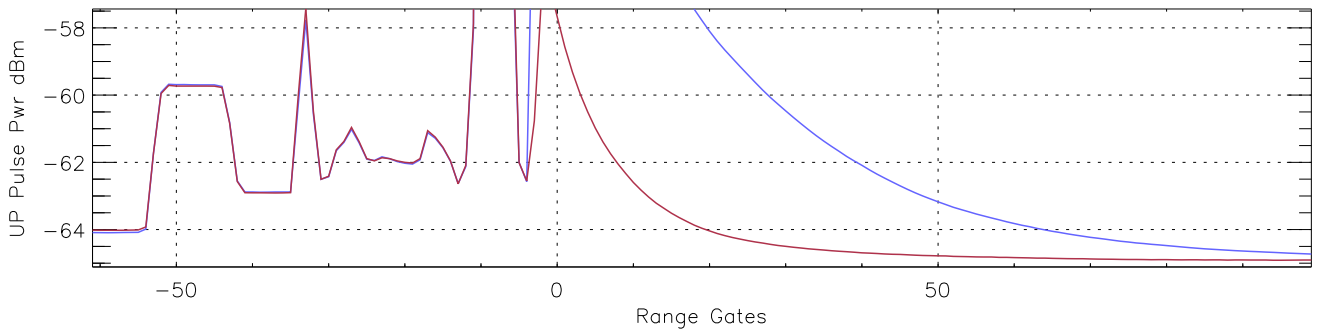
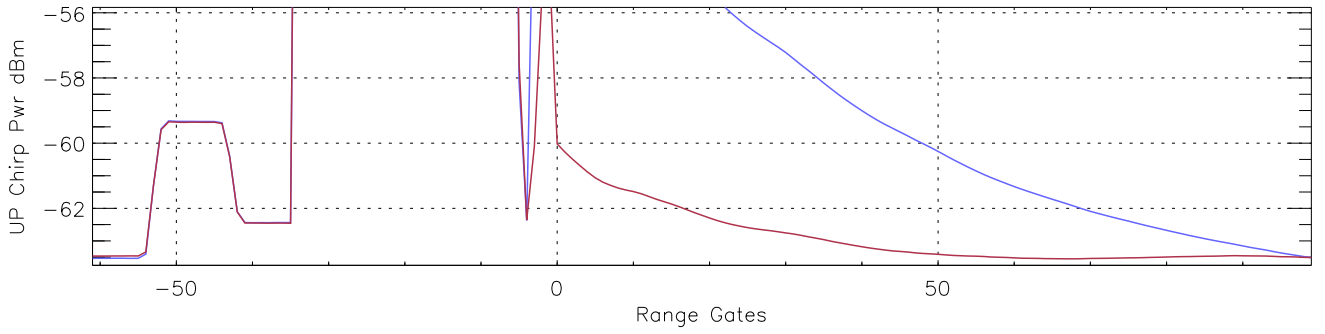
KPR SPP "Best" PPMAG noise (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RM_0	-97.16	-74.52	-79.71	-79.99	-82.51
UP_P_RG384_0	-102.79	-75.31	-80.42	-80.72	-83.08
DOWN_C_RG356_9	-97.81	-73.19	-78.30	-78.55	-81.16
DOWN_P_RG335_9	-95.04	-73.85	-78.84	-79.16	-81.67

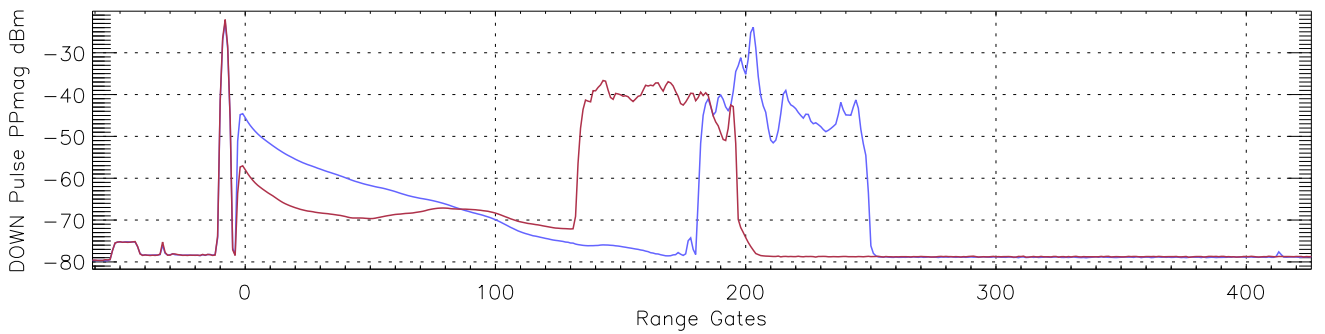
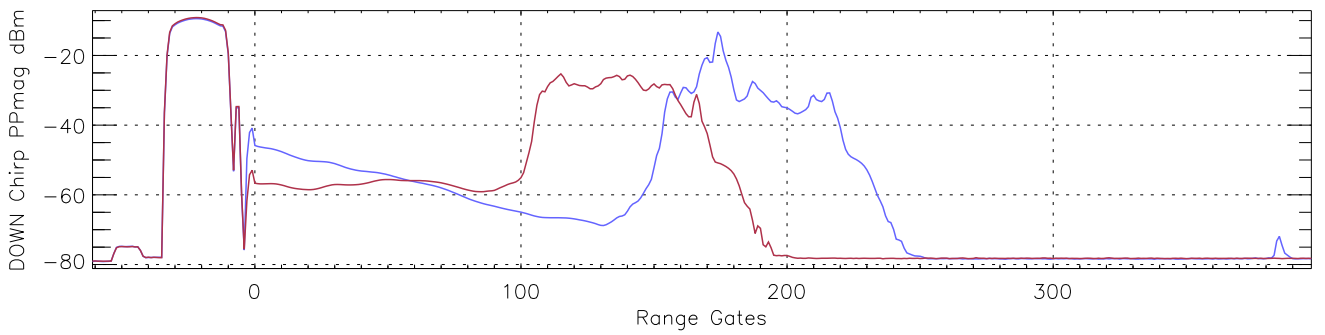
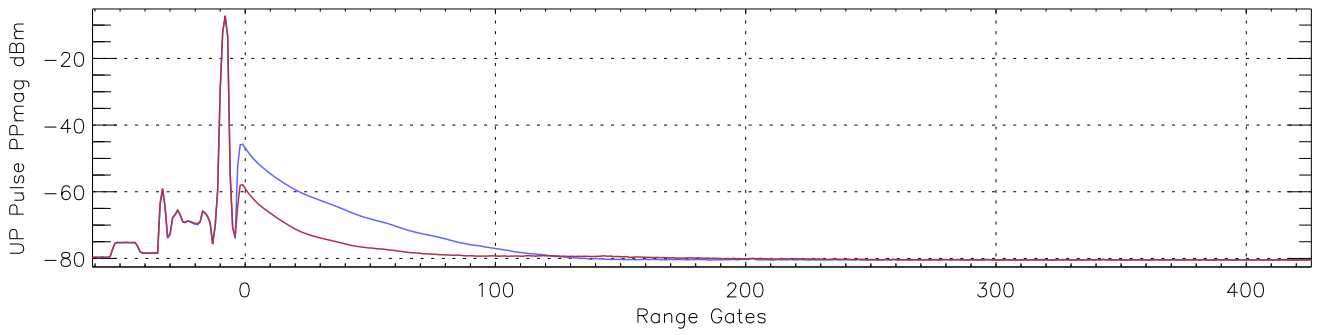
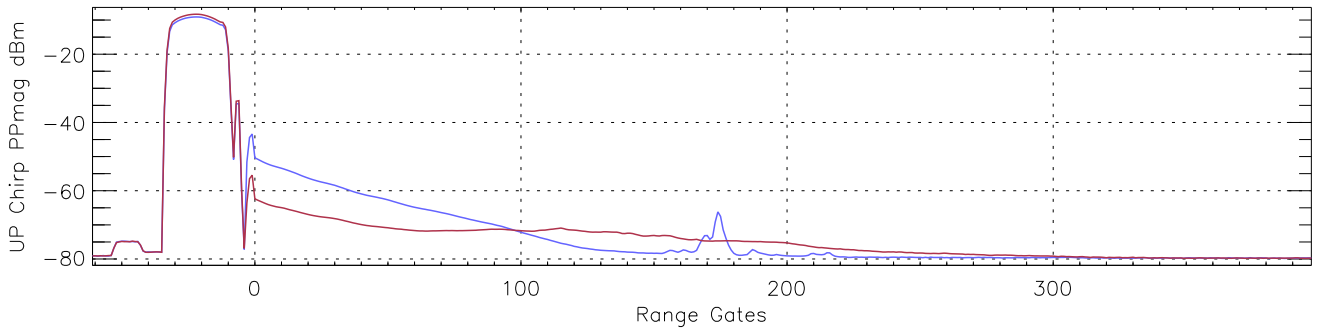




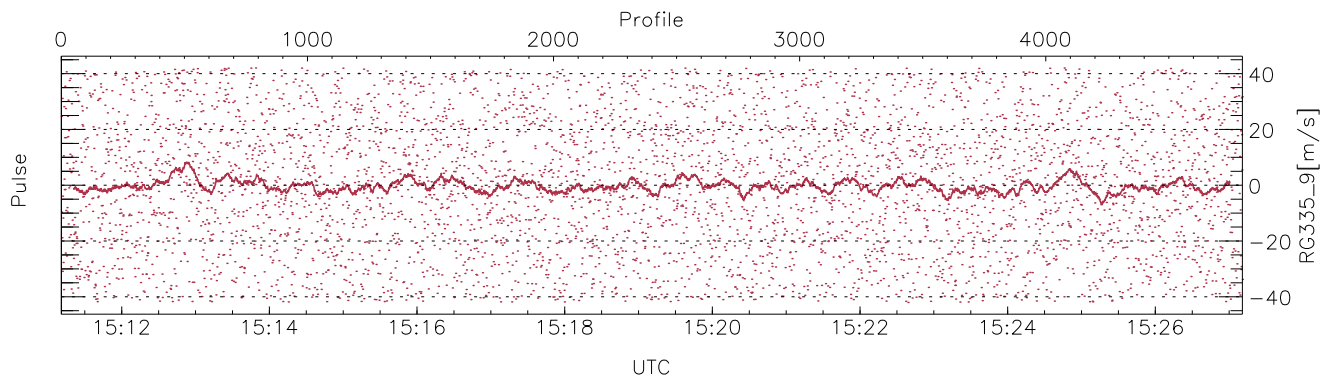
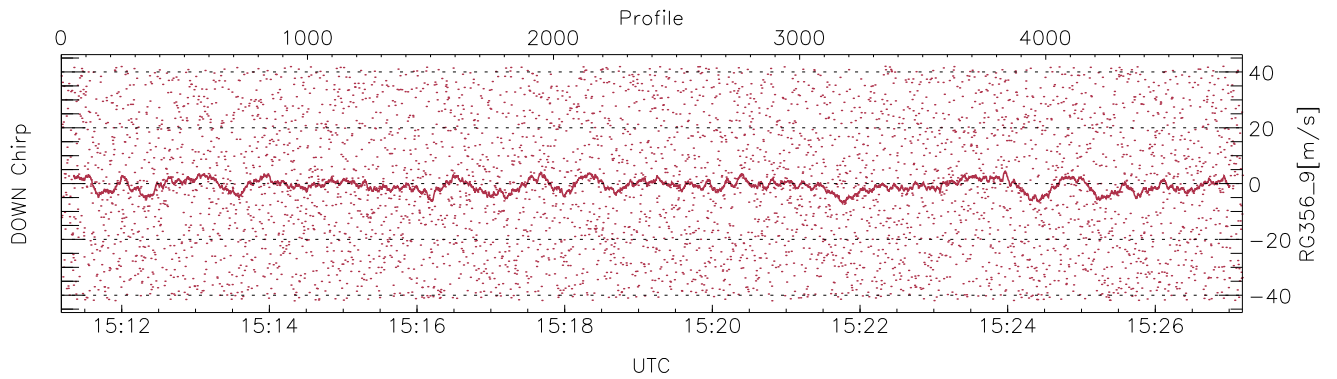
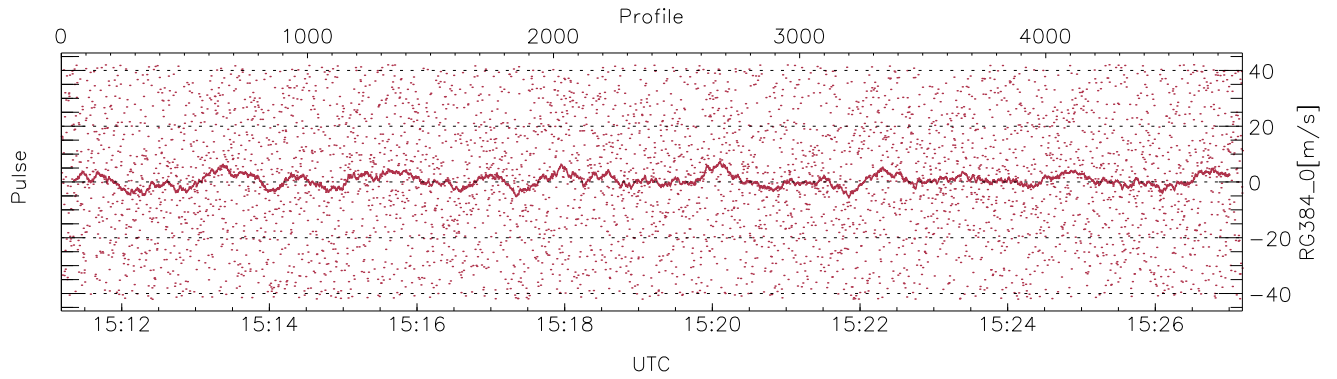
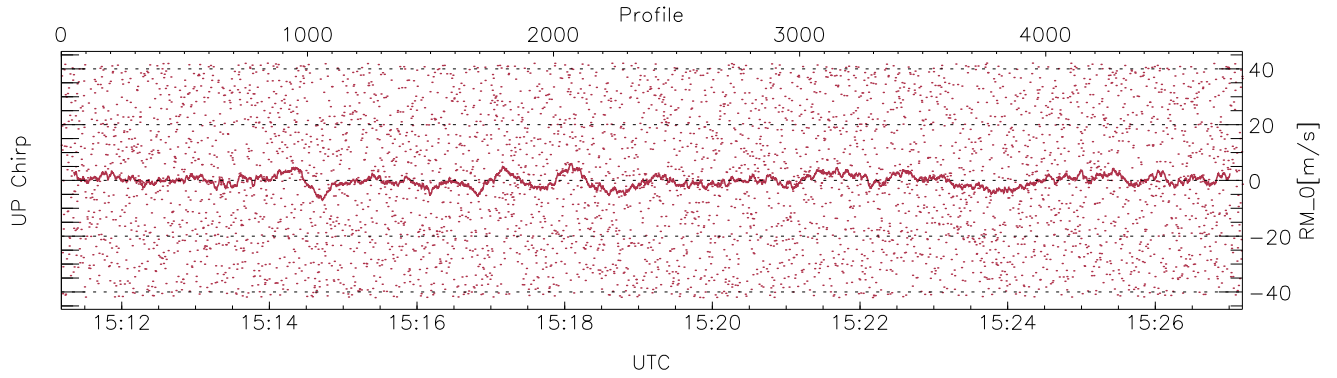
KPR SPP Averaged Received power for all recorded gates  
blue: 151111-151910, 2401 profiles averaged  
red: 151910-152711, 2400 profiles averaged



KPR SPP Averaged Power for neg. gates & up to 100 gates  
blue: 151111-151910, 2401 profiles averaged  
red: 151910-152711, 2400 profiles averaged

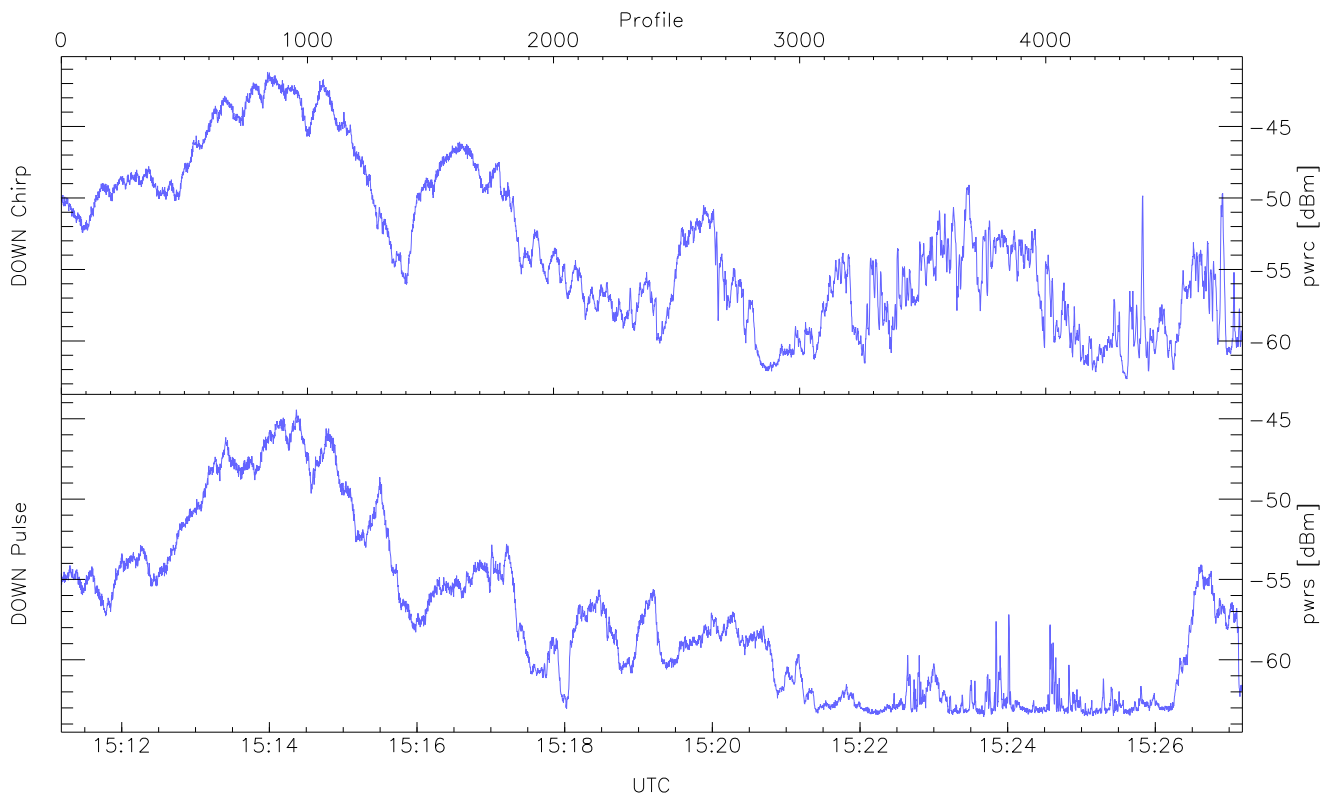
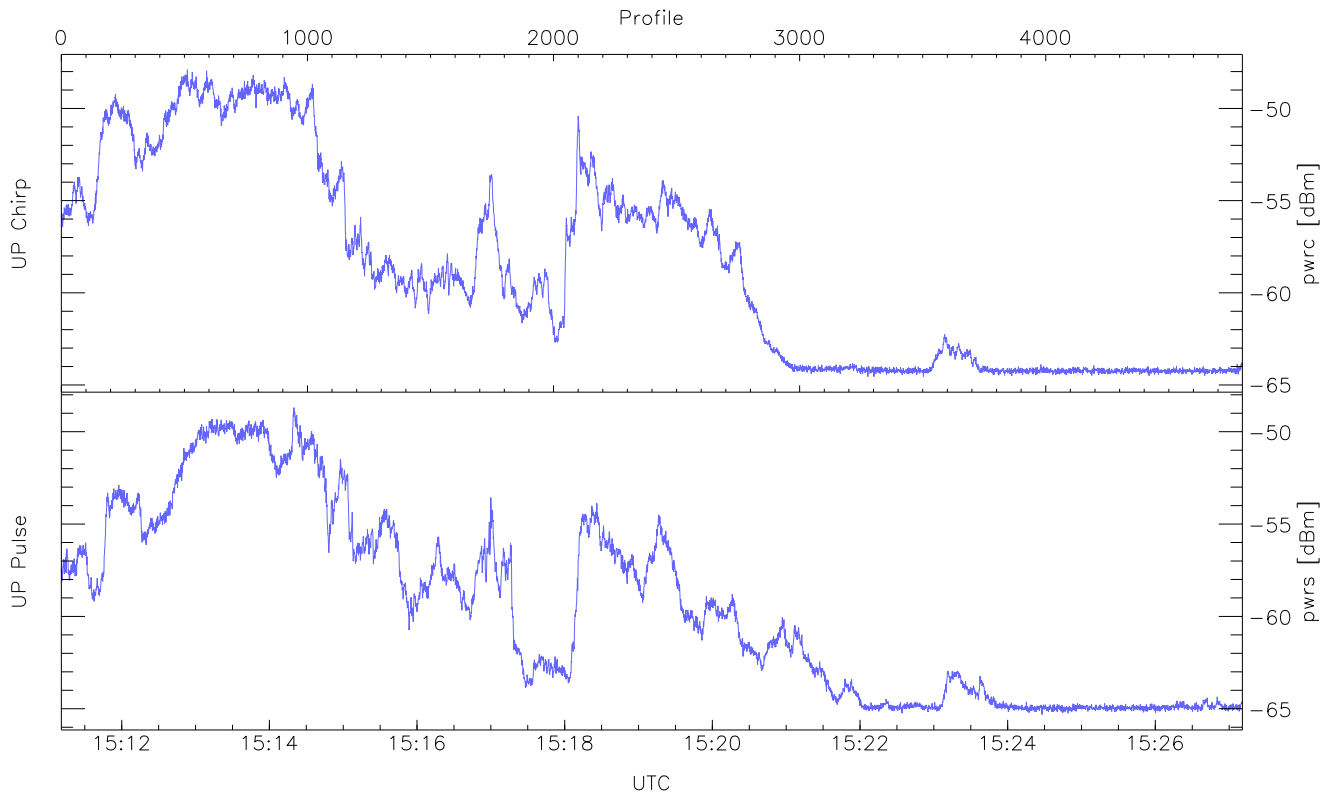


KPR SPP Averaged PP magnitude for all recorded gates  
blue: 151111-151910, 2401 profiles averaged  
red: 151910-152711, 2400 profiles averaged



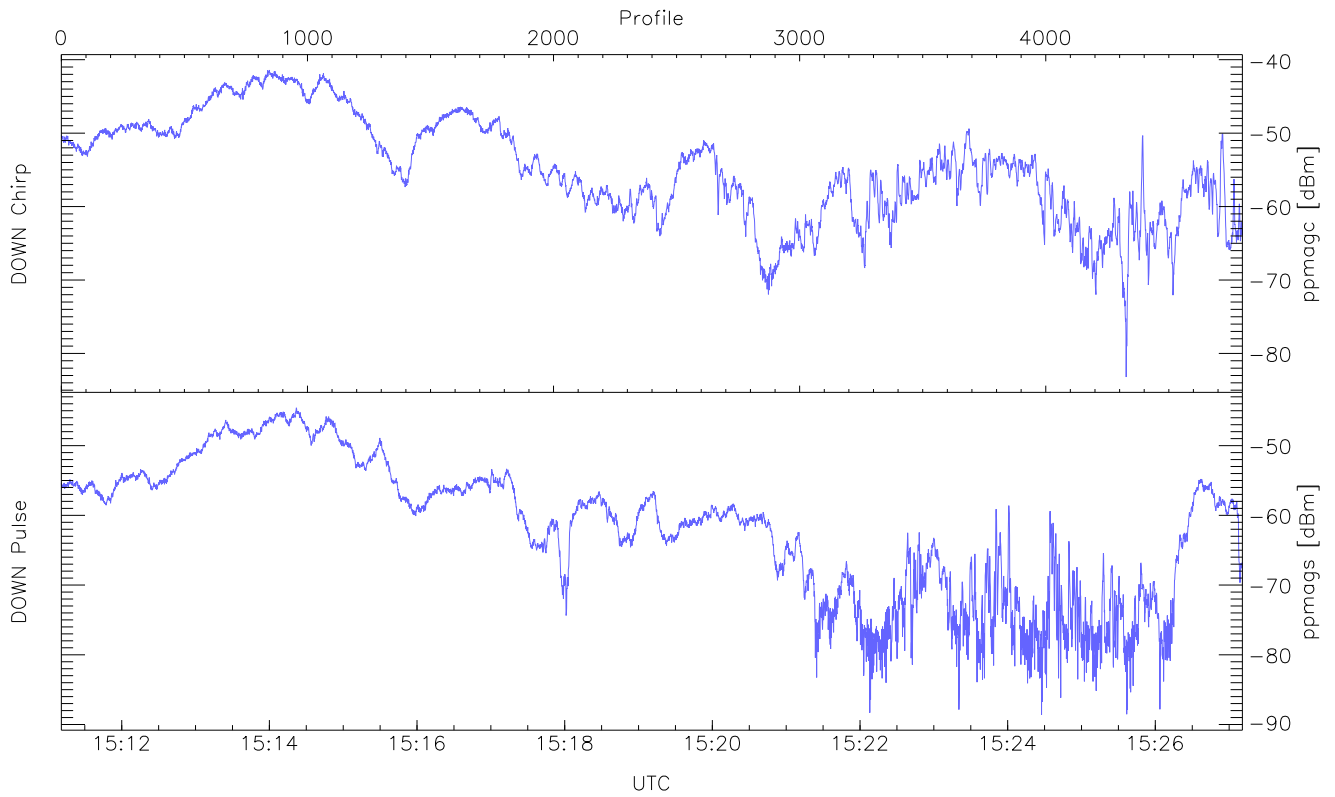
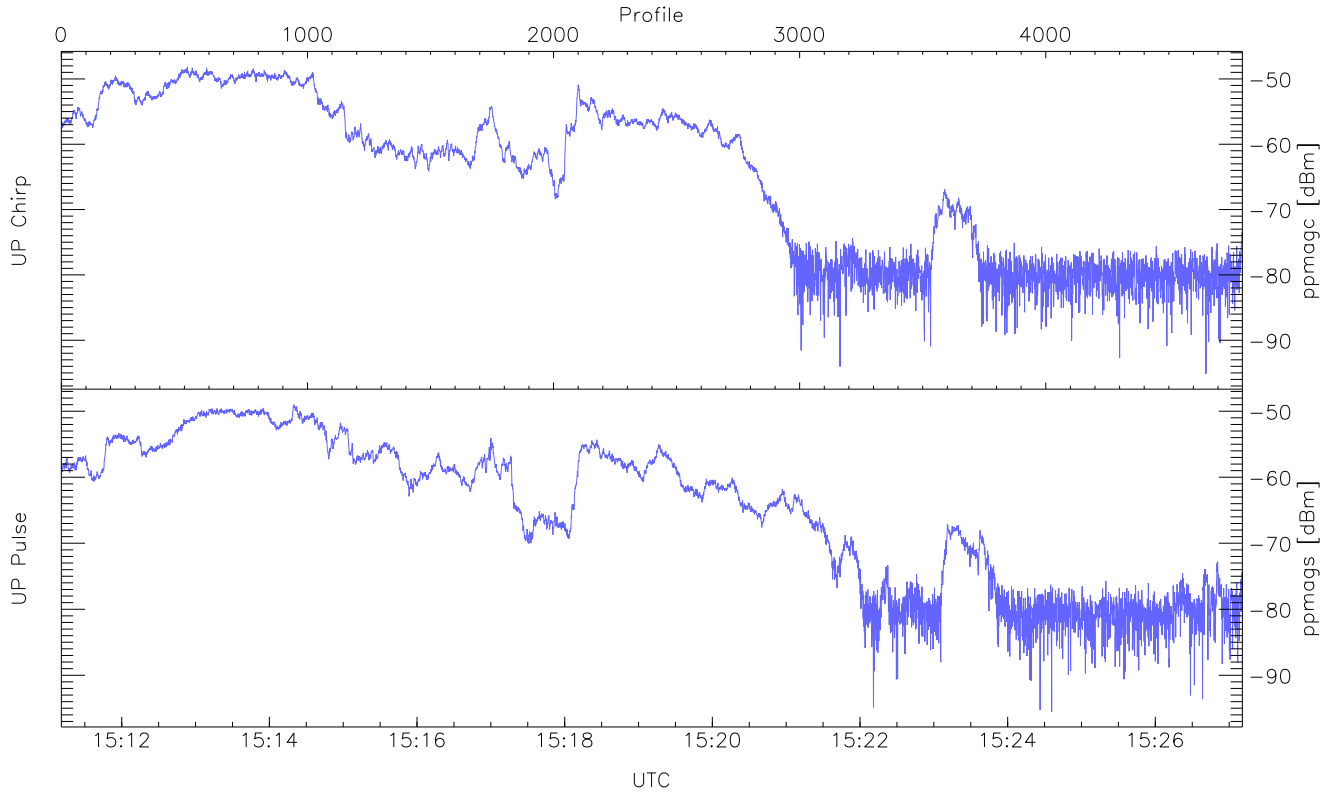
KPR SPP "Best" PPVEL noise (m/s):

	Min	Max	Mean	Median	StDev
UP_C_RM_0	-42.04	42.06	-0.10	-0.32	24.40
UP_P_RG384_0	-42.05	42.05	0.55	1.04	22.56
DOWN_C_RG356_9	-42.02	42.02	-0.82	-1.32	24.02
DOWN_P_RG335_9	-42.03	42.06	-0.34	-0.01	23.07



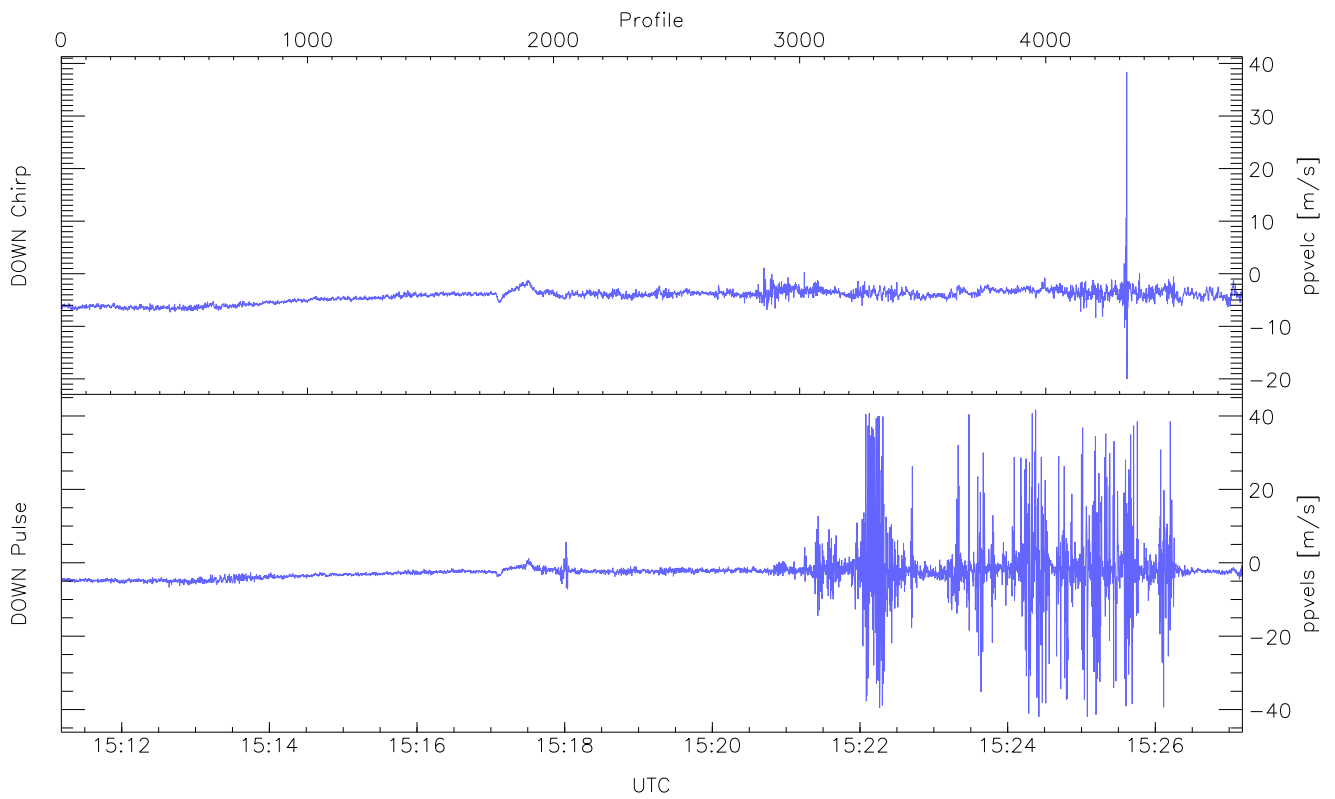
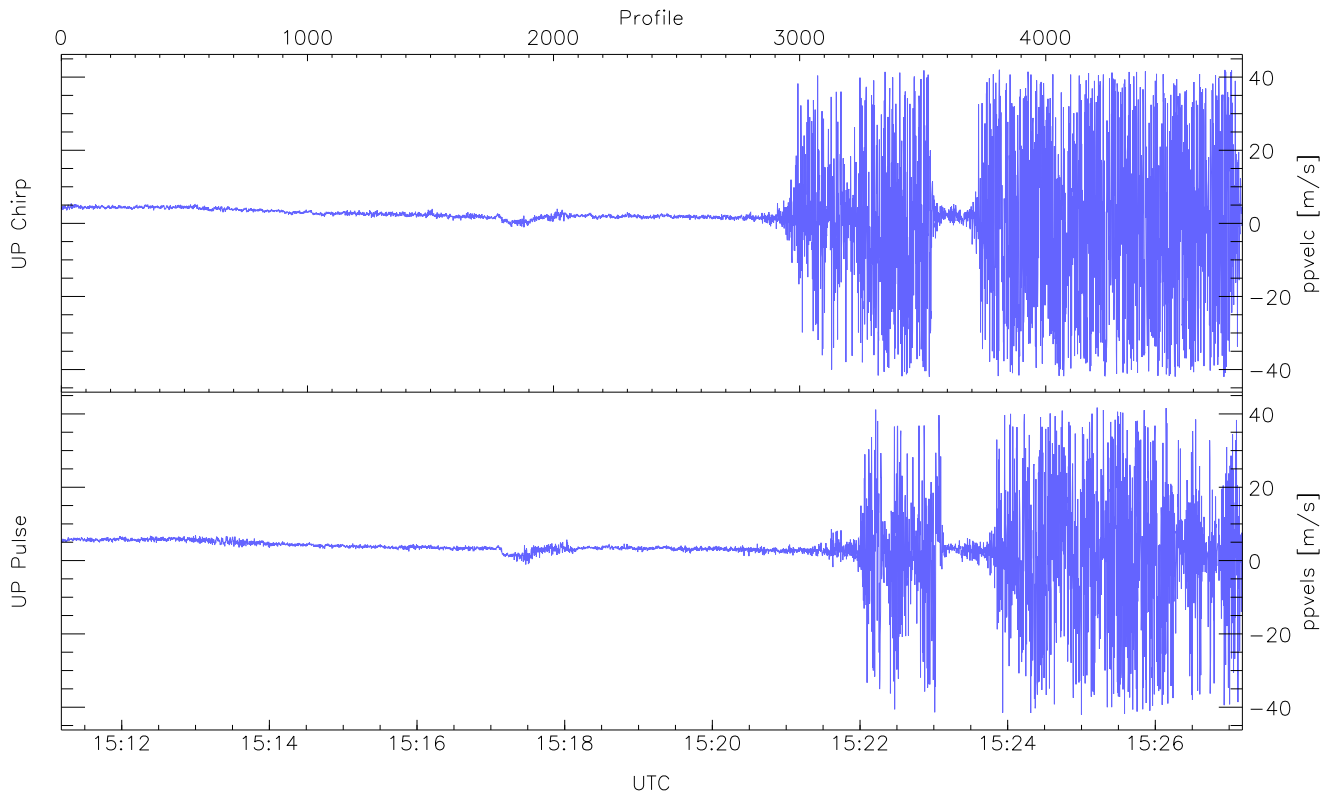
KPR SPP Received Power for Chirp Range gate 10 (686.2 m)  
 KPR SPP Received Power for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-64.56	-47.90	-55.29
UP Pulse(dBm)	-65.32	-48.69	-56.49
DOWN Chirp(dBm)	-62.66	-41.19	-49.71
DOWN Pulse(dBm)	-63.55	-44.44	-53.87



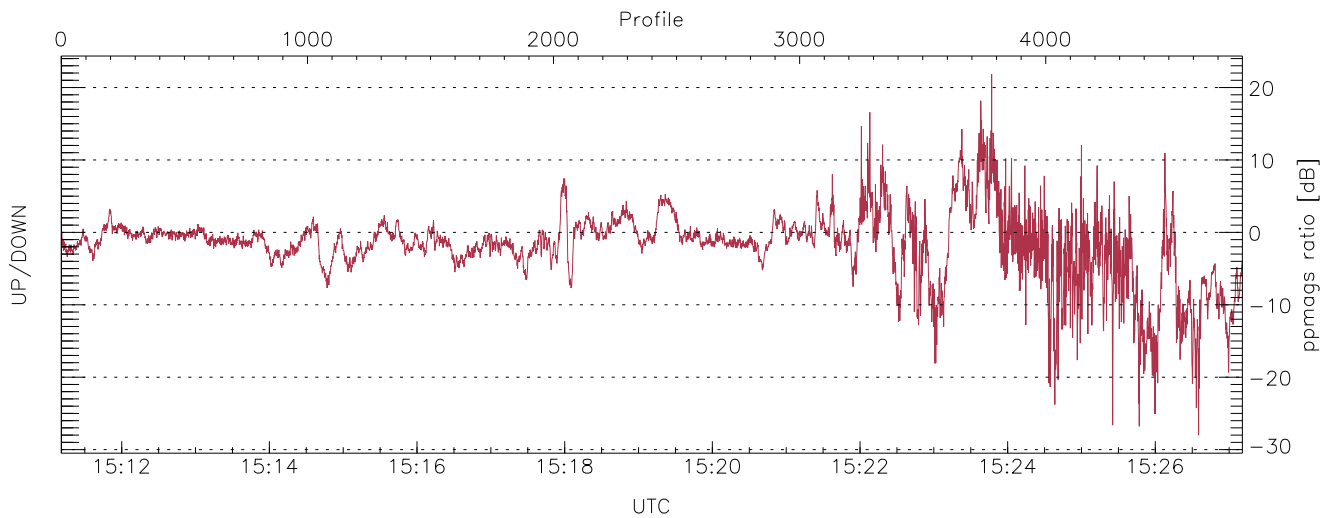
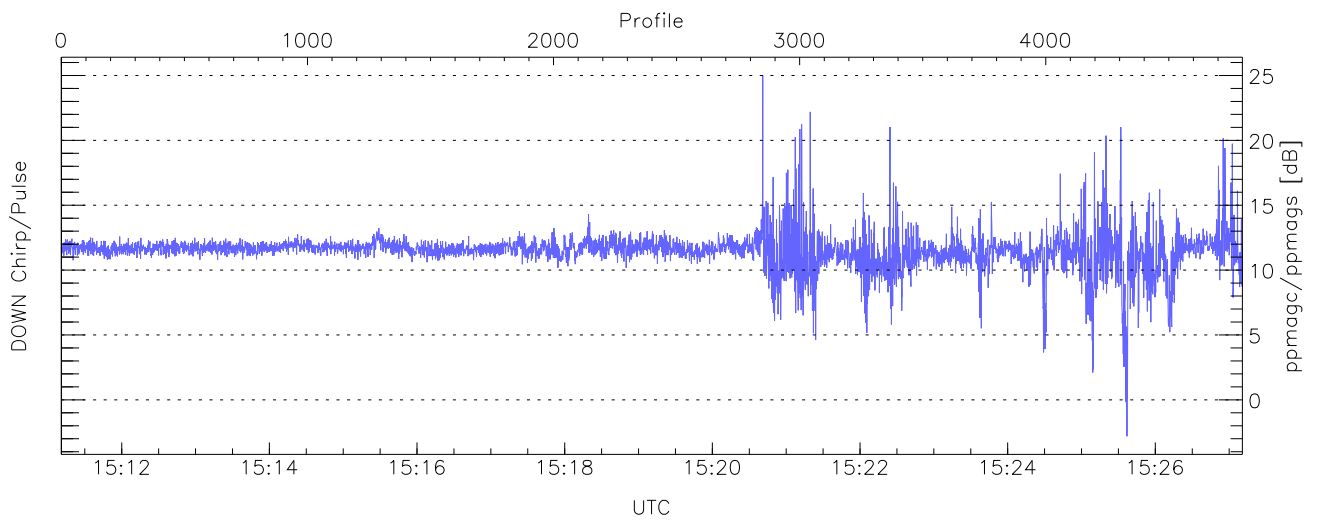
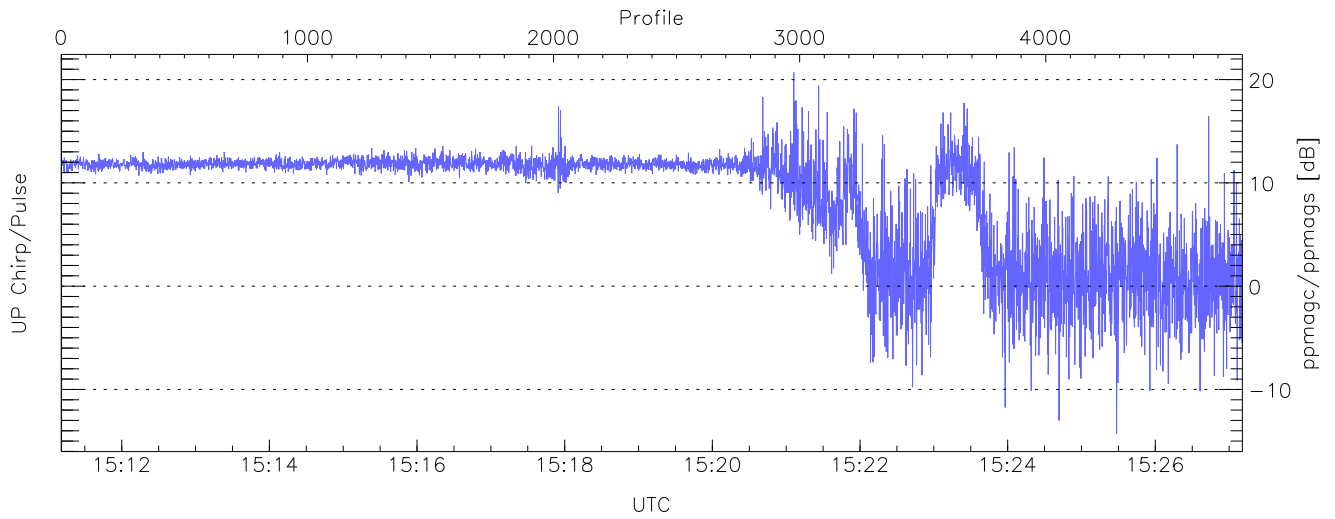
KPR SPP PPMAG for Chirp Range gate 10 (686.2 m)  
 KPR SPP PPMAG for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-95.15	-48.14	-56.14
UP Pulse(dBm)	-95.51	-48.98	-57.29
DOWN Chirp(dBm)	-83.21	-41.40	-50.17
DOWN Pulse(dBm)	-88.61	-44.57	-54.53



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)	-41.99	42.01	1.66
UP Pulse(m/s)	-42.02	41.73	3.01
DOWN Chirp(m/s)	-20.03	38.38	-4.25
DOWN Pulse(m/s)	-41.96	41.69	-2.60



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

	Min	Max	Mean
UP Chirp/Pulse(dBm)	-14.27	20.69	10.51
DOWN Chirp/Pulse(dBm)	-2.81	25.02	11.71
UP/DOWN Ratio at Range 135.8 m			
	Min	Max	Mean
UP/DOWN(dB)	-28.00	21.86	0.77