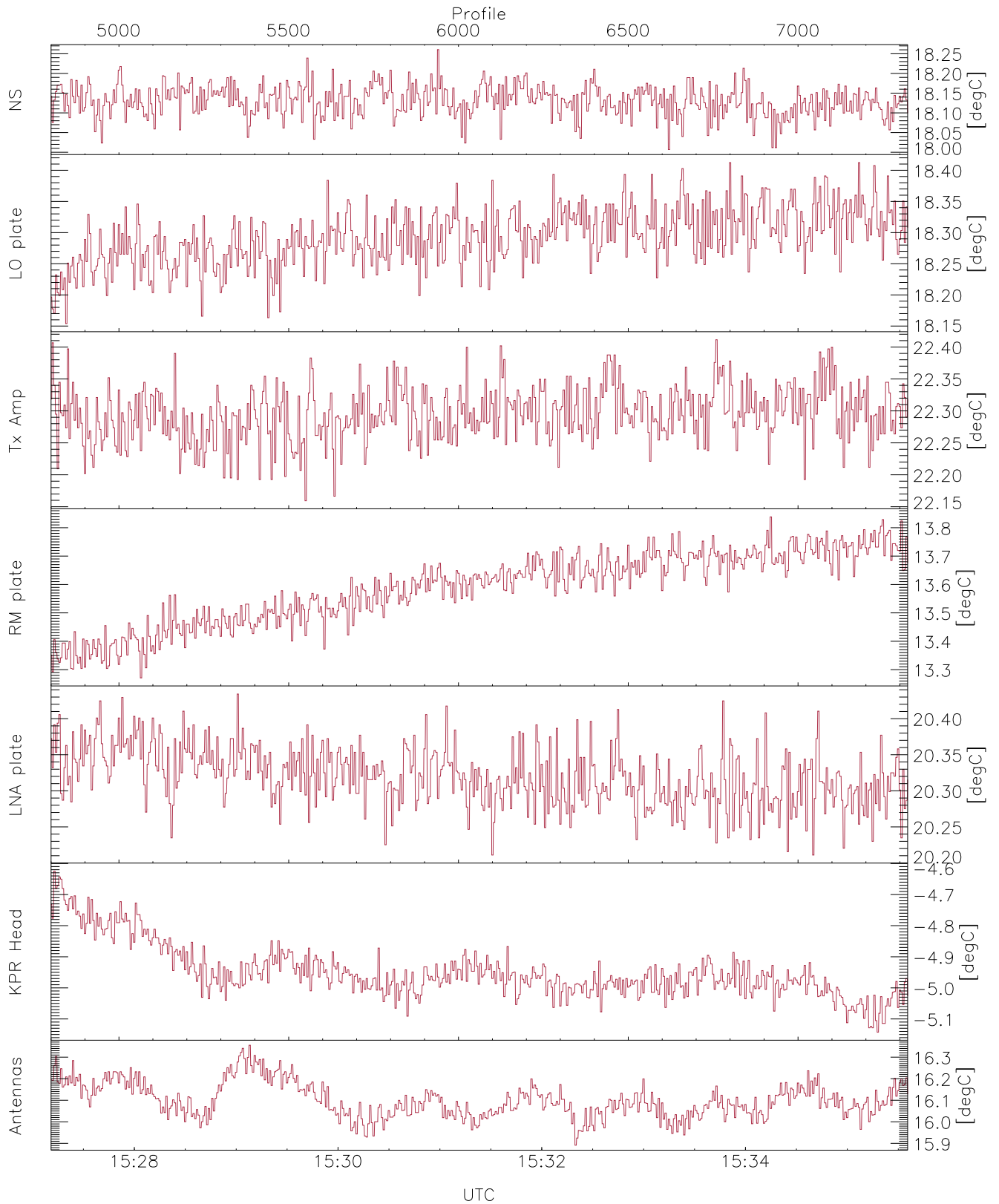


KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF  
 UTC: 15:11:11-15:35:36, TimeCor: 0.00s, Dur: 504.60s  
 TimeInt(min,max,mn,std): 193.7,206.4,200.0,0.5 ms; PPS: 5.0  
 NumRec(r/t): 2524/7324, 4800-7323/15:27:11-15:35:36  
 AcqTime(req,actual): 200.0,200.0 ms, Data Rate: 187.6 KB/s  
 Pulse: 247 ns, Chirp: 2.47 us, DRxIF: 5.0 MHz  
 PRF: 20.0 KHz, avrgPulses: 2000, avrgPP: 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

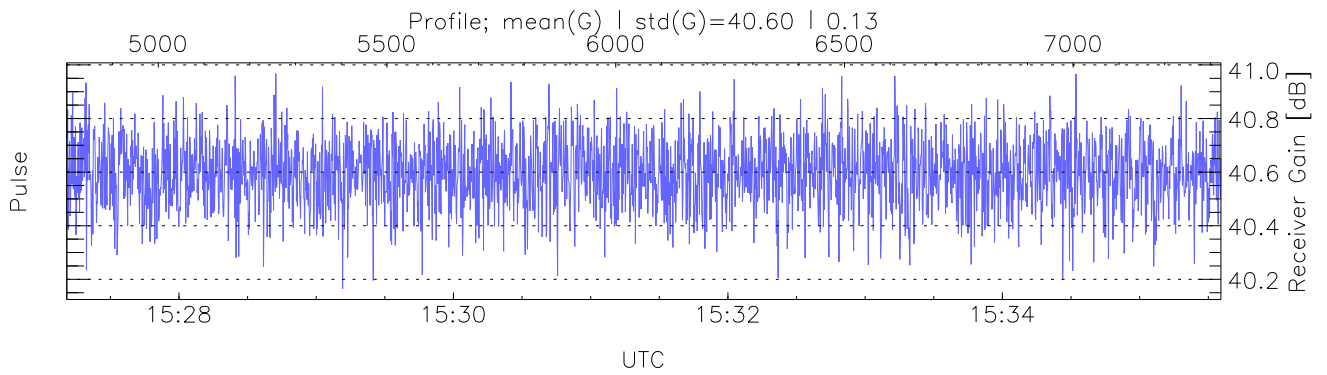
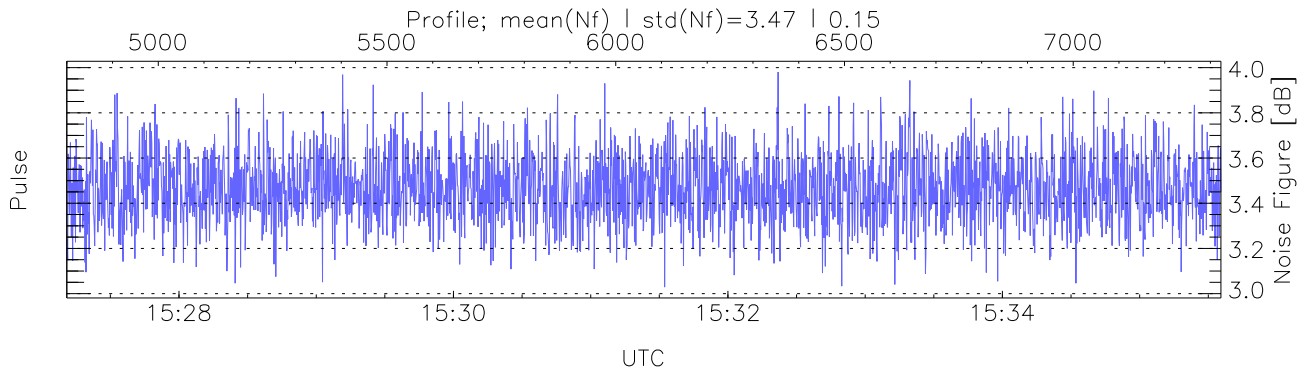
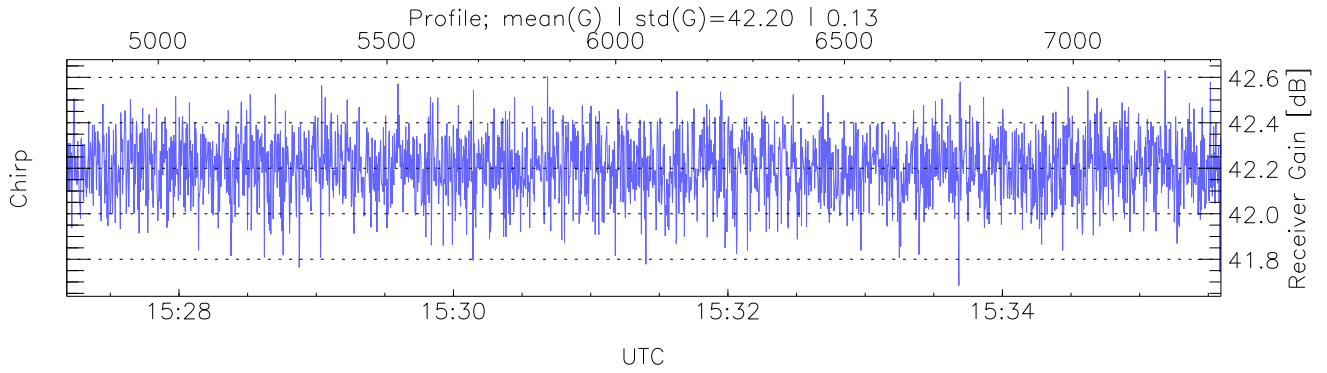
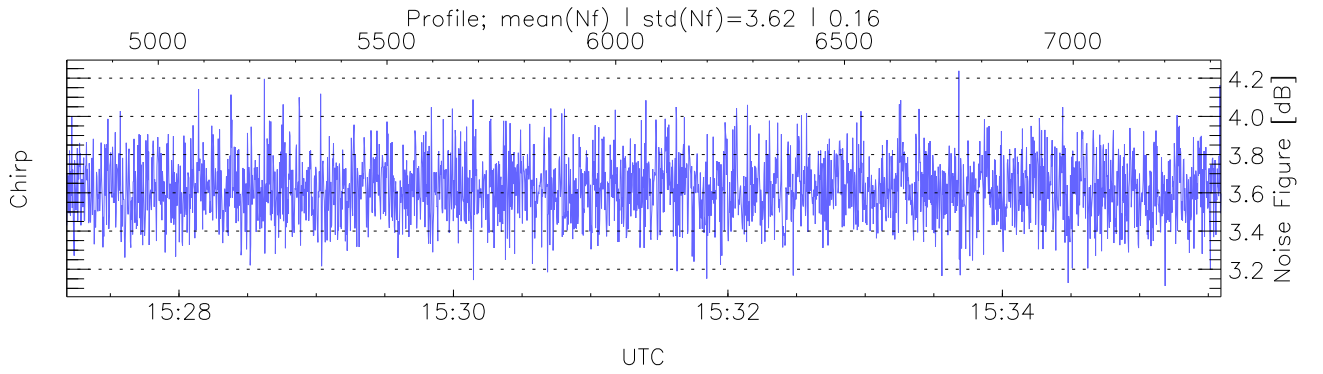


KPR SPP Temperatures, Power Supplies, PLO lock:

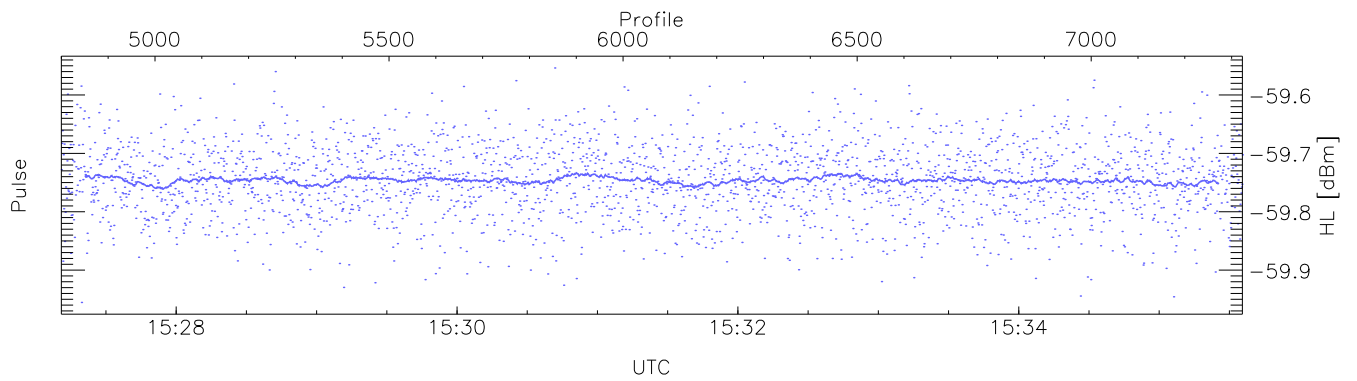
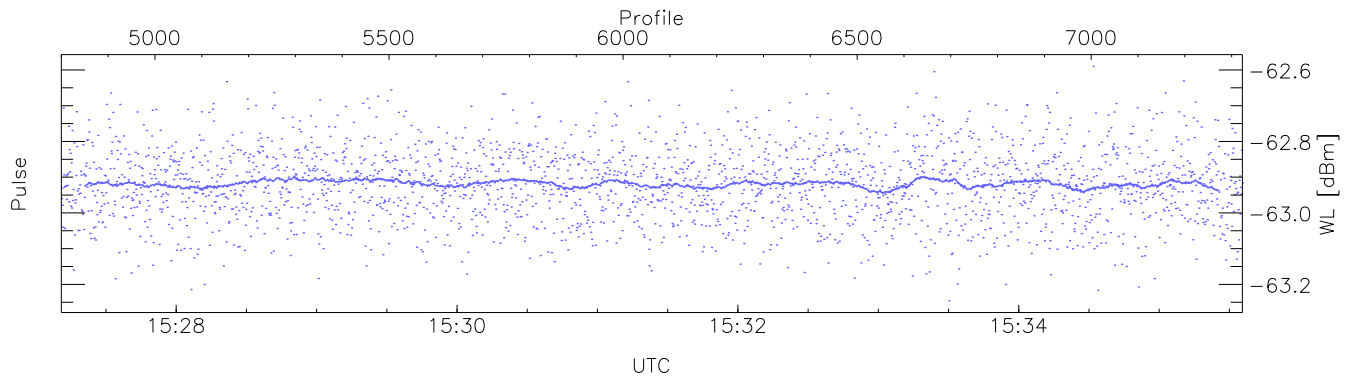
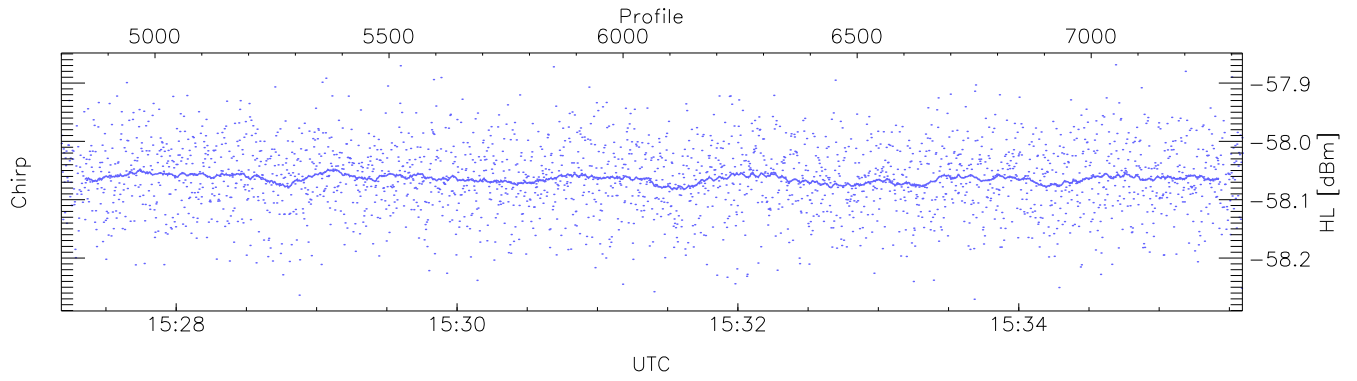
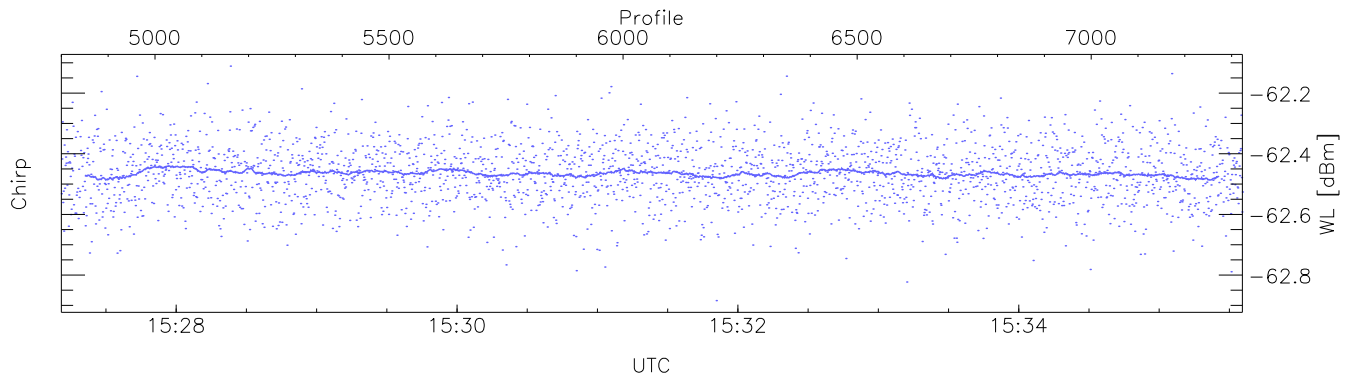
temperature:	NS,	LO,	Tx,	RM,	LNA,	Head,	Ant
mintempC:	18.0,	18.2,	22.2,	13.3,	20.2,	-5.1,	15.9
maxtempC:	18.3,	18.4,	22.4,	13.8,	20.4,	-4.6,	16.4
meantempC:	18.1,	18.3,	22.3,	13.6,	20.3,	-4.9,	16.1

PwrSply:	28,	12,	8,	5 VDC
minVDC:	25.49,	11.68,	7.87,	5.21
maxVDC:	27.73,	11.73,	7.90,	5.23
meanVDC:	26.87,	11.71,	7.88,	5.22

PLO(3.84,15.84 GHz) unlocked: None

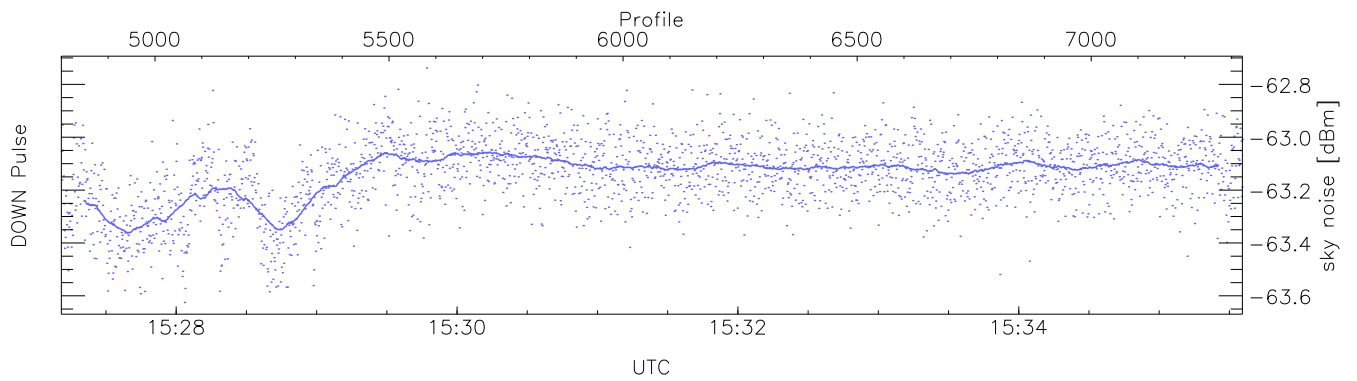
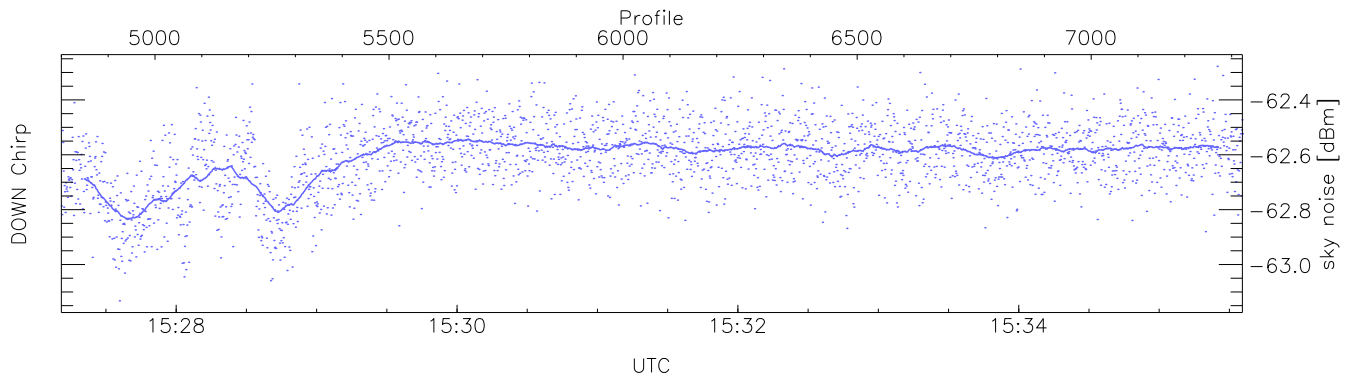
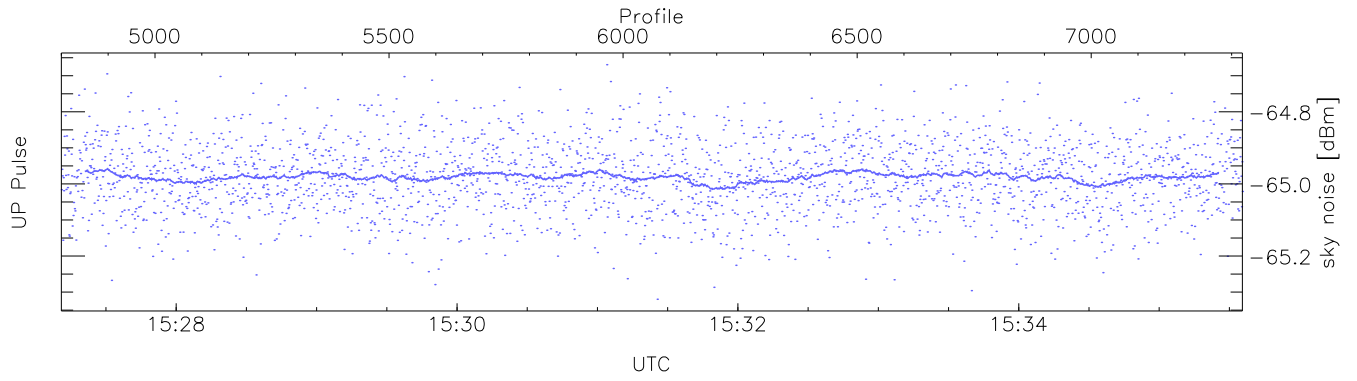
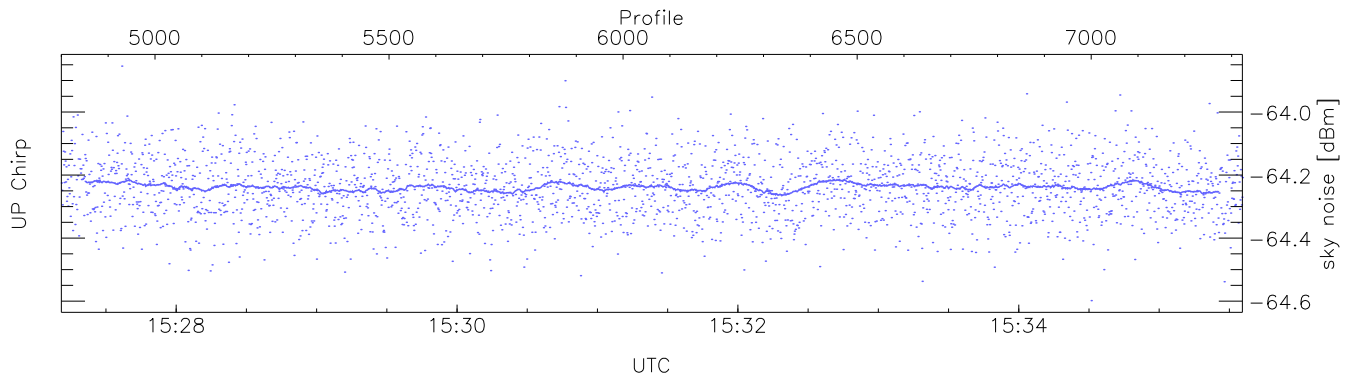


KPR SPP Receiver Gain and Noise Figure



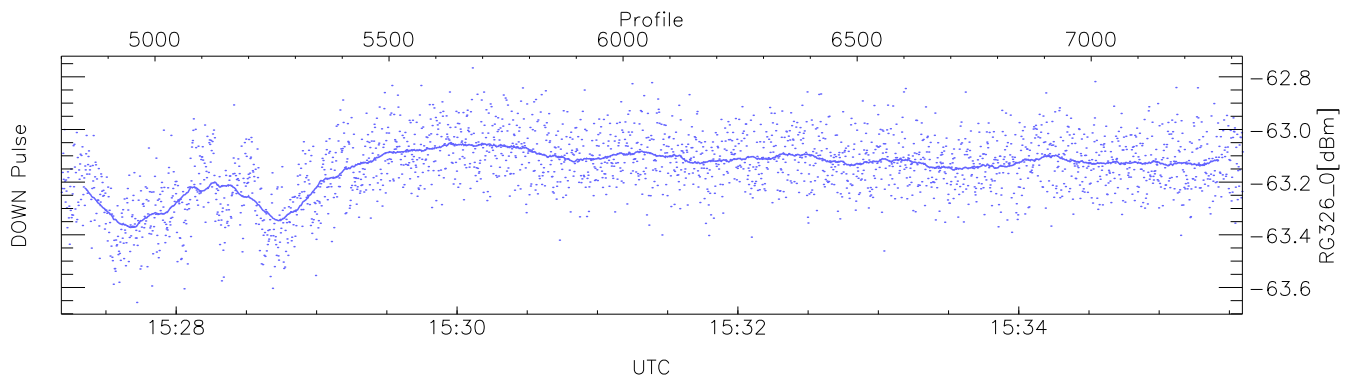
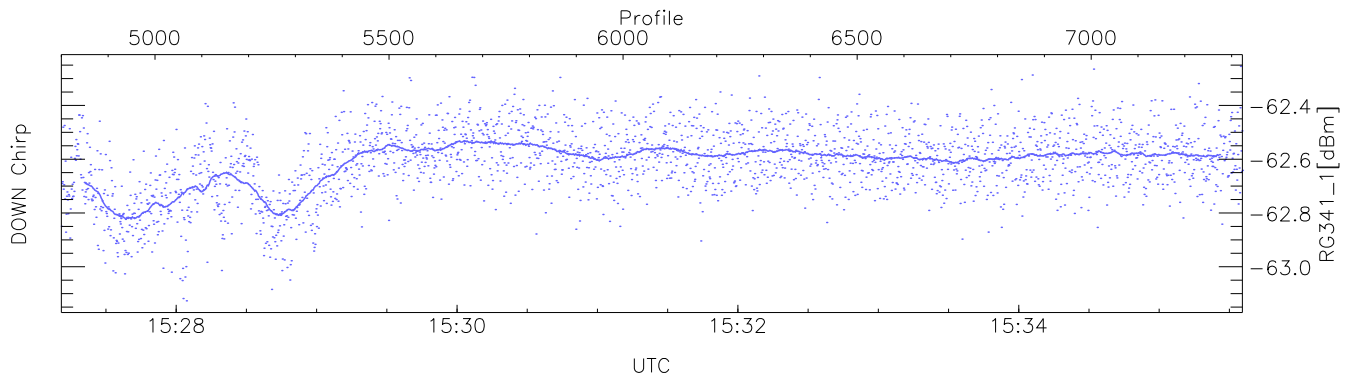
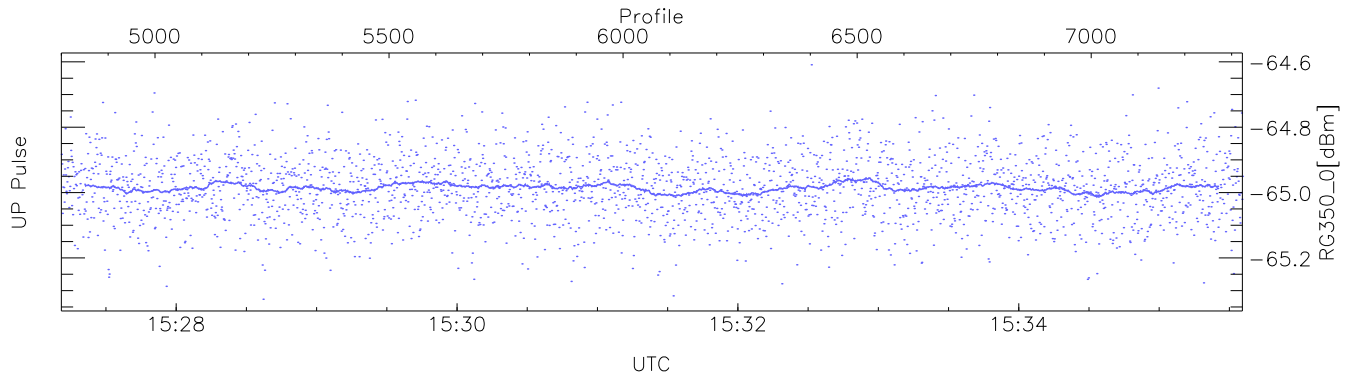
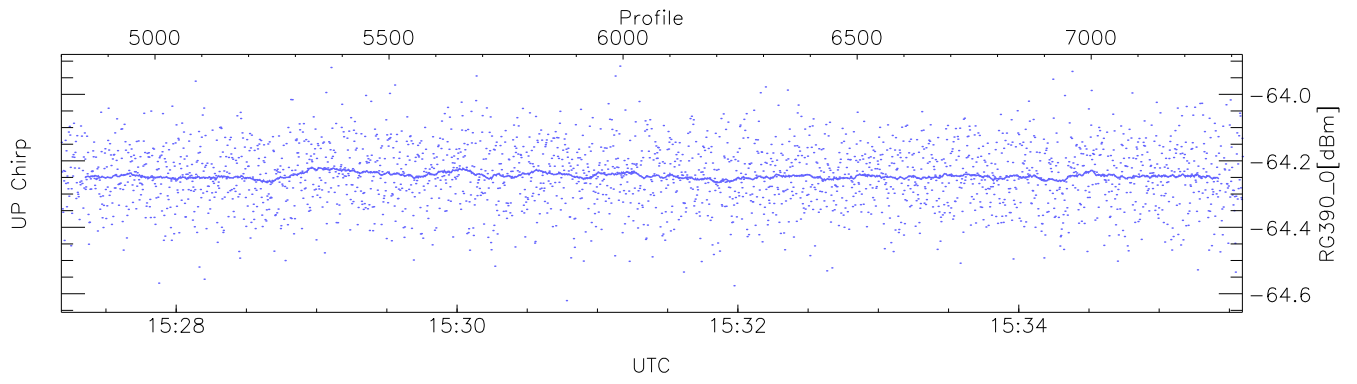
KPR SPP Receiver Noise Source Warm and Hot Measurements

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-62.88	-62.11	-62.46	-62.46	-78.93
Chirp(HL [dBm])	-58.27	-57.87	-58.06	-58.06	-76.50
Pulse(WL [dBm])	-63.25	-62.59	-62.92	-62.92	-79.33
Pulse(HL [dBm])	-59.96	-59.55	-59.75	-59.74	-78.28



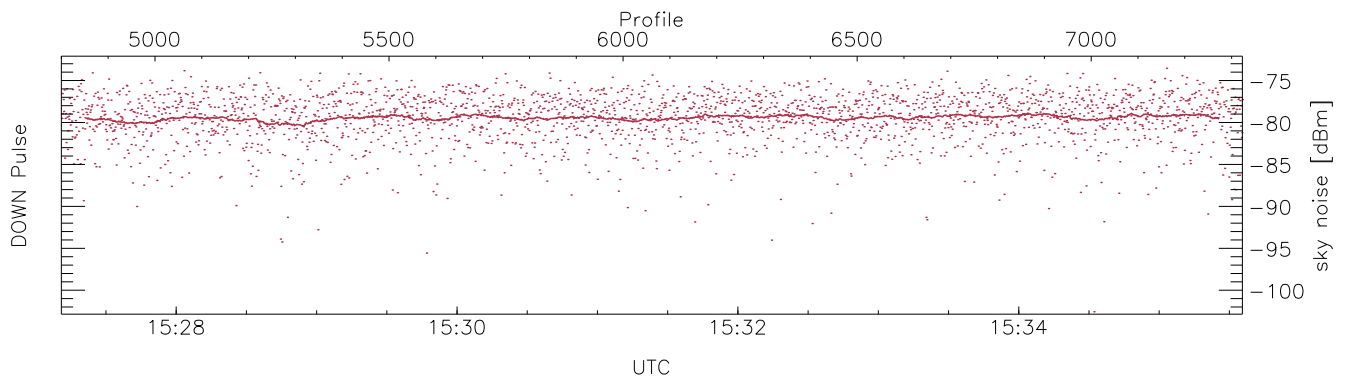
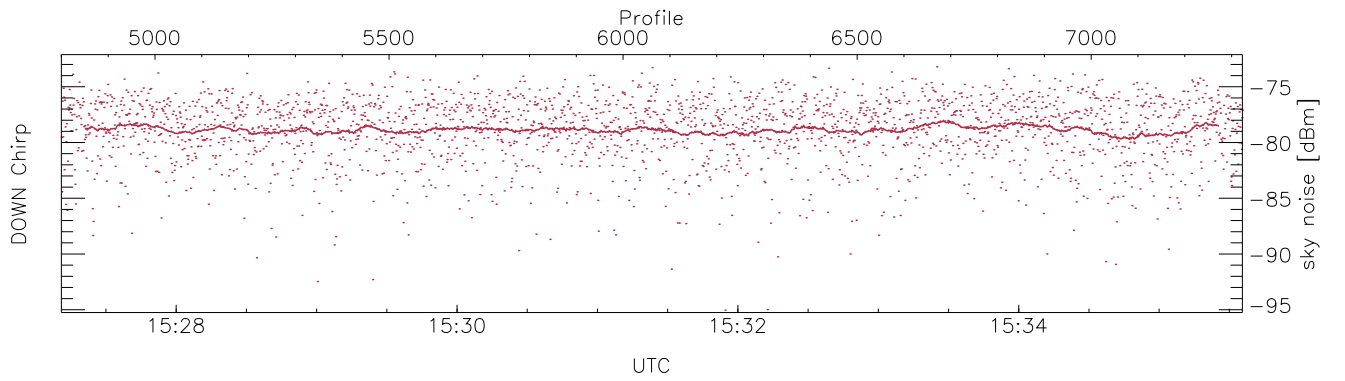
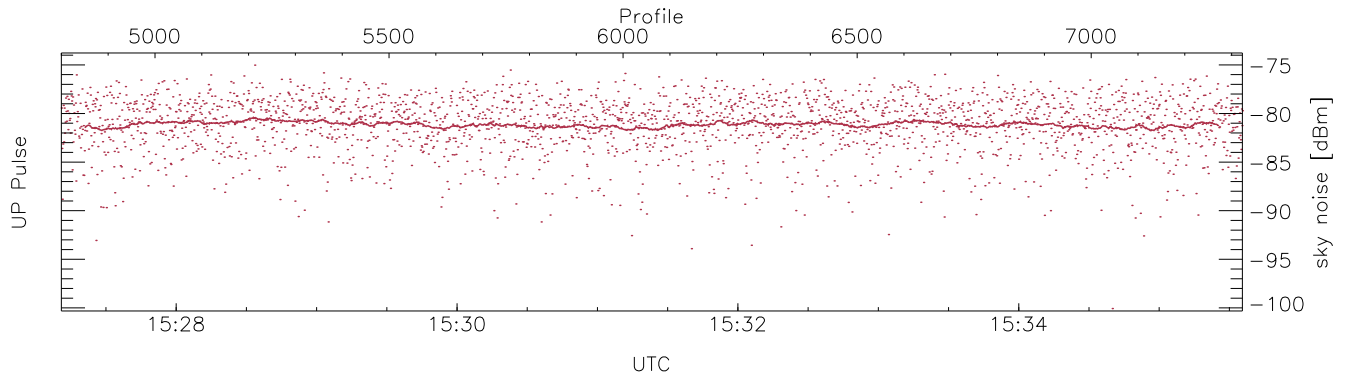
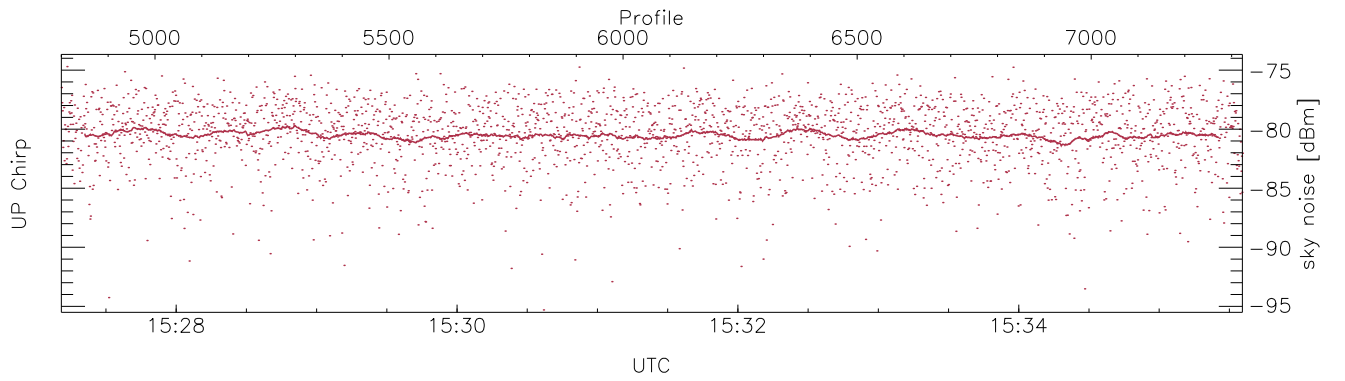
KPR SPP Last range gate power measurements: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-64.60	-63.85	-64.24	-64.24	-80.80
UP Pulse(dBm)	-65.32	-64.67	-64.98	-64.98	-81.50
DOWN Chirp(dBm)	-63.13	-62.28	-62.61	-62.60	-78.01
DOWN Pulse(dBm)	-63.62	-62.74	-63.14	-63.13	-78.37



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

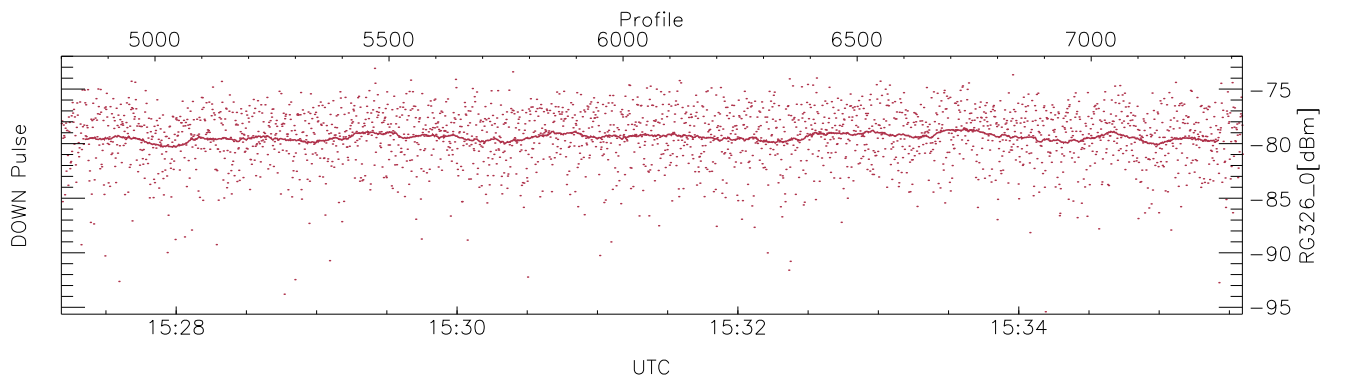
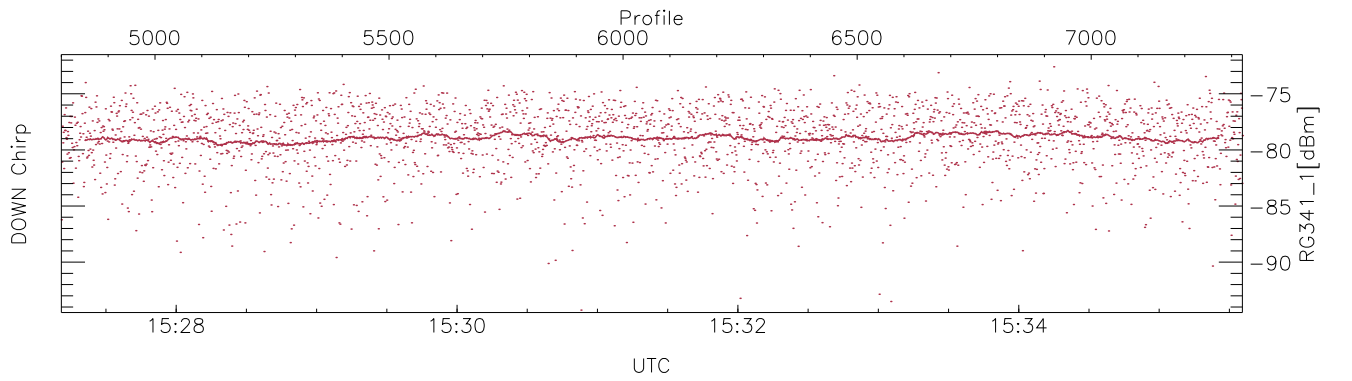
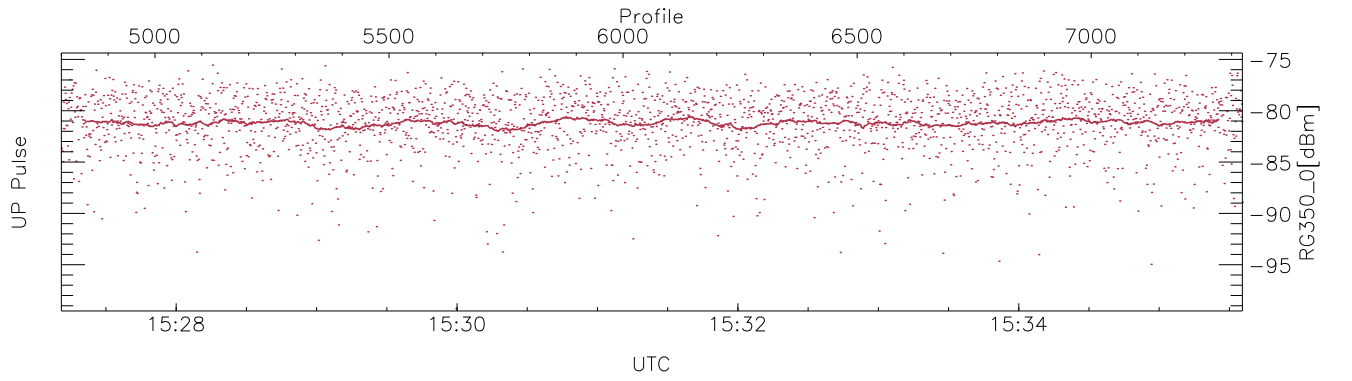
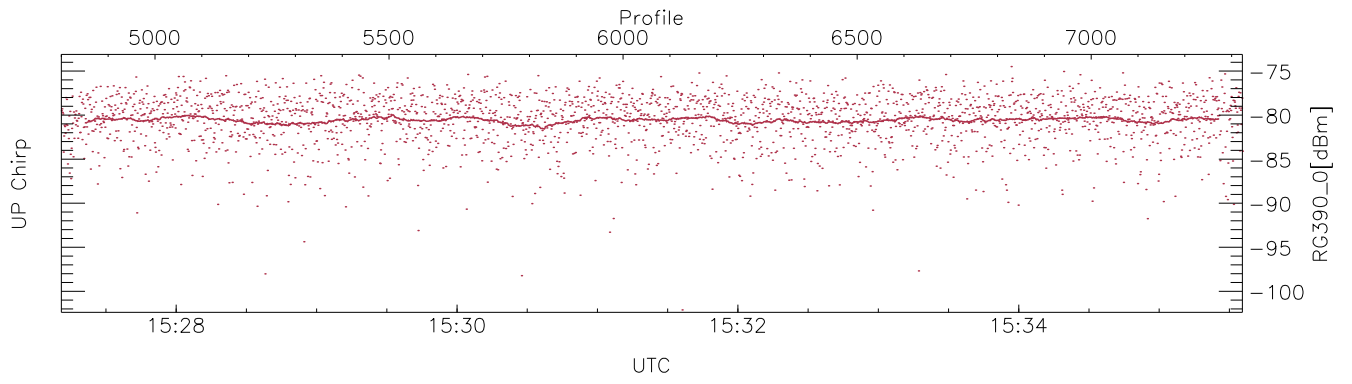
	Min	Max	Mean	Median	StDev
UP_C_RG390_0	-64.62	-63.92	-64.24	-64.24	-80.69
UP_P_RG350_0	-65.33	-64.61	-64.98	-64.99	-81.49
DOWN_C_RG341_1	-63.13	-62.25	-62.61	-62.60	-78.03
DOWN_P_RG326_0	-63.66	-62.77	-63.15	-63.14	-78.44



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

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-95.30	-74.70	-79.78	-80.04	-82.57
UP Pulse(dBm)	-100.07	-75.03	-80.39	-80.72	-83.14
DOWN Chirp(dBm)	-95.03	-73.21	-78.11	-78.39	-80.87
DOWN Pulse(dBm)	-102.56	-73.55	-78.70	-79.00	-81.43

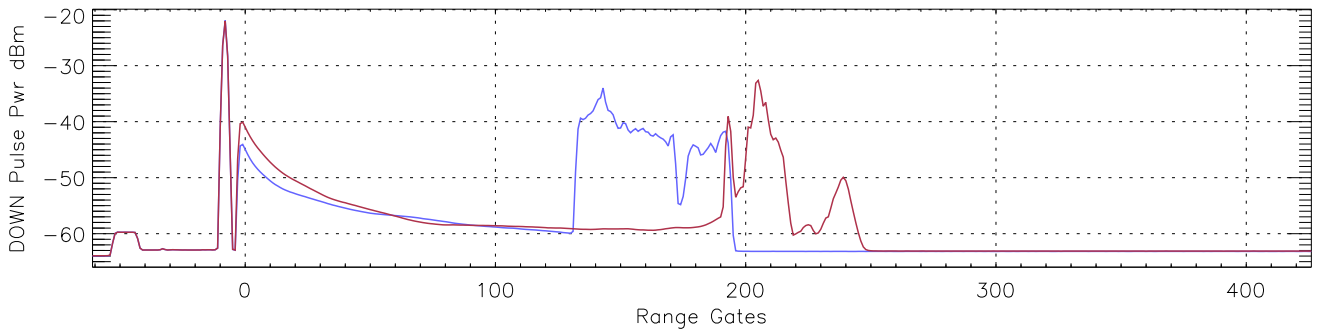
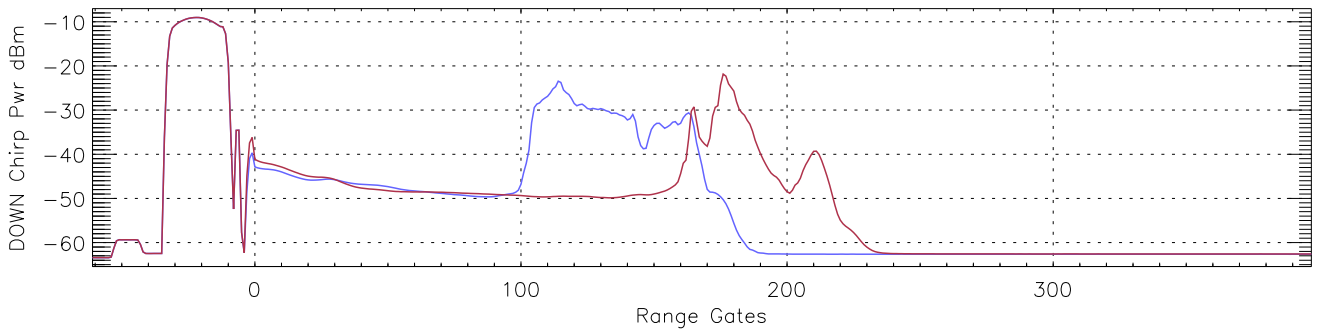
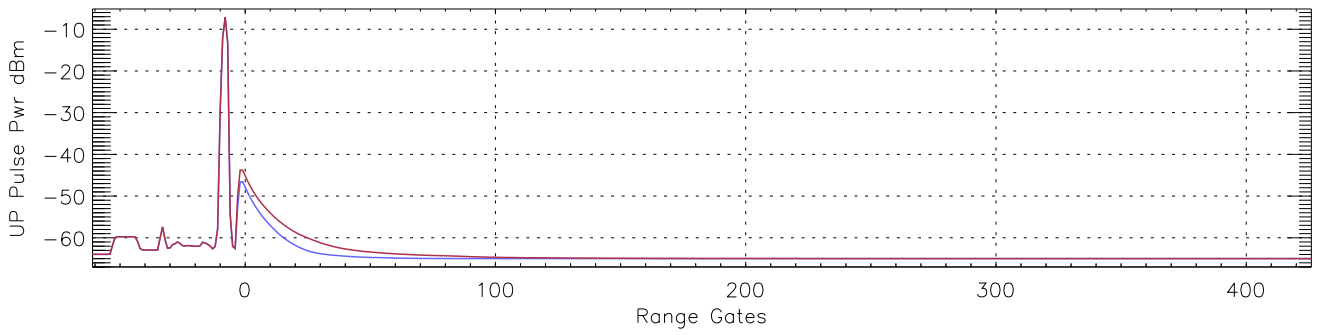
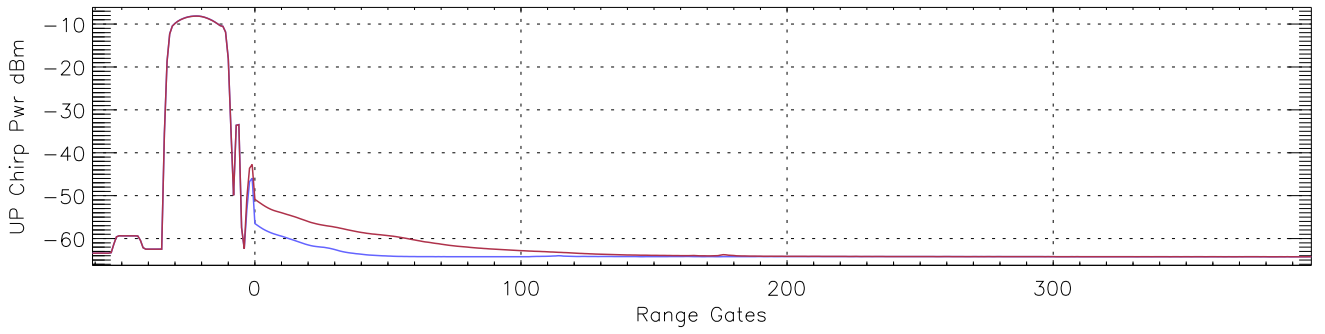




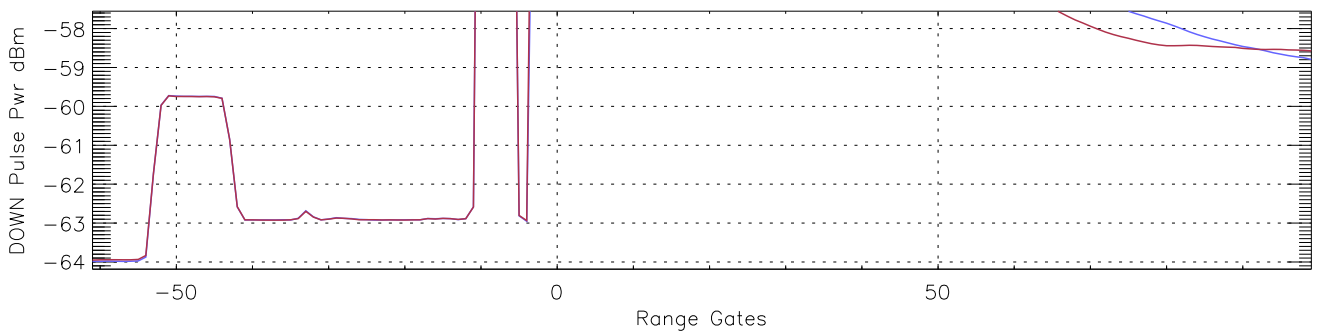
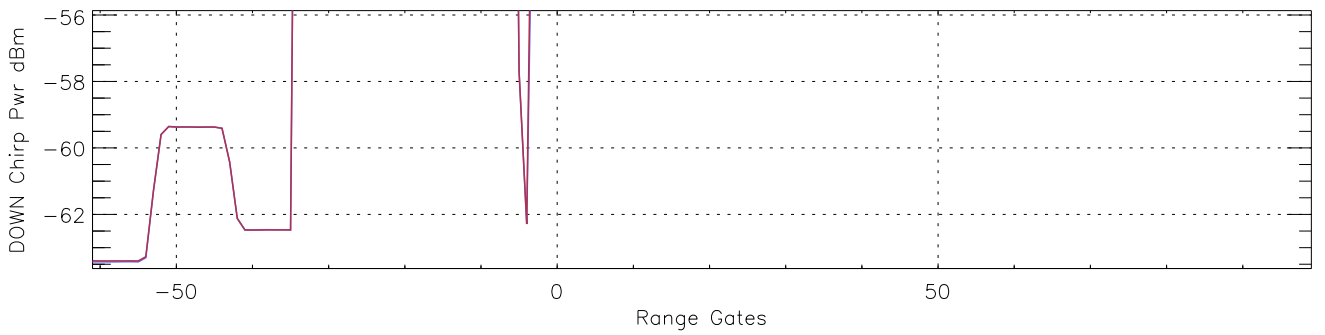
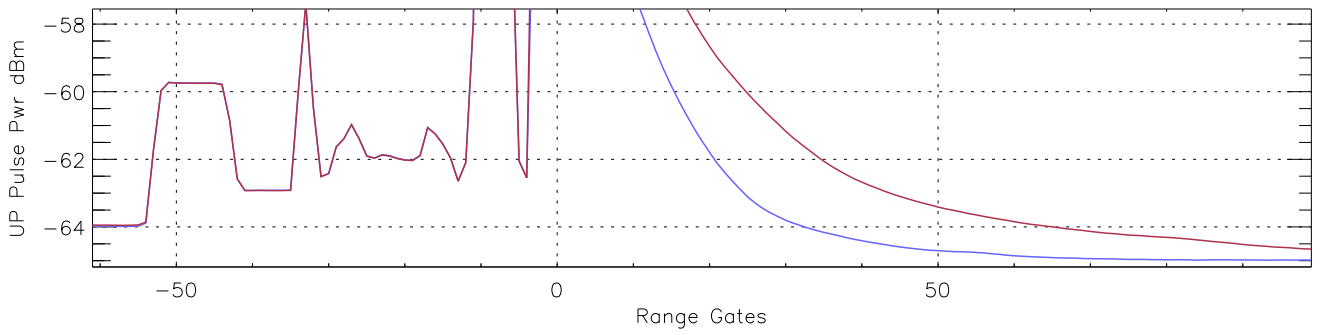
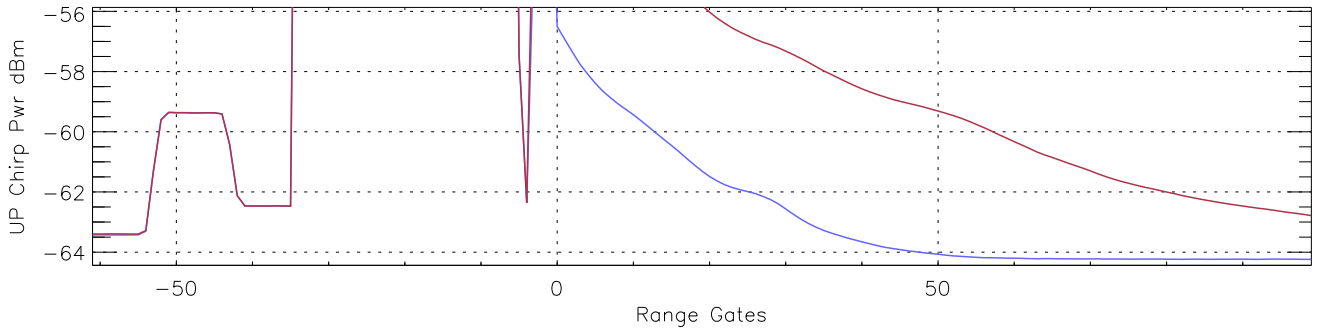
KPR SPP "Best" PPMAG noise (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RG390_0	-102.11	-74.49	-79.82	-80.08	-82.55
UP_P_RG350_0	-99.27	-75.56	-80.45	-80.74	-83.22
DOWN_C_RG341_1	-94.28	-72.59	-78.22	-78.49	-81.04
DOWN_P_RG326_0	-95.40	-73.10	-78.72	-79.04	-81.47

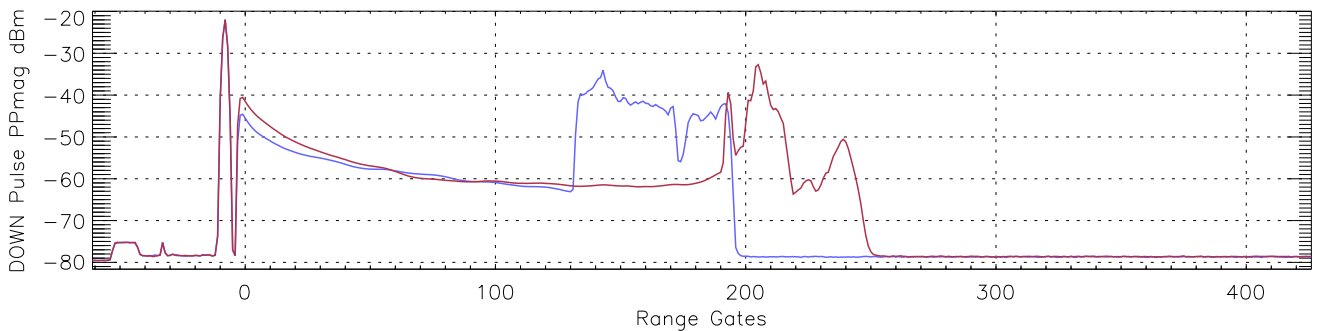
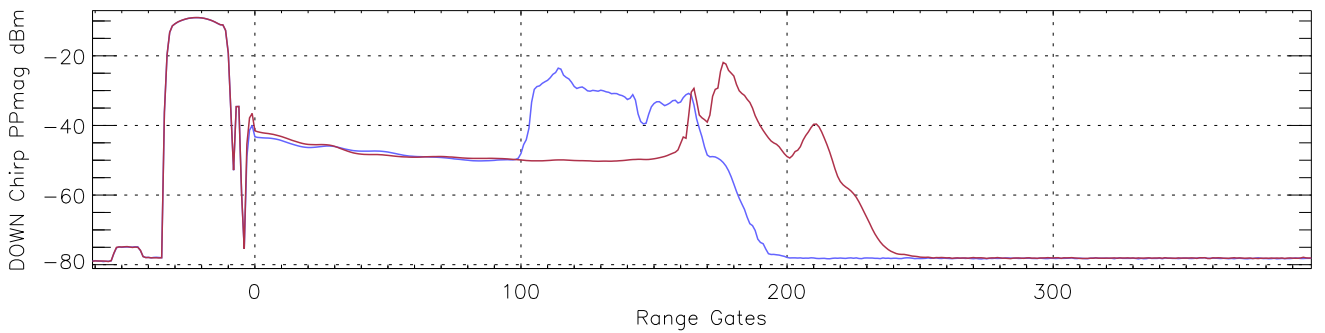
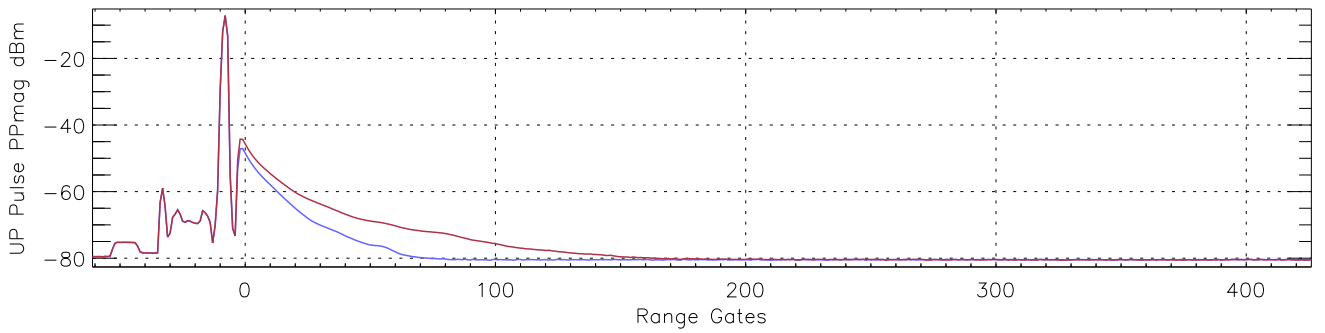
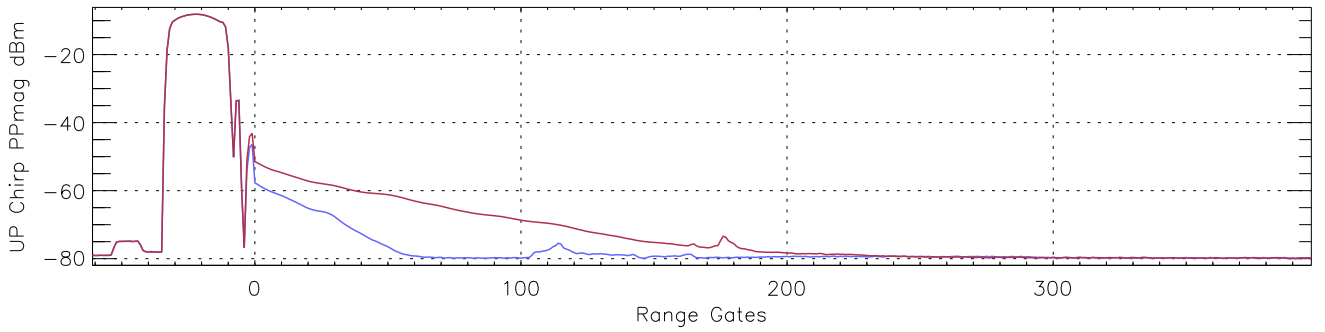




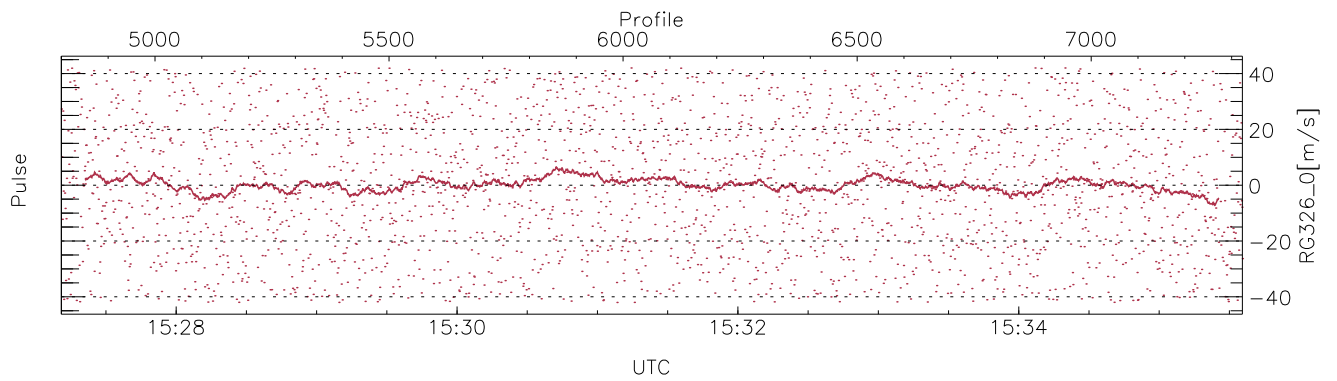
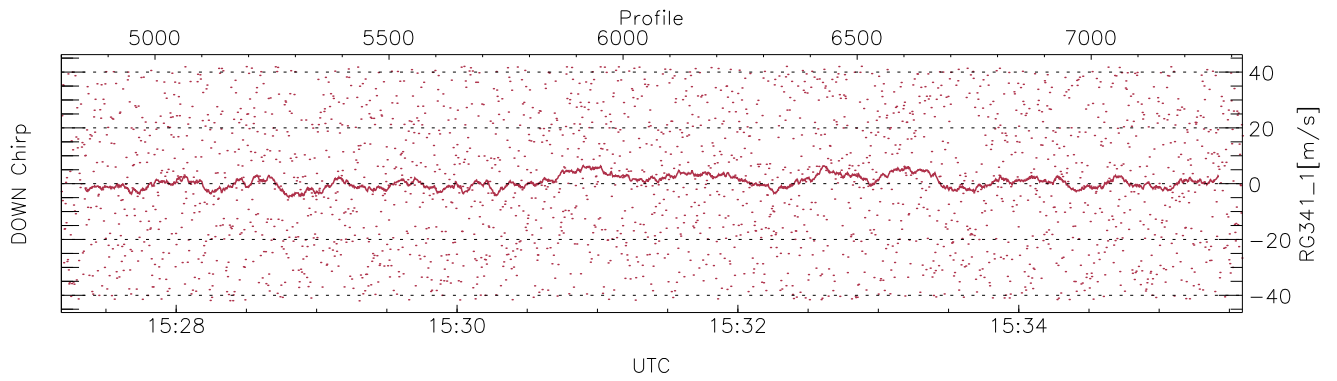
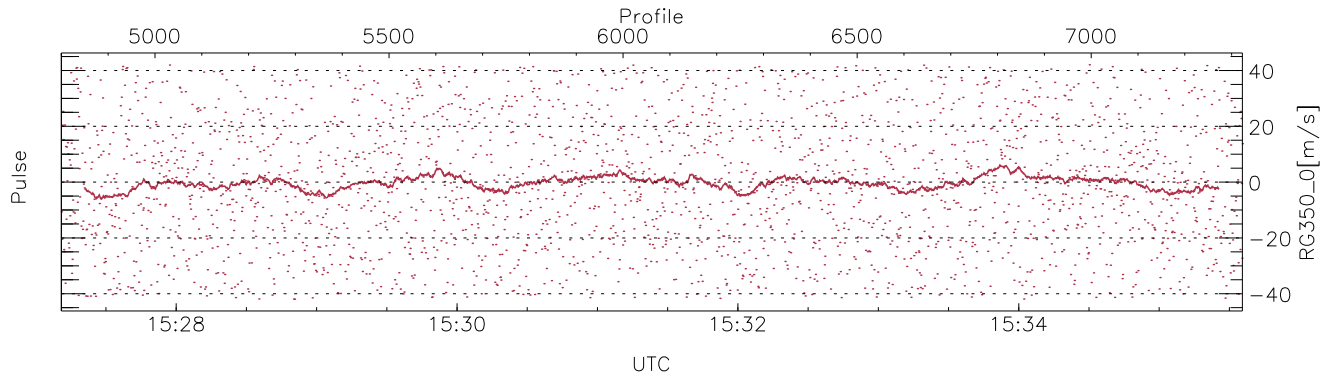
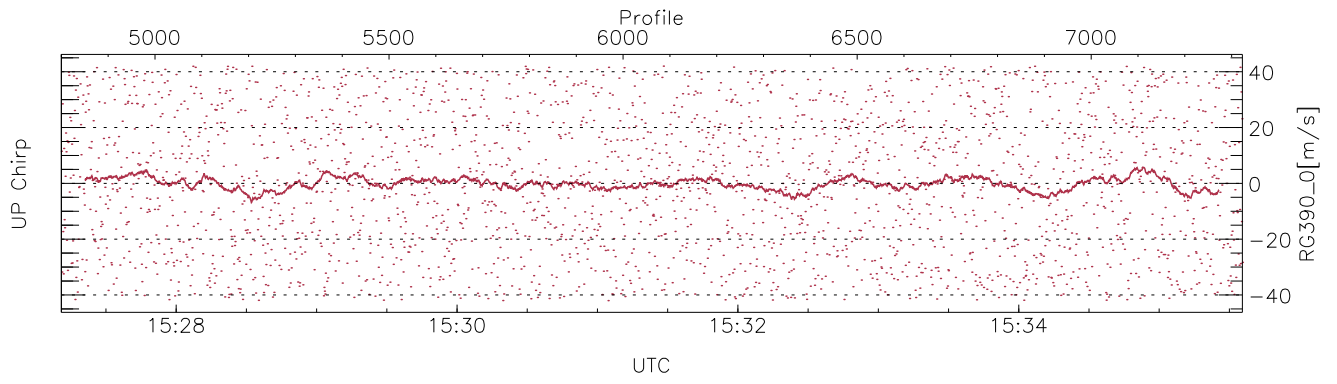
KPR SPP Averaged Received power for all recorded gates  
blue: 152711-153123, 1263 profiles averaged  
red: 153123-153536, 1262 profiles averaged



KPR SPP Averaged Power for neg. gates & up to 100 gates  
blue: 152711-153123, 1263 profiles averaged  
red: 153123-153536, 1262 profiles averaged

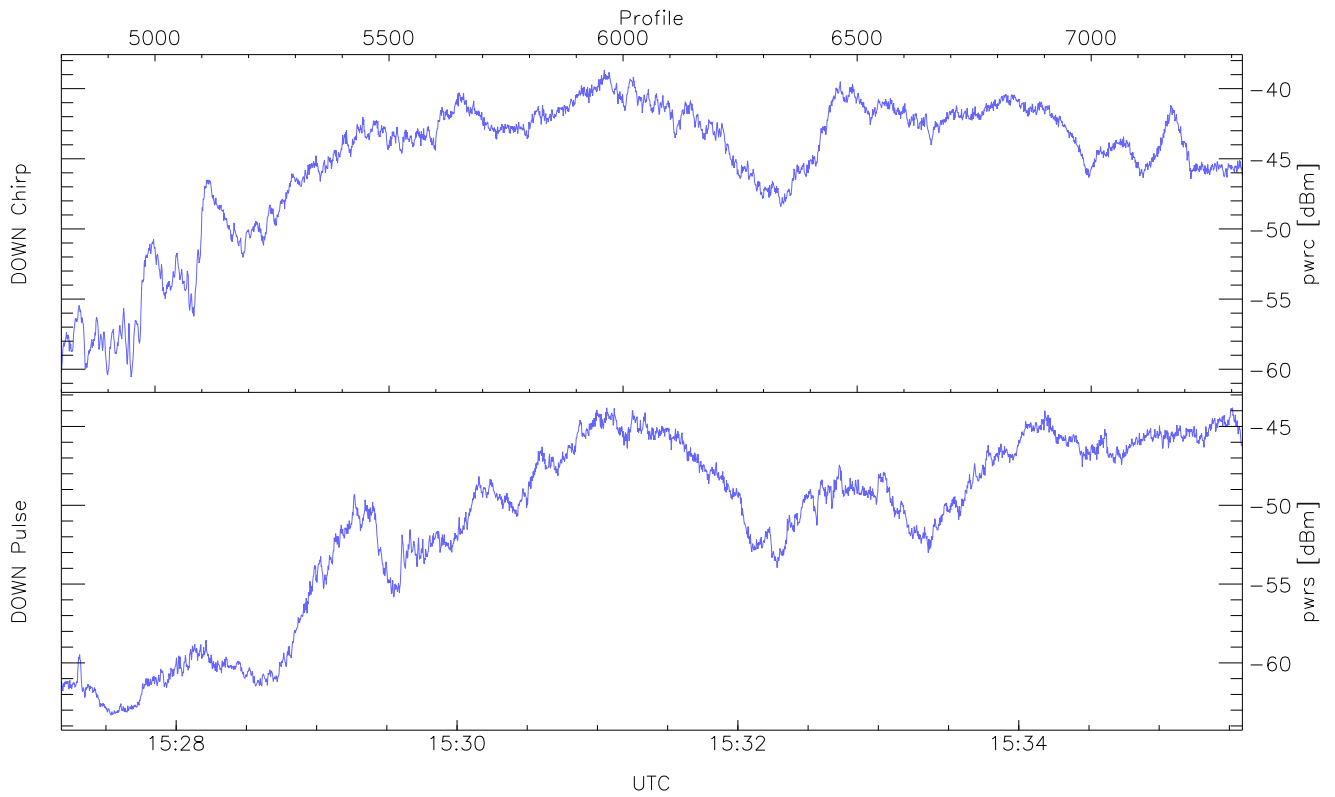
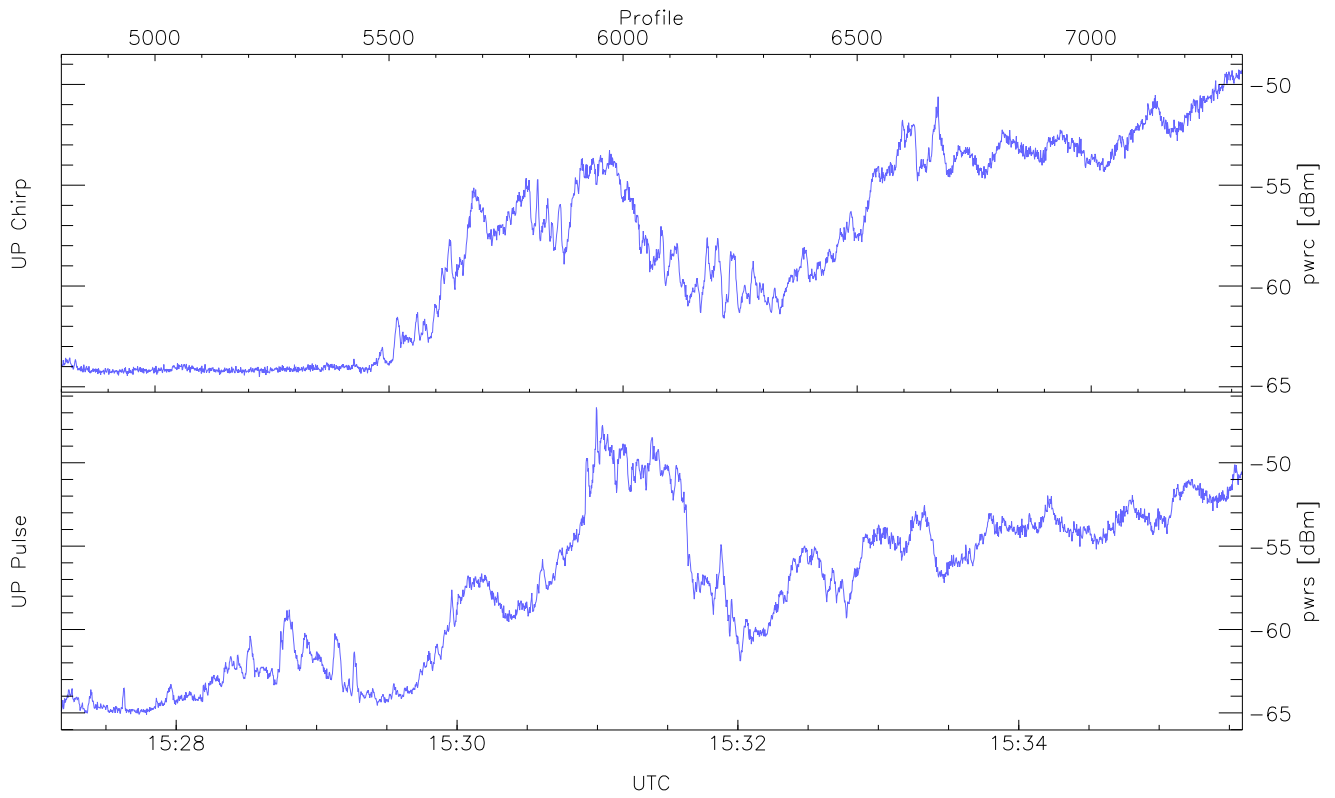


KPR SPP Averaged PP magnitude for all recorded gates  
blue: 152711-153123, 1263 profiles averaged  
red: 153123-153536, 1262 profiles averaged



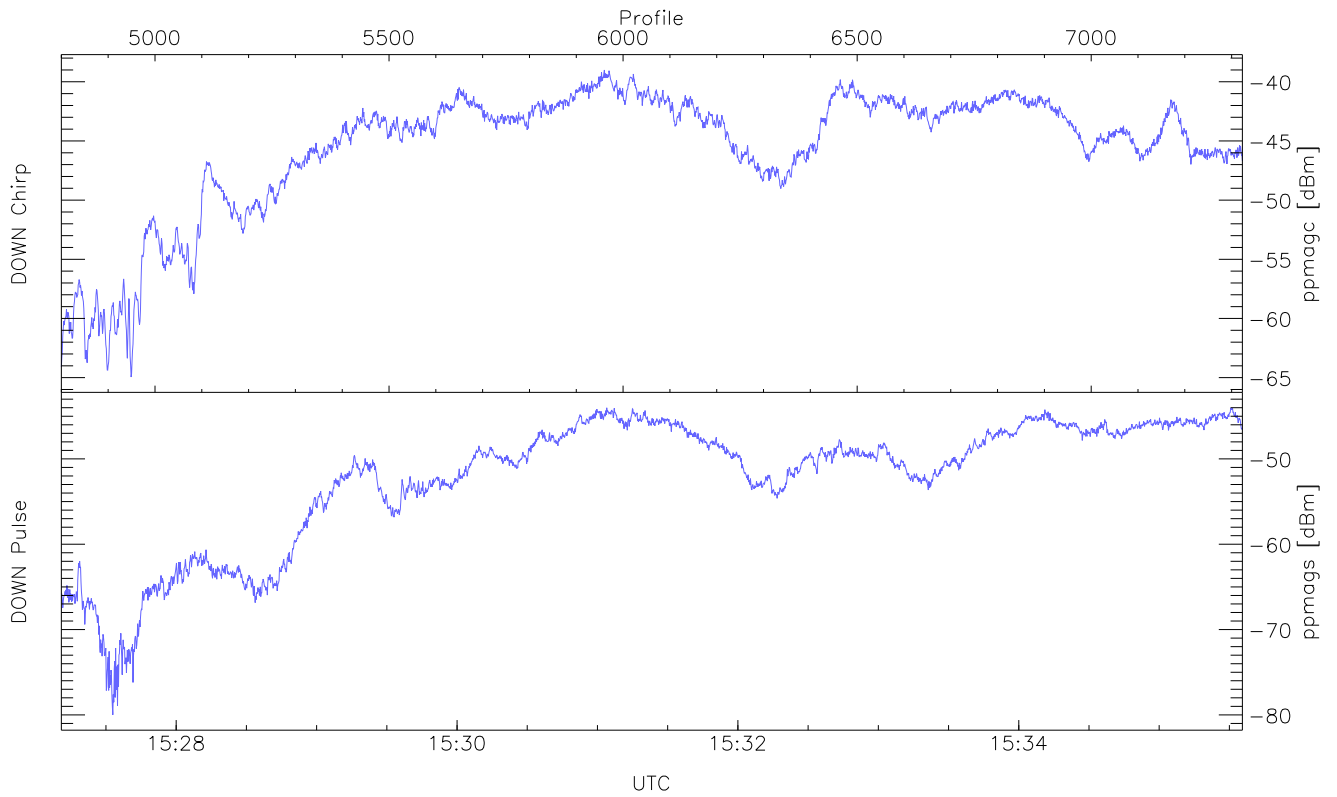
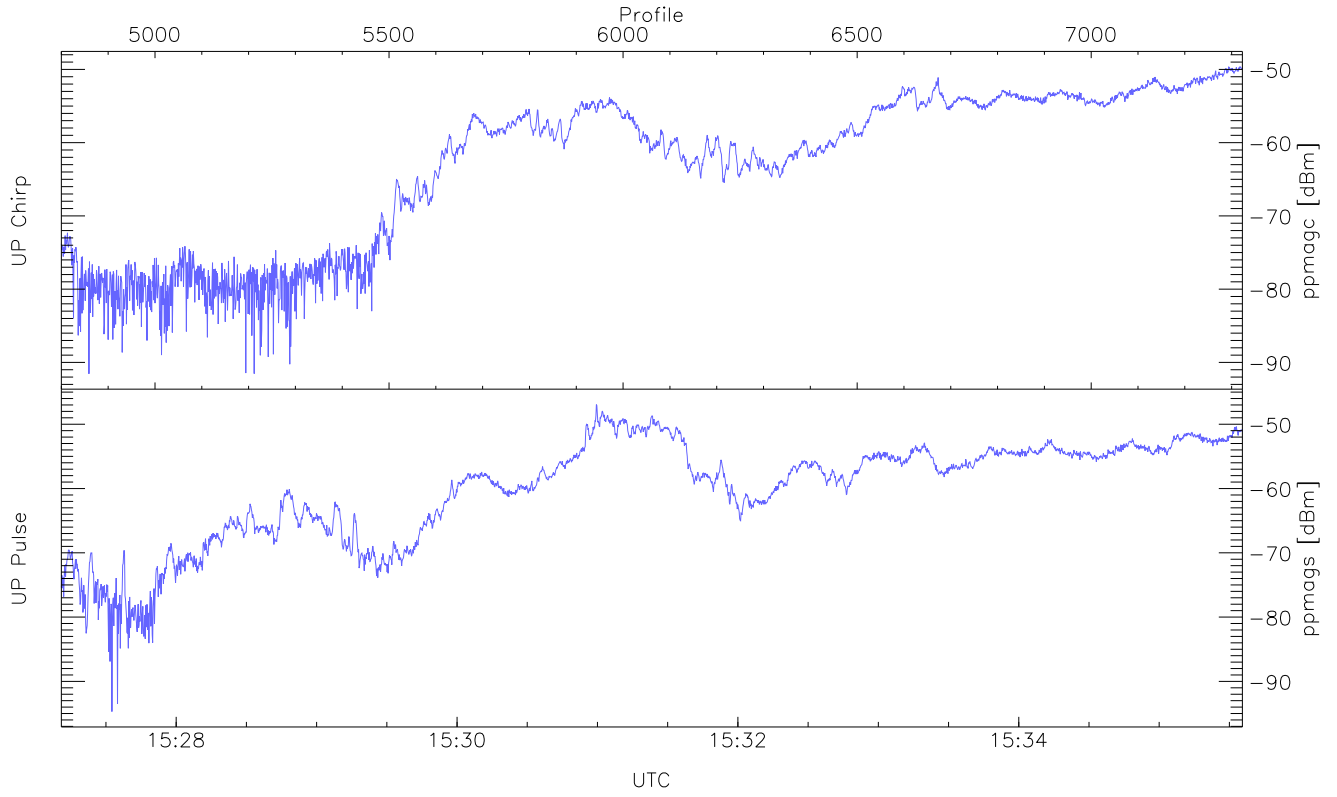
KPR SPP "Best" PPVEL noise (m/s):

	Min	Max	Mean	Median	StDev
UP_C_RG390_0	-42.03	42.01	-0.20	-0.14	24.30
UP_P_RG350_0	-41.98	42.06	-0.47	-1.33	22.49
DOWN_C_RG341_1	-41.99	42.06	0.50	0.40	24.24
DOWN_P_RG326_0	-42.01	42.02	-0.01	-0.37	23.16



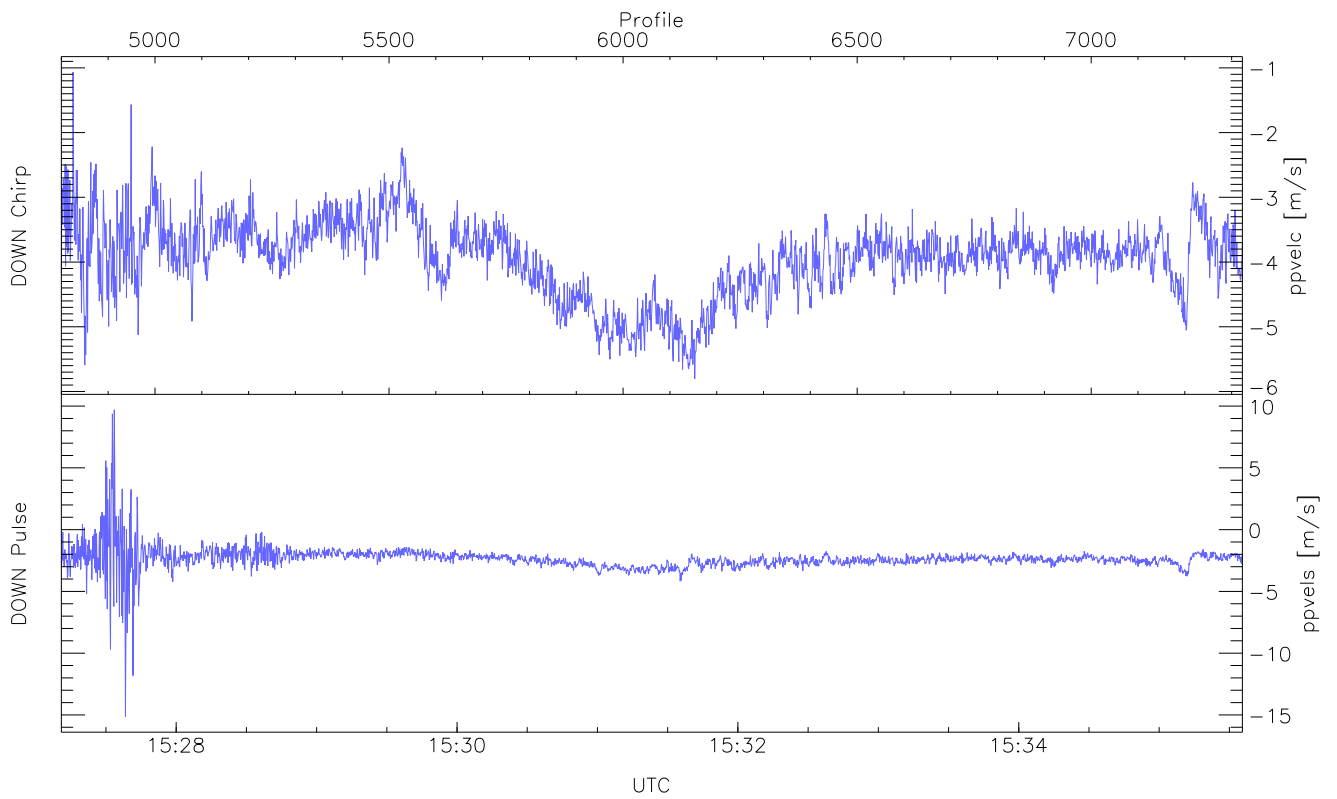
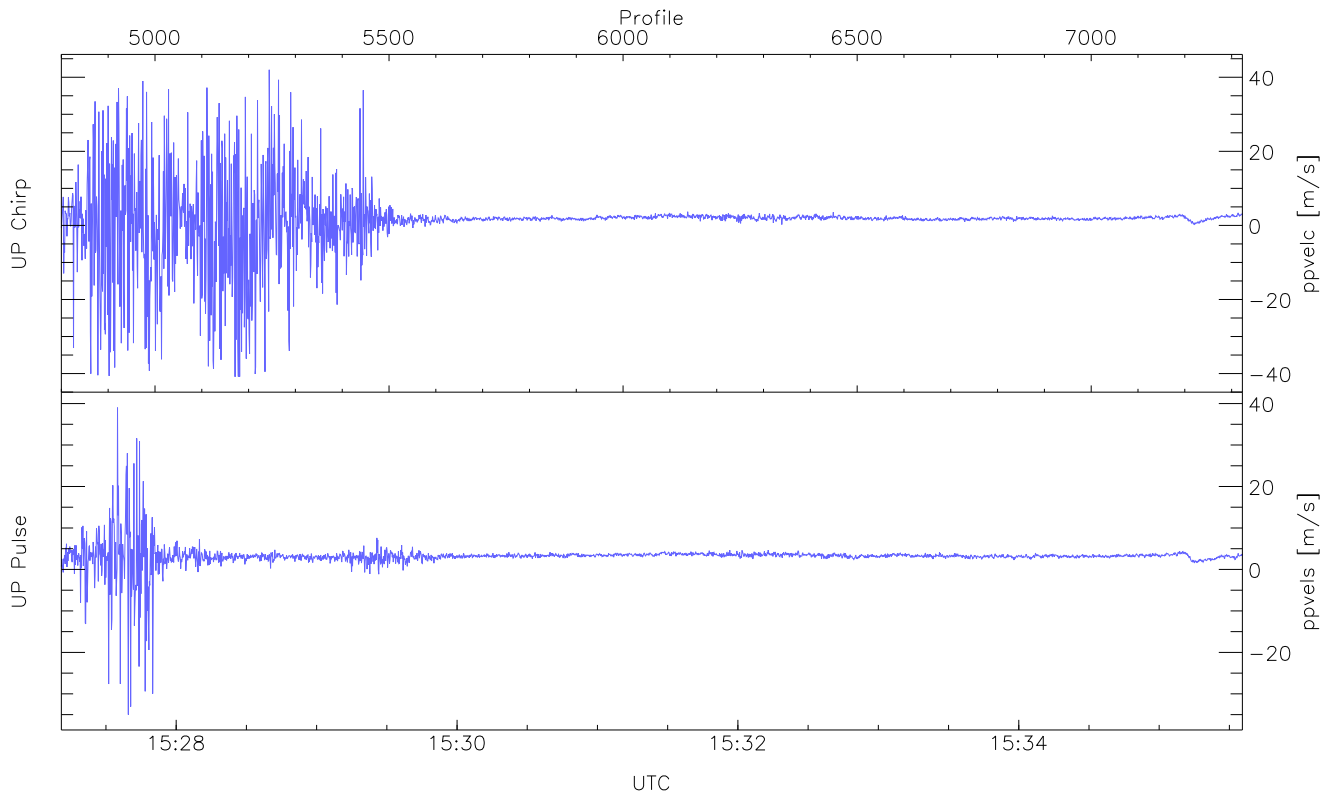
KPR SPP Received Power for Chirp Range gate 10 (686.2 m)  
 KPR SPP Received Power for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-64.51	-49.27	-55.90
UP Pulse(dBm)	-65.10	-46.69	-55.30
DOWN Chirp(dBm)	-60.56	-38.67	-43.40
DOWN Pulse(dBm)	-63.29	-43.81	-48.60



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

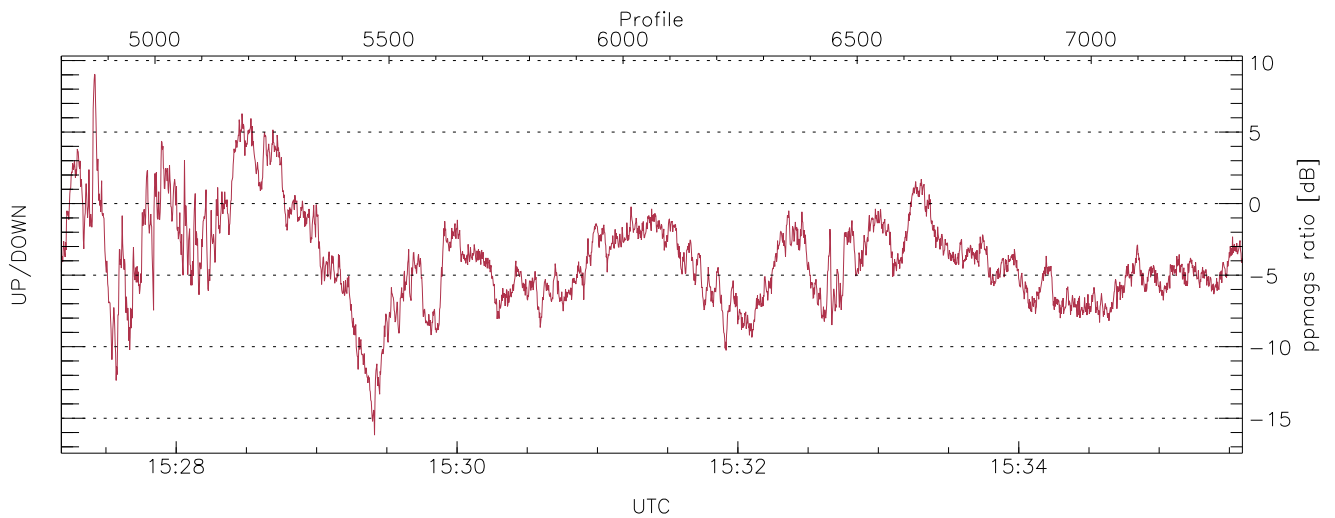
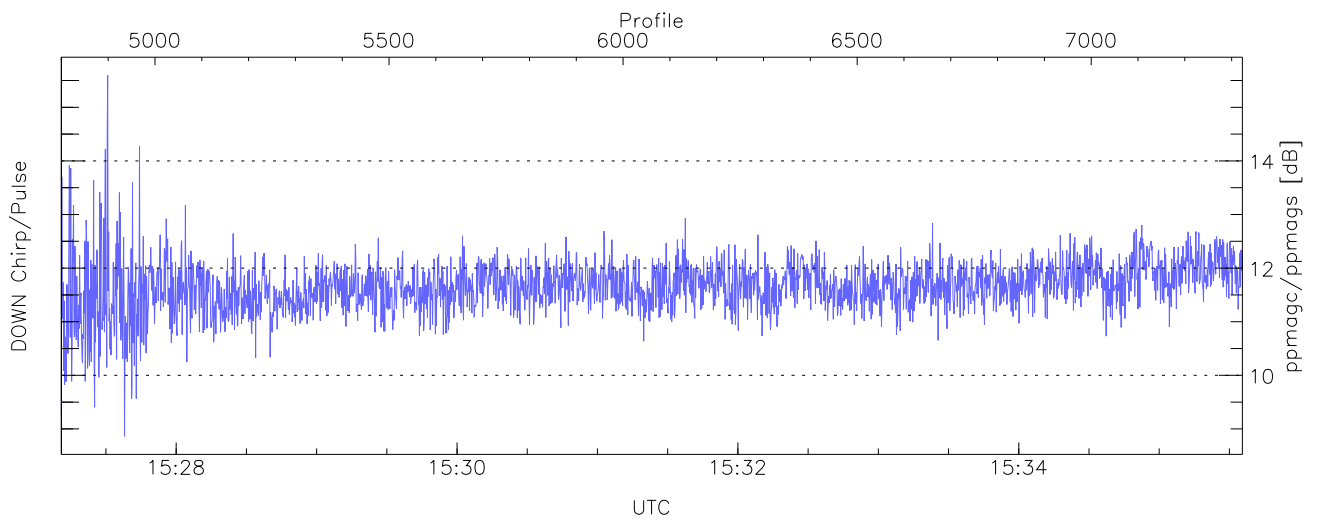
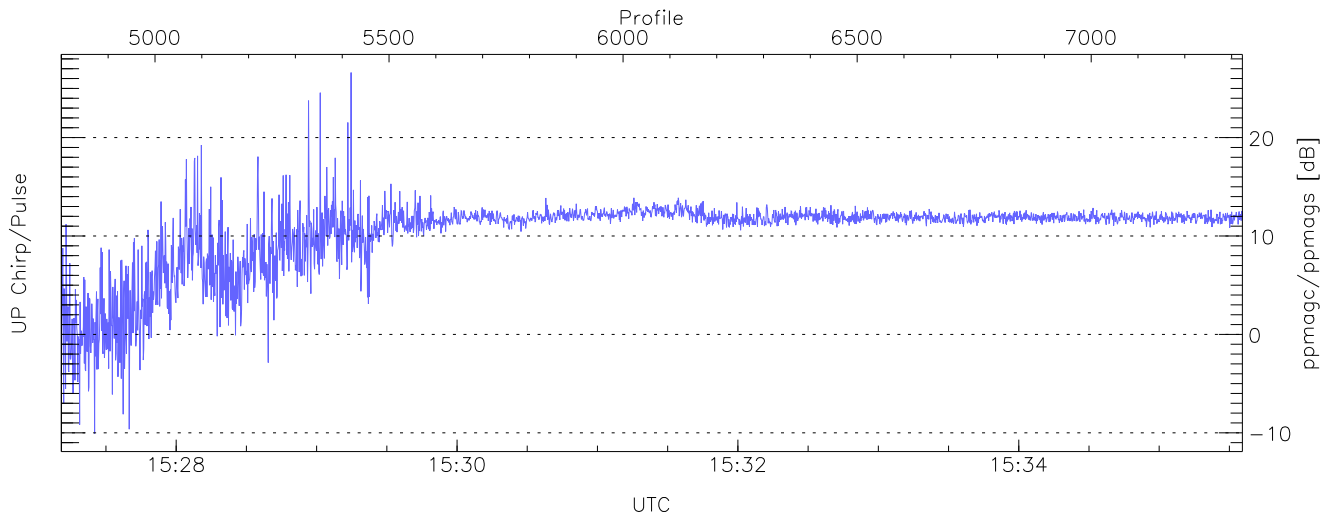
	Min	Max	Mean
UP Chirp(dBm)	-91.56	-49.64	-56.87
UP Pulse(dBm)	-94.70	-46.94	-55.95
DOWN Chirp(dBm)	-64.95	-39.00	-43.73
DOWN Pulse(dBm)	-79.99	-44.00	-48.91



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)	-40.88	42.03	1.39
UP Pulse(m/s)	-35.00	39.04	3.18
DOWN Chirp(m/s)	-5.81	-1.06	-3.95
DOWN Pulse(m/s)	-15.15	9.71	-2.37





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

	Min	Max	Mean
UP Chirp/Pulse(dBm)	-10.07	26.62	11.43
DOWN Chirp/Pulse(dBm)	8.86	15.60	11.69
UP/DOWN Ratio at Range 135.8 m			
	Min	Max	Mean
UP/DOWN(dB)	-16.18	9.05	-2.53