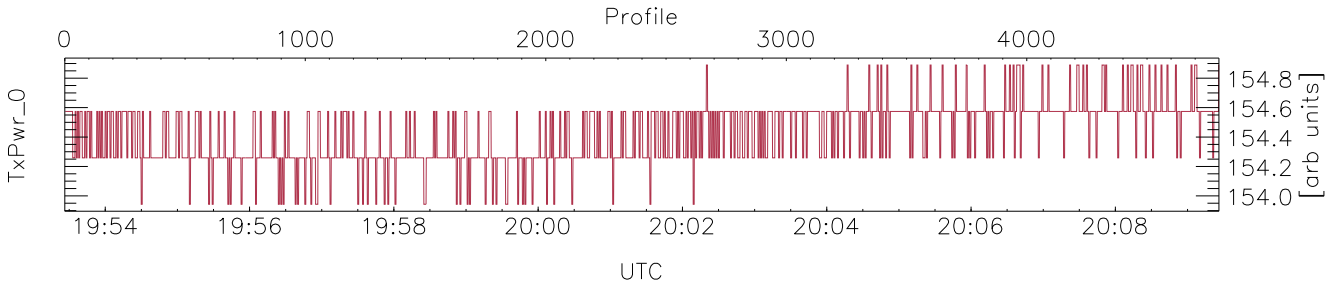
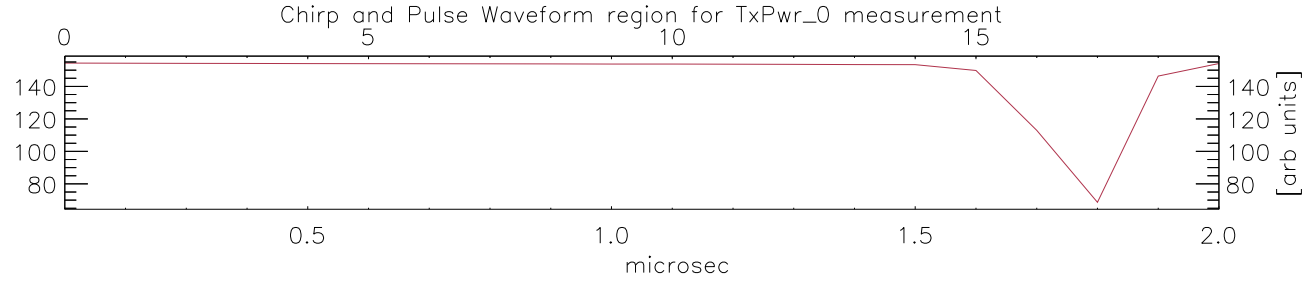
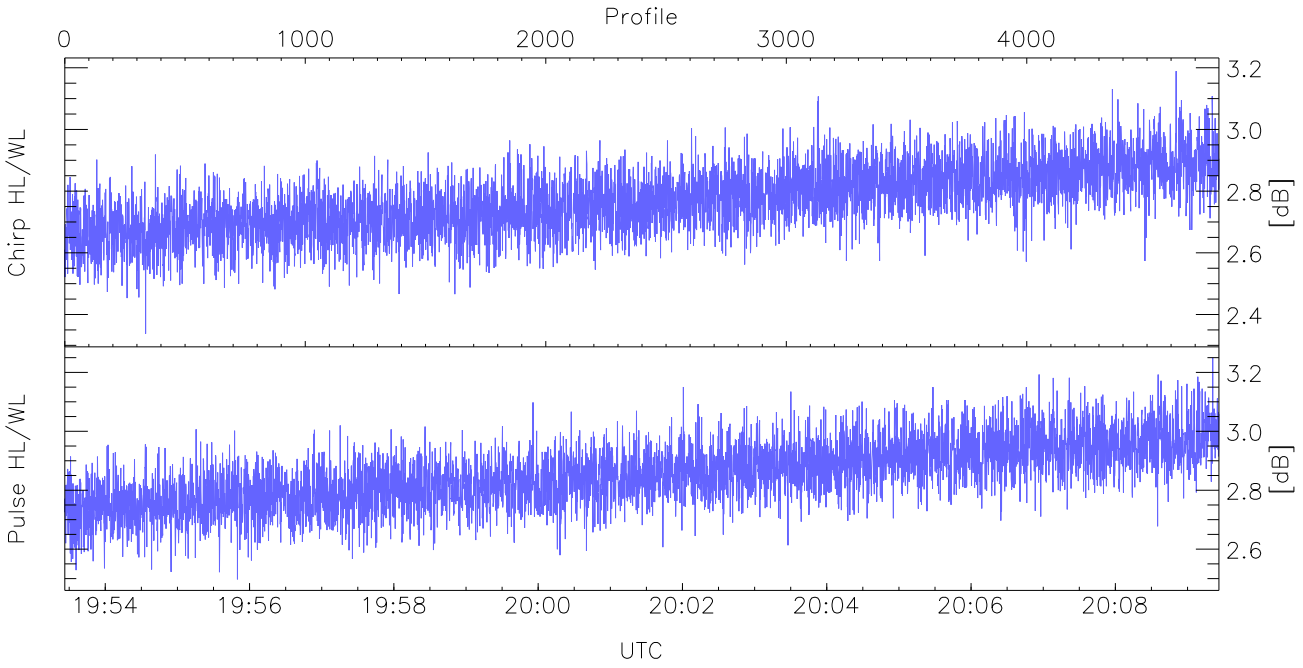
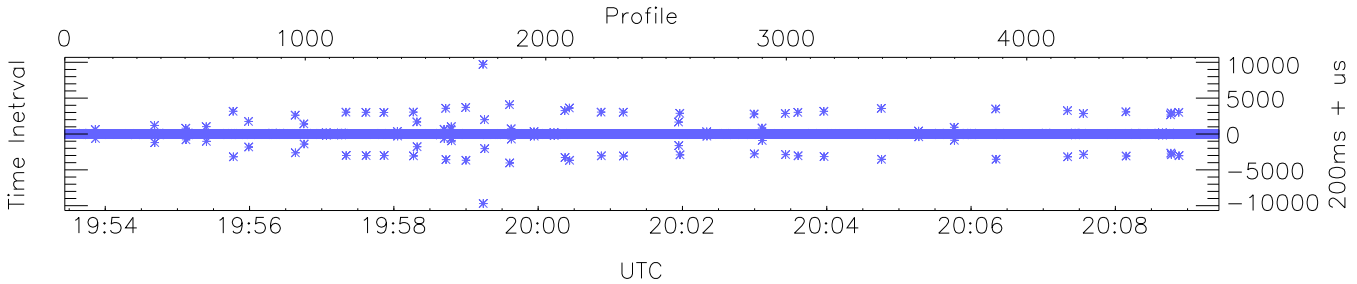


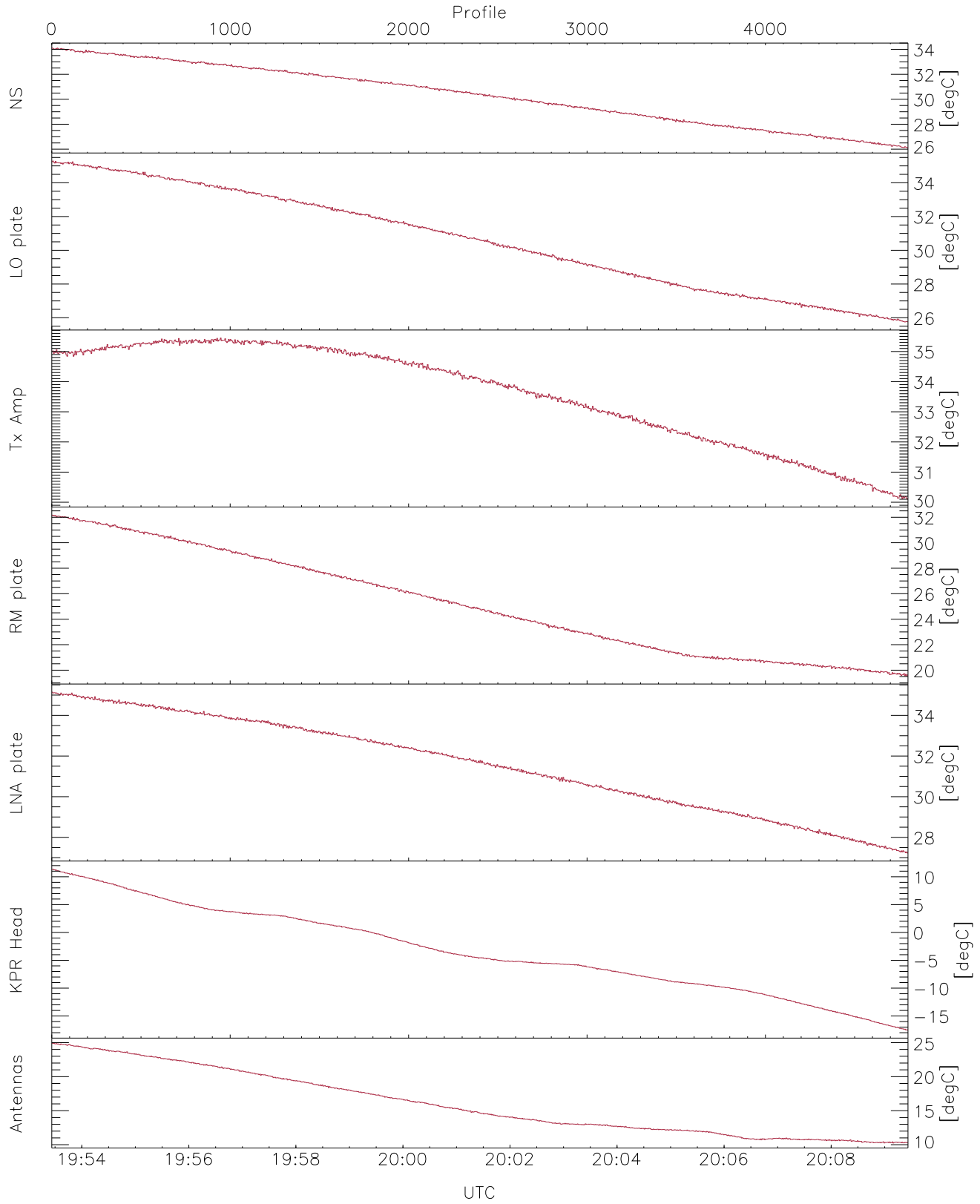






KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF

UTC: 19:53:26-20:33:30, TimeCor: 0.00s, Dur: 959.80s
TimeInt(min,max,mn,std): 190.3,209.7,200.0,0.4 ms; PPS: 5.0
NumRec(r/t): 4800/12021, 0-4799/19:53:26-20:09:26
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

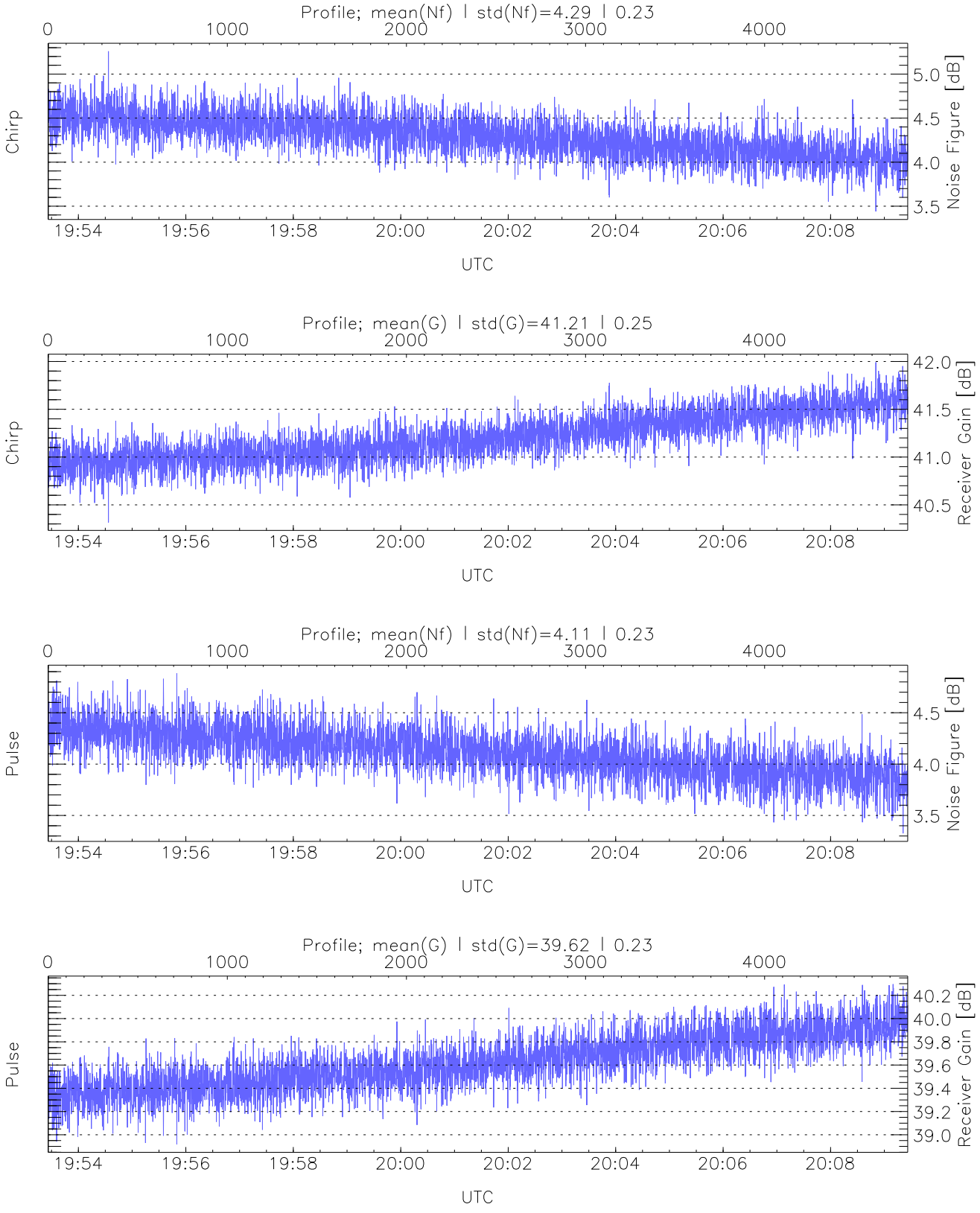


KPR SPP Temperatures, Power Supplies, PLO lock:

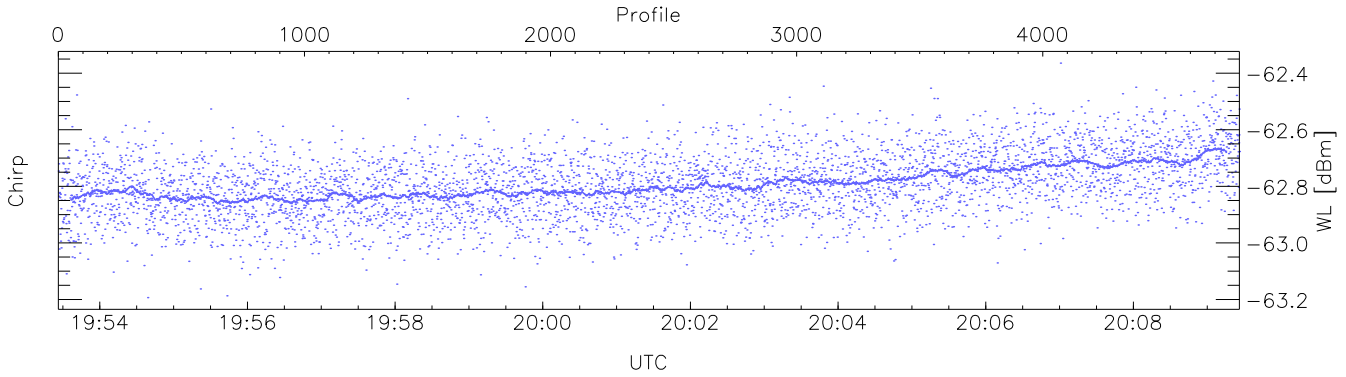
temperature:	NS,	LO,	Tx,	RM,	LNA,	Head,	Ant
mintempC:	26.1,	25.8,	30.1,	19.5,	27.2,	−17.5,	10.2
maxtempC:	34.1,	35.3,	35.4,	32.2,	35.1,	11.4,	24.9
meantempC:	30.3,	30.5,	33.6,	25.1,	31.5,	−3.3,	16.0

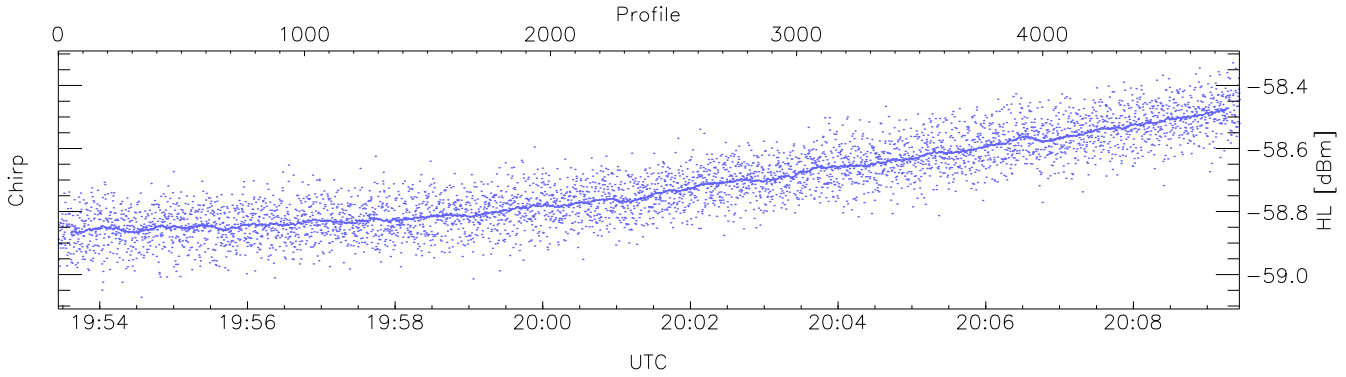
PwrSply:	28,	12,	8,	5 VDC
minVDC:	25.96,	11.69,	7.87,	5.22
maxVDC:	27.85,	11.74,	7.90,	5.24
meanVDC:	27.06,	11.71,	7.88,	5.23

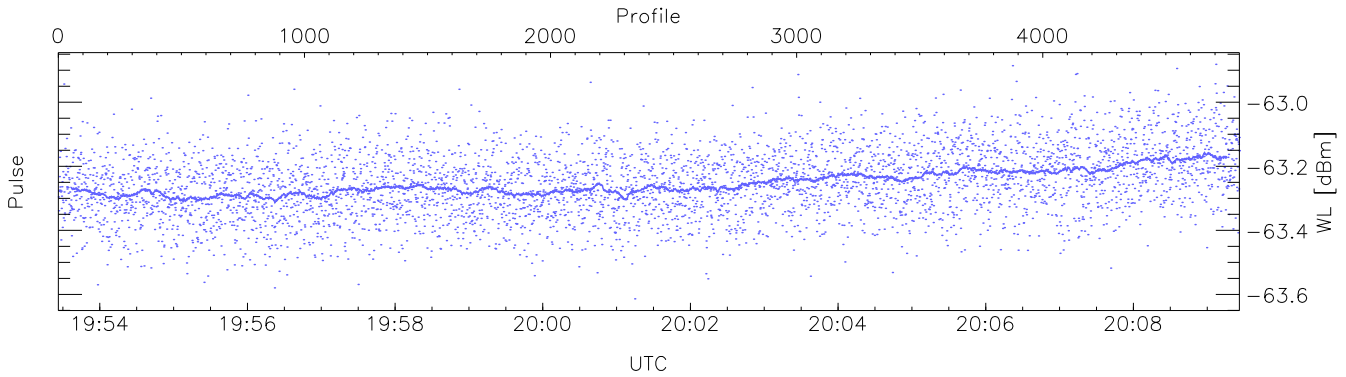
PLO(3.84,15.84 GHz) unlocked: None

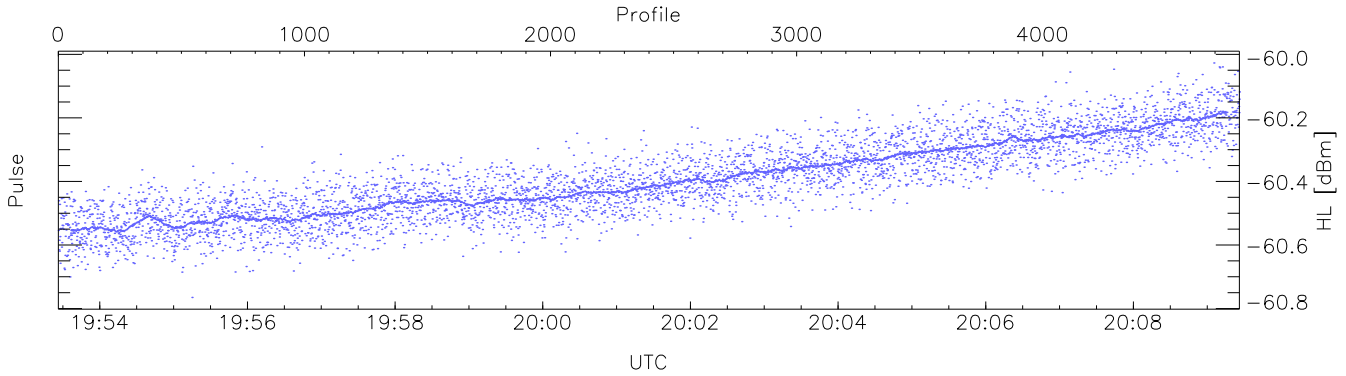


KPR SPP Receiver Gain and Noise Figure



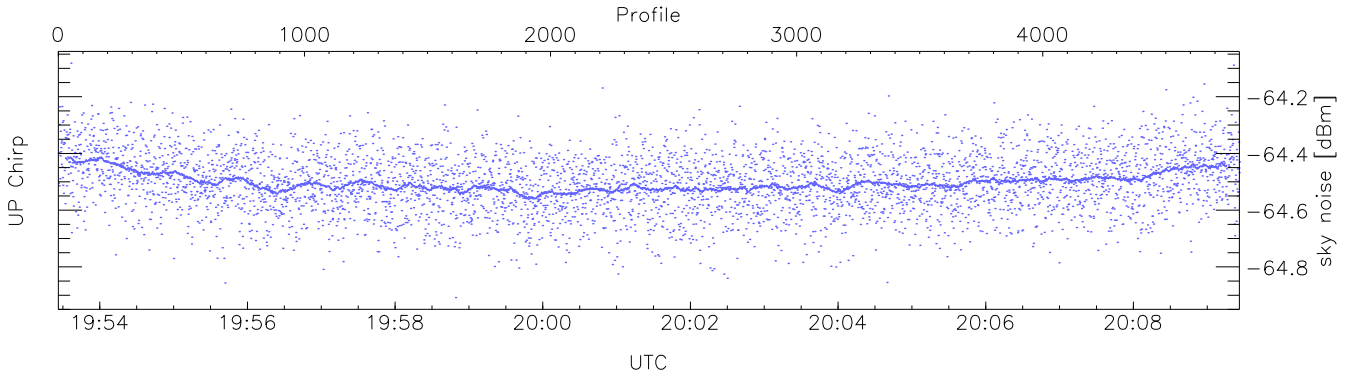


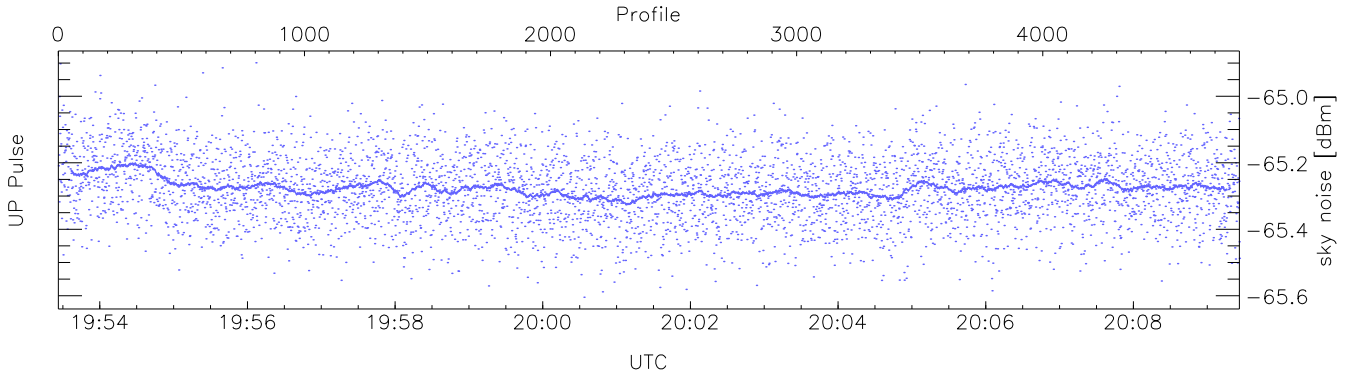


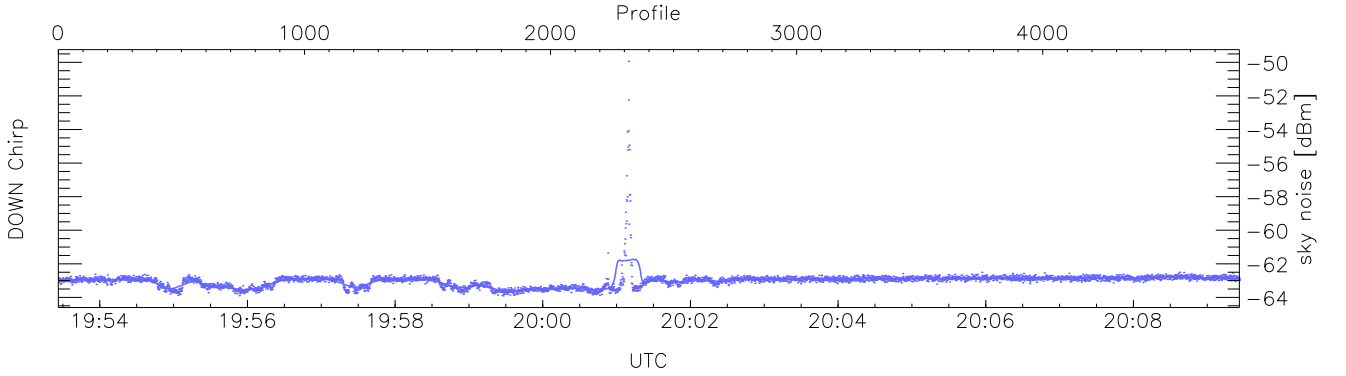


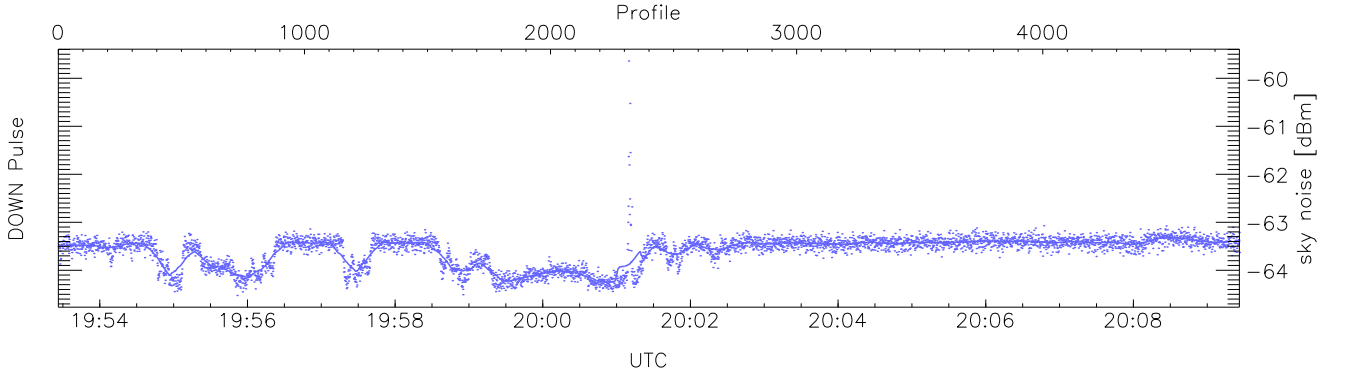
KPR SPP Receiver Noise Source Warm and Hot Measurements

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-63.19	-62.36	-62.79	-62.79	-78.78
Chirp(HL [dBm])	-59.07	-58.33	-58.72	-58.74	-73.78
Pulse(WL [dBm])	-63.61	-62.88	-63.25	-63.25	-79.49
Pulse(HL [dBm])	-60.77	-60.03	-60.39	-60.41	-75.83



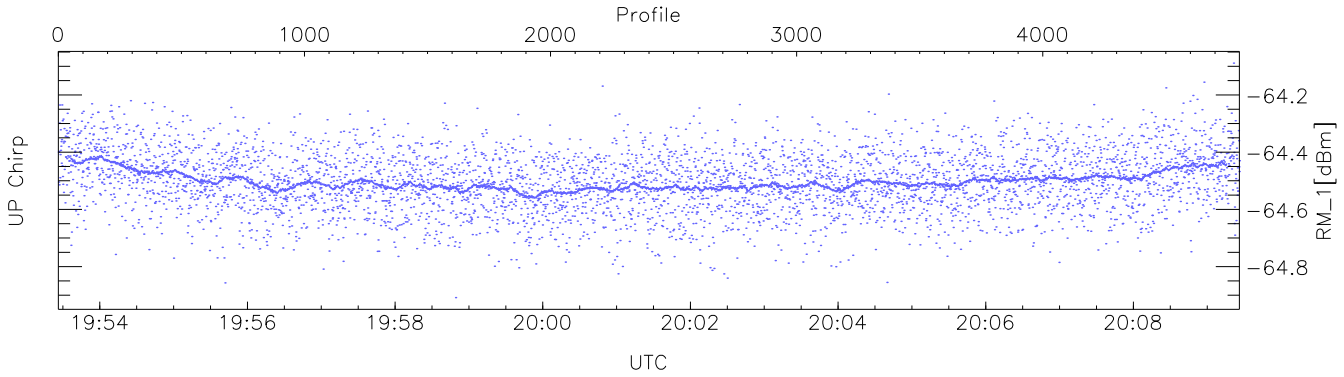


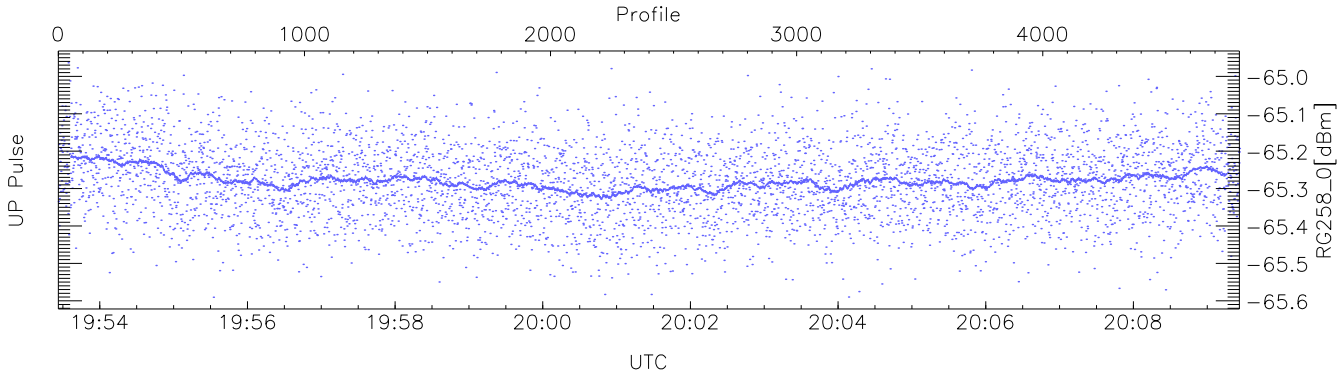


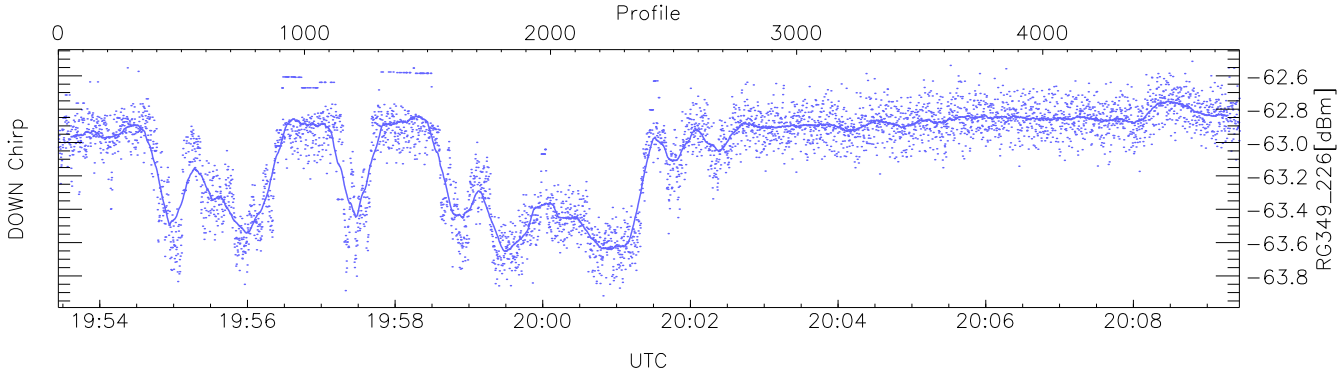


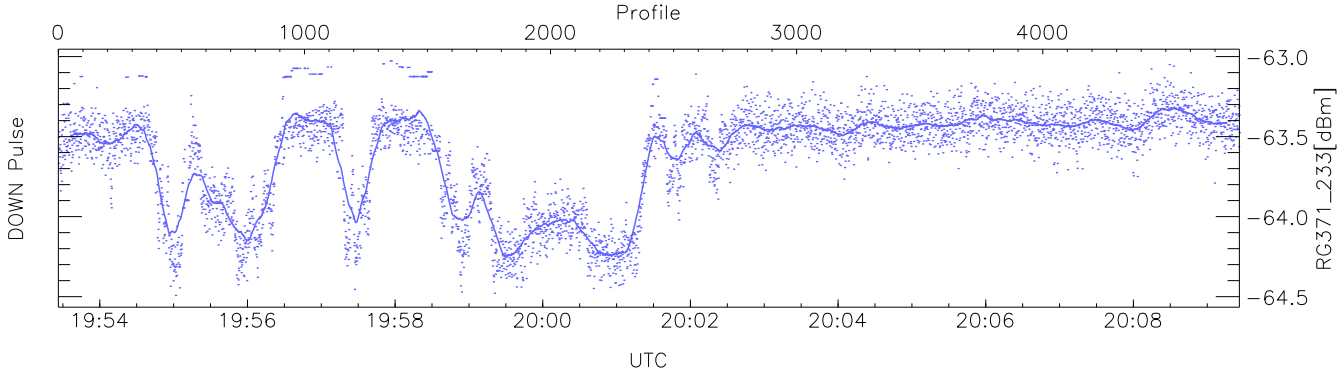
KPR SPP Last range gate power measurements: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-64.91	-64.08	-64.50	-64.50	-80.76
UP Pulse(dBm)	-65.60	-64.90	-65.28	-65.28	-81.63
DOWN Chirp(dBm)	-63.91	-49.94	-62.96	-62.95	-67.02
DOWN Pulse(dBm)	-64.52	-59.64	-63.60	-63.49	-74.84



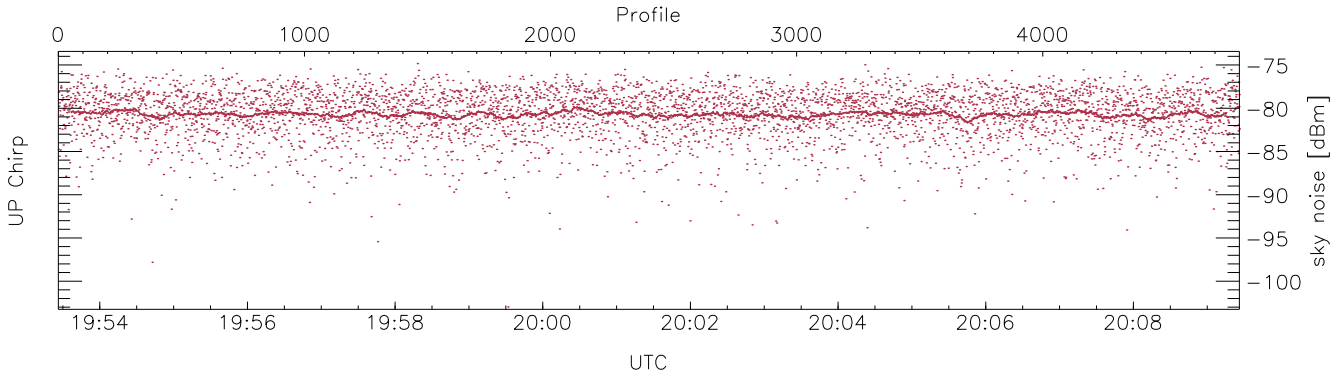


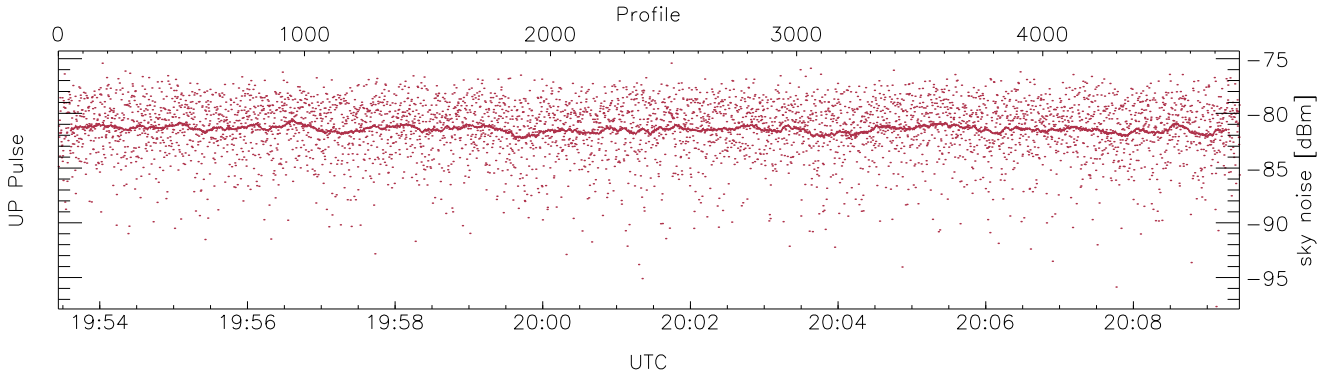


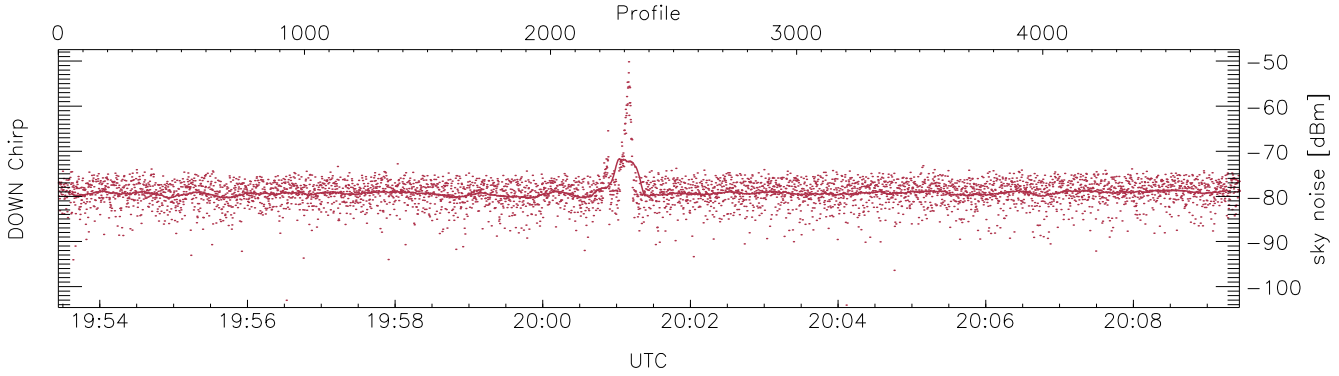


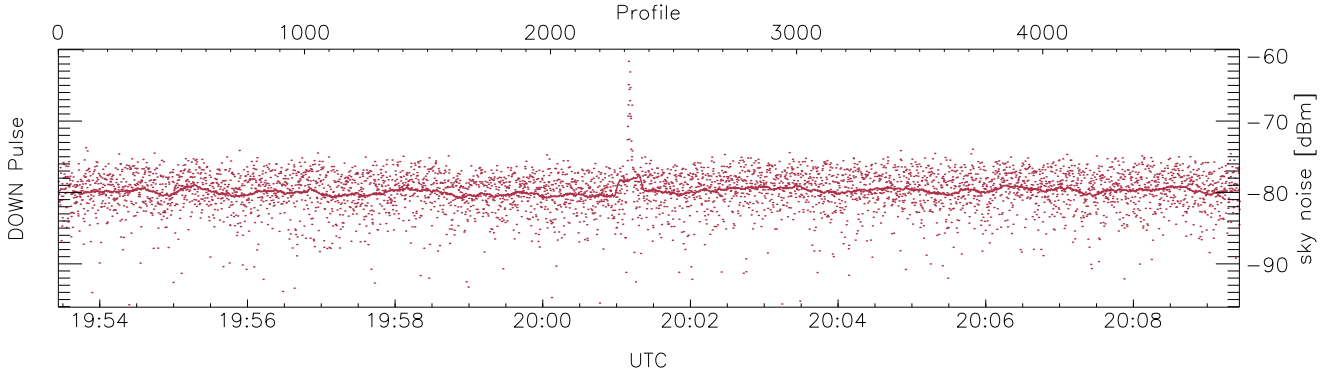
KPR SPP "Best" noise power measurements (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RM_1	-64.91	-64.09	-64.50	-64.50	-80.76
UP_P_RG258_0	-65.59	-64.96	-65.28	-65.28	-81.71
DOWN_C_RG349_226	-63.92	-62.51	-63.05	-62.95	-74.87
DOWN_P_RG371_233	-64.49	-63.03	-63.61	-63.51	-75.13



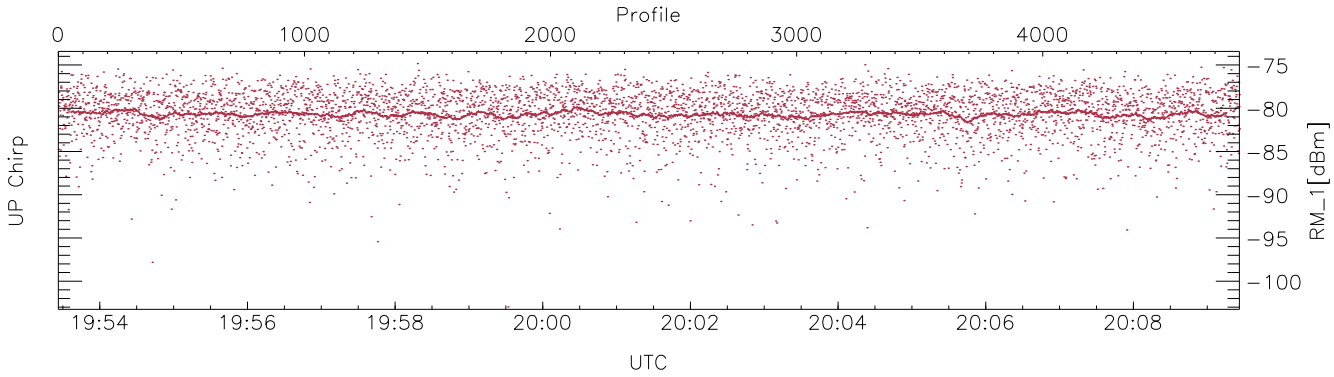


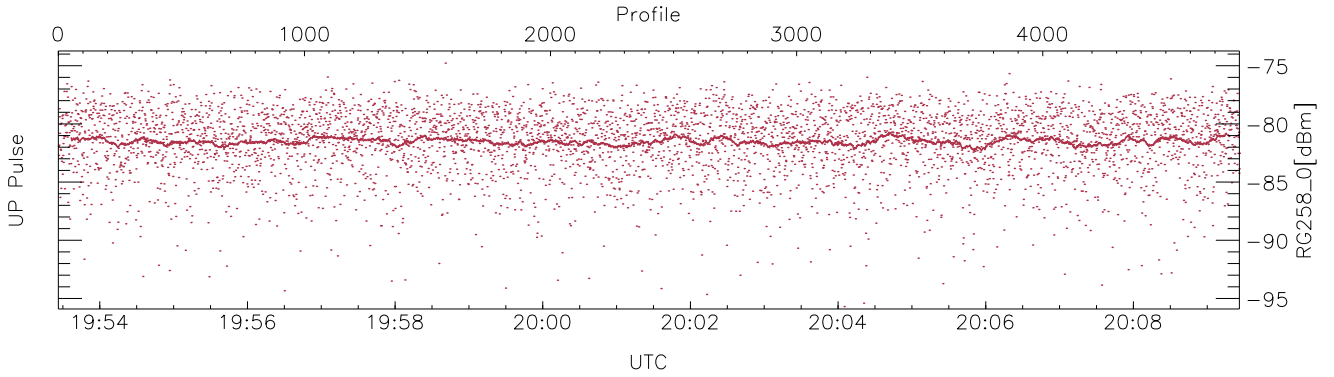


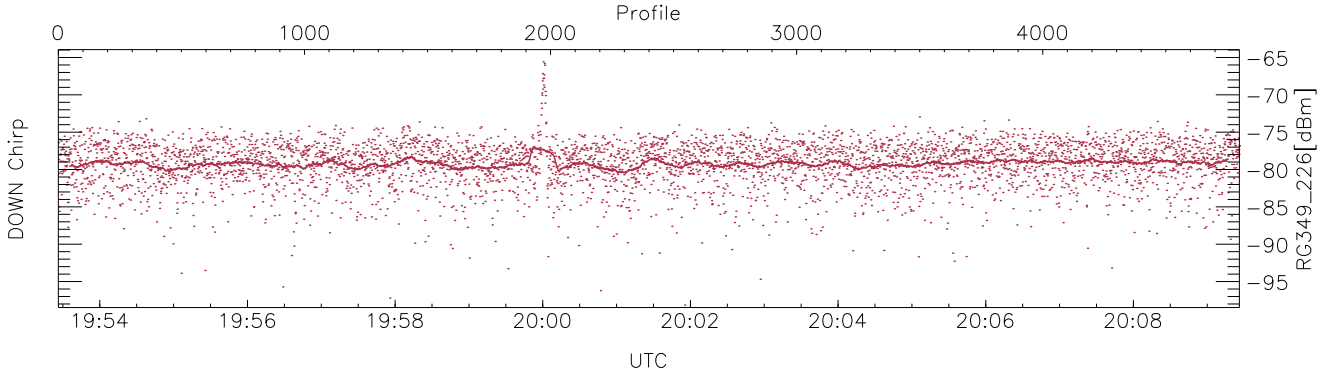


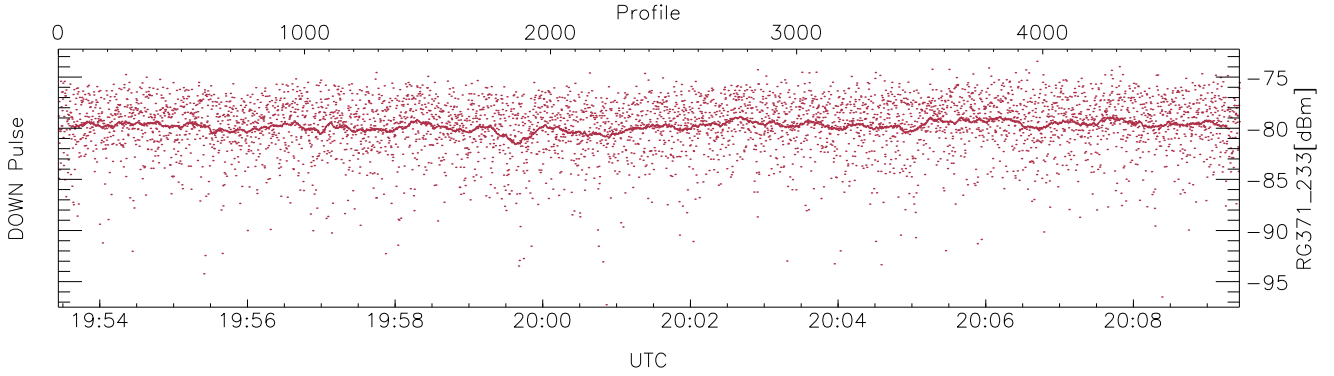
KPR SPP Last range gate PPMAG: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-102.97	-74.84	-79.99	-80.26	-82.85
UP Pulse(dBm)	-97.65	-75.41	-80.74	-80.98	-83.59
DOWN Chirp(dBm)	-104.11	-50.16	-76.18	-78.84	-67.06
DOWN Pulse(dBm)	-95.73	-61.64	-78.90	-79.41	-77.90



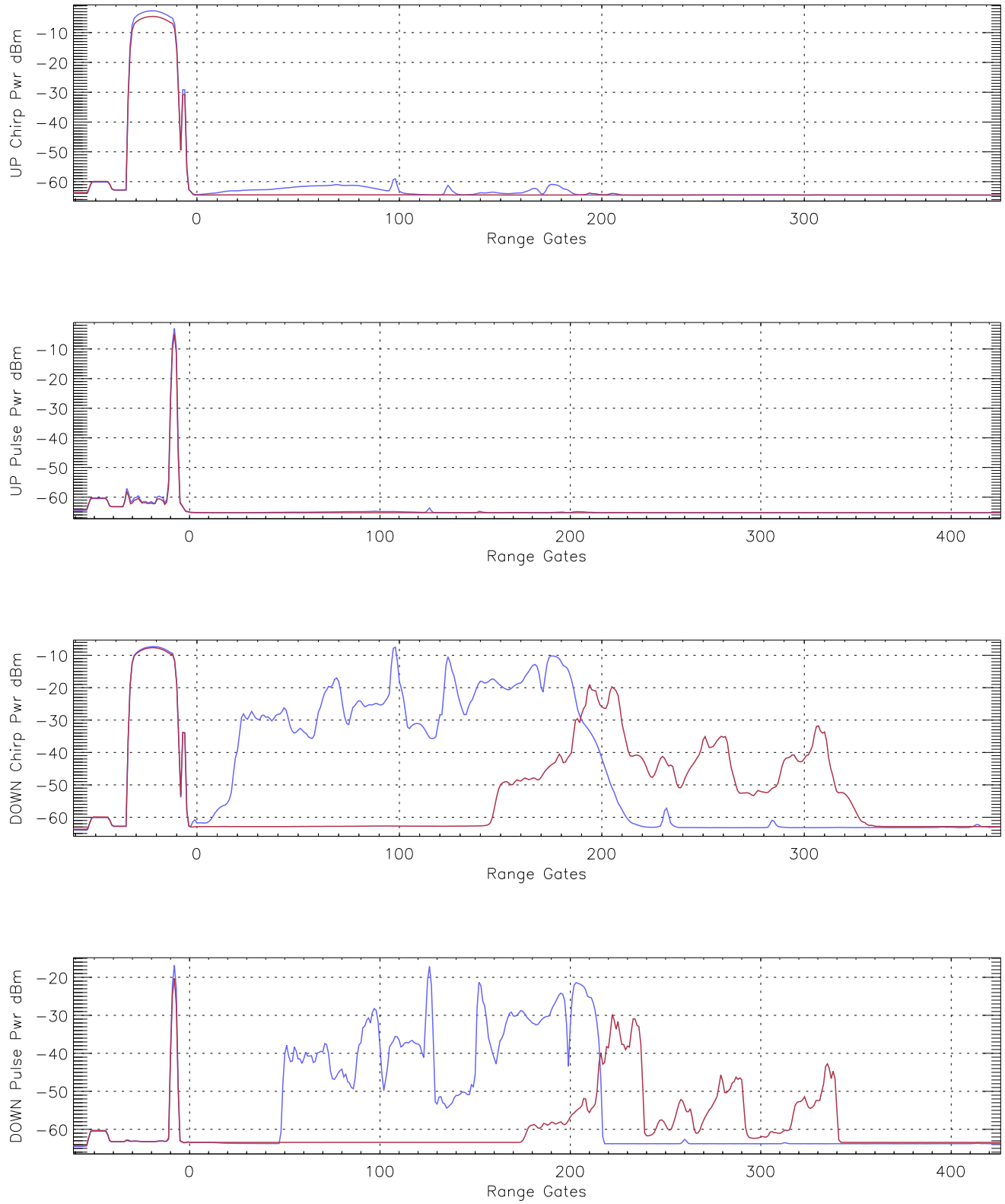




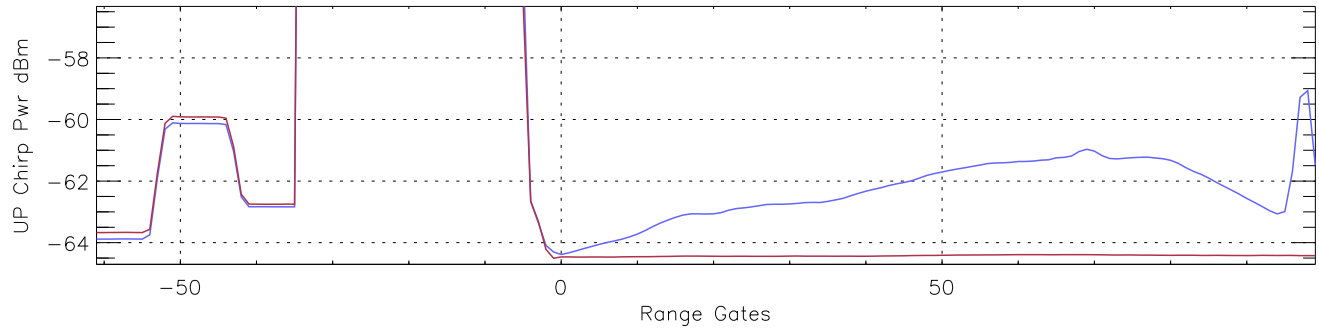


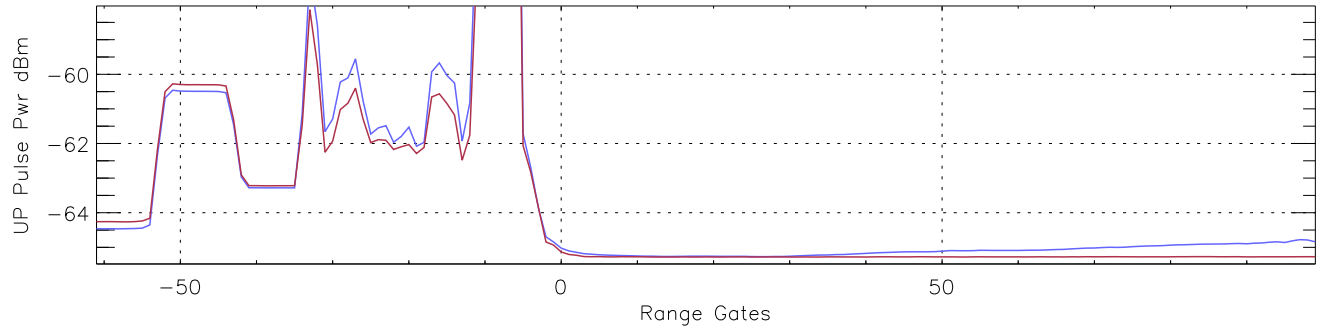
KPR SPP "Best" PPMAG noise (dBm):

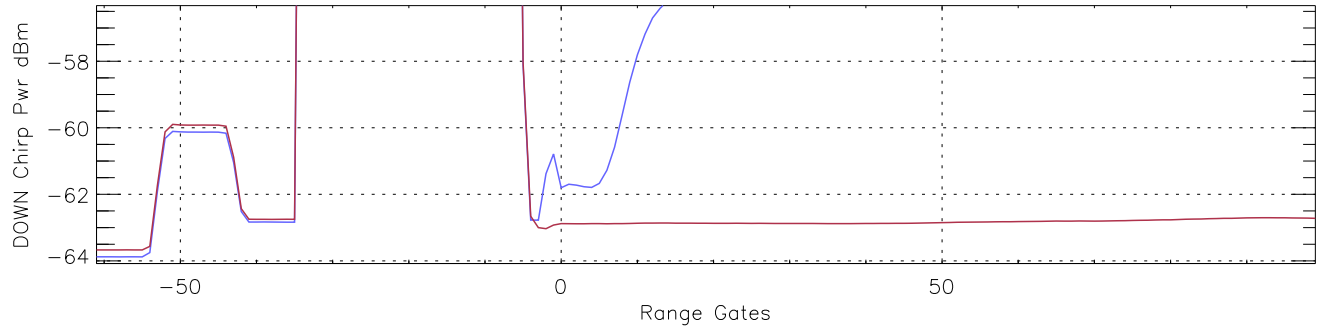
	Min	Max	Mean	Median	StDev
UP_C_RM_1	-102.97	-74.84	-79.99	-80.26	-82.85
UP_P_RG258_0	-95.69	-74.78	-80.78	-81.03	-83.57
DOWN_C_RG349_226	-98.16	-65.57	-78.35	-78.78	-79.28
DOWN_P_RG371_233	-97.26	-73.47	-79.07	-79.34	-81.85

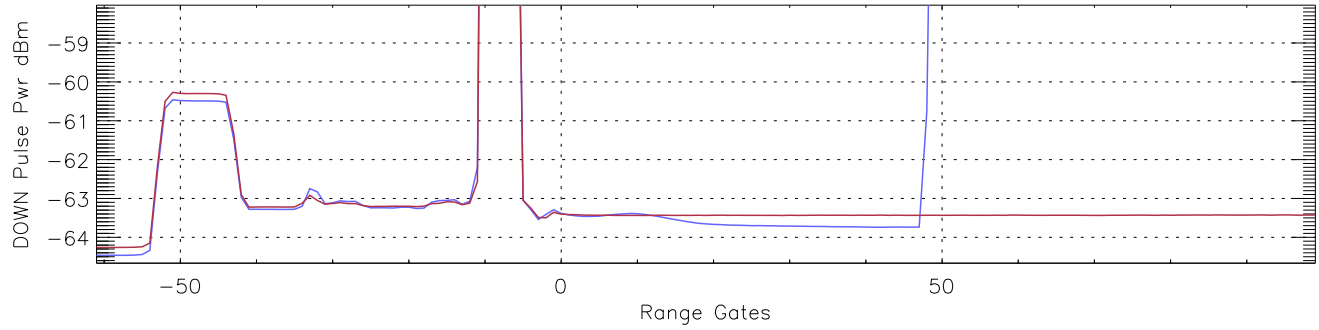


KPR SPP Averaged Received power for all recorded gates
blue: 195326-200126, 2401 profiles averaged
red: 200126-200926, 2400 profiles averaged

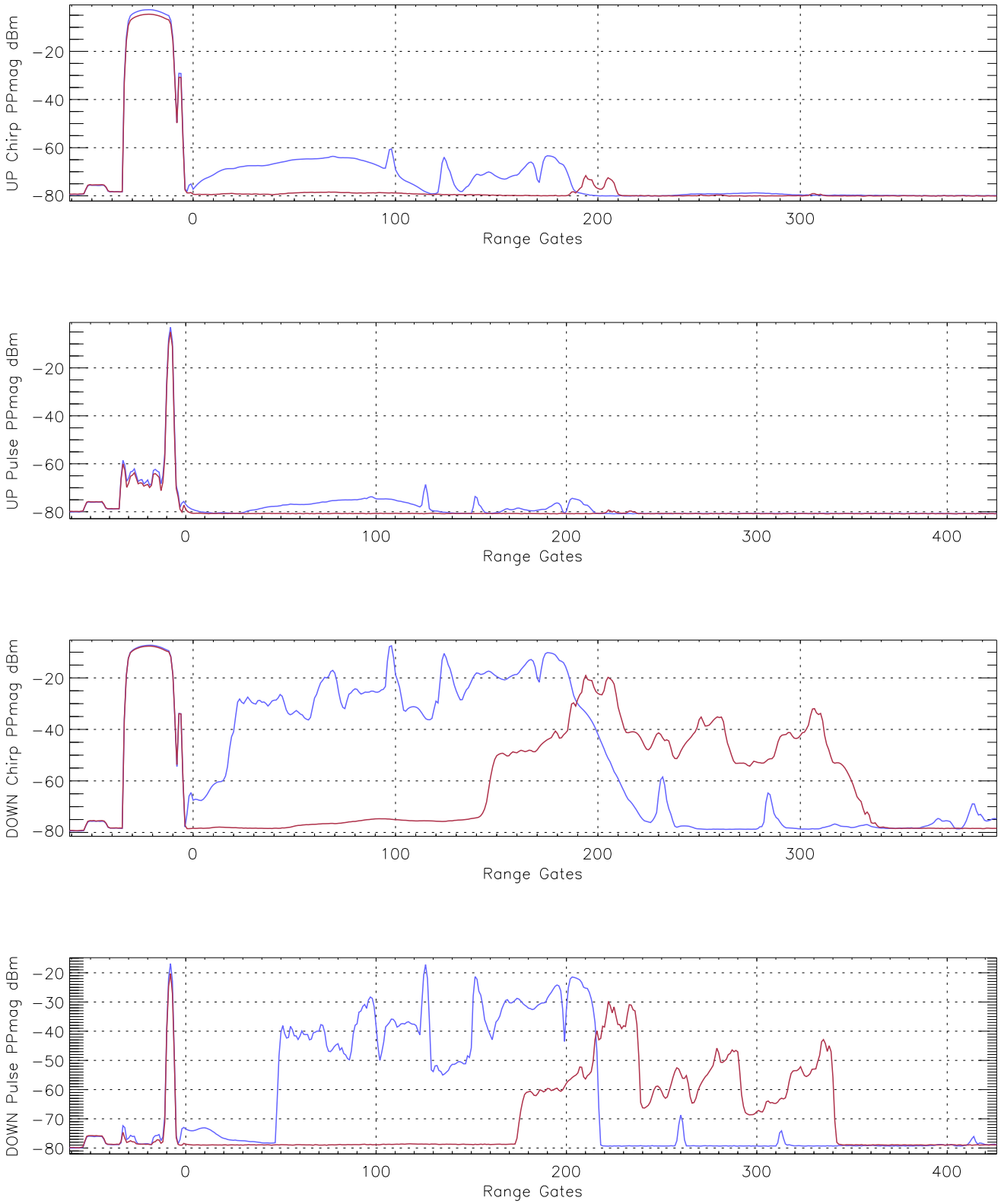




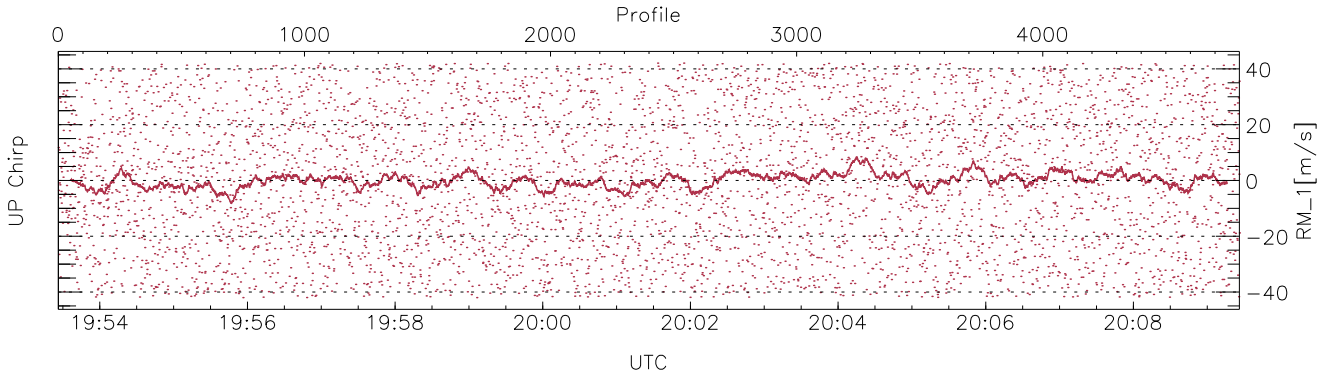


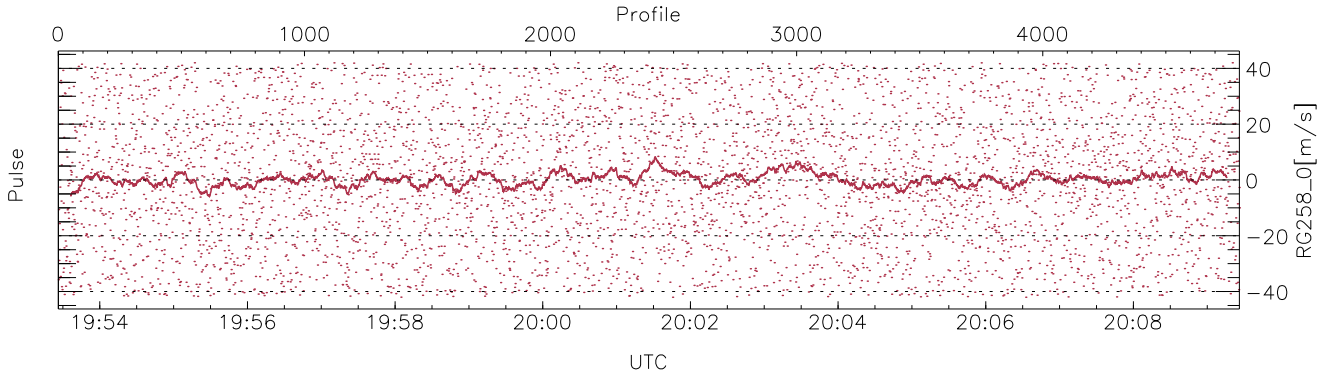


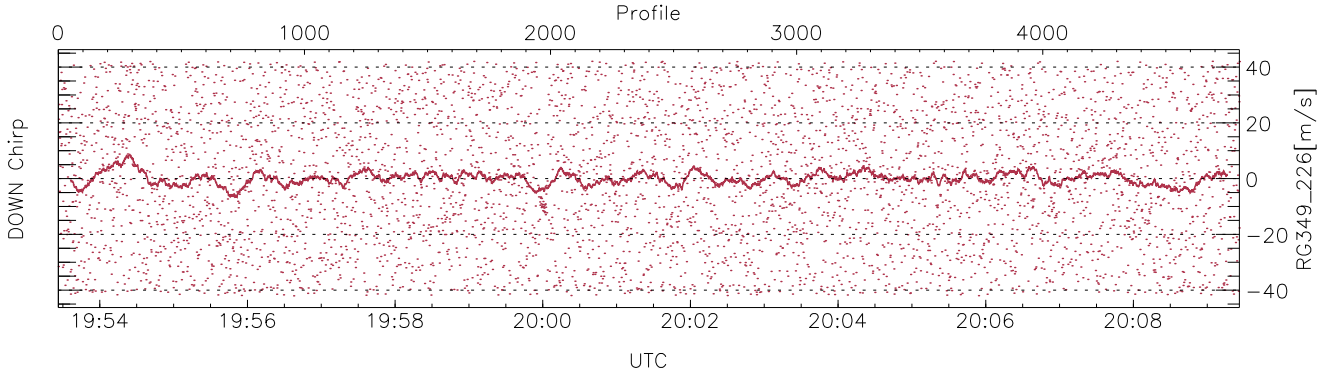
KPR SPP Averaged Power for neg. gates & up to 100 gates
blue: 195326-200126, 2401 profiles averaged
red: 200126-200926, 2400 profiles averaged

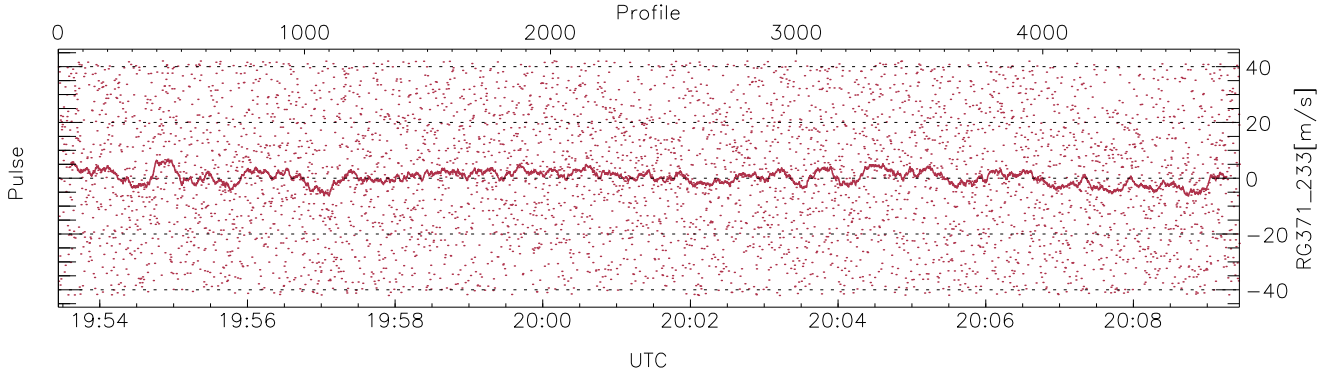


KPR SPP Averaged PP magnitude for all recorded gates
blue: 195326-200126, 2401 profiles averaged
red: 200126-200926, 2400 profiles averaged



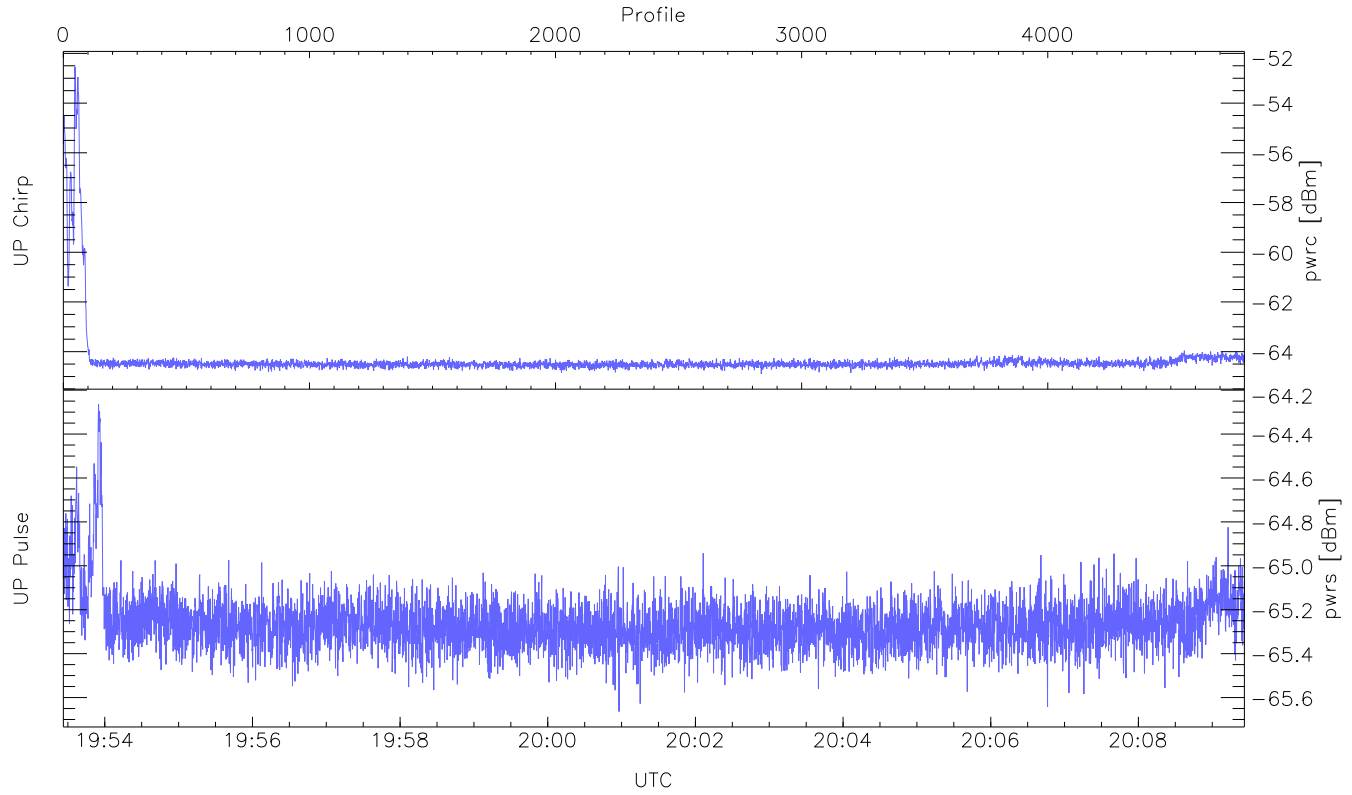


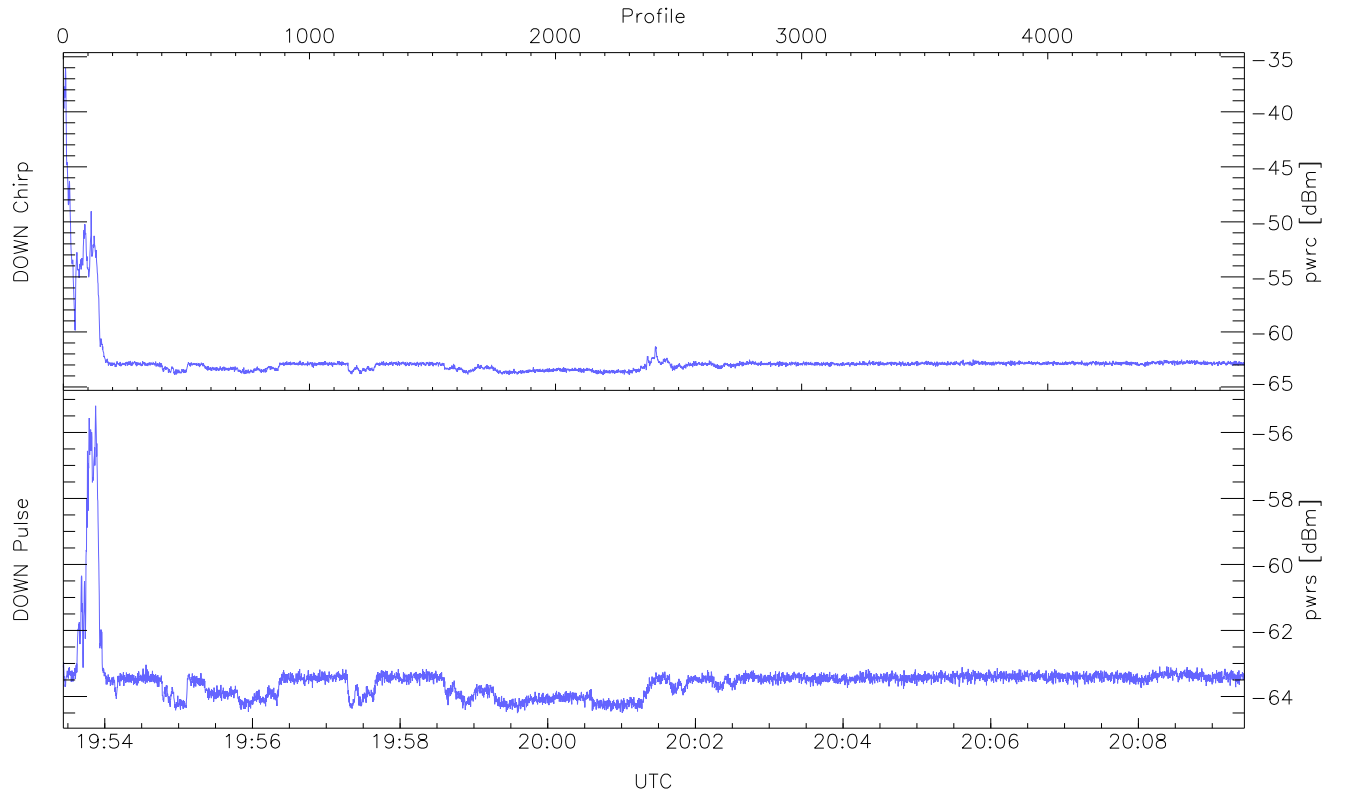




KPR SPP "Best" PPVEL noise (m/s):

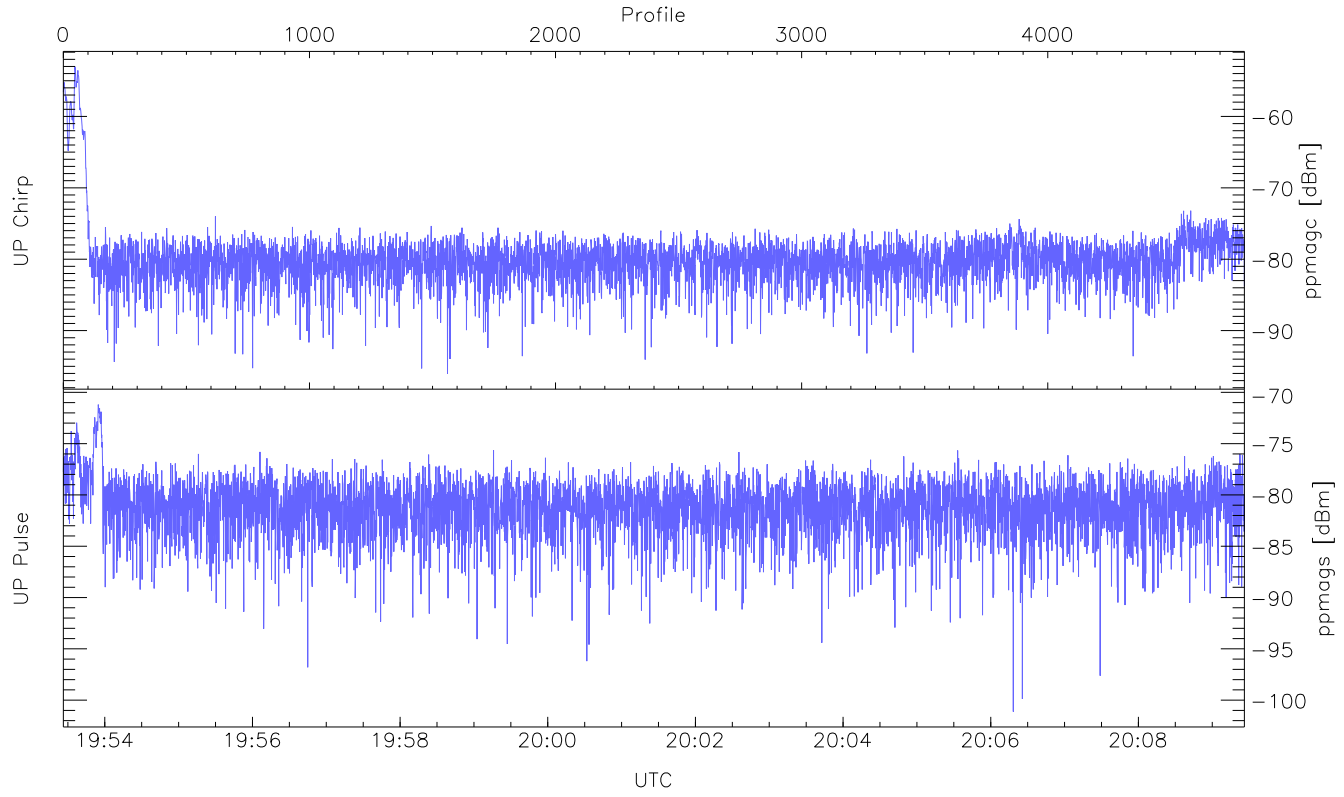
	Min	Max	Mean	Median	StDev
UP_C_RM_1	-42.03	42.05	-0.09	0.46	23.93
UP_P_RG258_0	-42.04	42.02	0.08	0.41	22.77
DOWN_C_RG349_226	-42.05	42.06	0.03	-0.13	23.99
DOWN_P_RG371_233	-42.03	42.06	0.27	0.61	23.08

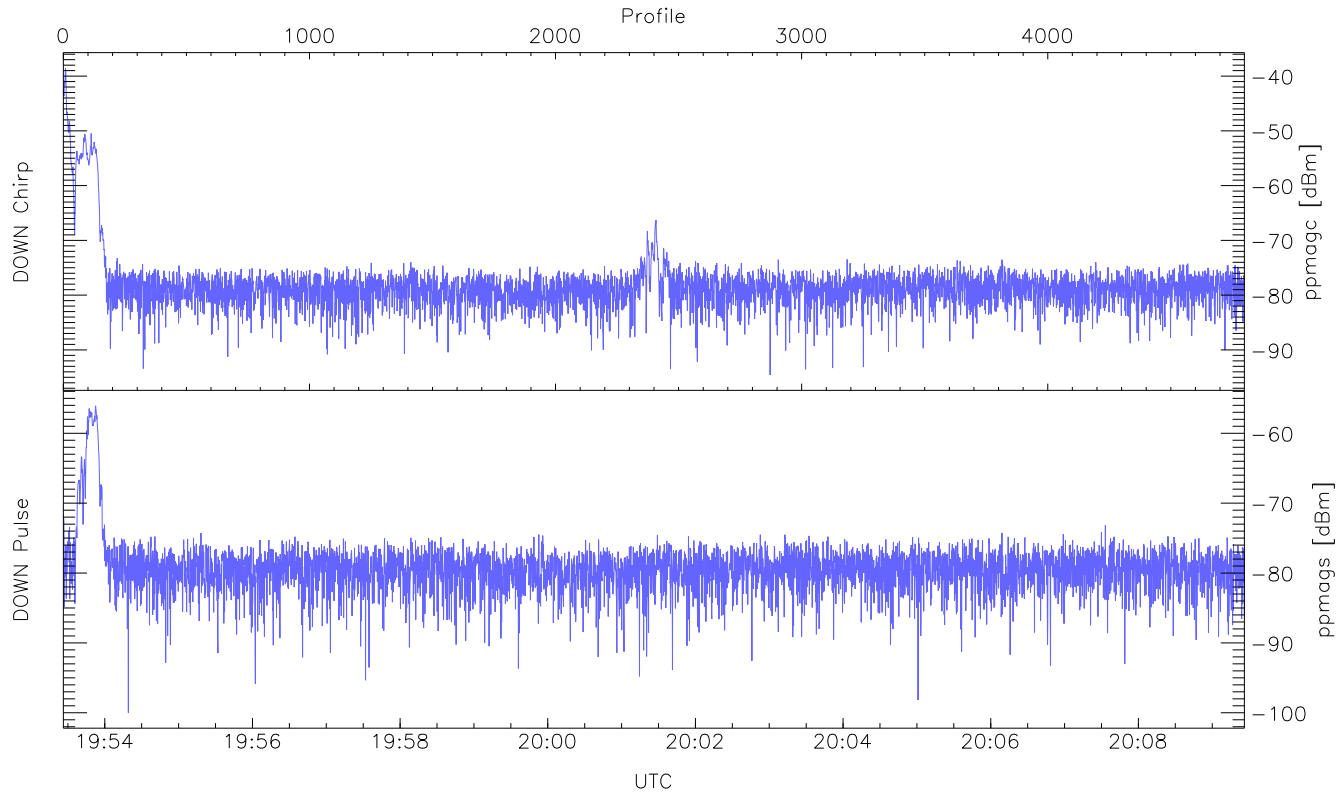




KPR SPP Received Power for Chirp Range gate 10 (686.2 m)
KPR SPP Received Power for Pulse Range gate 10 (270.7 m)

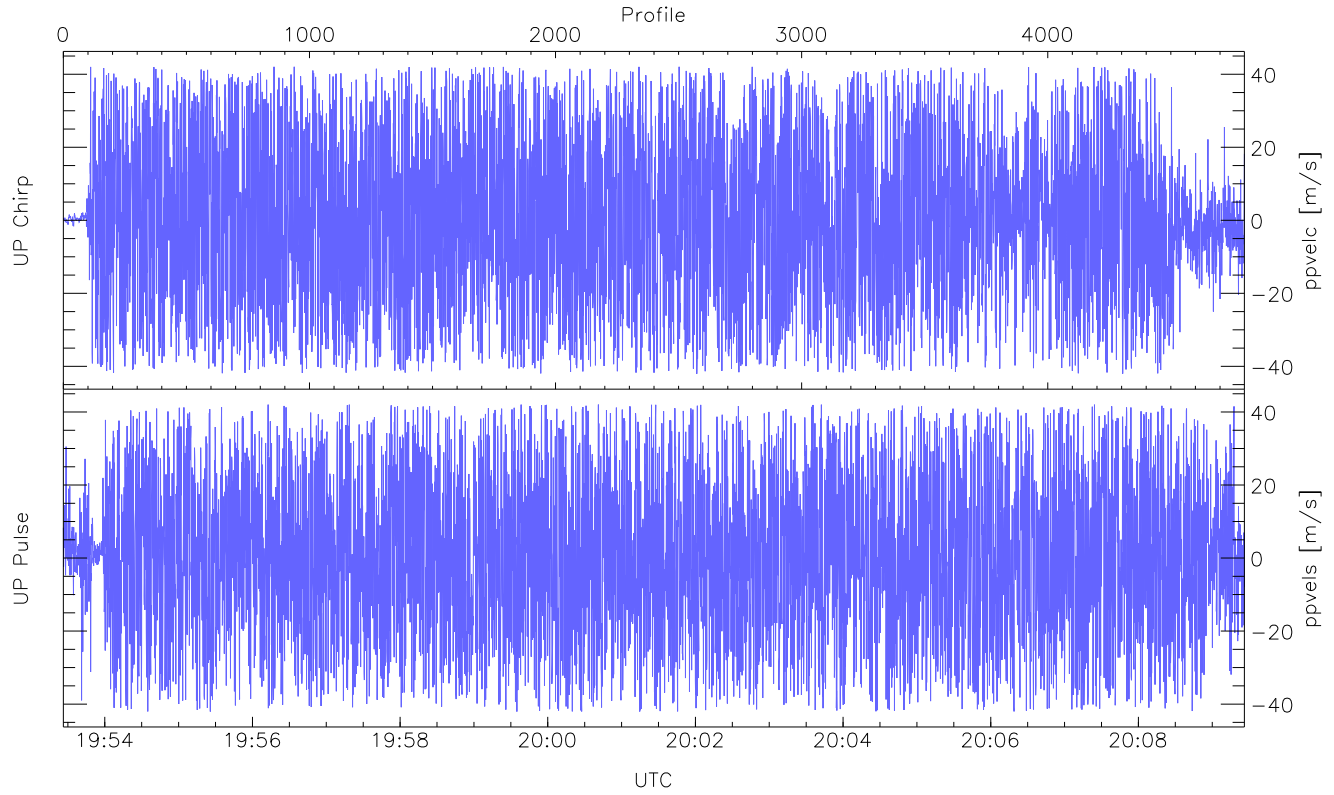
	Min	Max	Mean
UP Chirp(dBm)	-64.89	-52.54	-64.07
UP Pulse(dBm)	-65.66	-64.27	-65.26
DOWN Chirp(dBm)	-63.92	-36.02	-59.64
DOWN Pulse(dBm)	-64.50	-55.19	-63.41

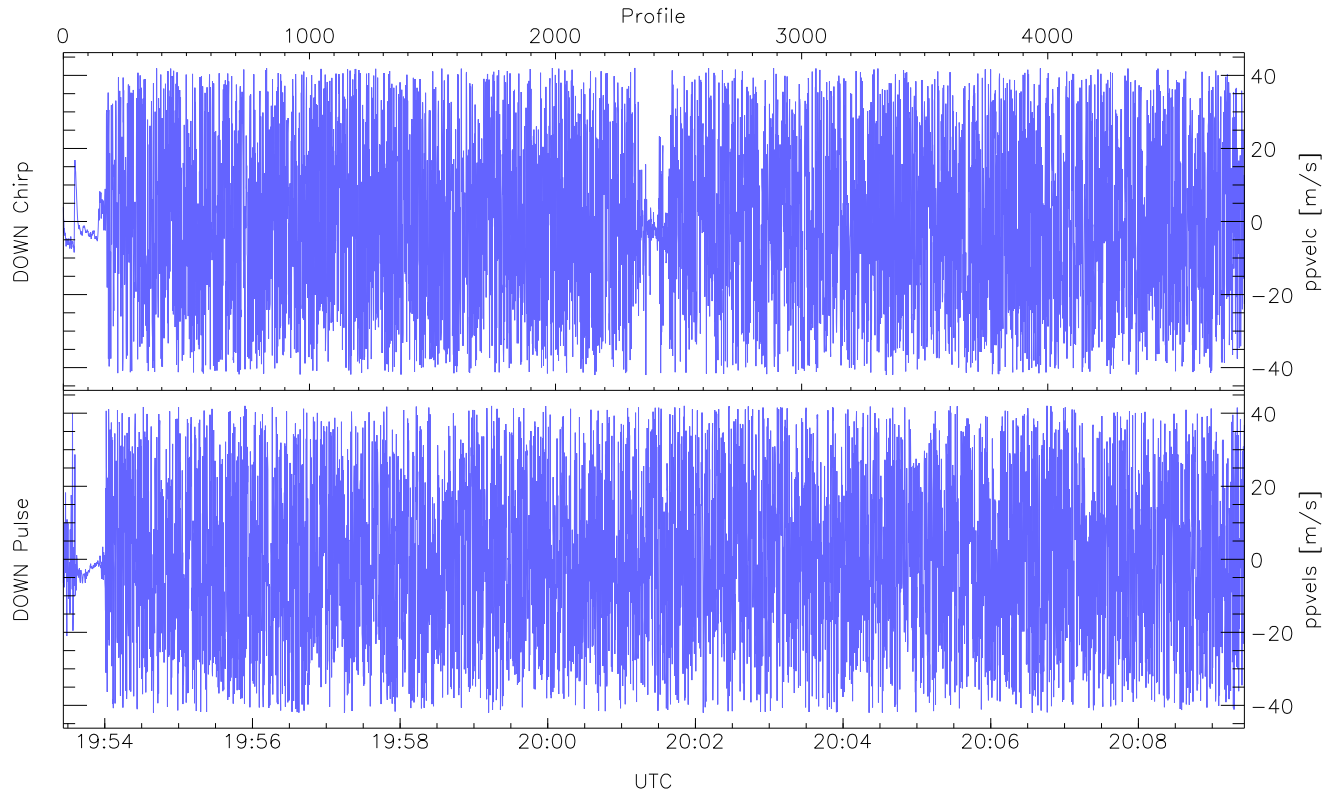




KPR SPP PPMAG for Chirp Range gate 10 (686.2 m)
KPR SPP PPMAG for Pulse Range gate 10 (270.7 m)

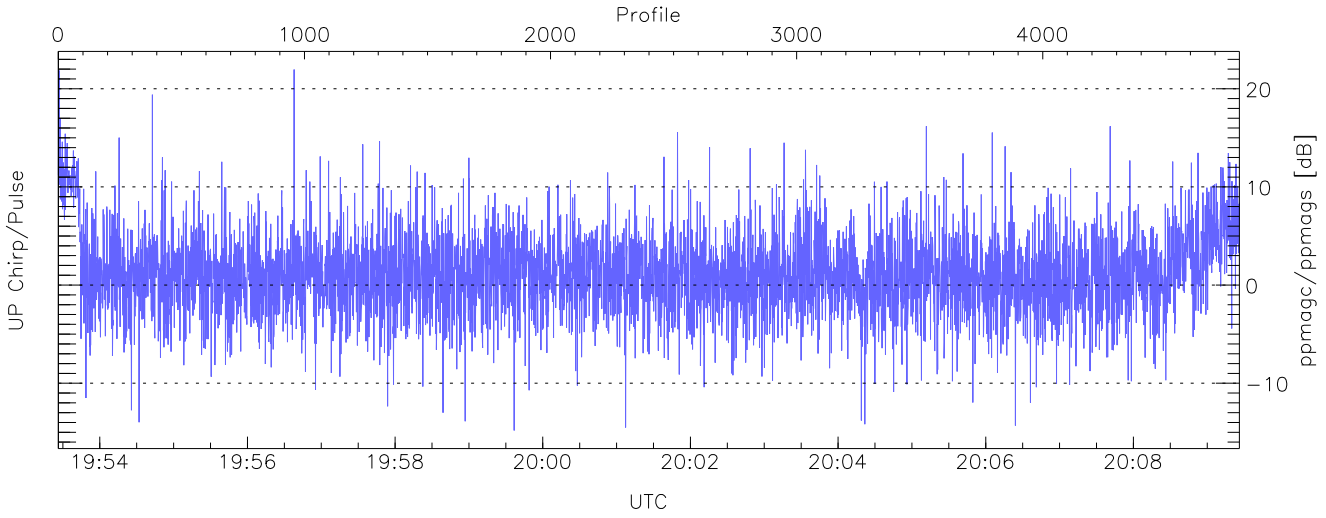
	Min	Max	Mean
UP Chirp(dBm)	-96.05	-53.04	-73.67
UP Pulse(dBm)	-101.12	-71.19	-80.48
DOWN Chirp(dBm)	-94.59	-38.52	-64.43
DOWN Pulse(dBm)	-100.00	-56.06	-75.11

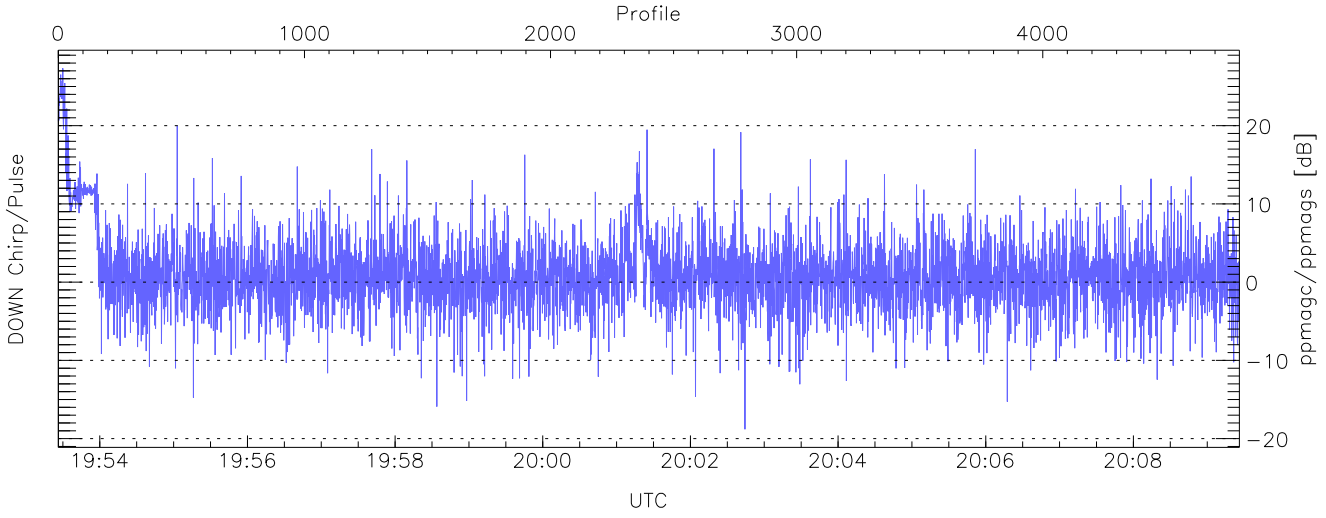


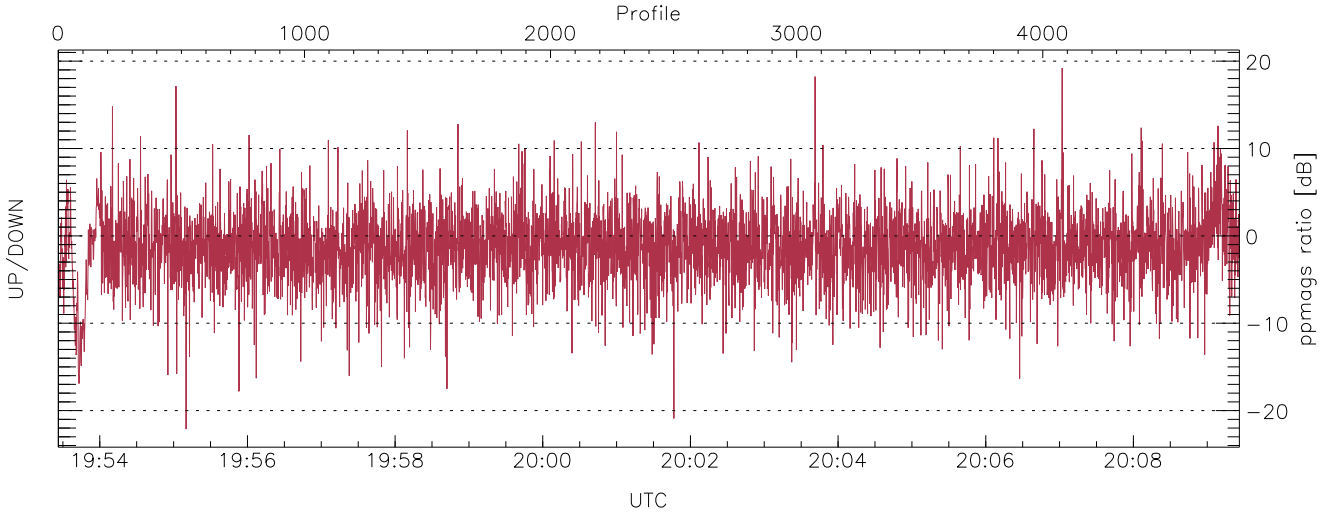


KPR SPP PPVEL for Chirp Range gate 10 (686.2 m)
KPR SPP PPVEL for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(m/s)	-42.05	42.05	0.10
UP Pulse(m/s)	-42.05	42.05	0.31
DOWN Chirp(m/s)	-42.03	42.03	-0.34
DOWN Pulse(m/s)	-42.04	42.04	-0.53







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

	Min	Max	Mean
UP Chirp/Pulse(dBm)	-14.82	21.97	3.39
DOWN Chirp/Pulse(dBm)	-18.81	27.33	5.75

UP/DOWN Ratio at Range 135.8 m

	Min	Max	Mean
UP/DOWN(dB)	-22.12	19.21	0.61