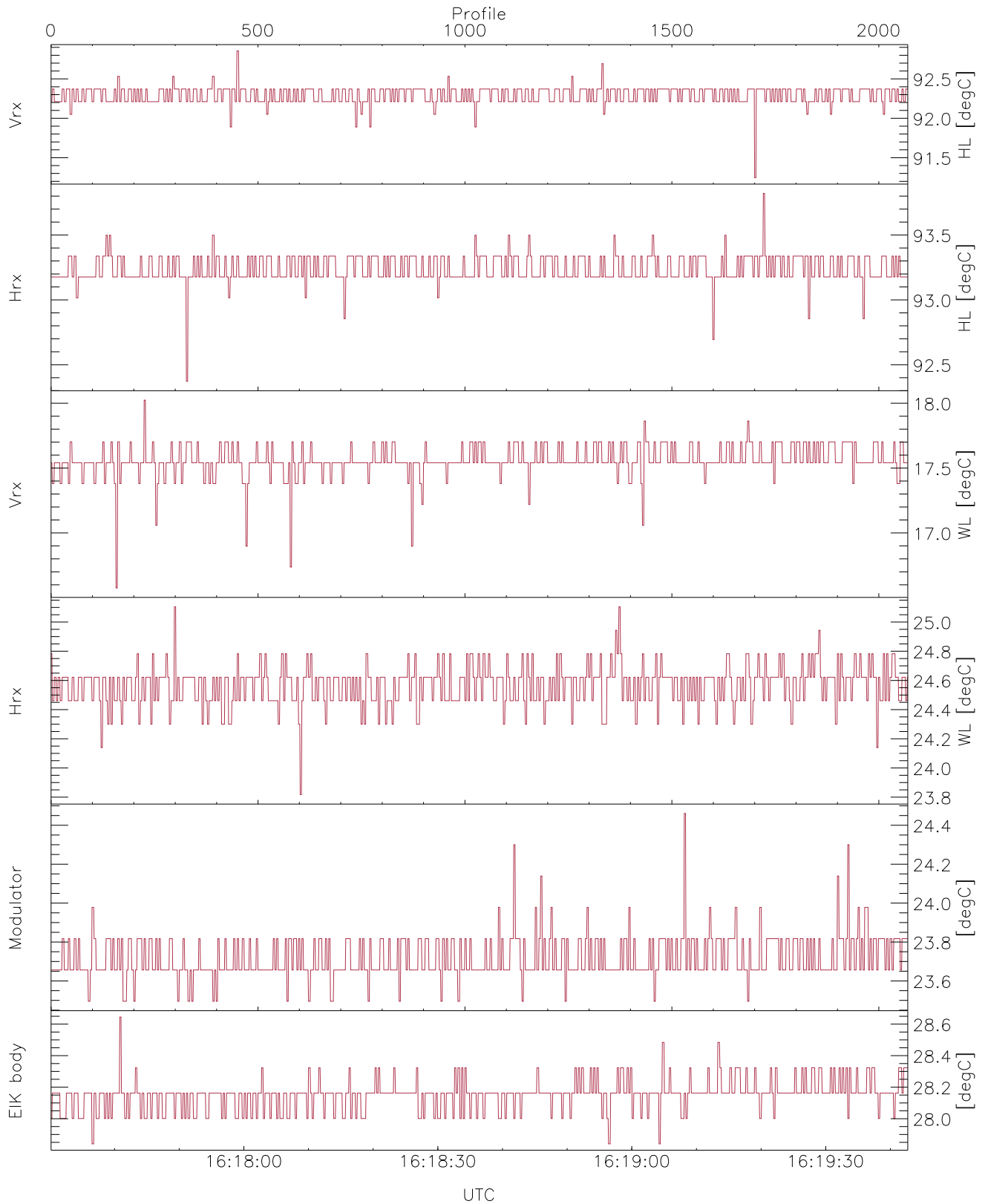


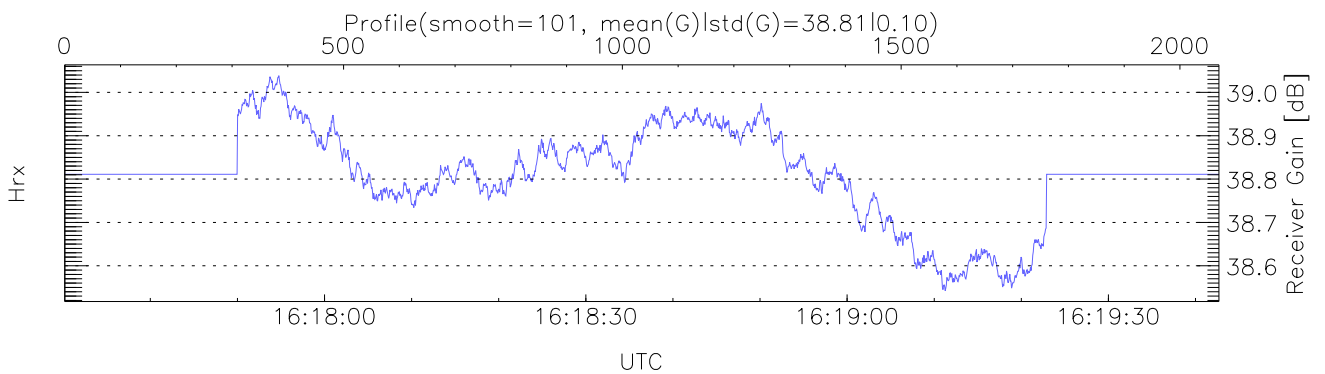
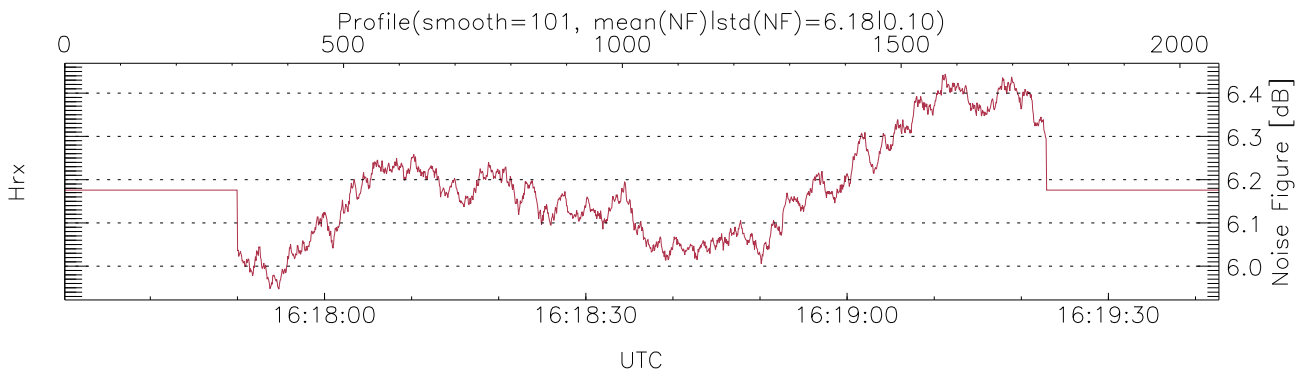
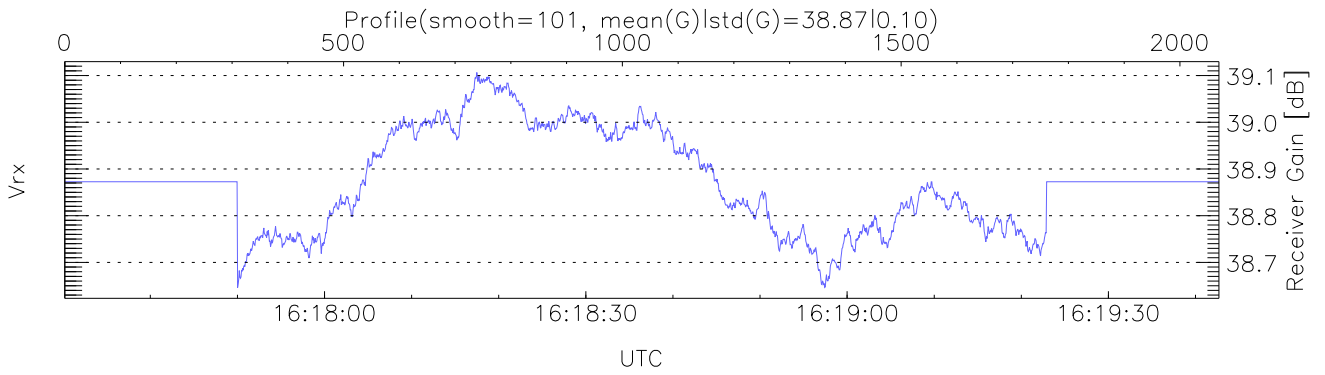
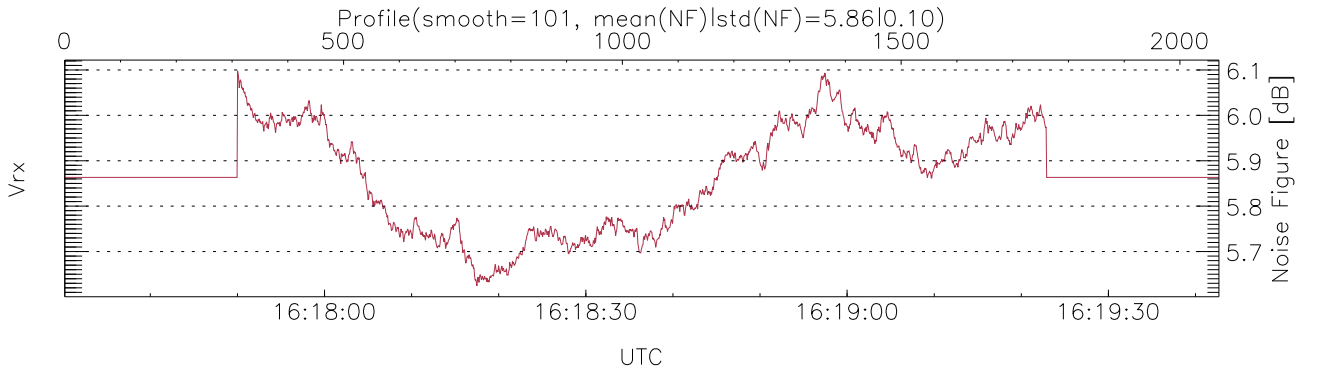
WCR2 CPP Tx Power Monitor, Profile Time Interval, HotLoad/WarmLoad Ratios

UTC: 16:17:30-16:19:43, Dur: 132.51s  
 TimeCor: 0.00s, TimeFlg: 1, TFPstatus constant  
 TimeInt/PPS(min,max,mn,std): 64.0,64.0,64.0,0.0 ms / 16,16,16  
 NumRec(r/t): 2071/2071, 0-2070/16:17:30-16:19:43  
 AcqTime: 64.0ms, Rate: 440KB/s, Averages: 160  
 Pulse: 250ns, IFF: 4.0MHz, Tx: H1 H1 V1 V1 H2 H2 V2 V2  
 PRF: 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 KHz, IGS: 50us  
 Range(min,max,rqs): 105,5436,15.0 m, Gates: 356, Aspect: 2.6  
 Mirror(-9|0|1|2,3,9x = no mirror|sidelup|error): 1



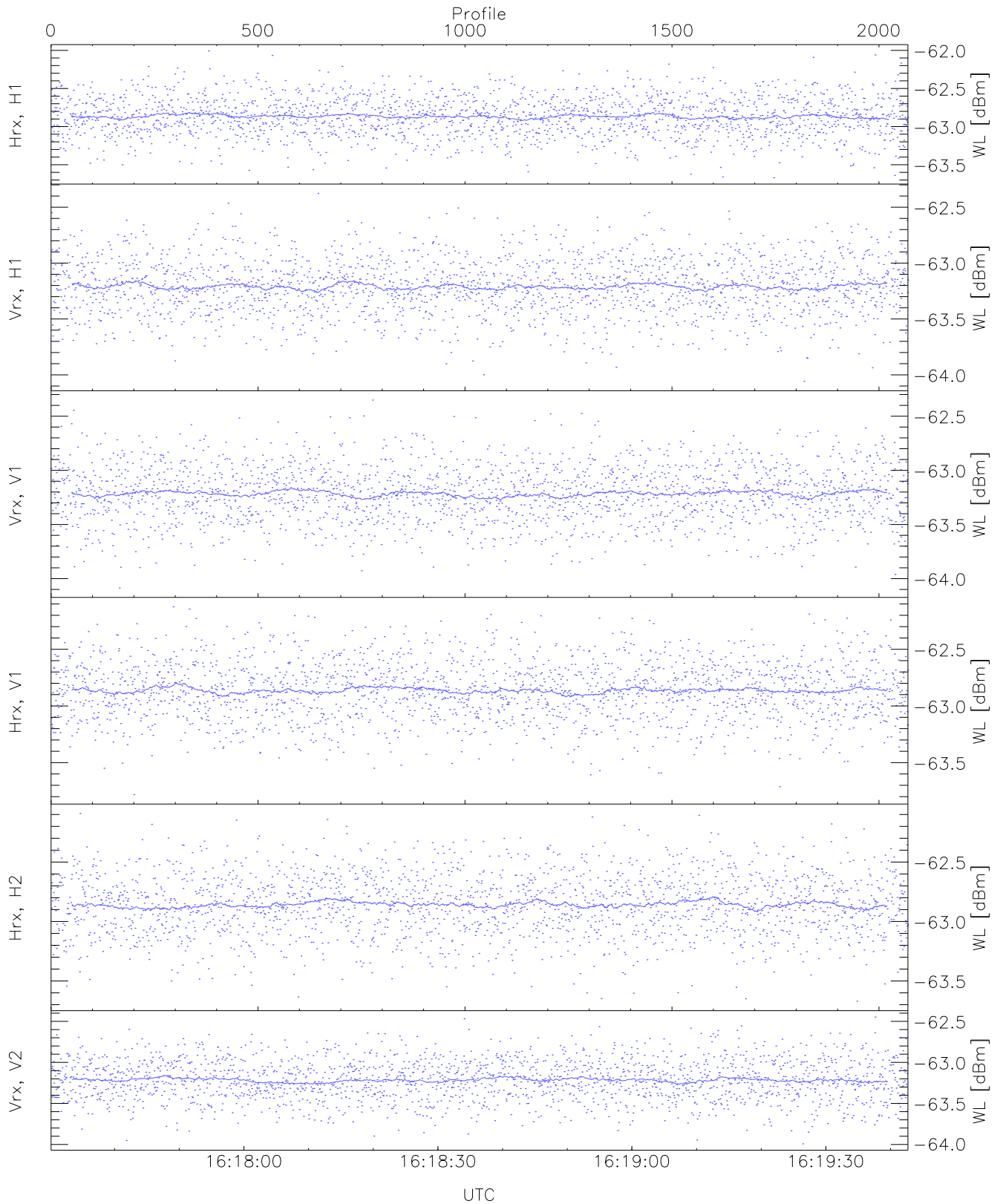
WCR2 CPP Temperature Monitor: Hot Loads, Warm Loads, Modulator, and EIK

mintempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 91,92,16,23,23,27  
 maxtempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 92,93,18,25,24,28  
 LOalarm(20,80,240,2.8,14.8 MHz): None  
 EIK Faults(# prof affected):  
     HVPS (4)



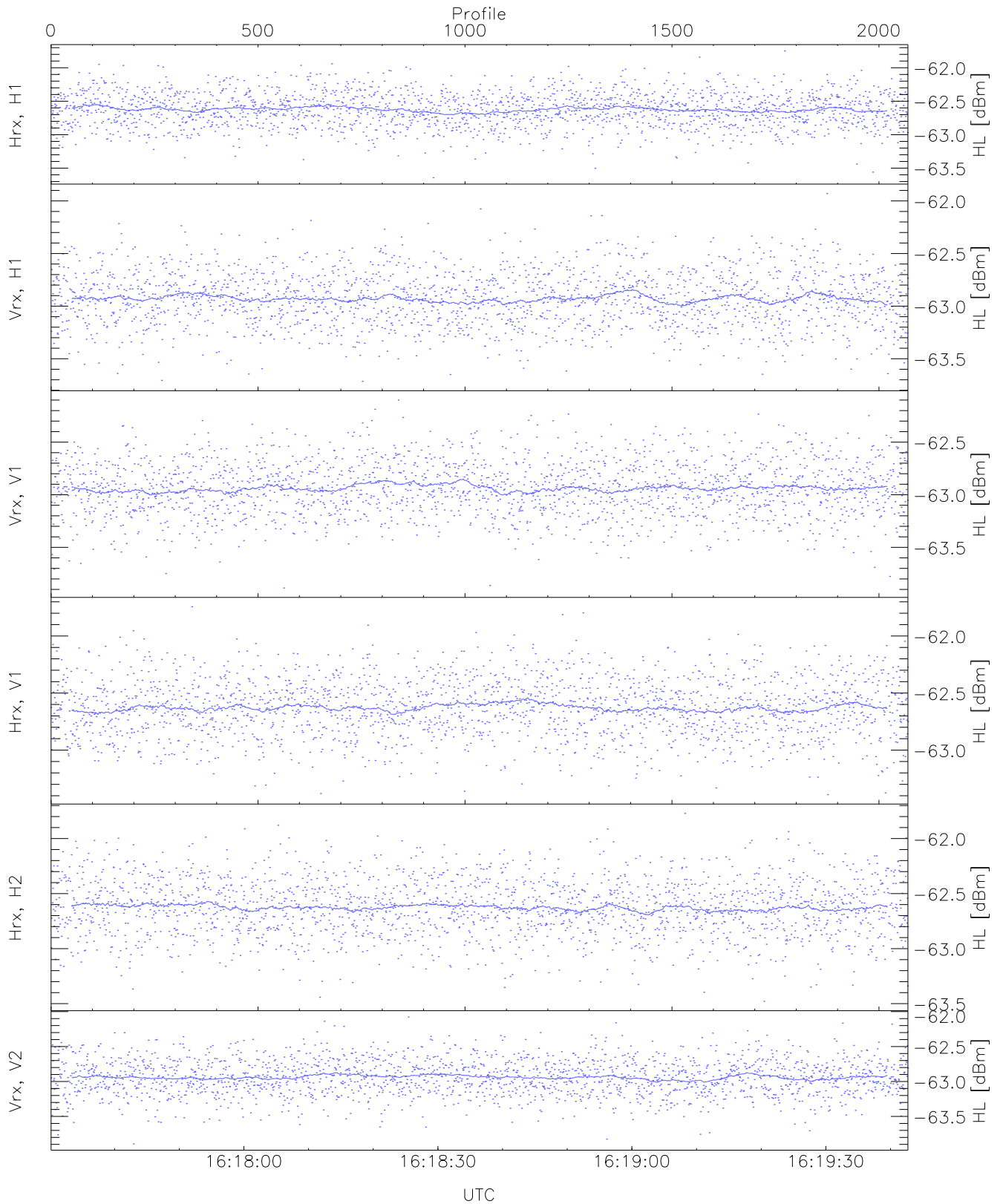
### WCR2 CPP Receivers Gain and Noise Figure

Rx Saturation: 46 pixs, 3 gates, 41 profs, 1 prods



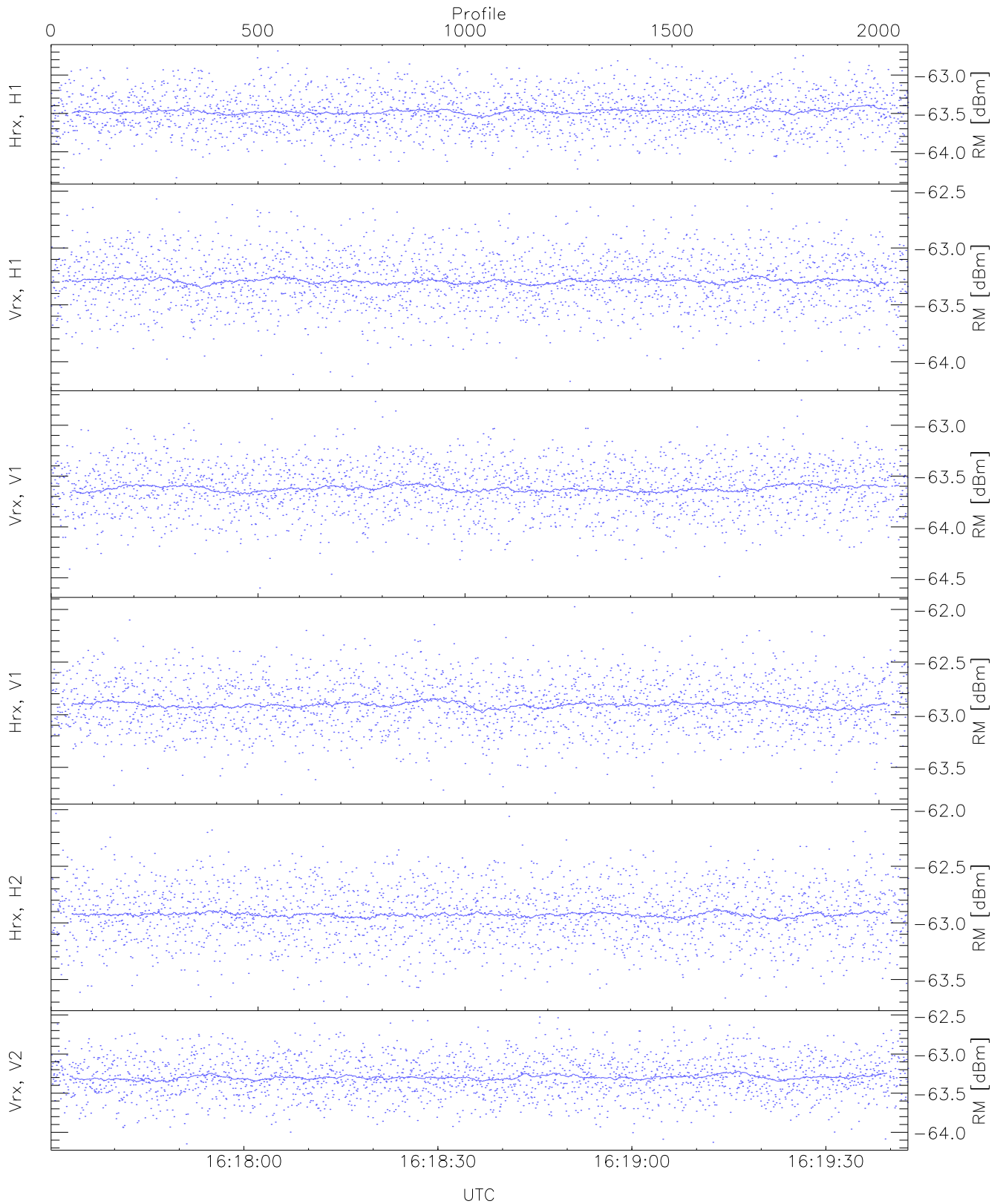
WCR2 CPP Receivers Noise Power from the Warm Loads Measurements

|                    | Min    | Max    | Mean   | Median | StDev  |
|--------------------|--------|--------|--------|--------|--------|
| Hrx, H1 (WL [dBm]) | -63.67 | -62.01 | -62.86 | -62.87 | -75.35 |
| Vrx, H1 (WL [dBm]) | -64.06 | -62.38 | -63.20 | -63.21 | -75.77 |
| Vrx, V1 (WL [dBm]) | -64.09 | -62.35 | -63.21 | -63.21 | -75.57 |
| Hrx, V1 (WL [dBm]) | -63.78 | -62.12 | -62.86 | -62.86 | -75.27 |
| Hrx, H2 (WL [dBm]) | -63.67 | -62.09 | -62.85 | -62.86 | -75.28 |
| Vrx, V2 (WL [dBm]) | -63.99 | -62.45 | -63.21 | -63.22 | -75.79 |



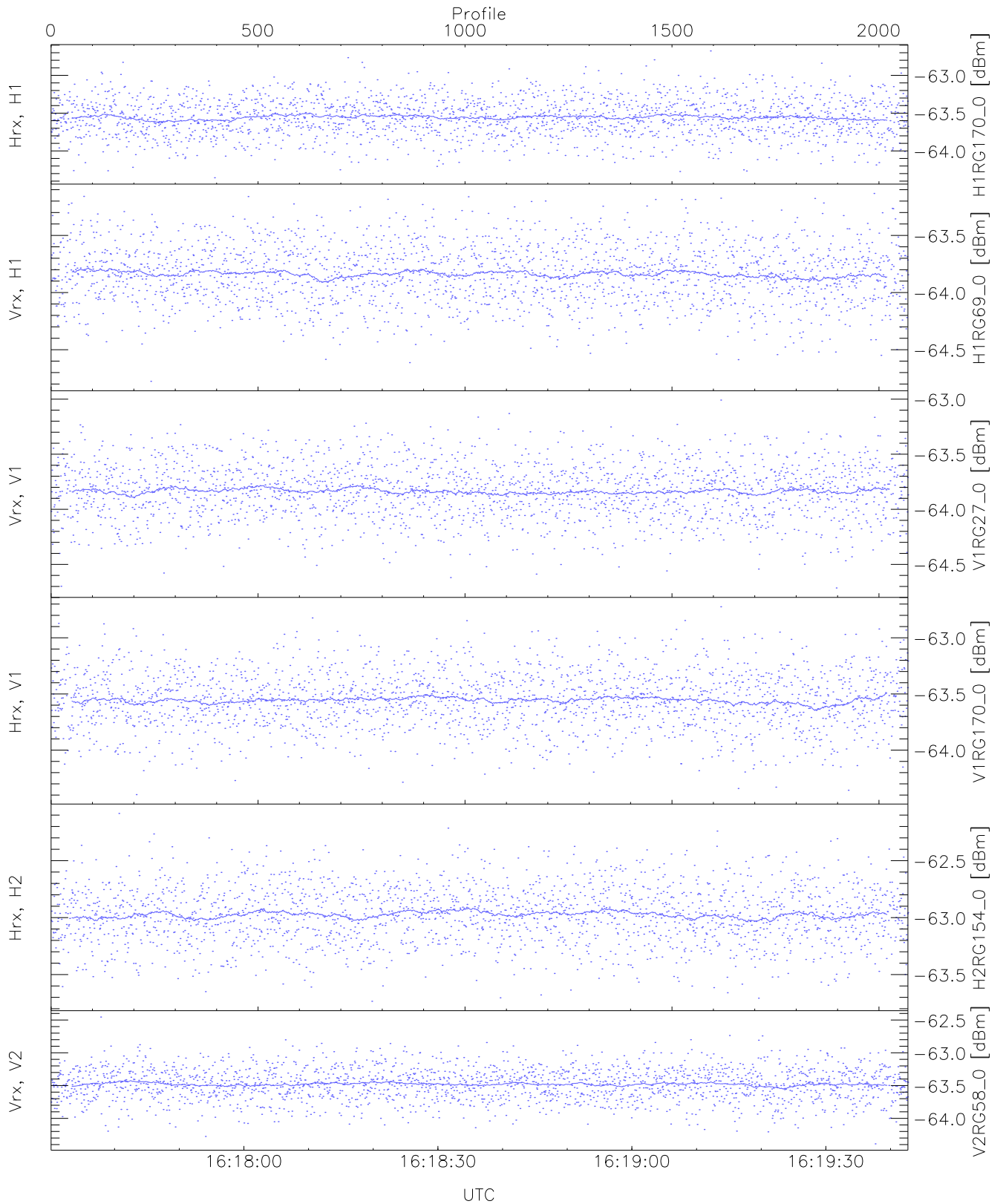
WCR2 CPP Receivers Noise Power from the Hot Loads Measurements

|                    | Min    | Max    | Mean   | Median | StDev  |
|--------------------|--------|--------|--------|--------|--------|
| Hrx, H1 (HL [dBm]) | -63.64 | -61.75 | -62.62 | -62.62 | -75.08 |
| Vrx, H1 (HL [dBm]) | -63.71 | -61.93 | -62.92 | -62.93 | -75.34 |
| Vrx, V1 (HL [dBm]) | -63.89 | -62.10 | -62.93 | -62.94 | -75.31 |
| Hrx, V1 (HL [dBm]) | -63.39 | -61.74 | -62.62 | -62.63 | -75.07 |
| Hrx, H2 (HL [dBm]) | -63.48 | -61.77 | -62.62 | -62.63 | -74.98 |
| Vrx, V2 (HL [dBm]) | -63.89 | -62.08 | -62.93 | -62.94 | -75.35 |



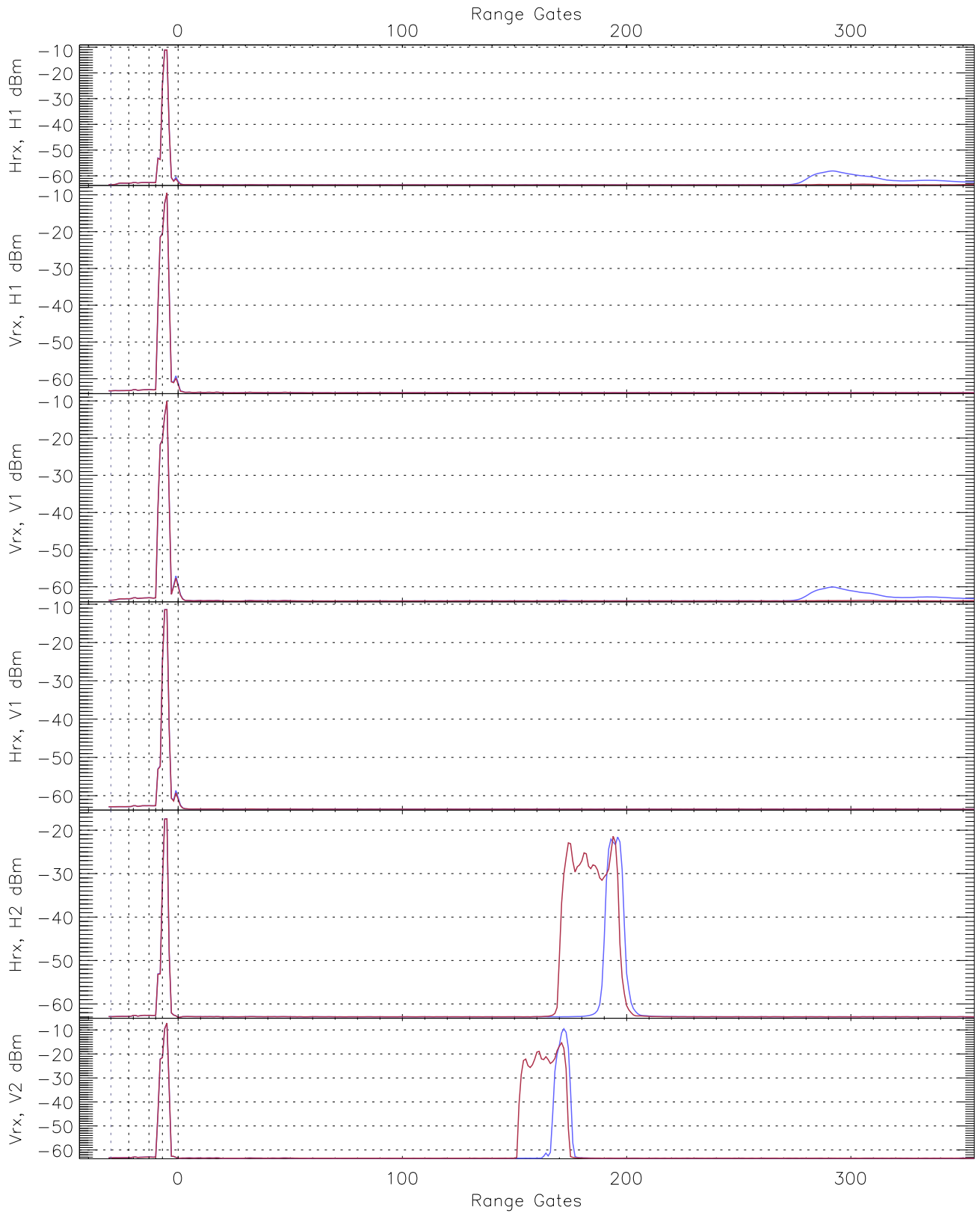
WCR2 CPP Receivers Noise Power from the Sky/RM Measurements

|                    | Min    | Max    | Mean   | Median | StDev  |
|--------------------|--------|--------|--------|--------|--------|
| Hrx, H1 (RM [dBm]) | -64.34 | -62.69 | -63.47 | -63.48 | -75.71 |
| Vrx, H1 (RM [dBm]) | -64.17 | -62.52 | -63.29 | -63.29 | -75.84 |
| Vrx, V1 (RM [dBm]) | -64.60 | -62.75 | -63.62 | -63.62 | -76.09 |
| Hrx, V1 (RM [dBm]) | -63.76 | -61.97 | -62.90 | -62.91 | -75.33 |
| Hrx, H2 (RM [dBm]) | -63.69 | -62.03 | -62.92 | -62.93 | -75.33 |
| Vrx, V2 (RM [dBm]) | -64.15 | -62.53 | -63.29 | -63.30 | -75.65 |



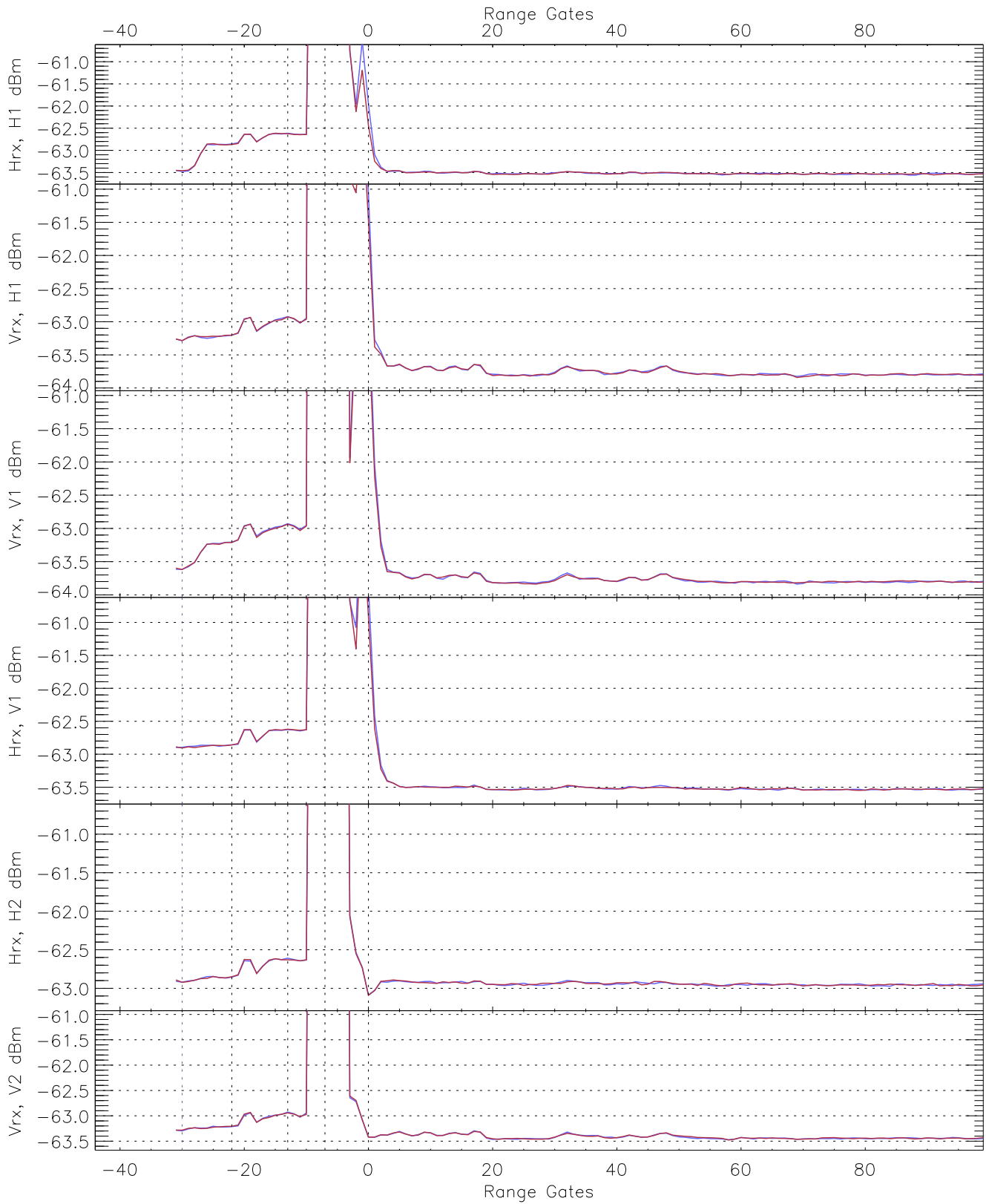
WCR2 CPP "Best" estimate Receivers Noise Power

|                 | Min    | Max    | Mean   | Median | StDev  |
|-----------------|--------|--------|--------|--------|--------|
| H1RG170_0 [dBm] | -64.36 | -62.68 | -63.55 | -63.56 | -76.07 |
| H1RG69_0 [dBm]  | -64.78 | -63.13 | -63.83 | -63.84 | -76.19 |
| V1RG27_0 [dBm]  | -64.71 | -63.01 | -63.83 | -63.83 | -76.36 |
| V1RG170_0 [dBm] | -64.40 | -62.72 | -63.55 | -63.56 | -76.03 |
| H2RG154_0 [dBm] | -63.73 | -62.09 | -62.97 | -62.98 | -75.45 |
| V2RG58_0 [dBm]  | -64.39 | -62.45 | -63.47 | -63.47 | -76.02 |

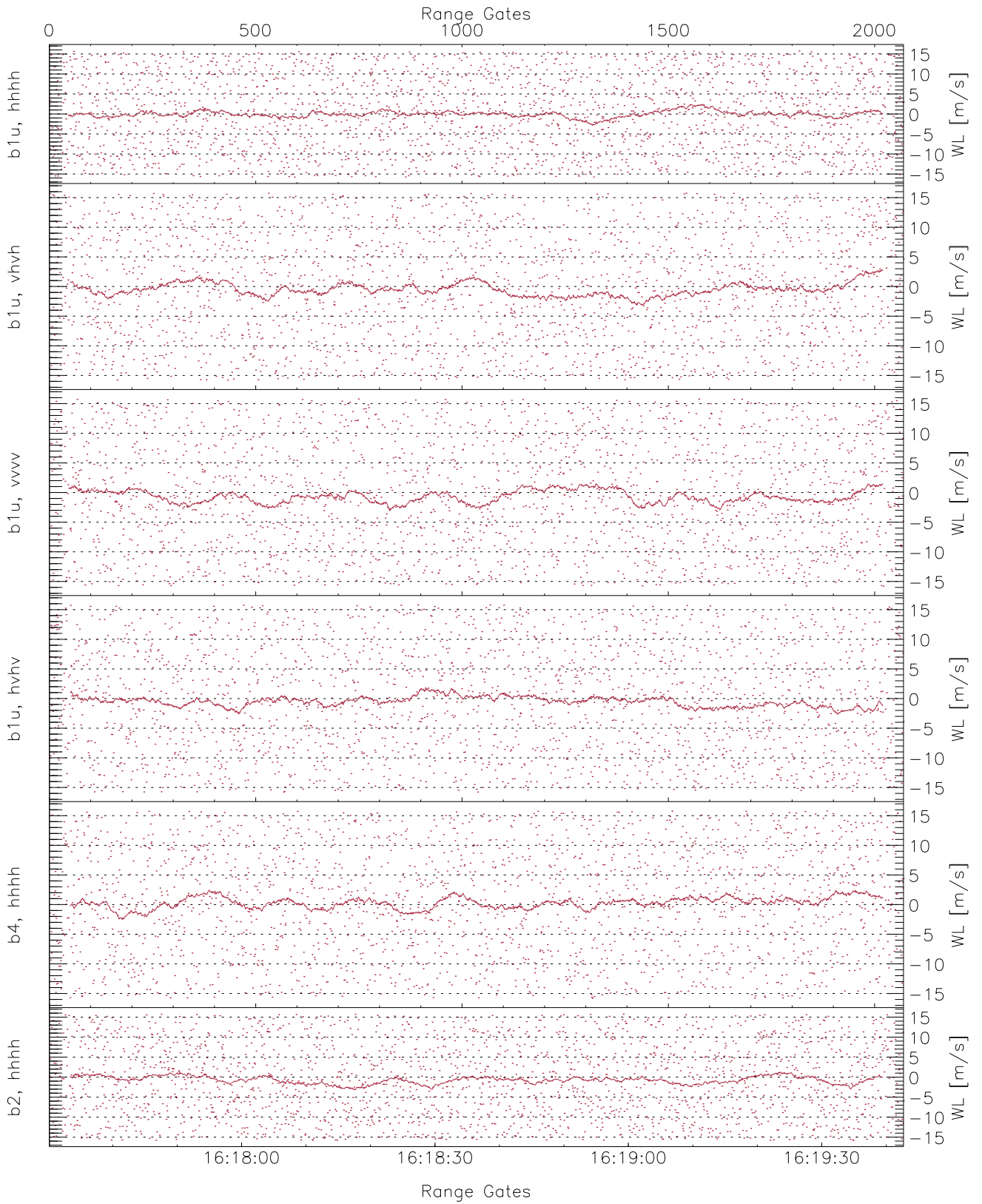


WCR2 CPP Averaged Received power for all recorded gates  
blue: 161730-161836, 1036 profiles averaged  
red: 161836-161943, 1036 profiles averaged

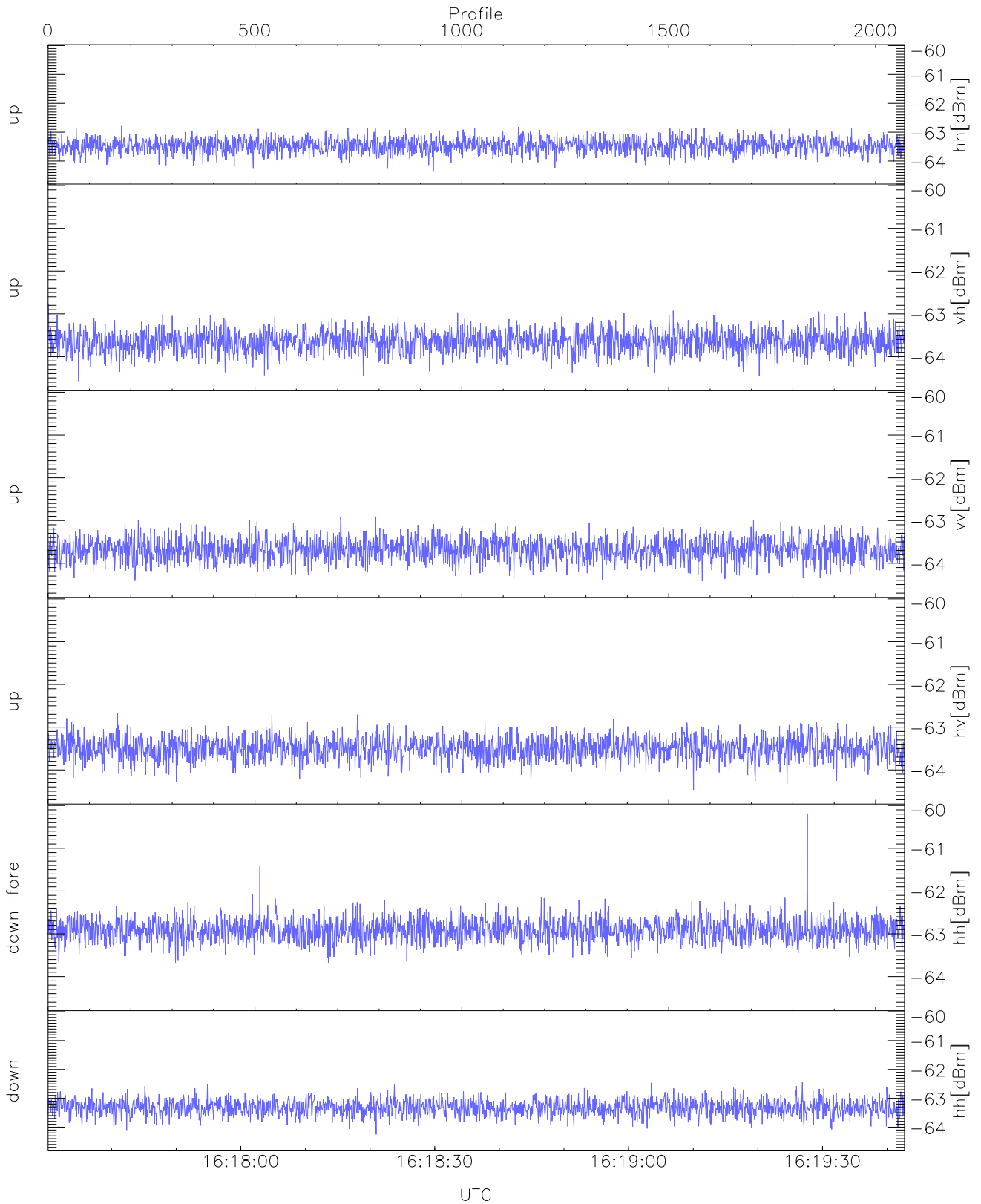




WCR2 CPP Averaged Received power for the negative gates and up to 100 gates  
blue: 161730-161836, 1036 profiles averaged  
red: 161836-161943, 1036 profiles averaged

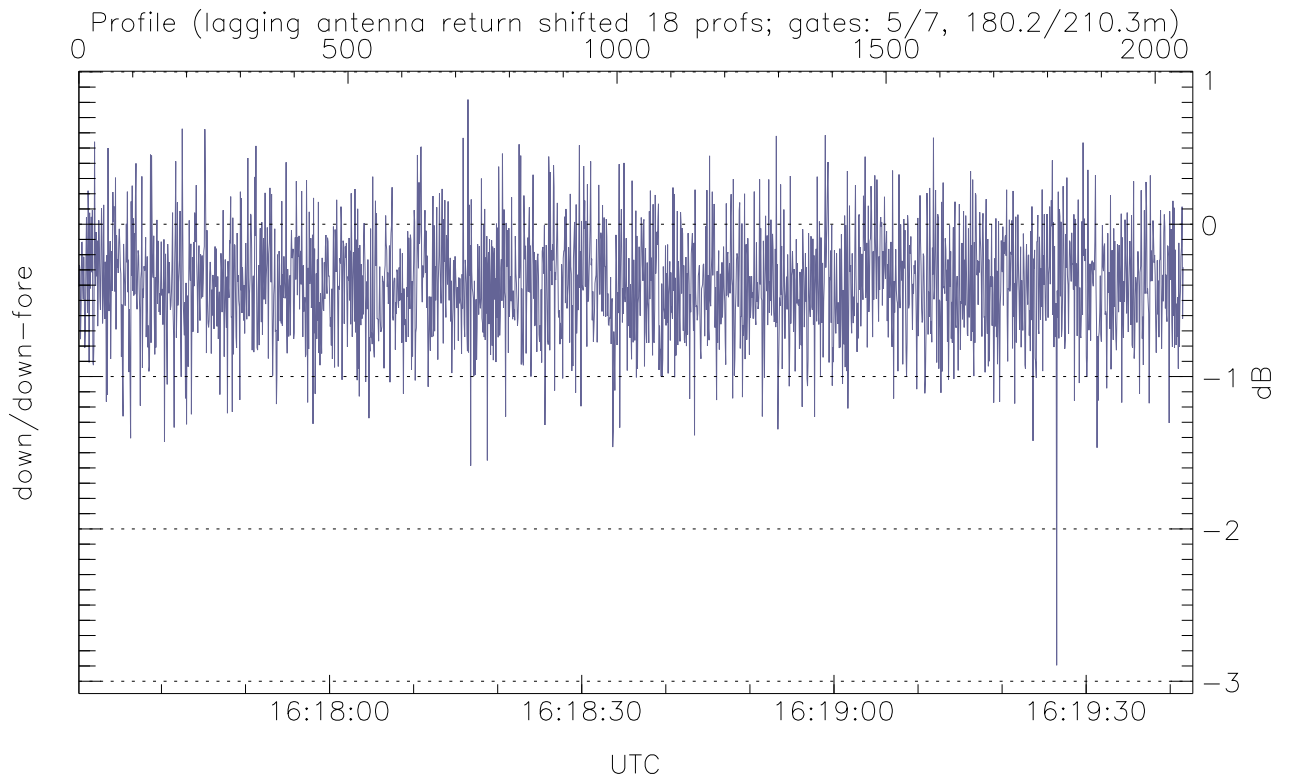
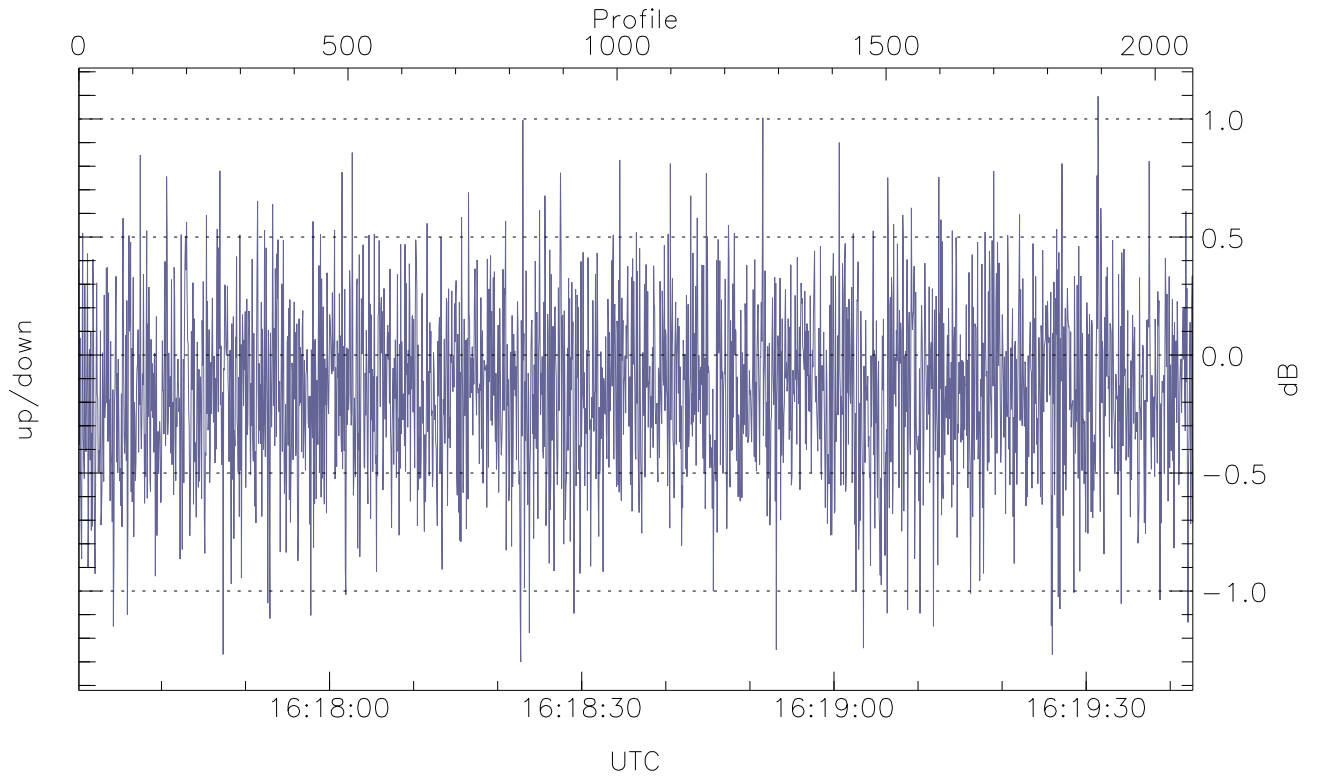


WCR2 CPP Receivers Phase Noise (in m/s) from the Warm Loads Measurements



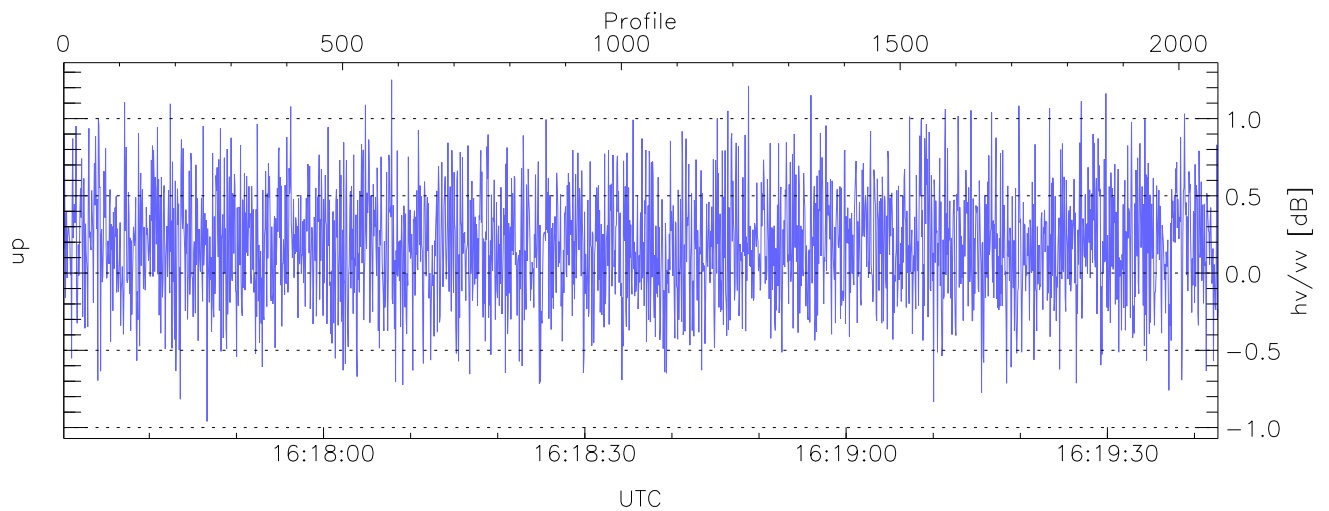
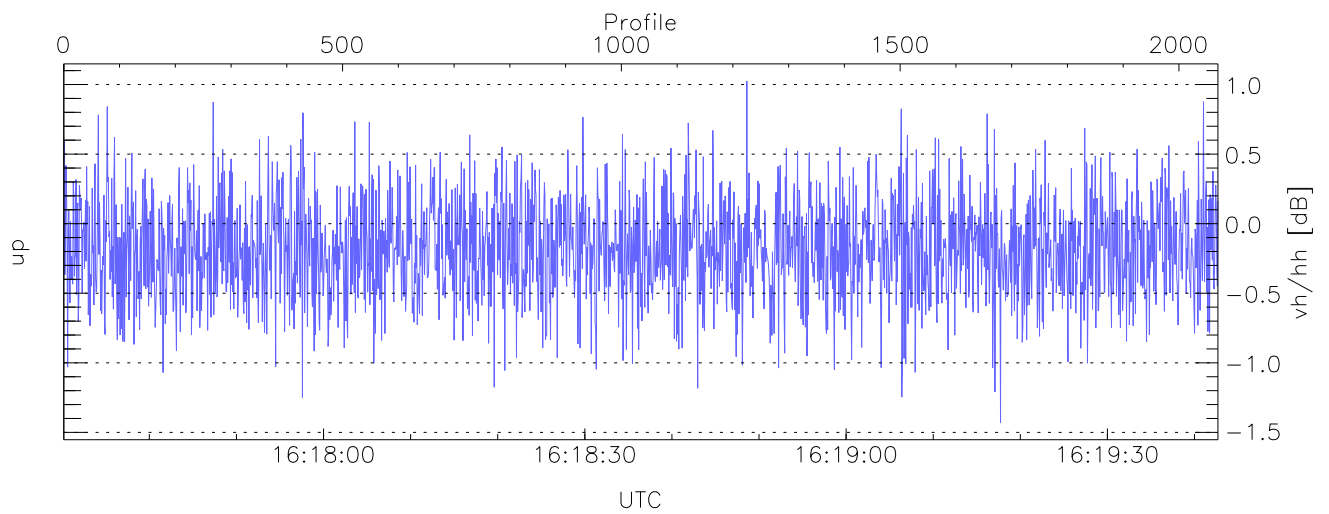
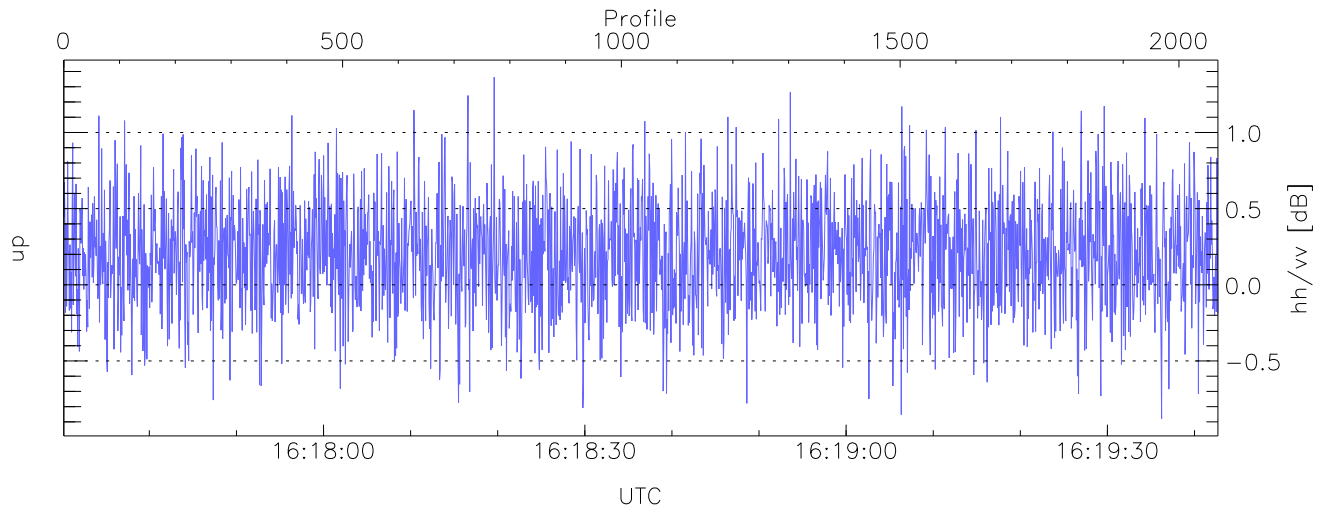
WCR2 CPP Received Power Products for Range gate 5 (180.2 m)

|                    | Min    | Max    | Mean   |
|--------------------|--------|--------|--------|
| up(hh[dBm])        | -64.37 | -62.78 | -63.46 |
| up(vh[dBm])        | -64.58 | -62.75 | -63.64 |
| up(vv[dBm])        | -64.42 | -62.91 | -63.67 |
| up(hv[dBm])        | -64.46 | -62.66 | -63.49 |
| down-fore(hh[dBm]) | -63.67 | -60.18 | -62.90 |
| down(hh[dBm])      | -64.25 | -62.44 | -63.31 |



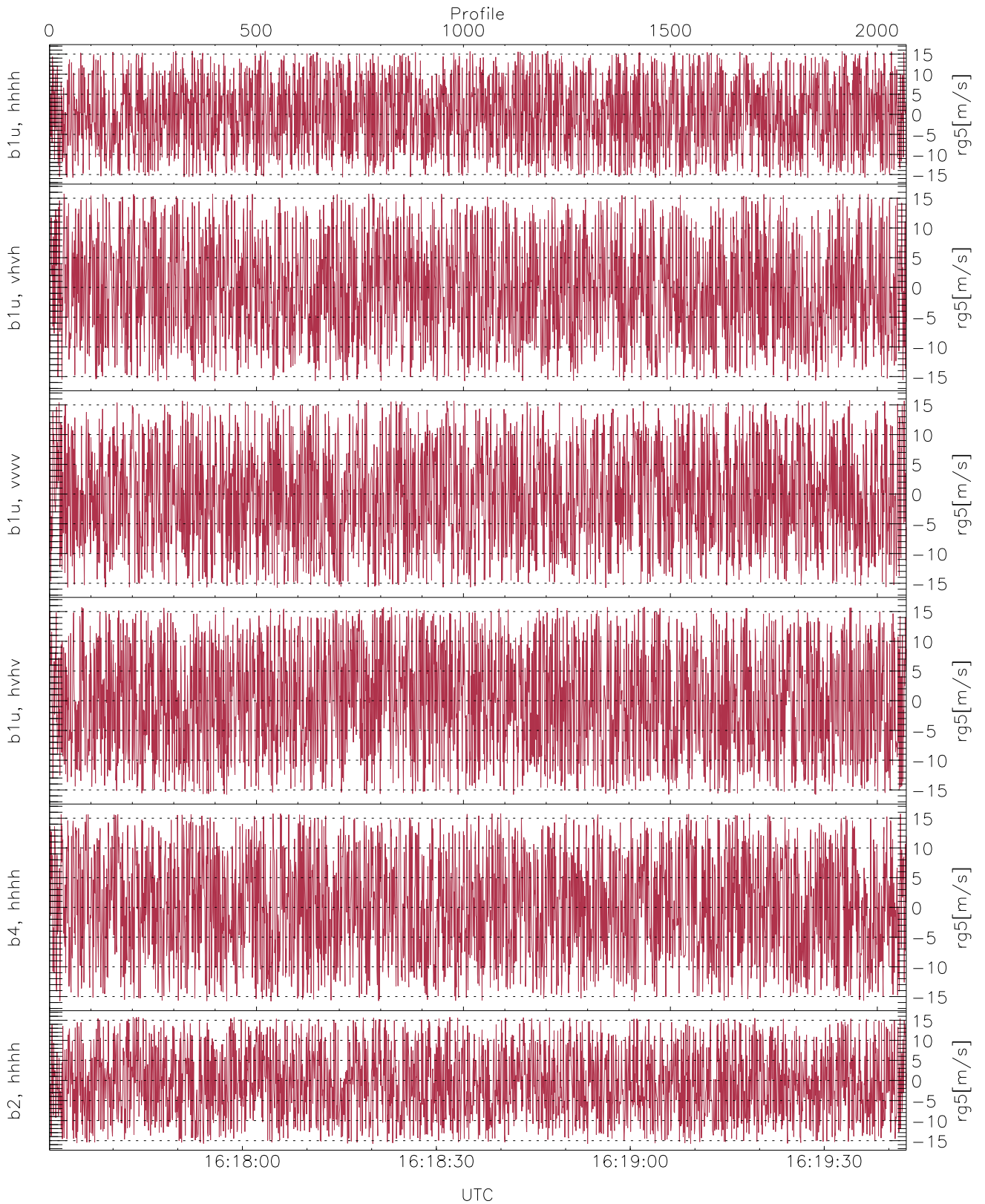
WCR2 Beam pairs Received Power Ratio(s); RangeGate: 5 (180 m)

|                     | Min   | Max  | Mean  |
|---------------------|-------|------|-------|
| up/down (dB)        | -1.30 | 1.10 | -0.15 |
| down/down-fore (dB) | -2.90 | 0.82 | -0.39 |



WCR2 Co- and Cross-pol Received Power Ratio(s); RangeGate: 5 (180 m)

|                | Min   | Max  | Mean  |
|----------------|-------|------|-------|
| up(hh/vv [dB]) | -0.88 | 1.36 | 0.22  |
| up(vh/hh [dB]) | -1.43 | 1.03 | -0.17 |
| up(hv/vv [dB]) | -0.96 | 1.25 | 0.19  |



WCR2 CPP Doppler Velocity Products at 180.2 m range

|                     | Min    | Max   | Mean  | StDev |
|---------------------|--------|-------|-------|-------|
| b1u, hhhh(rg5[m/s]) | -15.80 | 15.79 | -0.16 | 9.05  |
| b1u, vvhv(rg5[m/s]) | -15.78 | 15.76 | -0.41 | 8.71  |
| b1u, vvvv(rg5[m/s]) | -15.78 | 15.78 | -0.49 | 8.76  |
| b1u, hvhv(rg5[m/s]) | -15.79 | 15.76 | -0.18 | 9.17  |
| b4, hhhh(rg5[m/s])  | -15.79 | 15.79 | 0.11  | 9.03  |
| b2, hhhh(rg5[m/s])  | -15.78 | 15.79 | -0.65 | 8.84  |