

K4LED

Georgia Amateur Radio Astronomy Observatory

Observation Date: 06-15-2018, 0:00:00 to 23:59:00 UTC

Location: Lat. 34.42322 N, Lon. -84.49413 W (Jasper, GA 30143)

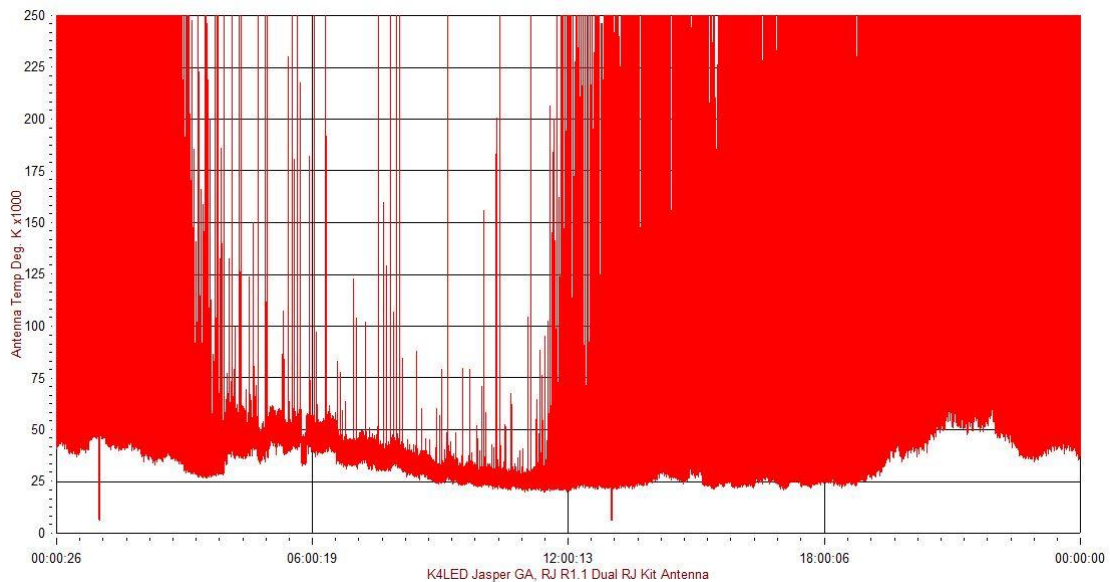
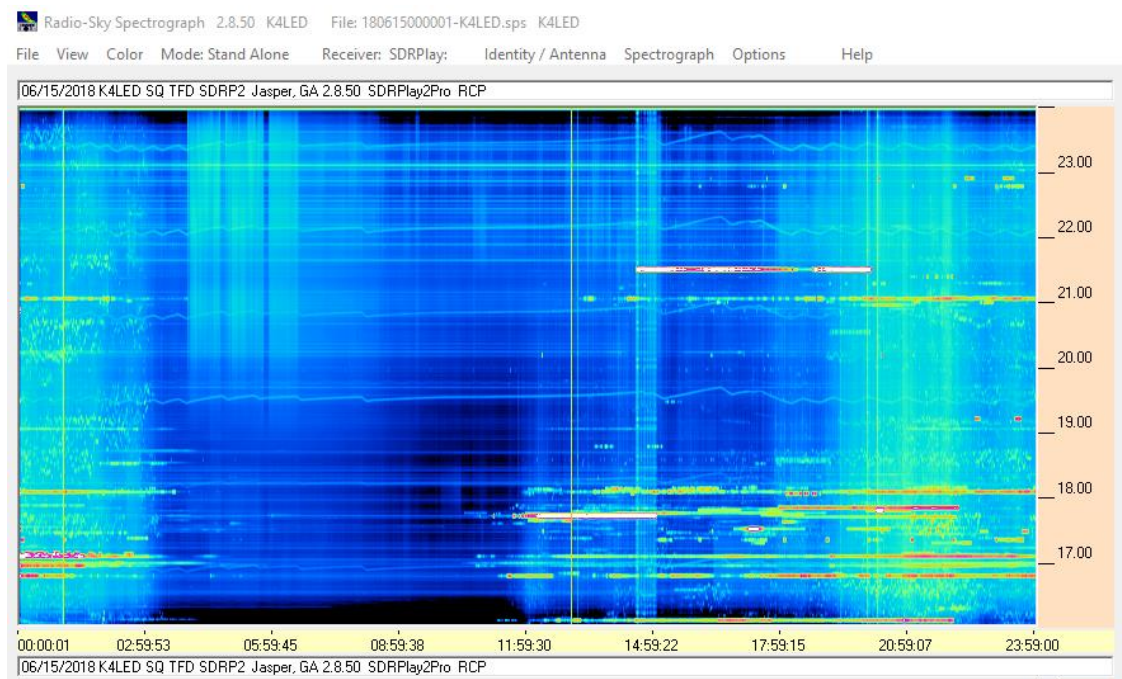
Object: TP, GB, Solar

Observer: Larry E. Dodd

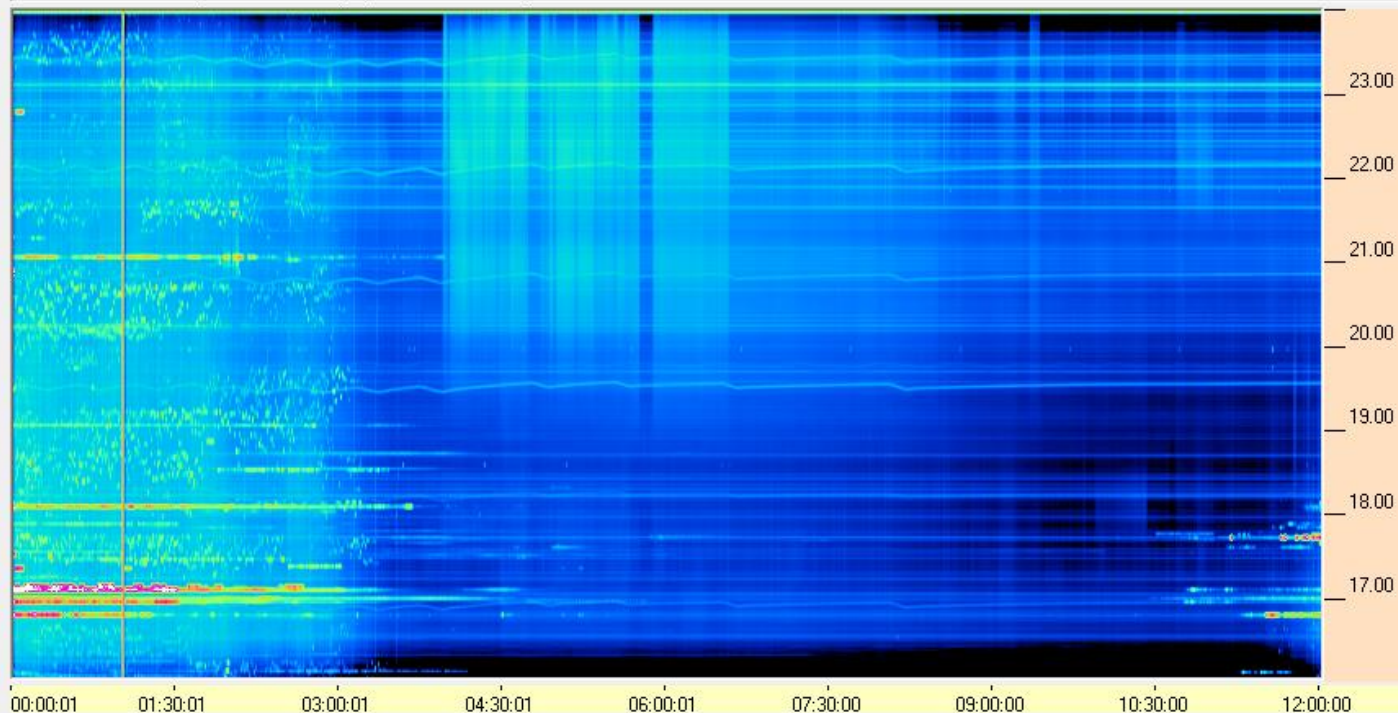
Receivers: FSX11, SDRPlay2PRO, RJ1.1

Software: SkypipeII 2.7.34, Spectrograph 2.8.50

Antennas: Radio Jove Dual Dipole Kit, Typinski Square TFD

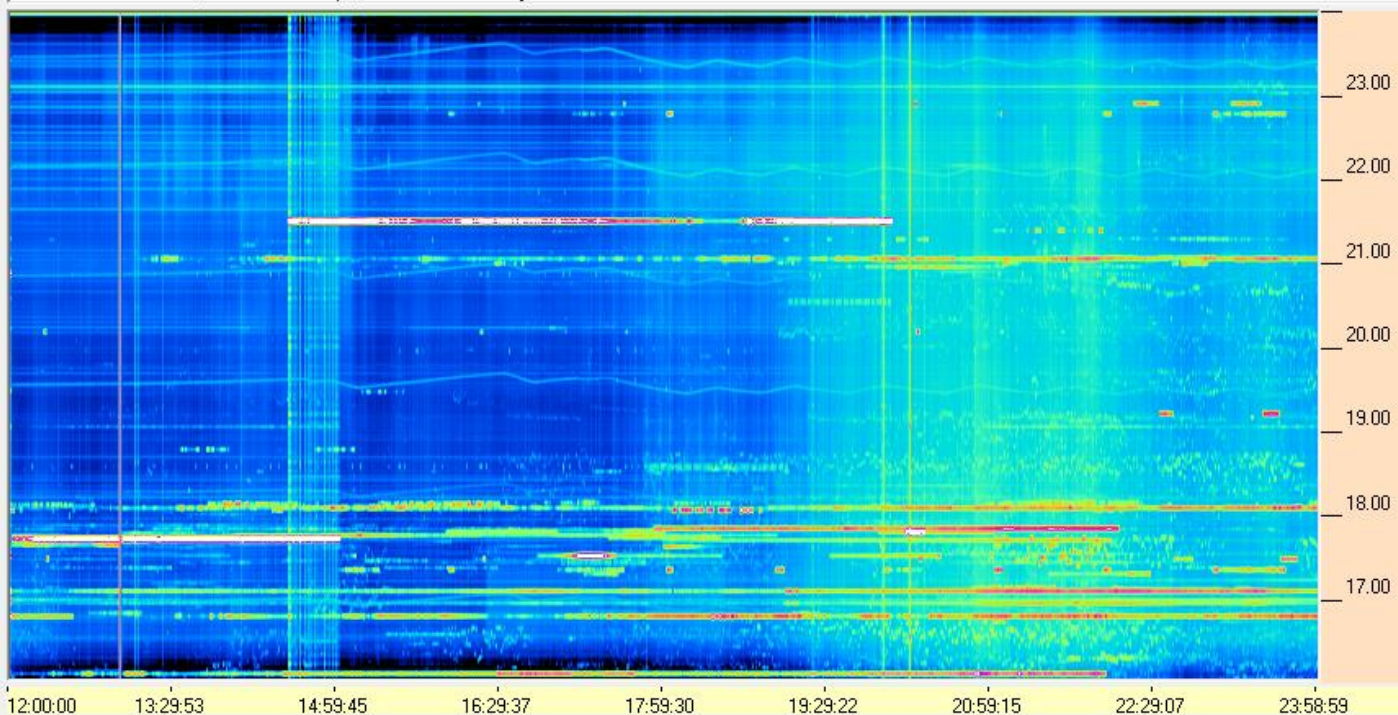


06/15/2018 K4LED SQ TFD SDRP2 Jasper, GA 2.8.50 SDRPlay2Pro RCP



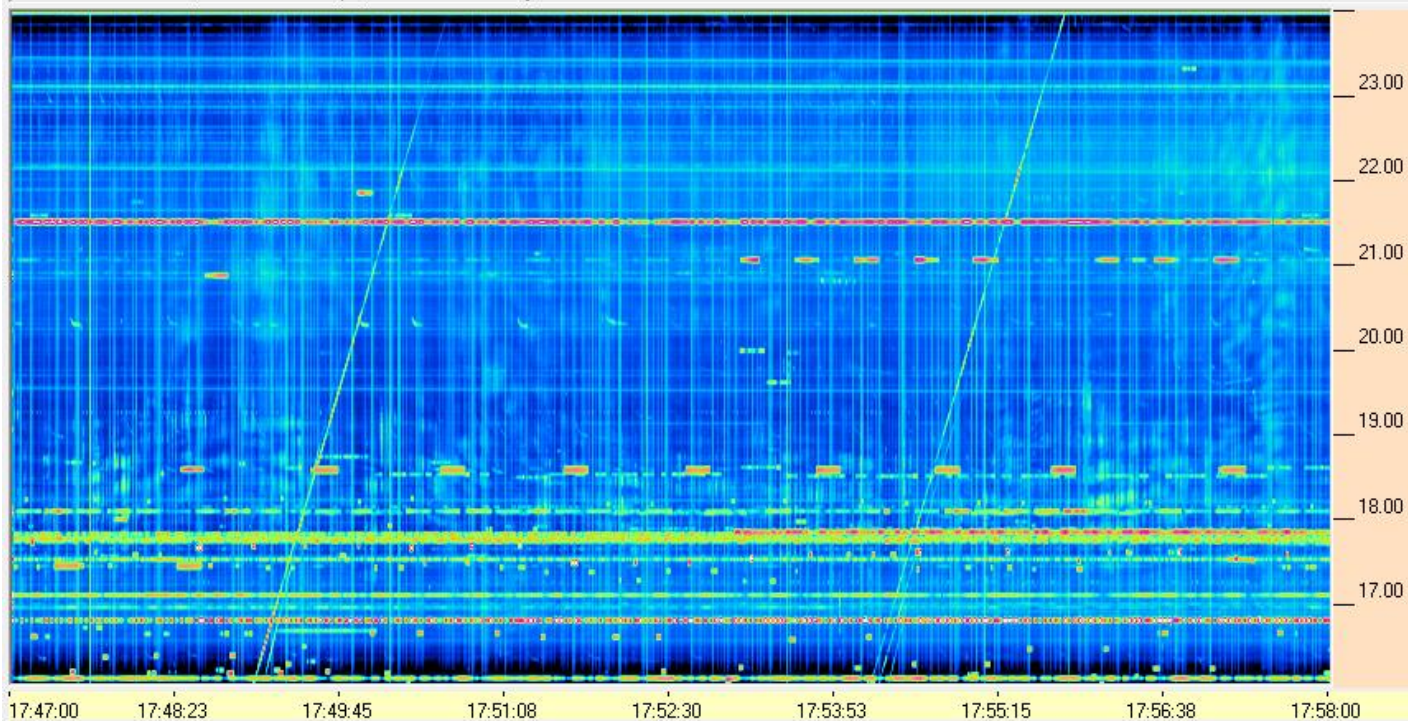
06/15/2018 K4LED SQ TFD SDRP2 Jasper, GA 2.8.50 SDRPlay2Pro RCP

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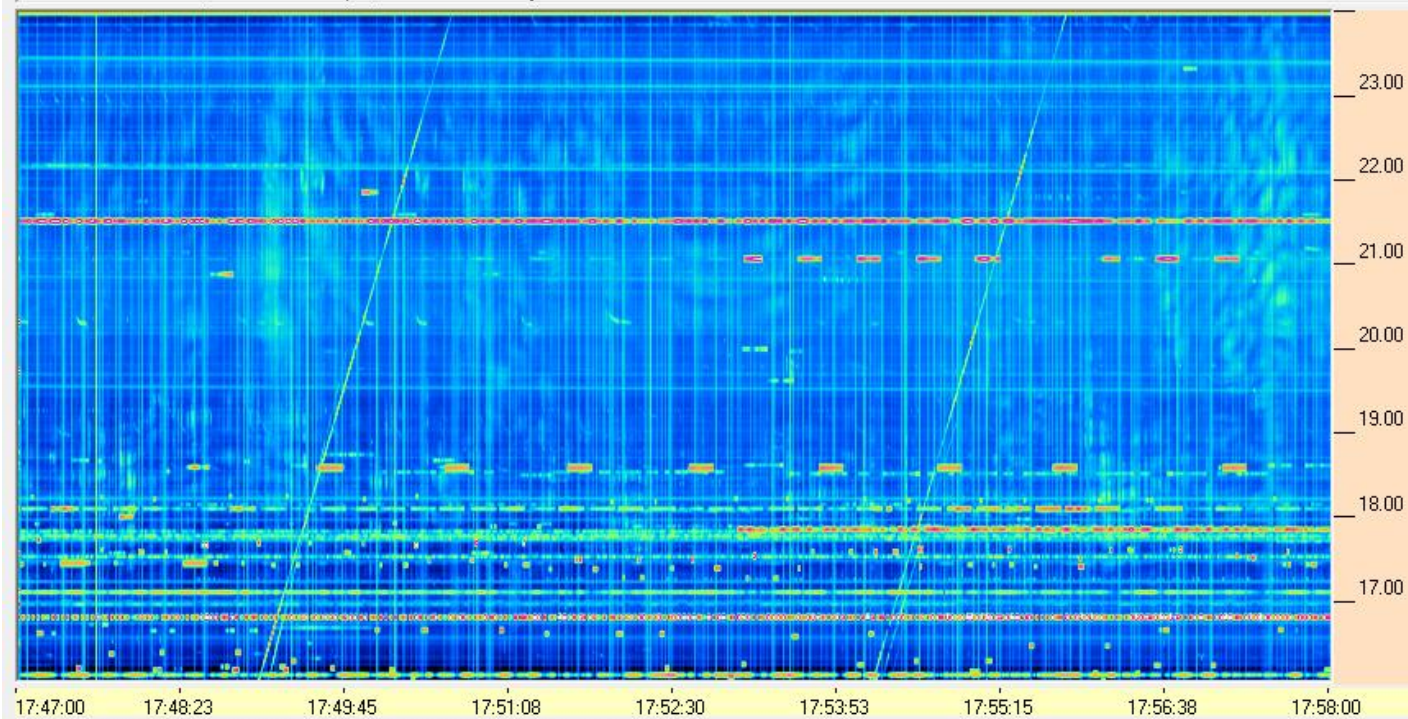
06/15/2018 K4LED SQ TFD SDRP2 Jasper, GA 2.8.50 SDRPlay2Pro RCP

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Station YYYY DAY DDD HHMMSS P1 FFS S AXN PPS IGA PS
Eglin AFB 2018 Jun15 166 174500 RSF 1 713 100 03+ 79

foF2	5.075
foF1	3.93
foF1p	4.55
foE	3.18
foEp	3.41
fxI	5.63
foEs	3.65
fmin	1.00
MUF(D)	18.52
M(D)	3.65
D	N/A
h`F	145.0
h`F2	350.0
h`E	91.4
h`Es	122.5
hmF2	204.0
hmF1	118.5
hmE	99.7
yF2	74.6
yF1	17.6
yE	9.5
B0	204.9
B1	1.01
C-level	22
Auto:	
Artist5	
500200	



D 100 200 400 600 800 1000 1500 3000 [km]
MUF 5.7 5.7 6.0 6.5 7.2 8.2 11.1 18.5 [MHz]
57362023.tmp / 440fx512h 25 kHz 2.5 km / DPS-4D EG931 084 / 30.5 N 273.5 E

ShowIonogram v 1.0

References for Interpreting the Ionogram:

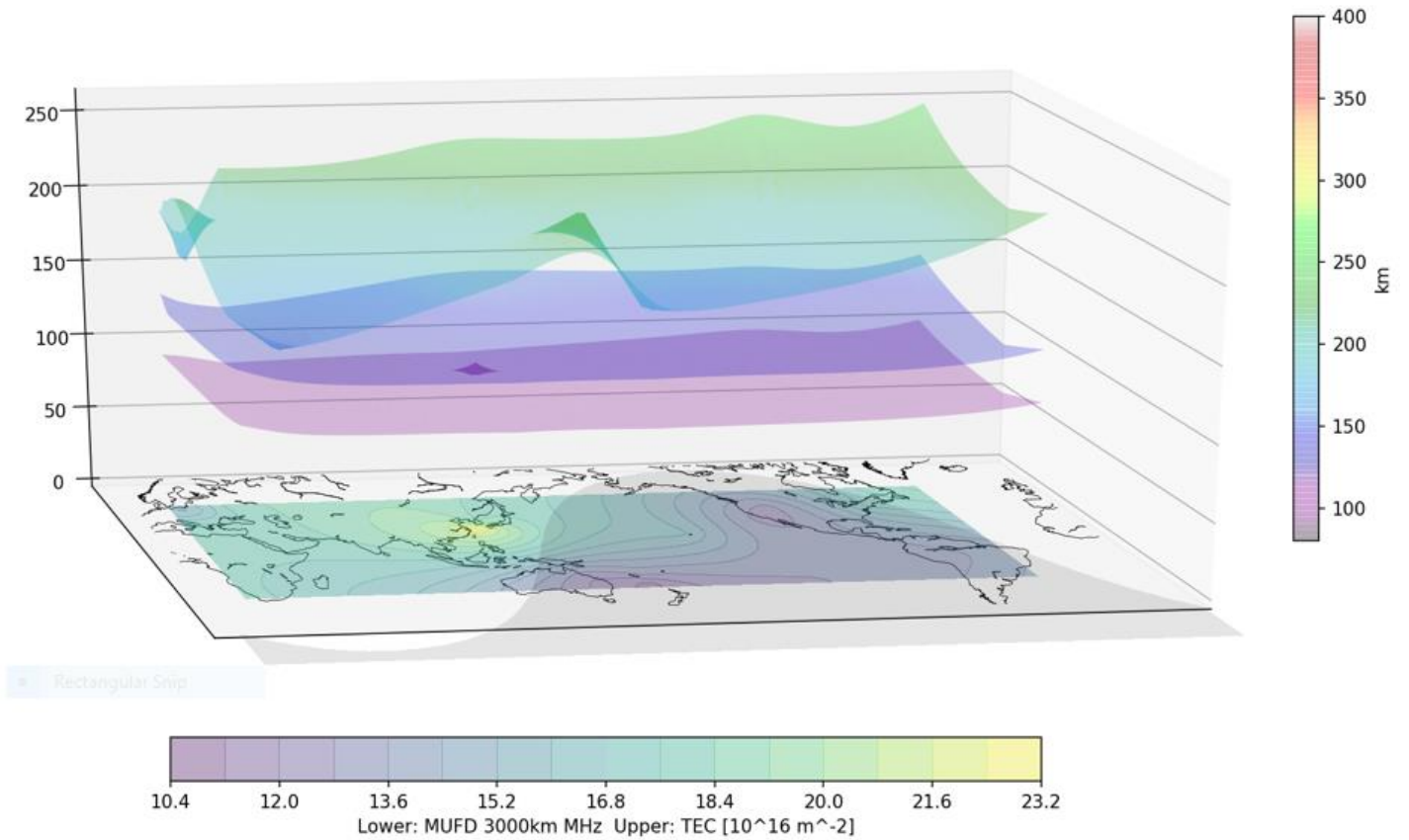
http://www.sws.bom.gov.au/IPSHosted/INAG/uag_23a/UAG_23A_indexed.pdf

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.404.5517&rep=rep1&type=pdf>

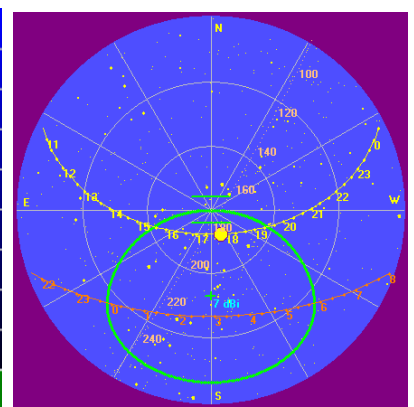
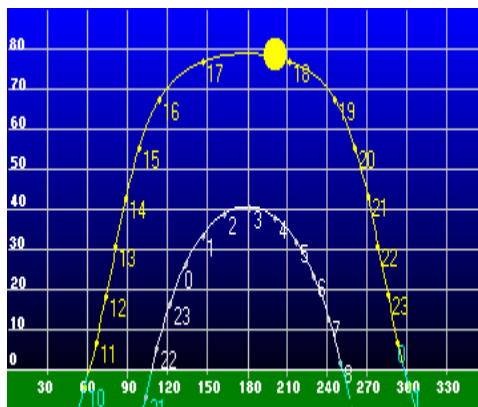
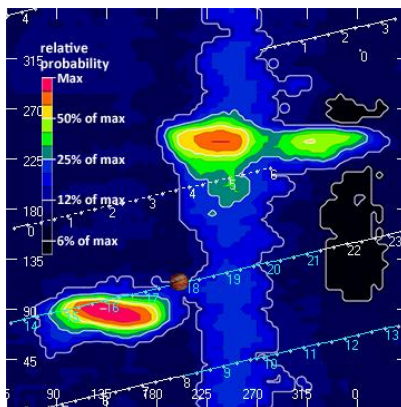
<https://www.hfunderground.com/wiki/index.php/Ionosonde>

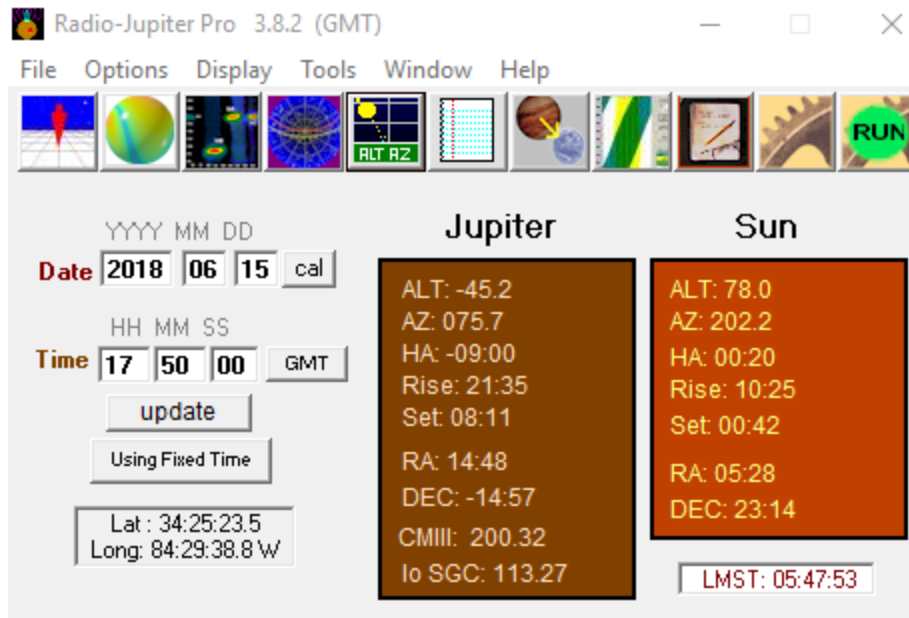
Ionosphere Layers, MUF, Total Electron Content

MUF TEC E, F1, F2 Max Height 2018-06-16 08:50

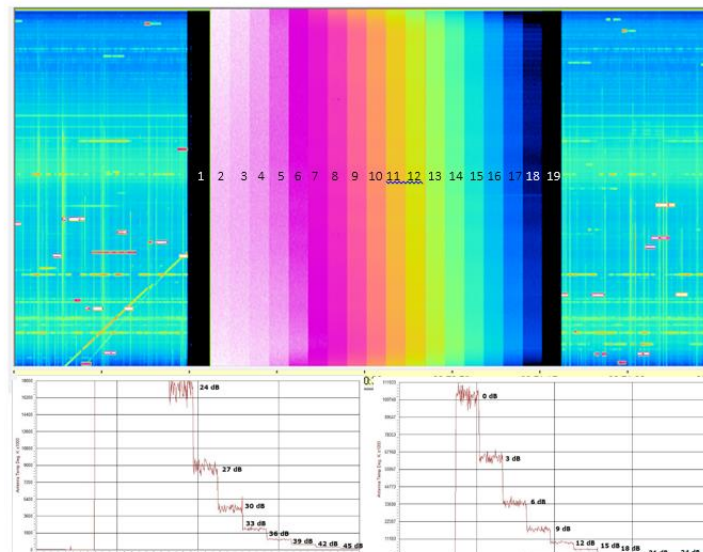


Data Global Ionospheric Radio Observatory (GIRO) Principal Investigator Prof. B. W. Reinisch UMass Lowell





AUTOMATED CALIBRATION COLOR BAR TEST PATTERN AND DATA
ACTUAL MEASURED DATA



STEP	TEMPERATURE	ATTENUATION
1	>1 kK	101 dB
2	104.0 MK	0 dB
3	66.9 MK	3 dB
4	36.3 MK	6 dB
5	19.1 MK	9 dB
6	9.6 MK	12 dB
7	4.5 MK	15 dB
8	2.3 MK	18 dB
9	1.2 MK	21 dB
10	602.0 kK	24 dB
11	296.6 kK	27 dB
12	133.0 kK	30 dB
13	92.2 kK	33 dB
14	51.6 kK	36 dB
15	32.0 kK	39 dB
16	22.6 kK	42 dB
17	17.9 kK	45 dB
18	12.0 kK	48 dB
19	>1 kK	101 dB