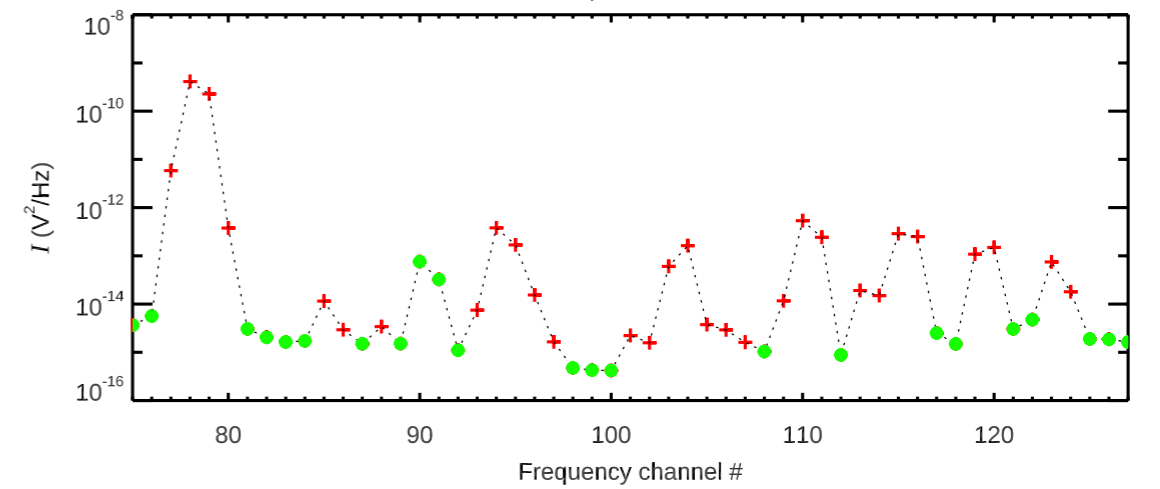
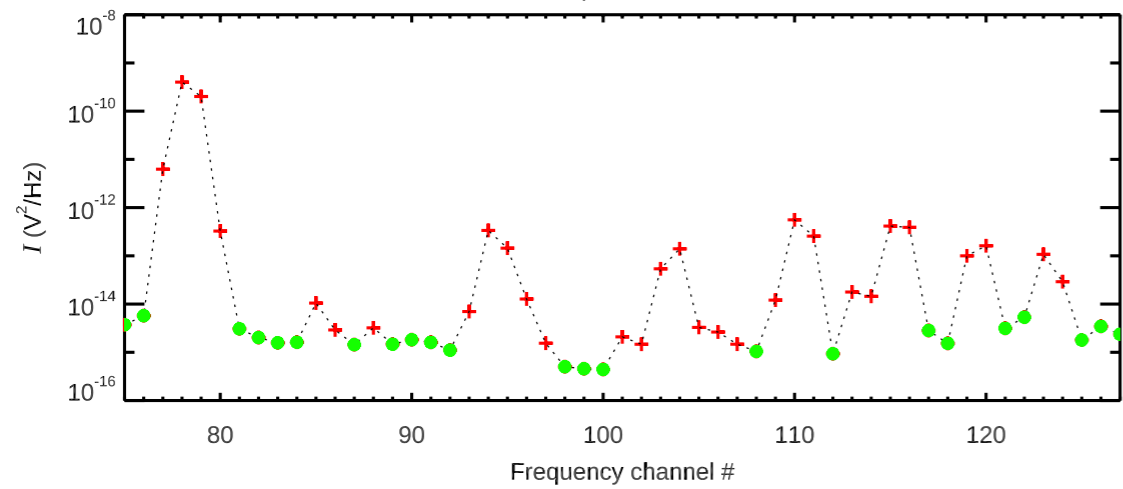
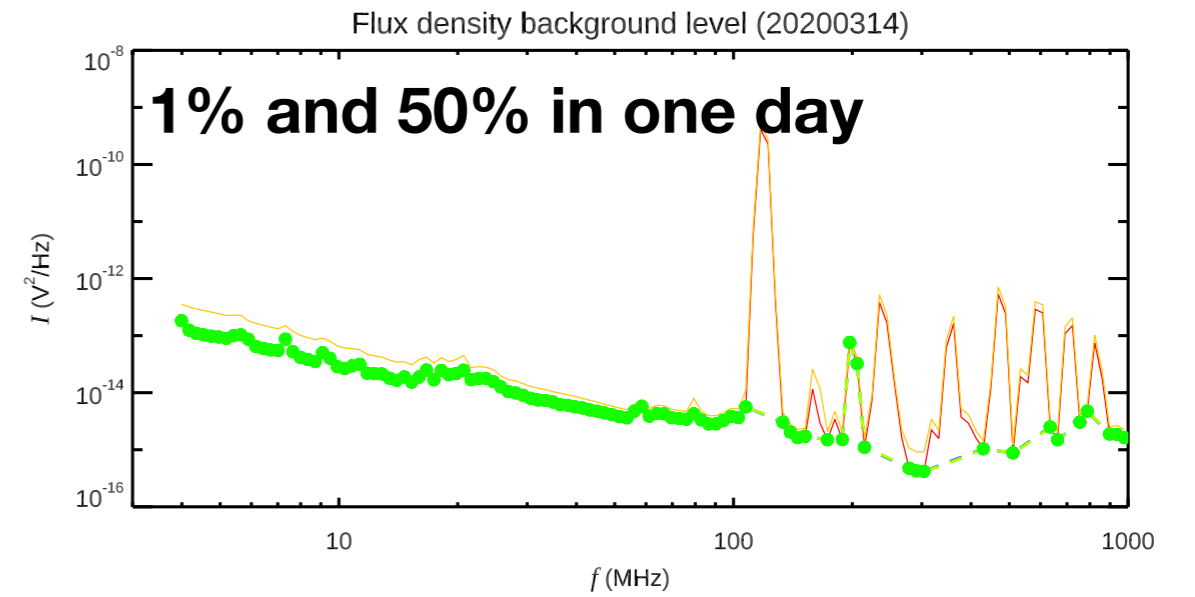
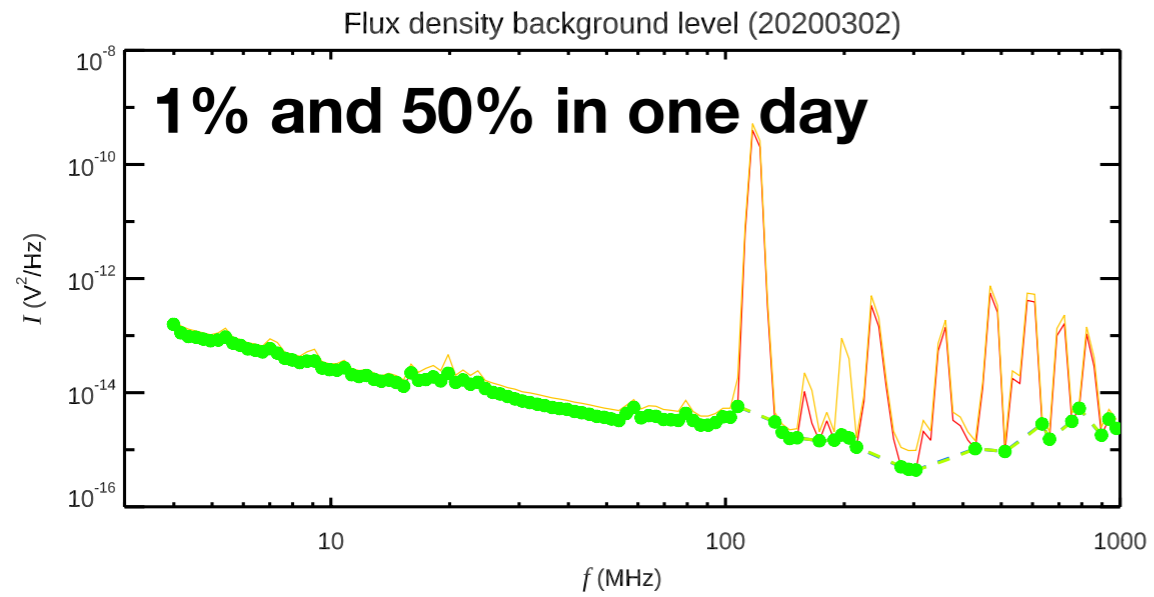
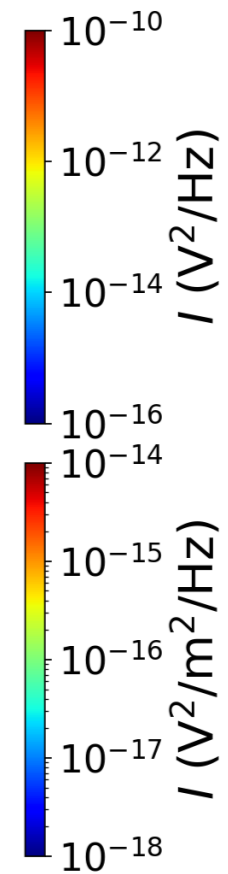
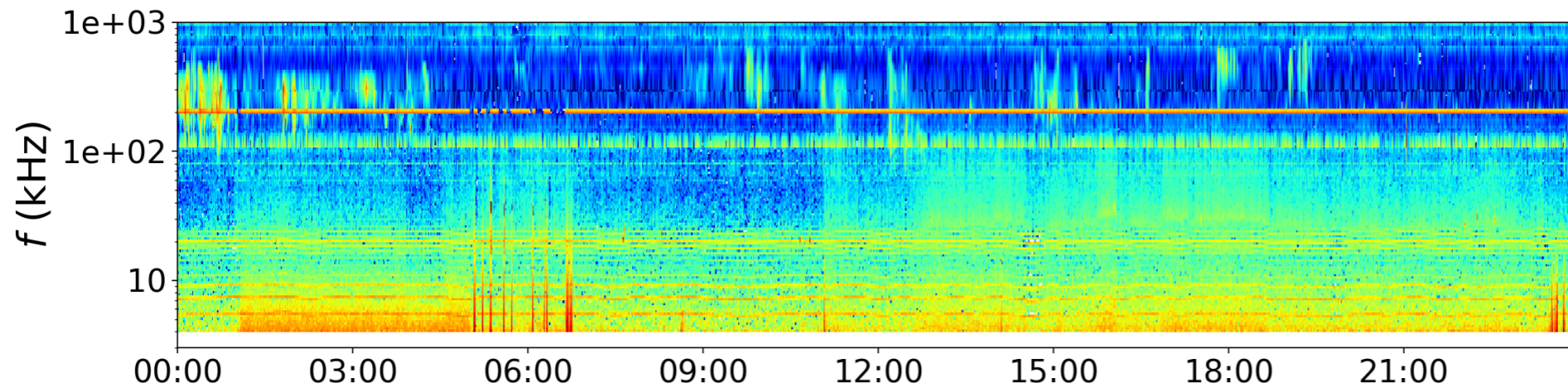
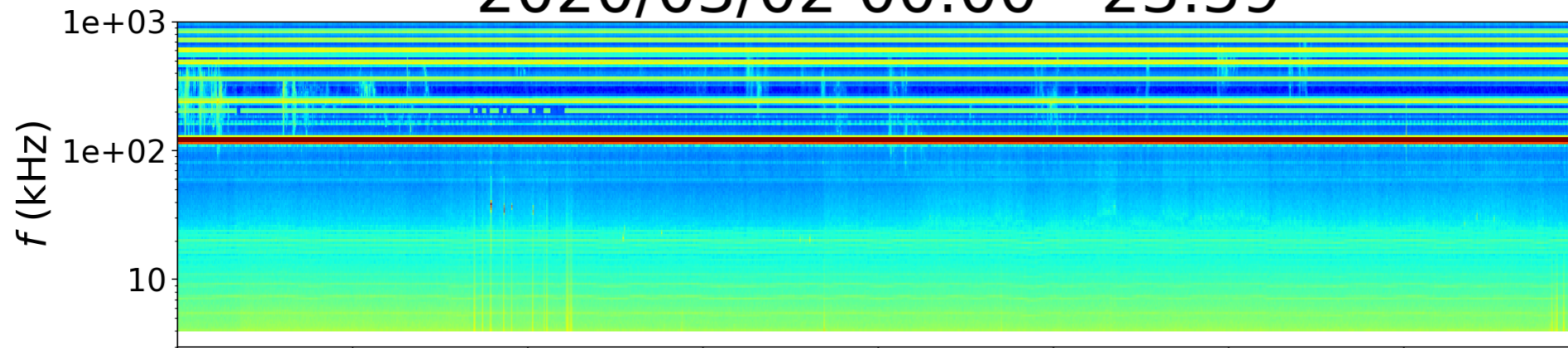


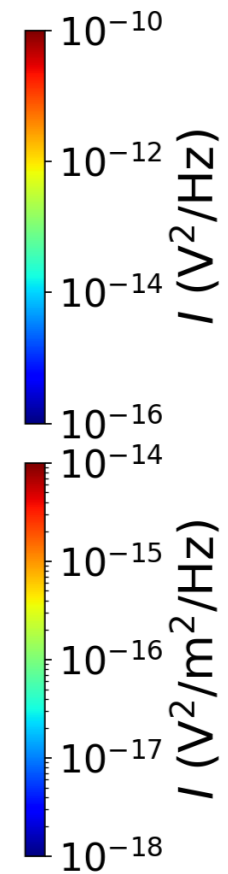
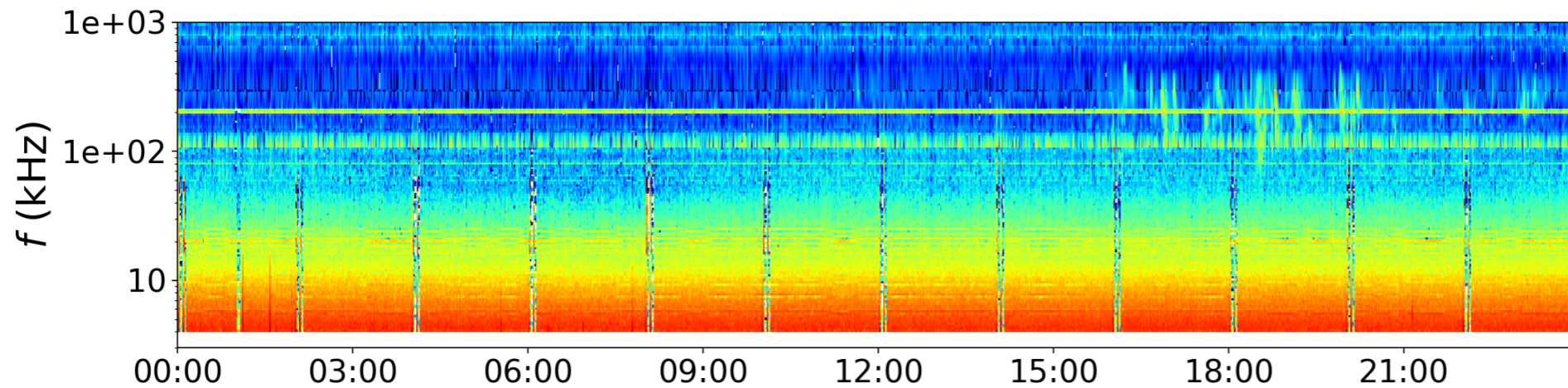
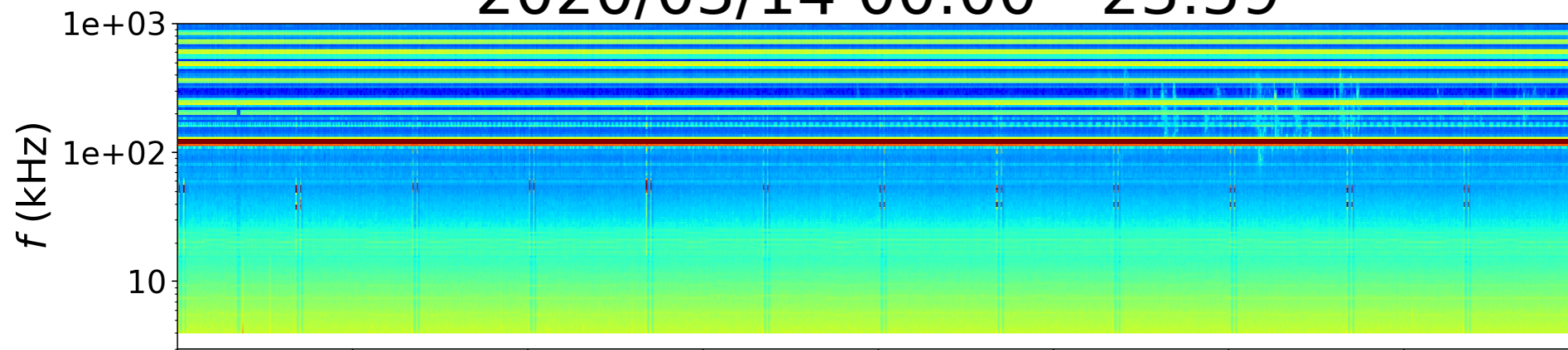
TNR Noise Removal

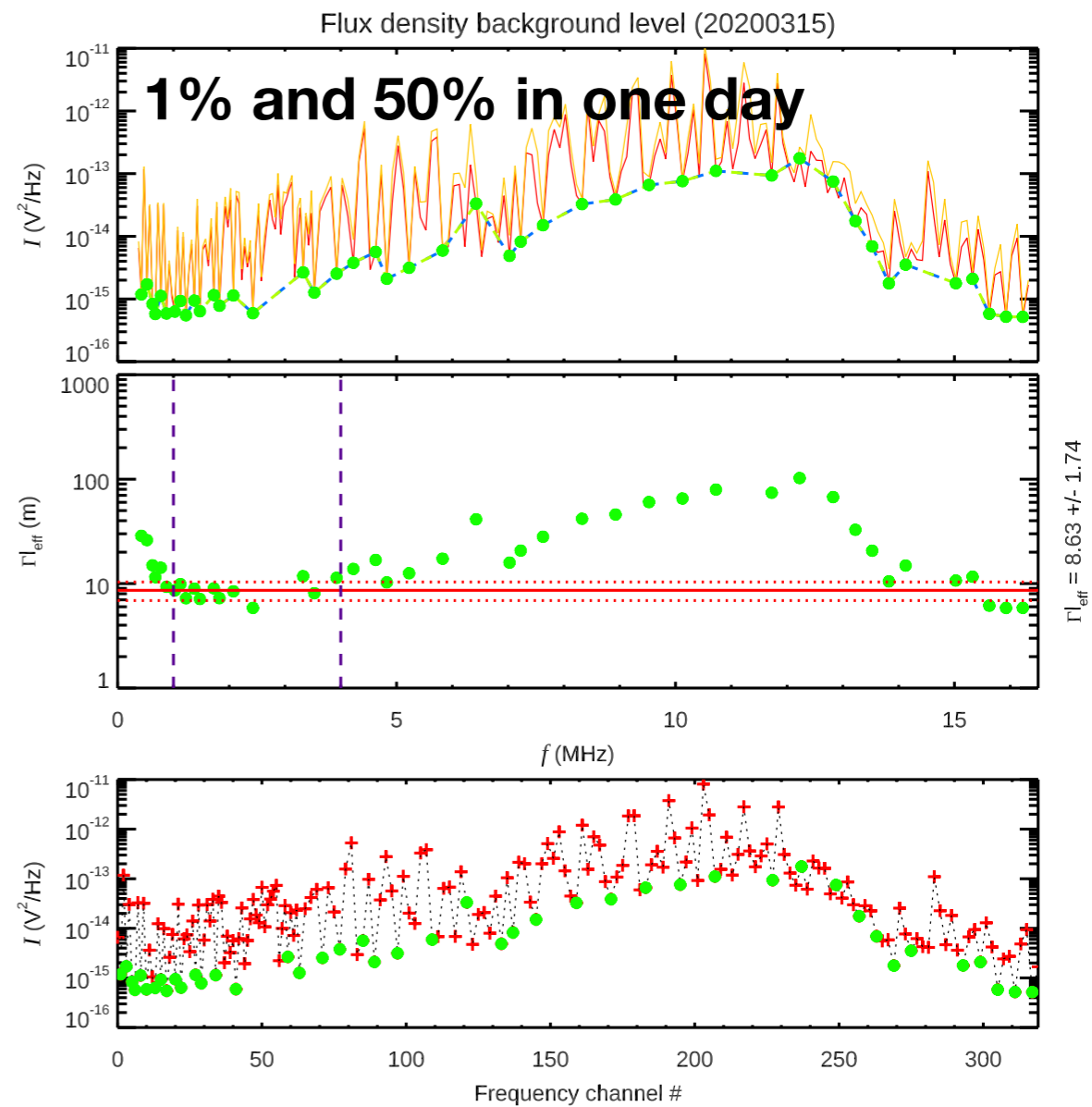
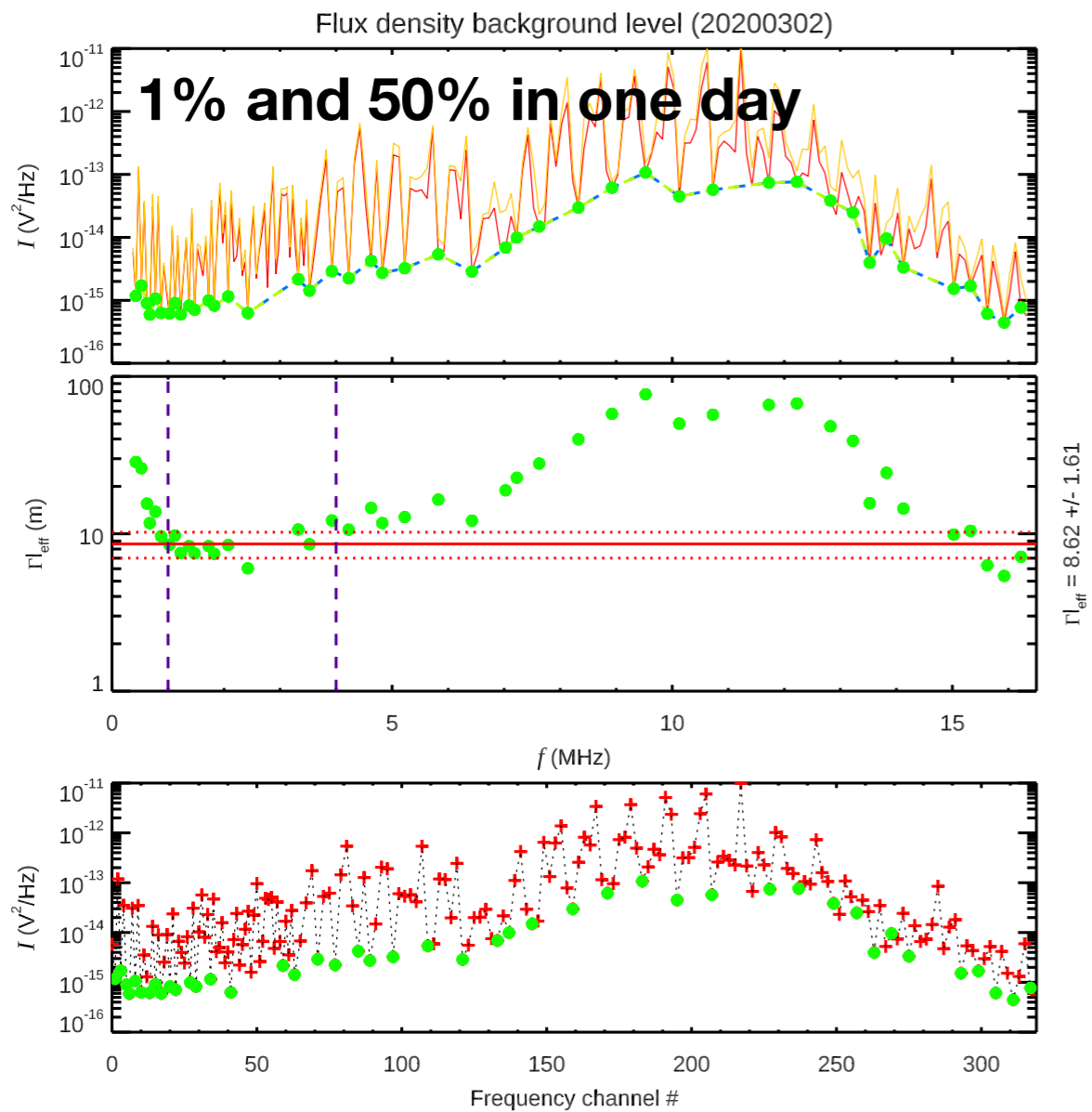


2020/03/02 00:00 - 23:59



2020/03/14 00:00 - 23:59





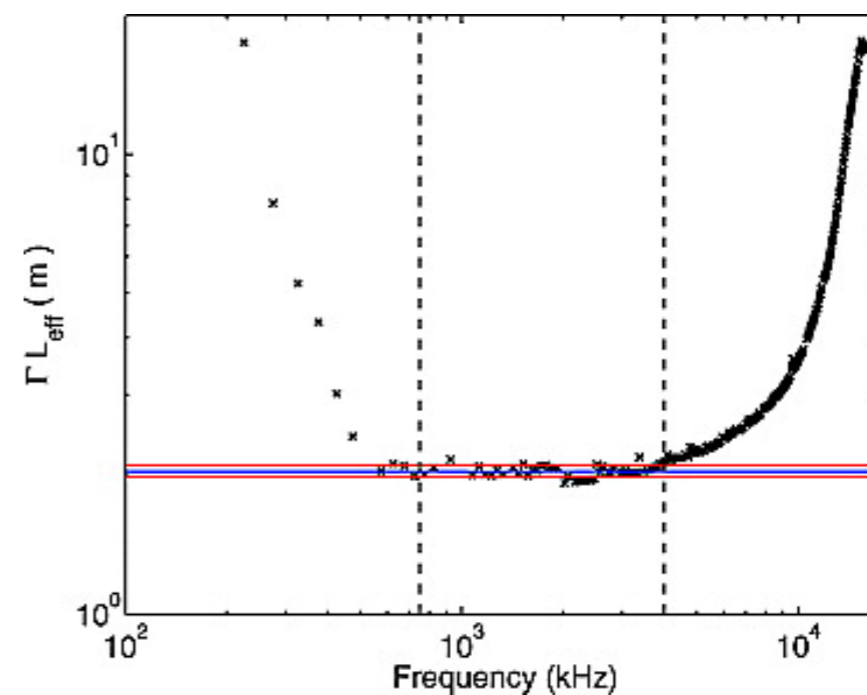
Zaslavsky et al. (2011)

$$\Gamma L_{\text{eff}} = \left(\frac{3}{4\pi Z_0} \frac{V_r^2 - V_{\text{noise}}^2 - \Gamma^2 V_{\text{QTN}}^2}{B_{\text{model}}} \right)^{1/2}. \quad (13)$$

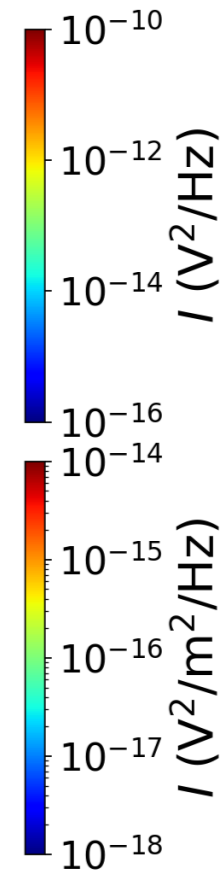
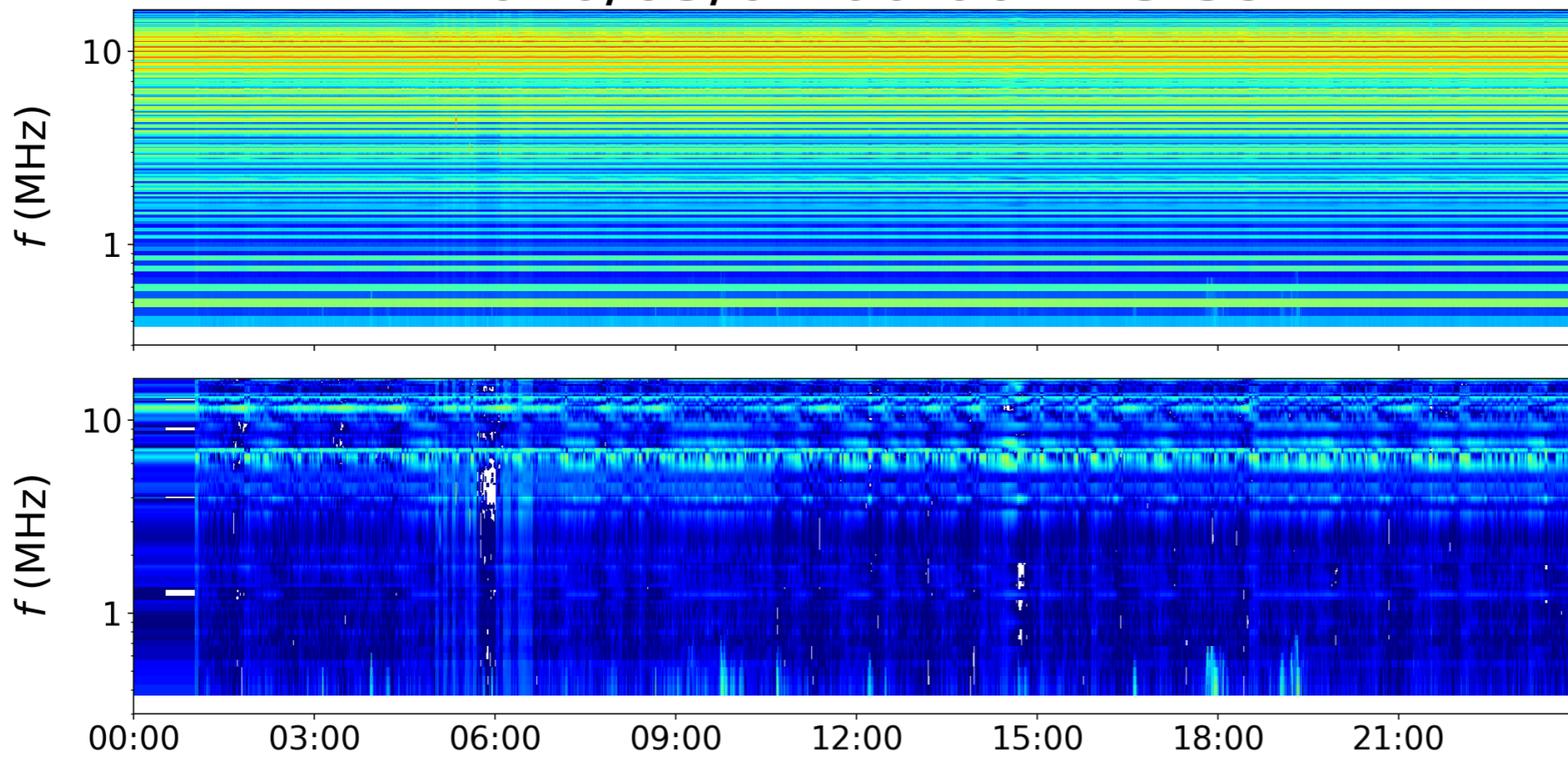
Use only good channels

Interpolate signal in bad ones in log scale:

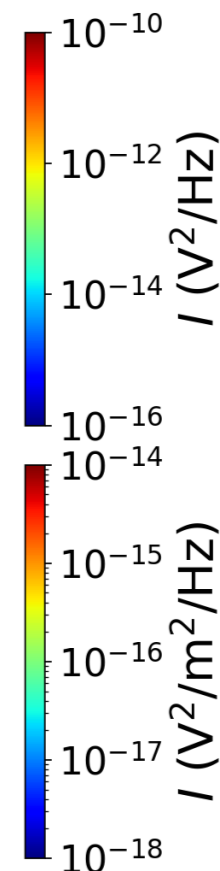
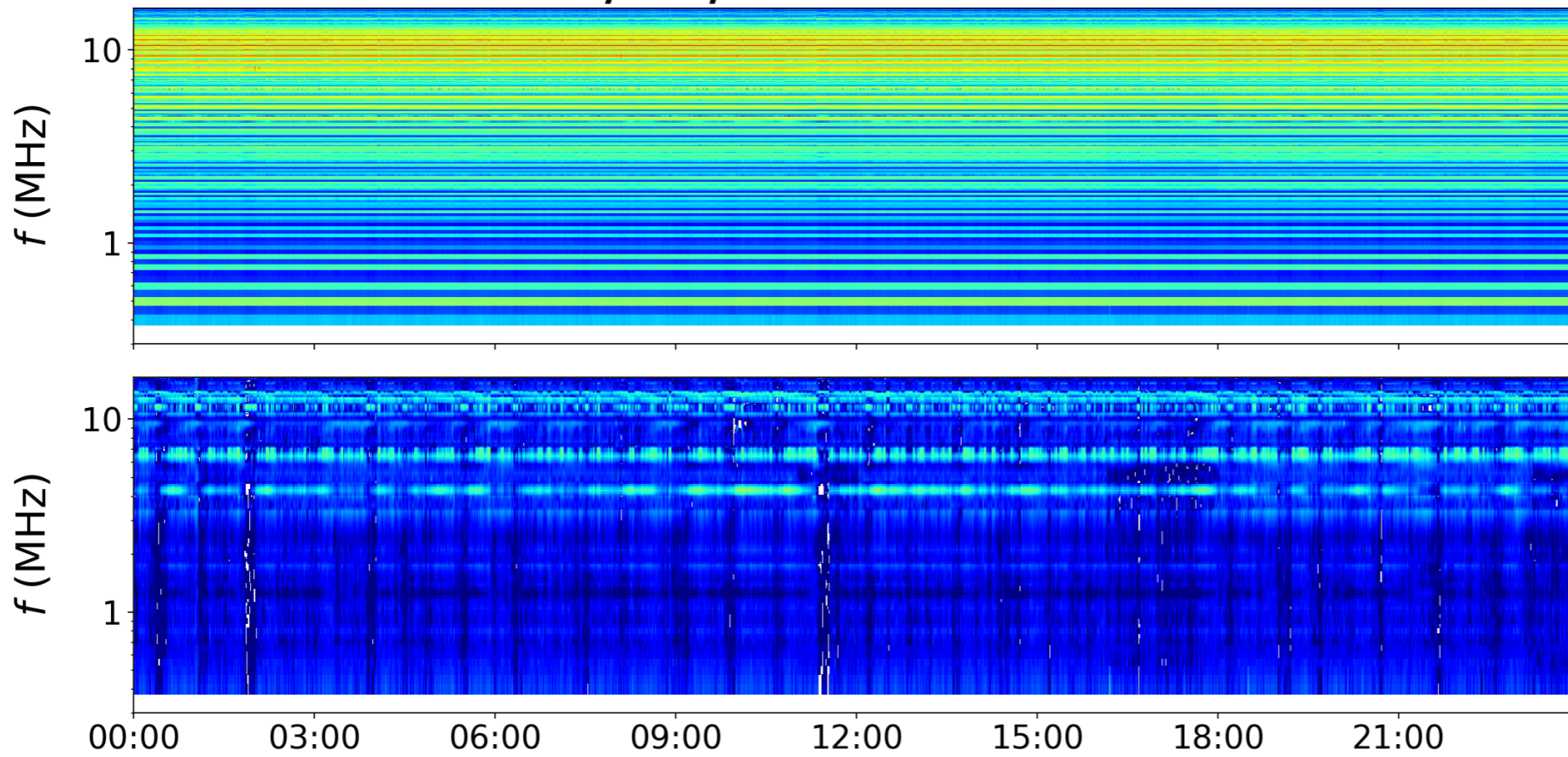
```
for i=0L,nsweep-1 do begin
  auto(i,*)=exp(interpol(alog(auto(i,good_frq_i)),good_frq,frq))
endfor
```



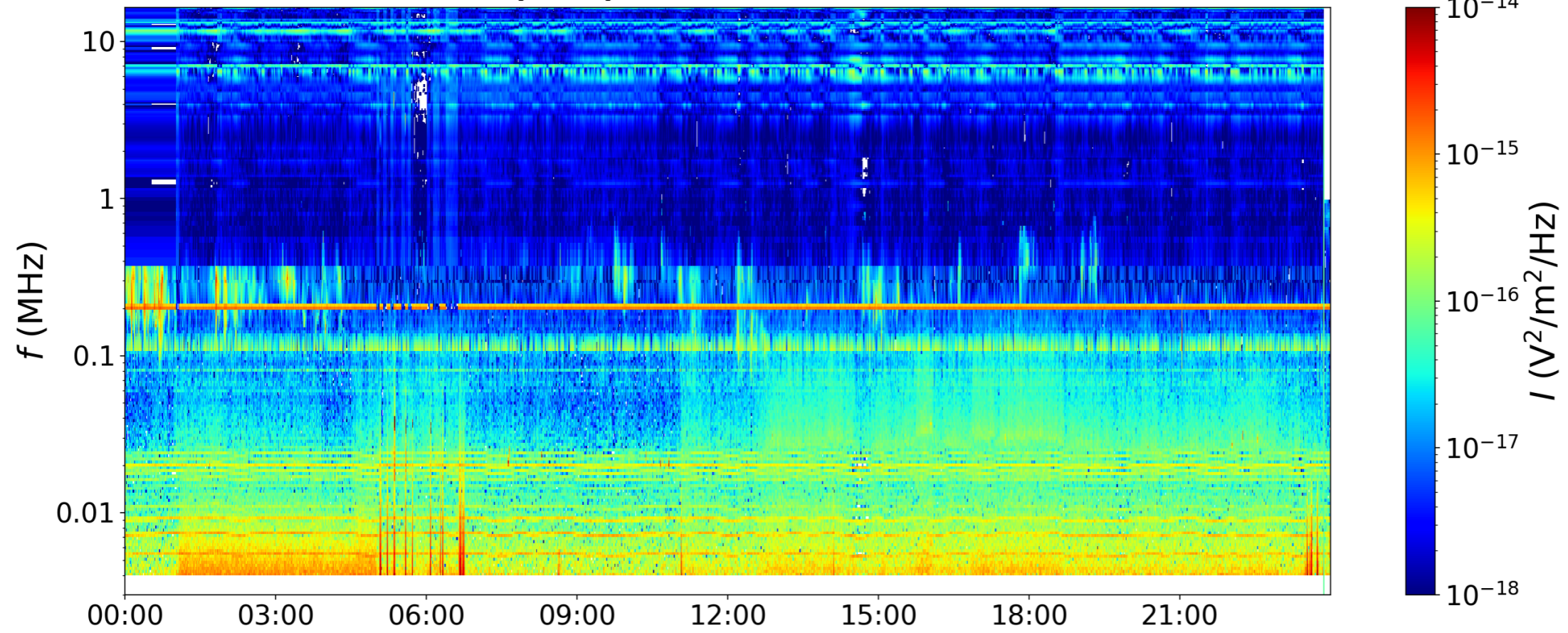
2020/03/02 00:00 - 23:59



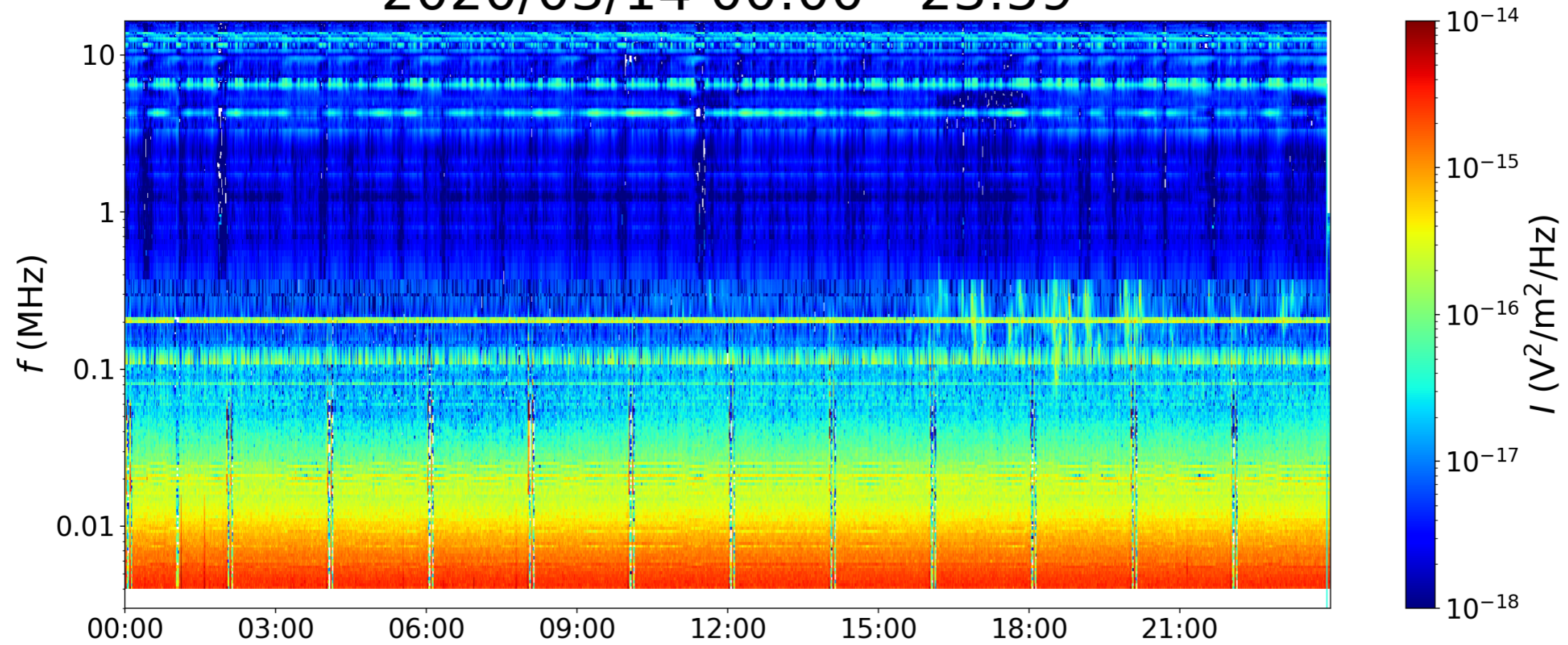
2020/03/14 00:00 - 23:59



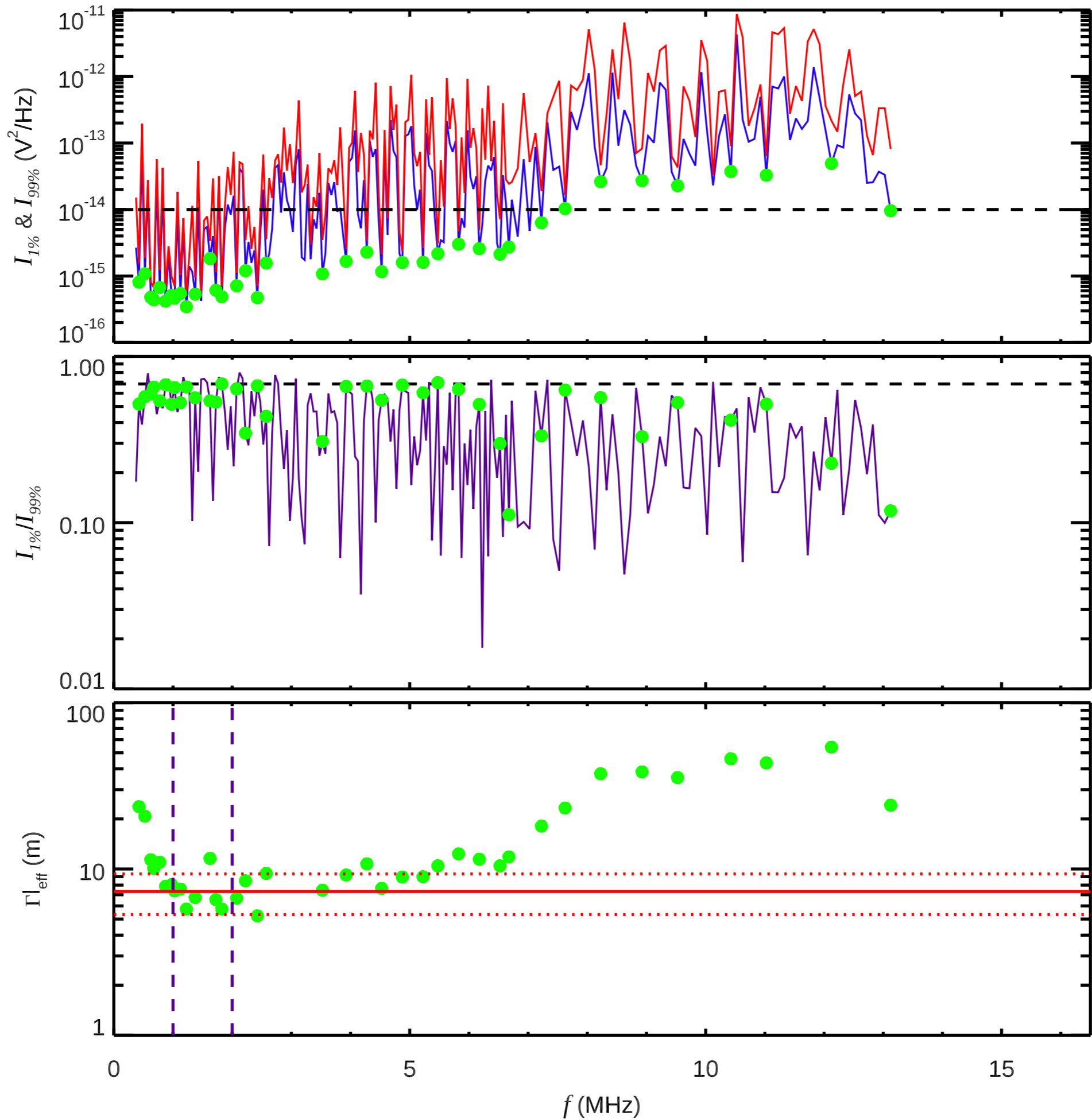
2020/03/02 00:00 - 23:59



2020/03/14 00:00 - 23:59

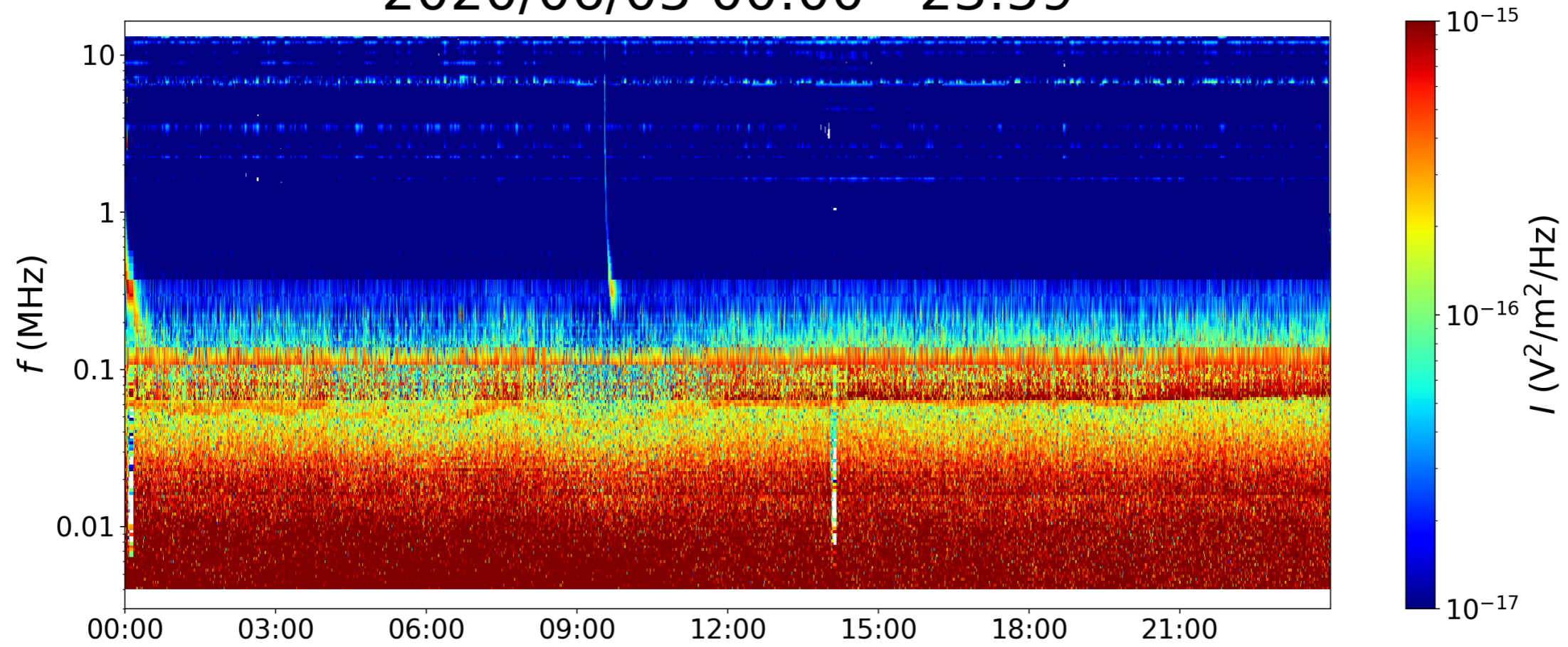


Flux density background level (20200605)

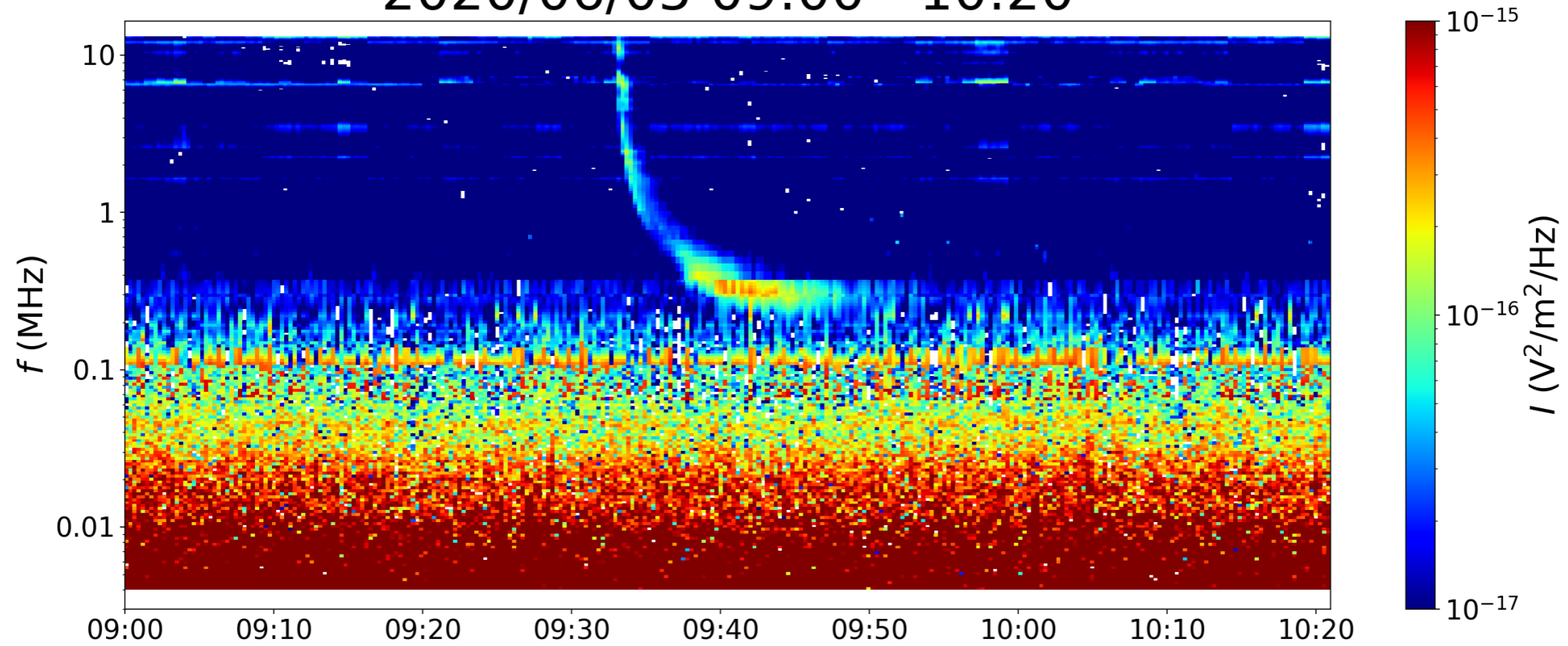


$\Gamma|_{\text{eff}} = 7.33 \pm 2.01$

2020/06/05 00:00 - 23:59



2020/06/05 09:00 - 10:20



Conclusion

- There is a way how to remove majority of interferences, but it requires manual identification
- As the HFR/TNR level 2 data on ROC are dubious, it makes no sense to do it before they are fixed
- I suggest to deliver to public the level 2.5 data without interferences and in 2D array format compatible with TPLOT routines in December 2020