Additional Correlation From Boulder Ionosonde Records to GOES-17 and Grape Data Records for October 28, 2021 Solar Flare

Steve Cerwin

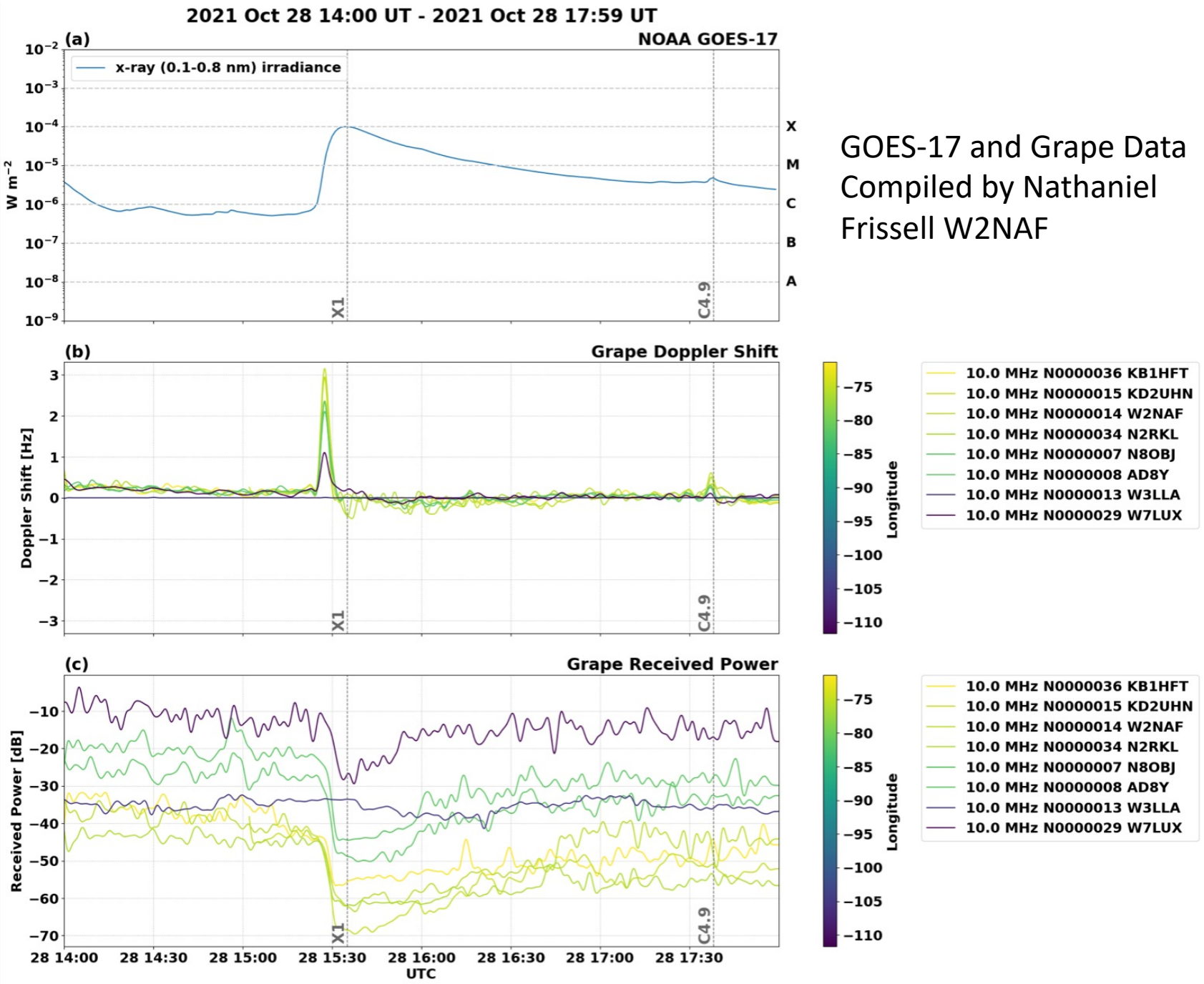
August 14, 2022

HamSCI

X1 Flare Data from NOAA GOES-17 Satellite

GRAPE Doppler Data

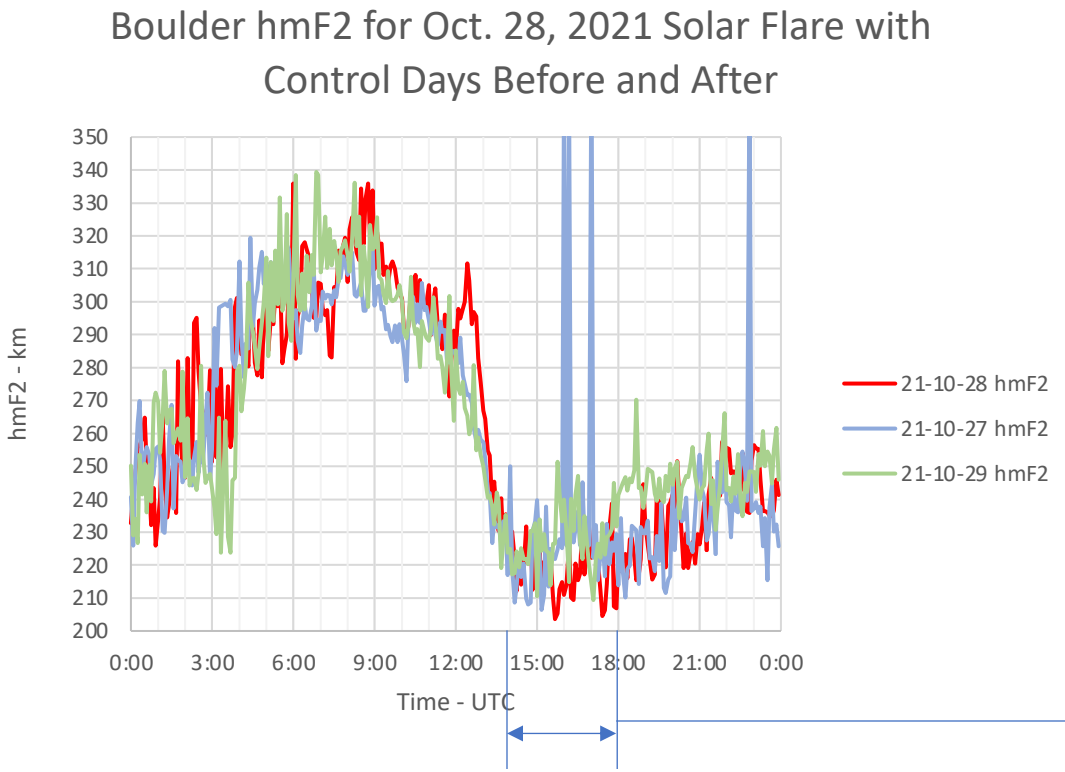
GRAPE Amplitude Data



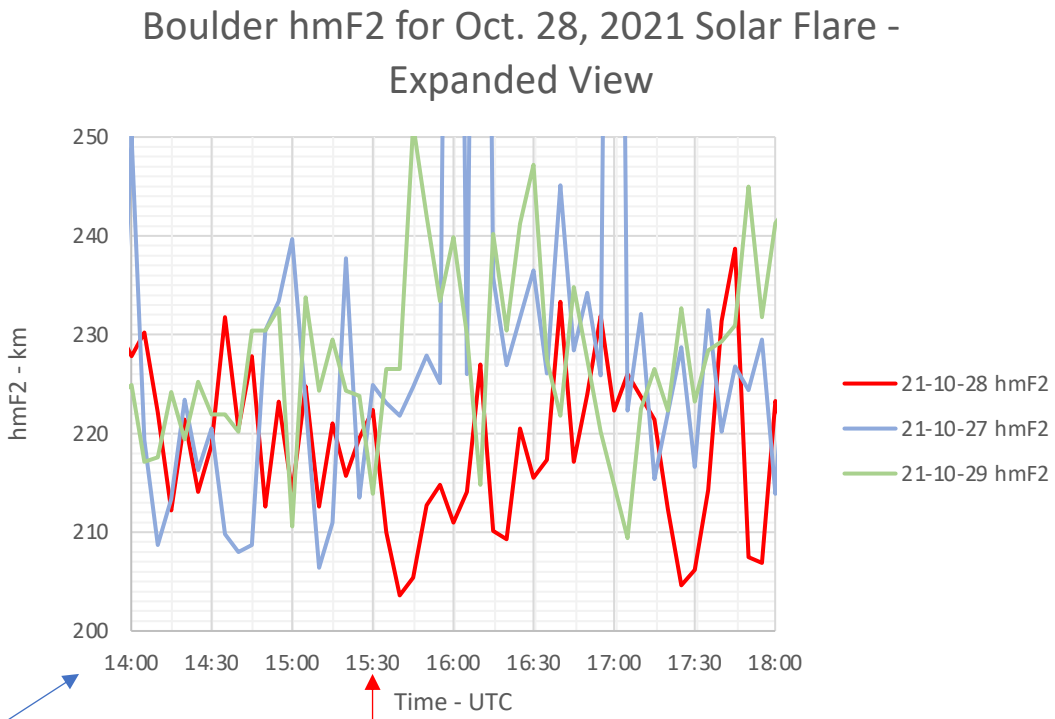
GOES-17 and Grape Data Compiled by Nathaniel Frissell W2NAF

Boulder Ionosonde Records Show a Momentary Lowering of hmF2 at Time of Flare Arrival Compared to Before and After Control Days

24-hour record



4-hour Expanded View



Flare Arrival