cell modem interference

It has been pretty obvious from the plots that the sonic diagnostic flag is worse during the time periods when the data are being "rsync"d back to Boulder. This is only for the CSAT3, not the CSAT3A/EC150. When I plot the high-rate data, I even find data gaps – 12s for one period I looked at. Even during non-rsync times, there are continuous non-zero ldiag values. These should be pretty close to zero all the time.

I suspect that the CSAT3s are picking up RF interference from the cell phones. If it hasn't been done already, we should play with grounding the heads and boxes (after checking to see if the mechanical connections already do this). Andy knows the drill all too well.

If this persists, it isn't a huge problem, since bad samples should be rejected by software, but it would be nice to fix if we can.