

Mote Near - Far xbee reset rates and 'hb'

10/18/13 ~17:30Z

Near: Soil Mote xbee reset rate was still at $xr=3600$ (hourly). I thought i'd changed all of them to $xr=0$ on 10/14, but the 'eeupdate' must not have been received by this mote. The other 2 were at $xr=0$. ID3(Soil) has been having outages of 1 hour and in the raw data files the comments show that every hour this mote was resetting the radio. Clearly some of those reset were causing lost sync. Meanwhile, the 'hb' command is still going at every 4 hours. This is a bit upside down in a sense: with $xr=0$ the 'hb' won't matter. Otherwise if we retain the 'hb' every 4 hours the xr should probably be $xr=21600$ (6hours). For now since they seem to be working with the resets turned off, let's leave them that way.

Far: Both motes have been working well. $xr=7200$ (2hours) and in the comments the radios are indeed being reset every 2 hours. Apparently these resets aren't causing lost sync. However, the 'hb' command is not only set at 4 hours (ie should be less than xr rate), but it also is being sent to the wrong serial port ttyS7 which is the power mote, not ttyS2 which is the soil/rad port. Since they have been working well I changed the xbee reset rate to $xr=0$ disabling it.