

There are many glitches making up the “fuzzy” range time from 07:00UTC 23rd November 2023. We identified glitches using ndscope to look at the DARM BLRMs OAF-RANGE_RPL channels and then used ldvw.ligo.caltech.edu Q-transform to plot the below omega scans from the glitches. Original troubleshooting in [alog 74377](#).

Below are the glitches seen between 07:00UTC and the lockloss at 10:10UTC. There are many more glitches than usual and lots of different types of glitches.













