

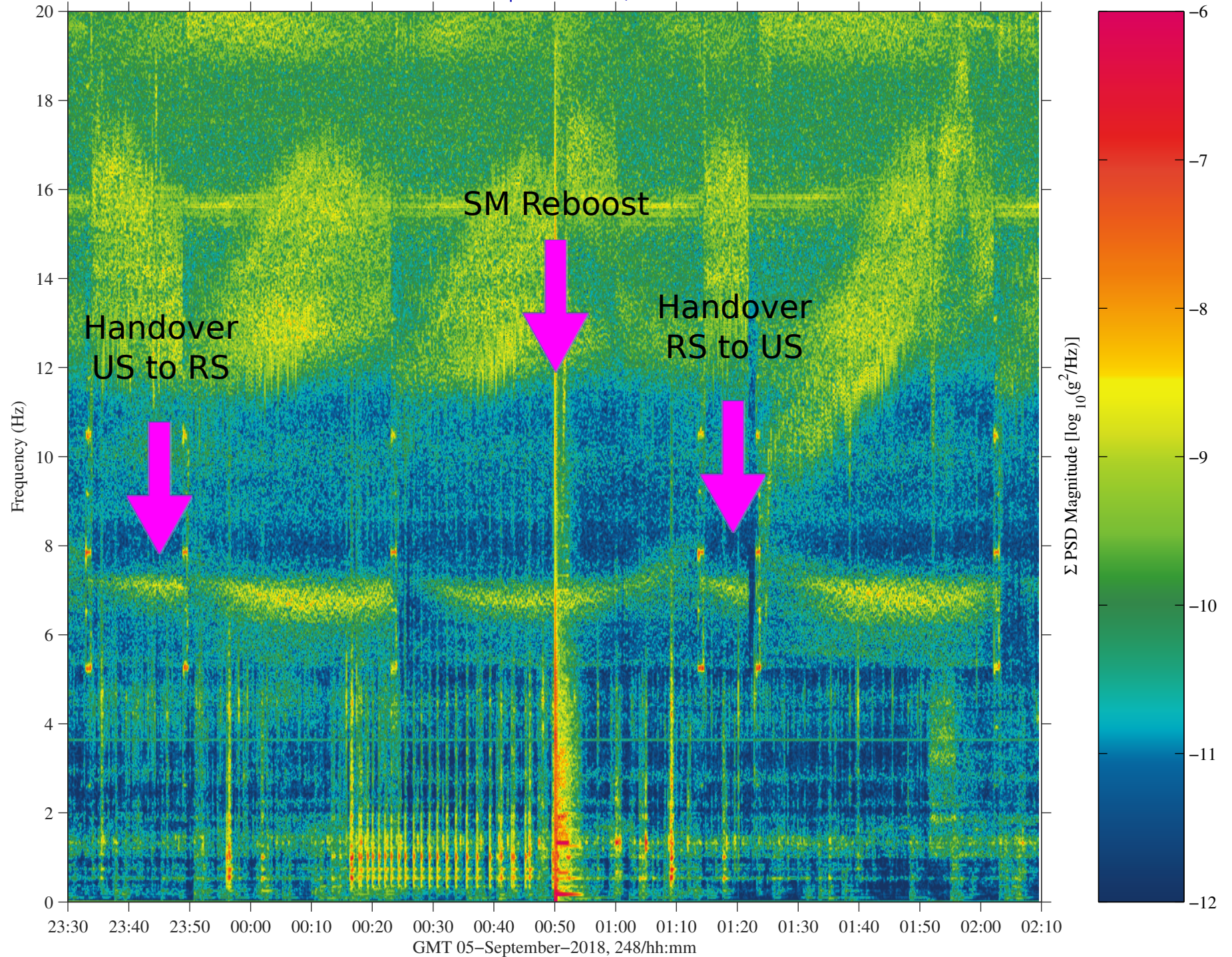
Zvezda Service Module (SM) Reboost

GMT 2018/249

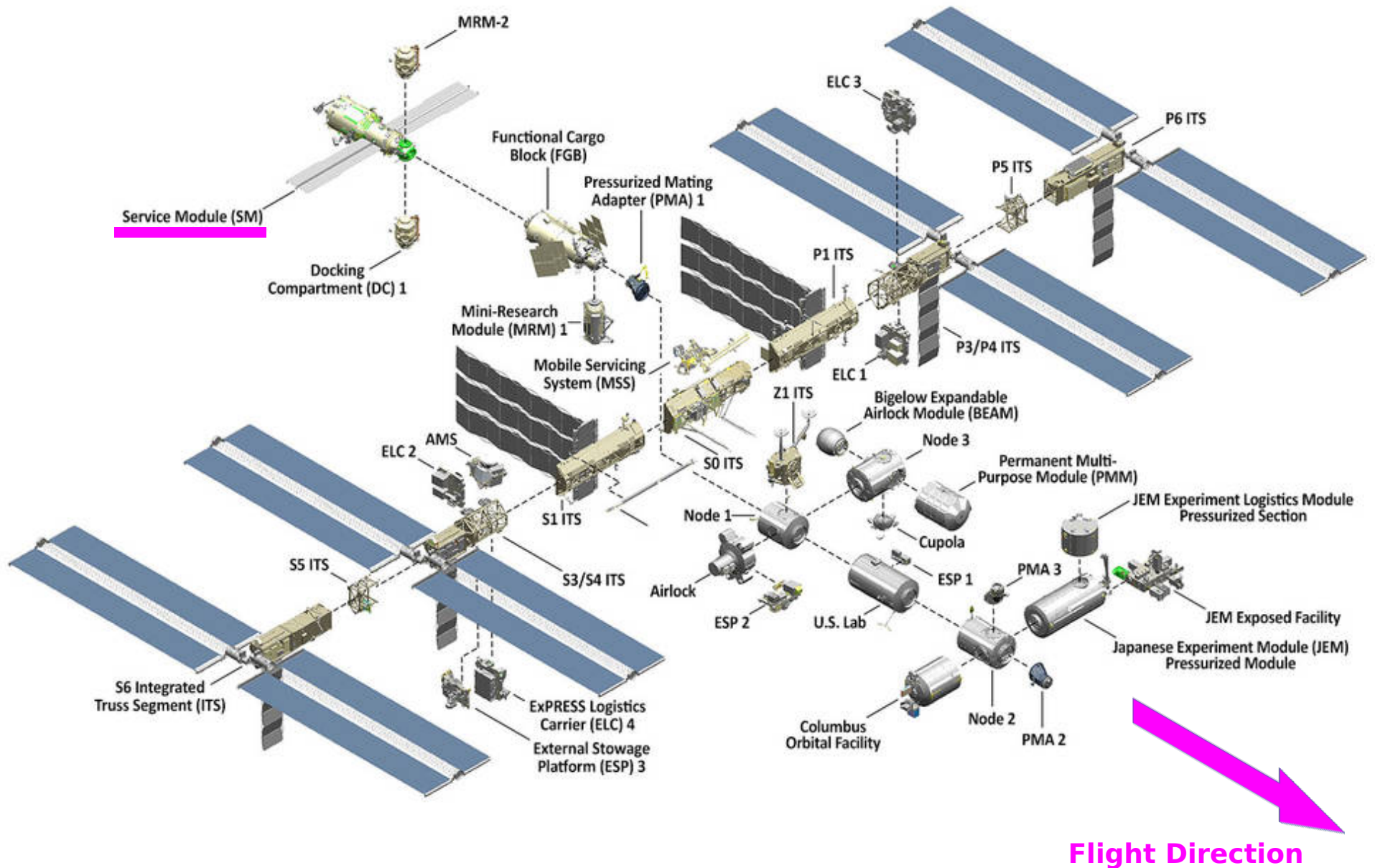
Thursday, Sept. 6, 2018

At GMT 249/00:50, it was time of ignition (TIG), for a Service Module reboost of the ISS. The event lasted just about 13 seconds and was recorded by 4 SAMS sensors simultaneously (3 in the US LAB and 1 in the Columbus Module).

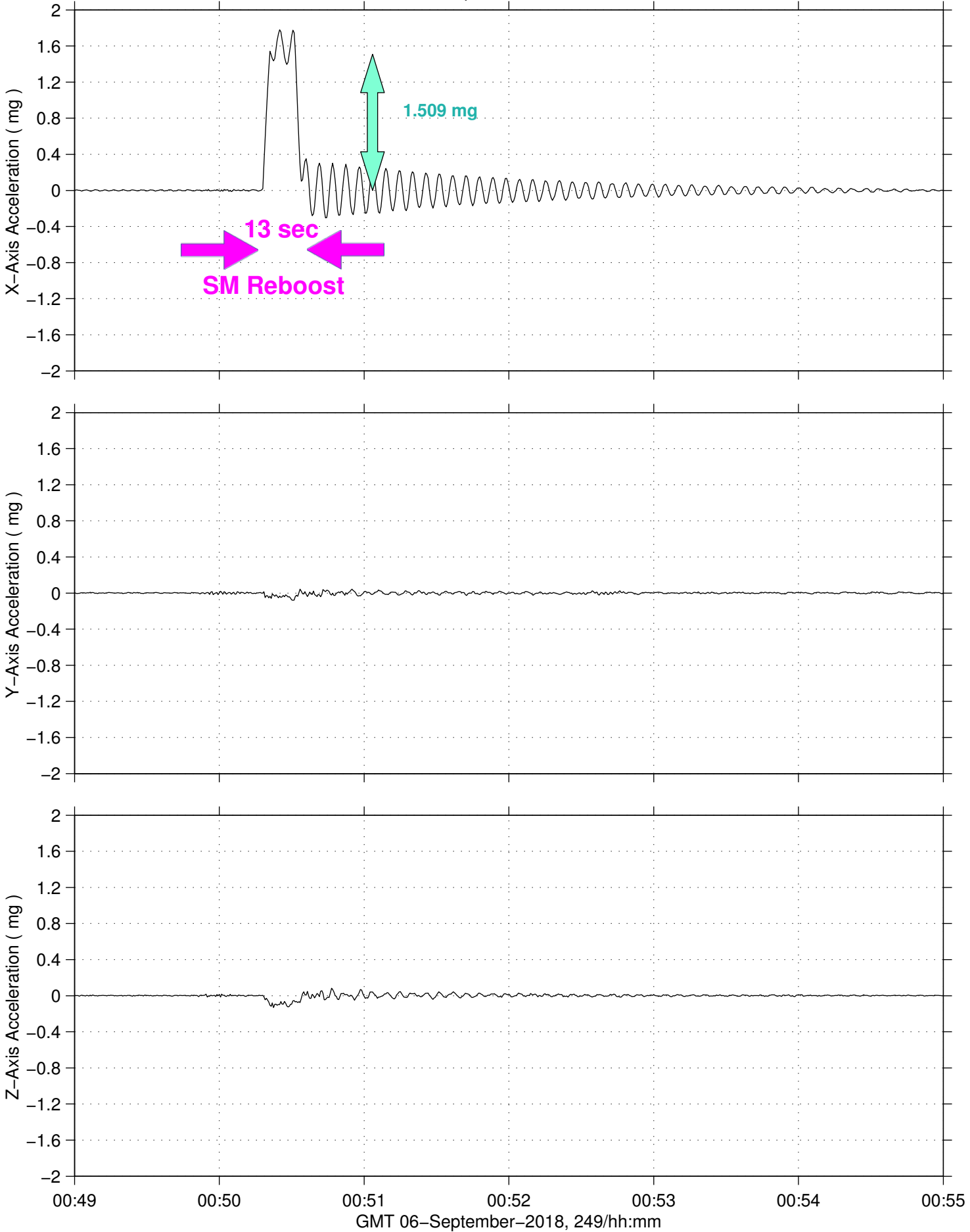
This reboost was the 2nd in a series of 3 burns to set up proper phasing for the Soyuz 54S landing to happen on October 4th and the Soyuz 56S launch on October 11th, which will be a four-orbit rendezvous. The ISS delta V was to be 0.2 meters/second as a result of this reboost.



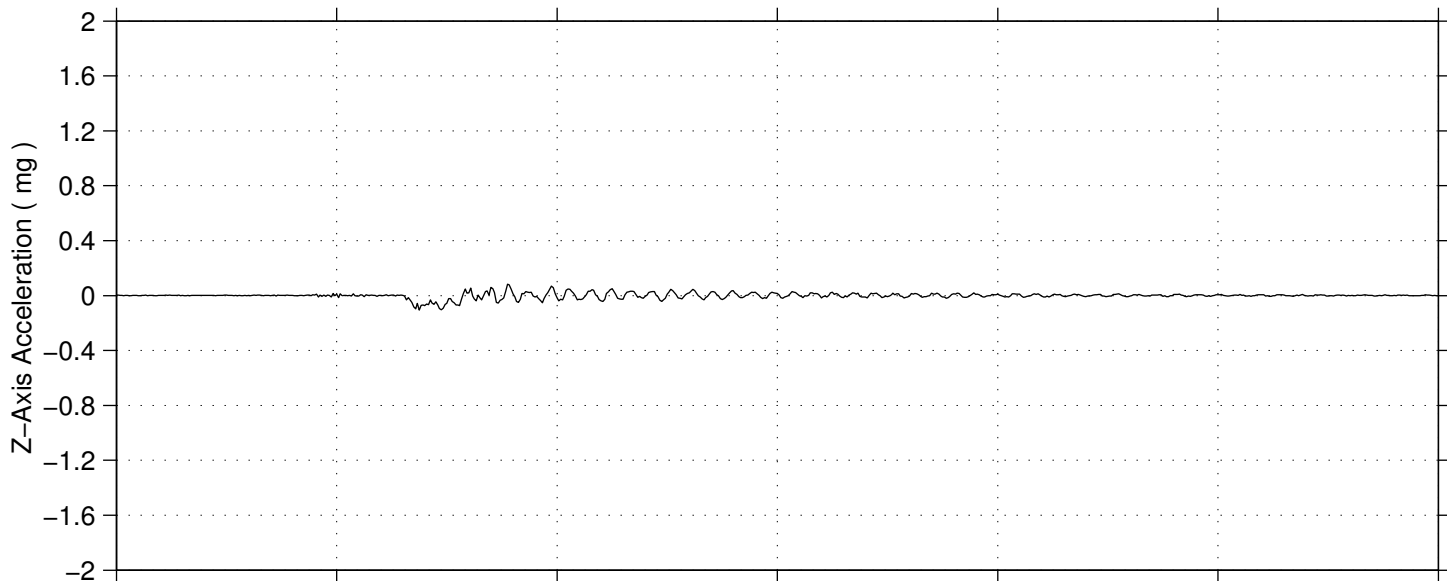
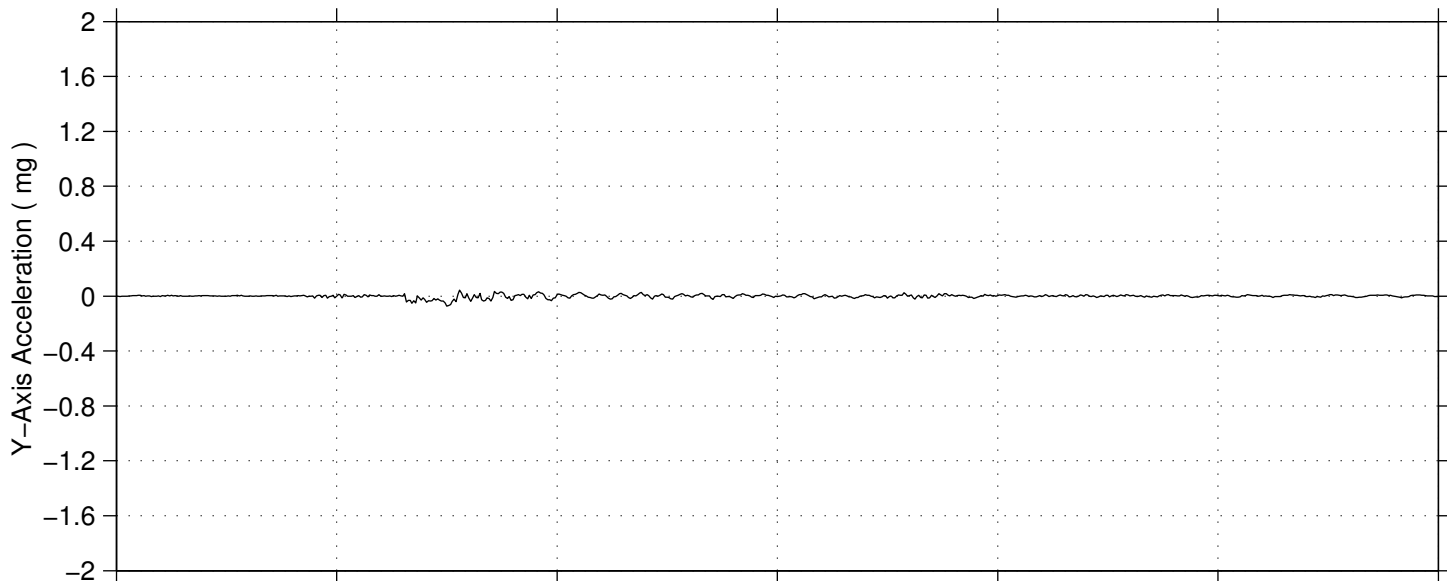
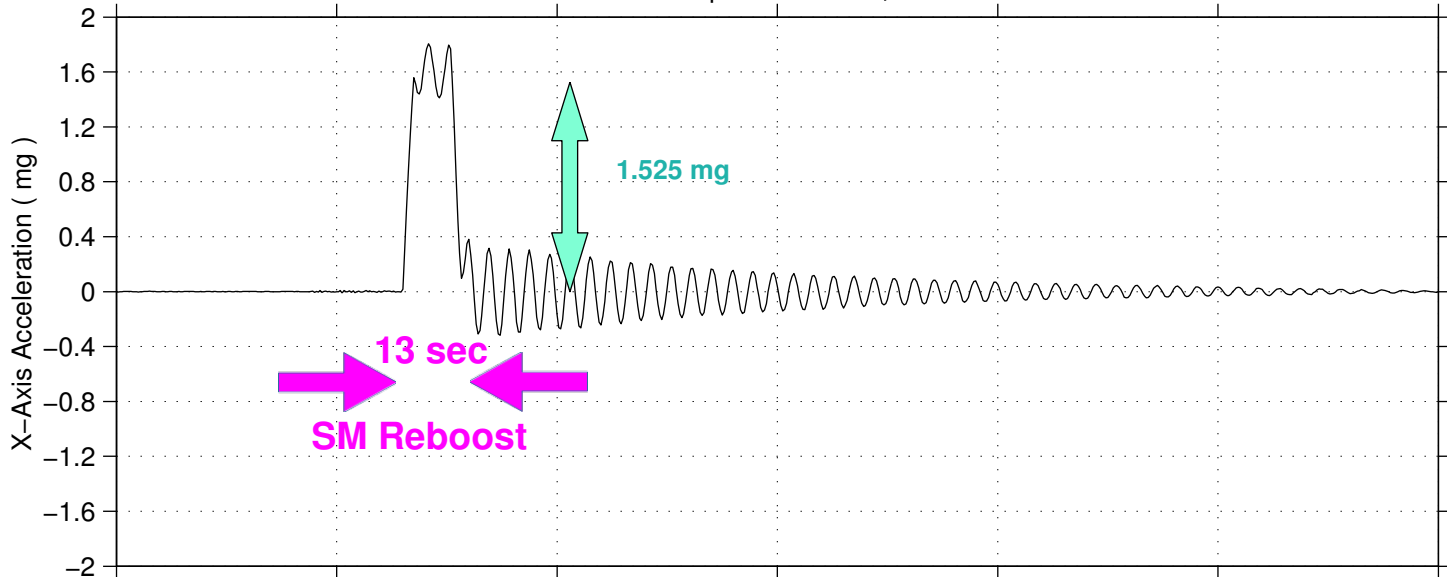
Zvezda Service Module (SM)



Start GMT 06-September-2018, 249/00:49:00



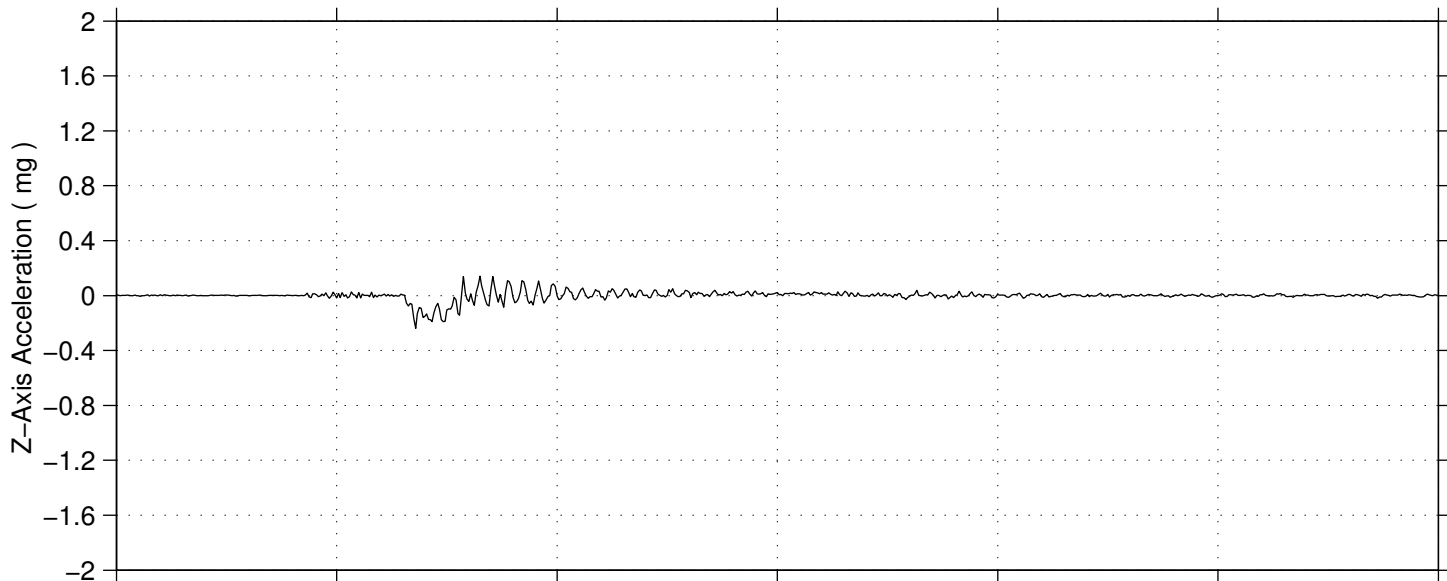
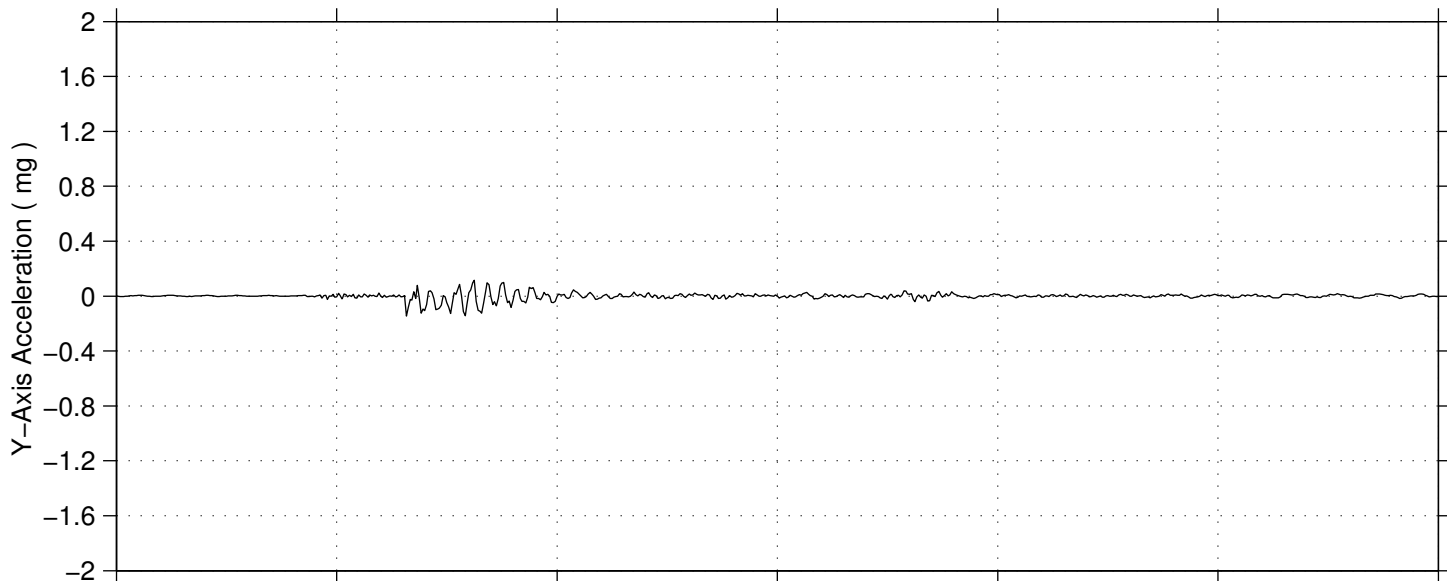
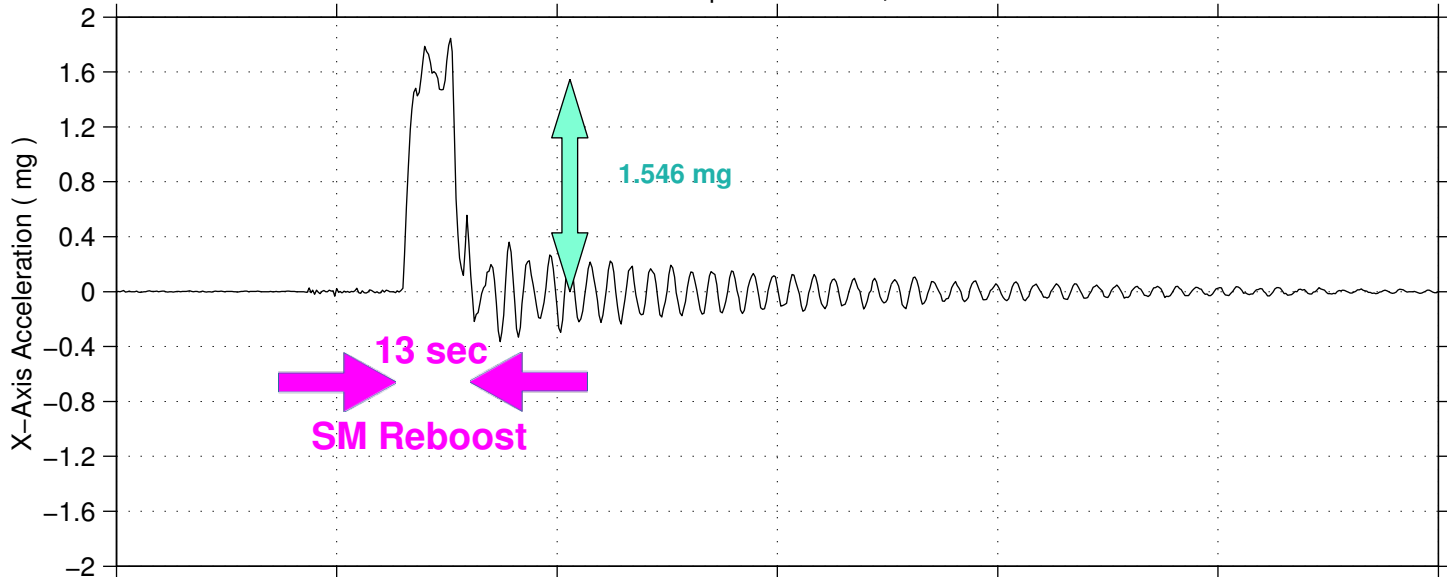
Start GMT 06-September-2018, 249/00:49:00



00:49 00:50 00:51 00:52 00:53 00:54 00:55

GMT 06-September-2018, 249/hh:mm

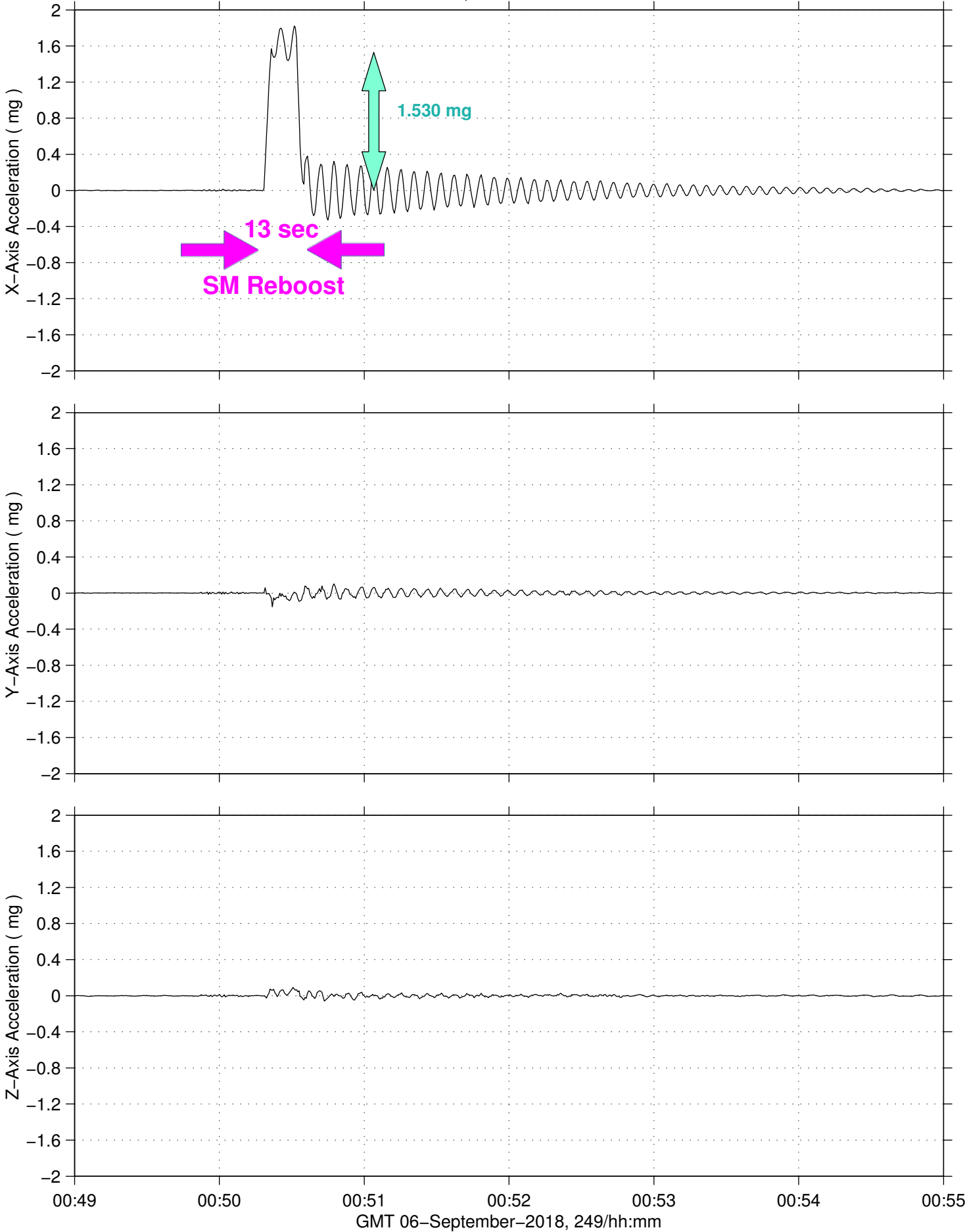
Start GMT 06-September-2018, 249/00:49:00



00:49 00:50 00:51 00:52 00:53 00:54 00:55

GMT 06-September-2018, 249/hh:mm

Start GMT 06-September-2018, 249/00:49:00



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Calculations based on measurements made by the SAMS sensor (121f03) mounted on EXPRESS Rack 2 in the US LAB indicate a **delta V of 0.21 meters/second** was achieved.

Representative acceleration values during the reboost step from each SAMS sensor's X-axis are reported below:

121f03	1.51 mg	LAB1O1	(ER2)
121f04	1.53 mg	LAB1P2	(ER7)
121f08	1.55 mg	COL1A3	(EPM)
es06	1.53 mg	LAB1S4	(FIR)