



# UTC0 Anomaly

*SPACE AND MISSILE SYSTEMS CENTER*

- GPS MCS uploaded incorrect UTC0 parameters to part of the GPS constellation.
  - Occurred from 25-26 Jan, ~14 hour window, 15 SVs affected.
  - Once identified and confirmed, fix uploaded to all affected SVs within 1.5 hours
- SMC/GP and 2SOPS have already implemented a software update to resolve core upload issue.
- SMC/GP also exploring:
  - Addition to the SPS PS, “resilience considerations for handling GPS data.”
  - Increased UTC0 parameter monitoring and exploring additional options
  - Follow-on software update to provide additional protections against UTC0 issues
- ION paper on UTC0 Anomaly impacts to receivers posted on GPS.gov
  - <http://www.gps.gov/systems/gps/performance/>