

**WAAS Technical Report**  
**William J. Hughes Technical Center**  
**Atlantic City International Airport, New Jersey**

**10/15/10**

Author: Tom McHugh

**DR# 97 Large number of not monitored alarms on PRN-25**

**GPS Week/Day: Week 1599 Day 1 (8/30/10)**

A large number of not monitored alarms were observed for PRN-25 during the last two hours of the GPS day. NANU 2010116 was issued for this time period.

The problem was the result of an issue onboard the satellite that caused the signal to transition to an un-trackable state for very short intervals approximately every 170 to 180 seconds for the duration of the event. WAAS was able to track thru some of the intervals and re-establish a monitored status only to loose tracking again which resulted in the alarms to the non monitored status.

The issue ended when the GPS ground control segment corrected the problem. The cause has been resolved and this problem is not expected to reoccur.

Figure 1 - PRN-25 Alarms on 8/30/10

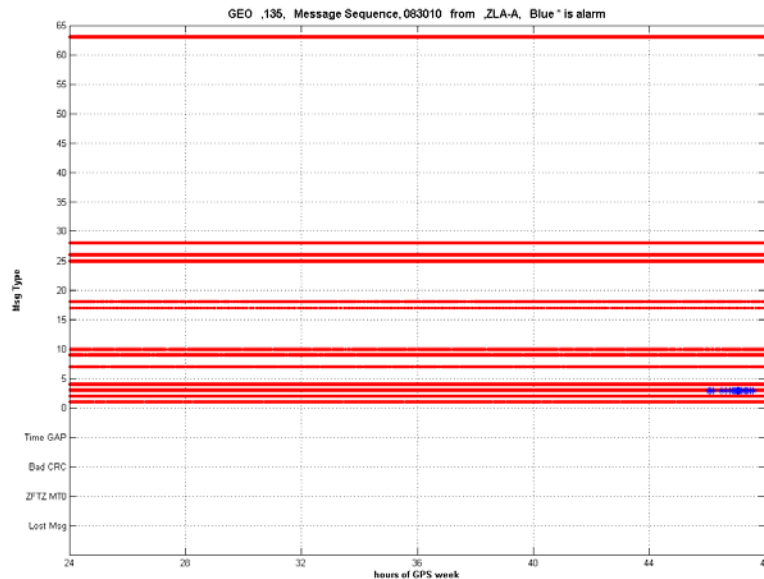


Figure 2 - PRN-25 Alarms - expanded

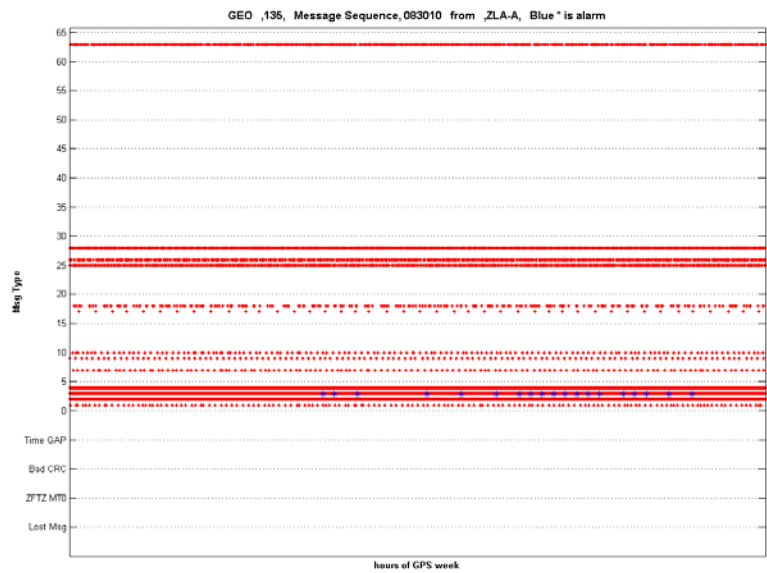


Figure 3 - Signal Tracking Glitches as Observed by WAAS Cold Bay  
(see blue trace)

