

WAAS Satellite Status Performance Videos

This video depicts the positions and status of GPS Satellites over a 24-hour period. Because the real time plots are updated every three minutes, the date and time tag in the lower left corner of the video cycles through the previous day's WAAS Satellite performance in three minute increments.

The colored boxes indicate satellites and their locations:

- The green boxes show Precision Approach (PA) satellites which have a User Differential Range Error, or UDRE, of 15 meters or less.
- Yellow shaded boxes pinpoint Non-Precision Approach (NPA) satellites which have a UDRE of 50 meters or more.
- The satellites which are not in range of WAAS are displayed as turquoise boxes.
- Those satellites that have been deemed unhealthy by GPS or WAAS show up on this plot as red boxes labeled DNU, or Do Not Use. In the example below, no DNUs are plotted.

Number of Satellites:

The WAAS Status Totals at the bottom of this diagram show how many GPS satellites of each state are in use at a particular time. Note how the number of satellites changes. It is also important to note that WAAS GEO satellites #133, #135 and #138 are not included in these totals.

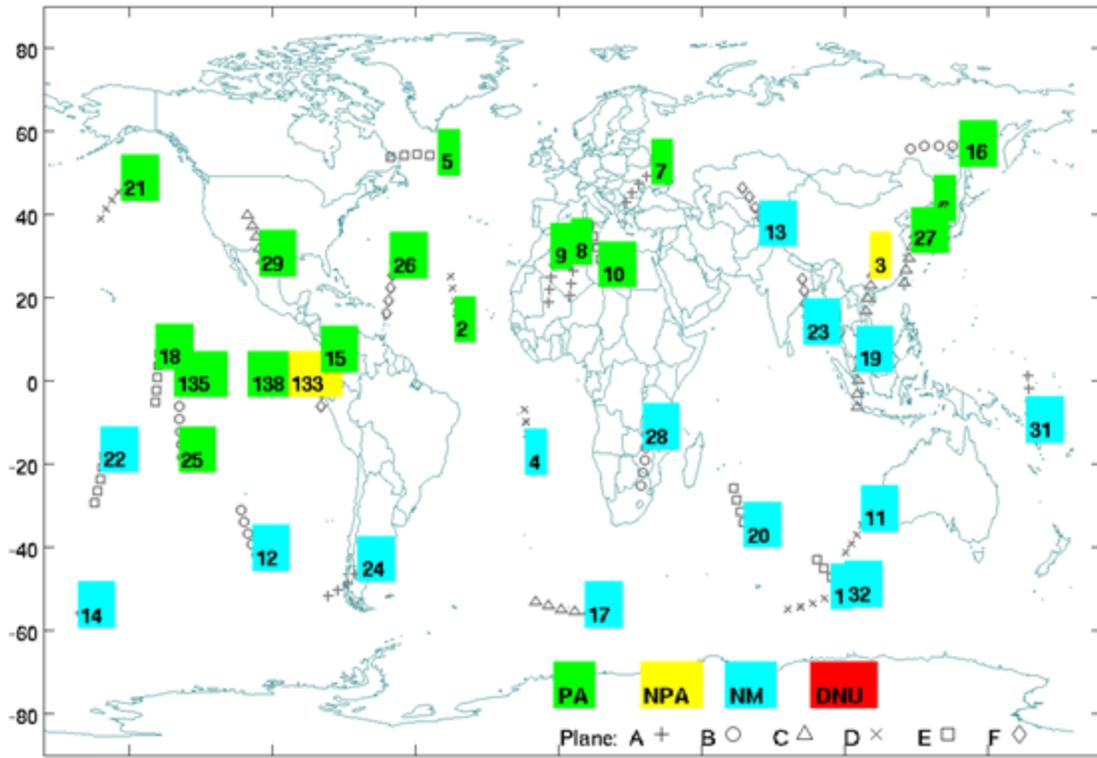
Planes:

The plane where each satellite is positioned is shown by symbols such as Δ , +, or \diamond . These symbols create "tails" behind the satellites to illustrate the direction the satellite is moving. From a user's perspective the GEO satellites do not move so those satellites do not have "tails."

See video screenshot below.

Please note: a media player is required.

Satellite Position and WAAS Status



07-Jan-14 16:30:17 UTC
 W.J.H. FAA Technical Center
 WAAS Test Team

WAAS Status Totals: PA = 15 NPA = 1 NM = 15 DNU = 0