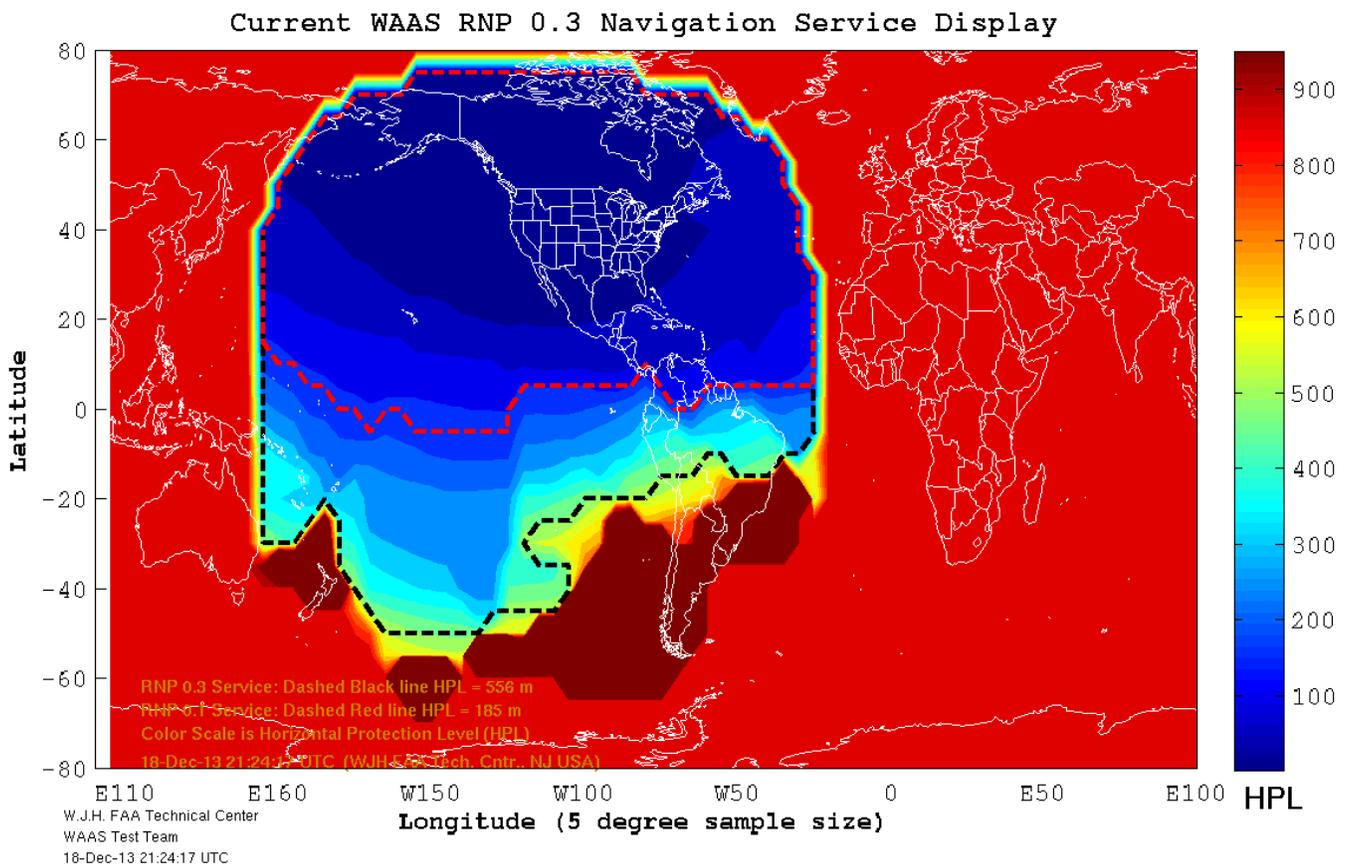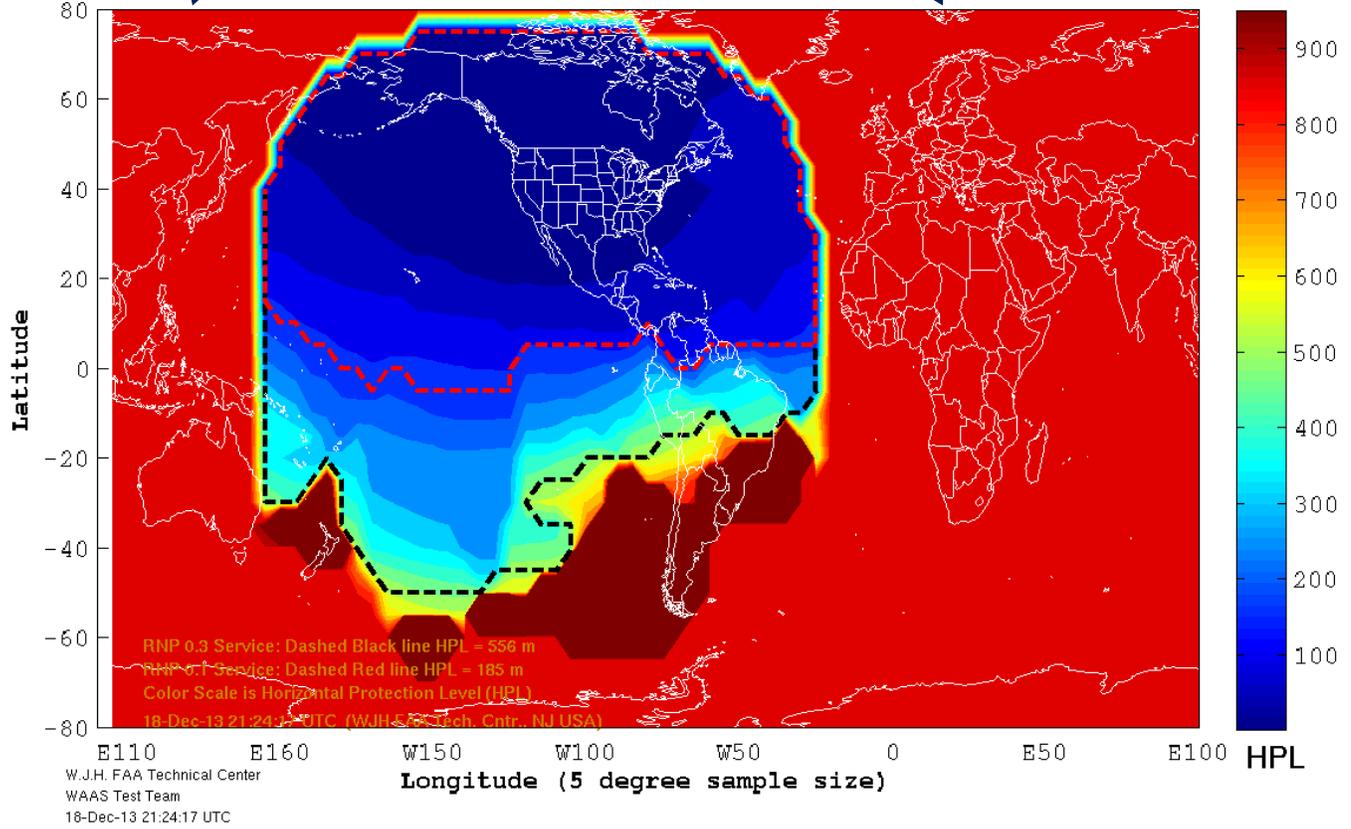# WAAS RNP

Wide Area Augmentation System
Required Navigation Performance

This real-time plot depicts the WAAS Horizontal Navigation Service. It shows where Required Navigation Performance (RNP) 0.3 Service Level and RNP 0.1 Service levels are located. The dashed black line (Horizontal Protection Level, or HPL is ≤556 meters) shows the contour of the RNP 0.3 Service Level while RNP 0.1 Service level is shown using the dashed red line. (Horizontal Protection Level, or HPL is ≤185 meters)

Current WAAS RNP 0.3 Navigation Service Display

RNP 0.3 Service: Dashed Black line HPL = 556 m
RNP 0.1 Service: Dashed Red line HPL = 185 m
Color Scale is Horizontal Protection Level (HPL)
18-Dec-13 21:24:17 UTC (WJH&FP Tech. Cntr., NJ USA)

W.J.H. FAA Technical Center
WAAS Test Team
18-Dec-13 21:24:17 UTC

In order to calculate HPL, only WAAS monitored satellites are used. The red areas show where WAAS RNP 0.1 and RNP 0.3 service is not available due to the footprint of WAAS Geostationary Satellites and WAAS service availability.
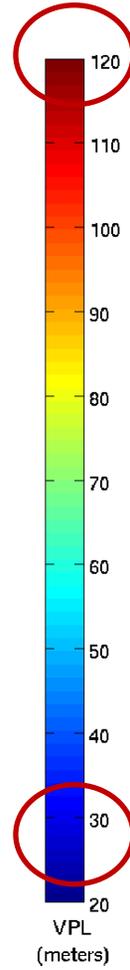

Current WAAS RNP 0.3 Navigation Service Display

RNP 0.3 Service: Dashed Black line HPL = 556 m
RNP 0.1 Service: Dashed Red line HPL = 185 m
Color Scale is Horizontal Protection Level (HPL)
18-Dec-13 21:24:17 UTC (WJH FAA Tech. Cntr., NJ USA)

W.J.H. FAA Technical Center
WAAS Test Team
18-Dec-13 21:24:17 UTC

The Color Scale

The color scale shows the HPL, or Horizontal Protection Level.
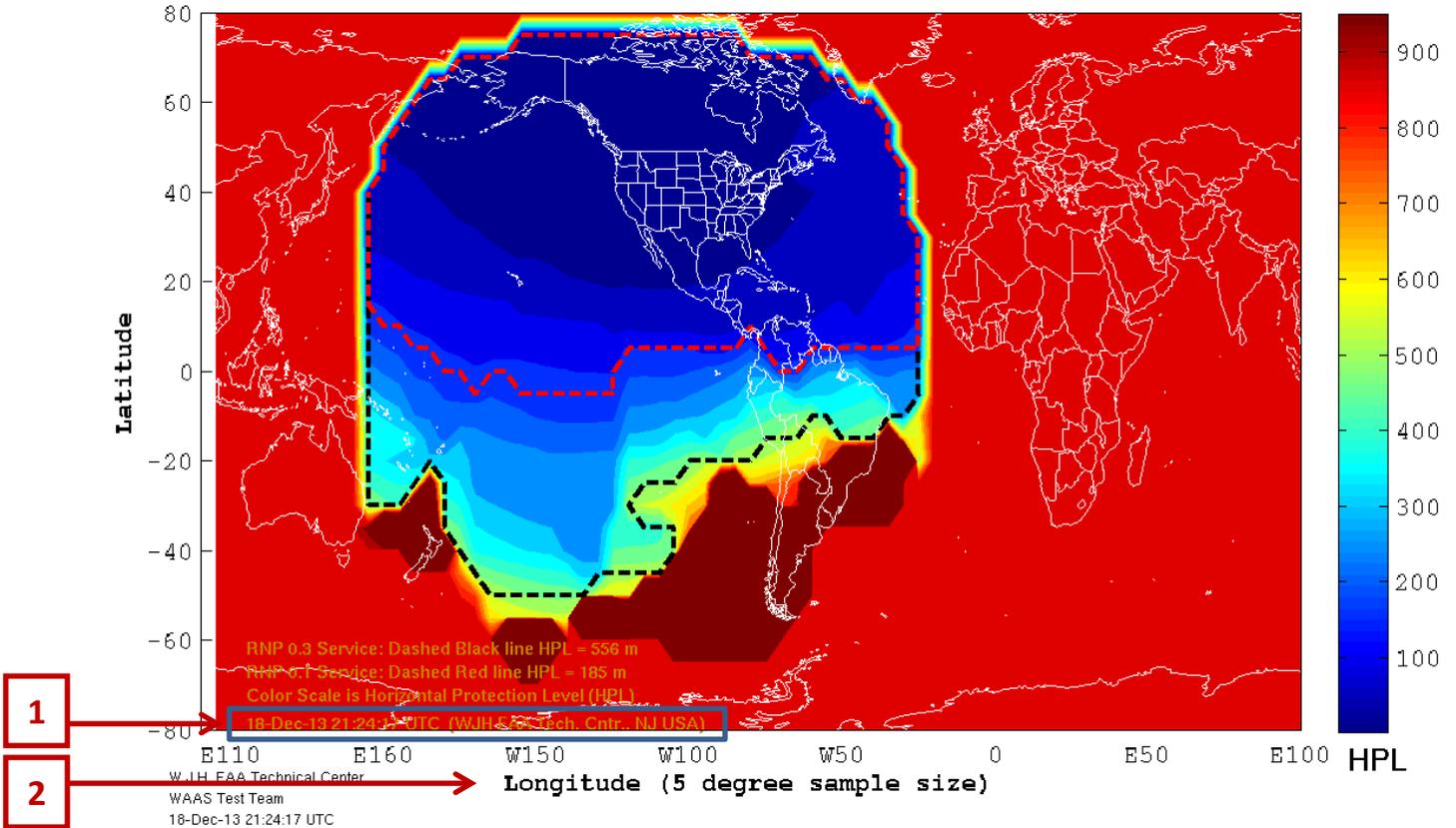
The brown end of the spectrum indicates a high HPL.

The blue color shows a much lower HPL.

120
110
100
90
80
70
60
50
40
30
20

VPL
(meters)

The time tag indicates the plot update time (See #1 below). The current WAAS service is calculated on a 5 degree grid (See #2 below) and updated every 3 minutes. Please note, however, that the page refreshes every 2 minutes (See #3 below).

(Click on image to view full size)

Data is updated every three minutes, page refreshes every two minutes.