

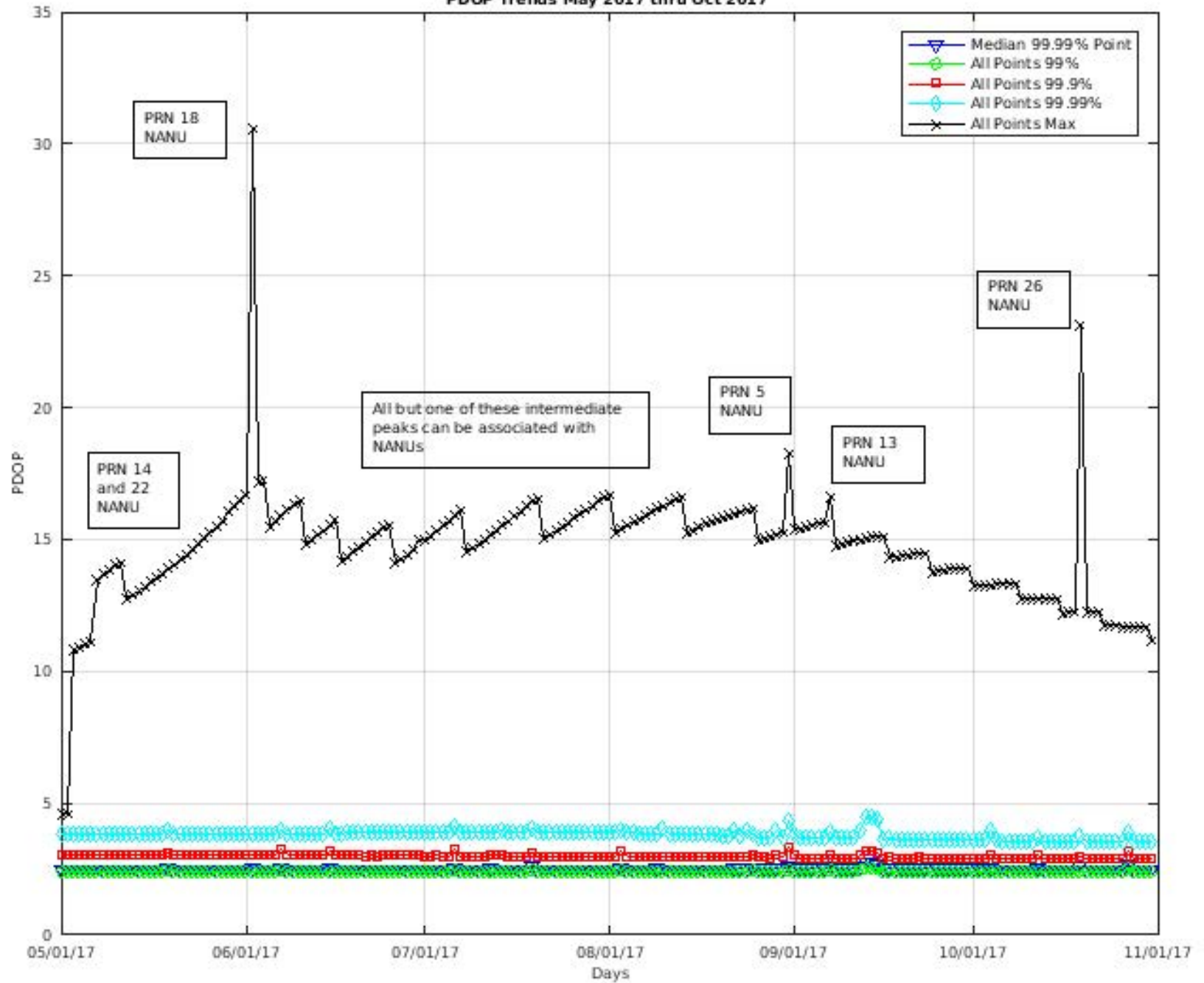
# Civil Report Card On GPS Performance Oct 2017

Operational Performance Parameter	CY 2016	Sep 2017	Oct 2017	Long term	Short term
<b>Availability Parameters</b>					
<i>Average Number of satellites usable</i>	30.85	30.86	30.97	↑	↑
<i>Average number of satellites usable in primary slots</i>	23.99 (99.94%)	23.87 (99.45%)	23.98 (99.90%)	↓	↑
<i>Average availability of 6 satellites in view</i>	99.94%	100%	100%	↑	→
<b>99.99% Horizontal DOP</b>					
<i>Area Median</i>	1.3	1.4	1.4	↓	→
<i>Worst Site</i>	4.9	3.4	3.1	↑	↑
<b>99.99% Vertical DOP</b>					
<i>Area Median</i>	2.3	2.5	2.5	↓	→
<i>Worst Site</i>	15.1	15.1	13.0	↑	↑
<b>99.99% Position DOP (PDOP)</b>					
<i>Area Median</i>	2.6	2.8	2.8	↓	→
<i>Worst Site</i>	15.8	15.5	13.3	↑	↑
<b>100% RAIM Availability (HAL=185m)</b>					
<i>NPA Service Area (NSA)</i>	76.93%	75.89%	83.47%	↑	↑
<i>World</i>	68.27%	64.39%	68.97%	↑	↑
<b>Accuracy Parameters</b>					
<b>RMS Single Frequency User Range Error</b>					
<i>Constellation Median</i>	1.64	1.76	1.58	↑	↑
<i>Worst Satellite</i>	16.90	20.26	15.48	↑	↑
<b>95% Horizontal Error</b>					
<i>Area Median</i>	1.98	2.07	1.75	↑	↑
<i>Worst Site</i>	7.82	4.41	4.12	↑	↑
<i>Availability (% &lt;4.5m (historical 3-sigma))</i>	99.65%	99.69%	99.88%	↑	↑
<b>95% Vertical Error</b>					
<i>Area Median</i>	3.87	4.63	3.79	↑	↑
<i>Worst Site</i>	15.03	5.70	4.49	↑	↑
<i>Availability (% &lt; 9m (historical 3-sigma))</i>	99.98%	99.99%	100%	↑	↑

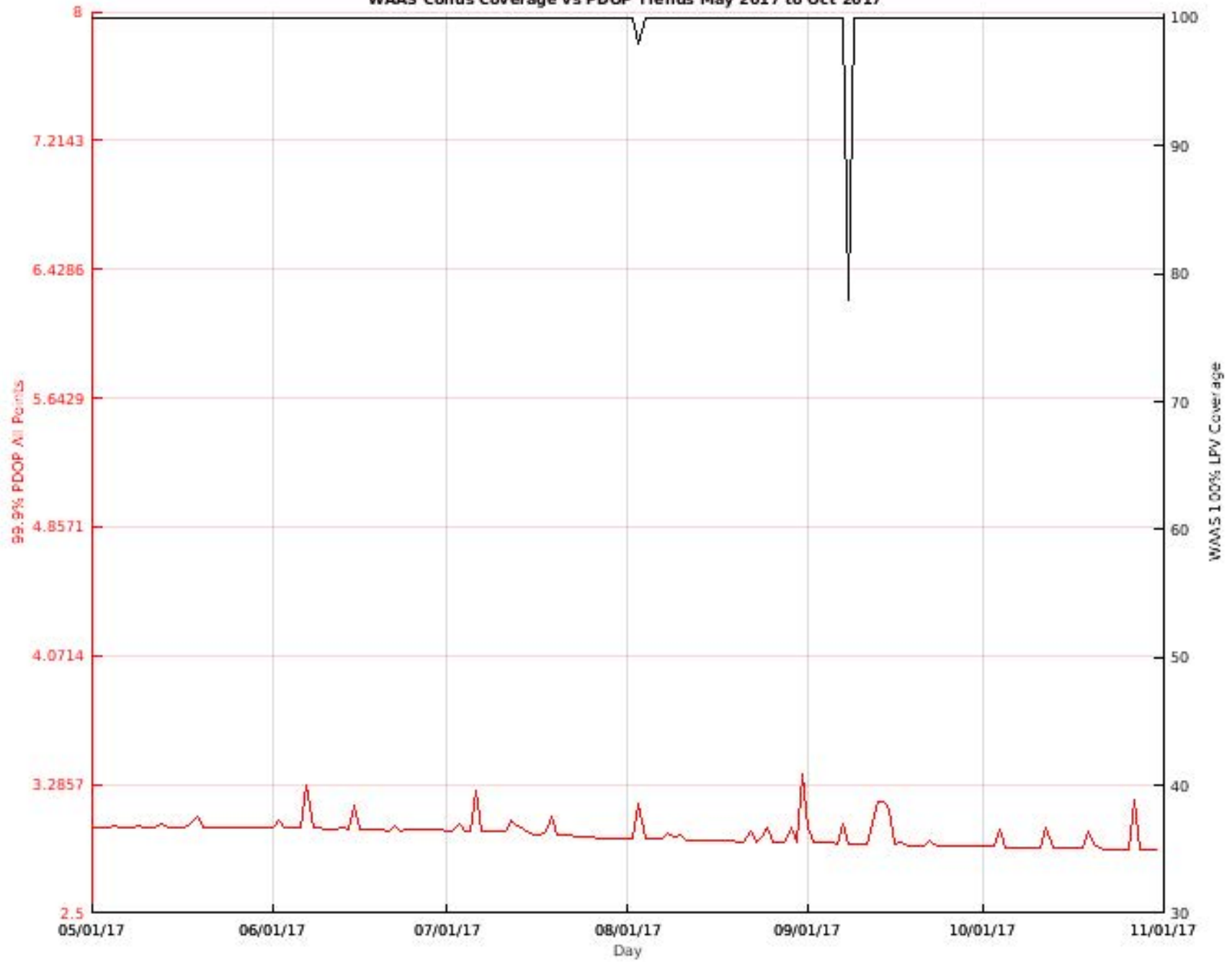
Key: ↑ improving ↓ worsening → no significant change

Long Term is current month vs. prior 12 months; Short Term is current month vs. prior month

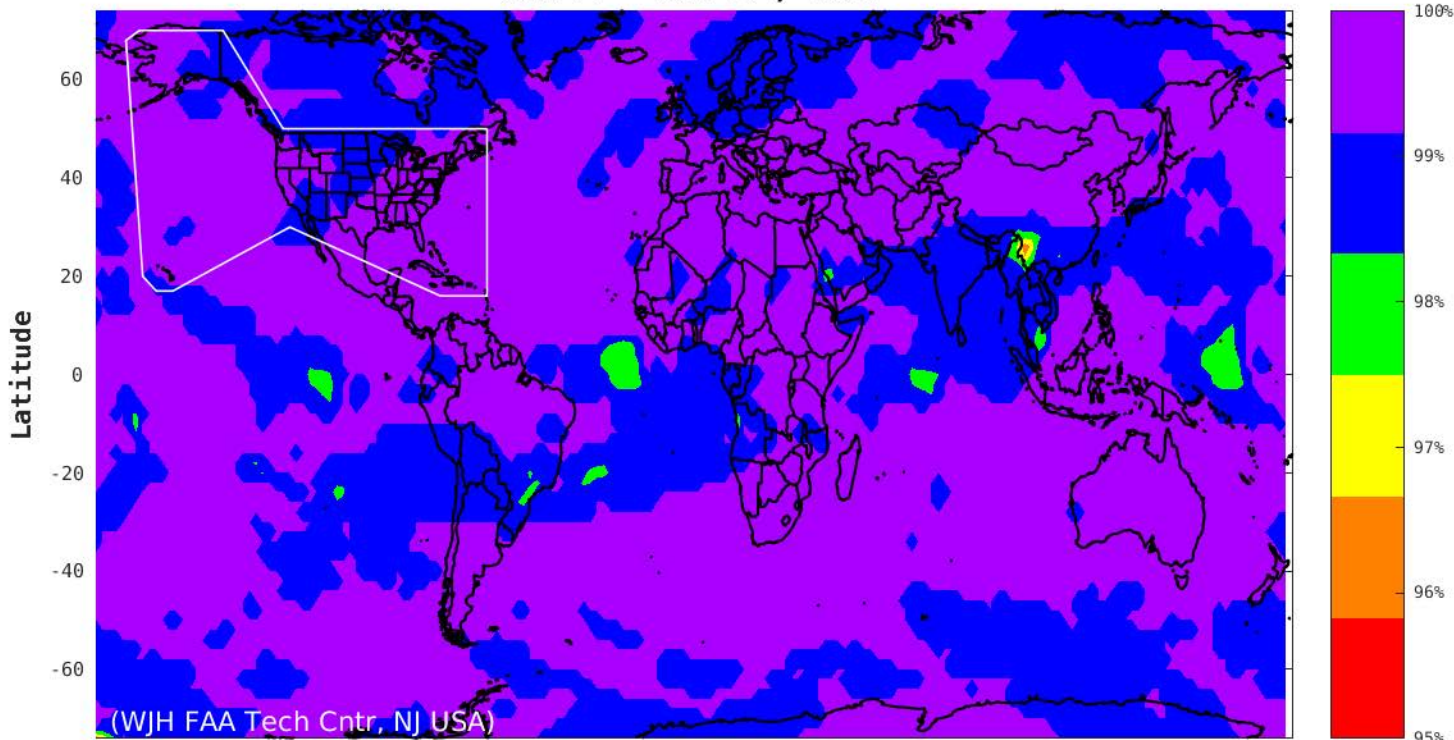
PDOP Trends May 2017 thru Oct 2017



WAAS Conus Coverage vs PDOP Trends May 2017 to Oct 2017



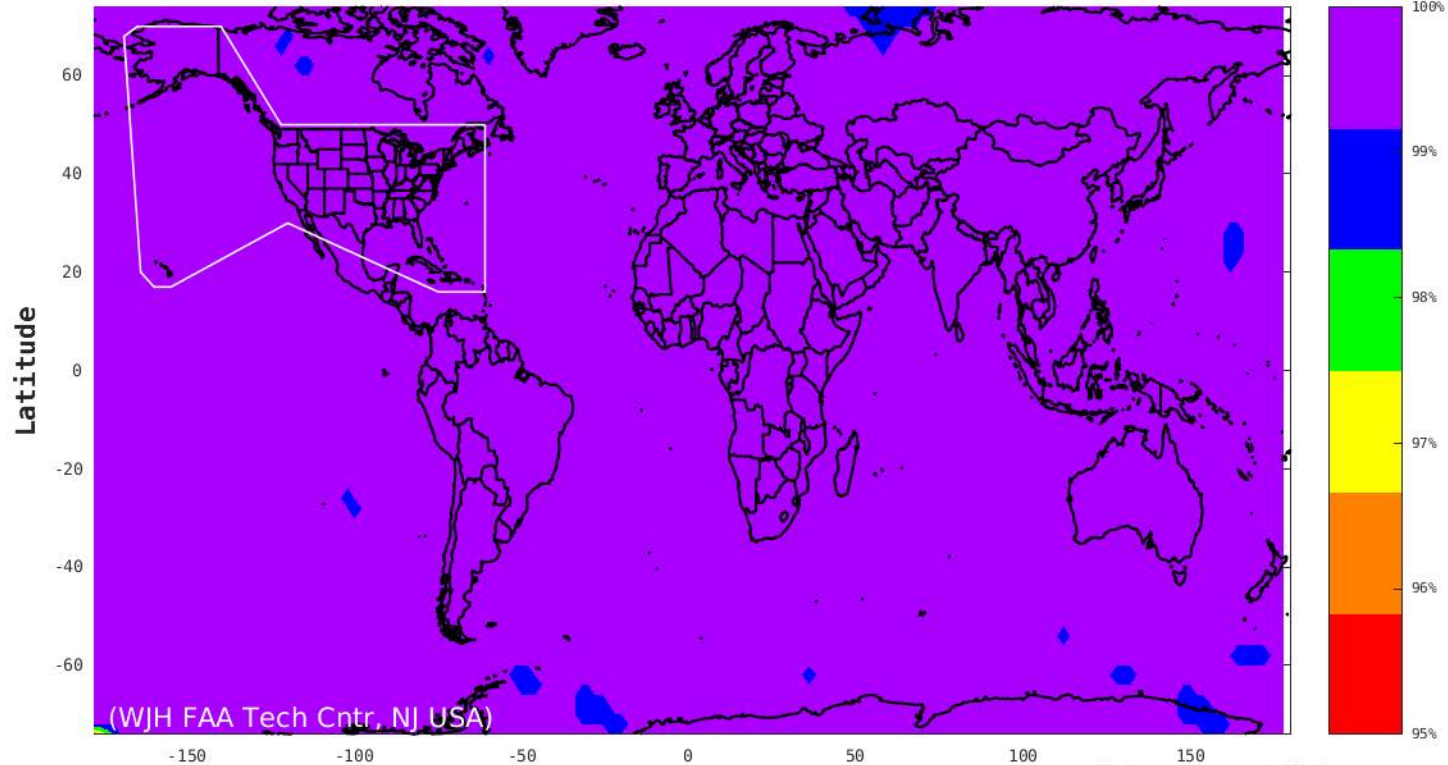
**SPS RAIM RNP 0.1 (HAL = 185m) Availability  
 FD Only, SA Off, without Baro-Aiding  
 Oct 1 - Oct 31, 2017**



W.J.H. FAA Technical Center  
 WAAS Test Team  
 11/02/17

100 Percent Avail.	150 WNR Coverage	Global
95	100.00%	100.00%
98	100.00%	99.96%
99	100.00%	99.20%
100	83.47%	68.97%

**SPS RAIM RNP 0.3 (HAL = 556m) Availability  
 FD Only, SA Off, without Baro-Aiding  
 Oct 1 - Oct 31, 2017**



W.J.H. FAA Technical Center  
 WAAS Test Team  
 11/02/17

Percent Avail.	WNR Coverage	Global
95	100.00%	100.00%
98	100.00%	100.00%
99	100.00%	100.00%
100	100.00%	99.33%

# GPS World PDOP 99.99% Index Oct 2017

