

# Civil Report Card On GPS Performance

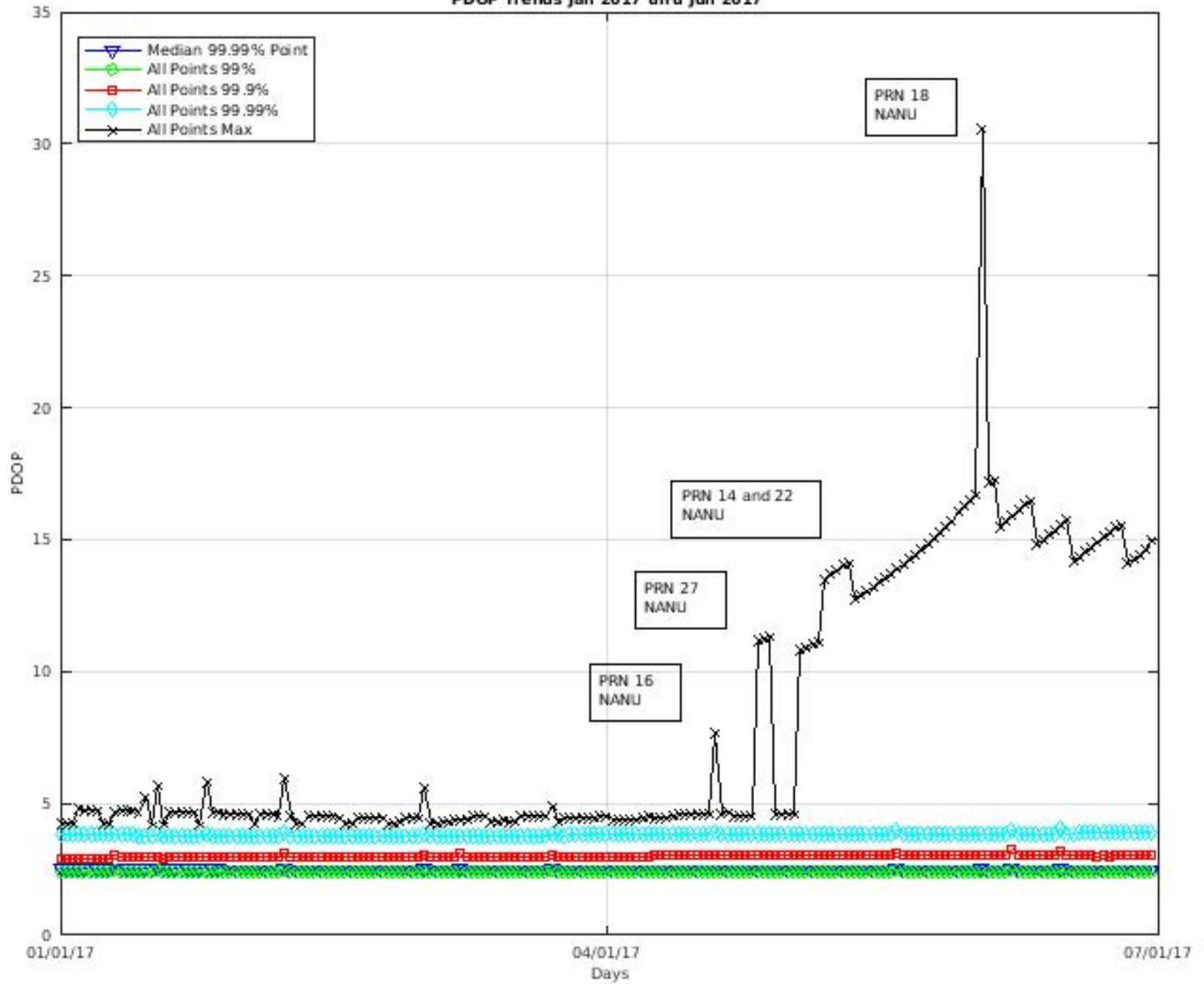
## Jun 2017

Operational Performance Parameter	CY 2016	May 2017	Jun 2017	Long term	Short term
<b>Availability Parameters</b>					
<i>Average Number of satellites usable</i>	30.85	30.98	30.96	↑	↓
<i>Average number of satellites usable in primary slots</i>	23.99 (99.94%)	23.99 (99.95%)	23.97 (99.87%)	↓	↓
<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	1.3	1.3	→	→
<i>Worst Site</i>	4.9	3.6	4.3	↑	↓
<b>99.99% Vertical DOP</b>					
<i>Area Median</i>	2.3	2.3	2.4	↓	↓
<i>Worst Site</i>	15.1	15.1	15.9	↓	↓
<b>99.99% Position DOP (PDOP)</b>					
<i>Area Median</i>	2.6	2.6	2.7	↓	↓
<i>Worst Site</i>	15.8	15.5	16.5	↓	↓
<b>100% RAIM Availability (HAL=185m)</b>					
<i>NPA Service Area (NSA)</i>	76.93%	65.05%	67.26%	↓	↑
<i>World</i>	68.27%	77.79%	75.75%	↑	↓
<b>Accuracy Parameters</b>					
<b>RMS Single Frequency User Range Error</b>					
<i>Constellation Median</i>	1.64	1.56	1.28	↑	↑
<i>Worst Satellite</i>	16.90	10.04	7.97	↑	↑
<b>95% Horizontal Error</b>					
<i>Area Median</i>	1.98	1.86	1.62	↑	↑
<i>Worst Site</i>	7.82	3.19	2.47	↑	↑
<i>Availability (% &lt;4.5m (historical 3-sigma))</i>	99.65%	99.99%	100%	↑	↑
<b>95% Vertical Error</b>					
<i>Area Median</i>	3.87	3.82	3.03	↑	↑
<i>Worst Site</i>	15.03	4.55	3.88	↑	↑
<i>Availability (% &lt; 9m (historical 3-sigma))</i>	99.98%	100%	100%	↑	→

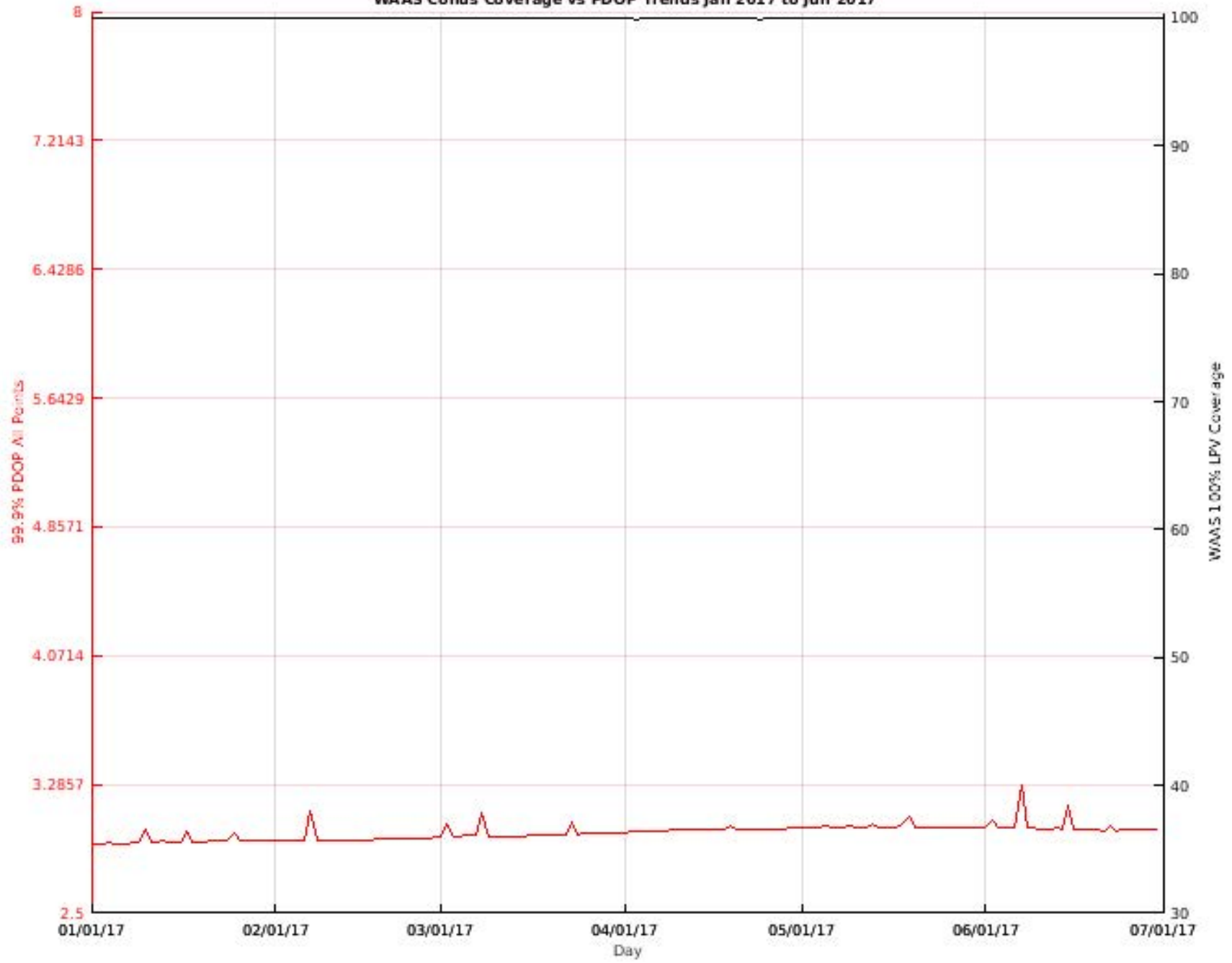
Key: ↑ improving ↓ worsening → no significant change

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

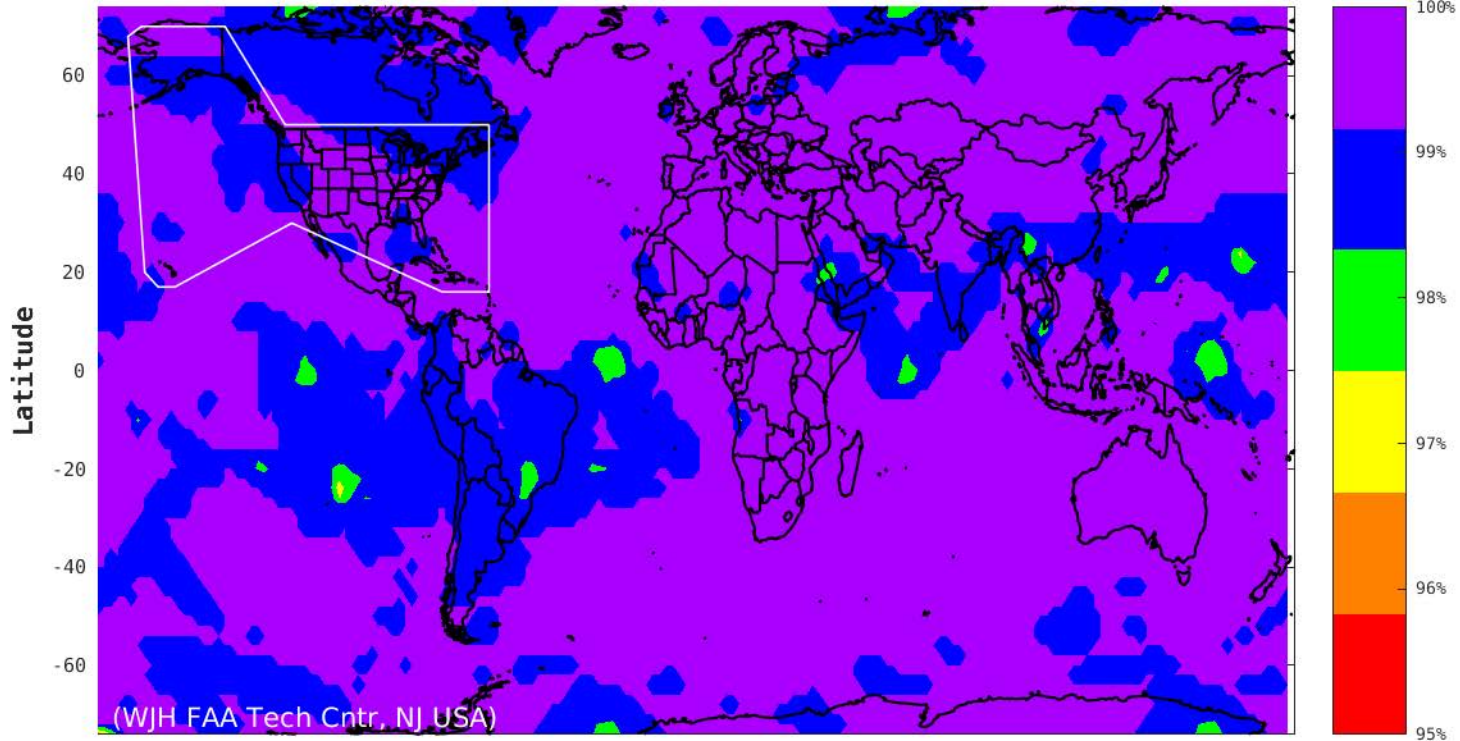
PDOP Trends Jan 2017 thru Jun 2017



WAAS Conus Coverage vs PDOP Trends Jan 2017 to Jun 2017



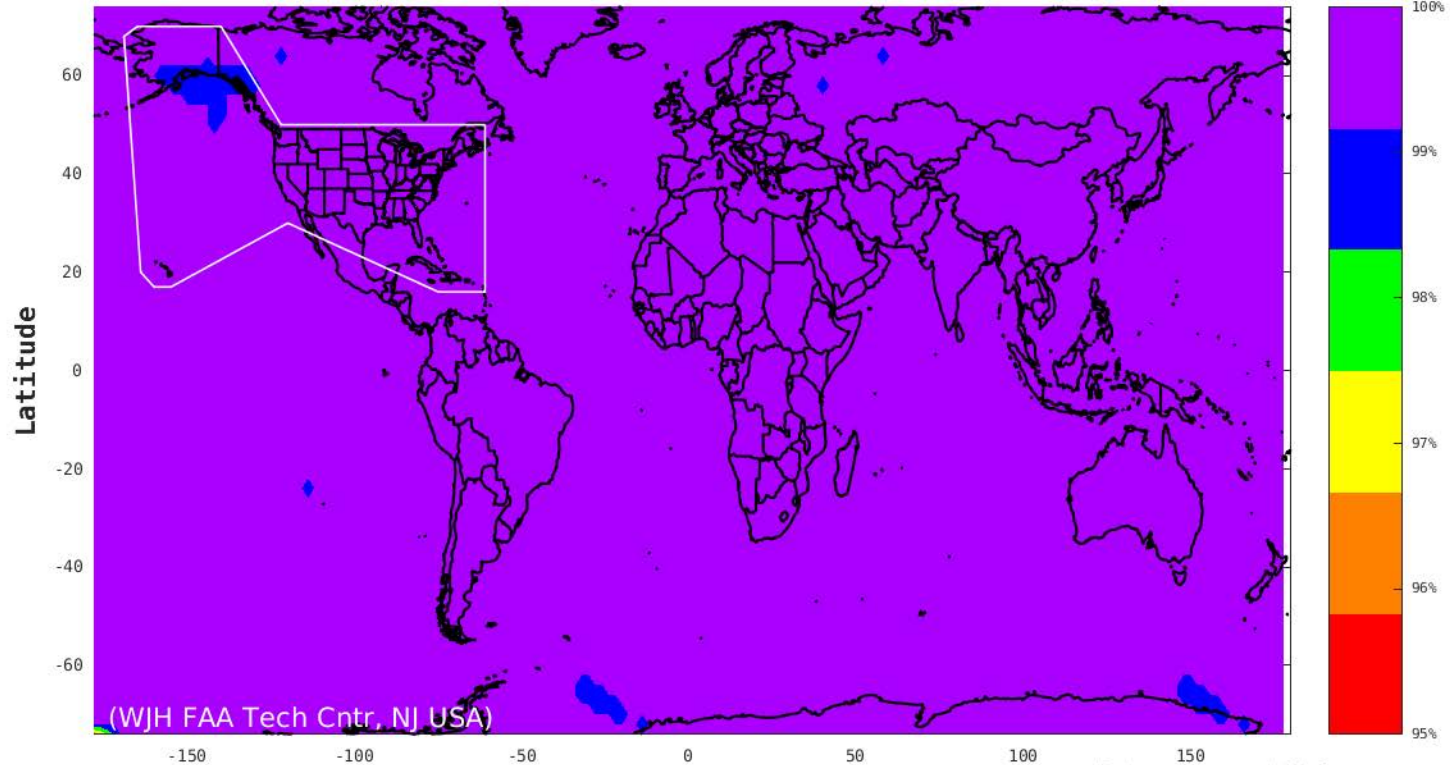
**SPS RAIM RNP 0.1 (HAL = 185m) Availability  
 FD Only, SA Off, without Baro-Aiding  
 Jun 1 - Jun 30, 2017**



W.J.H. FAA Technical Center  
 WAAS Test Team  
 07/03/17

100 Percent Avail.	150 WNR Coverage	Global
95	100.00%	100.00%
98	100.00%	99.98%
99	100.00%	99.10%
100	67.26%	75.75%

**SPS RAIM RNP 0.3 (HAL = 556m) Availability  
 FD Only, SA Off, without Baro-Aiding  
 Jun 1 - Jun 30, 2017**



W.J.H. FAA Technical Center  
 WAAS Test Team  
 07/03/17

Percent Avail.	WNR Coverage	Global
95	100.00%	100.00%
98	100.00%	100.00%
99	100.00%	100.00%
100	95.89%	99.49%



# GPS World PDOP 99.99% Index Jun 2017

