

Civil Report Card On GPS Performance

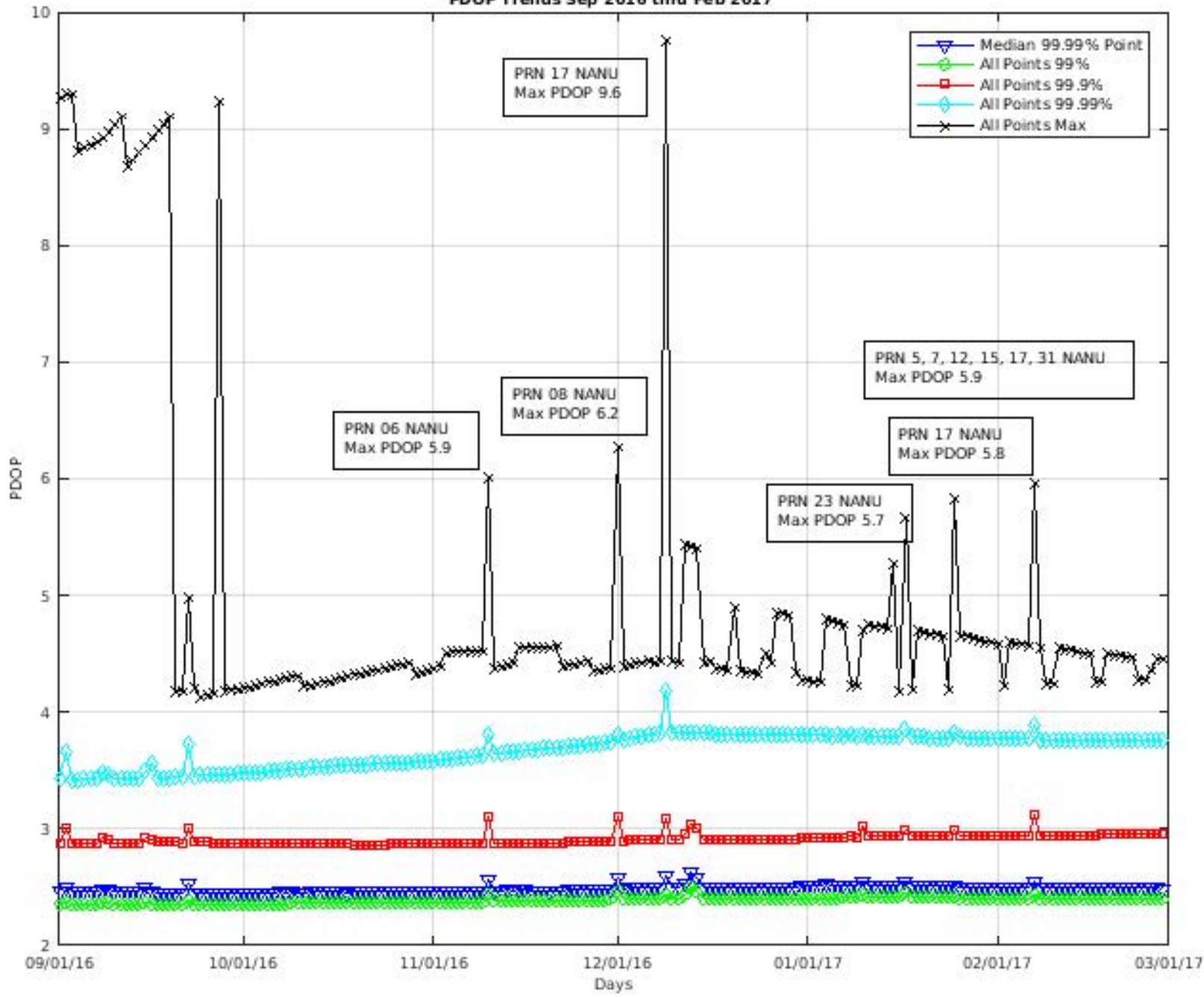
Feb 2017

Operational Performance Parameter	CY 2016	Jan 2017	Feb 2017	Long term	Short term
Availability Parameters					
<i>Average Number of satellites usable</i>	30.85	30.98	30.99	↑	↑
<i>Average number of satellites usable in primary slots</i>	23.99 (99.94%)	23.98 (99.93%)	23.99 (99.98%)	↑	↑
<i>Average availability of 6 satellites in view</i>	99.94%	100%	100%	↑	→
99.99% Horizontal DOP					
<i>Area Median</i>	1.3	1.3	1.3	→	→
<i>Worst Site</i>	4.9	2.7	2.2	↑	↑
99.99% Vertical DOP					
<i>Area Median</i>	2.3	2.3	2.3	→	→
<i>Worst Site</i>	15.1	5.7	5.8	↑	↓
99.99% Position DOP (PDOP)					
<i>Area Median</i>	2.6	2.6	2.6	→	→
<i>Worst Site</i>	15.8	5.8	5.9	↑	↓
100% RAIM Availability (HAL=185m)					
<i>NPA Service Area (NSA)</i>	76.93%	90.42%	83.36%	↑↓	↓
<i>World</i>	68.27%	78.73%	66.63%	↓	↓
Accuracy Parameters					
RMS Single Frequency User Range Error					
<i>Constellation Median</i>	1.64	1.56	1.52	↑	↑
<i>Worst Satellite</i>	16.90	13.41	13.46	↑	↓
95% Horizontal Error					
<i>Area Median</i>	1.98	1.82	1.84	↑	↓
<i>Worst Site</i>	7.82	3.78	4.31	↑	↓
<i>Availability (% <4.5m (historical 3-sigma))</i>	99.65%	99.93%	99.86%	↑	↓
95% Vertical Error					
<i>Area Median</i>	3.87	3.74	3.70	↑	↑
<i>Worst Site</i>	15.03	4.35	4.45	↑	↓
<i>Availability (% < 9m (historical 3-sigma))</i>	99.98%	100%	100%	↑	→

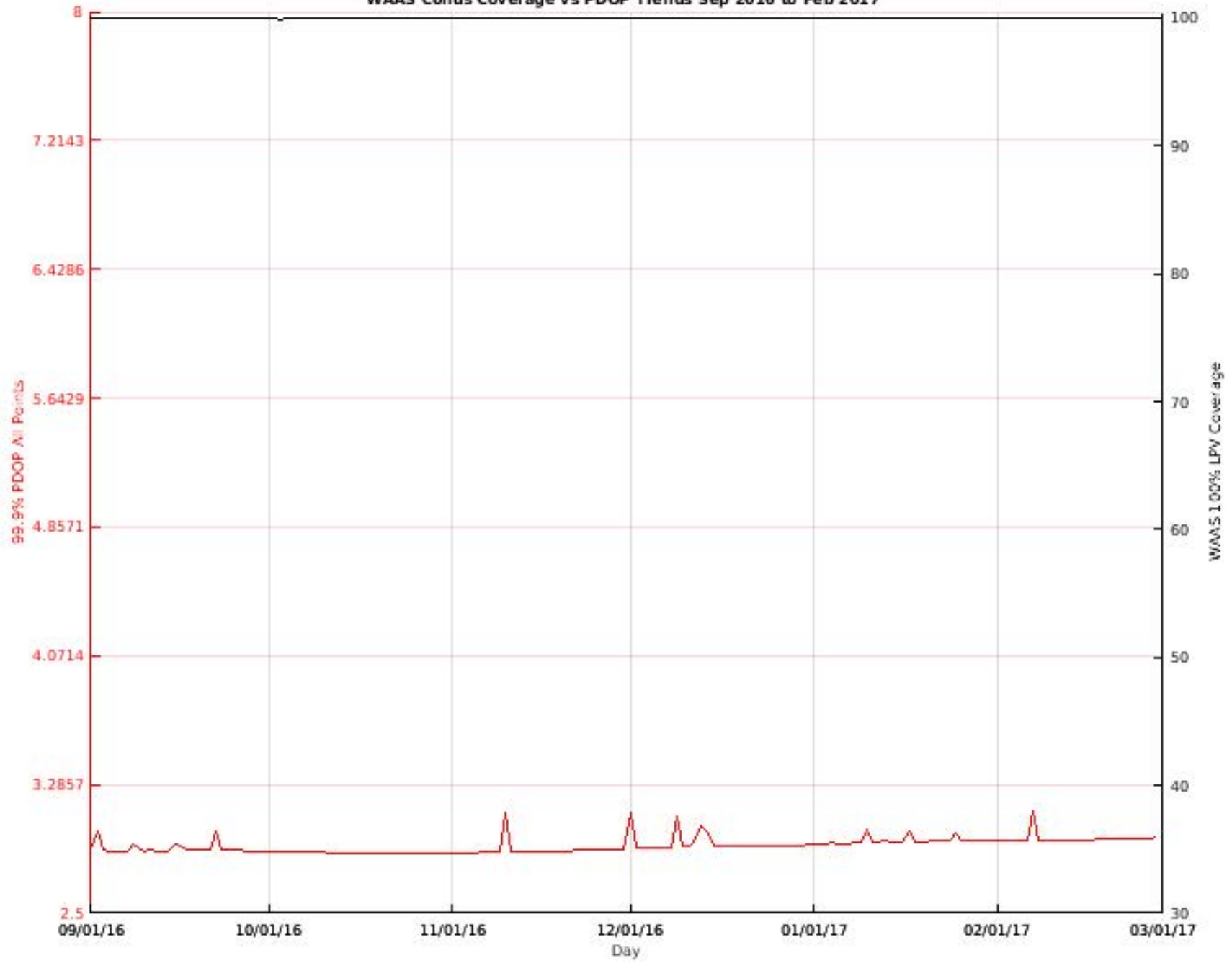
Key: ↑ improving ↓ worsening → no significant change

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

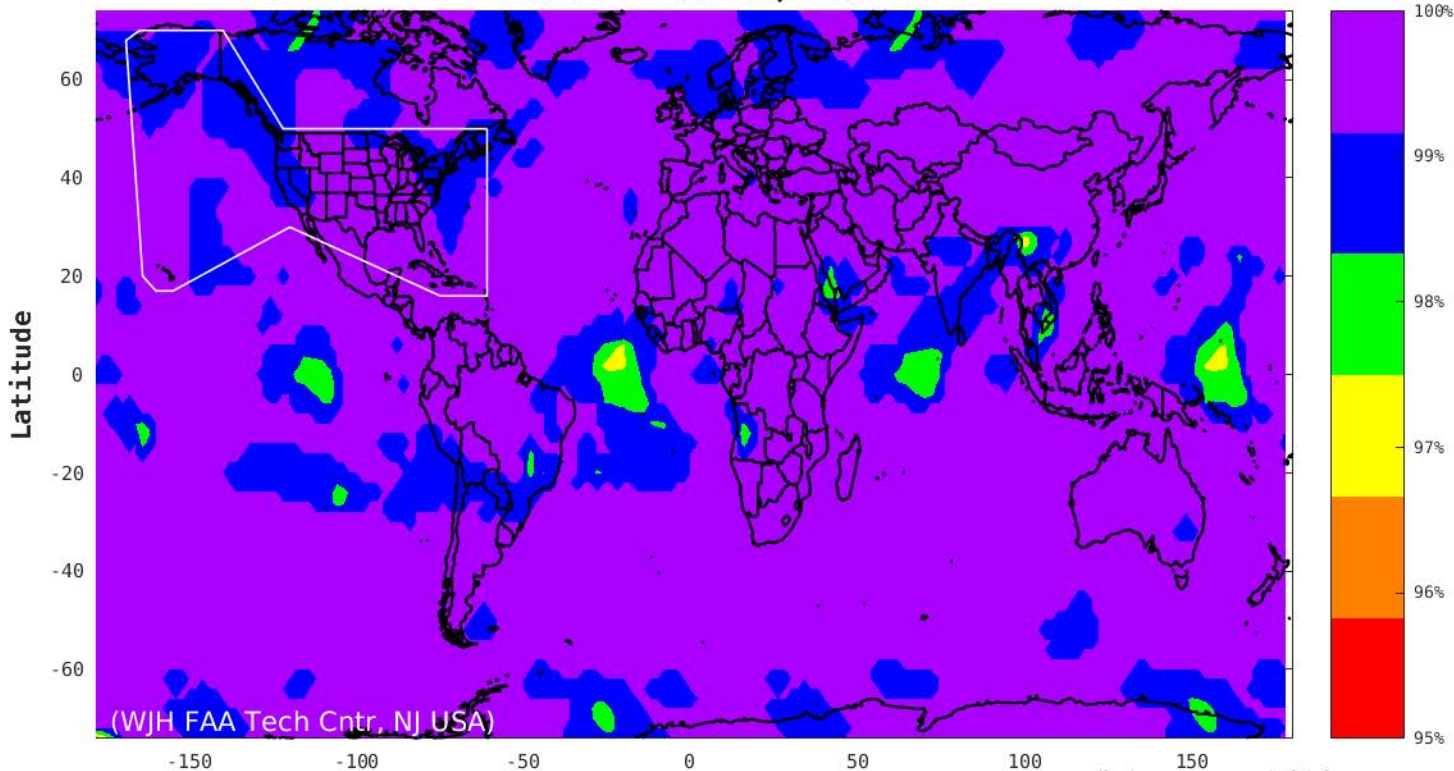
PDOP Trends Sep 2016 thru Feb 2017



WAAS Conus Coverage vs PDOP Trends Sep 2016 to Feb 2017



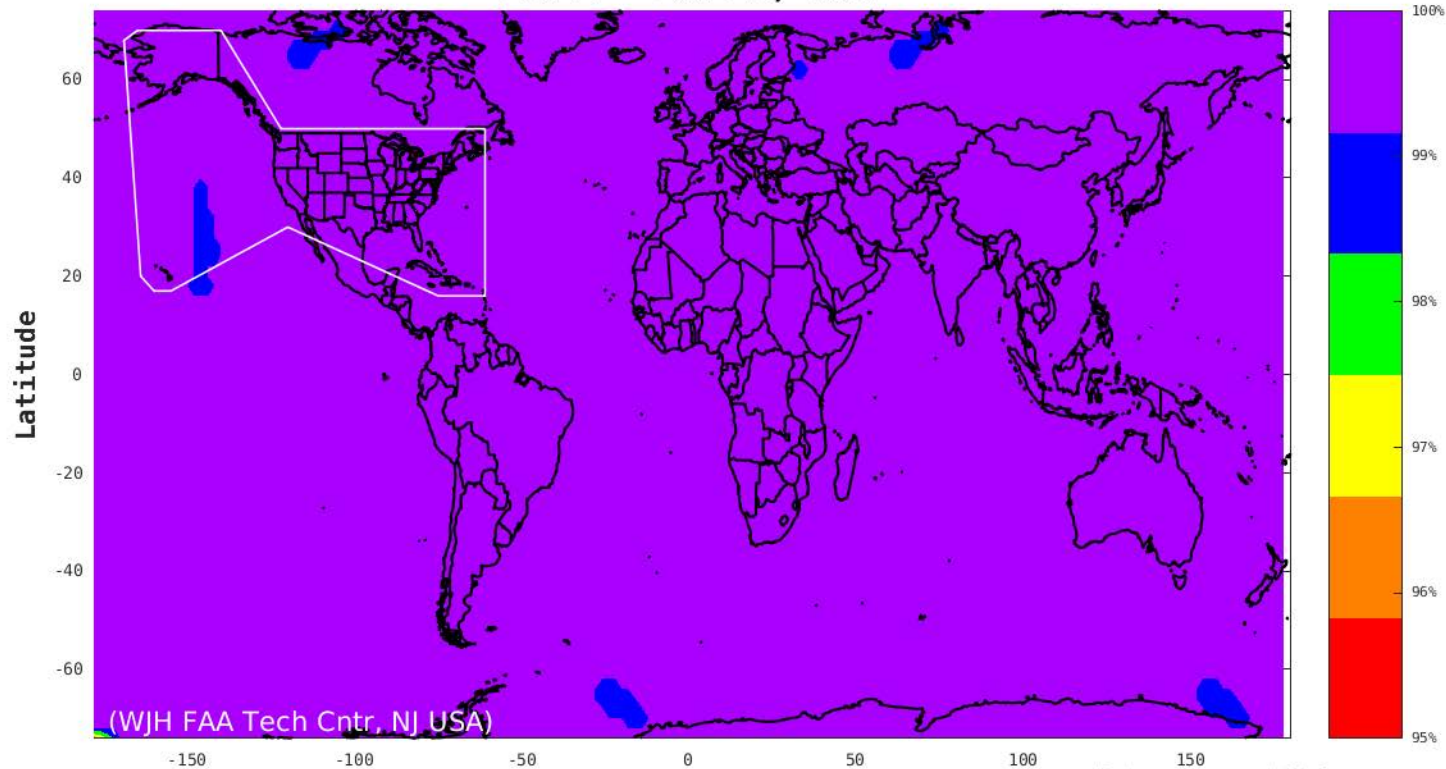
**SPS RAIM RNP 0.1 (HAL = 185m) Availability
 FD Only, SA Off, without Baro-Aiding
 Feb 1 - Feb 28, 2017**



W.J.H. FAA Technical Center
 WAAS Test Team
 03/20/17

100 Percent Avail.	150 WNR Coverage	Global
95	100.00%	100.00%
98	100.00%	99.88%
99	100.00%	98.44%
100	66.63%	83.36%

**SPS RAIM RNP 0.3 (HAL = 556m) Availability
 FD Only, SA Off, without Baro-Aiding
 Feb 1 - Feb 28, 2017**



W.J.H. FAA Technical Center
 WAAS Test Team
 03/20/17

Percent Avail.	WNR Coverage	Global
95	100.00%	100.00%
98	100.00%	100.00%
99	100.00%	100.00%
100	98.32%	99.42%

GPS World PDOP 99.99% Index Feb 2017

