

Civil Report Card On GPS Performance

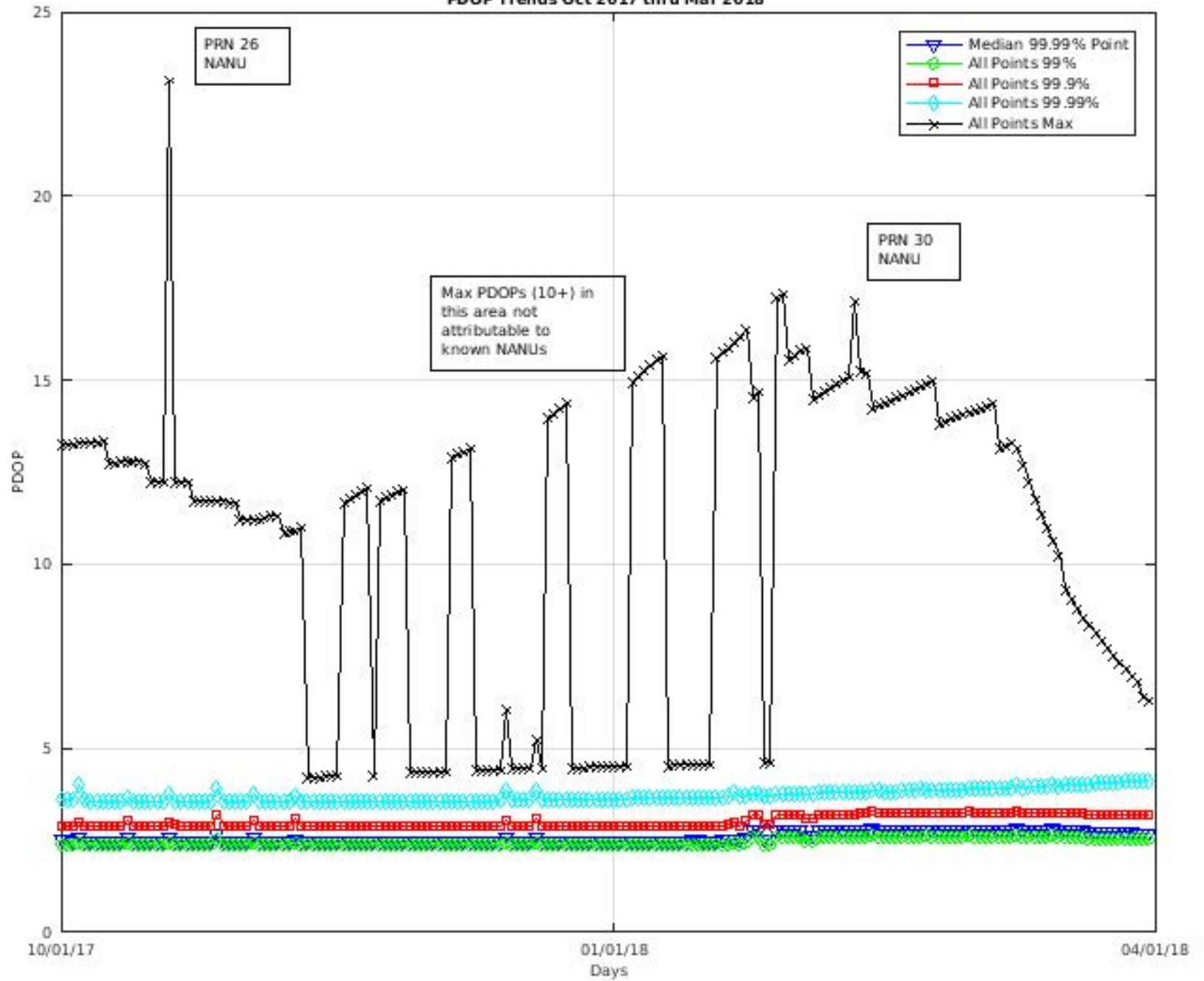
Mar 2018

Operational Performance Parameter	CY 2017	Feb 2018	Mar 2018	Long term	Short term
Availability Parameters					
<i>Average Number of satellites usable</i>	30.97	29.99	30.33	↓	↑
<i>Average number of satellites usable in primary slots</i>	23.97 (99.88%)	22.99 (95.79%)	23.34 (97.25%)	↓	↑
<i>Average availability of 6 satellites in view</i>	100%	100%	100%	→	→
99.99% Horizontal DOP					
<i>Area Median</i>	1.3	1.4	1.4	↓	→
<i>Worst Site</i>	4.3	3.6	3.2	↑	↑
99.99% Vertical DOP					
<i>Area Median</i>	2.3	2.5	2.5	↓	→
<i>Worst Site</i>	15.9	14.6	13.9	↑	↑
99.99% Position DOP (PDOP)					
<i>Area Median</i>	2.6	2.9	2.9	↓	→
<i>Worst Site</i>	16.5	14.9	14.1	↑	↑
100% RAIM Availability (HAL=185m)					
<i>NPA Service Area (NSA)</i>	72.87%	70.84%	72.63%	↓	↑
<i>World</i>	73.40%	69.93%	57.30%	↓	↓
Accuracy Parameters					
RMS Single Frequency User Range Error					
<i>Constellation Median</i>	1.57	1.64	1.78	↓	↓
<i>Worst Satellite</i>	20.74	10.08	12.50	↑	↓
95% Horizontal Error					
<i>Area Median</i>	1.80	1.69	1.86	↓	↓
<i>Worst Site</i>	4.67	3.27	3.79	↑	↓
<i>Availability (% <4.5m (historical 3-sigma))</i>	99.90%	99.94%	99.93%	↑	↓
95% Vertical Error					
<i>Area Median</i>	3.81	3.98	4.37	↓	↓
<i>Worst Site</i>	6.43	4.76	4.94	↑	↓
<i>Availability (% < 9m (historical 3-sigma))</i>	99.99%	100%	99.99%	→	↓

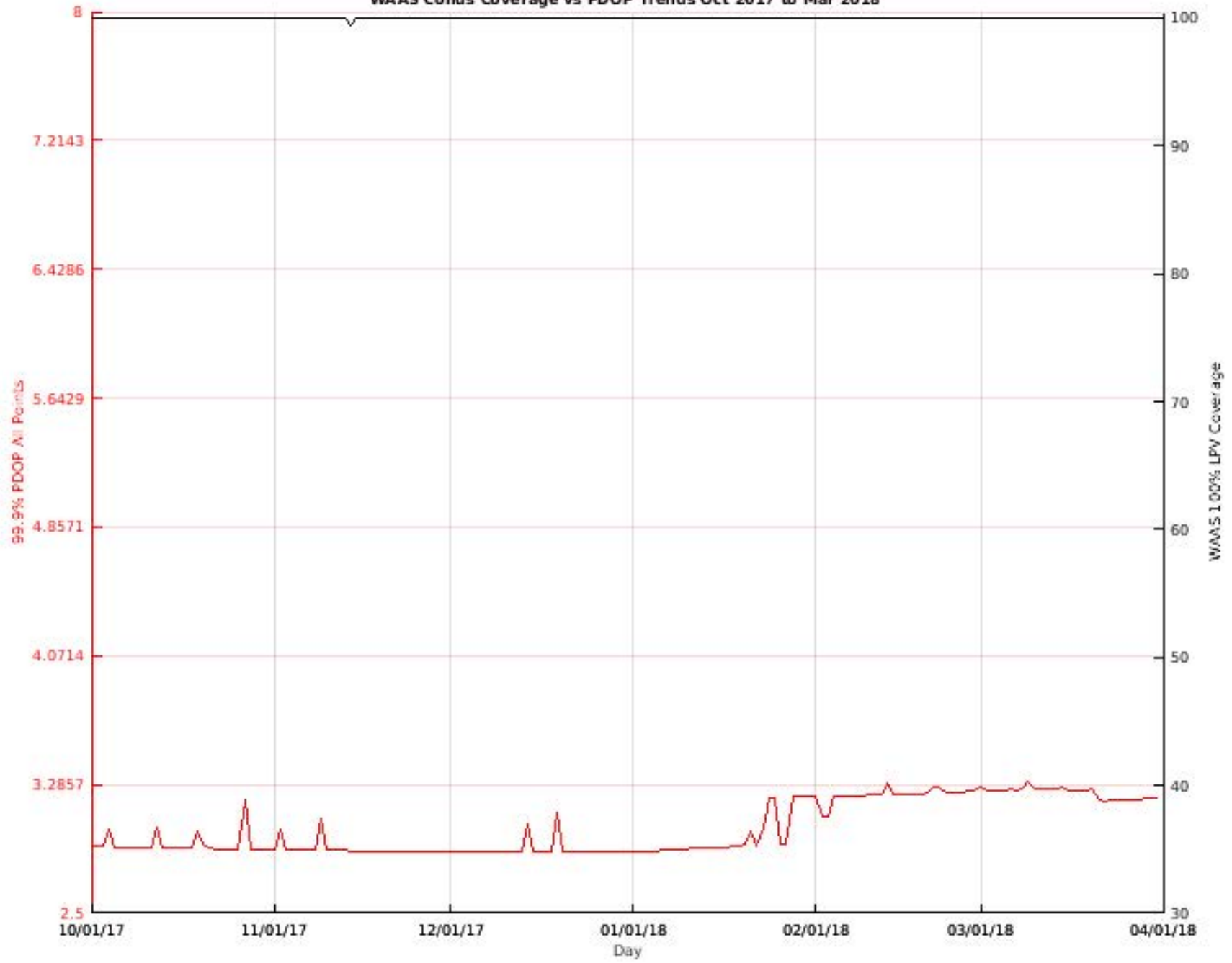
Key: ↑ improving ↓ worsening → no significant change

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

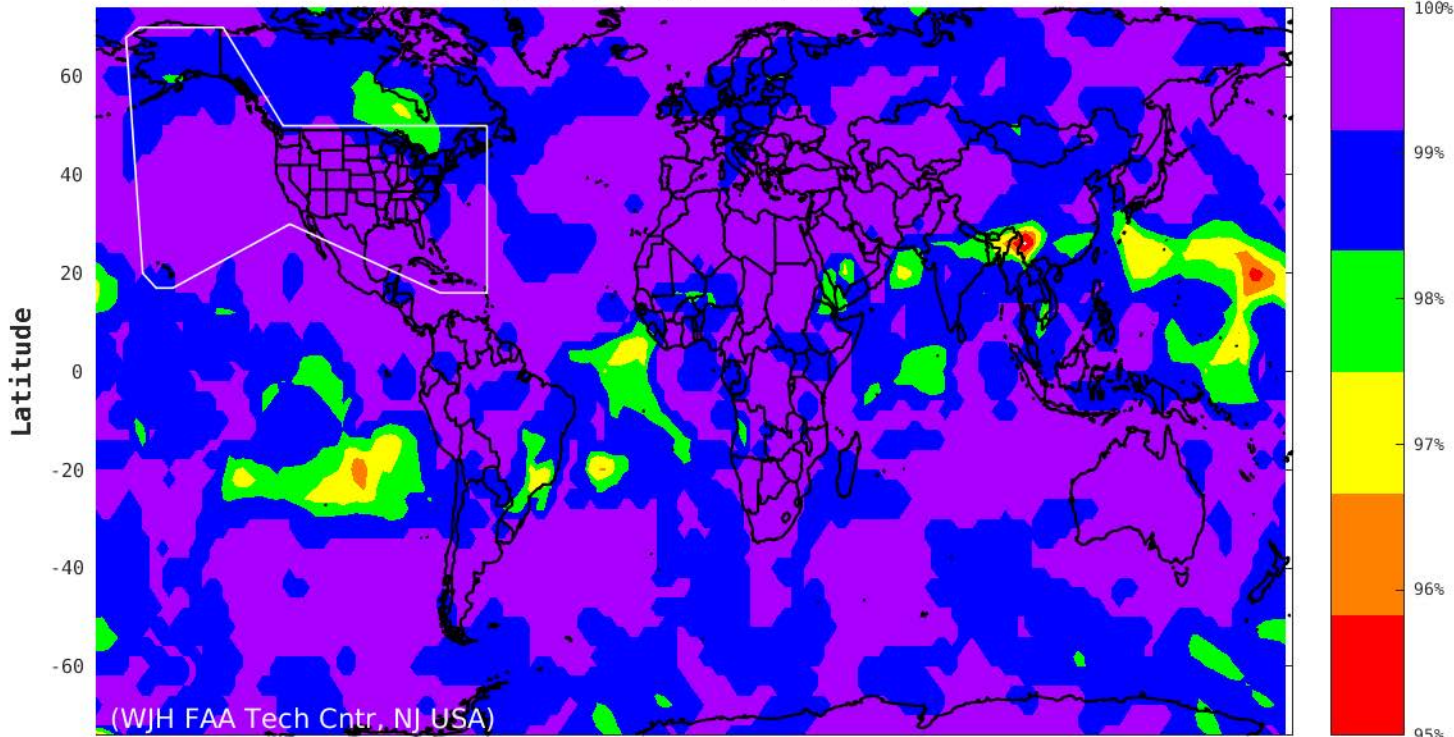
PDOP Trends Oct 2017 thru Mar 2018



WAAS Conus Coverage vs PDOP Trends Oct 2017 to Mar 2018



**SPS RAIM RNP 0.1 (HAL = 185m) Availability
 FD Only, SA Off, without Baro-Aiding
 Mar 1 - Mar 31, 2018**

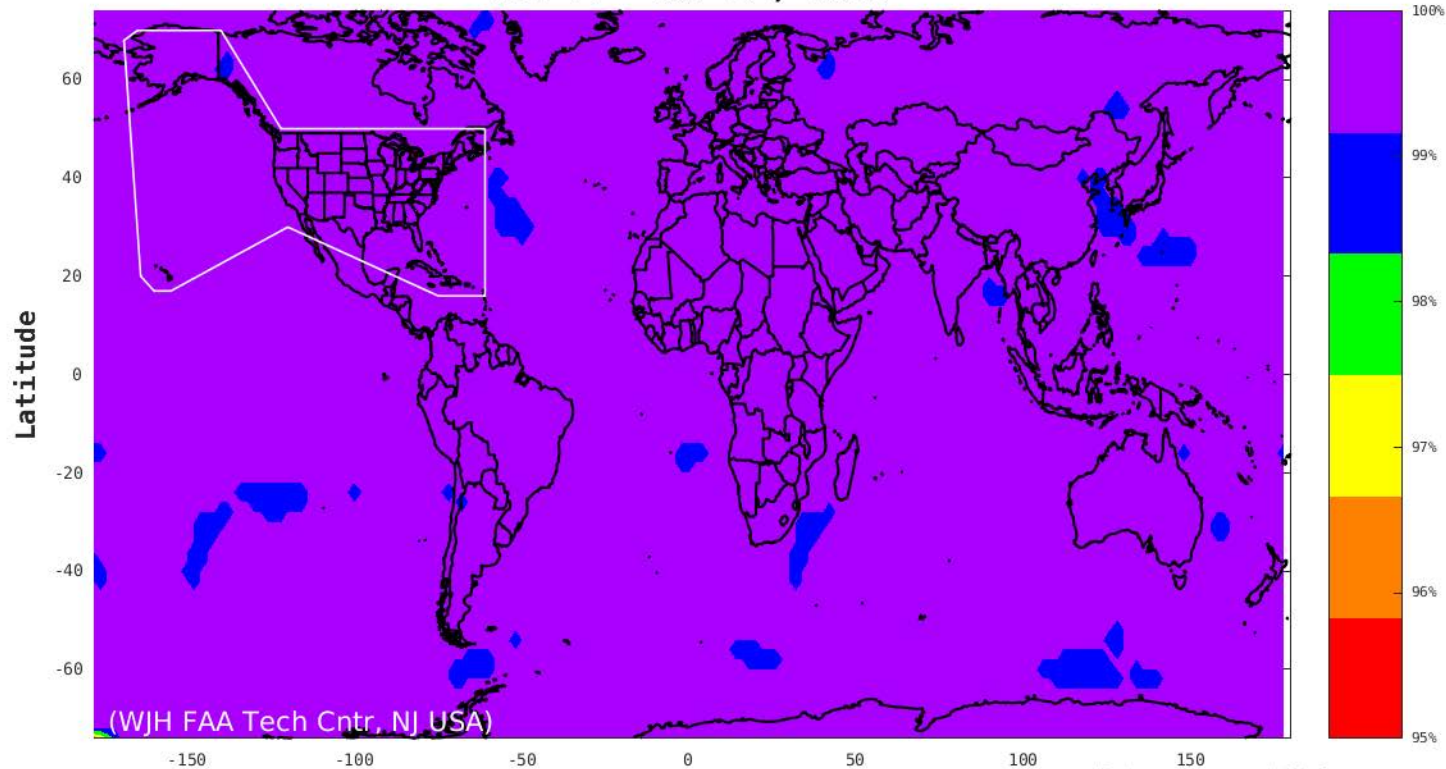


W.J.H. FAA Technical Center
 WAAS Test Team
 04/05/18

Longitude (2 degree sample size)

100 Percent Avail.	150 WNR Coverage	Global
95	100.00%	99.99%
98	100.00%	98.27%
99	97.58%	93.33%
100	72.63%	57.30%

**SPS RAIM RNP 0.3 (HAL = 556m) Availability
FD Only, SA Off, without Baro-Aiding
Mar 1 - Mar 31, 2018**



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Percent Avail.	WNR Coverage	Global
95	100.00%	100.00%
98	100.00%	100.00%
99	100.00%	100.00%
100	99.68%	98.45%

GPS World PDOP 99.99% Index Mar 2018

