

Civil Report Card On GPS Performance

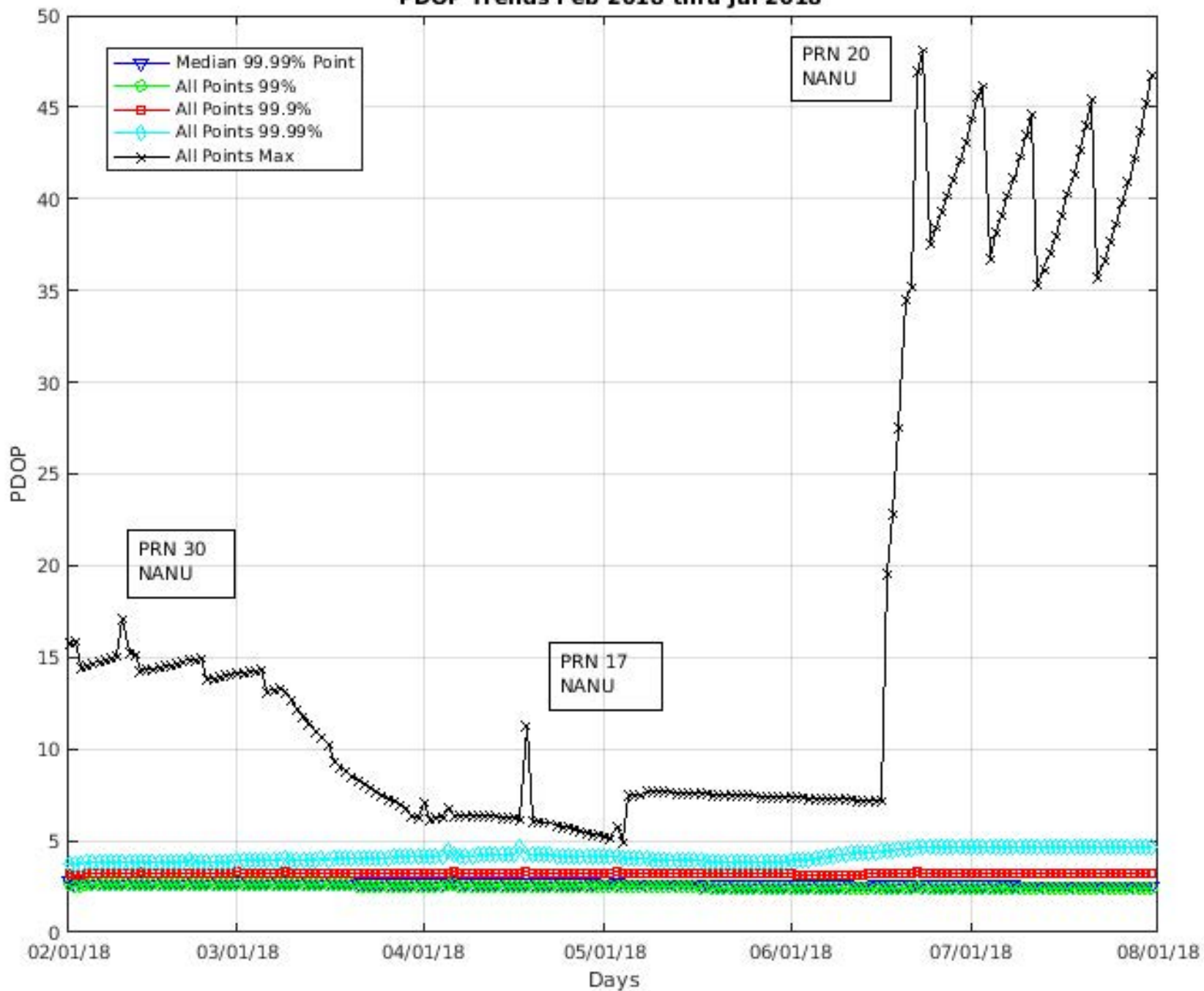
Jul 2018

Operational Performance Parameter	CY 2017	Jun 2018	Jul 2018	Long term	Short term
Availability Parameters					
<i>Average Number of satellites usable</i>	30.97	30.99	31.00	↑	↑
<i>Average number of satellites usable in primary slots</i>	23.97 (99.88%)	23.99 (99.96%)	24.00 100%	↑	↑
<i>Average availability of 6 satellites in view</i>	100%	100%	100%	→	→
99.99% Horizontal DOP					
<i>Area Median</i>	1.3	1.3	1.3	→	→
<i>Worst Site</i>	4.3	8.7	9.4	↓	↓
99.99% Vertical DOP					
<i>Area Median</i>	2.3	2.3	2.2	↑	↑
<i>Worst Site</i>	15.9	40.2	43.9	↓	↓
99.99% Position DOP (PDOP)					
<i>Area Median</i>	2.6	2.7	2.6	→	↑
<i>Worst Site</i>	16.5	41.1	44.9	↓	↓
100% RAIM Availability (HAL=185m)					
<i>NPA Service Area (NSA)</i>	72.87%	76.21%	86.84%	↑	↑
<i>World</i>	73.40%	70.05%	76.93%	↑	↑
Accuracy Parameters					
RMS Single Frequency User Range Error					
<i>Constellation Median</i>	1.57	1.37	1.31	↑	↑
<i>Worst Satellite</i>	20.74	8.16	9.77	↑	↓
95% Horizontal Error					
<i>Area Median</i>	1.80	1.59	1.54	↑	↑
<i>Worst Site</i>	4.67	2.34	2.38	↑	↓
<i>Availability (% <4.5m (historical 3-sigma))</i>	99.90%	100%	100%	↑	→
95% Vertical Error					
<i>Area Median</i>	3.81	3.30	3.10	↑	↑
<i>Worst Site</i>	6.43	4.02	3.99	↑	↑
<i>Availability (% < 9m (historical 3-sigma))</i>	99.99%	100%	100%	↑	→

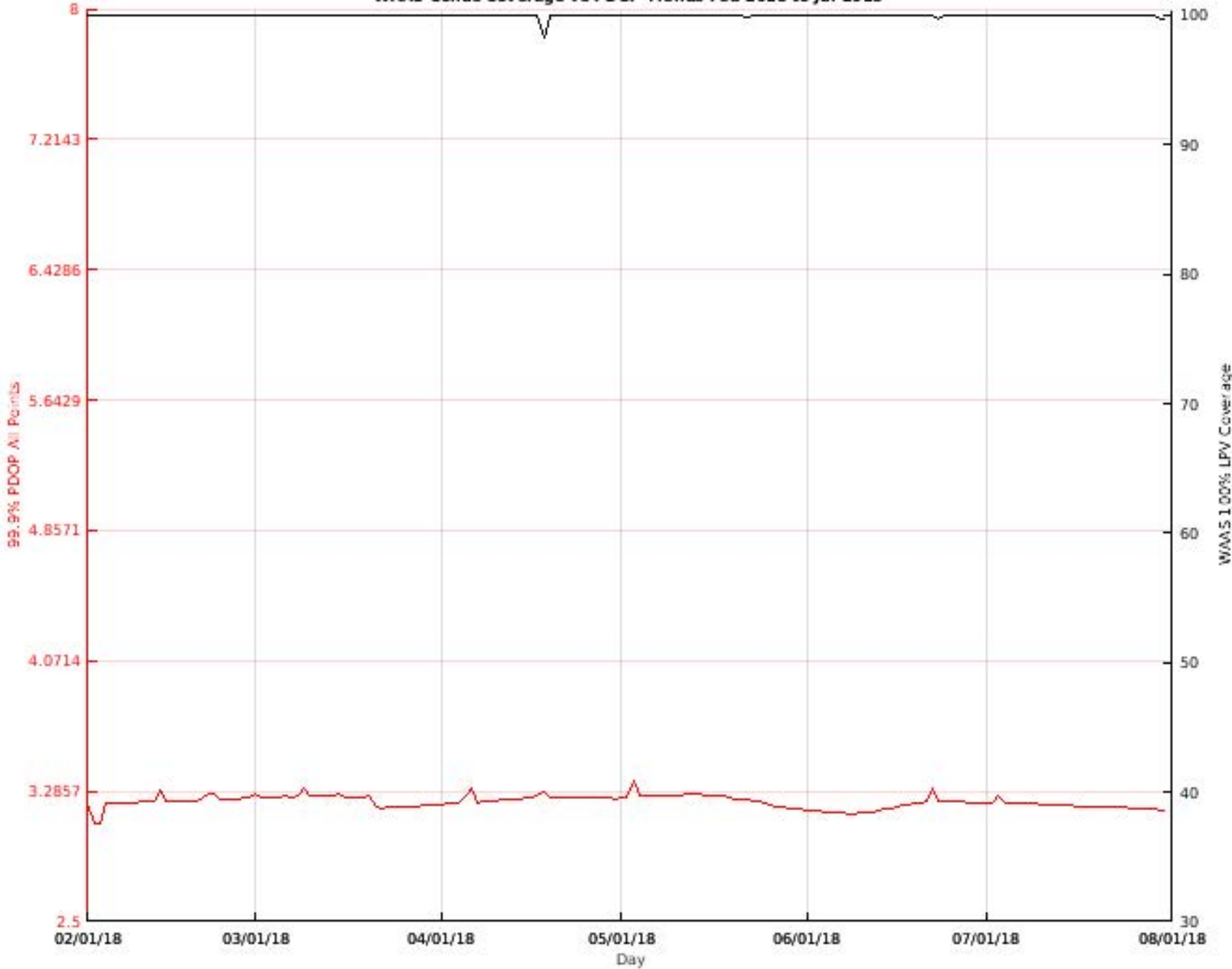
Key: ↑ improving ↓ worsening → no significant change

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

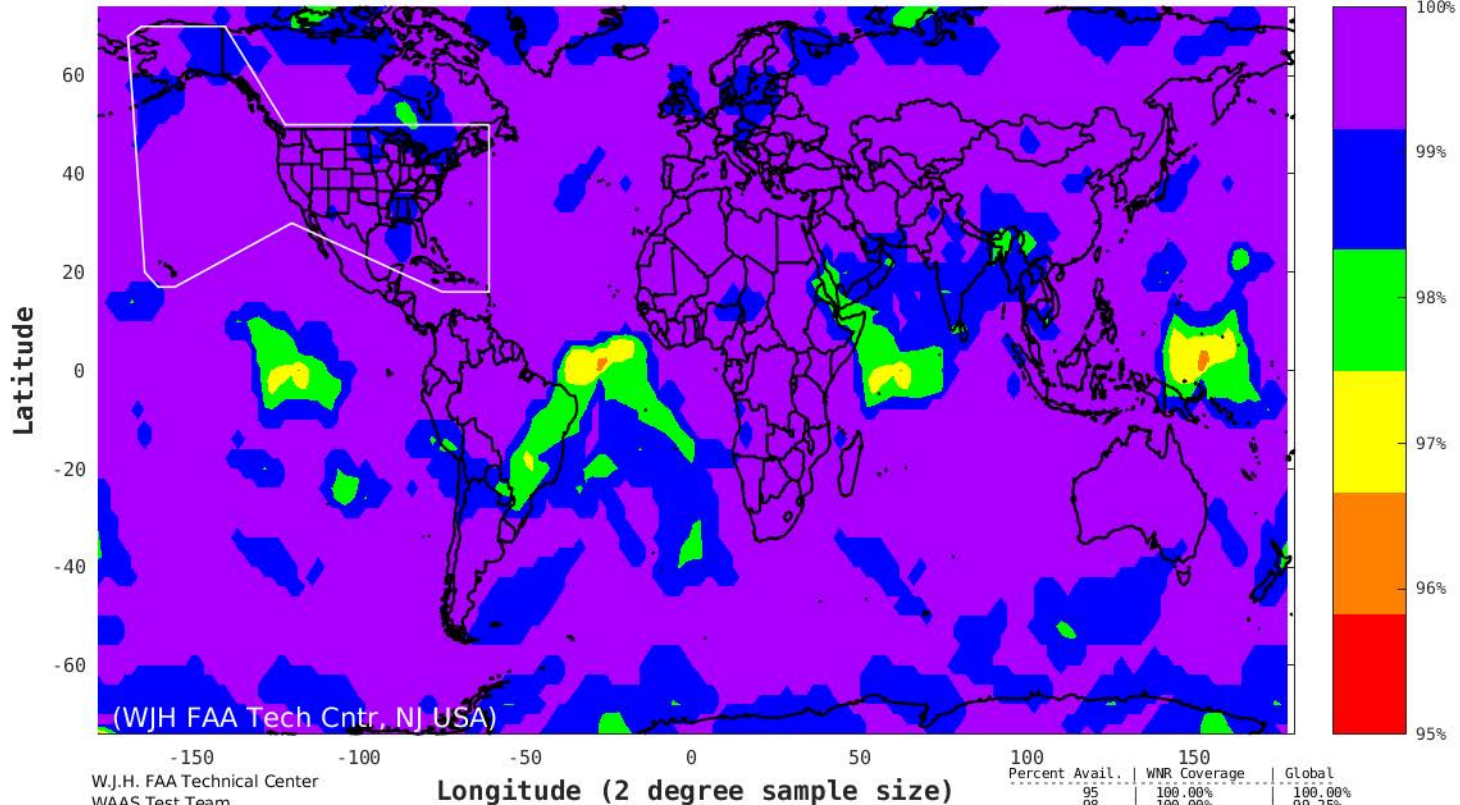
PDOP Trends Feb 2018 thru Jul 2018



WAAS Conus Coverage vs PDOP Trends Feb 2018 to Jul 2018

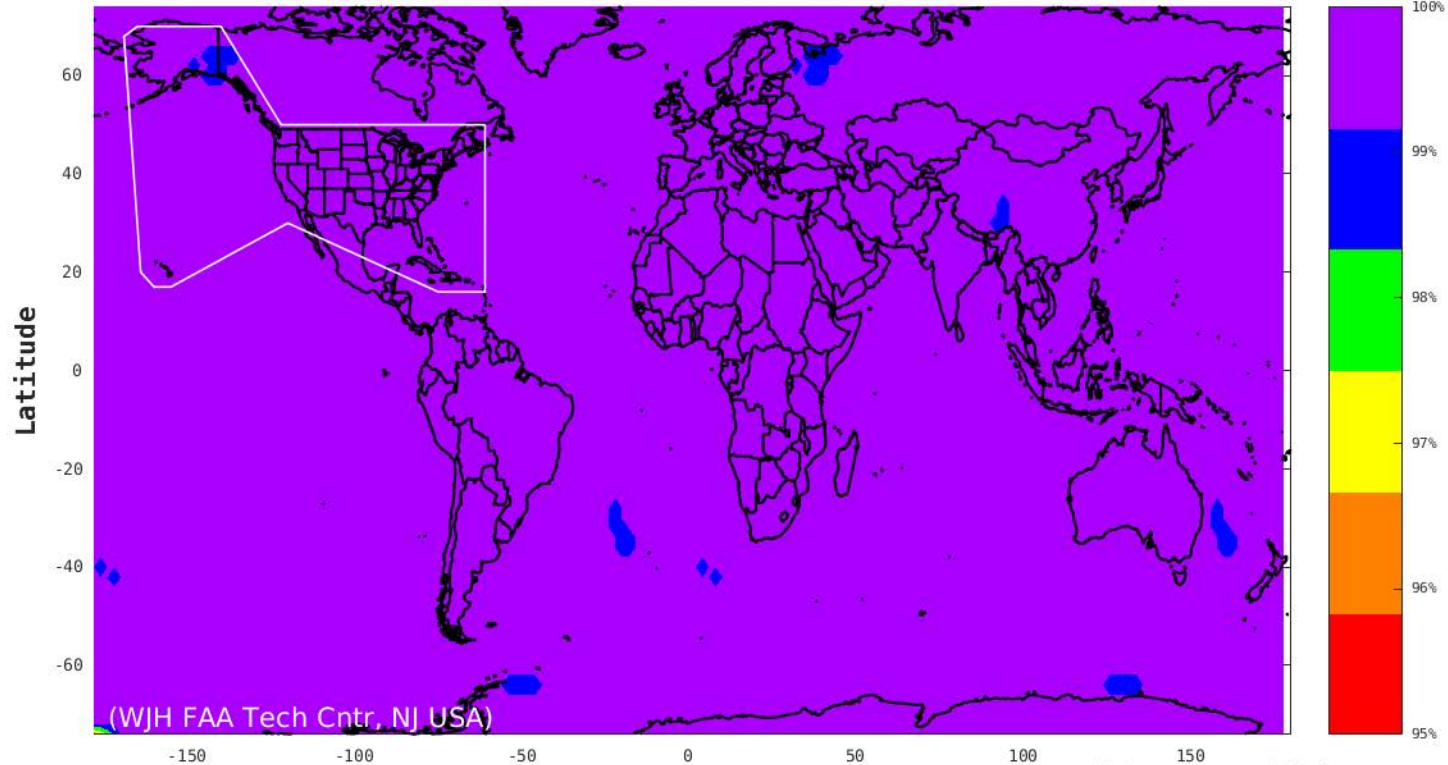


**SPS RAIM RNP 0.1 (HAL = 185m) Availability
 FD Only, SA Off, without Baro-Aiding
 Jul 1 - Jul 31, 2018**



W.J.H. FAA Technical Center
 WAAS Test Team
 08/09/18

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



W.J.H. FAA Technical Center
 WAAS Test Team
 08/09/18

100	150	Global
Percent Avail.	WNR Coverage	
95	100.00%	100.00%
98	100.00%	100.00%
99	100.00%	100.00%
100	98.84%	99.59%

GPS World PDOP 99.99% Index Jul 2018

