

Civil Report Card On GPS Performance

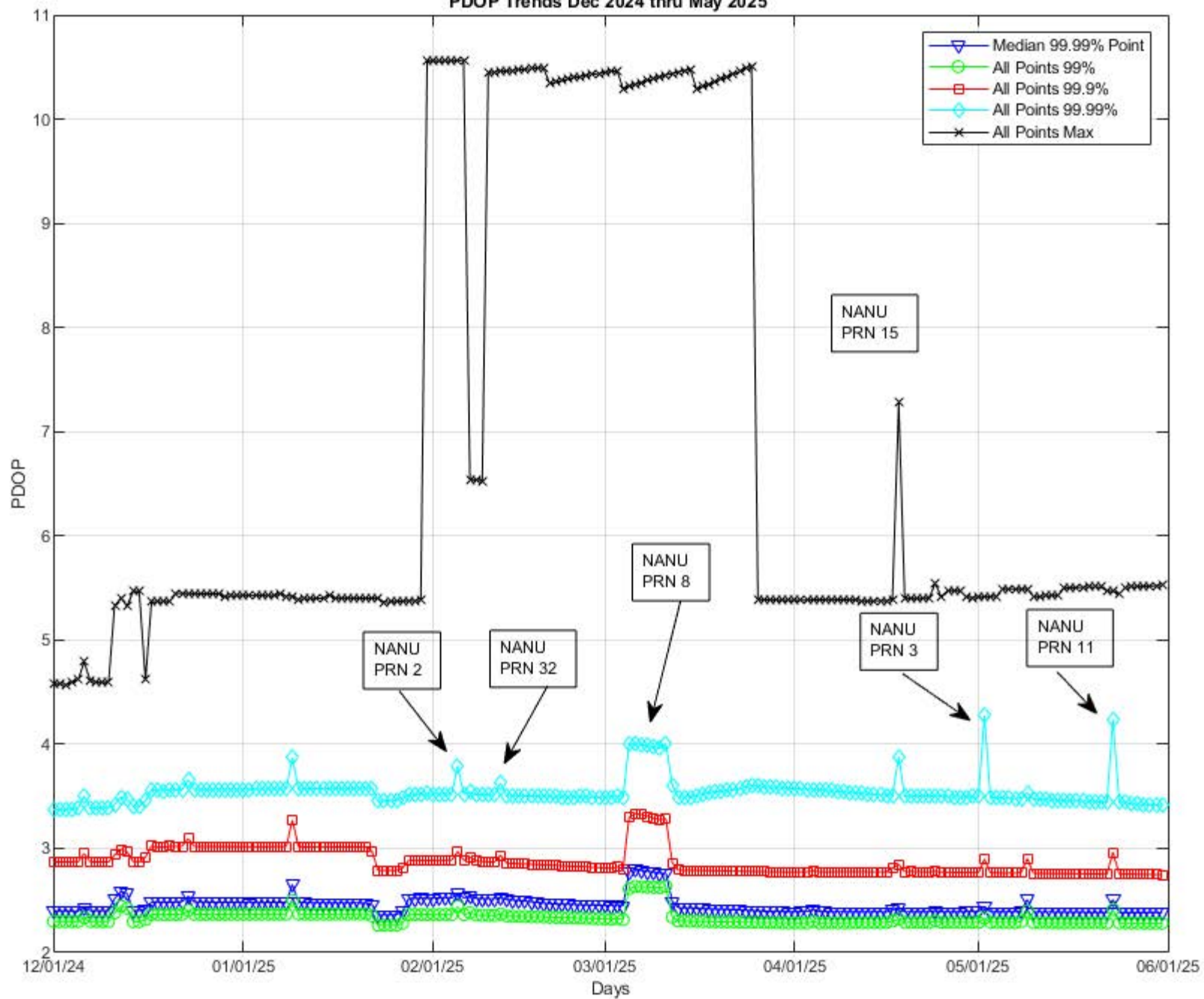
May 2025

Operational Performance Parameter	CY 2024	Apr 2025	May 2025	Long term	Short term
Availability Parameters					
<i>Average Number of satellites usable</i>	30.71	30.96	30.95	↑	↓
<i>Average number of satellites usable in primary slots</i>	23.78 (99.08%)	24.00 (100%)	23.95 (99.81%)	↑	↓
<i>Average availability of 6 satellites in view</i>	100%	100%	100%	→	→
99.99% Horizontal DOP					
<i>Area Median</i>	1.29	1.25	1.32	↓	↓
<i>Worst Site</i>	4.54	2.51	2.56	↑	↓
99.99% Vertical DOP					
<i>Area Median</i>	2.26	2.21	2.32	↓	↓
<i>Worst Site</i>	9.85	5.25	4.99	↑	↑
99.99% Position DOP (PDOP)					
<i>Area Median</i>	2.57	2.48	2.62	↓	↓
<i>Worst Site</i>	10.50	5.46	5.51	↑	↓
100% RAIM Availability (HAL=185m)					
<i>NPA Service Area (NSA)</i>	76.12%	89.16%	54.74%	↓	↓
<i>World</i>	78.14%	92.79%	70.22%	↓	↓
Accuracy Parameters					
RMS Single Frequency User Range Error					
<i>Constellation Median (m)</i>	2.41	2.59	2.05	↑	↑
<i>Worst Satellite (m)</i>	48.54	29.84	25.42	↑	↑
95% Horizontal Error					
<i>Area Median (m)</i>	3.52	4.06	3.08	↑	↑
<i>Worst Site (m)</i>	15.12	10.71	7.72	↑	↑
<i>Availability (% <4.5m (historical 3-sigma))</i>	95.96%	95.47%	98.02%	↑	↑
95% Vertical Error					
<i>Area Median (m)</i>	5.30	6.08	4.40	↑	↑
<i>Worst Site (m)</i>	12.78	10.38	6.61	↑	↑
<i>Availability (% < 9m (historical 3-sigma))</i>	98.68%	99.10%	99.87%	↑	↑

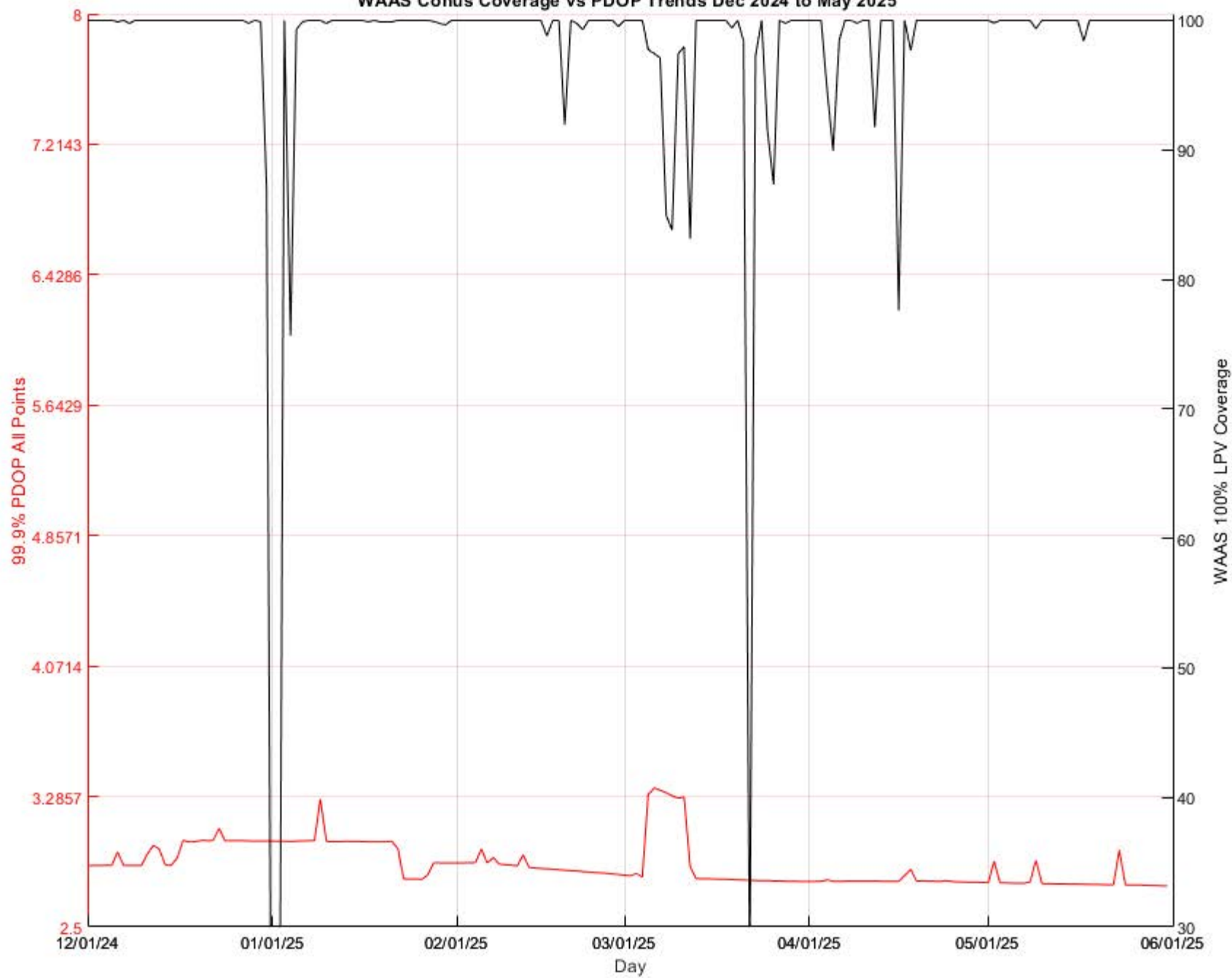
Key: ↑ improving ↓ worsening → no significant change

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

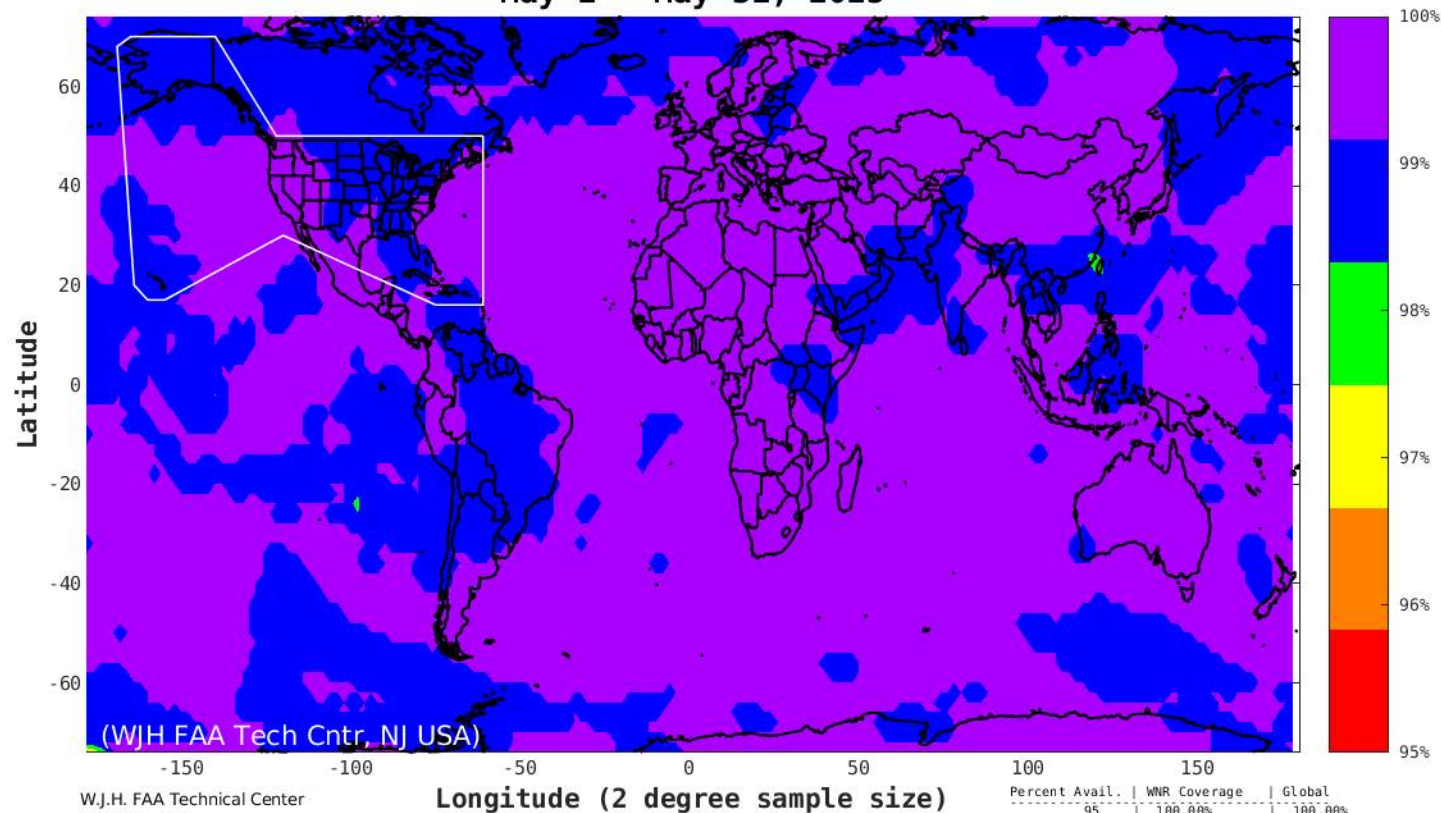
PDOP Trends Dec 2024 thru May 2025



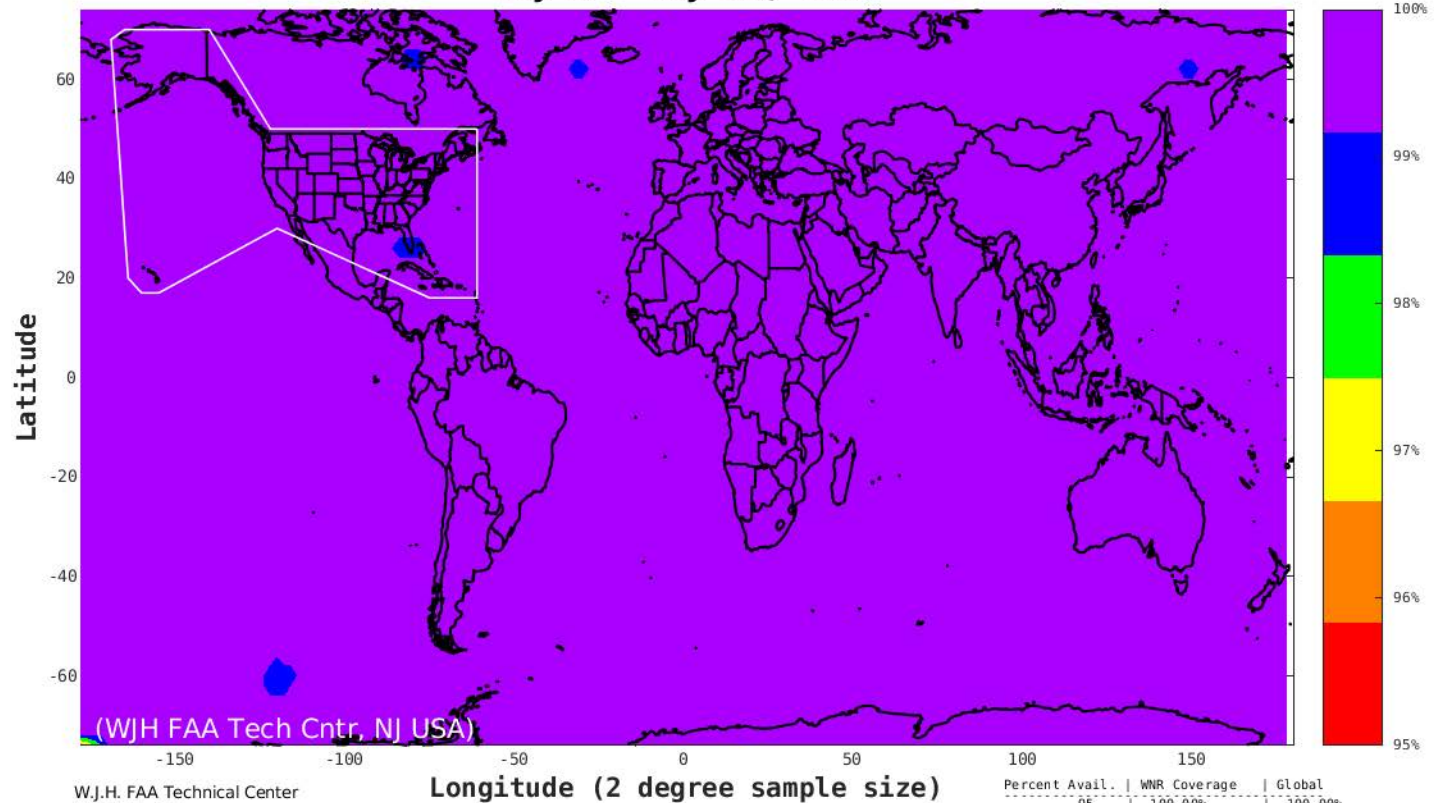
WAAS Conus Coverage vs PDOP Trends Dec 2024 to May 2025



SPS RAIM RNP 0.1 (HAL = 185m) Availability
 FD Only, SA Off, without Baro-Aiding
 May 1 - May 31, 2025



SPS RAIM RNP 0.3 (HAL = 556m) Availability
FD Only, SA Off, without Baro-Aiding
May 1 - May 31, 2025



W.J.H. FAA Technical Center
WAAS Test Team
06/04/25

Percent Avail.	WNR Coverage	Global
95	100.00%	100.00%
98	100.00%	100.00%
99	100.00%	100.00%
100	99.58%	99.86%

GPS World PDOP 99.99% Index May 2025

