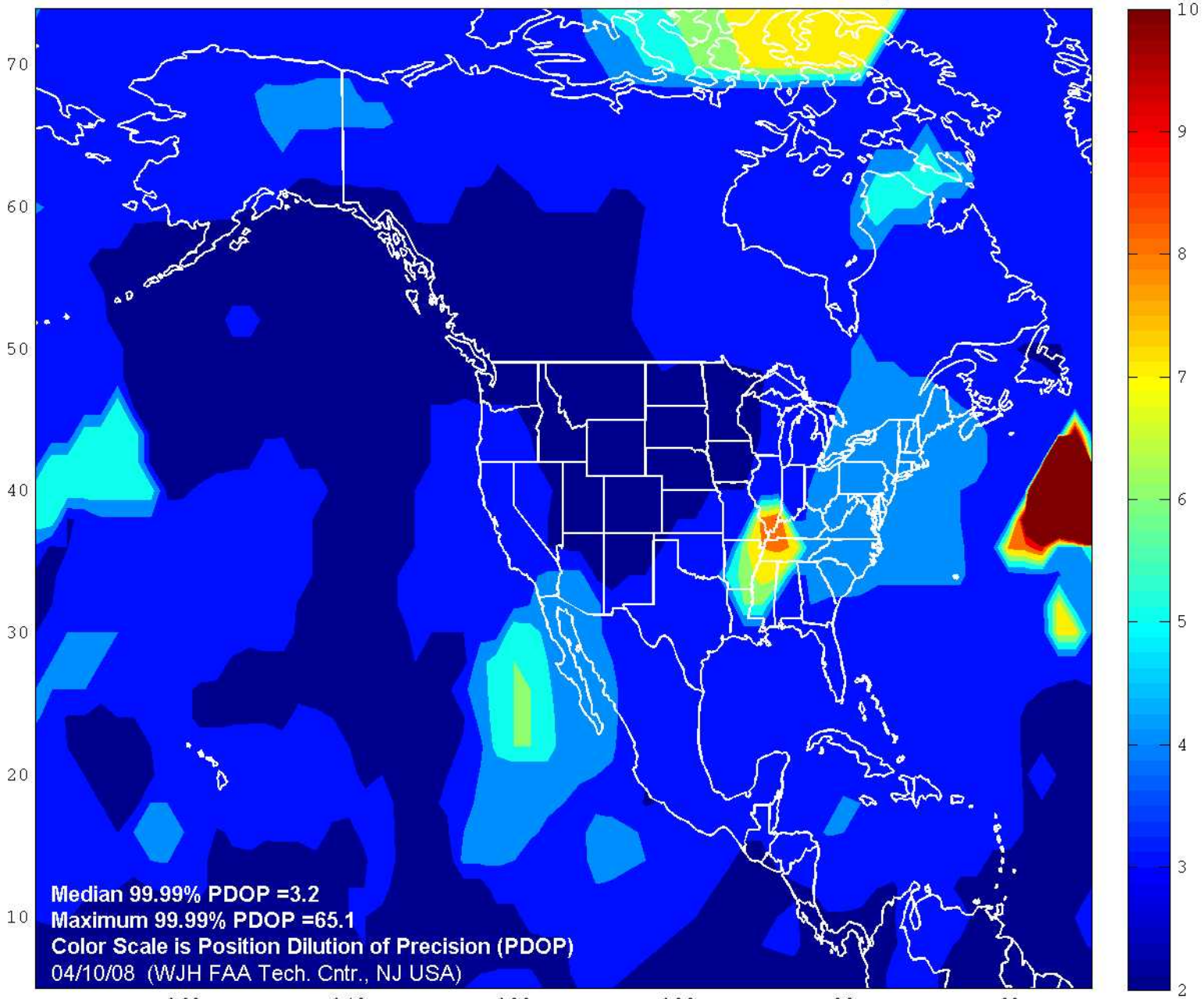
Civil Report Card On GPS Performance
January 2008

Operational Performance Parameter	CY 2007	Dec 2007	Jan 2008	Long term	Short term
Availability Parameters					
Average Number of satellites usable	29.80	30	29.93	↑	→
Average number of satellites usable in primary slots	23.91 (99.62%)	24 (100%)	23.94 (99.75%)	↑	↓
Average availability of 6 satellites in view	99.99%	99.99%	99.99%	→	→
99.99% Horizontal DOP					
Area Median	1.8	1.5	1.6	↑	→
Worst Site	3.4	3.0	15.3	↓	↓
99.99% Vertical DOP					
Area Median	3.3	2.5	2.8	↑	↓
Worst Site	7.4	7.1	63.6	↓	↓
99.99% Position DOP (PDOP)					
Area Median	3.6	2.8	3.2	↑	↓
Worst Site	7.8	7.6	65.1	↓	↓
Accuracy Parameters					
RMS Single Frequency User Range Error					
Constellation Median	1.77	1.91	1.77	→	→
Worst Satellite	2.29	2.71	2.62	↓	→
95% Horizontal Error					
Area Median	2.32	2.49	2.33	→	→
Worst Site	3.63	2.94	3.32	↑	↓
Availability (% <4.5m (historical 3-sigma))	99.81%	99.18	99.47%	↓	↑
95% Vertical Error					
Area Median	4.45	4.95	4.53	→	↑
Worst Site	4.95	5.75	5.25	↓	↑
Availability (% < 9m (historical 3-sigma))	99.92%	99.89	99.93%	→	↑

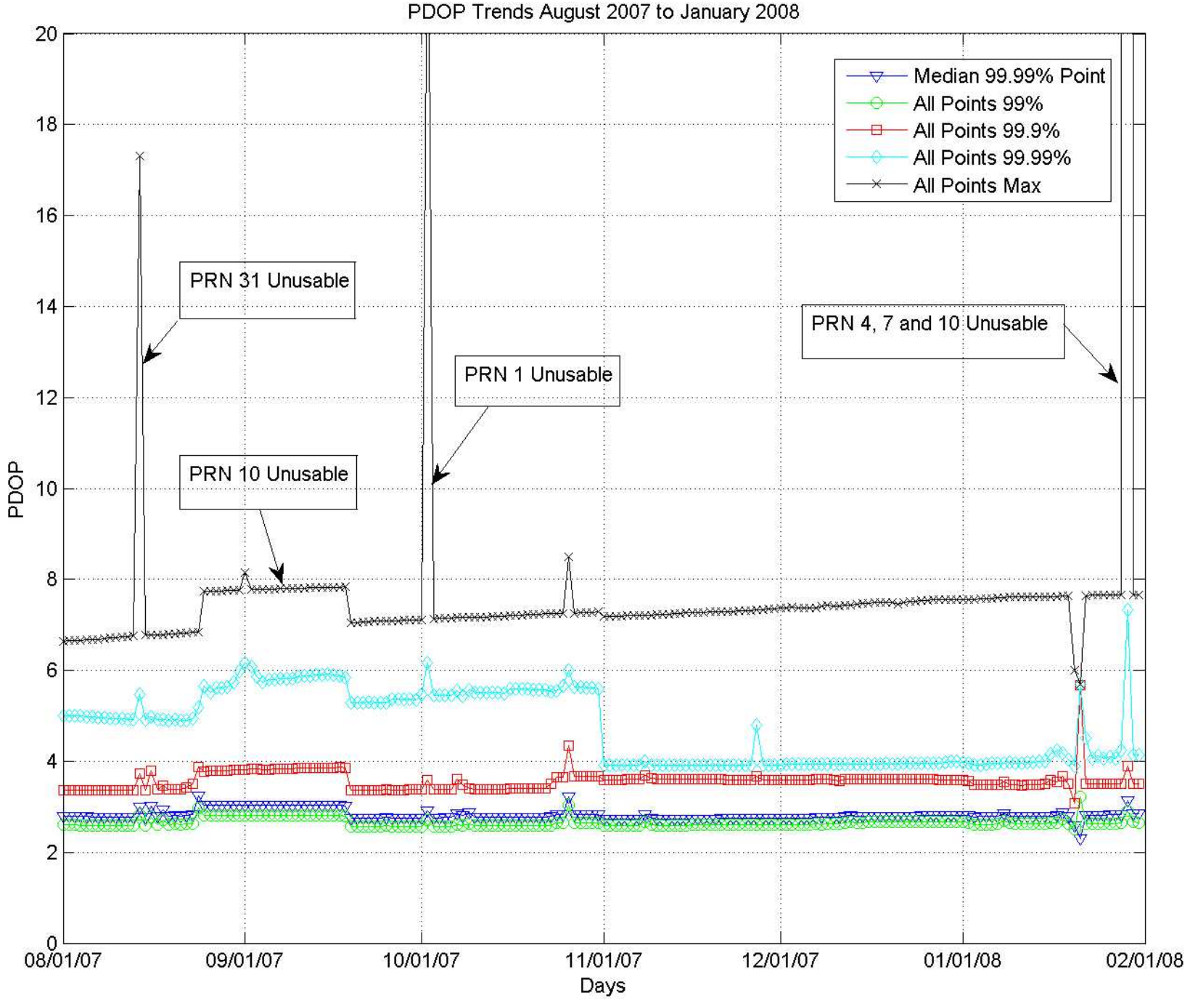
Key: ↑ improving ↓ worsening → no significant change
Long Term is current month vs. prior 24 months, Short Term is current month vs. prior month

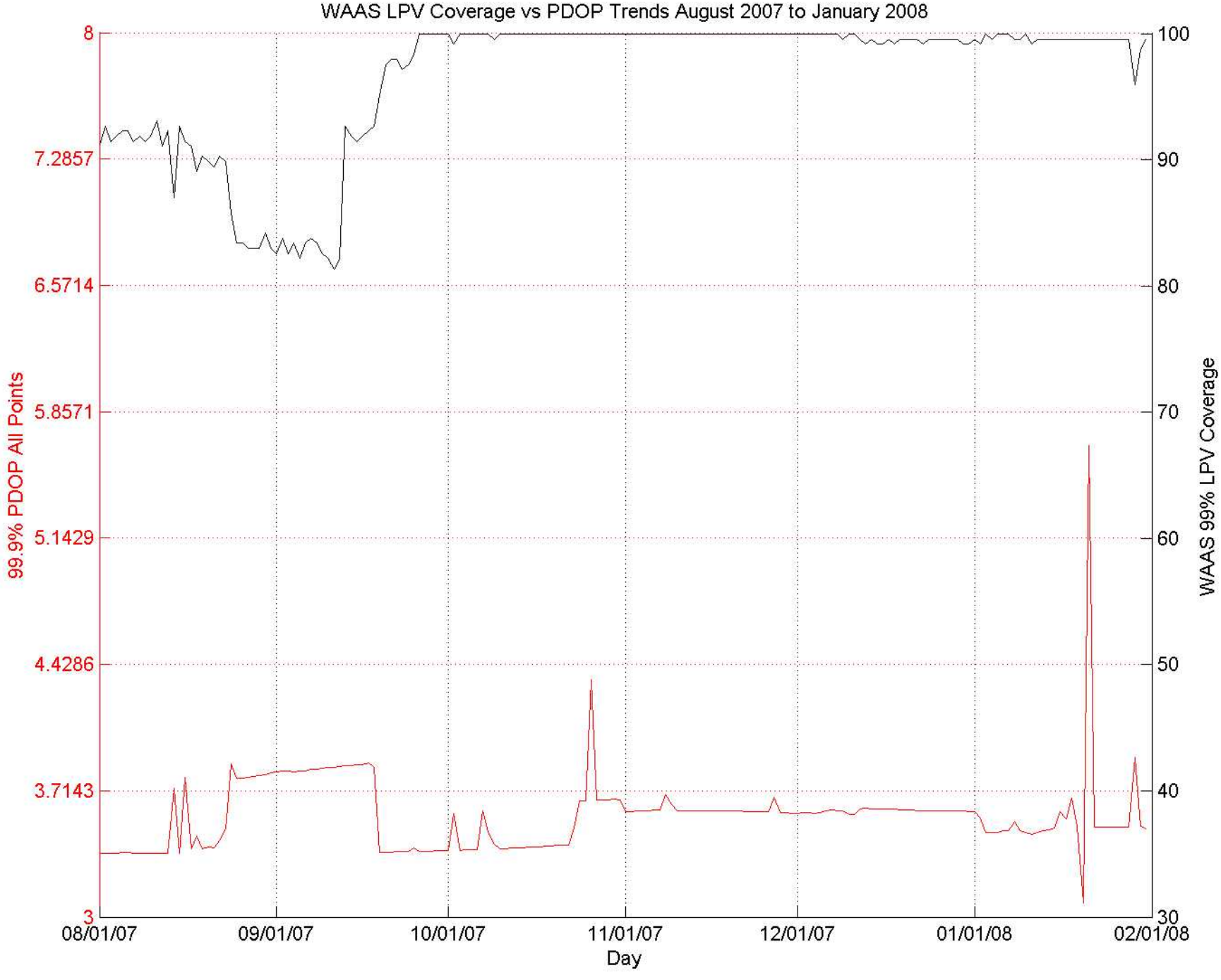
Compiled from WAAS network as requested by the Defense Science Board

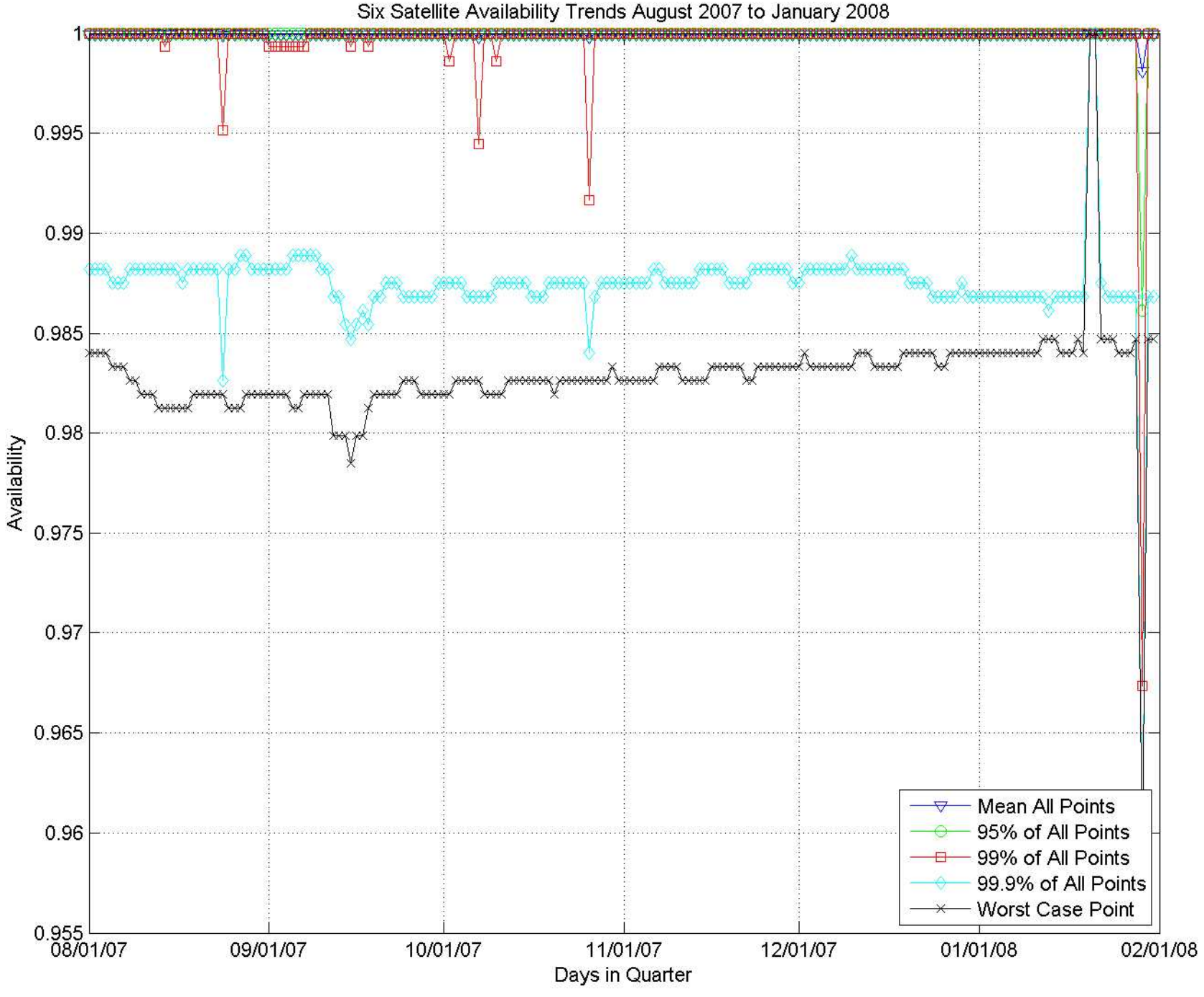
North America GPS PDOP 99.99% Index January 2008



W.J.H. FAA Technical Center
WAAS Test Team
04/10/08


PDOP Trends August 2007 to January 2008
Median 99.99% Point
All Points 99%
All Points 99.9%
All Points 99.99%
All Points Max
PRN 31 Unusable
PRN 10 Unusable
PRN 1 Unusable
PRN 4, 7 and 10 Unusable
PDOP
Days
0
2
4
6
8
10
12
14
16
18
20
08/01/07
09/01/07
10/01/07
11/01/07
12/01/07
01/01/08
02/01/08


WAAS LPV Coverage vs PDOP Trends August 2007 to January 2008
99.9% PDOP All Points
WAAS 99% LPV Coverage
Day
8
7.2857
6.5714
5.8571
5.1429
4.4286
3.7143
3
100
90
80
70
60
50
40
30
08/01/07
09/01/07
10/01/07
11/01/07
12/01/07
01/01/08
02/01/08


Six Satellite Availability Trends August 2007 to January 2008
Availability
1
0.995
0.99
0.985
0.98
0.975
0.97
0.965
0.96
0.955
08/01/07
09/01/07
10/01/07
11/01/07
12/01/07
01/01/08
02/01/08
Days in Quarter
Mean All Points
95% of All Points
99% of All Points
99.9% of All Points
Worst Case Point