Civil Report Card On GPS Performance May 2016

Operational Performance Parameter	CY 2015	Apr 2016	May 2016	Long term	Short term
Availability Parameters					
Average Number of satellites usable	30.50	30.99	30.98	1	•
Average number of satellites usable in primary slots	23.99 (99.94%)	24.00 (100%)	23.99 (99.96%)	1	¥
Average availability of 6 satellites in view	99.99%	100%	99.99%	>	¥
9	9.99% Horizontal D	OP			
Area Median	1.4	1.3	1.3	1	→
Worst Site	9.4	2.1	2.7	^	•
	99.99% Vertical DC	DP			
Area Median	2.5	2.2	2.3	1	•
Worst Site	34.5	7.7	11.1	^	•
99.9	9% Position DOP (PDOP)			_
Area Median	2.8	2.5	2.6	^	→
Worst Site	35.7	7.9	11.3	^	•
100% R	AIM Availability (H	AL=185m)			
NPA Service Area (NSA)	51.34%	93.05%	53.79%	1	→
World	55.97%	83.94%	75.66%	1	•
Accuracy Parameters RMS Singl Constellation Median Worst Satellite	e Frequency User 1.91 2.38	<i>Range Erro</i> 1.87 2.50	r 1.69 2.26	1	^
	95% Horizontal Eri		2.20	T	T
Area Median	2.71	2.30	2.29		
Worst Site	9.02	5.72	4.34		
Availability (% <4.5m (historical 3- sigma))	98.66%	99.39%	99.69%	↑ ↑	
	95% Vertical Erro	r			
Area Median	4.61	4.75	4.32		
Worst Site	8.36	5.93	5.14		
Availability (% < 9m (historical 3- sigma))	99.79%	99.95%	99.98%	1	•

Key: \uparrow improving \checkmark worsening \rightarrow 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

GPS World PDOP 99.99% Index May 2016











