



CENTER FOR ADVANCED AVIATION SYSTEM DEVELOPMENT (CAASD)

BOS Runway 27 Quarterly Report Update

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September 2008

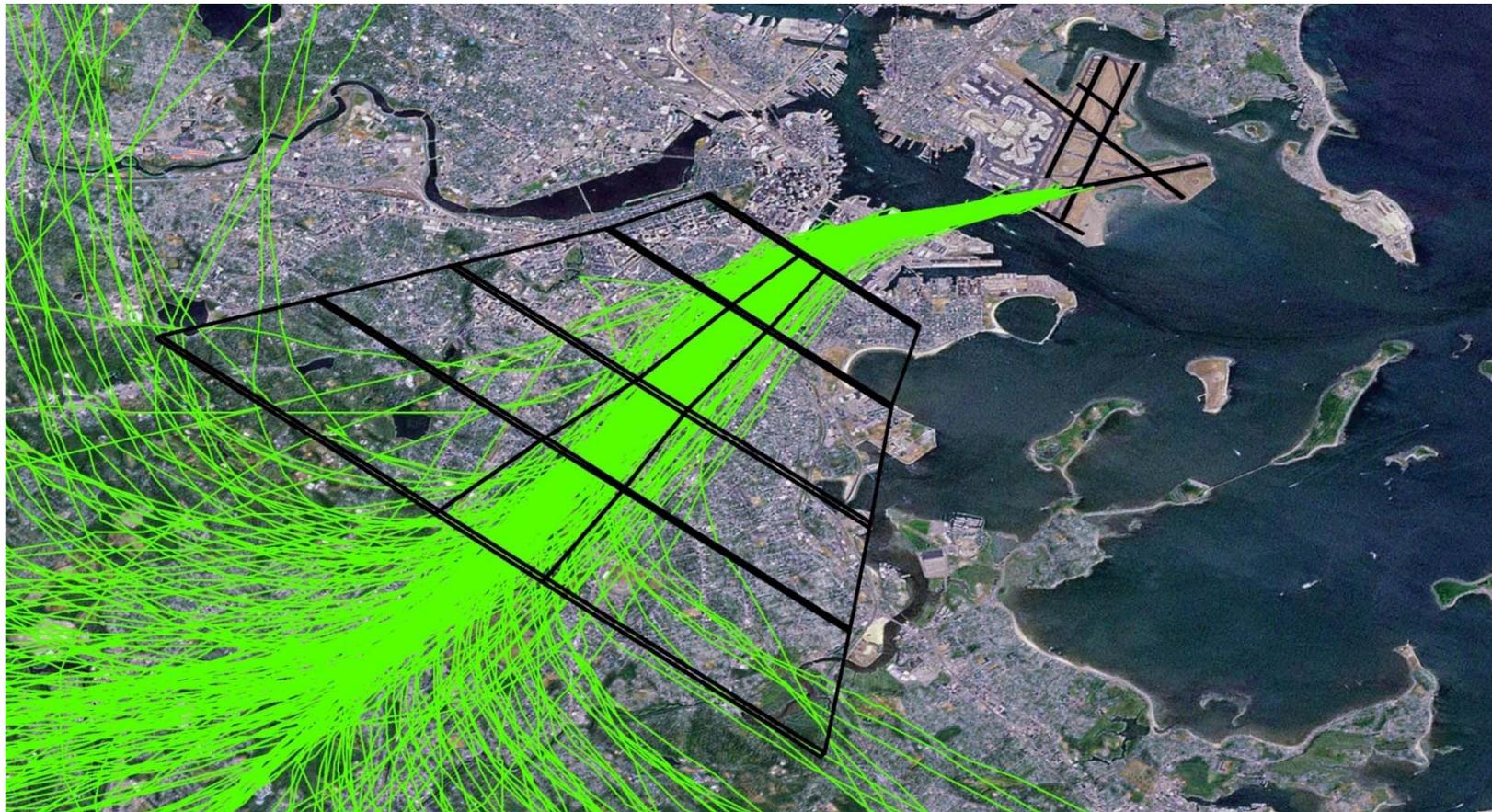


Refined Automation

- **CAASD was tasked to conduct an analysis of jet departures from Boston Logan's Runway 27, which included developing an automated process to facilitate the ongoing reporting of findings**
- **In March 2007, CAASD presented its automation process, and while the process was largely automated, there were still elements of manual sorting**
- **CAASD has updated the automation process to decrease subjectivity within the analysis**
- **The refined automation requires less processing time, less manual sorting of tracks, and is easily repeatable**
- **It can be transferred to any entity with access to the National Offload Program Archive data**



April 2008



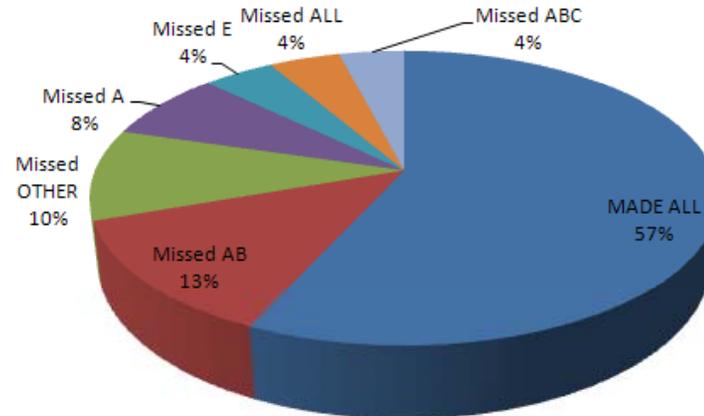
- 257 Total Tracks
- 55.3% Compliant

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F063-B08-042

April 2008 (concluded)

TOP 7 Compliance Categories

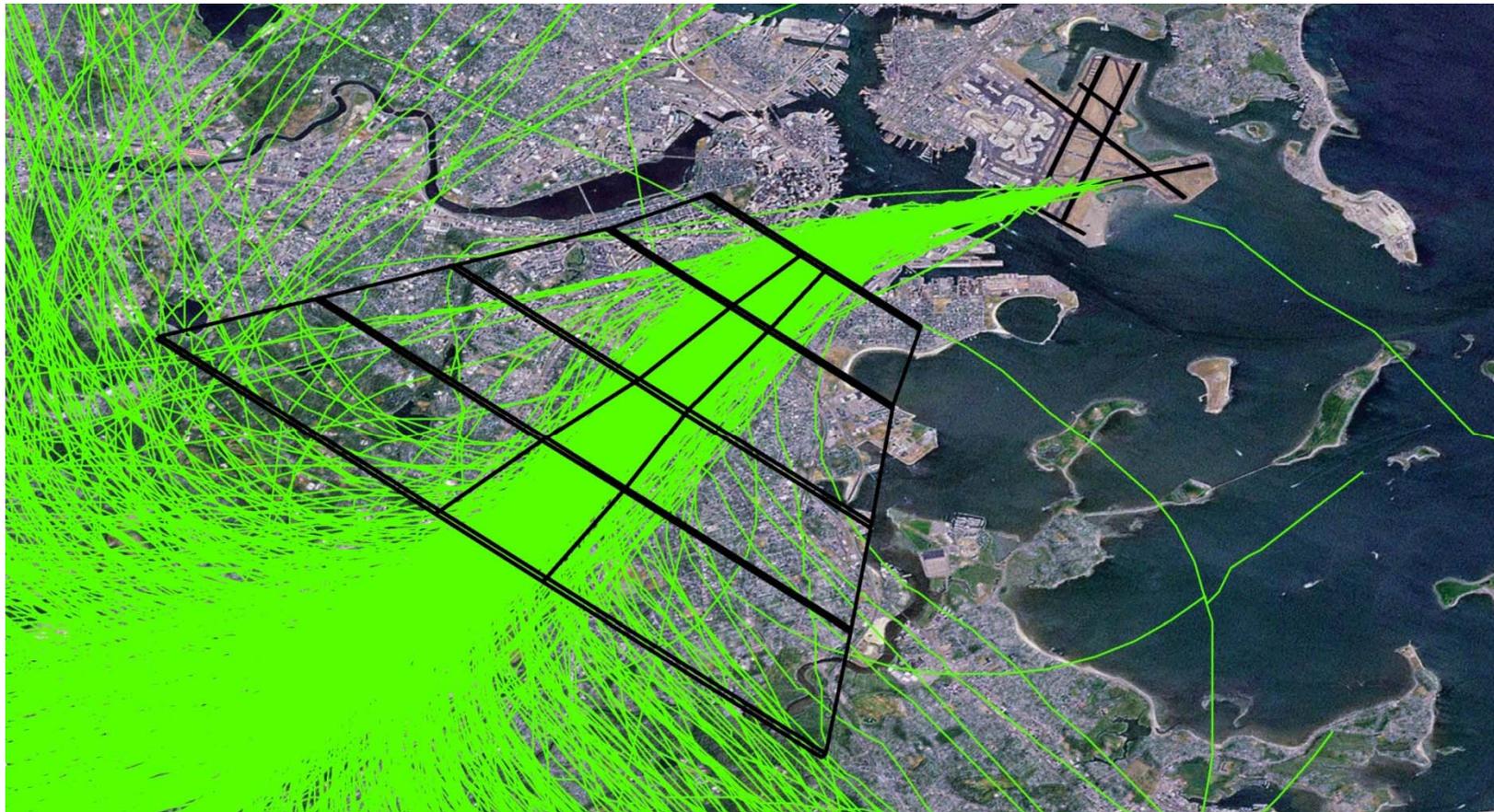


Monthly Compliance Totals

YEAR	MONTH	Total # of Tracks	Total # of Tracks Through All Gates	Percent of Tracks Through All Gates	Gate A 1,400 ft	Gate B 2,200 ft	Gate C of 2,900 ft	Gate D 4,700 ft	Gate E 6,300 ft	Gate A 1,400 ft	Gate B 2,200 ft	Gate C of 2,900 ft	Gate D 4,700 ft	Gate E 6,300 ft	Average Percent through Each Gate
2007	April	1059	625	59.0	742	810	921	998	952	70.1	76.5	87.0	94.2	89.9	83.5
2007	May	641	379	59.1	423	481	566	609	592	66.0	75.0	88.3	95.0	92.4	83.3
2007	June	442	268	60.6	318	333	377	404	394	71.9	75.3	85.3	91.4	89.1	82.6
2007	July	563	320	56.8	369	401	482	527	517	65.5	71.2	85.6	93.6	91.8	81.6
2007	August	804	484	60.2	572	597	709	751	731	71.1	74.3	88.2	93.4	90.9	83.6
2007	September	1238	720	58.2	859	934	1086	1171	1127	69.4	75.4	87.7	94.6	91.0	83.6
2007	October	599	354	59.1	409	456	515	563	546	68.3	76.1	86.0	94.0	91.2	83.1
2007	November	606	316	52.1	398	445	527	557	514	65.7	73.4	87.0	91.9	84.8	80.6
2007	December	1188	616	51.9	811	887	1001	1066	987	68.3	74.7	84.3	89.7	83.1	80.0
2008	January	1398	826	59.1	969	1060	1237	1323	1271	69.3	75.8	88.5	94.6	90.9	83.8
2008	February	830	432	52.0	543	595	689	739	707	65.4	71.7	83.0	89.0	85.2	78.9
2008	March	1155	657	56.9	780	856	1027	1094	1039	67.5	74.1	88.9	94.7	90.0	83.0
2008	April	257	142	55.3	174	184	219	231	217	67.7	71.6	85.2	89.9	84.4	79.8

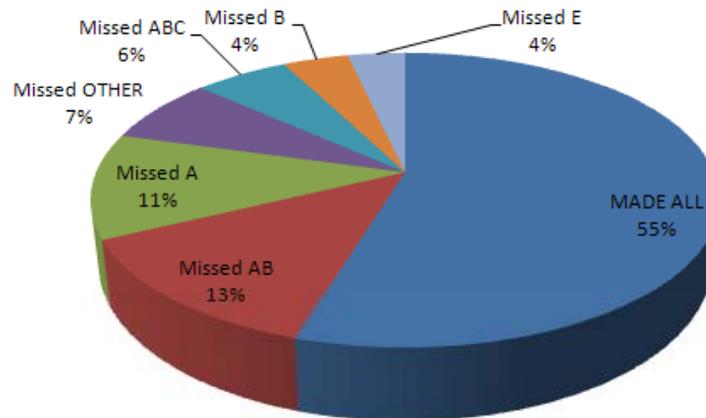


May 2008



- 1,041 Total Tracks
- 53.4% Compliant

May 2008 (concluded)



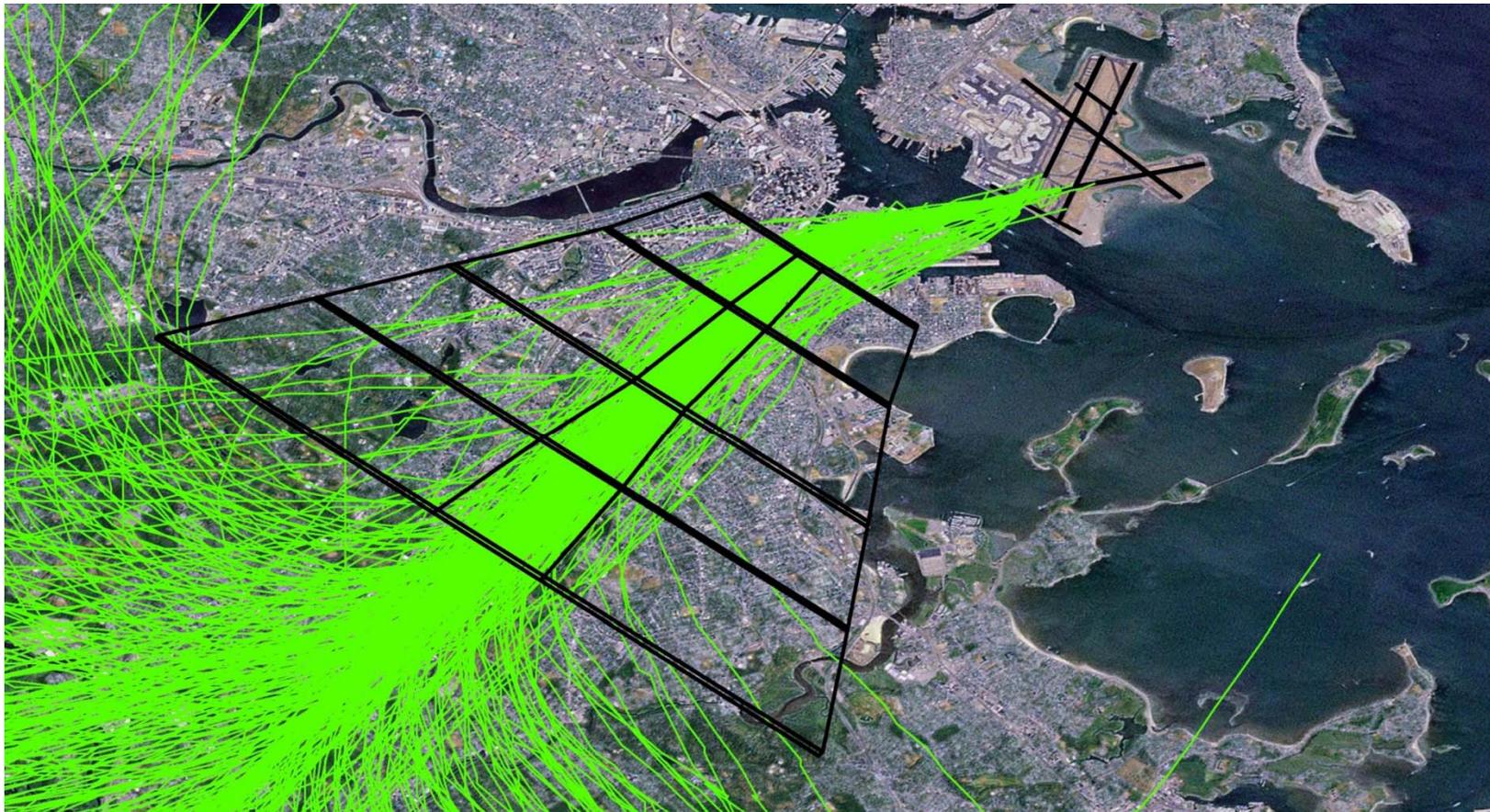
TOP 7 Compliance Categories

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2008	April	257	142	55.3	174	184	219	231	217	67.7	71.6	85.2	89.9	84.4	79.8
2008	May	1041	556	53.4	674	745	901	972	934	64.7	71.6	86.6	93.4	89.7	81.2



June 2008

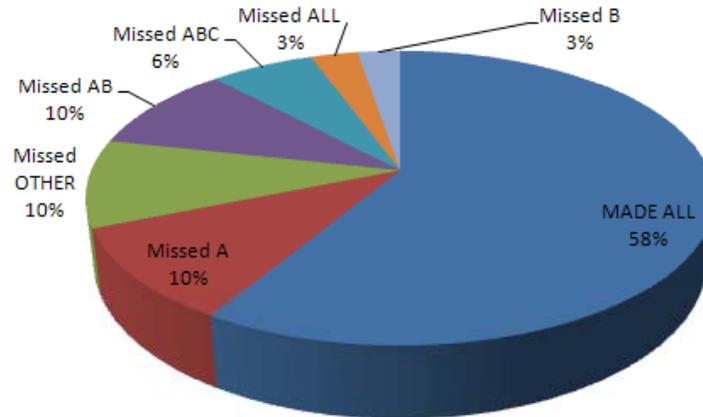


- 351 Total Tracks
- 57.3% Compliant



June 2008 (concluded)

TOP 7 Compliance Categories

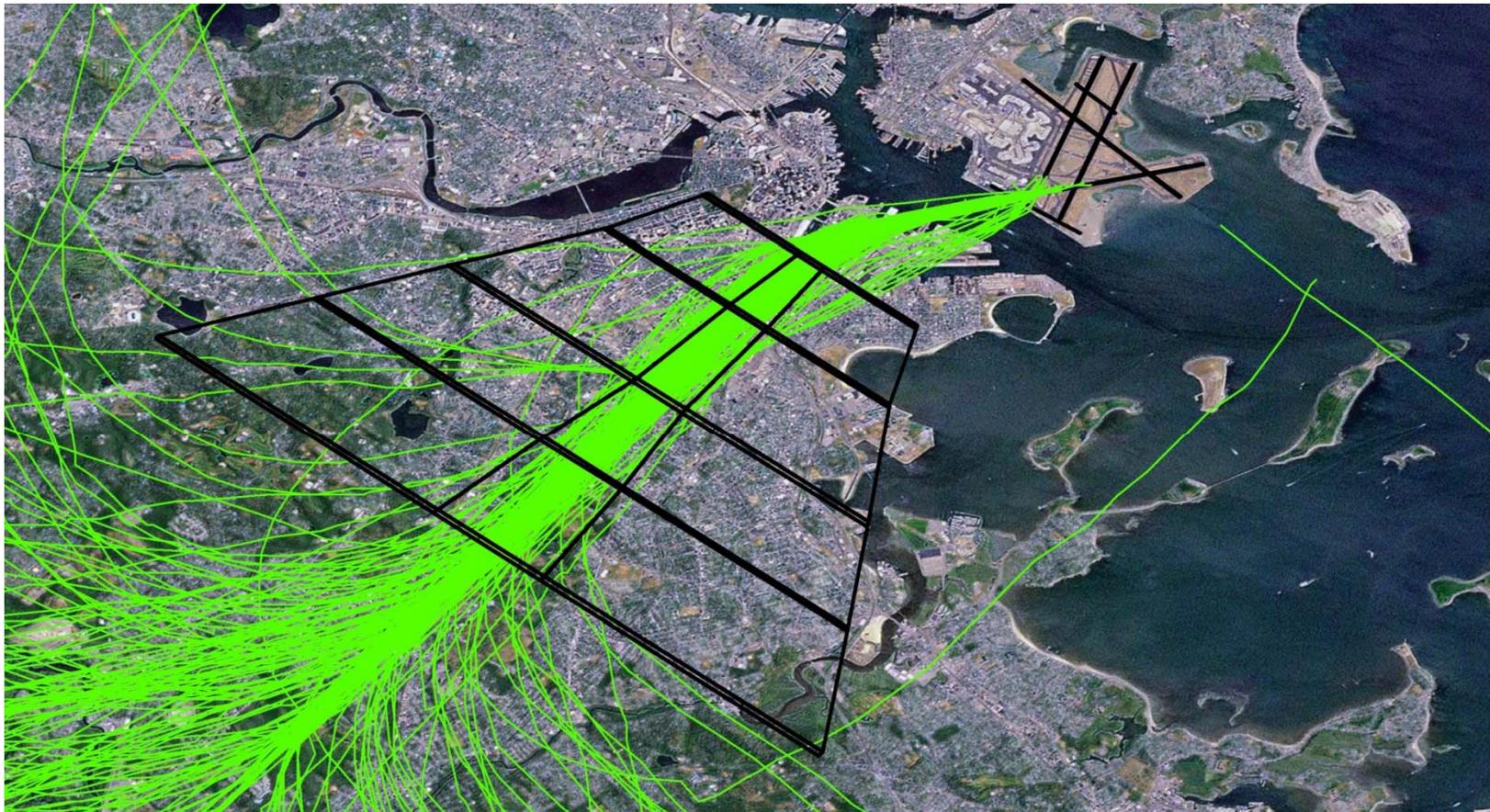


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2008	June	351	201	57.3	232	262	300	318	311	66.1	74.6	85.5	90.6	88.6	81.1



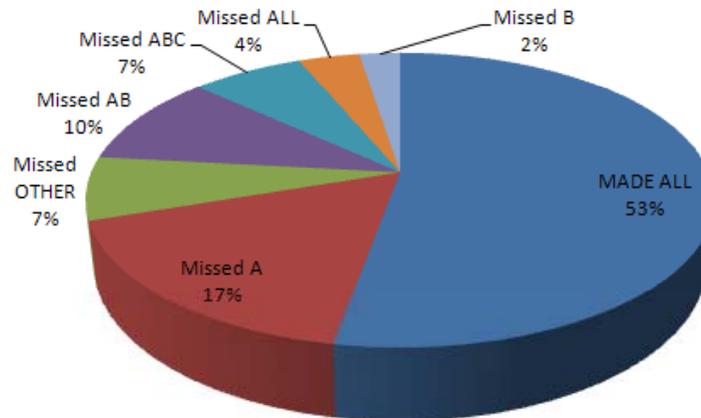
July 2008



- 161 Total Tracks
- 52.2% Compliant

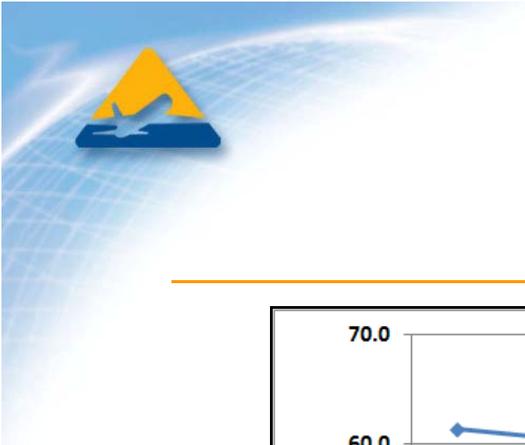
July 2008 (concluded)

TOP 7 Compliance Categories

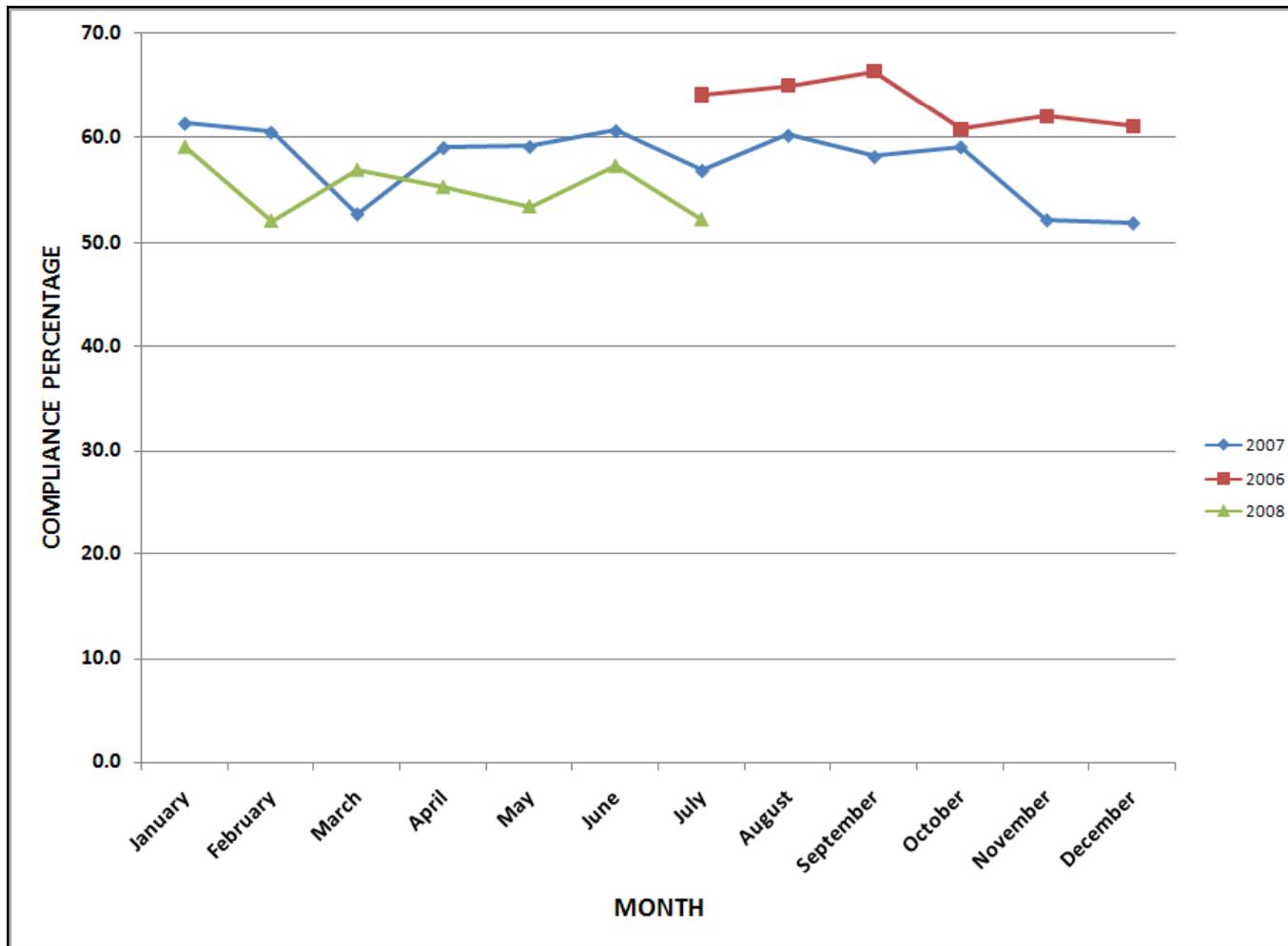


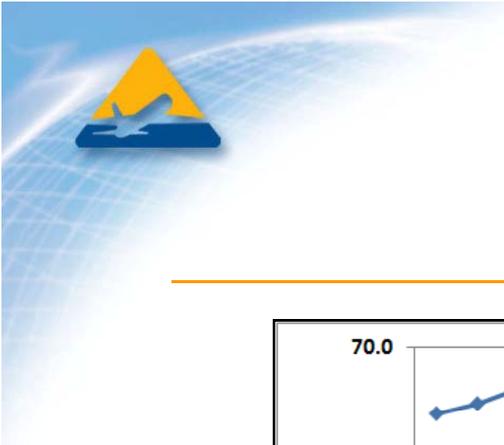
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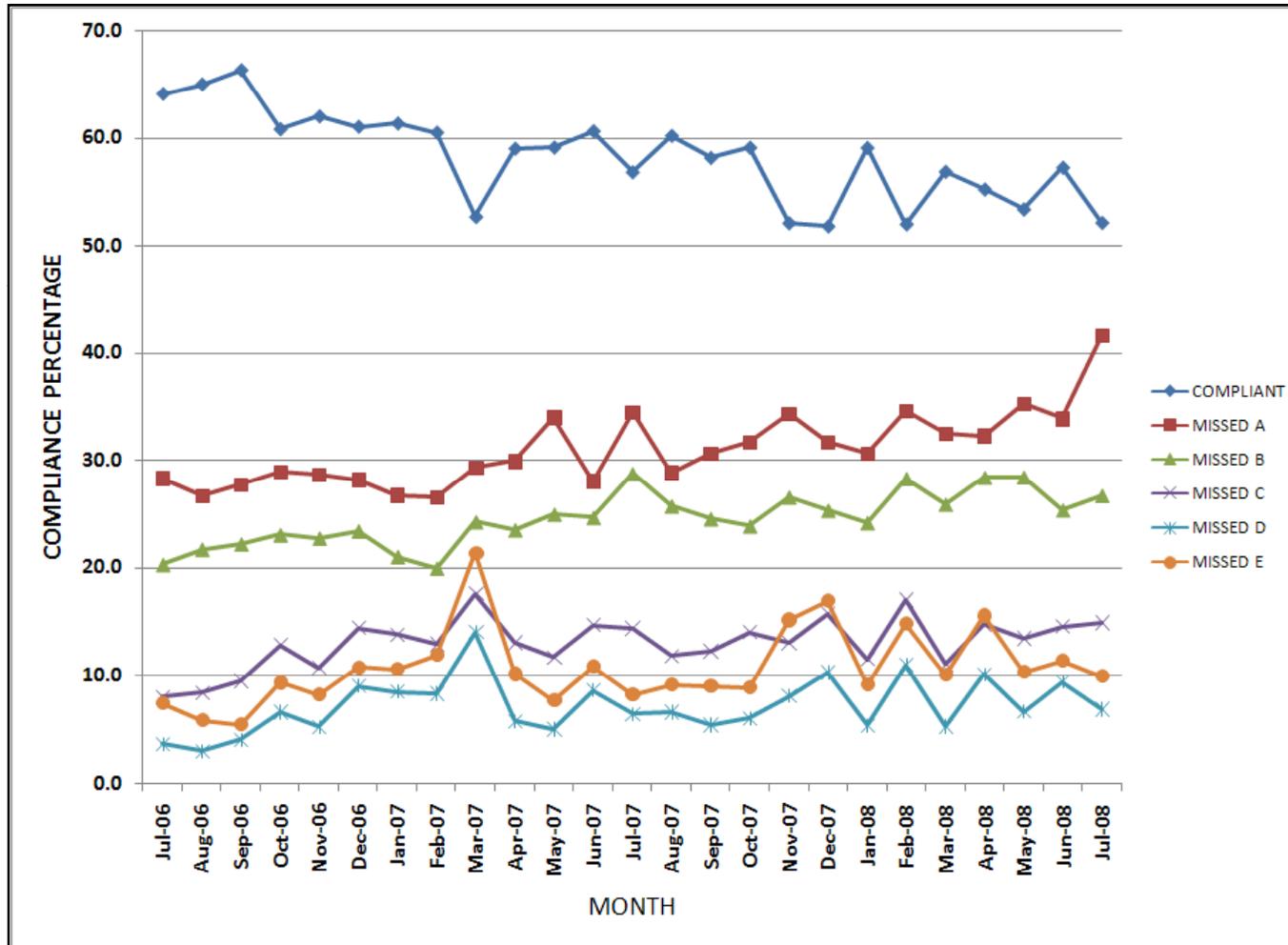


Overall Compliance



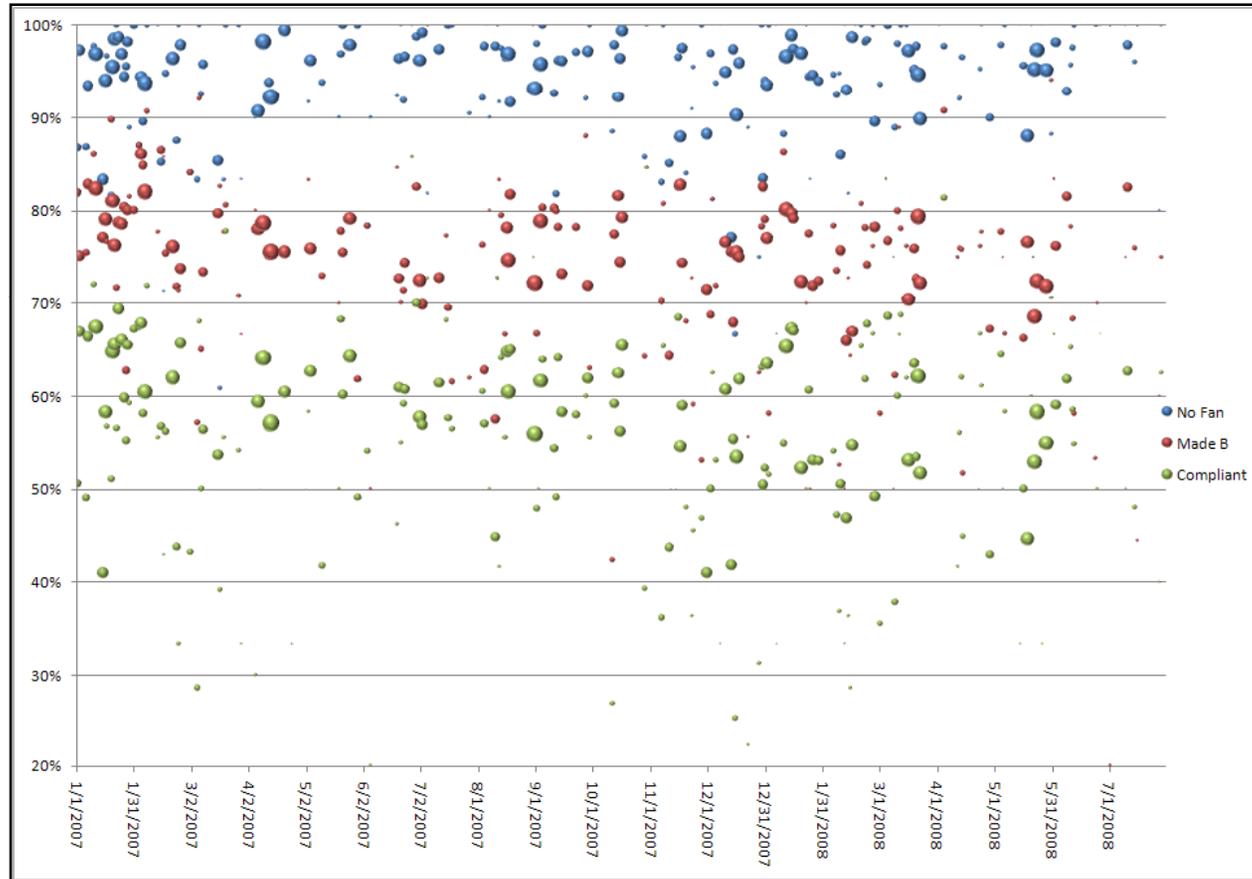


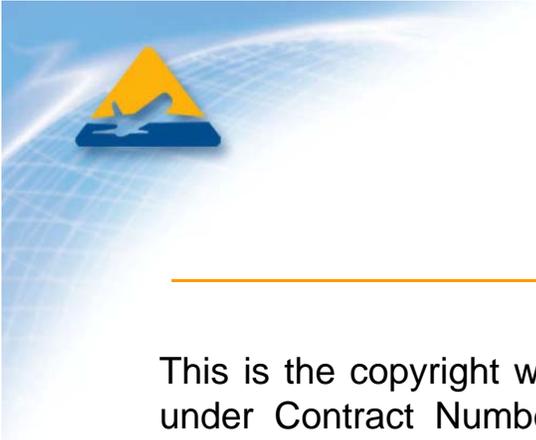
Compliance Observations





Compliance Observations (concluded)





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