



International Civil Aviation Organization

**Tenth Meeting of the FANS Interoperability Team – Asia  
(FIT-Asia/10)**

Video Teleconference, 03 – 06 August 2020

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**Agenda Item 4: Review of ADS-C/CPDLC Operations and Performance**

**ASIA/PACIFIC REGION COMBINED PBCS MONITORING REPORT**

(Presented by USA)

**SUMMARY**

This paper presents the aggregated monitoring report for the Asia/Pacific Region.

**1. INTRODUCTION**

1.1 This paper provides a summary of data link performance observe in the Asia/Pacific Region during 2019.

**2. DISCUSSION**

2.1 Data Link performance reports for 2019 were provided for the Flight Information Regions (FIR)s listed in **Table 1**.

Reporting FIRs		
State	FIR	Location Indicator
Australia	Brisbane	YBBB
	Melbourne	YMMM
China	Lanzhou	ZLLL
	Urumqi	ZWWW
France (French Polynesia)	Tahiti	NTTT
Fiji	Nadi	NFFF
India	Chennai	VOMM
Indonesia	Ujung Pandang	WAAF
Japan	Fukuoka	RJJJ
Malaysia	Kuala Lumpur	WMFC
Myanmar	Yangon	VYYF
New Zealand	Auckland Oceanic	NZZO
Philippines	Manila	RPHI
Singapore	Singapore	WSJC
Sri Lanka	Colombo	VCCF
United States	Oakland Oceanic	KZAK
Viet Nam	Ho Chi Minh	VVHM
United States	Anchorage Oceanic	PAZA
	Oakland Oceanic	KZAK

**Table 1:** 2019 Data Performance – Reporting FIRs.

2.2 The aggregated data is provided in the following attachments:

**Attachment A** – Reporting FIRs, performance criteria and table colour-coding.

**Attachment B** – Required Surveillance Performance (RSP) aggregated data.

**Attachment C** – Required Communications Performance (RCP) aggregated data.

**Attachment D** – RSP issues.

**Attachment E** – RCP issues.

2.3 The following attachments provide information/templates for non-compliance reporting in the North Atlantic (NAT) Region, for consideration by the meeting.

**Attachment F** – non-compliance reporting – legend, issue codes and recommendations.

**Attachment G** – non-compliance report template.

**Attachments H and I** – example non-compliance report.

2.4 The results of the analysis of the performance data, and discussion of non-compliance reporting, are also provided in separate presentations associated with this paper.

### **3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) discuss any relevant matters as appropriate.

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2019 FIT-ASIA DATA LINK PERFORMANCE REPORT: APAC REGION




Reporting FIRS		
Code	FIR	State
KZAK	Oakland Oceanic	United States
NFFF	Nadi	Fiji
NTTT	Tahiti	French Polynesia
NZZO	Auckland Oceanic	New Zealand
PAZA	Anchorage Oceanic	United States
RJJJ	Fukuoka	Japan
RPHI	Manila	Philippines
VCCF*	Colombo	Sri Lanka
VOMM	Chennai	India
VVTS	Ho-Chi-Minh	Viet Nam
VYYF	Yangon	Myanmar
WAAF	Ujung Pandang	Indonesia
WMFC	Kuala Lumpur	Malaysia
WSJC	Singapore	Singapore
YBBB	Brisbane	Australia
YMMM	Melbourne	Australia
ZLLL	Lanzhou	China
ZWWW	Urumqi	China

\* Some data missing for media type

CRITERIA		
	95%	99.90%
ASP	% <= 90sec	% <= 180sec
ACP	% <= 180sec	% <= 210sec
ACTP	% <= 120sec	% <= 150sec
PORT	% <60secs	

COLOUR KEY
Meets Criteria
99.0%-99.90%
Under Criteria
No Data

REQUIRED SURVEILLANCE PERFORMANCE						
Region	Asia-Pacific Region					
Performance Criteria	RSP180					
Time Period	2019 January-June			2019 July-December		
Colour key Meets criteria 99.0%-99.9% Under criteria	No. Messages	Criteria		No. Messages	Criteria	
		95% % <= 90sec	99.90% % <= 180sec		95% % <= 90sec	99.90% % <= 180sec
<b>Aggregate All RGS</b>						
KZAK	4,880,557	98.40%	99.40%	4,994,635	98.50%	99.50%
NFFF	285,717	98.40%	99.15%	265,859	98.65%	99.31%
NTTT	74,795	99.52%	99.78%	64,708	99.51%	99.73%
NZZO	428,959	98.76%	99.49%	447,371	99.04%	99.60%
PAZA	1,315,506	98.38%	99.42%	1,233,417	98.47%	99.46%
RJJJ	2,454,906	98.39%	99.48%	2,668,737	98.44%	99.52%
RPHI	232,422	98.34%	99.51%	527,755	98.74%	99.65%
VCCF	598,937	98.45%	99.46%	563,057	98.53%	99.49%
VOMM	501,815	96.75%	98.65%	491,115	97.33%	98.94%
VVTS	244,731	98.33%	99.59%	255,457	98.22%	99.61%
VYYF	312,442	98.64%	99.36%	366,077	98.92%	99.52%
WAAF	290,831	98.58%	99.39%	272,656	98.89%	99.55%
WMFC	648,166	98.28%	99.51%	429,463	97.93%	99.45%
WSJC	1,189,990	98.91%	99.74%	581,546	98.65%	99.67%
YBBB	1,325,093	99.04%	99.65%	1,329,879	99.31%	99.75%
YMMM	1,003,859	98.92%	99.55%	1,000,861	99.14%	99.65%
ZLLL	344,490	97.92%	99.55%	301,206	97.83%	99.47%
ZWWW	190,925	98.08%	99.57%	176,263	98.08%	99.55%

REQUIRED COMMUNICATION PERFORMANCE										
Region	Asia-Pacific Region									
Performance Criteria	RCP240									
Time Period	2019 January-June					2019 July - December				
Colour key  Meets criteria  99.0%-99.9%  Under criteria	No. Messages	ACP Criteria		ACTP Criteria		No. Messages	ACP Criteria		ACTP Criteria	
		95%	99.90%	95%	99.90%		95%	99.90%	95%	99.90%
		% <= 180sec	% <= 210sec	% <= 120sec	% <= 150sec		% <= 180sec	% <= 210sec	% <= 120sec	% <=150sec
<b>Aggregate All RGS</b>										
KZAK	295,992	99.10%	99.40%	99.50%	99.60%	306,146	99.20%	99.50%	99.30%	99.60%
NFFF	9,533	99.55%	99.74%	99.65%	99.73%	9,731	99.44%	99.65%	99.60%	99.69%
NTTT	2,195	99.68%	99.72%	99.86%	99.86%	2,183	99.72%	99.90%	99.86%	99.86%
NZZO	12,133	99.42%	99.59%	99.60%	99.71%	11,741	99.60%	99.59%	99.77%	99.72%
PAZA	84,241	99.05%	99.23%	99.33%	99.44%	85,796	98.35%	98.16%	98.76%	98.68%
RJJJ	51,506	99.46%	99.62%	99.38%	99.62%	54,855	99.50%	99.64%	99.47%	99.70%
RPHI	9,311	97.24%	98.71%	97.47%	98.81%	17,727	97.39%	98.62%	97.58%	98.88%
VCCF	29,676	98.31%	99.27%	99.24%	99.69%	32,594	98.12%	99.21%	99.39%	99.68%
VOMM	133,127	99.29%	99.50%	99.55%	99.71%	133,189	99.29%	99.51%	99.55%	99.71%
VVTS	27,923	94.67%	99.13%	95.37%	99.48%	30,462	94.58%	99.15%	95.29%	99.48%
VYYF	59,919	98.52%	98.90%	98.85%	99.18%	67,469	98.31%	98.69%	98.66%	99.04%
WAAF	41,583	98.61%	99.21%	98.88%	99.44%	38,744	96.46%	99.63%	97.31%	99.68%
WMFC	20,441	97.97%	98.73%			30,246	97.67%	98.45%		
WSJC	31,694	98.47%	98.27%	98.93%	98.88%	47,765	98.74%	98.62%	99.16%	99.09%
YBBB	36,891	98.99%	99.26%	99.82%	99.13%	40,094	99.30%	99.52%	99.16%	99.42%
YMMM	38,326	99.43%	99.58%	99.39%	99.57%	42,827	99.48%	99.64%	99.54%	99.69%
ZLLL	2,805	99.14%	99.35%	98.36%	98.89%	3,080	99.22%	99.41%	98.40%	99.18%
ZWWW	787	97.83%	98.22%	96.56%	97.20%	558	98.74%	99.28%	97.13%	97.84%

Criteria			RSP180					
Period			Jan-June 2019			July-December 2019		
Colour key <span style="color: green;">■</span> Meets criteria <span style="color: yellow;">■</span> 99.0%-99.9% <span style="color: orange;">■</span> Under criteria			Message Counts	95%	99.90%	Message Counts	95%	99.90%
				% <= 90sec	% <= 180sec		% <= 90sec	% <= 180sec
FIR	By Media Type							
KZAK	HF		29422	70.00%	83.90%	22920	67.20%	81.90%
NFFF	HF		2768	68.09%	82.47%	789	70.59%	85.67%
NZZO	HF		1536	76.56%	89.64%	775	81.03%	90.58%
PAZA	HF		4591	56.9%	72.3%	4848	61.2%	74.6%
RPHI	HF		1668	64.15%	84.47%	1117	74.31%	89.88%
VOMM	HF		236	34.83%	52.75%	285	45.38%	60.58%
VYYF	HF		350	66.57%	81.81%	396	69.19%	80.56%
WAAF	HF		740	64.32%	82.12%	725	64.83%	82.07%
WMFC	HF		67	94.21%	97.91%	47	76.10%	94.65%
WSJC	HF		119	70.59%	83.24%	123	68.70%	85.91%
YBBB	HF		3788	73.09%	86.83%	2549	77.68%	91.25%
YMMM	HF		1084	58.67%	75.73%	1132	62.28%	77.20%
ZLLL	HF		32	40.62%	65.62%	47	31.91%	48.93%
ZWWW	HF		34	41.17%	67.64%	28	25.00%	35.71%
VOMM	SATCOM		248899	96.66%	98.67%	221117	96.99%	98.82%
VOMM	VHF		252680	96.89%	98.68%	269715	97.66%	99.07%
By Remote Ground Station (RGS) Ground Earth Station (GES)								
FIR	Designator	Type	(only RGS/GES with message counts >100 recorded)					
KZAK	AKN	VHF	3365	98.16%	98.81%	2965	98.79%	99.29%
NFFF	AME1	SAT	156	93.58%	97.43%	287	86.41%	97.90%
NFFF	AME2	SAT	1235	97.00%	98.62%	782	95.26%	98.97%
KZAK	AOE6	SAT	644	91.15%	94.72%	701	93.87%	96.43%
VYYF	AOR1	SAT	218	98.64%	98.67%	555	97.71%	98.30%
NFFF	APK1	SAT	55317	97.97%	98.83%	66040	98.25%	99.00%
NZZO	APK1	SAT	76457	97.92%	98.97%	84026	98.52%	99.25%
VOMM	APK1	SAT	224357	96.96%	98.75%	200940	97.44%	98.93%

VOMM	APK2	VHF	50817	94.73%	97.31%	30263	95.60%	97.86%
VYYF	APK2	SAT	25464	97.61%	98.83%	20990	97.84%	99.03%
WMFC	APK2	SAT	33891	95.22%	98.25%	16985	95.23%	97.99%
NFFF	APW1	VHF	1815	98.56%	98.67%	1660	99.33%	99.45%
WAAF	AYQ1	VHF				243	98.06%	98.21%
KZAK	BLI	VHF	420	96.90%	98.33%	412	99.03%	100.00%
WAAF	BME1	VHF	147	98.68%	98.76%	1372	99.34%	99.41%
RPHI	BMV1	VHF				139	97.03%	97.89%
VYYF	BOM	VHF	133	94.87%	96.25%	129	100.00%	100.00%
WAAF	BPN1	VHF	1008	98.28%	99.43%	1601	72.20%	88.44%
VOMM	BTJ	VHF	1530	98.89%	99.66%	16610	94.89%	97.77%
VOMM	BTJ1	VHF	6437	91.10%	94.97%	729	99.37%	99.86%
WMFC	BTJ1	VHF	33281	96.32%	98.49%	33488	96.33%	98.72%
YMMM	CFSA	VHF	85	98.82%	98.82%	425	100.00%	100.00%
YMMM	CGK2	VHF	180	96.67%	97.22%	167	100.00%	100.00%
PAZA	CJU1	VHF	114	92.11%	93.86%	132	97.73%	97.73%
VOMM	COK1	VHF	2012	99.76%	99.85%	1634	93.51%	98.04%
WAAF	CRK	VHF	260	98.47%	98.49%	117	100.00%	100.00%
KZAK	CRQ	VHF	638	92.16%	95.30%	1199	93.33%	97.50%
RPHI	CXR1	VHF				115	94.88%	95.06%
VYYF	DEL	VHF				126	97.44%	98.05%
WAAF	DRB1	VHF	530	97.33%	97.40%	1650	99.21%	99.46%
NZZO	DUD1	VHF				163	98.60%	100.00%
WAAF	DVO	VHF	1537	98.67%	98.88%	1341	99.23%	99.42%
VOMM	EUA1	SAT	1409	93.97%	98.62%	1791	95.64%	98.78%
VYYF	EUA1	SAT	1159	96.83%	98.28%	1426	96.39%	99.38%
VOMM	EUA2	VHF	1045	91.87%	96.89%	11540	98.60%	99.30%
VYYF	EUA2	SAT	620	95.65%	97.48%	1473	94.03%	97.19%
KZAK	H01	HF	8998	71.70%	85.67%	6831	100.00%	100.00%
NZZO	H01	HF	122	68.85%	88.52%	225	97.77%	99.33%
PAZA	H01	HF	697	57.82%	69.30%	674	62.76%	76.85%
KZAK	H02	HF	14661	71.41%	84.68%	12035	69.00%	82.64%
NFFF	H02	HF	409	66.01%	78.72%	202	95.52%	99.72%
NZZO	H02	HF	313	73.48%	87.53%	505	85.94%	93.46%

PAZA	H02	HF	2844	56.40%	72.43%	3087	63.69%	76.48%
RPHI	H02	HF	137	67.45%	84.67%			
KZAK	H04	HF	501	51.70%	72.85%	389	49.61%	72.75%
KZAK	H05	HF	1162	50.77%	69.88%	532	58.27%	79.70%
NFFF	H05	HF	2221	69.38%	83.97%	541	73.75%	87.24%
NZZO	H05	HF	1048	79.19%	90.74%			
RPHI	H06	HF	193	51.30%	79.15%			
VOMM	H06	HF	169	31.56%	46.30%	225	44.59%	60.67%
VYYF	H06	HF	329	66.57%	82.78%	372	69.89%	80.91%
KZAK	H09	HF	660	70.15%	83.79%	611	61.87%	78.89%
PAZA	H09	HF	817	62.79%	78.70%	797	57.72%	71.39%
KZAK	H10	HF	91	63.74%	82.42%	109	70.64%	85.32%
KZAK	H13	HF	511	62.62%	78.47%	242	50.00%	71.49%
KZAK	H16	HF	2702	70.73%	82.79%	2119	70.84%	84.14%
PAZA	H16	HF	58	37.93%	56.90%	156	44.87%	58.97%
RPHI	H16	HF	1091	65.54%	85.08%	810	75.97%	91.11%
VYYF	HJR1	VHF	132	98.53%	98.59%		0.00%	0.00%
RPHI	HKG2	VHF	334	97.79%	97.93%	717	98.89%	99.06%
WAAF	HKG2	VHF	194	97.95%	98.00%			
PAZA	HND1	VHF	109	96.33%	96.33%	129	100.00%	100.00%
VYYF	HYD	VHF				124	94.24%	94.56%
VOMM	HYD1	VHF	1162	99.29%	99.76%	15763	97.32%	98.48%
KZAK	IG1	SAT	612073	96.54%	98.88%	631682	96.95%	99.12%
NFFF	IG1	SAT	3027	98.28%	99.40%	1869	96.46%	98.23%
NZZO	IG1	SAT	1193	96.98%	98.74%	700	98.57%	99.42%
PAZA	IG1	SAT	54025	94.63%	98.51%	57117	94.22%	98.30%
RJJJ	IG1	GES	119734	97.08%	99.14%	136488	96.60%	98.94%
RPHI	IG1	VHF	375	87.47%	97.49%	1041	84.82%	96.35%
VOMM	IG1	SAT	1092	83.88%	94.60%	1192	79.87%	94.13%
VVTS	IG1	SAT	434	96.31%	99.59%	581	90.53%	98.87%
VYYF	IG1	SAT	1072	94.78%	98.64%	1371	96.16%	98.40%
WAAF	IG1	VHF	281	86.48%	93.44%	566	87.46%	95.11%
WSJC	IG1	SAT	831	88.45%	98.56%	555	83.42%	97.19%
YBBB	IG1	SAT	2,361	95.21%	98.39%	2,253	93.92%	97.83%

YMMM	IG1	SAT	974	91.68%	96.30%	1402	90.16%	95.86%
NFFF	IGW1	SAT	5869	98.07%	99.55%	8365	95.46%	98.01%
RPHI	IGW1	VHF	15277	95.26%	99.13%	13644	95.71%	98.52%
VOMM	IGW1	SAT	20739	95.44%	98.44%	16291	93.43%	98.13%
VVTS	IGW1	SAT	5584	95.97%	98.97%	5094	96.05%	98.86%
VYYF	IGW1	SAT	4417	96.42%	98.51%	2962	98.21%	99.36%
WMFC	IGW1	SAT	11715	92.05%	98.10%	6416	87.78%	97.09%
VOMM	IOR6	VHF	918	94.58%	97.25%			
VYYF	IOR6	SAT	1134	94.97%	97.05%			
VOMM	IXZ1	VHF	4852	98.26%	98.77%	786	99.11%	99.76%
KZAK	KTN	VHF	3506	97.40%	99.23%	3323	97.41%	98.98%
WMFC	KUA	VHF	91	97.52%	98.98%	455	97.23%	98.36%
PAZA	KUH1	VHF	150	78.00%	80.00%	240	87.50%	87.92%
PAZA	KUHV	VHF	135	97.04%	97.78%	140	100.00%	100.00%
WAAF	LAO	VHF	455	97.65%	97.83%	284	99.36%	99.53%
VYYF	LKO1	VHF	255	98.83%	98.89%	420	96.98%	97.42%
WAAF	MDC1	VHF	2488	96.42%	98.39%	1873	95.37%	93.91%
PAZA	MJZ	VHF	550	96.36%	96.73%	326	93.87%	94.48%
RPHI	MMY1	VHF	798	96.64%	99.01%	954	96.94%	98.50%
WAAF	MTS1	VHF	2412	97.68%	98.86%	2623	98.82%	99.76%
VOMM	NAG1	VHF	709	99.42%	99.86%	1139	97.43%	98.03%
VYYF	NAG1	VHF	305	97.75%	97.92%	519	98.31%	99.32%
VYYF	NNG	VHF				117	97.73%	98.28%
PAZA	NRT1	VHF	126	96.03%	96.83%	147	99.32%	99.32%
KZAK	OAK	VHF	12786	96.82%	98.79%	12806	96.61%	98.24%
KZAK	OGG	VHF	17118	95.90%	98.96%	13406	96.11%	98.86%
KZAK	OGG1	VHF	9634	96.68%	98.63%	12011	97.26%	98.85%
KZAK	OTH	VHF	24949	97.31%	99.13%	19288	95.95%	98.25%
KZAK	OTHV	VHF	16590	96.59%	99.42%	9754	92.70%	98.19%
KZAK	PAEV	VHF	230	100.00%	100.00%	289	97.92%	98.27%
KZAK	PDX2	VHF	109	97.25%	98.17%	246	100.00%	100.00%
WMFC	PEN	VHF	180	99.89%	100.00%	415	97.34%	98.42%
WAAF	PLM	VHF	586	98.41%	98.77%			
WAAF	PLM1	VHF				3076	97.34%	98.72%

VOMM	PNQ1	VHF	1118	98.68%	99.14%	160	96.20%	97.58%
WAAF	PPS	VHF	131	96.24%	96.36%	109	98.62%	99.37%
KZAK	SAN1	VHF	1275	94.04%	98.04%	2971	97.61%	98.79%
KZAK	SAN9	VHF	0			437	93.36%	97.03%
KZAK	SBA	VHF	1584	97.22%	98.80%	1453	96.70%	98.90%
KZAK	SBA2	VHF	0			804	97.14%	98.88%
KZAK	SBA8	VHF	0			2828	97.98%	98.83%
KZAK	SBP	VHF	2773	94.16%	98.05%	2480	95.81%	98.79%
PAZA	SDJV	VHF	162	100.00%	100.00%	150	98.67%	98.67%
KZAK	SFOA	VHF	329	97.87%	98.18%	615	96.42%	97.24%
WAAF	SIN	VHF	717	96.56%	97.77%	808	97.09%	99.16%
WAAF	SIN1	VHF	102	98.44%	99.19%	174	97.90%	98.38%
WAAF	SIN2	VHF	253	93.27%	94.23%	285	95.67%	98.06%
WAAF	SIN8	VHF	486	98.14%	98.37%	498	99.62%	99.67%
KZAK	SIT	VHF	580	97.76%	98.79%	659	97.27%	99.09%
KZAK	SJD1	VHF	79	98.73%	98.73%	137	100.00%	100.00%
KZAK	SMX1	VHF	0			676	98.08%	98.82%
KZAK	SMX7	VHF	0			775	98.06%	98.84%
WAAF	SOQ1	VHF	1986	97.18%	98.68%	2120	78.68%	91.08%
RPHI	SYX	VHF	5025	97.67%	98.70%	6706	98.09%	99.21%
WMFC	SZB	VHF	642	99.36%	99.67%	2519	97.92%	98.79%
RPHI	SZX	VHF	251	96.57%	98.02%	411	99.60%	99.93%
RPHI	TTE1	VHF	480	95.94%	96.72%	1511	97.63%	99.11%
WAAF	TTE1	VHF	2800	96.29%	98.21%	7040	97.97%	99.25%
VYYF	VTZ1	VHF	265	98.57%	98.73%	227	93.27%	93.75%
VOMM	XXF	SAT	1435	79.86%	93.80%	886	85.21%	94.58%
VYYF	XXF	SAT	1048	93.42%	96.76%	1047	93.31%	96.04%
YMMM	XXF	SAT	2873	94.05%	96.87%	2418	94.33%	98.01%
NFFF	XXH	SAT	2726	94.75%	96.99%	2681	95.33%	97.09%
VOMM	XXI	VHF	575	93.33%	96.70%	1067	94.49%	96.62%
VYYF	XXI	SAT	115	96.13%	98.24%	185	97.23%	99.82%
YMMM	XXI	SAT	5968	98.98%	99.35%	5524	98.21%	98.79%
KZAK	XXN	SAT	1226	86.46%	92.58%	857	86.35%	93.00%
VOMM	XXP	VHF	16902	92.35%	95.78%	20399	95.40%	97.74%

VVTS	XXP	SAT	8774	94.36%	98.99%	7702	92.73%	98.95%
WSJC	XXP	SAT	21508	95.56%	99.07%	11283	94.99%	98.97%
YMMM	XXP	SAT	30562	97.83%	98.96%	28420	98.22%	99.11%
PAZA	YKS1	VHF	307	93.49%	93.81%	357	97.20%	97.20%
KZAK	YVR	VHF	902	97.89%	98.45%	498	98.59%	99.40%
KZAK	YVR1	VHF	132	98.48%	98.48%	154	96.75%	99.35%
KZAK	YYJ	VHF	438	99.32%	99.54%	266	98.87%	98.87%
KZAK	YZP1	VHF	144	97.22%	97.92%	252	97.22%	100.00%
KZAK	YZT	VHF	266	96.62%	97.37%	301	94.68%	94.68%
ZLLL	GES5	VHF	119	99.15%	100.00%	140	97.85%	97.85%
ZLLL	GES15	VHF	1840	99.29%	99.67%	1335	98.12%	98.87%
ZLLL	GES16	VHF	526	98.85%	99.42%	624	98.39%	98.87%
ZLLL	GES20	VHF	167	98.20%	98.80%			
ZLLL	GES36	VHF	125	96.00%	98.40%			
ZLLL	GES38	VHF				148	97.85%	97.85%
ZLLL	GES39	VHF	109	93.57%	96.33%	103	98.12%	98.87%
ZLLL	GES48	VHF	249	97.99%	100.00%	143	98.39%	98.87%
ZLLL	GES62	SAT	16083	93.28%	98.75%	14060	0.00%	0.00%
ZLLL	GES74	VHF	1757	97.83%	98.63%	1331	0.00%	0.00%
ZLLL	GES80	VHF	2417	97.47%	98.71%	1320	96.62%	98.64%
ZLLL	GES81	VHF	156	79.48%	80.76%	155	98.05%	98.05%
ZLLL	GES82	VHF	518	96.52%	98.45%	412	97.90%	97.90%
ZLLL	GES92	VHF				108	92.91%	98.60%
ZLLL	GES94	VHF	473	97.46%	97.88%	424	98.94%	99.47%
ZLLL	GES95	SAT	9968	92.16%	98.68%	7590	97.80%	98.63%
ZLLL	GES113	VHF	204	93.13%	99.50%	219	90.32%	90.96%
ZLLL	GES124	VHF	551	97.45%	97.82%	388	96.84%	99.27%
ZLLL	GES129	VHF	181	95.58%	96.68%		98.14%	98.14%
ZLLL	GES150	VHF	160	88.75%	94.37%		99.76%	99.76%
ZLLL	GES162	VHF	234	99.14%	100.00%	308	89.23%	96.96%
ZLLL	GES173	VHF	141	93.61%	95.03%		95.43%	100.00%
ZLLL	GES174	VHF	208	95.19%	95.67%	242	97.93%	98.96%
ZLLL	GES222	SAT	17301	94.50%	99.70%	17319	0.00%	0.00%
ZWWW	GES2	VHF	131	99.23%	100.00%	131	0.00%	0.00%

ZWWW	GES25	VHF	135	99.25%	99.25%	174	97.40%	98.37%
ZWWW	GES45	SAT	11193	94.54%	98.99%	10276	0.00%	0.00%
ZWWW	GES55	VHF	868	97.11%	98.04%	623	95.45%	97.93%
ZWWW	GES59	VHF	1062	97.26%	98.68%	668	95.62%	99.81%
ZWWW	GES60	VHF	229	94.32%	95.63%	171	97.70%	98.47%
ZWWW	GES70	SAT	4412	92.56%	98.54%	3242	98.85%	98.85%
ZWWW	GES84	VHF	169	98.22%	98.81%		94.56%	98.99%
ZWWW	GES89	VHF	168	98.21%	98.80%	550	99.03%	99.35%
ZWWW	GES98	VHF	116	94.82%	94.82%		96.85%	98.50%
ZWWW	GES102	VHF	534	96.44%	98.87%	430	96.49%	98.83%
ZWWW	GES123	VHF	1101	97.36%	98.81%	899	88.61%	97.59%
ZWWW	GES130	VHF	245	97.14%	98.77%	131	0.00%	0.00%
ZWWW	GES151	SAT	9214	94.01%	99.75%	10177	99.81%	99.81%

Criteria		RSP180					
Period		Jan-June 2019			July-December 2019		
Colour key <span style="color: green;">■</span> Meets criteria <span style="color: yellow;">■</span> 99.0%-99.9% <span style="color: orange;">■</span> Under criteria		Message Counts	95% % <= 90sec	99.90% % <= 180sec	Message Counts	95% % <= 90sec	99.90% % <= 180sec
FIR	<b>By Aircraft Operator / Type (only message counts &gt;100 recorded)</b>						
KZAK	AAL/B772	63119	97.22%	98.91%	61985	97.08%	98.81%
PAZA	AAL/B772	9088	95.76%	98.59%	11417	96.96%	98.97%
RJJJ	AAL/B772	12425	97.20%	98.77%	16743	97.41%	98.98%
WSJC	AAR/B772	292	97.88%	99.68%	126	95.01%	98.64%
RJJJ	ABW/B744	139	97.84%	98.56%	102	100.00%	100.00%
KZAK	ABW/B748	1375	97.45%	98.33%	1424	97.96%	98.74%
VYYF	ABW/B748	266	98.13%	98.40%	461	98.45%	99.17%
WSJC	ACA/A333	244	98.91%	100.00%	106	94.37%	100.00%
KZAK	ACA/B762	2149	97.58%	99.21%	14562	97.01%	98.83%
KZAK	ACA/B763	4760	96.97%	99.10%	3459	96.70%	98.64%
PAZA	ACA/B763	4364	95.81%	98.51%	5141	95.76%	98.27%
NFFF	ACA/B77W	293	96.93%	97.27%	258	98.84%	98.84%
KZAK	ACA/B788	28942	97.91%	99.00%	30142	97.87%	98.92%

NFFF	ACA/B788	8309	96.12%	97.46%	9034	96.36%	97.49%
NZZO	ACA/B788				581	97.76%	98.45%
RJJJ	ACA/B788	6916	99.05%	99.44%	4248	98.02%	98.73%
NFFF	ACA/B789	5641	96.68%	97.78%	5922	97.25%	98.31%
RJJJ	ADOBE/K35R	143	99.30%	100.00%	227	97.80%	98.68%
VOMM	AFL/A333	1622	97.30%	98.79%	498	96.01%	97.65%
VOMM	AFL/B77W	681	95.48%	98.77%			
VOMM	AIC/A20N				717	76.15%	85.50%
VYYF	AIC/A20N				167	95.54%	95.99%
WMFC	AIC/A20N				970	93.09%	96.93%
VOMM	AIC/A320	551	84.45%	89.02%	429	69.15%	79.02%
VYYF	AIC/A320				200	91.56%	92.24%
WMFC	AIC/A320	1729	93.62%	96.51%	784	90.02%	94.43%
VOMM	AIC/B744	175	94.86%	100.00%	148	100.00%	100.00%
VYYF	AIC/B77L	308	96.68%	98.84%	139	99.84%	100.00%
VOMM	AIZ/B763	501	99.64%	100.00%	218	94.54%	96.76%
VYYF	AJX/B789	274	99.34%	99.57%	227	98.30%	98.64%
VOMM	ALK/A20N	1872	96.23%	97.66%	2588	95.05%	97.41%
VOMM	ALK/A21N	3215	97.36%	98.72%	4806	98.24%	99.00%
VYYF	ALK/A320	674	98.48%	99.14%	992	96.88%	97.60%
VOMM	ALK/A332	2612	99.14%	99.41%	2199	98.28%	98.46%
VOMM	ALK/A333	3110	98.26%	98.77%	3076	98.60%	98.88%
VYYF	ALK/A333	353	97.42%	97.84%	549	99.41%	99.47%
RJJJ	ANA/B763	2319	94.35%	99.05%	1245	94.62%	99.28%
WSJC	ANA/B788	5553	99.23%	99.60%	171	93.86%	96.75%
NFFF	ANZ/A20N	281	96.80%	98.58%	1496	90.71%	95.72%
NFFF	ANZ/A21N	1682	98.39%	99.64%	3120	96.41%	98.27%
VOMM	AOJ/GLF5	133	92.11%	98.96%	165	90.05%	96.52%
RJJJ	ARTIC/K35R	218	99.54%	99.54%	159	98.74%	98.74%
KZAK	ASA/B738	330341	95.64%	98.53%	288655	96.08%	98.80%
PAZA	ASA/B738	2650	93.66%	98.53%	2501	94.20%	98.88%
KZAK	ASA/B739	79033	95.83%	98.60%	105425	95.97%	98.80%
WSJC	ASY/C17	219	96.81%	98.35%	174	100.00%	100.00%
KZAK	ASY/FA7X	95	98.95%	100.00%	127	97.64%	98.43%

NFFF	ASY/FA7X				680	95.44%	97.06%
VOMM	AZG/B744	648	87.04%	96.47%	766	86.42%	94.54%
WMFC	AZG/B744	785	89.43%	95.73%	1026	90.45%	97.44%
WSJC	AZG/B744				140	86.67%	93.14%
RJJJ	B32/GLF6	140	99.29%	100.00%	120	98.33%	98.33%
RJJJ	B82/GLF5	140	95.71%	96.43%	51	96.08%	98.04%
VYYF	BAW/B722	342	97.98%	98.63%	434	98.62%	99.76%
VYYF	BAW/B748				175	96.87%	98.22%
VOMM	BAW/B77W	3838	94.75%	97.80%	2664	96.58%	98.99%
VOMM	BAW/B788	453	98.74%	99.67%	307	95.68%	98.12%
VYYF	BAW/B789	218	94.16%	97.04%	1029	98.48%	98.99%
VYYF	BBC/B738	245	96.40%	97.89%	179	96.14%	96.46%
KZAK	BJN/B737	116	97.41%	97.41%	123	100.00%	100.00%
KZAK	BOE/C17	234	100.00%	100.00%	299	98.33%	98.66%
KZAK	BWJ/GLF4	88	98.86%	98.86%	184	92.93%	97.28%
PAZA	CAB/DC10	0			442	89.59%	95.25%
RJJJ	CABAL/DC10	134	99.25%	99.25%	434	98.16%	98.85%
RJJJ	CABAL/K35R	932	96.89%	98.28%	1008	98.91%	99.80%
VYYF	CAL/A333	447	99.02%	99.31%	534	98.55%	98.83%
PAZA	CAO/B744	354	99.72%	100.00%	296	97.30%	98.65%
RJJJ	CAO/B744	244	98.77%	99.59%	174	96.55%	97.13%
KZAK	CAO/B77L	4322	96.90%	98.15%	6947	95.62%	97.48%
VOMM	CBJ/A333	334	95.99%	98.53%	264	99.91%	100.00%
NZZO	CCA/A332	287	97.21%	97.90%	269	99.25%	99.62%
KZAK	CCA/B748	6952	98.20%	99.51%	3620	97.18%	98.48%
PAZA	CCA/B748	3286	96.56%	98.90%	903	96.68%	98.89%
RPHI	CCA/B77W	115	93.91%	98.14%	369	94.31%	98.14%
WAAF	CCA/B77W	495	96.44%	99.39%	459	94.92%	99.19%
NFFF	CCA/B789	3188	98.02%	98.81%	2873	93.87%	96.83%
NZZO	CCA/B789	3255	97.81%	98.77%	3161	95.79%	97.81%
PAZA	CCA/B789	2902	98.86%	99.24%	1684	98.34%	98.87%
VYYF	CEB/A333	832	97.30%	98.70%	933	99.79%	99.85%
NFFF	CES/A332	4187	97.01%	98.42%	2154	96.33%	98.84%
YMMM	CES/B773	1195	98.08%	99.83%	175	96.00%	98.29%

RPHI	CES/B77W	535	96.26%	98.23%	215	96.51%	98.83%
VOMM	CESA333	1735	97.12%	99.17%	1967	95.53%	98.14%
VOMM	CFG/B763	1131	97.11%	98.32%	513	97.08%	98.81%
PAZA	CHH/B788	2003	99.80%	99.85%	1130	97.26%	98.76%
RJJJ	CHH/B788	469	97.01%	99.79%	618	96.93%	98.54%
KZAK	CKS/B744	22340	97.35%	98.98%	20370	96.91%	98.73%
NFFF	CKS/B744	104	97.12%	98.08%			
RJJJ	CKS/B744	13870	96.91%	98.90%	13820	96.62%	98.52%
VOMM	CLX/B744	308	84.09%	94.09%	522	90.23%	94.52%
VYYF	CLX/B744	634	97.59%	98.97%	1178	96.90%	98.30%
WMFC	CLX/B744	517	92.84%	98.03%	870	95.17%	99.80%
VYYF	CPA/A332	437	97.90%	98.61%	743	99.28%	99.42%
VOMM	CPA/A333	5263	91.18%	94.43%	3945	92.80%	95.61%
NFFF	CPA/A359	937	97.65%	98.72%	824	98.79%	99.39%
VOMM	CPA/B744	3295	83.22%	90.44%	3397	89.81%	95.00%
KZAK	CPA/B748	3212	95.67%	97.66%	3433	94.90%	97.58%
PAZA	CPA/B748	45819	97.26%	98.20%	45618	96.95%	97.99%
VYYF	CPA/B748	882	94.60%	96.49%	1219	96.01%	96.76%
YBBB	CPA/B748	1242	98.63%	99.44%	1183	97.97%	98.73%
RPHI	CPA/B773	2349	95.40%	98.87%	5587	94.81%	99.11%
VOMM	CPA/B773	104	89.42%	95.45%			
YMMM	CPA/B773	9948	94.59%	96.87%	9839	93.27%	96.21%
VYYF	CPA/B77L	113	98.42%	99.23%	113	93.69%	95.06%
KZAK	CPA/B77W	119628	97.84%	99.09%	114121	96.52%	98.42%
NFFF	CPA/B77W	256	88.67%	96.09%			
PAZA	CPA/B77W	51018	95.82%	98.77%	44075	95.38%	98.43%
RJJJ	CPA/B77W	83752	97.31%	98.96%	87753	96.49%	98.65%
RPHI	CPA/B77W	6468	92.02%	98.42%	8795	92.43%	98.37%
VOMM	CPA/B77W	4515	89.10%	95.46%	4608	88.95%	95.25%
VYYF	CPA/B77W	7183	97.52%	98.54%	7343	98.07%	99.19%
WAAF	CPA/B77W	10047	95.23%	98.19%	7397	96.08%	98.98%
VYYF	CRK/A332	1888	96.61%	97.93%	1999	95.20%	96.27%
NZZO	CSC/A332	698	98.56%	98.99%	1015	97.83%	99.01%
RJJJ	CSC/A332	3114	98.04%	99.42%	191	97.38%	98.43%

KZAK	CSC/A333	5220	97.16%	98.64%	4962	96.86%	98.85%
RPHI	CSC/A333	1707	95.52%	98.14%	1780	97.22%	99.27%
PAZA	CSN/A333	1868	98.18%	99.57%	1847	96.37%	97.78%
RPHI	CSN/A333	20044	95.84%	98.76%	17801	97.74%	99.30%
VOMM	CSN/A333	967	90.52%	95.10%	867	94.58%	97.51%
VYYF	CSN/B77W	216	98.15%	98.45%	1321	99.38%	99.85%
PAZA	CXA/B788	3114	98.49%	99.07%	3817	98.30%	98.79%
RJJJ	CXA/B788	3613	96.90%	98.89%	3143	97.30%	99.20%
VVTS	DAL	841	97.03%	99.54%	369	96.48%	98.84%
KZAK	DAL/A332	2114	97.35%	98.44%	2234	96.11%	97.63%
PAZA	DAL/A332	5249	97.94%	99.03%	5741	96.52%	97.98%
RJJJ	DAL/A332	4682	98.53%	99.21%	5454	97.43%	98.61%
KZAK	DAL/B753	20171	95.40%	98.81%	27964	95.52%	98.51%
PAZA	DAL/B772	12543	97.38%	99.27%	11894	97.02%	98.83%
KZAK	DGX/FA8X	0			140	95.00%	97.86%
VOMM	DLH/A388	4248	96.56%	98.70%	2160	98.47%	99.51%
RJJJ	E23/K35R	289	98.27%	98.96%	321	94.08%	95.95%
RJJJ	E91/K35R	586	100.00%	100.00%	261	98.47%	98.85%
NZZO	EAU/GLEX	115	97.39%	98.26%			
YBBB	EAU/GLEX	155	99.35%	99.35%	201	98.01%	98.51%
KZAK	EDG/GLF4	104	95.19%	98.08%	148	95.95%	97.97%
KZAK	EDG/GLF5	235	97.45%	99.57%	529	96.98%	98.30%
KZAK	EJM/GLF4	398	97.24%	98.49%	120	95.00%	95.00%
KZAK	EJM/GLF5	285	94.74%	97.19%	355	95.77%	98.03%
VOMM	ELY/B744	869	95.74%	98.91%	639	91.97%	99.02%
VOMM	ETD/A332	8413	97.56%	98.77%	7094	98.94%	99.55%
WMFC	ETD/A332	9208	95.87%	98.36%	5419	98.15%	99.55%
VOMM	ETD/B77L	590	97.63%	99.26%	647	95.67%	98.24%
VOMM	ETD/B77W	5921	97.18%	98.68%	8899	97.42%	98.95%
VYYF	ETH/B733	127	99.66%	100.00%	232	94.18%	97.84%
VVTS	FDX	3345	96.14%	98.57%	3341	96.80%	98.59%
WSJC	FDX/B752	761	99.15%	99.87%	348	96.86%	97.58%
RJJJ	FDX/B763	995	95.48%	98.29%	981	95.82%	98.06%
WMFC	FDX/B763	249	95.93%	98.94%	206	93.69%	97.11%

WSJC	FDX/B763	1873	97.38%	98.94%	2434	97.45%	99.13%
KZAK	FDX/B77L	50265	97.84%	98.92%	54967	97.93%	98.99%
RJJJ	FDX/B77L	42069	97.35%	98.89%	43916	97.70%	99.15%
VOMM	FDX/B77L	635	92.76%	97.80%	740	92.36%	96.67%
WMFC	FDX/B77L	3114	95.79%	98.01%	1909	94.11%	97.82%
VOMM	FDX/MD11	184	92.81%	96.80%	202	96.86%	99.61%
WSJC	FDX/MD11	3316	98.31%	99.30%	1156	97.28%	98.68%
RPHI	FJI /A332	1921	93.60%	96.84%	1894	96.33%	98.48%
YBBB	FJI/A330	14766	95.14%	97.07%	16415	98.17%	98.86%
KZAK	FJI/A332	32184	93.61%	95.83%	31981	98.17%	98.95%
NFFF	FJI/A332	18905	93.82%	96.39%	18013	96.40%	98.16%
NZZO	FJI/A332	8545	93.66%	96.58%	8353	95.76%	97.88%
RJJJ	FJI/A332	1997	97.80%	98.40%	3026	98.91%	99.31%
KZAK	FJI/A333	8892	96.14%	98.04%	11106	98.40%	99.01%
NFFF	FJI/A333	4097	96.63%	98.54%	3861	96.27%	97.85%
NZZO	FJI/A333	2134	94.14%	97.56%	2167	96.90%	98.38%
RPHI	FJI/A333				252	94.92%	98.61%
NFFF	FJI/B38M	152	95.39%	98.03%			
VOMM	GEC/MD11	368	87.23%	98.37%	232	96.27%	100.00%
RPHI	GIA /A332	1561	98.60%	99.43%	295	98.67%	98.78%
RJJJ	GIA/A332	164	100.00%	100.00%	341	95.60%	96.77%
WAAF	GIA/A332	872	99.56%	99.77%	508	96.28%	96.44%
RJJJ	GIA/B77W	12603	96.06%	98.76%	9324	96.64%	98.68%
VOMM	GIA/B77W	4789	97.33%	99.11%	3965	97.33%	98.86%
VOMM	GTI/B744	119	85.92%	100.00%			
RJJJ	GTI/B748	1088	98.07%	99.45%	275	94.18%	97.45%
NFFF	GTI/B763				163	95.71%	98.16%
PAZA	GTI/B763	325	96.62%	97.54%	723	98.48%	99.45%
YBBB	GTI/B767	9	100.00%	100.00%	146	97.26%	98.63%
VOMM	HAD/A333	1396	93.05%	95.15%	1481	96.35%	97.94%
WAAF	HVN/A359	131	97.73%	98.01%			
VOMM	JAI/A333	299	94.37%	96.06%			
WSJC	JAL/B772	35465	98.14%	99.71%	15404	93.94%	98.33%
NZZO	JST/A332	2109	98.43%	99.33%	3195	98.27%	98.99%

VOMM	KAL/A332	457	98.03%	98.51%	583	98.90%	99.95%
RJJJ	KAL/B737	140	97.14%	98.57%	39	97.44%	100.00%
KZAK	KAL/B744	289	97.58%	98.96%	1130	98.23%	99.20%
PAZA	KAL/B748	22036	97.47%	98.75%	21042	98.32%	99.23%
KZAK	KFS/CL60	0			665	94.59%	98.20%
KZAK	KIW/B752	173	98.27%	98.84%	379	98.94%	99.21%
YBBB	KIW/C130	897	99.55%	99.78%	669	92.97%	93.57%
VOMM	KLM/B772	2126	92.94%	97.27%	666	90.93%	96.36%
WSJC	KLM/B772	645	99.43%	100.00%	322	95.50%	98.62%
VOMM	KLM/B77W	5302	94.96%	98.11%	2915	95.61%	98.52%
VOMM	KNE/B744				118	79.24%	84.76%
YBBB	LAN/B787	4071	97.89%	98.99%	3768	97.40%	98.75%
NZZO	LAN/B788	7928	98.89%	99.50%	4807	98.29%	98.87%
VOMM	LNI/A333	762	97.28%	97.57%	793	99.51%	99.88%
KZAK	LXJ/GLF6	58	96.55%	98.28%	158	100.00%	100.00%
VOMM	MAS/A332	1846	96.85%	98.04%	1710	96.01%	97.13%
WMFC	MAS/A332	1374	96.56%	97.53%	1172	99.21%	99.78%
VOMM	MAS/A333	8235	95.01%	97.15%	6022	96.58%	97.91%
VOMM	MAS/B738	26822	96.22%	98.39%	25965	95.78%	98.67%
WMFC	MAS/B738	30311	95.81%	98.95%	15159	93.63%	98.46%
YMMM	MDG/A340	973	97.12%	98.15%	609	95.73%	97.21%
YBBB	MMD/FA8X				169	98.22%	98.82%
WMFC	N11/GLF6				114	85.83%	90.47%
RJJJ	N12/GLF5	601	98.50%	99.50%	150	96.67%	98.67%
RJJJ	N18/GLF6	141	94.33%	100.00%	115	98.26%	100.00%
WSJC	N28/GL5T	106	98.44%	98.93%			
RJJJ	N50/GLF5	108	94.44%	98.15%	97	96.91%	100.00%
WSJC	N66/GLF4	146	93.41%	94.20%			
RJJJ	N70/GLF6	249	94.78%	97.59%	43	100.00%	100.00%
RJJJ	N83CW/GLF5	229	97.82%	98.69%	56	98.21%	98.21%
RJJJ	N83M/GLF5	23	95.65%	100.00%	148	97.97%	98.65%
RJJJ	N86/GLF6	260	96.54%	98.85%	138	98.55%	100.00%
RJJJ	N88/B737	135	100.00%	100.00%	231	94.81%	96.97%
RJJJ	N88/FA7X	28	100.00%	100.00%	144	97.92%	97.92%

RJJJ	N88/GLF5	246	97.56%	97.97%	208	96.15%	97.12%
RJJJ	NCR/B744	144	100.00%	100.00%	227	96.92%	98.24%
YBBB	None/F2TH				108	96.30%	98.15%
KZAK	OAE/B772	1022	95.60%	97.85%	1765	96.54%	97.85%
PAZA	OAE/B772	568	95.95%	98.94%	602	95.68%	98.67%
VOMM	OMA/A332	2939	97.19%	98.51%	3405	98.94%	99.54%
KZAK	PAC/B763	3907	97.85%	98.80%	4196	98.83%	99.05%
RJJJ	PAC/B763	2646	96.83%	98.75%	3310	96.83%	98.67%
RPHI	PAL /A21N	16035	98.24%	99.43%	17471	96.97%	98.64%
RJJJ	PAL/A21N	291	98.28%	99.66%	7356	95.32%	98.14%
RJJJ	PAL/A321	2114	83.73%	89.31%	4221	85.50%	90.90%
RPHI	PAL/A321	1102	90.87%	93.49%	2993	91.43%	94.06%
WSJC	PAL/A321	2416	96.94%	98.04%	3326	97.47%	98.78%
NFFF	PAL/A333	1073	95.62%	98.04%	145	96.55%	98.62%
RJJJ	PAL/A333	12834	95.89%	98.59%	14947	97.82%	99.73%
WAAF	PAL/A333	3908	97.43%	98.37%	6074	98.88%	99.30%
KZAK	PEG/GLF4	165	95.76%	95.76%	489	97.14%	98.16%
RJJJ	PETRO/DC10	188	95.21%	98.40%			
NFFF	PVT/F900	117	100.00%	100.00%	108	96.30%	96.30%
NFFF	PVT/GL5T	260	99.23%	99.23%	200	92.00%	92.50%
NFFF	PVT/GLEX	2137	97.99%	99.49%	1117	96.60%	98.75%
NFFF	PVT/GLF5	1300	95.69%	98.15%	1226	96.49%	98.86%
NZZO	PVT/GLF5	818	98.28%	99.51%	805	96.27%	98.26%
VVTS	QFA				960	97.60%	98.32%
KZAK	QFA/A332	12808	98.20%	98.75%	13619	97.99%	98.65%
NFFF	QFA/A332				1021	98.33%	98.63%
NZZO	QFA/A332	8587	97.96%	98.70%	8098	97.93%	98.67%
NFFF	QFA/A333				3473	97.32%	97.98%
NZZO	QFA/A333	4635	97.95%	98.92%	2642	97.61%	98.59%
VOMM	QFA/A388	4854	98.99%	99.58%	2656	98.40%	98.74%
KZAK	QFA/B744	55010	98.14%	99.12%	39426	98.04%	98.95%
NFFF	QFA/B744	20986	97.62%	98.37%	9842	97.84%	98.61%
NZZO	QFA/B744	10488	97.54%	98.40%	11282	98.43%	98.95%
WSJC	QFA/B744	263	96.85%	98.86%			

KZAK	QFA/B748	0			4293	98.18%	98.60%
NZZO	QFA/B763	2348	98.67%	98.97%	2336	98.88%	99.40%
KZAK	QQE/GLF6	121	100.00%	100.00%	718	98.61%	98.89%
RJJJ	QQE/GLF6	102	95.10%	100.00%	537	96.46%	98.70%
WMFC	QTR/A332	2374	96.72%	98.26%	3028	98.77%	99.71%
VOMM	QTR/A359	9750	97.51%	98.72%	18715	99.22%	99.59%
VOMM	QTR/A35K	3589	97.78%	98.82%	11383	99.30%	99.80%
YMMM	QTR/B772	15006	90.25%	95.77%	13869	91.55%	96.33%
VOMM	QTR/B77L	1914	90.39%	95.59%	3971	89.30%	96.10%
WMFC	QTR/B77L	522	94.75%	97.84%	2661	87.30%	96.40%
VOMM	QTR/B77W	19402	90.89%	95.91%	24580	91.99%	96.70%
WAAF	QTR/B77W	1167	98.11%	98.86%	1383	96.05%	97.72%
WMFC	QTR/B77W	23606	93.71%	98.06%	22609	92.83%	98.14%
WAAF	QTR/B788	635	98.91%	99.63%	231	98.27%	98.67%
RJJJ	RAMEN/K35R	584	98.12%	98.63%	616	98.86%	100.00%
VVTS	RBA	613	97.59%	99.68%	1052	96.29%	98.74%
VOMM	RBA/A332				172	97.93%	98.83%
RJJJ	RCH/B752	104	97.12%	97.12%	130	100.00%	100.00%
NFFF	RCH/C17	166	100.00%	100.00%	201	97.51%	98.51%
NZZO	RCH/C17	1065	97.46%	98.30%	1650	98.72%	99.03%
PAZA	RCH/C5	593	98.31%	98.31%	399	99.75%	100.00%
RJJJ	RCH/C5	1125	99.11%	99.38%	627	96.81%	98.56%
RJJJ	RCH/C5M	0			426	98.59%	98.83%
KZAK	RCH/DC10	272	97.79%	99.63%	729	97.53%	98.49%
RJJJ	RCH/DC10	71	100.00%	100.00%	505	85.74%	87.13%
RJJJ	RDN/B737	329	96.05%	97.87%	26	96.15%	100.00%
KZAK	RKS/B737	351	98.86%	100.00%	430	97.67%	98.84%
RJJJ	RKS/GLEX	378	97.88%	99.74%	556	96.58%	98.74%
WSJC	RKS/GLF6	126	95.91%	96.50%			
WMFC	ROJ/B737	176	93.04%	99.45%	56	100.00%	100.00%
KZAK	ROU/B763	2380	97.14%	99.33%	4059	96.99%	98.99%
RJJJ	RUMMY/DC10	811	72.87%	77.56%	201	98.01%	99.50%
PAZA	SAM/B737	105	98.10%	98.10%	136	99.26%	100.00%
KZAK	SAM/GLF5	284	96.83%	98.59%	642	98.60%	99.69%

VOMM	SDM/B77W	360	94.31%	97.69%			
WAAF	SIA/ B77W	8510	95.96%	98.35%	8661	96.84%	98.72%
VOMM	SIA/B744	4220	84.50%	92.68%	2654	91.75%	96.12%
WMFC	SIA/B744	4878	86.61%	94.63%	2156	84.14%	92.04%
VOMM	SIA/B77W	20720	94.28%	97.36%	11155	93.80%	97.53%
RJJJ	SIA/B78X	10397	94.03%	99.72%	10028	95.82%	99.79%
KZAK	SIS/GLF5	0			188	97.87%	98.94%
VOMM	SLK/A320	3890	97.02%	98.78%	3447	95.91%	97.89%
YMMM	SND/A320	94	97.87%	97.87%	308	96.75%	98.38%
RJJJ	SOO/B744	267	94.38%	98.50%			
KZAK	SOO/B77L	8940	97.75%	98.48%	8420	98.63%	99.45%
VOMM	SVA/A332				367	95.42%	96.75%
VOMM	SVA/B744	1357	91.53%	97.90%	3204	91.23%	97.83%
WMFC	SVA/B744	635	95.96%	99.45%	1948	90.66%	97.82%
KZAK	SWA/B738	31319	96.37%	98.91%	76002	97.20%	98.67%
WMFC	SWR/B77W	10843	96.69%	98.67%	6641	95.41%	97.64%
VOMM	TBJ/CL60	152	90.39%	97.11%	137	99.65%	100.00%
KZAK	TBJ/FA7X	210	99.52%	99.52%	149	97.99%	97.99%
WMFC	TBJ/GLEX	108	86.73%	96.52%	28	100.00%	100.00%
KZAK	TBJ/GLF4	30	100.00%	100.00%	142	98.59%	98.59%
YBBB	TBJ/GLF4	19	100.00%	100.00%	109	96.33%	97.25%
RJJJ	TBJ/GLF6	94	100.00%	100.00%	226	96.46%	98.67%
VVTS	THA	452	93.58%	98.87%	638	96.87%	98.86%
WSJC	THA/B744	13382	97.58%	99.14%	5357	96.98%	98.84%
NZZO	THA/B772				229	96.50%	97.81%
VOMM	THA/B772	4178	95.02%	98.23%	4280	95.84%	98.66%
RPHI	THA/B773				166	93.04%	96.87%
VOMM	THA/B773				328	93.98%	97.08%
NFFF	THT/A343	111	78.38%	81.98%			
VOMM	THY/A333	6327	92.87%	96.10%	4294	94.41%	97.28%
WMFC	THY/A333	9285	96.56%	98.77%	6009	98.49%	99.50%
VOMM	THY/B77L	343	99.73%	100.00%	140	94.62%	99.20%
WMFC	THY/B77L				105	95.71%	98.80%
VOMM	THY/B77W	5772	96.76%	98.84%	4617	96.01%	98.57%

YBBB	TORA/C135				209	93.78%	98.09%
YMMM	TORA/C135				248	97.18%	98.79%
VVTS	UAE	3219	95.15%	99.45%	3115	94.80%	99.19%
RPHI	UAE /B77L	325	93.95%	99.05%	625	96.70%	99.94%
WAAF	UAE/ B77L	654	94.39%	98.44%	968	96.45%	99.23%
KZAK	UAL/B752	58352	96.54%	98.85%	37414	96.84%	99.00%
KZAK	UAL/B753	280	87.50%	90.00%	612	87.58%	91.34%
KZAK	UAL/B764	15497	96.13%	98.19%	14081	96.21%	98.34%
KZAK	UAL/B772	171068	97.49%	99.06%	199224	97.41%	98.95%
NFFF	UAL/B772	178	98.31%	98.88%	130	93.08%	94.62%
RJJJ	UAL/B772	52880	96.75%	98.50%	63735	97.05%	98.63%
NFFF	UAL/B77W	296	96.96%	98.99%	1523	99.74%	100.00%
RPHI	UIA/A321	128	92.50%	99.94%	110	99.20%	100.00%
KZAK	ULA/FA7X	356	96.07%	98.03%	106	99.06%	100.00%
KZAK	UPS/B744	15506	98.90%	99.50%	22961	97.82%	98.99%
NFFF	UPS/B744	3803	98.95%	99.66%	3126	97.22%	98.59%
WSJC	UPS/B744	973	97.07%	98.89%	342	96.09%	99.30%
KZAK	UPS/B748	15771	98.85%	99.37%	14678	98.06%	98.71%
PAZA	UPS/MD11	6032	97.31%	98.41%	2517	97.26%	99.52%
VVTS	USA	767	96.74%	99.33%	798	96.87%	98.66%
WSJC	V8B/B748	141	97.21%	97.71%			
RPHI	VBR/A320	156	94.87%	99.49%			
NZZO	VJT/GLEX				161	96.27%	98.75%
VOMM	VJT/GLEX	541	92.61%	97.06%	797	95.96%	98.49%
NFFF	VOZ/A332	597	92.46%	95.14%	1790	96.15%	98.49%
NZZO	VOZ/A332				110	94.54%	94.54%
WAAF	VOZ/A332	5770	97.21%	98.54%	4955	97.50%	98.89%
WMFC	VPC/GLEX	9	100.00%	100.00%	176	97.60%	98.67%
RJJJ	VPCMD/GLF5	87	98.85%	100.00%	187	96.79%	97.33%
WSJC	VQB/GLEX	112	95.09%	97.49%	125	97.88%	99.47%
RJJJ	WGN/B744	422	98.58%	99.53%	649	96.46%	98.00%
RJJJ	WOODN/DC10	237	96.62%	98.31%			
KZAK	WWI/GLF4	0			206	95.15%	96.60%
YMMM	XAX/A330	26917	98.27%	99.05%	30086	97.88%	98.68%

VOMM	XAX/A333	3686	90.78%	93.87%	2763	94.46%	96.61%
WAAF	XAX/A333	6839	97.78%	98.46%	8880	99.39%	99.81%
PAZA	XTN/DC10	0			111	92.79%	97.30%
ZLLL	OP1/T1				101	97.02%	98.01%
ZLLL	OP3/T1	2190	98.63%	99.31%	486	97.73%	98.76%
ZLLL	OP5/T2	1170	94.95%	98.71%	302	96.35%	99.33%
ZLLL	OP5/T3	101	95.04%	98.01%			
ZLLL	OP6/T2	1324	94.71%	99.84%	2649	93.05%	99.58%
ZLLL	OP8/T1	481	97.50%	98.96%	476	97.05%	98.10%
ZLLL	OP11/T2				123	95.12%	98.37%
ZLLL	OP13/T1				271	98.52%	98.52%
ZLLL	OP17/T1	7356	98.38%	99.23%	6786	97.30%	98.52%
ZLLL	OP18/T4	583	95.19%	98.97%	454	94.27%	96.91%
ZLLL	OP18/T5	40234	96.59%	98.93%	31029	96.36%	98.65%
ZLLL	OP27/T1	18198	95.32%	98.60%	23634	95.37%	98.41%
ZLLL	OP34/T4	1962	97.91%	98.47%	377	98.14%	98.67%
ZLLL	OP34/T5	544	96.69%	98.89%	880	98.63%	99.09%
ZLLL	OP34/T9	268	97.01%	98.13%	403	99.25%	100.00%
ZLLL	OP34/T10	117	97.43%	98.29%			
ZLLL	OP36/T2	7710	94.42%	99.75%	9055	94.75%	99.79%
ZLLL	OP42/T1	190	98.94%	99.47%	152	94.73%	98.02%
ZLLL	OP45/T2	506	98.22%	98.41%	344	100.00%	100.00%
ZLLL	OP46/T1	473	97.46%	98.30%	182	96.15%	96.70%
ZLLL	OP52/T1	137	96.35%	98.54%			
ZLLL	OP54/T2				121	94.21%	97.52%
ZWWW	OP2/T1	697	98.27%	98.85%	129	97.67%	98.44%
ZWWW	OP3/T2	1084	94.37%	99.44%	1595	94.29%	99.74%
ZWWW	OP4/T1	470	98.08%	98.51%	333	94.89%	96.69%
ZWWW	OP12/T1	3198	98.40%	99.09%	2661	97.63%	98.83%
ZWWW	OP13/T4	282	95.39%	97.51%	289	95.50%	98.61%
ZWWW	OP13/T5	19491	96.91%	98.90%	14995	96.49%	98.74%
ZWWW	OP22T1	9787	95.84%	98.78%	11777	95.96%	98.59%
ZWWW	OP28/T1	400	97.75%	98.25%	382	98.42%	99.73%
ZWWW	OP29/T3	732	98.22%	98.77%			

ZWWW	OP36/T1	220	96.36%	97.27%	242	97.10%	98.34%
ZWWW	OP37/T1	206	95.63%	96.60%	242	100.00%	100.00%
ZWWW	OP38/T1	374	97.59%	98.12%	102	99.01%	99.01%
ZWWW	OP39/T1	1471	96.39%	98.64%	1049	97.23%	99.33%

Criteria			RCP240									
Period			Jan - Jun 2019					Jul - Dec 2019				
Colour key Meets criteria 99.0%-99.9% Under criteria	By Media Type		Message Counts	95% benchmark		99.9% Benchmark		Message Counts	95% benchmark		99.9% Benchmark	
				ACP	ACTP	ACP	ACTP		ACP	ACTP	ACP	ACTP
				% <= 180sec	% <= 120sec	% <= 210sec	% <= 150sec		% <=180sec	% <= 120sec	% <= 210sec	% <= 150sec
<b>FIR</b>	<b>By Media Type</b>											
VVTS	VHF		19536	94.12%	99.17%	94.89%	99.49%	21953	94.21%	99.25%	94.95%	99.55%
WAAF	VHF		26996	98.55%	99.11%	98.82%	99.34%	26774	96.46%	99.55%	97.48%	99.59%
KZAK	HF		122	72.13%	68.85%	78.69%	76.23%	158	67.09%	59.49%	71.52%	67.72%
NFFF	HF		6	83.33%	83.33%	83.33%	83.33%	4	75.00%	75.00%	100.00%	100.00%
NZZO	HF		24	79.16%	91.66%	87.50%	95.83%	10	100.00%	100.00%	100.00%	100.00%
PAZA	HF		88	0.00%	0.00%	0.00%	0.00%	257	28.40%	28.40%	36.96%	37.74%
VYYF	HF		313	70.39%	73.48%	76.04%	80.19%	627	71.29%	71.93%	75.28%	80.54%
WMFC	HF		73	92.69%		95.07%		145	92.84%		95.92%	
WSJC	HF		62	65.77%	66.38%	73.79%	75.81%	86	78.49%	80.23%	81.88%	85.92%
YBBB	HF		11	54.55%	36.36%	54.55%	98.53%	8	50.00%	37.50%	50.00%	62.50%
YMMM	HF		10	30.00%	20.00%	40.00%	20.00%	4	50.00%	25.00%	50.00%	25.00%
KZAK	HF-SAT		815	97.55%	98.90%	98.65%	99.14%	987	97.47%	97.57%	98.68%	98.58%
PAZA	HF-SAT		173	89.60%	89.60%	91.33%	90.75%	350	86.57%	84.00%	91.14%	88.29%
KZAK	HF-VHF		43	88.37%	90.70%	93.02%	90.70%	71	94.37%	90.14%	94.37%	94.37%
PAZA	HF-VHF		13	92.31%	92.31%	92.31%	100.00%	16	100.00%	93.75%	100.00%	93.75%
RPHI	HF-VHF		163	87.93%	83.44%	89.88%	87.73%	347	86.32%	78.29%	87.65%	85.19%
PAZA	SAT		59883	99.03%	99.25%	99.34%	99.43%	61301	98.33%	98.15%	98.80%	98.68%
RPHI	SAT		1260	98.40%	99.86%	98.67%	99.89%	2536	99.27%	100.00%	99.37%	100.00%
VVTS	SAT		8387	95.98%	99.03%	96.51%	99.48%	8509	95.51%	98.88%	96.15%	99.29%
WAAF	SAT		13025	98.73%	99.31%	99.03%	99.57%	10288	95.75%	99.78%	96.83%	99.85%
WMFC	SAT		10267	97.57%		98.59%		13751	96.91%		98.05%	
WSJC	SAT		16514	97.83%	97.31%	98.55%	98.27%	20565	97.91%	97.41%	98.71%	98.34%
ZLLL	SAT		1502	99.13%	97.93%	99.53%	98.80%	1704	99.23%	98.29%	99.41%	99.06%
ZWWW	SAT		420	97.61%	95.23%	98.33%	96.42%	309	98.70%	96.76%	99.35%	97.41%
KZAK	SAT-HF		1283	86.75%	85.58%	89.63%	89.56%	984	85.37%	82.52%	87.91%	86.79%
PAZA	SAT-HF		99	69.70%	65.66%	71.72%	69.70%	169	67.46%	57.99%	71.01%	66.86%
KZAK	SAT-VHF		1651	86.07%	94.61%	87.95%	95.88%	1836	89.92%	94.06%	90.80%	95.75%
PAZA	SAT-VHF		923	96.10%	98.27%	97.07%	99.13%	788	96.32%	95.69%	97.21%	97.08%
RPHI	SAT-VHF		787	97.85%	100.00%	97.89%	100.00%	1728	98.07%	99.95%	98.17%	99.96%
WAAF	SAT-VHF		1562	98.60%	99.96%	98.64%	100.00%	1682	97.15%	100.00%	97.59%	100.00%
ZLLL	SAT-VHF		470	98.93%	98.51%	98.93%	98.72%	412	99.27%	98.05%	99.75%	99.27%
RPHI	VHF		7101	97.20%	98.72%	97.40%	98.76%	12988	97.31%	98.72%	97.49%	98.88%
VYYF	VHF		20548	98.44%	98.95%	98.72%	99.14%	33349	98.45%	98.88%	98.69%	99.14%
WMFC	VHF		10101	98.44%		98.90%		16350	98.36%		98.81%	
KZAK	VHF-HF		42	80.95%	88.10%	88.10%	90.48%	61	85.25%	80.33%	85.25%	88.52%
PAZA	VHF-HF		17	88.24%	88.24%	88.24%	88.24%	18	94.44%	94.44%	94.44%	94.44%

KZAK	VHF-SAT		1170	93.93%	95.21%	95.73%	97.27%	1364	96.70%	95.67%	97.87%	97.87%
PAZA	VHF-SAT		971	95.98%	93.10%	97.43%	97.43%	939	97.55%	92.23%	98.51%	97.34%
RPHI	VHF-SAT							128	91.66%	99.17%	92.08%	99.36%
<b>By Remote Ground Station (RGS) Ground Earth Station (GES)</b>												
<b>FIR</b>	<b>Designator</b>	<b>Type</b>	<b>(RGS/GES with message counts &gt;100)</b>									
RPHI	APK1	VHF	3082	97.18%	98.77%	97.51%	98.82%	4948	97.64%	98.55%	97.82%	98.75%
VVTS	APK1	SAT	6441	95.91%	99.05%	96.41%	99.43%	6760	95.49%	98.80%	96.08%	99.20%
VYYF	APK1	SAT	19766	98.75%	99.01%	98.99%	99.25%	14987	98.29%	98.72%	98.75%	98.97%
WAAF	APK1	VHF	8243	97.59%	98.44%	98.00%	98.69%	5241	93.83%	98.54%	96.07%	98.93%
WMFC	APK1	SAT	6256	97.27%		98.39%		8206	96.31%		97.67%	
WSJC	APK1	SAT	7825	97.63%	97.18%	98.25%	97.99%	10351	97.92%	97.42%	98.60%	98.20%
YBBB	APK1	SAT	4,295	98.23%	97.93%	98.84%	98.53%	4,796	98.81%	98.60%	99.25%	98.98%
RPHI	APK1SYA	SAT-VHF	134	96.27%	100.00%	97.01%	100.00%	102	98.04%	100.00%	99.02%	100.00%
VOMM	APK2	SAT	6755	98.25%	98.68%	98.94%	99.17%	2692	97.55%	98.43%	98.44%	99.11%
VVTS	APK2	VHF	4998	95.42%	99.02%	95.94%	99.42%	4420	95.18%	99.08%	95.75%	99.63%
VYYF	APK2	SAT	4750	98.39%	99.05%	98.91%	99.46%	3239	97.96%	98.78%	98.60%	99.22%
WAAF	APK2	VHF	2299	98.94%	99.48%	99.15%	99.70%	1137	97.30%	99.83%	98.77%	99.86%
WMFC	APK2	SAT	1222	96.85%		98.54%		1002	96.06%		97.50%	
WSJC	APK2	SAT	3352	97.58%	97.08%	98.75%	97.84%	3898	97.63%	96.77%	98.87%	97.95%
RPHI	BK1	VHF						104	90.93%	98.01%	91.08%	98.45%
VYYF	BKK	VHF	2093	98.79%	99.22%	98.92%	99.51%	2024	98.99%	99.20%	99.11%	99.25%
VYYF	BKKV	VHF						237	97.73%	98.75%	97.81%	98.89%
VVTS	BMV1	VHF	574	97.55%	100.00%	97.94%	100.00%	589	97.98%	99.86%	98.11%	99.88%
YBBB	BNE8	VHF	36	100.00%	100.00%	100.00%	100.00%	119	98.32%	100.00%	98.32%	100.00%
WAAF	BPN1	VHF	343	99.35%	99.52%	99.60%	99.75%	381	94.75%	95.83%	96.39%	97.69%
VOMM	BTJ1	VHF	1224	97.84%	99.18%	98.52%	99.57%	992	97.94%	99.19%	98.48%	99.57%
WMFC	BTJ1	VHF	989	98.27%		98.78%		2895	97.44%		98.43%	
WAAF	BTU	VHF	110	98.44%	98.59%	98.51%	98.72%					
WSJC	BTU	VHF	303	98.51%	98.66%	98.74%	99.38%	705	99.57%	99.86%	99.60%	99.86%
VYYF	CCU	VHF	421	97.66%	97.26%	97.93%	97.56%	562	96.98%	97.20%	97.12%	98.00%
RPHI	CEB	VHF	154	98.52%	94.58%	98.79%	94.71%	267	98.64%	98.08%	98.72%	98.32%
VYYF	CEI	VHF	175	98.87%	99.04%	98.92%	99.13%	152	97.66%	98.66%	97.84%	99.72%
VYYF	CNX	VHF	2477	98.45%	98.84%	98.65%	98.94%	2809	97.22%	97.85%	97.55%	98.14%
YBBB	CTL	VHF	296	99.32%	98.99%	100.00%	98.99%	345	98.84%	99.13%	98.84%	99.13%
VVTS	CXR	VHF	1446	94.36%	99.85%	94.88%	99.88%	1473	95.01%	99.98%	95.43%	100.00%
VVTS	CXR1	VHF						597	96.05%	100.00%	96.72%	100.00%
VVTS	DAD	VHF	214	98.60%	100.00%	98.79%	100.00%	131	98.14%	100.00%	98.45%	100.00%
VVTS	DAD1	VHF	141	96.41%	100.00%	97.85%	100.00%	179	99.34%	99.52%	99.61%	99.61%
VVTS	DLI1	VHF	226	94.54%	100.00%	95.53%	100.00%	1898	94.30%	99.95%	94.90%	99.96%
WAAF	DPS	VHF	917	98.71%	99.05%	98.87%	99.26%	625	98.15%	98.84%	98.69%	98.94%
RPHI	DVO	VHF	252	96.98%	99.65%	97.19%	99.73%	374	93.37%	97.91%	93.44%	98.00%
RPHI	DVO1	VHF	269	99.66%	100.00%	99.68%	100.00%	539	97.27%	100.00%	97.37%	100.00%
YMMM	EUA1	SAT	62	95.16%	95.16%	96.77%	96.77%	105	98.10%	99.05%	99.05%	99.05%
VOMM	EUA2	SAT						101	96.48%	96.46%	98.13%	99.11%

VYYF	EUA2	SAT						112	92.22%	90.68%	92.77%	93.65%
KZAK	H02AME1	HF-SAT	201	98.51%	99.50%	99.00%	100.00%	290	97.24%	97.59%	98.62%	97.93%
PAZA	H02APK1	HF-SAT	69	95.65%	95.65%	97.10%	95.65%	137	89.78%	97.08%	97.08%	98.54%
VYYF	H06	HF	289	69.32%	73.36%	75.09%	79.76%	585	71.62%	72.31%	75.38%	80.68%
WMFC	H06	HF	73	92.69%		95.07%		145	92.84%		95.92%	
RPHI	H16	HV	118	85.88%	84.75%	88.56%	88.98%	258	85.48%	78.52%	86.88%	84.73%
KZAK	H16APK1	HF-SAT	68	97.06%	100.00%	98.53%	100.00%	106	98.11%	100.00%	99.06%	100.00%
WMFC	HDY	VHF	487	98.26%		98.75%		701	98.61%		99.01%	
VYYF	HKT	VHF	488	96.11%	97.50%	96.30%	98.17%	755	95.59%	96.95%	95.89%	97.76%
WMFC	HKT	VHF	4070	98.26%		98.75%		5034	98.25%		98.59%	
RJJJ	IG1	SAT	3248	98.71%	99.17%	97.88%	98.61%	3601	98.78%	99.31%	98.42%	98.94%
VYYF	IG1	VHF	382	89.51%	95.46%	92.85%	97.36%	468	89.53%	93.59%	92.66%	96.87%
KZAK	IG1H01	SAT-HF	343	90.38%	88.63%	92.13%	92.42%	244	86.07%	84.43%	88.93%	89.34%
KZAK	IG1H02	SAT-HF	570	86.67%	87.19%	89.47%	90.00%	476	85.92%	84.24%	88.03%	87.61%
KZAK	IG1IG1	SAT-SAT	44347	97.83%	98.83%	98.50%	99.29%	45305	98.22%	98.59%	98.82%	99.19%
PAZA	IG1IG1	SAT-SAT	3945	97.97%	98.68%	98.88%	99.21%	4773	96.12%	97.72%	97.07%	98.07%
NFFF	IGW1	SAT	173	98.84%	100.00%	99.42%	100.00%	194	97.93%	99.48%	98.45%	99.48%
NZZO	IGW1	SAT	588	97.95%	99.48%	97.25%	99.82%	869	98.96%	99.07%	99.19%	99.65%
RPHI	IGW1	VHF	191	97.57%	99.36%	97.68%	99.52%	440	96.77%	99.60%	97.41%	99.71%
VVTS	IGW1	VHF	146	92.62%	99.81%	92.81%	100.00%	205	92.57%	98.46%	93.24%	99.05%
VYYF	IGW1	SAT	733	96.59%	98.17%	97.95%	98.64%	509	97.45%	98.13%	99.34%	99.07%
WAAF	IGW1	VHF	804	96.17%	96.59%	96.99%	98.51%	369	89.54%	97.98%	94.61%	98.97%
WMFC	IGW1	SAT	394	95.69%		97.38%		498	89.76%		93.71%	
WSJC	IGW1	SAT	3185	98.65%	97.88%	99.18%	99.37%	2992	97.59%	97.39%	98.43%	98.60%
KZAK	IGW1IGW1	SAT-SAT	13689	98.41%	99.77%	98.85%	99.85%	12014	98.37%	99.13%	98.79%	99.46%
PAZA	IGW1IGW1	SAT-SAT	2259	98.80%	99.34%	99.11%	99.60%	2206	97.42%	98.82%	98.69%	98.96%
VVTS	IOR2	SAT	259	96.80%	99.85%	97.11%	100.00%	50	98.27%	100.00%	98.41%	100.00%
YBBB	ISA	VHF	316	99.68%	99.68%	99.68%	99.68%	249	99.20%	97.99%	99.20%	97.99%
VYYF	IXZ1	VHF	634	97.21%	98.17%	97.51%	98.35%	1343	98.14%	98.82%	98.46%	99.16%
VYYF	JHG	VHF	155	98.85%	99.50%	98.92%	99.57%	148	99.42%	100.00%	99.48%	100.00%
VYYF	KDT	VHF	1344	98.23%	98.76%	98.48%	99.01%	1603	97.45%	97.54%	97.71%	97.94%
WMFC	KNO1	VHF	59	98.13%		98.65%		123	96.39%		96.85%	
WSJC	KUA1	VHF						209	97.97%	100.00%	98.22%	100.00%
WMFC	KUL2	VHF	138	98.05%		98.23%		215	100.00%		100.00%	
RPHI	LAO	VHF	372	97.09%	96.37%	97.16%	96.44%	612	97.45%	95.65%	97.70%	95.73%
VVTS	LAO	VHF	135	99.45%	100.00%	99.52%	100.00%	86	99.65%	100.00%	99.84%	100.00%
YBBB	LRE	VHF	223	100.00%	99.10%	100.00%	99.10%	149	100.00%	98.66%	100.00%	98.66%
VYYF	LUM	VHF	1538	98.85%	99.10%	98.92%	99.15%	1798	98.62%	99.11%	98.89%	99.34%
YBBB	MCY	VHF	89	97.75%	96.63%	97.75%	96.63%	204	99.51%	99.51%	99.51%	99.51%
WAAF	MDC1	VHF	739	98.91%	98.85%	99.19%	99.07%	455	92.75%	97.65%	94.09%	97.90%
VYYF	MDL	VHF	1388	97.83%	98.66%	98.35%	98.76%	1244	98.13%	98.31%	98.25%	98.51%
RPHI	MNL	VHF	205	98.54%	96.71%	98.62%	96.79%	391	99.32%	99.17%	99.36%	99.24%
WAAF	MTS1	VHF	338	98.12%	99.03%	99.16%	99.23%	284	95.85%	99.40%	97.58%	99.59%
WAAF	MYI	VHF	182	98.82%	99.01%	98.83%	99.11%	185	99.30%	100.00%	100.00%	100.00%
VVTS	N/A	VHF	480	56.56%	90.83%	64.17%	94.11%	60	97.28%	100.00%	97.52%	100.00%

VVTS	NAW	VHF	103	97.64%	100.00%	97.85%	100.00%	8	100.00%	100.00%	100.00%	100.00%
YBBB	NTL	VHF	255	97.65%	98.43%	98.04%	98.43%	203	99.01%	99.51%	99.51%	99.51%
VYYF	NYT	VHF						333	97.24%	98.80%	98.51%	99.38%
WMFC	PEN1	VHF	459	98.39%		99.35%		592	97.57%		98.30%	
PAZA	PKC1APK1	VHF-SAT	122	95.08%	86.89%	96.72%	95.90%	141	85.11%	95.04%	95.04%	98.58%
PAZA	PKC1XXA	VHF-SAT	263	97.34%	86.69%	98.86%	96.58%	160	89.38%	97.50%	99.38%	99.38%
RPHI	PPS	VHF	162	97.72%	98.90%	97.98%	99.17%	301	97.87%	99.44%	97.94%	99.73%
WSJC	PPS	VHF	260	98.85%	98.63%	98.93%	98.79%	250	100.00%	99.97%	100.00%	100.00%
VVTS	PQC	VHF	136	98.24%	99.39%	98.48%	99.69%	28	94.55%	100.00%	96.45%	100.00%
VYYF	RGN	VHF	1419	98.41%	99.10%	98.92%	99.34%	1369	98.90%	99.00%	99.06%	99.31%
YBBB	ROK	VHF	492	99.59%	98.98%	99.59%	98.98%	292	100.00%	100.00%	100.00%	100.00%
WAAF	SBW	VHF	153	98.82%	98.89%	98.88%	99.02%					
WSJC	SBW	VHF	279	98.92%	98.71%	98.99%	98.85%	366	99.41%	99.35%	99.46%	99.46%
RPHI	SDK	VHF						159	99.07%	98.71%	99.19%	98.87%
VVTS	SGN	VHF	1299	91.86%	99.96%	92.44%	100.00%	6	100.00%	100.00%	100.00%	100.00%
VVTS	SGN1	VHF	667	90.70%	99.05%	91.82%	99.37%	909	89.10%	99.95%	89.88%	100.00%
VVTS	SGN7	VHF	742	94.22%	99.25%	94.47%	99.30%	713	91.00%	99.72%	91.87%	99.75%
WMFC	SIN	VHF	311	98.12%		98.33%		542	99.52%		99.60%	
WSJC	SIN2	VHF	189	98.57%	99.55%	98.65%	99.63%	444	100.00%	99.87%	100.00%	100.00%
WAAF	SOC1	VHF	453	99.79%	99.86%	99.81%	99.90%	294	97.81%	100.00%	97.91%	100.00%
WAAF	SOQ1	VHF	543	99.34%	99.26%	99.46%	99.47%	332	95.02%	96.62%	97.04%	97.88%
WAAF	SUB	VHF	1444	98.84%	99.36%	98.86%	99.60%	671	98.41%	99.31%	98.68%	99.36%
YBBB	SYD	VHF	131	100.00%	100.00%	100.00%	100.00%	128	98.44%	98.44%	98.44%	98.44%
RPHI	SYX	VHF	103	97.09%	96.59%	97.21%	96.76%	163	93.64%	92.96%	93.79%	93.10%
VVTS	SYX	VHF	2099	96.47%	99.52%	97.17%	99.94%	54	96.60%	100.00%	96.86%	100.00%
VVTS	TGG	VHF	960	96.96%	99.50%	97.69%	99.56%	842	96.48%	99.54%	96.66%	99.73%
WSJC	TGG	VHF						128	97.50%	96.76%	98.08%	97.95%
VOMM	TRV1	VHF						273	98.67%	100.00%	98.81%	100.00%
YBBB	TSV	VHF	354	99.44%	98.87%	99.44%	98.87%	289	99.65%	99.65%	100.00%	99.65%
WAAF	TTE1	VHF	569	98.32%	98.73%	99.15%	99.07%	1376	96.68%	99.77%	96.96%	99.82%
WAAF	TWU	VHF	183	95.20%	97.80%	96.25%	98.27%	383	99.75%	100.00%	99.77%	100.00%
WAAF	TWU1	VHF	374	99.03%	100.00%	99.19%	100.00%	543	97.32%	100.00%	97.40%	100.00%
VVTS	UIH	VHF	444	97.47%	100.00%	98.06%	100.00%	715	97.13%	100.00%	97.80%	100.00%
VVTS	UIH1	VHF	165	97.14%	99.83%	97.23%	100.00%	354	97.58%	99.88%	97.80%	100.00%
VYYF	USM	VHF	254	99.25%	99.32%	99.28%	99.38%	453	96.81%	97.43%	96.85%	97.69%
WMFC	USM	VHF	357	98.36%		98.94%		725	98.07%		98.33%	
VYYF	UTP	VHF	388	99.42%	99.54%	99.50%	99.60%	340	98.27%	98.41%	98.36%	98.56%
VVTS	VCS	VHF	2304	95.15%	99.96%	95.52%	99.98%	1946	96.13%	100.00%	96.57%	100.00%
VVTS	VCSV	VHF	140	92.87%	99.82%	93.00%	100.00%	294	94.93%	99.81%	95.25%	100.00%
RPHI	XXA	SAT	707	98.43%	100.00%	98.62%	100.00%	1668	99.36%	100.00%	99.43%	100.00%
VVTS	XXA	SAT	1521	96.06%	98.82%	96.67%	99.54%	1612	95.79%	99.37%	96.53%	99.83%
WAAF	XXA	SV	894	97.89%	99.92%	97.96%	100.00%					
WAAF	XXA	SAT	8775	98.21%	99.23%	98.55%	99.56%	6027	95.55%	99.16%	96.91%	99.44%
WSJC	XXA	SAT	1226	97.93%	97.64%	98.45%	98.59%	1957	99.29%	98.57%	99.57%	99.40%
PAZA	XXAXXA	SAT-SAT	20388	99.01%	99.17%	99.31%	99.32%	21761	98.41%	98.82%	98.89%	99.26%

VVYF	XXF	SAT	178	94.02%	93.07%	94.61%	94.45%	166	90.46%	91.23%	92.12%	92.69%
NTTT	XXH	SAT	179	98.32%	99.44%	98.32%	99.44%	159	100.00%	100.00%	100.00%	100.00%
PAZA	XXHXXH	SAT-SAT	3471	99.14%	99.22%	99.51%	99.48%	1820	98.30%	98.63%	98.52%	98.90%
RPHI	XXP	SAT	553	98.46%	99.72%	98.78%	99.77%	868	99.14%	100.00%	99.31%	100.00%
RPHI	XXP	SV	289	99.31%	100.00%	99.33%	100.00%	537	98.62%	100.00%	98.71%	100.00%
VVTS	XXP	VHF	1039	93.86%	97.64%	95.25%	98.63%	861	92.92%	97.19%	94.48%	97.75%
WAAF	XXP	SAT	4681	98.89%	99.28%	99.17%	99.58%	2364	97.46%	99.29%	98.18%	99.34%
WMFC	XXP	SAT	195	98.94%		99.18%		272	98.53%		98.83%	
WSJC	XXP	SAT	868	97.70%	96.77%	98.32%	98.05%	1286	97.38%	97.36%	98.41%	98.29%
PAZA	XXPXXP	SAT-SAT	5836	98.82%	99.47%	99.21%	99.62%	6107	98.76%	99.28%	98.84%	99.23%
PAZA	XXWXXW	SAT-SAT	1225	98.61%	98.37%	99.18%	98.94%	699	98.00%	98.57%	98.43%	99.28%
RPHI	ZAM	VHF	512	92.31%	98.12%	92.43%	98.19%	781	94.94%	98.53%	95.19%	98.98%
WAAF	ZAM	VHF	217	81.14%	99.60%	81.41%	99.73%	219	88.12%	100.00%	88.80%	100.00%
ZLLL	GES1	SAT	611	98.85%	99.01%	99.50%	99.01%	930	98.92%	98.92%	99.03%	99.13%
ZLLL	GES2	SAT	177	97.74%	92.09%	98.30%	94.91%	111	100.00%	92.79%	100.00%	98.19%
ZLLL	GES3	SAT	299	100.00%	97.65%	100.00%	99.66%	292	99.31%	96.57%	100.00%	98.28%
ZLLL	GES6	VHF	165	98.18%	98.18%	98.18%	98.18%	155	99.35%	99.35%	99.35%	99.35%
ZLLL	GES10	SV	128	96.87%	95.31%	96.87%	95.31%					

Criteria		RCP240											
Period		Jan - Jun 2019					Jul - Dec 2019						
Colour key Meets criteria 99.0%-99.9% Under criteria	Message Counts	95% benchmark		99.9% Benchmark		95%	Message Counts	95% benchmark		99.9% Benchmark	95%		
		ACP	ACTP	ACP	ACTP	PORT		ACP	ACTP	ACP	ACTP	PORT	
		% <= 180sec	% <= 120sec	% <= 210sec	% <= 150sec	% <60secs		% <=180sec	% <= 120sec	% <= 210sec	% <= 150sec	% <60secs	
<b>FIR</b>	<b>By Aircraft Operator / Type (only message counts &gt;100 recorded)</b>												
VVTS	AAR	432	94.52%	98.47%	95.87%	98.65%	90.15%	219	96.60%	99.44%	97.89%	99.64%	93.15%
VVTS	ANA	449	95.80%	99.56%	96.00%	99.58%	92.47%	540	93.69%	99.53%	94.68%	99.66%	89.17%
VVTS	AXM	511	94.47%	99.19%	95.50%	99.34%	91.39%	604	94.68%	99.66%	95.09%	99.78%	90.56%
VVTS	CAL	1072	93.89%	99.51%	94.66%	100.00%	89.46%	1136	93.13%	99.02%	94.89%	99.48%	90.26%
VVTS	CCA	225	94.67%	99.84%	94.84%	100.00%	91.38%	244	94.08%	98.99%	94.24%	99.23%	92.21%
VVTS	CES	362	95.29%	99.50%	96.22%	99.55%	92.27%	515	94.07%	99.88%	94.68%	99.93%	90.49%
VVTS	CPA	1492	93.46%	98.90%	94.10%	99.23%	90.01%	1940	93.55%	98.14%	94.37%	98.44%	89.54%
VVTS	CRK	170	97.67%	99.24%	98.24%	100.00%	95.49%	254	97.36%	99.61%	97.57%	99.66%	93.98%
VVTS	ETD	345	96.01%	99.63%	96.07%	100.00%	93.77%	322	96.06%	99.71%	96.20%	99.76%	94.76%
VVTS	EVA	713	95.15%	99.07%	96.11%	99.48%	91.87%	780	96.12%	99.83%	96.84%	99.90%	92.31%
VVTS	FDX	127	95.83%	98.71%	96.14%	99.20%	90.71%	94	90.15%	100.00%	91.17%	100.00%	77.43%
VVTS	GIA	152	93.81%	100.00%	94.39%	100.00%	90.74%	42	98.43%	100.00%	98.84%	100.00%	96.77%
VVTS	JAL	711	94.62%	99.43%	94.91%	99.86%	92.19%	798	94.15%	98.82%	94.87%	99.34%	90.48%
VVTS	JST	148	91.28%	98.13%	91.60%	98.27%	88.44%	187	90.24%	100.00%	91.20%	100.00%	87.65%
VVTS	KAL	1501	94.52%	98.73%	95.85%	99.25%	91.56%	1339	93.65%	98.81%	94.73%	99.41%	90.37%
VVTS	MAS	1597	95.46%	99.39%	96.10%	99.43%	92.30%	1581	95.21%	99.69%	95.50%	99.73%	93.11%
VVTS	OMA	147	96.26%	100.00%	96.70%	100.00%	93.99%	115	100.00%	100.00%	100.00%	100.00%	98.54%

VVTS	QFA		116	96.16%	100.00%	96.67%	100.00%	90.95%	93	98.80%	98.14%	99.01%	98.59%	93.41%
VVTS	QTR		402	97.75%	99.64%	97.89%	99.76%	95.02%	282	96.72%	100.00%	97.12%	100.00%	95.07%
VVTS	RBA		148	93.97%	100.00%	94.38%	100.00%	87.04%	239	89.12%	99.51%	89.31%	99.66%	84.68%
VVTS	SCO		1251	96.17%	99.61%	96.48%	99.85%	93.75%	1299	96.64%	99.60%	97.15%	99.78%	94.77%
VVTS	SIA		4868	94.35%	98.58%	95.09%	99.26%	91.15%	4213	94.18%	98.20%	94.90%	99.03%	91.31%
VVTS	SLK		251	92.40%	99.71%	93.63%	99.86%	86.16%	96	92.64%	95.83%	94.69%	96.61%	84.52%
VVTS	SQC		185	93.97%	100.00%	95.62%	100.00%	89.19%	265	91.93%	98.11%	92.45%	98.91%	89.34%
VVTS	UAE		369	96.51%	98.78%	97.32%	99.46%	91.06%	267	95.97%	98.75%	97.45%	99.73%	93.33%
VVTS	XAX		908	94.46%	99.52%	95.21%	99.60%	91.98%	1207	94.66%	99.71%	95.23%	99.84%	91.14%
VVTS	SCO182		117	98.39%	100.00%	99.12%	100.00%	95.93%	135	95.50%	99.69%	95.73%	100.00%	92.94%
KZAK	AAL/A21N		0						875	97.49%	100.00%	98.40%	100.00%	90.51%
KZAK	AAL/A321		2	100.00%	100.00%	100.00%	100.00%	100.00%	110	99.09%	100.00%	99.09%	100.00%	94.55%
KZAK	AAL/B772		3399	99.62%	99.59%	99.76%	99.79%	98.65%	3250	99.23%	98.12%	99.48%	99.05%	93.88%
PAZA	AAL/B772		529	98.87%	99.05%	99.05%	99.05%	98.11%	715	97.34%	98.32%	98.74%	98.88%	93.99%
RJJJ	AAL/B772		258	98.06%	98.45%	98.45%	99.22%	99.22%	409	99.02%	99.02%	99.02%	99.76%	99.76%
RJJJ	AAL/B77W		392	98.47%	98.47%	98.72%	99.23%	99.23%	673	99.41%	99.41%	99.11%	99.41%	99.26%
RJJJ	AAR/A333		189	100.00%	100.00%	100.00%	100.00%	97.88%	144	99.31%	99.31%	98.61%	100.00%	98.61%
VYYF	AAR/A333		163	90.54%	92.74%	91.50%	93.48%	89.81%						
WSJC	AAR/A333		143	95.45%	96.81%	95.59%	97.55%	93.18%	106	98.76%	99.50%	100.00%	100.00%	96.57%
PAZA	AAR/A359		960	99.58%	99.69%	100.00%	99.79%	97.71%	936	97.97%	98.50%	97.65%	98.29%	95.41%
WSJC	AAR/B744		110	96.92%	99.55%	97.59%	100.00%	96.10%	138	98.11%	98.71%	98.52%	99.10%	94.69%
PAZA	AAR/B772		485	100.00%	99.59%	100.00%	100.00%	98.97%	379	97.63%	97.89%	98.68%	98.68%	96.57%
KZAK	ABW/B748		100	100.00%	100.00%	100.00%	100.00%	98.00%	118	100.00%	97.46%	100.00%	100.00%	94.92%
PAZA	ACA/B763		229	98.69%	98.69%	99.13%	98.69%	98.69%	340	96.47%	97.35%	96.47%	97.94%	92.65%
PAZA	ACA/B77L		323	98.45%	98.45%	98.76%	98.45%	97.52%	395	97.97%	98.73%	98.48%	98.73%	95.70%
NFFF	ACA/B788		244	99.18%	99.18%	99.59%	99.59%	97.95%	272	98.16%	98.89%	98.53%	98.89%	98.16%
PAZA	ACA/B788		524	99.43%	99.62%	99.81%	99.62%	98.28%	334	96.71%	97.31%	97.01%	97.31%	94.61%
NFFF	ACA/B789		210	98.57%	98.57%	99.52%	98.57%	99.04%	228	99.12%	98.24%	99.12%	98.68%	99.56%
PAZA	ACA/B789		2797	99.21%	99.28%	99.43%	99.39%	99.50%	2706	98.08%	98.60%	97.93%	98.41%	96.45%
VOMM	AFL/A333		157	98.17%	98.34%	98.34%	98.60%	99.47%						
VYYF	AFL/A333		121	96.75%	97.25%	96.96%	97.63%	95.45%	366	94.95%	95.25%	95.29%	96.00%	90.37%
VOMM	AFL/B77W		125	99.45%	98.83%	98.83%	100.00%	95.11%						
VYYF	AFL/B77W		621	97.78%	97.82%	98.33%	98.03%	96.62%	745	98.26%	98.34%	98.48%	98.93%	96.38%
VOMM	AIC/A320		101	98.97%	98.63%	99.09%	98.89%	97.15%						
WSJC	AIC/B788								120	97.73%	96.49%	98.36%	97.59%	99.40%
WSJC	AJX/B789		158	98.84%	98.90%	98.88%	99.00%	98.67%	480	97.23%	97.17%	97.31%	97.24%	97.17%
VYYF	ALK/A21N		154	100.00%	100.00%	100.00%	100.00%	98.21%	224	98.28%	98.32%	99.56%	98.51%	96.65%
VYYF	ALK/A320		118	97.98%	98.73%	98.15%	98.90%	97.82%	130	98.04%	97.70%	98.36%	98.02%	98.70%
KZAK	ANA/A388		71	95.77%	100.00%	97.18%	100.00%	94.37%	1139	99.74%	100.00%	99.82%	100.00%	97.45%
WSJC	ANA/B77W								192	98.74%	98.08%	98.92%	98.96%	98.30%
VYYF	ANA/B788		581	97.64%	98.47%	98.22%	98.64%	95.70%	622	95.35%	95.54%	95.70%	96.36%	94.21%
RPHI	ANA/B789		192	99.26%	98.82%	99.42%	98.94%	98.22%	388	98.64%	98.63%	98.86%	99.03%	96.52%
VYYF	ANA/B789			0.00%	0.00%	0.00%	0.00%	0.00%	205	91.68%	93.29%	93.19%	93.94%	91.46%
WSJC	ANA/B789		1454	98.78%	98.13%	99.20%	98.69%	99.14%	1651	98.99%	98.85%	99.07%	98.97%	98.71%
WSJC	ANA/B78X		171	99.62%	99.43%	99.73%	99.53%	99.84%	263	98.50%	98.52%	98.53%	98.59%	97.89%

NZZO	ANZ/A20N								218	99.54%	99.08%	99.54%	100.00%	92.66%
NZZO	ANZ/A21N	473	98.52%	99.78%	98.52%	100.00%	94.92%		639	99.06%	99.21%	99.22%	99.53%	97.18%
YBBB	ANZ/A21N	258	98.06%		98.84%				508	98.82%		98.82%		
KZAK	ANZ/B772	1970	98.78%	99.70%	98.98%	99.85%	98.17%		1612	99.44%	99.50%	99.50%	99.63%	97.02%
WAAF	ANZ/B772	304	98.31%	99.25%	99.07%	99.43%	97.42%		397	96.53%	99.32%	97.77%	99.46%	99.64%
KZAK	ASA/B738	23619	96.57%	98.02%	97.43%	98.70%	94.58%		21110	97.46%	98.09%	98.09%	98.84%	93.46%
PAZA	ASA/B738	96	95.83%	97.92%	95.83%	98.96%	93.75%		132	96.97%	100.00%	98.48%	98.48%	93.18%
KZAK	ASA/B739	5487	96.83%	98.12%	97.67%	98.71%	94.61%		7117	97.30%	97.92%	98.10%	98.71%	94.14%
KZAK	ASY/C17	0							240	98.33%	99.17%	98.33%	99.17%	96.25%
WMFC	BAW/A388	364	98.08%		98.61%				448	98.17%		98.62%		
YBBB	BAW/B773	124	100.00%		100.00%				148	98.65%		98.65%		
WMFC	BAW/B77W	309	96.28%		96.75%				453	98.01%		98.79%		
WSJC	CAL/A333	382	97.64%	97.43%	98.80%	98.02%	96.16%		550	97.62%	97.23%	98.86%	98.19%	96.91%
RPHI	CAL/A359	218	95.43%	95.00%	95.73%	95.91%	94.24%		452	94.06%	94.16%	94.15%	94.79%	91.65%
VYYF	CAL/A359	130	94.82%	95.38%	95.27%	95.80%	92.00%		221	90.05%	90.05%	91.10%	92.08%	89.27%
WAAF	CAL/A359	1162	95.89%	97.99%	96.56%	98.33%	93.55%		1122	94.83%	98.99%	96.56%	99.50%	97.83%
WSJC	CAL/B744	188	99.84%	99.60%	100.00%	100.00%	94.15%		326	99.09%	99.05%	99.31%	99.19%	97.55%
PAZA	CAL/B77W	947	99.68%	99.26%	99.68%	99.89%	99.47%		700	95.71%	96.29%	96.86%	98.43%	93.71%
WAAF	CAL/B77W	205	97.93%	98.62%	98.37%	98.87%	96.69%							
KZAK	CAO/B77L	274	98.54%	98.18%	98.54%	98.54%	99.27%		423	97.87%	97.40%	98.35%	97.64%	96.45%
PAZA	CAO/B77L	254	97.64%	98.43%	98.03%	98.43%	97.64%		318	98.74%	98.74%	98.74%	99.06%	94.97%
YBBB	CBJ/A330	202	89.60%		92.57%				203	88.18%		91.63%		
KZAK	CBJ/A332	114	100.00%	100.00%	100.00%	100.00%	99.12%		106	100.00%	100.00%	100.00%	100.00%	94.34%
WAAF	CBJ/A332	339	90.12%	92.33%	92.17%	94.56%	89.15%		263	86.80%	92.45%	87.28%	94.01%	95.02%
VYYF	CCA/A332	240	98.12%	99.09%	98.59%	99.75%	95.07%		302	99.25%	99.43%	99.64%	99.61%	96.03%
WAAF	CCA/A332	464	95.33%	99.37%	95.49%	99.45%	94.40%		103	89.55%	97.15%	90.14%	98.07%	93.70%
WAAF	CCA/A333	567	98.66%	99.93%	98.77%	100.00%	97.41%		300	93.48%	99.52%	94.67%	100.00%	96.34%
KZAK	CCA/B748	367	99.45%	100.00%	99.45%	100.00%	99.18%		247	98.38%	97.57%	98.79%	98.38%	93.52%
PAZA	CCA/B748	352	96.88%	95.74%	97.44%	96.88%	97.73%		244	89.75%	91.80%	91.39%	93.44%	85.66%
KZAK	CCA/B77W	904	99.56%	99.78%	99.56%	99.78%	99.56%		857	99.88%	99.77%	99.88%	99.88%	94.40%
PAZA	CCA/B77W	459	98.26%	97.82%	98.26%	98.26%	99.35%		505	95.05%	95.84%	96.44%	96.83%	89.70%
VOMM	CCA/B77W	140	97.30%	94.98%	97.45%	97.20%	97.53%		137	99.13%	100.00%	100.00%	100.00%	98.22%
YBBB	CCA/B787	197	99.49%		99.49%				184	95.65%		96.74%		
PAZA	CCA/B789	203	99.51%	99.51%	99.51%	99.51%	99.51%		148	97.30%	97.30%	97.30%	97.30%	85.14%
RPHI	CEB/A333	154	96.67%	100.00%	96.78%	100.00%	91.56%		278	96.94%	99.88%	97.38%	100.00%	93.88%
WAAF	CEB/A333	622	97.57%	99.27%	97.91%	99.68%	96.52%		420	94.70%	99.77%	96.19%	99.86%	97.18%
RPHI	CES/A332	198	92.45%	100.00%	92.59%	100.00%			482	96.56%	99.39%	96.98%	99.52%	92.22%
WAAF	CES/A332	1533	99.10%	99.48%	99.15%	99.76%	97.06%		1024	92.87%	98.17%	95.15%	98.52%	98.35%
RPHI	CES/A333								141	96.30%	100.00%	96.78%	100.00%	91.19%
YBBB	CES/A350	129	98.45%		99.33%				219	95.89%		96.80%		
WAAF	CES/A359								183	96.04%	100.00%	98.68%	100.00%	99.78%
PAZA	CES/B77W	2060	99.13%	98.59%	99.27%	98.98%	99.47%		2085	96.79%	97.31%	97.22%	97.60%	94.24%
WAAF	CES/B789	463	98.42%	100.00%	99.57%	100.00%	92.01%		416	89.30%	98.59%	94.44%	99.20%	99.49%
WAAF	CHH/A332	496	98.63%	99.53%	98.91%	100.00%	96.57%		109	94.15%	100.00%	95.11%	100.00%	95.59%
RPHI	CHH/A333	195	95.49%	100.00%	95.65%	100.00%	94.98%		381	96.60%	100.00%	96.66%	100.00%	93.75%

WAAF	CHH/A333		927	96.45%	99.53%	96.75%	99.79%	94.07%	748	92.65%	99.84%	95.29%	100.00%	97.33%
KZAK	CHH/B788		278	98.92%	98.92%	98.92%	99.28%	99.64%	172	99.42%	99.42%	100.00%	99.42%	94.19%
PAZA	CHH/B789		302	96.03%	96.36%	97.68%	96.36%	98.34%	394	97.97%	98.48%	97.21%	98.98%	96.70%
KZAK	CKK/B77L		958	99.90%	99.90%	99.90%	100.00%	99.90%	1075	99.35%	98.98%	99.53%	99.35%	94.51%
RJJJ	CKK/B77L		123	98.37%	98.37%	98.37%	99.19%	100.00%	196	100.00%	100.00%	100.00%	100.00%	99.49%
KZAK	CKS/B744		935	98.18%	99.47%	99.68%	99.89%	93.69%	877	97.49%	97.83%	98.52%	98.63%	92.59%
PAZA	CKS/B744		751	98.00%	99.60%	99.07%	99.60%	93.74%	852	96.13%	97.30%	96.60%	97.30%	90.02%
RJJJ	CKS/B744		182	98.90%	99.45%	98.35%	99.45%	96.70%	194	98.97%	99.48%	98.45%	98.97%	94.33%
VYYF	CKS/B744		282	95.01%	97.44%	97.80%	98.73%	91.13%	246	95.53%	97.97%	98.02%	99.50%	88.82%
VYYF	CLX/B744		137	98.05%	100.00%	99.17%	100.00%	93.92%	220	96.84%	97.85%	98.30%	98.69%	96.36%
RPHI	CPA/A333		229	96.97%	100.00%	97.04%	100.00%	91.92%	482	97.64%	100.00%	97.86%	100.00%	92.79%
WAAF	CPA/A333		1860	98.94%	99.76%	99.06%	99.84%	97.42%	1358	98.01%	99.95%	98.48%	100.00%	98.34%
WSJC	CPA/A333		305	99.65%	99.76%	99.69%	100.00%	93.55%	432	99.32%	99.46%	99.87%	99.59%	96.41%
KZAK	CPA/A359		1085	100.00%	100.00%	100.00%	100.00%	98.62%	1734	99.77%	99.88%	99.83%	99.88%	94.52%
PAZA	CPA/A359		685	98.83%	99.12%	99.12%	99.12%	96.93%	1099	98.64%	98.73%	98.27%	98.45%	94.81%
RPHI	CPA/A359		356	94.16%	100.00%	94.19%	100.00%	91.39%	684	97.59%	99.94%	97.75%	99.97%	93.42%
WAAF	CPA/A359		2568	97.86%	99.86%	98.01%	99.90%	97.03%	1754	96.82%	99.74%	96.87%	99.78%	97.07%
PAZA	CPA/A35K		187	98.93%	99.47%	99.47%	99.47%	95.19%	175	96.57%	97.71%	96.57%	96.57%	90.86%
WAAF	CPA/A35K								509	98.26%	99.96%	98.32%	100.00%	98.48%
VYYF	CPA/B744		645	97.52%	98.36%	98.19%	99.11%	93.80%	634	97.89%	99.21%	98.30%	99.43%	93.38%
KZAK	CPA/B748		263	97.72%	98.48%	97.72%	98.48%	98.48%	297	97.98%	97.31%	97.98%	97.98%	94.28%
PAZA	CPA/B748		2230	98.16%	98.52%	98.34%	98.65%	98.16%	2478	97.01%	97.70%	97.13%	97.62%	95.80%
RJJJ	CPA/B748		618	98.87%	99.19%	99.35%	99.35%	99.84%	742	99.06%	99.19%	98.79%	99.06%	99.33%
VYYF	CPA/B748		183	94.77%	95.26%	95.69%	95.61%	96.54%	199	97.63%	96.86%	97.88%	97.61%	98.19%
YMMM	CPA/B773		190	94.74%		96.32%			188	96.81%		96.81%		
VYYF	CPA/B774		194	98.10%	100.00%	98.57%	100.00%	92.78%	182	99.48%	99.96%	100.00%	100.00%	97.53%
KZAK	CPA/B77W		8113	99.24%	99.12%	99.51%	99.41%	98.27%	8036	98.44%	97.35%	99.05%	98.43%	94.56%
PAZA	CPA/B77W		4050	98.35%	98.30%	98.91%	98.89%	96.77%	3936	95.63%	97.31%	97.03%	97.54%	93.42%
RJJJ	CPA/B77W		2570	98.44%	98.75%	98.40%	98.99%	98.91%	2809	98.22%	98.86%	98.50%	98.93%	98.08%
RPHI	CPA/B77W		218	99.30%	99.55%	99.82%	99.55%	90.95%	324	97.69%	100.00%	98.17%	100.00%	85.34%
VOMM	CPA/B77W		634	98.55%	98.03%	99.12%	98.62%	98.11%	665	96.52%	95.69%	97.53%	97.10%	97.34%
VYYF	CPA/B77W		1455	97.47%	97.39%	97.94%	97.65%	97.50%	1435	96.75%	96.59%	97.55%	97.41%	96.10%
WAAF	CPA/B77W		1363	98.67%	98.65%	99.01%	99.12%	98.31%	652	95.45%	97.24%	96.47%	97.88%	99.23%
VYYF	CRK/A332		312	96.01%	97.49%	96.50%	97.66%	93.99%	288	95.90%	96.84%	96.19%	97.42%	92.86%
VYYF	CRK/A333		123	100.00%	100.00%	100.00%	100.00%	100.00%	124	98.56%	100.00%	98.69%	100.00%	96.16%
RPHI	CSC/A332								226	94.87%	100.00%	95.09%	100.00%	92.51%
WAAF	CSC/A332		239	97.80%	98.05%	98.37%	98.61%	95.48%	239	92.22%	98.83%	94.15%	99.22%	94.83%
RPHI	CSC/A333								112	94.46%	100.00%	94.71%	100.00%	90.92%
WAAF	CSC/A359		233	93.87%	100.00%	94.58%	100.00%	92.27%						
YBBB	CSN/A330		2,195	97.54%		97.77%			2,428	98.72%		98.93%		
YMMM	CSN/A330		359	98.05%		98.05%			442	98.42%		98.64%		
RPHI	CSN/A332								241	92.68%	94.27%	93.15%	99.05%	89.83%
VYYF	CSN/A332		421	96.11%	97.15%	96.76%	97.81%	95.37%	604	93.97%	95.12%	94.65%	95.87%	92.94%
WAAF	CSN/A332		196	91.92%	93.65%	92.43%	94.48%	91.11%	694	94.03%	97.05%	95.39%	98.01%	96.99%
KZAK	CSN/A333		205	100.00%	100.00%	100.00%	100.00%	99.51%	229	98.69%	99.56%	98.69%	99.56%	96.51%

RPHI	CSN/A333		483	93.61%	93.89%	93.95%	94.12%	91.53%	951	93.38%	94.39%	93.88%	95.69%	91.06%
VYFF	CSN/A333		722	95.17%	95.01%	95.57%	95.89%	94.49%	750	95.91%	96.07%	96.29%	96.43%	94.40%
WAAF	CSN/A333		3820	96.06%	97.46%	96.65%	98.01%	95.18%	2569	91.16%	97.10%	93.54%	98.05%	96.81%
WAAF	CSN/A388		148	98.10%	98.80%	98.19%	99.00%	97.47%						
PAZA	CSN/B77W		207	100.00%	100.00%	100.00%	100.00%	99.03%	196	94.90%	95.41%	94.90%	95.41%	93.37%
YBBB	CSN/B787		1059	98.58%		98.58%			492	98.37%		98.58%		
NZZO	CSN/B789		134	97.01%	97.76%	97.76%	98.50%	97.01%						
RPHI	CSN/B789		506	95.92%	94.47%	96.34%	95.19%	94.07%	443	96.09%	93.86%	96.39%	94.72%	93.36%
PAZA	CXA/B788		163	98.16%	98.16%	98.16%	98.77%	98.77%	207	98.07%	98.55%	98.55%	98.55%	96.62%
KZAK	DAL/A332		139	100.00%	100.00%	100.00%	100.00%	96.40%	163	100.00%	99.39%	100.00%	100.00%	92.02%
PAZA	DAL/A332		325	98.77%	99.08%	99.69%	99.38%	98.15%	351	98.58%	98.86%	98.58%	99.15%	96.01%
KZAK	DAL/A339		2	100.00%	100.00%	100.00%	100.00%	100.00%	640	99.37%	99.69%	99.53%	100.00%	94.53%
PAZA	DAL/A359		2468	98.66%	98.82%	99.07%	99.07%	97.49%	2734	97.33%	97.92%	97.15%	97.70%	95.54%
KZAK	DAL/B739		251	99.60%	100.00%	100.00%	100.00%	98.41%	1142	99.47%	99.30%	99.56%	99.82%	94.40%
KZAK	DAL/B752		4409	95.67%	99.71%	96.69%	99.86%	87.62%	2911	95.12%	99.07%	96.53%	99.52%	85.30%
KZAK	DAL/B753		1335	99.25%	99.85%	99.55%	99.93%	97.68%	1881	98.83%	98.25%	99.26%	98.83%	96.23%
PAZA	DAL/B763		1462	99.18%	99.38%	99.45%	99.73%	97.74%	1168	98.89%	99.49%	98.46%	98.80%	93.92%
WSJC	DAL/B763		288	98.55%	98.15%	98.85%	99.36%	95.83%	175	99.72%	100.00%	99.91%	100.00%	98.98%
PAZA	DAL/B77L		556	99.82%	100.00%	99.82%	100.00%	98.02%	672	98.96%	99.26%	98.66%	98.96%	97.62%
RJJJ	DAL/B77L		236	98.73%	98.73%	98.73%	99.15%	99.15%	256	100.00%	100.00%	99.61%	99.61%	98.83%
WMFC	DLH/A388		199	99.62%		99.84%			191	98.19%		98.41%		
WMFC	ETD/A332		293	97.82%		98.42%			412	95.69%		97.12%		
WMFC	ETD/B789		420	97.54%		98.81%			627	97.23%		98.72%		
RPHI	EVA/A333		176	100.00%	100.00%	100.00%	100.00%	96.66%	235	98.39%	100.00%	98.44%	100.00%	96.81%
PAZA	EVA/B77L		913	99.45%	99.34%	99.67%	99.78%	99.01%	1189	96.89%	97.31%	97.14%	98.91%	94.53%
PAZA	EVA/B77W		4534	99.60%	99.27%	99.80%	99.80%	99.21%	4096	97.14%	97.46%	97.58%	98.36%	95.17%
PAZA	FDX/B77L		1707	99.24%	99.24%	99.47%	99.47%	96.90%	2361	96.48%	97.37%	97.33%	98.39%	93.90%
VYFF	FDX/B77L		394	96.99%	96.67%	97.42%	97.59%	94.21%	324	96.23%	97.35%	97.07%	98.56%	94.32%
WMFC	FDX/B77L		68	99.42%		100.00%			107	87.85%		91.09%		
WSJC	FDX/B77L								166	94.95%	95.25%	96.99%	96.92%	92.47%
KZAK	FDX/MD11		2031	98.38%	99.75%	98.92%	99.90%	96.36%	1532	98.96%	99.54%	99.09%	99.67%	95.63%
PAZA	FDX/MD11		771	98.44%	99.74%	98.57%	99.74%	95.72%	844	99.64%	100.00%	99.88%	100.00%	95.02%
VYFF	FIN/A359		336	82.48%	83.91%	83.53%	86.95%	77.92%	698	81.81%	84.10%	83.81%	87.68%	79.23%
WMFC	FIN/A359		298	94.81%		95.41%			224	97.83%		98.33%		
WAAF	GCR/A332		239	99.71%	99.89%	99.80%	100.00%	97.76%	159	96.41%	100.00%	96.47%	100.00%	96.24%
WAAF	GCR/A333		135	95.60%	100.00%	95.85%	100.00%	92.66%						
RPHI	GIA/A333		354	93.66%	99.72%	93.77%	99.72%	90.96%	526	98.17%	100.00%	98.26%	100.00%	95.34%
WAAF	GIA/A333		803	97.43%	100.00%	97.51%	100.00%	96.39%	582	97.38%	99.87%	97.84%	100.00%	96.80%
RPHI	GIA/B77W		256	97.67%	100.00%	97.83%	100.00%	93.36%	239	100.00%	100.00%	100.00%	100.00%	99.30%
PAZA	GTI/B744		1714	98.48%	99.47%	99.07%	99.88%	93.76%	1940	99.12%	99.48%	98.45%	98.92%	92.16%
VYFF	GTI/B744								129	96.85%	97.76%	97.84%	99.30%	93.99%
KZAK	GTI/BLCF		267	98.88%	100.00%	99.25%	100.00%	95.51%	286	97.90%	100.00%	98.25%	100.00%	93.36%
PAZA	GTI/BLCF		399	99.00%	99.50%	99.25%	99.50%	94.99%	453	98.68%	99.34%	97.79%	98.68%	92.27%
RJJJ	GTI/BLCF		150	100.00%	100.00%	100.00%	100.00%	98.67%	142	100.00%	100.00%	98.59%	99.30%	97.89%
VYFF	HDA/A333		135	100.00%	99.41%	100.00%	99.96%	96.83%	103	97.91%	99.60%	98.75%	99.90%	94.55%

WSJC	HVN/B789		449	98.40%	98.01%	99.13%	98.82%	98.83%	980	98.65%	98.27%	99.32%	99.10%	98.16%
VYFF	JAI/A333		149	97.08%	97.26%	98.84%	98.32%	94.63%						
WSJC	JST/B788		370	99.45%	99.13%	99.79%	99.53%	99.15%	555	98.26%	97.61%	99.28%	98.38%	98.74%
WSJC	KAL/A333		124	97.33%	97.58%	98.45%	98.22%	95.51%	204	97.90%	96.96%	98.72%	99.30%	93.63%
PAZA	KAL/B748		1377	98.26%	98.11%	98.55%	98.18%	99.20%	1420	96.90%	97.32%	97.04%	97.25%	95.21%
VYFF	KAL/B772		135	97.53%	97.85%	98.04%	98.03%	96.03%	133	100.00%	100.00%	100.00%	100.00%	96.99%
WSJC	KAL/B773		162	97.00%	97.02%	97.50%	97.33%	99.45%	245	100.00%	99.62%	100.00%	99.94%	98.90%
KZAK	KAL/B77L		292	99.32%	98.29%	99.66%	98.97%	99.66%	372	99.46%	94.09%	99.46%	97.58%	90.86%
KZAK	KAL/B77W		4226	99.79%	99.17%	99.88%	99.86%	99.48%	3600	99.75%	97.42%	99.86%	98.97%	95.00%
WSJC	KAL/B77W		206	98.57%	97.30%	98.92%	98.38%	98.93%	389	98.55%	97.62%	99.01%	98.18%	98.59%
PAZA	KAL/B789		723	97.79%	97.65%	98.34%	98.06%	98.62%	1002	93.81%	94.51%	93.41%	94.31%	94.61%
RJJJ	KAL/B789		143	97.20%	98.60%	98.60%	98.60%	98.60%	288	99.31%	99.65%	99.31%	99.65%	99.65%
VOMM	KLM/B772		302	98.72%	98.31%	98.84%	99.12%	97.68%	103	98.98%	100.00%	100.00%	100.00%	97.94%
WMFC	KLM/B772		163	99.22%		99.59%			170	97.50%		98.82%		
WMFC	KLM/B77W		469	97.27%		98.40%			597	98.76%		99.57%		
VYFF	KQA/B788		121	99.92%	99.40%	100.00%	100.00%	99.04%	158	98.35%	99.22%	98.56%	99.72%	95.31%
WMFC	LOT/B788		83	98.80%		99.29%			190	98.47%		98.79%		
VOMM	MAS/A332		244	98.30%	98.35%	98.92%	98.89%	98.71%	227	98.77%	99.41%	98.89%	99.60%	98.05%
WAAF	MAS/A332		394	99.26%	99.92%	99.29%	100.00%	99.25%	225	98.55%	99.59%	98.66%	99.70%	98.75%
WSJC	MAS/A332		221	98.50%	98.32%	98.65%	98.46%	97.84%	315	97.67%	98.21%	98.10%	98.30%	95.56%
RPHI	MAS/A333								142	98.62%	100.00%	98.68%	100.00%	95.12%
WMFC	MAS/A333		375	98.06%		98.76%			455	98.66%		99.43%		
WMFC	MAS/A359		550	98.55%		99.50%			915	98.13%		98.88%		
WSJC	MAS/A359								289	98.44%	98.34%	99.27%	98.79%	98.12%
VYFF	MAS/B738		460	98.04%	98.84%	98.38%	99.16%	96.39%	557	99.31%	99.86%	99.92%	100.00%	97.40%
WMFC	MAS/B738		753	97.14%		98.13%			1257	93.08%		95.78%		
VOMM	NAX/B788		114	98.38%	98.30%	98.58%	99.80%	97.59%						
PAZA	OAE/B763		271	98.89%	99.26%	99.63%	100.00%	95.94%	129	96.90%	98.45%	94.57%	95.35%	94.57%
VOMM	OMA/A332		369	98.46%	100.00%	98.92%	100.00%	95.12%	412	98.35%	99.79%	98.46%	99.92%	96.36%
VYFF	OMA/A332		139	99.07%	100.00%	99.48%	100.00%	96.04%	152	96.05%	100.00%	96.91%	100.00%	92.11%
WMFC	OMA/A332		135	99.37%		100.00%			209	97.09%		98.30%		
KZAK	PAC/B744		653	98.93%	99.69%	99.08%	99.85%	96.02%	703	99.15%	99.43%	99.43%	99.57%	94.31%
PAZA	PAC/B744		999	99.00%	99.60%	99.50%	99.80%	95.80%	977	98.77%	98.98%	98.26%	98.77%	92.84%
RJJJ	PAC/B744		218	100.00%	100.00%	98.62%	99.54%	97.25%	221	100.00%	100.00%	100.00%	100.00%	97.74%
PAZA	PAC/B748		747	99.06%	99.60%	99.20%	99.60%	97.32%	695	98.56%	98.85%	98.56%	98.99%	95.25%
KZAK	PACB763		0						285	97.89%	98.95%	98.25%	99.30%	91.58%
RJJJ	PAL/A21N		8	100.00%	100.00%	100.00%	100.00%	100.00%	105	96.19%	96.19%	96.19%	97.14%	96.19%
RPHI	PAL/A21N		108	92.85%	97.72%	93.06%	98.24%	89.12%	168	95.50%	99.04%	96.68%	99.27%	88.24%
WAAF	PAL/A21N		997	96.06%	96.65%	96.87%	98.29%	93.48%	577	94.89%	98.01%	95.54%	98.67%	92.20%
KZAK	PAL/A333		792	97.98%	98.61%	98.48%	98.74%	96.97%	827	99.15%	99.52%	99.64%	99.52%	95.28%
RJJJ	PAL/A333		188	98.94%	99.47%	98.40%	98.94%	97.87%	187	99.47%	100.00%	98.93%	98.93%	97.33%
RPHI	PAL/A333		213	91.33%	97.19%	91.84%	97.30%	88.30%	383	91.08%	97.60%	91.30%	98.55%	88.51%
VYFF	PAL/A333		1076	95.96%	96.78%	96.39%	97.10%	93.77%	1197	95.73%	95.56%	96.16%	96.71%	94.40%
WAAF	PAL/A333		465	92.74%	98.60%	92.93%	98.79%	92.31%	534	93.73%	98.34%	94.22%	98.48%	93.49%
WSJC	PAL/A333		382	96.64%	96.57%	96.70%	96.84%	94.59%	315	99.06%	99.09%	99.10%	99.17%	96.03%

PAZA	PAL/A359		213	97.65%	99.06%	98.12%	99.53%	92.49%	319	98.75%	99.37%	99.06%	99.37%	96.87%
RPHI	PAL/A359								118	93.53%	92.93%	93.95%	93.36%	90.68%
PAZA	PAL/B77W		977	99.49%	99.80%	99.80%	99.80%	98.36%	437	98.86%	98.86%	98.86%	99.54%	95.88%
RJJJ	QFA/A332		114	98.25%	99.12%	98.25%	100.00%	99.12%	116	100.00%	100.00%	100.00%	100.00%	99.14%
RPHI	QFA/A332		129	96.34%	100.00%	96.43%	100.00%	96.12%	328	98.19%	100.00%	98.21%	100.00%	96.49%
WAAF	QFA/A332		1418	97.83%	98.70%	98.73%	98.88%	96.47%	1023	97.80%	99.04%	98.39%	99.27%	95.94%
NFFF	QFA/A333								135	97.78%	98.51%	98.52%	98.51%	97.03%
RJJJ	QFA/A333		305	99.34%	99.34%	99.02%	99.34%	98.03%	407	98.03%	98.28%	97.54%	98.77%	95.09%
WAAF	QFA/A333		1642	98.55%	98.80%	98.83%	98.90%	97.02%	1295	98.85%	99.31%	99.02%	99.35%	96.45%
WSJC	QFA/A333		188	97.78%	98.92%	98.55%	99.57%	90.69%	353	97.01%	97.99%	97.57%	99.31%	91.22%
WAAF	QFA/A388		325	98.81%	100.00%	98.82%	100.00%	97.78%	143	97.99%	100.00%	98.02%	100.00%	97.46%
KZAK	QFA/B744		3413	98.39%	98.80%	98.89%	99.03%	97.66%	2412	98.80%	99.00%	99.25%	99.13%	97.64%
NFFF	QFA/B744		719	99.03%	98.88%	99.30%	99.02%	99.16%	377	98.14%	98.14%	99.47%	98.40%	98.67%
RJJJ	QFA/B744		192	98.96%	98.96%	98.44%	98.96%	98.96%	185	100.00%	100.00%	99.46%	99.46%	98.38%
YMMM	QFA/B744		618	96.93%		98.06%			751	98.27%		98.80%		
WMFC	QTR/A332		121	99.21%		99.80%			207	93.56%		96.07%		
WMFC	QTR/A346		113	97.18%		98.61%								
WMFC	QTR/A359		433	97.27%		98.61%			1032	97.58%		98.52%		
WMFC	QTR/A35K		340	97.16%		98.18%			912	97.70%		98.81%		
YBBB	QTR/B772		102	94.12%		96.08%			157	96.18%		98.73%		
YMMM	QTR/B772		682	95.01%		96.19%			734	95.50%		97.55%		
VOMM	QTR/B77L		302	98.41%	98.41%	98.92%	99.08%	96.85%	694	97.61%	97.99%	98.39%	98.62%	96.69%
WMFC	QTR/B77L		28	100.00%		100.00%			151	92.12%		93.47%		
VOMM	QTR/B77W		3009	97.55%	98.32%	98.44%	98.93%	97.27%	3806	97.16%	97.64%	98.08%	98.61%	96.48%
VYYF	QTR/B77W		3390	98.56%	98.73%	98.86%	99.23%	97.43%	3752	98.23%	98.76%	98.77%	99.08%	97.04%
WMFC	QTR/B77W		1006	95.56%		97.12%			1762	95.79%		97.79%		
WSJC	RBA/B788		664	99.00%	98.73%	99.38%	98.99%	98.95%	709	98.55%	97.88%	99.65%	98.60%	99.55%
KZAK	RCH/C17		0						1165	98.71%	99.83%	98.88%	100.00%	95.54%
NZZO	RCH/C17		185	98.92%	100.00%	98.92%	100.00%	93.51%	114	100.00%	100.00%	98.25%	99.12%	91.23%
RJJJ	RCH/C17		106	99.06%	99.06%	98.11%	99.06%	99.06%	71	95.77%	95.77%	94.37%	95.77%	97.18%
KZAK	RCH/C5		0						134	98.51%	100.00%	98.51%	100.00%	93.28%
KZAK	RCH/K35R		213	99.06%	99.53%	99.06%	99.53%	93.43%	189	99.47%	100.00%	99.47%	100.00%	95.77%
KZAK	ROU/B763		134	100.00%	99.25%	100.00%	99.25%	98.51%	279	98.21%	98.21%	98.92%	99.28%	93.55%
WSJC	SIA/A333		941	98.33%	98.19%	99.42%	98.54%	98.09%	1146	99.01%	99.08%	99.55%	99.28%	97.56%
RPHI	SIA/A359		410	95.63%	95.75%	95.78%	96.10%	93.86%	845	96.64%	96.58%	96.82%	97.08%	95.50%
VYYF	SIA/A359		201	89.24%	90.61%	90.58%	91.80%	87.56%	862	90.49%	90.96%	90.86%	92.79%	89.30%
WAAF	SIA/A359		1307	95.65%	96.98%	96.20%	97.71%	94.99%	987	96.09%	96.62%	96.44%	97.50%	95.00%
WMFC	SIA/A359		1246	96.55%		97.59%			2250	96.37%		97.02%		
WSJC	SIA/A359		1899	96.38%	96.65%	97.17%	97.42%	95.79%	3562	98.27%	98.29%	98.90%	98.55%	98.09%
VYYF	SIA/A388		448	93.50%	94.20%	94.36%	95.76%	92.78%	704	94.53%	95.88%	95.38%	97.56%	93.32%
WAAF	SIA/A388		240	95.60%	96.79%	96.44%	97.79%	94.31%	160	97.06%	97.77%	97.13%	97.90%	96.41%
WMFC	SIA/A388		1083	96.63%		97.60%			1238	95.87%		96.74%		
WSJC	SIA/A388		329	97.02%	97.07%	97.27%	97.58%	95.99%	499	99.63%	100.00%	99.68%	100.00%	98.80%
PAZA	SIA/B744		168	98.21%	100.00%	98.81%	100.00%	97.02%	150	99.33%	100.00%	100.00%	100.00%	95.33%
VYYF	SIA/B744								145	92.55%	92.77%	93.80%	93.97%	90.19%

WMFC	SIA/B744		151	98.23%		99.34%			166	94.75%		95.98%		
YMMM	SIA/B744		115	99.13%		99.13%			175	98.86%		98.86%		
VOMM	SIA/B773		302	99.98%	100.00%	100.00%	100.00%	98.73%	375	98.56%	99.29%	98.71%	99.71%	97.50%
RJJJ	SIA/B77W		897	98.44%	99.00%	98.77%	99.22%	99.55%	785	99.36%	99.62%	99.36%	99.62%	99.36%
VOMM	SIA/B77W		3328	99.07%	98.86%	99.56%	99.27%	99.13%	1862	98.31%	98.25%	99.14%	98.69%	98.68%
VYYF	SIA/B77W		183	98.95%	99.06%	99.03%	99.22%	98.36%	505	98.40%	98.07%	98.52%	98.42%	98.28%
WSJC	SIA/B77W		1676	98.12%	96.18%	98.87%	97.66%	98.81%	2159	99.07%	97.81%	99.65%	98.85%	98.43%
RPHI	SIA/B78X		339	97.98%	98.03%	98.53%	98.03%	95.28%	641	95.82%	94.49%	95.90%	95.18%	91.89%
VYYF	SIA/B78X		185	100.00%	100.00%	100.00%	100.00%	99.15%	198	96.01%	97.23%	97.08%	97.81%	94.32%
YMMM	SIA/B78X		196	99.49%		99.49%			313	98.72%		98.72%		
WSJC	SLK/B738		490	93.19%	93.98%	94.59%	94.55%	91.63%	808	93.66%	92.78%	95.42%	94.06%	95.92%
PAZA	SOO/B77L		336	98.81%	99.11%	99.11%	99.11%	97.92%	449	99.11%	99.33%	98.89%	99.11%	95.10%
VYYF	SVA/B772		108	98.28%	99.96%	98.44%	100.00%	98.22%						
WMFC	SVA/B789		334	98.68%		99.42%			334	95.31%		96.41%		
KZAK	SWA/B738		1301	97.92%	98.69%	98.46%	99.23%	94.08%	3458	98.21%	98.21%	98.55%	98.76%	95.29%
WSJC	TAX/A333								152	98.09%	98.71%	99.37%	99.47%	93.71%
WSJC	TGW/B788		267	99.13%	98.82%	99.79%	99.02%	100.00%	369	98.53%	98.16%	99.73%	98.50%	99.13%
WSJC	TGW/B789		344	99.07%	98.79%	99.89%	98.95%	99.90%	396	99.30%	98.32%	100.00%	99.07%	99.39%
WSJC	THA/B744		610	96.87%	97.39%	97.71%	98.18%	97.25%	737	97.05%	96.68%	97.69%	97.85%	98.03%
VOMM	THA/B772		942	98.82%	99.08%	99.32%	99.41%	98.78%	1018	98.45%	98.33%	98.94%	98.55%	99.31%
WSJC	THA/B772		184	99.23%	99.47%	99.57%	99.60%	94.84%	346	99.73%	98.24%	99.76%	99.43%	97.98%
WSJC	THA/B789		325	98.28%	96.00%	98.74%	98.05%	98.92%	443	99.83%	98.96%	99.98%	99.64%	99.10%
VOMM	THY/A333		568	99.56%	99.46%	100.00%	99.69%	98.24%	358	98.33%	97.86%	98.50%	99.28%	96.79%
VYYF	THY/A333		546	95.88%	97.92%	97.89%	98.58%	93.41%	1204	98.48%	99.11%	98.87%	99.37%	97.01%
WMFC	THY/A333		337	95.31%		96.83%			339	96.25%		96.63%		
WMFC	THY/B77W		363	97.25%		98.40%			562	97.36%		97.95%		
WAAF	UAE/A388		138	98.71%	100.00%	98.77%	100.00%	98.59%						
WSJC	UAE/B77W		227	97.28%	96.09%	97.93%	97.83%	97.94%						
KZAK	UAL/B737		1559	98.08%	99.04%	98.33%	99.42%	94.61%	1454	98.14%	99.38%	98.90%	99.66%	94.29%
RJJJ	UAL/B737		299	98.33%	98.66%	95.65%	96.99%	92.31%	296	99.32%	99.66%	98.65%	99.32%	96.28%
KZAK	UAL/B738		3337	97.99%	99.34%	98.53%	99.67%	94.61%	3374	97.78%	98.73%	98.52%	99.26%	93.42%
RJJJ	UAL/B738		724	98.62%	99.45%	97.65%	98.07%	95.44%	608	99.51%	99.84%	98.36%	99.01%	96.55%
KZAK	UAL/B752		3350	99.01%	99.40%	99.31%	99.70%	97.07%	2170	99.22%	99.03%	99.40%	99.45%	93.96%
PAZA	UAL/B772		3010	97.44%	97.74%	98.21%	98.11%	95.98%	3305	96.94%	97.85%	96.73%	97.70%	93.62%
RJJJ	UAL/B772		1267	98.66%	98.82%	98.82%	99.45%	99.61%	1548	98.90%	99.16%	98.77%	99.42%	98.58%
PAZA	UAL/B77W		2166	98.75%	99.49%	99.22%	99.72%	95.48%	1553	97.62%	98.52%	98.20%	98.71%	95.17%
PAZA	UAL/B788		1154	98.44%	98.87%	98.96%	98.96%	98.35%	992	98.39%	99.19%	98.49%	98.79%	97.08%
RPHI	UAL/B789		196	98.58%	99.27%	98.66%	99.38%	95.56%	234	100.00%	100.00%	100.00%	100.00%	98.66%
KZAK	UPS/B744		1003	98.50%	99.50%	98.80%	99.60%	95.71%	1188	98.74%	98.91%	99.07%	98.99%	96.21%
PAZA	UPS/B744		391	97.19%	98.98%	97.44%	99.23%	94.88%	838	96.90%	97.61%	96.30%	96.78%	94.63%
KZAK	UPS/B748		700	99.29%	99.43%	99.57%	99.57%	98.29%	651	99.69%	99.39%	100.00%	99.54%	94.93%
VYYF	UPS/B748		228	100.00%	100.00%	100.00%	100.00%	97.48%	441	96.43%	96.27%	96.51%	96.64%	93.59%
YBBB	UPS/B748		155	96.13%		96.77%			188	97.87%		97.87%		
KZAK	UPS/B763		381	98.16%	99.21%	98.95%	99.21%	95.54%	380	98.42%	98.42%	98.42%	98.95%	96.05%
PAZA	UPS/B763		375	99.73%	99.73%	99.73%	100.00%	97.60%	799	95.49%	98.75%	98.50%	98.62%	91.86%

RJJJ	UPS/B763		117	99.15%	99.15%	98.29%	98.29%	98.29%	133	98.50%	100.00%	97.74%	98.50%	96.24%
KZAK	UPS/MD11		840	99.17%	99.52%	99.29%	99.52%	98.21%	688	99.27%	99.27%	99.27%	99.56%	94.91%
PAZA	UPS/MD11		254	98.82%	99.21%	98.82%	99.21%	98.82%	115	99.13%	99.13%	99.13%	99.13%	95.65%
VYYF	UPS/MD11		168	97.90%	98.27%	98.01%	98.44%	97.92%						
KZAK	VJT/GLEX		70	100.00%	98.57%	100.00%	100.00%	97.14%	103	98.06%	100.00%	98.06%	100.00%	94.17%
RPHI	VOZ/A332								208	98.20%	99.81%	98.50%	99.93%	96.05%
WAAF	VOZ/A332		788	97.13%	97.45%	98.20%	98.16%	97.34%	565	97.86%	98.32%	98.29%	99.34%	96.37%
VOMM	XAX/A333		528	97.28%	98.47%	98.70%	98.65%	97.20%	294	97.52%	98.25%	97.76%	99.26%	96.15%
VYYF	XAX/A333		374	98.49%	99.54%	99.24%	99.79%	95.03%	297	95.29%	98.15%	97.14%	99.43%	91.29%
ZLLL	OP2/T1		125	100.00%	99.20%	100.00%	100.00%	100.00%	106	98.11%	94.33%	100.00%	95.28%	100.00%
ZLLL	OP3/T1		308	98.70%	96.42%	98.70%	97.07%	99.02%	294	98.29%	96.25%	98.29%	97.95%	98.63%
ZLLL	OP4/T2								110	97.27%	98.18%	97.27%	98.18%	93.63%

Issue code	Explanation	Recommendation(s)
(*1) Delayed reports around VHF/SAT transitions.	This note is used when ADS-C or CPDLC reports are observed with delays when there is mixed media usage in the sequence of reports before, at or after the delayed reports	- Review "NAT OPS Bulletin 2019_003: Data Link Performance Improvement Options" and recommended solutions/actions (Problem/Issue #2).
(*2) Delayed reports via HF media.	This note is used when delayed ADS-C or CPDLC reports are observed to be delivered via HF data link (HF DL) or near reports delivered via HF DL. Check whether this appears to be a SATCOM failure with one flight or a period during the flight, or more continuous, intermittent use of HF DL. Potential issue with aircraft media priority settings.	- Review "NAT OPS Bulletin 2019_003: Data Link Performance Improvement Options" and recommended solutions/actions (Problem/Issue #1, #4, #9). - Review all Service Information Letters (SILs) and Software Bulletins (SBs) released from Satcom avionics manufacturers, particularly advice on Operator Requirement Table (ORT) set-up. - Operator should be aware that HF DL DOES NOT meet the RCP/RSP criteria for PBCS operations.
(*3) Delayed reports due to Inmarsat satellite to satellite transition (aircraft) or satellite problems (network).	This note is used when ADS-C or CPDLC reports are observed with delays and its noticed that there is a switch sequence between different or same Inmarsat satellite paths (Ex.: XXF/XXH/XXF/XXH). One known area where this occurs in the NAT is at 30W longitude. If multiple aircraft observed with same issue around same time, may be a network-related issue and ATSP may want to report to FANS-CRA/DLMA.	- Review all Service Information Letters (SILs) and Software Bulletins (SBs) released from Satcom avionics manufacturers, particularly advice on Operator Requirement Table (ORT) set-up. - Check with contracted Data Link Service Provider and Satellite Service Provider for possible coverage problems.
(*4) Delayed reports due to Iridium avionics (aircraft) or satellite problems (network).	This note is used when ADS-C or CPDLC reports are observed with delays via Iridium satellite paths (IG1, IGW1). If multiple aircraft observed with same issue around same time, may be a network-related issue and ATSP may want to report to FANS-CRA/DLMA.	- Check for SATCOM radio/unit problems.
(*5) Reported only on VHF and/or HF.	This note is used when delayed ADS-C reports or CPDLC messages are observed via VHF and/or HF only (no SATCOM). This might indicate that SATCOM unit is defective or became unavailable during flight. Check if this issue is observed during one flight or part of one flight only, or whether it is an ongoing problem. If not observed on subsequent flights, the issue may have been addressed.	- Operator should not declare PBCS if SATCOM not available. - Check for SATCOM radio/unit problems. - Flight crew should inform ATC if SATCOM becomes unavailable during flight.
(*6) Poor ACP due to high PORT.	This note is used when its found that the delayed CPDLC transactions are caused by high pilot operational response time (PORT).	- Review "NAT OPS Bulletin 2019_003: Data Link Performance Improvement Options" and recommended solutions/actions (Problem/Issue #6). - Review procedures to reduce pilot operational response time (PORT) to CPDLC messages.
(*7) Aircraft data link connection problems detected.	This note is used when we can identify that delays happened on periods that disconnections and reconnections have been performed. Check whether this appears to be a problem with one flight or a period during one flight, or whether it is an ongoing problem. If problem is not observed on later flights, the issue may have been addressed.	- Review "NAT OPS Bulletin 2019_003: Data Link Performance Improvement Options" and recommended solutions/actions (Problem/Issue #8 unknown cause).
(*8) Delays related to specific VHF station.	This note is used when the delayed ADS-C reports and CPDLC messages are observed via a specific VHF ground station. If multiple aircraft observed with same issue, ATSP may want to report to FANS-CRA/DLMA as a VHF station issue.	- Review "NAT OPS Bulletin 2019_003: Data Link Performance Improvement Options" and recommended solutions/actions (Problem/Issue #2).
(*9) FMS time before ATC uplink time. Clock setting not synchronized with GPS.	This note is used when its found that the FMS response time is earlier than the ATC uplink time. According to aircraft manufacturers this happens when clock is set manually and not being set by synchronization with GPS source.	- Review procedures for clock settings to be set to GPS clock instead of manual set of clock.



PBCS ATSP Non-compliance Report Form							
Report Date:			8/2/2020				
Period of observed non-compliance:							
Reporting Air Traffic Service Provider (ATSP):							
Contact email address(es) at Reporting ATSP:							
Reporting to Regional Monitoring Agency (RMA):			NAT CMA				
ICAO CODE:							
Airline Operator:							
State of Operator/Registry:							
PBCS Data							
FIR	4-letter ICAO Aircraft Type	Registration	ADS-C downlink Message Counts	95% RSP 180 Benchmark	CPDLC Transaction Counts	95% RCP 240 benchmark	Issue code
				ASP		ACP	
				<=90 sec		<=180 sec	
KZNY	B772	Reg 1	410	93.41%	25	96.00%	(*1)(*3)
KZNY	B772	Reg 2	290	94.48%	21	95.24%	(*1)

PBCS ATSP Non-compliance Report Form							
Report Date:			8/2/2020				
Period of observed non-compliance:							
Reporting Air Traffic Service Provider (ATSP):							
Contact email address(es) at Reporting ATSP:							
Reporting to Regional Monitoring Agency (RMA):			NAT CMA				
ICAO CODE:							
Airline Operator:							
State of Operator/Registry:							
PBCS Data							
FIR	4-letter ICAO Aircraft Type	Registration	ADS-C downlink Message Counts	95% RSP 180 Benchmark	CPDLC Transaction Count	95% RCP 240 benchmark	Issue code
				ASP		ACP	
				<=90 sec		<=180 sec	
KZNY	B772	Reg 1	1,174	94.46%	88	95.45%	(*1)(*3)