



International Civil Aviation Organization

The Thirteenth Meeting of the FANS Implementation Team for the Bay of Bengal (FIT-BOB/13) and the Fifth Meeting of the Bay of Bengal Reduced Horizontal Separation Implementation Task Force (BOB-RHS/TF/5)

Bangkok, Thailand, 07 – 11 February 2011

Agenda Item 6: Future Direction and Arrangements

**PROPOSED CHANGES TO COMMUNICATIONS PROCEDURES
– B465 VIENTIANE/YANGON FIR**

(Presented by Myanmar)

SUMMARY

The purpose of this information paper is to advise the meeting of proposed enhancements to the communications procedures using CPDLC for suitably equipped aircraft crossing the Vientiane/Yangon FIR boundary on B465.

1. INTRODUCTION

1.1 Due to the limited VHF coverage near the FIR boundary between Vientiane and Yangon on ATS route B465, aircraft are required to communicate on HF frequencies in this area. During night-time hours there have been occasions where two-way communications using HF frequencies has been unsatisfactory.

2. DISCUSSION

2.1 The meeting is advised that Myanmar has been undergoing successful operational trials on their ADS-C/CPDLC equipment over several months with cooperation from international air carriers. In early December, a further test of the data-link equipment was performed using the Boeing Company data-link 'test bench'. The Test Report from Boeing indicated that this initiative was also highly successful.

2.2 In an attempt to improve communications on this ATS route, which links Hong Kong and other southeast airports of China with the Middle East, Myanmar is in the process of exploring opportunities whereby CPDLC will be the primary means of communication for suitably equipped aircraft, especially during night-time periods where HF is unreliable, until aircraft are within range of VHF communications.

2.3 Myanmar has already discussed this issue with IATA and will coordinate procedures with Lao PDR for their agreement and changes to the Letter of Agreement between both States. Collected data over a 2 week period specifically for ATS route B465 is supplied for the information of the meeting at Attachment to this information paper.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the communications issues on B465 near the Vientiane/Yangon FIR boundary; and,
- b) note the initiative by Myanmar in overcoming unsatisfactory HF communications, especially during night-time hours by using CPDLC as the primary means on B465 where other communications media are unsatisfactory.

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ADS/CPDLC CONNECTION RECORD
(Yangon Area Control Centre)

Airway : B465

Date: 18/12/2010

No	Call sign	Type	Dep/Dest	FL	Entry pt	Mid pt	Exit pt	ADS	CPDLC
1.	HDA192	A333	VHHH/VGZR	380	AKSAG:1150	MDY:1220	APAGO:1252	OK	OK
2.	CPA685	A333	VHHH/VABB	380	AKSAG:1415	MDY:1451	APAGO:1517	OK	OK
3.	CPA067	B744	VHHH/VIDP	340	AKSAG:1457	MDY:1530	APAGO1550	OK	OK
4.	CPA695	A343	VHHH/VIDP	340	AKSAG:1529	MDY:1557	APAGO:1631	-	-
5.	CPA007	B744	VHHH/VIDP	320	AKSAG:1630	MDY:1701	APAGO:1729	OK	OK
6.	HVN545	B772	VVNB/EDDF	300	AKSAG:1804	MDY:1838	APAGO:1903	OK	OK
7.	HVN535	B772	VVNB/LFPG	340	AKSAG:1801	MDY:1837	APAGO:1902	OK	OK
8.	CPA745	A333	VHHH/OMDB	340	AKSAG:1926	MDY:1956	APAGO:2019	OK	OK
9.	QTR813	A332	VHHH/OTBD	360	AKSAG:1901	MDY:1938	APAGO:1954	-	-
10.	UAE381	B77W	VHHH/OMDB	320	AKSAG:1910	MDY:1945	APAGO:2003	OK	OK
11.	CAP039	B744	VHHH/OMDB	320	AKSAG:2240	MDY:2313	APAGO:2330	OK	OK
12.	DRK143	B744	VHHH/VIDP	300	AKSAG:2249	MDY:2322	APAGO:2349	OK	OK
13.	QTR6883	B77L	VHHH/OTBD	300	AKSAG:0213	MDY:0247	APAGO:0302	-	-
14.	CPA017	B744	VHHH/VIDP	340	AKSAG:0436	MDY:0507	APAGO:0535	OK	OK
15.	HVN525	B772	VVNB/UDD	300	AKSAG:0444	MDY:0516	APAGO:0541	OK	OK
16.	CPA049	B744	VHHH/VGZR	320	AKSAG:0748	MDY:0818	APAGO:0850	OK	OK
17.	UAE9863	B77L	VHHH/OMDB	320	AKSAG:0906	MDY:0936	APAGO:0959	-	-
18.	HDA191	A333	VNKT/VHHH	330	APAGO:1853	MDY:1913	AKSAG:1943	OK	OK
19.	CPA694	A343	VIDP/VHHH	350	APAGO:1908	MDY:1930	AKSAG:2000	-	-
20.	CPA048	B744	VGZR/VVNB	310	APAGO:1143	MDY:1206	AKSAG:1234	OK	OK

Data link log-on: 75%

ADS/CPDLC CONNECTION RECORD
(Yangon Area Control Centre)

Airway : B465

Date: 19/12/2010

No	Call sign	Type	Dep/Dest	FL	Entry pt	Mid pt	Exit pt	ADS	CPDLC
1.	HVN524	B772	UDD/VVNB	390	APAGO:0025	MDY:0048	AKSAG:0118	OK	OK
2.	HVN534	B772	LFPG/VVNB	390	APAGO:0005	MDY:0027	AKSAG:0057	OK	OK
3.	AFL541	A333	UUEE/VVNB	350	APAGO:0024	MDY:0047	AKSAG:0117	OK	OK
4.	LOT85	B763	EPWA/VVNB	390	APAGO:0611	MDY:0634	AKSAG:0703	-	-
5.	HDA191	A333	VNKT/VHHH	370	APAGO:1855	MDY:1919	AKSAG:1949	OK	OK
6.	HVN544	B772	EDDF/VVNB	390	APAGO:2233	MDY:2256	AKSAG:2316	-	-
7.	HVN534	B772	LFPG/VVNB	390	APAGO:2316	MDY:2339	AKSAG:0007	-	-
8.	HDA192	A333	VHHH/VGZR	380	AKSAG:1153	MDY:1228	APAGO:1246	OK	OK
9.	CPA695	A343	VHHH/VIDP	340	AKSAG:1524	MDY:1557	APAGO:1623	-	-
10.	CPA037	B744	VHHH/VIDP	320	AKSAG:1554	MDY:1627	APAGO:1651	OK	OK
11.	HVN535	B772	VHHH/LFPG	320	AKSAG:1748	MDY:1821	APAGO:1846	-	-
12.	LOT86	B763	VVNB/EPWA	320	AKSAG:1803	MDY:1838	APAGO:1906	-	-
13.	CPA001	B744	VHHH/OMDB	340	AKSAG:1841	MDY:1913	APAGO:1940	OK	OK
14.	UAE381	B77W	VHHH/OMDB	320	AKSAG:2053	MDY:2127	APAGO:2153	OK	OK
15.	CPA745	A333	VHHH/OMDB	360	AKSAG:1950	MDY:2026	APAGO:2054	-	-
16.	QTR813	A333	VHHH/OTBD	360	AKSAG:1858	MDY:1936	APAGO:2003	-	-
17.	CPA019	B744	VHHH/OMDB	280	AKSAG:0203	MDY:0234	APAGO:0300	-	-
18.	SMJ673	MD11	VHHH/OOMS	300	AKSAG:0211	MDY:0239	APAGO:0308	-	-
19.	CPA065	B744	VHHH/OMDB	320	AKSAG:0320	MDY:0352	APAGO:0418	OK	OK
20.	CKS248	B744	VHHH/VIDP	340	AKSAG:0303	MDY:0328	APAGO:0350	-	-
21.	AFL542	A333	VVNB/VIDP	340	AKSAG:0455	MDY:0530	APAGO:0556	-	-

Data link log-on: 43%

ADS/CPDLC CONNECTION RECORD
(Yangon Area Control Centre)

Airway : B465

Date: 20/12/2010

No	Call sign	Type	Dep/Dest	FL	Entry pt	Mid pt	Exit pt	ADS	CPDLC
1.	UAE9837	B77L	VHHH/OMDB	320	AKSAG:0118	MDY:0152	APAGO:0218	-	-
2.	CPA3239	B744	VHHH/OMDB	320	AKSAG:0327	MDY:0401	APAGO:0427	OK	OK
3.	CPA019	B744	VHHH/OMDB	320	AKSAG:0437	MDY:0509	APAGO:0537	OK	OK
4.	CPA017	B744	VHHH/VIDP	340	AKSAG:0413	MDY:0447	APAGO:0512	OK	OK
5.	MPH092	B744	VHHH/OMSJ	320	AKSAG:0811	MDY:0842	APAGO:0913	-	-
6.	HDA192	A333	VHHH/VGZR	380	AKSAG:1151	MDY:1231	APAGO:1300	-	-
7.	CPA695	A343	VHHH/VIDP	360	AKSAG:1549	MDY:1627	APAGO:1657	-	-
8.	UAE381	B77W	VHHH/OMDB	320	AKSAG:1848	MDY:1918	APAGO:1954	-	-
9.	HVN545	B772	VVNB/EDDF	320	AKSAG:1932	MDY:2006	APAGO:2033	-	-
10.	UAE9885	B744	VHHH/OMDB	300	AKSAG:2153	MDY:2228	APAGO:2300	OK	OK
11.	CPA039	B744	VHHH/OMDB	300	AKSAG:2220	MDY:2255	APAGO2322	-	-
12.	CPA694	A343	VIDP/VHHH	350	APAGO:1903	MDY:1924	AKSAG:1952	-	-
13.	HDA191	A333	VNKT/VHHH	330	APAGO:1856	MDY:1916	AKSAG:1945	-	-
14.	HVN534	B772	LFPG/VVNB	370	APAGO:2335	MDY:2357	AKSAG:0022	OK	OK
15.	QTR813	A333	VHHH/OTBD	360	AKSAG:1904	MDY:1940	APAGO:2013	-	-

Data link log-on: 34%

ADS/CPDLC CONNECTION RECORD
(Yangon Area Control Centre)

Airway : B465

Date: 21/12/2010

No	Call sign	Type	Dep/Dest	FL	Entry pt	Mid pt	Exit pt	ADS	CPDLC
1.	AFL541	A332	UUEE/VVNB	370	APAGO:0018	MDY:0040	AKSAG:0109	-	-
2.	CPA008	B744	VIDP/VHHH	390	APAGO:0335	MDY:0357	AKSAG:0423	OK	OK
3.	LOT85	B763	EPWA/VVNB	330	APAGO:0620	MDY:0643	AKSAG:0711	-	-
4.	CPA048	B744	VGZR/VVNB	310	APAGO:0844	MDY:0903	AKSAG:0931	-	-
5.	AFL542	A332	VVNB/UUEE	340	AKSAG:0437	MDY0514	APAGO:0543	OK	OK
6.	CPA049	B744	VHHH/VGZR	380	AKSAG:0417	MDY:0454	APAGO:0523	OK	OK
7.	QTR6881	B77L	VHHH/OTBD	300	AKSAG:0837	MDY:0911	APAGO:0937	-	-
8.	UAE9965	B77L	VHHH/OMDB	300	AKSAG:0940	MDY:1011	APAGO:1041	OK	OK
9.	CPA017	B744	VHHH/VABB	320	AKSAG:0952	MDY:1026	APAGO:1053	-	-
10.	CPA067	B744	VHHH/OMDB	320	AKSAG:1422	MDY:1457	APAGO:1532	OK	OK
11.	CPA695	A343	VHHH/VIDP	340	AKSAG:1551	MDY:1628	APAGO:1655	-	-
12.	QTR6883	B77L	VHHH/OTBD	300	AKSAG:1604	MDY:1645	APAGO:1710	-	-
13.	UAE9881	B744	VHHH/OMDB	320	AKSAG:1705	MDY:1740	APAGO:1807	OK	OK
14.	LOT86	B763	VVNB/EPWA	300	AKSAG:1811	MDY:1850	APAGO:1918	-	-
15.	HVN545	B772	VVNB/EDDF	340	AKSAG:1811	MDY:1843	APAGO:1919	-	-
16.	HVN535	B772	VVNB/LFPG	340	AKSAG:1758	MDY:1835	APAGO:1903	-	-
17.	CPA057	B744	VHHH/VIDP	300	AKSAG:1843	MDY:1919	APAGO:1947	OK	OK
18.	QTR813	A332	VHHH/OTBD	360	AKSAG:1915	MDY:1954	APAGO:2017	OK	OK
19.	UAE381	B77W	VHHH/OMDB	320	AKSAG:1911	MDY:1947	APAGO:2014	OK	OK
20.	CPA018	B744	VABB/VHHH	410	APAGO:1902	MDY:1925	AKSAG:1950	-	-
21.	CPA694	A343	VIDP/VHHH	390	APAGO:1931	MDY:1952	AKSAG:2019	-	-

Data link log-on: 43%

ADS/CPDLC CONNECTION RECORD
(Yangon Area Control Centre)

Airway : B465

Date: 22/12/2010

No	Call sign	Type	Dep/Dest	FL	Entry pt	Mid pt	Exit pt	ADS	CPDLC
1.	CKS246	B744	VHHH/OBBI	320	AKSAG:0024	MDY:0057	APAGO:0126	-	-
2.	AFL542	A332	VVNB/UUEE	340	AKSAG:0519	MDY:0550	APAGO:0633	-	-
3.	HVN525	B772	VVNB/UUDD	340	AKSAG:0444	MDY:0514	APAGO:0550	OK	OK
4.	HDA192	A333	VHHH/VGZR	380	AKSAG:1211	MDY:1248	APAGO:1316	-	-
5.	QTR6883	B77L	VHHH/OMDB	320	AKSAG:1235	MDY:1312	APAGO:1339	-	-
6.	CPA695	A343	VHHH/VIDP	340	AKSAG:1550	MDY:1614	APAGO:1656	-	-
7.	MPH092	B744	VHHH/OMSJ	320	AKSAG:1558	MDY:1628	APAGO:1702	OK	OK
8.	HVN535	B772	VVNB/LFPG	340	AKSAG:1841	MDY:1917	APAGO:1945	-	-
9.	QTR813	A332	VHHH/OTBD	360	AKSAG:1909	MDY:1945	APAGO:2013	-	-
10.	ETD948	A332	VHHH/OMAA	360	AKSAG/2010	MDY:2047	APAGO:2116	-	-
11.	AFL541	A332	UUEE/VVNB	370	APAGO:0107	MDY:0133	AKSAG:0200	-	-
12.	HVN544	B772	EDDF/VVNB	370	APAGO:0057	MDY:0118	AKSAG:0144	-	-
13.	CAP694	A343	VIDP/VHHH	350	APAGO:1856	MDY:1917	AKSAG:1945	-	-
14.	HDA191	A333	VNKT/VHHH	330	APAGO:1902	MDY:1922	AKSAG:1950	-	-
15.	HVN534	B772	LFPG/VVNB	390	APAGO:2232	MDY:2253	AKSAG:2320	-	-
16.	HVN544	B772	EDDF/VVNB	390	APAGO:2315	MDY:2336	AKSAG:0009	-	-
17.	HVN524	B772	UUDD/VVNB	390	APAGO:2347	MDY:0008	AKSAG:0036	-	-

Data link log-on: 12%

ADS/CPDLC CONNECTION RECORD
(Yangon Area Control Centre)

Airway : B465

Date: 23/12/2010

No	Call sign	Type	Dep/Dest	FL	Entry pt	Mid pt	Exit pt	ADS	CPDLC
1.	CPA058	B744	VIDP/VHHH	270	APAGO:0116	MDY:0138	AKSAG:0204	-	-
2.	N917R	GLEX	VABB/VLLB	290	APAGO:0744	MDY:0805	AKSAG:0837	-	-
3.	LOT85	B763	EPWA/VVNB	370	APAGO:0836	MDY:0856	AKSAG:0926	-	-
4.	QTR6881	B77L	VHHH/OTBD	320	AKSAG:0122	MDY:0158	APAGO:0221	-	-
5.	MPH090	B744	VHHH/OMSJ	320	AKSAG:0433	MDY:0509	APAGO:0526	-	-
6.	HDA192	A333	VHHH/VGZR	380	AKSAG:1213	MDY:1250	APAGO:1318	-	-
7.	CAP067	B744	VHHH/VIDP	320	AKSAG:1454	MDY:1528	APAGO:1556	-	-
8.	CPA695	A343	VHHH/VIDP	360	AKSAG:1559	MDY:1636	APAGO:1705	-	-
9.	LOT86	B763	VVNB/EPWA	300	AKSAG:1757	MDY:1834	APAGO:1902	-	-
10.	HVN545	B772	VVNB/EDDF	360	AKSAG:1815	MDY:1838	APAGO:1902	-	-
11.	QTR813	A332	VHHH/OTBD	380	AKSAG:1859	MDY:1947	APAGO:2016	-	-
12.	CPA048	B744	VGZR/VHHH	350	APAGO:1322	MDY:1342	AKSAG:1408	-	-
13.	CPA694	A343	VIDP/VHHH	370	APAGO:1846	MDY:1906	AKSAG:1934	-	-
14.	HDA191	A333	VNKT/VHHH	330	APAGO:1903	MDY:1924	AKSAG:1954	-	-

Data link log-on: 00%

ADS/CPDLC CONNECTION RECORD
(Yangon Area Control Centre)

Airway : B465

Date: 24/12/2010

No	Call sign	Type	Dep/Dest	FL	Entry pt	Mid pt	Exit pt	ADS	CPDLC
1.	CPA037	B744	VHHH/VIDP	320	AKSAG:0302	MDY:0338	APAGO:0353	-	-
2.	CPA037D	B744	VHHH/VIDP	320	AKSAG:0409	MDY:0443	APAGO:0511	-	-
3.	AFL542	A332	VVNB/UUEE	340	AKSAG:0436	MDY:0513	APAGO:0541	-	-
4.	MPH092	MD11	VHHH/OMSJ	300	AKSAG:0722	MDY:0757	APAGO:0824	-	-
5.	HDA192	A333	VHHH/VGZR	380	AKSAG:1239	MDY:1305	APAGO:1325	-	-
6.	QTR6881	B77L	VHHH/OTBD	300	AKSAG:1404	MDY:1442	APAGO:1508	OK	OK
7.	CPA695	A343	VHHH/VIDP	360	AKSAG:1613	MDY:1649	APAGO:1719	-	-
8.	HVN535	B77L	VVNB/VIDP	340	AKSAG:1818	MDY:1853	AKSAG:1921	-	-
9.	QTR813	A332	VHHH/OTBD	340	AKSAG:1913	MDY:1954	AKSAG:2022	-	-
10.	AFL541	A332	UUEE/VVNB	370	AKSAG:0019	MDY:0040	AKSAG:0112	-	-
11.	CPA694	A343	VIDP/VHHH	370	AKSAG:1901	MDY:1921	AKSAG:1949	-	-
12.	HDA191	A333	VNKT/VHHH	390	AKSAG:1911	MDY:1934	AKSAG:2003	-	-

Data link log-on: 9%

ADS/CPDLC CONNECTION RECORD
(Yangon Area Control Centre)

Airway : B465

Date: 25/12/2010

No	Call sign	Type	Dep/Dest	FL	Entry pt	Mid pt	Exit pt	ADS	CPDLC
1.	CPA017	B744	VHHH/VIDP	320	AKSAG:0357	MDY:1437	APAGO:0502	-	-
2.	HVN525	N772	VVNB/UUDD	360	AKSAG:0449	MDY:0525	APAGO:0554	OK	OK
3.	CKS246	B744	VHHH/OBBI	300	AKSAG:0448	MDY:0524	APAGO:0552	-	-
4.	QTR6883	B77L	VHHH/OTBD	340	AKSAG:0715	MDY:0747	APAGO:0820	OK	OK
5.	MPH092	B744	VHHH/OMSJ	300	AKSAG:1154	MDY:1229	APAGO:1257	OK	OK
6.	HDA192	A333	VHHH/VGZR	380	AKSAG:1214	MDY:1238	APAGO:1322	OK	OK
7.	CPA007	B744	VHHH/OMDB	300	AKSAG:1658	MDY:1733	APAGO:1759	-	-
8.	CPA067	B744	VHHH/VIDP	320	AKSAG:1457	MDY:1536	APAGO:1603	-	-
9.	CPA695	A343	VHHH/VIDP	360	AKSAG:1539	MDY:1617	APAGO:1645	-	-
10.	HVN535	B772	VVNB/LFPG	340	AKSAG:1800	MDY:1837	APAGO:1905	OK	OK
11.	QTR813	A332	VHHH/OTBD	360	AKSAG:1912	MDY:1946	APAGO:2008	-	-
12.	SMJ672	MD11	VHHH/OOMS	340	AKSAG:0302	MDY:0345	APAGO:0413	-	-
13.	CPA049D	B744	VHHH/VGZR	300	AKSAG:0510	MDY:0559	APAGO:0628	-	-
14.	AFL542	A333	VVNB/UUEE	320	AKSAG:0701	MDY:0746	APAGO:0815	-	-
15.	HVN544	B772	EDDF/VVNB	370	APAGO:1807	MDY:1828	AKSAG:1900	-	-
16.	HDA191	A333	VNKT/VHHH	370	APAGO:1925	MDY:1946	AKSAG:2015	-	-
17.	CPA732D	B744	OEDF/VVNB	410	APAGO:2127	MDY:2149	AKSAG:2217	-	-
18.	HVN534	B772	LFPG/VVNB	370	APAGO:2237	MDY:2258	AKSAG:2325	-	-
19.	HVN524	B772	UUDD/VVNB	370	APAGO:370	MDY:0230	AKSAG:0302	-	-
20.	AFL541	B763	UUEE/VVNB	370	APAGO:0237	MDY:0256	AKSAG:0315	-	-
21.	LOT85	B763	EPWA/VVNB	370	APAGO:0647	MDY:0711	AKSAG:0743	-	-
22.	CPA694D	A343	VIDP/VHHH	370	APAGO:0749	MDY:0812	AKSAG:0839	-	-
23.	CPA048	B744	VGZR/VHHH	390	APAGO:1026	MDY:049	AKSAG:1114	-	-
24.	HVN545	B772	VVNB/EDDF	340	AKSAG:2200	MDY:2248	APAGO:2316	-	-

Data link log-on: 21%

ADS/CPDLC CONNECTION RECORD
(Yangon Area Control Centre)

Airway : B465

Date: 26/12/2010

No	Call sign	Type	Dep/Dest	FL	Entry pt	Mid pt	Exit pt	ADS	CPDLC
1.	HDA192	A333	VHHH/VGZR	360	AKSAG:1215	MDY:1255	APAGO:1322	-	-
2.	CPA695	A343	VHHH/VIDP	340	AKSAG:1539	MDY:1622	APAGO:1651	-	-
3.	CPA037	B744	VHHH/VIDP	320	AKSAG:1602	MDY:1632	APAGO:1706	OK	OK
4.	LOT86	B763	VVNB/EPWA	320	AKSAG:1759	MDY:1829	APAGO:1908	-	-
5.	QTR813	A332	VHHH/OTBD	340	AKSAG:1906	MDY:1942	APAGO:2011	OK	OK
6.	HVN535	B772	VVNB/LFPG	360	AKSAG:1827	MDY:1903	APAGO:1930	OK	OK
7.	GTI8091	B744	OAMS/RCTP	410	APAGO:1210	MDY:1234	AKSAG:1301	-	-
8.	HDA191	A333	VNKT/VHHH	390	APAGO:1859	MDY:1922	AKSAG:1952	OK	OK
9.	CPA694	A343	VIDP/VHHH	370	APAGO:1909	MDY:1931	AKSAG:2002	-	-
10.	HVN534	B772	LFPG/VVNB	370	APAGO:2142	MDY:2205	AKSAG:2230	-	-

Data link log-on: 40%

ADS/CPDLC CONNECTION RECORD
(Yangon Area Control Centre)

Airway : B465

Date: 27/12/2010

No	Call sign	Type	Dep/Dest	FL	Entry pt	Mid pt	Exit pt	ADS	CPDLC
1.	HVN544	B772	EDDF/VVNB	390	APAGO:0017	MDY:0039	AKSAG:0106	-	-
2.	CKS248	B744	VHHH/VIDP	340	AKSAG:0454	MDY:0535	APAGO:0602	-	-
3.	CPA017	B744	VHHH/VIDP	320	AKSAG:0456	MDY:0531	APAGO:0558	-	-
4.	CPA694	A333	VIDP/VHHH	390	APAGO:1857	MDY:1920	AKSAG:1950	OK	OK
5.	HDA191	A333	VNKT/VHHH	370	APAGO:1916	MDY:1939	AKSAG:2009	-	-
6.	HVN534	B772	LFPG/VVNB	370	APAGO:2218	MDY:2240	AKSAG:2308	-	-
7.	HDA192	A333	VHHH/VGZR	370	AKSAG:1229	MDY:1302	APAGO:1332	OK	OK
8.	CPA695	A343	VHHH/VIDP	360	AKSAG:1537	MDY:1605	APAGO:1636	-	-
9.	HVN545	B772	VVNB/EDDF	360	AKSAG:1804	MDY:1839	APAGO:1906	OK	OK
10.	QTR813	A332	VHHH/OTBD	360	AKSAG:1921	MDY:1951	APAGO:2027	-	-

Data link log-on: 30%

ADS/CPDLC CONNECTION RECORD
(Yangon Area Control Centre)

Airway : B465

Date: 28/12/2010

No	Call sign	Type	Dep/Dest	FL	Entry pt	Mid pt	Exit pt	ADS	CPDLC
1.	LOT85	B763	EPWA/VVNB	370	APAGO:0657	MDY:0715	AKSAG:0744	-	-
2.	CPA008	B744	VIDP/VHHH	370	APAGO:1000	MDY:1023	AKSAG:1052	-	-
3.	AFL541	A332	UUEE/VVNB	370	APAGO:0947	MDY:1011	AKSAG:1042	OK	OK
4.	AFL542	A332	VVNB/UUEE	340	AKSAG:1417	MDY:1440	APAGO:1506	OK	OK
5.	QTR6881	B77L	VHHH/OTBD	320	AKSAG:1540	MDY:1614	APAGO:1640	-	-
6.	CPA049	B744	VHHH/VGZR	340	AKSAG:1649	MDY:1721	APAGO:1747	OK	OK
7.	CPA695	A333	VHHH/VIDP	380	AKSAG:1723	MDY:1757	APAGO:1821	-	-
8.	LOT86	B763	VVNB/EPWA	320	AKSAG:1810	MDY:1840	APAGO:1912	-	-
9.	HVN535	B772	VVNB/LFPG	340	AKSAG:1758	MDY:1830	APAGO:1856	-	-
10.	CPA057	B744	VHHH/VIDP	340	AKSAG:1902	MDY:1932	APAGO:1957	-	-
11.	QTR813	A332	VHHH/OTBD	380	AKSAG:1901	MDY:1942	APAGO:2008	-	-
12.	UAE381	B77W	VHHH/OMDB	360	AKSAG:1956	MDY:1926	APAGO:1955	-	-
13.	CPA039	B744	VHHH/OMDB	340	AKSAG:2240	MDY:2312	APAGO:2333	-	-
14.	CPA694	A343	VIDP/VHHH	370	APAGO:1910	MDY:1935	AKSAG:2003	-	-
15.	HVN544	B772	EDDF/VHHH	370	APAGO:2245	MDY:2307	AKSAG:2336	-	-

Data link log-on: 20%

ADS/CPDLC CONNECTION RECORD
(Yangon Area Control Centre)

Airway : B465

Date: 29/12/2010

No	Call sign	Type	Dep/Dest	FL	Entry pt	Mid pt	Exit pt	ADS	CPDLC
1.	OEIGG	GLEX	LOWK/VVDN	410	APAGO:0132	MDY:0154	AKSAG:0223	-	-
2.	AFL541	A332	UUEE/VVNB	370	APAGO:0405	MDY:0430	AKSAG:0458	OK	OK
3.	CKS246	B744	VHHH/OBBI	320	AKSAG:2339	MDY:0011	APAGO:0036	-	-
4.	QTR6883	B77L	VHHH/OTBD	320	AKSAG:0417	MDY:0452	APAGO:0510	OK	OK
5.	HVN525	B772	VVNB/UUDD	360	AKSAG:0508	MDY:0538	APAGO:0605	OK	OK
6.	MPH092	B744	VHHH/OMSJ	320	AKSAG:0751	MDY:0822	APAGO:0848	OK	OK
7.	AFL542	A332	VVNB/UUEE	340	AKSAG:0816	MDY:0846	APAGO:0918	OK	OK
8.	HDA191	A333	VNKT/VHHH	370	APAGO:1851	MDY:1913	AKSAG:1943	OK	OK
9.	CPA694	A333	VIDP/VHHH	350	APAGO:1909	MDY:1932	AKSAG:2002	-	-
10.	HVN534	B772	LFPG/VVNB	350	APAGO:2205	MDY:2227	AKSAG:2256	OK	OK
11.	HDA192	A333	VHHH/VGZR	380	AKSAG:1156	MDY:1226	APAGO:1258	OK	OK
12.	CPA695	A343	VHHH/VIDP	340	AKSAG:1537	MDY:1612	APAGO:1639	-	-
13.	CPA037	B744	VHHH/VIDP	320	AKSAG:1552	MDY:1620	APAGO:1645	-	-
14.	UAE9863	B744	VHHH/OMDB	320	AKSAG:1910	MDY:1943	APAGO:2008	OK	OK
15.	QTR813	A332	VHHH/OTBD	360	AKSAG:1859	MDY:1933	APAGO:1954	OK	OK
16.	HVN535	B772	VVNB/LFPG	340	AKSAG:1838	MDY:1909	APAGO:1934	OK	OK

Data link log-on: 69%

ADS/CPDLC CONNECTION RECORD
(Yangon Area Control Centre)

Airway : B465

Date: 30/12/2010

No	Call sign	Type	Dep/Dest	FL	Entry pt	Mid pt	Exit pt	ADS	CPDLC
1.	HDA192	A333	VHHH/VGZR	380	AKSAG:1153	MDY:1227	APAGO:1258	OK	OK
2.	CPA695	A343	VHHH/VIDP	360	AKSAG:1532	MDY:1619	APAGO:1632	-	-
3.	CPA067	B744	VHHH/VIDP	320	AKSAG:1512	MDY:1544	APAGO:1610	OK	OK
4.	HVN545	B772	VVNB/EDDF	320	AKSAG:1809	MDY:1846	APAGO:1913	OK	OK
5.	UAE381	B77W	VHHH/OMDB	320	AKSAG:1847	MDY:1917	APAGO:1942	OK	OK
6.	SMJ672	MD11	VHHH/OOMS	300	AKSAG:2213	MDY:2243	APAGO:2306	-	-
7.	QTR813	A332	VHHH/OTBD	380	AKSAG:1923	MDY:1953	APAGO:2022	OK	OK
8.	MPH090	B744	VHHH/OMSJ	320	AKSAG:0426	MDY:0456	AKSAG:0521	-	-
9.	QTR6881	B77L	VHHH/OTBD	300	AKSAG:0704	MDY:0730	APAGO:0802	OK	OK
10.	CPA049	B744	VHHH/VGZR	340	AKSAG:0828	MDY:0858	APAGO:0924	-	-
11.	S2AEV	P180	VVNB/VGEG	320	AKSAG:0854	MDY:0924	APAGO:1013	-	-
12.	CPA041	B744	VHHH/VIDP	320	AKSAG:1135	MDY:1207	APAGO:1228	-	-
13.	CPA048	B744	VGZR/VVNB	330	APAGO:1306	MDY:1328	AKSAG:1356	OK	OK
14.	CPA694	A333	VIDP/VHHH	370	APAGO:1859	MDY:1923	AKSAG:1951	OK	OK
15.	HDA191	A333	VNKT/VHHH	350	APAGO:1853	MDY:1920	AKSAG:1947	-	-
16.	CPA042	A343	VIDP/VHHH	390	APAGO:1946	MDY:2010	AKSAG:2039	OK	OK
17.	HVN534	B772	LFPG/VVNB	370	APAGO:2206	MDY:2229	AKSAG:2259	OK	OK
18.	HVN544	B772	EDDF/VVNB	390	APAGO:0009	MDY:0032	AKSAG:0101	-	-
19.	HVN524	B772	UDD/VVNB	390	APAGO:0226	MDY:0250	AKSAG:0319	-	-
20.	LOT85	B763	EPWA/VVNB	370	APAGO:0753	MDY:0817	AKSAG:0848	-	-

Data link log-on: 50%

ADS/CPDLC CONNECTION RECORD
(Yangon Area Control Centre)

Airway : B465

Date: 31/12/2010

No	Call sign	Type	Dep/Dest	FL	Entry pt	Mid pt	Exit pt	ADS	CPDLC
1.	AFL541	A332	UUEE/VVNB	370	APAGO:0004	MDY:0027	AKSAG:0056	OK	OK
2.	CPA058	B744	VIDP/VHHH	350	APAGO:0646	MDY:0708	AKSAG:0736	OK	OK
3.	CPA594	A343	VIDP/VHHH	370	APAGO:1858	MDY:1922	AKSAG:1952	-	-
4.	HDA191	A333	VNKT/VHHH	350	APAGO:1924	MDY:1944	AKSAG:2013	-	-
5.	HVN544	B772	EDDF/VVNB	370	APAGO:2233	MDY:2255	AKSAG:2355	-	-
6.	CPA037	B744	VHHH/VIDP	340	AKSAG:0250	MDY:0326	APAGO:0350	-	-
7.	AFL542	A332	VVNB/UUEE	360	AKSAG:0423	MDY:0453	APAGO:0531	-	-
8.	UAE9839	B77L	VHHH/OMDB	320	AKSAG:1211	MDY:1247	APAGO:1311	-	-
9.	HDA192	A333	VHHH/VGZR	360	AKSAG:1212	MDY:1252	APAGO:1317	-	-
10.	UAE9885	B744	VHHH/OMDB	300	AKSAG:1415	MDY:1439	APAGO:1500	OK	OK
11.	CPA695	A343	VHHH/VIDP	340	AKSAG:1536	MDY:1606	APAGO:1640	-	-
12.	QTR6881	B77L	VHHH/OTBD	300	AKSAG:1536	MDY:1606	APAGO:1633	OK	OK
13.	HVN535	B77L	VVNB/LFPG	360	AKSAG:1807	MDY:1841	APAGO:1904	-	-
14.	QTR813	A332	VHHH/OTBD	360	AKSAG:1909	MDY:1948	APAGO:2016	-	-

Data link log-on: 29%