



International Civil Aviation Organization

**The First Meeting of the South Asia/Indian Ocean ATM Coordination Group
(SAIOACG/1)**

Bangkok, Thailand, 19 – 23 September 2011

Agenda Item 9: Any Other Business

REVIEW OF ASIA PACIFIC REGION ROUTE CATALOGUE

(Presented by Secretariat)

SUMMARY

This paper presents the outstanding routes in the Route Catalogue for review and update by the meeting.

1. INTRODUCTION

1.1 The Asia Pacific Region Route Catalogue was last reviewed on 10 Mar 2011 by the SEACG meeting.

1.2 The routes in the catalogue relevant to this meeting are presented to this meeting as **Attachment** for review and updates on progress if any. Participants should note that this is a truncated version of the Catalogue version 9, with content not applicable to SAIOACG removed for ease of review.

2. DISCUSSION

2.1 It should be noted that a number of routes in the route catalogue have been implemented in its entirety or in part. There were some routes which were no longer required as a result of an alternative route being implemented serving the same requirement. Some of the routes may no longer be required by the requesting party. Meeting is urged to review the routes presented and update the progress on implementation accordingly. This will then be reflected in the next version of the Route catalogue.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) update the route catalogue accordingly.

.....

ASIA/PACIFIC REGION ATS ROUTE CATALOGUE



INTERNATIONAL CIVIL AVIATION ORGANIZATION
ASIA/PACIFIC REGIONAL OFFICE

VERSION 10 SAIOACG REVIEW

XXX Date

Foreword

The *Air Navigation Plan – Asia and Pacific Regions* (Doc 9673), Volume I, Basic ANP (BANP) contains ATS route requirements which were developed by the Third Asia and Pacific Regional Air Navigation Meeting (Bangkok, May 1993). The requirements have been revised from time to time to reflect current operational needs. There is also an ongoing need to revise and update these requirements and amend the BANP.

The fourteenth meeting of the ASIA/PAC Air Navigation Planning and Implementation Regional Group (APANPIRG/14, August 2004) under Conclusion 14/5 established the ATS Route Network Review Task Force (ARNR/TF) to review the Asia and Pacific ATS route network as contained in the BANP, determine present and future route requirements, and revise the BANP as appropriate. To facilitate the amendment process and keep track of route implementation and future requirements, and with the objective of providing more up to date information on route developments, ARNR/TF prepared the draft *Asia/Pacific ATS Route Catalogue* as a supplement to the BANP.

APANPIRG/16 (August 2005, Bangkok), recognizing the value of a consolidated reference document for the regional ATS routes and future route requirements of States and airspace users, accepted the Route Catalogue under Decision 16/9. The Route Catalogue is intended to be a living document supplementing the BANP and to be maintained by ICAO Asia and Pacific Office. Communication in relation to the Route Catalogue should be made via email to the ICAO Asia and Pacific Office at icao_apac@bangkok.icao.int.

The ATS Route Catalogue consists of five chapters as follows:

- Chapter 1: Routes in BANP
- Chapter 2: Routes in BANP – Not Implemented
- Chapter 3: Routes Implemented – Not in the BANP/or Not in Accordance with the BANP
- Chapter 4: Future Requirements – States
- Chapter 5: Future Requirements – Users

Chapter 1 lists ATS routes which have been contained in the BANP. This chapter will be regularly updated as amendments to the BANP are approved and implemented.

Chapter 2 lists ATS routes which have been contained in the BANP but not been implemented in accordance with BANP requirements. This Chapter is intended for use as reference material to facilitate the resolution of any outstanding matters in order to fully implement or revise the routes.

Chapter 3 lists ATS routes which are not contained in the BANP but have been implemented by States. This Chapter contains information in relation to routes that have been subject to a BANP amendment proposal and implemented prior to the proposal being approved by ICAO. The purpose of this Chapter is to temporarily record route information, and States would be expected to take appropriate action to ensure alignment of implemented routes with the BANP.

Chapters 4 and 5 list ATS routes proposed by States and international organizations, respectively. These routes have not been included in the BANP or implemented. The material in these Chapters is intended to be used as a basis for developing BANP amendment proposals, and to provide information on route planning developments which would form the basis for future proposals.

The material in Chapter 4 is organized in two parts: Part A contains those routes that have been agreed among States concerned and to be processed as amendment proposals to the BANP. Part B provides information on States' route requests that would be subject to further coordination and agreement.

The material in Chapter 5 is organized in two parts: Part A contains those routes that have been agreed by States concerned and to be processed as amendment proposals to then BANP. Part B provides information on users' route requests that are subject to further coordination and agreement.

Note: — As the ATS Route Catalogue is intended for use as a supplement to the BANP, it does not replace the BANP nor should it be used as an operational document. Its primary purpose is to assist States and airspace users by providing more up to date information, to develop and maintain the ATS routes in the Asia and Pacific Region.

Amendment Record

Version/Amendment Number	Date	Amended by	Comments
0.1	14 February 2005	-	ARNR/TF/2 developed the draft version.
0.2	5 May 2005	ARNR/TF/3	Finalized the format following contribution from the members.
0.3	29 July 2005	ATM/AIS/SAR/SG/15	Sub-Group concluded that the Catalogue be adopted (Draft Conclusion 15/3).
1	26 August 2005	APANPIRG/16	APANPIRG/16 decided that the Catalogue be accepted (Decision 16/9).
2	24 January 2006	BBACG/17	BBACG/17 reviewed and updated the Catalogue.
3	19 May 2006	SEACG/13	SEACG/13 reviewed and updated the Catalogue.
4	26 January 2007	BBACG/18	BBACG/18 reviewed and updated the Catalogue.
5	23 May 2008	SEACG/15	SEACG/15 reviewed and updated the Catalogue.
6	15 May 2009	SEACG/16	SEACG/16 reviewed and updated the Catalogue.
7	27 May 2010	SEACG/17	SEACG/17 reviewed and updated the Catalogue.
8	10 March 2011	BBACG/21	BBACG/21 reviewed and updated the Catalogue.
9	6 May 2011	SEACG/18	SEACG/18 reviewed and updated the Catalogue.
10		BBACG/22	

Chapter 1: Routes in BANP

The segments which have not been implemented are shown by **bold** significant points.

G224	NORFORK IS NADI PAGO PAGO TAHITI ISLA DE PASCUA (SANTIAGO)				KATHMANDU
		G337	PERTH CHRISTMAS IS PEKANBARU		
		G338	CHOIBALSAN KAGAK		
G325	COLOMBO TIRUCHCHIRAPPALLI	G339	PUSAN FUKUOKA KAGOSHIMA TANEGASHIMA PAKDO GUAM		
G326	BALI TENNANT CREEK BRISBANE				
G327	NANHUI NINAS 3100.0N 12215.0E AKARA 3130.0N 12330.0E	G340	QINGBAIKOU HUAILAI		
G329	BRISBANE NORFORK IS	G341	CHANGCHUN WANGQING		
G330	SHANGHAI POMOK NANTONG GURNI 3209.2N 12058.5E PIMOL 3215.0N 11944.0E	G342	CAIRNS HONIARA		
		G344	COMFE 3624.0N 14618.0E CUTEE 4624.9N 16218.6E CUDDA 5647.9N 16018.1W		
G331	PHUKET PADET DAWEI	G345	UNTAN CHANGZHOU LISHUI		
G332	TANGHEKOU CHAOYANG	G346	KIMCHAEK NULAR 4059.2N 13411.0E IGROD 4139.0N 13647.0E		
G333	DELHI ESDEM TIGER 2828.8N 07214.9E	G347	AUCKLAND POPIR 2500.0S 17804.8W PADDI 1825.7N 15854.8W		
G334	KUALA LUMPUR TIOMAM BUNTO 0242.0N 10600.0E DOTAS 0201.1N 10820.5E SIBU	G348	PARO BAGDOGRA MECHI KATHMANDU		
G335	KATHMANDU JANAKPUR PATNA	G424	(DAR ES SALAAM) VUTAS 0912.0N 06000.0E ALATO 1340.7N 06344.0E		
G336	DHANBAD PATNA SIMRA				

Chapter 4: Part B: Future Route Requirements – States

(The routes in this section are intended to be used as a basis for developing BANP amendment proposals, and to provide information on route planning developments which would form the basis for future proposals. These routes are subject to coordination and agreement.)

PROPOSER	ATS ROUTE	SIGNIFICANT POINTS	COORDINATES	FIR	REMARKS
Nepal	Himalaya 1	Kolkata Nepalgunj INDEK	2238.7N 08827.2E 2806.1N 08139.1E 3246N 7316E	Kolkata Kathmandu Lahore	
	Himalaya 2	Kathmandu Baghdogra Guwahati Silchar Imphal Kunming	2740.5N 08521.0E 2641.3N 08819.8E 2606.1N 09135.3E 2454.8N 09258.9E 2446.0N 09354.5E 2501N 10244E	Kathmandu Kolkata Kolkata Kolkata Kolkata Kunming	

ATS ROUTE NAME: Himalaya 1

Requested by : Nepal

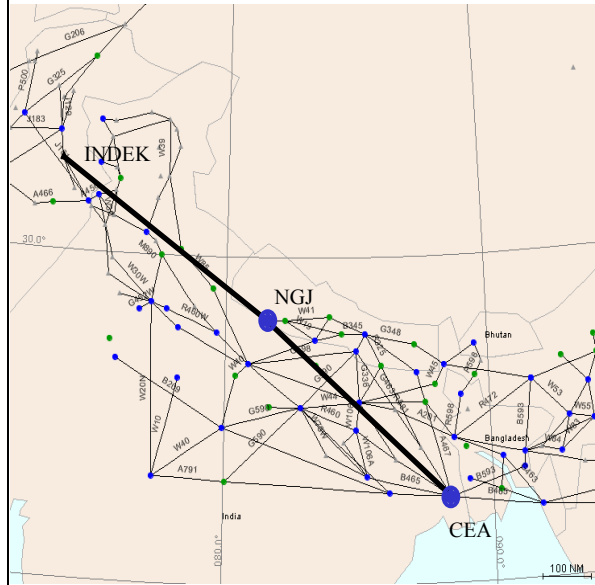
ENTRY/EXIT POINT
XXXXX

ROUTE DESCRIPTION
Kolkata (CEA) .. Nepalgunj (NGJ) .. INDEK

FLIGHT LEVEL BAND

PRIORITY: HIGH/MED/LOW

CHART



Action Required	States to coordinate implementation.
	.

Benefit		
Cost		
Fuel Saving		
Emission	CO ₂	
	NO _x	

Remarks:

ATS ROUTE NAME: Himalaya 2

Requested by : Nepal

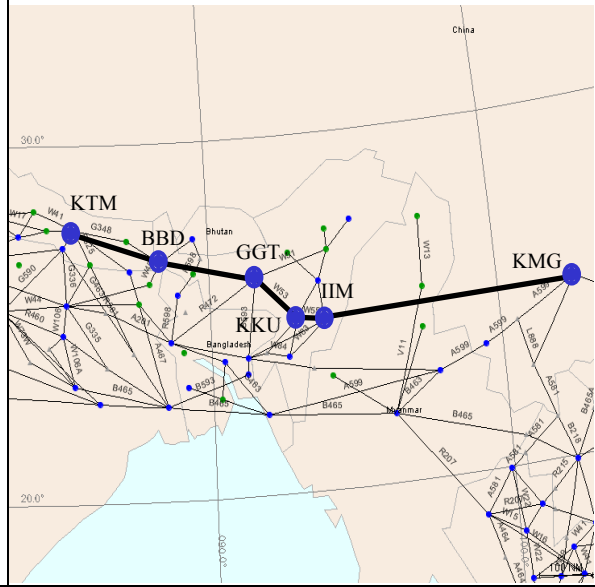
ENTRY/EXIT POINT
XXXXX

ROUTE DESCRIPTION
Kathmandu (KTM) .. Baghdogra (BBD) ..
Guwahati (GGT) .. Silchar (KKU) .. Imphal
(IIM) .. Kunming (KTM)

FLIGHT LEVEL BAND

PRIORITY: HIGH/MED/LOW

CHART



Action Required	States to coordinate implementation.
	.

Benefit		
Cost		
Fuel Saving		
Emission	CO ₂	
	NO _x	

Remarks: China advised that they would seriously look at the proposal and would coordinate with Nepal (ref. para 8.4 of the SEA-RR/TF/4 report). This was also presented at the 22nd Meeting of the BBACG.

Chapter 5: Part B: Future Route Requirements – Users

(The routes in this section are intended to be used as a basis for developing the BANP amendment proposals, and to provide information on route planning developments which would form the basis for future proposals. These routes are subject to coordination and agreement.)

ATS ROUTES	SIGNIFICANT PTS	COORDINATES	FIR	REMARKS
IND 1	BBS BPL	N2014.6 E08548.8 N2317.0 E07720.2	KOLKATTA MUMBAI	
IND 7	PRA SERKA KAMAR BIRJAND	N2401.8 E07445.0 N2951.0 E06615.0 N3239.0 E06044.0 N3258.3 E05912.0	MUMBAI DELHI KABUL TEHERAN	N877 Extension
IDO 1	SJ MABIX	N0113.4 E10351.3 N0316.0 E09450.9	SINGAPORE JAKARTA	
COL 1	KAT TNV	N0709.7 E07952.1 S1842.2 E04731.1	COLOMBO MADAGASCAR	
KAB 1	HANGU GHAZNI	N33 29.1 E07100.4 N33 32.9 E06825.2	PAKISTAN KABUL	

Note1: Acronyms used for route names are only intended as a rough guide to the location of the routes. They are explained below:

IND - India
 SEA - South East Asia
 SCS - South China Sea
 PHI - Philippines
 THA - Thailand
 TPE - Taipei
 PRD - Pearl River Delta
 KAB - Kabul
 IDO - Indonesia
 COL - Colombo
 CHA - China
 IATA - earlier IATA requested routes in China
 WPC - West Pacific Area

Note 2: Route names in parenthesis refer to the original names from an earlier route catalogue. They are renamed following consolidation of China routes and ARNR TF 3 meeting.

ATS ROUTE NAME: IND1

REQUESTED BY: IATA

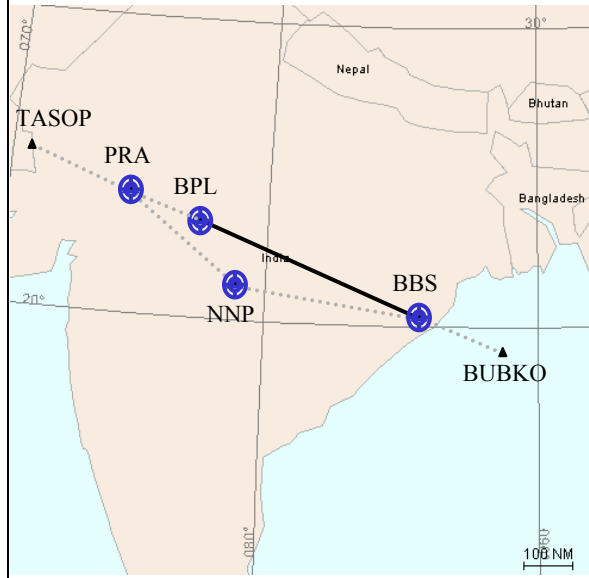
ENTRY/EXIT POINT
BBS / BPL

ROUTE DESCRIPTION
BBS .. BPL

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	25nm /3 mins	
Fuel	406kg	148190 kg
CO ₂	1250kg	456250kg
No _x		

Remarks

Potential City Pairs: Europe/South East Asia

ATS ROUTE NAME: IND 7 (N877 Extension)
REQUESTED BY: IATA

<p>ENTRY/EXIT POINT PRA - KAMAR</p> <p>ROUTE DESCRIPTION Direct Route Track from PRATAGARH PRA – SERKA– SOKAM FLIGHT LEVEL BAND 28000-46000</p> <p>PRIORITY: HIGH/MED/LOW HIGH</p>	<p style="text-align: center;">CHART</p>
---	---

Action Required	IATA.
	ICAO

Saving	Per flight	Annual
Mileage / Time	294 nm/37 min.	
Fuel	4777kg	1,743 tonnes
CO ₂	147,000kg	5,365 tonnes
No _x		

Remarks

Potential City Pairs: KUL/SIN – MID-EAST/EUROPE

ATS ROUTE NAME: IDO1
REQUESTED BY: IATA

<p>ENTRY/EXIT POINT SJ / MABIX</p> <p>ROUTE DESCRIPTION SJ .. MABIX</p> <p>FLIGHT LEVEL BAND 28000 – 46000 feet</p> <p>PRIORITY: HIGH/MED/LOW</p>	<p style="text-align: center;">CHART</p>
---	---

Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	16nm/ 2min	
Fuel	260kg	95,000kg
CO ₂	800kg	292,000kg
No _x		

Remarks

Potential City Pairs:

ATS ROUTE NAME: COL 1
REQUESTED BY: IATA

<p>ENTRY/EXIT POINT KAT / TNV</p> <p>ROUTE DESCRIPTION KAT .. TNV (ANTANANARIVO)</p> <p>FLIGHT LEVEL BAND 28000 – 46000 feet</p> <p>PRIORITY: HIGH/MED/LOW</p>	<p style="text-align: center;">CHART</p>
--	---

Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	130nm /16 min	
Fuel	2110kg	770,000kg
CO ₂	6,500kg	2,370 tonnes
No _x		

Remarks

Potential City Pairs:

ATS ROUTE NAME: KAB1
 REQUESTED BY: IATA

<p>ENTRY/EXIT POINT HANGU / XXXXX / GN</p> <p>ROUTE DESCRIPTION HANGU -GN</p> <p>FLIGHT LEVEL BAND 28000 – 46000 feet</p> <p>PRIORITY: HIGH/MED/LOW HIGH</p>	<p style="text-align: center;">CHART</p>
--	---

Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	66nm/ 8min	
Fuel	1070kg	391,000kg
CO ₂	3,300kg	1,204 tonnes
No _x		

Remarks

Potential City Pairs: