



International Civil Aviation Organization

**Fifteenth Meeting of the APANPIRG ATM/AIS/SAR Sub-Group
(ATM/AIS/SAR/SG/15)**

Bangkok, Thailand, 25 – 29 July 2005

Agenda Item 4: Consider problems and make specific recommendations concerning the provision of ATM/AIS/SAR in the Asia/Pacific Region

ADOPTION OF THE ASIA/PACIFIC ATS ROUTE CATALOGUE

(Presented by the Secretariat)

SUMMARY

This paper presents the *Asia/Pacific ATS Route Catalogue* for adoption by the meeting.

1. INTRODUCTION

1.1 Significant changes to the ATS route structures in the Asia/Pacific Region in particular in the South China Sea area and under the EMARSSH (Revised ATS Route Structure, Asia to Middle East/Europe, South of the Himalayas) project for routes from Asia to the Middle East and Europe have taken place since 2001. Other route changes had been made by many States in the region, and unfortunately much of this information had not yet been recorded by the ICAO Asia and Pacific Office, and the *Air Navigation Plan – Asia and Pacific Regions* (Doc 9673), Volume I, Basic ANP (BANP) had not been amended, including the EMARSSH routes.

1.2 In view of the magnitude of the task to keep the BANP up to date, the 14th Meeting of Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/14, August 2003) was of the opinion that a Task Force should be formed to thoroughly review and update the BANP, prepare a master database of the routes that had been implemented, update the five-letter name-codes and co-ordinates that had been assigned to the significant points on the ATS routes, and undertake a study of future route requirements, thus establishing the ATS Route Network Review Task Force (ARNR/TF).

2. DISCUSSION

2.1 The First Meeting of the ARNR/TF (ARNR/TF/1, September 2004) noted that IATA used a format to present its route requirements and agreed that this would be an ideal way to compile and collate the list of routes proposed by States and users. It would also be useful to include a section containing the routes listed in the BANP. Further, in view of the comments made by IATA in respect to the BANP routes not implemented, another section was agreed to be included to show these routes.

2.2 Accordingly, the ARNR/TF/1 agreed to establish the *Asia/Pacific Route Catalogue* with five chapters as follows:

- Chapter 1: Routes in BANP – Implemented
- 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

2.3 The ARNR/TF/2 (February 2005) considered that the fact that a route was not implemented or partially implemented should not be considered as a deficiency, as the reasons for this were not safety-related. There were also cases that routes could not be implemented for a variety of reasons beyond the capability of the ATS provider to overcome. The ARNR/TF/2 noted that all routes contained on the APANPIRG List of Deficiencies could be moved to the Route Catalogue and full details would be provided on the status of the routes, action being taken, and regular updates would be provided as appropriate. By doing so, the Route Catalogue fully captured all these circumstances and there was no longer a need to retain them on the List of Deficiencies. Accordingly, it was recommended that APANPIRG/16 delete them from the List of Deficiencies.

2.4 It was noted that the BANP was an official and formal document which took time to amend. Therefore, recent amendments to the BANP would not be published in a timely manner. With the objective of supplementing the BANP and making more timely information available, the Route Catalogue was developed as a living document to be maintained by the Regional Office and updated at least annually and to be posted on the ICAO APAC website: www.icao.int/apac.

2.5 The ARNR/TF/2 adopted the Route Catalogue Version 0.1 as updated.

2.6 The ARNR/TF/3 recalled that ARNR/TF/2 had agreed to finalize the Route Catalogue at ARNR/TF/3. As a result of the discussions at ARNR/TF/2, the Secretariat included a foreword to the Route Catalogue on the purpose and the history of the document, and relationship with the BANP.

2.7 In considering the role of the Route Catalogue, it was intended that this should be an informal supplementary document to the BANP containing consolidated material from the BANP and related documents, to serve as an aid to States and users for route planning purposes. As such, the Route Catalogue did not replace the BANP or provide material to be used in an operational context. It was noted that the Route Catalogue was primarily a one stop information document on what routes were contained in the BANP, status on implementation and amendment, and future route requirements of States and users intended for planning purposes.

2.8 The ARNR/TF/3 noted that in considering updating and amendment of the Route Catalogue, as the document was meant to be an aid to users, it should be a living document and the amendment process should be kept at an informal level. All the material in Chapters 1, 2 and 3 in respect to the BANP was developed and amended in accordance with established procedures. In this regard, the ARNR/TF/3 agreed that the Route Catalogue simply recorded the current status of the routes in the BANP and did not require any formal approval to be included in the Route Catalogue; therefore it could be left to the Regional Office to update.

2.9 However, in regard to material in Chapters 4 and 5, this would require some additional prior approval process and not simply submitted to the Regional Office on an ad hoc basis by the originator(s). For the material to be placed in the Chapters 4 and 5 of the Route Catalogue, it

was suggested that a State, a recognized international organization and/or the related State/ICAO ATS coordination group should be the approving body. States would submit their route proposals in accordance with established ICAO procedures. In the case of route proposals by IATA member airlines, these would be submitted to IATA for processing in accordance with their established practices. For airlines not IATA members, proposals should be submitted to the States concerned who would then consider the amendment proposal.

2.10 The ARNR/TF/3 reviewed the draft Catalogue *Foreword* including the flow charts on *Amendments to the Catalogue*. The ARNR/TF/3 finalized the layout and content structure to be included in the Route Catalogue.

2.11 The ARNR/TF/3 agreed that the Route Catalogue Version 0.2 (attached at the Appendix to this paper) should be updated by ATM/AIS/SAR/SG/15 and submitted to APANPIRG/16 as the First Edition 2005 for adoption as a supplement to the BANP.

2.12 As the Route Catalogue was a product of the work of the ARNR/TF established by APANPIRG, its status would need to be decided by APANPIRG, and the means by which it was amended be delegated by APANPIRG to the Regional Office or by some other agreed procedure determined by APANPIRG.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note that the *Asia/Pacific ATS Route Catalogue* was prepared by the ARNR/TF as a living document to supplement the BANP, and to be presented to APANPIRG/16 for approval;
 - b) endorse the ARNR/TF/3 recommendation that the Route Catalogue be used as a living document to supplement the BANP, and to be kept up to date and managed by the Asia/Pacific Office; and
 - c) in regard to a) and b), review and amend the *Asia/Pacific ATS Route Catalogue* as appropriate, and consider recommending to APANPIRG/16 that the Route Catalogue First Edition 2005 be adopted.
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DRAFT
ASIA AND PACIFIC REGION ATS ROUTE CATALOGUE



INTERNATIONAL CIVIL AVIATION ORGANIZATION

VER. 0.3

29 July 2005

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Foreword

The ICAO *Asia and Pacific Air Navigation Plan* (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 (including additions and deletions) 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/Pacific 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, the ARNR/TF prepared the *Asia and 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, adopted the Catalogue under Conclusion 16/xx. This document is intended to be a living document supplementing the BANP and to be maintained by ICAO Asia and Pacific Office.

The Catalogue consists of the following five chapters:

- Chapter 1: Routes in BANP – Implemented
- 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 implemented in accordance with the BANP. This chapter will be regularly updated as amendments to the BANP are approved and implemented.

Chapter 2 lists ATS routes which are contained in the BANP but have 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. Routes are also included that have been implemented by States and not subject to an amendment proposal. 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 the BANP. Part B provides information on users' route requests that are subject to further coordination and agreement.

Note:— As the Asia and Pacific 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.

Amendments to the BANP and Catalogue

A Contracting State or qualifying International Organization identifying a need for a new route requirement to be included in the BANP or to change an existing route contained in the BANP, may submit an amendment proposal to the Secretary General for approval by the President of the Council in accordance with established procedures summarized below.

Appropriately presented and documented proposals to amend the BANP are submitted to the ICAO Secretary General through the Regional Office and circulated to States and International Organizations for comment. Once all parties concerned agree to the proposal, the Secretary General will submit the proposal to the President of the Council for approval. The Regional Office will inform States and international organizations concerned of the approval and the BANP will be amended accordingly.

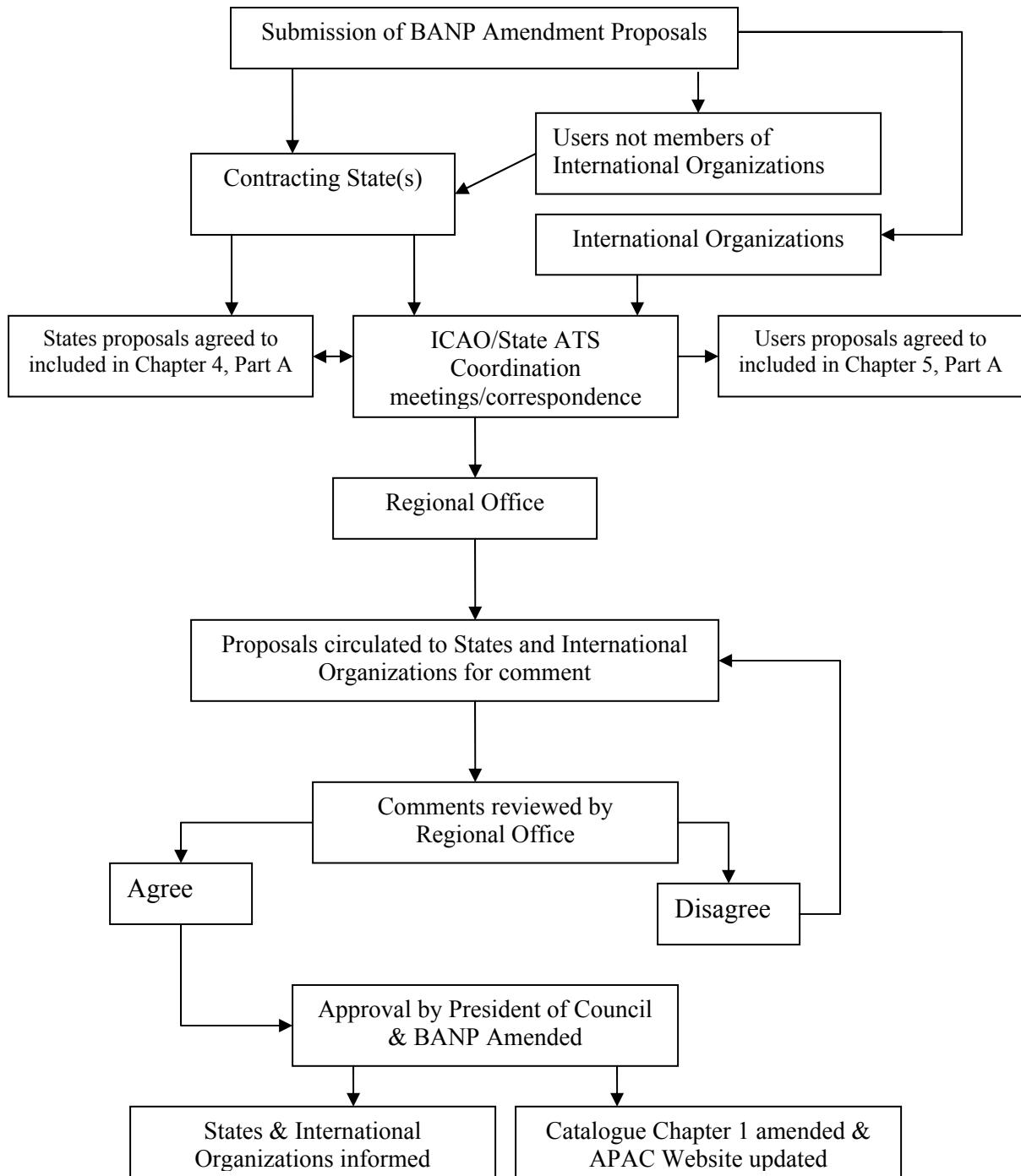
The Regional Office, which is responsible for maintaining the Catalogue, will update the document from time to time as amendment proposals are progressed and approved, and include new route requirements of States and Users.

Chapter 1 will be amended by the Regional Office subsequent to approval of an amendment to the BANP by the President of the Council. The amendment will be indicated by a vertical line in the margin of the Catalogue, and the revision number and date shown on the cover page of the document, which is posted on the ICAO APAC website (<http://www.icao.int/apac>).

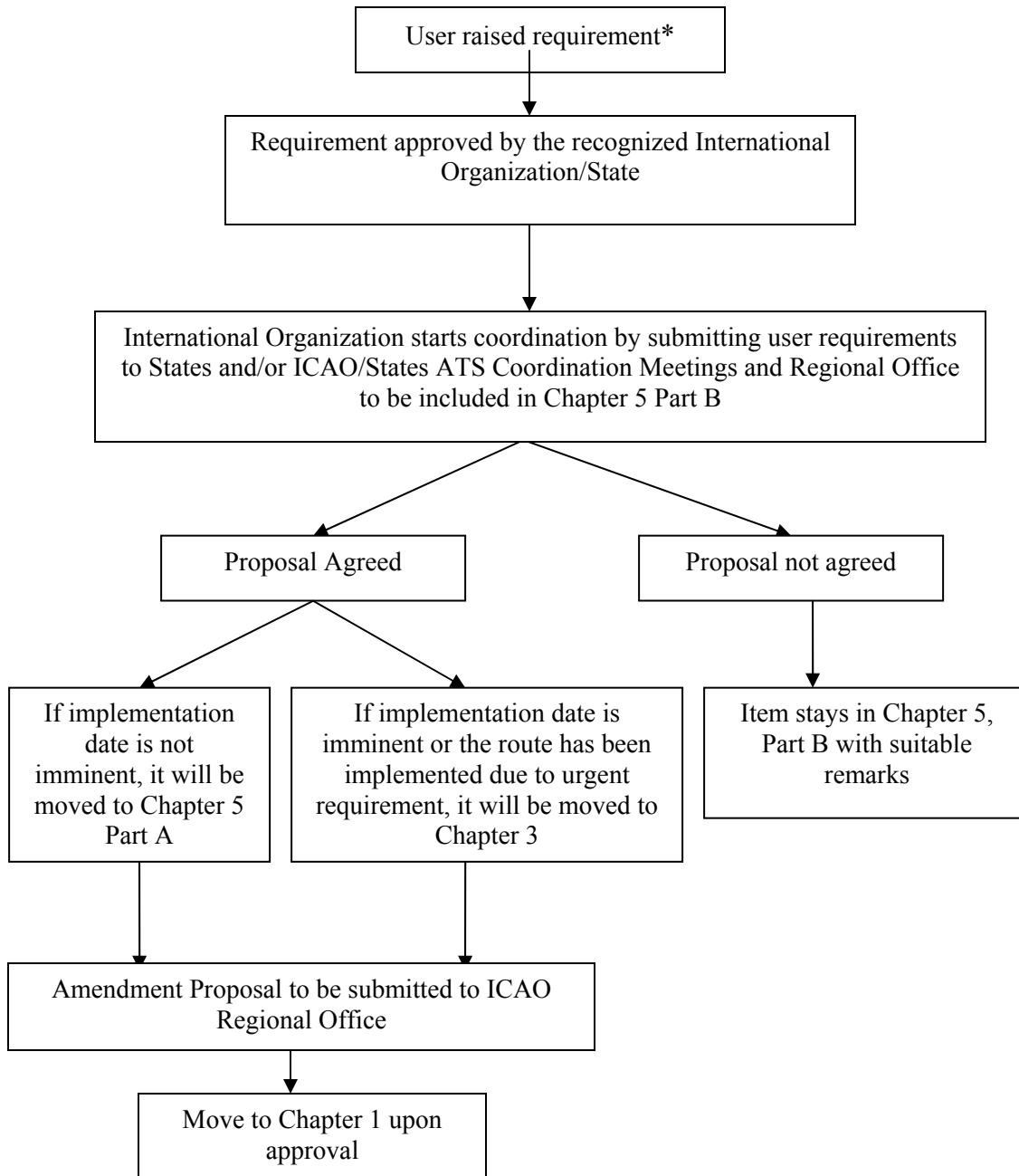
Chapters 4 and 5, Part A are amended based on route requirements submitted by States and International Organizations that have been agreed by the parties concerned to be included in the BANP and are subject to amendment proposals. On approval by ICAO, the proposals to be incorporated in the BANP would be transferred to Chapter 1. Other route requests submitted by States and Users that have not been agreed to and are subject to further coordination between the parties concerned, are contained in Part B to the respective Chapters. These routes are normally coordinated between States or through ICAO/State ATS coordination meetings and/or by correspondence. Users who are not a member of a qualifying International Organization submit their route requests to the appropriate State(s) and these would be recorded in Chapter 4.

The flow charts below describe the processes for amending the BANP and Catalogue.

BANP AMENDMENT PROCESS



FLOW CHART FOR CHAPTER 5



*Note: — * Users who are not a member of a qualifying International Organization submit route requests to the appropriate State(s) (see BANP Flow Chart).*

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 Sub-Group	

Chapter 1: Routes in BANP – Implemented

APAC 99/1, 99/4, 00/1, 04/3 and 04/7, which have been approved but not incorporated in the First Edition of the BANP, are incorporated in this chapter.

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

A1	(DUBAI/SHARJAH)	
	JIWANI	A212
	KARACHI	PUPIS
	PRATAPGARH	PAGO PAGO
	CALCUTTA	NIUE
	BAGO	
	BANGKOK	A214
	UBON	PEKANBARU
	DANANG	BUSUX 0355.0S 06000.0E
	CAVOI 1713.5N 11000.0E	(PRASLIN)
	DAGON 1900.0N 11148.3E	
	HONG KONG	A215
	ELATO 2220.0N 11730.0E	PORT MORESBY
	MAKUNG	MERAUKE
	TAIBEI	HASANUDDIN
	KAGOSHIMA	KEVOK 0425.0S 11500.0E
	MIYAKE JIMA	
	(Partially implemented. See Chapter 2.)	
A201	LASHIO	A216
	AGARTALA	COOKTOWN
	RAJSHAHI	AKMIP 1200.0S 14448.6E
	MONDA 2521.00N 08626.25E	KIKORI
	PATNA	GUNNY 0500.00N 14400.00E
	LUCKNOW	RICHH 1711.49N 14249.12E
A202	BANGKOK	A217
	DONGHOI	DOPID
	HONG KONG	JAMESHEDPUR
	KAGOSHIMA	
	NIIGATA	A218
	CHITOSE	HARBIN
	(Partially Implemented See Chapter 2.)	(EKIMCHAN)
	(A203 in Chapter 2)	(MYS SHMIDTA)
		BARROW
A204	TESIO 4454.4N 14146.9E	
	REBUN	A219
	AKSUN 4545.1N 14054.3E	KARACHI
	(SELTI) (4713.3N 14013.3E)	NAWABSHAM
A209	ELATI 0200.0S 08957.7E	KALAT 2902.0N 06635.0E
	PORT HEDLAND	SERKA 2951.0N 06615.0E
A211	TARAKAN	KANDAHAR
	TAWAU	(TERMEZ)
		A220
		CLUKK 3605.0N 12450.0E
		TAHITI
		A221
		GUAM
		ROTA IS
		TINIAN IS
		SAIPAN

A222	GUAM POHNPEI KOSRAE KWAJALEIN	KISME 0500.0N 14805.4E	
(A223 in Chapter 2)			
A224	JOHOR BAHRU MERSING	A338	CHRISTCHURCH APORO 5000.0S 17120.0E BYRD
A326	SHIGEZHUANG OKTON 3911.2N 11653.5E TIANJIN MAKNO 3827.6N 12110.0E SANKO 3814.2N 12228.4E DONVO 3734.0N 12320.0E AKARA 3130.0N 12330.0E	A339	PERTH CURTIN ELBIS 0905.9S 12743.7E SHREE 0539.0N 13109.2E KEITH 2100.0N 13456.8E SABGU 2529.9N 13459.3E MAKDA 2716.0N 13551.2E TAXON 3000.0N 13714.5E MIYAKE JIMA
A327	PHUKET KADAP 0200.0S 08409.6E KALBI 0852.3S 07500.0E (PLAISANCE)	A340	RAYONG BISOR 1221.0N 10247.0E PHNOM PENH
A330	MEDAN MADURAI KAGLU 1231.2N 07200.0E	A341	KOTA KINABALU SANDAKAN ZAMBOANGA
A331	ZIGIE 2419.0N 15717.5W SEDAR 4530.4N 12643.0W	A342	COLD BAY OLCOT 5125.8N 16533.3E
A332	APACK 2402.8N 15619.3W AMITY 2626.0N 15229.0W HEMLO 4318.2N 12640.8W	A344	ROZAX 0245.6S 11140.0E SUMBAWA
A334	HAT YAI KOTA BHARU	A345	PYONGYANG GOLOT 4012.5N 12430.5E FENGCHENG KAIYUAN HAILAR KAGAK 4916N 11806E MANLI 4935N 11727E TELOK 4938N 11722E (CHITA)
A335	HOHHOT TUMURTAI ULAN BATOR (IRKUTSK)	A346	HAMILTON IS AUCKLAND
(Partially Implemented – See Chapter 2)		A348	MELBOURNE EAST SALE NISEP 4146.6S 15601.5E
A337	ADKAK 3354.0N 14210.0E TEGOD 2100.0N 14512.0E JUNIE 1132.5N 14706.3E		

A349	BANGKOK PATHEIN CALCUTTA	ZHOUKOU HEKOU LONGKOU LILING YINGDE SHILONG BEKOL 2232.6N 11408.0E CHEUNGCHAU NOMAN 2000.0N 11640.3E MUMOT 1930.4N 11714.5E AVMUP 1843.3N 11808.3E SAN FERNANDO CABANATUAN MANILA SAN JOSE ZAMBOANGA AMBON DARWIN ALICE SPRINGS LEIGH CREEK
A364	SHACHE KASHI KURUM 4006.0N 07407.0E	
A450	DENPASSAR HASANUDDIN KOROR YAP IS GUAM WAKE KATHS 2104.6N 16123.4W	
A451	(ADEN) ANGAL 1614N 06000E MUMBAI	
A452	GOLEM 1157.6N 06722.2E ELKEL 0149.0N 06911.0E (DIEGO GARCIA)	A462 CALCUTTA DHAKA
A453	(KANDAHAR) (ZAHEDAN) (BANDER ABBAS)	A463 MADURAI BIKOK 0817.0N 07836.0E COLOMBO COCOS IS PERTH
A456	AMRITSAR LAHORE MOLTA 3012.0N 07236.2E BINDO	A464 CHIANG MAI BANGKOK HAT YAI IPOH BATU ARANG KUALA LUMPUR SINGAPORE TINDAL TAROOM LORD HOWE IS AUCKLAND
A457	HAT YAI TAMOS 0632.2N 10024.0E ALOR SETAR PENANG KUALA LUMPUR JOHOR BAHRU	
A460	KUQA REVKI 4232.5N 8013.2E (KIRBALTABAY)	A465 CALCUTTA METIM 2055.0N 08750.0E VISHAKAPATNAM MADRAS COLOMBO
A461	DAWANGZHUANG WEIXIAN	

A466	(KABUL) SANAM 3305.0N 07003.0E DERA ISMAIL KHAN JHANG 3116.0N 07218.0E SAMAR 3120.8N 07434.0E ASARI 3048.3N 07509.6E DELHI	EREN INTIK 4341.5N 11155.0E SAINSHAND ULAN BATOR (KYZYL)
A467	BIRATNAGAR KATIHAR CALCUTTA	A576 MEDAN SINGAPORE DENPASAR CURTIN ALICE SPRINGS PARKES SYDNEY
	(A469 in Chapter 2)	
A470	HONG KONG MAGOG 2217.3N 11549.4E SHANTOU XINGLIN FUZHOU YUNHE TONGLU HANGZHOU LISHUI BANTA PIXIAN	A577 SHIKANG KADET 2100.0N 11934.0E
		A578 TONIK 3200.0N 14600.0E PHONPEI NAURU TARAWA NADI AUCKLAND
A473	JALALABAD NEPALGUNJ KATHMANDU	A579 SYDNEY NADI CARRP 1904.4N 15935.0W
	(To be implemented as L626 in June 2005 – See Chapter 2)	A580 AUCKLAND NAUSORI APIA
A474	DELHI BOMBAY MURUS 0600.0S 06319.7E (PLAISANCE)	A581 BAGO CHIANG MAI CHIANG RAI PONUK 2018.8N 10023.0E SAGAG 2111.5N 10137.4E BIDRU KUNMING MAGUOHE QIANXI HUAYUAN LINLI WUHAN
A575	PYONGYANG GOLOT 4012.5N 12430.5E FENGCHENG DONGYANGJIAO DAHUSHAN CHAOYANG ANDIN 4106.0N 11843.5E GUBEIKOU FENGNING	A582 JOMALIG CHINEN

	KAGOSHIMA IKISHIMA PUSAN SEOUL	A591	PASRO 1417.1N 16040.5E (AMOTT) 6054.0N 15121.6W
A583	HONG KONG SABNO 1859.1N 11550.7E MAVRA 1814.4N 11615.1E AKOTA 1706.6N 11651.6E IBOBI 1354.4N 11832.6E REKEL 1324.1N 11848.3E LEGED 1301.9N 11859.6E TOKON 1142.0N 11940.3E ZAMBOANGA	A592	QINDAO XUEJIADAO LATUX 3532.0N 12044.0E MUDAL 3651.0N 12322.0E AGAVO 3710.0N 12400.0E
A584	TONGA NIUE APIA FUNAFUTI NAURU KOSRAE	A593	PUPIS 1000.0S 17105.5W APIA VAVA'U TONGA TANGHEKOU XILIUHETUN SHIGEZHUANG POTOU PIXIAN WUXI SHANGHAI NANHUI FUKUE
	(Partially Implemented – See Chapter 2)		
A585	PALEMBANG JAKARTA PORT HEDLAND CEDUNA ADELAIDE	A594	MALE 0028.7S 07800.0E SUNAN 0200.0S 07927.1E DADAR PERTH
A586	INTOS 3722.00N 13120.00E PUSAN CHEJU ERABU NAHA	A595	FUKUOKA IKISHIMA CHEJU
A587	SUMBAWA ALICE SPRINGS	A596	HUAIROU HUAILAI TIANZHEN LIANGCHENG BAOTOU DENGKOU YABRAI
A588	DALIAN WAFANGDIAN DAGUSHAN DONGYANGJIAO WANGBINGOU KAIYUAN CHANGCHUN HARBIN	A597	GOBOH KUSHIMOTO MONPI 2100.0N 14036.0E GUAM NOUMEA AUCKLAND
A590	MANILA JOMALIG MINAMI DAITO MIYAKEJIMA KAGIS 3549.0N 14234.0E PABBA 3700.0N 14400.0E	A598	BRISBANE HONIARA NAURU MAJURO
		A599	CHITTAGONG LINSO 2322.5N 09855.0E

	GENGMA KUNMING LUXI BOSE LAIBIN GAOYAO PINGZHOU ZHULIAO WONGYUAN NANXIONG GANZHOU NANFENG SHANGRAO TONGLU NANXUN SHANGHAI	HAMI FUKANG URUMQI KUQA SHACHE HONGQILAPU PURPA 3656.5N 07524.5E GILGIT ISLAMABAD
B218		
B219		PENANG KOTA BHARU
B200	ENKIP 3547.0S 17730.0E FICKY 3133.6N 12123.5W	B220 BRISBANE PORT MORESBY
(B201 in Chapter 2)		B221 NINAS 3100.0N 12215.0E PINOT 3125.2N 12214.2E SAGUT 3500.0N 12040.3E XUEJIADAO
B202	UBON PAKSE PLEIKU	
B203	KATHMANDU BAGDOGRA GUWAHATI SILCHAR IMPHAL LASHIO	B222 VINIK 0838.6N 11613.8E KOTA KINABALU
B206	FUKANG ALETAI GOPTO 4905.5N 08728.0E (AKTASH)	B223 HAILAR QIAIHAR HARBIN
B209	JAMSHEDPUR KHAJURAHO TIGER 2828.8N 07214.9E	B326 HONIARA CHOKO 2022.6N 16053.0W
B210	BHUBANESWAR TASOP 2513.3N 07048.9E NAWABSHAH	B327 KATCH 5400.0N 13600.0W KODIAK CAPE NEWENHAM NULUK 5822.9N 17706.1W BAMOK 5625.5N 17249.3W (NIKOLSKOE)
(B212 in Chapter 2)		B328 EREN TAMURTAI TIANZHEN NANCHENGZI WEIXIAN
B213	LHASA CHENGDU	B329 PHNOM PENH PAKSE
B215	DAWANGZHUANG TAIYUAN YINCHUAN YABRAI JIUQUAN	B330 HONG KONG TAMOT PINGZHOU GAOYAO

	DOUJIANG QUIANXI FUJIACHANG JINGTAI YABRAI MORIT 4202.0N 10249.0E NIDOR 5029.4N 09125.8E (LIKAR)	B348	BHARATPUR BHAIRAHAWA LUCKNOW HENGCHUN POTIB 2100.0N 12045.5E LAOAG SAN FERNANDO MANILA TOKON 1142.0N 11940.3E PUERTOPRINCESA OSANU 0741.4N 11717.6E KOTA KINABALU BRUNEI KAMIN 0235.1N 10855.7E SABIP 0209.7N 10750.5E TOMAN 0121.5N 10547.0E
B331	CHEUNG CHAU KAPLI 2110.0N 11730.0E HENGCHUN		
B332	SANKO 3814.2N 12228.4E TOMUK 3843.0N 12400.0E PYONGYANG SINSONGCHON SONDO 3947.0N 12713.6E KANSU 3838.0N 13228.5E	B349	BALI POTIP 2141.6S 12508.0E
B333	AUCKLAND PORT MORESBY	B450	SYDNEY LORD HOWE IS NORFORK IS
B334	BEIJIN TANGHEKOU FENGNING TONGLIAO	B451	HARBIN ASUKI 4318.0N 12946.0E BISUN 4314.0N 13111.8E (VLADIVOSTOK) IGROD 4139.0N 13647.0E KADBO 3914.0N 13745.0E
B335	KUALA LUMPUR PEKANBARU POSOD 0329.5S 09409.9E PEDPI 1316.6S 07500.0E (PLAISANCE)	B452	TONIK 3200.0N 14600.0E HONIARA NADI
B337	(TAKHTOYAMSK) ANIMO 4508.3N 14337.8E ASAHIKAWA	B453	MIDDLETON IS KATCH 5400.0N 13600.0W DAASH 4226.5N 12600.1W
B338	MERSING TEKONG ANITO 0017.0S 10452.0E	B454	PAGO PAGO RAROTONGA TONYS 3019.9N 12249.2W
B340	TRIVANDRUM BIKOK 0817.0N 07836.0E COLOMBO LEARMONTH MOUNT HOPE ADELAIDE	B455	VAVA'U NISEX 1547.3S 17136.4W
B344	(PLAISANCE) LELED 1116.5S 07500.0E ELATI 0200.0S 08957.7E KETIV 0042.0S 09200.0E MEDAN	B456	MADANG WEWAK VANIMO JAYAPURA
B345	KATHMANDU		(Partially Implemented – See Chapter 2)
		B457	(IZKI) BELGAUM

	BELLARY	B472	LIPA ILO ILO COTABATO SELSO 0400.0N 12616.0E TOREX 0724.0N 13335.0E
B459	BOMBAY CLAVA 0134.0N 06000.0E (PRASLIN)		GOVE NORMANTON
B462	MACKAY HAMILTON IS. PORT MORESBY KADAB 0458.0S 14100.0E BIDOR 0400.0S 13130.0E TACLOBAN MANILA CABANATUAN LAOAG MIYAKO JIMA OKINAWA	B473	LIPA ROXAS CAGAYAN-DE-ORO DAVAO SADAN 0400.0N 12805.0E CAIRNS
		B474	SYDNEY SANTO NANUMEA CHOKO 2022.6N 16053.0W
B463	KOTA BHARU DAWEI BAGO MANDALAY LASHIO		
B465	CALCUTTA CHITTAGONG MANDALAY LUANG PRABANG HANOI	B480	(RAZDOLITE) LETBI 5011.9N 10330.6E BULGAN MORIT 4202.0N 10249.0E
B466	JOHOR BAHRU BATU ARANG MADRAS BOMBAY	B575	AUCKLAND TONGA PAGO PAGO
B467	KANGWON INTOS 3722.0N 13120.0E KANSU 3838.0N 13228.5E NULAR 4059.2N 13411.0E (TEKUK) 4241.0N 13527.4E	B576	TAIBEI CHEJU SEOUL
B469	SINGAPORE JAKARTA CARNARVON GERALDTON PERTH CAIGUNA WHYALLA GRIFFITH SYDNEY	B577	NADI WALLIS IS APIA PAGO PAGO FICKY 3133.5N 12123.5W
B470	SINGAPORE PANGKALPINANG JAKARTA	B578 B579 B580	BRISBANE NOUMEA TAHITI DELHI NAGPUR VISHAKHAPATNAM PORT BLAIR PHUKET LANGKAWI PENANG SYDNEY

	NOUMEA CHOKO 2022.6N 16053.0W		AGARTALA GUWAHATI
B581	NADI FICKY 3133.5N 12123.5W	B595	TAHITI KONA
B583	BRUNEI DARWIN	B596	RAROTONGA DOVRR 1843.0N 15740.0W
B584	DENPASAR ELANG 0056.0S 11449.5E KOTA KINABALU	B597	ERABU TANEGASHIMA SHIMIZU
B586	NOUMEA SEKMO KAPKI PORT MORESBY GUAM OMLET 2100.0N 14259.2E TATEYAMA	B598	DARWIN THURSDAY ISLAND PORT MORESBY KAPKI 1014.9S 14817.7E HONIARA PORT VILA NADI NAUSORI TONGA RAROTONGA
B587	ST GEORGE KOWANYAMA OPABA 0851.5S 13804.0E TIMIKA BIAK RENAN 0330.0N 13416.6E ENDAX 1415.0N 13000.0E ATVIP 2100.0N 12422.0E HUALIEN	B599	NOUMEA NADI TAHITI
		G200	CHRISTMAS IS. COCOS IS (PLAISANCE)
B589	PORT MORESBY KAPKI KIRIWINA BUKA MAJURO	G202	(KANDAHAR) ZHOB RAHIM YAR KHAN
B590	NOUMEA PORT VILA NAURU	G203	MIHO PUSAN
B591	SHANGHAI TAIBEI HENCHUN	G204	ELNEX SHENGXIAN METAN SHANGHAI
		G205	HAMILTON IS. GURNEY JUNIE
B592	KOTA KINABALU JAKART	G206	DILARAM KABUL SABAR PURPA
B593	CALCUTTA COMILLA	G208	MUMBAI KARACHI PANJGUR
	(Partially implemented – See Chapter 2)		

	(ZAHEDAN)		NAUSORI
G209	LAERMONT CHRISTMAS ISLAND PALEMBANG		NIUE AITUTAKI TAHITI (LIMA)
G212	(KHABAROVSK) ARGUK 4753.5N 13439.4E HAIQING JIAMUSI HARBIN TONGLIAO GUBEIKOU QINBAIKOU NANCHENGZI TAIYUAN YIJUN SANYUAN XIAOYANZHUANG NINGSHAN WUFENGXI FUJIACHANG WEINING MAGUOHE KUNMING	G224	NORFORK IS NADI PAGO PAGO TAHITI ISLA DE PASCUA (SANTIAGO)
		G325	COLOMBO TIRUCHCHIRAPPALLI
		G326	BALI TENNANT CREEK BRISBANE
		G327	NANHUI NINAS 3100.0N 12215.0E AKARA 3130.0N 12330.0E
		G329	BRISBANE NORFORK IS
G213	BIAK BEKUB 0350.0N 13845.0E GUAM	G330	SHANGHAI POMOK NANTONG
G214	JIWANI PANJGUR RAHIM YAR KHAN MOLTA 3012.0N 07236.2E		GURNI 3209.2N 12058.5E PIMOL 3215.0N 11944.0E
G215	DUTCH HARBOR OLCOT 5125.8N 16533.3E	G331	PHUKET PADET DAWEI
G219	VIRUT 0230.8N 10402.7E TEKONG	G332	TANGHEKOU CHAOYANG
G221	BAOLONG HAIKOU SAMAS SIKOU	G334	KUALA LUMPUR TIOMAM BUNTO 0242.0N 10600.0E DOTAS 0201.1N 10820.5E SIBU
G222	SAPDA BROOME AYERS ROCK PARKES	G335	KATHMANDU JANAKPUR PATNA
G223	TATEYAMA TONIK 3200.0N 14600.0E NAURU NADI	G336	DHANBAD PATNA SIMRA KATHMANDU
		G337	PERTH

	CHRISTMAS IS PEKANBARU		PADLA 0446.1N 07800.0E COLOMBO
G339	PUSAN FUKUOKA KAGOSHIMA TANEGASHIMA PAKDO GUAM	G455	SHANGHAI PINOT 3125.2N 12214.2E AKARA 3130.0N 12330.0E
		G457	DOVRR 1843.0N 15740.0W ELLMS 0500.0S 16704.1W PAGO PAGO
G340	QINGBAIKOU HUAILAI		FAROA 2500.0S 17502.3W DIVSO 3452.3S 17624.5E
G341	CHANGCHUN ASUKI 4318.0N 12946.0E	G458	BANGKOK SURAT THANI PHUKET
G342	CAIRNS HONIARA	G459	CAIRNS TIMIKA
G344	COMFE 3624.0N 14618.0E CUTEE 4624.9N 16218.6E CUDDA 5647.9N 16018.1W	G460	KUCHING SIBU BINTULU BRUNEI
G345	UNTAN CHANGZHOU LISHUI		(G461 in Chapter 2)
G346	KIMCHAEK NULAR 4059.2N 13411.0E IGROD 4139.0N 13647.0E	G462	(IZKI) TRIVANDRUM COLOMBO JAKARTA
G347	AUCKLAND POPIR 2500.0S 17804.8W PADDI 1825.7N 15854.8W		INDRAMAYU MADIN 0617.9S 11023.0E CUCUT 0617.7S 11106.0E
G348	PARO BAGDOGRA		SURABAYA BALI DARWIN
G424	(DAR ES SALAAM) VUTAS 0912.0N 06000.0E ALATO 1340.7N 06344.0E	G463	RAJSHAHI DHAKA CHITTAGONG BAGO
G450	(MOGADISHU) BOMBAY NAGPUR CALCUTTA		BETNO 1505.8N 09812.7E BANGKOK
G452	(ZAHEDAN) RAHIM YAR KHAN TIGER 2828.8N 07214.9E DELHI	G464	PONTIANAK ROZAX 0245.0S 11140.0E BALI KARRATHA BALLIDU PERTH
G453	KUALA LUMPUR KOTA BHARU		
G454	(PLAISANCE) BOBOD 0600.0S 06941.1E	G465	(PRASLIN) MALE COLOMBO PORT BLAIR

	DAWEI BANGKOK		PERTH
G466	HO CHI MINH PHUCAT HENGCHUN	G579	JAKARTA PALEMBANG SINGAPORE JOHOR BAHRU
G467	LUBANG JOMALIG GUAM	G580	TOMAN 0121.5N 10547.0E NIMIX 0124.9N 10759.2E ATETI 0125.7N 10830.1E
G468	PENANG MEDAN		KUCHING MIRI BRUNEI
G469	PORT HEIDEN ST PAUL IS NYMPH 5324.5N 16814.4E		KOTA KINABALU
G470	XIANYANG FENGHUO CHANGWU JINGNING JINGTAI	G581	HONG KONG ELATO 2220.0N 11730.0E HENGCHUN MIYAKO JIMA
G471	SHILONG LONGMEN GANGZHOU	G582	BISIS 2647.0N 12633.0E ERABU MIYAKE JIMA
G472	KARACHI AHMEDABAD NAGPUR BHUBANESHWAR PATHEIN BAGO	G583	PUGER 0324.1N 10017.6E BATU ARANG PEKAN
G474	BANGKOK MENAM 1357.3N 10247.7E SOURN 1345.5N 10600.0E ANINA 1359.0N 10725.0E PHUCAT	G584	EMMONAK BESAT 5945.0N 17925.1W (UST-BOLSHERETSK) BISIV 4456.3N 14412.3E MONBETSU
G575	TAHITI RANGIROA FICKY 3133.5N 12123.5W	G585	KUALA LUMPUR PEKAN KUCHING
G576	CHEER 5310.0N 14000.1W SPONJ 4992.0N 13005.1W	G586	MIHO POHANG SEOUL
G578	GURAG 2100.0N 12725.0E DILIS 1431.0N 12600.0E TACLOBAN MACTAN ZAMBOANGA DENPASAR PORT HEDLAND PARABURDOOD	G587 G588	YINGDE ERTANG
		G587	TAIBEI PABSO 2538.0N 12252.0E BULAN 2704.0N 12400.0E
		G588	MOOREN KHOVD TEBUS 4725.1N 09027.7E TESAN 4701.7N 08947.8E FUKANG
			(G589 in Chapter 2)

G590	SIMRA VARANASI KHAJURAHO BHOPAL INDORE BODAR	2236.3N 07413.3E	R204	KEITH KALIN LIDIT HORN IS CAIRNS	2100.0N 13456.5E 0000.0N 14200.0E 0918.0S 14220.0E
G591	CAIRNS NOUMEA NORFORK IS AUCKLAND		R205	ANARAK BIRJAND	
G593	FUNAFUTI NAUSORI NIUE RAROTONGA		R206	PORT HEDLAND CHRISTMAS IS JAKARTA	
G594	TIAMU TAHITI RAROTONGA AUCKLAND SOLIT	2355.0S 07500.0E (PLAISANCE)	R207	VIENTIANE NAN CHIANG MAI MANDALAY	
G595	(TAHITI) SYDNEY MABAD	2648.4S 07500.0E (PLAISNACE)	R208	KUALA LUMPUR KUALA TRENGGANU KANTO	0649.9N 10348.3E
G597	DONVO AGAVO SEOUL KANGNUNG MIHO OTSU KOWA OSHIMA VENUS	3734.0N 12320.0E 3710.0N 12400.0E 3618.2N 14042.1E	R209	TATOX LANGKAWI	0857.0N 09702.0E
G598	LUCKNOW APIPU SIMARU	2658.6N 08300.0E	R210	PORT MORESBY CAIRNS	
G599	AUCKLAND TAHITI		R211	KASMI DAIGO NIIGATA KADBO AVGOK VELTA	3601.3N 14040.3E 3914.0N 13745.4E 4336.0N 13815.0E 4529.0N 13710.0E
R200	PINGZHOU LIANSHENGWEI BIGRO ZHANJIANG		R212	(DIEGO GARCIA) GUDUG PIBED	0704.6S 07500.0E 0520.2S 09044.0E
R201	BANGKOK UTAPAO		R215	CHIANG RAI NAN LUANG PRABANG	
R203	COLOMBO PHUKET			(R216 in Chapter 2)	
			R217	NODAN SENDAI NIIGATA	4025.0N 14500.0E
			R219	(SHARJAH) MAROB BOMBAY	2225.6B 06309.3E
			R220	DAIGO IWAKI NANAC NIPPI	3854.2N 14313.9E 4942.6N 15920.8E

	NODLE	6117.0N 15200.0W		NINNA	5455.7N 17158.8E
R221	MERSING PULAU TIOMAN		R339	HONG KONG VIKAP 2131.3N 11332.0E SIKOU 2050.6N 11130.0E	
R222	AVGOK 4336.0N 13815.0E (YEDINKA)			ZHANJIANG NANNING	
R325	KATHMANDU JANAKPUR DUMKA 2411.0N 08721.3E CALCUTTA PHUKET HAT YAI IPOH JOHOR BAHRU		R340	BOSE AMBON WALGETT	
R326	NORFOLK IS CHRISTCHURCH		R341	KODIAK NINNA 5455.7N 17158.8E	
R327	GISBORNE FAROA		R342	MANADO BONDA 0200.0N 12451.2E PEDNO 0400.0N 12521.0E	
R328	KARACHI MINAR 2350.0N 06800.0E SAPNA 2330.0N 06750.0E BILAT 2058.4N 06800.0E MUMBIA		R343	GENERAL SANTOS DAVAO NANXIANG WUXI LISHUI HEFEI WUHAN LONGKOU LAOLIANGCANG	
R329	KAGLU 1231.2N 07200.0E MALE GAN (DIEGO GARCIA)		R344	DARONGJIANG LAIBIN NANNING KATHMANDU BIRATNAGAR	
R330	SHEMYA POWAL 5024.3N 16530.8E			KATIHAR RAJSHAHII	
R332	MAJURO BONRIKI AKUMO 0614.9S 17535.5E ROTUMA NADI			(R345 in Chapter 2)	
	(R333 in Chapter 2)		R346	TOWNSVILLE PORT MORESBY	
R334	RAYONG KOH KONG PHNOM PENH		R347	NIIGATA SADO EKVIK 3944.7N 13636.5E IGROD 4139.0N 13647.0E (VELTA) 4529.0N 13710.0E	
	(R335 in Chpater 2)		R348	KADAP 0200.0S 08409.6E LATEP 0610.3S 07500.0E (DIEGO GARCIA)	
R336	ADAK CARTO 4840.5N 16847.0E		R349	LEMOKE 1000.0N 10302.2E RASER 1000.0N 10506.0E HO CHI MINH	
R337	TACLOBAN KOROR				
R338	NOME				

R450	KIETA HONIARA		R467	KUALA LUMPUR GUNIP 0429.9N 09931.9E
R451	ADAK OGDEN 4929.2N 16102.3E		R468	BOMBAY VISHAKHAPATNAM BANGKOK BOKAK 1257.5N 10230.0E PHNOM PENH SAPEN 1102.2N 10611.0E HO CHI MINH
R452	SONDO 3947.0N 12713.6E HAMUN 3955.1N 12731.1E KIMCHAEK UAMRI 4217.6N 13041.8E (TEKUK) 4241.0N 13527.4E			
R453	NADI APIA		R469	PEKANBARU SINGAPORE
R455	PONTIANAK KUCHING		R470	VIENTIANE UDON THANI KHON KAEN
R456	(IZKI) BOTAN 2006.6N 06021.8E MALE MABIX 0315.0N 09454.0E		R472	CALCUTTA RAJSHAHI GUWAHATI
R457	TRIVANDRUM MALE		R473	LILING NANXIONG WONGYUANG ZHULIAO PINGZHOU TAMOT 2221.5N 11352.0E
(R459 in Chapter 2)				
R460	DELHI LUCKNOW VARANASI GAYA CALCUTTA		R474	GAOYAO NANNING LONGZHOU HANOI VIENTIANE BANGKOK
R461	BOMBAY BELGAUM COIMBATORE COLOMBO MEDAN KUALA LUMPUR		R576	DENNS 2222.0N 15353.0W DINTY 3329.0N 12235.0W
R462	(SEEB) DENDA 2442.5N 06054.8E JIWANI KARACHI DELHI		R577	EBBER 2143.0N 15309.0W ELKEY 3241.0N 12203.0W
R463	APACK 2402.6N 15619.2W ALCOA 3750.0N 12550.0W		R578	FITES 2049.0N 15300.0W FICKY 3133.5N 12123.5W
R464	BITTA 2332.0N 15529.0W BEBOP 3700.0N 12500.0W		(R579 in Chapter 2)	
R465	CLUTS 2300.0N 15439.0W CLUKK 3605.0N 12450.0W		R580	OATIS 3800.0N 14345.0E OMOTO 4859.7N 16000.7E AMOTT 6053.9N 15121.8W
(R466 in Chapter 2)				
			R581	CALCUTTA MONDA 2521.0N 08626.4E SIMARA
			R582	NORFOLK IS RAROTONGA

R583	TAIBEI BISIS 2647.1N 12633.1E OKINAWA MINAMIDAITO SABGU BUNGO	RAJSHAHI SAIDPUR COOCH BEHAR BOGOP PARO
R584	OKINAWA KEITH 2100.0N 13456.5E GUAM TRUK POHNPEI KWAJALEIN MAJURO JOHNSTON IS CHOKO 2022.9N 16053.2W	R599 KIETA GIZO HONIARA PORT VILA WHANGAREI AUCKLAND
R585	CITTA 2818.9N 14507.2W GATES 3412.7N 12303.9W	
RNAV ROUTES		
R587	BRISBANE PORT VILA	L500 (SANTIAGO) AUCKLAND
R588	PHUKET RELIP KAKET PHNOM PENH PLEIKU	L501 (RIO GALLEGOS) AUCKLAND
R590	AMBON COTABATO	L502 ISLA DE PASCUA (LOS ANGELES)
R591	CAPE NEWENHAM AKISU 4734.3N 16119.3E ABETS 3605.0N 14425.0E	L503 BRISBANE IGEVO 3636.5S 16300.0E CHRISTCHURCH
R592	BALI ONSLOW PERTH	L508 CHRISTCHURCH MELBOURNE
(R593 in Chapter 2)		L513 PERTH HOBART AUCKLAND
R595	ANPU MIYAKO JIMA KEITH 2100.0N 13456.5E GUAM	L521 SYDNEY AUCKLAND
R596	HENGCHUN TIDEL 1912.2N 13000.0E GUAM	L625 LUSMO 0333.7N 10655.7E AKMON 0812.8N 11013.4E ALDAS 1056.9N 11212.3E ANOKI 1222.0N 11315.0E ARESI 1358.4N 11427.0E
R597	CABANATUAN SARSI 1642.0N 12316.9E SKATE 1716.7N 12423.0E	AKOTA 1706.6N 11651.6E AVMUP 1843.3N 11808.3E POTIB 2100.0N 12045.5E
R598	CALCUTTA	L628 LUBANG

	IBOBI	1354.4N 11832.6E	M750	KILOG	2152.5N 11441.6E
	GUKUM	1356.8N 11637.2E		ENVAR	2159.5N 11730.0E
	ARESI	1358.4N 11427.0E		MOLKA	2639.5N 12400.0E
	MESOX	1358.4N 11427.0E		MOMPA	3050.5N 12955.1E
	DAMEL	1358.7N 11130.6E		MANEP	3242.9N 13340.0E
	VEPAM	1358.0N 11000.0E		KUSHIMOTO	
	PHUCAT		M751	MERSING	
L629	PEKAN			PEKAN	
	DOLOX	0448.7N 10522.9E		KOTA BHARU	
L635	PEKAN		M753	REGOS	1200.0N 10035.1E
	MABLI	0417.3N 10612.9E		BANGKOK	
L637	BITOD	0715.3N 10612.9E		ENREP	0452.4N 10414.8E
	TANSONNHET			BITOD	0715.3N 10407.3E
L642	CHEUNG CHAU		M754	PHUQUOC	
	EPDOS	1900.0N 11333.3E		PHNOM PENH	
	ENBOK	1833.4N 11329.5E		BRUNEI	
	EGEMU	1700.0N 11217.0E		VINIK	0838.6N 11613.8E
	VEPAM	1358.0N 11000.0E		TENON	0915.3N 11616.5E
	PHANTHIET			LULBU	1104.7N 11624.4E
	CONSON IS			NOBEN	1234.4N 11631.1E
	ESPOB	0700.0N 10533.4E		GUKUM	1356.8N 11637.2E
	ENREP	0452.4N 10414.8E		AKOTA	1706.6N 11651.6E
	MERSING		M758	PEKAN	
L643	TANSONNHET			LUSMO	0333.7N 10655.7E
	CONSON			TERIX	0415.4N 10934.7E
UM501	BHUBANESHWAR		M759	OLKIT	0450.1N 11149.1E
	PHUKET			BRUNEI	
UM551	DONSA	1435.3N 06511.6E	M761	PEKAN	
	ANGAL	1614.1N 06000.1E		BOBOB	0222.1N 10706.1E
	(AVAVO)	1646.3N 05526.1E		SABIP	0209.7N 10750.5E
M625	MELBOURNE			AGOBA	0158.7N 10830.0E
	WELLINGTON			KUCHING	
M636	SYDNEY		M765	KOTA BHARU	
	WELLINGTON			IGARI	0656.2N 10335.2E
M639	IGEVO	3636.5S 16300.0E		BITOD	0715.3N 10407.3E
	WELLINGTON			CONSON	
M643	HOBART			DAGAG	0927.8N 10826.5E
	CHRISTCHURCH		M767	MAPNO	1013.1N 11020.1E
				JOMALIG	
				TOKON	1142.0N 11940.3E
				TENON	0915.3N 11616.5E
				TEGID	0857.2N 11551.6E

	TODAM	0631.7N 11235.4E		LUSMO	0333.7N 10655.7E
M768	BRUNEI			LAGOT	0716.6N 11131.5E
	DOGOG	0525.3N 11407.5E		LAXOR	0950.3N 11447.9E
	ASISU	0559.9N 11319.6E		LULBU	1104.7N 11624.4E
	TODAM	0631.7N 11235.4E		LEGED	1301.9N 11859.6E
	LAGOT	0716.6N 11132.5E		LUBANG	
	AKMON	0812.8N 11013.4E	N891	PAPA UNIFORM	
	MAXON	0849.5N 10921.3E		ENREP	0452.4N 10414.8E
	DAGAG	0927.8N 10826.5E		IGARI	0656.2N 10335.2E
	TANSONNHAT			SAMOG	0800.0N 13014.6E
M771	MERSING			RAYONG	
	DOLOX	0448.7N 10522.9E		BANGKOK	
	DUDIS	0700.0N 10648.7E	N892	HENGCHUN	
	DAGAG	0927.8N 10826.5E		KABAM	2100.0N 11925.7E
	DOXAR	1220.0N 11022.7E		MUMOT	1930.4N 11714.5E
	DAMEL	1358.7N 11130.6E		MAVRA	1814.4N 11615.1E
	TERIX	0415.4N 10934.7E		MIGUG	1516.4N 11400.0E
	BOBOB	0222.1N 10706.1E		MESOX	1358.8N 11302.7E
	TOMAN	0121.5N 10547.0E		MUGAN	1222.0N 11152.3E
N750	SYDNEY			MAPNO	1013.1N 11020.1E
	CHRISTCHURCH			MOXON	0849.5N 10921.3E
N759	MELBOURNE			MELAS	0704.9N 10808.4E
	AUCKLAND			MABLI	0417.3N 10612.9E
M774	AUCKLAND			MERSING	
	SYDNEY				
N875	PONTIANAK				
	ARUPA	0031.7N 10848.7E			
	NIMIX	0124.9N 10759.2E			
	BOBOB	0222.1N 10706.1E			
	ENREP	0452.4N 10414.8E			
N884	MERSING				

Chapter 2: Route in BANP – Not Implemented

The segments which have not been implemented are shown by **bold** significant points, and indicated with coordinates and the FIR names.

ATS ROUTES	SIGNIFICANT POINTS	COORDINATES	FIR	REMARKS
A1 (partially implemented)	DUBAI/SHARJAH JIWANI (JI) KARACHI (KC) PRATAPGARH (PRA) CALCUTTA (CEA) BAGO (BGO) BANGKOK UBON DANANG CAVOI DAGON HONG KONG ELATO MAKUNG TAIBEI KAGOSHIMA MIYAKE JIMA	2503.8N 06147.7E 2454.6N 06710.6E 2401.8N 07445.0E 2238.7N 08827.0E 1719.2N 09631.0E	Karachi Karachi Mumbai Kolkata Yangon	
A202* (partially implemented)	BANGKOK DONGHOI HONG KONG (CH) KAGOSHIMA (HKC) NIIGATA (GTC) CHITOSE (CHE)	2213.2N 11401.8E 3141.8N 13035.0E 3757.5N 13906.9E 4242.0N 14141.2E	Hong Kong Tokyo Tokyo Tokyo	
A203*	HONG KONG (CH) TAIBEI (APU)	2213.2N 11401.8E 2510.6N 12131.3E	Hong Kong Taipei	
A218*	HARBIN (HRB) (EKIMCHAN) (QA) (MYS SHMIDTA) BARROW	4537.4N 12615.6E	Shenyang	
A223*	RUSAR FUKUOKA (DGC)	2951.7N 12750.4E 3340.6N 13023.4E	Naha Tokyo	
A335*	HOHHOT TUMURTAI (TMR) ULAN BATON (UDA) (IRKUTSK)	4150.7N 11309.0E 4752.1N 10644.0E	Beijing Ulan Batar	

ATS ROUTES	SIGNIFICANT POINTS	COORDINATES	FIR	REMARKS
A469* (Implemented as L643, pending BANP Amendment)	HO CHI MINH (TSN) CONSON IS (CS)	1049.0N 10638.7E 0843.8N 10637.9E	Ho Chi Minh Ho Chi Minh	
A473* (To be implemented in June 2005 as L626)	JALALABAD (JAL) NEPALGUNJ (NGJ) KATHMANDU (KTM)	2741.7N 07939.3E 2806.1N 08139.1E 2740.5N 08521.0E	Delhi Kathmandu Kathmandu	
A584* (Proposed Amendment to be submitted to delete the segment not implemented)	TONGA NIUE APIA FUNAFUTI NAURU (NI) KOSRAE (UKS)	0032.6S 16655.3E 0521.1N 16257.4E	Nauru Oakland Oceanic	
B201* (Proposed Amendment to be submitted to delete from the BANP)	NIUE (NU) AUCKLAND (AA)	1904.4N 16955.0E 3700.3N 17448.8E	Fuji New Zealand	
B212* (Co-ordination ongoing. Target implementation June 2006)	KANGNUNG NIGATA (GTC)	3757.5N 13906.9E	Incheon Tokyo	
B456* (Partially Implemented from WEWAK DCT to JAYAPURA proposed amendment to be submitted for the entire route)	MADANG (MAG) WEWAK (WK) VANIMO (VNO) JAYAPURA (JPA)	0512.7S 14546.6E 0335.0S 14340.6E 0240.7S 14118.2E 0235.3S 14031.9E	Port Moresby Port Moresby Port Moresby Biak	
B591* (Consider for future implementation)	SHANGHAI (SHA) TAIBEI (APU) HENGCHUN	3112.0N 12119.9E 2510.6N 12131.3E	Shanghai Taipei	

ATS ROUTES	SIGNIFICANT POINTS	COORDINATES	FIR	REMARKS
G461* (Amendment Proposal to be submitted)	JAKARTA (DKI) CIREBON (CA) SEMARAN BLORA SURABAYA	0557.7N 10702.1E 0641.9N 10833.6E	Jakarta Jakarta	
G473* (Implementation on-going)	BAGO MAKAS PHITSANULOK (PSL) DANANG (DAN) LUBANG (LBG)	1646.2N 10017.5E 1603.2N 10811.9E 1351.2N 12006.4E	Thailand Ho Chi Minh Manila	
G589* (Implemented as B467. Amendment Proposal to delete G589 to be submitted)	AVGOK KANGNUNG	4336.1N 13814.8E	Vladivostock Inchoeon	
R216*	URUMQI (ALMA ATA)	4354.4N 08728.5E (4322.5N 07705.2E)	Urumqi Kazakhstan	
R333*	DOTMI AKERO (Now NOMAN)	2243.1N 11610.1E 2002.7N 11642.5E	Guangzhou Hong Kong/Manila	
R335*	MAGOG MAKUNG (MKG)	2217.3N 11549.4E 2335.7N 11938.2E	Hong Kong Taipei	
R345* (New Route will be implemented. Amendment Proposal to delete R345 to be submitted)	VIENTIEN (VTN) TAKHAEK PAKSE (PAK) STREUNG TRENG (ST) RUPED	1800.6N 10232.4E ? 1511.8N 10544.3E 1331.5N 10600.9E 1111.0N 10548.2E	Vientiane ? Vientiane Phnom Penh Phnom Penh	
R459* (To be implemented as L504. Target implementation date 12 May 2005)	MANADO (MWB) BALIKPAPAN (BPN) ELANG PONTIANAK (PNK) MINOS TANJUNG PINANG (TI)	0119.4N 12457.3E 0114.7N 11656.4E 0055.6N 11450.1E 0004.7N 10922.5E 0000.0 10901.7E 0055.2N 10431.6E	Ujung Pandang Bali Bali Jakarta Singapore	

ATS ROUTES	SIGNIFICANT POINTS	COORDINATES	FIR	REMARKS
R466* (Implemented as R446. Subject to BANP amendment)	(YUZHNO-SAKHALINSK) ANIMO	4511.9N 14340.8E	Yuzhno-sakhalinsk Yuzhno-sakhalinsk/To kyo	
R579* (To be implemented 12 May 2005 with proposed route extension)	PADANG (PDG) PEKANBARU (PKU) MALACCA (MC)	0052.3N 10021.2E 0025.5N 10126.5E	Jakarta Jakarta Kuala Lumpur	
R593* (Amendment Proposal submitted)	BOMBAY (BBB) (HAIMA)	1905.1N 07252.5E	Mumbai Oman	

* Those routes were listed in the APANPIRG List of Deficiencies.

DETAILED DESCRIPTION OF ROUTES IN BANP – NOT IMPLEMENTED**ATS ROUTE NAME: A1**

Requested by :

ENTRY/EXIT POINT XXXXX	CHART
ROUTE DESCRIPTION (DUBAI/SHARJAH) .. JIWANI (JI) .. KARACHI (KC) .. PRATAPGARH (PRA) .. CALCUTTA (CEA) .. BAGO (BGO) .. BANGKOK (BKK).. UBON .. DANANG .. CAVOI 1713.5N 11000.0E .. DAGON 1900.0N 11148.3E .. HONG KONG .. ELATO 2220.0N 11730.0E .. MAKUNG .. TAIBEI .. KAGOSHIMA .. MIYAKE JIMA	Under development
FLIGHT LEVEL BAND	
PRIORITY: HIGH/MED/LOW	

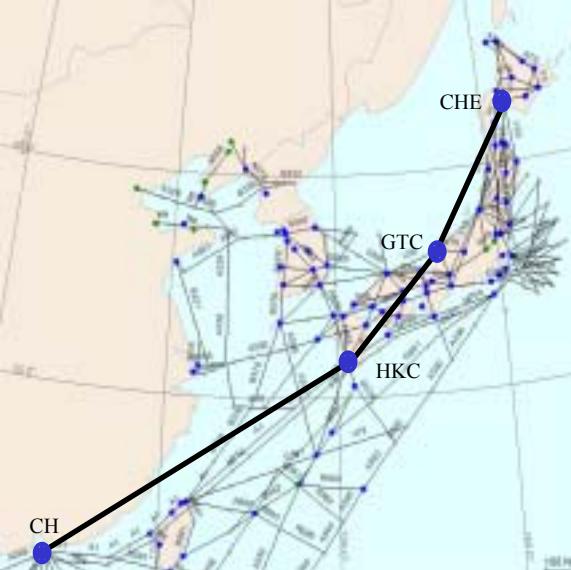
Action Required	States continue to coordinate to submit proposals for amendments. ICAO has circulated proposal for amendment as APAC 05/23.
-----------------	--------------------------------------------------------------------------------------------------------------------------------

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _x

Remarks: A1 has been replaced by A791 between Kolkata VOR in India and Hail VOR in the Middle East, and by L507 between LIMLA and Kolkata VOR. The ATS route A1 applies only east of LIMLA on the Yangon and Bangkok FIRs boundary.

ATS ROUTE NAME: A202

Requested by :

ENTRY/EXIT POINT	CHART
ROUTE DESCRIPTION Bangkok .. Donghoi .. Hong Kong (CH) .. Kagoshima (HKC) .. Niigata (GTC) .. Chitose (CHE)	
FLIGHT LEVEL BAND	
PRIORITY: HIGH/MED/LOW	

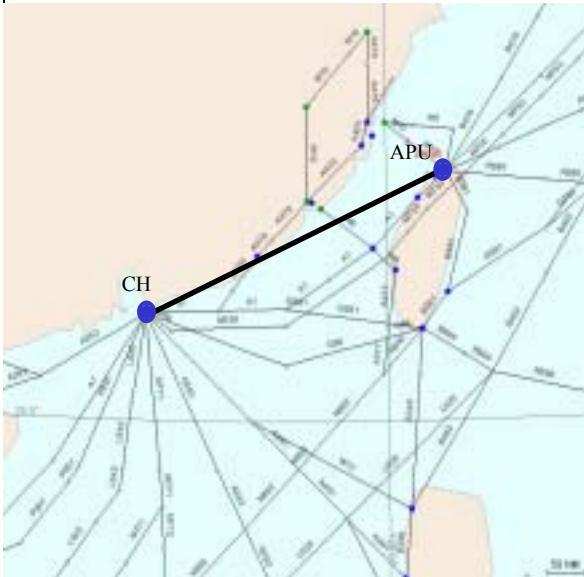
Action Required	States continue to coordinate to retain or submit proposal for deletion from BANP.
.	

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _x

Remarks: Segment between Bangkok and Donghai implemented; Segment between Hong Kong and Chitose is not possible and cannot be implemented at present. The requirement is being served by other available ATS route. The direct route requirement will be kept under review.

ATS ROUTE NAME: A203

Requested by :

ENTRY/EXIT POINT XXXXX	CHART
ROUTE DESCRIPTION Hong Kong (CH) .. Taipei (APU)	
FLIGHT LEVEL BAND	
PRIORITY: HIGH/MED/LOW	

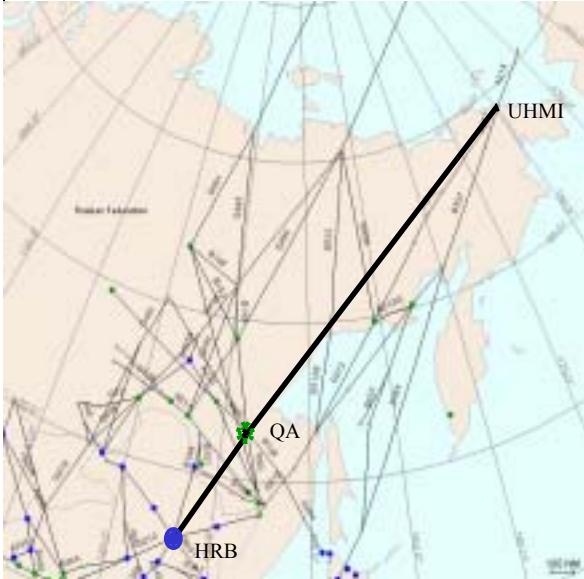
Action Required	States continue to coordinate to submit proposals for deletion or to retain in BANP.
.	

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _X

Remarks: The route between Hong Kong and Taipei is not possible and cannot be implemented at present. The requirement is being served by other available ATS route. The direct route requirement will be kept under review.

ATS ROUTE NAME: A218

Requested by :

ENTRY/EXIT POINT XXXXX	CHART
ROUTE DESCRIPTION Harbin (HRB) .. Ekimchan (QA) .. Mys Shmidta (UHMI) .. Barrow	
FLIGHT LEVEL BAND	
PRIORITY: HIGH/MED/LOW	

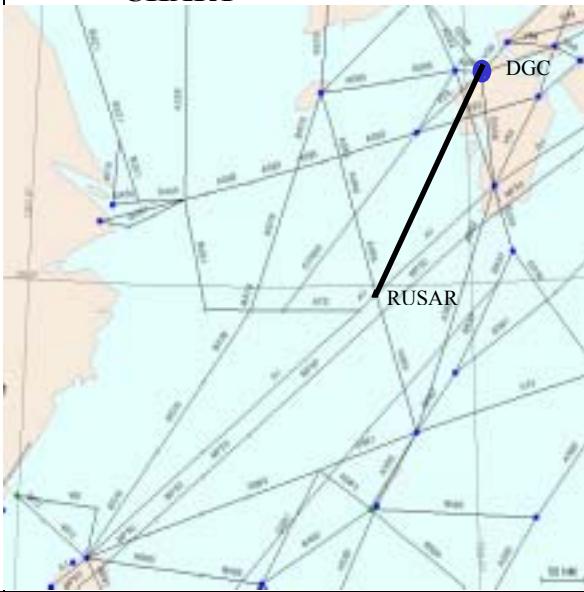
Action Required	China continues to coordinate with Russia to submit proposals for deletion of the segment between Harbin and Ekimchan from BANP.

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _x

Remarks: The route between Harbin and Ekimchan is not possible and cannot be implemented at present. The requirement is being served by other available ATS route. The direct route requirement will be kept under review.

ATS ROUTE NAME: A223

Requested by :

ENTRY/EXIT POINT	CHART
ROUTE DESCRIPTION RUSAR .. Fukuoka (DGC)	
FLIGHT LEVEL BAND	
PRIORITY: HIGH/MED/LOW	

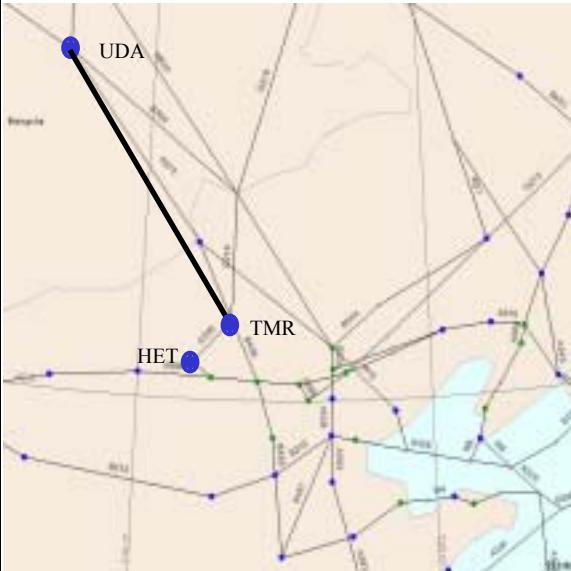
Action Required	Japan to continue to review or submit proposal for deletion from BANP.

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _X

Remarks: The route between RUSAR and FUKUOKA is not possible and cannot be implemented at present. The requirement is being served by other available ATS route. The direct route requirement will be kept under review.

ATS ROUTE NAME: A335

Requested by :

ENTRY/EXIT POINT	CHART
ROUTE DESCRIPTION Hohhot .. Tumurtai (TMR) .. Ulaanbaatar (UDA) .. Irkutsk	
FLIGHT LEVEL BAND	
PRIORITY: HIGH/MED/LOW	

Action Required	China to submit proposals for deletion from BANP. ICAO to circulate proposal for deletion from BANP.
-----------------	---------------------------------------------------------------------------------------------------------

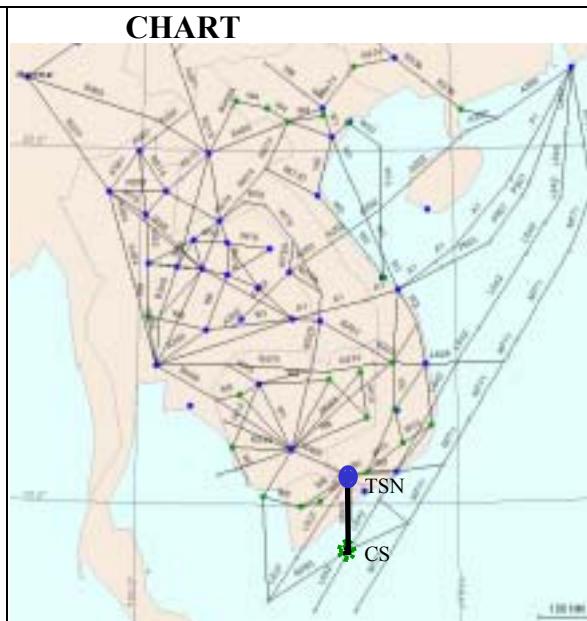
Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _x

Remarks: The route between Tumurtai and Ulan Bator is being served by other available ATS route.

ATS ROUTE NAME: A469

Requested by :

ENTRY/EXIT POINT
ROUTE DESCRIPTION
Tansonhat (TSN) .. Conson (CS)
FLIGHT LEVEL BAND



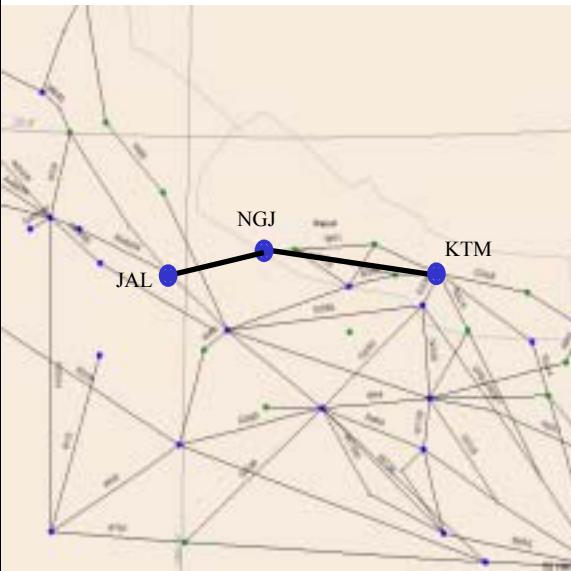
Action Required	Viet Nam to submit proposals for deletion from BANP. ICAO to circulate proposal for deletion from BANP.
-----------------	------------------------------------------------------------------------------------------------------------

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _x

Remarks: The route is being served by other available ATS route.

ATS ROUTE NAME: A473

Requested by :

ENTRY/EXIT POINT XXXXX	CHART
ROUTE DESCRIPTION Jalalabad (JAL) .. Nepalgunj (NGJ) .. Kathmandu (KTM)	
FLIGHT LEVEL BAND	
PRIORITY: HIGH/MED/LOW	

Action Required	States to implement the requirement as L626 in June 2005.
	Amendment proposal to delete be submitted

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _x

Remarks: The route will be served as L626 in June 2005.

ATS ROUTE NAME: A584

Requested by :

ENTRY/EXIT POINT	CHART
ROUTE DESCRIPTION Tonga (TBU) .. Niue (NU) .. Faleolo (FA) .. Funafuti (FU) .. Nauru (NI) .. Kosrae (UKS)	
FLIGHT LEVEL BAND	
PRIORITY: HIGH/MED/LOW	

Action Required	US to submit proposal for deletion of the segment between Nauru and Kosrae. ICAO to circulate proposal for deletion from BANP.
-----------------	-----------------------------------------------------------------------------------------------------------------------------------

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _X

Remarks: The segment will be proposed by US to delete from the BANO.

ATS ROUTE NAME: B201

Requested by :

ENTRY/EXIT POINT	CHART
ROUTE DESCRIPTION Niue (NU) .. Auckland (AA)	
FLIGHT LEVEL BAND	Under construction
PRIORITY: HIGH/MED/LOW	

Action Required	States to coordinate to submit proposal for deletion of the requirement. ICAO to circulate proposal for deletion from BANP.
-----------------	--------------------------------------------------------------------------------------------------------------------------------

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _X

Remarks: The segment will be delete after the States' proposals.

ATS ROUTE NAME: R216

Requested by :

ENTRY/EXIT POINT XXXXX	CHART
ROUTE DESCRIPTION Urumqi (URC) .. Almaty (ALM)	
FLIGHT LEVEL BAND	
PRIORITY: HIGH/MED/LOW	

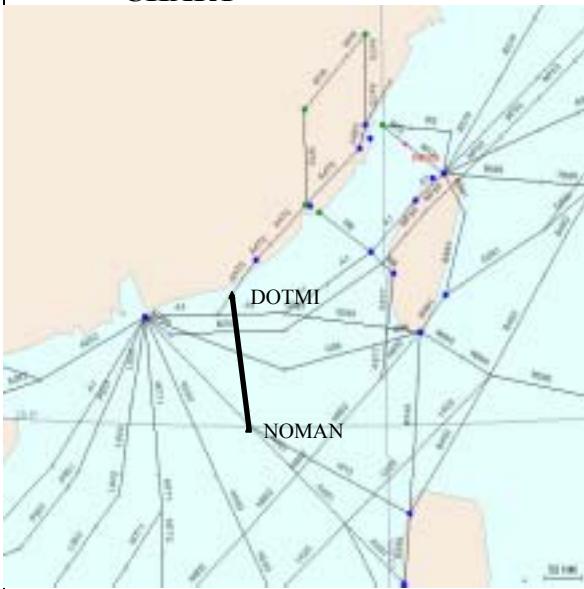
Action Required	States to coordinate to submit proposal for deletion of the requirement. ICAO to circulate proposal for deletion from BANP.
-----------------	--------------------------------------------------------------------------------------------------------------------------------

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _X

Remarks: The route between URUMQI and ALMA ATA is not possible and cannot be implemented at present. The requirement is being served by other available ATS route. The direct route requirement will be kept under review.

ATS ROUTE NAME: R333

Requested by :

ENTRY/EXIT POINT XXXXX	CHART
ROUTE DESCRIPTION DOTMI .. NOMAN	
FLIGHT LEVEL BAND	
PRIORITY: HIGH/MED/LOW	

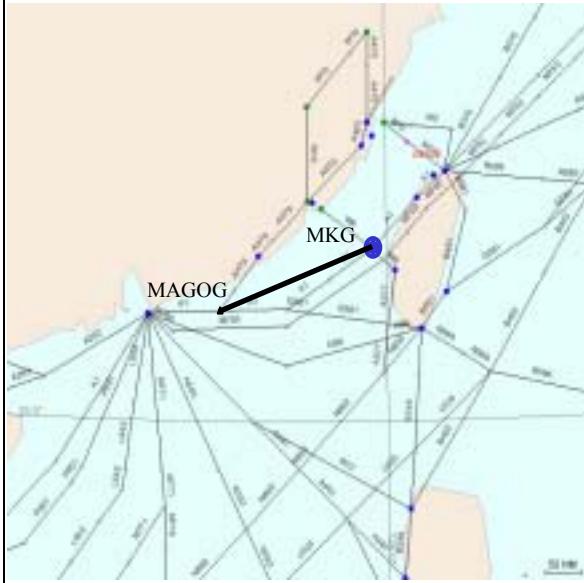
Action Required	States to coordinate to submit proposal for deletion of the requirement. ICAO to circulate proposal for deletion from BANP.
-----------------	--------------------------------------------------------------------------------------------------------------------------------

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _X

Remarks: The route requirement between DOTMI and NOMAN (formerly AKERO) need to be collectively considered with other future ATS route system to be developed in the region to reap the best overall result for all concerned parties. The direct route requirement will be kept under review.

ATS ROUTE NAME: R335

Requested by :

ENTRY/EXIT POINT XXXXX	CHART  <p>The chart displays a series of flight level bands (FL) from FL100 to FL390. Two specific points are marked: MAGOG (at FL100) and MKG (at FL390). A blue dot and arrow indicate the intended route path from MAGOG to MKG, which follows the upper boundary of the FL390 band.</p>
ROUTE DESCRIPTION MAGOG .. Makung (MKG)	
FLIGHT LEVEL BAND	

PRIORITY: HIGH/MED/LOW

Action Required	States to coordinate to submit proposal for deletion of the requirement. ICAO to circulate proposal for deletion from BANP.
-----------------	--------------------------------------------------------------------------------------------------------------------------------

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _X

Remarks: The route between MAGOG and MAKUNG is not possible and cannot be implemented at present. The requirement is being served by other available ATS route. The direct route requirement will be kept under review.

ATS ROUTE NAME: R345

Requested by :

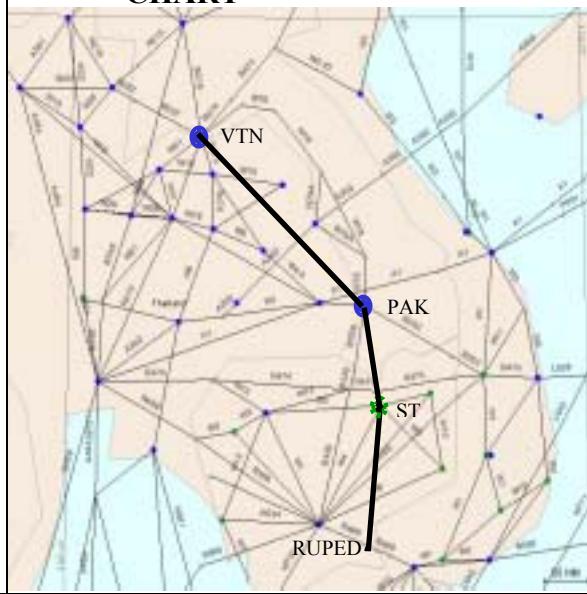
ENTRY/EXIT POINT
XXXXXX

ROUTE DESCRIPTION
Vientiane (VTN) .. Takhaeak .. Pakse
(PAK) .. Stung Treng (ST) .. RUPED

FLIGHT LEVEL BAND

PRIORITY: HIGH/MED/LOW

CHART



Action Required	States to coordinate to submit proposal for deletion of the requirement. ICAO to circulate proposal for deletion from BANP.
-----------------	--------------------------------------------------------------------------------------------------------------------------------

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _x

Remarks: The route is not possible and cannot be implemented at present. The requirement is being served by other available ATS route.

**Chapter 3: Routes Implemented
Not In the BANP/Not In Accordance with the BANP**

ATS Routes	Route Description /Significant points	Coordinates	FIR	Remarks
M512 (on operational trial, target implementation date 12 May 2005)	KATUNAYAKE ANIVE DOPDO		Colombo Maldives	APACapproved on Circulated on ... (other relevant information e.g. ATC Coordination Group)
M772 (to be updated by ICAO Regional Office)				
EMMARSH Routes (to be updated by ICAO Regional Office)				

Chapter 4, Part A: Route Requirements – States

(This section contains routes that have been agreed to be included in the BANP and will be progressed as BANP amendments)

PROPOSER	ATS ROUTES	SIGNIFICANT POINTS	COORDINATES	FIR	REMARKS
Indonesia	L644	Jakarta ABASA Tanjung Pandan KIKOR	0557.7N 10702.1E 0456.9N 10715.7E 0243.5N 10745.2E 0024.0N 10705.1E	Jakarta Jakarta Jakarta Jakarta/Singapore	APAC-ATS-
	M635	Tanjung Pinang SANOS RAMPY Curtin	0054.2N 10430.9E 0042.0N 10619.6E 0620.8S 11320.8E 1735.3S 12351.1E	Singapore Singapore/Jakarta Jakarta Brisbane	
	M774	Tanjung Pinang KIKOR BOMAX BOLSA KIBON Pangkalan Bun KOBAS KEVOK KEONG KIKEM	0054.2N 10430.9E 0024.0N 10705.1E 0054.2S 10805.6E 0112.1S 10841.2E 0150.0S 11000.0E 0243.6S 11141.8E 0300.0S 11214.6E 0420.5S 1145605E 0655.3S 12002.0E 0952.9S 12607.4E	Singapore Singapore/Jakarta Jakarta Jakarta Jakarta Jakarta Jakarta Jakarta Jakarta Jakarta/Brisbane	
	P648	Jakarta ATOSO AMBOY AKULA KIBON OSUKA OMEGA OKADA Kinabalu	0057.9S 10702.3E 0508.9S 10728.0E 0408.0S 10810.0E 0307.2S 10857.1E 0150.0S 11000.0E 0117.5S 11024.7E 0023.0S 11107.2E 0134.0N 11238.0E 0553.9N 11601.9E	Jakarta Jakarta Jakarta Jakarta Jakarta Jakarta Jakarta Jakarta Kota Kinabalu	
	M522	Bali GALKO KEVOK ELANG MAMOK Kinabalu	0845.0S 11509.8E 0649.6S 11504.9E 0420.5N 11456.5E 0055.6S 11450.1E 0405.1N 11547.2E 0553.9N 11601.9E	Jakarta Jakarta Jakarta Jakarta Jakarta Kota Kinabalu	
Indonesia	M768	ELBIS PORAK LADOP MAMOK	0905.3S 12743.7E 0458.6S 12400.4E 0001.7N 11930.7E 0405.1N 11547.2E	Brisbane/U Pandang Ujung Pandang Jakarta Jakarta	

ATS ROUTE NAME: L644

Requested by : Indonesia

ENTRY/EXIT POINT

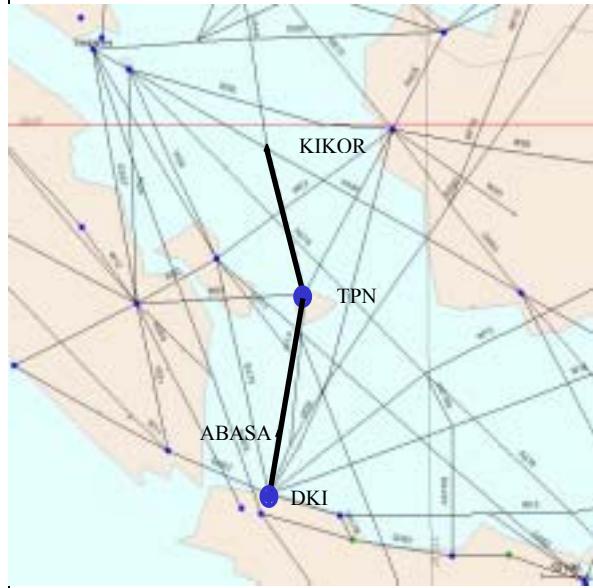
ROUTE DESCRIPTION

Jakarta (DKI) .. ABASA .. Tanjung
Pandan (TPN) .. KIKOR

FLIGHT LEVEL BAND

PRIORITY: HIGH/MED/LOW

CHART



Action Required (Move to 4A)	States to coordinate implementation.
---------------------------------	--------------------------------------

Benefit

Cost

Fuel Saving

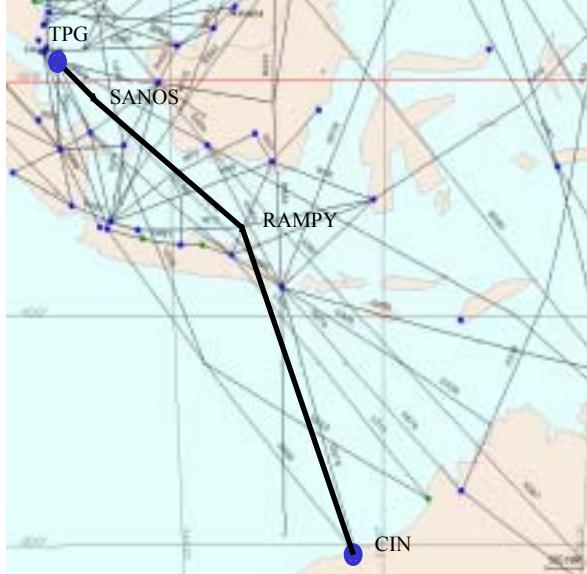
Emission CO₂

NO_x

Remarks:

ATS ROUTE NAME: M635

Requested by : Indonesia

ENTRY/EXIT POINT**ROUTE DESCRIPTION**Tanjung Pinang (TPG) .. SANOS ..
RAMPY .. Curtin (CIN)**FLIGHT LEVEL BAND****PRIORITY: HIGH/MED/LOW****CHART**

Action Required (Move to 4A)	States to coordinate to implementation.
---------------------------------	-----------------------------------------

Benefit		
Cost		
Fuel Saving		
Emission	CO ₂	
	NO _x	

Remarks:

ATS ROUTE NAME: M774

Requested by : Indonesia

ENTRY/EXIT POINT

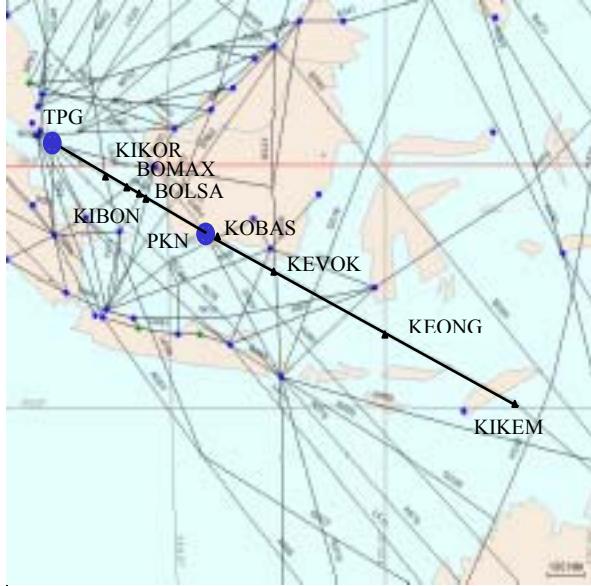
ROUTE DESCRIPTION

Tanjung Pinang (TPG) .. KIKOR ..
BOMAX .. BOLSA .. KIBON ..
Pangkalan Bun (PKN) .. KOBAS ..
KEVOK .. KEONG .. KIKEM

FLIGHT LEVEL BAND

PRIORITY: HIGH/MED/LOW

CHART



Action Required (Move to 4A)	States agreed to implementation. BANP amendment proposal APAC-ATS/05/5 pending approval.
---------------------------------	---------------------------------------------------------------------------------------------

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _x

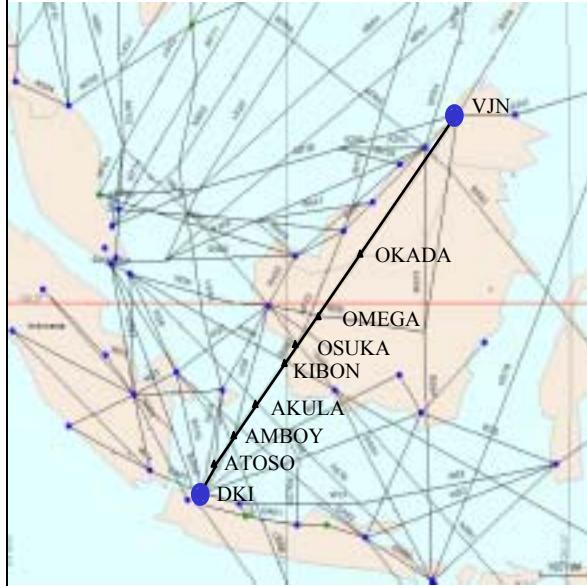
Remarks:

ATS ROUTE NAME: P648

Requested by : Indonesia

ENTRY/EXIT POINT**ROUTE DESCRIPTION**

Jakarta (DKI) .. ATOSO .. AMBOY ..
 AKULA .. KIBON .. OSUKA .. OMEGA
 .. OKADA .. Kinabalu (VJN)

FLIGHT LEVEL BAND**PRIORITY: HIGH/MED/LOW****CHART**

Action Required (Move to 4A)	States agreed to implementation. BANP amendment proposal APAC-ATS/05/5 pending approval.
---------------------------------	---------------------------------------------------------------------------------------------

Benefit		
Cost		
Fuel Saving		
Emission	CO ₂	
	NO _x	

Remarks:

ATS ROUTE NAME: M522

Requested by : Indonesia

ENTRY/EXIT POINT

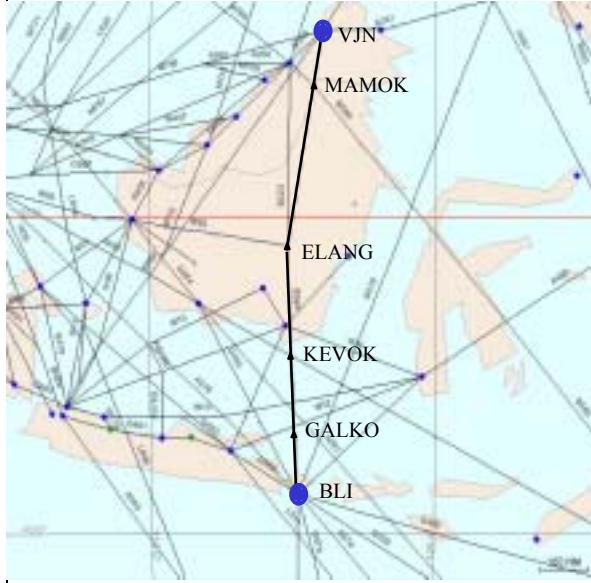
ROUTE DESCRIPTION

Bali (BLI) .. GALKO .. KEVOK ..
ELANG .. MAMOK .. Kinabalu (VJN)

FLIGHT LEVEL BAND

PRIORITY: HIGH/MED/LOW

CHART



Action Required (Move to 4A)	States to coordinate implementation. BANP amendment proposal APAC-ATS/05/5 pending approval
---------------------------------	------------------------------------------------------------------------------------------------

Benefit		
Cost		
Fuel Saving		
Emission	CO ₂	
	NO _x	

Remarks:

ATS ROUTE NAME: M768

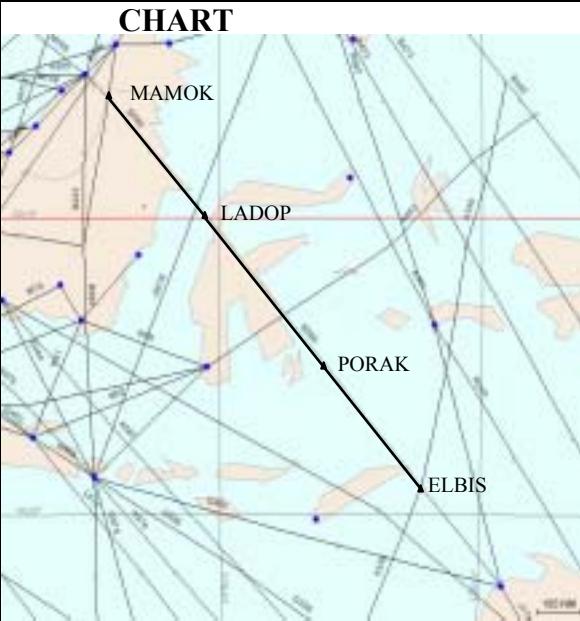
Requested by : Indonesia

ENTRY/EXIT POINT

ROUTE DESCRIPTION
ELBIS .. PORAK .. LADOP .. MAMOK

FLIGHT LEVEL BAND

PRIORITY: HIGH/MED/LOW



Action Required (Move to 4A)	States to coordinate implementation. ICAO to circulate proposal for deletion from BANP.
---------------------------------	--------------------------------------------------------------------------------------------

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _x

Remarks:

Chapter 4, Part B: Future Route Requirements – States

(The routes in this section have been submitted by States for consideration to be included in the BANP and are subject to coordination and agreement)

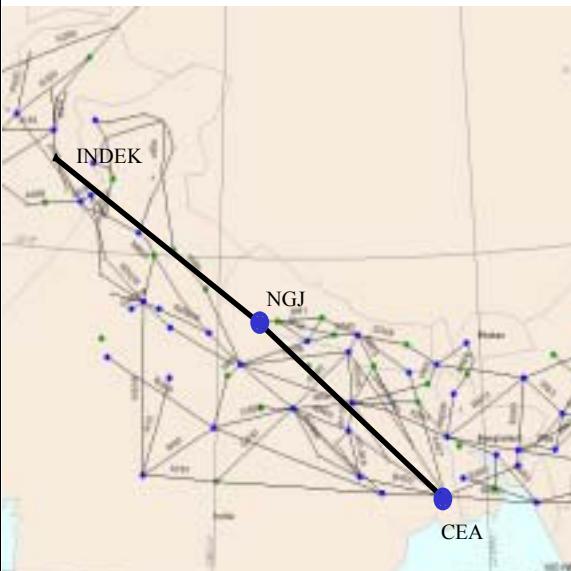
(Coordinates are indicative only, not for operational use)

PROPOSER	ATS ROUTE	SIGNIFICANT POINTS	COORDINATES	FIR	REMARKS
Cambodia Thailand Vietnam	R575	(provisional) PARPA UPNEP SURAT THANI Phuket			
Cambodia Thailand	R589	(provisional) Phnom Penh UPNEP SURAT THANI			
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	
Republic of Korea		AGAVO Anyang	3710.0N 12400.0E 3724.8N 12655.7E	Incheon Incheon/Shang hai	
Tahiti	R582	KRILL MAITO Tahiti PAERE TOLAB TAMUR TIERE TARAO TUNBA TIAMU	2016.1N 15700.0E 1732.8S 14936.1E 1625.0S 14752.6W 1428.0S 14500.0W 1104.0S 14000.0W	Auckland Ocn/Tahiti Tahiti Tahiti Tahiti Tahiti Tahiti Tahiti Tahiti Tahiti	

Viet Nam		HANOI DANANG PLEIK HO CHI MINH			
		NOBAI/ KUNMING			
		NOBAI CATBI SAMAS HONG KONG			
		ASSAD (LUANG PRABANG)			

ATS ROUTE NAME: Himalaya 1

Requested by : Nepal

ENTRY/EXIT POINT XXXXX	CHART  An aeronautical chart displays a flight route originating from INDEK in the north, passing through NGJ in the center, and ending at CEA in the south. The route is marked with a thick black line connecting the three waypoints. The chart includes various airways, airports, and geographical features typical of a regional flight map.
ROUTE DESCRIPTION Kolkata (CEA) .. Nepalgunj (NGJ) .. INDEK	
FLIGHT LEVEL BAND	
PRIORITY: HIGH/MED/LOW	

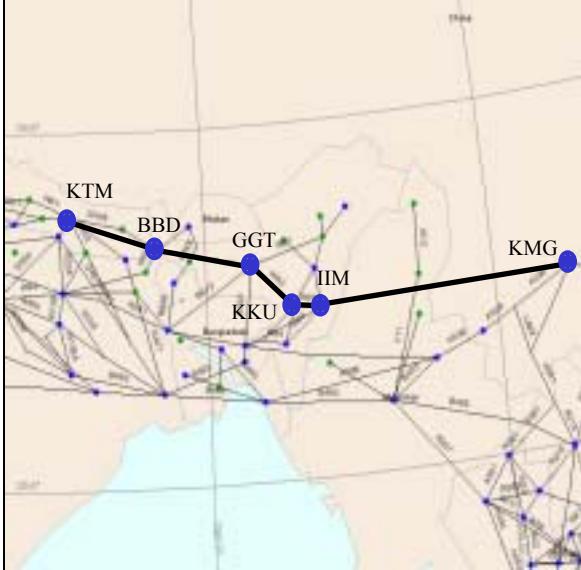
Action Required	States to coordinate implementation.
.	

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _x

Remarks:

ATS ROUTE NAME: Himalaya 2

Requested by : Nepal

ENTRY/EXIT POINT XXXXX	CHART
ROUTE DESCRIPTION Kathmandu (KTM) .. Bagdogra (BBD) .. Guwahati (GGT) .. Silchar (KKU) .. Imphal (IIM) .. Kunming (KMG)	
FLIGHT LEVEL BAND	
PRIORITY: HIGH/MED/LOW	

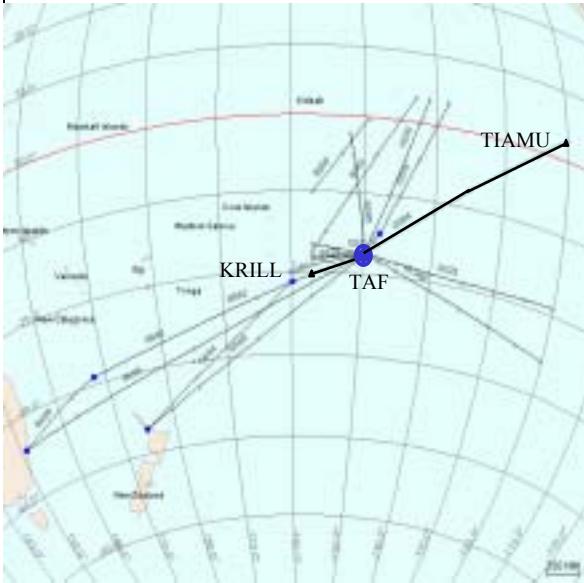
Action Required	States to coordinate implementation.
.	

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _x

Remarks:

ATS ROUTE NAME: R582

Requested by : Tahiti

ENTRY/EXIT POINT	CHART
ROUTE DESCRIPTION Decommissioned G594 and realigned R582 as KRILL .. MAITO .. Tahiti (TAF) .. PAERE .. TOLAB .. TAMUR .. TIERE.. TARAO .. TUNBA .. TIAMU	
FLIGHT LEVEL BAND	
PRIORITY: HIGH/MED/LOW	

Action Required	States to coordinate implementation. ICAO to circulate proposal for deletion from BANP.
-----------------	--------------------------------------------------------------------------------------------

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _X

Remarks:

ATS ROUTE NAME:

Requested by : Vietnam

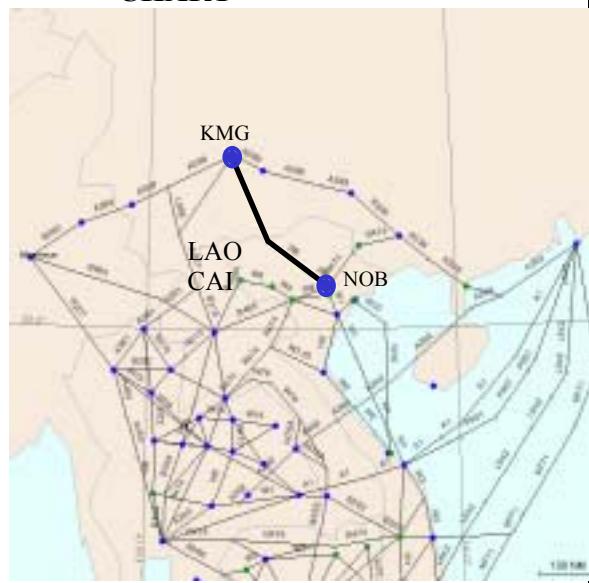
ENTRY/EXIT POINT
XXXXX

ROUTE DESCRIPTION
Noibai (NOB) .. LAOCAI .. Kunming
(KMG)

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	States to coordinate implementation. ICAO to circulate proposal for deletion from BANP.
-----------------	--------------------------------------------------------------------------------------------

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _X

Remarks:

ATS ROUTE NAME:	
Requested by : Vietnam	

ENTRY/EXIT POINT XXXXX	CHART
ROUTE DESCRIPTION Hanoi .. Danang .. Pleiku .. Buon Mathuot .. Anloc. .Ho Chi Minh	
FLIGHT LEVEL BAND 29000 – 41000 feet	Under Construction
PRIORITY: HIGH/MED/LOW	

Action Required	States to coordinate to submit proposal for deletion of the requirement. ICAO to circulate proposal for deletion from BANP.
-----------------	--------------------------------------------------------------------------------------------------------------------------------

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _X

Remarks: CAAV has intended plan to upgrade the domestic ATS route W1 (Hanoi – Danang – Ho Chi Minh) to international ATS route in the upper airspace.
Proposed to Regional Meeting on 4 May 2005.

ATS ROUTE NAME:

Requested by : Vietnam

ENTRY/EXIT POINT
XXXXX

ROUTE DESCRIPTION

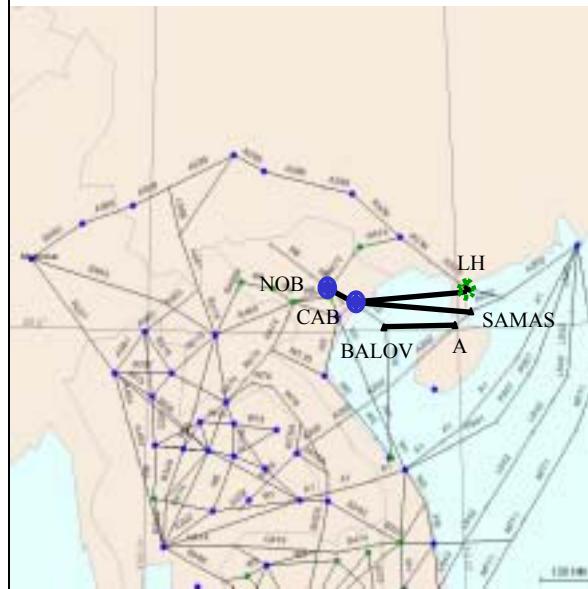
Three Options:

- A) Noibai (NOB) .. Catbi (CAB) .. SAMAS
- B) Noibai (NOB) .. Catbi (CAB) .. BALOV .. A .. SAMAS
- C) Noibai (NOB) .. Catbi (CAB) .. Huguang (LH)

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	States to coordinate to submit proposal for deletion of the requirement.
	ICAO to circulate proposal for deletion from BANP.

Benefit	
Cost	
Fuel Saving	
Emission	CO ₂
	NO _x

Remarks:

ATS ROUTE NAME: SEA1

Requested by :Vietnam, Lao PDR

Remarks: This route is also a user requirement as reflected in Chapter 5 under the same ATS Route Name

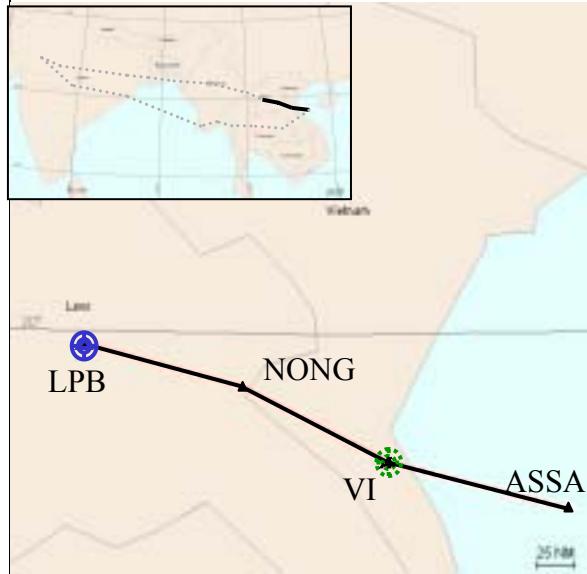
ENTRY/EXIT POINT
ASSAD / Nonghet(NONGT) / AKSAG

ROUTE DESCRIPTION
ASSAD .. Vinh(VIN) ..
Nonghet(NONGT) ..
LuangPrabang(LPB) ..

FLIGHT LEVEL BAND
28000 – 41000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	States to coordinate to submit proposal for deletion of the requirement. ICAO to circulate proposal for deletion from BANP.
-----------------	--------------------------------------------------------------------------------------------------------------------------------

Benefit	
Cost	
Fuel Saving	Mileage saving 100NM
Emission	CO ₂
	NO _x

Remarks:

Chapter 5: Part A: Route Requirements – Users

(The routes in this section have been submitted by Users and agreed to be included in the BANP
and are subject to an amendment proposal to the BANP)

ATS ROUTES	SIGNIFICANT POINTS	COORDINATES	FIR	REMARKS

Chapter 5: Part B: Future Route Requirements – Users

(The routes in this section have been submitted by Users for consideration to be included in the BANP and 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 2	GGC ASARI	N2444.5 E08456.6 N3048.3 E07509.5	KOLKATTA DELHI	
IND 3	LAPAN BUTOP	N2343.9 E08326.1 N2919.7 E07523.9	KOLKATTA DELHI	
IND 4	KAKID LAPAN	N2038.6 E08639.9 N2343.9 E08326.1	KOLKATTA KOLKATTA	
IND 5	BUTOP JHANG	N2919.7 E07523.9 N3116.0 E07218.0	DELHI PAKISTAN	
IND 6	BBS PRA	N2014.6 E08548.8 N2401.8 E07445.0	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
SEA1	ASSAD VINH NONGT LPG	N1820.5 E10740.9 N1844.0 E 10540.1 N1930.0 E10359.0 N1954.0 E10209.6	HANOI HANOI VIENTIENE VIENTIENE	
SEA 2	DANANG SYX	N1603.2 E10811.9 N1818.4 E10910.4	HOCHIMINH SANYA AOR	
SEA 3	BUT ENREP	N1240.0E10100.0 N0452.4 E10414.7	BANGKOK SINGAPORE	
SEA 4	BITOD PNOMPENH	N0715.4 E10450.3 N1132.5 E10450.3	HOCHIMINH PNOMPENH	REALIGN M753
SEA 5	STUNG TRENG DANANG	N1331.5 E10600.9 N1603.2 E10811.9	PNOMPENH HOCHIMINH	
SEA 6	PAKSE ASSAD	N1511.8 E10544.5 N1820.5 E10740.9	VIENTIANE ASSAD	

SEA 7	BATAR PARDI	N0210.0 E10205.2 S0034.0 E10413.0	LUMPUR JAKARTA	UNIDIRECTIONAL ROUTE
SEA 8	ARAMA BOBAG ANITO	N0136.9 E10307.2 N0102.5 E10329.9 S0017.0 E10452.0	LUMPUR SINGAPORE JAKARTA	
SEA 9	DANANG SAMUI	N1603.2 E10811.9 N0932.8 E10003.7	HOCHIMINH BANGKOK	
SEA 10	CAVOI/ IGNIS QUNGI SAMUI	N1713.5 E11000.0 N1721.0 E11109.0 N1507.0 E10848.0 N0932.8 E10003.7	SANYA AOR SANYA AOR HOCHIMINH BANGKOK	QUNGI TO CAVOI AND TO IGNIS
SEA 11	NANSHAN BUNTA/ SAMBO	N1818.4 E 10910.4 N1650.0 E 10923.7 N1616.8 E E108 42.5	SANYA AOR HOCHIMINH HOCHIMINH	NANSHAN TO BUNTA AND TO SAMBO
SEA 12	ROT HUGUANG	N16 07.0 E 103 46.7 N21 07.9 E110 20.2	HOCHIMINH GUANGZHOU	
SCS1	DAMEL CH	N1358.7 E11136.4 N2213.2E11401.8	HOCHIMINH HONGKONG	
SCS 2	VEPAM CH	N1358.0 E11000.0 N2213.2 E11401.8	HOCHIMINH HONGKONG	
SCS 3	EXOTO IDOSI	N1521.5 E11103.0 N1900.0 E11230.0	HOCHIMINH HONGKONG	
SCS 4	VKL CONSON	N0243.5 E10144.3 N0843.8 E10637.9	LUMPUR HOCHIMINH	
SCS 5	EXOTO DAMVO MELAS LUSMO	N1521.5 E11103.0 N1106.5 E10932.7 N0705.3 E10809.2 N0333.7 E10655.6	HOCHIMINH HOCHIMINH HOCHIMINH SINGAPORE	
SCS 6	LUSMO MELAS DAMVO	N0333.7 E10655.6 N0705.3 E10809.2 N1106.5 E10932.7	SINGAPORE HOCHIMINH HOCHIMINH	
SCS 7	BRUNEI LAXOR DULOP	N04 52.5E11453.1 N0949.6 E11448.5 N1814.2E11432.6	KINABALU SINGAPORE HONGKONG	TO JOIN M772 AT LAXOR
SCS8	DULOP ELATO	N1814.2E11432.6 N2220.0 E11730.0	HONGKONG HONGKONG	EITHER DULOP/ KAPLI

	ENVAR DULOP KAPLI	N2159.5 E11730.0 N1814.2E11432.6 N2110.0 E11730.0	HONGKONG HONGKONG HONGKONG	G86, OR DULOP/ ELATO& ENVAR
SCS 9	TOKON DILIS TOKON ENDAX	N1142.0 E11940.5 N1431.1 E12600.1 N1142.0 E11940.5 N1415.0 E13000.0	MANILA MANILA MANILA MANILA	EITHER TOKON/ DILIS OR TOKON/ ENDAX
PHI 1	MIA CAB MEVIN	N1430.5 E12101.3 N1528.9 E12101.5 N2100.0 E12233.0	MANILA MANILA MANILA	
PHI 2	MIA MYC	N1430.5 E12101.3 N2447.2 E12518.1	MANILA NAHA	
TWN 1	APU MIKES	N2510.6 E12131.3 N2935.2 E12544.9	TAIPEH NAHA	
THA 1	KORAT DAWEI	N1455.0 E10208.4 N1405.9 E09812.2	BANGKOK YANGON	
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	
WPC 1	PY VNO ROR ENDAX ELMAS TINHO	S0927.2 E14712.9 S0240.7 E14118.2 N0722.1 E13433.0 N1415.0 E13000.0 N2027.0 E12500.0 N2421.2 E12201.7	PT MORESBY PT MORESBY OAKLAND MANILA MANILA TAIPEI	
CHA 1 (CHA 5)	YNC GUPAD CGO SB	N3819.4 E 10623.8 N3618.7 E11028.4 N3430.9 E11350.6 N3150.4 E11714.0	LANZHOU LANZHOU WUHAN SHANGHAI	
CHA 2 (CHA 7)	KUQA CHW	N4143.0 E08300.0 N3951.0E09821.0	URUMQI LANZHOU	
CHA 3 (CHA 9A)	FKG OMBON	N4410.0 E08759.0 N3238.5 E10420.0	URUMQI KUNMING	

CHA 4 (CHA 10A)	MORIT NSH POU	N4202.0 E10249.0 N3319.1 E10818.7 N2301.2 E11311.4	LANZHOU LANZHOU GUANGZHOU	
CHA 5 (CHA 11A)	YIN INTIK	N2412.4E11324.6 N4340.8 E11154.1	GUANGZHOU BEIJING	
CHA 6 (CHA14)	OMBON NSH OBLIK SB (LUOGANG)	N3238.5 E10420.0 N3319.1 E10818.7 N3218.0 E11432.0 N3146.8 E11718.1	KUNMING LANZHOU WUHAN SHANGHAI	
CHA 7 (CHA 15)	KANSU KICHA CGQ HLD	N3838.0 E13228.5 N4041.0 E12911.5 N4338.0 E12400.5 N4912.1 E11949.4	PYONGYANG PYONGYANG SHENYANG SHENYANG	
CHA 8 (CHA16)	SCH HTN CHW	N3825.7 E07714.4 N3702.2 E07952.3 N3951.0E09821.0	URUMQI URUMQI LANZHOU	
CHA 9 (CHA17)	YBL SANLI	N3925.7 E10246.3 N3200.0 E100.00.0	LANZHOU KUNMING	
CHA 10 (CHA18)	ARGUK DALIAN HEFEI BEMAG	N4753.0E13439.5 N3857.6 E12130.8 N3146.8 E11718.1 N2601.1 E11400.1	SHENYANG SHENYANG SHANGHAI GUANGZHOU	
CHA 11 (CHA19)	DALIAN XJT	N3857.6 E12130.8 N3557.7 E12014.4	SHENYANG SHANGHAI	
IATA1	KCA RED3 RED2 RED1 OMBON	N4143.0 E08300.0 N3810.0 E09230.0 N3700.0 E09530.0 N3609.1 E09738.0 N3238.5 E10420.0	URUMQI LANZHOU LANZHOU LANZHOU KUNMING	
IATA2	OMBON RO	N3238.5 E10420.0 N2546.1 E10936.4	KUNMING GUANGZHOU	
IATA3	OMBON SB (LUOGANG)	N3238.5 E10420.0 N3146.8 E11718.1	KUNMING SHANGHAI	
PRD 1	POU ZUH SIERA	N2301.2 E11311.4 N2213.3 E11328.0 N2159.1 E11333.2	GUANGZHOU GUANGZHOU HONGKONG	
PRD2	POU ZUH SIERA	N2301.2 E11311.4 N2213.3 E11328.0 N2159.1 E11333.2	GUANGZHOU GUANGZHOU HONGKONG	

	SIKOU	N2050.6 E11130.0	HONGKONG	
RUS 1	SESUR KAE	N4217.5 E13041.5 N3742.0 E12845.2	VLADIVOSTOK INCHOEN	
RUS 2	TEKUK KAE	N4241.0 E13527.0 N3742.0 E12845.2	VLADIVOSTOK INCHOEN	
RUS 3	BG (Muraveyka) TELOD KAE	N 4353.0 E13315.0 N4219.6 E13211.8 N3742.0 E12845.2	VLADIVOSTOK VLADIVOSTOK INCHOEN	

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
 TWN-Taiwan
 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 the earlier route catalogue. They are renamed following consolidation of China routes and ARNR TF 3 meeting.

ATS ROUTE NAME: IND1

REQUESTED BY: IATA

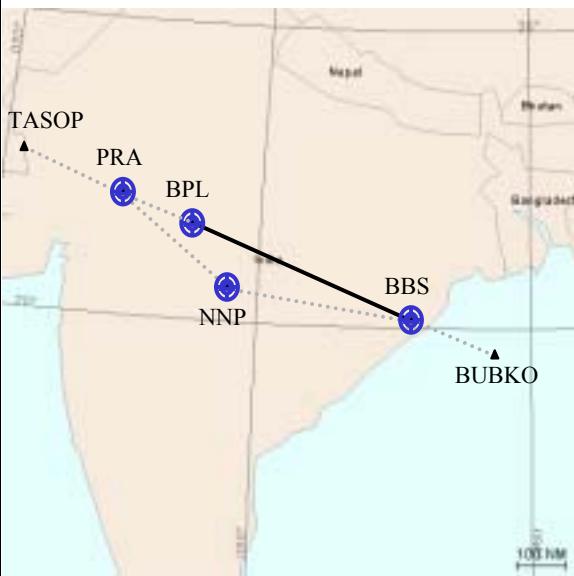
**ENTRY/EXIT POINT
BBS / BPL**

**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: IND2

REQUESTED BY: IATA

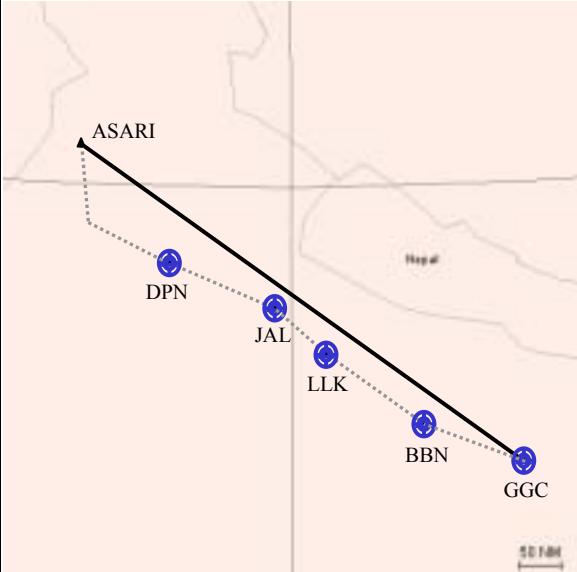
ENTRY/EXIT POINT

ROUTE DESCRIPTION
GGC .. ASARI

FLIGHT LEVEL BAND
29000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	40nm/ 5 mins	
Fuel	650kg	237250kg
CO ₂	2000kg	730000kg
No _x		

Remarks

Potential City Pairs: Europe/South East Asia

ATS ROUTE NAME: IND 3

REQUESTED BY: IATA

ENTRY/EXIT POINT

ROUTE DESCRIPTION

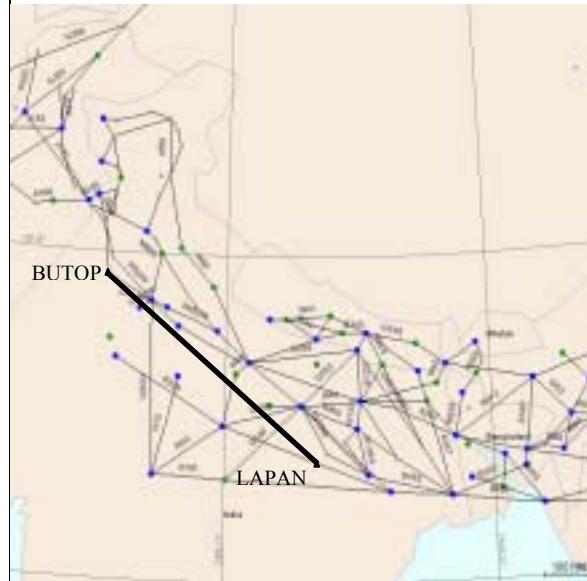
LAPAN ..BUTOP

**FLIGHT LEVEL BAND
28000 –46000 FEET**

PRIORITY: HIGH/MED/LOW

HIGH

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	26nm/3.25mins	
Fuel	422kg	154,213kg
CO ₂	1,300kg	474,500kg
No _x		

Remarks

Potential City Pairs: Europe – SEA airports

ATS ROUTE NAME: IND 4

REQUESTED BY: IATA

ENTRY/EXIT POINT

KAKID -LAPAN

ROUTE DESCRIPTION

KAKID .. LAPAN

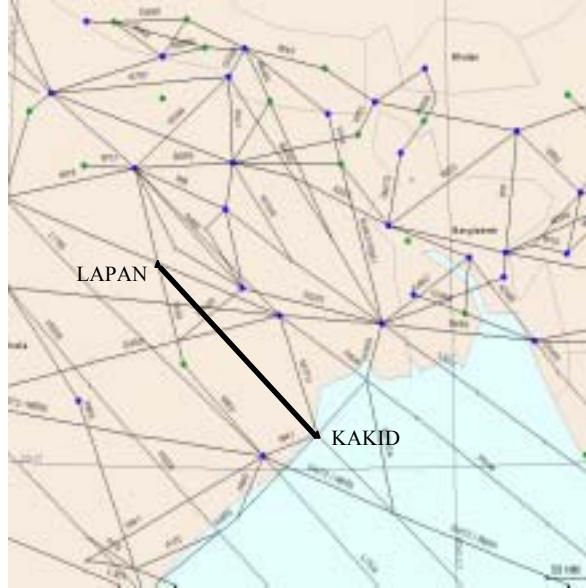
FLIGHT LEVEL BAND

28000- 46000 Feet

PRIORITY: HIGH/MED/LOW

HIGH

CHART



Action Required

IATA.

ICAO

Saving	Per flight	Annual
Mileage / Time	18 nm/ 2.25min	
Fuel	292 kg	106,763kg
CO ₂	900kg	328,500kg
No _x		

Remarks

Potential City Pairs: Europe – SEA Airports

ATS ROUTE NAME: IND 5

REQUESTED BY: IATA

ENTRY/EXIT POINT

BUTOP- JHANG

ROUTE DESCRIPTION

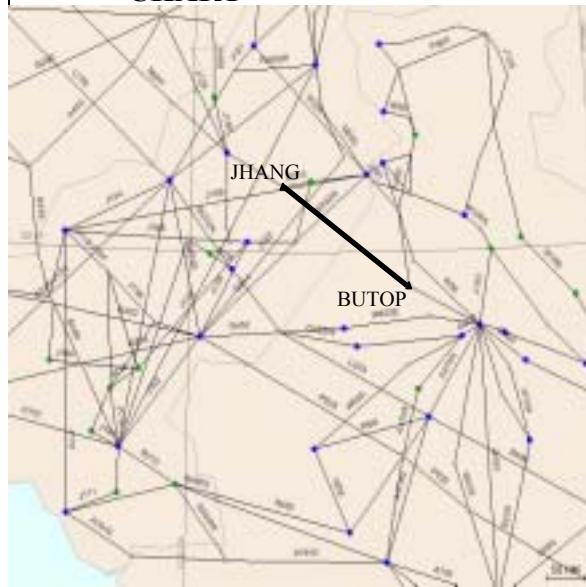
BUTOP- JHANG

FLIGHT LEVEL BAND

28000-46000 Feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA.
	ICAO

Saving	Per flight	Annual
Mileage / Time	56nm/ 7min	
Fuel	910kg	332,150kg
CO ₂	2,800kg	1,022 tons
No _x		

Remarks

ATS ROUTE NAME: IND 6

REQUESTED BY: IATA

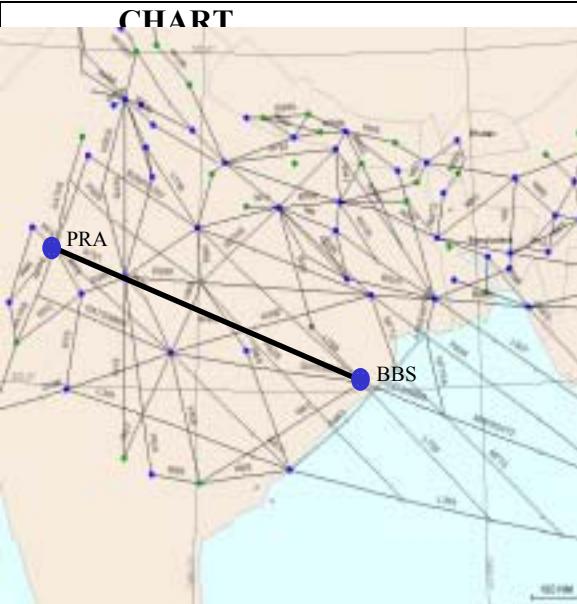
ENTRY/EXIT POINT

ROUTE DESCRIPTION

Bhubaneshwar (BBS).. Pratapgarh (PRA)

**FLIGHT LEVEL BAND
28000- 46000 feet**

PRIORITY: HIGH/MED/LOW



Action Required	IATA.
	ICAO

Saving	Per flight	Annual
Mileage / Time	21nm/ 2.6min	
Fuel	341kg	124,556kg
CO ₂	1050kg	383,250kg
No _x		

Remarks

Potential City Pairs: Europe – SEA /Pearl River Delta Airports

ATS ROUTE NAME: IND 7 (N877 Extension)

REQUESTED BY: IATA

**ENTRY/EXIT POINT
PRA - KAMAR**

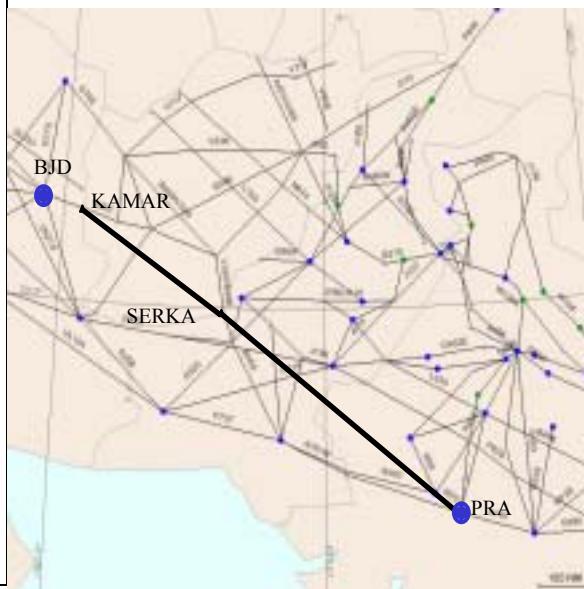
ROUTE DESCRIPTION

**Direct Route Track from PRATAGARH
PRA – SERKA– KAMAR – BIRJAND
FLIGHT LEVEL BAND**

28000-46000

**PRIORITY: HIGH/MED/LOW
HIGH**

CHART



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: SEA1

REQUESTED BY: IATA

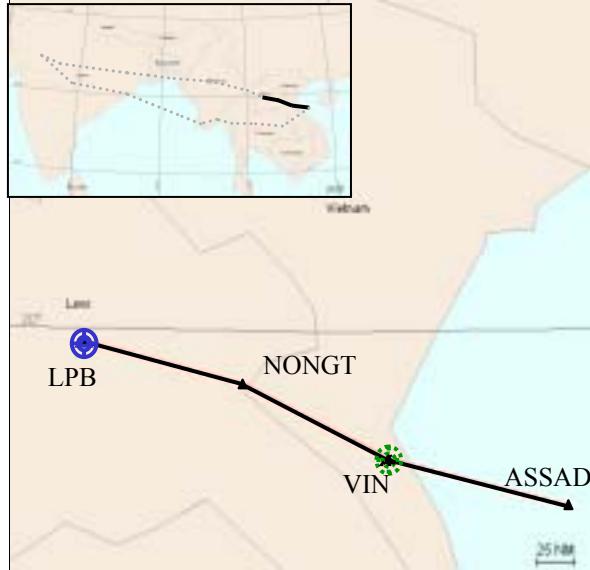
ENTRY/EXIT POINT
ASSAD / Nonghet(NONGT) / AKSAG

ROUTE DESCRIPTION
ASSAD .. Vinh(VIN) ..
Nonghet(NONGT) .. LuangPrabang (LPB) ..

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	100nm/ 12.5mins	
Fuel	1625 kg	593125 kg
CO ₂	5000kg	1,825 tonnes
No _x		

Remarks

Potential City Pairs: Middle East /Karachi – Pearl River Delta

ATS ROUTE NAME: SEA2

REQUESTED BY: IATA

ENTRY/EXIT POINT
DAN / XXXXX / SYX

ROUTE DESCRIPTION
DAN .. SYX

FLIGHT LEVEL BAND
29000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	739nm/93 mins	
Fuel	12090 kg	4,412 tonnes
CO ₂	37200kg	13,578 tonnes
No _x		

Remarks

Potential City Pairs: South East Asia - Hainan

ATS ROUTE NAME: SEA3

REQUESTED BY: IATA

ENTRY/EXIT POINT
BUT / XXXXX / ENREP

ROUTE DESCRIPTION
BUT- ENREP

FLIGHT LEVEL BAND
29000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time		
Fuel		
CO ₂		
No _x		

Remarks

Potential City Pairs: Bangkok- Australia

ATS ROUTE NAME: SEA 4 (REALIGN M753)
REQUESTED BY: IATA

ENTRY/EXIT POINT
BITOD – PHNOM PENH (PNH)

ROUTE DESCRIPTION

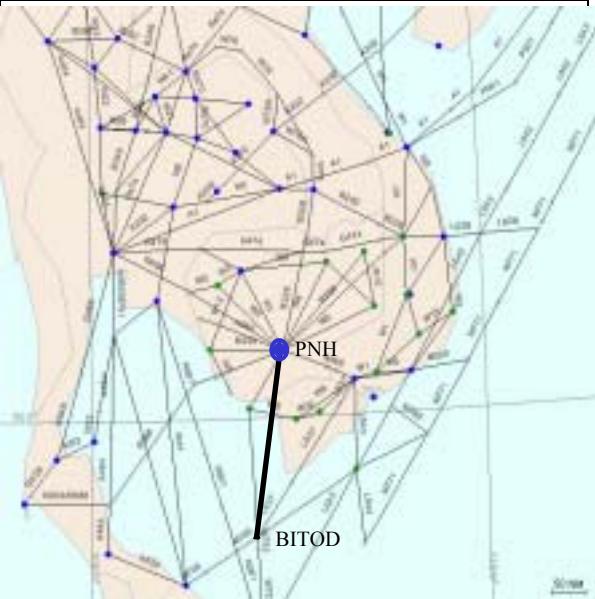
BITOD – PNH

FLIGHT LEVEL BAND

29000 - 46000

PRIORITY: HIGH/MED/LOW

MED



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	42 nm/5.25 min	
Fuel	682 kg	249,113kg
CO ₂	2100kg	766,500kg
No _x		

Remarks

Potential City Pairs: Singapore/KL –Pnom Penh

ATS ROUTE NAME: SEA 5
REQUESTED BY: IATA

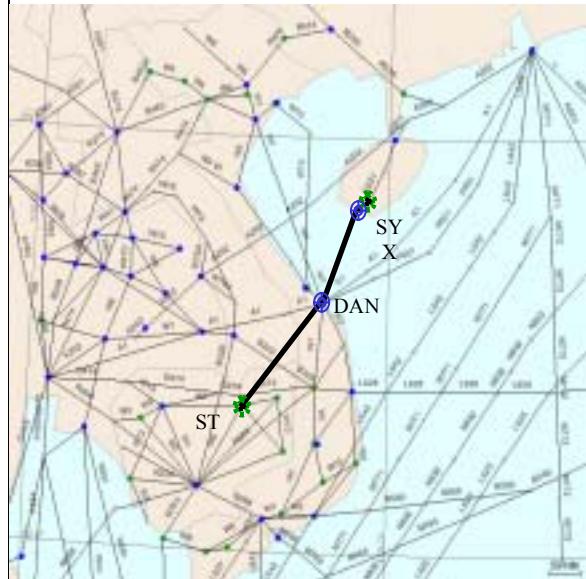
ENTRY/EXIT POINT
 STUNG TRENG (ST) – DANANG (DAN)

ROUTE DESCRIPTION
 Direct STUNG TRENG (ST) to
 DANANG (DAN)

FLIGHT LEVEL BAND
 29000 – 46000

PRIORITY: HIGH/MED/LOW
 MED

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	64 nm / 8 min	
Fuel	1040 kg	379,600kg
CO ₂	3200 kg	1168 tonnes
No _x		
SO ₂		

Remarks

Potential City Pairs: Singapore/ KL –Hainan/Hong Kong

ATS ROUTE NAME: SEA 6

REQUESTED BY: IATA

ENTRY/EXIT POINT
PAKSE - ASSAD

ROUTE DESCRIPTION

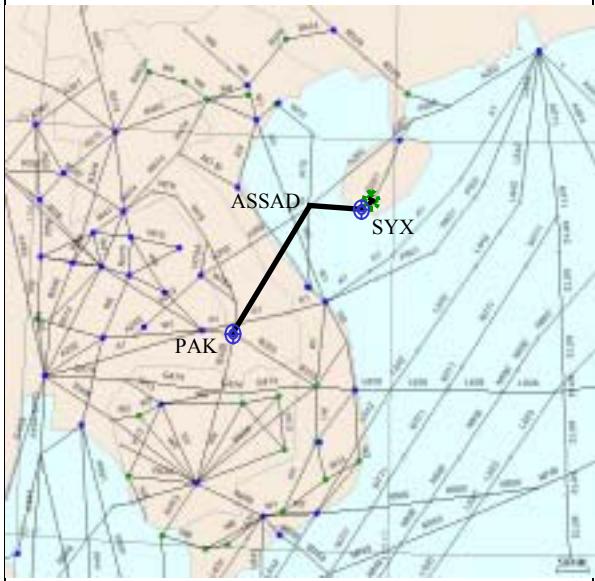
Direct PAKSE to ASSAD
FLIGHT LEVEL BAND

29000 – 46000 feet

PRIORITY: HIGH/MED/LOW

MED

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	126 nm / 16 min	
Fuel	2047 kg	747.338 kg
CO ₂	6300 kg	2299,500 kg
No _x		

Remarks

Potential City Pairs: KUL/SIN/Phnom Penh/JKT – Hainan/ Hong Kong

ATS ROUTE NAME: SEA 7

REQUESTED BY: IATA

ENTRY/EXIT POINT

ROUTE DESCRIPTION

PARDI ..BATAR

FLIGHT LEVEL BAND

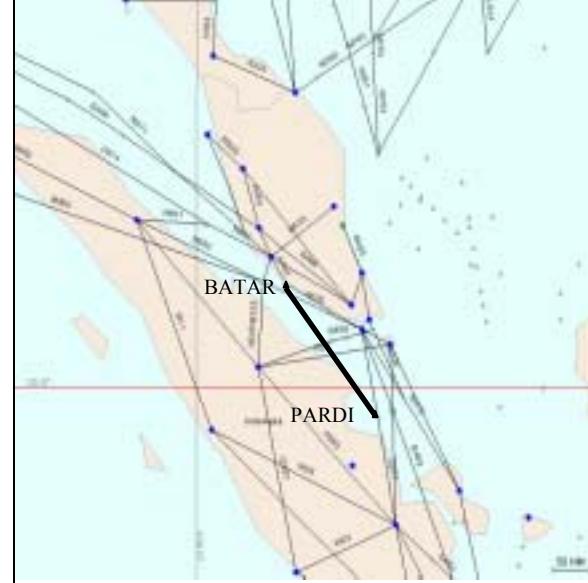
28000 –46000 FEET

PRIORITY: HIGH/MED/LOW

MED

UNIDIRECTIONAL ROUTE

CHART



Action Required

IATA

ICAO

Saving	Per flight	Annual
Mileage / Time		
Fuel		
CO ₂		
No _x		

Remarks

Potential City Pairs: Kuala Lumpur -Jakarta

ATS ROUTE NAME: SEA 8

REQUESTED BY: IATA

ENTRY/EXIT POINT

ROUTE DESCRIPTION

ARAMA..BOBAG..ANITO

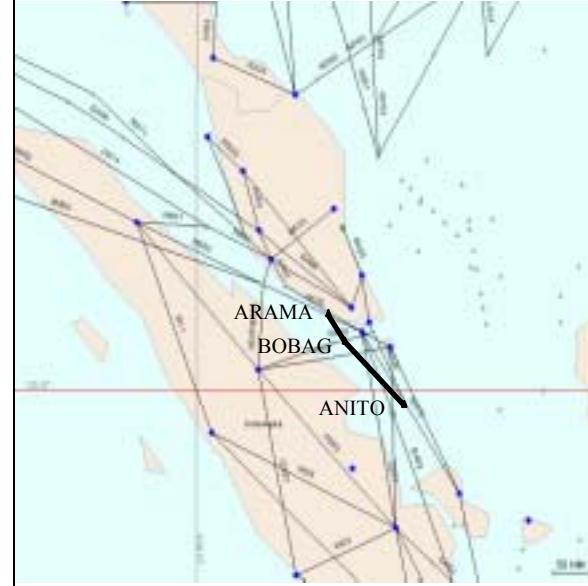
FLIGHT LEVEL BAND

28000- 46000 Feet

**PRIORITY: HIGH/MED/LOW
MED**

UNIDIRECTIONAL

CHART



Action Required	IATA
	ICAO

Remarks

Potential City Pairs:

Potential City Pairs: Kuala Lumpur – Jakarta

ATS ROUTE NAME: SEA 9

REQUESTED BY: IATA

ENTRY/EXIT POINT

ROUTE DESCRIPTION

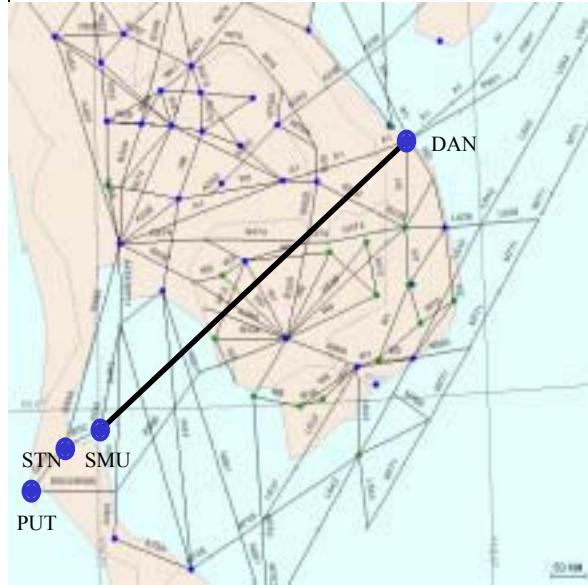
Danang (DAN) .. SAMUI (SMU)

FLIGHT LEVEL BAND

28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required

IATA

ICAO

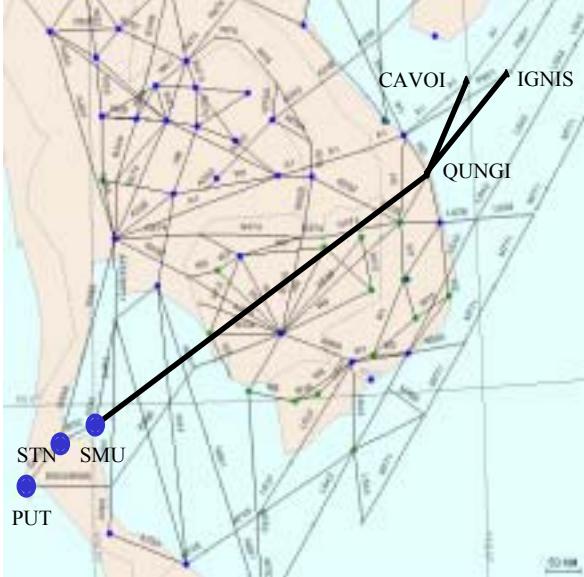
Saving	Per flight	Annual
Mileage / Time		
Fuel		
CO ₂		
No _x		

Remarks

Potential City Pairs: Colombo/Phuket- Pearl River Delta

ATS ROUTE NAME: SEA 10

REQUESTED BY: IATA

ENTRY/EXIT POINT XXXXX	CHART
ROUTE DESCRIPTION CAVOI and IGNIS .. Quangngai/QUNGI .. SAMUI (SMU)	
FLIGHT LEVEL BAND 28000 – 46000 feet	
PRIORITY: HIGH/MED/LOW	

Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time		
Fuel		
CO ₂		
No _x		

Remarks

Potential City Pairs: Colombo/ Phuket - Pearl River Delta

ATS ROUTE NAME: SEA11

REQUESTED BY: IATA

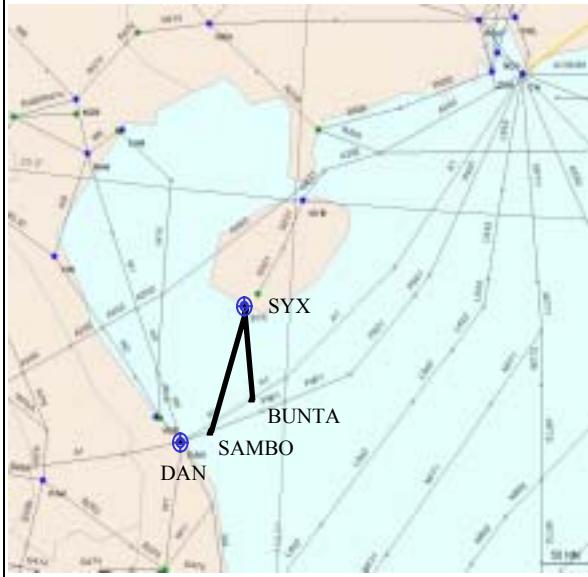
ENTRY/EXIT POINT
XXXXX

ROUTE DESCRIPTION
Danang (DAN) .. SAMBO .. Nanshan (SYX) and
Danang (DAN) .. BUNTA .. Nanshan (SYX)

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time		
Fuel		
CO ₂		
No _x		

Remarks

Potential City Pairs: South East Asia -Hainan

ATS ROUTE NAME: SEA 12

REQUESTED BY: IATA

ENTRY/EXIT POINT
ROT - HUGUANG

ROUTE DESCRIPTION

Direct ROT - HUGUANG

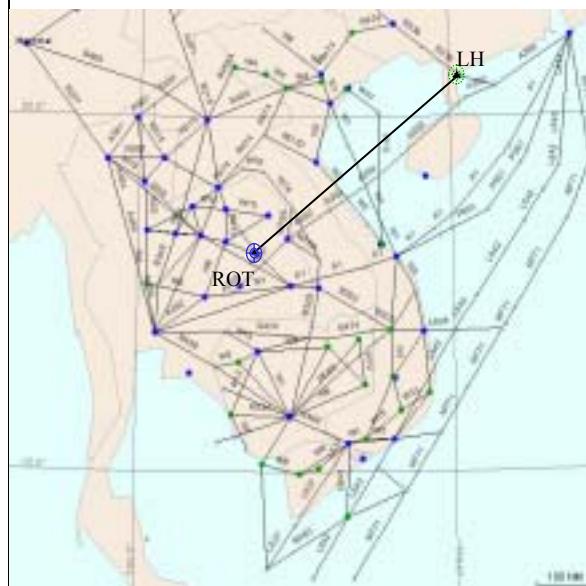
FLIGHT LEVEL BAND

29000 - 46000

PRIORITY: HIGH/MED/LOW

HIGH

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time		
Fuel		
CO ₂		
No _x		

Remarks

Potential City Pairs: KUL/SIN/Phnom Penh/JKT – SANYA/HKG

ATS ROUTE NAME: SCS1

REQUESTED BY: IATA

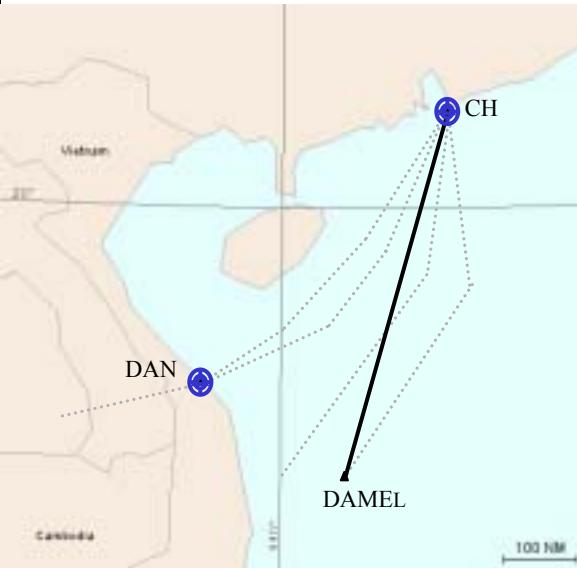
ENTRY/EXIT POINT
DAMEL / CH

ROUTE DESCRIPTION
DAMEL .. CH

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	35nm / 4mins	
Fuel	568kg	207594kg
CO ₂	1750kg	638,750kg
No _x		

Remarks

Potential City Pairs: Singapore-Pearl River Delta Airports

ATS ROUTE NAME: SCS2

REQUESTED BY: IATA

ENTRY/EXIT POINT
CH / VEPAM

ROUTE DESCRIPTION
CH .. VEPAM

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	17nm/ 2 mins	
Fuel	276kg	100,831kg
CO ₂	850kg	310,250kg
No _x		

Remarks

Potential City Pairs: Singapore-Pearl River Delta Airports

ATS ROUTE NAME: SCS3

REQUESTED BY: IATA

ENTRY/EXIT POINT
IDOSI / EXOTO

ROUTE DESCRIPTION
IDOSI .. EXOTO

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	15 nm / 2 mins	
Fuel	260kg	94,900kg
CO ₂	800kg	292,000kg
No _x		

Remarks

Potential City Pairs: Singapore-Pearl River Delta Airports

ATS ROUTE NAME: SCS4

REQUESTED BY: IATA

ENTRY/EXIT POINT
CS / VKL

ROUTE DESCRIPTION
CS .. VKL

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	18nm / 2.25 mins	
Fuel	292kg	106,763kg
CO ₂	900kg	328,500kg
No _x		

Remarks

Potential City Pairs: Kuala Lumpur-Pearl River Delta Airports

ATS ROUTE NAME: SCS5

REQUESTED BY: IATA

ENTRY/EXIT POINT
EXOTO / MELAS / LUSMO

ROUTE DESCRIPTION
**EXOTO .. DAMVO .. MELAS ..
LUSMO**

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	76nm/ 9.5 mins	
Fuel	1235kg	450,775kg
CO ₂	3800kg	1,387 tonnes
No _x		

Remarks

Potential City Pairs: Jakarta- Pearl River Delta Airports

ATS ROUTE NAME: SCS6

REQUESTED BY: IATA

ENTRY/EXIT POINT
LUSMO / MELAS / DALBA

ROUTE DESCRIPTION
LUSMO .. MELAS .. DAMVO

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	85nm/ 10.5 mins	
Fuel	1381kg	504,156kg
CO ₂	4,250kg	1,551,250kg
No _x		

Remarks

Potential City Pairs: Jakarta- Pearl River Delta Airports

ATS ROUTE NAME: SCS7

REQUESTED BY: IATA

ENTRY/EXIT POINT
DULOP/ M772 / LAXOR / XXXXX /
BRU

ROUTE DESCRIPTION
DULOP M772 LAXOR .. XXXXX ..
BRU

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	60nm/ 7.5mins	
Fuel	975kg	355,875kg
CO ₂	3000kg	1,095 tonnes
No _x		

Remarks

Potential City Pairs: Pearl River Delta Airports-Bali/ Surabaya/ Perth

ATS ROUTE NAME: SCS 8

REQUESTED BY: IATA

<p>ENTRY/EXIT POINT</p> <p>1. DULOP / ELATO(ENVAR)</p> <p>2. DULOP / KAPLI</p> <p>ROUTE DESCRIPTION</p> <p>DULOP .. ELATO (A1)/ENVAR (M750) or DULOP .. KAPLI (G86)</p> <p>FLIGHT LEVEL BAND 28000 – 46000 feet</p> <p>PRIORITY: HIGH/MED/LOW</p>	<p>CHART</p>
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Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	a.DULOP/ENVAR 140nm/17.5min b.DULOP/KAPLI 238nm/ 30min	
Fuel	a.2275kg b.3867kg	a.830,000kg b.1,411 tonnes
CO ₂	a. 7000kg b.11,900kg	a.2,555tonnes b.4,343 tonnes
No _x		

Remarks

Potential City Pairs: SEAsia-North Asia Airports

ATS ROUTE NAME: SCS 9

REQUESTED BY: IATA

<p>ENTRY/EXIT POINT</p> <ol style="list-style-type: none"> 1. ENDAX (FIR Boundary between Oakland and Manila FIRs) or DILIS on G467 2. TOKON on M767 (Manila FIR) <p>ROUTE DESCRIPTION ENDAX .. TOKON or DILIS .. TOKON</p> <p>FLIGHT LEVEL BAND 28000 – 46000 feet</p> <p>PRIORITY: HIGH/MED/LOW (Immediate request with DILIS – TOKON)</p>	<p>CHART</p>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------

Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	a.TOKON-DILIS 45nm/ 5.5in b.TOKON-ENDAX 110nm/14min	
Fuel	a.731kg b. 1788kg	a.266,906kg b.652,440kg
CO ₂	a.2250kg b.5,500kg	a.821,250kg b.2,007 tonnes
No _x		

Remarks

Potential City Pairs: SEA –San Francisco/Los Angeles

ATS ROUTE NAME: PHI 1

REQUESTED BY: IATA

ENTRY/EXIT POINT

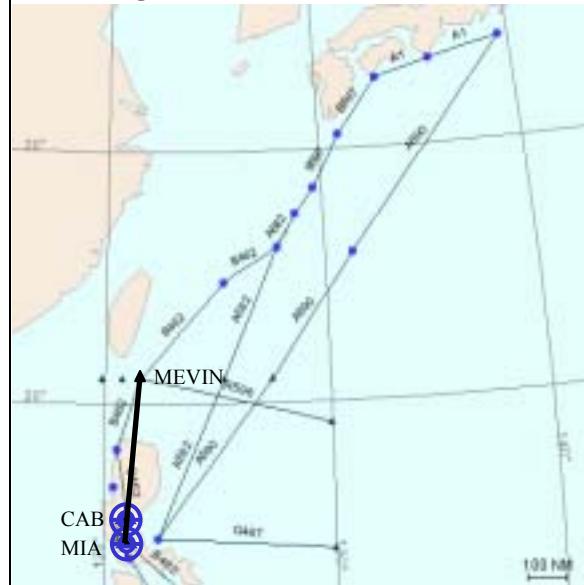
ROUTE DESCRIPTION

Manila (MIA) .. MEVIN or
Cabanatuan (CAB) .. MEVIN

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required

IATA

ICAO

Saving

Per flight

Annual

Mileage / Time

11nm/1.5min

Fuel

179kg

59,300kg

CO₂

550kg

200,750kg

No_x

Remarks

Potential City Pairs: Philippines-Japan/North America

ATS ROUTE NAME: PHI 2

REQUESTED BY: IATA

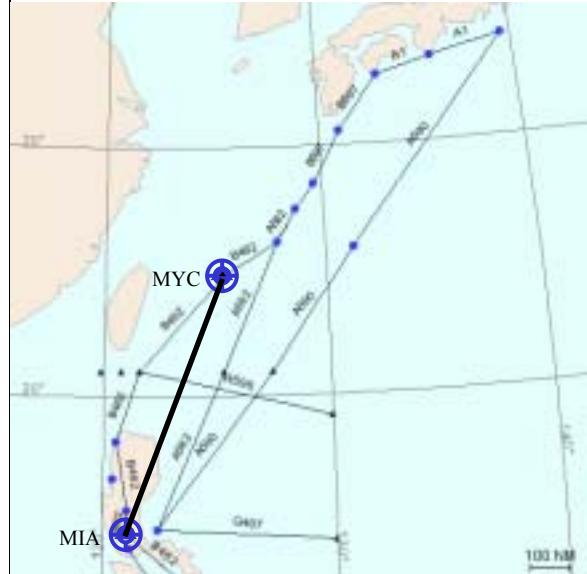
ENTRY/EXIT POINT
XXXXX

ROUTE DESCRIPTION
Manila (MIA) .. XXXXX .. Miyakojima (MYC)

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	46nm/ 6min	
Fuel	748kg	272800kg
CO ₂	2,300kg	839,000kg
No _x		

Remarks

Potential City Pairs: Philippines-Japan/North America

ATS ROUTE NAME: TWN1

REQUESTED BY: IATA

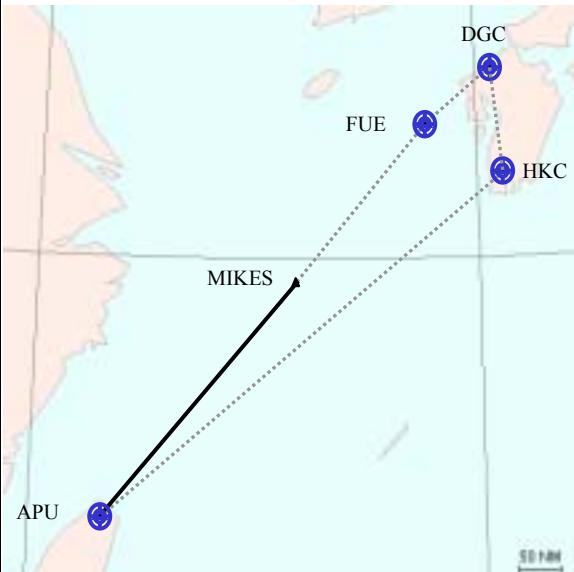
ENTRY/EXIT POINT
APU / XXXXX / MIKES

ROUTE DESCRIPTION
APU- MIKES

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	40nm/ 5min	
Fuel	650kg	237,000kg
CO ₂	2,000kg	730,000kg
No _x		

Remarks

Potential City Pairs: SEA/HKG/TPE-Fukuoka

ATS ROUTE NAME: THA1

REQUESTED BY: IATA

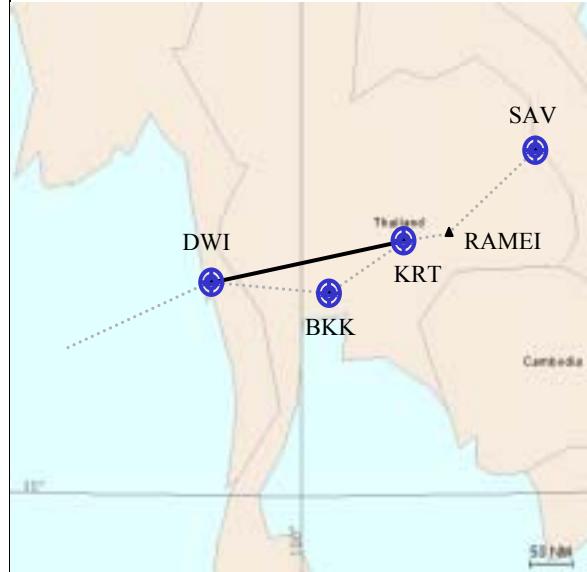
**ENTRY/EXIT POINT
KRT / DWI**

**ROUTE DESCRIPTION
KRT .. DWI**

**FLIGHT LEVEL BAND
28000 – 46000 feet**

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	15nm/ 2min	
Fuel	245kg	89,000kg
CO ₂	750kg	274,000kg
No _x		

Remarks

Potential City Pairs:

ATS ROUTE NAME: IDO1

REQUESTED BY: IATA

ENTRY/EXIT POINT
SJ / MABIX

ROUTE DESCRIPTION
SJ .. MABIX

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



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

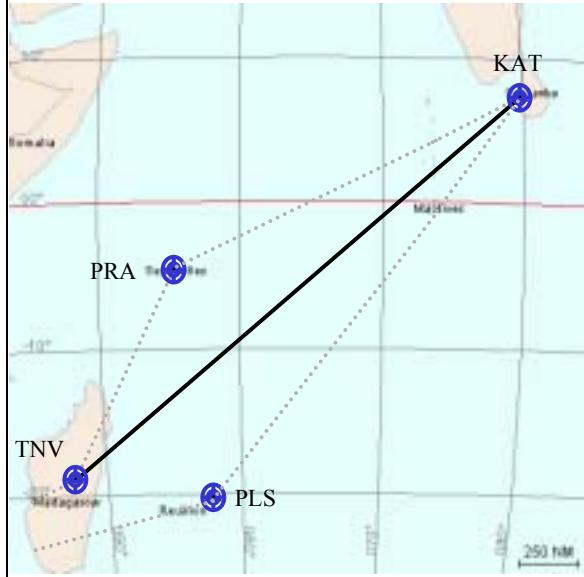
ENTRY/EXIT POINT
KAT / TNV

ROUTE DESCRIPTION
KAT .. TNV (ANTANANARIVO)

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



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

**ENTRY/EXIT POINT
HANGU / XXXXX / GN**

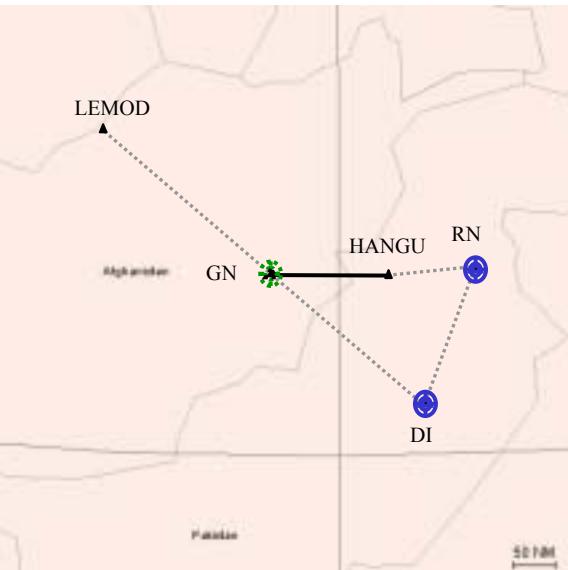
**ROUTE DESCRIPTION
HANGU -GN**

**FLIGHT LEVEL BAND
28000 – 46000 feet**

PRIORITY: HIGH/MED/LOW

HIGH

CHART



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:

ATS ROUTE NAME: WPC 1

Requested by : IATA

ENTRY/EXIT POINT
PY-TINHO

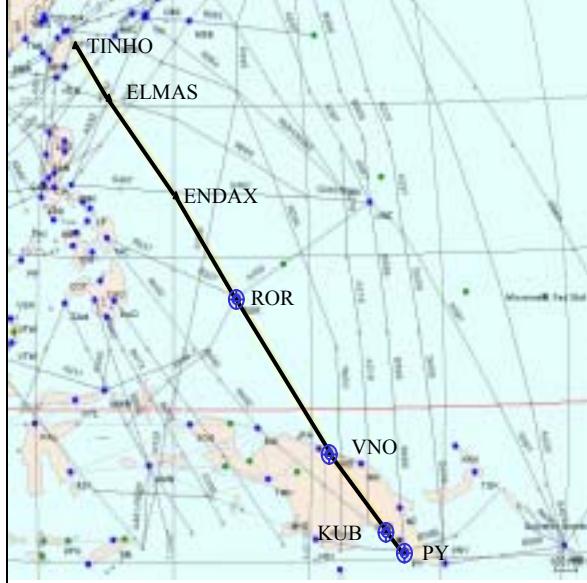
ROUTE DESCRIPTION

Port Moresby (PY) Vanimo (VNO) ..
Koror (ROR) .. ENDAX .. ELMAS ..
TINHO

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW
HIGH

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	160 nm/20min	
Fuel	2600kg	949,000kg
CO ₂	8000kg	2,920 tonnes
No _x		

Remarks

Potential City Pairs: Auckland-Taipei.

ATS ROUTE NAME: CHA 1 (Renumbered from CHA5)

REQUESTED BY: IATA

ENTRY/EXIT POINT

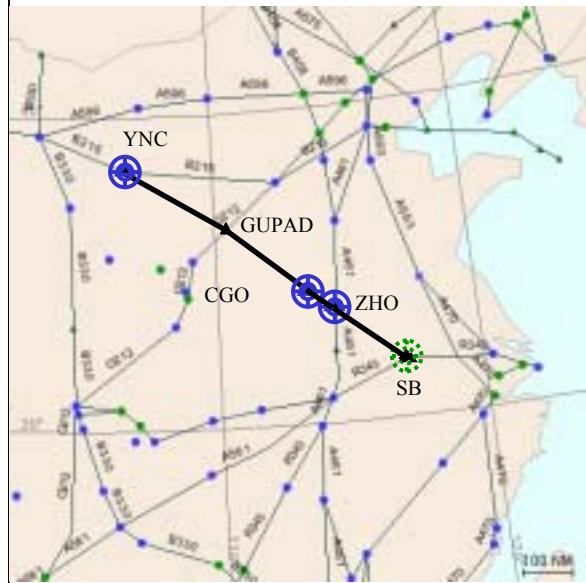
ROUTE DESCRIPTION

Yinchuan (YNC) .. GUPAD ..
 Zhengzhou (CGO) .. Zhoukou (ZHO) ..
 Luogang (SB)

FLIGHT LEVEL BAND
 8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



Action Required

IATA

ICAO

Saving

Per flight

Annual

Mileage / Time

Fuel

CO₂

No_x

Remarks

Potential City Pairs: Europe-Shanghai

ATS ROUTE NAME: CHA2 (Renumbered from CHA 7)

REQUESTED BY: IATA

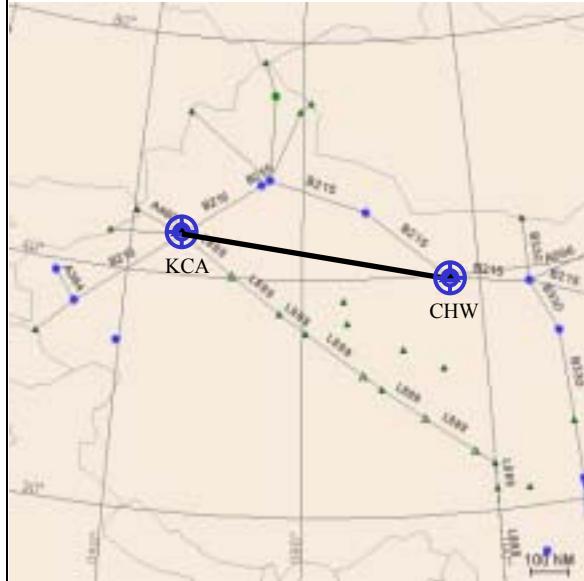
ENTRY/EXIT POINT

ROUTE DESCRIPTION
Kuqa (KCA) .. Jiayuguan (CHW)

FLIGHT LEVEL BAND
8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	93nm/ 12min	
Fuel		
CO ₂		
No _x		

Remarks

Potential City Pairs: Middle East/Pakistan-China/Korea/Japan

ATS ROUTE NAME: CHA 3 (Renumbered from CHA 9A)
REQUESTED BY: IATA

ENTRY/EXIT POINT

ROUTE DESCRIPTION
Fukang (FKG) .. OMBON

FLIGHT LEVEL BAND
8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART**Action Required**

IATA

ICAO

Saving

Per flight

Annual

Mileage / Time

123nm/ 15.5min

Fuel

2000kg

730,000kg

CO₂

6,150kg

2,245 tonnes

No_x**Remarks**

Potential City Pairs: Europe/Russia-Pearl River Delta Airports

ATS ROUTE NAME: CHA4 (Renumbered from CHA 10A)

REQUESTED BY: IATA

ENTRY/EXIT POINT

ROUTE DESCRIPTION

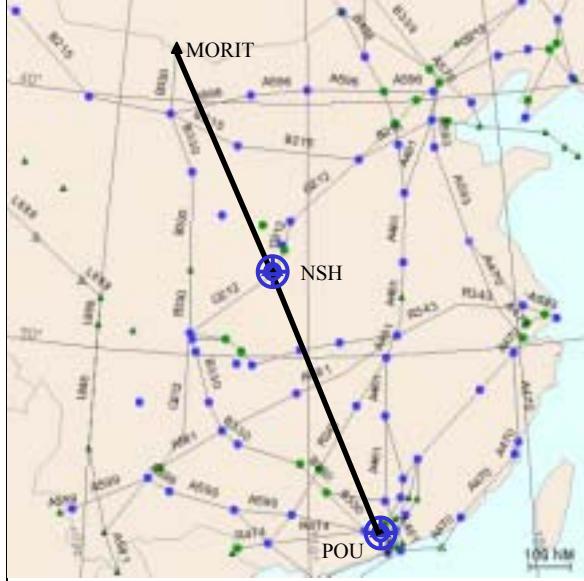
MORIT .. Ningshan (NSH) .. Pingzhou
(POU)

FLIGHT LEVEL BAND

8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	152nm/ 19min	
Fuel	2470kg	901,000kg
CO ₂	7,600kg	2,774 tonnes
No _x		

Remarks

Potential City Pairs: Europe Russia-Pearl River Delta Airports

ATS ROUTE NAME: CHA 5 (Renumbered from CHA 11A)

REQUESTED BY: IATA

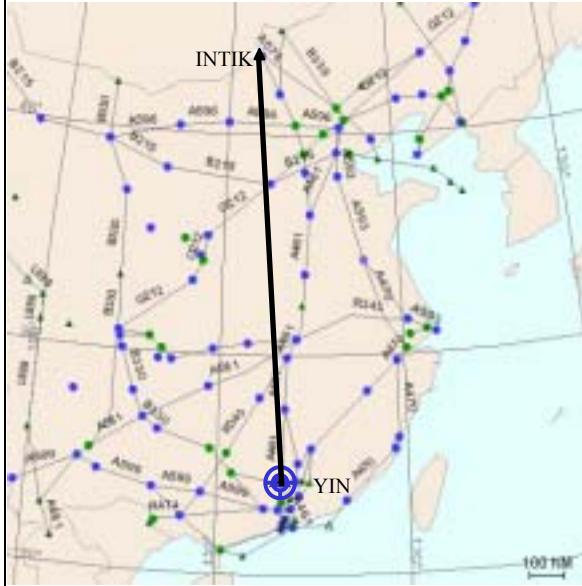
ENTRY/EXIT POINT

ROUTE DESCRIPTION
Yingde (YIN) .. INTIK

FLIGHT LEVEL BAND
8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	140nm/17.5min	
Fuel	2275kg	830,000kg
CO ₂	7,000kg	2,555 tonnes
No _x		

Remarks

Potential City Pairs: Europe/Russia –Pearl River Delta Airports

ATS ROUTE NAME: CHA 6 (Renumbered from CHA 14)

REQUESTED BY: IATA

ENTRY/EXIT POINT

ROUTE DESCRIPTION

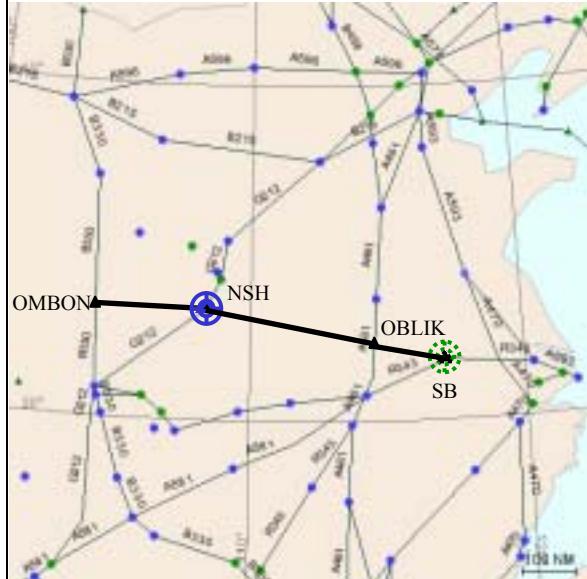
OMBON .. Ningshan (NSH) .. OBLIK ..
Luogang (SB)

FLIGHT LEVEL BAND

8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Remarks

Potential City Pairs: Europe-Shanghai

ATS ROUTE NAME: CHA 7 (Renumbered from CHA 15)

REQUESTED BY:IATA

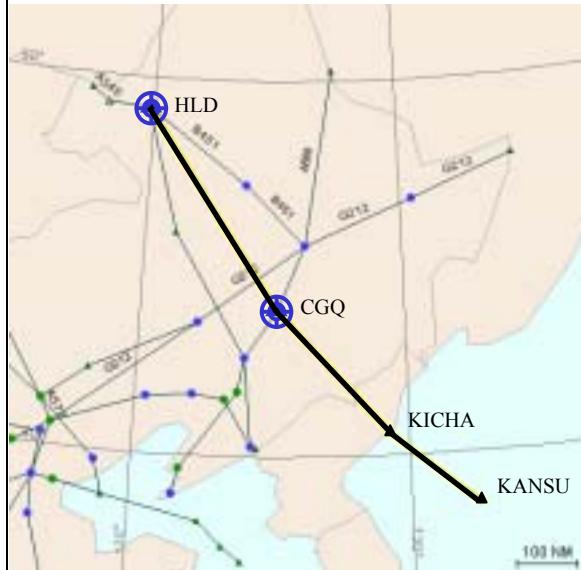
ENTRY/EXIT POINT
KANSU/XXXXX

ROUTE DESCRIPTION
KANSU .. KICHA .. Changchun (CGQ)
.. Hailar (HLD)

FLIGHT LEVEL BAND
8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time		
Fuel		
CO ₂		
No _x		

Remarks

Potential City Pairs: Europe-Korea /Japan

ATS ROUTE NAME: CHA 8 (Renumbered from CHA 16)

REQUESTED BY: IATA

ENTRY/EXIT POINT	CHART
ROUTE DESCRIPTION Shache (SCH) .. Hotan (HTN) .. Jiayuguan (CHW)	
FLIGHT LEVEL BAND 8400 – 15000 meters	
PRIORITY: HIGH/MED/LOW	

Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	69nm/9min	
Fuel	1121kg	409,000kg
CO ₂	3,450 kg	1,260 tonnes
No _x		

Remarks

Potential City Pairs: Middle East /Pakistan-China/Korea/Japan

ATS ROUTE NAME: CHA 9 (Renumbered from CHA 17)

REQUESTED BY: IATA

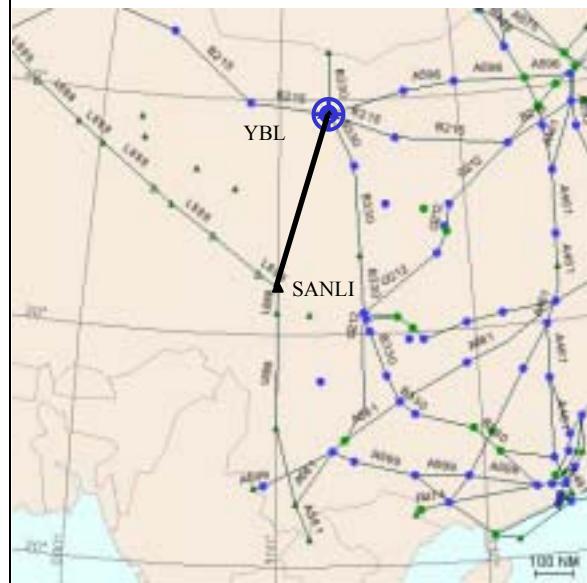
ENTRY/EXIT POINT

ROUTE DESCRIPTION
Yabrai (YBL) .. SANLI

FLIGHT LEVEL BAND
8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA.
	ICAO

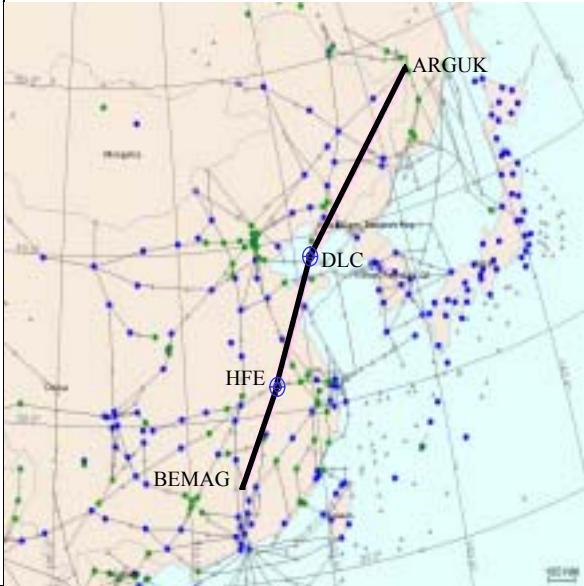
Saving	Per flight	Annual
Mileage / Time	48nm/ 6min	
Fuel	780kg	284,000kg
CO ₂	2,400kg	876,000kg
No _x		

Remarks

Potential City Pairs: North America-SE Asia

ATS ROUTE NAME: CHA 10 (Renumbered from CHA18-formerly SE1 in CTF/2000)

REQUESTED BY: IATA

ENTRY/EXIT POINT	CHART
ARGUK/BEMAG	
ROUTE DESCRIPTION	
ARGUK/DALIAN/HEFEI/BEMAG	
FLIGHT LEVEL BAND	
8400-15000 metres	
PRIORITY: HIGH/MED/LOW	
HIGH	 An aeronautical chart showing flight routes between ARGUK, DLC, HFE, and BEMAG. The chart displays a network of routes with various colors and symbols representing different flight levels and paths. A thick black line highlights a specific route segment connecting ARGUK, DLC, HFE, and BEMAG.

Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time		
Fuel		
CO ₂		
No _x		

Remarks

Potential City Pairs: North America- Pearl River Delta

ATS ROUTE NAME: CHA 11 (Renumbered from CHA19 formerly SE2 in CTF/2000)

REQUESTRED BY:IATA

ENTRY/EXIT POINT

DALIAN/(DLC) to XJT/B221

ROUTE DESCRIPTION

DALIAN/ XJT /B221

FLIGHT LEVEL BAND

8400-15000 metres

PRIORITY: HIGH/MED/LOW

HIGH



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time		
Fuel		
CO ₂		
No _x		

Remarks

Potential City Pairs: North America-Shanghai

ATS ROUTE NAME: IATA 1

REQUESTED BY: IATA

ENTRY/EXIT POINT

ROUTE DESCRIPTION

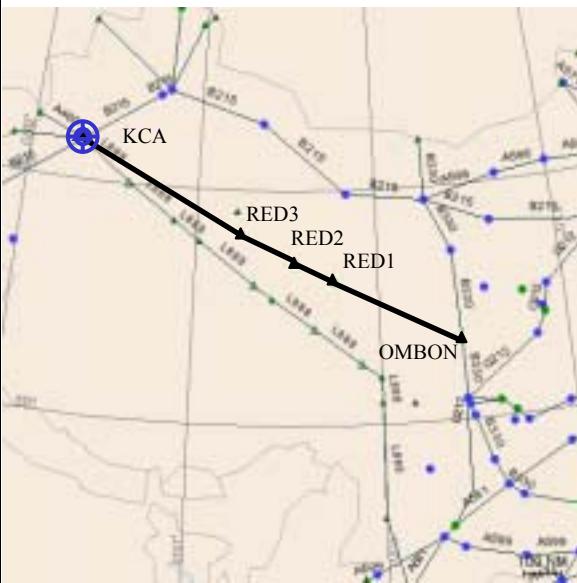
Kuqa (KCA) .. RED3 .. RED2 .. RED1 .. OMBON

FLIGHT LEVEL BAND

8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



Action Required

IATA

ICAO

Saving

Per flight

Annual

Mileage / Time

Fuel

CO₂

No_x

Remarks

Potential City Pairs: Europe –Pearl River Delta Airports

ATS ROUTE NAME: IATA 2

REQUESTED BY: IATA

ENTRY/EXIT POINT

ROUTE DESCRIPTION

FLIGHT LEVEL BAND
8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time		
Fuel		
CO ₂		
No _x		

Remarks

Potential City Pairs: Europe –Pearl River Delta Airports

ATS ROUTE NAME: IATA 3

REQUESTED BY: IATA

ENTRY/EXIT POINT

ROUTE DESCRIPTION

FLIGHT LEVEL BAND
8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time		
Fuel		
CO ₂		
No _x		

Remarks

Potential City Pairs: Europe-Shanghai

ATS ROUTE NAME: PRD 1

ENTRY/EXIT POINT
SIERA / XXXXX / ZUH

ROUTE DESCRIPTION
POU .. ZUH .. SIERA

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	80nm/ 10min	
Fuel	1300kg	475,000kg
CO ₂	4,000kg	1,460 tonnes
No _x		

Remarks

Potential City Pairs: Mainland China/Pearl River Delta Airports to SEAsia

ATS ROUTE NAME: PRD 2

ENTRY/EXIT POINT SIERA / XXXXX / ZUH	ROUTE DESCRIPTION POU .. ZUH .. SIERA .. SIKOU	CHART
FLIGHT LEVEL BAND 28000 – 46000 feet	PRIORITY: HIGH/MED/LOW	

Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	80nm/10 mins	
Fuel	1,300kg	474,000kg
CO ₂	4,000kg	1,460 tonnes
No _x		

Remarks

Potential City Pairs: Mainland China /Pearl River Delta Airports to SEAsia

ATS ROUTE NAME: RUS 1

Requested by : IATA

ENTRY/EXIT POINT	CHART
ROUTE DESCRIPTION	
SESUR .. Gangwon (KAE)	
FLIGHT LEVEL BAND	
28000 – 46000 feet	
PRIORITY: HIGH/MED/LOW	

Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	121nm/15min	
Fuel	1966kg	717,000kg
CO ₂	6050kg	2,208 tonnes
No _x		

Remarks

Potential City Pairs: North America- Inchoen

ATS ROUTE NAME: RUS 2

Requested by : IATA

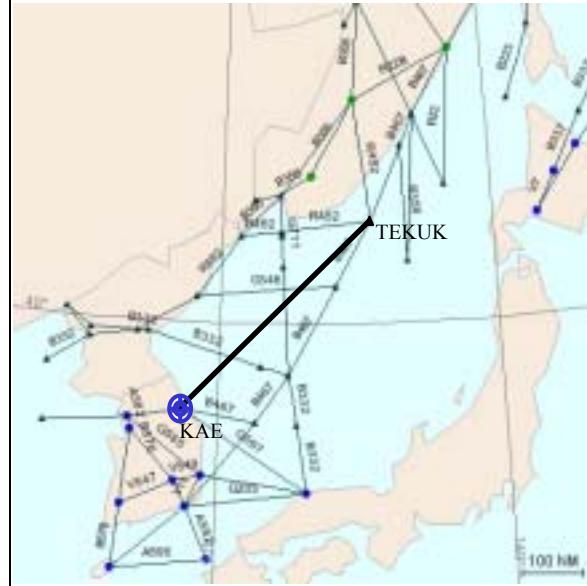
ENTRY/EXIT POINT

ROUTE DESCRIPTION
TEKUK .. Gangwon (KAE)

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	67nm/8mins	
Fuel	1088kg	1,222 tonnes
CO ₂	3350kg	397400kg
No _x		

Remarks

Potential City Pairs: North America- Inchoen

ATS ROUTE NAME: RUS 3

Requested by : IATA

ENTRY/EXIT POINT	CHART
ROUTE DESCRIPTION Muraveyka (BG) .. TELOD .. Gangwon (KAE)	
FLIGHT LEVEL BAND 28000 – 46000 feet	
PRIORITY: HIGH/MED/LOW	

Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	136/17mins	
Fuel	2,194kg	800,000kg
CO ₂	6750kg	2,464 tonnes
No _x		

Remarks

Potential City Pairs: North America- Inchoen

CONSOLIDATED CHART OF USERS REQUESTED ROUTES IN CHINA

