



Agenda Item 4: ATS route realignment

ASIA/PACIFIC REGION ATS ROUTE CATALOGUE

(Presented by the Secretariat)

SUMMARY

This paper presents an excerpt of the *Asia and Pacific Region ATS Route Catalogue* Version 13 for review and consideration.

1. INTRODUCTION

1.1 Version 13 of the *Asia/Pacific ATS Route Catalogue* as endorsed by the Twenty-fifth Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG) is available at the ICAO Asia/Pacific website (<http://www.bangkok.icao.int/>) under the menu ‘APAC eDocuments’. The Catalogue records the current status of the international route requirements in the *Basic Air Navigation Plan* (BANP, Volume I of Doc 9673) and does not require any formal approval to be included in the Catalogue.

1.2 The Route Catalogue provides two functions – it contains updated information from the Regional Air Navigation Plan (Doc 9673), until such time as this is in electronic form, and it contains a number of proposals for route changes that have not been agreed by States yet. The structure of the Catalogue is as follows:

- Chapter A: The unofficial but electronic, up-to-date version of the BANP;
- Chapter 1: Route Requirements Users and States (South Asia);
- Chapter 2: Route Requirements Users and States (Southeast Asia);
- Chapter 3: Route Requirements Users and States (East Asia/Russian Federation); and
- Chapter 4: Route Requirements Users and States (Pacific).

2. DISCUSSION

2.1 An excerpt of Version 13 of the ATS Route Catalogue is at **Attachment A**.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) consider and update the status of the route proposals in Chapter 3; and
- c) discuss any relevant matters as appropriate.

.....

EAT/SCM/2 – WP06 Attachment A
22-23/09/2014

ASIA/PACIFIC REGION ATS ROUTE CATALOGUE

(Eurasia SCM/2 Version)



INTERNATIONAL CIVIL AVIATION ORGANIZATION
ASIA/PACIFIC REGIONAL OFFICE

VERSION 13

11 September 2014

Table of Contents

Table of Contents	i
Foreword	iii
Amendment to BANP and Catalogue	v
Amendment Record	viii
Chapter A: Routes in BANP	1
Chapter 1: Route Requirements Users and States (South Asia)	23
Chapter 2: Route Requirements Users and States (Southeast Asia)	35
Chapter 3: Route Requirements Users and States (East Asia/Russian Federation)	56
Chapter 4: Route Requirements Users and States (Pacific)	96

Foreword

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

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

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

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 ATS Route Catalogue, will update the Route Catalogue from time to time as amendment proposals are presented, progressed and agreed or not agreed. The revision number and date shown on the cover page of the catalogue, which is posted on the ICAO APAC website (<http://www.bangkok.icao.int/>).

The Reformatted ATS Route Catalogue is now revised as follows:

Chapter A: Routes in BANP

Chapter 1, 2, 3 and 4: Future Requirements – Users & States

Chapter A lists ATS routes which have been contained in the BANP. Chapter A will be amended by the Regional Office subsequent to approval of an amendment to the BANP by the President of the Council. It is expected that Chapter A will become redundant when the electronic ANP (e-ANP) formats become available in 2013.

Note: — As the ATS Route Catalogue Chapter A 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.

Chapters 1 to 4 list ATS routes proposed by States and international organizations in accordance with their geographical disposition. These routes have not been included in the BANP or implemented, and have no specific status, other than having been presented as a proposal and subject to consultation and review.

Regional ATS route proposals affecting Asia/Pacific airspace should be presented as part of a paper to ATM coordination groups or other suitable bodies, and then may be entered into the Route Catalogue by the Regional Office. The Regional Office will periodically present to appropriate ATM coordination groups or other suitable bodies the proposals within their geographical area of interest for review. After review, the ATS Route Catalogue may be updated by:

- Amendment to transfer proposals to Chapter A that have been agreed after subsequent proposal for amendment of the BANP; or
- Deletion of the proposal when it has been decided that there is no possibility of implementation in the foreseeable future; or
- Amendment with the addition of supplementary information; or
- Addition of a new ATS route proposal.

Amendment Record

Version/Amendment Number	Date	Amended by	Comments
0.1	14 February 2005	-	ARNR/TF/2 developed the draft version.
0.2	5 May 2005	ARNR/TF/3	Finalized the format following contribution from the members.
0.3	29 July 2005	ATM/AIS/SAR/SG/15	Sub-Group concluded that the Catalogue be adopted (Draft Conclusion 15/3).
1	26 August 2005	APANPIRG/16	APANPIRG/16 decided that the Catalogue be accepted (Decision 16/9).
2	24 January 2006	BBACG/17	Reviewed and updated the Catalogue.
3	19 May 2006	SEACG/13	Reviewed and updated the Catalogue.
4	26 January 2007	BBACG/18	Reviewed and updated the Catalogue.
5	23 May 2008	SEACG/15	Reviewed and updated the Catalogue.
6	15 May 2009	SEACG/16	Reviewed and updated the Catalogue.
7	27 May 2010	SEACG/17	Reviewed and updated the Catalogue.
8	10 March 2011	BBACG/21	Reviewed and updated the Catalogue.
9	6 May 2011	SEACG/18	Reviewed and updated the Catalogue.
10	22 September 2011	SAIOACG/1	Reviewed and updated the Catalogue.
11	22 June 2012	ATM/AIS/SAR/SG/22 APANPIRG/23	Reviewed, reformatted, and updated the Catalogue, approved by APANPIRG/23.
12	26 June 2013	SAIOACG/SEACG, ATM/SG	Reviewed, reformatted, and updated the Catalogue, approved by APANPIRG/24.
13	????	???	Reviewed subsequent to Easter Island being transferred out of the Region; added European trans-regional proposals

Chapter A: Routes in BANP

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

LOWER ATS ROUTES		NONGT LUANG PRABANG	
A1	LIMLA 1546.0N 09836.0E BANGKOK UBON DANANG BUNTA IKELA 1839.7N 11214.7E CHEUNG CHAU ELATO 2220.0N 11730.0E MAKUNG TAIBEI KAGOSHIMA MIYAKE JIMA HACHIJO JIMA (APAC 14/01 – ATS)	A211	MANADO TARAKAN TAWAU
		A212	PUPIS PAGO PAGO NIUE
		A215	PORT MORESBY MERAUKE HASANUDDIN KEVOK 0425.0S 11500.0E
		A216	COOKTOWN AKMIP 1200.0S 14448.6E KIKORI GUNNY 0500.00N 14400.00E RICHH 1711.49N 14249.12E
A91	(KYAKHTA) SERNA 5018.5N 10628.1E ULAN BATOR	A218	HARBIN (EKIMCHAN) (MYS SHMIDTA) BARROW
A201	LASHIO AGARTALA RAJSHAHI MONDA 2521.00N 08626.25E PATNA LUCKNOW	A219	KARACHI NAWABSHAM KALAT 2902.0N 06635.0E SERKA 2951.0N 06615.0E KANDAHAR (TERMEZ)
A202	CHEUNG CHAU SIKOU 2050.6N 11130.0E SAMAS 2030.3N 11029.7E ASSAD 182028N 1074053E XONUS 1804.2N 10714.0E DONGHOI VILAO 1718.0N 10600.0E SAVANNAKET KORAT BANGKOK	A220	CLUKK 3605.0N 12450.0E TAHITI
		A221	GUAM ROTA IS TINIAN IS SAIPAN
A204	YOROI 4500.5N 14147.1E RISHIRI AKSUN 4545.1N 14054.3E (SEITI) (4713.3N 14013.3E)	A222	GUAM POHNPEI KOSRAE KWAJALEIN
A206	Proposed by Vietnam and Laos ASSAD VINH	A224	JOHOR BAHRU MERSING

A325	PRARATAPGARH TASOP 2514.1N 07045.0E KARACHI JIWANI	A344	ROZAX 0245.6S 11140.0E SUMBAWA
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	A345	PYONGYANG GOLOT 4012.5N 12430.5E FENGCHENG KAIYUAN HAILAR KAGAK 4916N 11806E MANLI 4935N 11727E TELOK 4938N 11722E (CHITA)
A331	ZIGIE 2419.0N 15717.5W SEDAR 4530.4N 12643.0W	A346	HAMILTON IS AUCKLAND
A332	APACK 2402.8N 15619.3W AMITY 2626.0N 15229.0W HEMLO 4318.2N 12640.8W	A347	MUMBAI BODAR 2236.3N 07413.3E PRATAPGAPH DELHI
A334	HAT YAI KOTA BHARU	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 KISME 0500.0N 14805.4E	A364	SHACHE KASHI KURUM 4006.0N 07407.0E
A338	CHRISTCHURCH APORO 5000.0S 17120.0E BYRD	A450	DENPASSAR HASSANUDDIN CAHYO 033000N 1333000E YAP IS GUAM WAKE KATHS 2104.6N 16123.4W
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 YOSHI MIYAKE JIMA (APAC 14/01 – ATS)	A453	(KANDAHAR) (ZAHEDAN) (BANDER ABBAS)
A340	RAYONG BISOR 1221.0N 10247.0E PHNOM PENH	A454	KARACHI PARET 2527.2N 06451.5E TAPDO 2424.0N 06120.0E (VUSET)
A341	KOTA KINABALU SANDAKAN ZAMBOANGA	A455	PESHAWAR METAR 3406.0N 07128.0E KOTAL 3406.0N 07109.0E
A342	COLD BAY OLCOT 5125.8N 16533.3E	A456	AMRITSAR LAHORE MOLTA 3012.0N 07236.2E BINDO

A457	HAT YAI TAMOS 0632.2N 10024.0E ALOR SETAR PENANG KUALA LUMPUR JOHOR BAHRU		COLOMBO
A460	KUQA REVKI 4232.5N 8013.2E (KIRBALTABAY)	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
A461	DAWANGZHUANG WEIXIAN 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	A467	BIRATNAGAR KATIHAR KOLKATA
		A468	KUQA KAMUD 4134.0N 07850.0E
		A469	HO CHI MINH CONSON IS
		A470	HONG KONG MAGOG 2217.3N 11549.4E SHANTOU XINGLIN FUZHOU YUNHE TONGLU HANGZHOU LISHUI BANTA PIXIAN
		A472	KOTAL 3406.0N 07109.0E METAR 3406.0N 07128.0E BAREV 3406.0N 07135.0E PESHAWAR
A462	KOLKATA DHAKA	A474	DELHI ASOVO MUMBAI MURUS 0600.0S 06319.7E (PLAISANCE)
A464	CHIANG MAI BANGKOK HAT YAI IPOH BATU ARANG KUALA LUMPUR SINGAPORE TINDAL TAROOM LORD HOWE IS AUCKLAND	A575	PYONGYANG GOLOT 4012.5N 12430.5E FENGCHENG DONGYANGJIAO DAHUSHAN CHAOYANG ANDIN 4106.0N 11843.5E GUBEIKOU FENGNING EREN
A465	KOLKATA VISHAKAPATNAM CHENNAI		

	INTIK 4341.5N 11155.0E		
	SAINSHAND	A583	HONG KONG
	ULAN BATOR		SABNO 1859.1N 11550.7E
	(KYZYL)		MAVRA 1814.4N 11615.1E
A576	MEDAN		AKOTA 1706.6N 11651.6E
	SINGAPORE		IBOBI 1354.4N 11832.6E
	DENPASAR		REKEL 1324.1N 11848.3E
	CURTIN		LEGED 1301.9N 11859.6E
	ALICE SPRINGS		TOKON 1142.0N 11940.3E
	PARKES		ZAMBOANGA
	SYDNEY	A584	TONGA
A577	SHIKANG		NIUE
	KADET 2100.0N 11934.0E		APIA
A578	TONIK 3200.0N 14600.0E		FUNAFUTI
	PHONPEI		NAURU
	NAURU	A585	PALEMBANG
	TARAWA		JAKARTA
	NADI		PORT HEDLAND
	AUCKLAND		CEDUNA
A579	SYDNEY		ADELAIDE
	NADI	A586	INTOS 3722.00N 13120.00E
	CARRP 1904.4N 15935.0W		PUSAN
A580	AUCKLAND		CHEJU
	NAUSORI		ERABU
	APIA		NAHA
A581	BAGO	A587	SUMBAWA
	CHIANG MAI		ALICE SPRINGS
	CHIANG RAI	A588	DALIAN
	PONUK 2018.8N 10023.0E		WAFANGDIAN
	SAGAG 2111.5N 10137.4E		WANGBINGOU
	BIDRU		KAIYUAN
	KUNMING		CHANGCHUN
	MAGUOHE		HARBIN
	QIANXI		SIMLI 5017.4N 12722.1E
	HUAYUAN	A589	DELHI
	LINLI		BUTOP 2919.7N 07523.9E
	WUHAN		ASARI 3048.3N 07509.5E
A582	JOMALIG	A590	JOMALIG
	CHINEN		MINAMI DAITO
	NAHA		YOSHI 3310.2N 13857.4E
	KAGOSHIMA		MIYAKEJIMA
	IKISHIMA		OYAMA
	BUSAN		KAGIS 3549.0N 14234.0E
	SEOUL		PABBA 3700.0N 14400.0E
(APAC13/09 – ATS)			PASRO 1417.1N 16040.5E

	(AMOTT) 6054.0N 15121.6W (APAC 14/01 – ATS)				GENGMA KUNMING LUXI BOSE LAIBIN GAOYAO PINGZHOU ZHULIAO
A591	QINDAO XUEJIADAO LATUX 3532.0N 12044.0E MUDAL 3651.0N 12322.0E AGAVO 3710.0N 12400.0E				WONGYUAN NANXIONG GANZHOU NANFENG SHANGRAO TONGLU NANXUN SHANGHAI
A592	PUPIS 1000.0S 17105.5W APIA VAVA'U TONGA				
A593	TANGHEKOU XILIUHETUN SHIGEZHUANG POTOU PIXIAN WUXI SHANGHAI NANHUI FUKUE	A791		(IMLOT) JIWANI KARACHI PRATAGARH BHOPAL JAMSHEDPUR KOLKATA	
A595	FUKUOKA IKISHIMA CHEJU	B200	ENKIP 3547.0S 17730.0E FICKY 3133.6N 12123.5W		
A596	HUAIROU HUAILAI TIANZHEN LIANGCHENG BAOTOU DENGKOU YABRAI	B202	UBON PAKSE PLEIKU		
		B203	KATHMANDU BAGDOGRA GUWAHATI SILCHAR IMPHAL LASHIO		
A597	GOBOH KUSHIMOTO MONPI 2100.0N 14036.0E GUAM HONIARA NOUMEA AUCKLAND (APAC13/9 – ATS)	B204	GOMES 1324.0N 10135.3E SIEM REAP		
		B205	RAYONG BOKAK 1257.5N 10230.0E SIEM REAP		
A598	BRISBANE HONIARA NAURU MAJURO	B206	URUMQI FUKANG ALTAY GOPTO 4905.5N 08728.0E (AKTASH)		
A599	CHITTAGONG LINSO 2322.5N 09855.0E	B209	JAMSHEDPUR		

	KHAJURAHO TIGER 2828.8N 07214.9E		WAKKANAI
B210	TASOP 2513.3N 07048.9E NAWABSHAH	B326	HONIARA CHOKO 2022.6N 16053.0W
B211	MUMBAI EPKOS 1653.1N 07407.2E CHENNAI	B328	EREN TAMURTAI TIANZHEN NANCHENGZI WEIXIAN
B213	LHASA CHENGDU		
B214	NASAN LADON 2106.2N 10258.0E AKSAG 2049.1N 10027.3E	B329	PHNOM PENH PAKSE LEBAL 1630.2N 10556.7E VILAO 1722.0N 10605.0E NAM HA 2023.2N 10607.1E
B215	DAWANGZHUANG TAIYUAN YINCHUAN YABRAI JIUQUAN HAMI FUKANG URUMQI KUQA SHACHE HONGQILAPU PURPA 3656.5N 07524.5E GILGIT ISLAMABAD		APAC 13/18 – ATS
		B330	HONG KONG TAMOT PINGZHOU GAOYAO DOUJIANG QUIANXI FUJIACHANG JINGTAI YABRAI MORIT 4202.0N 10249.0E NIDOR 5029.4N 09125.8E (LIKAR)
B218	KUNMING SIMAO 2243.1N 16058.2E SAGAG 2111.5N 10137.4E VIENTIANE LOEI CHUM PHAE	B331	CHEUNG CHAU KAPLI 2110.0N 11730.0E HENGCHUN
B219	PENANG KOTA BHARU	B332	SANKO 3814.2N 12228.4E TOMUK 3843.0N 12400.0E PYONGYANG SINSONGCHON SONDO 3947.0N 12713.6E KANSU 3838.0N 13228.5E
B220	BRISBANE PORT MORESBY	B333	AUCKLAND PORT MORESBY
B221	NINAS 3100.0N 12215.0E PINOT 3125.2N 12214.2E SAGUT 3500.0N 12040.3E XUEJIADAO	B334	BEIJIN TANGHEKOU FENGNING TONGLIAO
B222	VINIK 0838.6N 11613.8E KOTA KINABALU	B337	(TAKHTOYAMSK) ANIMO 4508.3N 14337.8E ASAHIKAWA
B223	(DABUR 5147.1N 14235.9E) LUMIN 4545.0N 14150.3E		

B338	MERSING TEKONG ANITO 0017.0S 10452.0E		DAASH 4226.5N 12600.1W
B339	ULAN BATOR POLHO 4447.0N 11315.0E FENGNING	B454	PAGO PAGO RAROTONGA TONYS 3019.9N 12249.2W
B345	KATHMANDU BHARATPUR BHAI RAHAWA LUCKNOW	B455	VAVA'U NISEX 1547.3S 17136.4W
B346	LUANG PRABANG NOBER 1516.6N 10040.1E BANGKOK	B456	WEWAK JAYAPURA
B348	HENGCHUN POTIB 2100.0N 12045.5E LAOAG SAN FERNANDO MANILA TOKON 1142.0N 11940.3E PUERTO PRINCESA OSANU 0741.4N 11717.6E KOTA KINABALU BRUNEI KAMIN 0235.1N 10855.7E SABIP 0209.7N 10750.5E TOMAN 0121.5N 10547.0E	B459	MUMBAI CLAVA 0134.0N 06000.0E (PRASLIN)
APAC 13/22 - ATS		B460	KHORAT SAVANNAKET
B349	BALI POTIP 2141.6S 12508.0E	B462	MACKAY HAMILTON IS. PORT MORESBY KADAB 0458.0S 14100.0E BIDOR 0400.0S 13130.0E TACLOBAN MANILA CABANATUAN LAOAG MIYAKO JIMA OKINAWA
B450	SYDNEY LORD HOWE IS NORFORK IS PAGO PAGO	B463	BAGO MANDALAY LASHIO
B451	HAILAR QIQIHAR HARBIN BISUN 4314.0N 13111.8E (VLADIVOSTOK) IGROD 4139.0N 13647.0E KADBO 3914.0N 13745.0E	B465	KOLKATA CHITTAGONG MANDALAY LUANG PRABANG HANOI
B452	TONIK 3200.0N 14600.0E HONIARA NADI	B466	JOHOR BAHRU BATU ARANG CHENNAI MUMBAI
B453	MIDDLETON IS KATCH 5400.0N 13600.0W	B467	KANGWON INTOS 3722.0N 13120.0E KANSU 3838.0N 13228.5E NULAR 4059.2N 13411.0E (TEKUK) 4241.0N 13527.4E
		B468	DIENBIEN LADON 2106.2N 10258.0E LUANG PRABANG

B469	SINGAPORE JAKARTA CARNARVON GERALDTON PERTH CAIGUNA WHYALLA GRIFFITH SYDNEY		NOUMEA TAHITI
		B579	PHUKET LANGKAWI PENANG
		B580	SYDNEY NOUMEA CHOKO 2022.6N 16053.0W
B470	SINGAPORE PANGKALPINANG JAKARTA	B581	NADI FICKY 3133.5N 12123.5W
B472	LIPA ILO ILO COTABATO SELSO 0400.0N 12616.0E TOREX 0724.0N 13335.0E GOVE NORMANTON	B583	BRUNEI DARWIN
		B584	DENPASAR ELANG 0056.0S 11449.5E KOTA KINABALU
		B586	NOUMEA SEKMO KAPKI PORT MORESBY GUAM OMLET 2100.0N 14259.2E TATEYAMA
B473	LIPA ROXAS CAGAYAN-DE-ORO DAVAO SADAN 0400.0N 12805.0E CAIRNS		
		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
B474	SYDNEY SANTO NANUMEA CHOKO 2022.6N 16053.0W		
B480	(RAZDOLITE) LETBI 5011.9N 10330.6E BULGAN MORIT 4202.0N 10249.0E		
		B589	PORT MORESBY KAPKI 1014.9S 14817.7E BUKA MAJURO
B575	AUCKLAND TONGA PAGO PAGO		
B576	TAIBEI CHEJU SEOUL	B590	NOUMEA PORT VILA NAURU
B577	NADI WALLIS IS APIA PAGO PAGO FICKY 3133.5N 12123.5W	B591	SHANGHAI TAIBEI HENCHUN (Partially implemented)
B578	BRISBANE	B592	KOTA KINABALU JAKARTA

B593	KOLKATA COMILLA AGARTALA GUWAHATI	G205	HAMILTON IS. GURNEY JUNIE
B595	TAHITI KONA	G206	DILARAM KABUL SABAR PURPA
B596	RAROTONGA DOVRR 1843.0N 15740.0W	G208	MUMBAI PARTY 2414.6N 07052.0E
B597	ERABU TANEGASHIMA SHIMIZU		KARACHI PANJGUR (ZAHEDAN)
B598	DARWIN THURSDAY ISLAND PORT MORESBY KAPKI 1014.9S 14817.7E HONIARA PORT VILA NADI NAUSORI TONGA RAROTONGA	G209	LAERMONTH CHRISTMAS ISLAND PALEMBANG
B599	NOUMEA NADI TAHITI	G210	PANJGUR KARACHI MUMBAI
B757	KATCH 5400.0N 13600.0W CAPE NEWENHAM NULUK 5822.9N 17706.1W	G212	(KHABAROVSK) ARGUK 4753.5N 13439.4E HAIQING JIAMUSI HARBIN TONGLIAO GUBEIKOU QINBAIKOU NANCHENGZI TAIYUAN YIJUN SANYUAN XIAOYANZHUANG NINGSHAN WUFENGXI FUJIACHANG WEINING MAGUOHE KUNMING
B932	BAMOK 5625.5N 17249.3E (NETRI 4739.3N 15000.0E) ODERI 4439.0N 14515.2E MEMANBETSU		
G200	CHRISTMAS IS. COCOS IS (PLAISANCE)		
G202	(KANDAHAR) ZHOB RAHIM YAR KHAN	G213	BIAK BEKUB 0350.0N 13845.0E GUAM
G203	MIHO PUSAN	G214	JIWANI PANJGUR RAHIM YAR KHAN MOLTA 3012.0N 07236.2E
G204	ELNEX SHENGXIAN METAN SHANGHAI	G215	DUTCH HARBOR

	OLCOT 5125.8N 16533.3E	G329	BRISBANE NORFORK IS
G216	(DORAB) ALPOR 2404.7N 06120.0E LATEM 2431.7N 06449.7E KARACHI	G330	SHANGHAI POMOK NANTONG GURNI 3209.2N 12058.5E PIMOL 3215.0N 11944.0E
G218	HOHHOT TUMURTAI POLHO 4447.0N 11315.0E SOLOK 4954.0N 11545.0E	G331	PHUKET PADET DAWEI
G219	VIRUT 0230.8N 10402.7E TEKONG	G332	TANGHEKOU CHAOYANG
G221	PHUCAT BUNTA 1650.0N 10923.7E BAOLONG HAIKOU SAMAS SIKOU	G333	DELHI ESEM TIGER 2828.8N 07214.9E
G222	SAPDA BROOME AYERS ROCK PARKES	G334	KUALA LUMPUR TIOMAM BUNTO 0242.0N 10600.0E DOTAS 0201.1N 10820.5E SIBU
G223	TATEYAMA TONIK 3200.0N 14600.0E NAURU NADI NAUSORI NIUE AITUTAKI TAHITI (LIMA)	G335	KATHMANDU JANAKPUR PATNA
G224	NORFORK IS NADI PAGO PAGO TAHITI ISLA DE PASCUA (SANTIAGO)	G336	DHANBAD PATNA SIMRA KATHMANDU
G325	COLOMBO TIRUCHCHIRAPPALLI	G337	PERTH CHRISTMAS IS PEKANBARU
G326	BALI TENNANT CREEK BRISBANE	G338	CHOIBALSAN KAGAK
G327	NANHUI NINAS 3100.0N 12215.0E AKARA 3130.0N 12330.0E	G339	PUSAN FUKUOKA KAGOSHIMA TANEGASHIMA PAKDO GUAM
		G340	QINGBAIKOU HUAILAI
		G341	CHANGCHUN WANGQING
		G342	CAIRNS

	HONIARA		FAROA	2500.0S	17502.3W
G344	COMFE	3624.0N 14618.0E	DIVSO	3452.3S	17624.5E
	CUTEE	4624.9N 16218.6E	G458	BANGKOK	
	CUDDA	5647.9N 16018.1W		SURAT THANI	
G345	UNTAN			PHUKET	
	CHANGZHOU		G459	CAIRNS	
	LISHUI			TIMIKA	
G346	KIMCHAEK		G460	KUCHING	
	NULAR	4059.2N 13411.0E		SIBU	
	IGROD	4139.0N 13647.0E		BINTULU	
G347	AUCKLAND			BRUNEI	
	POPIR	2500.0S 17804.8W	G463	RAJSHAHI	
	PADDI	1825.7N 15854.8W		DHAKA	
G348	PARO			CHITTAGONG	
	BAGDOGRA			BAGO	
	MECHI			BETNO	1505.8N 09812.7E
	KATHMANDU			BANGKOK	
G424	(DAR ES SALAAM)		G464	PONTIANAK	
	VUTAS	0912.0N 06000.0E		ROZAX	0245.0S 11140.0E
	ALATO	1340.7N 06344.0E		BALI	
G450	(MOGADISHU)			KARRATHA	
	MUMBAI			BALLIDU	
	NAGPUR		G465	PERTH	
	KOLKATA			(PRASLIN)	
G451	AHMEDBAD			MALE	
	SASRO	2404.3N 07100.0E		COLOMBO	
	PARTY	2414.6N 07052.0E	G466	HO CHI MINH	
G452	(ZAHEDAN)			PHUCAT	
	RAHIM YAR KHAN			HENGCHUN	
	TIGER	2828.8N 07214.9E	G467	LUBANG	
	DELHI			JOMALIG	
G453	KUALA LUMPUR			GUAM	
	KOTA BHARU		G468	PENANG	
G454	(PLAISANCE)			MEDAN	
	BOBOD	0600.0S 06941.1E	G469	PORT HEIDEN	
	PADLA	0446.1N 07800.0E		ST PAUL IS	
	COLOMBO			NYMPH	5324.5N 16814.4E
G455	SHANGHAI		G470	XIANYANG	
	PINOT	3125.2N 12214.2E		FENGHUO	
	AKARA	3130.0N 12330.0E		CHANGWU	
G457	DOVRR	1843.0N 15740.0W		JINGNING	
	ELLS	0500.0S 16704.1W		JINGTAI	
	PAGO PAGO			QITAI	

G471	SHILONG LONGMEN GANGZHOU		MIYAKO JIMA BISIS 2647.0N 12633.0E ERABU TAPOP 3240.0N 13607.9E
G472	KARACHI AHMEDABAD NAGPUR BHUBANESHWAR PATHEIN BAGO		MIYAKE JIMA (APAC 14/01 – ATS)
		G582	PUGER 0324.1N 10017.6E BATU ARANG PEKAN
G473	BAGO MAKAS 1649.7N 09830.0E PHITSANULOKE UBON	G583	EMMONAK BESAT 5945.0N 17925.1W (UST-BOLSHERETSK) BISIV 4456.3N 14412.3E MONBETSU
G474	BANGKOK MENAM 1357.3N 10247.7E SOURN 1345.5N 10600.0E ANINA 1359.0N 10725.0E PHUCAT	G584	KUALA LUMPUR PEKAN KUCHING
G575	TAHITI RANGIROA FICKY 3133.5N 12123.5W	G585	MIHO POHANG SEOUL
G576	CHEER 5310.0N 14000.1W SPONJ 4992.0N 13005.1W	G586	YINGDE ERTANG
G578	GURAG 2100.0N 12725.0E DILIS 1431.0N 12600.0E TACLOBAN MACTAN ZAMBOANGA DENPASAR PORT HEDLAND PARABURDOOD PERTH	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
G579	JAKARTA PALEMBANG SINGAPORE JOHOR BAHRU	G590	SIMRA VARANASI KHAJURAHO BHOPAL INDORE BODAR 2236.3N 07413.3E
G580	TOMAN 0121.5N 10547.0E NIMIX 0124.9N 10759.2E ATETI 0125.7N 10830.1E KUCHING MIRI BRUNEI	G591	CAIRNS NOUMEA NORFORK IS AUCKLAND
G581	HONG KONG ELATO 2220.0N 11730.0E HENGCHUN	G593	FUNAFUTI NAUSORI NIUE RAROTONGA

G594	TIAMU TAHITI RAROTONGA AUCKLAND SOLIT 2355.0S 07500.0E (PLAISANCE)		CHRISTMAS IS JAKARTA
		R207	VIENTIANE NAN CHIANG MAI MANDALAY
G595	(TAHITI) SYDNEY MABAD 2648.4S 07500.0E (PLAISANCE)		R208 KUALA LUMPUR KUALA TRENGGANU KANTO 0649.9N 10348.3E
G597	DONVO 3734.0N 12320.0E AGAVO 3710.0N 12400.0E SEOUL KANGNUNG MIHO OTSU KOWA OSHIMA VENUS 3618.2N 14042.1E		R209 TATOX 0857.0N 09702.0E LANGKAWI
		R210	PORT MORESBY CAIRNS
		R211	KASMI 3601.3N 14040.3E DAIGO NIIGATA KADBO 3914.0N 13745.4E AVGOK 4336.0N 13815.0E VELTA 4529.0N 13710.0E
G598	LUCKNOW APIPU 2658.6N 08300.0E SIMARU		R212 (DIEGO GARCIA) GUDUG 0704.6S 07500.0E PIBED 0520.2S 09044.0E
G599	AUCKLAND TAHITI		R215 CHIANG RAI NAN LUANG PRABANG
R200	PINGZHOU LIANSHENGWEI BIGRO ZHANJIANG		R217 NODAN 4025.0N 14500.0E SENDAI NIIGATA
R201	BANGKOK UTAPAO		R218 DELHI DIPAS 2738.3N 07551.9E JAIPUR
R202	PHRAE TATEL 1729.1N 098 45.8E (APAC13/07 – ATS)		R220 DAIGO IWAKI NANAC 3854.2N 14313.9E NIPPI 4942.6N 15920.8E NODLE 6117.0N 15200.0W
R203	SAPAM 0804.6N 09733.0E PHUKET		R221 MERSING PULAU TIOMAN
R204	KEITH 2100.0N 13456.5E KALIN 0000.0N 14200.0E LIDIT 0918.0S 14220.0E HORN IS CAIRNS		R222 AVGOK 4336.0N 13815.0E (YEDINKA)
R205	ANARAK BIRJAND		R223 BRUNEI ELANG 0056.0S 11449.5E
R206	PORT HEDLAND		

R224	YANJI VASRO 4227.8N 12944.4E KANSU (APAC 13/10 – ATS)	(APAC 13/18 – ATS)	R336	ADAK CARTO 4840.5N 16847.0E
R325	KATHMANDU JANAKPUR DUMKA 2411.0N 08721.3E KOLKATA PHUKET HAT YAI IPOH JOHOR BAHRU		R337	TACLOBAN KOROR
R326	NORFOLK IS CHRISTCHURCH		R338	NOME NINNA 5455.7N 17158.8E
R327	GISBORNE FAROA		R339	SIKOU 2050.6N 11130.0E HUGUANG NANNING BOSE
R328	DANANG HUE LEBAL 1630.2N 10556.7E SAVANNAKHET (APAC 13/18 – ATS)		R340	AMBON WALGETT
R329	KAGLU 1231.2N 07200.0E MALE GAN (DIEGO GARCIA)		R341	KODIAK NINNA 5455.7N 17158.8E
R330	SHEMYA POWAL 5024.3N 16530.8E		R342	MANADO BONDA 0200.0N 12451.2E PEDNO 0400.0N 12521.0E GENERAL SANTOS DAVAO
R332	MAJURO BONRIKI AKUMO 0614.9S 17535.5E ROTUMA NADI		R343	NANXIANG WUXI LISHUI HEFEI WUHAN LONGKOU LAOLIANGCANG DARONGJIANG LAIBIN NANNING
R334	RAYONG KOH KONG SIHANOUK PADMA 1025.8N 10402.3E PHU QUOC (APAC 13/18 – ATS)		R344	KATHMANDU BIRATNAGAR KATI HAR RAJSHAHI
R335	VINH ALPHA 1832.6N 10319.7E VIENTIANE		R345	ROIET BIDEM 142153.57N 1034750.07E SIEM REAP
			R346	TOWNSVILLE PORT MORESBY
			R347	NIIGATA SADO

	EKVIK 3944.7N 13636.5E IGROD 4139.0N 13647.0E (VELTA) 4529.0N 13710.0E	R462	(SEEB) DENDA 2442.5N 06054.8E JIWANI KARACHI UPAIPUR DELHI
R348	KADAP 0200.0S 08409.6E LATEP 0610.3S 07500.0E (DIEGO GARCIA)		
R349	LEMOK 1000.0N 10302.2E RASER 1000.0N 10506.0E HO CHI MINH	R463	APACK 2402.6N 15619.2W ALCOA 3750.0N 12550.0W
R450	KIETA HONIARA	R464	BITTA 2332.0N 15529.0W BEBOP 3700.0N 12500.0W
R451	ADAK OGDEN 4929.2N 16102.3E	R465	CLUTS 2300.0N 15439.0W CLUKK 3605.0N 12450.0W
R452	SONDO 3947.0N 12713.6E HAMUN 3955.1N 12731.1E KIMCHAEK UAMRI 4217.6N 13041.8E (TEKUK) 4241.0N 13527.4E	R467	KUALA LUMPUR GUNIP 0429.9N 09931.9E
R453	NADI APIA	R468	BANGKOK BOKAK 1257.5N 10230.0E PHNOM PENH SAPEN 1102.2N 10611.0E HO CHI MINH
R455	PONTIANAK KUCHING	R469	PEKANBARU SINGAPORE
R458	MUMBAI EPKOS 1653.0N 07407.2E BELGAUM	R470	VIENTIANE UDON THANI KHON KAEN
R457	CHENNAI TIRUCHCHIRAPPALLI MADUDAI TRIVANDRUM MALE	R472	KOLKATA RAJSHAHI GUWAHATI
R460	DELHI ALIGARH LUCKNOW VARANASI GAYA KOLKATA	R473	LILING NANXIONG WONGYUANG ZHULIAO PINGZHOU TAMOT 2221.5N 11352.0E
R461	MUMBAI MABTA 1708.5N 07321.8E BELGAUM COIMBATORE COLOMBO MEDAN KUALA LUMPUR	R474	GAOYAO NANNING LONGZHOU HANOI VIENTIANE BANGKOK
		R575	PAPRA 1546.0N 10711.0E KOH KONG UPNEP 0942.2N 10029.6E SURAT THANI

R576	DENNS DINTY	2222.0N 15353.0W 3329.0N 12235.0W			COTABATO
R577	EBBER ELKEY	2143.0N 15309.0W 3241.0N 12203.0W		R591	CAPE NEWENHAM AKISU 4734.3N 16119.3E ABETS 3605.0N 14425.0E
R578	FITES FICKY	2049.0N 15300.0W 3133.5N 12123.5W		R592	BALI ONSLow PERTH
(R579 in Chapter 2)					
R580	OATIS OMOTO AMOTT	3800.0N 14345.0E 4859.7N 16000.7E 6053.9N 15121.8W		R594	LUCKNOW JALALABAD DELHI
R581	KOLKATA MONDA SIMARA	2521.0N 08626.4E		R595	ANPU MIYAKO JIMA KEITH 2100.0N 13456.5E GUAM
R582	NORFOLK IS RAROTONGA			R597	CABANATUAN SARSI 1642.0N 12316.9E SKATE 1716.7N 12423.0E
R583	TAIBEI BISIS OKINAWA MINAMIDAITO SABGU BUNGO	2647.1N 12633.1E		R598	KOLKATA RAJSHAHI SAIDPUR COOCH BEHAR BOGOP PARO
R584	OKINAWA AVLAS SALVA KEITH GUAM TRUK POHNPEI KWAJALEIN MAJUORO JOHNSTON IS CHOKO (APAC 13/09 – ATS)	2222.7N 13059.7E 2100.0N 13456.48E 2022.9N 16053.2E		R599	KIETA GIZO HONIARA PORT VILA WHANGAREI AUCKLAND
R585	CITTA GATES	2818.9N 14507.2W 3412.7N 12303.9W		RNAV ROUTES	
R587	BRISBANE PORT VILA			L301	BANGKOK DAWEI VISHAKHAPATNAM BUSBO 1914.9N 07807.6E NOBAT 2109.0N 06800.0E RASKI 2303.5N 06352.0E (VAXIM 2319.0N 06111.0E)
R588	PHUKET RELIP PHNOM PENH PLEIKU			L333	KHAJURAHO JAIPUR TIGER 2828.8N 07214.9E
R590	AMBON			L500	(SANTIAGO)

	AUCKLAND		
L501	(RIO GALLEGOS) AUCKLAND	L518	HIA 171340.1N0782420.9E BBZ 163118.3N0804733.7E GOPNU 155112N0820224E EGOLU 141858N0844952E SADAP 120605.6N0884120.8E
L502	ISLA DE PASCUA (LOS ANGELES)		
	APAC 13/15 – ATM and SAM-B13/1 deleted as a result of Easter Island being transferred to SAM región	L521	SYDNEY AUCKLAND
L503	BRISBANE IGEVO 3636.5S 16300.0E CHRISTCHURCH	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 AKOTA 1706.6N 11651.6E AVMUP 1843.3N 11808.3E POTIB 2100.0N 12045.5E
L504	SINGAPORE MANADO		
L505	BUSBO 1914.9N 07807.6E KAMOL 1938.1N 07340.0E NOBAT 2109.0N 06800.0E		
L507	KOLKATA BAGO BANGKOK	L628	LUBANG IBOBI 1354.4N 11832.6E GUKUM 1356.8N 11637.2E ARESI 1358.4N 11427.0E MESOX 1358.4N 11427.0E DAMEL 1358.7N 11130.6E VEPAM 1358.0N 11000.0E PHUCAT
L508	RAROTONGA CHRISTCHURCH MELBOURNE		
L509	GAYA ASARI 3048.3N 07509.5E	L629	PEKAN DOLOX 0448.7N 10522.9E
L510	IBANI 250000N 0764311E ELBAB 201333N 0815954E LEKIR 071632N 0965243E GIVAL 070000N 0980000E	L635	PEKAN MABLI 0417.3N 10612.9E
L512	INTOS 3722.0N 13120.0E NIIGATA	L637	BITOD 0715.3N 10612.9E TANSONNHET
L513	PERTH HOBART AUCKLAND	L642	CHEUNG CHAU EPDOS 1900.0N 11333.3E ENBOK 1833.4N 11329.5E EGEMU 1700.0N 11217.0E VEPAM 1358.0N 11000.0E PHANTHET CONSON IS ESPOB 0700.0N 10533.4E ENREP 0452.4N 10414.8E MERSING
L515	OBMOG 1154.1N 09623.5E IKULA 1000.0N 09721.2E PHUKET	L643	TANSONNHET CONSON
L516	KITAL 2003.0N 06018.0E ELKEL 0149.0N 06911.0E (DIEGO GARCIA)		
L517	MIRI GULIB 0409.3N 11028.1E TERIX 0415.4N 10934.9E		

L644	CONSON JAKARTA	CHENNAI (MMV) (APAC13/08-ATS)
L645	COLOMBO SULTO 0738.6N 08801.9E SAMAK 0758.7N 09425.0E SAPAM 0804.6N 09733.0E PHUKET	L888 BIDRU 2243.1N 10057.9E NIVUX 2600.0N 10000.0E SANLI 3200.0N 10000.0E TEMOL 3527.1N 09412.2E TONAX 3745.5N 09011.3E KUCA VOR (KCA)
L626	KATHUMANDU ONISA 2858.1N 08005.5E DELHI	L888 BIDRU 22 43.1N 100 57.9E MAKUL 24 03.1N 100 34.6E NIVUX 26 00.0N 100 00.0E PEXUN 30 55.9N 100 00.0E SANLI 32 00.0N 100 00.0E NOLEP 38 34.5N 088 42.5E SADAN 40 04.6N 086 00.0E KUQA VOR (KCA)
L649	BRUNEI ISKUD 0536.6N 11452.3E URKET 0811.5N 11450.0E LAXOR 0949.6N 11458.5E (APAC 14/10 – ATS)	(APAC 13/13 – ATS)
L756	CLAVA MALE	
L759	DELHI POSIG 2713.0N 07734.9E AGRA KHAJURAHU PHUKET	L894 KITAL 2003.0N 06018.0E MALE SUNAN 0028.7S 07800.0E DADAR 0200.0S 07927.1E PERTH
L760	AGRA GURTI 2743.8N 07747.8E DELHI	L896 SAPDA 1200.0S 11125.6E NISOK 0302.9N 09200.0E DUGOS 0853.1N 08447.9E CHENNAI
L774	(PLAISANCE) LELED 116.5S 07500.0E ELATI 0200.0S 08957.7E KETIV 0042.0S 09200.0E MEDAN	L897 CHRISTMAS ISLAND KETIV 0042.0S 09200.0E COLOMBO
L875	VUTAS 091206N 0600004E MOXET 110146N 0645024E GOLEM 115739N 0672213E EGOGI 121100N 0690000E GOKUM 122025N 0701005E OLNIK 122850N 0711440E BEDIL 123500N 0715958E DOLPI 124641N 0732711E MANGALORE(MML) PEXEG 130415N 0760230E BANGALORE (BIA)	L899 HANIMAADHOO TRIVANDRUM M300 (EMURU 2215.6N 05849.8E) LOTAV 2037.0N 06057.0E CALICUT MADURAI SALAX 0212.4N 10133.7E M501 GUAM LIMLE 1639.7N 13000.0E SKATE 1722.2N 12425.6E LAOAG NOMAN 2000.0N 11640.3E M502 BANGKOK

	AKATO 1337.3N 09910.3E		COLOMBO
	LALIT 1252.4N 09225.1E		COCOS IS
M504	ALPOR 2404.7N 06120.0E		PERTH
	NODER 2350.0N 06700.0E	M643	HOBART
	TELEM 2402.0N 06846.0E		CHRISTCHURCH
		M644	RAYONG
			KOTA BHARU
M505	BUON MA THUOT		
	MONDULKIRI	M646	HENGCHUN
	SIEM RIEP		AGVAR 1924.8N 12037.7E
M510	CAN THO		LAOAG
	PHNOM PENH		SAN FERNANDO
M512	COLOMBO		MANILA
	ANIVE 0540.9N 07800.0E		TOKON 1142.0N 11940.5E
	MALE		PUERTO PRINCESAKOTA
M520	SERNA 5018.5N 10628.1E		KINABALU
	POLHO 4447.0N 11315.0E		BRUNEI
M522	VINIK 0838.5N 11613.8E		DARMU 0401.7N 11240.6E
	KOTA KINABALU		KAMIN 0234.7N 10855.9E
	MAMOK 0405.1N 11547.2E		SABIP 0209.7N 10750.7E
	DENPASAR		ESPIT 0200.2N 10726.4E
M625	MELBOURNE		OBLLOT 0142.9N 10641.8E
	WELLINGTON		TOMAN 0121.8N 10547.3E
M626	KOTA BHARU		(APAC 13/22- ATS)
	DAWEI	M750	KILOG 2152.5N 11441.6E
	BAGO		ENVAR 2159.5N 11730.0E
M635	SINGAPORE		MOLKA 2639.5N 12400.0E
	RAMPY 0615.0 11320.8E		MOMPA 3050.5N 12955.1E
	CURTIN		MANEP 3242.9N 13340.0E
M638	DOSTI 2558.0N 06503.0E		SOPHY 3327.2N 13721.9E
	KARACHI		MIYAKE JIMA
	MINAR 2350.0N 06800.0E		BUNGU 3407.1N 13929.9E
	SAPNA 2330.0N 06750.0E		(APAC 14/01 – ATS)
	NOBAT 2109.0N 06800.0E	M751	MERSING
	MUMBAI		PEKAN
M639	IGEVO 3636.5S 16300.0E		KOTA BHARU
	WELLINGTON		REGOS 1200.0N 10035.1E
M641	MADURAI		BANGKOK
	BIKOK 0817.0N 07836.0E	M753	ENREP 0452.4N 10414.8E
			BITOD 0715.3N 10407.3E
			PHU QUOC
			CAMPU 1030.0N 10402.3E
			PHNOM PENH

APAC13/18 - ATS

		DOGOG	0525.3N 11407.5E
		ASISU	0559.1N 11320.8E
		TODAM	0631.6N 11235.6E
M754	BRUNEI	LAGOT	0716.5N 11132.7E
	VINIK	AKMON	0812.9N 11013.1E
	TENON	MOXON	0849.5N 10921.3E
	LULBU	DAGAG	0927.8N 10826.5E
	NOBEN	TANSONNHAT	
	GUKUM		
	AKOTA		
		M770	KOTA BHARU
M755	PHNOM PENH		RANONG
	KISAN		BUBKO 1911.1N 08839.8E
	BITOD		KAKID 2038.6N 08659.9E
			JAMSHEDPUR
M758	PEKAN	M771	MERSING
	LUSMO		DOLOX 0448.7N 10522.9E
	TERIX		DUDIS 0700.0N 10648.6E
	OLKIT		DAGAG 0927.8N 10826.5E
	KOTA KINABALU		DOXAR 1222.0N 11022.7E
M759	OLKIT		DAMEL 1358.7N 11130.6E
	BRUNEI		DONDA 1442.2N 11201.3E
M761	PEKAN		DOSUT 1702.0N 11340.8E
	BOBOB		DULOP 1814.2N 11432.6E
	SABIP		DUMOL 1900.0N 11426.8E
	AGOBA		HONG KONG
	KUCHING	M773	BUBKO 1911.1N 08839.8E
M766	COLOMBO		LEGOS 2138.0N 08805.3E
	JAKARTA		KOLKATA
	INDRAMAYU	M774	SINGAPORE
	MADIN		KIKEM 0952.9S 12607.4E
	CUCUT	M875	KAKID 2038.6N 08659.9E
	SURABAYA		BUTOP 2919.7N 07523.9E
	BALI		GUGAL 3014.5N 07358.0E
	DARWIN		DERA ISMAIL KHAN
M765	KOTA BHARU	M890	LUCKNOW
	IGARI		CHANDIGARH
	BITOD		SAMAR 3120.8N 07434.0 ^E
	CONSON	M904	BANGKOK
	DAGAG		U-TAPHAO
	MAPNO		DIPUN
M767	JOMALIG		SIRAT
	TOKON		TONIK
	TENON		TIDAR
	TEGID		ODONO
	TODAM		UPRON
M768	DARWIN		ENREP
	BRUNEI		

					SYDNEY
N502	PARDI	0034.0S	10413.0E	N875	DENPASAR
	BOBAG	0102.5N	10329.9E		PONTIANAK
N509	ELATI	0200.0S	08957.7E		ARUPA 0031.7N 10848.8E
	PORT HEDLAND				NIMIX 0124.9N 10759.4E
N519	MUMBAI				BOBOB 0222.1N 10706.0E
	SAPNA	2330.0N	06750.0E		ENREP 0452.4N 10414.7E
	MINAR	2350.0N	06800.0E	N877	LAGOG 0835.6N 09159.8E
	KARACHI				VISHAKHAPATNAM
N563	(EMURU	2214.0N	05853.6E)		NAGPUR
	REXOD	2112.5N	06138.5E		PRATAGRAPH
	BANGALORE			N884	MERSING
	MEDAN				LUSMO 0333.7N 10655.7E
	SALAX	0212.4N	10133.7E		LAGOT 0716.6N 11131.5E
N564	DUGOS	0853.1N	08447.9E		LAXOR 0949.6N 11448.5E
	AKMIL	1151.6N	08006.9E		LULBU
N571	(RAGMA	2306.0N	06105.7E)		110936.07N 1163217.70E
	PARAR	2226.5N	06307.0E		LEGED
	VAMPI	0610.9N	09735.1E		130113.24N 1190006.94E
	GUNIP	0429.9N	09931.8E		LUBANG
N628	PEKANBARU				CABANATUAN
	BUSUX	0355.0S	06000.0E	N891	MIYAKOJIMA
	(PRASLIN)				PAPA UNIFORM
N633	KUALA LUMPUR				ENREP 0452.4N 10414.8E
	PEKANBARU				IGARI 0656.2N 10335.2E
	POSOD	0329.5S	09409.9E		SAMOG 0800.0N 13014.6E
	PEDPI	1316.6S	07500.0E		RAYONG
	(PLAISANCE)				BANGKOK
N640	TRIVANDRUM			N892	HENGCHUN
	BIKOK	0817.0N	07836.0E		KABAM 2100.0N 11925.7E
	COLOMBO				MUMOT 1930.4N 11714.5E
	LEARMONTH				MAVRA 1814.4N 11615.1E
	MOUNT HOPE				MIGUG 1516.4N 11400.0E
	ADELAIDE				MESOX 1358.8N 11302.7E
N645	BRUNEI				MUGAN 1222.0N 11152.3E
	ELANG				MAPNO 1013.1N 11020.1E
	005535.64S	1145003.10E			MOXON 0849.5N 10921.3E
	SURABAYA				MELAS 0704.9N 10808.4E
N750	SYDNEY				MABLI 0417.3N 10612.9E
	CHRISTCHURCH				MERSING
N759	MELBOURNE			N893	TELEM 2407.0N 06846.0E
	AUCKLAND				AHMEDABAD
N774	AUCKLAND			N895	BETNO 1505.8N 09812.7E
					PATHEIN
					BHUBANESWAR
					NAGPUR

	BODAR	2236.3N 07413.3E		P762	DAWEI	
	AHMEDABAD				PORT BLAIR	
	PARTY	2414.6N 07052.0E			COLOMBO	
P173	TAPIS	3431.0N 06909.0E		P880	IGEVO	03636.29S 16300.00E
	DAVET	3657.6N 06447.2E			SLOPE HILL VOR	
	(APAC 14/11 – ATS)					04459.03S 16846.57E
P501	ARAMA	0136.9N 10307.2E		P901	IKELA	1839.7N 11214.7E
	BOBAG	0102.5N 10329.9E			CHEUNG CHAU	
	ANITO	0017.0S 10452.0E				
P518	NOBAT	2109.0N 06800.0E		UPPER ATS ROUTES		
	PARET	2527.2N 06451.5E		UB467	YEDINKA	
	PANJGUR				VELTA	4529N 13710E
P570	(MIBSI	2341.7N 05755.4E)			TEKUK	4241N 13527.4E
	KITAL	2003.0N 06018.0E			NULAR	4059.2N 13411E
	TRIVANDRUM				(KANSU)	3838.0N 13228.5E
	KATUNAYAKE			UL425	(KUTVI)	
	PEKANBARU				ASPUX	1744.00N 06000.00E
P574	(KUSRA)				DONSA	1434.14N 06511.32E
	TOTOX	2150.5N 06222.5E			VANVO	1043.00N 07200.00E
	BISET	1823.4N 06918.1E		UM551	DONSA	1435.3N 06511.6E
	BELGAUM				ANGAL	1614.1N 06000.1E
	CHENNAI				(AVAVO)	1646.3N 05526.1E
	PUGER	0324.0N 10017.5E				
P627	PHUKET					
	KADAP	0200.0S 08409.6E				
	KALBI					
	(PLAISANCE)					
P628	LANGKAWI					
	PORT BLAIR					
	RAHIM YAR KHAN					
P646	BANGKOK					
	JAMSHEDPUR					
	PATHEIN					
	VARANASI					
P648	KOTA KINABALU					
	JAKARTA					
P751	(ADEN)					
	ANGAL	1614N 06000E				
	MUMBAI					
P756	MALE					
	MEDAN					
P761	CHENNAI					
	PORT BLAIR					

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

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

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

Chapter 1: South Asia

(referred to: SAIOACG, BOBASIO, ASIOACG as appropriate for review)

ATS ROUTES	SIGNIFICANT PTS	COORDINATES	FIR	REMARKS
P173	TAPIS – DAVET westbound only		Turkmenistan Afghanistan	RDGE14.02 6 Implementati on date 01 SEP 2014

ATS ROUTE NAME: RDGE 14.026

Requested by : TKM

<p>ENTRY/EXIT POINT</p> <p>ROUTE DESCRIPTION</p> <p>Implementation of uni-directional westbound ATS route: P173 TAPIS - DAVET</p> <p>FLIGHT LEVEL BAND 31000 – 43000 ft</p> <p>PRIORITY: HIGH/MED/LOW</p> <p>PLANNED IMPLEMENTATION DATE 01 September 2014</p>	<p>CHART</p>
---	---------------------

Action Required	IATA
	ICAO

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

Remarks:

Potential City Pairs:

Chapter 2: Southeast Asia

(referred to: SEACG for review)

Chapter 3: East Asia/Russian Federation

**(referred to: Russia/East Asian States, CPWG or EATMCG
as appropriate for review)**

ATS ROUTES	SIGNIFICANT PTS	COORDINATES	FIR	REMARKS
PHI 1	MIA CAB MEVIN	N1430.5 E12101.3 N1528.9 E12101.5 N2100.0 E12233.0	MANILA MANILA MANILA	
PHI 3	TKK MUMOT	N2308.1 E12012.4 N1901.7 E11747.4	TAIPEI MANILA	
PHI 4	HCN AKOTA	N2155.7 E12050.6 N1627.7 E11712.4	TAIPEI MANILA	
TPE 1	APU MIKES	N2510.6 E12131.3 N2935.2 E12544.9	TAIPEI NAHA	
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	
CHA 12	UNWW WXI	N3621.8 E11455.0	SHANGHAI	
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	
JAP 1	TIC R583 BISIS APITO		FUKUOKA INCHOEN	
CHA13	FENGNING (GM) – DAILAN (DBL)			
FE0008 ex APAC RUS5	SIBIR- new WP- new EKVIK ARLAS- new WP- new EKVIK		KHABAROVSK FUKUOKA	
FE0021 ex APAC RUS4	AVGOK- GTC		KHABAROVSK FUKUOKA	
FE0034 ex APAC RUS9	RITEK- new WP- HLD		KHABAROVSK SHENYANG	
FE0032	TOPAZ- SCH or TOPAZ- HTN		URUMQI TASHKENT	
FE0054	RIVAT- GUMSU		KHABAROVSK PYONGYANG	
FE0055	NULAR- GUMSU		KHABAROVSK PYONGYANG	
FE0022 ex APAC RUS7	DIKUT- SANAR or DIKUT- SAMON		KHABAROVSK PYONGYANG FUKUOKA	
FE0044	Withdrawal R452 KICHA-SESUR-		KHABAROVSK PYONGYANG	

	TERNI			
FE0045	Withdrawal B355 BG-DIKUT- GAMOV-SESUR		KHABAROVSK PYONGYANG	
FE0046	Withdrawal B124 DIKUT-VATIS- TERNI		KHABAROVSK PYONGYANG	
FE0047	Withdrawal G711 AGITA-RIVAT		KHABAROVSK PYONGYANG	
FE0048	Withdrawal G721 VATIS-AGITA- RORIM		KHABAROVSK PYONGYANG	
FE0049	New B356 KICHA- new WP- KN		KHABAROVSK PYONGYANG	
FE0050	New B355 BG-VATIS- TERNI-new WP KICHA		KHABAROVSK PYONGYANG	
FE0051	GUMSU- new WP		KHABAROVSK PYONGYANG	
FE0052	New WP- GUMSU		KHABAROVSK PYONGYANG	
FE0053	New G711 BISUN-TERNI- RIVAT		KHABAROVSK PYONGYANG	
FE0056	RIVAT- new WP-		KHABAROVSK PYONGYANG FUKUOKA	
FE0031 ex APAC RUS11	SIMLI- new WP- BISUN		KHABAROVSK SHENYANG	
FE0030	new WP- AMERA- WZ		KHABAROVSK SHENYANG	
FE0017 ex APAC RUS12	WZ-along G494- SIMLI		KHABAROVSK SHENYANG	
FE0029 ex APAC RUS13	SIMLI- new WP- UGABI		KHABAROVSK SHENYANG	
FE0035 ex APAC RUS15	UGABI- new WP- AMERA- WZ		KHABAROVSK SHENYANG	
FE0041 Ex APAC RUS6	NALEB-SIMLI- HEK-new WP- BISUN-SANAR- ARLAS-new WP- new EKVIV		KHABAROVSK SHENYANG FUKUOKA	

Route Requirements- Users and States

	(eastbound) new EKVIK-new WP-ARLAS- SANAR-BISUN- new WP-AMERA- WZ-NALEB (westbound)			

ATS ROUTE NAME: PHI 1

REQUESTED BY: IATA

ENTRY/EXIT POINT

ROUTE DESCRIPTION

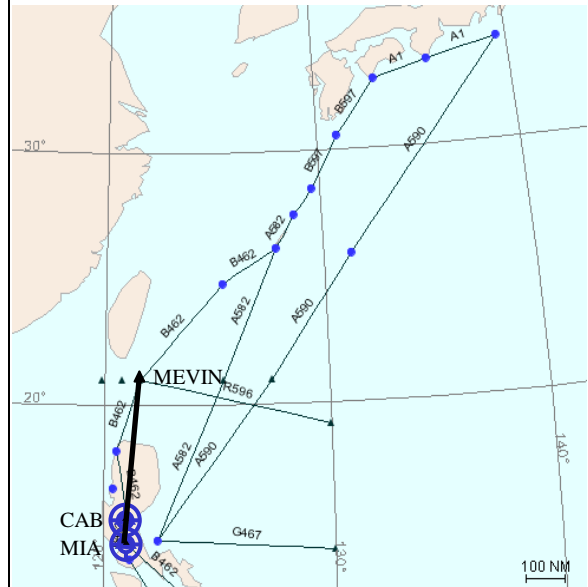
**Manila (MIA) .. MEVIN or
Cabanatuan (CAB) .. MEVIN**

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
CO ₂	550kg	200,750kg
No _x		

Remarks: Supports traffic between Manila and Japan/North America.

Potential City Pairs: Philippines-Japan/North America

ATS ROUTE NAME: PHI 3

REQUESTED BY: IATA

ENTRY/EXIT POINT
XXXXX

ROUTE DESCRIPTION
Shikang (TNN) ... XXXXX ... MUMOT

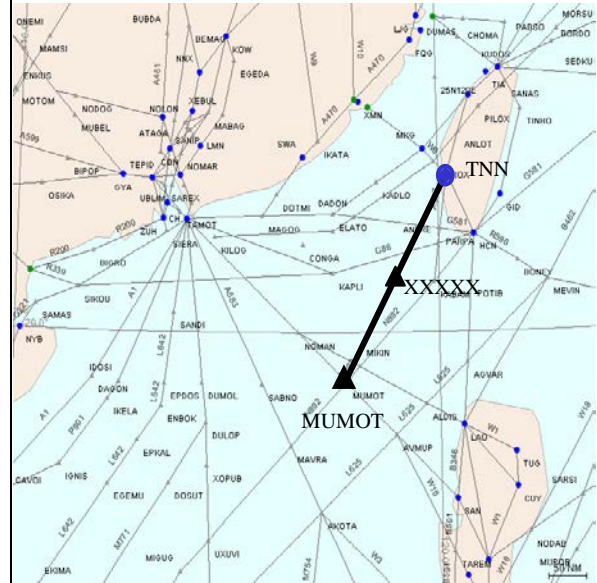
FLIGHT LEVEL BAND

29000 - 46000

PRIORITY: HIGH/MED/LOW

HIGH

CHART



Action Required	IATA
	ICAO

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

Remarks: Supports traffic from TNN to Southeast Asia

Potential City Pairs:

ATS ROUTE NAME: PHI 4

REQUESTED BY: IATA

ENTRY/EXIT POINT
XXXXX

ROUTE DESCRIPTION
AKOTA... XXXXX ... Hengchun (HCN)

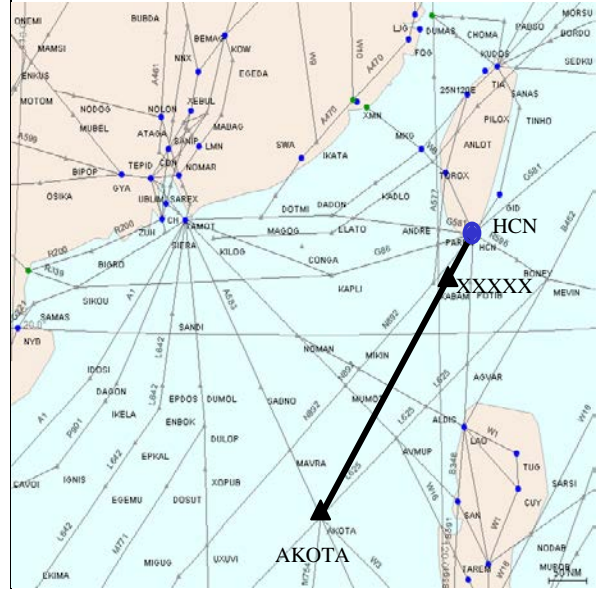
FLIGHT LEVEL BAND

29000 - 46000

PRIORITY: HIGH/MED/LOW

HIGH

CHART



Action Required	IATA
	ICAO

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

Remarks: Supports traffic from Southeast Asia to HCN

Potential City Pairs:

ATS ROUTE NAME: TPE 1
REQUESTED BY: IATA

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

Action Required	IATA
	ICAO

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

Remarks: Supports traffic between APU and Japan.

Potential City Pairs: SEA/HKG/TPE-Fukuoka

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

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

Remarks

Potential City Pairs: Europe-Shanghai

ATS ROUTE NAME: CHA2 (Renumbered from CHA 7)

REQUESTED BY: IATA

<p>ENTRY/EXIT POINT</p> <p>ROUTE DESCRIPTION Kuqa (KCA) .. Jiayuguan (CHW)</p> <p>FLIGHT LEVEL BAND 8400 – 15000 meters</p> <p>PRIORITY: HIGH/MED/LOW</p>	<p style="text-align: center;">CHART</p>
---	---

Action Required	IATA
	ICAO

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

Remarks: There are existing routes between KCA and CHW. Direct route is impossible.

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

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

REQUESTED BY: IATA

<p>ENTRY/EXIT POINT</p> <p>ROUTE DESCRIPTION Fukang (FKG) .. OMBON</p> <p>FLIGHT LEVEL BAND 8400 – 15000 meters</p> <p>PRIORITY: HIGH/MED/LOW</p>	<p style="text-align: center;">CHART</p>
--	---

Action Required	IATA
	ICAO

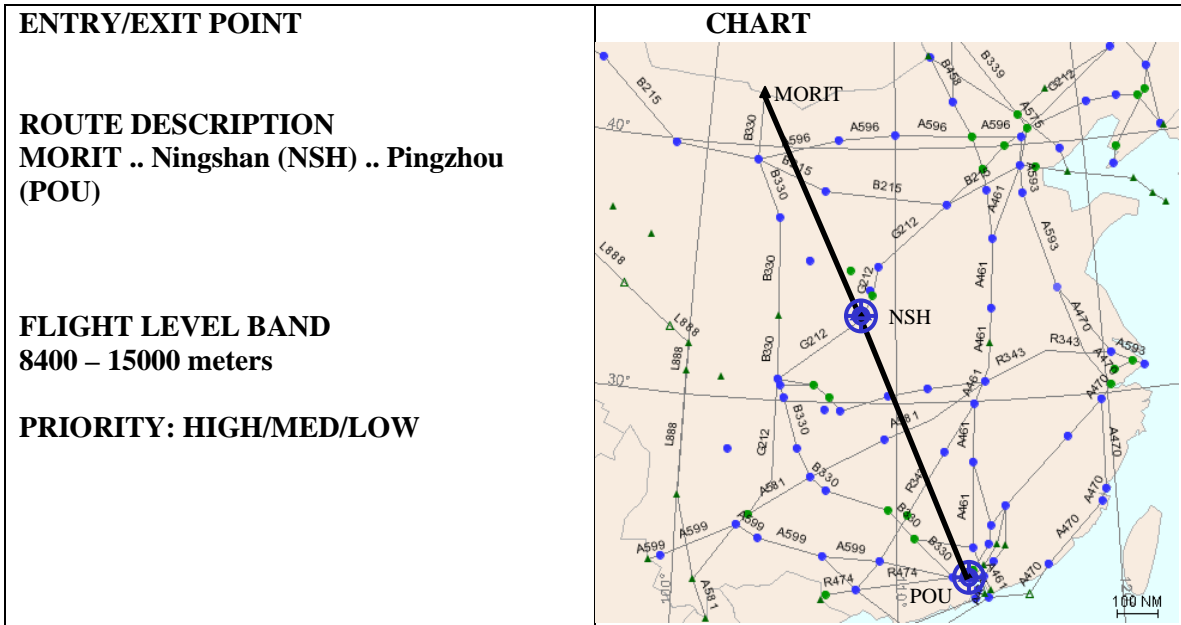
Saving	Per flight	Annual
Mileage / Time	123nm/ 15.5min	
Fuel	2000kg	730,000kg
CO ₂	6,150kg	2,245 tonnes
No _x		

Remarks: This direct route is impossible and can not be implemented at present.

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

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

REQUESTED BY: IATA



Action Required	IATA
	ICAO

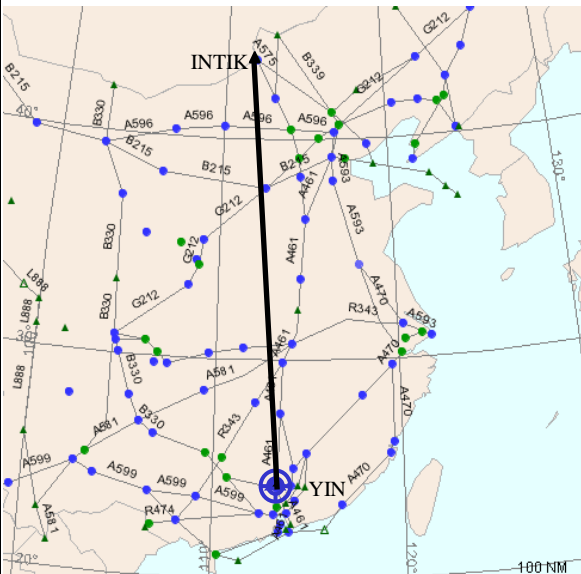
Saving	Per flight	Annual
Mileage / Time	152nm/ 19min	
Fuel	2470kg	901,000kg
CO ₂	7,600kg	2,774 tonnes
No _x		

Remarks: This direct route is impossible and can not be implemented.

Potential City Pairs: Europe Russia-Pearl River Delta Airports

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

REQUESTED BY: IATA

<p>ENTRY/EXIT POINT</p> <p>ROUTE DESCRIPTION Yingde (YIN) .. INTIK</p> <p>FLIGHT LEVEL BAND 8400 – 15000 meters</p> <p>PRIORITY: HIGH/MED/LOW</p>	<p style="text-align: center;">CHART</p> 
--	--

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: This direct route is impossible and can not be implemented.

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

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

REQUESTED BY: IATA

<p>ENTRY/EXIT POINT</p> <p>ROUTE DESCRIPTION OMBON .. Ningshan (NSH) .. OBLIK .. Luogang (SB)</p> <p>FLIGHT LEVEL BAND 8400 – 15000 meters</p> <p>PRIORITY: HIGH/MED/LOW</p>	<p style="text-align: center;">CHART</p>
--	---

Action Required	IATA
	ICAO

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

Remarks: This route is impossible and can not be implemented at present.

Potential City Pairs: Europe-Shanghai

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

REQUESTED BY: IATA

<p>ENTRY/EXIT POINT KANSU/XXXXX</p> <p>ROUTE DESCRIPTION KANSU .. KICHA .. Changchun (CGQ) .. Hailar (HLD)</p> <p>FLIGHT LEVEL BAND 8400 – 15000 meters</p> <p>PRIORITY: HIGH/MED/LOW</p>	<p style="text-align: center;">CHART</p>
---	---

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

ROUTE DESCRIPTION

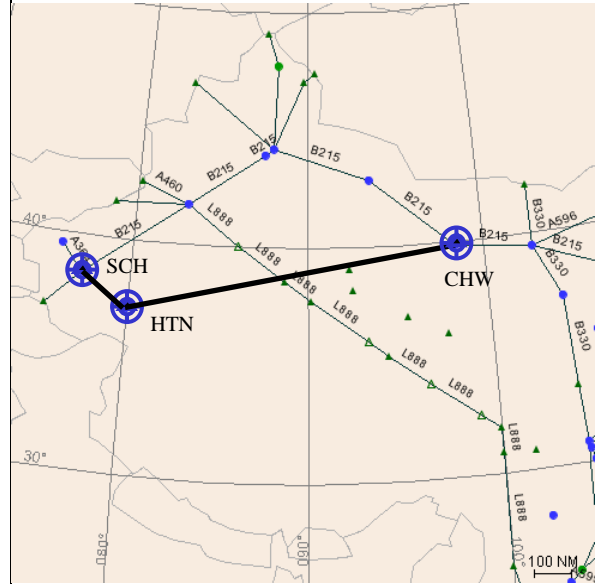
Shache (SCH) .. Hotan (HTN) .. Jiayuguan (CHW)

FLIGHT LEVEL BAND

8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



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: Direct route between HTN and CHW is impossible and can not be implemented at present.

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

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

REQUESTED BY: IATA

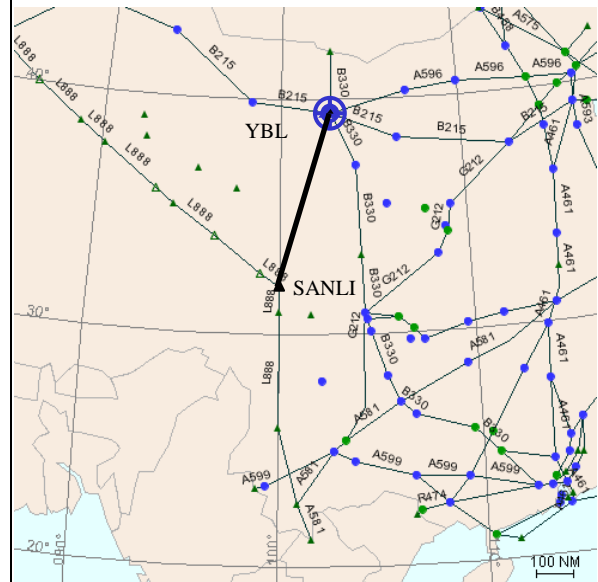
ENTRY/EXIT POINT

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: This direct route is impossible and can not be implemented at present.

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

ARGUK/BEMAG

ROUTE DESCRIPTION

ARGUK/DALIAN/HEFEI/BEMAG

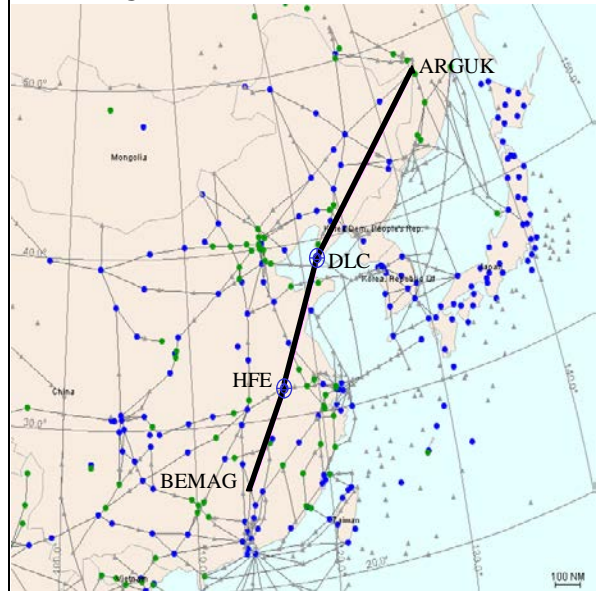
FLIGHT LEVEL BAND

8400-15000 metres

PRIORITY: HIGH/MED/LOW

HIGH

CHART



Action Required	IATA
	ICAO

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

Remarks: There are existing routes between ARGUK-DLC-HFE-BEMAG. Direct route between ARGUK-DLC-HFE-BEMAG is impossible.

Potential City Pairs: North America- Pearl River Delta

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

REQUESTED BY:IATA

ENTRY/EXIT POINT

DALIAN/(DLC) to XJT/B221

ROUTE DESCRIPTION

DALIAN/ XJT /B221

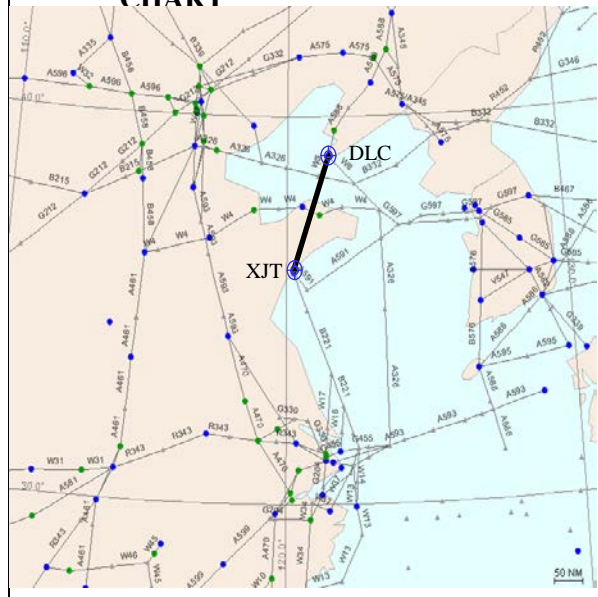
FLIGHT LEVEL BAND

8400-15000 metres

PRIORITY: HIGH/MED/LOW

HIGH

CHART



Action Required	IATA
	ICAO

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

Remarks: There are existing routes between DLC and XJT. Direct route is impossible.

Potential City Pairs: North America-Shanghai

ATS ROUTE NAME: CHA 12

Requested by : IATA

ENTRY/EXIT POINT

UNWW to WXI

ROUTE DESCRIPTION

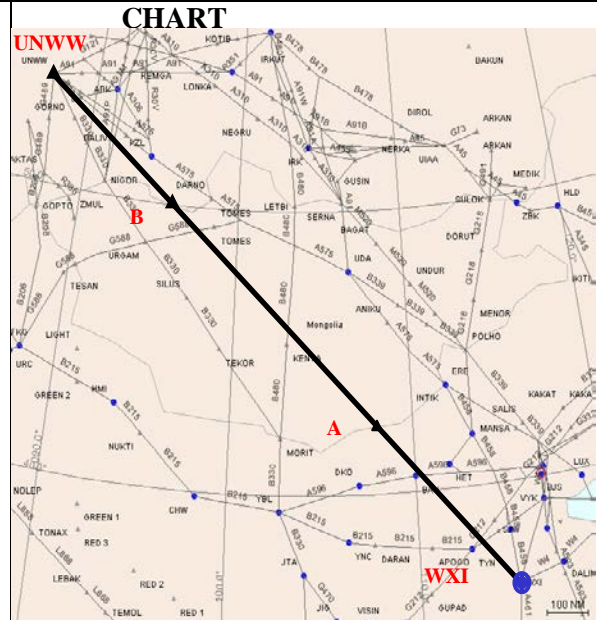
Weixian (WXI) .. A (ZBPE/ZMUB) .. B (ZMUB/UNKY) .. Novokuznetsk (UNWW)

Uni-directional

FLIGHT LEVEL BAND

28000 – 46000 feet

PRIORITY: HIGH/MED/LOW



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	166nm/20min	
Fuel	2620kg	956,000kg
CO ₂	8070kg	2,944 tonnes
No _x		

Remarks: This would allow following city pair flights to avoid the congested airspace around the Beijing Capital Airport.

Potential City Pairs: Pearl River Delta – Europe and Shanghai – Europe.

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: There are existing routes between OMBON and RO. Direct route is impossible at present.

Potential City Pairs: Europe –Pearl River Delta Airports

ATS ROUTE NAME: IATA 3

REQUESTED BY: IATA

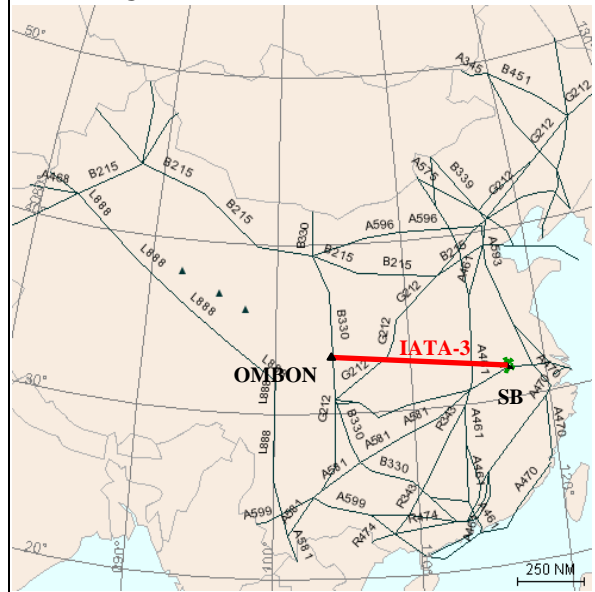
ENTRY/EXIT POINT

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: There are exiting routes between OMBON and SB; direct route is impossible at present.

Potential City Pairs: Europe-Shanghai

ATS ROUTE NAME: JAP 1

REQUESTED BY: IATA

Date: 25 June 2012

(ATM/AIS/SAR/SG-22)

ENTRY/EXIT POINT

TIC - APITO

ROUTE DESCRIPTION

PIC - APITO

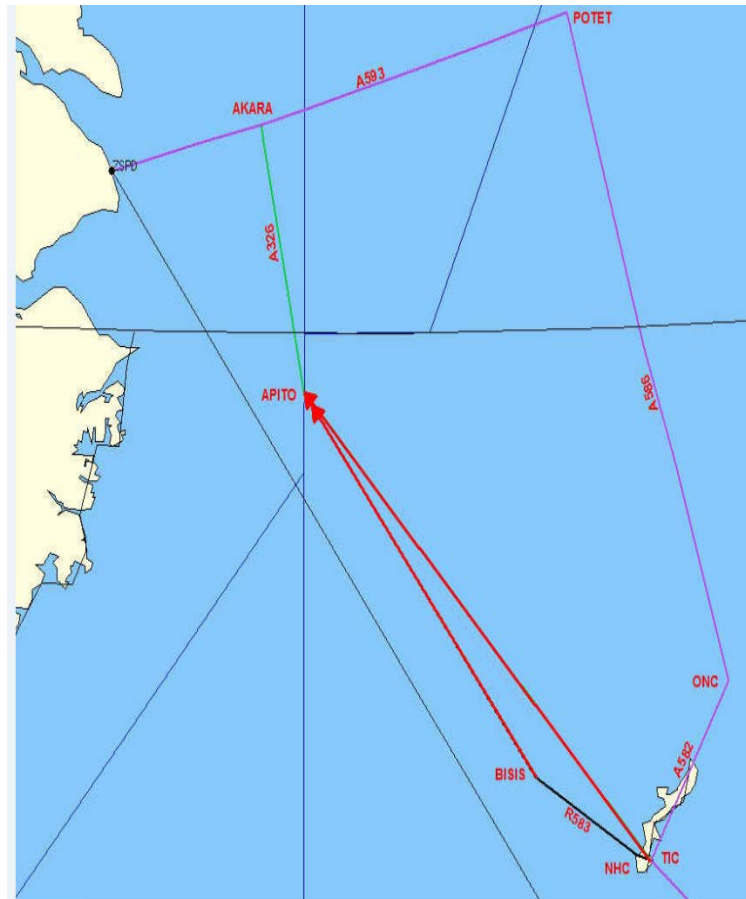
Alternative:

TIC – R583- BASIS – APITO

FLIGHT LEVEL BAND

PRIORITY:

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	19 mins/19 mins	
Fuel	3094kg/3021kg	kg
CO ₂	9591kg/9365	kg
No _x		

ATS ROUTE NAME: FE0008 / RDGE 15.003 / APAC RUS 5

Requested by : IATA / RUS

<p>ENTRY/EXIT POINT</p> <p>ROUTE DESCRIPTION</p> <p>Implementation of 2 bi-directional ATS routes:</p> <p>a. SIBIR – new waypoint on border Khabarovsk FIR/Fukuoka FIR – (new EKVIK waypoint)</p> <p>b. ARLAS – new waypoint on border Khabarovsk FIR/Fukuoka FIR – (new EKVIK waypoint)</p> <p>FLIGHT LEVEL BAND</p> <p>PRIORITY: HIGH/MED/LOW</p> <p>PLANNED IMPLEMENTATION DATE</p>	<p>CHART</p>
---	---------------------

Action Required	IATA
	ICAO Coordination Russian Federation, Japan

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

Remarks: improve north-south traffic flows between Khabarovsk FIR and Fukuoka FIR, Original SIBIR – LURED – EKVIK proposal will be changed due to new position of EKVIK further east as a result of the planned airspace structure change in Japan, when both new ATS routes will be implemented the existing B451 ARLAS-NATEK-LURED-IGROD will be withdrawn

Potential City Pairs:

ATS ROUTE NAME: FE0021 / RDGE 13.028 / APAC RUS 4

Requested by : IATA / RUS

<p>ENTRY/EXIT POINT</p> <p>ROUTE DESCRIPTION</p> <p>Implementation of bi-directional ATS route segment: AVGOK – GTC</p> <p>FLIGHT LEVEL BAND</p> <p>PRIORITY: HIGH/MED/LOW</p> <p>PLANNED IMPLEMENTATION DATE</p>	<p>CHART</p>
---	---------------------

Action Required	IATA
	ICAO Coordination Russian Federation, Japan

Saving	Per flight	Annual
Mileage / Time	13 NM	
Fuel		
CO ₂		
No _x		

Remarks: During a bi-lateral meeting between the State ATM Corporation and the JCAB Japan (in Tokyo, November 2012) a difference in coordinates of the AVGOK waypoint was identified in the aeronautical information publications of Russia and Japan. The incorrect coordinates were confirmed by Japan and a decision was made to report this issue to the appropriate Regional ICAO Offices. The Russian Federation proposes the following coordinates (4336N and 13815E) for the AVGOK waypoint

Potential City Pairs:

ATS ROUTE NAME: FE0034 / RDGE 16.027 / APAC RUS 9

Requested by : IATA / RUS

<p>ENTRY/EXIT POINT</p> <p>ROUTE DESCRIPTION</p> <p>Implementation of new bi-directional ATS route: RITEK – new waypoint 495025N 1182854E – HLD</p> <p>FLIGHT LEVEL BAND</p> <p>PRIORITY: HIGH/MED/LOW</p> <p>PLANNED IMPLEMENTATION DATE</p>	<p>CHART</p>
--	---------------------

Action Required	IATA
	ICAO Coordination Russian Federation, China

Saving	Per flight	Annual
Mileage / Time	159 NM	
Fuel		
CO ₂		
No _x		

Remarks:

Potential City Pairs:

ATS ROUTE NAME: FE0032 / RDGE 17.005

Requested by : IATA / TJK

<p>ENTRY/EXIT POINT</p> <p>ROUTE DESCRIPTION</p> <p>Implementation of new bi-directional ATS route segment: TOPAZ – SCH (Sache) or TOPAZ – HTN (Hotan)</p> <p>FLIGHT LEVEL BAND</p> <p>PRIORITY: HIGH/MED/LOW</p> <p>PLANNED IMPLEMENTATION DATE</p>	<p>CHART</p>
---	---------------------

Action Required	IATA
	ICAO Coordination China, Tajikistan

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

Remarks: further improve ATS route network in the interface between China and Tajikistan

Potential City Pairs:

ATS ROUTE NAME: FE0054 / RDGE 20.015

Requested by : PRK / RUS

ENTRY/EXIT POINT

ROUTE DESCRIPTION

Implementation of bi-directional ATS route
RIVAT (N412900 E1321600) –
GUMSU (N383800 E1302300)

FLIGHT LEVEL BAND

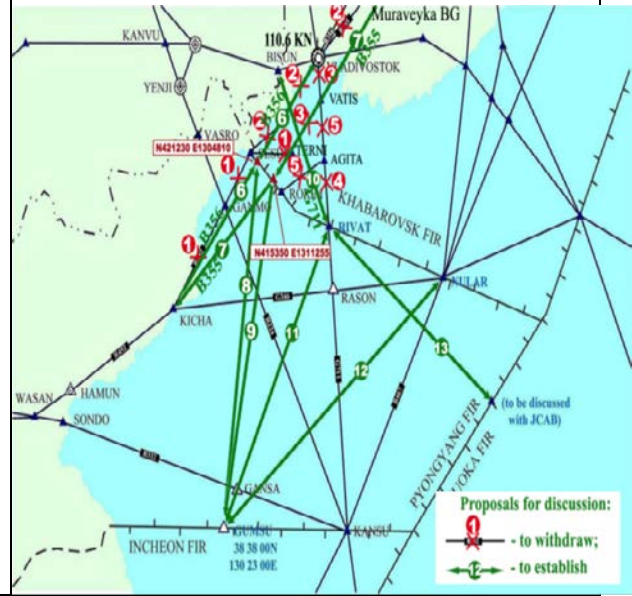
21000 – 53000 feet

PRIORITY: HIGH/MED/LOW

PLANNED IMPLEMENTATION DATE

11 December 2014

CHART



Action Required	IATA
	ICAO

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

Remarks: Khabarovsk/Vladivostok airspace re-organisation project, (in map No. 11)

Potential City Pairs:

ATS ROUTE NAME: FE0055 / RDGE 20.016

Requested by : PRK / RUS

ENTRY/EXIT POINT

ROUTE DESCRIPTION

Implementation of bi-directional ATS route
NULAR (N405912 E1341100) –
GUMSU (N383800 E1302300)

FLIGHT LEVEL BAND

28000 – 53000 feet

PRIORITY: HIGH/MED/LOW

PLANNED IMPLEMENTATION DATE

11 December 2014

CHART



Action Required	IATA
	ICAO

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

Remarks: Khabarovsk/Vladivostok airspace re-organisation project, (in map No. 12)

Potential City Pairs:

ATS ROUTE NAME: FE0022 / RDGE 13.033 / APAC RUS7

Requested by : RUS / IATA

<p>ENTRY/EXIT POINT</p> <p>ROUTE DESCRIPTION</p> <p>Implementation of bi-directional ATS route DIKUT – SANAR or DIKUT – SAMON</p> <p>FLIGHT LEVEL BAND</p> <p>PRIORITY: HIGH/MED/LOW</p> <p>PLANNED IMPLEMENTATION DATE</p>	<p>CHART</p>
---	---------------------

Action Required	IATA
	ICAO Coordination DPRK, Japan, Russian Federation

Saving	Per flight	Annual
Mileage / Time	160 NM	
Fuel		
CO ₂		
No _x		

Remarks: revised proposal for bi-directional route from BISUN – TERNI – RIVAT in combination with the Vladivostok/Khabarovsk airspace structure changes

Potential City Pairs:

ATS ROUTE NAME: FE0044 / RDGE 20.005

Requested by : PRK / RUS

ENTRY/EXIT POINT

ROUTE DESCRIPTION

Withdrawal of the ATS route segment
R452:
KICHA (N404103 E1291132) –
SESUR (N421730 E1304130) –
TERNI (N422213 E1314003)

FLIGHT LEVEL BAND

PRIORITY: HIGH/MED/LOW

PLANNED IMPLEMENTATION DATE
 As part of project in 2015

CHART



Action Required	IATA
	ICAO
	Coordination DPRK, Russian Federation

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

Remarks: Khabarovsk/Vladivostok airspace re-organisation project, (in map No. 1)

Potential City Pairs:

ATS ROUTE NAME: FE0045 / RDGE 20.006

Requested by : PRK / RUS

ENTRY/EXIT POINT

ROUTE DESCRIPTION

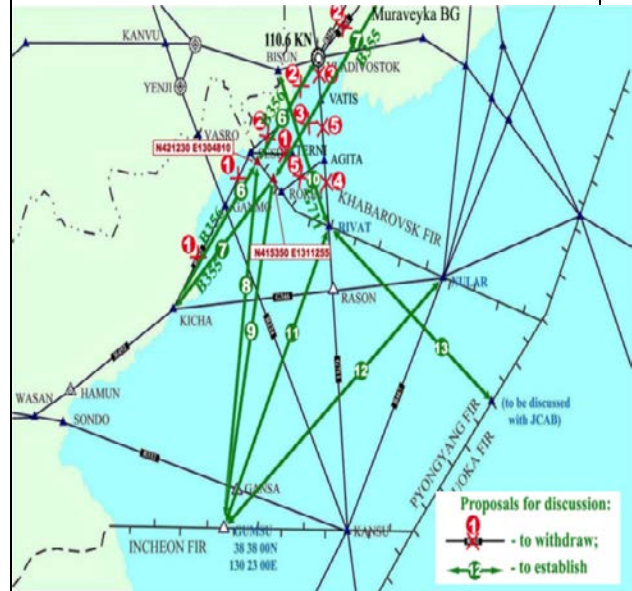
Withdrawal of the ATS route segment
B355:
Muraveyka (BG) (N435303 E1331511) –
DIKUT (N432355 E1320851) –
GAMOV (N423301 E1311303) –
SESUR (N421730 E1304130)

FLIGHT LEVEL BAND

PRIORITY: HIGH/MED/LOW

PLANNED IMPLEMENTATION DATE
 As part of project in 2015

CHART



Action Required	IATA
	ICAO
	Coordination DPRK, Russian Federation

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

Remarks: Khabarovsk/Vladivostok airspace re-organisation project, (in map No. 2)

Potential City Pairs:

ATS ROUTE NAME: FE0046 / RDGE 20.007

Requested by : PRK / RUS

ENTRY/EXIT POINT

ROUTE DESCRIPTION

Withdrawal of the ATS route segment **B124:**
DIKUT (N432355 E1320851) –
VATIS (N425143 E1320851) –
TERNI (N422213 E1314003)

FLIGHT LEVEL BAND

PRIORITY: HIGH/MED/LOW

PLANNED IMPLEMENTATION DATE
 As part of project in 2015

CHART



Action Required	IATA
	ICAO
	Coordination DPRK, Russian Federation

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

Remarks: Khabarovsk/Vladivostok airspace re-organisation project, (in map No. 3)

Potential City Pairs:

ATS ROUTE NAME: FE0047 / RDGE 20.008

Requested by : PRK / RUS

ENTRY/EXIT POINT

ROUTE DESCRIPTION

Withdrawal of the ATS route segment
G711:
AGITA (N421937 E1321151) –
RIVAT (N412900 E1321600)

FLIGHT LEVEL BAND

PRIORITY: HIGH/MED/LOW

PLANNED IMPLEMENTATION DATE

As part of project in 2015

CHART



Action Required	IATA
	ICAO
	Coordination DPRK, Russian Federation

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

Remarks: Khabarovsk/Vladivostok airspace re-organisation project, (in map No. 4)

Potential City Pairs:

ATS ROUTE NAME: FE0048 / RDGE 20.009

Requested by : PRK / RUS

ENTRY/EXIT POINT

ROUTE DESCRIPTION

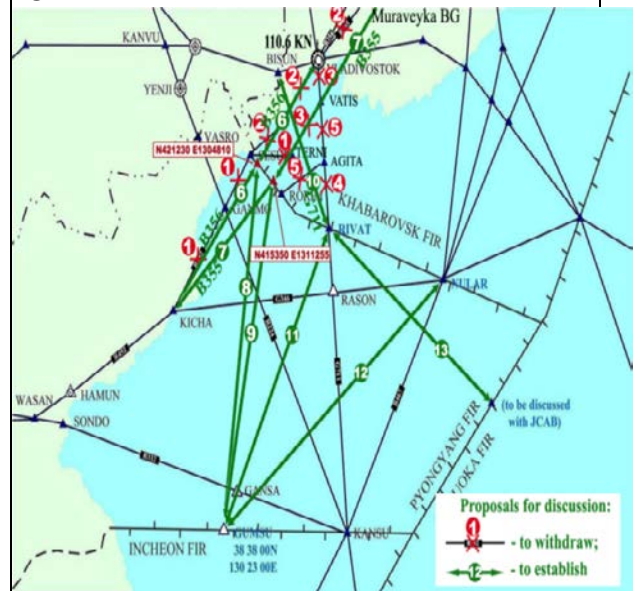
Withdrawal of the ATS route segment **G721:**
VATIS (N425143 E1320851) –
AGITA (N421937 E1321151) –
RORIM (N415031 E1311639)

FLIGHT LEVEL BAND

PRIORITY: HIGH/MED/LOW

PLANNED IMPLEMENTATION DATE
 As part of project in 2015

CHART



Action Required	IATA
	ICAO Coordination DPRK, Russian Federation

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

Remarks: Khabarovsk/Vladivostok airspace re-organisation project, (in map No. 5)

Potential City Pairs:

ATS ROUTE NAME: FE0049 / RDGE 20.010

Requested by : PRK / RUS

ENTRY/EXIT POINT

ROUTE DESCRIPTION

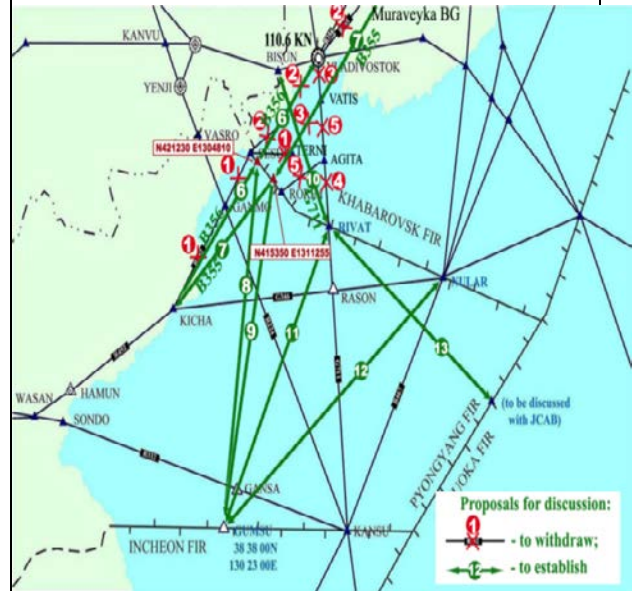
Implementation of uni-directional eastbound ATS route segment **B356: KICHA (N404103 E1291140) – new waypoint (N421230 E1304810) – 110.6 KN Vladivostok (N432303 E1320708)**

FLIGHT LEVEL BAND
17000 – 53000 feet

PRIORITY: HIGH/MED/LOW

PLANNED IMPLEMENTATION DATE
As part of project in 2015

CHART



Action Required	IATA
	ICAO
	Coordination DPRK, Russian Federation

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

Remarks: Khabarovsk/Vladivostok airspace re-organisation project, (in map No. 6)

Potential City Pairs:

ATS ROUTE NAME: FE0050 / RDGE 20.011

Requested by : PRK / RUS

ENTRY/EXIT POINT

ROUTE DESCRIPTION

Implementation of uni-directional westbound ATS route segment **B355**:
Muraveyka (BG) (N435303 E1331511) – VATIS (N425143 E1320851) – TERNI (N422213 E1314003) – new waypoint (N415350 E1311255) – KICHA (N404106 E1291140)

FLIGHT LEVEL BAND

18000 – 51000 feet

PRIORITY: HIGH/MED/LOW

PLANNED IMPLEMENTATION DATE

As part of project in 2015

CHART



Action Required	IATA
	ICAO
	Coordination DPRK, Russian Federation

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

Remarks: Khabarovsk/Vladivostok airspace re-organisation project, (in map No. 7)

Potential City Pairs:

ATS ROUTE NAME: FE0051 / RDGE 20.012

Requested by : PRK / RUS

ENTRY/EXIT POINT

ROUTE DESCRIPTION

Implementation of new uni-directional eastbound ATS route segment:
GUMSU (N383800 E1302300) – new waypoint (N421230 E1304810)

FLIGHT LEVEL BAND

29000 – 53000 feet

PRIORITY: HIGH/MED/LOW

PLANNED IMPLEMENTATION DATE

As part of project in 2015

CHART



Action Required	IATA
	ICAO
	Coordination DPRK, Russian Federation

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

Remarks: Khabarovsk/Vladivostok airspace re-organisation project, (in map No. 8)

Potential City Pairs:

ATS ROUTE NAME: FE0053 / RDGE 20.014

Requested by : PRK / RUS

ENTRY/EXIT POINT

ROUTE DESCRIPTION

Implementation of bi-directional ATS route segment **G711:**

**BISUN (N431400 E1311148) –
 TERNI (N422213 E1314003) –
 RIVAT (N412900 E1321600)**

FLIGHT LEVEL BAND

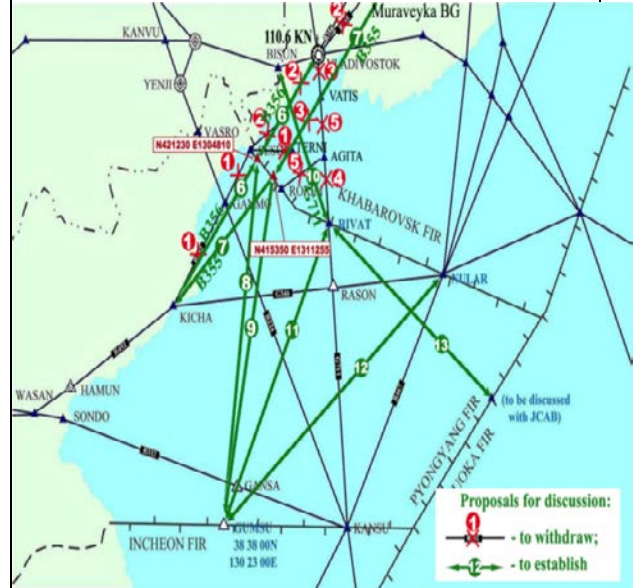
21000 – 53000 feet

PRIORITY: HIGH/MED/LOW

PLANNED IMPLEMENTATION DATE

As part of project in 2015

CHART



Action Required	IATA
	ICAO
	Coordination DPRK, Russian Federation

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

Remarks: Khabarovsk/Vladivostok airspace re-organisation project, (in map No. 10)

Potential City Pairs:

ATS ROUTE NAME: FE0056 / RDGE 20.017

Requested by : PRK / RUS

ENTRY/EXIT POINT

ROUTE DESCRIPTION

Implementation of new bi-directional ATS route segment:

RIVAT (N412900 E1321600) – to new waypoint on FIR border (NXXXXXX EXXXXXX) between Pyongyang FIR and Fukuoka FIR

FLIGHT LEVEL BAND

PRIORITY: HIGH/MED/LOW

PLANNED IMPLEMENTATION DATE

As part of project in 2015

CHART



Action Required	IATA
	ICAO
	Coordination DPRK, Japan, Russian Federation

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

Remarks: Khabarovsk/Vladivostok airspace re-organisation project, (in map No. 13), for further discussion with JCAB, Japan

Potential City Pairs:

ATS ROUTE NAME: FE0031 / RDGE 16.005 / APAC RUS11

Requested by : IATA / RUS

ENTRY/EXIT POINT

ROUTE DESCRIPTION

Implementation of new uni-directional eastbound ATS route:

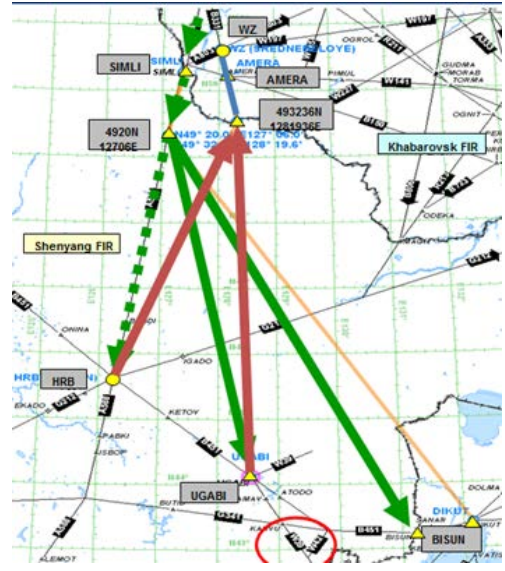
**SIMLI –
new waypoint 4920N 12706E –
BISUN**

FLIGHT LEVEL BAND

PRIORITY: HIGH/MED/LOW

PLANNED IMPLEMENTATION DATE

CHART



Action Required	IATA
	ICAO
	Coordination Russian Federation, China

Saving	Per flight	Annual
Mileage / Time	150 NM	
Fuel		
CO ₂		
No _x		

Remarks: SIMLI dualisation/reorganisation project

Potential City Pairs:

ATS ROUTE NAME: FE0030 / RDGE 18.020

Requested by : IATA / RUS

ENTRY/EXIT POINT

ROUTE DESCRIPTION

Implementation of new bi-directional ATS route segment:

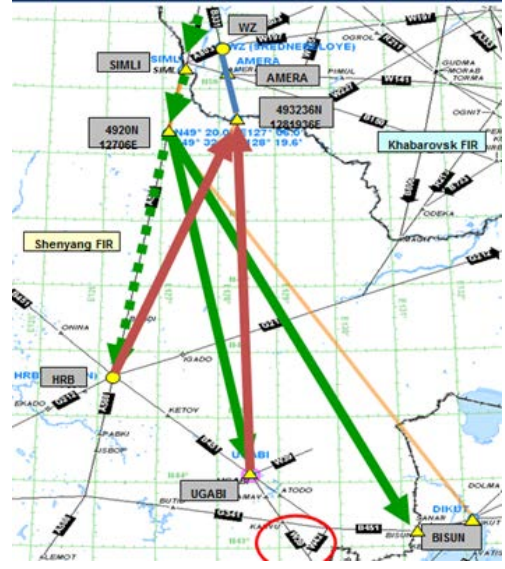
**new waypoint 493236N 1281936E –
AMERA –
WZ (Srednebeloye)**

FLIGHT LEVEL BAND

PRIORITY: HIGH/MED/LOW

PLANNED IMPLEMENTATION DATE

CHART



Action Required	IATA
	ICAO
	Coordination Russian Federation, China

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

Remarks: SIMLI dualisation/reorganisation project

Potential City Pairs:

ATS ROUTE NAME: FE0017 / RDGE 15.035 / APAC RUS12

Requested by : IATA / RUS

ENTRY/EXIT POINT

ROUTE DESCRIPTION

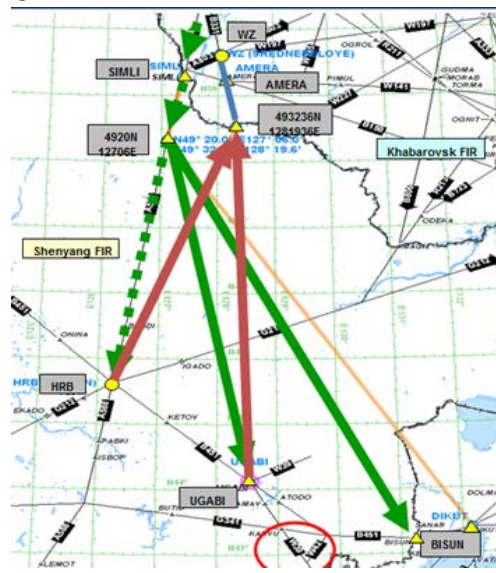
Implementation of new uni-directional westbound ATS route segment:
WZ (Srednebeloye) – along G494 – SIMLI

FLIGHT LEVEL BAND

PRIORITY: HIGH/MED/LOW

PLANNED IMPLEMENTATION DATE

CHART



Action Required	IATA
	ICAO Coordination Russian Federation, China

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

Remarks: SIMLI dualisation/reorganisation project

Potential City Pairs:

ATS ROUTE NAME: FE0029 / RDGE 18.031 / APAC RUS13

Requested by : IATA / RUS

ENTRY/EXIT POINT

ROUTE DESCRIPTION

Implementation of new uni-directional eastbound ATS route segment:

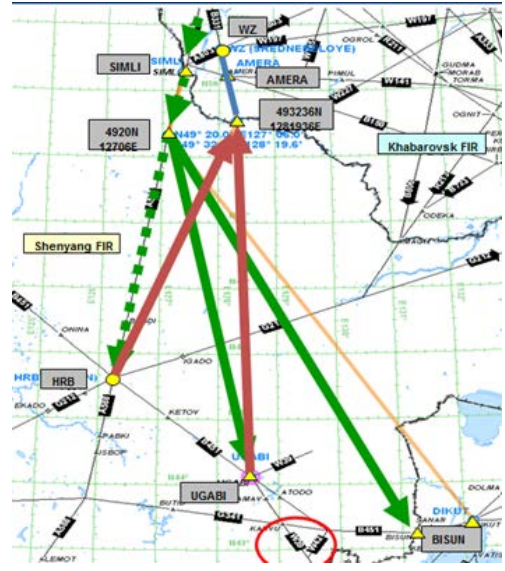
**SIMLI –
new waypoint 4920N 12706E –
UGABI**

FLIGHT LEVEL BAND

PRIORITY: HIGH/MED/LOW

PLANNED IMPLEMENTATION DATE

CHART



Action Required	IATA
	ICAO Coordination Russian Federation, China

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

Remarks: SIMLI dualisation/reorganisation project

Potential City Pairs:

ATS ROUTE NAME: FE0035 / RDGE 18.030 / APAC RUS15

Requested by : IATA / RUS

ENTRY/EXIT POINT

ROUTE DESCRIPTION

Implementation of new uni-directional westbound ATS route segment:

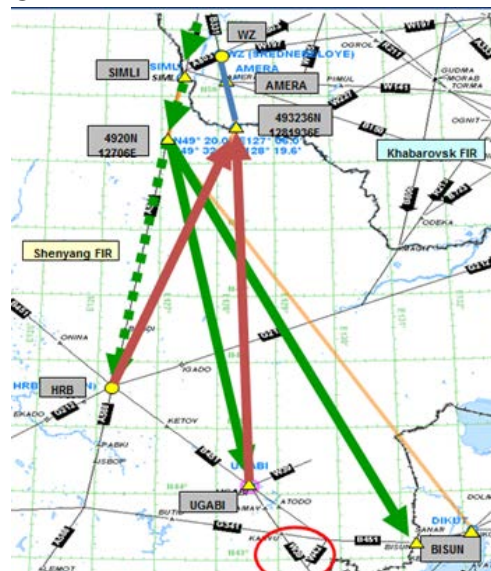
UGABI –
new waypoint 493236N 1281936E –
AMERA –
WZ

FLIGHT LEVEL BAND

PRIORITY: HIGH/MED/LOW

PLANNED IMPLEMENTATION DATE

CHART



Action Required	IATA
	ICAO
	Coordination Russian Federation, China

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

Remarks: SIMLI dualisation/reorganisation project

Potential City Pairs:

ATS ROUTE NAME: FE0041 / RDGE 19.018

Requested by : IATA / RUS

ENTRY/EXIT POINT	CHART
<p>ROUTE DESCRIPTION</p> <p>Implementation of 2 new uni-directional ATS route segments:</p> <p>a. eastbound unidirectional traffic via NALEB – SIMLI – HEK – 492000N 1270600E – BISUN – SANAR – ARLAS – new waypoint on FIR border – new EKVIK</p> <p>b. westbound unidirectional traffic via new EKVIK – new waypoint on FIR border – ARLAS – SANAR – BISUN – new waypoint 493236N 1281936E – AMERA – WZ – NALEB</p> <p>FLIGHT LEVEL BAND</p> <p>PRIORITY: HIGH/MED/LOW</p> <p>PLANNED IMPLEMENTATION DATE</p>	

Action Required	IATA
	ICAO Coordination Russian Federation, China

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

Remarks: SIMLI dualisation/reorganisation project, further improvement of north-south traffic flows between Khabarovsk FIR and Fukuoka FIR, alternative proposal to APAC RUS6,

Potential City Pairs:

ATS ROUTE NAME: RUS 3

Requested by : IATA

<p>ENTRY/EXIT POINT XXXXX</p> <p>ROUTE DESCRIPTION Muraveyka (BG) .. TELOD .. XXXXX .. Gangwon (KAE)</p> <p>FLIGHT LEVEL BAND 28000 – 46000 feet</p> <p>PRIORITY: HIGH/MED/LOW</p> <p>“XXXXX” Approx N38 38.0 E129 24.7</p>	<p>CHART</p>
---	---------------------

Action Required	IATA
	ICAO

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

Remarks

Potential City Pairs: North America- Inchoen

ATS ROUTE NAME: RUS 4
REQUESTED BY: IATA

ENTRY/EXIT POINT	CHART
ROUTE DESCRIPTION	
AVGOK-GTC	
FLIGHT LEVEL BAND	
PRIORITY:	
States concerned	
JAPAN RUSSIAN FEDERATION	

Action Required	IATA
	ICAO

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

Russian Federation: Further discussion with Japan required through the ICAO APAC Office.

Objective:
 To reduce route distance of 13 NM as compared to current routing AVGOK-KADBO-RJSN.

ATS ROUTE NAME: RUS 5
REQUESTED BY: IATA /RUSSIA

ENTRY/EXIT POINT

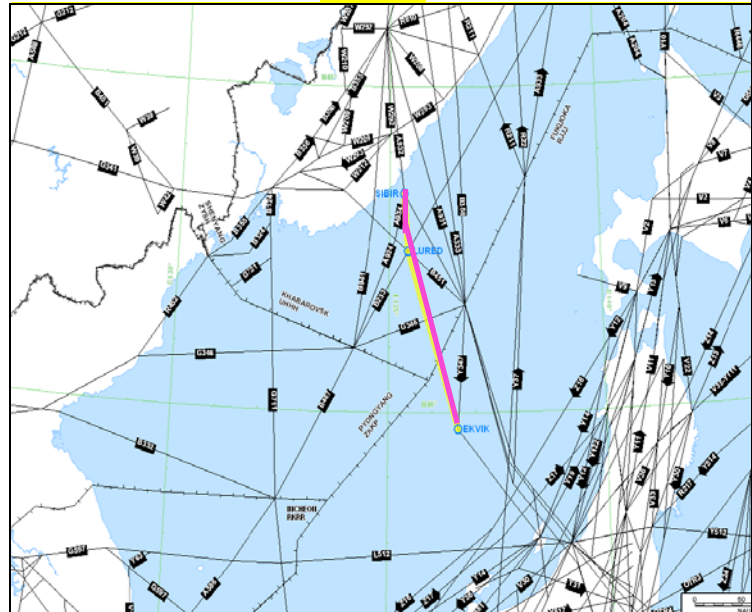
ROUTE DESCRIPTION
 bidirectional ATS route **SIBIR**
 – LURED – EKVIK.
FLIGHT LEVEL BAND

PRIORITY:

States concerned

JAPAN
RUSSIAN FEDERATION

CHART



Action Required	IATA
	ICAO

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

*Russian Federation: New waypoint needed 404751N1361021E (FIR Boundary), coordination with Japan (Fukuoka FIR) required.
 Alternative bi-directional route to EN15. Implementation planned for 2Q 2013.*

Objective:

To improve north-south traffic flows between Khabarovsk FIR and Fukuoka FIR.

ATS ROUTE NAME: CHA13
REQUESTED BY: IATA

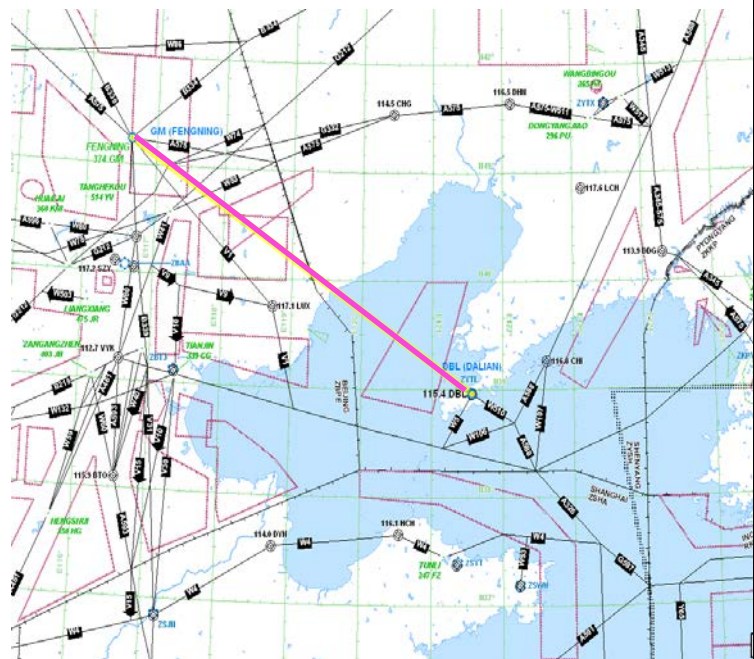
ENTRY/EXIT POINT

ROUTE DESCRIPTION
FLIGHT LEVEL BAND
 GM - DBL.
PRIORITY:

States concerned

CHINA

CHART



Action Required	IATA
	ICAO

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

Part of IATA EUR-North Asia package - #EN13.

China: Further discussions required via ICAO APAC Office.

Objective:

To reduce route distance of 67 NM as compared to current routing GM-LADIX-MAKNO.

ATS ROUTE NAME: RUS 6
REQUESTED BY: IATA

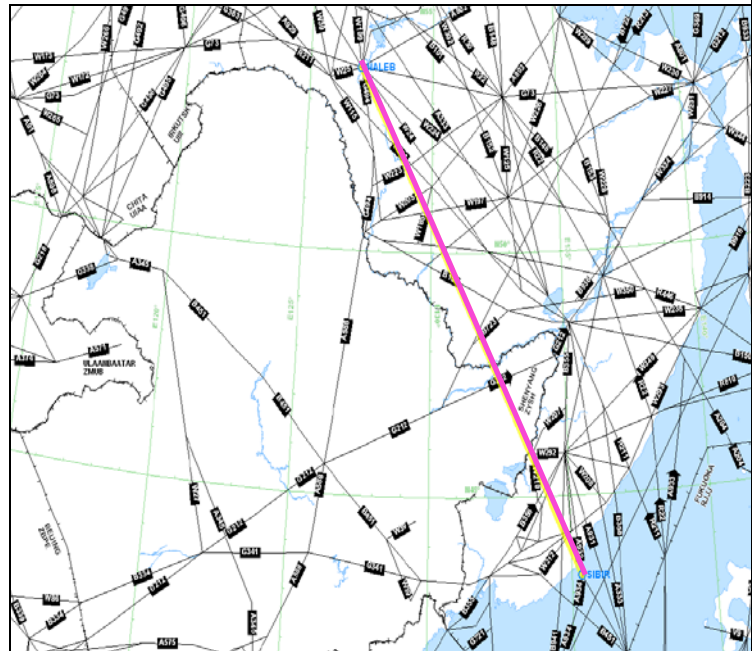
ENTRY/EXIT POINT

ROUTE DESCRIPTION
FLIGHT LEVEL BAND
 NALEB - SIBIR.
PRIORITY:

States concerned

CHINA
 RUSSIAN FEDERATION

CHART



Action Required

IATA
 ICAO

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

Part of IATA EUR-North Asia package - #EN6.

Objective:

To reduce route distance of 63 NM as compared to current routing LALIR-SOVIK-HAB-TD-SIBIR.

ATS ROUTE NAME: RUS 7
REQUESTED BY: IATA

ENTRY/EXIT POINT

ROUTE DESCRIPTION
 ATS route segment **DIKUT** or **SANAR - SAMON**.

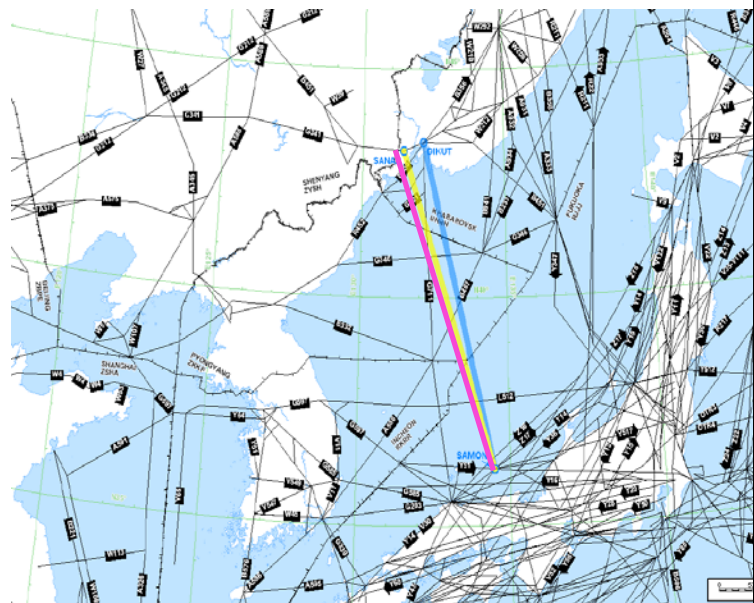
FLIGHT LEVEL BAND

PRIORITY:

States concerned

JAPAN
 RUSSIAN FEDERATION
 DEM. PEOPLE'S REP. OF KOREA

CHART



Action Required

IATA
ICAO

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

Part of IATA EUR-North Asia package - #EN9.

Russian Federation: Further discussion/studies required. Difficult to implement.

Objective:

To reduce route distance of 160 NM as compared to current routing DIKUT-KANSU-JEC.

ATS ROUTE NAME: RUS 8
REQUESTED BY: IATA

ENTRY/EXIT POINT

ROUTE DESCRIPTION
 KANSU - TOMMY.

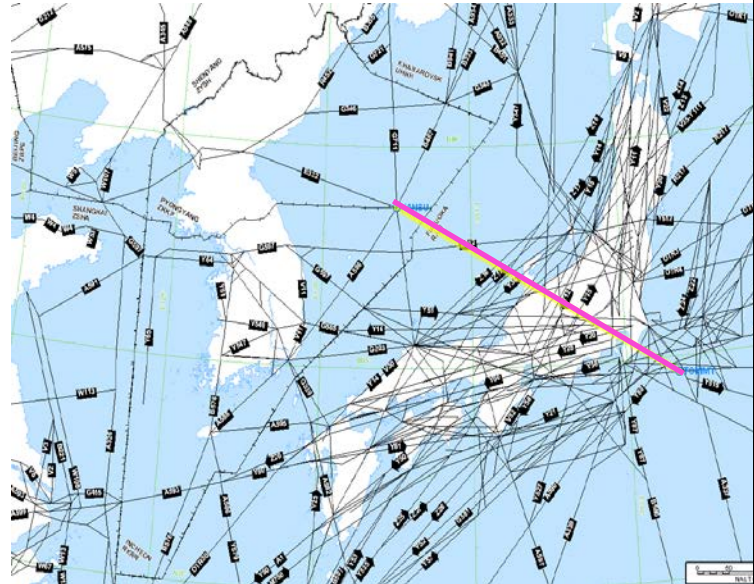
FLIGHT LEVEL BAND

PRIORITY:

States concerned

KOREA
 JAPAN

CHART



Action Required

IATA

ICAO

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

Part of IATA EUR-North Asia package - #EN14.

China: Further discussion between China and Korea also required via ICAO APAC Office.

Objective:

To reduce route distance of 64 NM as compared to current routing KANSU-IGRAS-TOMMY.

ATS ROUTE NAME: RUS 9
REQUESTED BY: IATA/RUSSIA

ENTRY/EXIT POINT

ROUTE DESCRIPTION

**RITEK- new waypoint 495025N
 1182854E - HLD**

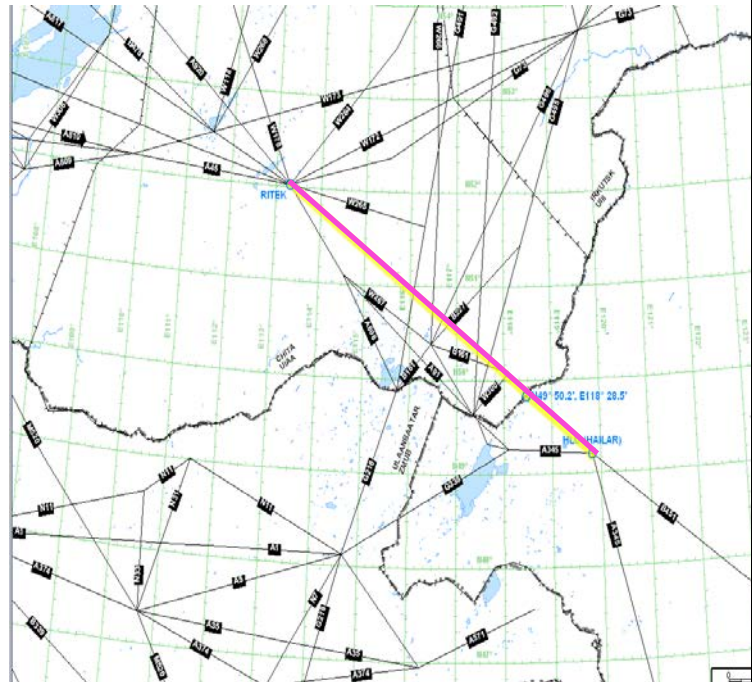
FLIGHT LEVEL BAND

PRIORITY:

States concerned

**CHINA
 RUSSIAN FEDERATION**

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time		
Fuel		
CO₂		
No_x		

Further studies/coordination required. Updates will be given when available.

Alternative uni-directional eastbound route proposal for EN11, proposal 13.035 (deleted from catalogue).

Objective:

To reduce route distance of 159 NM as compared to current routing PTG-RITEK-HLD-DIKUT-KANSU

ATS ROUTE NAME: *RUS 10*
REQUESTED BY: IATA/RUSSIA

ENTRY/EXIT POINT

ROUTE DESCRIPTION

TIKUN - URILA - GINUR - GU.

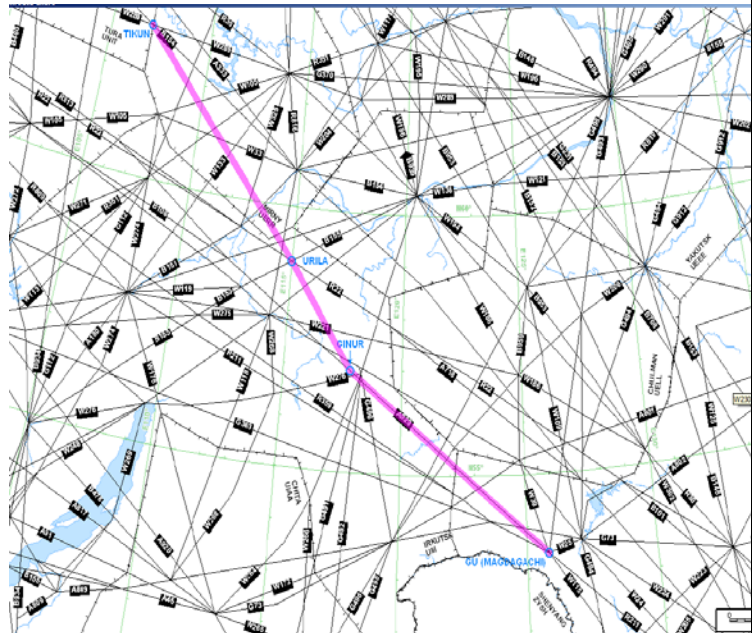
FLIGHT LEVEL BAND

PRIORITY:

States concerned

CHINA
 RUSSIAN FEDERATION

CHART



Action Required	IATA
	ICAO

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

Part of IATA EUR-North Asia package - #EN10.

China: Proposal can partly be withdrawn due to lack of CNS capabilities for the segment URILA-492000N1270600E. Alternative proposal made.

Russian Federation: Further studies/discussion required.

Objective:

To reduce route distance of 150 NM as compared to current routing TIKUN-IVADA-TD-DIKUT.

ATS ROUTE NAME: RUS 11
REQUESTED BY: IATA/RUSSIA

ENTRY/EXIT POINT

ROUTE DESCRIPTION
SIMLI - new waypoint 492000N
1270600E - DIKUT.

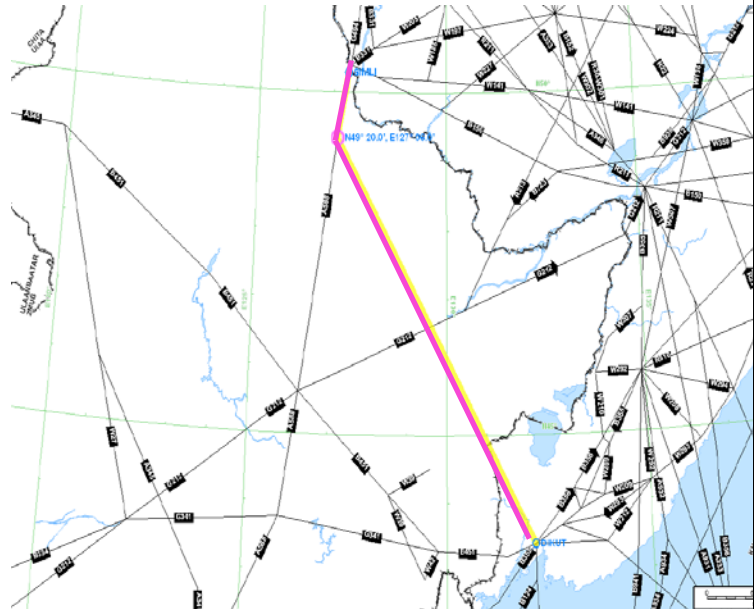
FLIGHT LEVEL BAND

PRIORITY:

States concerned

CHINA
RUSSIAN FEDERATION

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time		
Fuel		
CO₂		
No_x		

Further studies/coordination required. Updates will be given when available.

Objective:

To reduce route distance of 150 NM as compared to current routing TIKUN-IVADA-TD-DIKUT.

ATS ROUTE NAME: *RUS 12*
REQUESTED BY: IATA/RUSSIA

ENTRY/EXIT POINT

ROUTE DESCRIPTION

Unidirectional Westbound
 route HRB - 493236N 1281936E -
 AMERA – WZ

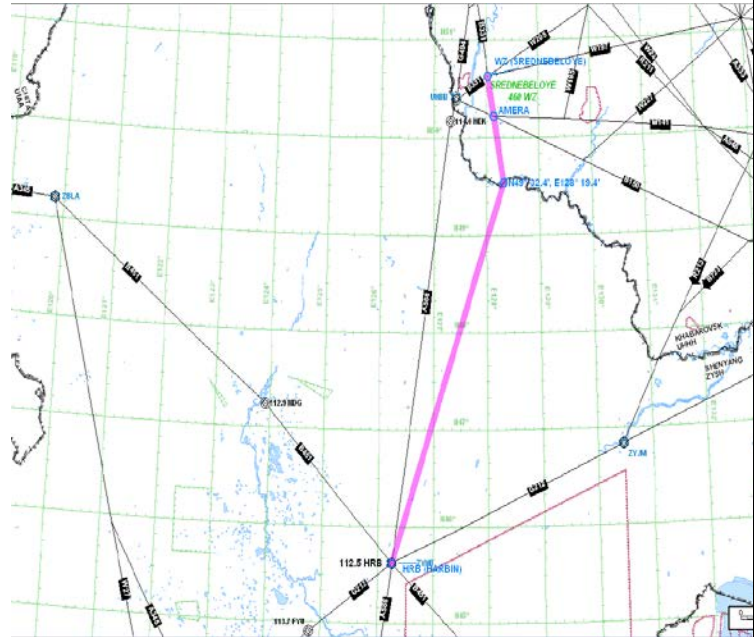
FLIGHT LEVEL BAND

PRIORITY:

States concerned

CHINA
 DEM. PEOPLE'S REP. OF KOREA
 RUSSIAN FEDERATION

CHART



Action Required	IATA
	ICAO

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

Russian Federation: westbound ATS route is needed for unloading traffic from SIMLI

ATS ROUTE NAME: RUS 13
REQUESTED BY: IATA/RUSSIA

ENTRY/EXIT POINT

ROUTE DESCRIPTION

unidirectional Eastbound
 route SIMLI - HEK - 492000N
 12706E - LEPNI - 422624.7N
 1294454.7E - KANSU

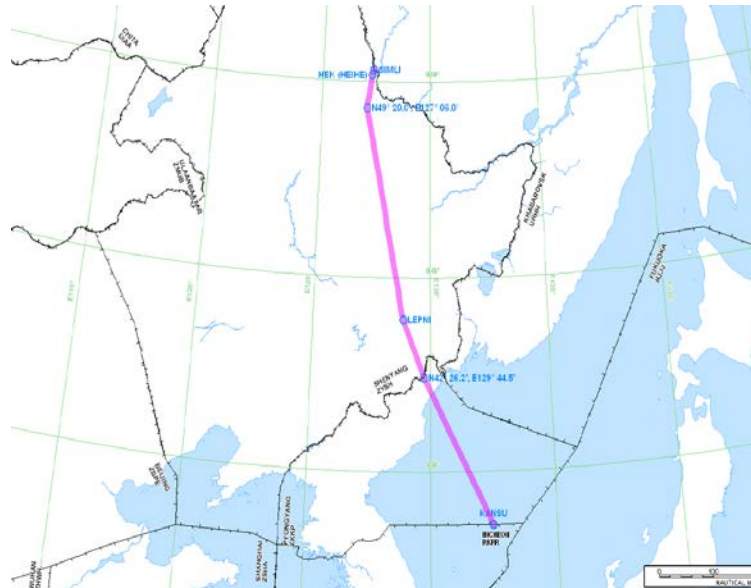
FLIGHT LEVEL BAND

PRIORITY:

States concerned

CHINA
 DEM. PEOPLE'S REP. OF KOREA
 RUSSIAN FEDERATION

CHART



Action Required	IATA
	ICAO

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

Russian Federation: eastbound ATS route is needed for unloading traffic from SIMLI.
 China: Confirmation of interest in this ATS route but further studies/coordination are needed, updates will be given when available.

ATS ROUTE NAME: *RUS 14*
REQUESTED BY: IATA/RUSSIA

ENTRY/EXIT POINT

ROUTE DESCRIPTION

FLIGHT LEVEL BAND

PRIORITY:

States concerned CHINA
 DEM. PEOPLE'S REP. OF KOREA
 RUSSIAN FEDERATION

CHART



Action Required	IATA
	ICAO

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

Alternative bi-directional route

Objective:

To reduce route distance of 159 NM as compared to current routing PTG-RITEK-HLD-DIKUT-KANSU.

ATS ROUTE NAME: *RUS 15*
REQUESTED BY: IATA/RUSSIA

ENTRY/EXIT POINT

ROUTE DESCRIPTION

Westbound ATS route **LEPNI**
 435542N 1285030E - new waypoint
 493236N

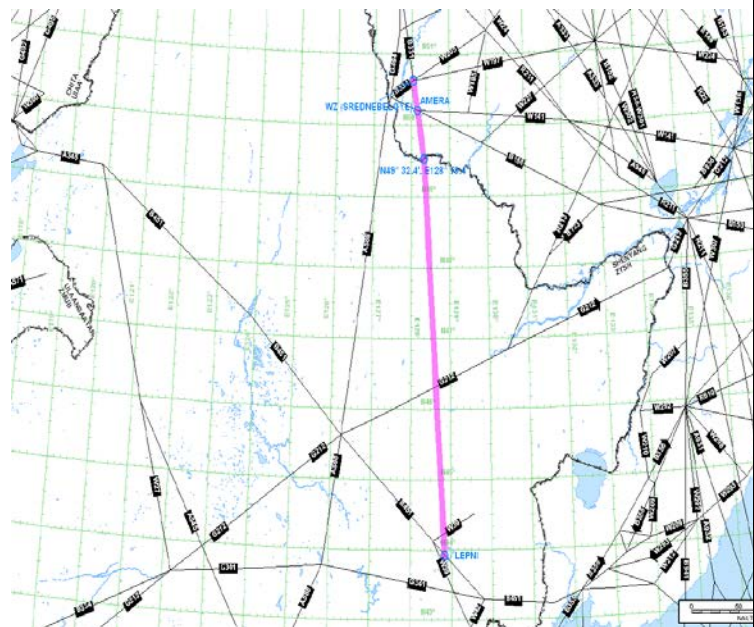
FLIGHT LEVEL BAND

PRIORITY:

States concerned

CHINA
 RUSSIAN FEDERATION

CHART



Action Required

IATA

ICAO

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

Further studies/coordination required. Updates will be given

Chapter 4: Pacific

(referred to: IPACG, ISPACG as appropriate for review)