

ASIA/PACIFIC REGION ATS ROUTE CATALOGUE



INTERNATIONAL CIVIL AVIATION ORGANIZATION
ASIA/PACIFIC REGIONAL OFFICE

VERSION 13-14

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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	11 September 2014	SAIOACG/SEACG, ATM/SG APANPIRG/25	Reviewed subsequent to Easter Island being transferred out of the Region; added European trans-regional proposals
14	10 September 2015	SAIOACG/SEACG, ATM/SG APANPIRG/26	Moved Chapter A to the eANP Vol II, Part IV Table ATM II-2

Chapter A: Routes in BANP

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

LOWER ATS ROUTES		
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 HACHUO JIMA (APAC 14/01 ATS)	LUANG PRABANG 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 A218 HARBIN (EKIMCHAN) (MYS SHMIDTA) BARROW A219 KARACHI NAWABSHAM KALAT 2902.0N 06635.0E SERKA 2951.0N 06615.0E KANDAHAR (TERMEZ) A220 CLUKK 3605.0N 12450.0E TAHITI A221 GUAM ROTA IS TINIAN IS SAIPAN A222 GUAM POHNPEI KOSRAE KWAJALEIN A224 JOHOR BAHRU MERSING A325 PRARATAPGARH
A91	(KYAKHTA) SERNA 5018.5N 10628.1E ULAN BATOR	
A201	LASHIO AGARTALA RAJSHAHI MONDA 2521.00N 08626.25E PATNA LUCKNOW	
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	
A204	YOROI 4500.5N 14147.1E RISHIRI AKSUN 4545.1N 14054.3E (SEITI) (4713.3N 14013.3E)	
A206	Proposed by Vietnam and Laos ASSAD VINH NONGT	

	TASOP 2514.1N 07045.0E		A345	PYONGYANG
	KARACHI			GOLOT 4012.5N 12430.5E
	JIWANI			FENGCHENG
A326	SHIGEZHUANG			KAIYUAN
	OKTON 3911.2N 11653.5E			HAILAR
	TIANJIN			KAGAK 4916N 11806E
	MAKNO 3827.6N 12110.0E			MANLI 4935N 11727E
	SANKO 3814.2N 12228.4E			TELOK 4938N 11722E
	DONVO 3734.0N 12320.0E			(CHITA)
	AKARA 3130.0N 12330.0E		A346	HAMILTON IS
				AUCKLAND
A331	ZIGIE 2419.0N 15717.5W		A347	MUMBAI
	SEDAR 4530.4N 12643.0W			BODAR 2236.3N 07413.3E
A332	APACK 2402.8N 15619.3W			PRATAPGAPH
	AMITY 2626.0N 15229.0W			DELHI
	HEMLO 4318.2N 12640.8W		A348	MELBOURNE
A334	HAT YAI			EAST SALE
	KOTA BHARU			NISEP 4146.6S 15601.5E
A337	ADKAK 3354.0N 14210.0E		A364	SHACHE
	TEGOD 2100.0N 14512.0E			KASHI
	JUNIE 1132.5N 14706.3E			KURUM 4006.0N 07407.0E
	KISME 0500.0N 14805.4E		A450	DENPASSAR
A338	CHRISTCHURCH			HASSANUDDIN
	APORO 5000.0S 17120.0E			CAHYO 033000N 1333000E
	BYRD			YAP IS
A339	PERTH			GUAM
	CURTIN			WAKE
	ELBIS 0905.9S 12743.7E			KATHS 2104.6N 16123.4W
	SHREE 0539.0N 13109.2E		A453	(KANDAHAR)
	KEITH 2100.0N 13456.8E			(ZAHEDAN)
	SABGU 2529.9N 13459.3E			(BANDER ABBAS)
	MAKDA 2716.0N 13551.2E		A454	KARACHI
	TAXON 3000.0N 13714.5E			PARET 2527.2N 06451.5E
	YOSHI			TAPDO 2424.0N 06120.0E
	(APAC 14/01 ATS)			(VUSET)
A340	RAYONG		A455	PESHAWAR
	BISOR 1221.0N 10247.0E			METAR 3406.0N 07128.0E
	PHNOM PENH			KOTAL 3406.0N 07109.0E
A341	KOTA KINABALU		A456	AMRITSAR
	SANDAKAN			LAHORE
	ZAMBOANGA			MOLTA 3012.0N 07236.2E
A342	COLD BAY			BINDO
	OLCOT 5125.8N 16533.3E		A457	HAT YAI
A344	ROZAX 0245.6S 11140.0E			TAMOS 0632.2N 10024.0E
	SUMBAWA			

	ALOR SETAR				SANAM	3305.0N 07003.0E
	PENANG				DERA ISMAIL KHAN	
	KUALA LUMPUR				JHANG	3116.0N 07218.0E
	JOHOR BAHRU				SAMAR	3120.8N 07434.0E
A460	KUQA				ASARI	3048.3N 07509.6E
	REVKI	4232.5N 8013.2E			DELHI	
	(KIRBALTABAY)			A467	BIRATNAGAR	
A461	DAWANGZHUANG				KATIHAR	
	WEIXIAN				KOLKATA	
	ZHOUKOU			A468	KUQA	
	HEKOU				KAMUD	4134.0N 07850.0E
	LONGKOU			A469	HO CHI MINH	
	LILING				CONSON IS	
	YINGDE			A470	HONG KONG	
	SHILONG				MAGOG	2217.3N 11549.4E
	BEKOL	2232.6N 11408.0E			SHANTOU	
	CHEUNGCHAU				XINGLIN	
	NOMAN	2000.0N 11640.3E			FUZHOU	
	MUMOT	1930.4N 11714.5E			YUNHE	
	AVMUP	1843.3N 11808.3E			TONGLU	
	SAN FERNANDO				HANGZHOU	
	CABANATUAN				LISHUI	
	MANILA				BANTA	
	SAN JOSE				PIXIAN	
	ZAMBOANGA			A472	KOTAL	3406.0N 07109.0E
	AMBON				METAR	3406.0N 07128.0E
	DARWIN				BAREV	3406.0N 07135.0E
	ALICE SPRINGS				PESHAWAR	
	LEIGH CREEK			A474	DELHI	
A462	KOLKATA				ASOVO	
	DHAKA				MUMBAI	
A464	CHIANG MAI				MURUS	0600.0S 06319.7E
	BANGKOK				(PLAISANCE)	
	HAT YAI			A575	PYONGYANG	
	IPOH				GOLOT	4012.5N 12430.5E
	BATU ARANG				FENGCHENG	
	KUALA LUMPUR				DONGYANGJIAO	
	SINGAPORE				DAHUSHAN	
	TINDAL				CHAOYANG	
	TAROOM				ANDIN	4106.0N 11843.5E
	LORD HOWE IS				GUBEIKOU	
	AUCKLAND				FENGNING	
A465	KOLKATA				EREN	
	VISHAKAPATNAM				INTIK	4341.5N 11155.0E
	CHENNAI				SAINSHAND	
	COLOMBO				ULAN BATOR	
A466	(KABUL)					

	(KYZYL)				
A576	MEDAN				IBOBI 1354.4N 11832.6E
	SINGAPORE				REKEL 1324.1N 11848.3E
	DENPASAR				LEGED 1301.9N 11859.6E
	CURTIN				TOKON 1142.0N 11940.3E
	ALICE SPRINGS				ZAMBOANGA
	PARKES			A584	TONGA
	SYDNEY				NIUE
A577	SHIKANG				APIA
	KADET 2100.0N 11934.0E				FUNAFUTI
					NAURU
A578	TONIK 3200.0N 14600.0E			A585	PALEMBANG
	PHONPEI				JAKARTA
	NAURU				PORT HEDLAND
	TARAWA				CEDUNA
	NADI				ADELAIDE
	AUCKLAND			A586	INTOS 3722.00N 13120.00E
A579	SYDNEY				PUSAN
	NADI				CHEJU
	CARRP 1904.4N 15935.0W				ERABU
					NAHA
A580	AUCKLAND			A587	SUMBAWA
	NAUSORI				ALICE SPRINGS
	APIA			A588	DALIAN
A581	BAGO				WAFANGDIAN
	CHIANG MAI				WANGBINGOU
	CHIANG RAI				KAIYUAN
	PONUUK 2018.8N 10023.0E				CHANGCHUN
	SAGAG 2111.5N 10137.4E				HARBIN
	BIDRU				SIMLI 5017.4N 12722.1E
	KUNMING			A589	DELHI
	MAGUOHE				BUTOP 2919.7N 07523.9E
	QIANXI				ASARI 3048.3N 07509.5E
	HUAYUAN			A590	JOMALIG
	LINLI				MINAMI DAITO
	WUHAN				YOSHI 3310.2N 13857.4E
A582	JOMALIG				OYAMA
	NAHA				KAGIS 3549.0N 14234.0E
	KAGOSHIMA				PABBA 3700.0N 14400.0E
	IKISHIMA				PASRO 1417.1N 16040.5E
	BUSAN				AMOTT 6054.0N 15121.6W
	SEOUL				(APAC 14/01 — ATS)
A583	HONG KONG			A591	QINDAO
	SABNO 1859.1N 11550.7E				XUEJIADAO
	MAVRA 1814.4N 11615.1E				LATUX 3532.0N 12044.0E
	AKOTA 1706.6N 11651.6E				MUDAL 3651.0N 12322.0E

	AGAVO	3710.0N	12400.0E		NANXIONG		
A592	PUPIS	1000.0S	17105.5W		GANZHOU		
	APIA				NANFENG		
	VAVA'U				SHANGRAO		
	TONGA				TONGLU		
A593	TANGHEKOU				NANXUN		
	XILIUHETUN				SHANGHAI		
	SHIGEZHUANG			A791	(IMLOT)		
	POTOU				JIWANI		
	PIXIAN				KARACHI		
	WUXI				PRATAGARH		
	SHANGHAI				BHOPAL		
	NANHUI				JAMSHEDPUR		
	FUKUE				KOLKATA		
A595	FUKUOKA			B200	ENKIP	3547.0S	17730.0E
	IKISHIMA				FICKY	3133.6N	12123.5W
	CHEJU			B202	UBON		
A596	HUAIROU				PAKSE		
	HUAILAI				PLEIKU		
	TIANZHEN			B203	KATHMANDU		
	LIANGCHENG				BAGDOGRA		
	BAOTOU				GUWAHATI		
	DENGKOU				SILCHAR		
	YABRAI				IMPHAL		
A597	KUSHIMOTO				LASHIO		
	MONPI	2100.0N	14036.0E	B204	GOMES	1324.0N	10135.3E
	GUAM				SIEM REAP		
	HONIARA			B205	RAYONG		
	NOUMEA				BOKAK	1257.5N	10230.0E
	AUCKLAND				SIEM REAP		
A598	BRISBANE			B206	URUMQI		
	HONIARA				FUKANG		
	NAURU				ALTAY		
	MAJURO				GOPTO	4905.5N	08728.0E
A599	CHITTAGONG				(AKTASH)		
	LINSO	2322.5N	09855.0E	B209	JAMSHEDPUR		
	GENGMA				KHAJURAHO		
	KUNMING				TIGER	2828.8N	07214.9E
	LUXI			B210	TASOP	2513.3N	07048.9E
	BOSE				NAWABSHAH		
	LAIBIN			B211	MUMBAI		
	GAOYAO				EPKOS	1653.1N	07407.2E
	PINGZHOU				CHENNAI		
	ZHULIAO			B213	LHASA		
	WONGYUAN						

	CHENGDU		
B214	NASAN		
	LADON	2106.2N	10258.0E
	AKSAG	2049.1N	10027.3E
B215	DAWANGZHUANG		
	TAIYUAN		
	YINCHUAN		
	YABRAI		
	JIUQUAN		
	HAMI		
	FUKANG		
	URUMQI		
	KUQA		
	SHACHE		
	HONGQILAPU		
	PURPA	3656.5N	07524.5E
	GILGIT		
	ISLAMABAD		
B218	KUNMING		
	SIMAO	2243.1N	16058.2E
	SAGAG	2111.5N	10137.4E
	VIENTIANE		
	LOEI		
	CHUM PHAE		
B219	PENANG		
	KOTA BHARU		
B220	BRISBANE		
	PORT MORESBY		
B221	NINAS	3100.0N	12215.0E
	PINOT	3125.2N	12214.2E
	SAGUT	3500.0N	12040.3E
	XUEJIADAQ		
B222	VINIK	0838.6N	11613.8E
	KOTA KINABALU		
B223	(DABUR	5147.1N	14235.9E)
	LUMIN	4545.0N	14150.3E
	WAKKANAI		
B326	HONIARA		
	CHOKO	2022.6N	16053.0W
B328	EREN		
	TAMURTAI		
	TIANZHEN		
	NANCHENGZI		
	WEIXIAN		
B329	PHNOM PENH		
	PAKSE		
	LEBAL	1630.2N	10556.7E
	VILAO	1722.0N	10605.0E
B330	HONG KONG		
	TAMOT		
	PINGZHOU		
	GAOYAO		
	DOUJIANG		
	QUIANXI		
	FUJIACHANG		
	JINGTAI		
	YABRAI		
	MORIT	4202.0N	10249.0E
	NIDOR	5029.4N	09125.8E
	(LIKAR)		
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
B333	AUCKLAND		
	PORT MORESBY		
B334	BEIJIN		
	TANGHEKOU		
	FENGNING		
	TONGLIAO		
B337	(TAKHTOYAMSK)		
	ANIMO	4508.3N	14337.8E
	ASAHIKAWA		
B338	MERSING		
	TEKONG		
	ANITO	0017.0S	10452.0E
B339	ULAN BATOR		
	POLHO	4447.0N	11315.0E
	FENGNING		
B345	KATHMANDU		
	BHARATPUR		
	BHAIRAHAWA		
	LUCKNOW		

B346	LUANG PRABANG NOBER 1516.6N 10040.1E BANGKOK		OKINAWA
B349	BALI POTIP 2141.6S 12508.0E		B463 BAGO MANDALAY LASHIO
B450	SYDNEY LORD HOWE IS NORFORK IS PAGO PAGO		B465 KOLKATA CHITTAGONG MANDALAY LUANG PRABANG HANOI
B451	HAILAR QIQIHAR HARBIN BISUN 4314.0N 13111.8E (VLADIVOSTOK) IGROD 4139.0N 13647.0E KADBO 3914.0N 13745.0E		B466 JOHOR BAHRU BATU ARANG CHENNAI MUMBAI
B452	TONIK 3200.0N 14600.0E HONIARA NADI		B467 KANGWON INTOS 3722.0N 13120.0E KANSU 3838.0N 13228.5E NULAR 4059.2N 13411.0E (TEKUK) 4241.0N 13527.4E
B453	MIDDLETON IS KATCH 5400.0N 13600.0W DAASH 4226.5N 12600.1W		B468 DIENBIEN LADON 2106.2N 10258.0E LUANG PRABANG
B454	PAGO PAGO RAROTONGA TONYS 3019.9N 12249.2W		B469 SINGAPORE JAKARTA CARNARVON GERALDTON PERTH CAIGUNA WHYALLA GRIFFITH SYDNEY
B455	VAVA'U NISEX 1547.3S 17136.4W		B470 SINGAPORE PANGKALPINANG JAKARTA
B456	WEWAK JAYAPURA		B472 LIPA ILO ILO COTABATO SELSO 0400.0N 12616.0E TOREX 0724.0N 13335.0E GOVE NORMANTON
B459	MUMBAI CLAVA 0134.0N 06000.0E (PRASLIN)		B473 LIPA ROXAS CAGAYAN DE ORO DAVAO SADAN 0400.0N 12805.0E
B460	KHORAT SAVANNAKET		
B462	MACKAY HAMILTON IS. PORT MORESBY KADAB 0458.0S 14100.0E BIDOR 0400.0S 13130.0E TACLOBAN MANILA CABANATUAN LAOAG MIYAKO JIMA		

	CAIRNS				
B474	SYDNEY				
	SANTO				
	NANUMEA				
	CHOKO	2022.6N	16053.0W		
B480	(RAZDOLITE)				
	LETBI	5011.9N	10330.6E		
	BULGAN				
	MORIT	4202.0N	10249.0E		
B575	AUCKLAND				
	TONGA				
	PAGO PAGO				
B576	TAIBEI				
	CHEJU				
	SEOUL				
B577	NADI				
	WALLIS IS				
	APIA				
	PAGO PAGO				
	FICKY	3133.5N	12123.5W		
B578	BRISBANE				
	NOUMEA				
	TAHITI				
B579	PHUKET				
	LANGKAWI				
	PENANG				
B580	SYDNEY				
	NOUMEA				
	CHOKO	2022.6N	16053.0W		
B581	NADI				
	FICKY	3133.5N	12123.5W		
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				
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				
B589	PORT MORESBY				
	KAPKI	1014.9S	14817.7E		
	BUKA				
	MAJURO				
B590	NOUMEA				
	PORT VILA				
	NAURU				
B591	SHANGHAI				
	TAIBEI				
	HENCHUN				
	(Partially implemented)				
B592	KOTA KINABALU				
	JAKARTA				
B593	KOLKATA				
	COMILLA				
	AGARTALA				
	GUWAHATI				
B595	TAHITI				
	KONA				
B596	RAROTONGA				
	DOVRR	1843.0N	15740.0W		
B597	ERABU				
	TANEGASHIMA				
	SHIMIZU				
B598	DARWIN				
	THURSDAY ISLAND				
	PORT MORESBY				
	KAPKI	1014.9S	14817.7E		
	HONIARA				
	PORT VILA				
	NADI				
	NAUSORI				
	TONGA				
	RAROTONGA				
B599	NOUMEA				

	NADI				HARBIN
	TAHITI				TONGLIAO
B757	KATCH	5400.0N	13600.0W		GUBEIKOU
	CAPE NEWENHAM				QINBAIKOU
	NULUK	5822.9N	17706.1W		NANCHENGZI
B932	BAMOK	5625.5N	17249.3E		TAIYUAN
	(NETRI	4739.3N	15000.0E)		YIJUN
	ODERI	4439.0N	14515.2E		SANYUAN
	MEMANBETSU				XIAOYANZHUANG
G200	CHRISTMAS IS.				NINGSHAN
	COCOS IS				WUFENGXI
	(PLAISANCE)				FUJIACHANG
G202	(KANDAHAR)				WEINING
	ZHOB				MAGUOHE
	RAHIM YAR KHAN				KUNMING
G203	MIHO			G213	BIAK
	PUSAN				BEKUB 0350.0N 13845.0E
G204	ELNEX				GUAM
	SHENGXIAN			G214	JIWANI
	METAN				PANJGUR
	SHANGHAI				RAHIM YAR KHAN
G205	HAMILTON IS.				MOLTA 3012.0N 07236.2E
	GURNEY			G215	DUTCH HARBOR
	JUNIE				OLCOT 5125.8N 16533.3E
G206	DILARAM			G216	(DORAB)
	KABUL				ALPOR 2404.7N 06120.0E
	SABAR				LATEM 2431.7N 06449.7E
	PURPA				KARACHI
G208	MUMBAI			G218	HOHHOT
	PARTY 2414.6N 07052.0E				TUMURTAI
	KARACHI				POLHO 4447.0N 11315.0E
	PANJGUR				SOLOK 4954.0N 11545.0E
	(ZAHEDAN)			G219	VIRUT 0230.8N 10402.7E
G209	LAERMONTH				TEKONG
	CHRISTMAS ISLAND			G221	PHUCAT
	PALEMBANG				BUNTA 1650.0N 10923.7E
G210	PANJGUR				BAOLONG
	KARACHI				HAIKOU
	MUMBAI				SAMAS
G212	(KHABAROVSK)				SIKOU
	ARGUK 4753.5N 13439.4E			G222	SAPDA
	HAIQING				BROOME
	JIAMUSI				AYERS ROCK
					PARKES
				G223	TATEYAMA

	TONIK 3200.0N 14600.0E		PATNA
	NAURU		
	NADI	G336	DHANBAD
	NAUSORI		PATNA
	NIUE		SIMRA
	AITUTAKI		KATHMANDU
	TAHITI	G337	PERTH
	(LIMA)		CHRISTMAS IS
			PEKANBARU
G224	NORFORK IS	G338	CHOIBALSAN
	NADI		KAGAK
	PAGO PAGO	G339	PUSAN
	TAHITI		FUKUOKA
	ISLA DE PASCUA		KAGOSHIMA
	(SANTIAGO)		TANEGASHIMA
G325	COLOMBO		PAKDO
	TIRUCHCHIRAPPALLI		GUAM
G326	BALI	G340	QINGBAIKOU
	TENNANT CREEK		HUAILAI
	BRISBANE	G341	CHANGCHUN
G327	NANHUI		WANGQING
	NINAS 3100.0N 12215.0E	G342	CAIRNS
	AKARA 3130.0N 12330.0E		HONIARA
G329	BRISBANE	G344	COMFE 3624.0N 14618.0E
	NORFORK IS		CUTEE 4624.9N 16218.6E
G330	SHANGHAI		CUDDA 5647.9N 16018.1W
	POMOK	G345	UNTAN
	NANTONG		CHANGZHOU
	GURNI 3209.2N 12058.5E		LISHUI
	PIMOL 3215.0N 11944.0E	G346	KIMCHAEK
G331	PHUKET		NULAR 4059.2N 13411.0E
	PADET		IGROD 4139.0N 13647.0E
	DAWEI	G347	AUCKLAND
G332	TANGHEKOU		POPIR 2500.0S 17804.8W
	CHAOYANG		PADDI 1825.7N 15854.8W
G333	DELHI	G348	PARO
	ESDEM		BAGDOGRA
	TIGER 2828.8N 07214.9E		MECHI
G334	KUALA LUMPUR		KATHMANDU
	TIOMAM	G424	(DAR ES SALAAM)
	BUNTO 0242.0N 10600.0E		VUTAS 0912.0N 06000.0E
	DOTAS 0201.1N 10820.5E		ALATO 1340.7N 06344.0E
	SIBU	G450	(MOGADISHU)
G335	KATHMANDU		
	JANAKPUR		

	MUMBAI				PERTH
	NAGPUR				G465 (PRASLIN)
	KOLKATA				MALE
G451	AHMEDBAD				COLOMBO
	SASRO	2404.3N	07100.0E		G466 HO CHI MINH
	PARTY	2414.6N	07052.0E		PHUCAT
G452	(ZAHEDAN)				HENGCHUN
	RAHIM YAR KHAN				G467 LUBANG
	TIGER	2828.8N	07214.9E		JOMALIG
	DELHI				GUAM
G453	KUALA LUMPUR				G468 PENANG
	KOTA BHARU				MEDAN
G454	(PLAISANCE)				G469 PORT HEIDEN
	BOBOD	0600.0S	06941.1E		ST PAUL IS
	PADLA	0446.1N	07800.0E		NYMPH 5324.5N 16814.4E
	COLOMBO				G470 XIANYANG
G455	SHANGHAI				FENGHUO
	PINOT	3125.2N	12214.2E		CHANGWU
	AKARA	3130.0N	12330.0E		JINGNING
G457	DOVRR	1843.0N	15740.0W		JINGTAI
	ELMS	0500.0S	16704.1W		QITAI
	PAGO PAGO				G471 SHILONG
	FAROA	2500.0S	17502.3W		LONGMEN
	DIVSO	3452.3S	17624.5E		GANGZHOU
G458	BANGKOK				G472 KARACHI
	SURAT THANI				AHMEDABAD
	PHUKET				NAGPUR
G459	CAIRNS				BHUBANESHWAR
	TIMIKA				PATHEIN
G460	KUCHING				BAGO
	SIBU				G473 BAGO
	BINTULU				MAKAS 1649.7N 09830.0E
	BRUNEI				PHITSANULOKE
G463	RAJSHAHI				UBON
	DHAKA				G474 BANGKOK
	CHITTAGONG				MENAM 1357.3N 10247.7E
	BAGO				SOURN 1345.5N 10600.0E
	BETNO	1505.8N	09812.7E		ANINA 1359.0N 10725.0E
	BANGKOK				PHUCAT
G464	PONTIANAK				G575 TAHITI
	ROZAX	0245.0S	11140.0E		RANGIROA
	BALI				FICKY 3133.5N 12123.5W
	KARRATHA				G576 CHEER 5310.0N 14000.1W
	BALLIDU				

	SPONJ	4992.0N 13005.1W		G587	TAIBEI	
G578	GURAG	2100.0N 12725.0E			PABSO	2538.0N 12252.0E
	DILIS	1431.0N 12600.0E			BULAN	2704.0N 12400.0E
	TACLOBAN			G588	MOOREN	
	MACTAN				KHOVD	
	ZAMBOANGA				TEBUS	4725.1N 09027.7E
	DENPASAR				TESAN	4701.7N 08947.8E
	PORT HEDLAND				FUKANG	
	PARABURDOOD			G590	SIMRA	
	PERTH				VARANASI	
G579	JAKARTA				KHAJURAH	
	PALEMBANG				BHOPAL	
	SINGAPORE				INDORE	
	JOHOR BAHRU				BODAR	2236.3N 07413.3E
G580	TOMAN	0121.5N 10547.0E		G591	CAIRNS	
	NIMIX	0124.9N 10759.2E			NOUMEA	
	ATETI	0125.7N 10830.1E			NORFORK IS	
	KUCHING				AUCKLAND	
	MIRI			G593	FUNAFUTI	
	BRUNEI				NAUSORI	
G581	HONG KONG				NIUE	
	ELATO	2220.0N 11730.0E			RAROTONGA	
	HENGCHUN			G594	TIAMU	
	MIYAKO JIMA				TAHITI	
	BISIS	2647.0N 12633.0E			RAROTONGA	
	ERABU				AUCKLAND	
	TAPOP	3240.0N 13607.9E			SOLIT	2355.0S 07500.0E
	(APAC 14/01 ATS)				(PLAISANCE)	
G582	PUGER	0324.1N 10017.6E		G595	(TAHITI)	
	BATU ARANG				SYDNEY	
	PEKAN				MABAD	2648.4S 07500.0E
G583	EMMONAK				(PLAISNACE)	
	BESAT	5945.0N 17925.1W		G597	DONVO	3734.0N 12320.0E
	(UST BOLSHERETSK)				AGAVO	3710.0N 12400.0E
	BISIV	4456.3N 14412.3E			SEOUL	
	MONBETSU				KANGNUNG	
G584	KUALA LUMPUR				MIHO	
	PEKAN				OTSU	
	KUCHING				KOWA	
G585	MIHO				OSHIMA	
	POHANG				VENUS	3618.2N 14042.1E
	SEOUL			G598	LUCKNOW	
G586	YINGDE				APIPU	2658.6N 08300.0E
	ERTANG				SIMARU	
				G599	AUCKLAND	

	TAHITI				NAN
R200	PINGZHOU				LUANG PRABANG
	LIANSHENGWEI			R217	NODAN 4025.0N 14500.0E
	BIGRO				SENDAI
	ZHANJIANG				NIIGATA
R201	BANGKOK			R218	DELHI
	UTAPAO				DIPAS 2738.3N 07551.9E
					JAIPUR
R202	PHRAE			R220	DAIGO
	TATEL 1729.1N 098 45.8E				IWAKI
R203	SAPAM 0804.6N 09733.0E				NANAC 3854.2N 14313.9E
	PHUKET				NIPPI 4942.6N 15920.8E
R204	KEITH 2100.0N 13456.5E				NODLE 6117.0N 15200.0W
	KALIN 0000.0N 14200.0E			R221	MERSING
	LIDIT 0918.0S 14220.0E				PULAU TIOMAN
	HORN IS			R222	AVGOK 4336.0N 13815.0E
	CAIRNS				(YEDINKA)
R205	ANARAK			R223	BRUNEI
	BIRJAND				ELANG 0056.0S 11449.5E
R206	PORT HEDLAND			R224	YANJI
	CHRISTMAS IS				VASRO 4227.8N 12944.4E
	JAKARTA				KANSU
R207	VIENTIANE			R325	KATHMANDU
	NAN				JANAKPUR
	CHIANG MAI				DUMKA 2411.0N 08721.3E
	MANDALAY				KOLKATA
R208	KUALA LUMPUR				PHUKET
	KUALA TRENGGANU				HAT YAI
	KANTO 0649.9N 10348.3E				IPOH
R209	TATOX 0857.0N 09702.0E				JOHOR BAHRU
	LANGKAWI			R326	NORFOLK IS
R210	PORT MORESBY				CHRISTCHURCH
	CAIRNS			R327	GISBORNE
R211	KASMI 3601.3N 14040.3E				FAROA
	DAIGO			R328	DANANG
	NIIGATA				HUE
	KADBO 3914.0N 13745.4E				LEBAL 1630.2N 10556.7E
	AVGOK 4336.0N 13815.0E				SAVANNAKHET
	VELTA 4529.0N 13710.0E			R329	KAGLU 1231.2N 07200.0E
R212	(DIEGO GARCIA)				MALE
	GUDUG 0704.6S 07500.0E				GAN
	PIBED 0520.2S 09044.0E				(DIEGO GARCIA)
R215	CHIANG RAI				

R330	SHEMYA POWAL 5024.3N 16530.8E		NANNING
R332	MAJURO BONRIKI AKUMO 0614.9S 17535.5E ROTUMA NADI		R344 KATHMANDU BIRATNAGAR KATHAR RAJSHAHI
R334	RAYONG KOH KONG SIHANOUK PHU QUOC		R345 ROJET BIDEM 142153.57N 1034750.07E SIEM REAP
R335	VINH ALPHA 1832.6N 10319.7E VIENTIANE		R346 TOWNSVILLE PORT MORESBY
R336	ADAK CARTO 4840.5N 16847.0E		R347 NIIGATA SADO EKVIK 3944.7N 13636.5E IGROD 4139.0N 13647.0E (VELTA) 4529.0N 13710.0E
R337	TACLOBAN KOROR		R348 KADAP 0200.0S 08409.6E LATEP 0610.3S 07500.0E (DIEGO GARCIA)
R338	NOME NINNA 5455.7N 17158.8E		R349 LEMOK 1000.0N 10302.2E RASER 1000.0N 10506.0E HO CHI MINH
R339	SIKOU 2050.6N 11130.0E HUGUANG NANNING BOSE		R450 KIETA HONIARA
R340	AMBON WALGETT		R451 ADAK OGDEN 4929.2N 16102.3E
R341	KODIAK NINNA 5455.7N 17158.8E		R452 SONDO 3947.0N 12713.6E HAMUN 3955.1N 12731.1E KIMCHAEK UAMRI 4217.6N 13041.8E (TEKUK) 4241.0N 13527.4E
R342	MANADO BONDA 0200.0N 12451.2E PEDNO 0400.0N 12521.0E GENERAL SANTOS DAVAO		R453 NADI APIA
R343	NANXIANG WUXI LISHUI HEFEI WUHAN LONGKOU LAOLIANGCANG DARONGJIANG LAIBIN		R455 PONTIANAK KUCHING
			R458 MUMBAI EPKOS 1653.0N 07407.2E BELGAUM
			R457 CHENNAI TIRUCHCHIRAPPALLI MADUDAI TRIVANDRUM MALE

R460	DELHI			PINGZHOU	
	ALIGARH			TAMOT	2221.5N 11352.0E
	LUCKNOW				
	VARANASI			R474	GAOYAO
	GAYA				NANNING
	KOLKATA				LONGZHOU
					HANOI
R461	MUMBAI				VIENTIANE
	MABTA	1708.5N 07321.8E			BANGKOK
	BELGAUM			R575	PAPRA
	COIMBATORE				1546.0N 10711.0E
	COLOMBO				KOH KONG
	MEDAN				UPNEP
	KUALA LUMPUR				0942.2N 10029.6E
					SURAT THANI
R462	(SEEB)			R576	DENNS
	DENDA	2442.5N 06054.8E			2222.0N 15353.0W
	JIWANI				DINTY
	KARACHI				3329.0N 12235.0W
	UPAIPUR			R577	EBBER
	DELHI				2143.0N 15309.0W
					ELKEY
R463	APACK	2402.6N 15619.2W			3241.0N 12203.0W
	ALCOA	3750.0N 12550.0W		R578	FITES
					2049.0N 15300.0W
R464	BITTA	2332.0N 15529.0W			FICKY
	BEBOP	3700.0N 12500.0W			3133.5N 12123.5W
R465	CLUTS	2300.0N 15439.0W			(R579 in Chapter 2)
	CLUKK	3605.0N 12450.0W		R580	OATIS
					3800.0N 14345.0E
R467	KUALA LUMPUR				OMOTO
	GUNIP	0429.9N 09931.9E			4859.7N 16000.7E
					AMOTT
R468	BANGKOK				6053.9N 15121.8W
	BOKAK	1257.5N 10230.0E		R581	KOLKATA
	PHNOM PENH				MONDA
	SAPEN	1102.2N 10611.0E			2521.0N 08626.4E
	HO CHI MINH				SIMARA
R469	PEKANBARU			R582	NORFOLK IS
	SINGAPORE				RAROTONGA
R470	VIENTIANE			R583	TAIBEI
	UDON THANI				BISIS
	KHON KAEN				2647.1N 12633.1E
					OKINAWA
R472	KOLKATA				MINAMIDAITO
	RAJSHAH				SABGU
	GUWAHATI				BUNGO
R473	LILING			R584	AVLAS
	NANXIONG				SALVA
	WONGYUANG				2222.7N 13059.7E
	ZHULIAO				KEITH
					2100.0N 13456.48E
					GUAM
					TRUK
					POHNPEI
					KWAJALEIN
					MAJURO
					JOHNSTON IS

	CHOKO	2022.9N 16053.2E		L301	BANGKOK
R585	CITTA	2818.9N 14507.2W			DAWEI
	GATES	3412.7N 12303.9W			VISHAKHAPATNAM
R587	BRISBANE				BUSBO 1914.9N 07807.6E
	PORT VILA				NOBAT 2109.0N 06800.0E
R588	PHUKET				RASKI 2303.5N 06352.0E
	RELIP				(VAXIM 2319.0N 06111.0E)
	PHNOM PENH			L333	KHAJURAHQ
	PLEIKU				JAI PUR
R590	AMBON				TIGER 2828.8N 07214.9E
	COTABATO			L500	(SANTIAGO)
R591	CAPE NEWENHAM				AUCKLAND
	AKISU	4734.3N 16119.3E		L501	(RIO GALLEGOS)
	ABETS	3605.0N 14425.0E			AUCKLAND
R592	BALI			L503	BRISBANE
	ONSLOW				IGEVO 3636.5S 16300.0E
	PERTH				CHRISTCHURCH
R594	LUCKNOW			L504	SINGAPORE
	JALALABAD				MANADO
	DELHI			L505	BUSBO 1914.9N 07807.6E
R595	ANPU				KAMOL 1938.1N 07340.0E
	MIYAKO JIMA				NOBAT 2109.0N 06800.0E
	KEITH	2100.0N 13456.5E		L507	KOLKATA
	GUAM				BAGO
R597	CABANATUAN				BANGKOK
	SARSI	1642.0N 12316.9E		L508	RAROTONGA
	SKATE	1716.7N 12423.0E			CHRISTCHURCH
R598	KOLKATA				MELBOURNE
	RAJSHAH			L509	GAYA
	SAIDPUR				ASARI 3048.3N 07509.5E
	COOCH BEHAR			L510	IBANI 250000N 0764311E
	BOGOP				ELBAB 201333N 0815954E
	PARO				LEKIR 071632N 0965243E
R599	KIETA				GIVAL 070000N 0980000E
	GIZO			L512	INTOS 3722.0N 13120.0E
	HONIARA				NIIGATA
	PORT VILA			L513	PERTH
	WHANGAREI				HOBART
	AUCKLAND				AUCKLAND
	RNAV ROUTES			L515	OBSMOG 1154.1N 09623.5E
					IKULA 1000.0N 09721.2E
					PHUKET

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

L518 HIA 171340.1N0782420.9E
 BBZ 163118.3N0804733.7E
 GOPNU 155112N0820224E
 EGOLU 141858N0844952E
 SADAP 120605.6N0884120.8E

L521 SYDNEY
 AUCKLAND

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

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

L629 PEKAN
 DOLOX 0448.7N 10522.9E

L635 PEKAN
 MABLI 0417.3N 10612.9E

L637 BITOD 0715.3N 10612.9E
 TANSONNHET

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

L643 TANSONNHET
 CONSON

L644 CONSON
 JAKARTA

L645 COLOMBO
 SULTO 0738.6N 08801.9E
 SAMAK 0758.7N 09425.0E
 SAPAM 0804.6N 09733.0E
 PHUKET

L626 KATHUMANDU
 ONISA 2858.1N 08005.5E
 DELHI

L649 BRUNEI
 ISKUD 0536.6N 11452.3E
 URKET 0811.5N 11450.0E
 LAXOR 0949.6N 11458.5E
 (APAC 14/10 ATS)

L756 CLAVA
 MALE

L759 DELHI
 POSIG 2713.0N 07734.9E
 AGRA
 KHAJURAH
 PHUKET

L760 AGRA
 GURTI 2743.8N 07747.8E
 DELHI

L774 (PLAISANCE)
 LELED 116.5S 07500.0E
 ELATI 0200.0S 08957.7E
 KETIV 0042.0S 09200.0E
 MEDAN

L875 VUTAS 091206N 0600004E
 MOXET 110146N 0645024E
 GOLEM 115739N 0672213E
 EGOGI 121100N 0690000E
 GOKUM 122025N 0701005E

	OLNIK	122850N	0711440E		LALIT	1252.4N	09225.1E
	BEDIL	123500N	0715958E	M504	ALPOR	2404.7N	06120.0E
	DOLPI	124641N	0732711E		NODER	2350.0N	06700.0E
	MANGALORE(MML)				TELEM	2402.0N	06846.0E
	PEXEG	130415N	0760230E	M505	BUON MA THUOT		
	BANGALORE (BIA)				MONDULKIRI		
	CHENNAI (MMV)				SIEM RIEP		
L888	BIDRU	22 43.1N	100 57.9E	M510	CAN THO		
	MAKUL	24 03.1N	100 34.6E		PHNOM PENH		
	NIVUX	26 00.0N	100 00.0E	M512	COLOMBO		
	PEXUN	30 55.9N	100 00.0E		ANIVE	0540.9N	07800.0E
	SANLI	32 00.0N	100 00.0E		MALE		
	NOLEP	38 34.5N	088 42.5E	M520	SERNA	5018.5N	10628.1E
	SADAN	40 04.6N	086 00.0E		POLHO	4447.0N	11315.0E
	KUQA	VOR (KCA)		M522	VINIK	0838.5N	11613.8E
L894	KITAL	2003.0N	06018.0E		KOTA KINABALU		
	MALE				MAMOK	0405.1N	11547.2E
	SUNAN	0028.7S	07800.0E		DENPASAR		
	DADAR	0200.0S	07927.1E	M625	MELBOURNE		
	PERTH				WELLINGTON		
L896	SAPDA	1200.0S	11125.6E	M626	KOTA BHARU		
	NISOK	0302.9N	09200.0E		DAWEI		
	DUGOS	0853.1N	08447.9E		BAGO		
	CHENNAI			M635	SINGAPORE		
L897	CHRISTMAS ISLAND				RAMPY	0615.0	11320.8E
	KETIV	0042.0S	09200.0E		CURTIN		
	COLOMBO			M638	DOSTI	2558.0N	06503.0E
L899	HANIMAADHOO				KARACHI		
	TRIVANDRUM				MINAR	2350.0N	06800.0E
M300	(EMURU	2215.6N	05849.8E)		SAPNA	2330.0N	06750.0E
	LOTAV	2037.0N	06057.0E		NOBAT	2109.0N	06800.0E
	CALICUT				MUMBAI		
	MADURAI			M639	IGEVO	3636.5S	16300.0E
	SALAX	0212.4N	10133.7E		WELLINGTON		
M501	GUAM			M641	MADURAI		
	LIMLE	1639.7N	13000.0E		BIKOK	0817.0N	07836.0E
	SKATE	1722.2N	12425.6E		COLOMBO		
	LAOAG						
	NOMAN	2000.0N	11640.3E				
M502	BANGKOK						
	AKATO	1337.3N	09910.3E				

	COCOS IS				GUKUM	1356.8N	11637.2E
	PERTH				AKOTA	1706.6N	11651.6E
M643	HOBART			M755	PHNOM PENH		
	CHRISTCHURCH				KISAN	1032.3N	10440.5E
M644	RAYONG				BITOD	0415.4N	10407.1E
	KOTA BHARU			M758	PEKAN		
M646	HENGCHUN				LUSMO	0333.7N	10655.7E
	ABVAR	1924.8N	12037.7E		TERIX	0415.4N	10934.7E
	LAOAG				OLKIT	0450.1N	11149.1E
	SAN FERNANDO				KOTA KINABALU		
	MANILA			M759	OLKIT	0450.1N	11149.1E
	TOKON	1142.0N	11940.5E		BRUNEI		
	PUERTO PRINCESA			M761	PEKAN		
	KINABALU				BOBOB	0222.1N	10706.1E
	BRUNEI				SABIP	0209.7N	10750.5E
	DARMU	0401.7N	11240.6E		AGOBA	0158.7N	10830.0E
	KAMIN	0234.7N	10855.9E		KUCHING		
	SABIP	0209.7N	10750.7E	M766	COLOMBO		
	ESPIT	0200.2N	10726.4E		JAKARTA		
	OBLLOT	0142.9N	10641.8E		INDRAMAYU		
	TOMAN	0121.8N	10547.3E		MADIN	0617.9S	11023.0E
	(APAC 14/12 ATS)				CUCUT	0617.7S	11106.0E
M750	KILOG	2152.5N	11441.6E		SURABAYA		
	ENVAR	2159.5N	11730.0E		BALI		
	MOLKA	2639.5N	12400.0E		DARWIN		
	MOMPA	3050.5N	12955.1E	M765	KOTA BHARU		
	BUNGU	3407.1N	13929.9E		IGARI	0656.2N	10335.2E
	(APAC 14/01 ATS)				BITOD	0715.3N	10407.3E
M751	MERSING				CONSON		
	PEKAN				DAGAG	0927.8N	10826.5E
	KOTA BHARU				MAPNO	1013.1N	11020.1E
	REGOS	1200.0N	10035.1E	M767	JOMALIG		
	BANGKOK				TOKON	1142.0N	11940.3E
M753	ENREP	0452.4N	10414.8E		TENON	0915.3N	11616.5E
	BITOD	0715.3N	10407.3E		TEGID	0857.2N	11551.6E
	PHU QUOC				TODAM	0631.7N	11235.4E
	PHNOM PENH			M768	DARWIN		
M754	BRUNEI				BRUNEI		
	VINIK	0838.6N	11613.8E		DOGOG	0525.3N	11407.5E
	TENON	0915.3N	11616.5E		ASISU	0559.1N	11320.8E
	LULBU	1104.7N	11624.4E		TODAM	0631.6N	11235.6E
	NOBEN	1234.4N	11631.1E		LAGOT	0716.5N	11132.7E
					AKMON	0812.9N	11013.1E
					MOXON	0849.5N	10921.3E
					DAGAG	0927.8N	10826.5E

	TANSONNHAT			N519	MUMBAI
M770	KOTA BHARU				SAPNA 2330.0N 06750.0E
	RANONG				MINAR 2350.0N 06800.0E
	BUBKO 1911.1N 08839.8E				KARACHI
	KAKID 2038.6N 08659.9E			N563	(EMURU 2214.0N 05853.6E)
	JAMSHEDPUR				REXOD 2112.5N 06138.5E
M771	MERSING				BANGALORE
	DOLOX 0448.7N 10522.9E				MEDAN
	DUDIS 0700.0N 10648.6E				SALAX 0212.4N 10133.7E
	DAGAG 0927.8N 10826.5E			N564	DUGOS 0853.1N 08447.9E
	DOXAR 1222.0N 11022.7E				AKMIL 1151.6N 08006.9E
	DAMEL 1358.7N 11130.6E			N571	(RAGMA 2306.0N 06105.7E)
	DONDA 1442.2N 11201.3E				PARAR 2226.5N 06307.0E
	DOSUT 1702.0N 11340.8E				VAMPI 0610.9N 09735.1E
	DULOP 1814.2N 11432.6E				GUNIP 0429.9N 09931.8E
	DUMOL 1900.0N 11426.8E			N628	PEKANBARU
	HONG KONG				BUSUX 0355.0S 06000.0E
M773	BUBKO 1911.1N 08839.8E				(PRASLIN)
	LEGOS 2138.0N 08805.3E			N633	KUALA LUMPUR
	KOLKATA				PEKANBARU
M774	SINGAPORE				POSOD 0329.5S 09409.9E
	KIKEM 0952.9S 12607.4E				PEDPI 1316.6S 07500.0E
M875	KAKID 2038.6N 08659.9E				(PLAISANCE)
	BUTOP 2919.7N 07523.9E			N640	TRIVANDRUM
	GUGAL 3014.5N 07358.0E				BIKOK 0817.0N 07836.0E
	DERA ISMAIL KHAN				COLOMBO
M890	LUCKNOW				LEARMONTH
	CHANDIGARH				MOUNT HOPE
	SAMAR 3120.8N 07434.0 ^E				ADELAIDE
M904	BANGKOK			N645	BRUNEI
	U TAPHAO				ELANG
	DIPUN				005535.64S 1145003.10E
	SIRAT				SURABAYA
	TONIK			N750	SYDNEY
	TIDAR				CHRISTCHURCH
	ODONO			N759	MELBOURNE
	UPRON				AUCKLAND
	ENREP			N774	AUCKLAND
					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
					BOBOB 0222.1N 10706.0E

	ENREP	0452.4N 10414.7E	P501	ARAMA	0136.9N 10307.2E
N877	LAGOG	0835.6N 09159.8E		BOBAG	0102.5N 10329.9E
	VISHAKHAPATNAM			ANITO	0017.0S 10452.0E
	NAGPUR		P518	NOBAT	2109.0N 06800.0E
	PRATAGRAPH			PARET	2527.2N 06451.5E
N884	MERSING			PANJGUR	
	LUSMO	0333.7N 10655.7E	P570	(MIBSI	2341.7N 05755.4E)
	LAGOT	0716.6N 11131.5E		KITAL	2003.0N 06018.0E
	LAXOR	0949.6N 11448.5E		TRIVANDRUM	
	LULBU			KATUNAYAKE	
		110936.07N 1163217.70E		PEKANBARU	
	LEGED		P574	(KUSRA)	
		130113.24N 1190006.94E		TOTOX	2150.5N 06222.5E
	LUBANG			BISET	1823.4N 06918.1E
	CABANATUAN			BELGAUM	
	MIYAKOJIMA			CHENNAI	
N891	PAPA UNIFORM			PUGER	0324.0N 10017.5E
	ENREP	0452.4N 10414.8E	P627	PHUKET	
	IGARI	0656.2N 10335.2E		KADAP	0200.0S 08409.6E
	SAMOG	0800.0N 13014.6E		KALBI	
	RAYONG			(PLAISANCE)	
	BANGKOK		P628	LANGKAWI	
N892	HENGCHUN			PORT BLAIR	
	KABAM	2100.0N 11925.7E		RAHIM YAR KHAN	
	MUMOT	1930.4N 11714.5E	P646	BANGKOK	
	MAVRA	1814.4N 11615.1E		JAMSHEDPUR	
	MIGUG	1516.4N 11400.0E		PATHEIN	
	MESOX	1358.8N 11302.7E		VARANASI	
	MUGAN	1222.0N 11152.3E	P648	KOTA KINABALU	
	MAPNO	1013.1N 11020.1E		JAKARTA	
	MOXON	0849.5N 10921.3E	P751	(ADEN)	
	MELAS	0704.9N 10808.4E		ANGAL	1614N 06000E
	MABLI	0417.3N 10612.9E		MUMBAI	
	MERSING		P756	MALE	
N893	TELEM	2407.0N 06846.0E		MEDAN	
	AHMEDABAD		P761	CHENNAI	
N895	BETNO	1505.8N 09812.7E		PORT BLAIR	
	PATHEIN		P762	DAWEI	
	BHUBANESWAR			PORT BLAIR	
	NAGPUR			COLOMBO	
	BODAR	2236.3N 07413.3E	P880	IGEVO	03636.29S 16300.00E
	AHMEDABAD			SLOPE HILL VOR	
	PARTY	2414.6N 07052.0E			04459.03S 16846.57E
P173	TAPIS	3431.0N 06909.0E			
	DAVET	3657.6N 06447.2E			
	(APAC 14/11 - ATS)				

P901 IKELA 1839.7N 11214.7E
CHEUNG CHAU

UPPER ATS ROUTES

UB467 YEDINKA
VELTA 4529N 13710E
TEKUK 4241N 13527.4E
NULAR 4059.2N 13411E
(KANSU) 3838.0N 13228.5E

UL425 (KUTVI)
ASPUX 1744.00N 06000.00E
DONSA 1434.14N 06511.32E
VANVO 1043.00N 07200.00E

UM551 DONSA 1435.3N 06511.6E
ANGAL 1614.1N 06000.1E
(AVAVO) 1646.3N 05526.1E

Note 1: 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
IND 1	BBS BPL	N2014.6 E08548.8 N2317.0 E07720.2	KOLKATTA MUMBAI	
IND 7	PRA SERKA KAMAR BIRJAND	N2401.8 E07445.0 N2951.0 E06615.0 N3239.0 E06044.0 N3258.3 E05912.0	MUMBAI DELHI KABUL TEHERAN	N877 Extension
IND 09	TELEM BHU RKT BBB	N2407 E068 46 N2316.5 E06940.0 N2218.8 E07046.7 N1905.2 E072 52.5	MUMBAI	New Entry 1/1/13
IND 10	AAE MORVI RASKI	N2304.1 E07237.7 N2249.0 E07050.0 N2303.5 E06352.0	MUMBAI	New Entry 1/1/13
PAK 01	KC MELOM	N2454.6 E06710.6 N2505.0 E06632.0	KARACHI	New Entry 1/1/13
PAK02	INDEK CHG	N3246.0 E07316.0 N3040.1 E07648.3	LAHORE DELHI	New Entry M890 extension 1/1/13
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 MADAGASCA R	
IND 8	VABB APANO WPT "X"	Details in chart	MUMBAI KARACHI	2 Route Options
HIMALAY A 1	KOLKATA NEPALGUNJ INDEK	2238.7N 08827.2E 2806.1N 08139.1E 3246N 7316E	KOLKATA KATHMANDU LAHORE	Moved from Chapter 4. Route requested by Nepal
HIMALAY A 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	Moved from Chapter 4. Route requested by Nepal
HIMALAY A 3	LELAX QIM FKG	N3223.5 E07737.9 N3809.1 E08532.2 N4410.0 E08759.0	DELHI URUMQI	New Entry 10/1/13

IRAN1	a. ALROT- BIRJAND-SOKIR -NH b. ALROT- BIRJAND- SOKIR-GASIR	?	IRAN KABUL PAKISTAN	Requested by IRAN and amended by IATA at SAIAOCG/3 Mtg.
P173	TAPIS – DAVET westbound only		Turkmenistan Afghanistan	RDGE14.02 6 Implementati on date 01 SEP 2014

ATS ROUTE NAME: *IND10*

REQUESTED BY: IATA

Date: 01/01/2013

ENTRY/EXIT POINT
AAE- RASKI

CHART

ROUTE DESCRIPTION
AAE (Ahmadabad) –
MORVI- RASKI



FLIGHT LEVEL BAND
29000 – 46000

PRIORITY:
HIGH/MED/LOW
HIGH

Action Required	IATA
	ICAO

Saving	Per flight	Annual potential
Mileage / Time	80 nm / 9min	
Fuel	765 Kg	8,800 Ton
CO ₂	2409 kg	27,700 Ton
No _x		
SO ₂		

Remarks: Facilitates From / To Ahmadabad Middle East and overflying traffic between Far East Asia to Middle East.

Potential City Pairs: AMD, DAC, HKG, PVG, BJS / Middle East

ATS ROUTE NAME: COL 1

REQUESTED BY: IATA

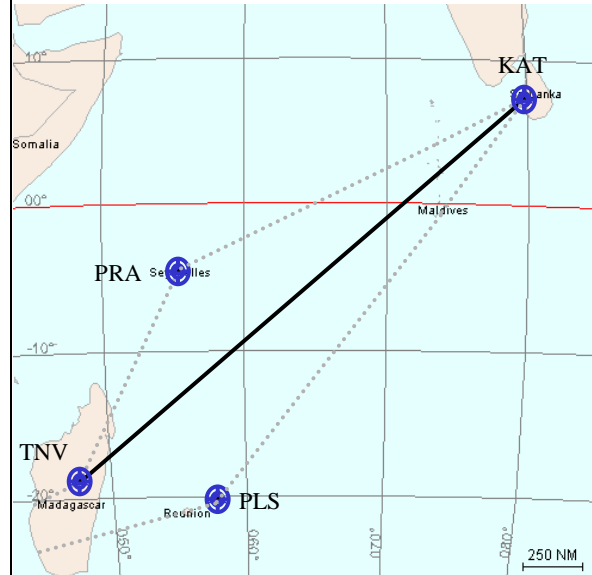
ENTRY/EXIT POINT
KAT / TNV

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: This proposal supports traffic between THA/HKG/ South China and Southern Africa. A proposal already exists to establish a User Preferred Route (UPR) geographic area which will support the same traffic flow however this proposal needs to be retained in the short term.

Potential City Pairs:

ATS ROUTE NAME: *Himalaya 3*

REQUESTED BY: IATA

Date: 10 January 2013

<p>ENTRY/EXIT POINT LELAX-QIM-FKG (Or LELAX-QIM-POSOT-FKG)</p> <p>Connecting to FKG-TAI-GOPTO-LANBI</p> <p>ROUTE DESCRIPTION LELAX direct to QIM over the Himalaya to support a new route from India into China connecting to Russia onwards polar / trans polar gateways.</p> <p>FLIGHT LEVEL BAND:</p> <p>PRIORITY: HIGH</p>	<p style="text-align: center;">CHART</p>
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Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	257NM / 23 mins	
Fuel	3500 kgs	1,265 Ton
CO ₂	11 Tons	4,000 Ton
No _x		

Remarks: New 787 aircraft equipped with more than the standard cabin oxygen supply capable of operating at higher altitude longer in the event of depressurization over the Himalayas.

Potential City Pairs: India -North America

ATS ROUTE NAME: IRAN 1

Requested by : Iran

ENTRY/EXIT POINT
XXXXX

ROUTE DESCRIPTION

- a. ALROT-BIRJAND-SOKIR -NH
- b. ALROT-BIRJAND-SOKIR-GASIR

FLIGHT LEVEL BAND

PRIORITY: HIGH/MED/LOW



CHART

Action Required

States to coordinate implementation.

Benefit

Cost

Fuel Saving

Emission

CO₂

NO_x

Remarks: Requested by IRAN and amended by IATA at SAIOACG /3 meeting.

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>
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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)

ATS ROUTES	SIGNIFICANT PTS	COORDINATES	FIR	REMARKS
SEA 2	DANANG SYX	N1603.2 E10811.9 N1818.4 E10910.4	HOCHIMINH SANYA	
SEA 6	PAKSE ASSAD	N1511.8 E10544.5 N1820.5 E10740.9	VIENTIANE ASSAD	
SEA 10	LENKO QUNGI SAMUI	N1507.0 E10848.0 N0932.8 E10003.7	SANYA HOCHIMINH PNOMPENH BANGKOK	New chart provided by IATA QUNGI- LENKO
SEA 12	ROT HUGUANG	N1607.0 E10346.7 N2107.9 E11020.2	HOCHIMINH GUANGZHOU	
SCS1	DAMEL CH	N1358.7 E11136.4 N2213.2 E11401.8	HOCHIMINH HONGKONG	
SCS 2	VEPAM CH	N1358.0 E11000.0 N2213.2 E11401.8	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 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 ENVAR DULOP KAPLI	N1814.2E11432.6 N2220.0 E11730.0 N2159.5 E11730.0 N1814.2E11432.6 N2110.0 E11730.0	HONGKONG HONGKONG HONGKONG HONGKONG HONGKONG	EITHER DULOP/ KAPLI G86, OR DULOP/ ELATO& ENVAR
Unnamed	NOIBAI KUNMING	2112.8N 10550.1E 2501.0N 10244.0E	HANOI KUNMING	Moved from Chapter 4. Route Requested by Vietnam
Unnamed	NOIBAI CATBI SAMAS OR HUGUANG	2112.8N 10550.1E 2049.1N 10642.5E 2030.3N 11029.7E 2107.9N 11020.2	HANOI HANOI GUANGZHOU/ SANYA GUANGZHOU	Moved from Chapter 4. Route Requested by Vietnam

SCS10	PHUCAT ASISU		HO CHI MINH SINGAPORE KOTA KINABALU	
PHI 5	ENDAX VJN		MANILA	
SEA 5	STUNG TRENG DANANG	N1331.5 E10600.9 N1603.2 E10811.9	PNOMPENH HOCHIMINH	Moved from Chapter 5 part A
SCS9	TOKON DILIS TOKON ENDAX	N1142.0 E11940.5 N1431.1 E12600.1 N1142.0 E11940.5 N1415.0 E13000.0	MANILA MANILA MANILA MANILA	Moved from Chapter 5 part A

ATS ROUTE NAME: SEA2

REQUESTED BY: IATA

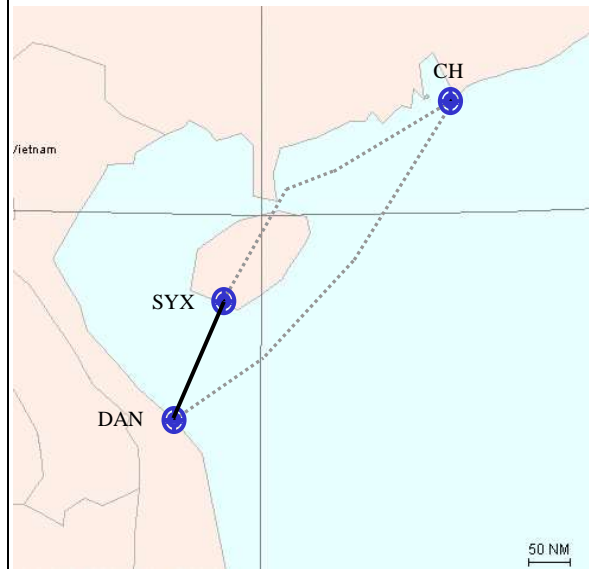
ENTRY/EXIT POINT
DAN / XXXXX / SYX

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: Supports traffic Southeast Asia – Hainan Island and possible alternative routing for the Pearl River Delta area.

Potential City Pairs: South East Asia - Hainan

ATS ROUTE NAME: SEA 6

REQUESTED BY: IATA

ENTRY/EXIT POINT
PAKSE - ASSAD

ROUTE DESCRIPTION

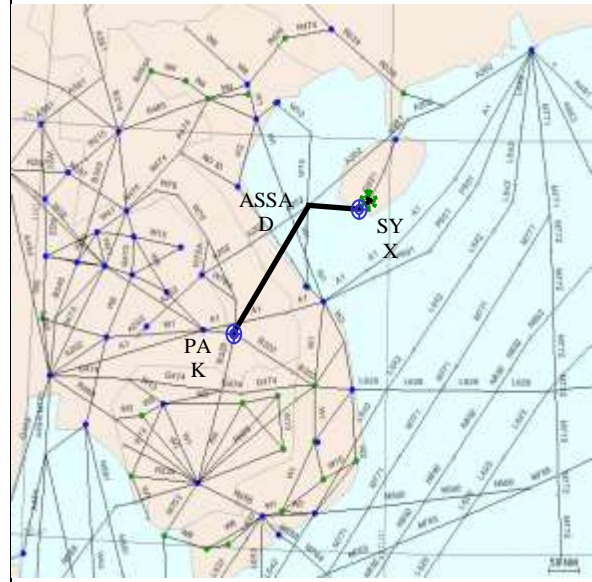
Direct PAKSE to ASSAD
FLIGHT LEVEL BAND

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: Supports traffic Southeast Asia – the Perl River Delta area/South China.

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

ATS ROUTE NAME: SEA 10 Alternative route proposed from QUNGI to LENKO by IATA at SEACG/20 mtg

REQUESTED BY: IATA

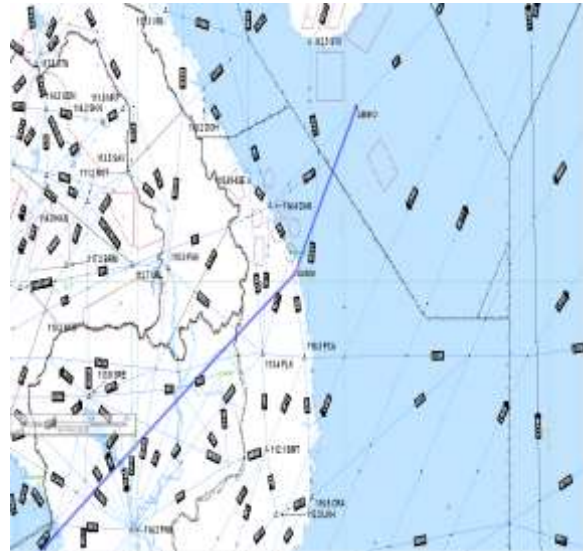
ENTRY/EXIT POINT
XXXXX

ROUTE DESCRIPTION
CAVOI and IGNIS LENKO ..
Quanggai/QUNGI .. 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: Supports traffic from Northeast Asia to Phuket and beyond. Will require linkages to/from QUNGI as original proposed points CAVOI and IGNIS no longer exist. **IATA propose to link QUNGI to LENKO**

Potential City Pairs: Colombo/ Phuket - Pearl River Delta

ATS ROUTE NAME: SEA 12

REQUESTED BY: IATA

ENTRY/EXIT POINT
ROT - HUGUANG

ROUTE DESCRIPTION

Direct ROT - HUGUANG

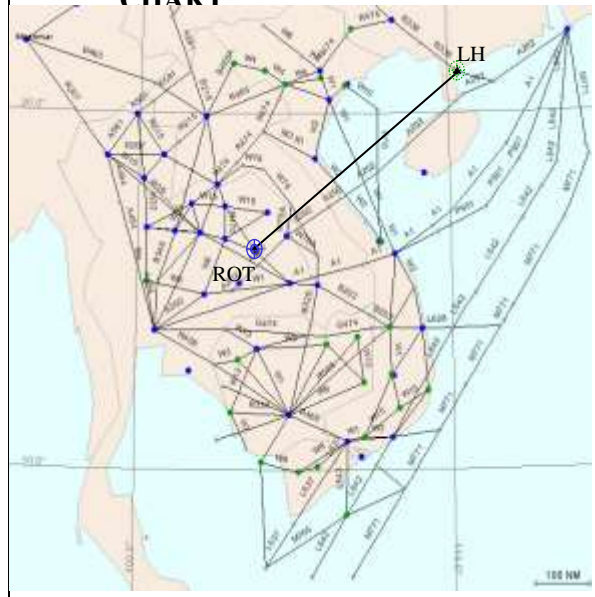
FLIGHT LEVEL BAND

29000 - 46000

PRIORITY: HIGH/MED/LOW

HIGH

CHART



Action Required	IATA
	ICAO

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

Remarks: Provide parallel to the A202 route similar to proposal for uni-directional routes proposed through Southeast Asia Route Review Task Force.

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

ATS ROUTE NAME: SCS1

REQUESTED BY: IATA

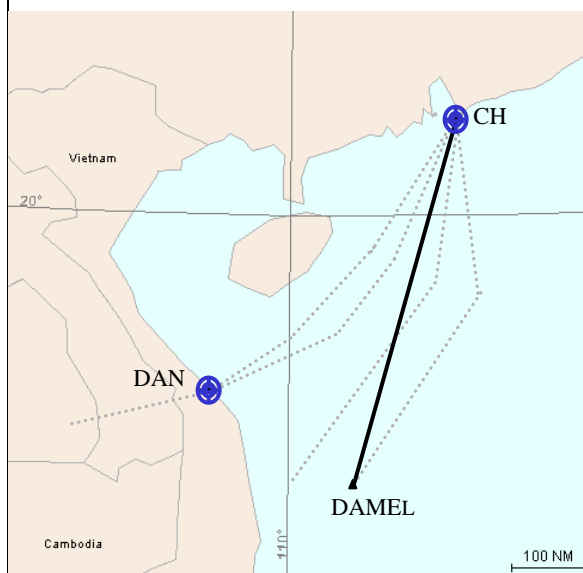
ENTRY/EXIT POINT
DAMEL / CH

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: Proposed route shortening for M771 into the Pearl River Delta area. Similar proposals have been made through Southeast Asia Route Review Task Force. During SEACG/19 in WP09 Hong Kong China advised they had studied the proposal for track shortening and advised the proposed change would reduce capacity of A1/P901. It would also require an extensive change in the flight route system and ATC sectors in Hong Kong FIR. However Hong Kong, China would continue to study this proposal for the implementation of RNP4/2. . (**IATA – 5/02/2013- Remains as high priority in view of the savings impact for many airlines**)

Potential City Pairs: Singapore-Pearl River Delta Airports

ATS ROUTE NAME: SCS2

REQUESTED BY: IATA

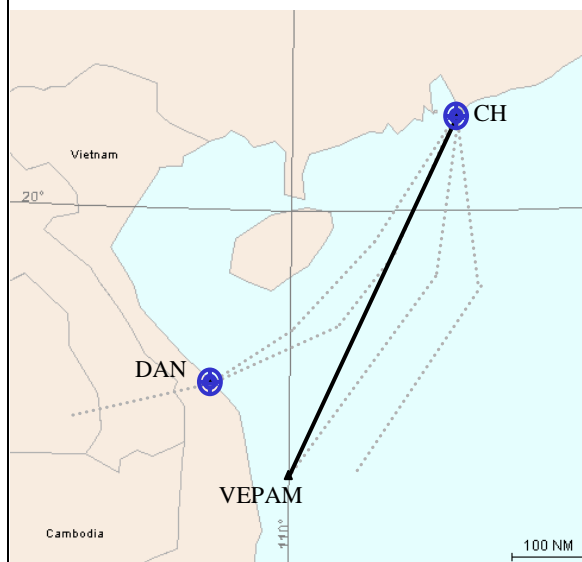
ENTRY/EXIT POINT
CH / VEPAM

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: Proposed route shortening for L642 out of the Pearl River Delta area. Similar proposals have been made through Southeast Asia Route Review Task Force. During SEACG/19 in WP09 Hong Kong China advised they had studied the proposal for track shortening and advised the proposed change would reduce capacity of A1/P901. It would also require an extensive change in the flight route system and ATC sectors in Hong Kong FIR. However Hong Kong, China would continue to study this proposal for the implementation of RNP4/2 ...(**IATA - 5/01/2013 - Remains as high priority in view of the savings impact for many airlines**)

Potential City Pairs: Singapore-Pearl River Delta Airports

ATS ROUTE NAME: SCS4

REQUESTED BY: IATA

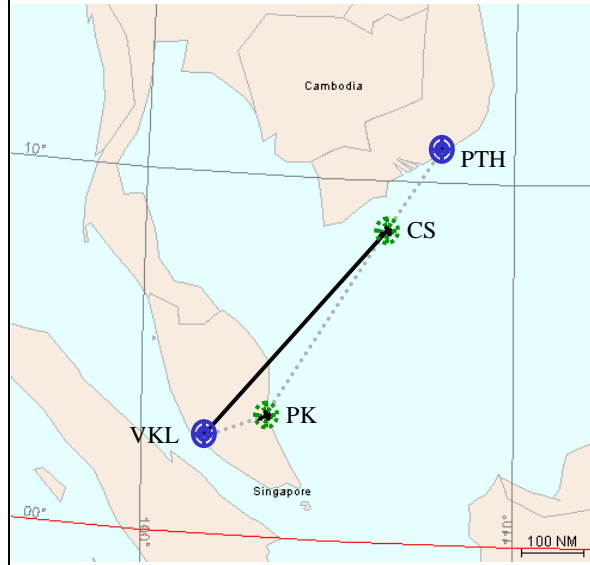
ENTRY/EXIT POINT
CS / VKL

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: Supports traffic to and from Kula Lupur from and to the northeast.

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: Need to be considered in conjunction with developments with L642/M771 and possibly South China Sea ADS-B project.

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: Supports traffic from Perth, eastern Malaysia and eastern Indonesia to the Perl River Delta area, China. Segment DULOP and LAXOR exists as M772.

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 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 style="text-align: center;">CHART</p>
---	---

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: Supports traffic Northeast Asia/Southeast Asia. Potentially problematic as will impact South China Sea’s traffic arrangements. IATA to review. During SEACG/19 in WP09 Hong Kong China advised they had studied the proposal for track shortening and advised that allowing flights to proceed from M771 DUMOL to ELATO/ENVAR/KAPLI will likely create a bottle neck at these points and result in flights not getting optimum levels or increase ground delay to departures from Hong Kong and Macao to East Asia. However Hong Kong, China would continue to study this proposal.

Potential City Pairs: SEAsia-North Asia Airports

ATS ROUTE NAME:

Requested by : Vietnam

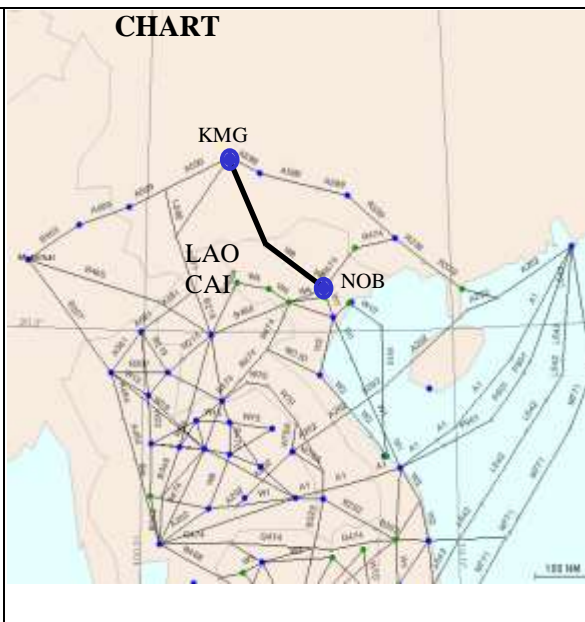
ENTRY/EXIT POINT
XXXXX

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: Because of small traffic demand and cost/benefit considerations, this route is impossible and can not be implemented at present.

ATS ROUTE NAME:

Requested by : Vietnam

**ENTRY/EXIT POINT
XXXXX**

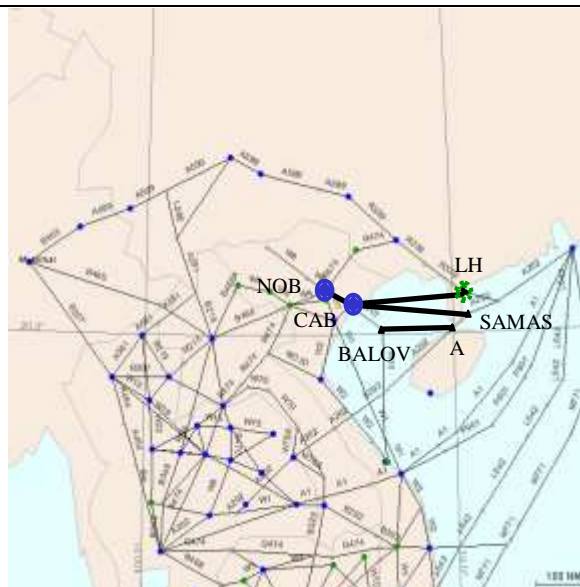
ROUTE DESCRIPTION

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



Action Required	States to coordinate to submit proposal for deletion of the requirement. ICAO to circulate proposal for deletion from BANP.
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Benefit		
Cost		
Fuel Saving		
Emission	CO ₂	
	NO _x	

Remarks: Because of small traffic demand and cost/benefit considerations, this route is impossible and can not be implemented at present.

Appendix 3

ATS ROUTE NAME: SCS 10 (Propose Route designator R321)		
REQUESTED BY: IATA	Date: 25 June 2012	(ATM/AIS/SAR/SG-22)

<p>ENTRY/EXIT POINT Phu CAT (PCA) - ASISU</p> <p>ROUTE DESCRIPTION PCA to ASISU</p> <p>FLIGHT LEVEL BAND</p> <p>PRIORITY: HIGH (VN commencing SGN-SYD service in October 2012) Plan for 3 flights per week.... Potential for other airlines to use?</p>	<p style="text-align: center;">CHART</p>
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Action Required	IATA
	ICAO

Existing 692.9
New PCA-ASISU = 541.6

Saving	Per flight	Annual
Mileage / Time	151nm / 22 mins	
Fuel	1827kg	kg
CO ₂	5664kg	kg
No _x		

Remarks

Potential City Pairs: SGN-SYD, any others

Appendix 2

ATS ROUTE NAME: PHI 05 (Propose Route ENDAX-VJN)

REQUESTED BY: IATA

Date: 25 June 2012

(ATM/AIS/SAR/SG-22)

ENTRY/EXIT POINT
ENDAX-VJN

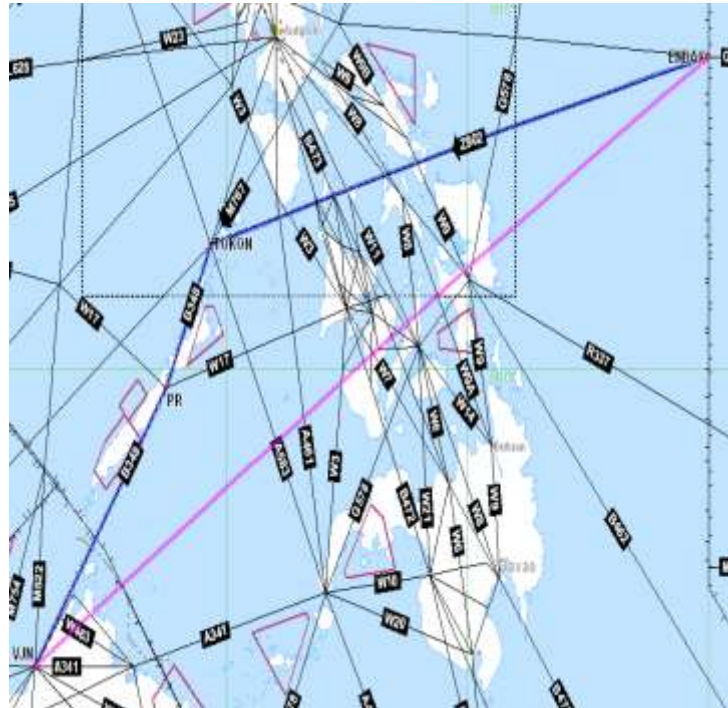
ROUTE DESCRIPTION

FLIGHT LEVEL BAND

PRIORITY:
High/Medium/Low

ENDAX-VJN 964.5NM
ENDAX-TOKON-PR-VNJ
1033.7NM

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	69.2nm / 8.65 mins	
Fuel	836kg	kg
CO ₂	2592kg	kg
No _x		

Remarks

Potential City Pairs:

ATS ROUTE NAME: SEA 5
REQUESTED BY: IATA

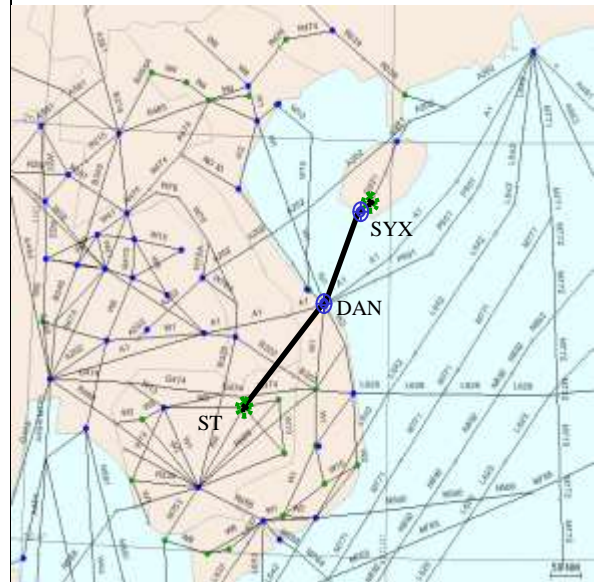
ENTRY/EXIT POINT
 STUNG TRENG (ST) – DANANG (DAN)

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: Supports traffic Southeast Asia – Hainan Island. Link with SEA2.

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

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 style="text-align: center;">CHART</p>
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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 this route has already been implemented as domestic route Z902, except that it is not a domestic route. It should be a regional route but has not been entered into the BANP and consultation with Oakland is unclear.

Potential City Pairs: SEA –San Francisco/Los Angeles

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	

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

ATS ROUTE NAME: PHI 1
REQUESTED BY: IATA

<p>ENTRY/EXIT POINT</p> <p>ROUTE DESCRIPTION Manila (MIA) .. MEVIN or Cabanatuan (CAB) .. MEVIN</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	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

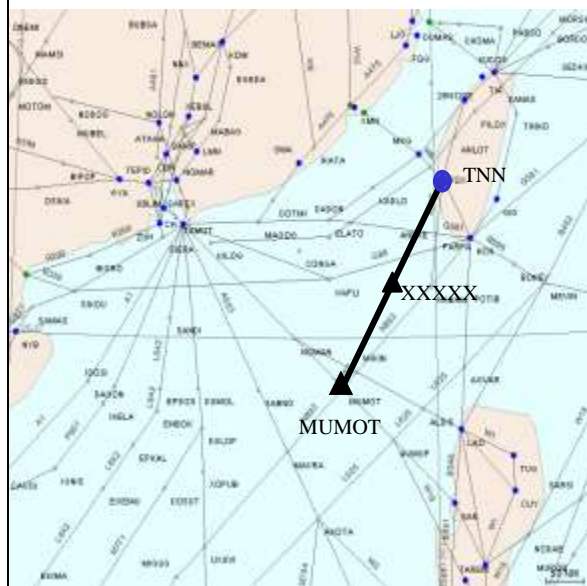
FLIGHT LEVEL BAND

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

<p>ENTRY/EXIT POINT XXXXX</p> <p>ROUTE DESCRIPTION AKOTA... XXXXX ... Hengchun (HCN)</p> <p>FLIGHT LEVEL BAND 29000 - 46000</p> <p>PRIORITY: HIGH/MED/LOW HIGH</p>	<p style="text-align: center;">CHART</p>
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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>CHART</p>
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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

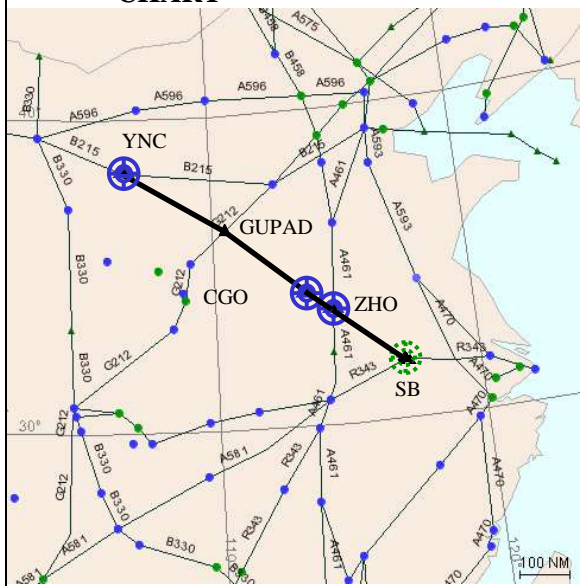
ENTRY/EXIT POINT

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>
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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>
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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

<p>ENTRY/EXIT POINT</p> <p>ROUTE DESCRIPTION MORIT .. Ningshan (NSH) .. Pingzhou (POU)</p> <p>FLIGHT LEVEL BAND 8400 – 15000 meters</p> <p>PRIORITY: HIGH/MED/LOW</p>	<p style="text-align: center;">CHART</p>
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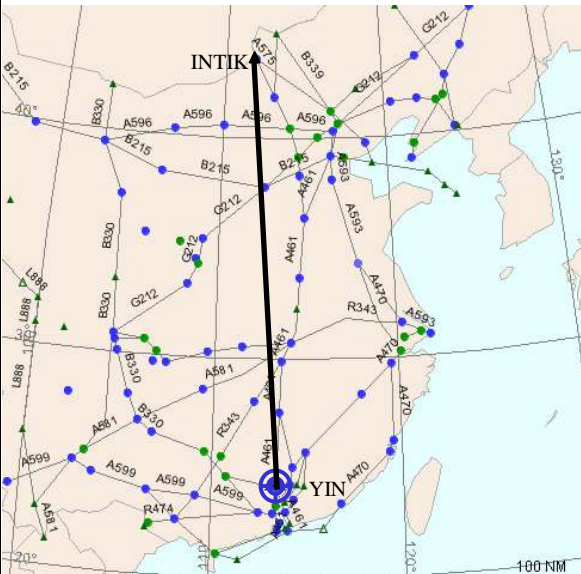
Action Required	IATA
	ICAO

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

<p>ATS ROUTE NAME: CHA 5 (Renumbered from CHA 11A)</p> <p>REQUESTED BY: IATA</p>
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<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> 
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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>
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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>
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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

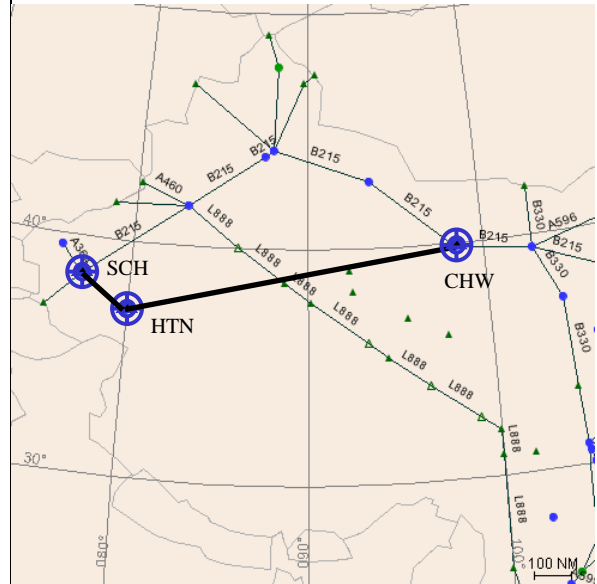
Shache (SCH) .. Hotan (HTN) .. Jiayuguan (CHW)

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

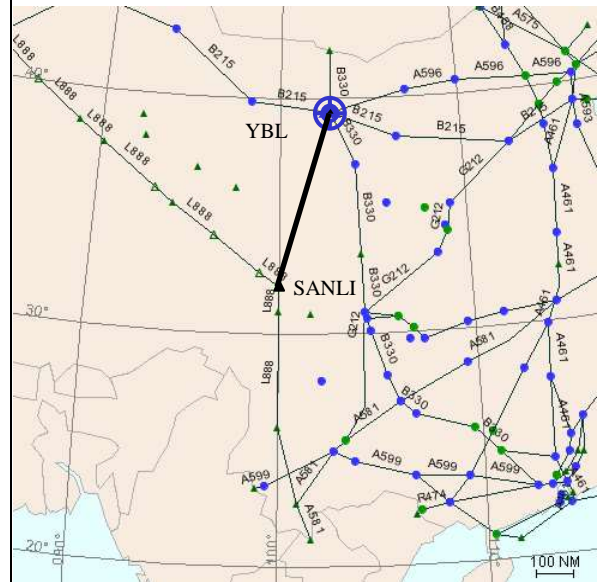
ENTRY/EXIT POINT

ROUTE DESCRIPTION
Yabrai (YBL) .. SANLI

FLIGHT LEVEL BAND
8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA.
	ICAO

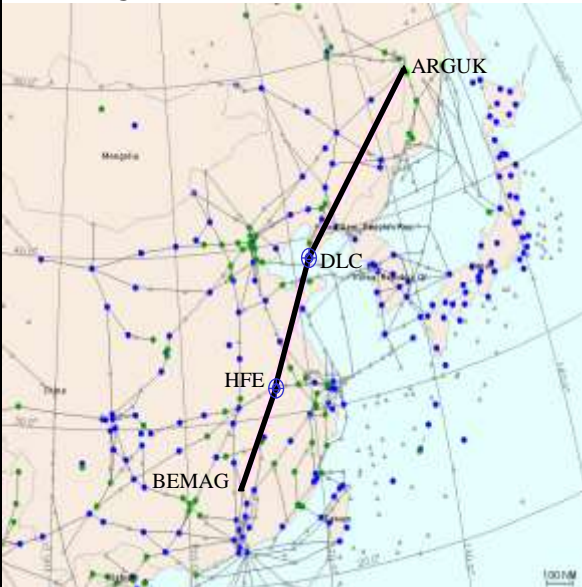
Saving	Per flight	Annual
Mileage / Time	48nm/ 6min	
Fuel	780kg	284,000kg
CO ₂	2,400kg	876,000kg
No _x		

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

<p>ENTRY/EXIT POINT</p> <p>ARGUK/BEMAG</p> <p>ROUTE DESCRIPTION</p> <p>ARGUK/DALIAN/HFEI/BEMAG</p> <p>FLIGHT LEVEL BAND</p> <p>8400-15000 metres</p> <p>PRIORITY: HIGH/MED/LOW</p> <p>HIGH</p>	<p>CHART</p> 
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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

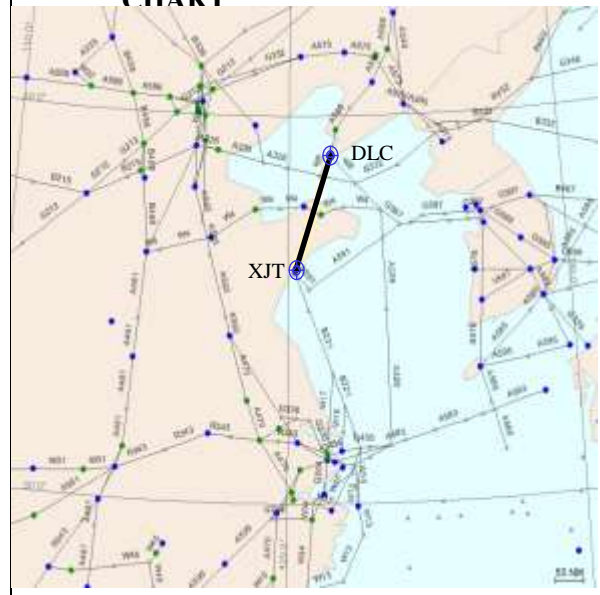
FLIGHT LEVEL BAND

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

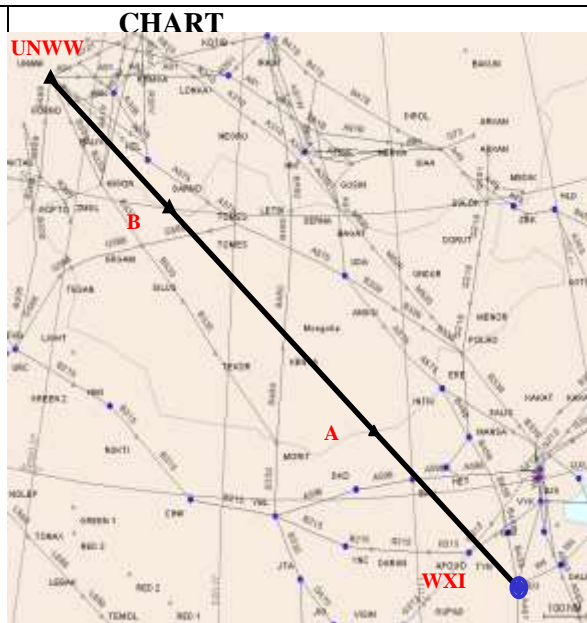
Weixian (WXI) .. A (ZBPE/ZMUB) .. B (ZMUB/UNKY) .. Novokuznetsk (UNWW)

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

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

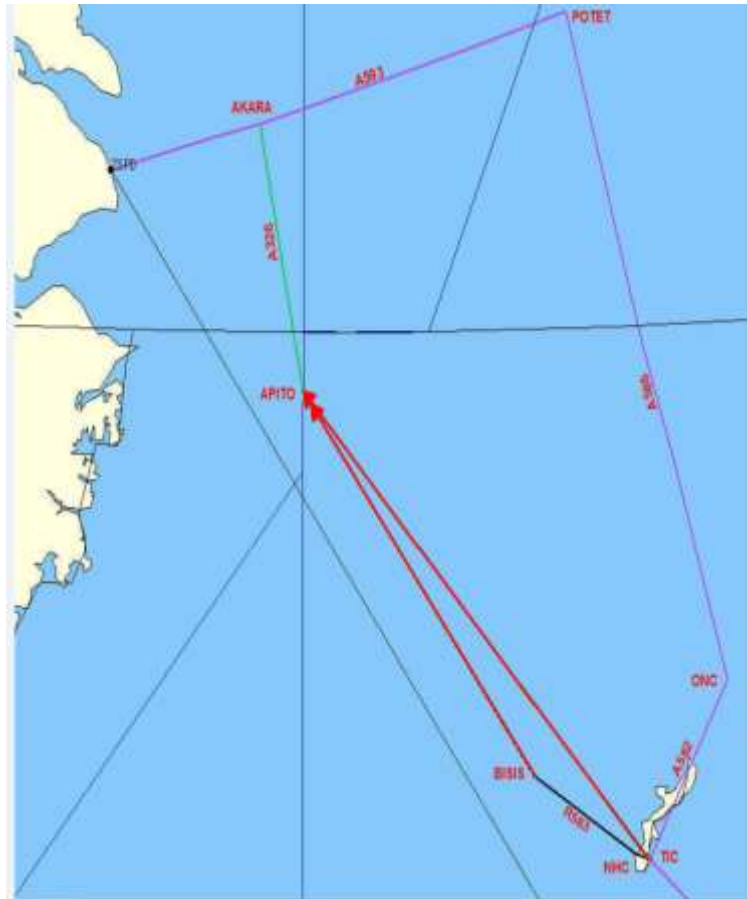
Alternative:

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>
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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>
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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>
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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>
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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>
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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

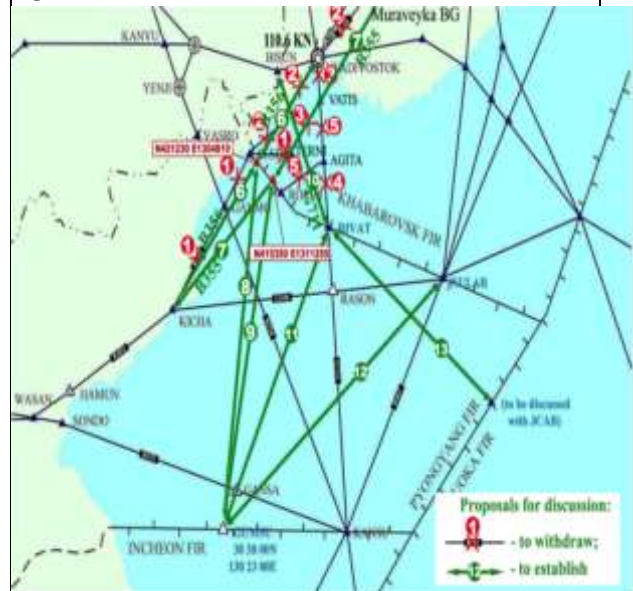
Withdrawal of the ATS route segment
R452:
KICHA (N404103 E1291132) –
SESUR (N421730 E1304130) –
TERNI (N422213 E1314003)

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

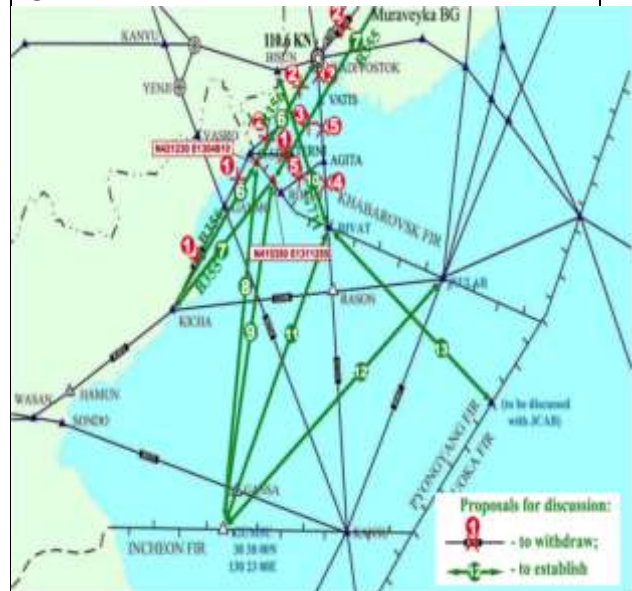
Withdrawal of the ATS route segment
G721:
VATIS (N425143 E1320851) –
AGITA (N421937 E1321151) –
RORIM (N415031 E1311639)

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: FE0052 / RDGE 20.013

Requested by : PRK / RUS

ENTRY/EXIT POINT

ROUTE DESCRIPTION

Implementation of new uni-directional westbound ATS route segment:
new waypoint (N415350 E1311255) – GUMSU (N383800 E1302300)

FLIGHT LEVEL BAND

28000 – 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. 9)

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 EKVİK</p> <p>b. westbound unidirectional traffic via new EKVİK – 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>
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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

<p>ENTRY/EXIT POINT</p> <p>ROUTE DESCRIPTION</p> <p>AVGOK-GTC</p> <p>FLIGHT LEVEL BAND</p> <p>PRIORITY:</p> <p>States concerned</p> <p>JAPAN RUSSIAN FEDERATION</p>	<p style="text-align: center;">CHART</p>
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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

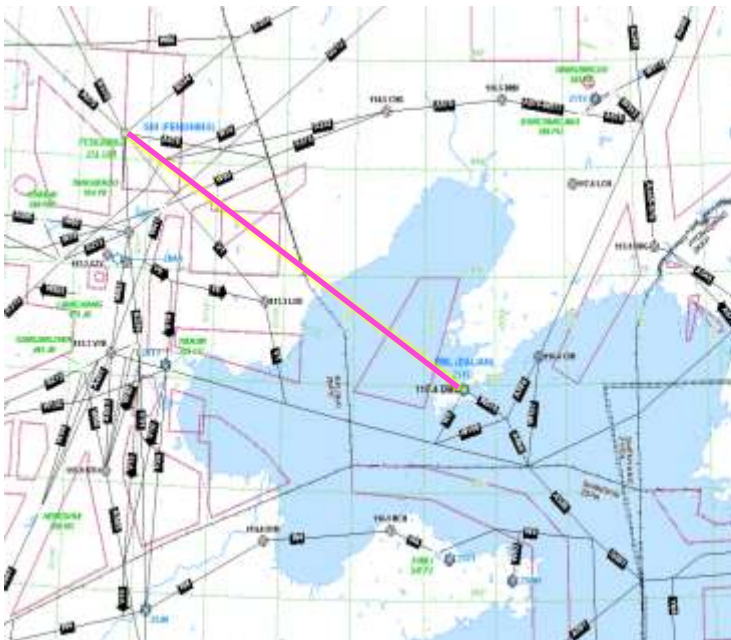
Saving	Per flight	Annual
Mileage / Time		
Fuel		
CO ₂		
No _x		

*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	CHART
<p>ROUTE DESCRIPTION FLIGHT LEVEL BAND GM PIDOX- DBL. PRIORITY:</p> <p>States concerned CHINA</p>	

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

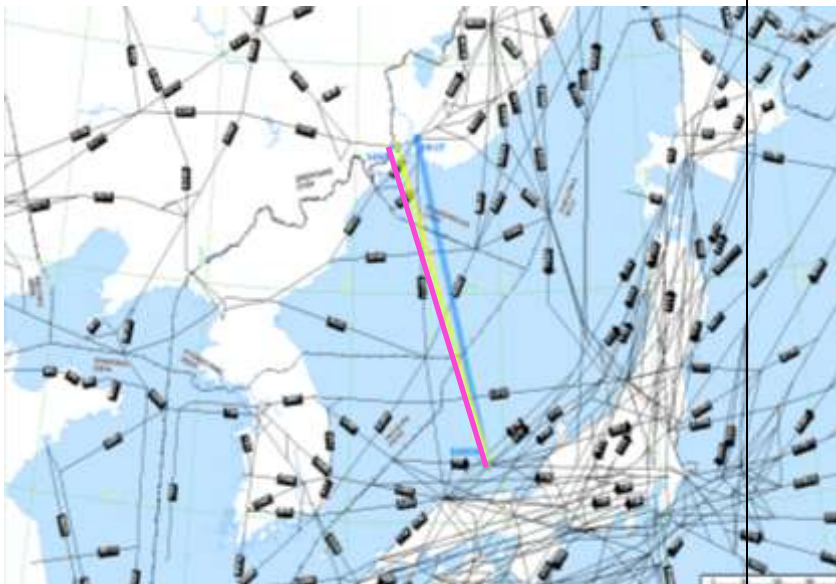
ENTRY/EXIT POINT	CHART
<p>ROUTE DESCRIPTION FLIGHT LEVEL BAND NALEB - SIBIR. PRIORITY:</p> <p>States concerned</p> <p>CHINA RUSSIAN FEDERATION</p>	

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	CHART
<p>ROUTE DESCRIPTION ATS route segment DIKUT or SANAR - SAMON.</p> <p>FLIGHT LEVEL BAND</p> <p>PRIORITY:</p> <p>States concerned</p> <p>JAPAN RUSSIAN FEDERATION DEM. PEOPLE'S REP. OF KOREA</p>	

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

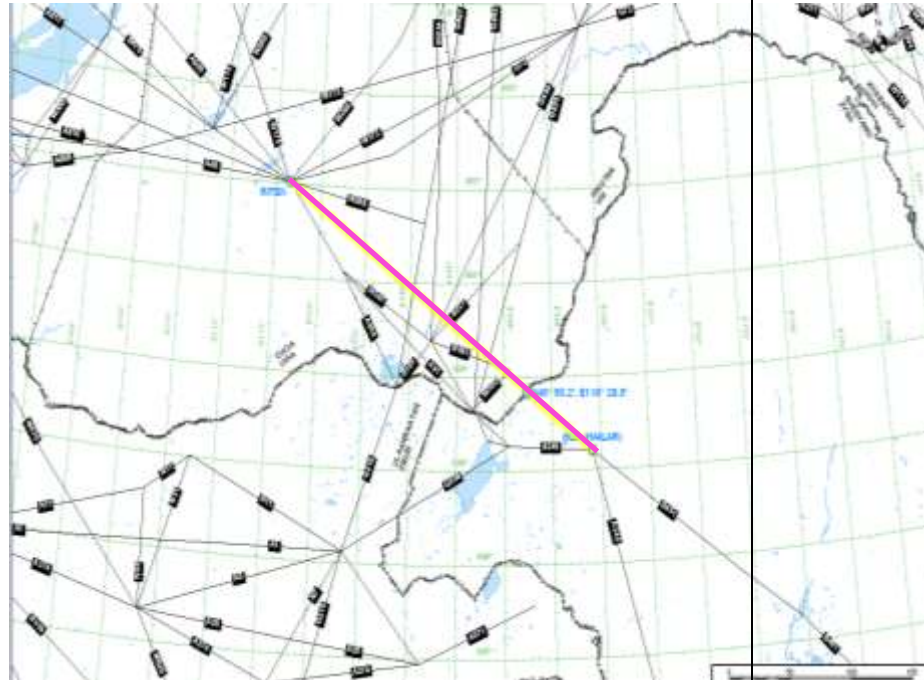
FLIGHT LEVEL BAND

PRIORITY:

States concerned

CHINA
 RUSSIAN FEDERATION

CHART



Action Required	IATA
	ICAO

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

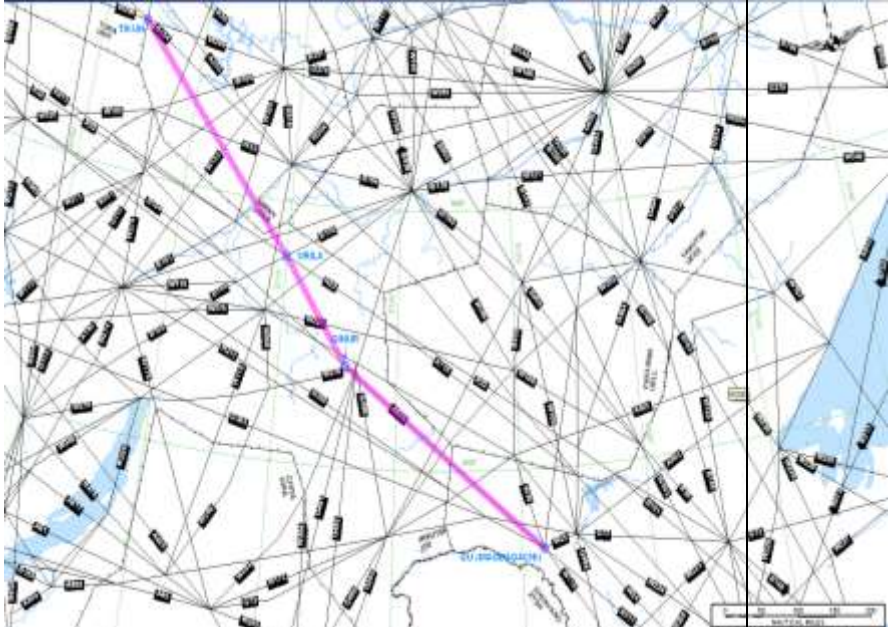
Further studies/coordination required. Updates will be given when available.

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	CHART
<p>ROUTE DESCRIPTION</p> <p>TIKUN - URILA - GINUR - GU.</p> <p>FLIGHT LEVEL BAND</p> <p>PRIORITY:</p> <p>States concerned</p> <p>CHINA RUSSIAN FEDERATION</p>	

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	CHART
<p>ROUTE DESCRIPTION SIMLI - new waypoint 492000N 1270600E - DIKUT.</p> <p>FLIGHT LEVEL BAND</p> <p>PRIORITY:</p> <p>States concerned</p> <p>CHINA RUSSIAN FEDERATION</p>	

Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time		
Fuel		
CO ₂		
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	CHART
<p>ROUTE DESCRIPTION Westbound ATS route LEPNI 435542N 1285030E - new waypoint 493236N</p> <p>FLIGHT LEVEL BAND</p> <p>PRIORITY:</p> <p>States concerned</p> <p>CHINA RUSSIAN FEDERATION</p>	

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)

ATS ROUTES	SIGNIFICANT PTS	COORDINATES	FIR	REMARKS
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	
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	Moved from Chapter 4. Route Requested by Tahiti