

ASIA/PACIFIC REGION ATS ROUTE CATALOGUE



INTERNATIONAL CIVIL AVIATION ORGANIZATION
ASIA/PACIFIC REGIONAL OFFICE

VERSION 12 (SCM Excerpt)

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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.

Chapter A: Routes in BANP

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

LOWER ATS ROUTES		A211	MANADO TARAKAN TAWAU
A1	LIMLA 1546.0N 09836.0E BANGKOK UBON DANANG IKELA 1839.7N 11214.7E CHEUNG CHAU ELATO 2220.0N 11730.0E MAKUNG TAIBEI KAGOSHIMA MIYAKE JIMA	A212	PUPIS PAGO PAGO NIUE
A91	(KYAKHTA) SERNA 5018.5N 10628.1E ULAN BATOR	A215	PORT MORESBY MERAUKE HASANUDDIN KEVOK 0425.0S 11500.0E
A201	LASHIO AGARTALA RAJSHAHI MONDA 2521.00N 08626.25E PATNA LUCKNOW	A216	COOKTOWN AKMIP 1200.0S 14448.6E KIKORI GUNNY 0500.00N 14400.00E RICHH 1711.49N 14249.12E
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	A218	HARBIN (EKIMCHAN) (MYS SHMIDTA) BARROW
A204	YOROI 4500.5N 14147.1E RISHIRI AKSUN 4545.1N 14054.3E (SELTI) (4713.3N 14013.3E)	A219	KARACHI NAWABSHAM KALAT 2902.0N 06635.0E SERKA 2951.0N 06615.0E KANDAHAR (TERMEZ)
A206	Proposed by Vietnam and Laos ASSAD VINH NONGT LUANG PRABANG	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 TASOP 2514.1N 07045.0E KARACHI

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

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

A576	MEDAN SINGAPORE DENPASAR CURTIN ALICE SPRINGS PARKES SYDNEY		TOKON 1142.0N 11940.3E ZAMBOANGA
		A584	TONGA NIUE APIA FUNAFUTI NAURU
A577	SHIKANG KADET 2100.0N 11934.0E	A585	PALEMBANG JAKARTA PORT HEDLAND CEDUNA ADELAIDE
A578	TONIK 3200.0N 14600.0E PHONPEI NAURU TARAWA NADI AUCKLAND		INTOS 3722.00N 13120.00E PUSAN CHEJU
A579	SYDNEY NADI CARRP 1904.4N 15935.0W		ERABU NAHA
A580	AUCKLAND NAUSORI APIA	A587	SUMBAWA ALICE SPRINGS
A581	BAGO CHIANG MAI CHIANG RAI PONUK 2018.8N 10023.0E SAGAG 2111.5N 10137.4E BIDRU KUNMING MAGOUE QIANXI HUAYUAN LINLI WUHAN	A588	DALIAN WAFANGDIAN WANGBINGOU KAIYUAN CHANGCHUN HARBIN SIMLI 5017.4N 12722.1E
		A589	DELHI BUTOP 2919.7N 07523.9E ASARI 3048.3N 07509.5E
A582	JOMALIG CHINEN KAGOSHIMA IKISHIMA PUSAN SEOUL	A590	MANILA JOMALIG MINAMI DAITO MIYAKEJIMA
			KAGIS 3549.0N 14234.0E PABBA 3700.0N 14400.0E PASRO 1417.1N 16040.5E (AMOTT) 6054.0N 15121.6W
A583	HONG KONG SABNO 1859.1N 11550.7E MAVRA 1814.4N 11615.1E AKOTA 1706.6N 11651.6E IBOBI 1354.4N 11832.6E REKEL 1324.1N 11848.3E LEGED 1301.9N 11859.6E	A591	QINDAO XUEJIADAOD LATUX 3532.0N 12044.0E MUDAL 3651.0N 12322.0E AGAVO 3710.0N 12400.0E
		A592	PUPIS 1000.0S 17105.5W APIA VAVA'U

	TONGA		SHANGHAI
A593	TANGHEKOU XILIUHETUN SHIGEZHUANG POTOU PIXIAN WUXI SHANGHAI NANHUI FUKUE	A791	(IMLOT) JIWANI KARACHI PRATAGARH BHOPAL JAMSHEDPUR KOLKATA
		B200	ENKIP 3547.0S 17730.0E FICKY 3133.6N 12123.5W
A595	FUKUOKA IKISHIMA CHEJU	B202	UBON PAKSE PLEIKU
A596	HUAIROU HUAILAI TIANZHEN LIANGCHENG BAOTOU DENGKOU YABRAI	B203	KATHMANDU BAGDOGRA GUWAHATI SILCHAR IMPHAL LASHIO
A597	GOBOH KUSHIMOTO MONPI 2100.0N 14036.0E GUAM NOUMEA AUCKLAND	B204 B205	GOMES 1324.0N 10135.3E SIEM REAP RAYONG BOKAK 1257.5N 10230.0E SIEM REAP
A598	BRISBANE HONIARA NAURU MAJURO	B206	URUMQI FUKANG ALTAY GOPTO 4905.5N 08728.0E (AKTASH)
A599	CHITTAGONG LINSO 2322.5N 09855.0E GENGMA KUNMING LUXI BOSE LAIBIN GAOYAO PINGZHOU ZHULIAO WONGYUAN NANXIONG GANZHOU NANFENG SHANGRAO TONGLU NANXUN	B209 B210 B211 B213 B214 B215	JAMSHEDPUR KHAJURAHO TIGER 2828.8N 07214.9E TASOP 2513.3N 07048.9E NAWABSHAH MUMBAI EPKOS 1653.1N 07407.2E CHENNAI LHASA CHENGDU NASAN LADON 2106.2N 10258.0E AKSAG 2049.1N 10027.3E DAWANGZHUANG

	TAIYUAN YINCHUAN YABRAI JIUQUAN HAMI FUKANG URUMQI KUQA SHACHE HONGQILAPU PURPA 3656.5N 07524.5E GILGIT ISLAMABAD		TAMOT PINGZHOU GAOYAO DOUJIANG QUIANXI FUJIACHANG JINGTAI YABRAI MORIT 4202.0N 10249.0E NIDOR 5029.4N 09125.8E (LIKAR)
B218	KUNMING SIMAO 2243.1N 16058.2E SAGAG 2111.5N 10137.4E VIENTIANE LOEI CHUM PHAE	B331	CHEUNG CHAU KAPLI 2110.0N 11730.0E HENGCHUN
B219	PENANG KOTA BHARU	B332	SANKO 3814.2N 12228.4E TOMUK 3843.0N 12400.0E PYONGYANG SINSONGCHON SONDO 3947.0N 12713.6E KANSU 3838.0N 13228.5E
B220	BRISBANE PORT MORESBY	B333	AUCKLAND PORT MORESBY
B221	NINAS 3100.0N 12215.0E PINOT 3125.2N 12214.2E SAGUT 3500.0N 12040.3E XUEJIADAO	B334	BEIJIN TANGHEKOU FENGNING TONGLIAO
B222	VINIK 0838.6N 11613.8E KOTA KINABALU	B337	(TAKHTOYAMSK) ANIMO 4508.3N 14337.8E ASAHIKAWA
B223	(DABUR 5147.1N 14235.9E) LUMIN 4545.0N 14150.3E WAKKANAI	B338	MERSING TEKONG ANITO 0017.0S 10452.0E
B326	HONIARA CHOKO 2022.6N 16053.0W	B339	ULAN BATOR POLHO 4447.0N 11315.0E FENGNING
B328	EREN TAMURTAI TIANZHEN NANCHENGZI WEIXIAN	B345	KATHMANDU BHARATPUR BHAIRAHAWA LUCKNOW
B329	PHNOM PENH PAKSE VILAO 1722.0N 10605.0E NAM HA 2023.2N 10607.1E	B346	LUANG PRABANG NOBER 1516.6N 10040.1E BANGKOK
B330	HONG KONG	B348	HENGCHUN POTIB 2100.0N 12045.5E

	LAOAG SAN FERNANDO MANILA TOKON 1142.0N 11940.3E PUERTOPRINCESA OSANU 0741.4N 11717.6E KOTA KINABALU BRUNEI KAMIN 0235.1N 10855.7E SABIP 0209.7N 10750.5E TOMAN 0121.5N 10547.0E		POR T MORESBY KADAB 0458.0S 14100.0E BIDOR 0400.0S 13130.0E TACLOBAN MANILA CABANATUAN LAOAG MIYAKO JIMA OKINAWA
B349	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
B455	VAVA'U NISEX 1547.3S 17136.4W		GRIFFITH SYDNEY
B456	WEWAK JAYAPURA		
B459	MUMBIAI CLAVA 0134.0N 06000.0E (PRASLIN)	B470	SINGAPORE PANGKALPINANG JAKARTA
B460	KHORAT SAVANNAKET	B472	LIPA ILO ILO COTABATO
B462	MACKAY HAMILTON IS.		SELSO 0400.0N 12616.0E

	TOREX GOVE NORMANTON	0724.0N 13335.0E	B586	KOTA KINABALU NOUMEA SEKMO KAPKI PORT MORESBY GUAM OMLET 2100.0N 14259.2E TATEYAMA
B473	LIPA ROXAS CAGAYAN-DE-ORO DAVAO SADAN	0400.0N 12805.0E		
B474	CAIRNS		B587	ST GEORGE KOWANYAMA OPABA 0851.5S 13804.0E TIMIKA BIAK
B480	SYDNEY SANTO NANUMEA CHOKO 2022.6N 16053.0W			RENAN 0330.0N 13416.6E ENDAX 1415.0N 13000.0E ATVIP 2100.0N 12422.0E HUALIEN
B575	(RAZDOLITE) LETBI 5011.9N 10330.6E BULGAN MORIT 4202.0N 10249.0E		B589	PORT MORESBY KAPKI 1014.9S 14817.7E BUKA MAJURO
B576	AUCKLAND TONGA PAGO PAGO		B590	NOUMEA PORT VILA NAURU
B577	TAIBEI CHEJU SEOUL		B591	SHANGHAI TAIBEI HENCHUN (Partially implemented)
B578	NADI WALLIS IS APIA PAGO PAGO FICKY 3133.5N 12123.5W		B592	KOTA KINABALU JAKARTA
B579	BRISBANE NOUMEA TAHITI		B593	KOLKATA COMILLA AGARTALA GUWAHATI
B580	PHUKET LANGKAWI PENANG		B595	TAHITI KONA
B581	SYDNEY NOUMEA CHOKO 2022.6N 16053.0W		B596	RAROTONGA DOVRR 1843.0N 15740.0W
B583	NADI FICKY 3133.5N 12123.5W		B597	ERABU TANEGASHIMA SHIMIZU
B584	BRUNEI DARWIN		B598	DARWIN THURSDAY ISLAND PORT MORESBY
	DENPASAR ELANG 0056.0S 11449.5E			

	KAPKI	1014.9S 14817.7E	PALEMBANG
	HONIARA		PANJGUR
	PORT VILA	G210	KARACHI
	NADI		MUMBAI
	NAUSORI		
	TONGA	G212	(KHABAROVSK)
	RAROTONGA		ARGUK 4753.5N 13439.4E
B599	NOUMEA		HAIQING
	NADI		JIAMUSI
	TAHITI		HARBIN
B757	KATCH	5400.0N 13600.0W	TONGLIAO
	CAPE NEWENHAM		GUBEIKOU
	NULUK	5822.9N 17706.1W	QINBAIKOU
B932	BAMOK	5625.5N 17249.3E	NANCHENGZI
	(NETRI	4739.3N 15000.0E)	TAIYUAN
	ODERI	4439.0N 14515.2E	YIJUN
	MEMANBETSU		SANYUAN
G200	CHRISTMAS IS.		XIAOYANZHUANG
	COCOS IS		NINGSHAN
	(PLAISANCE)		WUFENGXI
G202	(KANDAHAR)		FUJIACHANG
	ZHOB	G213	WEINING
	RAHIM YAR KHAN		MAGUOHE
G203	MIHO		KUNMING
	PUSAN	G214	
G204	ELNEX		BIAK
	SHENGXIAN		BEKUB 0350.0N 13845.0E
	METAN		GUAM
	SHANGHAI		
G205	HAMILTON IS.	G215	JIWANI
	GURNEY		PANJGUR
	JUNIE		RAHIM YAR KHAN
G206	DILARAM		MOLTA 3012.0N 07236.2E
	KABUL		
	SABAR	G216	DUTCH HARBOR
	PURPA		OLCOT 5125.8N 16533.3E
G208	MUMBAI		(DORAB)
	PARTY 2414.6N 07052.0E		ALPOR 2404.7N 06120.0E
	KARACHI	G218	LATEM 2431.7N 06449.7E
	PANJGUR		KARACHI
	(ZAHEDAN)		
G209	LAERMONTH	G219	HOHHOT
	CHRISTMAS ISLAND		TUMURTAI
			POLHO 4447.0N 11315.0E
			SOLOK 4954.0N 11545.0E
		G221	VIRUT 0230.8N 10402.7E
			TEKONG
			PHUCAT
			BUNTA 1650.0N 10923.7E
			BAOLONG

	HAIKOU SAMAS SIKOU	G334	TIGER KUALA LUMPUR TIOMAM	2828.8N 07214.9E
G222	SAPDA BROOME AYERS ROCK PARKES		BUNTO DOTAS SIBU	0242.0N 10600.0E 0201.1N 10820.5E
G223	TATEYAMA TONIK 3200.0N 14600.0E NAURU NADI NAUSORI NIUE AITUTAKI	G335	KATHMANDU JANAKPUR PATNA	
	TAHITI (LIMA)	G336	DHANBAD PATNA SIMRA KATHMANDU	
G224	NORFORK IS NADI PAGO PAGO TAHITI ISLA DE PASCUA (SANTIAGO)	G337	PERTH CHRISTMAS IS PEKANBARU	
		G338	CHOIBALSAN KAGAK	
		G339	PUSAN FUKUOKA KAGOSHIMA TANEGASHIMA PAKDO GUAM	
G325	COLOMBO TIRUCHCHIRAPPALLI			
G326	BALI TENNANT CREEK BRISBANE	G340	QINGBAIKOU HUAILAI	
G327	NANHUI NINAS 3100.0N 12215.0E AKARA 3130.0N 12330.0E	G341	CHANGCHUN WANGQING	
G329	BRISBANE NORFORK IS	G342	CAIRNS HONIARA	
G330	SHANGHAI POMOK NANTONG GURNI 3209.2N 12058.5E PIMOL 3215.0N 11944.0E	G344	COMFE 3624.0N 14618.0E CUTEE 4624.9N 16218.6E CUDDA 5647.9N 16018.1W	
		G345	UNTAN CHANGZHOU LISHUI	
G331	PHUKET PADET DAWEI	G346	KIMCHAEK NULAR 4059.2N 13411.0E IGROD 4139.0N 13647.0E	
G332	TANGHEKOU CHAOYANG	G347	AUCKLAND POPIR 2500.0S 17804.8W PADDI 1825.7N 15854.8W	
G333	DELHI ESDEM			

G348	PARO BAGDOGRA MECHI KATHMANDU		CHITTAGONG BAGO BETNO 1505.8N 09812.7E BANGKOK
G424	(DAR ES SALAAM) VUTAS 0912.0N 06000.0E ALATO 1340.7N 06344.0E	G464	PONTIANAK ROZAX 0245.0S 11140.0E BALI
G450	(MOGADISHU) MUMBAI NAGPUR KOLKATA		KARRATHA BALLIDU PERTH
G451	AHMEDBAD SASRO 2404.3N 07100.0E PARTY 2414.6N 07052.0E	G465	(PRASLIN) MALE COLOMBO
G452	(ZAHEDAN) RAHIM YAR KHAN TIGER 2828.8N 07214.9E DELHI	G466	HO CHI MINH PHUCAT HENGCHUN
G453	KUALA LUMPUR KOTA BHARU	G467	LUBANG JOMALIG GUAM
G454	(PLAISANCE) BOBOD 0600.0S 06941.1E PADLA 0446.1N 07800.0E COLOMBO	G468	PENANG MEDAN
G455	SHANGHAI PINOT 3125.2N 12214.2E AKARA 3130.0N 12330.0E	G469	PORT HEIDEN ST PAUL IS NYMPH 5324.5N 16814.4E
G457	DOVRR 1843.0N 15740.0W ELLMS 0500.0S 16704.1W PAGO PAGO FAROA 2500.0S 17502.3W DIVSO 3452.3S 17624.5E	G470	XIANYANG FENGHUO CHANGWU JINGNING JINGTAI QITAI
G458	BANGKOK SURAT THANI PHUKET	G471	SHILONG LONGMEN GANGZHOU
G459	CAIRNS TIMIKA	G472	KARACHI AHMEDABAD NAGPUR BHUBANESHWAR PATHEIN
G460	KUCHING SIBU BINTULU BRUNEI	G473	BAGO MAKAS 1649.7N 09830.0E PHITSANULOK UBON
G463	RAJSHAHI DHAKA	G474	BANGKOK

	MENAM SOURN ANINA PHUCAT	1357.3N 10247.7E 1345.5N 10600.0E 1359.0N 10725.0E	G585	KUCHING MIHO POHANG SEOUL	
G575	TAHITI RANGIROA FICKY	3133.5N 12123.5W	G586	YINGDE ERTANG	
G576	CHEER SPONJ	5310.0N 14000.1W 4992.0N 13005.1W	G587	TAIBEI PABSO BULAN	2538.0N 12252.0E 2704.0N 12400.0E
G578	GURAG DILIS	2100.0N 12725.0E 1431.0N 12600.0E	G588	MOOREN KHOVD TEBUS TESAN FUKANG	4725.1N 09027.7E 4701.7N 08947.8E
	TACLOBAN MACTAN ZAMBOANGA DENPASAR PORT HEDLAND PARABURDOOD PERTH		G590	SIMRA VARANASI KHAJURAHO	
G579	JAKARTA PALEMBANG SINGAPORE JOHOR BAHRU		G591	BHOPAL INDORE BODAR	2236.3N 07413.3E
G580	TOMAN NIMIX ATETI	0121.5N 10547.0E 0124.9N 10759.2E 0125.7N 10830.1E	G593	CAIRNS NOUMEA NORFORK IS AUCKLAND	
	KUCHING MIRI BRUNEI			FUNAFUTI NAUSORI NIUE	
G581	HONG KONG ELATO HENGCHUN MIYAKO JIMA BISIS	2220.0N 11730.0E 2647.0N 12633.0E	G594	RAROTONGA TIAMU TAHITI RAROTONGA AUCKLAND	
	ERABU MIYAKE JIMA		G593	SOLIT (PLAISANCE)	2355.0S 07500.0E
G582	PUGER BATU ARANG PEKAN	0324.1N 10017.6E	G595	(TAHITI) SYDNEY	
G583	EMMONAK BESAT (UST-BOLSHERETSK)	5945.0N 17925.1W	G597	MABAD (PLAISNACE)	2648.4S 07500.0E
	BISIV MONBETSU	4456.3N 14412.3E		DONVO AGAVO SEOUL KANGNUNG	
G584	KUALA LUMPUR PEKAN			MIHO OTSU	

	KOWA OSHIMA VENUS 3618.2N 14042.1E	R212	(DIEGO GARCIA) GUDUG 0704.6S 07500.0E PIBED 0520.2S 09044.0E
G598	LUCKNOW APIPU 2658.6N 08300.0E SIMARU	R215	CHIANG RAI NAN LUANG PRABANG
G599	AUCKLAND TAHITI	R217	NODAN 4025.0N 14500.0E SENDAI NIIGATA
R200	PINGZHOU LIANSHENGWEI BIGRO ZHANJIANG	R218	DELHI DIPAS 2738.3N 07551.9E JAIPUR
R201	BANGKOK UTAPAO	R220	DAIGO IWAKI NANAC 3854.2N 14313.9E NIPPI 4942.6N 15920.8E NODLE 6117.0N 15200.0W
R203	SAPAM 0804.6N 09733.0E PHUKET		
R204	KEITH 2100.0N 13456.5E KALIN 0000.0N 14200.0E LIDIT 0918.0S 14220.0E HORN IS CAIRNS	R221	MERSING PULAU TIOMAN
R205	ANARAK BIRJAND	R223	BRUNEI ELANG 0056.0S 11449.5E
R206	PORT HEDLAND CHRISTMAS IS JAKARTA	R325	KATHMANDU JANAKPUR DUMKA 2411.0N 08721.3E KOLKATA PHUKET HAT YAI IPOH
R207	VIENTIANE NAN CHIANG MAI MANDALAY		JOHOR BAHRU
R208	KUALA LUMPUR KUALA TRENGGANU KANTO 0649.9N 10348.3E	R326	NORFOLK IS CHRISTCHURCH
R209	TATOX 0857.0N 09702.0E LANGKAWI	R327	GISBORNE FAROA
R210	PORT MORESBY CAIRNS	R329	KAGLU 1231.2N 07200.0E MALE GAN (DIEGO GARCIA)
R211	KASMI 3601.3N 14040.3E DAIGO NIIGATA KADBO 3914.0N 13745.4E AVGOK 4336.0N 13815.0E VELTA 4529.0N 13710.0E	R330	SHEMYA POWAL 5024.3N 16530.8E

R332	MAJURO BONRIKI AKUMO ROTUMA NADI	0614.9S 17535.5E	R345	RAJSHAHI ROIET BIDEM 142153.57N 1034750.07E SIEM REAP
R334	RAYONG KOH KONG SIHANOUK PADMA PHU QUOC	1025.8N 10402.3E	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	LEMOKE 1000.0N 10302.2E RASER 1000.0N 10506.0E HO CHI MINH
R339	SIKOU HUGUANG NANNING BOSE	2050.6N 11130.0E	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
R342	MANADO BONDA PEDNO GENERAL SANTOS DAVAO	0200.0N 12451.2E 0400.0N 12521.0E	R453	UAMRI 4217.6N 13041.8E (TEKUK) 4241.0N 13527.4E
R343	NANXIANG WUXI LISHUI HEFEI WUHAN LONGKOU LAOLIANGCANG DARONGJIANG LAIBIN NANNING		R455	NADI APIA PONTIANAK KUCHING
R344	KATHMANDU BIRATNAGAR KATIHAR		R458	MUMBIA EPKOS 1653.0N 07407.2E BELGAUM
			R457	CHENNAI TIRUCHCHIRAPPALLI MADUDAI TRIVANDRUM MALE
			R460	DELHI ALIGARH LUCKNOW VARANASI

	GAYA KOLKATA	NANNING LONGZHOU HANOI VIENTIANE BANGKOK
R461	MUMBAI MABTA 1708.5N 07321.8E BELGAUM COIMBATORE COLOMBO MEDAN KUALA LUMPUR	R575 PAPRA 1546.0N 10711.0E KOH KONG UPNEP 0942.2N 10029.6E SURAT THANI
R462	(SEEB) DENDA 2442.5N 06054.8E JIWANI KARACHI UPAIPUR DELHI	R576 DENNS 2222.0N 15353.0W DINTY 3329.0N 12235.0W
		R577 EBBER 2143.0N 15309.0W ELKEY 3241.0N 12203.0W
		R578 FITES 2049.0N 15300.0W FICKY 3133.5N 12123.5W
R463	APACK 2402.6N 15619.2W ALCOA 3750.0N 12550.0W	(R579 in Chapter 2)
R464	BITTA 2332.0N 15529.0W BEBOP 3700.0N 12500.0W	R580 OATIS 3800.0N 14345.0E OMOTO 4859.7N 16000.7E
R465	CLUTS 2300.0N 15439.0W CLUKK 3605.0N 12450.0W	AMOTT 6053.9N 15121.8W
R467	KUALA LUMPUR GUNIP 0429.9N 09931.9E	R581 KOLKATA MONDA 2521.0N 08626.4E SIMARA
R468	BANGKOK BOKAK 1257.5N 10230.0E PHNOM PENH SAPEN 1102.2N 10611.0E HO CHI MINH	R582 NORFOLK IS RAROTONGA
R469	PEKANBARU SINGAPORE	R583 TAIBEI BISIS 2647.1N 12633.1E OKINAWA MINAMIDAITO SABGU BUNGO
R470	VIENTIANE UDON THANI KHON KAEN	R584 OKINAWA KEITH 2100.0N 13456.5E GUAM
R472	KOLKATA RAJSHAHI GUWAHATI	TRUK POHNPEI KWAJALEIN MAJURO
R473	LILING NANXIONG WONGYUANG ZHULIAO PINGZHOU TAMOT 2221.5N 11352.0E	JOHNSTON IS CHOKO 2022.9N 16053.2W
R474	GAOYAO	R585 CITTA 2818.9N 14507.2W GATES 3412.7N 12303.9W
		R587 BRISBANE PORT VILA

R588	PHUKET RELIP PHNOM PENH PLEIKU	L333	KHAJURAHO JAIPUR TIGER 2828.8N 07214.9E
R590	AMBON COTABATO	L500	(SANTIAGO) AUCKLAND
R591	CAPE NEWENHAM AKISU 4734.3N 16119.3E ABETS 3605.0N 14425.0E	L501	(RIO GALLEGOS) AUCKLAND
R592	BALI ONSLOW PERTH	L502	ISLA DE PASCUA (LOS ANGELES)
R594	LUCKNOW JALALABAD DELHI	L503	BRISBANE IGEVO 3636.5S 16300.0E CHRISTCHURCH
R595	ANPU MIYAKO JIMA KEITH 2100.0N 13456.5E GUAM	L504	SINGAPORE MANADO
R597	CABANATUAN SARSI 1642.0N 12316.9E SKATE 1716.7N 12423.0E	L505	BUSBO 1914.9N 07807.6E KAMOL 1938.1N 07340.0E NOBAT 2109.0N 06800.0E
R598	KOLKATA RAJSHAHI SAIDPUR COOCH BEHAR BOGOP PARO	L507	KOLKATA BAGO BANGKOK
R599	KIETA GIZO HONIARA PORT VILA WHANGAREI AUCKLAND	L508	RAROTONGA CHRISTCHURCH MELBOURNE
RNAV ROUTES		L509	GAYA ASARI 3048.3N 07509.5E
L301	BANGKOK DAWEI VISHAKHAPATNAM BUSBO 1914.9N 07807.6E NOBAT 2109.0N 06800.0E RASKI 2303.5N 06352.0E (VAXIM 2319.0N 06111.0E)	L510	IBANI 250000N 0764311E ELBAB 201333N 0815954E LEKIR 071632N 0965243E GIVAL 070000N 0980000E
		L512	INTOS 3722.0N 13120.0E NIIGATA
		L513	PERTH HOBART AUCKLAND
		L515	OBMOG 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 TERIX	0409.3N 11028.1E 0415.4N 10934.9E	L643	TANSONNHET CONSON
L518	HIA BBZ GOPNU EGOLU SADAP	171340.1N 0782420.9E 163118.3N 0804733.7E 155112N 0820224E 141858N 0844952E 120605.6N 0884120.8E	L644 L645	CONSON JAKARTA COLOMBO SULTO 0738.6N 08801.9E SAMAK 0758.7N 09425.0E SAPAM 0804.6N 09733.0E PHUKET
L521	SYDNEY AUCKLAND		L626	KATHMANDU ONISA 2858.1N 08005.5E DELHI
L625	LUSMO AKMON ALDAS ANOKI ARESI AKOTA AVMUP POTIB	0333.7N 10655.7E 0812.8N 11013.4E 1056.9N 11212.3E 1222.0N 11315.0E 1358.4N 11427.0E 1706.6N 11651.6E 1843.3N 11808.3E 2100.0N 12045.5E	L756	CLAVA MALE
			L759	DELHI POSIG 2713.0N 07734.9E AGRA KHAJURAHO PHUKET
L628	LUBANG IBOBI GUKUM ARESI MESOX DAMEL VEPAM PHUCAT		L760	AGRA GURTI 2743.8N 07747.8E DELHI
L629	PEKAN DOLOX	1354.4N 11832.6E 1356.8N 11637.2E 1358.4N 11427.0E 1358.4N 11427.0E 1358.7N 11130.6E 1358.0N 11000.0E 0448.7N 10522.9E	L774	(PLAISANCE) LELED 116.5S 07500.0E ELATI 0200.0S 08957.7E KETIV 0042.0S 09200.0E MEDAN
L635	PEKAN MABLI	0417.3N 10612.9E	L888	BIDRU 2243.1N 10057.9E NIVUX 2600.0N 10000.0E SANLI 3200.0N 10000.0E
L637	BITOD TANSONNHET	0715.3N 10612.9E		TEMOL 3527.1N 09412.2E TONAX 3745.5N 09011.3E
L642	CHEUNG CHAU EPDOS ENBOK EGEMU VEPAM PHANTHIET CONSON IS ESPOB ENREP MERSING	1900.0N 11333.3E 1833.4N 11329.5E 1700.0N 11217.0E 1358.0N 11000.0E 0700.0N 10533.4E 0452.4N 10414.8E	L894 L896	KUCA VOR (KCA) KITAL 2003.0N 06018.0E MALE SUNAN 0028.7S 07800.0E DADAR 0200.0S 07927.1E PERTH SAPDA 1200.0S 11125.6E NISOK 0302.9N 09200.0E DUGOS 0853.1N 08447.9E

	CHENNAI	M626	KOTA BHARU
L897	CHRISTMAS ISLAND KETIV 0042.0S 09200.0E		DAWEI BAGO
	COLOMBO	M635	SINGAPORE
L899	HANIMAADHOO TRIVANDRUM		RAMPY 0615.0 11320.8E CURTIN
M300	(EMURU 2215.6N 05849.8E) LOTAV 2037.0N 06057.0E CALICUT MADURAI SALAX 0212.4N 10133.7E	M638	DOSTI 2558.0N 06503.0E KARACHI MINAR 2350.0N 06800.0E SAPNA 2330.0N 06750.0E NOBAT 2109.0N 06800.0E MUMBAI
M501	GUAM LIMLE 1639.7N 13000.0E SKATE 1722.2N 12425.6E LAOAG NOMAN 2000.0N 11640.3E	M639	IGEVO 3636.5S 16300.0E WELLINGTON
M502	BANGKOK AKATO 1337.3N 09910.3E LALIT 1252.4N 09225.1E	M641	MADURAI BIKOK 0817.0N 07836.0E COLOMBO COCOS IS
M504	ALPOR 2404.7N 06120.0E NODER 2350.0N 06700.0E TELEM 2402.0N 06846.0E	M643	PERTH HOBART CHRISTCHURCH
		M644	RAYONG KOTA BHARU
M505	BUON MA THUOT MONDULKIRI SIEM RIEP	M750	KILOG 2152.5N 11441.6E ENVAR 2159.5N 11730.0E MOLKA 2639.5N 12400.0E MOMPA 3050.5N 12955.1E MANEP 3242.9N 13340.0E SOPHY 3327.2N 13721.9E MIYAKE JIMA
M510	CAN THO PHNOM PENH		
M512	COLOMBO ANIVE 0540.9N 07800.0E MALE	M751	MERSING PEKAN KOTA BHARU REGOS 1200.0N 10035.1E BANGKOK
M520	SERNA 5018.5N 10628.1E POLHO 4447.0N 11315.0E		
M522	VINIK 0838.5N 11613.8E KOTA KINABALU MAMOK 0405.1N 11547.2E DENPASAR	M753	ENREP 0452.4N 10414.8E BITOD 0715.3N 10407.3E PHUQUOC CAMPUS 1030.0N 10402.3E PHNOM PENH
M625	MELBOURNE WELLINGTON	M754	BRUNEI

	VINIK	0838.6N 11613.8E	LAGOT	0716.5N 11132.7E
	TENON	0915.3N 11616.5E	AKMON	0812.9N 11013.1E
	LULBU	1104.7N 11624.4E	MOXON	0849.5N 10921.3E
	NOBEN	1234.4N 11631.1E	DAGAG	0927.8N 10826.5E
	GUKUM	1356.8N 11637.2E	TANSOONNHAT	
	AKOTA	1706.6N 11651.6E	M770	KOTA BHARU
M755	PHNOM PENH			RANONG
	KISAN	1032.3N 10440.5E	BUBKO	1911.1N 08839.8E
	BITOD	0415.4N 10407.1E	KAKID	2038.6N 08659.9E
M758	PEKAN			JAMSHEDPUR
	LUSMO	0333.7N 10655.7E	M771	MERSING
	TERIX	0415.4N 10934.7E		DOLOX 0448.7N 10522.9E
	OLKIT	0450.1N 11149.1E		DUDIS 0700.0N 10648.6E
	KOTA KINABALU			DAGAG 0927.8N 10826.5E
M759	OLKIT	0450.1N 11149.1E		DOXAR 1222.0N 11022.7E
	BRUNEI			DAMEL 1358.7N 11130.6E
M761	PEKAN			DONDA 1442.2N 11201.3E
	BOBOB	0222.1N 10706.1E		DOSUT 1702.0N 11340.8E
	SABIP	0209.7N 10750.5E		DULOP 1814.2N 11432.6E
	AGOBA	0158.7N 10830.0E		DUMOL 1900.0N 11426.8E
	KUCHING			HONG KONG
M766	COLOMBO		M773	BUBKO 1911.1N 08839.8E
	JAKARTA			LEGOS 2138.0N 08805.3E
	INDRAMAYU			KOLKATA
	MADIN	0617.9S 11023.0E	M774	SINGAPORE
	CUCUT	0617.7S 11106.0E		KIKEM 0952.9S 12607.4E
	SURABAYA		M875	KAKID 2038.6N 08659.9E
	BALI			BUTOP 2919.7N 07523.9E
	DARWIN			GUGAL 3014.5N 07358.0E
M765	KOTA BHARU			DERA ISMAIL KHAN
	IGARI	0656.2N 10335.2E	M890	LUCKNOW
	BITOD	0715.3N 10407.3E		CHANDIGARH
	CONSON			SAMAR 3120.8N 07434.0 ^E
	DAGAG	0927.8N 10826.5E	M904	BANGKOK
	MAPNO	1013.1N 11020.1E		U-TAPHAO
M767	JOMALIG			DIPUN
	TOKON	1142.0N 11940.3E		SIRAT
	TENON	0915.3N 11616.5E		TONIK
	TEGID	0857.2N 11551.6E		TIDAR
	TODAM	0631.7N 11235.4E		ODONO
M768	DARWIN			UPRON
	BRUNEI			ENREP
	DOGOG	0525.3N 11407.5E	N502	PARDI 0034.0S 10413.0E
	ASISU	0559.1N 11320.8E		BOBAG 0102.5N 10329.9E
	TODAM	0631.6N 11235.6E		

N509	ELATI PORT HEDLAND	0200.0S 08957.7E	ARUPA NIMIX BOBOB ENREP	0031.7N 10848.8E 0124.9N 10759.4E 0222.1N 10706.0E 0452.4N 10414.7E
N519	MUMBAI SAPNA MINAR KARACHI	2330.0N 06750.0E 2350.0N 06800.0E	N877	LAGOG VISHAKHAPATNAM NAGPUR PRATAGRAPH
N563	(EMURU REXOD BANGALORE MEDAN SALAX	2214.0N 05853.6E 2112.5N 06138.5E 0212.4N 10133.7E	N884	MERSING LUSMO LAGOT LAXOR LULBU 110936.07N 1163217.70E
N564	DUGOS AKMIL	0853.1N 08447.9E 1151.6N 08006.9E		LEGED 130113.24N 1190006.94E
N571	(RAGMA PARAR VAMPI GUNIP	2306.0N 06105.7E 2226.5N 06307.0E 0610.9N 09735.1E 0429.9N 09931.8E		LUBANG CABANATUAN MIYAKOJIMA
N628	PEKANBARU BUSUX (PRASLIN)	0355.0S 06000.0E	N891	PAPA UNIFORM ENREP IGARI SAMOG RAYONG BANGKOK
N633	KUALA LUMPUR PEKANBARU POSOD PEDPI (PLAISANCE)	0329.5S 09409.9E 1316.6S 07500.0E	N892	HENGCHUN KABAM MUMOT MAVRA MIGUG MESOX MUGAN MAPNO MOXON MELAS MABLI MERSING
N640	TRIVANDRUM BIKOK COLOMBO LEARMONTH MOUNT HOPE ADELAIDE	0817.0N 07836.0E		KABAM MUMOT MAVRA MIGUG MESOX MUGAN MAPNO MOXON MELAS MABLI MERSING
N645	BRUNEI ELANG SURABAYA	005535.64S 1145003.10E		TELEM AHMEDABAD
N750	SYDNEY CHRISTCHURCH		N893	BETNO PATHEIN BHUBANESWAR NAGPUR BODAR AHMEDABAD
N759	MELBOURNE AUCKLAND		N895	2407.0N 06846.0E 1505.8N 09812.7E BODAR 2236.3N 07413.3E AHMEDABAD
N774	AUCKLAND SYDNEY			PARTY 2414.6N 07052.0E
N875	DENPASAR PONTIANAK			

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

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

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

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

Chapter 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	
RUS 1	SESUR XXXXX KAE	N4217.5 E13041.5 N3838.0 E12924.7 N3742.0 E12845.2	VLADIVOSTO K INCHOEN	
RUS 2	TEKUK XXXXX KAE	N4241.0 E13527.0 N3838.0 E12924.7 N3742.0 E12845.2	VLADIVOSTO K INCHOEN	
RUS 3	BG TELOD XXXXX KAE	N 4353.0 E13315.0 N4219.6 E13211.8 N3838.0 E12924.7 N3742.0 E12845.2	VLADIVOSTO K VLADIVOSTO K INCHOEN	
RUS 4	AVGOK-GTC			
RUS 5	SIBIR – LURED – EKVIK			
CHA13	FENGNING (GM) – DAILAN (DBL)			
RUS 6	NALEB - SIBIR			
RUS 7	DIKUT or SANAR - SAMON			
RUS 8	KANSU -			

	TOMMY			
RUS 9	RITEK- new waypoint 495025N 1182854E - HLD			
RUS 10	TIKUN - URILA - GINUR - GU			
RUS 11	SIMLI - new waypoint 492000N 1270600E - DIKUT			
RUS 12	HRB - 493236N 1281936E - AMERA – WZ			
RUS 13	SIMLI - HEK - 492000N 12706E - LEPNI - 422624.7N 1294454.7E - KANSU			
RUS 14	NEW WAYPOINT - KANSU			
RUS 15	LEPNI 435542N 1285030E - new waypoint 493236N			

ATS ROUTE NAME: PHI 1

REQUESTED BY: IATA

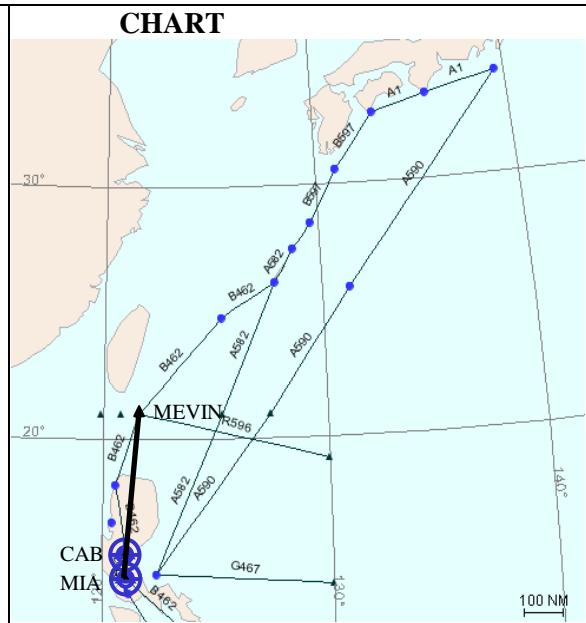
ENTRY/EXIT POINT

ROUTE DESCRIPTION

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

FLIGHT LEVEL BAND 28000 – 46000 feet

PRIORITY: HIGH/MED/LOW



Action Required	IATA ICAO
-----------------	--------------

Saving	Per flight	Annual
Mileage / Time	11nm/1.5min	
Fuel	179kg	59,300kg
CO ₂	550kg	200,750kg
No _x		

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

Potential City Pairs: Philippines-Japan/North America

ATS ROUTE NAME: PHI 3

REQUESTED BY: IATA

**ENTRY/EXIT POINT
XXXXX**

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

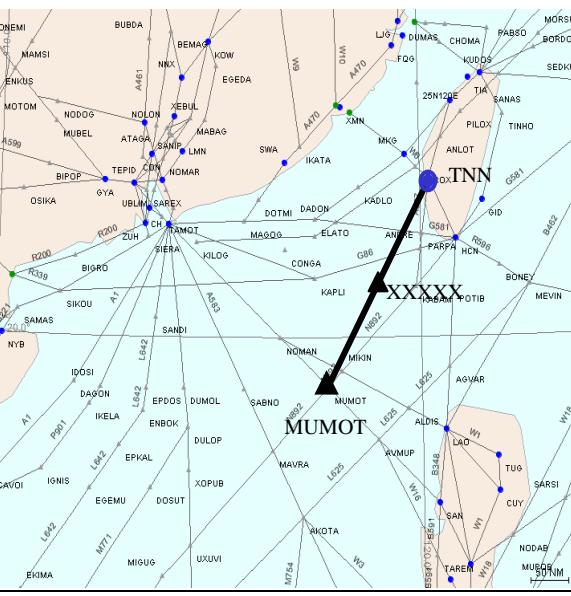
FLIGHT LEVEL BAND

29000 - 46000

PRIORITY: HIGH/MED/LOW

HIGH

CHART



Action Required	IATA
	ICAO

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

Remarks: Supports traffic from TNN to Southeast Asia

Potential City Pairs:

ATS ROUTE NAME: PHI 4

REQUESTED BY: IATA

ENTRY/EXIT POINT

XXXXX

ROUTE DESCRIPTION

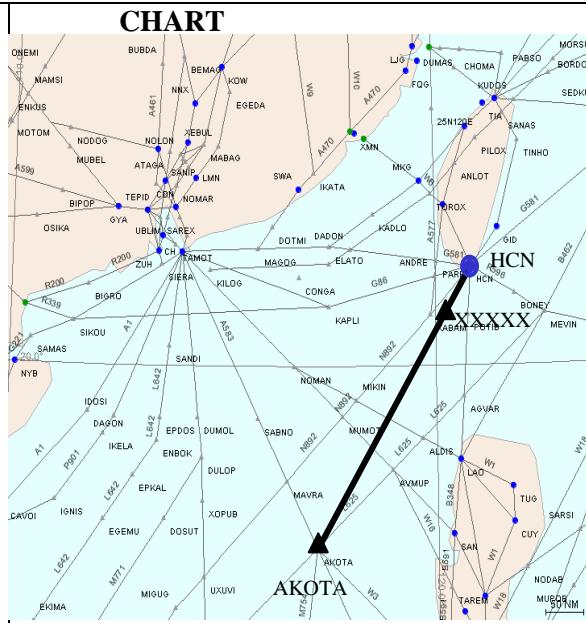
AKOTA... XXXXX ... Hengchun (HCN)

FLIGHT LEVEL BAND

29000 - 46000

PRIORITY: HIGH/MED/LOW

HIGH



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

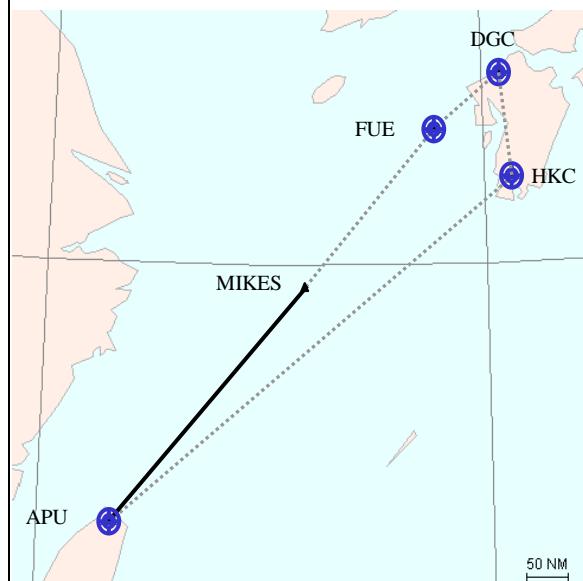
ENTRY/EXIT POINT
APU / XXXXX / MIKES

ROUTE DESCRIPTION
APU- MIKES

FLIGHT LEVEL BAND
28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

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

Remarks: Supports traffic between APU and Japan.

Potential City Pairs: SEA/HKG/TPE-Fukuoka

ATS ROUTE NAME: CHA 1 (Renumbered from CHA5)

REQUESTED BY: IATA

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

FLIGHT LEVEL BAND
8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

Action Required	IATA
	ICAO

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

Remarks

Potential City Pairs: Europe-Shanghai

ATS ROUTE NAME: CHA2 (Renumbered from CHA 7)

REQUESTED BY: IATA

ENTRY/EXIT POINT

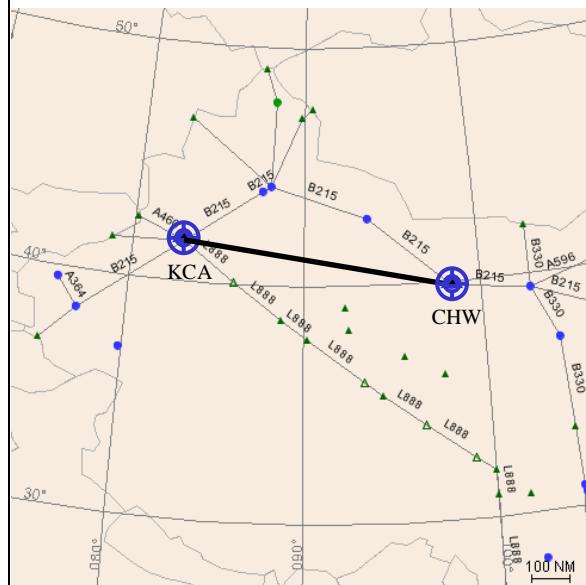
ROUTE DESCRIPTION

Kuqa (KCA) .. Jiayuguan (CHW)

FLIGHT LEVEL BAND 8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

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

Remarks: 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

ENTRY/EXIT POINT

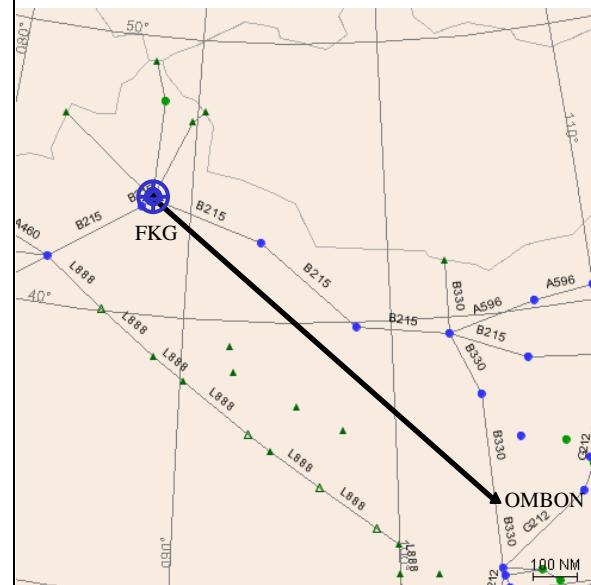
ROUTE DESCRIPTION

Fukang (FKG) .. OMBON

FLIGHT LEVEL BAND 8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time	123nm/ 15.5min	
Fuel	2000kg	730,000kg
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

ENTRY/EXIT POINT

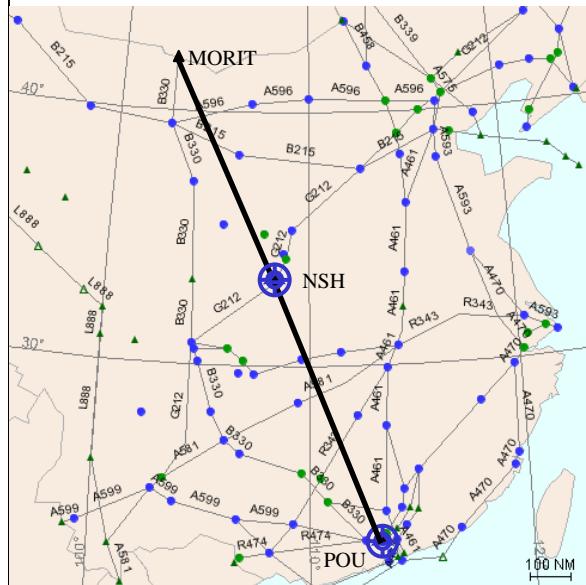
ROUTE DESCRIPTION

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

FLIGHT LEVEL BAND
8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

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

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

Potential City Pairs: Europe Russia-Pearl River Delta Airports

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

REQUESTED BY: IATA

ENTRY/EXIT POINT

ROUTE DESCRIPTION

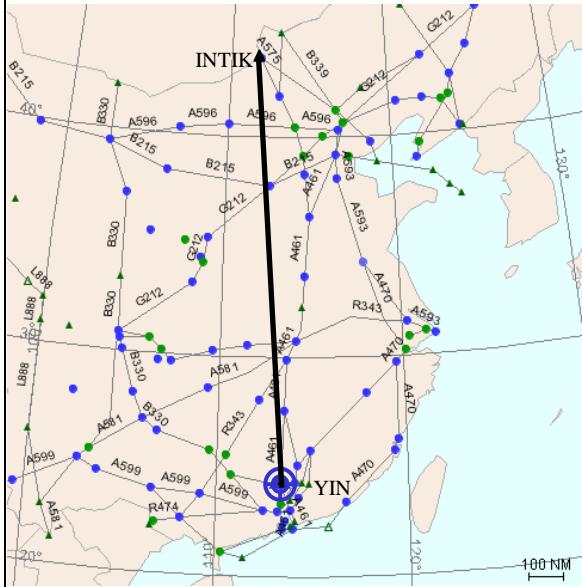
Yingde (YIN) .. INTIK

FLIGHT LEVEL BAND

8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

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

Remarks: 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

ENTRY/EXIT POINT

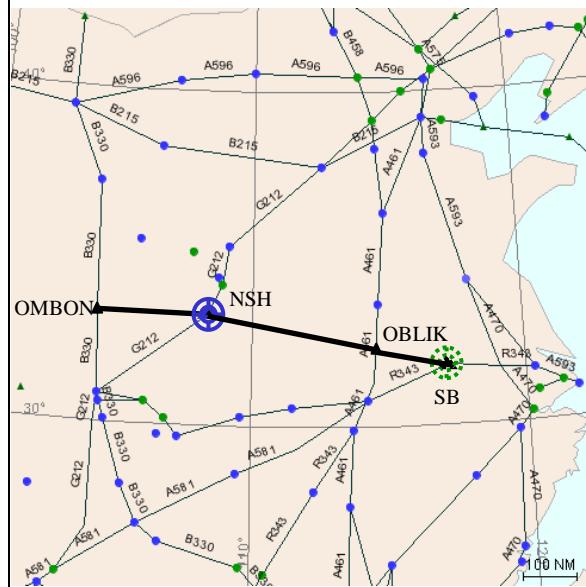
ROUTE DESCRIPTION

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

FLIGHT LEVEL BAND
8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



Action Required

IATA

ICAO

Saving

Per flight

Annual

Mileage / Time

Fuel

CO₂

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

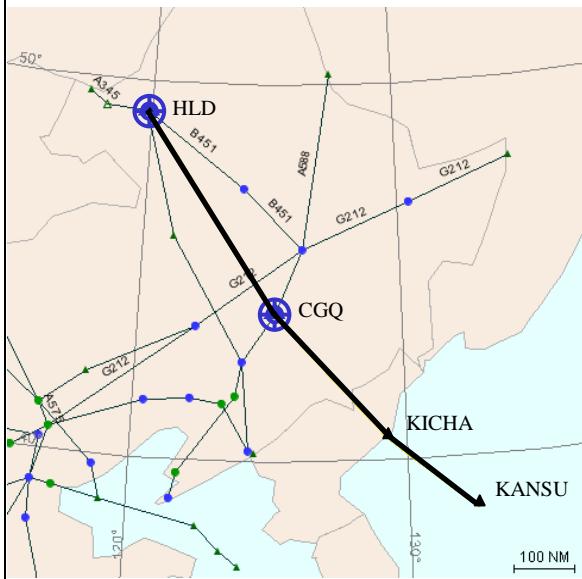
ENTRY/EXIT POINT
KANSU/XXXXX

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

FLIGHT LEVEL BAND
8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

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

Remarks

Potential City Pairs: Europe-Korea /Japan

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

REQUESTED BY: IATA

ENTRY/EXIT POINT

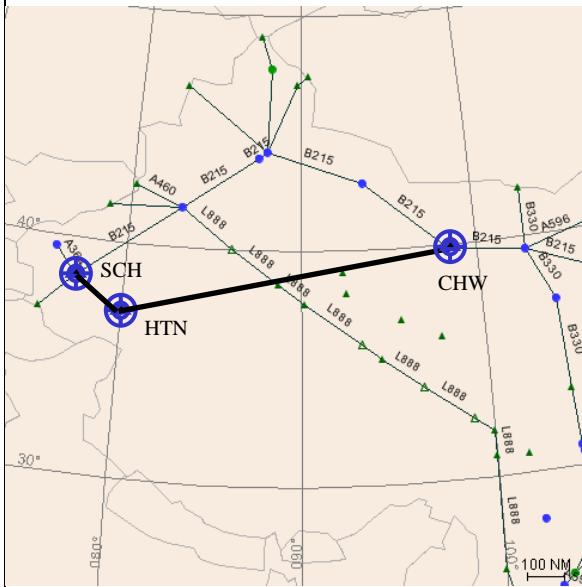
ROUTE DESCRIPTION

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

FLIGHT LEVEL BAND
8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

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

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

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

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

REQUESTED BY: IATA

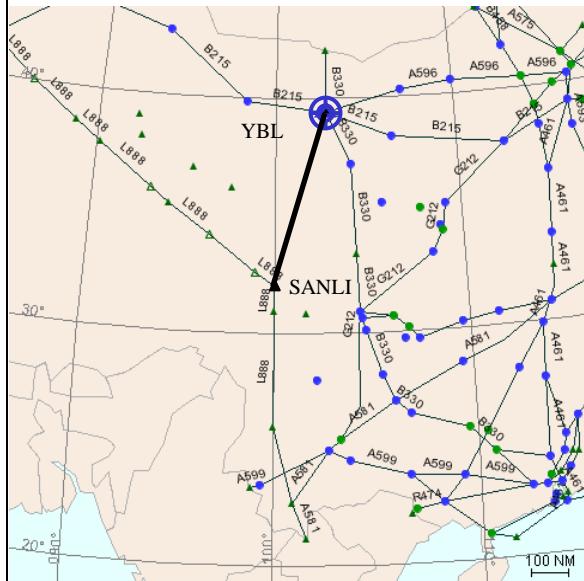
ENTRY/EXIT POINT

ROUTE DESCRIPTION
Yabrai (YBL) .. SANLI

FLIGHT LEVEL BAND
8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA.
	ICAO

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

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

Potential City Pairs: North America-SE Asia

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

REQUESTED BY: IATA

ENTRY/EXIT POINT

ARGUK/BEMAG

ROUTE DESCRIPTION

ARGUK/DALIAN/HEFEI/BEMAG

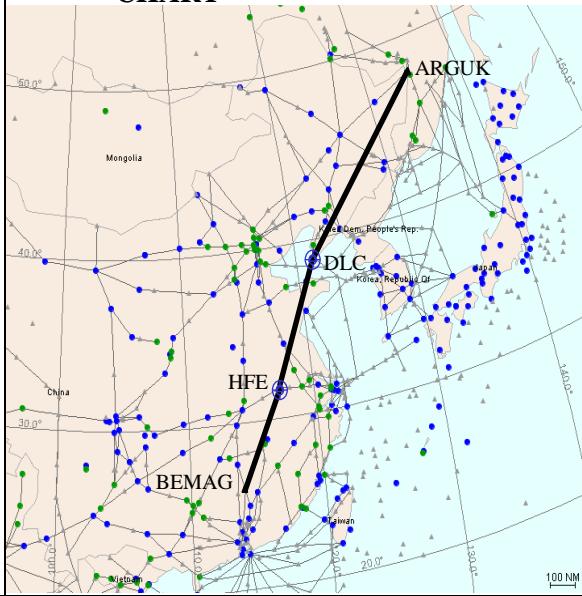
FLIGHT LEVEL BAND

8400-15000 metres

PRIORITY: HIGH/MED/LOW

HIGH

CHART



Action Required

IATA

ICAO

Saving

Per flight

Annual

Mileage / Time

Fuel

CO₂

No_x

Remarks: There are exiting 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

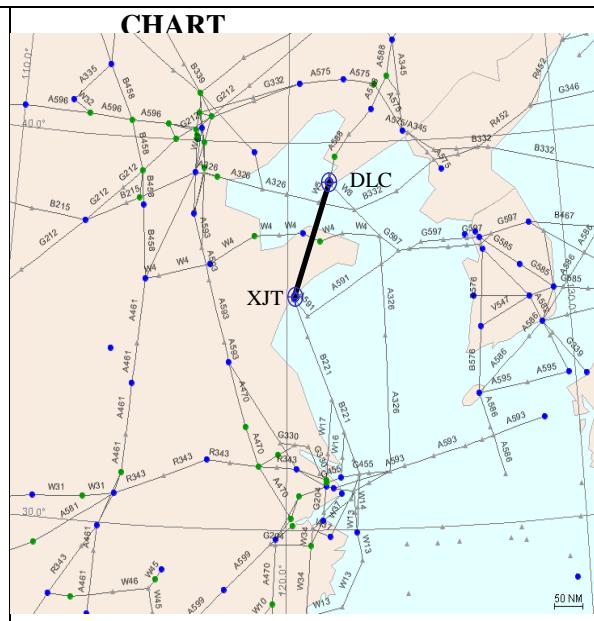
DALIAN/ XJT /B221

FLIGHT LEVEL BAND

8400-15000 metres

PRIORITY: HIGH/MED/LOW

HIGH



Action Required	IATA ICAO
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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

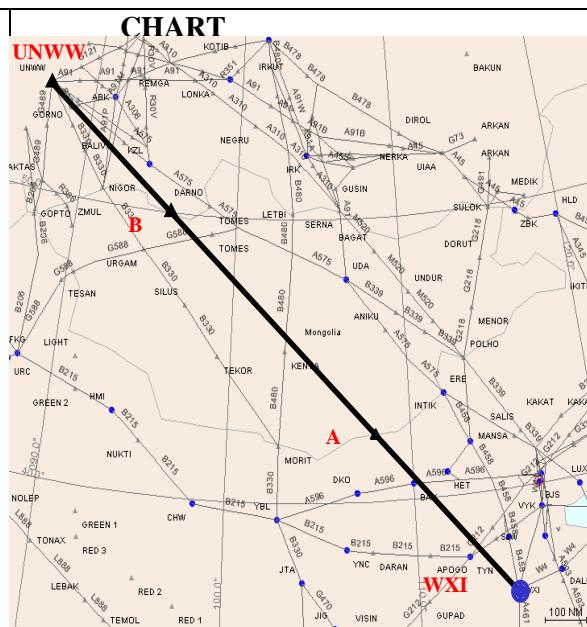
ROUTE DESCRIPTION

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

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

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

ATS ROUTE NAME: IATA 2

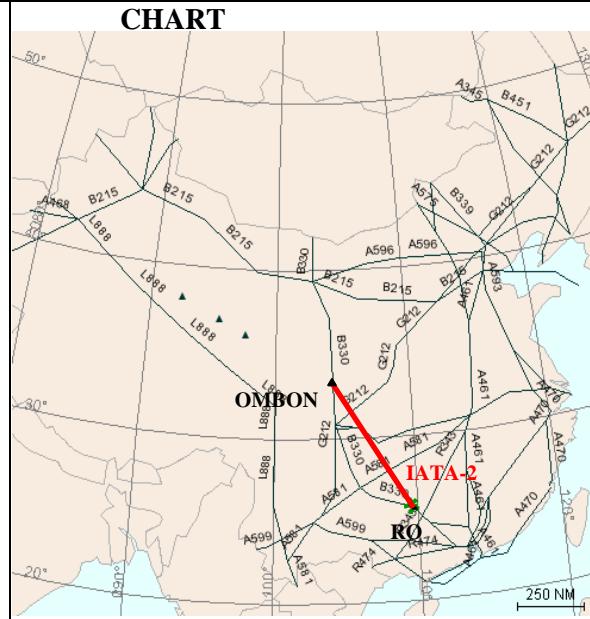
REQUESTED BY: IATA

ENTRY/EXIT POINT

ROUTE DESCRIPTION

**FLIGHT LEVEL BAND
8400 – 15000 meters**

PRIORITY: HIGH/MED/LOW



Action Required	IATA
	ICAO

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

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

Potential City Pairs: Europe –Pearl River Delta Airports

ATS ROUTE NAME: IATA 3

REQUESTED BY: IATA

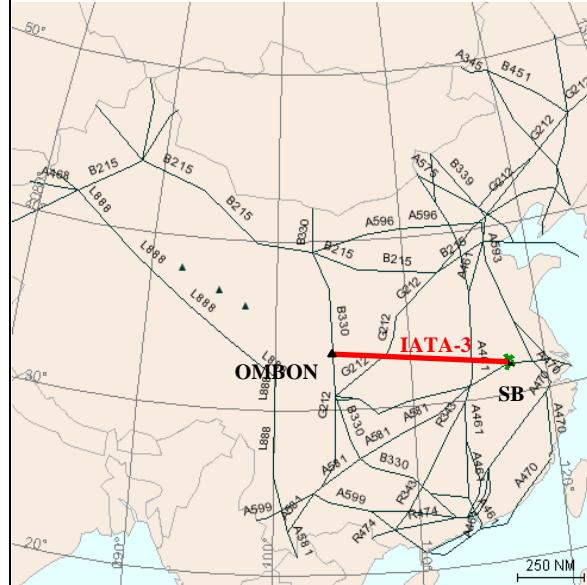
ENTRY/EXIT POINT

ROUTE DESCRIPTION

FLIGHT LEVEL BAND
8400 – 15000 meters

PRIORITY: HIGH/MED/LOW

CHART



Action Required	IATA
	ICAO

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

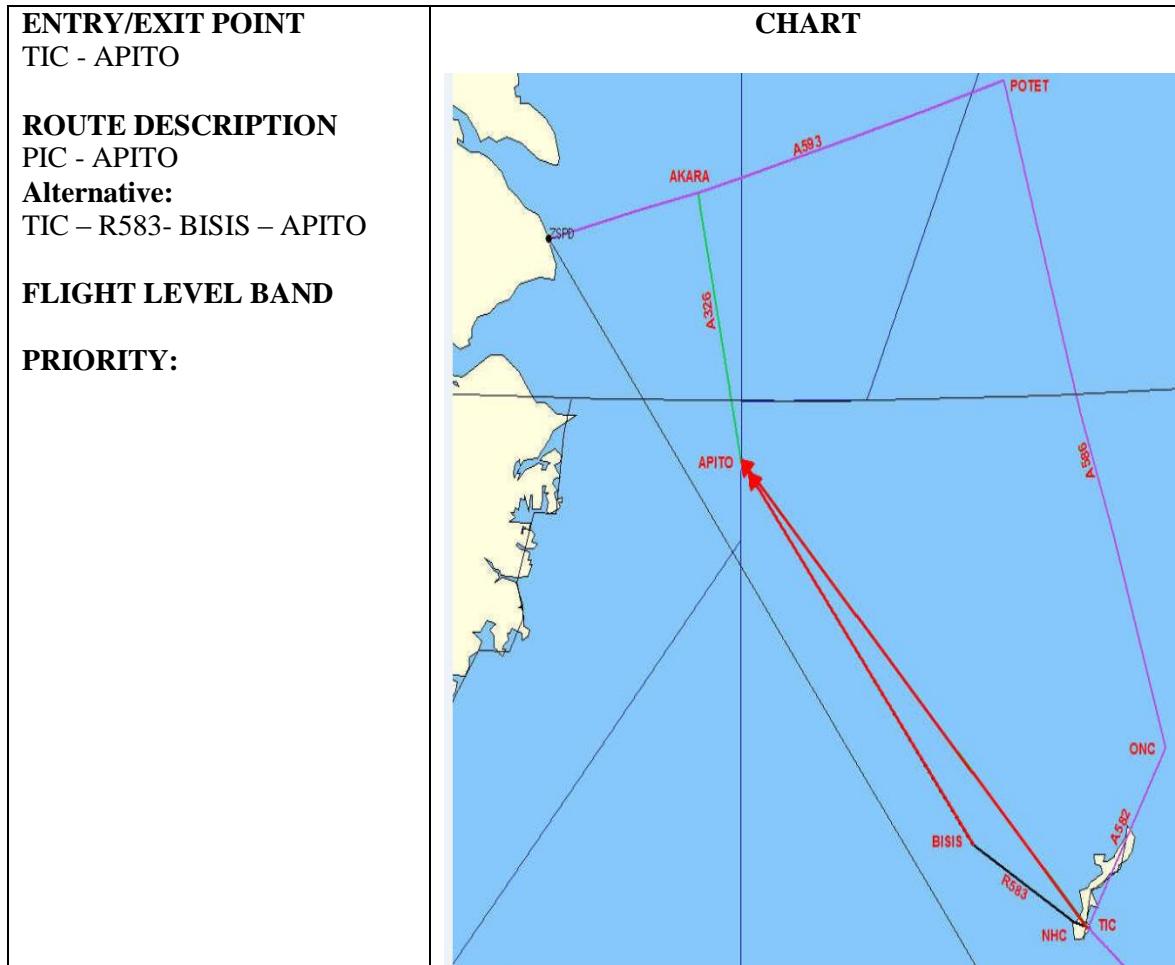
Remarks: There are exiting routes between OMBON and SB; direct route is impossible at present.

Potential City Pairs: Europe-Shanghai

ATS ROUTE NAME: JAP 1
REQUESTED BY: IATA

Date: 25 June 2012

(ATM/AIS/SAR/SG-22)



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: RUS 1

Requested by : IATA

ENTRY/EXIT POINT

XXXXX

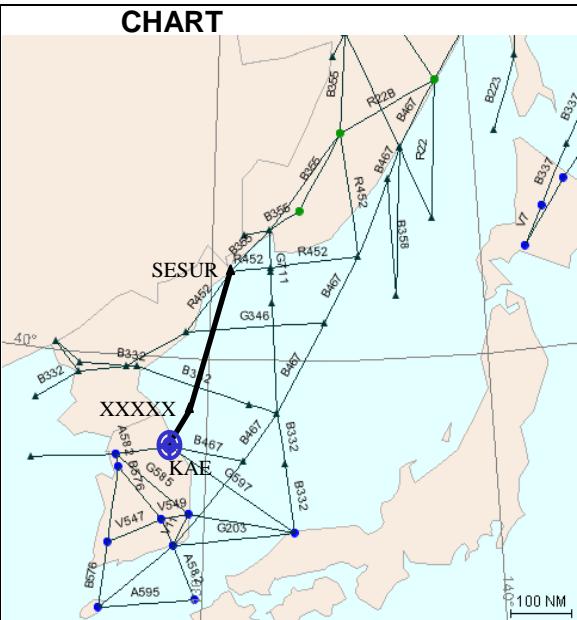
ROUTE DESCRIPTION

SESUR .. XXXXX .. Gangwon (KAE)

FLIGHT LEVEL BAND 28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

“XXXXX” Approx N38 38.0 E129 24.7



Action Required	IATA ICAO
-----------------	--------------

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

Remarks

Potential City Pairs: North America- Inchoen

ATS ROUTE NAME: RUS 2

Requested by : IATA

ENTRY/EXIT POINT

XXXXX

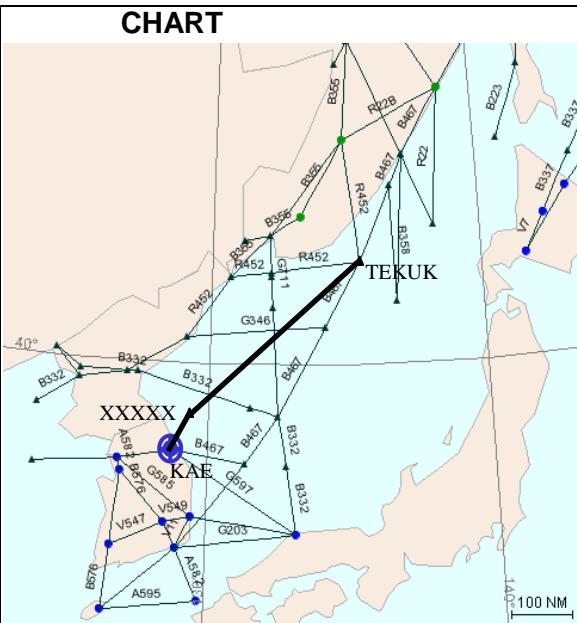
ROUTE DESCRIPTION

TEKUK .. XXXXX .. Gangwon (KAE)

FLIGHT LEVEL BAND 28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

“XXXXX” Approx N38 38.0 E129 24.7



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

Remarks

Potential City Pairs: North America- Inchoen

ATS ROUTE NAME: RUS 3

Requested by : IATA

ENTRY/EXIT POINT

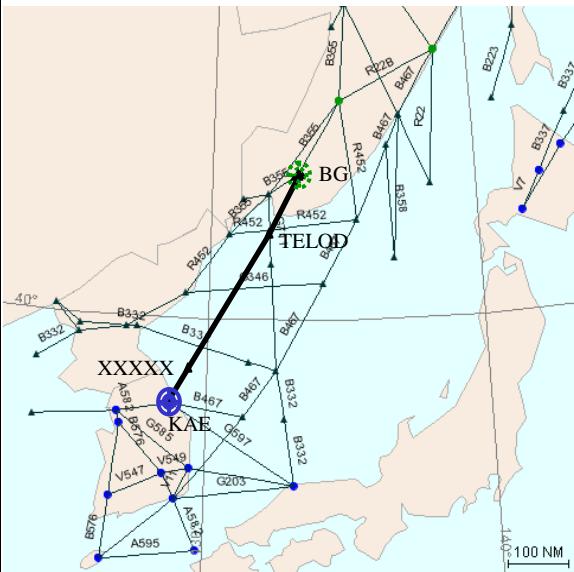
XXXXX

ROUTE DESCRIPTION
Muraveyka (BG) .. TELOD .. XXXXX ..
Gangwon (KAE)

FLIGHT LEVEL BAND 28000 – 46000 feet

PRIORITY: HIGH/MED/LOW

“XXXXX” Approx N38 38.0 E129 24.7



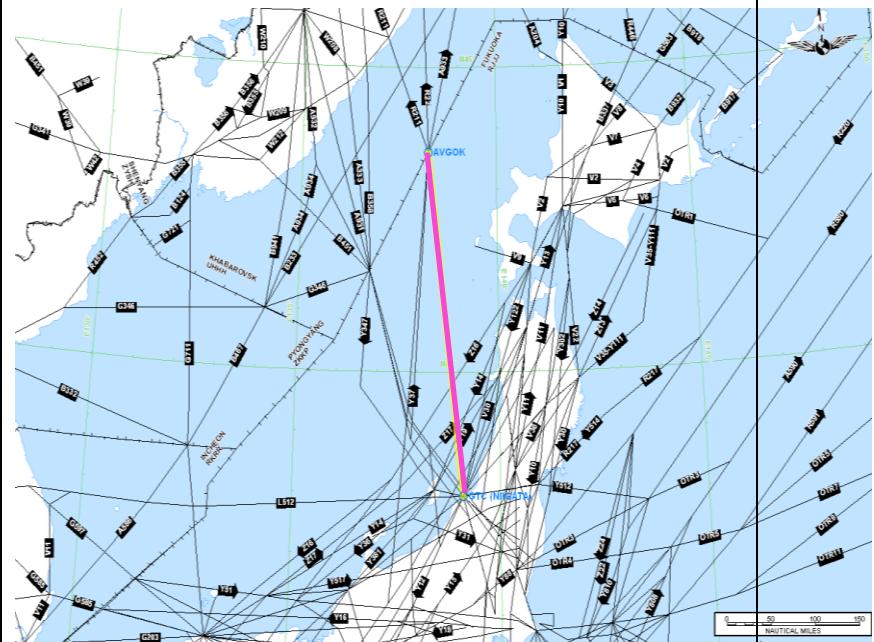
Action Required	IATA ICAO
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Saving	Per flight	Annual
Mileage / Time	136/17mins	
Fuel	2,194kg	800,000kg
CO ₂	6750kg	2,464 tonnes
No _x		

Remarks

Potential City Pairs: North America- Inchoen

ATS ROUTE NAME: RUS 4
REQUESTED BY: IATA

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

IATA

ICAO

Saving**Per flight****Annual**

Mileage / Time

Fuel

CO₂No_x

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

Objective:

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

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

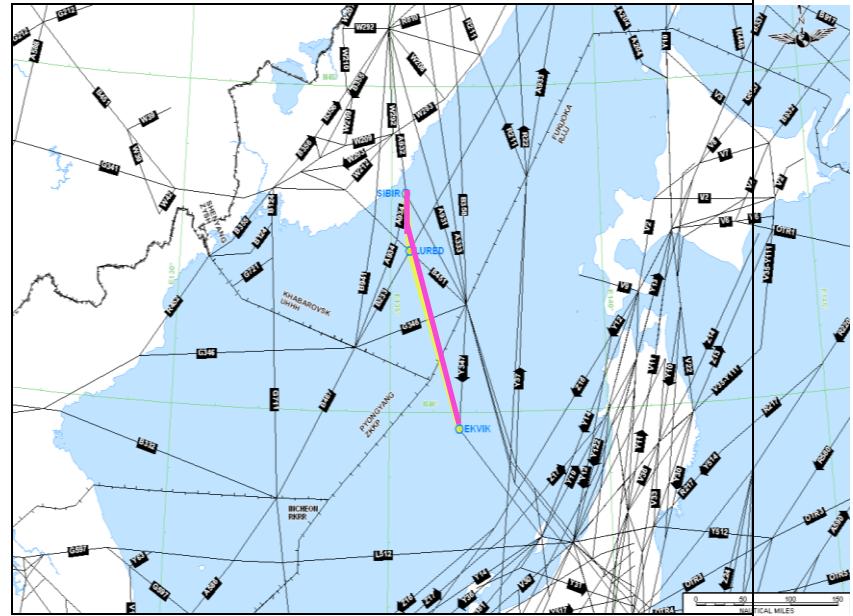
ENTRY/EXIT POINT

ROUTE DESCRIPTION
bidirectional ATS route **SIBIR**

- LURED - EKVIK.

FLIGHT LEVEL BAND**PRIORITY:****States concerned**

JAPAN
RUSSIAN FEDERATION

CHART

Action Required	IATA
	ICAO

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

Russian Federation: New waypoint needed 404751N1361021E (FIR Boundary), coordination with Japan (Fukuoka FIR) required.

Alternative bi-directional route to EN15. Implementation planned for 2Q 2013.

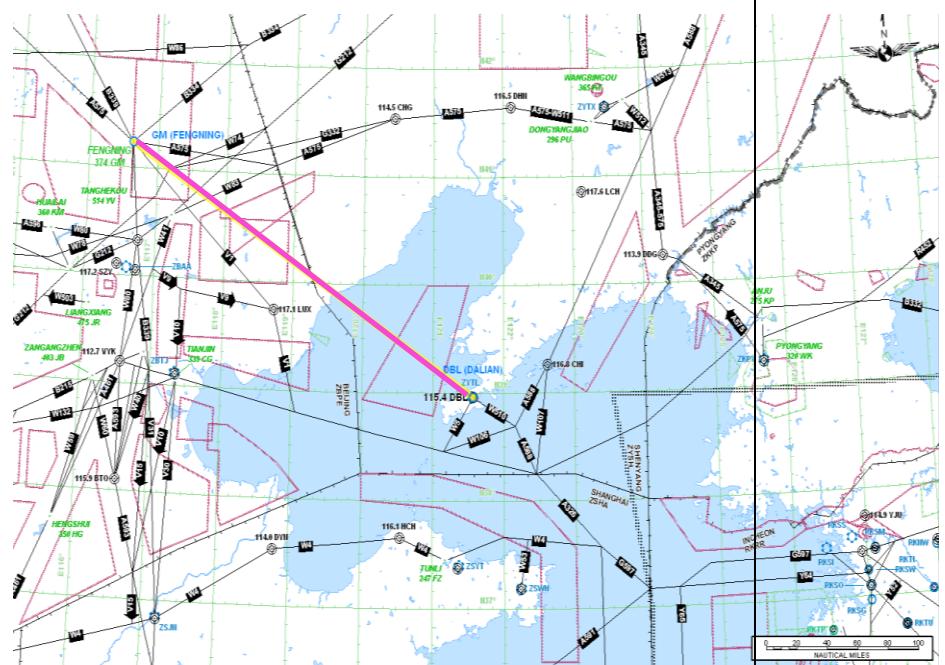
Objective:

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

ATS ROUTE NAME: CHA13
REQUESTED BY: IATA

ENTRY/EXIT POINT

ROUTE DESCRIPTION
FLIGHT LEVEL BAND
GM - DBL.
PRIORITY:

States concerned**CHINA****CHART**

Action Required	IATA
	ICAO

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

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

China: Further discussions required via ICAO APAC Office.

Objective:

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

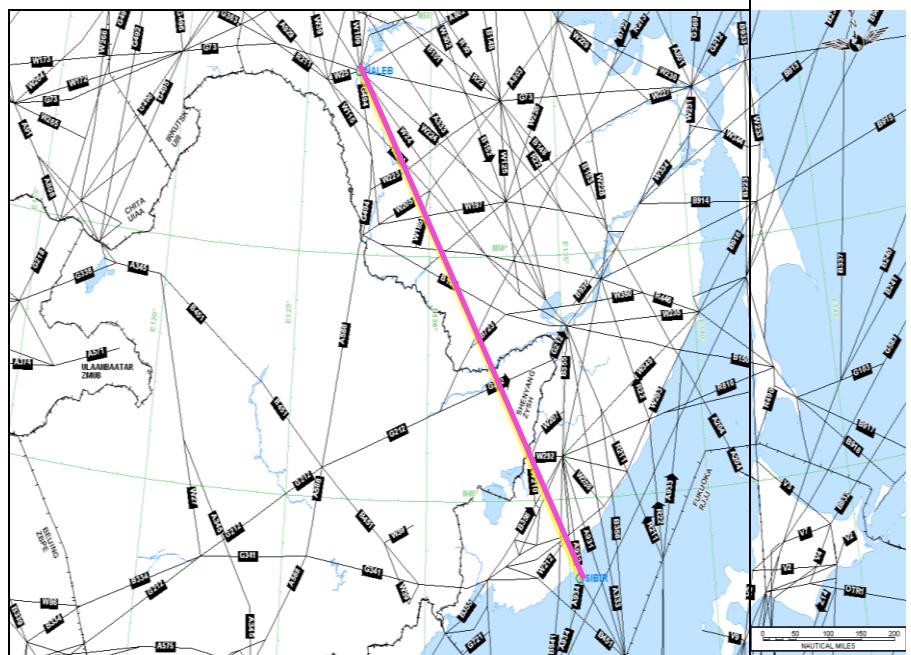
ATS ROUTE NAME: RUS 6
REQUESTED BY: IATA

ENTRY/EXIT POINT

ROUTE DESCRIPTION
FLIGHT LEVEL BAND
NALEB - SIBIR.
PRIORITY:

States concerned

CHINA
RUSSIAN FEDERATION

CHART

Action Required	IATA
	ICAO

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

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

Objective:

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

**ATS ROUTE NAME: RUS 7
REQUESTED BY: IATA**

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

FLIGHT LEVEL BAND

PRIORITY:

States concerned

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

Action Required	IATA
	ICAO

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

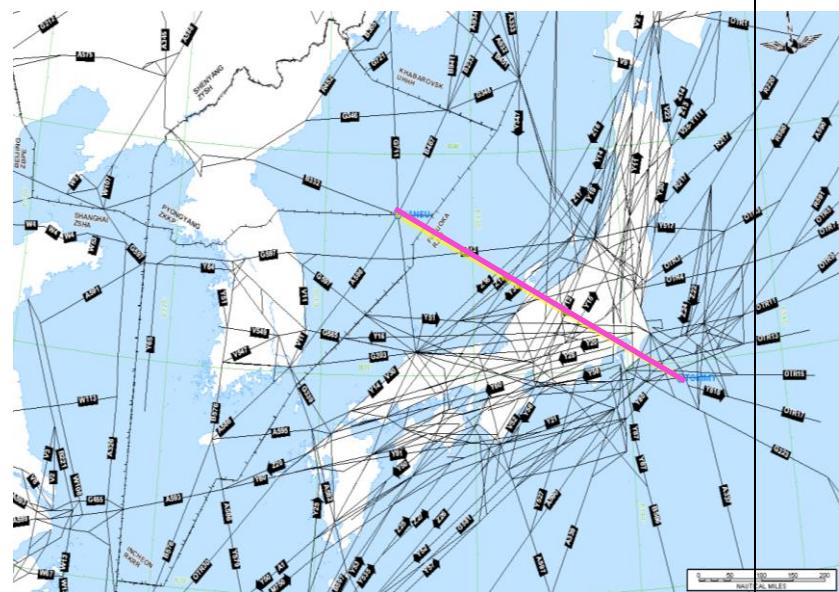
Part of IATA EUR-North Asia package - #EN9.

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	CHART
ROUTE DESCRIPTION	
RITEK- new waypoint 495025N 1182854E - HLD	
FLIGHT LEVEL BAND	
PRIORITY:	
States concerned	
CHINA RUSSIAN FEDERATION	

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).

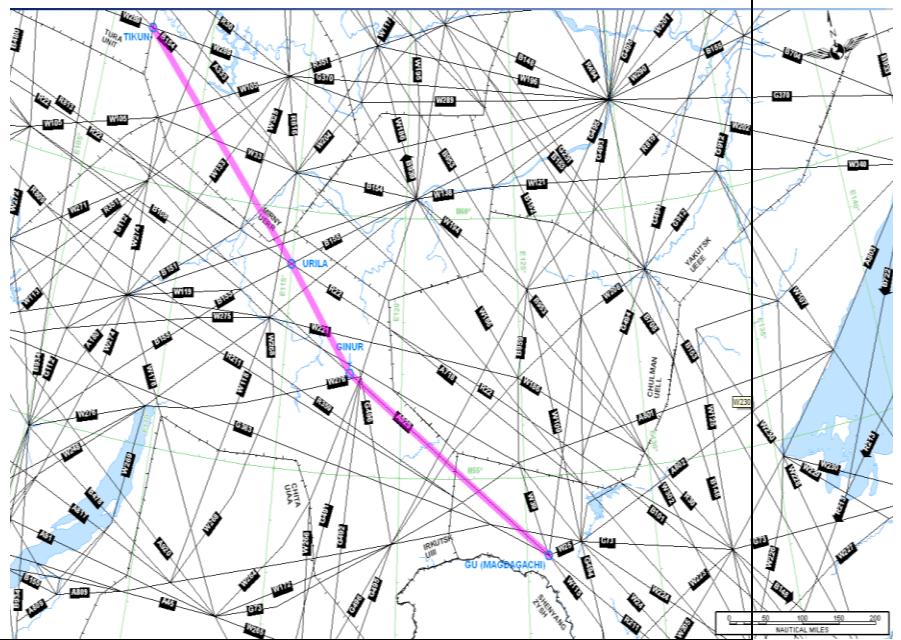
Objective:

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**ROUTE DESCRIPTION**

TIKUN - URILA - GINUR - GU.

FLIGHT LEVEL BAND**PRIORITY:****States concerned**CHINA
RUSSIAN FEDERATION**CHART**

Action Required	IATA
	ICAO

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

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

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

Russian Federation: Further studies/discussion required.

Objective:

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

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

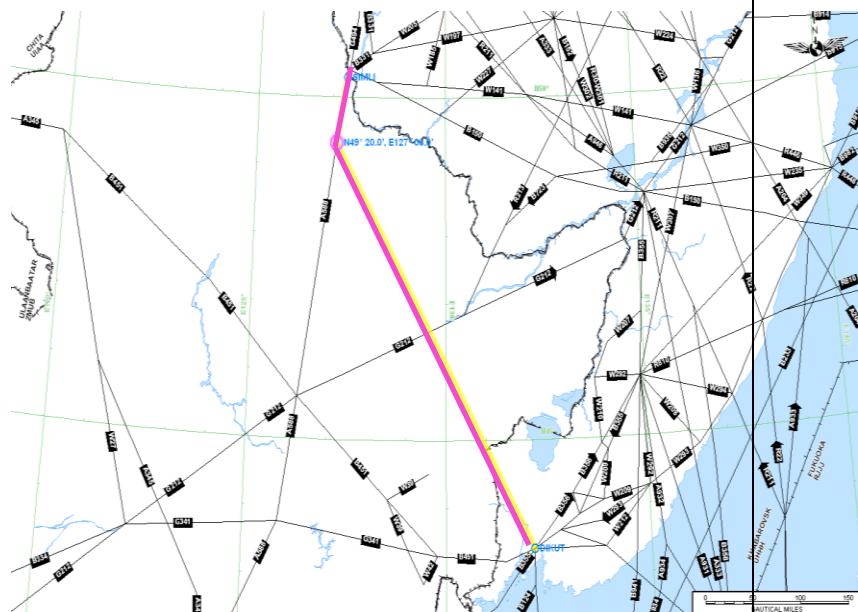
ENTRY/EXIT POINT

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

FLIGHT LEVEL BAND**PRIORITY:**

States concerned

CHINA
RUSSIAN FEDERATION

CHART

Action Required	IATA
	ICAO

Saving	Per flight	Annual
Mileage / Time		
Fuel		
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	CHART
ROUTE DESCRIPTION	
FLIGHT LEVEL BAND	
PRIORITY:	
States concerned	
CHINA DEM. PEOPLE'S REP. OF KOREA RUSSIAN FEDERATION	

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	CHART
<p>ROUTE DESCRIPTION</p> <p>unidirectional Eastbound route SIMLI - HEK - 492000N 12706E - LEPNI - 422624.7N 1294454.7E - KANSU</p> <p>FLIGHT LEVEL BAND</p> <p>PRIORITY:</p> <p>States concerned</p> <p>CHINA DEM. PEOPLE'S REP. OF KOREA RUSSIAN FEDERATION</p>	

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****CO₂****No_x***Alternative bi-directional route***Objective:**

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

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

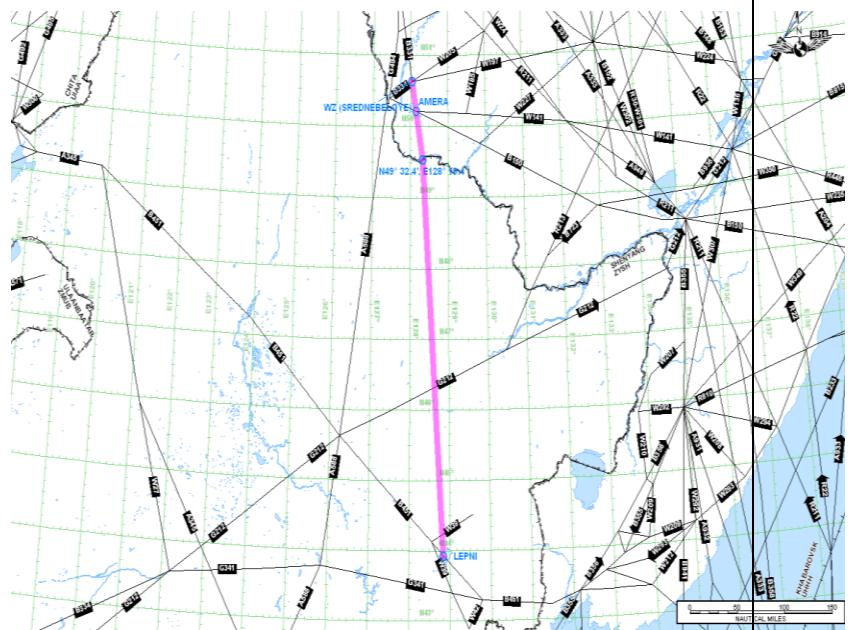
ENTRY/EXIT POINT**ROUTE DESCRIPTION**

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

FLIGHT LEVEL BAND**PRIORITY:**

States concerned

CHINA
 RUSSIAN FEDERATION

CHART**Action Required**

IATA

ICAO

Saving

Per flight

Annual

Mileage / Time

Fuel

CO₂

No_x

Further studies/coordination required. Updates will be given