INTERNATIONAL CIVIL AVIATION ORGANIZATION



ASIA/PACIFIC REGION ATS ROUTE CATALOGUE

Version 25.1

December 2025

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Foreword

- 1.1 The Air Navigation Plan Asia and Pacific Regions (Doc 9673) has been superseded, in electronic form by the electronic Air Navigation Plan (eANP), which contains a table of regional ATS routes in Volume II (Table ATM II- APAC- 1 Asia and Pacific Regions ATS Routes).
- 1.2 The Fourteenth Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/14, August 2004) under Conclusion 14/5 established the ATS Route Network Review Task Force (ARNR/TF) to review the Asia and Pacific ATS route network to determine present and future route requirements. 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 Region ATS Route Catalogue.
- 1.3 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 Asia/Pacific Region ATS Route Catalogue under Decision 16/9. The ATS Route Catalogue is intended to be a living document, supplementing the eANP and maintained by the ICAO Asia and Pacific (APAC) Regional Sub-Office on behalf of the ICAO Asia and Pacific Office. Communication related to the ATS Route Catalogue should be made via email to apac-rso@icao.int.
- 1.4 A Contracting State or qualifying International Organization identifying a need for a new route requirement to be included in the eANP or to change an existing route contained in the eANP, may submit an amendment proposal to the ICAO APAC Regional Office in accordance with established procedures summarized below and the template provided on the ICAO APAC website.
- 1.5 Appropriately presented and documented proposals to amend the eANP are submitted to the ICAO Secretary General through the Regional Office and circulated to States and International Organizations for comment. If, in reply to the ICAO Regional Office's inquiry, no objection is raised to the proposal by a specified date, it will be deemed that a regional agreement (involving the relevant PIRG) on the subject has been reached. The Regional Office will inform States and International Organizations concerned of the approval and the eANP will be amended accordingly.
- 1.6 If, in reply to the ICAO Regional Office's inquiry, any objection is raised, and if objection remains after further consultation, the matter will be documented for discussion by APANPIRG and, ultimately for formal consideration by the Air Navigation Commission, if it remains unresolved. If the Commission concludes that the amendment is acceptable in its original or other form, it will present appropriate recommendations to the Council.
- 1.7 The APAC Regional Sub-Office, which is responsible for maintaining the ATS Route Catalogue, will update the *ATS 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. The *Asia/Pacific Region ATS Route Catalogue* is posted on the ICAO APAC website at (https://www.icao.int/APAC/apac-electronic-documents).
- 1.8 The Asia/Pacific Region ATS Route Catalogue is now as follows: Chapter 1: South Asia; Chapter 2: Southeast Asia; Chapter 3: East Asia; Chapter 4: Trans-Regional (South Asia); Chapter 5: Trans-Regional (East Asia); Chapter 6: Trans-Regional (Mid Asia); and Chapter 7: Pacific.

- 1.9 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 Asia/Pacific Region ATS Route Catalogue by the Regional Office. The APAC Regional Office or Regional Sub-Office will periodically present to appropriate ATM coordination groups or other suitable bodies the proposals within their geographical area of interest for review.
- 1.10 The *Asia/Pacific Region ATS Route Catalogue* contained proposals for route changes that had not yet been agreed and implemented.
- 1.11 States in APAC were required to reclassify the routes as:
 - Priority A Short Term i.e. it could be implemented within 12 months;
 - Priority B Medium Term i.e. it could be implemented within 13 to 36 months;
 - Priority C Long term i.e. more than 36 months; and
 - Priority D Cannot be implemented (reasons to be provided).

As some States were not represented, these routes were classified as Priority C and will be updated when more information becomes available.

- 1.12 IATA has also prioritised the routes in terms of efficiency and environmental benefits as:
 - HIGH one of top priorities for airlines; or
 - MEDIUM has significant benefits but can wait until high priority proposals are implemented; or
 - LOW the route proposal may be deleted if the State cannot implement within 36 months.
- 1.13 After review, the *Asia/Pacific Region ATS Route Catalogue* may be updated by:
 - deletion of the proposal when the proposal has been agreed and entered into the eANP; or
 - deletion of the proposal when it has been decided that there is no possibility of implementation in the foreseeable future [i.e.: the proposal has had <u>no</u> progress in the past five years, or it is a Priority C or D (more than 36 months) by States and is assigned a LOW priority by IATA]; or
 - amendment with the addition of supplementary information; or
 - addition of a new ATS route proposal.

Amendment Record

Version	Date	Amended by	Comments
0.1	14 February 2005	-	ARNR/TF/2 developed draft version.
0.2	5 May 2005	ARNR/TF/3	Finalized format following contribution from members.
0.3	29 July 2005	ATM/AIS/SAR/SG/15	Sub-Group concluded 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 trans-regional proposals.
14	September 2015	SAIOACG/SEACG, ATM/SG APANPIRG/26	Removal of Chapter A (BANP routes).
15	September 2016	SAIOACG/SEACG, ATM/SG APANPIRG/27	Reviewed and updated the Catalogue.
16	August 2017	SAIOACG/SEACG, ATM/SG	Reviewed and updated the Catalogue.
17	September 2018	SAIOACG/SEACG, ATM/SG	Reviewed and updated the Catalogue, incorporated IATA inputs, added State and IATA priority label.
18	April 2019	SAIOACG/9, SEACG/26	Reviewed and updated the Catalogue.
19	September 2019	ATMSG/7, AIRARD TF/4	Reviewed and updated the Catalogue.
20	December 2020	ATMSG/8	Reviewed and updated the Catalogue.

21	November 2021	SAIOACG/10,	Reviewed and updated the Catalogue.
		SEACG/27,	
		ATM/SG/9,	
	March 2022,	SAIOSEACG/1,	
	October 2022	ATM/SG/10	
	December	BOBTFRG/4	
22	March 2023	SAIOSEACG/2	Reviewed and updated the Catalogue.
	July 2023	SCSTFRG/11	
23	October 2023	ATMSG/11	Reviewed and updated the Catalogue.
	December 2023	BOBTFRG/5	
	April 2024	SAIOSEACG/3	
24	September 2024	ATMSG/12	Reviewed and updated the Catalogue.
	November 2024	SCSTFRG/12	
	November 2024	BOBTFRG/6	
25	March 2025	SAIOSEACG/4	Reviewed and updated the Catalogue,
	July 2025	SCSTFRG/13	including new Chapter 6 on Trans-
		ATM/SG/13	Regional (Mid Asia), new ATS route
			proposals (MEKONG 02, MEKONG 03
			and BOB 03), and added States and
			IATA proposals and feedback.
25.1	December 2025	BOBTFRG/7	Reviewed and updated the Catalogue.

Chapter 1: South Asia

(referred to States, SAIOSEACG and BOBTFRG for review)

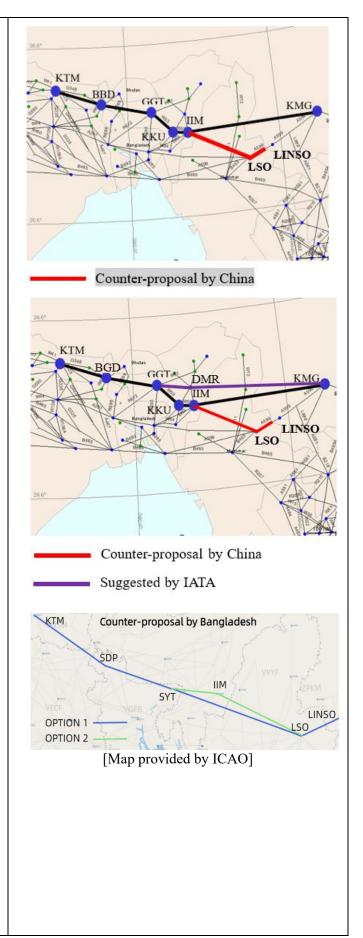
ATS Route Name	HIMALAYA 02
State Priority	D
IATA Priority	HIGH
Requested by (when)	Nepal (01/09/2018)
States/Administrations Involved	Nepal, India, Myanmar, China (Kathmandu, Kolkata,
	Yangon, Kunming FIRs)
Route Description	Kathmandu (KTM) 2740.5N 08521.0E –Bagdogra
210 acc 2 0802 4 0302	(BGD) 264118N 0881934E – Guwahati (GGT)
	2606.1N 09135.3E – Silchar (KKU) 2454.8N
	09258.9E – Imphal (IIM) 2446.0N 09354.5E –
	Kunming (KMG) 2501N 10244E
	Alternate proposal by IATA:
	Kathmandu (KTM) 2740.5N 08521.0E – Bagdogra
	(BGD) 264118N 0881934E – Guwahati (GGT)
	2606.1N 09135.3E – Dimapur (DMR) 255251.30N
	0934655.29E – Kunming (KMG) 2501N 10244E
Flight Level Band	<u> </u>
Benefit (fuel, environmental)	110 NM / 15 minutes, 520 kg fuel, 1640 kg CO ₂ per
, , , , , , , , , , , , , , , , , , ,	flight
	Potential to save 19 to 25 minutes per flight and assist
	in decongesting A599/Lashio.
Operational Information	
(potential airlines, flight frequency,	
potential city pairs)	
Remarks: IATA North Asia Office	
approached China who have indicated this	300°
route will be considered as part of the	
overall China route review – no timeline	KTM GSta
was given. China advised that they would	BBD GGT
seriously look at the proposal and would	JIIM JIIM
coordinate with Nepal (ref. para 8.4 of the	RKU KKU
SEA-RR/TF/4 report).	Bangladen Mos 5
A + C A I O A C C / 0 : 41 + 41 - :	8405 850 B165
At SAIOACG/9: with the improvement of	8465 B465
surveillance capability, Myanmar would	\$ 1 m
review this proposal.	20.0"
At ATMSG/7: Under consideration by	
China; and Myanmar commented this	
route proposal would be dependent on the	
enhancement of surveillance and	
communication coverage in the area.	
26/09/2020: Nepal updated this route	
proposal was under discussion with	
Myanmar, and they were optimistic that	
communication and surveillance	
capabilities would be available in Yangon	
FIR in the near future to support the	
implementation of this route. 20/11/2020:	
China commented that it was not possible	
to establish a new entry/exit point, and	
counter-proposed to re-align IIM – LSO –	

LINSO (existing entry/exit point between Yangon and Kunming FIRs). At

ATM/SG/8: In response to China's counter-proposal, Myanmar provided their disagreement; and India commented the existing established routes in Kolkata FIR (i.e. W137, W53 and W55) was for domestic operations only, and India would need to review the possibility of opening these routes for international operations. India also suggested that in light of this, and the delay of more than nine years and the positions of Myanmar and China, Nepal may wish to consider a new proposal.

At ATM/SG/9: IATA commented that based on detailed re-assessment conducted by airlines, it confirmed a 'HIGH' priority to HIMALAYA 02. In addition, IATA suggested an alternate proposal which had potential to save up to 19 to 25 minutes, and would also help to decongest ATS route A599/Lashio (LSO) and save additional 88 NM compared with IIM – LSO – LINSO route. IATA also requested India to consider keeping ATS route J7 (CDR2/3 route between GGT – DMR) available based on traffic demand timings. Nepal supported the alternate proposal as suggested by IATA, and would coordinate and hold a consultation meeting with the various stakeholders. China commented that it was not possible to establish a new entry/exit point.

At BOBTFRG/3: Myanmar supported the proposal by IATA; India expressed its concern in getting a favourable response from its military authorities for the route between Guwahati (GGT) – Dimapur (DMR) – Kunming (KMG). According to India, implementing the route from Imphal (IIM) to Kunming (KMG) was more feasible. Given the fact that China had revised the priority as "D", IATA was requested to consider the position of China before pursuing the proposal; and Bangladesh suggested IATA to consider: Kathmandu (KTM) – Saidpur (SDP) – Silchar (KKU) – Imphal (IIM) – Kunming (KMG).



27/1/2022: Nepal is having in-house discussion and consultation with different stakeholders and planning to coordinate with the affected States soon.

1/3/2022: IATA may request that China explores possibility in near future of opening up additional entry/exit as this has direct savings to flights from Nepal and China.

3/3/2022: China commented there is no status update.

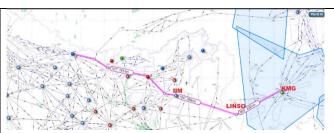
In August 2022, China commented that there was no plan to establish a new entry/exit point and suggested considering the route proposal based on the current existing entry/exit point LINSO.

At BOBTFRG/4: Noting that with the upgradation of Bangladesh's CNS/ATM system, full coverage of communication in Dhaka FIR would be available shortly, so taking consideration of China's counter-proposal, Bangladesh proposed two route options as: Kathmandu (KTM)-Saidpur (SDP)-SYT-LSO or,Kathmandu (KTM)- Saidpur (SDP)-SYT- Imphal (IIM)-LSO. India commented that further meaningful discussion of this proposal should be based on the basic agreement between China and Myanmar.

Before SAIOSEACG/2: Nepal implied that they would like to insist on their initial proposal if IATA's proposal is not acceptable and pointed out that Nepal would put further efforts to discuss with the Chinese Authority to see the further possibilities without deviating much from the initial proposal.

At SAIOSEACG/2:

- a) Nepal reiterated that they would like to retain their initial proposal if IATA's proposal is not acceptable and pointed out that Nepal would put further efforts into discussing with the relevant States to see the further possibilities without deviating much from the initial proposal. IATA supported.
- b) Considering the divergence on the segment, in terms of FMS load for track change from KTM to KMG, Bangladesh



HIMALAYA 02 as New Proposal by Nepal

requested IATA to reconsider their proposal for the segment from: Kathmandu (KTM)- Saidpur (SDP)-SYT- Imphal (IIM).

- c) Myanmar stated they did not agree with the road segment from IIM LSO LINSO.
- d) China commented that there was no plan to establish a new entry/exit point so far.
- e) Given that the situation had not changed for more than 15 years, India suggested Nepal re-evaluate this proposal. In response, Nepal stated that they would re-evaluate the proposal, and if there would be a possibility for modification, they would present a working paper accordingly in the next appropriate ICAO forum.

At ATMSG/11: Nepal suggested that the Hymalaya 02 route should remain in this catalogue. In response, the ICAO APAC RSO will continueously discuss it within the ATS route catalogue.

At SAIOSEACG/3: Nepal emphasised that the HIMALAYA 02 route potential to enhance economic viability and environmental sustainability for air travel. India stated that since domestic routes are involved, it has to review international operations on these routes. It also stated that this route passes through military areas, for which discussion with military authority is required. India also suggested that Nepal's route may be finalised and discussed with Myanmar (an important stakeholder) first before consideration by other concerned states. Bangladesh suggested Nepal to consider their proposal for the segment from Kathmandu (KTM) - Saidpur (SDP) - SYT - Imphal (IIM). The meeting recognised that further meaningful discussion of this proposal should be based on the basics of Myanmar's presence. In this connection, Nepal agreed to refine the route proposal taking into consideration of comments from Bangladesh and China and requested ICAO to set up a coordination meeting that involved all stakeholders, including Myanmar, for necessary discussion on the matter. At the side meeting, China and Nepal reviewed all four proposed schemes for this route proposal and particularly discussed the fourth scheme (i.e. IIM-LINSO) in depth. China acknowledged about using the existing entry/exit FIR boundary point, etc. Nepal agreed to consider these technical concerns further. Both China and Nepal agreed that they would continue to maintain close contact on this proposal via ICAO APAC RSO.

Before the SAIOSEACG/4: Nepal updated through email that they wish to keep it in this ATS route catalogue with high priority. Nepal said that this route will be crucial to achieve the strategic objectives of ICAO. IATA also has given this route high priority.

At BOBTFRG/7: IATA expressed its support of the HIMALAYA 02 proposal and expects clear operational benefits for flights operating from Nepal to more distant FIRs.

ATC D A N	IND OF AIOSE E
ATS Route Name	IND 07 (N877 Extension)
State Priority	D MEDIUM
IATA Priority	
Requested by (when)	IATA (01/09/2018)
States/Administrations Involved	India, Pakistan, Afghanistan (Mumbai, Delhi, Karachi, Kabul FIRs)
Route Description	Pratagarh (PRA) 2401.8N 07445.0E – SERKA
	2951.0N 06615.0E – SOKAM 3313.3N 06037.9E
Flight Level Band	28,000 - 46,000 ft
Benefit (fuel, environmental)	51 NM / 7 minutes, 835 kg fuel, 2,630 kg CO ₂ per flight, 3,387 tonnes fuel, 10,668 tonnes CO ₂ annually
Operational Information	LH, KL
(potential airlines, flight frequency,	KUL/SIN – Middle East – East/Europe
potential city pairs)	
Remarks: This proposal predates the extension of UL333 through Kabul FIR and has been under consideration for a number of years. The extension of UL333 is under utilised against other Kabul routes largely due the 45 NM 'penalty' in track mileage the current route structure requires. The route's primary benefit at this stage will be westbound and during BOBCAT traffic flow. Extension completed SERKA to SOKAM. Update 08/02/13: PRA – SERKA has been approved by India after lengthy consultation with the military, complementary action from Pakistan awaited.	SOKAM SERKA PRA
At SAIOACG/9: Pakistan commented this route proposal was very unlikely to be implemented. Future of this route would be decided at SAIOACG/10 in 2020. Update from India on 02/08/2019: Since the proposal is pending concurrence of Pakistan for a long time, India need to renegotiate the proposal with military after comments from Pakistan. 17/08/2020: The designated established	
military areas in Karachi FIR and route structure (crosser routes near the boundary with Delhi and Kabul FIRs) does not allow the establishment of this route. Pakistan proposed for deletion. At ATMSG/8: IATA preferred this route	
proposal to be retained in the Catalogue. At BOBTFRG/3: Pakistan re-affirmed that the designated established military areas in Karachi FIR and route structure	

(crossing routes near the boundary with
Delhi and Kabul FIRs) would not permit
the establishment of this route.
1/3/2022: IATA wants this proposal to be
archived and reintroduced if/when future
possibilities permit its success.

At BOBTFRG/4: Pakistan reaffirmed that the proposed route was not feasible and supported archiving this proposal for future possibility, and IATA had no objection.



ATS Route Name	BOB 01
State Priority	
IATA Priority	HIGH
Requested by (when)	IATA (05/11/2021: ATM/SG/9)
States/Administrations Involved	India, Bangladesh, Myanmar (Chennai, Kolkata,
	Dhaka, Yangon FIRs)
Route Description	Option 1: SUGAN 152500N 0825045E – New
	Waypoint 192600N 0920000E (FIR BDRY between
	Kolkata and Yangon) – Sittwe (STW) – Mandalay
	(MDY)
	Option 2: Vishakhapatnam (VVZ) 174003.90N
	0831510.00E – RUMUN 185805N 0891420E – New
	Waypoint 192600N 0920000E (FIR BDRY between
	Kolkata and Yangon) – Sittwe (STW) – Mandalay
	(MDY)
	Counter proposal by India:
	Fastbound: Q10 - TATUX - DOPID - MDY.
	Westbound: MDY - DOPID - KAGUL - Q11.
	Counter proposal by Bangladesh:
	TATUX-DOPID-Cox's Bazar -CHILA-A599- LSO-
	LINSO
Flight Level Band	All suitable bi-directional flight levels. Else, at least
	suitable eastbound flight levels. (airline operators
	preferred flight level would be FL330 as primary and
	FL310 as secondary)
Benefit (fuel, environmental)	Option 1:
	Narrow body fleet: 94 NM / 12 minutes, 456 kg fuel,
	1.5 tonnes CO ₂ per flight, 166 tonnes fuel, 548 tonnes
	CO ₂ annually Wide body fleet: 94 NM / 12 minutes, 900 kg fuel, 3.0
	tonnes CO ₂ per flight, 329 tonnes fuel, 1095 tonnes
	CO ₂ annually
	_ ,
	Option 2:
	Narrow body fleet: 71 NM / 9 minutes, 344 kg fuel,
	1.1 tonnes CO ₂ per flight, 126 tonnes fuel, 402 tonnes
	CO ₂ annually
	Wide body fleet: 71 NM / 9 minutes, 679 kg fuel, 2.2
	tonnes CO ₂ per flight, 248 tonnes fuel, 803 tonnes CO ₂
On anational Information	annually About 110 flights many years
Operational Information	About 110 flights per week
(potential airlines, flight frequency, potential city pairs)	Africa/South Asia – Far East, Southern India – East Coast of the United States
potential city pairs)	Coast of the Officer States

Remarks: The proposed routes would efficiently connect South West Bay of Bengal traffic and Far East. At BOBTFRG/3: In order to conduct better assessment, India requested IATA to provide the analysis of the fleet equipage in ADS-C/CPDLC and PBCS. IATA provided its analysis result on fleet readiness of its members in the SAIOSEACG/1 meeting (Mar. 2022).

On 8/8/2022: India in its assessment on BOB01 & BOB02 commented the proposed routes are outside the SUR and VHF coverage imposing unnecessary restrictions for all other cross-cutting routes. Therefore proposed alternatives as below:

Eastbound aircraft via Q10: TATUX DOPID – MDY.

Westbound aircraft: MDY – DOPID KAGUL – Q11.

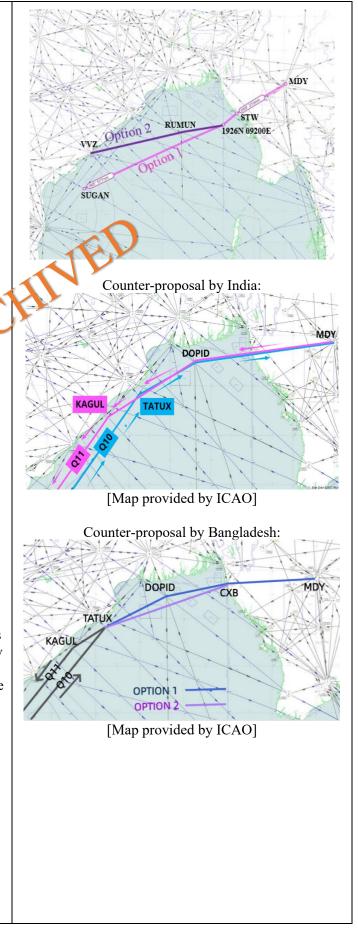
India stated this would improve the availability of getting optimum flight levels (well covered by SUR and VHF in Kolkata FIR) and require the approval of Bangladesh and Myanmar.

ATMSG/10: Bangladesh commented that India's counter-proposal overflies the designated established military areas, so Bangladesh needs to consult with the military authorities.

BOBTFRG/4: Bangladesh noted that the consultation with the military authority was still under process. To avoid the Danger area, two more alternative options are proposed with a connection to the new DVOR (Cox's Bazar, CXB), which is under construction and would be available in three months, detailed as follow: DOPID – Cox's Bazar (CXB DVOR) – MDY or,

TATUX – Cox's Bazar (CXB DVOR) – MDY.

In response to Bangladesh's counterproposal, IATA suggested specifying a new waypoint at the position of Cox's Bazar instead of waiting for the availability of the new DVOR and proposed the following route connecting Cox Bazar-APAGO-CHILA and onwards joining ATS Route A599:



TATUX-DOPID-Cox's Bazar -APAGO-CHILA-A599- LSO-LINSO

Before SAIOSEACG/2, all stakeholders had extensive discussion on the BOB01. IATA affirmed its proposal:

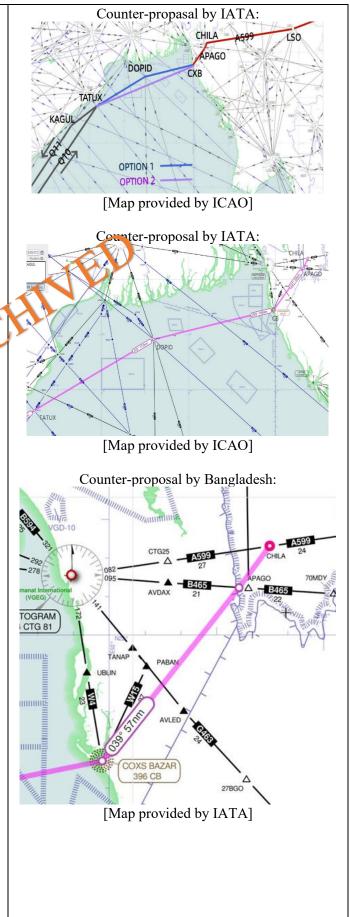
A599 – CHILA - APAGO – CB (Coxs Bazar) – DOPID – TATUX - KAGUL O11.

Bangladesh suggested to skip the waypoint "APAGO".

At SAIOSEACG/2:

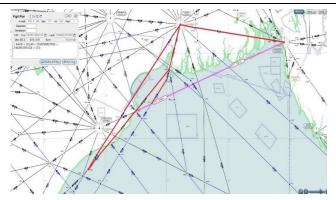
- a) India and IATA had no objection to Bangladesh's counter-proposal in principle.
- b) In response to India's concern about the handover separation, Bangladesh confirmed that they could accept the transfer separation from Yangon FR.
- c) Myanmar suggested to consider
 Bangladesh's counter proposal: A599 –
 CHILA–CB (Coxs Bazar) DOPID –
 TATUX KAGUL Q11, and pointed out
 that the optimization of the FLAS
 operation was the major issue which
 needed to be addressed before the
 establishment of the new route.
- d) Bangladesh suggested the resolution on the new route would be finalized considering the revision of LOA between Bangladesh-India and Bangladesh-Myanmar.
- e) IATA suggested Bangladesh and India to consider an interim solution making BOB 01 an Eastbound airway, establishing eastbound air traffic on present A599 and B465 airways before entering into Yangon FIR; till the time Myanmar raised FLAS issues are sorted out, then enabling BOB01 for Westbound flights.

After SAIOSEACG/2: ICAO RSO hosted a special coordination meeting (Video Teleconference, 11 May 2023), involving Bangladesh, India and IATA. The Special coordination meeting formally agreed to establish the BOB01 Route proposal connecting SURUP - KAKID – GOLAN - (WPT1) - (WPT 2) - Chattogram (CTG). This bi-directional route option saves about 55NM, expected to benefit about 110 weekly flights.



At BOBTFGR/5: discussion highlighted the near-finalization of new route proposals involving Bangladesh and India. The meeting was informed that the Route designator has been approved as P632. The need for a formal safety assessment process for the proposed routes was emphasized. Bangladesh and India indicated their commitment to finalizing the necessary safety assessments, including participation from ICAO for supervisory guidance. Participants expressed hope that the proposed amendments to the routes would be promulgated in the first quarter of 2024, subject to the completion of safety assessments.

At SAIOSEACG/3: Bangladesh and India presented the update of establishing BCB 01 route. It was intimated that Bangladesh and India have already conducted a safety assessment in the second week of April. The PfA had already been submitted to the ICAO APAC office. Following the approval of PfA by the ICAO Office and the signing of the LoA by both states, the ATS route shall be promulgated by both countries, which will be a part of a regional network of ATS Routes.



Formally agreed BOB01 Route Proposal (Pink line – Agreed Direct Route, Red lines – Present routes.

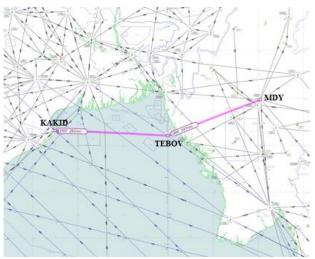
ATS Route Name	BOB 02
State Priority	
IATA Priority	HIGH
Requested by (when)	IATA (05/11/2021: ATM/SG/9)
States/Administrations Involved	India, Bangladesh, Myanmar (Kolkata, Yangon FIRs)
Route Description	KAKID 203833N 0865951E – TEBOV 202504N
	0915949E – Mandalay (MDY)
	Counter proposal by India:
	Eastbound: Q10 - TATUX - DOPID - MDY.
	Westbound: MDY - DOPID - KAGUL - Q11.
Flight Level Band	All suitable flight levels
Benefit (fuel, environmental)	Narrow body fleet: 50 NM / 6 minutes, 228 kg fuel,
	750 kg CO ₂ per flight, 83 tonnes fuel, 274 tonnes CO ₂
	annually
	Wide body fleen 50 NM / 6 minutes, 450 kg fuel, 1.5
	tonnes CO ₂ per flight, 164 tonnes fuel, 548 tonnes CO ₂
	enn tally
Operational Information	At our 110 flights per week
(potential airlines, flight frequency,	Africa/South Asia – Far East, Southern India – East
potential city pairs)	Coast of the United States
Remarks. The proposed route you I not	NIZATE TO TOP A TO

Remarks: The proposed route would not only provide efficient connection over Bay of Bengal, but it would also help in de-congesting ATS routes A791, B465, Q19 and Q20. At BOBTFRG/3: In order to conduct better assessment, India requested IATA to provide the analysis of the fleet equipage in ADS-C/CPDLC and PBCS.

08/08/2022: India in its assessment on BOB01 & BOB02 commented the proposed routes are outside the SUR and VHF coverage imposing unnecessary restrictions for all other cross-cutting routes. Therefore proposed alternatives as below: Eastbound aircraft via Q10: TATUX - DOPID - MDY. Westbound aircraft: MDY - DOPID - KAGUL - Q11. India stated this would improve the availability of getting optimum flight levels (well covered by SUR and VHF in Kolkata FIR) and require the approval of Bangladesh and Myanmar.

ATMSG/10: Bangladesh commented that India's counter-proposal overflies the designated established military areas, so Bangladesh needs to consult with the military authorities.

16/11/2022: In response to India's concerns about SUR and VHF coverage,



Counter-proposal by India vs original proposal by IATA:



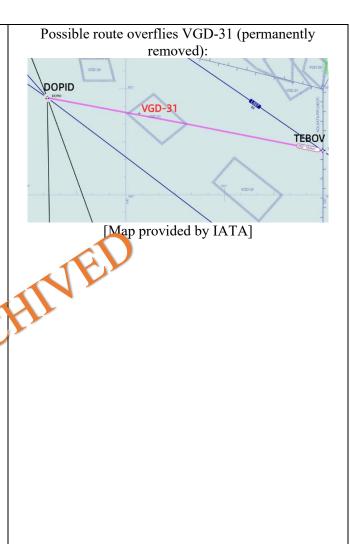
[Map provided by ICAO]

IATA suggested that with the issuing of the ADS/C &CPDLC mandate, PBCS-equipped aircraft could operate on this proposed route. Regarding the military area, IATA pointed out that the danger area VGD-31 was permanently removed; thus, the possible route connecting DOPID (India proposed waypoint)-TEBOV is not affected by the consequent restrictions(see the Map provided by IATA). Considering the complexity of this airspace, IATA preferred this route to be retained separately and discussed in tandem with BOB01.

At BOBTFRG/4: Considering the complexity and constraints in the area, Bangladesh and India wanted to focus on Bangladesh's counter-proposes for BOR 01 in the first place. Since the SWG has prioritised the BOB01 as the primary task, it was proposed by IATA that BOB 02 to be archived for future possibility.

At SAIOSEACG/2: agreed that BOB02 be retained in the route catalogue.

At BOBTFGR/5: there was a consensus to move the BOB 02 route proposal into archives since the BOB 01 route has reached it's final stages of implementation. IATA, Bangladesh, and India agreed with this decision.



ATS Route Name	BOB 03
State Priority	В
IATA Priority	HIGH/MEDIUM/LOW (Need IATA assessment)
Requested by (when)	Myanmar and Thailand (November 2024)
States/Administrations Involved	Myanmar and Thailand (Yangon and Bangkok FIRs)
Route Description	Route 1: BKK (1353.61N 10035.78E) – HORIN – New POXEM – PTN (1648.78N 9446.78E) Route 2: BKK (1353.61N 10035.78E) – GOBAP – DAMIM – PUMEK (1528.64N 9748.61E) – BGO (1719.11N 9631.20E)
Flight Level Band	,
Benefit (fuel, environmental)	Further optimize air traffic flows from Europe, South Asia and Middle East to continental Southeast Asia operating through Myanmar and Thailand airspace
Operational Information	(Need information from IATA)
(potential airlines, flight frequency,	
potential city pairs)	
Remarks: At SIOSEACG/4: this proposal is newly incorporated. Concerned States are realigning of N895/P646 between PTN – BKK and designating as bi-directional route for overflight traffic and G463 between BGO-BKK, and designating it a uni-directional RNAV2/RNAV10 route serving eastbound PBN-capable traffic. BIMT Phase 2b (Myanmar – Thailand Route Development) aims to further optimize air traffic flows between Myanmar and Thailand. The route will be Performance-Based Navigation (PBN) (RNAV2 or RNAV10). Myanmar and Thailand agreed to continue implementation efforts during BIMT/8 (November 2024).	PTN BGO ASSI MANA S CAMPAN S
At BOBTFRG/7: Thailand informed that a bilateral meeting between Thailand and Myanmar was planned for the following week. The outcomes of the discussion would be reported at future regional meeting, such as SAIOSEACG/5.	

Chapter 2: Southeast Asia

(referred to States, SAIOSEACG and SCSTFRG for review)

ATS Route Name	MEKONG 01
State Priority	B
IATA Priority	MEDIUM
Requested by (when)	Thailand, Vietnam (21/03/2023)
States/Administrations Involved	Thailand, Lao PDR, Vietnam (Bangkok, Vientiane, Hanoi) Cambodia, Thailand, Lao PDR, Viet Nam (Phnom Penh FIR, Bangkok FIR, Vientiane FIR, Hanoi FIR)
Route Description	VINH PHUC (VPH) (211634N 1053604E) – BISON (2026.20N 10538.01E) – CB (1952.58N 10530.98E) – IDOTA (Ha Noi/Vientiane FIR Boundary) (1841.23N 1058.35E) – New Bangkok/Vientiane FIR Boundary (174842.10N 1042043.51E) – ROI-ET (ROT) (160700.59N 1034619.45E) – BIDEM (Bangkok/Phnom Penh FIR Boundary) (1423.06N 10347.27E) – REP (1321.62N 10413.42E) – PNH (1135.69N 10445.85E)
Flight Level Band	
Benefit (fuel, environmental)	Potential to save 12 minutes and 750 kilograms of fuel per flight (VVNB – VDSR)
Operational Information	Allow flights from Guangzhou FIR and beyond on
(potential airlines, flight frequency)	the ATS route R474 to fly shorter distance into Bangkok FIR (VTBS) and further South into Phnom Penh FIR (VDSA & VDPP)
Remarks: This route was proposed as Conditional Route (CDR) to promote international CDR arrangement among the Mekong states. The route availability will be subject to civil-military coordination in pretactical and tactical level. At SAIOSEACG/2: Viet Nam supported the initiative by Thailand, and added that the new route would be further realigned with the existing primary routes within Hanoi FIR. For the update, the approval procedure of the route proposal by its higher authority is in progress, and which expected to be completed soon. It is suggested that Thailand organize a tripartite meeting involving all States concerned to further discuss the detail. At SCSTFRG/12: Further information will be provided after Mekong-ATMCG meeting (27-28 November 2024).	VT D64 GND-UNL MON-FRI 2200-1700 174842_10N 1042243_51E
At SAIOSEACG/4: the relevant States agreed to the design principle of the ATS route to be implemented as an RNAV2 CDR with the MFA of FL 270 and would continue	Figure 1: VPH – ROT Route

with the MFA of FL270 and would continue with implementation planning in due course. Viet Nam and Thailand informed the meeting

of the following points through WP17 derived from MK-ATM/CG/10 meeting. Hanoi FIR, Viet Nam and Bangkok FIR, Thailand agreed to the design principle of ATS route serving traffic as Fig-2 between VPH – ROT – PNH to be implemented as an RNAV2 CDR with the MFA of FL270 and would continue with implementation planning in due course. Hanoi FIR (Viet Nam) and Bangkok FIR (Thailand) agreed to the design principle of ATS route serving traffic between VPH - ROT - PNH to be implemented as an RNAV 2 CDR with the MFA of FL270 as depicted Fig-3 and would continue with implementation planning in due course.

Thailand added remarks regarding the Fig-3 as follow: relevant States discussed the design of the route which had been altered to align with requirements within Hanoi FIR, Vientiane FIR, and Bangkok FIR as well as the route specification and Minimum Flight Altitude (MFA) for the route, at the MK-ATM/CG/10 (Nov 2024). It was agreed that the route would be designated an RNAV2 Conditional Route (CDR) with the minimum flight altitude of FL270. Moreover, the route was further extended into Phnom Penh FIR, connecting to Phnom Penh (VDPP) and Siem Reap (VDSA) by overlaying existing conventional route R345 (ROT – BIDEM – REP) and VD W1/Y13 (REP - PNH).

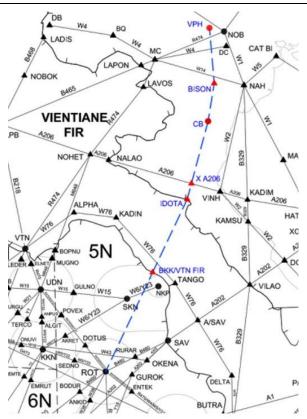
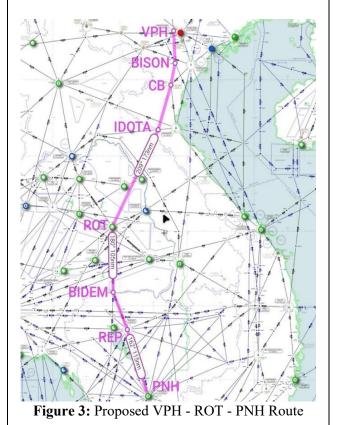


Figure 2: Proposed VPH - ROT Route



ATS Route Name	MEKONG 02 (NAN – SAGAG)
State Priority	В
IATA Priority	HIGH/MEDIUM/LOW (Need IATA assessment)
Requested by (when)	Lao PDR and Thailand (June 2024)
States/Administrations Involved	China, Lao PDR, Thailand (Kunming, Vientaine,
	Bangkok FIRs)
Route Description	NAN (1848.61N 10047.28E) – New
	Bangkok/Vientiane FIR Boundary (coordinate
	TBC) – SAGAG (2112.91N 10137.05E)
Flight Level Band	FL270 – FL460
Benefit (fuel, environmental)	Reduce NAN – SAGAG flight distance by 35 NM
Operational Information	FD, TG, MF, MU (Need further traffic count from
(potential airlines, flight frequency)	IATA)
Remarks: At SAIOSEACG/4: this proposal	1
was newly incorporated. The proposed route	7 73 3
were designed to enhance airspace capacity	De transfer of the second
between NAN (Bangkok FIR) – SAGAG	SAGAG
(Vientiane FIR) into Kunming FIR in southwestern China which the route design	(LIMOSIMMIN)
principle has been agreed through the tri-	0
lateral discussion between China, Lao PDR	M350
and Thailand on 24 – 25 June 2024.	
At SCSTFRG/14: China commented to	A POREN
ensure seamless coordination and timely	
implementation for ATS routes from LPB to	LLUMG PHABI
ELASU, a technical coordination meeting	18000
will be convened between China, Lao PDR,	A MACUTO
Thailand to finalize operational	SOUTH CONTRACTOR OF THE PROPERTY OF THE PROPER
arrangements, validate route design, and	
confirm implementation timelines on Q4	I SOM
2026.	
	1157 MAN 104 M
	NAN
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	VIENTAME STANDARD

ATS Route Name	MEKONG 03 (BASIT-UPNEP)
State Priority	В
IATA Priority	HIGH/MEDIUM/LOW (Need IATA assessment)
Requested by (when)	Cambodia and Thailand (2015)
States/Administrations Involved	Cambodia, Thailand (Phnom Penh and Bangkok
	FIRs)
Route Description	UPNEP (942.26N 10029.60E) – BASIT
	(Bangkok/Phnom Penh FIR Boundary) (934.95N
	10221.12E)
Flight Level Band	
Benefit (fuel, environmental)	
Operational Information	VN
(potential airlines, flight frequency)	
Remarks: At SAIOSEACG/4: this proposal	
is newly incorporated. The development of a	Transition of the state of the
direct ATS route serving traffic between	**************************************
VVTS (Viet Nam), VDSV (Cambodia) and	UPNEP wed
VTSM/VTSP (Thailand) was discussed	
during the MK-ATM/CG/10 (Nov 2024), the	BASIT
design principle of the route was agreed	A TOME A
among relevant States. With a 2-phase	23) 1900 1900 1900 1900 1900 1900 1900 190
implementation plan, this agreement was	
captured as Conclusion MK-ATM/CG/10-3	
from the meeting:	
a) Phase 1: implementation of BASIT – UPNEP, which were agreed upon by	
Cambodia and Thailand. Both States were	
ready to begin the implementation.	
b) Phase 2: implementation of TUNPO –	
BASIT by Cambodia and Viet Nam.	
This route segment would be added into ATS	
Route Catalogue later as Viet Nam need to	
conduct internal assessment before	
developing an implementation plan.	
L0 L h	
At SCSTFRG/13: Cambodia reported	
ongoing cooperation with Thailand under	
Phase 1, and stated that this topic would be	
further addressed at the upcoming Mekong	
ATM Meeting later this year.	

ATS Route Name	SCS 01
State Priority	D
IATA Priority	HIGH
Requested by (when)	IATA (01/09/2018)
States/Administrations Involved	Viet Nam, China, Hong Kong China (Ho Chi Minh,
	Sanya, Hong Kong FIRs)
Route Description	DAMEL 1358.7N 11130.6E – Cheung Chau (CH)
	2213.2N 11401.8E
Flight Level Band	28,000 – 46,000 ft
Benefit (Environmental)	23 NM / 4 minutes, 300 kg fuel per flight, 1,560
	tonnes fuel, 4,914 tonnes CO ₂ annually
Operational Information	CX, KA, MH, SQ
(potential airlines, flight frequency, potential	More than 100 flights per week
city pairs)	SIN – Pearl River Delta airports
Ramarks: Proposed route shortening for	

Remarks: Proposed route shortening for M771 into the Pearl River Delta area.

At SEACG/19: 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.

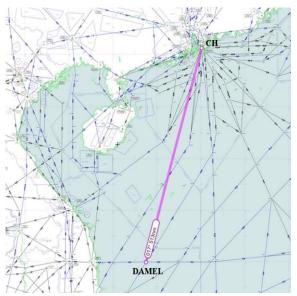
At SEACG/26: Hong Kong China commented they would need to review the integration of this route proposal with its planned airspace enhancement projects.

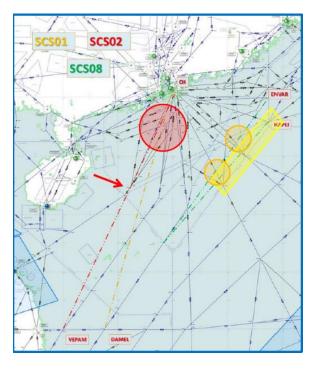
22/07/2019: Viet Nam has no objection, subject to agreement from China and Hong Kong China.

23/10/2020: China commented the proposal was under consideration.

30/10/2020: Hong Kong China commented SCS 01 and SCS 02 were conflicting with each other (see the red circle in the figure below). The two routes would create additional confliction points in the most congested ATC sector and ATS route segment in the Hong Kong FIR (see the red circle and arrow in the figure below). Therefore, these two routes were not recommended.

At ATM/SG/8: IATA provided updates on IATA priority; implementation benefits; and operational information.





29/09/2021: China commented SCS 01 would create conflict with existing ATS routes A1, L642 and M771, and therefore not recommended for implementation.

At ATM/SG/9: IATA provided update on the route operational information.

At SCSTFRG/13: Hong Kong China suggested to archive SCS 01 to focus on the discussion to other feasible routes. IATA advised that they will reassess the feasibility of the proposal and retain it in the ATS Route Catalogue list pending further review.

ATS Route Name	SCS 02
State Priority	D
IATA Priority	HIGH
Requested by (when)	IATA (01/09/2018)
States/Administrations Involved	Viet Nam, China, Hong Kong China (Ho Chi Minh,
	Sanya, Hong Kong FIRs)
Route Description	VEPAM 1358.0N 11000.0E – Cheung Chau (CH)
•	2213.2N 11401.8E
Flight Level Band	28,000 – 46,000 ft
Benefit (Environmental)	12 NM / 1 minutes, 200 kg fuel per flight, 2,080
,	tonnes fuel, 8,580 tonnes CO ₂ annually
Operational Information	CX, KA, MH, SQ
(potential airlines, flight frequency, potential	More than 200 flights per week
city pairs)	SIN – Pearl River Delta airports
Remarks: Proposed route shortening for	

Remarks: Proposed route shortening for L642 out of the Pearl River Delta area.

At SEACG/19: 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.

At SEACG/26: Hong Kong China commented they would need to review the integration of this route proposal with its planned airspace enhancement projects.

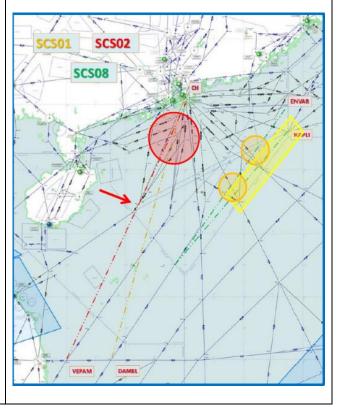
22/07/2019: Viet Nam has no objection, subject to agreement from China and Hong Kong China.

23/10/2020: China commented the proposal was under consideration.

30/10/2020: Hong Kong China commented SCS 01 and SCS 02 were conflicting with each other (see the red circle in the figure below). The two routes would create additional confliction points in the most congested ATC sector and ATS route segment in the Hong Kong FIR (see the red circle and arrow in the figure below). Therefore, these two routes were not recommended.

At ATM/SG/8: IATA provided updates on implementation benefits; and operational information. 29/09/2021: China commented SCS 02 would create conflict with existing





ATS routes A1, L642 and M771, and
therefore not recommended for
implementation.
At ATM/SG/9: IATA provided update on
the route operational information.
At SCSTFRG/13: Hong Kong China
suggested to archive SCS 02 to focus on the
discussion to other feasible routes. IATA
advised that they will reassess the feasibility
of the proposal and retain it in the ATS
Route Catalogue list pending further review.

ATS Route Name	SCS 11
State Priority	В
IATA Priority	LOW
Requested by (when)	IATA (10/03/2015: SEACG/22)
States/Administrations Involved	Viet Nam, Singapore, Malaysia (Ho Chi Minh,
	Singapore, Kuala Lumpur FIRs)
Route Description	Kuala Terengganu (VKR) 0521.6N 10304.9E –
	BITOD 0715.4N 10407.1E
Flight Level Band	
Benefit (fuel, environmental)	6 NM / 0 minutes, 23 kg fuel per flight, 167 tonnes
	fuel, 527 tonnes CO ₂ annually
Operational Information	MH, VN
(potential airlines, flight frequency,	At least 20 flights per week
potential city pairs)	KUL – HAN/PNH/SGN
D 1 1 GE 1 GG 10 C 3 C 1	

Remarks: At SEACG/26: Malaysia, Singapore and Viet Nam had agreed in principle the feasibility of the route proposal. The States concerned would meet to further discuss the proposal in due time, and Malaysia agreed to become the lead coordinator.

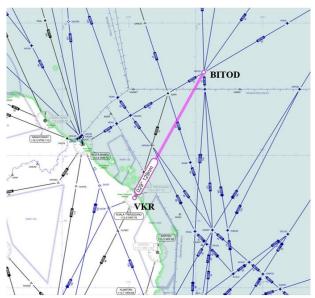
22/07/2019: Viet Nam proposed the following route proposals for consideration by Malaysia and Singapore: Uni-directional eastbound route VKR – BITOD – PQC; and uni-directional westbound route PQC – IGARI – LASOB.

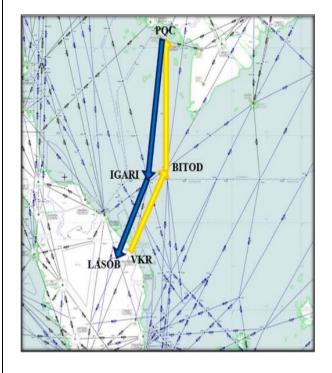
At ATMSG/7: Malaysia would lead the tripartite meeting, expected during the SCSTFRG/8 in September 2019. At ATMSG/8: This route proposal was under consideration by Viet Nam; and IATA provided updates on IATA priority, implementation benefits and operational information.

08/10/2021: Malaysia commented they would host the meeting between Malaysia, Singapore and Viet Nam in Q4 2021 or Q1 2022.

22/2/2022: the tripartite meeting between Malaysia, Singapore and Viet Nam was canceled and will be rescheduled to report the discussion outcome to SCSTFRG/10 meeting (scheduled 31/5 – 1/6 2022) In the tripartite meeting in September 2022, Viet Nam proposed the following route proposals:

unidirectional Eastbound: VKR-IPRIX-BITOD-PQU; and unidirectional Westbound: PQU-IGARI-LASOB.





Upon agreement by States concerned (Malaysia and Viet Nam), IATA proposed an extention from IPRIX to VIGEN to this proposal for smooth joining to M765 saving 5 - 6 NM for eastbound flights.

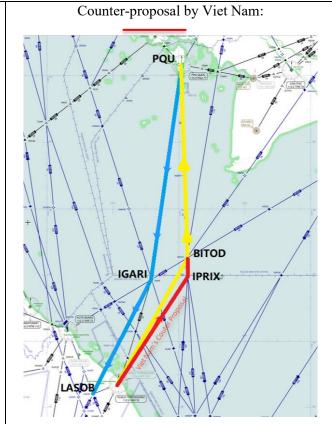
Before SAIOSEACG/2: Malaysia indicated that Malaysia, Singapore and Vietnam have broadly agreed to the proposal. Malaysia's proposal for the Coordination Procedure has been agreed by Singapore pending Viet Nam acknowledgement.

At SAIOSEACG/2: regarding the additional proposal by IATA to further line up the IPRIX to VIGEN, Viet Nam declined based on their safety and efficiency evaluation.

At SCSTFRG/11: Viet Nam submitted IP05 that commented at the Tripartite Meeting (through a video teleconference) between Malaysia, Viet Nam, and Singapore on the ATS route, and other relevant issues on 28 July 2022. Viet Nam principally agreed to the proposal for the establishment of a new ATS route as requested by IATA. Viet Nam suggested a minor adjustment to the proposal, stating that VKR-IPRIX should be used instead of VKR-BITOD to minimize the number of transfer points at IPRIX and reduce the workload of ATC. Viet Nam also suggested RNAV 2/RNP 2 for both routes. The timeline depends on the Malaysia and Singapore sides.

At SAIOSEACG/3: Malaysia suggested to apply RNP10 route specification on the proposed routes. Singapore had no objections to either RNP 2 or RNP 10 navigation specifications for the proposed routes but highlighted that there are some operational details that need to be further discussed between the three States involved. In line with the APAC Seamless ANS Plan, ICAO recommended RNAV 2 and RNP 4 as preferable options for future air navigation, and the suggestion was echoed by Viet Nam. As requested by Malaysia, IATA agreed to investigate the fleet equipage operating in the area.

At SCSTFRG/12: Malaysia has engaged with local airlines operating in the area and confirmed that they are ready for RNAV



IGARI PRIX Additional proposal

Suggested by IATA:

2/RNP 4. Further discussions with the relevant states are scheduled to take place in Q1 2025.

Before SAIOSEACG/4: Malaysia updated through email that technical discussion between CAAM and CAAS was conducted on 18/2/25. Tripartite discussion is proposed in Q2/3 subject to states availability.

At SAIOSEACG/4: IATA proposed deleting the additional proposal to further connect the IPRIX and VIGEN in order for the counter-proposal from Viet Nam to be progressed without further delay.

ATS Route Name	SCS 14
	B
State Priority	=
IATA Priority	LOW
Requested by (when)	Malaysia (26/03/2018: SAIOACG/8 & SEACG/25)
States/Administrations Involved	Malaysia, Singapore (Kota Kinabalu, Singapore
	FIRs), Indonesia
Route Description	ENREP 045223.88N 1041442.00E – OLKIT
	045012.12N 1115118.00E or
	ENREP 045223.88N 1041442.00E – TERIX
	041520.88N 1093455.92E
Flight Level Band	At or below 29,000 ft
Benefit (fuel, environmental)	107 NM / 12 minutes, 365 kg fuel, 1,153 kg CO ₂
	per flight, 266,450 kg fuel, 841,982 kg CO ₂
	annually
Operational Information	BKI – KBR
(potential airlines, flight frequency, potential	
city pairs)	
Remarks: Purpose is to circumnavigate	
major confluence of air traffic at VPK thu	
providing better efficiency for flight	VIII XXX
operating from/to KBR. Operation at 21,000	
ft and below to avoid crossing traffic within	
the South China Sea airspace.	ENREP
A GEA GG/26 G	
At SEACG/26: Singapore commented	TERIX
implementation of this route would be	
possible with the implementation of space-	
based ADS-B in Singapore FIR, planned by	
end of 2019; and IATA would assign its	
priority after a comprehensive review of the	
Catalogue by its focus group.	
15/05/2020. diamonian and this next annual	
15/05/2020: discussion on this route proposal would be conducted when the COVID-19	
situation improved, and a face-to-face	
-	
meeting could be conducted between	
Malaysia and Singapore.	
At ATMSG/8: Indonesia commented future	
discussion on this route proposal would	
require their involvements; and IATA	
assigned "LOW" priority and recommended	
for deletion.	
Tor deletion.	
16/09/2021: Singapore commented that, as	
the COVID-19 situation had not improved,	
the face-to-face meeting between the States	
involved had yet to materialise.	
At SAIOSEACG/3: Malaysia proposed	
withdrawing the route proposal. Singapore	
informed that they have no objections to the	
withdrawal of SCS 14. IATA suggested that	
the two route proposals be archived for future	
the two route proposals be arenived for future	

use instead of withdrawn. The meeting
ε
agreed to archive the two route proposals
from the ATS Route Catalogue.
Trong the first result among the

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ATS Route Name	SCS 15
State Priority	B
IATA Priority	LOW
Requested by (when)	Malaysia (26/03/2018: SAIOACG/8 & SEACG/25)
States/Administrations Involved	Malaysia, Singapore (Kota Kinabalu, Singapore
States/Manifestations III volved	FIRs)
Route Description	ENREP 045223.88N 1041442.00E – KAMIN
Troute Description	023441.88N 1085536.12E
Flight Level Band	At or below 29,000 ft
Benefit (fuel, environmental)	107 NM / 12 minutes, 365 kg fuel, 1,153 kg CO ₂
	per flight, 266,450 kg fuel, 841,982 kg CO ₂
	annually
Operational Information	KCH – KBR
(potential airlines, flight frequency, potential	
city pairs)	
Remarks: Purpose is to circumnavigate	
major confluence of air traffic at VPK thus	
providing better efficiency for flight	
operating from/to KBR. Operation at 29,000	
ft and below to avoid crossing traffic within	
the South China Sea airspace.	ENREP
ALGEAGGIAC G	776
At SEACG/26: Singapore commented	6 312nm
implementation of this route would be	
possible with the implementation of space- based ADS-B in Singapore FIR, planned by	KAMIN
end of 2019; and IATA would assign its	
priority after a comprehensive review of the	
Catalogue by its focus group.	
Catalogue by its locus group.	
15/05/2020: discussion on this route proposal	
would be conducted when the COVID-19	The state of the s
situation improved, and a face-to-face	
meeting could be conducted between	
Malaysia and Singapore.	
At ATM/SG/8: Indonesia commented future	
discussion on this route proposal would	
require their involvements; and IATA	
assigned "LOW" priority and recommended	
for deletion.	
16/00/2021: Singapore commented that as	
16/09/2021: Singapore commented that, as	
the COVID-19 situation had not improved, the face-to-face meeting between the States	
involved had yet to materialise.	
m.o.r. oa maa you to materiamoe.	
At SAIOSEACG/3: Malaysia proposed	
withdrawing the route proposal. Singapore	
informed that they have no objections to the	
withdrawal of SCS15. IATA suggested that	
the two route proposals be archived for future	
use instead of withdrawn. The meeting	

agreed to archive the two route proposals	
from the ATS Route Catalogue.	

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ATS Route Name	SCS 16
State Priority	C
IATA Priority	MEDIUM
Requested by (when)	Viet Nam (01/04/2019: SEACG/26)
States/Administrations Involved	Singapore, Viet Nam (Singapore, Ho Chi Minh FIRs)
Route Description	Implementation of new uni-directional northbound ATS route: ENREP 045223.88N 1041442.00E – New Waypoint (FIR BDRY between Singapore and Ho Chi Minh) – Tan Son Nhat (TSN) 104859.20N 1063844.10E
Flight Level Band	
Benefit (fuel, environmental)	48 NM / 6 minutes, 252 kg fuel, 794 kg CO ₂ per flight, 576,576 kg fuel, 1,816 tonnes CO ₂ annually Reduction in Distance/Time/Fuel/CO ₂ by 19NM/2MIN/600LBS/860KGS per flight with B744ERF for SIN/SGN portion on the basis of annual average wind conditions.
Operational Information	SIN – SGN
(potential airlines, flight frequency, potential city pairs)	
Remarks: 22/07/2019: Viet Nam update that due to crossing routes, this route proposal would be possible subject to the enhancement of surveillance and ATFM capabilities in the concerned area. At ATM/SG/8: Viet Nam commented this route proposal was under consideration; and IATA assigned "MEDIUM" priority. 11/2/2022: Singapore commented the concerned area is fully covered by ADS-B to support the proposal and ready to discuss on the implementation. 11/02/2022: Viet Nam commented they will	TSN.
continue to assess a necessity of this ATS/PBN route requirement adding ATS surveillance (SSR and ADS-B) capability has been enhanced by cooperation between Viet Nam and Singapore, and new ATM aoutomation/AFTM capability will be enhanced with a long-term plan.	

ATS Route Name	SCS 18
State Priority	C
IATA Priority	LOW
Requested by (when)	Viet Nam (01/04/2019: SEACG/26)
States/Administrations Involved	Viet Nam, China, Hong Kong China (Ho Chi Minh,
	Sanya, Hong Kong FIRs)
Route Description	Phu Cat (PCA) 135726.00N 1090233.60E – IKELA
	183942.00N 1121442.00E or
	Phu Cat (PCA) 135726.00N 1090233.60E –
	LENKO 172456.88N 1101800.00E
Flight Level Band	
Benefit (fuel, environmental)	52 NM / 5 minutes, 220 kg fuel per flight, 435
	tonnes fuel, 1,370 tonnes CO ₂ annually
Operational Information	KA, MH
(potential airlines, flight frequency, potential	At least 30 flights per week
city pairs)	KUL – SGN – East Asia
Remarks: At ATMSG/7: China proposed to	
concentrate on the implementation of parallel	
route to A1 (SCSTFRG Priority Area 1). This route proposal may not be needed, if the	
parallel route to A1 is implemented.	IKELA
parametroute to A1 is implemented.	
23/10/2020: No update (SCSTFRG/9	
postponed to 2021).	LENKO
pesipenta to 2021).	
At ATMSG/8: IATA provided updates on	
IATA priority; implementation benefits; and	
operational information. At ATM/SG/9: No	
update (discussion on planned	
implementation of parallel route to A1 was	
still ongoing at the SCSTFRG meeting).	
	PCA
At SCSTFRG/13: Hong Kong China agrees	
with the remark made by China to focus on	
the implementation of parallel routes on A1.	
It is suggested to archived SCS 08 to focus	
on the discussion to other feasible routes.	

ATS Route Name	SCS 19
State Priority	A
IATA Priority	MEDIUM
Requested by (when)	Malaysia (20/03/2023)
States/Administrations Involved	Malaysia, Thailand
Route Description	This proposal essentially focuses on extending M757 to replace the conventional route Y508
Flight Level Band	•
Benefit (fuel, environmental)	The implementation of PBN Airspace and to simplify FPL in Kuala Lumpur FIR.
Operational Information (potential airlines, flight frequency)	
Remarks: At SAIOSEACG/2: Thailand indicated its full support for the extension of M757. At SCSTFRG/12: Thailand said that they already submitted PfA to ICAO.	TRANG

ATS Route Name	SCS 20
State Priority	В
IATA Priority	MEDIUM
Requested by (when)	Malaysia (20/03/2023)
States/Administrations Involved	Malaysia, Singapore, Indonesia, Viet Nam
Route Description	This proposal essentially focuses on extending M765 to replace the conventional routes W546 and G468.
Flight Level Band	
Benefit (fuel, environmental)	The implementation of PBN Airspace and to simplify FPL in Kuala Lumpur FIR.
Operational Information (potential airlines, flight frequency)	
Remarks: At SAIOSEACG/2: Indonesia expressed its favourable consideration on this proposal, further assessment was needed. At SCSTFRG/12: Malaysia has informed that the proposals are currently under review by Indonesia. Malaysia has proposed bilateral discussions on these proposals, and the outcomes of these discussions will be communicated to ICAO.	THE STATE OF THE S
Before SAIOSEACG/4: Malaysia updated through email that a draft PfA for the proposal has been circulated to states involved for their review and consideration. At SCSTFRG/13: Indonesia noted that further coordination with Malaysia would be conducted.	

ATS Route Name	SCS 21
State Priority	В
IATA Priority	MEDIUM
Requested by (when)	Malaysia (20/03/2023)
States/Administrations Involved	Malaysia, Singapore, Indonesia
Route Description	This proposal essentially focuses on extending
	M758 to replace the conventional routes G582 and R461 (PUGER to MDN).
Flight Level Band	K401 (FOGER to MDN).
Benefit (fuel, environmental)	The implementation of PBN Airspace and to simplify FPL in Kuala Lumpur FIR.
Operational Information	
(potential airlines, flight frequency)	
Remarks: At SAIOSEACG/2: Indonesia expressed its favourable consideration on this proposal, further assessment was needed. At SCSTFRG/12: Malaysia has informed that the proposals are currently under review by Indonesia. Malaysia has proposed bilateral discussions on these proposals, and the outcomes of these discussions will be communicated to ICAO.	TOTAL PARTY OF THE
At SCSTFRG/13: Indonesia noted that further coordination with Malaysia would be conducted.	

ATS Route Name	SCS 22
State Priority	В
IATA Priority	MEDIUM
Requested by (when)	Malaysia (20/03/2023)
States/Administrations Involved	Malaysia, Singapore, Indonesia
Route Description	Upgrade a portion of conventional ATS routes
	G580 (VKG to VJN) to PBN Route
Flight Level Band	
Benefit (fuel, environmental)	The implementation of PBN Airspace.
Operational Information	
(potential airlines, flight frequency)	
Remarks: At SAIOSEACG/2: Indonesia expressed its favourable consideration on this proposal, further assessment was needed. At SCSTFRG/12: Malaysia has informed that the proposals are currently under review by Indonesia. Malaysia has proposed bilateral discussions on these proposals, and the outcomes of these discussions will be communicated to ICAO.	

ATS Route Name	SCS 23
State Priority	B
IATA Priority	MEDIUM
Requested by (when)	Malaysia (20/03/2023)
States/Administrations Involved	Malaysia, Singapore, Indonesia
Route Description	Upgrade from conventional ATS routes R223 to PBN Route
Flight Level Band	
Benefit (fuel, environmental)	The implementation of PBN Airspace.
Operational Information (potential airlines, flight frequency)	
Remarks: At SCSTFRG/12 meeting, Malaysia has informed that the proposals are currently under review by Indonesia. Malaysia has proposed bilateral discussions on these proposals, and the outcomes of these discussions will be communicated to ICAO.	

ATS Route Name	SEA 12
State Priority	C
IATA Priority	HIGH
Requested by (when)	IATA (01/09/2018)
States/Administrations Involved	Thailand, Lao PDR, Viet Nam, China (Bangkok,
	Vientiane, Hanoi, Sanya, Guangzhou FIRs)
Route Description	Roiet (ROT) 1607.0N 10346.7E – Huguang (LH)
	2107.9N 11020.2E
Flight Level Band	29,000 – 46,000 ft
Benefit (fuel, environmental)	14 NM / 2 minutes, 208 kg fuel, 655 kg CO ₂ per
	flight, 1,731 tonnes fuel, 5,451 tonnes CO ₂ annually
Operational Information	CX
(potential airlines, flight frequency, potential	160 flights per week
city pairs)	JKT/KUL PNH SIN – HKG/SYX
Remarks: Provide parallel to the A202	
route.	
At SEACG/26: Viet Nam proposed to concentrate on SCSTFRG Priority A. e. 1: parallel route to A1 proposal. This route proposal to be reviewed at a later stage. 23/10/2020: No update (SCSTFRG/9 postponed to 2021).	LH
At ATM/SG/9: No update (discussion on planned implementation of parallel route to A1 was still ongoing at the SCSTFRG meeting).	ROT
At SAIOSEACG/4: IATA agreed to archive the proposal requested by ICAO, as the main focus is on the parallel routes to A1. IATA noted that in the absence of an A1 parallel route progressing, this proposal will be reactivated.	

ATS Route NameState PriorityDIATA PriorityHIGHRequested by (when)Viet Nam (01/09/2018)States/Administrations InvolvedViet Nam, China (Hanoi, Sanya, Guangzhou FIRs)Route DescriptionNoi Bai (NOB) 2112.8N 10550.1E - Cat Bi (CBI) 2049.1N 10642.5E - SAMAS 2030.3N 11029.7E on Noi Bai (NOB) 2112.8N 10550.1E - Cat Bi (CBI) 2049.1N 10642.5E - Huguang (LH) 2107.9N 11020.2E or Noi Bai (NOB) 2112.8N 10550.1E - Cat Bi (CBI) 2049.1N 10642.5E - Nankang (BHY) 2135.2N 10925.9EFlight Level Band28,000 - 46,000 ftBenefit (fuel, environmental)48 NM / 6 minutes, 252 kg fuel, 794 kg CO2 per flight, 576,576 kg fuel, 1,816 tonnes CO2 annually For ZGGG-VVNB with B789, Viet Nam02 can reduce the flight distance by 73NM, reduce the flight time by 9 minutes, and save 700Kg of fuel.Operational Information (potential airlines, flight frequency, potentialCX44 flights per week
HIGH Requested by (when) Viet Nam (01/09/2018) States/Administrations Involved Viet Nam, China (Hanoi, Sanya, Guangzhou FIRs) Route Description Noi Bai (NOB) 2112.8N 10550.1E - Cat Bi (CBI) 2049.1N 10642.5E - SAMAS 2030.3N 11029.7E on Noi Bai (NOB) 2112.8N 10550.1E - Cat Bi (CBI) 2049.1N 10642.5E - Huguang (LH) 2107.9N 11020.2E or Noi Bai (NOB) 2112.8N 10550.1E - Cat Bi (CBI) 2049.1N 10642.5E - Nankang (BHY) 2135.2N 10925.9E Flight Level Band 28,000 - 46,000 ft Benefit (fuel, environmental) 48 NM / 6 minutes, 252 kg fuel, 794 kg CO ₂ per flight, 576,576 kg fuel, 1,816 tonnes CO ₂ annually For ZGGG-VVNB with B789, Viet Nam02 can reduce the flight distance by 73NM, reduce the flight time by 9 minutes, and save 700Kg of fuel. Operational Information (CX 44 flights per week
Viet Nam, China (Hanoi, Sanya, Guangzhou FIRs) Route Description
Viet Nam, China (Hanoi, Sanya, Guangzhou FIRs) Route Description
Noi Bai (NOB) 2112.8N 10550.1E – Cat Bi (CBI) 2049.1N 10642.5E – SAMAS 2030.3N 11029.7E or Noi Bai (NOB) 2112.8N 10550.1E – Cat Bi (CBI) 2049.1N 10642.5E – Huguang (LH) 2107.9N 11020.2E or Noi Bai (NOB) 2112.8N 10550.1E – Cat Bi (CBI) 2049.1N 10642.5E – Nankang (BHY) 2135.2N 10925.9E Flight Level Band 28,000 – 46,000 ft Benefit (fuel, environmental) 48 NM / 6 minutes, 252 kg fuel, 794 kg CO ₂ per flight, 576,576 kg fuel, 1,816 tonnes CO ₂ annually For ZGGG-VVNB with B789, Viet Nam02 can reduce the flight distance by 73NM, reduce the flight time by 9 minutes, and save 700Kg of fuel. Operational Information (potential airlines, flight frequency, potential of the property of the control of the property of the control of the contro
Noi Bai (NOB) 2112.8N 10550.1E – Cat Bi (CBI) 2049.1N 10642.5E – Huguang (LH) 2107.9N 11020.2E or Noi Bai (NOB) 2112.8N 10550.1E – Cat Bi (CBI) 2049.1N 10642.5E – Nankang (BHY) 2135.2N 10925.9E Flight Level Band 28,000 – 46,000 ft Benefit (fuel, environmental) 48 NM / 6 minutes, 252 kg fuel, 794 kg CO ₂ per flight, 576,576 kg fuel, 1,816 tonnes CO ₂ annually For ZGGG-VVNB with B789, Viet Nam02 can reduce the flight distance by 73NM, reduce the flight time by 9 minutes, and save 700Kg of fuel. Operational Information (potential airlines, flight frequency, potential) CX 44 flights per week
2049.1N 10642.5E – Huguang (LH) 2107.9N 11020.2E or Noi Bai (NOB) 2112.8N 10550.1E – Cat Bi (CBI) 2049.1N 10642.5E – Nankang (BHY) 2135.2N 10925.9E Flight Level Band 28,000 – 46,000 ft Benefit (fuel, environmental) 48 NM / 6 minutes, 252 kg fuel, 794 kg CO ₂ per flight, 576,576 kg fuel, 1,816 tonnes CO ₂ annually For ZGGG-VVNB with B789, Viet Nam02 can reduce the flight distance by 73NM, reduce the flight time by 9 minutes, and save 700Kg of fuel. Operational Information (potential airlines, flight frequency, potential) CX 44 flights per week
11020.2E or Noi Bai (NOB) 2112.8N 10550.1E - Cat Bi (CBI) 2049.1N 10642.5E - Nankang (BHY) 2135.2N 10925.9E Flight Level Band 28,000 - 46,000 ft Benefit (fuel, environmental) 48 NM / 6 minutes, 252 kg fuel, 794 kg CO ₂ per flight, 576,576 kg fuel, 1,816 tonnes CO ₂ annually For ZGGG-VVNB with B789, Viet Nam02 can reduce the flight distance by 73NM, reduce the flight time by 9 minutes, and save 700Kg of fuel. Operational Information CX 44 flights per week
Noi Bai (NOB) 2112.8N 10550.1E – Cat Bi (CBI) 2049.1N 10642.5E – Nankang (BHY) 2135.2N 10925.9E Flight Level Band 28,000 – 46,000 ft Benefit (fuel, environmental) 48 NM / 6 minutes, 252 kg fuel, 794 kg CO ₂ per flight, 576,576 kg fuel, 1,816 tonnes CO ₂ annually For ZGGG-VVNB with B789, Viet Nam02 can reduce the flight distance by 73NM, reduce the flight time by 9 minutes, and save 700Kg of fuel. Operational Information CX (potential airlines, flight frequency, potential
2049.1N 10642.5E – Nankang (BHY) 2135.2N 10925.9E Flight Level Band 28,000 – 46,000 ft 48 NM / 6 minutes, 252 kg fuel, 794 kg CO ₂ per flight, 576,576 kg fuel, 1,816 tonnes CO ₂ annually For ZGGG-VVNB with B789, Viet Nam02 can reduce the flight distance by 73NM, reduce the flight time by 9 minutes, and save 700Kg of fuel. Operational Information (potential airlines, flight frequency, potential) CX 44 flights per week
Flight Level Band 28,000 – 46,000 ft Benefit (fuel, environmental) 48 NM / 6 minutes, 252 kg fuel, 794 kg CO ₂ per flight, 576,576 kg fuel, 1,816 tonnes CO ₂ annually For ZGGG-VVNB with B789, Viet Nam02 can reduce the flight distance by 73NM, reduce the flight time by 9 minutes, and save 700Kg of fuel. Operational Information (potential airlines, flight frequency, potential CX 44 flights per week
Flight Level Band Benefit (fuel, environmental) 48 NM / 6 minutes, 252 kg fuel, 794 kg CO ₂ per flight, 576,576 kg fuel, 1,816 tonnes CO ₂ annually For ZGGG-VVNB with B789, Viet Nam02 can reduce the flight distance by 73NM, reduce the flight time by 9 minutes, and save 700Kg of fuel. Operational Information (potential airlines, flight frequency, potential) CX 44 flights per week
Benefit (fuel, environmental) 48 NM / 6 minutes, 252 kg fuel, 794 kg CO ₂ per flight, 576,576 kg fuel, 1,816 tonnes CO ₂ annually For ZGGG-VVNB with B789, Viet Nam02 can reduce the flight distance by 73NM, reduce the flight time by 9 minutes, and save 700Kg of fuel. Operational Information (potential airlines, flight frequency, potential) CX 44 flights per week
flight, 576,576 kg fuel, 1,816 tonnes CO ₂ annually For ZGGG-VVNB with B789, Viet Nam02 can reduce the flight distance by 73NM, reduce the flight time by 9 minutes, and save 700Kg of fuel. Operational Information (potential airlines, flight frequency, potential CX 44 flights per week
For ZGGG-VVNB with B789, Viet Nam02 can reduce the flight distance by 73NM, reduce the flight time by 9 minutes, and save 700Kg of fuel. Operational Information (potential airlines, flight frequency, potential Additional Services of CX 44 flights per week
reduce the flight distance by 73NM, reduce the flight time by 9 minutes, and save 700Kg of fuel. Operational Information (potential airlines, flight frequency, potential 44 flights per week
flight time by 9 minutes, and save 700Kg of fuel. Operational Information (potential airlines, flight frequency, potential 44 flights per week
Operational Information CX (potential airlines, flight frequency, potential 44 flights per week
(potential airlines, flight frequency, potential 44 flights per week
city pairs)
Remarks: Because of small traffic demand
and cost/benefit considerations, this route is
impossible and cannot be implemented at
present. Retain proposal for long-term
planing (Viet Nam). Retention discussed at
SEACG/22.
SAMAS CELA CIC/2C Climan and 14 and 15
At SEACG/26: China commented that this route proposal was very unlikely to be
implemented, and recommended for this
route proposal to be deleted from the
Catalogue; and Viet Nam proposed alternate
option: Noi Bai (NOB) 2112.8N 10550.1E –
Cat Bi (CBI) 2049.1N 10642.5E – Nankang
(BHY) 2135.2N 10925.9E to serve traffic
between Ha Noi/Cat Bi/Van Don (new
international airport in Viet Nam) and
destinations in China and beyond.
22/10/2020 (1)
23/10/2020: China commented the proposal
was under consideration.
At ATMSG/8: IATA preferred this route
At ATMSG/8: IATA preferred this route proposal to be retained in the Catalogue.
29/09/2021: China commented the proposal
was still under consideration.
1/3/2022: IATA preferred this route proposal
to be retained in the Catalogue. Despite
currently low traffic due to the epidemic, as
traffic returns this proposed route can give

airlines more flight route options between China and Vietnam and beyond.

3/3/2022: China proposed for deletion due to inconsistency with overall flight flow.

At SCSTFRG/11: Viet Nam suggested this route proposal be retained in the APAC Route Catalogue and wished that China would reconsider the feasibility of this new route. It was also supported by IATA. In response, China confirmed that they would further assess this route proposal internally and discuss it with Viet Nam during their upcoming bilateral meeting.

At SCSTFRG/12: Viet Nam said that they have been continuously discussing the implementation of this route with China.

At SCSTFRG/13: China stated that the parallel route to A1 remains the top priority. Viet Nam does support this priority.

Chapter 3: East Asia

(referred to States, SAIOSEACG and SCSTFRG for review)

ATS Route Name	CHA 01
State Priority	D
IATA Priority	HIGH
Requested by (when)	IATA (01/09/2018)
States/Administrations Involved	China (Lanzhou, Beijing, Wuhan FIRs)
Route Description	Yinchuan (YHD) 3820.8N 10624.6E – Zhengzhou
Troute Description	(CGO) N3431.1 E11350.6
Flight Level Band	8,400 – 15,000 meters
Benefit (fuel, environmental)	73 NM / 9 minutes, 26,645 kg fuel, 825,995 kg CO ₂
	annually
Operational Information	Europe – Shanghai
(potential airlines, flight frequency, potential	
city pairs)	
Remarks: Original proposal: YHD – YAV –	2000
CGO – ZHO – SB/HFE. The route segment	
between CGO – ZHO – HFE has been	
implemented as part of ATS route B208	
since 2008. Therefore, the route description	YHD
was amended as YHD – CGO accordingly.	
At ATMSG/7: China commented the	
proposed route would create numerous	+
conflicts, and was not consistent with its	
planned route network.	
23/10/2020: China commented there was no	occo.
progress on this proposal.	
progress on this proposal.	
At ATMSG/8: IATA preferred this route	
proposal to be retained in the Catalogue, and	
proposed the route segment between CGO –	
ZHO – HFE to be made available for	DUBAG
eastbound too. In response to IATA's	HEFELCON ARBOT TO A TOP TO A T
proposal, China commented the following	Cit 92X Find 30.6 Sign 135.65 Sign
uni-directional routing systems had been	(clusive 2 ZHR)202 BB97Xt2 07
implemented for flight planning:	DETA COMPANY OF THE STANKER
(a) eastbound: HFE – FYG – ZHOU – CGO.	NGZHOU COST TIBES ZHO WING ZHRIZOS ZHR
(b) westbound: CGO – W129/KAMDA –	KANDA 1/6 RANGO NEW PART OF THE PART OF TH
W128/FYG.	W129/KAMOA
A+ CATO A CC/10 1 CE A CC/27 - CL :	6 M. ARO4 i tiv gs.0, (Zhengshou CTA 7800m of below) ZSCR15
At SAIOACG/10 and SEACG/27: China	TURNS TO THE POLY AND THE POLY
proposed for deletion.	JOR REVKU POPUNI AND TOPON NO. SEA STATE TO SEA PROPERTY OF THE PROPERTY OF TH
3/3/2022: China commented how the current	[Map provided by China]
uni-directional routing system works in	
actual operation (see the Map provided by	
China) adding that it could reduce heavy	
traffic and conflict over ZHO.	
The state of the s	

ATS Route Name	CHA 02
State Priority	D
IATA Priority	HIGH
Requested by (when)	IATA (01/09/2018)
States/Administrations Involved	China (Urumqi, Lanzhou FIRs)
Route Description	Qiuci (XKC) 4140.6N 08250.6E – Jiayuguan (CHW)
	3951.3N 09821.0E
Flight Level Band	8,400 – 15,000 meters
Benefit (fuel, environmental)	93 NM / 12 minutes, 4,426 tonnes fuel, 1,372,202
	tonnes CO ₂ annually
Operational Information	63 flights per week
(potential airlines, flight frequency,	Middle East/Pakistan – China/Japan/Korea
potential city pairs)	
Remarks: China comment: there are existing routes between XKC and CHW. At ATMSG/7: China commented the proposed route was not possible for implementation, and proposed for deletion; and IATA would provide feedback after a comprehensive review of the Catalogue by its focus group, expected in March 2020.	118.7 MA 118.7
23/10/2020: China proposed for deletion. At ATMSG/8: IATA preferred this route proposal to be retained in the Catalogue.	113.1 (FT) 119.5 XX00 I 119.

ATS Route Name	CHA 12
State Priority	D
IATA Priority	HIGH
Requested by (when)	IATA (29/08/2018)
States/Administrations Involved	Russia, Mongolia, China (Novosibirsk,
	Krasnoyarsk, Ulaanbatar, Beijing FIRs)
Route Description	NOSPI 534912.00N 0865248.00E – New Waypoint
	(FIR BDRY between Novosibirsk and
	Krasnoyarsk) – New Waypoint (FIR BDRY
	between Krasnoyarsk and Ulaanbatar) – New
	Waypoint (Entry/Exit Point: FIR BDRY between
	Ulaanbatar and Beijing) – Baotou (BAV)
Flight Level Band	28,000 – 46,000 ft
Benefit (fuel, environmental)	5 minutes, 6,090 tonnes fuel, 19,185 tonnes CO ₂
	annually
Operational Information	85 flights per week
(potential airlines, flight frequency, potential	
city pairs)	
Remarks: New route proposal replacing the	STREET STREET STREET
previous from Weixian to Novokuznetsk.	
	NOSPI
At ATMSG/7: China and Mongolia	
commented the proposed route was not	2000
possible for implemention; and IATA would	
provide feedback after a comprehensive	
review of the Catalogue by its focus group,	S TO ME TO M
expected in March 2020.	
22/10/2020. China proposed for deleties	
23/10/2020: China proposed for deletion.	
At ATMSG/8: IATA preferred this route	
proposal to be retained in the Catalogue.	The state of the s
proposar to be retained in the Catalogue.	COLUMN TO THE STATE OF THE STAT
	BAV

ATS Route Name	IATA 02
State Priority	D
IATA Priority	HIGH
Requested by (when)	IATA (01/09/2018)
States/Administrations Involved	China (Kunming, Guangzhou FIRs)
Route Description	OMBON 3321.4N 10416.3E – Sanjiang (SJG)
	2546.6N 10936.6E
Flight Level Band	8,400 – 15,000 meters
Benefit (fuel, environmental)	14 minutes, 6,657 tones fuel, 20,636 tonnes CO ₂
	annually
Operational Information	56 flights per week
(potential airlines, flight frequency,	Europe – Pearl River Delta airports
potential city pairs)	
Remarks: China comments: There are	
existing routes between OMBON and RO.	OMBON
Direct route is impossible at present. 23/10/2020: China proposed for deletion	
At ATM/SG/8: IATA preferred his route	
proposal to be retained in the Ca alogue.	
At the SCSTFRG/13: IATA and China agreed to archive the proposal and consider the potential of Conditional Route (CDR) when appropriate. IATA shared that discussions had taken place in a side meeting with China. As the route proposal aims to connect Europe with Southern China, due to safety concerns related to traffic conflicts, IATA proposed to support and facilitate the flight operations via Y1 and L888 as an alternate.	SJC

ATS Route Name	SCS 08
State Priority	D
IATA Priority	HIGH
Requested by (when)	IATA (01/09/2018)
States/Administrations Involved	Hong Kong China, Taibei ACC (Hong Kong, Taibei
	FIRs)
Route Description	DULOP 1814.2N 11432.6E – ELATO 2220.0N
	11730.0E – A1 or
	DULOP 1814.2N 11432.6E – ENVAR 2159.5N
	11730.0E – M750 or
	DULOP 1814.2N 11432.6E – KAPLI 2110.0N
	11730.0E – G86
Flight Level Band	28,000 – 46,000 ft
Benefit (fuel, environmental)	6 minutes, 850 kg fuel, 2,687 kg CO ₂ per flight,
	1,863 tonnes fuel, 5,868 tonnes CO ₂ annually
	Note: Savings based on DULOP – ENVAR.
Operational Information	BR, CI
(potential airlines, flight frequency,	At least 42 flights per week
potential city pairs)	Southeast Asia – North Asia airports
Remarks : Supports traffic Northeast Asia –	200
Southeast Asia Potentially problematic as	

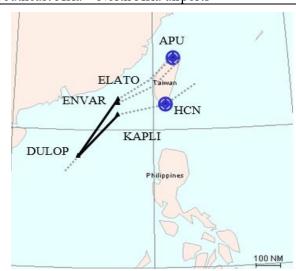
Remarks: Supports traffic Northeast Asia - Southeast Asia. Potentially problematic as will impact South China Sea's traffic arrangements (IATA to review).

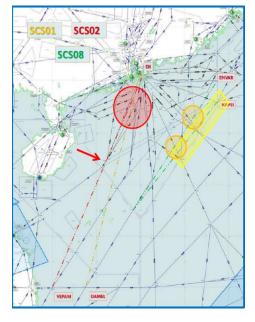
At SEACG/19: in WP09, Hong Kong China advised they had studied the proposal for track shortening and advised that allowing flights to proceed from M771 DUMOL to ELATO/ENVAR/KAPLI will likely create a bottle neck at these points and result in flights not getting optimum levels or increase ground delay to departures from Hong Kong and Macao to East Asia. However, Hong Kong China would continue to study this proposal. Most preferred: DULOP – ENVAR.

30/10/2020: Hong Kong China commented these two routes are too close to the Hong Kong and Manila FIR boundary (see the yellow shaded areas in the figure below). New confliction points would be created and the distance/time available for traffic resolution is not sufficient. There are safety concerns and these proposed routes were not recommended. Therefore, the two routes are not recommended.

At ATMSG/8: IATA preferred this route proposal to be retained in the Catalogue.

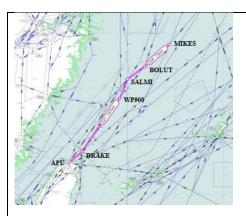
At SCSTFRG/13: Hong Kong China suggested to archive SCS08 to focus on the discussion to other feasible routes. IATA





explained that the proposal originated from	
member airlines wishing to connect Hong	
Kong China with north and southeast Asia.	
Prior to COVID-19, 42 flights per week	
were operated. IATA proposed extending	
the use of M771 to connect to KAPLI and	
ENVAR, noting that M771 is located very	
close to the FIR boundary, which raises	
safety concerns. IATA will continue to	
refine the proposal and provide updates in	
future meetings.	

ATS Route Name	TPE 01
State Priority	C
IATA Priority	HIGH
Requested by (when)	IATA (01/09/2018)
States/Administrations Involved	Taibei ACC, Japan (Taibei, Fukuoka FIRs)
Route Description	Anbu (APU) 2510.6N 12131.3E – New Waypoint
•	(FIR BDRY beween Taibei and Fukuoka) – MIKES
	2935.2N 12544.9E
Flight Level Band	28,000 – 46,000 ft
Benefit (fuel, environmental)	16 NM / 2 minutes, 107 kg fuel, 337 kg CO ₂ per
	flight, 1,168 tonnes fuel, 3,680 tonnes CO ₂ annually
Operational Information	BR, CI
(potential airlines, flight frequency, potential	210 flights per week
city pairs)	Southeast Asia/HKG/TPE – Fukuoka
Remarks : Supports traffic between APU and	
Japan.	
20/06/2010 1 + 6	
29/06/2019: update from Japan, this route was under consideration.	Mikes /
was under consideration.	
23/10/2020: Japan commented this proposal	
was under consideration. At ATMSG/8:	
IATA preferred this route proposal to be	
retained in the Catalogue.	THE THE TOTAL
Tomasso in the commegati	to the line of the the
16/09/2021: Based on information provided	
by the IFATCA, the proposed route TPE 01	
partially overlaps ATS route Q11 and several	APU
other ATS routes that already existed in the	
area, and therefore it was not possible to	
implement a new route in Taibei FIR.	
Counter-proposal: Northbound traffic: APU	
- A1 - DRAKE - Q11 - WP900 - L4 -	
LIPLO – Y741 – BOLUT – MIKES.	
Mikes	
BOLUT	
LipLo	
WP900	
A HARAL AND A	
APU DRAKE	
Southbound traffic: MIKES – BOLUT –	
B576 – SALMI – Q11 – DRAKE – APU.	



15/10/2021: Japan commented this proposal was still under consideration.

25/2/2022: Japan commented no progress at this stage, although this proposal is recognized as one of the business coordination projects by both Taibei and Fukuoka ACCs.

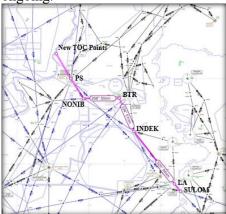
23/9/2022: IFATCA, the segment in the counter-proposal for both north and south already existing, the segment btw BOLUT and MIKES is subject to the Fukuoka FIR.

Chapter 4: Trans-Regional (South Asia)

(referred to States, SAIOSEACG and BOBTFRG for review)

ATC Doute Name	AEC 01
ATS Route Name	AFG 01
State Priority	MEDIUM
IATA Priority	
Requested by (when)	Afghanistan (03/08/2019: AIRARD TF/4)
States/Administrations Involved	Pakistan, Afghanistan (Lahore, Kabul FIRs)
Route Description	Peshawar (PS) 335841.50N 0713100.90E – SURVI
	350606.12N 0702512E
Flight Level Band	22.27.6 / 4
Benefit (fuel, environmental)	32 NM / 4 minutes, 400 kg fuel per flight, 957 tonnes fuel, 3,014 tonnes CO ₂ annually
Operational Information	AI, AY, TG
(potential airlines, flight frequency,	About 46 flights per week (some operating during
potential city pairs)	winter season only)
	HEL – BKK/SIN
Remarks: This is an alternative proposal	
to INDEK-BABEV-SURVI, which will	CALIGO
shorten the flight distance. Original	DOM DATE
proposal: IMTIL – SURVI.	\\\-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	SURVI
At ATMSG/7: Pakistan counter-proposed	DOCUMENT THE PROPERTY OF THE P
for this route via SURVI – Peshawer (PS).	A special contraction of the special contraction
Pakistan informed the meeting the	COLOGO BY
proposed route between SURVI and PS	OCH CONTROL OF THE PROPERTY OF
had been submitted to the relevant	NOTE THE PROPERTY OF THE PROPE
authorities of Pakistan for approval.	(Mocawaii)
17/08/2020: Pakistan informed this route proposal was still under consideration by the relevant authorities. At ATMSG/8:	(COC)
IATA assigned "MEDIUM" priority;	12.2
implementation benefits; and operational	COUNTY IN THE COUNTY OF THE CO
information. IATA also proposed to	
review the time restrictions LAJAK-	
SULOM (1500-2359Z) to make proposal	
beneficial to more traffic.	
At SAIOACG/10 and SEACG/27: Pakistan	
informed this route proposal was still under	
consideration by the military authority.	
15/09/2021: Pakistan informed that the	
military authorities of Pakistan had	
approved the following ATS route proposal	
(bi-directional), on the request of	
Tajikistan and Uzbekistan: SULOM –	
Lahore (LA) – INDEK – Islamabad (BTR)	
– NONIB – Peshawar (PS) – 343433N	
0710533E (new TOC points between	
Afghanistan and Pakistan). The above	
route proposal was under approval process	
of Pakistan Federal Government and	
coordination process with Afghanistan and	
Tajikistan regarding further route	
connectivity in Afghanistan airspace and	

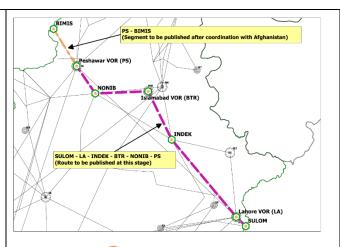
beyond from the new TOC points was ongoing.



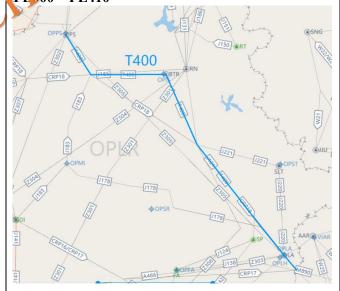
18/02/2022: Upon approval on a new RNAV bi-directional int. ATS route in Lahore FIR by the Federal Government of Pakistan, Pakistan requested a new RNAV Route designator to APAC RO awaiting the response from Afghanistan for futher connectivity in Kabul FIR (the last segment from Peshawar VOR to PAK/AFGHAN new TCP BIMIS (Lahore FIR)), and saving a joint PfA will be processed. In April 2022, the segment in Lahore FIR. Pakistan was established: SULOM - Lahore VOR - INDEK -Islamabad VOR (BTR) – NONIB – Peshawar VOR as the domestic route T400. Further route connectivity in Afghanistan airspace and beyond the new TOC points will be further discussed according to the situation in Afghanistan.

At BOBTFRG/4: Pakistan affirmed that airway T400 starting from point SULOM (TOC with India) - INDEK – NONIB – PS - BIMIS was already operational and available for flights at this stage after being approved by the relevant government authorities. Further connectivity to BIMIS (TOC with Afghanistan) was subject to the response from Afghanistan.

At SAIOSEACG/2: Pakistan preferred that this route proposal should be retained in the catalogue and be re-activated according to the situation in Afghanistan. Pakistan also affirmed that airway T400 starting from point SULOM (TOC with India) - INDEK – NONIB – PS providing connectivity with P500 (MOTMO-FIRUZ) was already operational and available for



SULOM – Lahort VOR – INDEK – Islamabad VOR (BTR) – JONIB – Peshawar VOR (PS) – BKMIS 3-3433N, 0710533E (<u>Pak/Afghan new</u> roposed TCP boundary waypoint), Vertical Limit F1360 – FL410



flights. The portion between PS-BIMIS is approved but further connectivity to/from PS-BIMIS (TOC with Afghanistan) is subject to the response from Afghanistan.

At BOBTFRG/5: discussions about route proposals involving Afghanistan were influenced by the current situation in the States. Given the sanctions and focus on restoring air traffic services in Afghanistan, it was suggested that these route proposals be held in abeyance or archived until further notice.

ATS Route Name	AFG 02
State Priority	С
IATA Priority	LOW
Requested by (when)	Tajikistan (03/08/2019: AIRARD TF/4)
States/Administrations Involved	Afghanistan, Tajikistan (Kabul, Dushanbe FIRs)
Route Description	TAPIS 343100.12N 0690900E – PINAX 371500N
	0690600E
Flight Level Band	
Benefit (fuel, environmental)	
Operational Information	
(potential airlines, flight frequency,	
potential city pairs)	
Remarks: Afghanistan commented that waypoint TAPIS is a converging point for two congested routes, and would review this proposal. At ATM/SG/8: IATA assigned "LCW" priority and recommended for deletion. Note: continuation of this proposal is 29.007 "TAPIS-PINAX-SORAM-TENRO" in RDGE Middle Asia ATS Route Catalogue.	PINAX TAPIS

ATS Doute Name	AFG 03
ATS Route Name	Ard 03
State Priority IATA Priority	HIGH
Requested by (when)	IATA (Either as the Afghanistan Contingency route
Requested by (when)	
States/Administrations Involved	plan /or as the airspace reopens for flight operations)
States/Administrations Involved	Pakistan, Afghanistan, Tajikistan (Lahore, Kabul, Dushanbe FIRs)
D4- D	Peshawar (PS) - BIMIS – DCT –370841N
Route Description	0692043E (new FIR crossing point between OAKX
	and UTDD) – DCT LIVDI and DCT NITNI
Flight Level Band	As suitable
Benefit (fuel, environmental)	Estimated Potential Savings Per Flight:
Benefit (1401, 611 virolinianum)	Compared to SITAX:
	71 NM equivalent to 700Kg fuel, 2.2Ton CO2
	Compared to LAJAK:
	41 NM equivalent to 400Kg fuel, 1.3Ton Co2
Operational Information	South Asia – Europe Traffic flow (bi-directional)
(potential airlines, flight frequency, potential	(or disconding)
city pairs)	
Remarks: Primarily intended for long-haul	
wide-body ULR (Ultra Long-Range) flights	
between South Asia.	
Tactical ATFM efforts. By offering an	
additional FIR crossing between Pakistan	
and Afghanistan, upon the reopening of	
Afghanistan's airspace, it could mitigate	
congestion at (OPLA-OAKX) FIR crossing	
points SITAX and LAJAK. Pakistan agreed	NATINI
to publish PS – BIMIS after coordination	
with Afghanistan (ref AFG 01 proposal	FIR Crossing point OAKX-UTDD
in the Route catalogue)	(3)
	P _P
At SAIOSEACG/3: IATA has suggested	
new air routes AFG 03, aiming to open a	BIMIS
new route through Kabul's airspace, linking	DC DC
Peshawar with waypoints in Dushanbe,	SITAX LAJAK
which could save up to 71 NM. This route	SILAN
would help reopen Afghanistan's airspace,	
reduce environmental impact, and ease	
congestion at critical crossing points.	
Targeted primarily at long-haul, wide-body	(BIMIS
flights, these proposals are part of broader	PS - BIMIS (Segment to be published after coordination with Afghanistan)
efforts to enhance air traffic management for	34/
improved efficiency and safety. Pakistan	Peshawar VOR (PS)
affirmed its readiness to enhance airspace	NONIB OF STATE OF STA
efficiency and mentioned the approval of the AFG 01 route from Peshawar to BIMIS.	Islamabad VOR (BTR)
However, due to the contingency situation in	
Afghanistan's airspace, further exploration	INDEK
of this route awaits Afghanistan's readiness.	SULOM - LA - INDEK - BTR - NONIB - PS (Route to be published at this stage)
IATA urged ICAO to consider updating this	Lycote to be published at this study
route as a contingency option or at a suitable	
time when Afghanistan's airspace stabilizes.	Lahore VOR (LA)
an space statinges.	SULOM

ICAO RSO agreed to seek assistance from the ICAO APAC office to explore the feasibility of the project.

At ATM/SG/12: Pakistan updated AFG-03 through email. They said that AFG-03, it is apprised that said proposal is similar to previous APAC Region ATS Route proposal AFG-01 in Pakistan airspace, the approvals of which are already taken. Pakistan is ready to establish this route from PS till BIMIS (transfer of control point between Pakistan and Afghanistan International Border), further connectivity from BIMIS onwards (as mentioned in AFG-03,APAC Region ATS route catalogue) is the sole responsibility of Afghanistan. Subject to availability of ATS infrastructure in Afghanistan and stabilization of Afghanistan airspace, the connectivity from PS till BIMIS will be established. IATA updated AFG 03 though email: The Afghanistan CAA has indicated a positive stance towards this route proposal; however, implementation will be considered only after the resumption of regular ATM services. The Pakistan and Tajikistan CAAs are affirmative for the necessary re-alignment of the airway.

At BOBTFRG/6: Given the current situation in Afghanistan, IATA and Pakistan agreed that they would discuss it further at the planned CCT meeting to explore the feasibility of the proposal.

At BOBTFRG/7: The meeting agreed for this route proposal to be further discussed when ATS in Kabul FIR was fully restored.

ATS Route Name	MID 02(a)
State Priority	D
IATA Priority	HIGH
Requested by (when)	AIRARD TF/2 (04/05/2018)
States/Administrations Involved	Iran, Pakistan, Afghanistan (Tehran, Karachi,
States/Hammistrations involved	Kabul, Lahore FIRs)
Route Description	Bandar Abbas (BND) 2711.8N 05622.0E – DAVEP 2742.4N 05720.1E – NABOX 2816.5N 05826.0E – PEKES 2859.5N 05952.3E – DANOV 2914.7N 06023.9E – ULOVI 2919.8N 06034.5E – PIRAN 2934.1N 06108.1E – OGOGO 3024.9N 06309.1E – LOVIT 3109.1N 06500.4E – PAROD 3129.0N 06554.0E – A453 – HANGU 3329.1N 07100.3E – Penshawar (PS) 3358.7N 07131.0E – G325 – Gilgit (GT) 3555.2N 0742.0.1E – G325 – PURPA 3656.5N 07524.4E
Flight Level Band	
Benefit (fuel, environmental)	40 N ₁ 4 / 3 minutes, 600 kg fuel per flight, 1,342
	onnes fuel, 4,262 tonnes CO ₂ annually
Operational Information	ÉK, EY, QR
(potential airlines, flight frequency, po ential	About 43 flights per week
city pairs)	
Remarks: High Priority MID 02 (a)	
preferred over MID 02 (b) if only one route	Flight Plan P Spd Mo82 Air 000 Fuel 0
is chosen.	Departure Destination
17/08/2020: The proposed entry into Pakistan airspace allows very minimal response time (less than two minutes) for traffic de-confliction at DOBAT and SITAX and other crosser routes. Pakistan proposed for deletion.	ETD Zull (HHMM) [MM/DD] (Cl. Local HHMM) [MM/D
At ATMSG/8: IATA assigned "HIGH" priority; implementation benefits; and operational information. IATA preferred this route to be retained in the Catalogue and commented this route could be used for contingency and for aircraft with limited oxygen requirements. At BOBTFRG/3: Pakistan re-affirmed that the proposed route was not feasible. BOBTFRG/4: Pakistan reaffirmed that the	
proposed route was not feasible and	

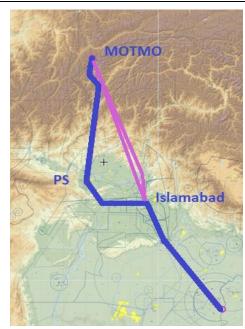
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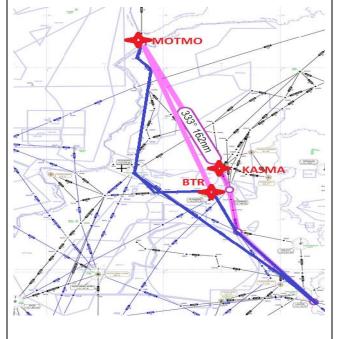
ATS Route Name	PAK 01
State Priority	
IATA Priority	HIGH
Requested by (when)	IATA (either by ATM/SG/12 or earlier)
States/Administrations Involved	Pakistan (Kabul FIR)
Route Description	Option 1: INDEK J121 RN J130 KASMA DCT MOTMO Option 2: INDEK T400 BTR (Islamabad) DCT MOTMO
Flight Level Band	As suitable
Benefit (fuel, environmental)	Estimated Potential Savings Per Flight: 50 NM, Equivalent to 500Kg Fuel, 1.6 Ton CO2
Operational Information (potential airlines, flight frequency, potential city pairs)	South Asia – Europe Traffic flow (bi-directional)

Remarks: This proposed air route will primarily cater to long-haul wide-body flights between South Asia and Europe. It will not only promise reductions in CO2 emissions but also enhance safety. By optimizing emergency diversion routes, especially over the Hindukush high terrain, it helps minimise critical passenger oxygen requirements in the event of rapid depressurization.

At SAIOSEACG/3: IATA suggested new air routes to improve flight efficiency between South Asia and Europe. PAK 01, includes two options that shorten the current Lahore FIR route by about 48 - 49 NM by using direct paths to MOTMO. These routes are expected to reduce CO2 emissions and increase safety by providing better options for emergency diversions over difficult terrain. Pakistan mentioned restructuring of ATS Route T400 (route connectivity with P500) back in 2022 to facilitate traffic avoiding Kabul FIR and, in this regard, referred to its A41-WP/68. Pakistan reiterated its commitment to safety and flight efficiency while acknowledging airspace constraints due to restricted and prohibited areas near the proposed route. Pakistan emphasised the need for a detailed assessment of the proposal. IATA expressed openness to suitable alterations and encouraged the exploration of opportunities.

At ATM/SG/12: Pakistan updated PAK-01 (Option-2) and (Option-1) through email. They said that PAK-01 (Option-2) the proposed ATS route passes through prohibited area OP/P226 and thus cannot be materialized. And PAK-01 (Option-1), the





proposed ATS route passes in close proximity to danger and prohibited areas, it is estimated that in case of inclement weather conditions, any diversions would cause violation of danger / prohibited areas and thus not a viable option either, keeping in view flight safety. Nevertheless, deliberation with stakeholders are underway for a workaround to make this proposed option safer for flight operations but it seems to be difficult for establishment of subject route. IATA also updated PAK 01 though email: Given that Afghanistan's airspace is likely to remain in contingency mode for some more time, IATA strongly urges the Pakistan CAA to consider authorizing PAK01 as an interim measure. It is requested that if required the route may be modified to account for the requirements of reserved/special use airspace, as well as to utilize the existing 'J' routes, which are already established for domestic operations.

At BOBTFRG/6: given the current situation in Afghanistan, IATA and Pakistan agreed that they would discuss it further to move forward.

At BOBTFRG/7: IATA requested Pakistan consider establishing the route at least on a contingency or opportunity basis, for example when there is no military activity, under Flexible Use of Airspace concepts. IATA also commented that this proposed route would improve options for weather avoidance and better use of jet streams, especially during periods of strong winds.

Chapter 5: Trans-Regional (East Asia)

(referred to States and ATM/SG for review)

ATS Route Name	FE0008 / RDGE 15.003 / APAC RUS 5
State Priority	С
IATA Priority	MEDIUM
Requested by (when)	Russia, IATA (01/09/2018)
States/Administrations Involved	Russia, Japan (Khabarovsk, Fukuoka FIRs)
Route Description	Implementation of two new bi-directional ATS routes:
	 a. SIBIR 432154.00N 1352024.00E – New Waypoint (FIR BDRY between Khabarovsk and Fukuoka) – New EKVIK Waypoint b. ARLAS 425906.00N 1343553.88E– New Waypoint (FIR BDRY between Khabarovsk and Fukuoka) – New EKVIK Waypoint
Flight Level Band	
Benefit (fuel, environmental)	No fuel gain but could help to reduce ground delays for HND/KIXNRT operations to Europe.
Operational Information	AF, BA, KL, LH
(potential airlines, flight frequency, potential	
city pairs)	
Remarks: To improve north-south traffic	PISKET VAT
flows between Khabarovsk FIR and	
Fukuoka FIR, Original SIBIR – LURED –	SIBIR
EKVIK proposal will be changed due to new	The state of the s
position of EKVIK further east as a result of	ARLAS
the planned airspace structure change in	
Japan, when both new ATS routes will be	
implemented, the existing B451 ARLAS – LAKTA – LURED – IGROD will be	
withdrawn. Based on the results from the	/+ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
coordination meeting between the Russian	
Federation and Japan in February 2017, the	
implementation could not be progressed as	
Japan indicated that no further airspace	EKVIK
changes for the Fukuoka FIR are acceptable	
before the 2020 timeframe (RDGE/27).	
Russian Federation: New waypoint needed	
404751N 1361021E (FIR Boundary),	
coordination with Japan (Fukuoka FIR)	
required. Alternative bi-directional route to	
EN15.	
23/10/2020: Japan commented no update.	
At ATMSG/8: IATA assigned "MEDIUM"	
priority and recommended for this route to	
be retained in the Catalogue.	
15/10/2021: Japan commented no update.	

ATS Route Name	FE0021 / RDGE 13.028 / APAC RUS 4
State Priority	С
IATA Priority	HIGH
Requested by (when)	Russia, IATA (01/09/2018)
States/Administrations Involved	Russia, Japan (Khabarovsk, Fukuoka FIRs)
Route Description	Implementation of new bi-directional ATS route:
	AVGOK – Niigata (GTC) 375729.90N
	1390653.60E
Flight Level Band	
Benefit (fuel, environmental)	20 NM / 4 minutes, 440 kg fuel per flight, 2,400
	tonnes fuel, 7,550 tonnes CO ₂ annually
Operational Information	AF, AY, JL, KL, NH
(potential airlines, flight frequency, potential	About 105 flights per week
city pair)	HND/NRT to Europe
Remarks: During a bilateral meeting	
between the State ATM Corporation and the	
JCAB Japan (in Tokyo, November 2012), <u>a</u>	Telled XIII
difference in coordinates of the AVGOK	POSESTATION OF SELVEN
waypoint was identified in the aeronautical	AVGOK
information publications of Russia and	XX 2 7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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. Based on the results from the coordination meeting between the	
Russian Federation and Japan in February	-///
2017, the implementation of the bi-	
directional ATS Route AVGOK – GTC	
requires further studies due to the involved	
military area. RDGE/27 meeting in 2017:	
could become a conditional route. Further	
discussion with Japan is required through the	
ICAO APAC Office. To reduce route	
distance of 13NM as compared to current	
routing AVGOK – KADBO – GTC.	
23/10/2020: Japan commented no update. At	
ATMSG/8: IATA assigned "HIGH" priority	
and recommended for this route to be	
retained in the Catalogue.	
15/10/2021 1	
15/10/2021: Japan commented no update.	

ATS Route Name	FE0049 / RDGE 20.010
State Priority	C
IATA Priority	
Requested by (when)	DPRK, Russia (01/09/2018)
States/Administrations Involved	Russia, DPRK (Khabarovsk, Pyongyang FIRs)
Route Description	Implementation of new uni-directional eastbound ATS route: KICHA 404103N 1291140E – ADNUR 421230N 1304810E – Vladivostok (KN) 432303N 1320708E
Flight Level Band	17,000 – 53,000 ft
Benefit (fuel, environmental)	
Operational Information (potential airlines, flight frequency, potential city pairs)	
Remarks: Planned implementation date as part of project in 2015. Khabarovsk/Vladivostok airspace reorganisation project, (in map No. 6)	WASAN SONDO WASAN

ATS Route Name	FE0050 / RDGE 20.011
State Priority	C
IATA Priority	
Requested by (when)	DPRK, Russia (01/09/2018)
States/Administrations Involved	Russia, DPRK (Khabarovsk, Pyongyang FIRs)
Route Description	Implementation of new uni-directional westbound ATS route for B355: Muraveyka (BG) 435303N 1331511E – VATIS 425143N 1320851E – TERNI 422213N 1314003E –BUMEP 415350N 1311255E – KICHA 404106N 1291140E
Flight Level Band Benefit (fuel, environmental)	18,000 – 51,000 ft
Operational Information (potential airlines, flight frequency, potential city pairs) Remarks: Planned implementation date as	Muraveyka BG /
part of project in 2015. Khabarovsk/Vladivostok airspace reorganisation project, (in map No. 7).	WASAN AND HAMUN SONDO WASAN AND HAMUN SONDO

ATS Route Name	FE0051 / RDGE 20.012
State Priority	C
IATA Priority	
Requested by (when)	DPRK, Russia (01/09/2018)
States/Administrations Involved	Russia, DPRK (Khabarovsk, Pyongyang FIRs)
Route Description	Implementation of new uni-directional eastbound ATS route segment: MESOV 383800N 1302300E –
	ADNUR 421230N 1304810E
Flight Level Band	29,000 – 53,000 ft
Benefit (fuel, environmental)	
Operational Information (potential airlines, flight frequency, potential city pairs)	
Remarks: Planned implementation date as part of project in 2015. Khabarovsk/Vladivostok airspace reorganisation project, (in map No. 8). Implementation has not progressed as the connection/ continuation of this ATS route (implemented ATS routes end at FIR border over High Seas) into Incheon FIR still missing. No information was received from DPRK and South Korea (ROK) via the ICAO APAC Office. Implementation could not be progressed as no information from DPRK at RDGE/28.	WASAN SONDO WASAN

ATS Route Name	FE0052 / RDGE 20.013
State Priority	C
IATA Priority	
Requested by (when)	DPRK, Russia (01/09/2018)
States/Administrations Involved	Russia, DPRK (Khabarovsk, Pyongyang FIRs)
Route Description	BUMEP 415350N 1311255E – MESOV 383800N
	1302300E
Flight Level Band	28,000 – 51,000 ft
Benefit (fuel, environmental)	
Operational Information (potential airlines, flight frequency, potential city pairs)	
Remarks: Khabarovsk/Vladivostok airspace re-organisation project, (in map No. 9). Implementation has not progressed as the connection/ continuation of this ATS route (implemented ATS routes end at FIR border over High Seas) into Incheon FIR still missing. No information was received from South Korea (ROK) via the ICAO APAC Office. Implementation could not be progressed as no information from DPRK at RDGE/28.	WASAN A HAMUN SONDO INCHEON FIR SIS 38 80 N 130 23 00E MUTAVEYRA BG WASAN A HAMUN RASON Proposals for discussion: - to withdraw; - to establish

ATS Route Name	FE0053 / RDGE 20.014
State Priority	C
IATA Priority	
Requested by (when)	DPRK, Russia (01/09/2018)
States/Administrations Involved	Russia, DPRK (Khabarovsk, Pyongyang FIRs)
Route Description	New G711 BISUN 431400N 1311148E – TERNI
	422213N 1314003E – RIVAT 412900N 1321600E
Flight Level Band	21,000 – 53,000 ft
Benefit (fuel, environmental)	
Operational Information (potential airlines, flight frequency, potential city pairs)	
Remarks: Khabarovsk/Vladivostok airspace re-organisation project, (in map No. 10). Note: to verify has this route been implemented as G705?	WASAN AND THAMUN SONDO NCHEON FIR AS SON ON 130 23 00E MUTAN MUTAN AND THAMUN SONDO NCHEON FIR AS SON ON 130 23 00E MUTAN MUTAN AND THAMUN SONDO NCHEON FIR AS SON ON 130 23 00E NCHEON FIR AS SON ON 130 23 00E

ATS Route Name	FE0054 / RDGE 20.015
State Priority	C
IATA Priority	
Requested by (when)	DPRK, Russia (01/09/2018)
States/Administrations Involved	Russia, DPRK (Khabarovsk, Pyongyang FIRs)
Route Description	Implementation of new bi-directional ATS route: RIVAT 412900N 1321600E – MESOV 383800N 1302300E
Flight Level Band	21,000 – 53,000 ft
Benefit (fuel, environmental)	
Operational Information (potential airlines, flight frequency, potential city pairs)	
Remarks: Khabarovsk/Vladivostok airspace re-organisation project, (in map No. 11). Planned implementation date 11 December 2014. Note: to verify has this route been implemented as N513?	WASAN SONDO WASAN

ATS Route Name	FE0055 / RDGE 20.016
State Priority	C
IATA Priority	
Requested by (when)	DPRK, Russia (01/09/2018)
States/Administrations Involved	Russia, DPRK (Khabarovsk, Pyongyang FIRs)
Route Description	Implementation of new bi-directional ATS route: NULAR 405912N 1341100E – MESOV 383800N 1302300 ^E
Flight Level Band	28,000 – 53,000 ft
Benefit (fuel, environmental)	
Operational Information (potential airlines, flight frequency, potential city pairs)	
Remarks: Khabarovsk/Vladivostok airspace re-organisation project, (in map No. 12). Planned implementation date 11 December 2014. Note: to verify has this route been implemented as L771?	WASAN SONDO WASAN

ATS Route Name	FE0056 / RDGE 20.017
State Priority	C
IATA Priority	
Requested by (when)	DPRK, Russia (01/09/2018)
States/Administrations Involved	Russia, DPRK, Japan (Khabarovsk, Pyongyang,
	Fukuoka FIRs)
Route Description	Implementation of new bi-directional ATS route
	segment:
	RIVAT 412900N 1321600E – New Waypoint (FIR
	BDRY between Pyongyang and Fukuoka)
Flight Level Band	
Benefit (fuel, environmental)	
Operational Information	
(potential airlines, flight frequency, potential	
city pairs)	
Remarks: Khabarovsk/Vladivostok airspace re-organisation project, (in map No. 13), for further discussion with JCAB, Japan. Planned implementation date as part of project in 2015. Implementation could not be progressed as no information from China at RDGE/28.	WASAN HAMUN WASAN SONDO WASTAN AGUAN WASAN HAMUN WASAN SONDO WASA

Chapter 6: Trans-Regional (Mid Asia)

(referred to States, RDGE, SAIOSEACG and SCSTFRG for review)

ATS Route Name	RDGE-TRANS-REGIONAL MID-ASIA 01
State Priority	A
IATA Priority	HIGH
Requested by (when)	Kazakhstan (RDGE-SCM/2024)
States/Administrations Involved	Kazakhstan & China (Almaty & Urumqi FIRs)
Route Description	Unidirectional Eastbound:
	TITIL - XXXXX – TOGDI - 470156N 0771253E –
	AGAKA - 461611N 0823512E (new FIR boundary
	waypoint) – SALMO.
Flight Level Band	With Minimum Obstacle Clearance of 2000 ft,
	segment from AGAKA at coordinates 461611N
	0823512E is set at 8800 ft.
Benefit (fuel, environmental)	Fuel savings: 25 194 l, CO2 reduction: 63 993 kg
Operational Information	Objectives:
(potential airlines, flight frequency)	1. Ease congestion in Astana FIR Sector A1C,
	Shymkent FIR Sector A1I (heavily loaded) &
	Almaty FIR Sector A3A.
	2. Provide an alternative route utilizing different
	FIR boundary crossing points and sector
	intersections.
	3. Significantly distance transit flow from busy
	airports such as Almaty and Astana, which, in turn,
	will reduce controller workload, enhance flight
	safety, and improve overall air traffic management
	efficiency.
	4. Allow air traffic controllers to use altitude
	change procedures more flexibly, simplifying
	management across different ATS route segments.
	Anticipated traffic shifts: approx. 1307 flts/mth
	1. 40% from N161 and BORIS – RULAD, and
	2. 80% from BORIS – SARIN and BALUN –
Describes Comments 11	SARIN.
Remarks: Supported by major airlines such	
as All Nippon Airways (ANA), KLM, EgyptAir, and Finnair.	
EgyptAll, and Filliall.	
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ATS Route Name	RDGE-TRANS-REGIONAL MID-ASIA 02
State Priority	A
IATA Priority	HIGH
Requested by (when)	Kazakhstan (RDGE-SCM/2024)
States/Administrations Involved	Kazakhstan & China (Almaty & Urumqi FIRs)
Route Description	Unidirectional Eastbound
•	GENGA - 462546N 0782244E – AGAKA -
	461611N 0823512E (new FIR boundary waypoint)
	– SALMO.
Flight Level Band	With a Minimum Obstacle Clearance of 2000 ft, the
	segment from AGAKA at coordinates 461611N
	0823512E is set at 8800 ft.
Benefit (fuel, environmental)	Distance: 325.7 NM, Savings: 14.7 NM, Fuel
	savings: 187 l, CO2 reduction: 474 kg
Operational Information	Objectives:
(potential airlines, flight frequency)	1. Ease controller workload in Almaty FIR Sector
	A4A.
	2. Creates options for two corridors, BALUN and
	BORIS.
	3. Reduces load on the TOMGO waypoint,
	Shymkent FIR, Sector A1I, and Almaty FIR Sector
	A3A.
	4. Creates options compared to the existing ATS
	routes, i.e. BORIS – SARIN and BALUN – SARIN.
	Anticipated traffic shifts: 1. 80% from BORIS-SARIN – approx. 417
	flts/mth;
	2. 40% from BALUN-SARIN – approx. 230
	flts/mth.
Remarks:	Tito, min.
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	461611N 0823512E SALMO
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ATS Route Name	RDGE-TRANS-REGIONAL MID-ASIA 05
State Priority	B/C
IATA Priority	HIGH/MEDIUM/LOW
Requested by (when)	Kazakhstan (RDGE-SCM/2024)
States/Administrations Involved	Kazakhstan & China (Almaty & Urumqi FIRs)
Route Description	Bidirectional
Route Description	BAMAN-WUR
Flight Level Band	DAMAN-WOK
Benefit (fuel, environmental)	Objectives:
Bellett (fuel, environmentar)	 total flight distance from SUBUT to GOVSA is reduced by 1 NM. reduce the load on the SARIN waypoint, Almaty FIR Sector A4A, and the RULAD waypoint in Sector A3A. will attract air traffic from the BORIS – SARIN corridor, which in turn will ease the workload in the Shymkent FIR, Sector A1I.
Operational Information (potential airlines, flight frequency)	Benefits: 1. total length of 2281.5 NM (4225 km), serves as an alternative to several existing routes, such as N161 with a distance of 2282.4 NM (4227 km), BORIS – SARIN with a distance of 2335.4 NM (4325 km), and BALUN – SARIN with a distance of 2307.4 NM (4273 km). 2. The new ATS route is 0.9 NM (2 km) shorter than N161, 53.9 NM (100 km) shorter than BORIS – SARIN, and 25.9 NM (48 km) shorter than BALUN – SARIN. Anticipated traffic shifts: 1. 10% from N161, 2. 60% from BALUN-SARIN, and 3. 80% from BORIS-SARIN - approximately 542 flights per month.
Remarks:	approximately 5 12 mg/m per month.
SOLID STORY	New Existing December D

ATS Route Name	RDGE-TRANS-REGIONAL MID-ASIA 08
State Priority	A/B
IATA Priority	HIGH/MEDIUM/LOW
Requested by (when)	Kyrgyzstan (RDGE-SCM/2024)
States/Administrations Involved	Kyrgyzstan & China (Bishkek & Urumqi FIRs)
Route Description	Bidirectional
	Osh [OSH] – Kashi [KHG]
Flight Level Band	
Benefit (fuel, environmental)	
Operational Information	
(potential airlines, flight frequency)	
Remarks:	
OSH	KHG KHG
W V	New Existing

Chapter 7: Pacific

(referred to States and ATM/SG for review)

ATS Route Name	WPC 01
State Priority	D
IATA Priority	HIGH
Requested by (when)	IATA (30/07/2018)
States/Administrations Involved	Papua New Guinea, Indonesia, USA, Philippines,
	Japan, Taibei ACC (Port Moresby, Ujung Pandang,
Danta Dagarintian	Oakland Oceanic, Manila, Fukuoka, Taibei FIR)
Route Description	Port Moresby (PY) 0927.2S 14712.9E – Vanimo (VNO) 0240.7S 14118.2E – Koror (ROR) 0722.1N
	13433.0E – ENDAX 1415.0N 13000.0E – BISIG
	2027.0N 12500.0E – TINHO 2421.2N 12201.7E
Flight Level Band	FL250 – FL430
Benefit (fuel, environmental)	163 NM / 15 minutes, 1,604 kg fuel, 5,053 kg CO ₂ ,
Denote (1961, 611 virolinienar)	5,000 tonnes fuel, 15,700 tonnes CO ₂ annually
Operational Information	60 flights per week
(potential airlines, flight frequency, potential	Taibei and beyond – Australia, New Zealand, and
city pairs)	Papua New Guinea
Remarks: BISIG replaces the waypoint that	TALENDA TO A AMERICA
was published in the ICAO route catalogue	
as that waypoint no longer exists. May also	
be useable as an offload route for flights	
between Manila and Australasia.	
	TINHO
At ATM/SG/6: PNG positive, Indonesia	
positive, Japan was reviewing, Philippines	BISIG
and Taibei yet to be discussed. At	
ATMSC/7. Under consideration by	ENDAX
ATMSG/7: Under consideration by Philippines.	
r imppines.	ROR
17/01/2020: Philippines supported the	
implementation of this route.	
impromented of the fourth	o VNO
23/10/2020: Japan commented this route	
proposal was under consideration.	PY
16/09/2021: Based on information provided	
by the IFATCA, implementation of this	
proposed route in Taibei FIR was not	
possible because it would cross ATS routes	
G581 and Q13, and traverse restricted area	
RCR 17. Proposed for deletion.	
15/10/2021	
15/10/2021: Japan commented this route	
proposal was still under consideration.	
25/2/2022: Ionan commented to discussion	
25/2/2022: Japan commented no discussion, but if necessary it would be put on the	
agenda at future meeting.	
agonda at future incetting.	
23/9/2022: IFATCA, this proposal requires	
further coordination with the military.	
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