

ATInternational Civil Aviation Organization

Thirteenth Meeting of the Air Traffic Management Sub-Group (ATM/SG/13) of APANPIRG

Singapore, 25 – 29 August 2025

Agenda Item 6: ATM Coordination (Meetings, Route Development, Contingency Planning)

ASIA/PACIFIC REGION ATS ROUTE CATALOGUE

(Presented by the Secretariat)

SUMMARY

This paper presents the *Asia/Pacific Region ATS Route Catalogue* for review and update by the meeting.

1. INTRODUCTION

- 1.1 The Asia/Pacific Region ATS Route Catalogue has been under continuous review since the Fourteenth Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/14) in August 2004, following the establishment of the ATS Route Network Review Task Force (ARNR/TF) under Conclusion 14/5. The primary objective of this initiative is to identify and assess both current and future route requirements within the Asia/Pacific ATS route network. This ongoing effort is carefully aligned with evolving regional and global aviation roadmap.
- 1.2 The purpose of this paper is to provide the meeting with an update on the current status of the *Asia/Pacific Region ATS Route Catalogue*, recent amendments, and ongoing coordination activities with relevant regional groups and States. This paper consolidates the outcomes of the BOBTFRG/6, SAIOSEACG/4, and SCSTFRG/13 meetings, as well as progress made in the context of EUR–APAC interface coordination.
- 1.3 The Asia/Pacific Region ATS Route Catalogue serves as a central reference for regional route development initiatives, supporting ICAO's objectives to enhance operational efficiency, environmental performance, and network connectivity. The most recent version (i.e. Version 24.4) incorporates updates designed to align with these objectives while addressing the evolving traffic demands and operational challenges across multiple sub-regions. The Asia/Pacific Region ATS Route Catalogue Version 24.4 is available at the ICAO Asia/Pacific Regional Office eDocuments webpage (APAC Electronic Documents).

2. DISCUSSION

2.1 The ICAO Asia and Pacific Regional Sub-Office has engaged with relevant States and Administrations via email to collect the latest information on route proposals. During the SAIOSEACG/4 meeting held in March 2025, participants discussed selected ATS route proposals from the *Asia/Pacific Region ATS Route Catalogue*. Feedback received and subsequent updates have been incorporated into the most recent version of the *Asia/Pacific Region ATS Route Catalogue* (i.e. Version 24.4), as provided in **Appendix A**.

- 2.2 The *Asia/Pacific Region ATS Route Catalogue*, presented at BOBTFRG/6 (WP/06), introduced updated proposals and categorizations consistent with efficiency and environmental goals. Two ATS route proposal (i.e. PAK01 and AFG03) remain under review by IATA and Pakistan, with AFG03 scheduled for further consideration.
- 2.3 The SAIOSEACG/4 (WP/13) addressed that specific proposal updates are as follows:
 - a) SCS11: IATA proposed the removal of the IPRIX–VIGEN segment to allow Viet Nam's counter-proposal to progress;
 - b) SEA12: Archived to concentrate efforts on A1 parallel ATS route; may be reactivated if A1 parallel ATS route do not proceed;
 - c) MEKONG 01 (VPH-ROT-PNH): Agreed implementation under RNAV2 Conditional Route (CDR) with a Minimum Flight Altitude (MFA) of FL270; proceeding to implementation planning; and
 - d) Version 24.3 additions include MEKONG 02 (NAN–SAGAG), MEKONG 03 (BASIT–UPNEP), BOB 03 (BIMT Phase 2b), and RDGE-TRANS-REGIONAL items MID-ASIA 01, 02, 05, and 08.
- 2.4 During SCSTFRG/13, the following updates were recorded:
 - a) SCS 01 and SCS 02: Retained pending further IATA review;
 - b) VIET NAM 02: China reaffirmed the A1 parallel route as a top priority, supported by Viet Nam;
 - c) SCS 20 and SCS 21: Coordination to continue between Indonesia and Malaysia;
 - d) MEKONG 02: China scheduled a Q4 2026 technical coordination meeting with Lao PDR and Thailand to finalize route design and implementation timelines;
 - e) MEKONG 03: Cambodia and Thailand progressing through Phase 1, with further discussions at the next Mekong ATM Coordination Group Meeting;
 - f) IATA 02: Archived; CDR implementation to be considered when feasible; and
 - g) SCS 08: IATA to revise the proposal to extend M771 to KAPLI/ENVAR, taking into account boundary-proximity safety concerns.
- 2.5 Regarding the EUR-APAC interface (SAIOSEACG/4 WP/14 and WP/15), the RDGE reported traffic growth of up to 30 percent in certain sectors, with seven Middle-Asia proposals implemented and 15 newly approved. High-priority cross-regional initiatives requiring Asia/Pacific coordination include new eastbound connections between Kazakhstan and China. China reported progress on new China-Kyrgyzstan entry/exit points, engagement with Kazakhstan on technical matters, and ongoing work to parallelize ATS route W66. IATA noted traffic growth exceeding 500 percent in certain FIRs between 2022 and 2024 and proposed new efficient routes in the ZWUQ and ZMUB FIRs.
- 2.6 For the Bay of Bengal region, BIMT Phase 2b (BOB 03) route development between Thailand and Myanmar is progressing, with PBN RNAV2/RNAV10 specifications agreed while retaining the conventional G473–MAKAS route for non-PBN aircraft. India has requested further technical analysis regarding Bangladesh danger-area proximity, route spacing, navigation specifications, fleet capability, etc.

3. ACTION BY THE MEETING

- 3.1 The meeting is invited to:
 - a) note the information contained in this paper;
 - b) review and update relevant information in Version 24.4 of the *Asia/Pacific Region ATS Route Catalogue* at **Appendix A**;
 - c) encourage States/Administrations/International Organizations to provide timely updates and feedback on proposals requiring further coordination; and

d) discuss any relevant matters as appropriate.

ASIA/PACIFIC REGION ATS ROUTE CATALOGUE

INTERNATIONAL CIVIL AVIATION ORGANIZATION ASIA/PACIFIC REGIONAL OFFICE

VERSION 24.4

July 2025

Table of Contents

Table of Contents	2	
Foreword	4	
Amendment Record		
Chapter 1: South Asia	8	
HIMALAYA 02		9
IND 07 (N877 Extension)		14
BOB 01		16
BOB 02		21
BOB 03		21
Chapter 2: Southeast Asia	24	
SCS 01		25
SCS 02		27
SCS 11		29
SCS 14		32
SCS 15		33
SCS 16		34
SCS 18		35
SEA 12		36
VIET NAM 02		37
SCS19		39
SCS20		40
SCS21		41
SCS22		
SCS23		_
MEKONG 01		
MEKONG 02		
MEKONG 03		48
Chapter 3: East Asia		
CHA 01		
CHA 02		
CHA 12		
IATA 02		
SCS 08		
TPE 01		56
Chapter 4: Trans-Regional (South Asia)		
AFG 01		
AFG 02		
MID 02 (a)		
PAK 01		
AFG 03		67
Chapter 5: Trans-Regional (East Asia)		
FE0008 / RDGE 15.003 / APAC RUS 5		
FE0021 / RDGE 13.028 / APAC RUS 4		
FE0049 / RDGE 20.010		
FE0050 / RDGE 20.011		
FE0051 / RDGE 20.012		
FE0052 / RDGE 20.013		/ /

ATM/SG/13 – WP/41 Appendix A

FE0053 / RDGE 20.014	78
FE0054 / RDGE 20.015	79
FE0055 / RDGE 20.016	80
FE0056 / RDGE 20.017	81
Chapter 6: Trans-Regional (Mid Asia)	82
RDGE-TRANS-REGIONAL MID-ASIA 01	
RDGE-TRANS-REGIONAL MID-ASIA 02	84
RDGE-TRANS-REGIONAL MID-ASIA 05	85
RDGE-TRANS-REGIONAL MID-ASIA 08	86
Chapter 7: Pacific	87
WPC 01	

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/Pages/default.aspx).
- 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); and Chapter 6: 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	SAIOACG/1	Reviewed and updated the Catalogue.
	2011		
11	22 June 2012	ATM/AIS/SAR/SG/22	Reviewed, reformatted, and updated the
		APANPIRG/23	Catalogue, approved by
			APANPIRG/23.
12	26 June 2013	SAIOACG/SEACG,	Reviewed, reformatted, and updated the
		ATM/SG	Catalogue, approved by
			APANPIRG/24.
13	11 September	SAIOACG/SEACG,	Reviewed subsequent to Easter Island
	2014	ATM/SG	being transferred out of the Region;
	~	APANPIRG/25	added trans-regional proposals
14	September 2015	SAIOACG/SEACG,	Removal of Chapter A (BANP routes).
		ATM/SG	
1.5	g . 1 2015	APANPIRG/26	D 1 1 1 1 2 2 2
15	September 2016	SAIOACG/SEACG,	Reviewed and updated the Catalogue.
		ATM/SG	
1.6	A + 2017	APANPIRG/27	Deviewed and are take 14th C + 1
16	August 2017	SAIOACG/SEACG,	Reviewed and updated the Catalogue.
17	Camba1 2010	ATM/SG	Davisonal and and the Left C + 1
17	September 2018	SAIOACG/SEACG,	Reviewed and updated the Catalogue,
		ATM/SG	incorporated IATA inputs, added State
10	A mil 2010	SAIOACC/0	and IATA priority label.
18	April 2019	SAIOACG/9, SEACG/26	Reviewed and updated the Catalogue.
		SEACU/20	

19	September 2019	ATMSG/7,	Reviewed and updated the Catalogue.
		AIRARD TF/4	
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	Reviewed and updated the Catalogue.
	March 2025	SAIOSEACG/4	Newly incorporated the Chapter 6 as
	July 2025	SCSTFRG/13	duly discussed ICAO EUR/NAT inputs
			on RDGE-TRANS-REGIIONAL MID-
			ASIA and new ATS routes (MEKONG
			02 & 03 and BOB 03), and added States
			and IATA proposals and opinions.
			Reviewed and updated the Catalogue.

Chapter 1: South Asia

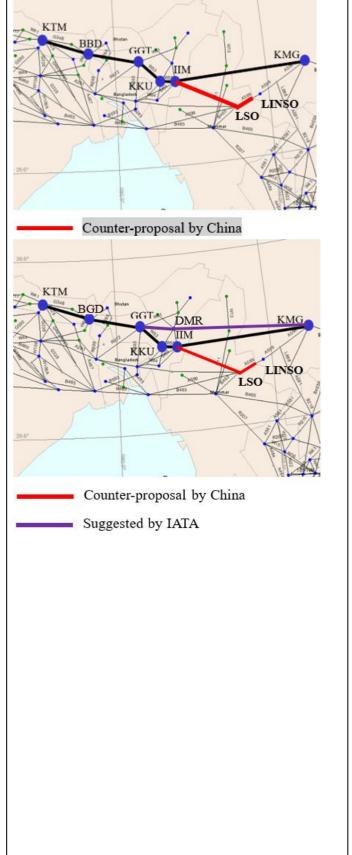
(referred to: SAIOACG, BOBASIO, ASIOACG as appropriate for review)

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
	(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
	11 74774
	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	0904050.29E - Kullilling (KIVIO) 2501N 10244E
Benefit (fuel, environmental)	110 NM / 15 minutes, 520 kg fuel, 1640 kg CO ₂ per
Benefit (ruei, environmentar)	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	30.0*
route will be considered as part of the	W. KTM
overall China route review – no timeline	G348 BRD Shutan
was given. China advised that they would	KMG
seriously look at the proposal and would	IIIM
coordinate with Nepal (ref. para 8.4 of the	KKU Bangladen Meg S
SEA-RR/TF/4 report). At SAIOACG/9: with the improvement of surveillance	8465
capability, Myanmar would review this	B465 Mahmai B465 & B
proposal. At ATMSG/7: Under	80.
consideration by China; and Myanmar	20.0°
commented this route proposal would be	The state of the s
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	
A I IVI/50/6. III TESPOIISE to CIIIII a S	

ATM/SG/13 – WP/41 Appendix A

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 reassessment 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. 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 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.



[Map provided by ICAO]

ATM/SG/13 – WP/41 Appendix A

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

During the meeting, Nepal suggested that the Hymalaya02 route should remain in this catalogue. In response, the Regional Sub-Office will continuously discuss it within the ATS route catalogue.

At SAIOSEACG/3,

Nepal introduced the Himalaya-2 route at the meeting, emphasising its 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 RSO.

Before the SAIOSEACG/4 meeting, 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.



Himalaya 2 as New Proposal by Nepal

Appendix A	
ATS Route Name	IND 07 (N877 Extension)
State Priority	D
IATA Priority	MEDIUM
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	SOKAM
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	SERKA
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,	m
complementary action from Pakistan	PRA
awaited. 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.	

archived and reintroduced if/when future possibilities permit its success. BOBTFRG/4: Pakistan reaffirmed that the proposed route was not feasible and supported archiving this proposal for future possibility, and IATA had no objection.	1/3/2022:IATA wants this proposal to be
BOBTFRG/4: Pakistan reaffirmed that the proposed route was not feasible and supported archiving this proposal for future	
supported archiving this proposal for future	BOBTFRG/4: Pakistan reaffirmed that the

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: Eastbound: 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 pril arr) and FL310 as secondary)
Benefit (fuel, environmental)	Option 1: Narrow body flext: ANM / 12 minutes, 456 kg fuel, 1.5 tonnes CO ₂ per flight, 166 tonnes fuel, 548 tonnes CO ₂ annually Was bridge 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 annually
Operational Information	About 110 flights per week
(potential airlines, flight frequency,	Africa/South Asia – Far East, Southern India – East Coast of
potential city pairs)	the United 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).

(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.

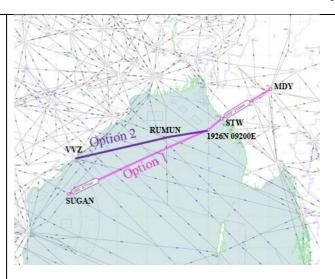
India stated this would improve the availability of getting optimum flight levels (well covered by SUR and VHF in Kolkata FIR) and require the approval of Bangladesh and Myanmar.

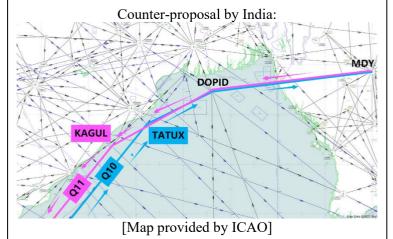
ATMSG/10: Bangladesh commented that India's counterproposal overflies the designated established military areas, so Bangladesh needs to consult with the military authorities.

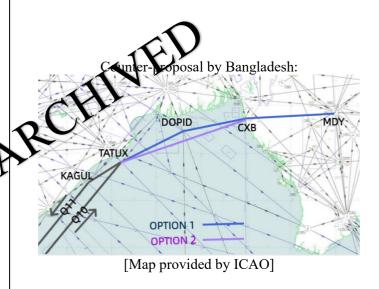
BOBTFRG/4: Bangladesh noted that the consultation with the military authority was still under process. To avoid the Danger area, two more alternative options are proposed with a connection to the new DVOR (Cox's Bazar, CXB), which is under construction and would be available in three months, detailed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







Counter-propasal by IATA:

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

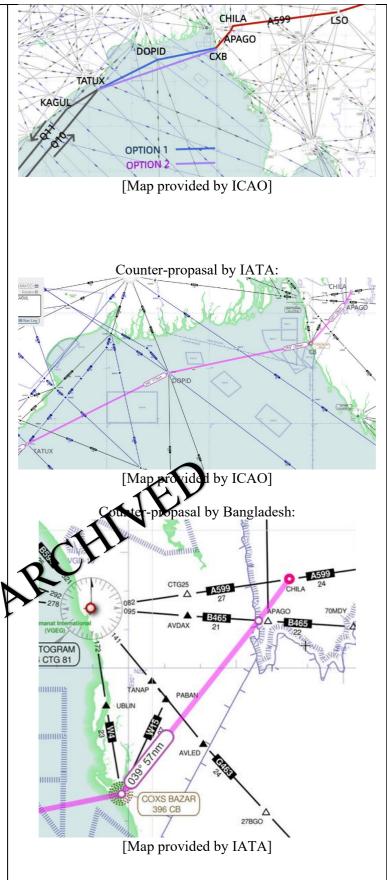
Before SAIOSEACG/2, all stakeholders had extensive discussion on the BOB01. IATA affirmed its proposal:
A599 – CHILA - APAGO – CB (Coxs Bazar) – DOPID –
TATUX - KAGUL Q11.
Bangladesh suggested to skip the waypoint "APAGO".

At the 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 FIR.

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.

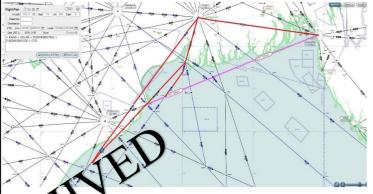
At the BOBTFGR/5, The discussion highlighted the near-finalization of new route proposals involving Bangladesh and India. The meeting was informed that the Route designator has been approved as P632.

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 the SAIOSEACG/3 meeting Bangladesh and India presented the update of establishing BOB 01 route.

It was intimated that Bangladesh and India have already conducted a safety assessment in the second week of April. The PfA has 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



Formall, agreed BOB01 Route Proposal (Pink line – Agreed Direct Route, Red lines – Present routes)

$\begin{array}{l} ATM/SG/13 - WP/41 \\ \textbf{Appendix A} \end{array}$

by both countries, which will be a part of a regional network of ATS Routes.	

ATC Doute Name	DOD 02
ATS Route Name State Priority	BOB 02
· · · · · · · · · · · · · · · · · · ·	HIGH
IATA Priority	
Requested by (when) States/Administrations Involved	IATA (05/11/2021: ATM/SG/9)
	India, Bangladesh, Myanmar (Kolkata, Yangon FIRs)
Route Description	KAKID 203833N 0865951E – TEBOV 202504N
	0915949E – Mandalay (MDY)
	Committee In Pro-
	Counter proposal by India:
	Eastbound: Q10 - TATUX - DOPID - MDY.
EP-1-4 I I D I	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 fleet: 50 NM / 6 minutes, 450 kg fuel, 1.5
	tonnes CO ₂ per flight, 64 tonnes fuel, 548 tonnes CO ₂
O 4. II 6 4.	annually
Operational Information	About 10 fights per week
(potential airlines, flight frequency,	Afric VS uth Asia – Far East, Southern India – East
potential city pairs)	Coast of the United States
Remarks: The proposed route works	
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	MDY
better assessment, India requested	
IATA to provide the analysis of the	KAKID
fleet equipage in ADS-C/CPDLC and	TEBOV
PBCS.	
TBCS.	
(08/08/2022)India in its assessment on	
BOB01 & BOB02 commented the	
proposed routes are outside the SUR	
and VHF coverage imposing	1711 Low May
unnecessary restrictions for all other	
cross-cutting routes. Therefore	Counter-proposal by India vs original proposal by
proposed alternatives as below:	IATA:
Eastbound aircraft via Q10: TATUX -	
DOPID - MDY. Westbound aircraft:	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
MDY - DOPID - KAGUL - Q11. India	MOY
stated this would improve the	KAKID DOPID
availability of getting optimum flight	TEBOV
levels (well covered by SUR and VHF	
in Kolkata FIR) and require the	KAGUL
approval of Bangladesh and Myanmar.	
ATMSG/10: Bangladesh commented	
that India's counter-proposal overflies	
the designated established military	TM 11 10 101
areas, so Bangladesh needs to consult	[Map provided by ICAO]
with the military authorities.	
,	

ATM/SG/13 - WP/41Appendix A

(16/11/2022) In response to India's concerns about SUR and VHF coverage, 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. BOBTFRG/4: Considering the complexity and constraints in the area, Bangladesh and India wanted to focus on Bangladesh's counter-proposes for BOB 01 in the first place.

Since the SWG has prioritised the BOB01 as the primary task, it was proposed by IATA that BOB02 to be archived for future possibility.

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

At the 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

Possible route overflies VGD-31(permanently removed):

VGD-31

[Map provided by IATA]

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	Myanmar and Thailand (Yangon and Bangkok FIRs)
Involved	
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	Tender (102010 11777 101012)
Benefit	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)
Remarks: At the SAIOSEACG/4	
meeting, this proposal is newly	
incorporated.	
Concerned States are realigning of	
N895/P646 between PTN – BKK	
and designating as bi-directional	BGO A551 A561 FRENCA SARIMATE PA
route for overflight traffic and G463	GA72 BOMAS STATE OF THE STATE O
between BGO-BKK, and	PTN HGU LATAD MAKAS CATT AND THE COLUMN TO THE CATT
designating it a uni-directional	MM TUST SANKA IN POL
RNAV2/RNAV10 route serving	ARATO BERDON S
eastbound PBN-capable traffic.	PUMEK
BIMT Phase 2b (Myanmar	FIR
- Thailand Route Development)	POXEN COBAP TL NOE
aims to further optimize air traffic	NUNCE NO POXEM BE RESERVED NUNCEN S LB
flows between Myanmar and Thailand. The route will be	L301 HORIN CCCCC
Performance-Based Navigation	KORUP NURDA A MICHAEL DE LES MICHAEL
(PBN) (RNAV2 or RNAV10).	1301 L301
Myanmar and Thailand agreed to	TANEK PASTO BONYO BKX
continue implementation efforts	
during BIMT/8 (Nov 2024).	
2021).	

Chapter 2: Southeast Asia

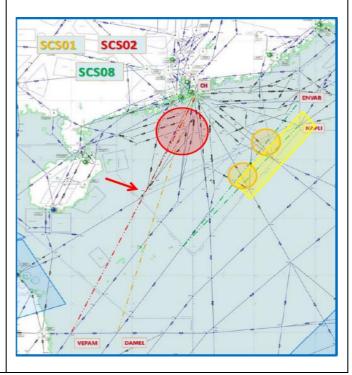
(referred to SEACG for review)

	ATM/SG/13 – WP/41 Appendix A
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 (fuel, 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,	More than 100 flights per week
potential city pairs)	SIN – Pearl River Delta airports
Remarks: Proposed route shortening for	
M771 into the Pearl River Delta area.	CF
During SEACG/19 in WP09 Hong Kong	
China advised they had studied the	
proposal for track shortening and advised	
the proposed change would reduce	
capacity of A1/P901. It would also	
require an extensive change in the flight	
route system and ATC sectors in Hong	
Kong FIR. However, Hong Kong China	
would continue to study this proposal for	

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. Update from Viet Nam on 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 ATMSG/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



$\begin{array}{l} ATM/SG/13 - WP/41 \\ Appendix \, A \end{array}$

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

At the SCSTFRG/13 meeting in 2025, Hong Kong China suggested to archive SCS01 to focus on the discussion to other feasible routes.

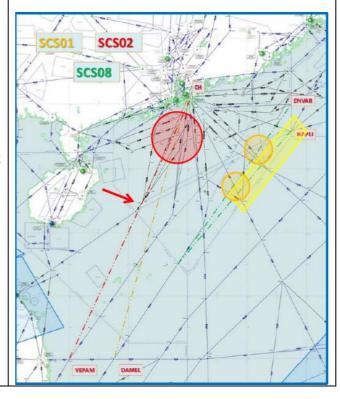
IATA advised that they will reassess the feasibility of the proposal and retain it in the ATS Route Catalogue list pending further review.

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	

L642 out of the Pearl River Delta area. During SEACG/19 in WP09 Hong Kong China advised they had studied the proposal for track shortening and advised the proposed change would reduce capacity of A1/P901. It would also require an extensive change in the flight route system and ATC sectors in Hong Kong FIR. However Hong Kong, China would continue to study this proposal for the implementation of RNP4/2. At SEACG/26: Hong Kong China commented they would need to review the integration of this route proposal with its planned airspace enhancement projects. Update from Viet Nam on 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 ATMSG/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.





$\begin{array}{l} ATM/SG/13 - WP/41 \\ Appendix \, A \end{array}$

the tin the
SO ole the

ATS Route Name	SCS 11
State Priority	B
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
Remarks: At SEACG/26: Malaysia	

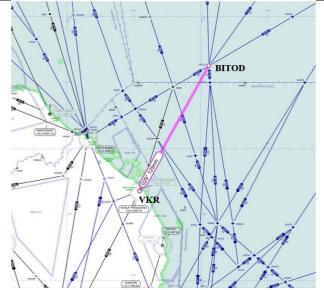
Remarks: At SEACG/26: Malaysia, Singapore and Viet Nam had agreed in principle the feasibility of the route proposal. The States concerned would meet to further discuss the proposal in due time, and Malaysia agreed to become the lead coordinator. Update from Viet Nam on 22/07/2019: Viet Nam proposed 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.

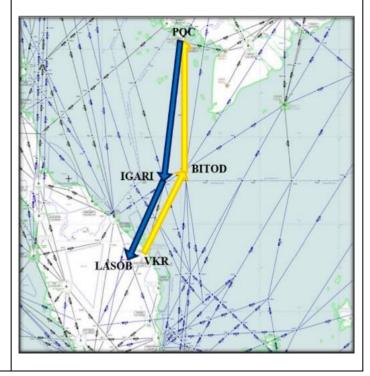
At ATMSG/7: Malaysia would lead the tripartite meeting, expected during the SCSTFRG/8 in September 2019. At ATMSG/8: This route proposal was under consideration by Viet Nam; and IATA provided updates on IATA priority, implementation benefits and operational information. 08/10/2021: Malaysia commented they would host the meeting between Malaysia, Singapore and Viet Nam in Q4 2021 or Q1 2022.

22/2/2022: the tripartite meeting btw 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 Sept 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.

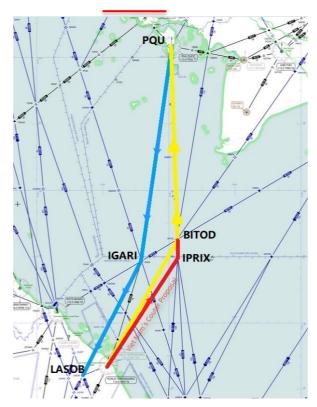
Before SAIOSEACG/2, Malaysia indicated that Malaysia, Singapore and Vietnam have broadly agreed to the proposal. Malaysia's proposal for the Coordination Procedure has been agreed by Singapore pending Viet Nam acknowledgement.

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 the IP05 that commented at the Tripartite Meeting (through 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.

the SAIOSEACG/3 meeting, At Malaysia suggested to apply RNP10 route specification on the proposed routes. Singapore had no objections to either RNP2 or RNP10 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 RNAV2 and RNP 4 as

Counter-proposal by Viet Nam:



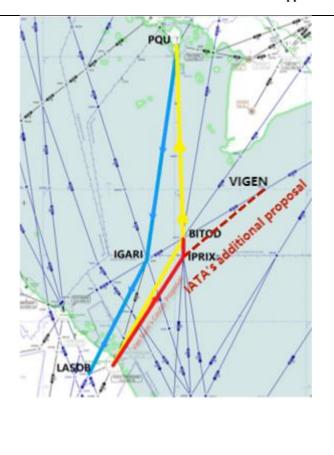
Suggested by IATA:

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 the SCSTFRG/12 meeting, Malaysia has engaged with local airlines operating in the area and confirmed that they are ready for RNAV2/RNP4. Further discussions with the relevant states are scheduled to take place in Q1 2025.

Before the SAIOSEACG/4 meeting, 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 the SAIOSEACG/4 meeting, IATA proposed deleting the additional proposal to further connect the IPRIX and VIGEN in order for the counter-proposal from Vietnam to be progressed without further delay.



ATM/SG/13 – WP/41 Appendix A

ATS Route Name	SCS 14
State Priority	В
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 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. At SEACG/26: Singapore commented 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: 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. 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 the SAIOSEACG/3 meeting Malaysia proposed withdrawing the route proposal. Singapore informed that they have no	ENREY OLKIT TERIX
objections to the withdrawal of SCS14. 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.	

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
	FIRs)
Route Description	ENREP 045223.88N 1041442.00E – KAMIN
P	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. At SEACG/26:	ENREP
Singapore commented implementation of this	16° 312nm
route would be possible with the	- Vinn
implementation of space-based ADS-B in	
Singapore FIR, planned by end of 2019; and	KAMIN
IATA would assign its priority after a	
comprehensive review of the Catalogue by	
its focus group. 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	The same of the sa
ATMSG/8: Indonesia commented future	
discussion on this route proposal yould	
require their involvements; an LATA	
assigned "LOW" priority and recommended	
for 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 the SAIOSEACG/3 meeting 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.	
Catalogue.	

ATS Route Name	SCS 16
State Priority	С
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: Update from Viet Nam on 22/07/2019: Due to crossing routes, this route proposal would be possible subject to the enhancement of surveillance and ATFM capabilities in the concerned area. At ATMSG/8: Viet Nam commented this route proposal was under consideration; and IATA assigned "MEDIUM" priority.	TSN
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.	010° 308mm
11/02/2022: Viet Nam commented they will continue to assess a necessity of this ATS/PBN route requirement adding ATS surveillance (SSR and ADS-B) capability has been enhanced by cooperation btw Viet Nam and Singapore, and new ATM aoutomation/AFTM capability will be enhanced with a long-term plan	ENREP

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) Remarks: At ATMSG/7: China proposed to	KUL – SGN – East Asia
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. 23/10/2020: No update (SCSTFRG/9 postponed 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).	IENKO +
At the SCSTFRG/13 meeting, Hong Kong China agrees with the remark made by China to focus on the implementation of parallel routes on A1. It is suggested to be archived SCS08 to focus on the discussion to other feasible routes.	PCA

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 Area 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). At ATM/SG/9: 1 update (discussion on planned implementation of parallel route to A1 was still ongoing at the SCSTFRG meeting). At the SAIOSEACG/4 meeting, 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.	NI LH ROT

ATC Davida Name	VIET NAM 02
ATS Route Name	VIET NAM 02
State Priority	D
IATA Priority	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 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
	2049.1N 10042.3E – Nankang (BH I) 2133.2N 10925.9E
Flight I aval Dand	
Flight Level Band Panefit (fuel environmental)	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, Vietnam02 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	44 flights per week
city pairs)	144 Hights per week
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	ВНУ
planing (Viet Nam). Retention discussed at	NOB
SEACG/22. At SEACG/26: China	
commented that this route proposal was very	CBI
unlikely to be implemented, and	- CO
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. 23/10/2020: China	
commented the proposal was under	
consideration. 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 meeting, Viet Nam said that they have been continuously discussing the implementation of this route with China.

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

ATS Route Name	SCS19
State Priority	A
IATA Priority	MEDIUM
Requested by (when)	Malaysia (20/Mar/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 meeting, Thailand said that they already submitted PfA to ICAO.	TRANS TR

ATM/SG/13 – **WP/41** Appendix A

ATS Route Name	SCS20
State Priority	В
IATA Priority	MEDIUM
Requested by (when)	Malaysia (20/Mar/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 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. Before the SAIOSEACG/4 meeting, Malaysia updated through email that a draft PfA for the proposal has been circulated to states involved for their review and consideration.	TAGENTAL DELINION TO THE PROPERTY OF THE PROPE
At SCSTFRG/13 meeting, Indonesia noted that further coordination with Malaysia would be conducted.	

ATS Route Name	SCS21
State Priority	B
IATA Priority	MEDIUM
Requested by (when)	Malaysia (20/Mar/2023)
States/Administrations	Malaysia, Singapore, Indonesia
Involved	
Route Description	This proposal essentially focuses on extending M758 to replace the
	conventional routes G582 and R461 (PUGER to MDN).
Flight Level Band	
Benefit (fuel,	The implementation of PBN Airspace and to simplify FPL in Kuala Lumpur
environmental)	FIR.
Operational	
Information	
(potential airlines, flight	
frequency)	
Remarks:	
At SAIOSEACG/2,	The state of the s
Indonesia expressed its favourable consideration	AND SECOND SECON
on this proposal, further	100 Miles 100 Mi
assessment was needed.	113.0 Mod 277
assessment was needed.	
At SCSTFRG/12	CONTROL OF THE PARTY OF THE PAR
meeting, Malaysia has	A SETTING CO. CO. SERVED ST. SETTING CO. CO. SERVED ST. SETTING CO. CO. SERVED ST. SETTING CO. CO. SERVED ST. SETTING CO. CO. SERVED ST. SETTING CO. CO. SETTING CO.
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.	
At SCSTFRG/13	
meeting, Indonesia	
noted that further	
coordination with	
Malaysia would be	
conducted.	

ATS Route Name	SCS22
State Priority	В
IATA Priority	MEDIUM
Requested by (when)	Malaysia (20/Mar/2023)
States/Administrations	Malaysia, Singapore, Indonesia
Involved	
Route Description	Upgrade a portion of conventional ATS routes G580 (VKG to VJN) to PBN
	Route
Flight Level Band	
Benefit (fuel,	The implementation of PBN Airspace.
environmental)	
Operational	
Information	
(potential airlines, flight	
frequency)	
Remarks:	
At SAIOSEACG/2,	TOWN TO THE PROPERTY OF THE PR
Indonesia expressed its	
favourable consideration	The state of the s
on this proposal, further	
assessment was needed.	
At SCSTFRG/12	
meeting, Malaysia has	
informed that the	
proposals are currently	
under review by	James W
Indonesia. Malaysia has	THE STATE OF THE S
proposed bilateral	
discussions on these	
proposals, and the	
outcomes of these	(1700)
discussions will be	The south
communicated to ICAO.	
	ROPE INCHES

ATS Route Name	SCS23	
State Priority	В	
IATA Priority	MEDIUM	
Requested by (when)	Malaysia (20/Mar/2023)	
States/Administrations	Malaysia, Singapore, Indonesia	
Involved		
Route Description	Upgrade from conventional ATS routes R223 to PBN Route	
Flight Level Band		
Benefit (fuel,	The implementation of PBN Airspace.	
environmental)		
Operational		
Information		
(potential airlines, flight		
frequency)		
Remarks: At		
SCSTFRG/12 meeting,		
Malaysia has informed		
that the proposals are		
currently under review	The state of the s	
by Indonesia. Malaysia		
has proposed bilateral		
discussions on these	TOTAL A SOLUTION OF THE PARTY O	
proposals, and the		
outcomes of these		
discussions will be	+ (***	
communicated to ICAO.	(u)Total	
	I sty change the	
	The state of the s	
	The same and the s	

ATC Danda Nama	MEVONC 01	
ATS Route Name State Priority	MEKONG 01	
IATA Priority	MEDIUM	
Requested by (when)	Thailand /Vietnam (21/Mar/2023)	
States/Administrations	Thailand, Lao PDR, Vietnam (Bangkok, Vientiane, Hanoi)	
Involved	Cambodia, Thailand, Lao PDR, Viet Nam (Phnom Penh FIR,	
Involved	Bangkok FIR, Vientiane FIR, Hanoi FIR)	
Route Description	VINH PHUC (VPH) (211634N 1053604E) – BISON (2026.20N	
Route Description	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 the ATS route	
(potential airlines, flight	R474 to fly shorter distance into Bangkok FIR (VTBS) and further	
frequency)	South into Phnom Penh FIR (VDSA & VDPP)	
Remarks:	UNICOUNT CONTROL CONTR	
This route was proposed as Conditional Route (CDR) to	VPH (C) for second (c)	
promote international CDR		
arrangement among the	The state of the s	
Mekong states.		
The route availability will be	300 200	
subject to civil-military	The state of the s	
coordination in pre-tactical	(Union Realing)	
and tactical level.	The second of th	
A CALOGEA GG/2 IV AN	and the same of th	
At SAIOSEACG/2, Viet Nam	ALO DESCRIPTION AND A STATE OF THE STATE OF	
supported the initiative by		
Thailand, and added that the new route would be further		
realigned with the existing		
primary routes within Hanoi	On On One of the Control of the Cont	
FIR. For the update, the	VT D64	
approval procedure of the	GND-UNL	
route proposal by its higher	MON-FRI AAAAA	
authority is in progress, and	2200-1700 174842.10N 1042043.51E	
which expected to be	MACHINE CONTROL OF THE CONTROL OF TH	
completed soon. It is		
suggested that Thailand		
organize a tripartite meeting involving all States concerned	(SCHOOLOGE)	
to further discuss the detail.		
to rarmer disease the detail.	ROT	
At SCSTFRG/12 meeting,		
Further information will be	// / / / / / / / / / / / / / / / / / /	
provided after Mekong-	Figure 1 – VPH – ROT Route	
	riguie I – VIII – NOI Noute	

ATMCG meeting (27-28)November 2024).

At the SAIOSEACG/4 meeting, the relevant States agreed to the design principle of the ATS route to be implemented as an RNAV2 CDR with the MFA of FL270 and would continue with implementation planning in due course. Vietnam and Thailand informed the meeting of the following points through WP17 derived 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.

And 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 RNAV2 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

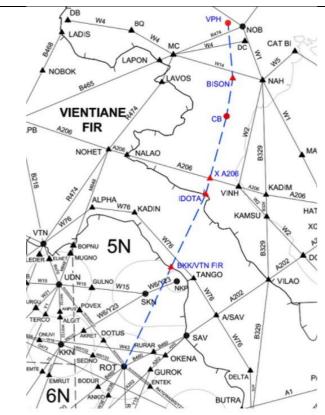


Figure 2 - Proposed VPH - ROT Route

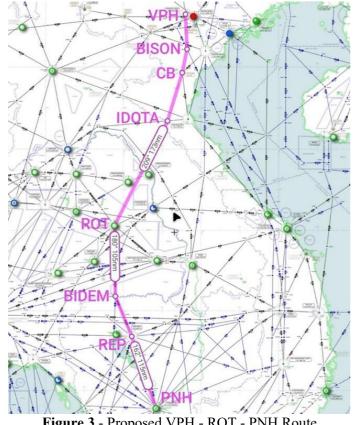


Figure 3 - Proposed VPH - ROT - PNH Route

ATM/SG/13 – **WP/41** Appendix A

|--|--|

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 IATA)
(potential airlines, flight frequency)	(1)
Remarks: At the SAIOSEACG/4	13 1 8 5
meetings, this proposal is newly	Start of Barbara Co
incorporated. The proposed route were	SAGAG
design to enhance airspace capacity between NAN (Bangkok FIR)	MAGAGA SANGARA
- SAGAG (Vientiane FIR) into	(LUMCANAMINA)
Kunming FIR in southwestern China	
which the route design principle has	MORE A
been agreed through the tri-lateral	The state of the s
discussion between China, Lao PDR	
and Thailand on 24 – 25 June 2024.	5
At the SCSTFRG/13 meetings, China	LLANG PIGE I
commented to ensure seamless	A MANUAL
coordination and timely	and Land
implementation for ATS routes from	
LPB to ELASU, A technical	
coordination meeting will be convened	
between China, Lao PDR, Thailand to	NON 104 104 104 104 104 104 104 104 104 104
finalize operational arrangements,	INAN
validate route design, and confirm	
implementation timelines on Q4 2026.	2940 \$ 8
	PHONE STATE OF THE PROPERTY OF
	The second of th

ATS Route Name	MEKONG 03 (BASIT-UPNEP)
State Priority	B
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
r	Penh FIR Boundary) (934.95N 10221.12E)
Flight Level Band	7
Benefit (fuel, environmental)	
Operational Information	VN
(potential airlines, flight frequency)	
Remarks:	
At the SAIOSEACG/4 meeting, this	
proposal is newly incorporated. The	
development of a direct ATS route	
serving traffic between VVTS (Viet	
Nam), VDSV (Cambodia) and	
VTSM/VTSP (Thailand) was discussed	
during the MK-ATM/CG/10 (Nov	
2024), the design principle of the route	
was agreed among relevant States. With	
a 2-phase implementation plan, this	
agreement was captured as Conclusion	
MK-ATM/CG/10-3 from the meeting.	
	Poleng
Phase 1 of the initiative would be the	
implementation of BASIT – UPNEP,	UPNEP
which were agreed upon by Cambodia	BASIT
and Thailand. Both States were ready to	275 110m
begin the implementation.	PNIN A GODA
Phase 2 of the initiative would be the	
implementation of TUNPO – BASIT	MVA TONK A NON
by Cambodia and Viet Nam.	123 PAGUU RPPUU
This route segment would be added into	
ATS Route Catalogue later as Viet Nam	
need to conduct internal assessment	
before developing an implementation	
plan.	
At the SCSTFRG/13 meeting,	
Cambodia reported ongoing	
cooperation with Thailand under Phase	
1, and stated that this topic would be	
further addressed at the upcoming	
Makana ATM Meeting later this year	

Mekong ATM Meeting later this year.

Chapter 3: East Asia

(referred to: States or EATMCG as appropriate 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
r	(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 –	
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 progress on this	
proposal. At ATMSG/8: IATA preferred this	CCO
route proposal to be retained in the	
Catalogue, and proposed the route segment	
between CGO – ZHO – HFE to be made	
available for eastbound too. In response to	
IATA's proposal, China commented the	
following uni-directional routing systems	DUBAG AND
had been implemented for flight planning: (a) eastbound: HFE – FYG – ZHOU – CGO.	THE FLOON ARS ARS ARS ARS ARS ARS ARS AR
(a) eastbound: HFE - FYG - ZHOU - CGO. (b) westbound: CGO - W129/KAMDA -	101 92X 101 50.6 101 101 101 101 101 101 101 101 101 10
W128/FYG. At SAIOACG/10 and	cclusive 25 2H(R)202 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
SEACG/27: China proposed for deletion.	CETA COMMENT OF BELLEY VETP
3/3/2022: China commented how the current	NCZHOU SJ 1956 ZHO WING ZHORZO
uni-directiona routing system works in actual	1 AVNOD 1 1/5 W MANO
operation (see the Map provided by China)	W129/KAMOA
adding that it could reduce heavy traffic and	SYANG AROL CIA CHARGE BAG CHARGE BAG CIA CHARGE BAG CHARGE BAG CIA CHARGE BAG CIA CHARGE BAG CIA CHARGE BAG CIA CHARCE BAG CHARCE BAG CIA CHARCE BAG C
conflict over ZHO.	7800m or below TAPE TO THE TOTAL TO THE TOTA
Tomas over Zaro.	OR REVKU 182 222
	[Map provided by China]

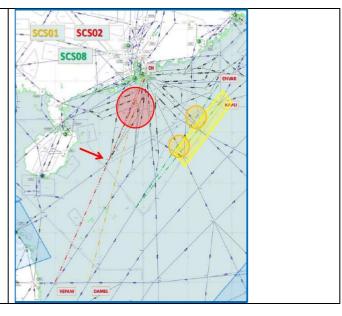
ATS Route Name	CHA 02
State Priority	D
IATA Priority	HIGH
Requested by (when)	IATA (01/09/2018)
States/Administrations Involved	China (Urumqi, Lanzhou FIRs)
Route Description	Qiuci (XKC) 4140.6N 08250.6E – Jiayuguan (CHW)
	3951.3N 09821.0E
Flight Level Band	8,400 – 15,000 meters
Benefit (fuel, environmental)	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. 23/10/2020: China proposed for deletion. At ATMSG/8: IATA preferred this route proposal to be retained in the Catalogue.	116.1 Del 115.5 No. 7 116.1 Del 115.5 No. 7 116.1 Del 115.5 No. 7 116.1 Del 115.5 D

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
0 " 11.6 "	annually
Operational Information	85 flights per week
(potential airlines, flight frequency, potential	
city pairs)	DONOR DU ANDO
Remarks: New route proposal replacing the previous from Weixian to Novokuznetsk. At	
ATMSG/7: China and Mongolia commented	
the proposed route was not possible for	NOSPI
implemention; and IATA would provide	Sign of the second seco
feedback after a comprehensive review of the	
Catalogue by its focus group, expected in	
March 2020. 23/10/2020: China proposed	
for deletion. At ATMSG/8: IATA preferred	A PART X MARKET
this route proposal to be retained in the	
Catalogue.	
	A STATE OF THE STA
	BAV

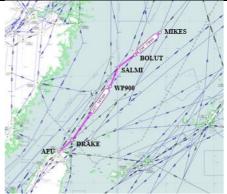
ATS Route Name	IATA 02
State Priority	D
IATA Priority	HIGH
Requested by (when)	IATA (01/09/2018)
States/Administrations Involved	China (Kunming, Guangzhou FIRs)
Route Description	OMBON 3321.4N 10416.3E – Sanjiang (SJG)
	2546.6N 10936.6E
Flight Level Band	8,400 – 15,000 meters
Benefit (fuel, environmental)	14 minutes, 6,657 tones fuel, 20,636 tonnes CO ₂
	annually
Operational Information	56 flights perwork
(potential airlines, flight frequency,	Europe - Rearl 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 ATMSG/8: IATA preferred this route	
proposal to be retained in the Catalogue.	
1. 1. 3.337777 3/12	The state of the s
At the SCSTFRG/13 meeting, IATA and	1-1/A/\
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	7- 1/7/2000
aims to connect Europe with Southern	SJG
China, due to safety concerns related to traffic conflicts, IATA proposed to support	
and facilitate the flight operations via Y1	O CHANGE
and L888 as an alternate.	
and Lood as an antimate.	

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
States/Italianistrations involved	FIRs)
Route Description	DULOP 1814.2N 11432.6E – ELATO 2220.0N
Route Description	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	500
– Southeast Asia. Potentially problematic as	APU
will impact South China Sea's traffic	3 4
arrangements (IATA to review). During	
SEACG/19 in WP09, Hong Kong China	ELATO Taiwan
advised they had studied the proposal for	ENVAR A
track shortening and advised that allowing	HCN
flights to proceed from M771 DUMOL to	
ELATO/ENVAR/KAPLI will likely create	KAPLI
a bottle neck at these points and result in	DULOP
flights not getting optimum levels or	Philippines
increase ground delay to departures from	1 7
Hong Kong and Macao to East Asia.	7
However, Hong Kong China would	- The
continue to study this proposal. Most	0.50
preferred: DULOP – ENVAR. 30/10/2020:	
Hong Kong China commented these two	100 NM
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.	
1 commended.	
At ATMSG/8: IATA preferred this route	
proposal to be retained in the Catalogue.	
proposal to obtained in the Camiogue.	
At the SCSTFRG/13 meeting, 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
Toute Description	(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. Update from Japan on 29/06/2019: 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. 16/09/2021: Based on information provided by the IFATCA, the proposed route TPE 01 partially overlaps ATS route Q11 and several 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. Southbound traffic: MIKES – BOLUT – B576 – SALMI – Q11 – DRAKE – APU.	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 or AIRARD TF as appropriate for review)

ATS Route Name	AFG 01
State Priority	B
IATA Priority	MEDIUM
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
Route Description	350606.12N 0702512E
Flight Level Band	
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 shorten the flight distance. Original proposal: IMTIL – SURVI. At ATMSG/7: Pakistan counter-proposed for this route via SURVI – Peshawar (PS). Pakistan informed the meeting the proposed route between SURVI and PS had been submitted to the relevant authorities of Pakistan informed this route proposal was still under consideration by the relevant authorities. At ATMSG/8: IATA assigned "MEDIUM" priority; implementation benefits; and operational information. IATA also proposed to review the till 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 (bidirectional), 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.	SURVI

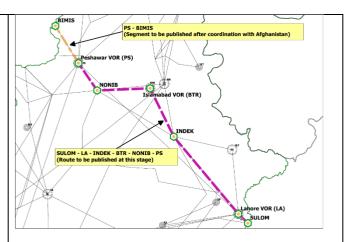


18/02/2022: Upon approval on a new RNAV bi-directional int. ATS route in Lahore FIR by the Federal Government of Pakistan, Pakistan requested a new RNAV Route designator to APAC RO awaiting the response from Afghanistan for further connectivity in Kabul FIR (the last segment from Peshawar VOR to PAK/AFGHAN new TCP BIMIS (Lahore FIR)), and saying 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.

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 flights. The portion between PS-BIMIS is



SULOM – Lahore VOR – INDEK – Islamabad VOR (BTR) – NONIB – Peshawar VOR (PS) – BIMIS 343433N, 0710533E (<u>Pak/Afghan new proposed TCP boundary waypoint</u>), Vertical Limit FL300 – FL410



approved but further connectivity to/from PS-BIMIS (TOC with Afghanistan) is subject to the response from Afghanistan.	
At the BOBTFGR/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 ATMSG/8: IATA assigned "LOW" priority and recommended for deletion. Note: continuation of this proposal is 29.002 "TAPIS-PINAX-SORAM-TENRO" in RINGE Middle Asia ATS Route Catalogue.	PINAX PINAX TAPIS

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/Administrations involved	Kabul, Lahore FIRs)
Route Description	Bandar Abbas (BND) 2711.8N 05622.0E – DAVEP
Route Description	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 07420.1E – G325 – PURPA 3656.5N
	07524.4E
Flight Level Band	
Benefit (fuel, environmental)	40 NM / 3 minutes, 600 kg fuel per flight, 1,342
,	tonnes fuel, 4,262 tonnes CO ₂ annually
Operational Information	EK, EY, QR
(potential airlines, flight frequency, potential	About 43 flights per week
city pairs)	- 5 1
Remarks: High Priority MID 02 (a)	Flight Plan D S D D D D D D D D D D D D D D D D D
preferred over MID 02 (b) if only one route	Aircraft TAIL # 3 Spd M082 All 000 Fuel 0
is chosen. 17/08/2020: The proposed entry	Departure Destination
into Pakistan airspace allows very minimal	ETD Zuw HHMM MMDD tocal HHMM MMDD to
response time (less than two minutes) for	Dist: 1147.5 ETE: 10:04 Burn: Routios Ø BIND > DAVEP > NABOX > PEKES > DANOY > ULOVI >
traffic de-confliction at DOBAT and SITAX	PIRAN > OGOGO > LOVIT > PAROD > HANGU > PS G325 GT G325 PURPA
and other crosser routes.	Q Briefing & Total (III Nav.)
	AND WALL AND
Toronto Toront	
ann	
Pakistan proposed for deletion.	
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	
supported archiving this proposal for future	
possibility and IATA had no objection.	

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:
Flight Level Band	INDEK T400 BTR (Islamabad) DCT MOTMO As suitable
Benefit (fuel, environmental)	Estimated Potential Savings Per Flight:
Benefit (rue), environmentar)	50 NM, Equivalent to 500Kg Fuel, 1.6 Ton CO2
Operational Information	South Asia – Europe Traffic flow (bi-directional)
(potential airlines, flight frequency,	= /
potential city pairs)	-c-/
This proposed air route will	
primarily cater to long-haul wide-	MOTMO
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	7
the Hindukush high terrain, it helps	30 -
minimise critical passenger oxygen	61-11
requirements in the event of rapid	
depressurization.	13 1 10 10 10 10 10 10 10 10 10 10 10 10 1
	TANK A SAMA
	BTR
MOTMO	DIN :
The Late of the Control of the Contr	TO THE PARTY OF TH
Les You	
PS	The same of the sa
Islamabad	
A Section of the sect	The state of the s
	(Italiana man)
	(Marie)

At the SAIOSEACG/3 meeting, IATA has 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 and 49 nautical miles 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.

During the ATM SG/12 meeting, 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.

During the ATM SG/12 meeting, IATA also updated PAK 01 though email: Given that Afghanistan's

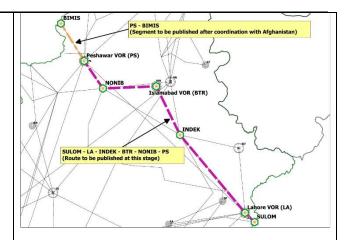
airspace is likely to remain in contingency mode for some more time, IATA strongly urges the Pakistan CAA to consider authorizing PAK01 as an interim measure. It is requested that if required the route may be modified to account for the requirements of reserved/special use airspace, as well as to utilize the existing 'J' routes, which are already established for domestic operations.	
At the BOBTFRG/6 meeting, Given the current situation in Afghanistan, IATA and Pakistan agreed that they would discuss it further to move forward.	

ATS Route Name	AFG 03
State Priority	
IATA Priority	HIGH / MEDIUM
Requested by (when)	IATA (Either as the Afghanistan Contingency route plan /or as the airspace reopens for flight operations)
States/Administrations Involved	Pakistan, Afghanistan, Tajikistan (Lahore, Kabul, Dushanbe FIRs)
Route Description	Peshawar (PS) - BIMIS – DCT –37 08 41N 069 20 43E (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:
Denoise (tao), environmental)	Compared to SITAX: 71NM equivalent to 700Kg fuel, 2.2Ton CO2 Compared to LAJAK: 41NM equivalent to 400Kg fuel, 1.3Ton Co2
Operational Information	South Asia – Europe Traffic flow (bi-directional)
(potential airlines, flight frequency, potential city pairs) Primarily intended for long-haul wide-body ULR (Ultra Long-Range) flights between South Asia and Europe, this new route not only promises environmental advantages but also aligns with the BOBCAT 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.	FIR Crossing point OAKX-UTDD
- Pakistan agreed to publish PS – BIMIS after coordination with Afghanistan (ref AFG 01 proposal in the Route catalogue)	SITAX LÄÜDAK
At the SAIOSEACG/3 meeting, IATA has suggested new air routes AFG 03, aiming to open a new	

route through Kabul's airspace, linking Peshawar with waypoints in Dushanbe, which could save up to 71 nautical miles. This route would help reopen Afghanistan's airspace, reduce environmental impact, and ease congestion at critical crossing points. Targeted primarily at longhaul, wide-body flights, these proposals are part of broader efforts to enhance air traffic management for improved efficiency and safety.

Pakistan affirmed its readiness to enhance airspace efficiency and mentioned the approval of the AFG 01 route from Peshawar to BIMIS. However, due to the contingency situation in Afghanistan's airspace, further exploration of this route awaits Afghanistan's readiness. IATA urged ICAO to consider updating this route as a contingency option or at a suitable time when Afghanistan's airspace stabilizes. ICAO RSO agreed to seek assistance from the ICAO APAC office to explore the feasibility of the project.

At ATM SG/12 meeting, 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.



During the ATM SG/12 meeting, 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 the BOBTFRG/6 meeting, 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.

Chapter 5: Trans-Regional (East Asia)

(referred to: AIRARD/TF, RDGE or EATMCG as appropriate for review)

	E0008 / RDGE 15.003 / APAC RUS 5
TS Route Name Fl tate Priority C	
v	IEDIUM
· ·	ussia, IATA (01/09/2018)
1 ()	ussia, Japan (Khabarovsk, Fukuoka FIRs)
	nplementation of two new bi-directional ATS
_	outes:
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
P. L. T. I.D. I	Fukuoka) – New EKVIK Waypoint
light Level Band	. C. 1 1
	o fuel gain but could help to reduce ground delays
	or HND/KIXNRT operations to Europe.
Operational Information Dottential airlines, flight frequency,	F, BA, KL, LH
otential city pairs)	
emarks: To improve north-south	ELLENY HA
affic flows between Khabarovsk	
IR and Fukuoka FIR, Original	SIBIR
IBIR – LURED – EKVIK	ARLAS
roposal will be changed due to	ARLAS
ew position of EKVIK further east	
s a result of the planned airspace	
ructure change in Japan, when	
oth new ATS routes will be	A+ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
nplemented, the existing B451 RLAS – LAKTA – LURED –	
GROD will be withdrawn. Based	
n the results from the coordination	EKVIK
neeting between the Russian	
ederation and Japan in February	
017, the implementation could not	
e progressed as Japan indicated	
nat no further airspace changes for	
ne Fukuoka FIR are acceptable	
efore the 2020 timeframe	
RDGE/27). Russian Federation:	
ew waypoint needed 404751N	
361021E (FIR Boundary),	
oordination with Japan (Fukuoka IR) required. Alternative bi-	
irectional route to EN15.	
3/10/2020: Japan commented no	
pdate. At ATMSG/8: IATA	
ssigned "MEDIUM" priority and	
ecommended for this route to be	
etained in the Catalogue.	
5/10/2021: Japan commented no	
pdate.	

ATS Route Name FE0021 / 1 State Priority C	RDGE 13.028 / APAC RUS 4
State Priority C	ADGE 13.020 / AFAC RUS 4
<u> </u>	
IATA Priority HIGH	T. (01/00/00/00/0)
	TA (01/09/2018)
	oan (Khabarovsk, Fukuoka FIRs)
	ation of new bi-directional ATS route:
	Niigata (GTC) 375729.90N
1390653.6	<u>0E</u>
Flight Level Band	
· · · · · · · · · · · · · · · · · · ·	minutes, 440 kg fuel per flight, 2,400
	, 7,550 tonnes CO ₂ annually
Operational Information AF, AY, JJ	
	flights per week
potential 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>	AVGOK
difference in coordinates of the	ANA B STATE
AVGOK waypoint was identified in	34
the aeronautical information	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
publications of Russia and Japan.	
The incorrect coordinates were	
confirmed by Japan and a decision	
was made to report this issue to the	
appropriate Regional ICAO Offices.	
The Russian Federation proposes	GTC V
the following coordinates (4336N	MARKET MY
and 13815E) for the AVGOK	
waypoint. Based on the results from the coordination meeting between	A WAR TO A STATE OF WHAT I
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: Japan commented no	
update.	

ATCOD A N	EE0040 / DDCE 20 010
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 re-organisation 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	18,000 – 51,000 ft
Benefit (fuel, environmental)	
Operational Information (potential airlines, flight frequency, potential city pairs) Remarks: Planned implementation	Muraveyka BG
date as part of project in 2015. Khabarovsk/Vladivostok airspace re-organisation project, (in map No. 7).	WASAN SONDO WASAN SONDO WASAN SONDO RECEDENT AGITA RECEDEN

ATS Route Name	FE0051 / RDGE 20.012
State Priority	С
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 re-organisation 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	С
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 AS HAMUN WASAN AS HAMUN WASAN AS HAMUN NOTE OF THE STREET OF TH

ATC Danda Nama	EE0052 / DDCE 20 014
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 AGINA SONDO WASAN AGINA RASON Proposals for discussion: - to withdraw; - to establish

ATS Route Name	FE0054 / RDGE 20.015
State Priority	С
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	С
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	Muraveyka BG /
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 SONDO WASAN SONDO RECENSE OF THE STATE OF THE STA

ATS Route Name	FE0056 / RDGE 20.017
State Priority	С
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,	
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 WASAN SONDO WASAN HAMUN KICHA RASON RASON

Chapter 6: Trans-Regional (Mid Asia)

[referred to: The Special Coordination Meeting of the Route Development Group – Eastern Part of the ICAO EUR Region (RDGE-SCM/2024), the SAIOSEACG/4 - WP14 as appropriate for review]

ATS Route Name	RDGE-TRANS-REGIONAL MID-ASIA 01
State Priority	A
IATA Priority	HIGH/MEDIUM/LOW
Requested by (when)	Kazakhstan (RDGE-SCM/2024)
States/Administrations	KAZAKHSTAN & CHINA (Almaty & Urumqi FIRs)
Involved	
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	1. Ease congestion in Astana FIR Sector A1C,
frequency)	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 – SARIN.
Remarks: Supported by major	
airlines such as All Nippon	
Airways (ANA), KLM,	
EgyptAir, and Finnair.	
	Action
	NIE
The state of the s	AMASO AGAKO MADEV AGAKA SALIMO
	ARKAM 46161111 0023512
DIVNO	
TITIL MASAV	
	TOMGO
ARNUS	USUGA Ammy
BALLIT	UBAGU OFFE GENOI
	Existing
	XI XX X III

ATS Route Name	RDGE-TRANS-REGIONAL MID-ASIA 02
State Priority	A
IATA Priority	HIGH/MEDIUM/LOW
Requested by (when)	Kazakhstan (RDGE-SCM/2024)
States/Administrations	KAZAKHSTAN & CHINA (Almaty & Urumqi FIRs)
Involved	
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	1. Ease controller workload in Almaty FIR Sector A4A.
frequency)	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:	
AGAKO	
TOGOL	
TOGOR	MADEY RUDIZ
	SARA SARA
	GENGA
X \	461611N 0823512E
	1// Constitution
X X	New New
	Existing
30460	Existing
U	SUGA RULIQ

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	KAZAKHSTAN & CHINA (Almaty & Urumqi FIRs)
Involved	RAZAKHSTAN & CHINA (Alliaty & Ofuliqi Fiks)
Route Description	Bidirectional
Route Description	BAMAN-WUR
Flight Level Band	DAMAN-WOR
Benefit (fuel, environmental)	Objectives:
Benefit (ruei, environmentar)	1. total flight distance from SUBUT to GOVSA is
	reduced by 1 NM.
	2. reduce the load on the SARIN waypoint, Almaty FIR Sector A4A, and the RULAD waypoint in Sector
	A3A.
	3. will attract air traffic from the BORIS – SARIN
	corridor, which in turn will ease the workload in the
	Shymkent FIR, Sector A1I.
Operational Information	Benefits:
(potential airlines, flight	1. total length of 2281.5 NM (4225 km), serves as an
frequency)	alternative to several existing routes, such as N161
1 37	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:	7
	New New
	▶ Existing
- / - / - / - / - / - / - / - / - / - /	no
Man	, no.
	Total Total
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	CONTRACTOR OF THE PARTY OF THE
The state of the s	
- So-	**
om of the same	Man
The state of the s	years place
MANN DIS	ST DEFENDANCE CONTRACTOR
MAN	
7	/ /

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:	
	KAMUO
OSH	
	кна
	New Exist

Chapter 7: Pacific

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

ATTO D. A. N.	WIDG 04
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,
	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 ,
	5,000 tonnes fuel, 15,700 tonnes CO ₂ annually
Operational Information	60 flights per week
(potential airlines, flight frequency,	Taibei and beyond – Australia, New Zealand, and
potential city pairs)	Papua New Guinea
Remarks: BISIG replaces the	
waypoint that 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	TINHO
Australasia. At ATM/SG/6: PNG	BISIG
positive, Indonesia positive, Japan	
was reviewing, Philippines and Taibei yet to be discussed. At	ENDAX
ATMSG/7: Under consideration by	
Philippines. 17/01/2020: Philippines	ROR
supported the implementation of	NOR NOR
this route. 23/10/2020: Japan	
commented this route proposal was	VNO
under consideration. 16/09/2021:	The second secon
Based on information provided by	
the IFATCA, implementation of this	PY
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:	
Japan commented this route	
proposal was still under	
consideration.	
25/2/2022: Japan commented no	
discussion, but if necessary it would	
be put on the agenda at future	
meeting.	
23/9/2022: IFATCA, this proposal	
requires further coordination with	
the military.	
D : 11 ATM (CC/12	
During the ATMSG/12 meeting,	
IATA updated WPC 01 through	
email: WPC 01 retain pending	

outcome of consideration access to military airspace.	