

International Civil Aviation Organization

The Third Meeting of the South Asia, Indian Ocean and Southeast Asia ATM Coordination Group (SAIOSEACG/3)

Bangkok, Thailand, 16 – 19 April 2024

Agenda Item 5: ATS Route Developments

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 meetings and email correspondences.

1. INTRODUCTION

- 1.1 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. It's been an ongoing project ever since.
- 1.2 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, the ICAO Asia and Pacific (APAC) Regional Sub-Office has updated the *Asia/Pacific Region ATS Route Catalogue* based on the information provided by States/Administrations and airspace users through email correspondences and meetings.
- 1.3 The *Asia/Pacific Region ATS Route Catalogue* records the current status of route proposals, which may not have reached the stage of the formal proposal through the Regional Air Navigation Plan Proposal for Amendment (PfA) process.
- 1.4 The most recent Version 23.1 of the Catalogue is available at the ICAO Asia/Pacific website (https://www.icao.int/APAC/Pages/eDocs.aspx) under the 'ATM' category.

2. DISCUSSION

- 2.1 In order to streamline the review process for updating the *ATS Route Catalogue* and enhance communication between Air Navigation Service Providers (ANSPs) and airspace users, the new edition of the *Asia/Pacific Region ATS Route Catalogue* will prioritize proposals with the highest potential for short to medium-term benefits. Those that are not feasible within this timeframe will be archived for potential future evaluation. ANSPs have been encouraged to explore all variations of the proposals to see if partial benefits are attainable, when the original proposal cannot be implemented or reached an agreement among the member States.
- 2.2 The ICAO APAC Regional Sub-Office has reached out via email to all relevant States and Administrations to gather the latest information on these route proposals. During the latest meeting of BOBTFRG/5, participants engaged in a discussion on the review of selected ATS route proposals from

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the *ATS Route Catalogue*. Feedback from the States and IATA was on BOB01, BOB02, and AFG01. The feedbacks received and updates have been included in the latest draft, Version 23.1, of the *Asia/Pacific Region ATS Route Catalogue*, provided in Attachment A.

3. ACTION BY THE MEETING

- 3.1 The meeting is invited to:
 - a) note the information contained in this paper;

c) discuss any relevant matters as appropriate.

- b) review and update any information in draft Version 23.1 of the ATS Route Catalogue at Attachment A; and

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Attachment A

ASIA/PACIFIC REGION ATS ROUTE CATALOGUE

INTERNATIONAL CIVIL AVIATION ORGANIZATION ASIA/PACIFIC REGIONAL OFFICE

VERSION 23.1

December 2023

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Foreword

- 1.1 The *Air Navigation Plan Asia and Pacific Regions* (Doc 9673) has been superseded, in electronic form by the electronic Air Navigation Plan (eANP), which contains a table of regional ATS routes in Volume II (*Table ATM II- APAC- 1 Asia and Pacific Regions ATS Routes*).
- 1.2 The Fourteenth Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/14, August 2004) under Conclusion 14/5 established the ATS Route Network Review Task Force (ARNR/TF) to review the Asia and Pacific ATS route network to determine present and future route requirements. To facilitate the amendment process and keep track of route implementation and future requirements, and with the objective of providing more up to date information on route developments, ARNR/TF prepared the draft Asia/Pacific Region ATS Route Catalogue.
- 1.3 APANPIRG/16 (August 2005, Bangkok), recognizing the value of a consolidated reference document for the regional ATS routes and future route requirements of States and airspace users, accepted the Asia/Pacific Region ATS Route Catalogue under Decision 16/9. The ATS Route Catalogue is intended to be a living document, supplementing the eANP and maintained by the ICAO Asia and Pacific (APAC) Regional Sub-Office on behalf of the ICAO Asia and Pacific Office. Communication related to the ATS Route Catalogue should be made via email to apac-rso@icao.int.
- 1.4 A Contracting State or qualifying International Organization identifying a need for a new route requirement to be included in the eANP or to change an existing route contained in the eANP, may submit an amendment proposal to the ICAO APAC Regional Office in accordance with established procedures summarized below and the template provided on the ICAO APAC website.
- 1.5 Appropriately presented and documented proposals to amend the eANP are submitted to the ICAO Secretary General through the Regional Office and circulated to States and International Organizations for comment. If, in reply to the ICAO Regional Office's inquiry, no objection is raised to the proposal by a specified date, it will be deemed that a regional agreement (involving the relevant PIRG) on the subject has been reached. The Regional Office will inform States and International Organizations concerned of the approval and the eANP will be amended accordingly.
- 1.6 If, in reply to the ICAO Regional Office's inquiry, any objection is raised, and if objection remains after further consultation, the matter will be documented for discussion by APANPIRG and, ultimately for formal consideration by the Air Navigation Commission, if it remains unresolved. If the Commission concludes that the amendment is acceptable in its original or other form, it will present appropriate recommendations to the Council.
- 1.7 The APAC Regional Sub-Office, which is responsible for maintaining the ATS Route Catalogue, will update the ATS Route Catalogue from time to time as amendment proposals are presented, progressed and agreed or not agreed. The revision number and date shown on the cover page of the Catalogue. The Asia/Pacific Region ATS Route Catalogue is posted on the ICAO APAC website at (https://www.icao.int/APAC/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 2011	SAIOACG/1	Reviewed and updated the Catalogue.
11	22 June 2012	ATM/AIS/SAR/SG/22 APANPIRG/23	Reviewed, reformatted, and updated the Catalogue, approved by APANPIRG/23.
12	26 June 2013	SAIOACG/SEACG, ATM/SG	Reviewed, reformatted, and updated the Catalogue, approved by APANPIRG/24.
13	11 September 2014	SAIOACG/SEACG, ATM/SG APANPIRG/25	Reviewed subsequent to Easter Island being transferred out of the Region; added trans-regional proposals
14	September 2015	SAIOACG/SEACG, ATM/SG APANPIRG/26	Removal of Chapter A (BANP routes).
15	September 2016	SAIOACG/SEACG, ATM/SG APANPIRG/27	Reviewed and updated the Catalogue.
16	August 2017	SAIOACG/SEACG, ATM/SG	Reviewed and updated the Catalogue.
17	September 2018	SAIOACG/SEACG, ATM/SG	Reviewed and updated the Catalogue, incorporated IATA inputs, added State and IATA priority label.
18	April 2019	SAIOACG/9, SEACG/26	Reviewed and updated the Catalogue.

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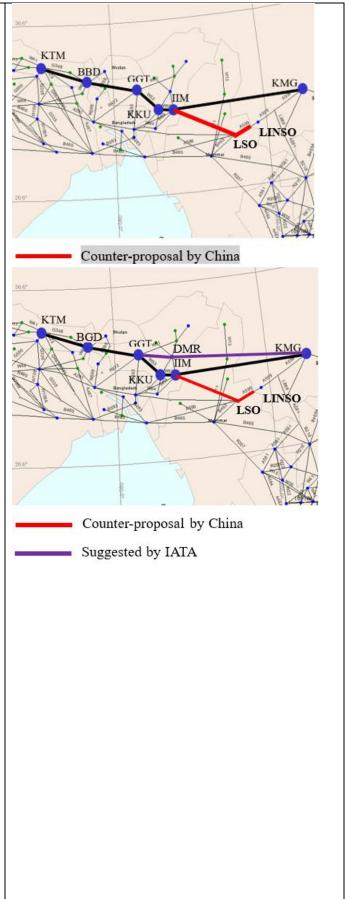
19	September 2019	ATMSG/7,	Reviewed and updated the Catalogue.
		AIRARD TF/4	
20	December 2020	ATMSG/8	Reviewed and updated the Catalogue.
21	November 2021 March 2022,	SAIOACG/10, SEACG/27, ATM/SG/9, SAIOSEACG/1,	Reviewed and updated the Catalogue.
	October 2022 December	ATM/SG/10 BOBTFRG/4	
22	March 2023 July 2023	SAIOSEACG/2 SCSTFRG/11	Reviewed and updated the Catalogue.
23	October 2023 December 2023	ATMSG/11 BOBTFRG/5	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	Nepal, India, Myanmar, China (Kathmandu, Kolkata,
Involved	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 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	
Benefit (fuel, environmental)	110 NM / 15 minutes, 520 kg fuel, 1640 kg CO ₂ per flight Potential to save 19 to 25 minutes per flight and assist in decongesting A599/Lashio.
Operational Information	
(potential airlines, flight	
frequency, potential city pairs)	
Remarks: IATA North Asia	
Office approached China who	30.0*
have indicated this route will be	KTM
considered as part of the overall	G348 RRD Bhutan
China route review – no timeline	GGT
was given. China advised that	IIM
they would seriously look at the	Bangladers MG
proposal and would coordinate	The state of the s
with Nepal (ref. para 8.4 of the	0465 B465 B465 B465
SEA-RR/TF/4 report). At	
SAIOACG/9: with the	
improvement of surveillance	2000
capability, Myanmar would review this proposal. At	
ATMSG/7: Under consideration	
by China; and Myanmar	
commented this route proposal	
would be dependent on the	
enhancement of surveillance and	
communication coverage in the	
area. 26/09/2020: Nepal updated	
this route proposal was under	
discussion with Myanmar, and	
they were optimistic that	
communication and surveillance	
capabilities would be available in	
Yangon FIR in the near future to	
support the implementation of	

this route. 20/11/2020: China commented that it was not possible to establish a new entry/exit point, and counterproposed to re-align IIM - LSO -LINSO (existing entry/exit point between Yangon and Kunming FIRs). At ATM/SG/8: In response to China's counterproposal, Myanmar provided their disagreement; and India commented the existing established routes in Kolkata FIR (i.e. W137, W53 and W55) was for domestic operations only, and India would need to review the possibility of opening these routes for international operations. India also suggested that in light of this, and the delay of more than nine years and the positions of Myanmar and China, Nepal may wish to consider a new proposal. At ATM/SG/9: IATA commented that based on detailed re-assessment conducted by airlines, it confirmed a 'HIGH' priority to HIMALAYA 02. In addition, IATA suggested an alternate proposal which had potential to save up to 19 to 25 minutes, and would also help to decongest ATS route A599/Lashio (LSO) and save additional 88 NM compared with IIM – LSO – LINSO route. IATA also requested India to consider keeping ATS route J7 (CDR2/3 route between GGT -DMR) available based on traffic demand timings. Nepal supported the alternate proposal as suggested by IATA, and would coordinate and hold a consultation meeting with the various stakeholders. China commented that it was not possible to establish a new entry/exit point. At BOBTFRG/3: Myanmar supported the proposal by IATA; India expressed its concern in getting a favourable response



from its military authorities for the route between Guwahati (GGT) – Dimapur (DMR) – Kunming (KMG). According to India, implementing the route from Imphal (IIM) to Kunming (KMG) was more feasible. Given the fact that China had revised the priority as "D", IATA was requested to consider the position of China before pursuing the proposal; and Bangladesh suggested IATA to consider: Kathmandu (KTM) – Saidpur (SDP) – Silchar (KKU) – Imphal (IIM) – Kunming (KMG). 27/1/2022: Nepal is having inhouse discussion and consultation with different stakeholders and planning to coordinate with the affected States soon. 1/3/2022: IATA may request that

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.



[Map provided by ICAO]

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. 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

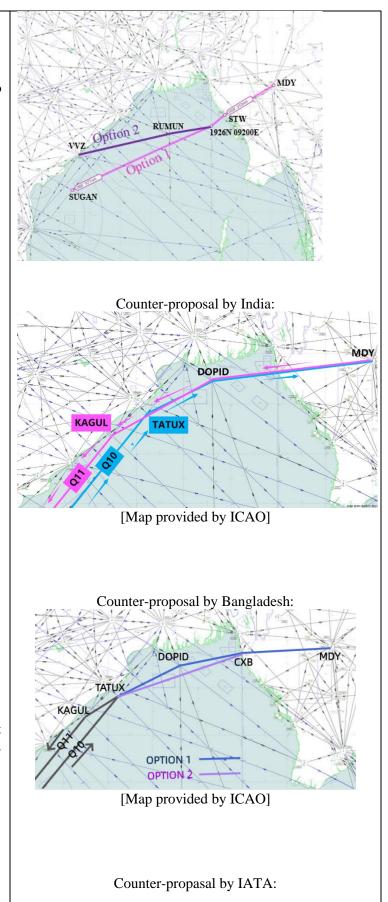
continueously discus	s it within the
ATS route catalogue.	

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	SOKAM
of UL333 is under utilised against	
other Kabul routes largely due the 45	
NM 'penalty' in track mileage the	
current route structure requires. The	SERKA
route's primary benefit at this stage	
will be westbound and during	
BOBCAT traffic flow. Extension	
completed SERKA to SOKAM.	
Update 08/02/13: PRA – SERKA has	PRA
been approved by India after lengthy	
consultation with the military,	
complementary action from Pakistan 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	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
from India on 02/08/2019: Since the	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
proposal is pending concurrence of	
Pakistan for a long time, India need to	HUI'
renegotiate the proposal with military	
after comments from Pakistan.	
17/08/2020: The designated	
established military areas in Karachi	
FIR and route structure (crosser	
routes near the boundary with Delhi	
and Kabul FIRs) does not allow the	
establishment of this route. Pakistan	
proposed for deletion. At ATMSG/8:	
IATA preferred this route proposal to	
be retained in the Catalogue. At	
BOBTFRG/3: Pakistan re-affirmed	
that the designated established	
military areas in Karachi FIR and	

route structure (crossing routes near
the boundary with Delhi and Kabul
FIRs) would not permit the
establishment of this route.
1/3/2022:IATA wants this proposal to
be archived and reintroduced if/when
future possibilities permit its success.
BOBTFRG/4: Pakistan reaffirmed
that the proposed route was not
feasible and supported archiving this
proposal for future possibility, and
IATA had no objection.

ATS Route Name	BOB 01
State Priority	
IATA Priority	HIGH
Requested by (when)	IATA (05/11/2021: ATM/SG/9)
States/Administrations	India, Bangladesh, Myanmar (Chennai, Kolkata, Dhaka,
Involved	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 primary and FL310 as secondary)
Benefit (fuel,	Option 1:
environmental)	Narrow body fleet: 94 NM / 12 minutes, 456 kg fuel, 1.5 tonnes CO ₂ per flight, 166 tonnes fuel, 548 tonnes CO ₂ annually Wide body fleet: 94 NM / 12 minutes, 900 kg fuel, 3.0 tonnes CO ₂ per flight, 329 tonnes fuel, 1095 tonnes CO ₂ annually
	Option 2: Narrow body fleet: 71 NM / 9 minutes, 344 kg fuel, 1.1 tonnes CO ₂ per flight, 126 tonnes fuel, 402 tonnes CO ₂ annually Wide body fleet: 71 NM / 9 minutes, 679 kg fuel, 2.2 tonnes CO ₂ per flight, 248 tonnes fuel, 803 tonnes CO ₂ annually
Operational Information	About 110 flights per week
(potential airlines, flight	Africa/South Asia – Far East, Southern India – East Coast
frequency, potential city	of the United States
pairs)	

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 - O11. India stated this would improve the availability of getting optimum flight levels (well covered by SUR and VHF in Kolkata FIR) and require the approval of Bangladesh and Myanmar. ATMSG/10: Bangladesh commented that India's counter-proposal overflies the designated established military areas, so Bangladesh needs to consult with the military authorities. BOBTFRG/4: Bangladesh noted that the consultation with the military authority was still under process. To avoid the Danger area, two more alternative options are proposed with a connection to the new DVOR (Cox's Bazar, CXB), which is



would be available in three months, detailed as follow: DOPID-Cox's Bazar (CXB DVOR)-MDY or, TATUX-Cox's Bazar (CXB DVOR)-MDY. In response to Bangladesh's counterproposal, IATA suggested specifying a new waypoint at the position of Cox's Bazar instead of waiting for the availability of the new DVOR and proposed the following route connecting Cox Bazar-APAGO-CHILA and onwards joining ATS Route A599:

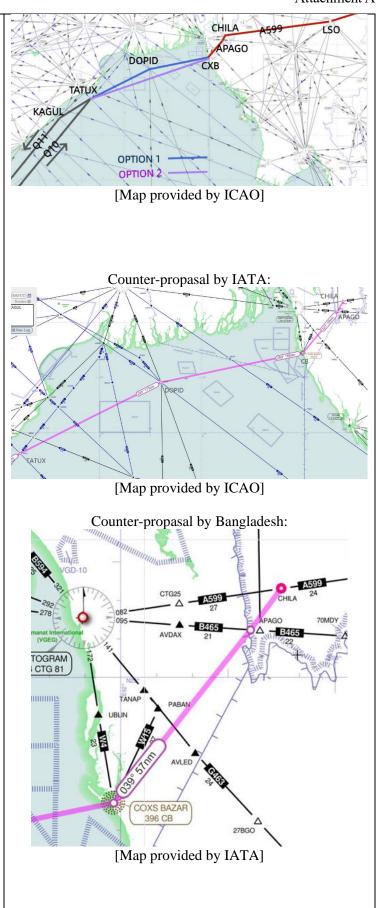
under construction and

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 bidirectional 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.



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

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

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.

ATS Route Name	BOB 02
State Priority	
IATA Priority	HIGH
Requested by (when)	IATA (05/11/2021: ATM/SG/9)
States/Administrations	India, Bangladesh, Myanmar (Kolkata, Yangon FIRs)
Involved	
Route Description	KAKID 203833N 0865951E – TEBOV 202504N
	0915949E – Mandalay (MDY)
	Counter proposal by India:
	Eastbound: Q10 - TATUX - DOPID - MDY.
	Westbound: MDY - DOPID - KAGUL - Q11.
Flight Level Band	All suitable flight levels
Benefit (fuel, environmental)	Narrow body fleet: 50 NM / 6 minutes, 228 kg fuel, 750
	kg CO ₂ per flight, 83 tonnes fuel, 274 tonnes CO ₂
	annually
	Wide body fleet: 50 NM/ o minutes, 450 kg fuel, 1.5
	tonnes CO ₂ per flight, 164 tonnes fuel, 548 tonnes CO ₂
	annually
Operational Information	About 110 flights per week
(potential airlines, flight	Africa/South Asia – Far East, Southern India – East
frequency, potential city pairs)	Coast of the United States
Remarks: The proposed route	
would not only provide	
efficient connection over Bay	
of Bengal, but it would also	
help in de-congesting ATS routes A791, B465, Q19 and	MDY
Q20. At BOBTFRG/3: In order	XX XX
to conduct better assessment,	KAKID
India requested IATA to	TEBOV
provide the analysis of the fleet	
equipage in ADS-C/CPDLC	
and PBCS.	
(08/08/2022)India in its	
assessment on BOB01 &	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
BOB02 commented the	
proposed routes are outside the	Counter-proposal by India vs original proposal by
SUR and VHF coverage	IATA:
imposing unnecessary	
restrictions for all other cross-	MOY
cutting routes. Therefore	KAKID DOPID
proposed alternatives as below:	Nonth of the second of the sec
Eastbound aircraft via Q10:	TÈBOV
TATUX - DOPID - MDY. Westbound aircraft: MDY -	KAGUL
DOPID - KAGUL - Q11. India stated this would improve the	8
availability of getting optimum	6
flight levels (well covered by	
SUR and VHF in Kolkata FIR)	[Map provided by ICAO]
Soft and vin in Romana int)	

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

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

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

Bangladesh's counter-proposes for BOB 01 in the first place.

complexity and constraints in the area, Bangladesh and India

wanted to focus on

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.

Possible route overflies VGD-31(permanently removed):



[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 con

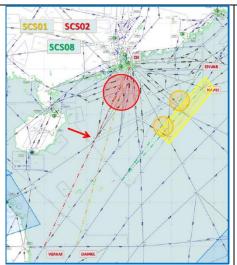
IATA, Bangladesh, and India agreed with this decision	

 $SAIOSEACG/3-WP/17 \\ 16-19/04/2024$ Attachment A

Chapter 2: Southeast Asia

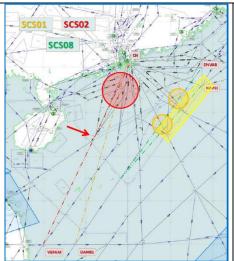
(referred to SEACG for review)

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)
210400 2 0001- P 11011	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
Benefit (ruei, en virollinentar)	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	Sit Tear River Betta airports
for M771 into the Pearl River Delta	
area. During SEACG/19 in WP09	CH
Hong Kong China advised they had	The state of the s
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	DAMEL
to review the integration of this route	
proposal with its planned airspace	7 7 7 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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.	
10000 WOLC HOT LCCOHHICHUCU.	



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

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,	More than 200 flights per week
potential 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	CH
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	VEPAM
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.

ATS Route Name	SCS 11
State Priority	В
IATA Priority	LOW
Requested by (when)	IATA (10/03/2015: SEACG/22)
States/Administrations Involved	Viet Nam, Singapore, Malaysia (Ho Chi Minh,
	Singapore, Kuala Lumpur FIRs)
Route Description	Kuala Terengganu (VKR) 0521.6N 10304.9E –
	BITOD 0715.4N 10407.1E
Flight Level Band	
Benefit (fuel, environmental)	6 NM / 0 minutes, 23 kg fuel per flight, 167 tonnes
	fuel, 527 tonnes CO ₂ annually
Operational Information	MH, VN
(potential airlines, flight frequency,	At least 20 flights per week
potential city pairs)	KUL – HAN/PNH/SGN
Domontos At CEACC/26, Molonois	

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:

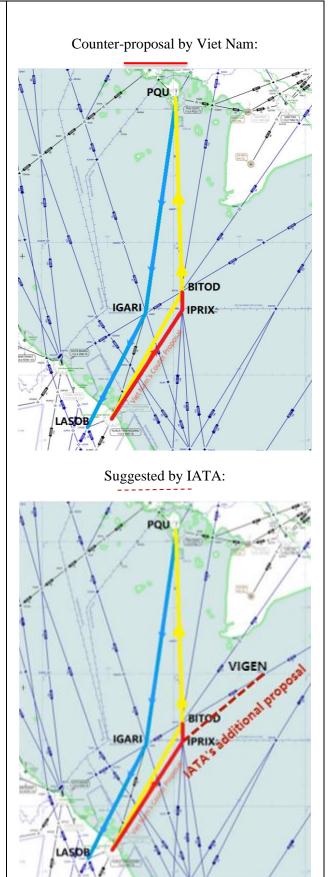
unidirectional Eastbound: VKR-IPRIX-BITOD-PQU; and unidirectional Westbound: PQU-IGARI-LASOB.

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.

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



routes. The timeline depends on the
Malaysia and Singapore sides.
, , ,

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	14/1/1/1
circumnavigate major confluence of	
air traffic at VPK thus providing	XIII X A
better efficiency for flight operating	
from/to KBR. Operation at 29,000 ft	ENREP
and below to avoid crossing traffic	ENREP
within the South China Sea	TERIX
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.	
had yet to materialise.	

ATS Route Name	SCS 15
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)
Route Description	ENREP 045223.88N 1041442.00E – KAMIN
	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	ÈNREP
within the South China Sea	116 310
airspace. At SEACG/26: Singapore	- 10 312nm
commented implementation of this	
route would be possible with the	KAMIN
implementation of space-based	
ADS-B in Singapore FIR, planned	
by end of 2019; and IATA would	THE TO THE
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 racommended 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.	
myorved had yet to materialise.	

ATS Route Name	SCS 16
State Priority	C
IATA Priority	MEDIUM
Requested by (when)	Viet Nam (01/04/2019: SEACG/26)
States/Administrations Involved	Singapore, Viet Nam (Singapore, Ho Chi Minh
	FIRs)
Route Description	Implementation of new uni-directional northbound
	ATS route:
	ENREP 045223.88N 1041442.00E – New Waypoint
	(FIR BDRY between Singapore and Ho Chi Minh) –
	Tan Son Nhat (TSN) 104859.20N 1063844.10E
Flight Level Band	
Benefit (fuel, environmental)	48 NM / 6 minutes, 252 kg fuel, 794 kg CO ₂ per
	flight, 576,576 kg fuel, 1,816 tonnes CO ₂ annually
	Reduction in Distance/Time/Fuel/CO2 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,	5111 – 5011
potential city pairs)	
Remarks: Update from Viet Nam	NATURAL IN THE SECOND OF THE S
on 22/07/2019: Due to crossing	
routes, this route proposal would be	TSN
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.	
11/2/2022: Singapore commented	
the concerned area is fully covered	
by ADS-B to support the proposal	
and ready to discuss on the	ENREP
implementation.	
11/02/2022: Viet Nam commented	
they will continue to assess a	San II Victoria II San
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	

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,	At least 30 flights per week
potential city pairs)	KUL – SGN – East Asia
Remarks: At ATMSG/7: China proposed to concentrate on the implementation of parallel route to A1 (SCSTFRG Priority Area 1). This route proposal may not be needed, if the parallel route to A1 is implemented. 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).	ILENKO +

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,	160 flights per week
potential 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	LH
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: No update	
(discussion on planned	
implementation of parallel route to	ROT
A1 was still ongoing at the	
SCSTFRG meeting).	

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
	10925.9E
Flight Level Band	28,000 – 46,000 ft
Benefit (fuel, environmental)	48 NM / 6 minutes, 252 kg fuel, 794 kg CO ₂ per flight, 576,576 kg fuel, 1,816 tonnes CO ₂ annually For ZGGG-VVNB with B789, 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 city pairs)	44 flights 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 planing (Viet Nam). Retention discussed at SEACG/22. At SEACG/26: China commented that this route proposal was very unlikely to be implemented, and recommended for this route proposal to be deleted from the Catalogue; and Viet Nam proposed alternate option: Noi Bai (NOB) 2112.8N 10550.1E – Cat Bi (CBI) 2049.1N 10642.5E – Nankang (BHY) 2135.2N 10925.9E to serve traffic between Ha Noi/Cat Bi/Van Don (new international airport in Viet Nam) and destinations in China and beyond. 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	NOB LH SAMAS

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.

ATS Route Name	SCS19
State Priority	A
IATA Priority	MEDIUM
Requested by (when)	Malaysia (20/Mar/2023)
States/Administrations	Malaysia, Thailand
Involved	
Route Description	This proposal essentially focuses on extending M757 to replace the conventional route Y508
Flight Level Band	Topino vii on tonioni 1000
Benefit (fuel,	The implementation of PBN Airspace and to simplify FPL
environmental)	in Kuala Lumpur FIR.
Operational Information (potential airlines, flight frequency) Remarks:	DANEO OBLEX
At SAIOSEACG/2, Thailand indicated its full support for the extension of M757.	TRANGE TRANGE

ATS Route Name	SCS20
State Priority	B
IATA Priority	MEDIUM
Requested by (when)	Malaysia (20/Mar/2023)
States/Administrations	Malaysia, Singapore, Indonesia, Viet Nam
Involved	
Route Description	This proposal essentially focuses on extending M765 to replace the
	conventional routes W546 and G468.
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, Indonesia expressed its favourable consideration on this proposal, further assessment was needed.	TOTAL STATE OF THE PARTY OF THE

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,	
Indonesia expressed its	INTO ANNO IN THE STATE OF THE S
favourable consideration	TOTAL STATE OF THE
on this proposal, further	MEDIN TO SERVICE TO SE
assessment was needed.	155 Mer 257
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ATS Route Name	SCS22
State Priority	B
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,	THE THE PARTY OF T
Indonesia expressed its	
favourable consideration	The state of the s
on this proposal, further assessment was needed.	
assessment was needed.	
	Same A
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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:	

ATS Route Name	MEKONG 01
State Priority	B
IATA Priority	MEDIUM
Requested by (when)	Thailand /Vietnam (21/Mar/2023)
States/Administrations	Thailand, Lao PDR, Vietnam (Bangkok, Vientiane, Hanoi)
Involved	
Route Description	VINH PHUC (VPH) 211634N 1053604E –
	Bangkok/Vientiane FIR BDRY 174842.10N 1042043.51E -
	SAKON NAKHON (SKN) 171250.89N 1040812.34E –
	ROT-ET (ROT) 160700.59N 1034619.45E
Flight Level Band	
Benefit (fuel,	Potential to save 12 minutes and 750 kilograms of fuel
environmental)	per flight (VVNB – VDSR)
Operational Information	Allow flights from Guangzhou FIR and beyond on the
(potential airlines, flight	ATS route R474 to fly shorter distance into Bangkok
frequency)	FIR/VTBS/VDSR
Remarks:	
This route was proposed as	
Conditional Route (CDR)	(BORES) (BORES
to promote international	VPH (c) Total March
CDR arrangement among	
the Mekong states.	COLUMN CO
The route availability will	
be subject to civil-military coordination in pre-tactical	100
and tactical level.	
and tactical level.	(UNIC PROMISED)
At SAIOSEACG/2, Viet	The state of the s
Nam supported the	COCCOUNTS AND YOU
initiative by Thailand, and	and the same of th
added that the new route	
would be further realigned	+ +
with the existing primary	One of the state o
routes within Hanoi FIR.	The state of the s
For the update, the approval	VT D64 GND-UNL
procedure of the route proposal by its higher	MON-FRI 2200-1700 AAAAA 174842.10N
authority is in progress, and	1042043.51E
which expected to be	(Microsophia)
completed soon. It is	
suggested that Thailand	AND
organize a tripartite	Common of the co
meeting involving all States	POT
concerned to further discuss	ROT
the detail.	

SAIOSEACG/3- WP/17 16 - 19/04/2024 Attachment A

Chapter 3: East Asia

(referred to: States or EATMCG as appropriate for review)

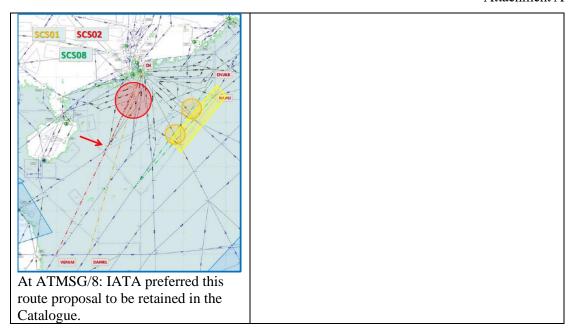
ATS Route Name	CHA 01
State Priority	D
IATA Priority	HIGH
Requested by (when)	IATA (01/09/2018)
States/Administrations Involved	China (Lanzhou, Beijing, Wuhan FIRs)
Route Description	Yinchuan (YHD) 3820.8N 10624.6E – Zhengzhou
	(CGO) N3431.1 E11350.6
Flight Level Band	8,400 – 15,000 meters
Benefit (fuel, 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	УНО
as part of ATS route B208 since	
2008. Therefore, the route	
description was amended as YHD –	聚 [] -] · · · · · · · ·
CGO accordingly. At ATMSG/7:	
China commented the proposed route would create numerous	
conflicts, and was not consistent	
with its planned route network.	CGO
23/10/2020: China commented	
there was no progress on this	
proposal. At ATMSG/8: IATA	
preferred this route proposal to be	
retained in the Catalogue, and	
proposed the route segment	Start Akus
between CGO – ZHO – HFE to be	DUBAS THE STATE OF
made available for eastbound too.	THE CONTROL ON TOX
In response to IATA's proposal,	13.7 NS 15 113 50.8 ARUS 125 125 125 125 125 125 125 125 125 125
China commented the following	Colusive Co. Sept 76th 100 Sep
uni-directional routing systems had	DETA C JOHN CONTROL CO
been implemented for flight	P. AREA C CH. 1023 133 134 135 137 137 137 137 137 137 137 137 137 137
planning:	W129/Kaladoa
(a) eastbound: HFE – FYG –	WANG
ZHOU – CGO. (b) westbound:	ARO4 o ETZ 25.0 (Zhengzhou CTA ZSCR)5
CGO – W129/KAMDA –	112.9 FV BPM
W128/FYG. At SAIOACG/10 and	[Map provided by China]
SEACG/27: China proposed for	[wiap provided by Cillia]
deletion.	
3/3/2022: China commented how	
the current uni-directiona routing	
system works in actual operation	
(see the Map provided by China)	
adding that it could reduce heavy	
traffic and conflict over ZHO.	

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.	118.7 TO 118

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) –
Elight Loyal Dand	Baotou (BAV)
Flight Level Band Benefit (fuel, environmental)	28,000 – 46,000 ft 5 minutes, 6,090 tonnes fuel, 19,185 tonnes CO ₂
Benefit (fuer, environmentar)	annually
Operational Information	85 flights per week
(potential airlines, flight frequency,	65 fights per week
potential city pairs)	
Remarks: New route proposal	
replacing the previous from	
Weixian to Novokuznetsk. At	NOSPI
ATMSG/7: China and Mongolia	
commented the proposed route was	
not possible for implemention; and	
IATA would provide feedback after	
a comprehensive review of the	R. A. P. S. W. S.
Catalogue by its focus group,	THE STATE OF THE S
expected in March 2020. 23/10/2020: China proposed for	C. A. The San William
deletion. At ATMSG/8: IATA	
preferred this route proposal to be	
retained in the Catalogue.	
	BAV

ATS Route Name	IATA 02
State Priority	D
IATA Priority	HIGH
Requested by (when)	IATA (01/09/2018)
States/Administrations Involved	China (Kunming, Guangzhou FIRs)
Route Description	OMBON 3321.4N 10416.3E – Sanjiang (SJG)
	2546.6N 10936.6E
Flight Level Band	8,400 – 15,000 meters
Benefit (fuel, environmental)	14 minutes, 6,657 tones fuel, 20,636 tonnes CO ₂
	annually
Operational Information	56 flights per week
(potential airlines, flight frequency,	Europe – Pearl River Delta airports
potential city pairs)	
Remarks: China comments: There	
are existing routes between	OMBON
OMBON and RO. 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.	1-71AV 71
	SJG

ATS Route Name	SCS 08
State Priority	D
IATA Priority	HIGH
Requested by (when)	IATA (01/09/2018)
States/Administrations Involved	Hong Kong China, Taibei ACC (Hong Kong,
	Taibei FIRs)
Route Description	DULOP 1814.2N 11432.6E – ELATO 2220.0N
	11730.0E – A1 or
	DULOP 1814.2N 11432.6E – ENVAR 2159.5N
	11730.0E – M750 or
	DULOP 1814.2N 11432.6E – KAPLI 2110.0N
	11730.0E – G86
Flight Level Band	28,000 – 46,000 ft
Benefit (fuel, environmental)	6 minutes, 850 kg fuel, 2,687 kg CO ₂ per flight,
	1,863 tonnes fuel, 5,868 tonnes CO ₂ annually
	Note: Savings based on DULOP – ENVAR.
Operational Information	BR, CI
(potential airlines, flight frequency,	At least 42 flights per week
potential city pairs)	Southeast Asia – North Asia airports
Remarks: Supports traffic Northeast	
Asia – Southeast Asia. Potentially	APU
problematic as will impact South	7 🔊
China Sea's traffic arrangements	
(IATA to review). During SEACG/19	ELATO Taiwan
in WP09, Hong Kong China advised	ENVAR A
they had studied the proposal for track shortening and advised that	HCN
allowing flights to proceed from	KAPLI
M771 DUMOL to	DULOP
ELATO/ENVAR/KAPLI will likely	DOLOF
create a bottle neck at these points	Philippines
and result in flights not getting	7
optimum levels or increase ground	17/2
delay to departures from Hong Kong	ENT.
and Macao to East Asia. However,	
Hong Kong China would continue to	A BAN
study this proposal. Most preferred:	100 NM
DULOP – ENVAR. 30/10/2020:	
Hong Kong China commented these	
two routes are too close to the Hong	
Kong and Manila FIR boundary (see	
the yellow shaded areas in the figure	
below). New confliction points would	
be created and the distance/time	
available for traffic resolution is not	
sufficient. There are safety concerns	
and these proposed routes were not	
recommended. Therefore, the two	
routes are not recommended.	



ATS Route Name	TPE 01
State Priority	С
IATA Priority	HIGH
Requested by (when)	IATA (01/09/2018)
States/Administrations Involved	Taibei ACC, Japan (Taibei, Fukuoka FIRs)
Route Description	Anbu (APU) 2510.6N 12131.3E – New Waypoint
_	(FIR BDRY beween Taibei and Fukuoka) –
	MIKES 2935.2N 12544.9E
Flight Level Band	28,000 – 46,000 ft
Benefit (fuel, environmental)	16 NM / 2 minutes, 107 kg fuel, 337 kg CO ₂ per
	flight, 1,168 tonnes fuel, 3,680 tonnes CO ₂
	annually
Operational Information	BR, CI
(potential airlines, flight frequency,	210 flights per week
potential 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	Mikes
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	TAN TAN ET X AM
IFATCA, the proposed route TPE 01	to the state of th
partially overlaps ATS route Q11	
and several other ATS routes that	
already existed in the area, and	APU
therefore it was not possible to	
implement a new route in Taibei	
FIR. Counter-proposal: Northbound	XXX II XVI
traffic: APU – A1 – DRAKE – Q11	
– WP900 – L4 – LIPLO – Y741 – BOLUT – MIKES.	
Southbound traffic: MIKES – BOLUT – B576 – SALMI – Q11 – DRAKE – APU.	



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

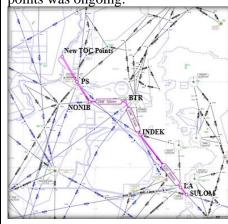
25/2/2022: Japan commented no progress at this stage, although this proposal is recognized as one of the business coordination projects by both Taibei and Fukuoka ACCs. 23/9/2022: IFATCA, the segment in the counter-proposal for both north and south already existing, the segment btw BOLUT and MIKES is subject to the Fukuoka FIR.

Chapter 4: Trans-Regional (South Asia)

(referred to: States or AIRARD TF as appropriate for review)

ATS Route Name	AFG 01
State Priority	В
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
_	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	Concor Concor
proposal to INDEK-BABEV-	DIFF. A SIRVA
SURVI, which will shorten the	
flight distance. Original proposal: IMTIL – SURVI. At ATMSG/7:	SURVI
Pakistan counter-proposed for this	DOUNT STREET
route via SURVI – Peshawar (PS).	COMO!
Pakistan informed the meeting the	On Other
proposed route between SURVI and	OCITY COST
PS had been submitted to the	WIND DEFINE
relevant authorities of Pakistan for	PS
approval. 17/08/2020: Pakistan	OC 2015 OF 21 OF 2
informed this route proposal was	On the last of the
still under consideration by the	1000 1000 1000 1000 1000 1000 1000 100
relevant authorities. At ATMSGN2	Taxa Taxa
IATA assigned "MEDIUM"	CASTON CALL STATE CALLED
priority; implementation benefits;	
and operational information. IATA	
also proposed to review the time	
restrictions LAJAK-SULOM (1500-	
2359Z) to make proposal beneficial to more traffic. At SAIOACG/10	
and SEACG/27: Pakistan informed	
this route proposal was still under	
consideration by the military	
authority. 15/09/2021: Pakistan	
informed that the military authorities	
of Pakistan had approved the	
following ATS route proposal (bi-	
directional), on the request of	
Tajikistan and Uzbekistan: SULOM	
– Lahore (LA) – INDEK –	
Islamabad (BTR) – NONIB –	
Peshawar (PS) – 343433N	
0710533E (new TOC points	
between Afghanistan and Pakistan).	
The above route proposal was under	
approval process of Pakistan Federal Government and coordination	
Government and coordination	

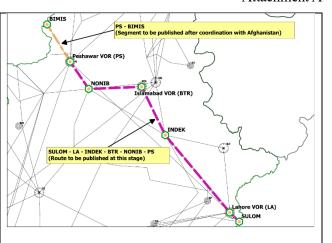
process with Afghanistan and Tajikistan regarding further route connectivity in Afghanistan airspace and beyond from the new TOC points was ongoing.



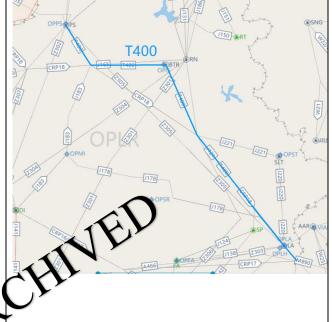
18/02/2022: Upon approval on a new RNAV bi-directional int. ATS route in Lahore FIR by the Federal Government of Pakistan, Pakistan requested a new RNAV Route designator to APAC RO awaiting the response from Afghanistan for further connectivity in Kabul FIR (the last segment from Peshawar VOR to PAK/AFGHAN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



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



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 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	PINAX
assigned "LOW" priority and recommended for deletion.	
Note: continuation of this proposal	
is 29.007 "TAPIS-PINAX-SORAM	
TENRO" in RDGE Middle Asia	
ATS Route Catalogue.	8
Tita tiome commogne.	
	3
	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/Tallingstations Involved	Kabul, Lahore FIRs)
Route Description	Bandar Abbas (BND) 2711.8N 05622.0E –
	DAVEP 2742.4N 05720.1E – NABOX 2816.5N
	05826.0E – PEKES 2859.5N 05952.3E – DANOV
	2914.7N 06023.9E – ULOVI 2919.8N 06034.5E –
	PIRAN 2934.1N 06108.1E – OGOGO 3024.9N
	06309.1E – LOVIT 3109.1N 06500.4E – PAROD
	3129.0N 06554.0E – A453 – HANGU 3329.1N
	07100.3E – Penshawar (PS) 3358.7N 07131.0E –
	G325 – Gilgit (GT) 3555.2N 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,	About 43 flights per week
potential city pairs)	
Remarks: High Priority MID 02 (a)	Flight Plan 🐧 🕒 🖺 🖰
preferred over MID 02 (b) if only	Aircraft TAIL# \$\frac{1}{2} \text{ Spd MO82 Ait 000 Fuel 0}
one route is chosen. 17/08/2020: The	Destination
proposed entry into Pakistan airspace	ETD Zulu H-HMM MM/DD
allows very minimal response time	⇒ BND ⇒ DAVEP ⇒ NABOX ⇒ PEKES ⇒ DANOV ⇒ ULOVI ⇒ PIRAN ⇒ OGOGO ⇒ LOVIT ⇒ PAROD ⇒ HANGU ⇒ PS G325
(less than two minutes) for traffic de-	GT G325 PURPA
confliction at DOBAT and SITAX	□ Briefing & For (IE Nav Lx)
and other crosser routes.	AMMALY VIXA NO PROPERTY AND
- 7	
DOBAT STAN	
and the second s	
Pakistan proposed for deletion. At	
ATMSG/8: IATA assigned "HIGH"	
priority; implementation benefits;	
and operational information. IATA	
preferred this route to be retained in	
the Catalogue and commented this	
route could be used for contingency	
and for aircraft with limited oxygen	
requirements. At BOBTFRG/3:	
Pakistan re-affirmed that the	
proposed route was not feasible.	
BOBTFRG/4: Pakistan reaffirmed	
that the proposed route was not	
feasible and supported archiving this	
proposal for future possibility and	
IATA had no objection.	

SAIOSEACG/3- WP/17 16 - 19/04/2024 Attachment A

Chapter 5: Trans-Regional (East Asia)

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

ATS Route Name	FE0008 / RDGE 15.003 / APAC RUS 5
State Priority	С
IATA Priority	MEDIUM
Requested by (when)	Russia, IATA (01/09/2018)
States/Administrations Involved	Russia, Japan (Khabarovsk, Fukuoka FIRs)
Route Description	Implementation of two new bi-directional ATS
	routes:
	a. SIBIR 432154.00N 1352024.00E – New
	Waypoint (FIR BDRY between Khabarovsk and
	Fukuoka) – New EKVIK Waypoint
	b. ARLAS 425906.00N 1343553.88E– New
	Waypoint (FIR BDRY between Khabarovsk and
	Fukuoka) – New EKVIK Waypoint
Flight Level Band	27 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Benefit (fuel, environmental)	No fuel gain but could help to reduce ground delays
	for HND/KIXNRT operations to Europe.
Operational Information	AF, BA, KL, LH
(potential airlines, flight frequency,	
potential city pairs)	10 1/ = 1 1/ b) 3 1/4 × 1//
Remarks: To improve north-south traffic flows between Khabarovsk	
FIR and Fukuoka FIR, Original	Tell XXXX
SIBIR – LURED – EKVIK	SIBIR
proposal will be changed due to	ARLAS
new position of EKVIK further east	
as a result of the planned airspace	
structure change in Japan, when	
both new ATS routes will be	/ +
implemented, the existing B451	
ARLAS – LAKTA – LURED –	
IGROD will be withdrawn. Based	EKVIK
on the results from the coordination	TX I I I I I I I I I I I I I I I I I I I
meeting between the Russian	
Federation and Japan in February	
2017, the implementation could not	
be progressed as Japan indicated that no further airspace changes for	A A A A A A A A A A A A A A A A A A A
the Fukuoka FIR are acceptable	
before the 2020 timeframe	
(RDGE/27). Russian Federation:	
New waypoint needed 404751N	
1361021E (FIR Boundary),	
coordination with Japan (Fukuoka	
FIR) required. Alternative bi-	
directional route to EN15.	
23/10/2020: Japan commented no	
update. At ATMSG/8: IATA	
assigned "MEDIUM" priority and	
recommended for this route to be	
retained in the Catalogue.	
15/10/2021: Japan commented no	
update.	

SAIOSEACG/3- WP/17 16-19/04/2024

ATS Route Name	FE0021 / RDGE 13.028 / APAC RUS 4
State Priority	C
IATA Priority	HIGH
Requested by (when)	Russia, IATA (01/09/2018)
States/Administrations Involved	Russia, Japan (Khabarovsk, Fukuoka FIRs)
Route Description	Implementation of new bi-directional ATS route:
_	AVGOK – Niigata (GTC) 375729.90N
	1390653.60E
Flight Level Band	
Benefit (fuel, environmental)	20 NM / 4 minutes, 440 kg fuel per flight, 2,400
	tonnes fuel, 7,550 tonnes CO ₂ annually
Operational Information	AF, AY, JL, KL, NH
(potential airlines, flight frequency,	About 105 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), a	AVGOK
difference in coordinates of the	
AVGOK waypoint was identified in	
the aeronautical information	
publications of Russia and Japan.	
The incorrect coordinates were	
confirmed by Japan and a decision	X V / · / · I V AMOUNT / ·
was made to report this issue to the	
appropriate Regional ICAO Offices.	
The Russian Federation proposes	CTC STATE
the following coordinates (4336N	
and 13815E) for the AVGOK	
waypoint. Based on the results from	
the coordination meeting between	
the Russian Federation and Japan in	
February 2017, the implementation of the bi-directional ATS Route	
AVGOK – GTC requires further studies due to the involved military	
area. RDGE/27 meeting in 2017:	
could become a conditional route.	
Further discussion with Japan is	
required through the ICAO APAC	
Office. To reduce route distance of	
13NM as compared to current	
routing AVGOK – KADBO – GTC.	
23/10/2020: Japan commented no	
update. At ATMSG/8: IATA	
assigned "HIGH" priority and	
recommended for this route to be	
retained in the Catalogue.	
15/10/2021: Japan commented no	
update.	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

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 SONDO WASAN SONDO WASSO E1311285 WASSO E1311285 RASON Proposals for discussion: - to withdraw; 130 23 00E - to establish

ATS Route Name	FE0050 / RDGE 20.011
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 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 date as part of project in 2015. Khabarovsk/Vladivostok airspace re-organisation project, (in map No. 7).	WASAN SONDO WASAN

ATS Route Name	FE0051 / RDGE 20.012
State Priority	C
IATA Priority	
Requested by (when)	DPRK, Russia (01/09/2018)
States/Administrations Involved	Russia, DPRK (Khabarovsk, Pyongyang FIRs)
Route Description	Implementation of new uni-directional eastbound
	ATS route segment: MESOV 383800N 1302300E –
	ADNUR 421230N 1304810E
Flight Level Band	29,000 – 53,000 ft
Benefit (fuel, environmental)	
Operational Information	
(potential airlines, flight frequency,	
potential city pairs)	Muraveyka BG
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 SONDO WASAN SONDO RESTRICT RASON RA

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

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 SONDO WASAN

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

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

ATS Route Name	FE0056 / RDGE 20.017
State Priority	C
IATA Priority	
Requested by (when)	DPRK, Russia (01/09/2018)
States/Administrations Involved	Russia, DPRK, Japan (Khabarovsk, Pyongyang,
	Fukuoka FIRs)
Route Description	Implementation of new bi-directional ATS route
	segment:
	RIVAT 412900N 1321600E – New Waypoint (FIR
	BDRY between Pyongyang and Fukuoka)
Flight Level Band	
Benefit (fuel, environmental)	
Operational Information	
(potential airlines, flight frequency,	
potential city pairs)	W. Alemanda P.C.
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 AND HAMUN SONDO INCHEON FIR 38 38 90 0N 130 23 00E Marraceyka BG Address Ad

Chapter 6: Pacific

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

ATS Route Name	WPC 01
State Priority	D
IATA Priority	HIGH
Requested by (when)	IATA (30/07/2018)
States/Administrations Involved	Papua New Guinea, Indonesia, USA, Philippines,
	Japan, Taibei ACC (Port Moresby, Ujung Pandang,
	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	OTHER MANAGEMENT AND AND ADMINISTRATION OF THE PARTY OF T
flights between Manila and Australasia. At ATM/SG/6: PNG	TINHO
	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	
this route. 23/10/2020: Japan	
commented this route proposal was	VNO
under consideration. 16/09/2021:	
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.	