



Agenda Item 4: ATS route realignment

Routing from Europe to RKSI

(Presented by IATA)

SUMMARY

This paper presents a route proposal from Europe to RKSI which avoids the leg sequence GM-HUR-LADIX-CG and results in considerable fuel and CO₂ savings.

This paper relates to –

Strategic Objectives:

A: *Safety – Enhance global civil aviation safety*

C: *Environmental Protection and Sustainable Development of Air Transport – Foster harmonized and economically viable development of international civil aviation that does not unduly harm the environment*

Global Plan Initiatives:

GPI-7 Dynamic and flexible ATS route management

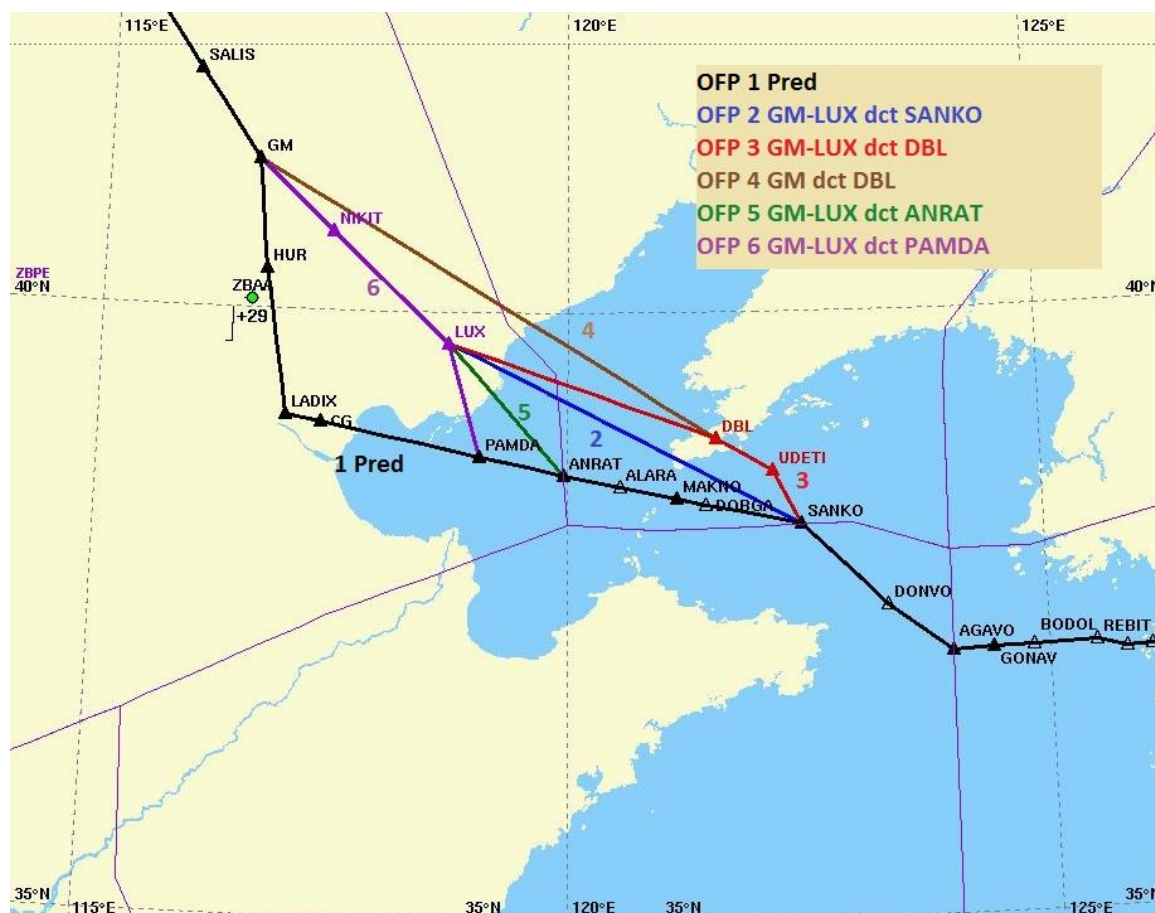
1. INTRODUCTION

1.1 The routing from Europe to Seoul enters Chinese airspace at point POLHO. It continues on airway B339 via SALIS, GM, HUR, LADIX, then further on airway A326 via CG, PAMDA, ANRAT, ALARA, MAKNO, DORGA to SANKO. The following proposal shows some alternative routings between GM and SANKO resulting in shorter flight times, lower fuel burn and lower CO₂ emission.

2. DISCUSSION

Detail Proposals

2.1 The following figure shows different alternative routing:



The black routing shows the current routing, while the colored routings are possible alternative routings resulting in different figures of fuel and CO₂ savings.

2.2 The following table shows the savings for the different alternatives for a daily bidirectional flight per year.

Routing	Description	Flight Time (min)	Fuel Saving (t)	CO ₂ Saving (t)
OFP 6 GM-LUX dct PAMDA	existing Intl. Airway V1, Time restriction due to ZBR018/019/021, avbl. for MUCICN	4	470	1460
OFP 5 GM-LUX ANRAT	existing Intl. Airway V1 from GM to LUX, through ZBR018/019, LUX to ANRAT on Nat. Airwy X2, through ZBR021	6	680	2140
OFP 3 GM-LUX dct DBL	existing Intl. Airway V1 from GM to LUX, through ZBR018/019, LUX to SANKO on new segment, through ZYR612	7	790	2470
OFP 2 GM-LUX dct SANKO	existing Intl. Airway V1 from GM to LUX, through ZBR018/019, LUX to DBL on new segment, through ZYR612	7	870	2730
OFP 4 GM dct DBL	new Airway GM to DBL, through ZBR021/022 and ZYR612	7	880	2760

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) discuss any relevant matters as appropriate.

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