



AerOTHAI Aeronautical Radio of Thailand

บริษัท วิทยุการบินแห่งประเทศไทย จำกัด

Preparation for BOBCAT Service Resumption

ATFM/SG/15

28 April – 2 May 2025



- Refresher: What is BOBCAT?
- BOBCAT System Configuration
 - ATS Route Structure
 - Aircraft Spacing Parameters
- Next Steps for BOBCAT Resumption
- Timeline



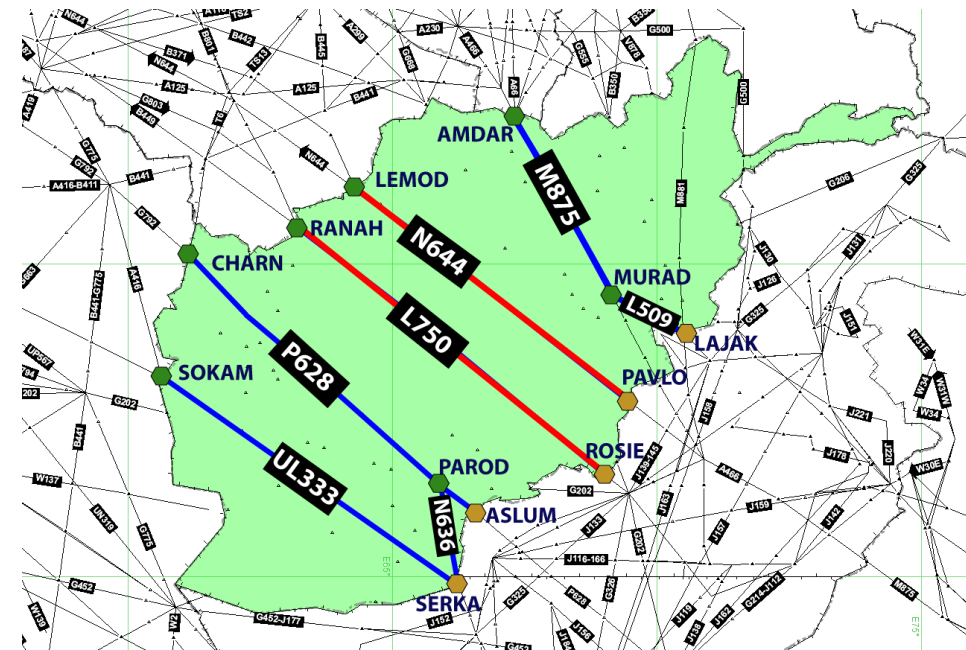


The Challenge

- Nighttime curfew at European airports causes flights from South/Southeast Asia to converge over Kabul FIR while enroute to Europe between 2000 – 2359 UTC

The Objective

- Smooth traffic flow through the limited routes and flight levels available in Kabul FIR





BOBCAT									
Home System Configuration Slot Request Slot Allocation Preference Documents Contact us Log out									
Menu									
Flight Allocation All Allocation									
Waypoint Allocation									
View Free Slots									
Allocation History									
Flight Allocation (All member) Refresh in 174 second(s)..									
Organization: AEROTHAI Departure Date: Thu, 15 Dec 2016 View									
Departure Airport: ▶									
Flights With Slot Allocation									
▶	Callsign ▲	Aircraft	Dep	Dest	Date	ETD	AWUT	Delay	
1 ▶	ACA071	B787900	VIDP	CYYZ	15Dec16	1920	1935	0	
2 ▶	AFL235	A333	VIDP	UUEE	15Dec16	1955	2014	0	
3 ▶	AFR225	B77W	VIDP	LFPG	15Dec16	2033	2101	0	
4 ▶	AIC101	B77W	VIDP	KJFK	15Dec16	2005	2025	0	
5 ▶	AIC127	B77W	VIDP	KORD	15Dec16	2030	2050	0	
6 ▶	AIC191	B77W	VABB	KEWR	15Dec16	2000	2015	0	
7 ▶	AUA026	777-23	VTBS	LOWW	15Dec16	1655	1720	0	
8 ▶	BAW12	A388	WSSS	EGLL	15Dec16	1515	1535	0	
9 ▶	BAW142	B772	VIDP	EGLL	15Dec16	2150	2205	0	
10 ▶	BAW16	B77W	WSSS	EGLL	15Dec16	1515	1535	0	
11 ▶	BAW34	B789	WMKK	EGLL	15Dec16	1605	1625	0	
12 ▶	DLH761	A388	VIDP	EDDF	15Dec16	2200	2223	0	
13 ▶	DLH763	A346	VIDP	EDDM	15Dec16	2020	2043	0	
14 ▶	DLH773	B744	VTBS	EDDF	15Dec16	1650	1710	0	
15 ▶	DLH779	A388	WSSS	EDDF	15Dec16	1555	1615	0	
16 ▶	HVN11	A350	VVTS	LFPG	15Dec16	1655	1717	7	
17 ▶	HVN19	A350	VVNB	LFPG	15Dec16	1645	1710	10	

The Solution

- Allocate **ATFM Slots** for entry into Kabul FIR to flights based on their requests
 - **CTOT** from departure airports
 - **Designated route and entry waypoint** into Kabul FIR
 - **CTO** at the entry waypoint
 - **Assigned Flight Level** to go through Kabul FIR
- Airlines can request changes to their slots through the system



BOBCAT Service: the Current Status



(Sky News)

G0145/22 NOTAMR G0062/22

Q) OAKX/QAFXX/IV/NBO/E/000/999

A) OAKX

B) 2206080730 C) 2208312359 EST

E) ATS NOT AVAILABLE IN THE KABUL FIR.

Since 16 Aug 2021



(NBC News)



(ABC News)



Current Status:

- Kabul FIR under “No Enroute ATS” Contingency
- BOBCAT ATFM service suspended
- BOBCAT system functional but slot requests not “monitored” & “approved”
- BOBCAT system preventive maintenance carried out regularly

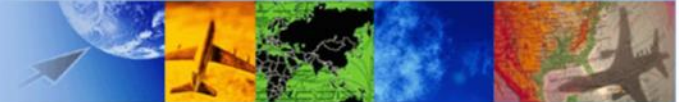

***Discussion ongoing re: BOBCAT
service resumption***



Core Configurations Needed:

- ❑ ATS Contingency Route Structure with Flight Levels
- ❑ Aircraft Spacing Parameter

← → ↻ bobcat.aero/WaypointSpacingInfoForm.aspx



HomeSystem ConfigurationSlot RequestSlot AllocationPreferenceDocumentsContact usLog out

Menu

- Setup System Configuration
 - General Configuration
- User Information
 - Member Information
 - Member Handling Information
 - User Information
 - Password
- Airspace Configuration
 - Airport
 - Waypoint Scenario
 - Waypoint
 - Waypoint Link
 - Waypoint Link Flight Level
 - Waypoint Time Scaling
 - Waypoint Spacing
- Slot Allocation Policy
 - Priority Policy

Waypoint Spacing Information

Scenario Name :

Select Item	Waypoint Name	Scenario Name	Spacing
Select	AMDAR	All Waypoints Active	10
Select	ASLUM	All Waypoints Active	10
Select	BETNO	All Waypoints Active	10
Select	BIROS	All Waypoints Active	10
Select	CHARN	All Waypoints Active	10
Select	DI	All Waypoints Active	5
Select	DOBAT	All Waypoints Active	10
Select	IKULA	All Waypoints Active	10
Select	KKJ	All Waypoints Active	10
Select	LEMOD	All Waypoints Active	10

1 2 3 4 5 6 7 8 9 10 ...

Waypoint Name

Scenario Name

Spacing

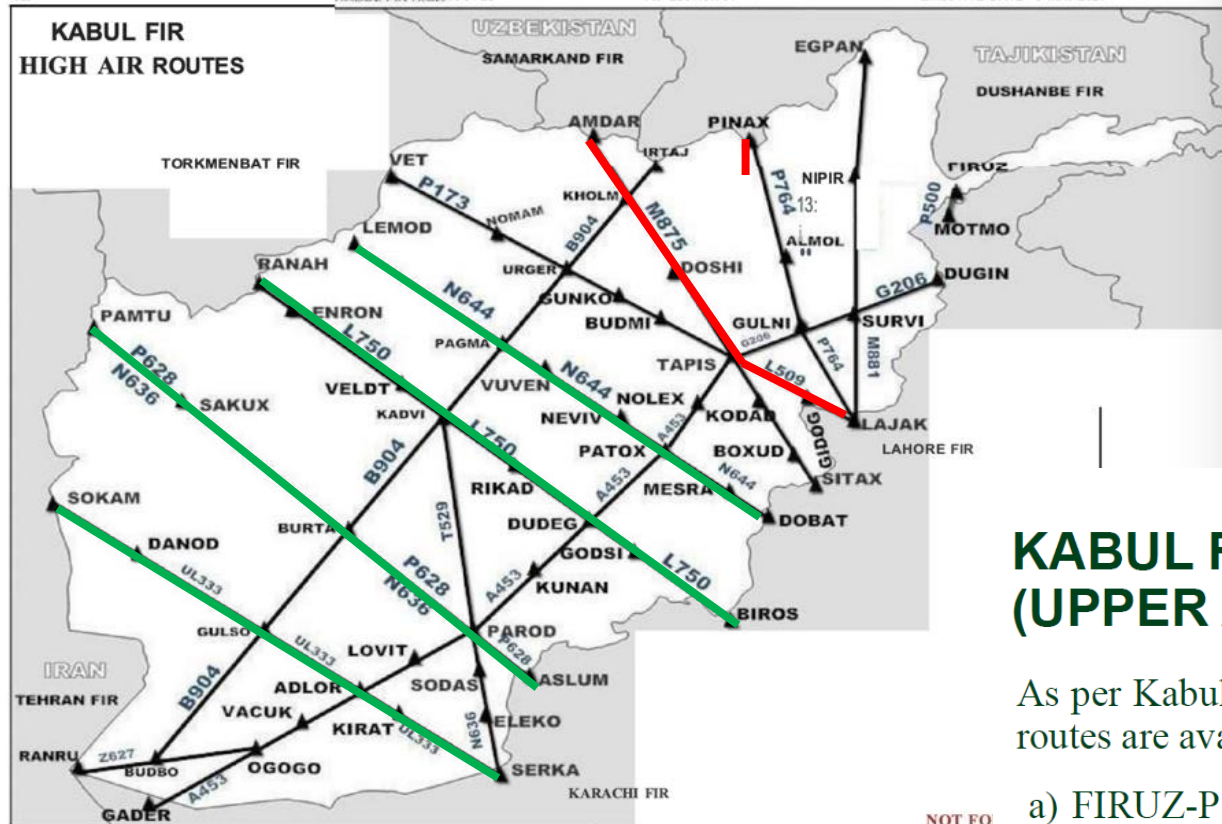


BOBCAT System Configuration: **Route Structure**



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Current Kabul FIR ATM Contingency Plan v3.0, 17 May 2022



NOT EQ



KABUL FIR ATM CONTINGENCY PLAN (UPPER AIRSPACE FL300 – FL510)

As per Kabul FIR ATM Contingency Plan and relevant NOTAMs, the following routes are available for transit traffic:

- a) FIRUZ-P500-MOTMO (FL300-FL510)
- b) AMDAR-M875-TAPIS-L509-LAJAK(FL310-FL510)
- c) LEMOD-N644-DOBAT (*FL360-FL510*)
- d) RANAH-L750-BIROS (*FL360-FL510*)
- e) PAMTU-P628-ASLUM (*FL360-FL510*)
- f) SOKAM-UL333-SERKA (*FL360-FL510*) (*Latest NOTAM G0071/25*)



Conclusion from Kabul FIR CCT Telcon #28 (23 Apr 2025)

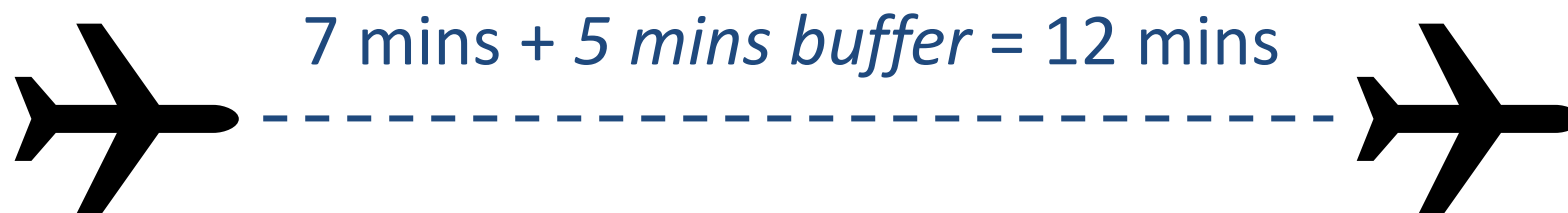
ATS Contingency Routes	Flight Levels	Spacing Requirements
LEMOD – N644 – DOBAT	FL320 – FL510	15 minutes
RANAH – L750 – BIROS	FL320 – FL510	15 minutes
PAMTU – P628 – ASLUM	FL320 – FL510	15 minutes
SOKAM – UL633 – SERKA	FL320 – FL510	15 minutes
AMDAR - M875 – TAPIS – L509 – LAJAK <i>*Pending confirmation with Uzbekistan</i>	FL300 – FL510	15 minutes
FIRUZ – P500 – MOTMO <i>*BOBCAT service not provided</i>	FL300 – FL510 (Delegated to Dushanbe ACC)	Standard separation between Tajikistan/Pakistan



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BOBCAT System Configuration: **Aircraft Spacing**

Current BOBCAT
Spacing Parameter



Kabul FIR
Contingency Plan



New BOBCAT
Spacing Parameter





Next Steps for BOBCAT Resumption

	Checklist	Status	Remark
1	AEROTHAI Internal Arrangement to Reinstate BOBCAT ATFM Service <ul style="list-style-type: none"> ▪ System configuration update ▪ Operational personnel preparation 	Initiated	Estimated 2 – 3 months
2	Traffic Demand Assessment <i>(Potential traffic to be affected by BOBCAT procedure)</i>		Request traffic sample data from Pakistan
3	Review of BOBCAT Safety Assessment Hazard Log (ref: ATFM/TF/6, May 2006)	Initiated	Side Discussion ATFM/SG/15
4	Review of AIP Model & States' AIPs on BOBCAT	Initiated	Side Discussion ATFM/SG/15
5	Review of BOBCAT User Accounts		To Coordinate via e-mails
6	Workshop to (re-)train Stakeholders	TBD	



Proposed Timeline



Docs System HR

24 Jul
AIP publication

4 Sep
AIRAC Effective
BOBCAT Service
commences

May 2025

Jun 2025

Jul 2025

Aug 2025

Sep 2025

Review and update
BOBCAT HazLog

Update AIP model States arrange to update AIPs

Demand
Assessment

BOBCAT maintenance and
configuration update

Bangkok ATFMU personnel prep

ANSP Workshop

Airline
Workshop