

A T C A N D P B N I N A
B U S Y A E R O D R O M E
E N V I R O N M E N T

A P P R O A C H 1 9

Tim Bradding

2 April 2019

INTRO DUCTION

- Hamilton Operations Overview
- BOP PBN Route Structure
- Hamilton PBN Arrivals
- Hamilton PBN Departures
- Controller Training
- PBN Benefits
- PBN Challenges
- Discussion Topics
- Question Time

AIRWAYS

making your world possible

DISCUSSION
POINTS

- Human Factors/HMI
- Workload (Pilot/ATC)
- Head down time (Pilot/ATC)
- Mixed mode operations
- Complexity

AIRWAYS

Hamilton Operations Overview



- Staffing
- Coverage
- Movements
- Airfield
- CTR
- NAVAIDS



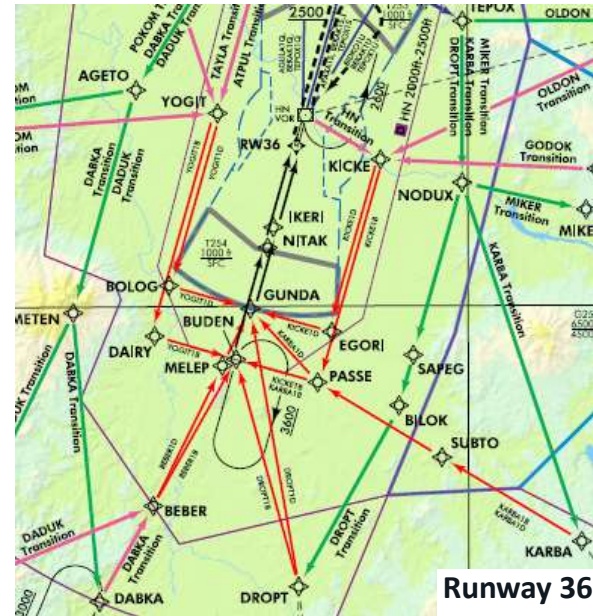
BOP PBN Route Structure RWY18



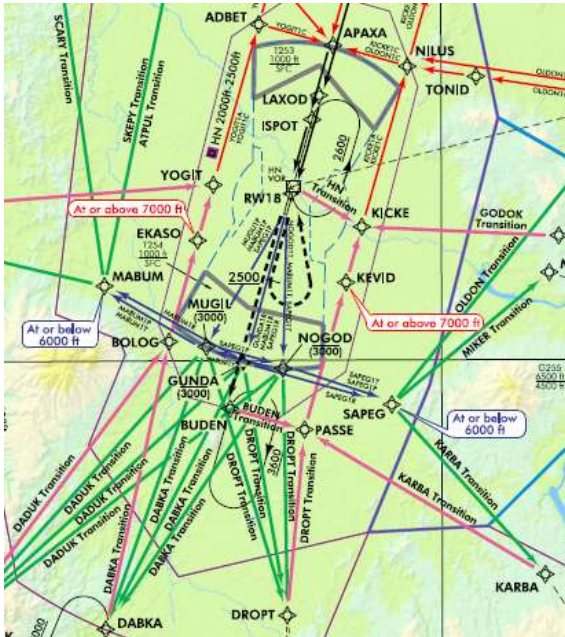
BOP PBN Route Structure RWY36



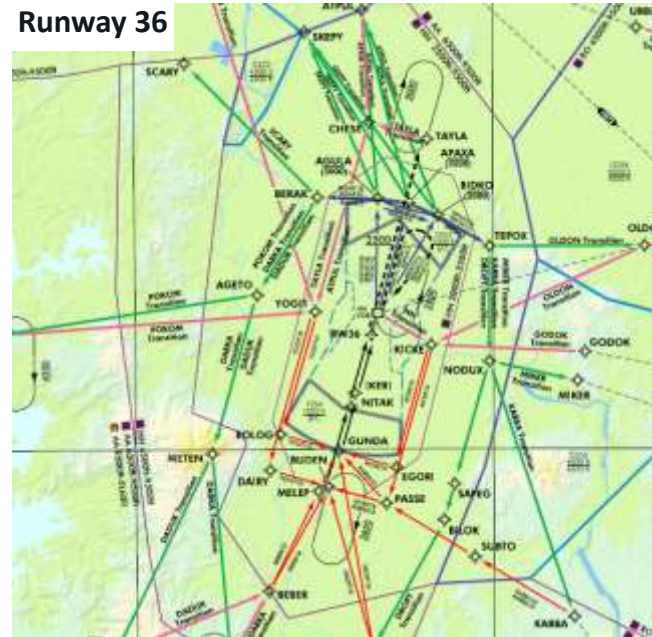
Hamilton PBN Arrivals



Hamilton PBN Departures



way
18



Controller Training

- Combined training with airspace changes and VFR circular flow procedure changes
- Theory training and exam
- Two days of practical simulator training



l
ut



P B N B E N E F I T S

- Ground based clearances (Arrivals etc)
- Efficiency of routing
- Training v Operational Approaches
- Improved capacity
- Ability to align all approaches
- 30 Degree divergent SIDs
- Accuracy of planning (ATC)
- Airspace containment

AIRWAYS

making your world possible

PBN CHALLENGES

- Mixed mode operations
- Head Down time (in class D)
- Complexity (too many options)
- Naming conventions
- Understanding training needs of customers
- Pilot requests for changes
- ATC initiated changes/time factor to change
- Single pilot operations and affect on SA
- Coding/pilot interface with systems (Jepps/Airways)
- Using workarounds

AIRWAYS

making your world possible

DISCUSSION
POINTS

- Human Factors/HMI
- Workload (Pilot/ATC)
- Head down time (Pilot/ATC)
- Mixed mode operations
- Complexity

AIRWAYS

QUESTION
TIME

AIRWAYS

making your world possible