



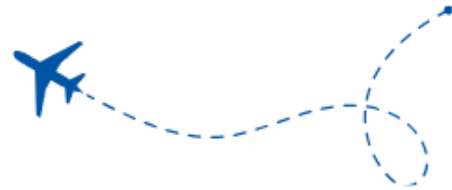
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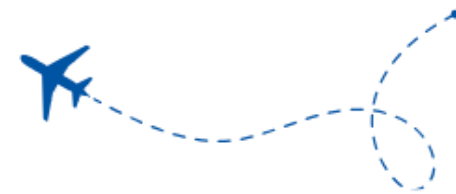




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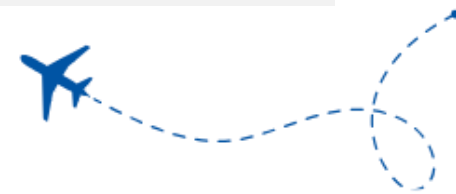
# *The Modern Evolution of Air Traffic Management and New Air Routes*

**(Application of 3 stages of new Airways in  
cairo FIR)**



## INTRODUCTAION

The global aviation industry is growing at a rapid pace. Every day, thousands of commercial flights take off and land around the world, carrying millions of passengers and tons of cargo. As the demand for air travel increases, the skies become busier. To manage this massive growth safely and efficiently, aviation authorities and international organizations must constantly upgrade their systems. One of the most critical solutions to this challenge is the design, creation, and implementation of new air routes and flight paths.



## **Objectives and Purposes of New Air Routes**

**\*The decision to establish new flight paths is driven by several critical objectives. These goals focus on improving efficiency, protecting the environment, ensuring safety, and upgrading the overall passenger experience.**

**\*Maximizing Fuel Efficiency and Saving Energy**

**\*New routes are designed to be as short and efficient as possible, allowing airlines to reduce fuel consumption significantly.**

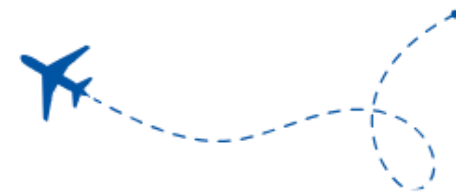
**\*Implementing Direct Routes (Straight-Line Flying).**

**\*Reducing Air Traffic Conflicts and Enhancing Safety**

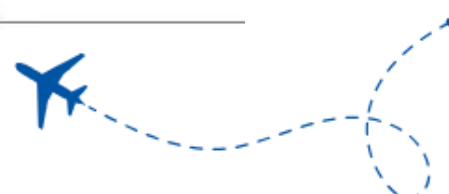
**As the skies become more crowded, the risk of "air traffic conflicts"—where two or more planes come too close to each other—increases. Safety is the number one priority in aviation. By creating new, separate air routes and designing better vertical and horizontal spacing between flight paths, air traffic controllers can significantly reduce conflicts. This restructuring organizes the sky into a safer, more manageable system, reducing the workload and stress on both pilots and air traffic controllers**

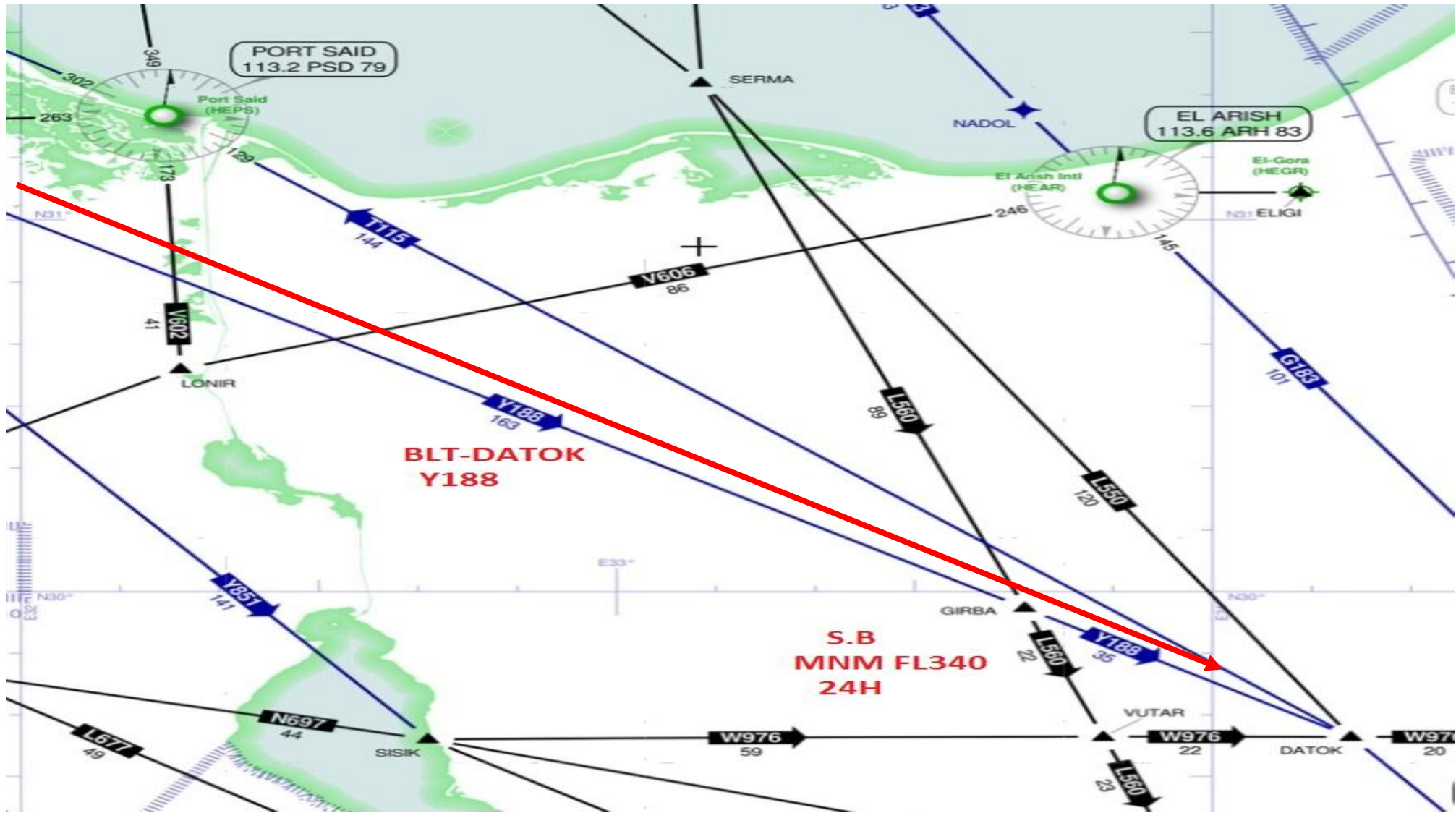
**\*Environmental and Economic Benefits**

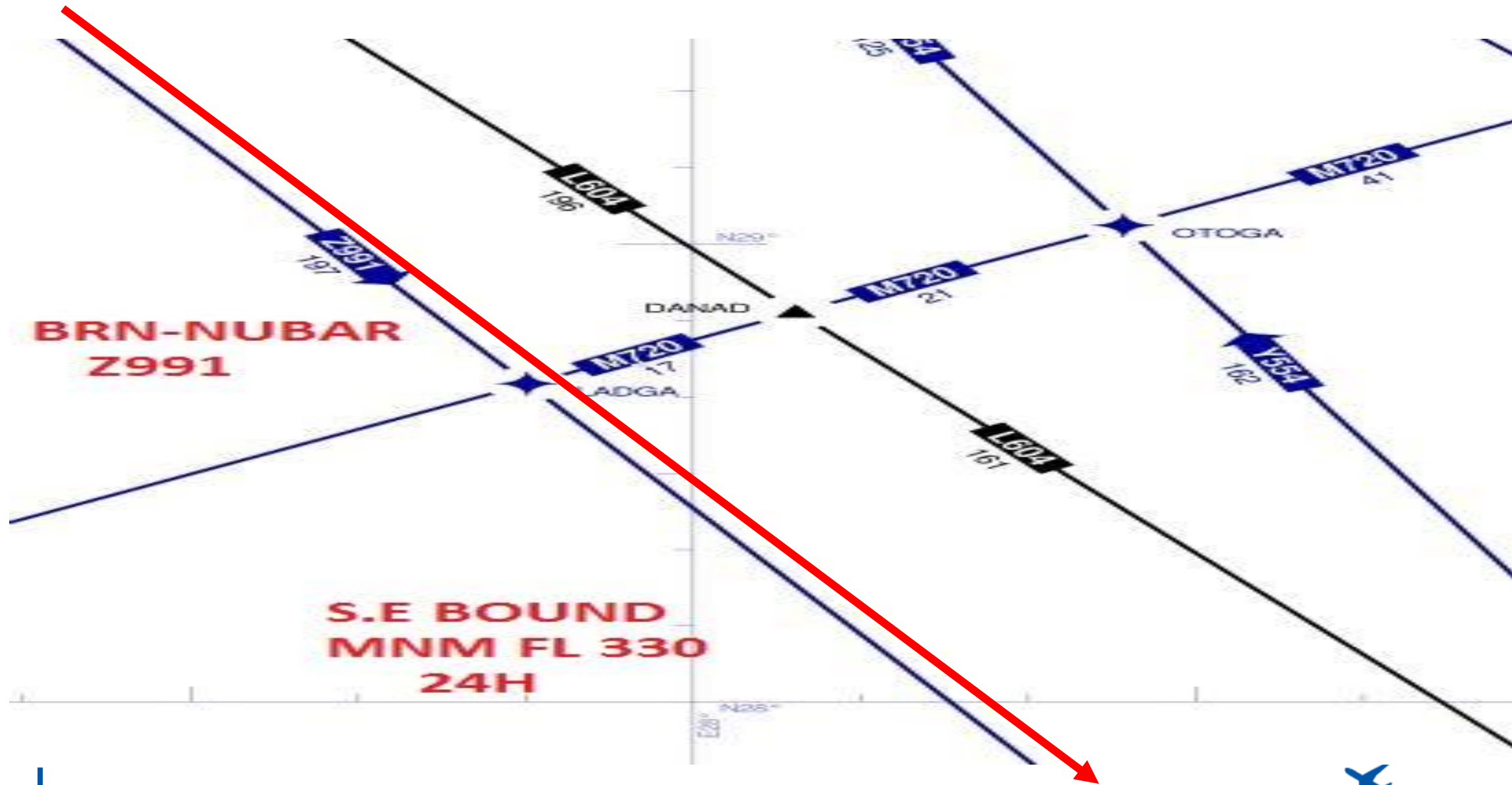
**The advantages of restructuring airspace extend far beyond the aviation industry itself; they have a massive positive impact on the environment and the global economy.**

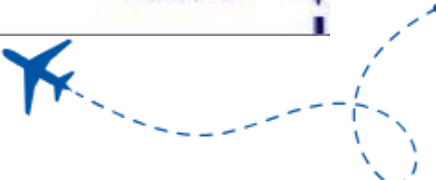
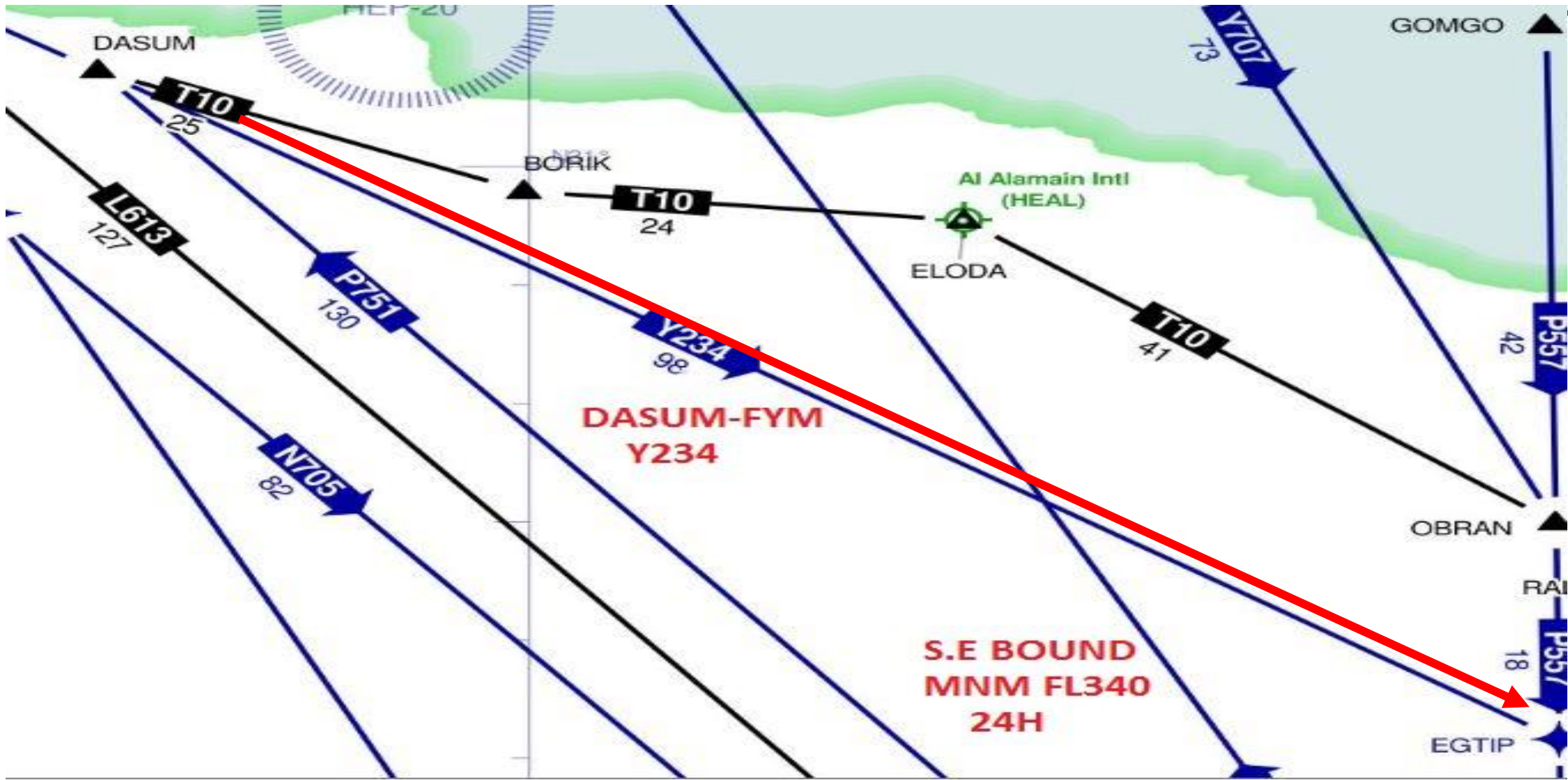


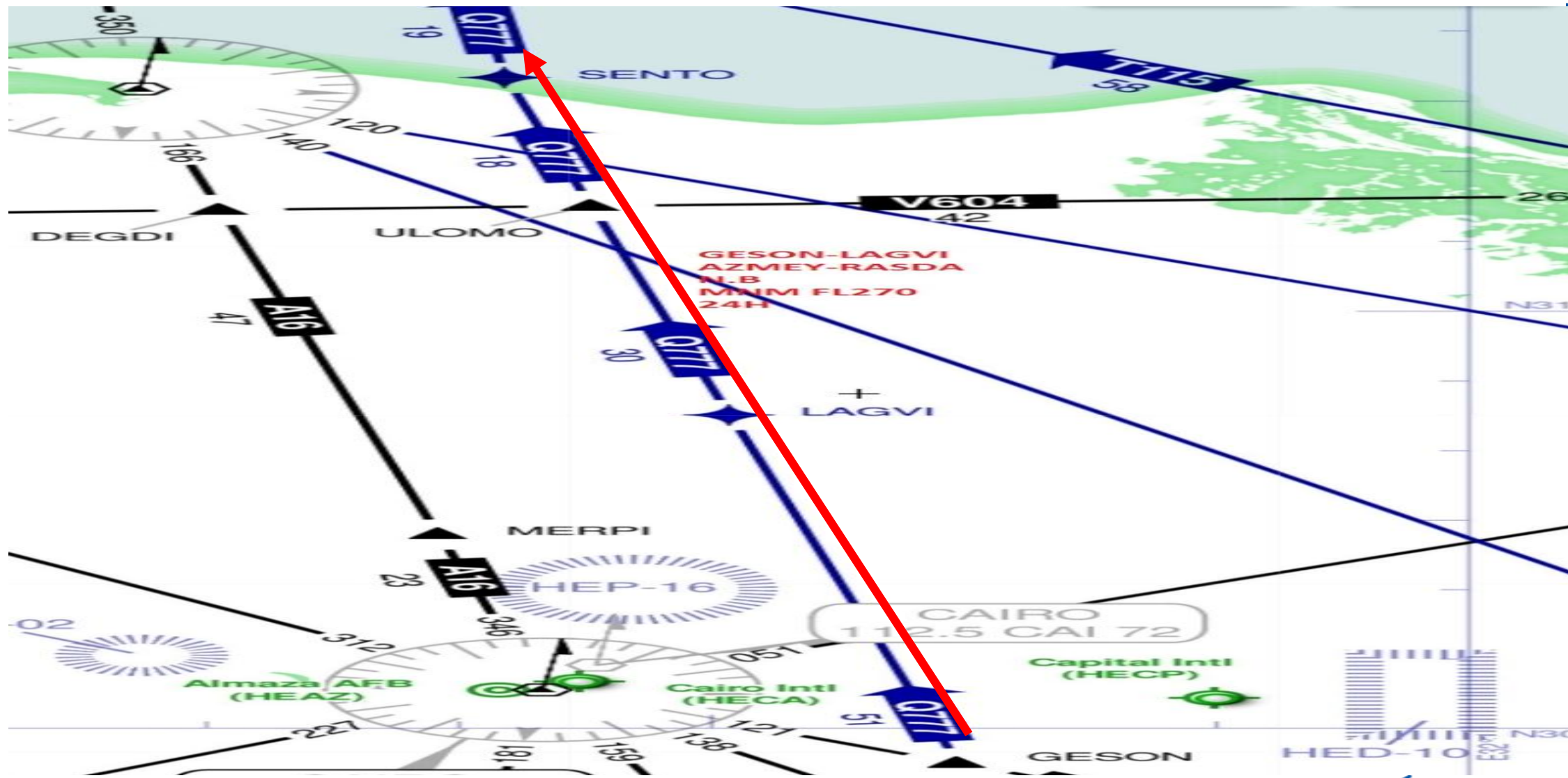


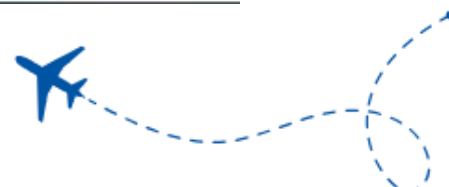
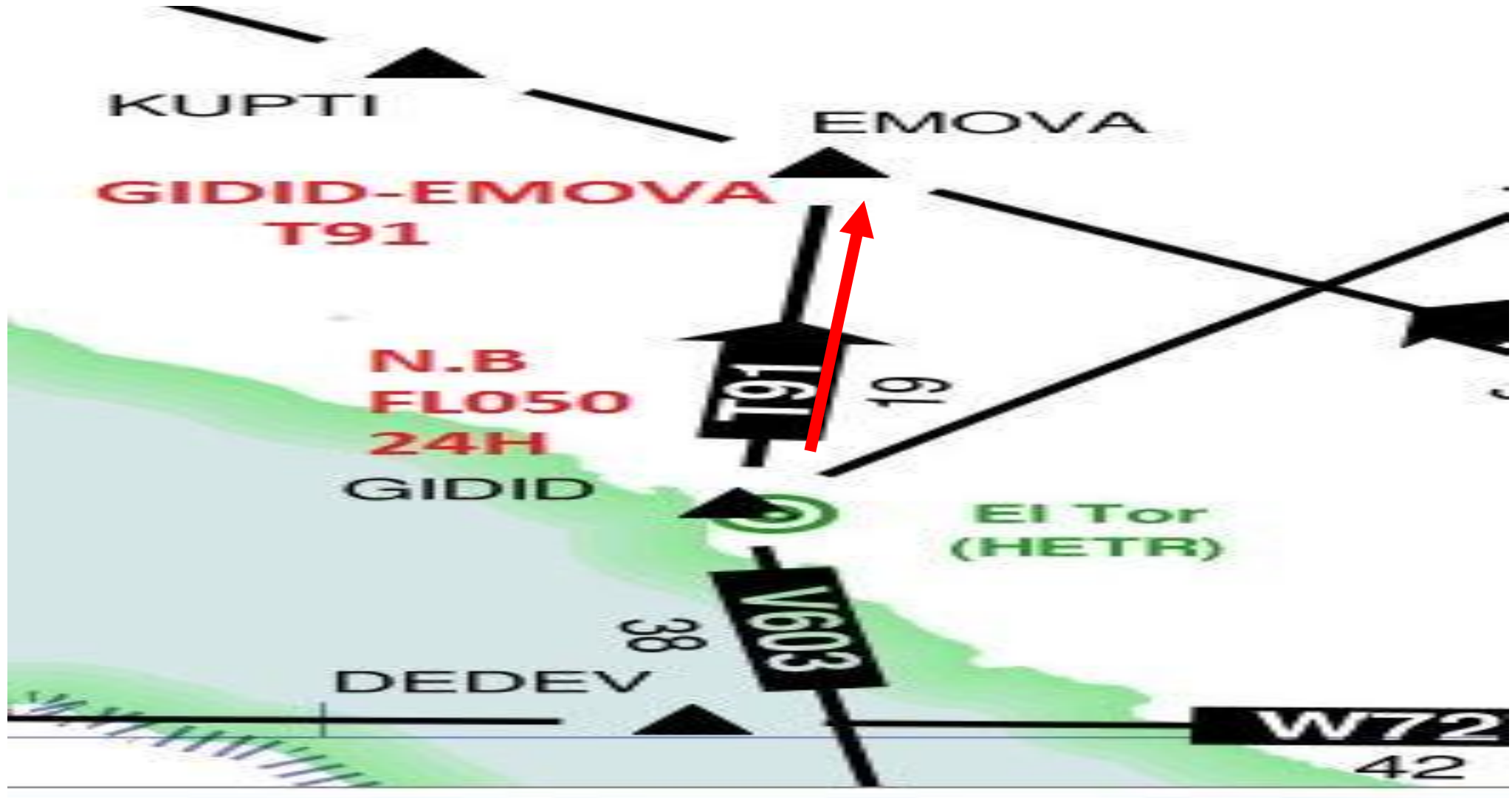


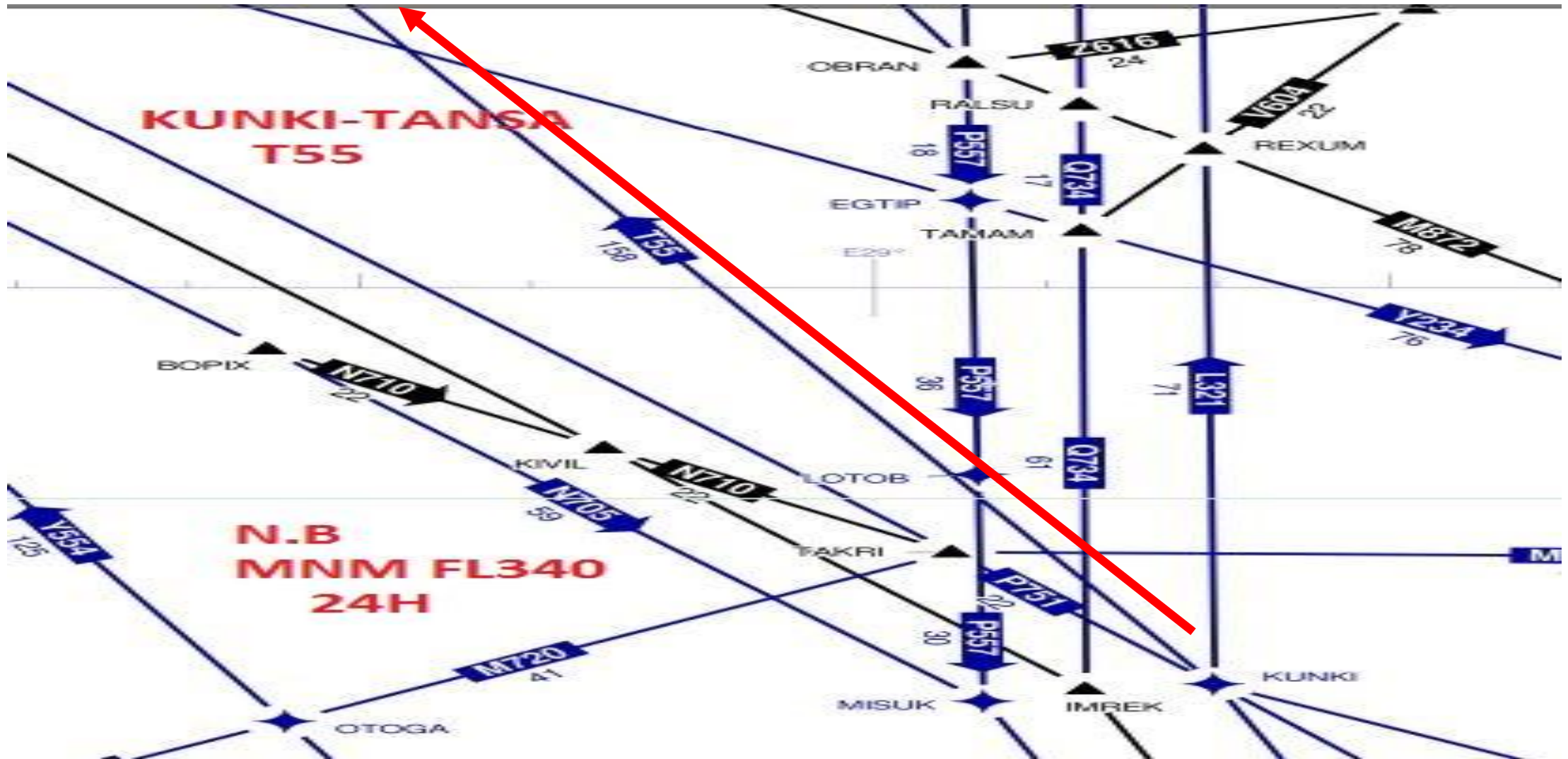


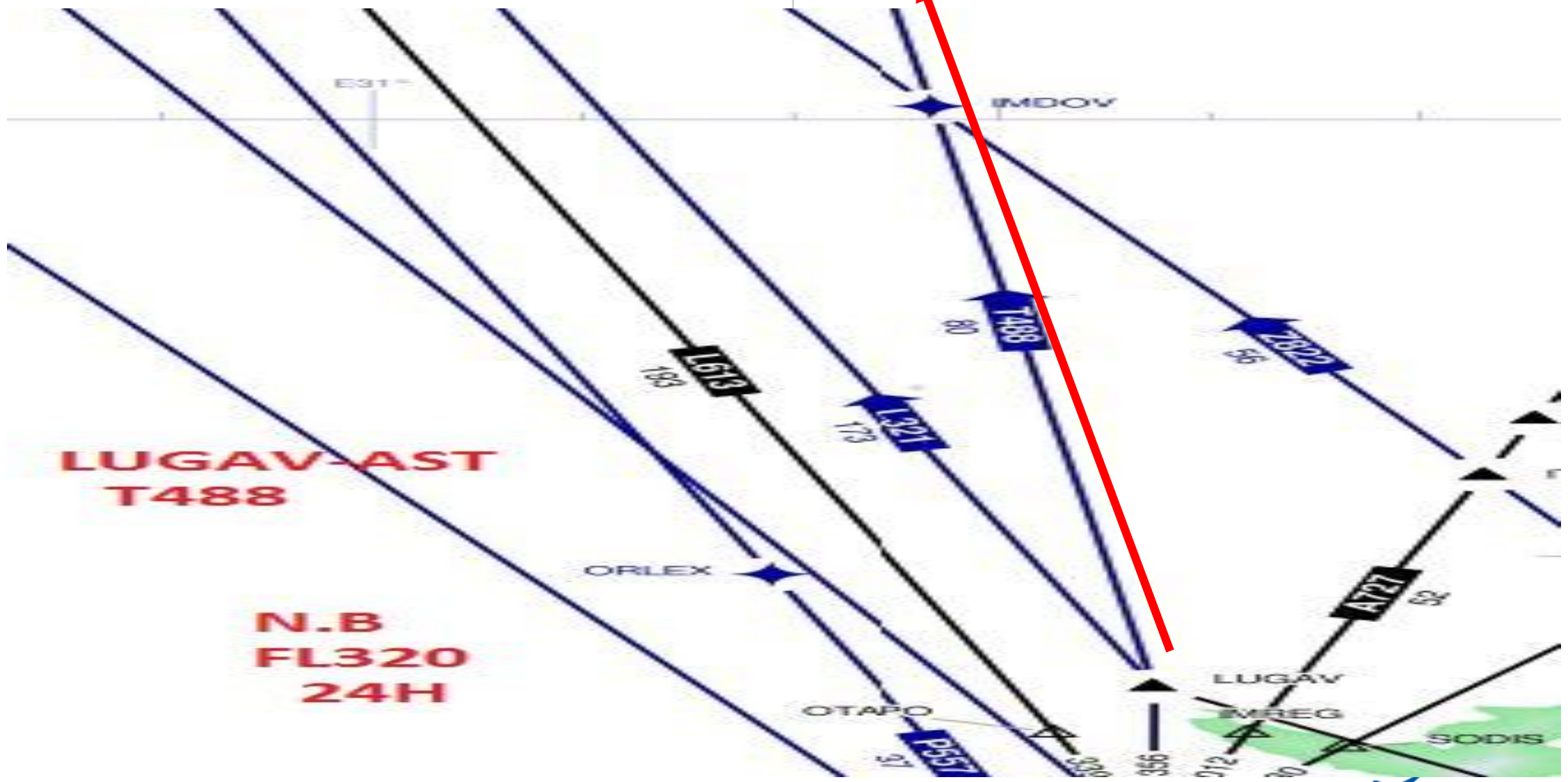








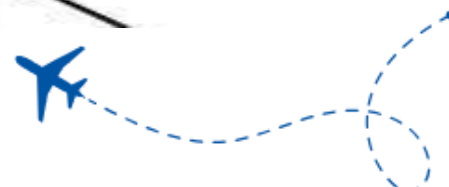
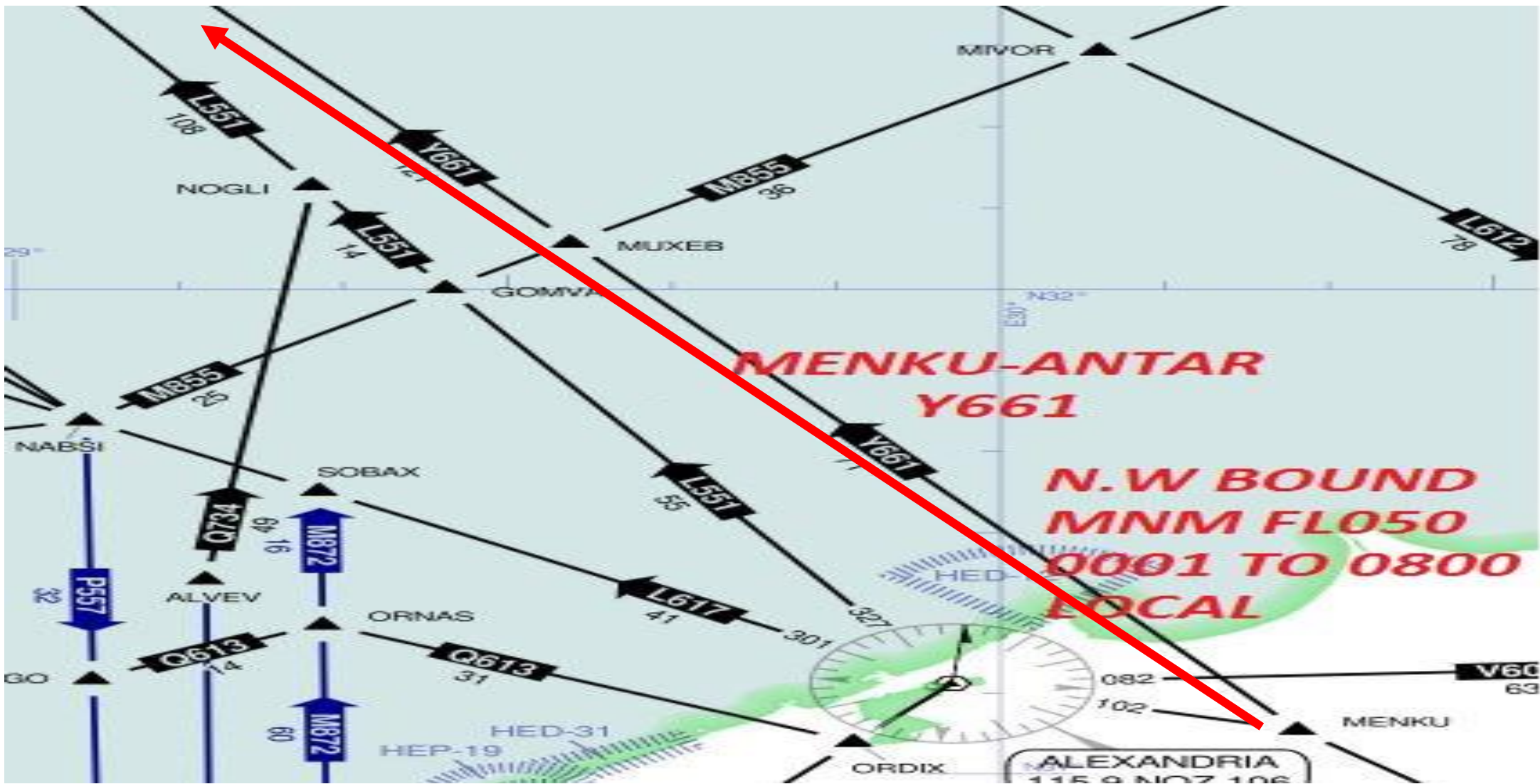




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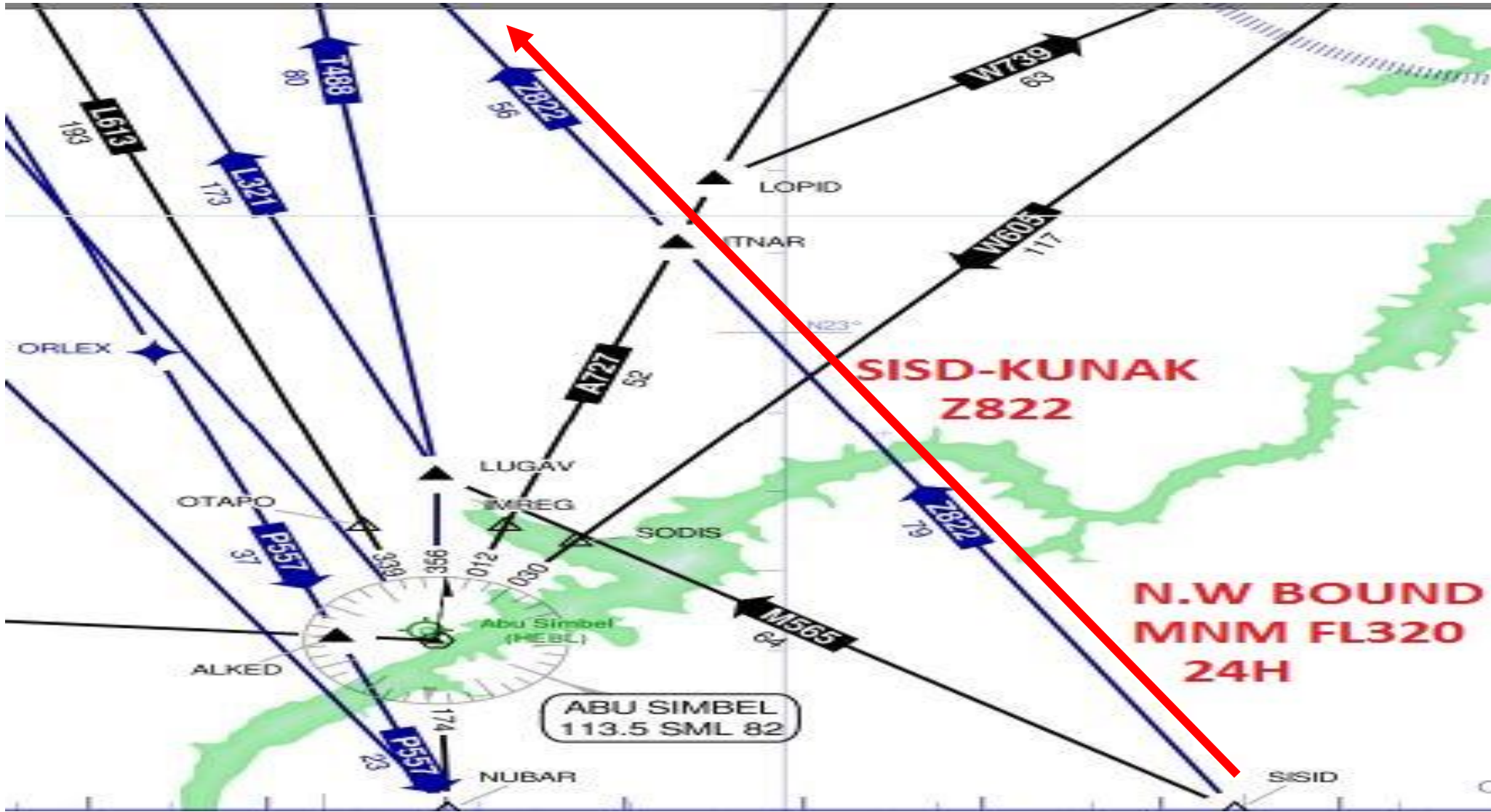


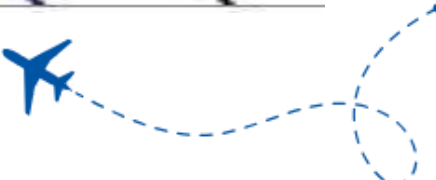
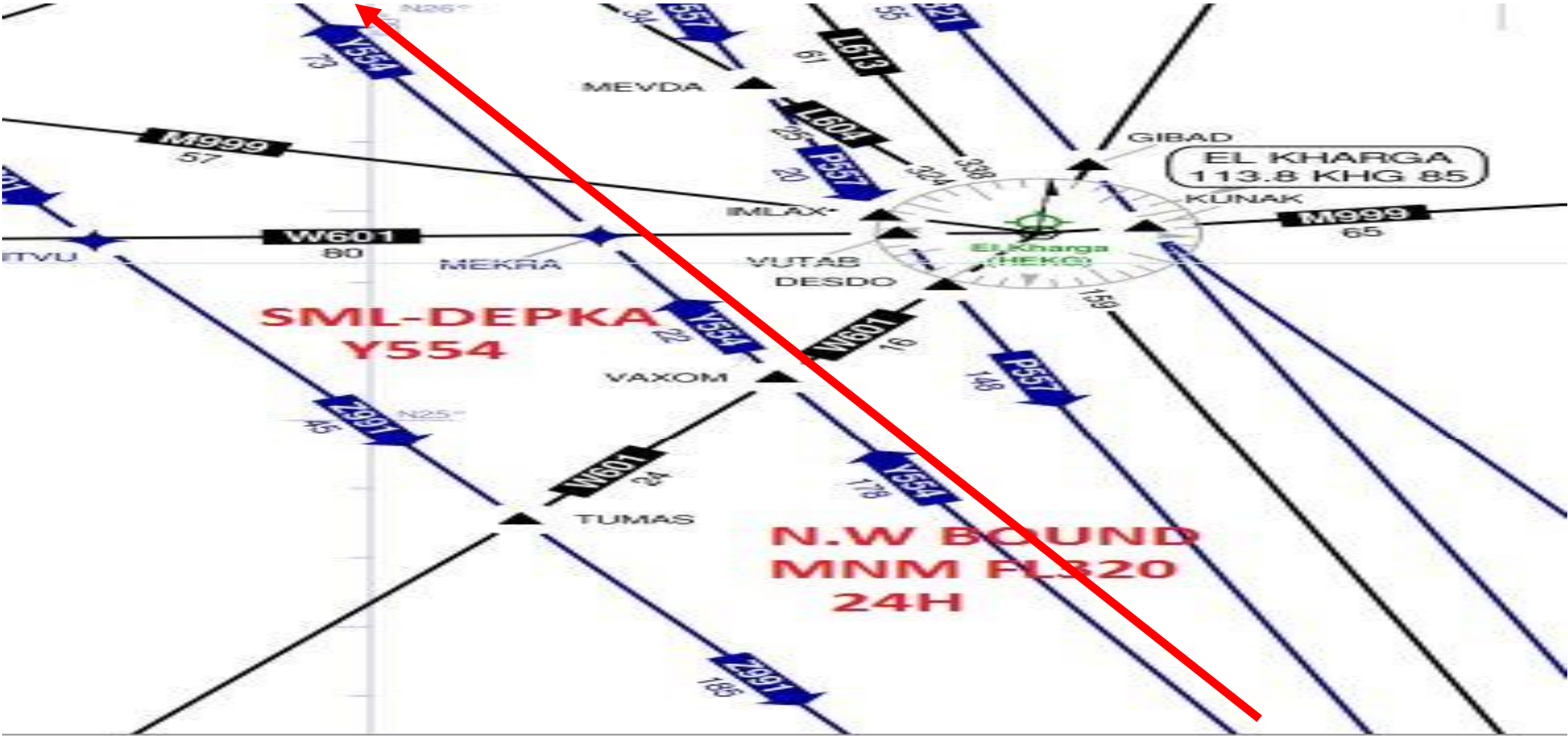


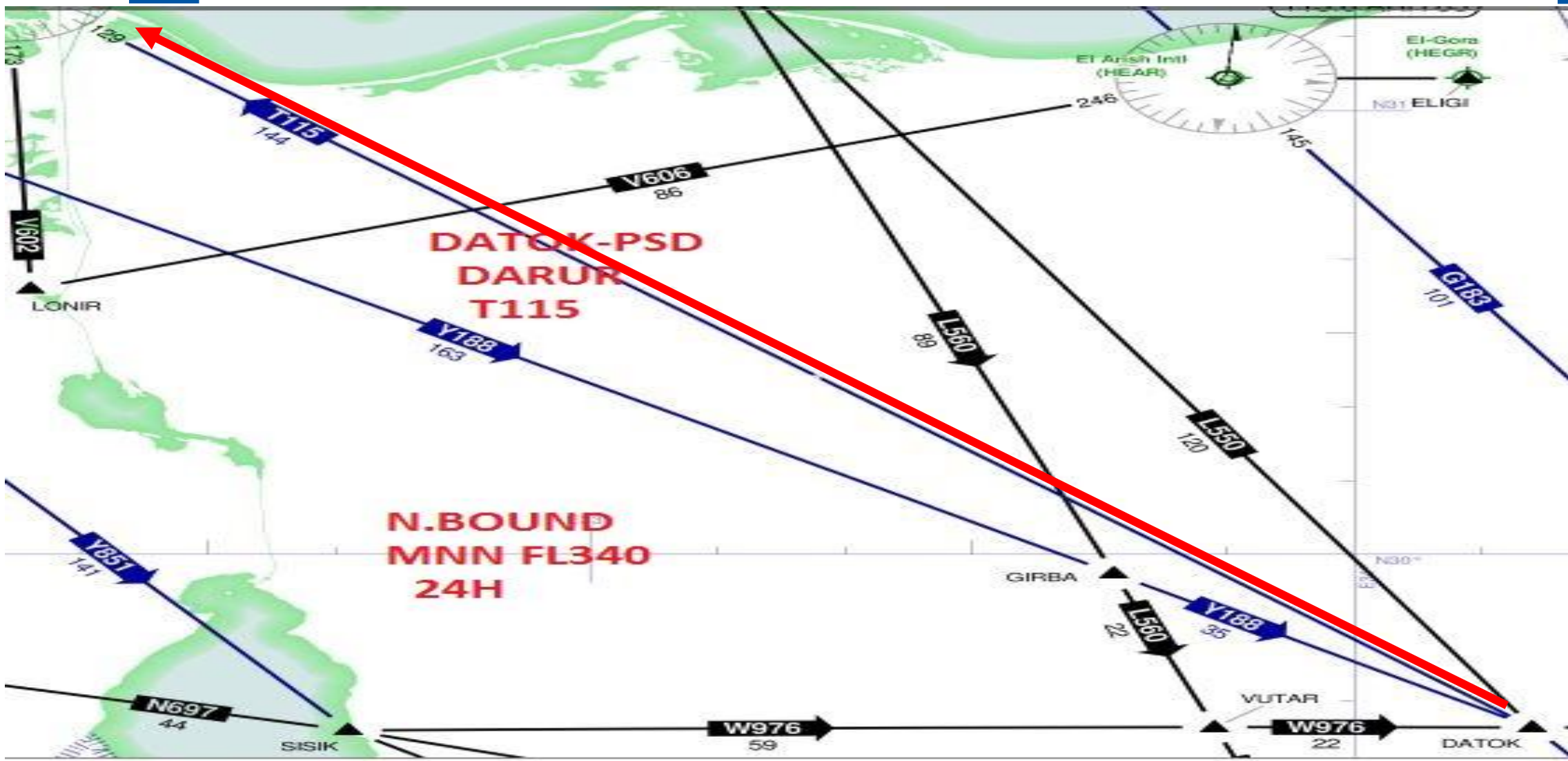


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Thank You