



Ministry of Land, Infrastructure and Transport

Airspace Management in Japan through Civil / Military Cooperation

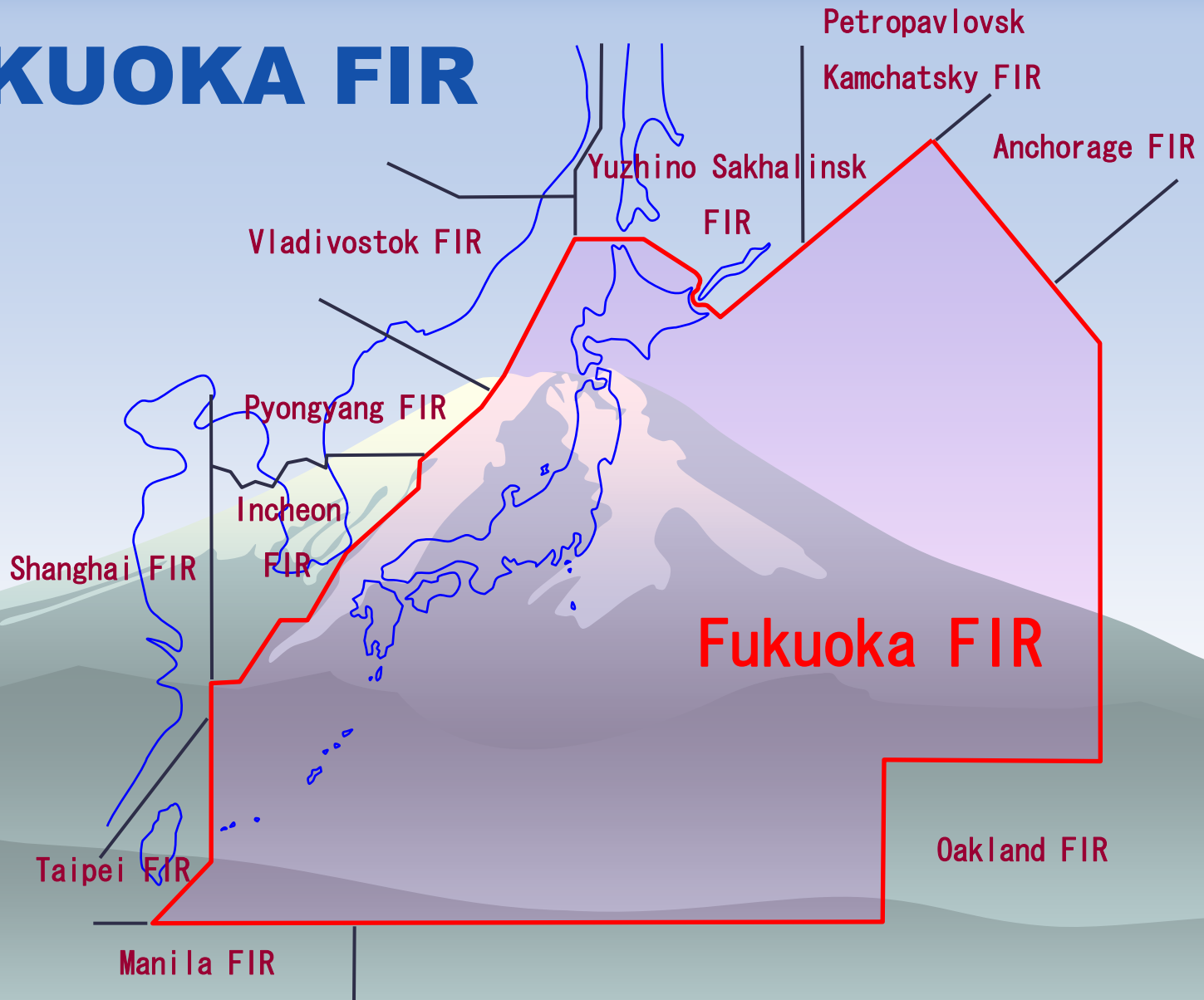
Masao Kume, Japan Civil Aviation Bureau (JCAB)

&

Michael Dolby, United States Forces Japan (USFJ)

20 October 2009

FUKUOKA FIR

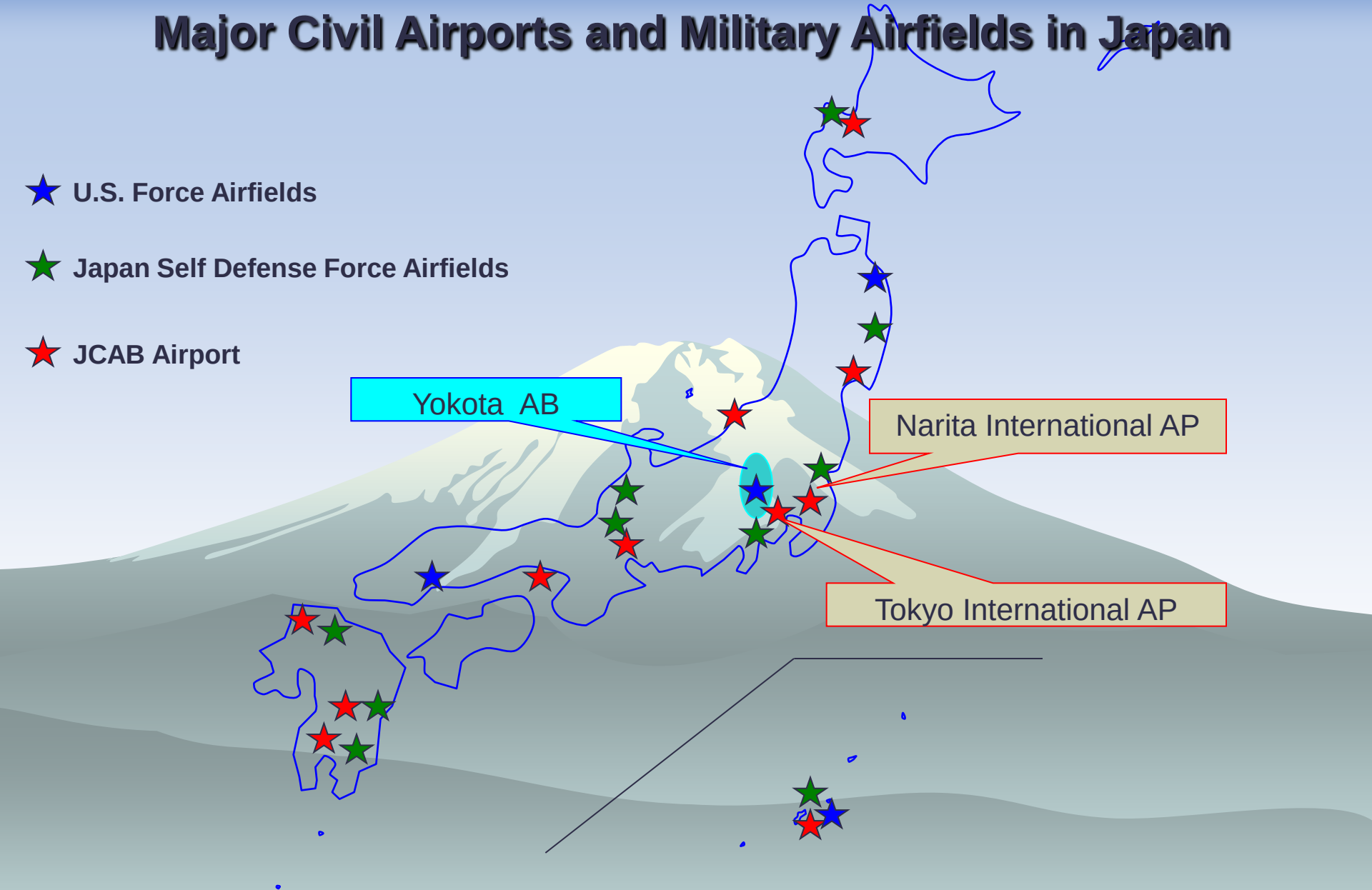


Major Civil Airports and Military Airfields in Japan

★ U.S. Force Airfields

★ Japan Self Defense Force Airfields

★ JCAB Airport



Yokota Airspace Redesign

(a real world example)

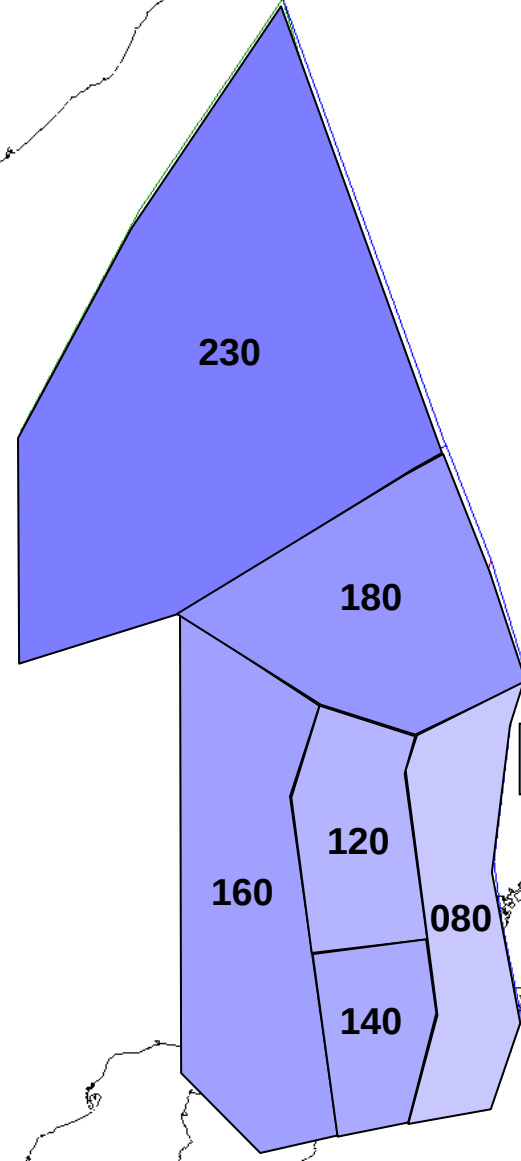
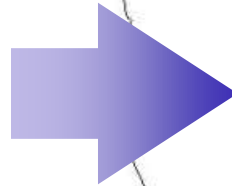
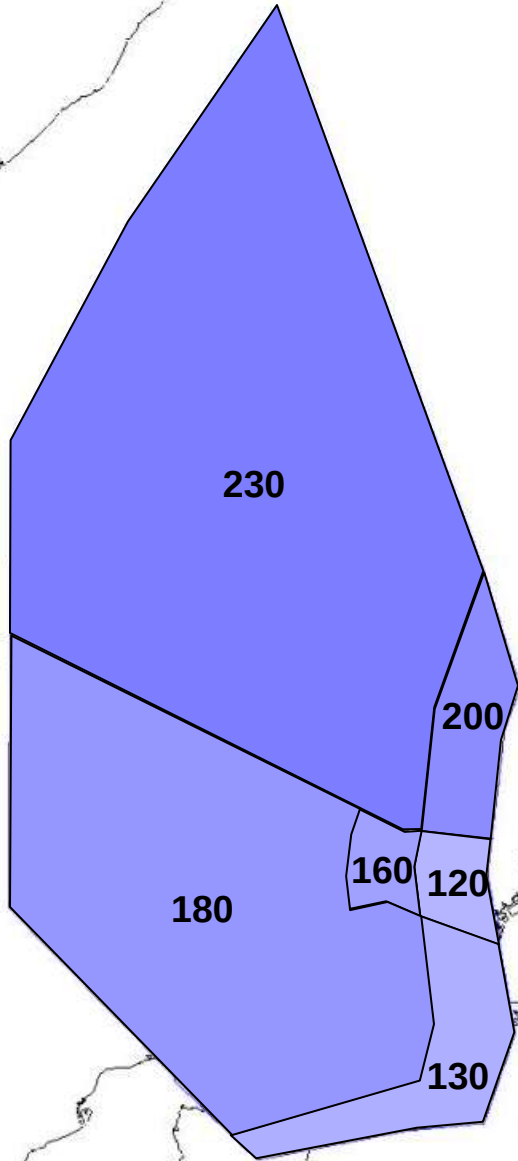
Airspace Redesign – Through civil / military cooperation, the Yokota AB airspace was redesigned resulting in outstanding benefits to the adjacent Tokyo International Airport

- Reducing in fuel, CO2 emissions, time... \$savings..**
- Triple trucks to facilitate the air traffic**

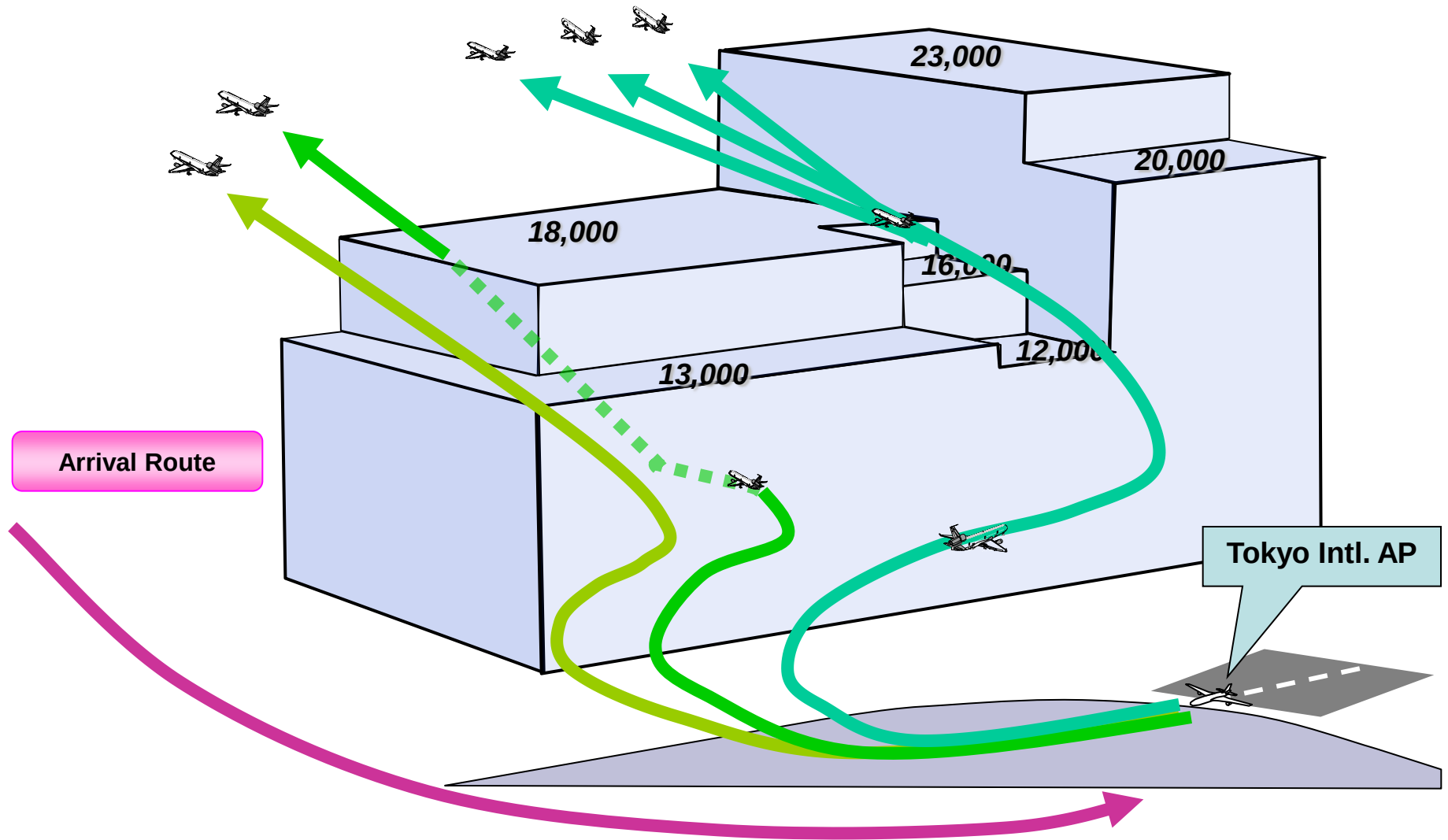
Pre Sep 08

Yokota Approach Area

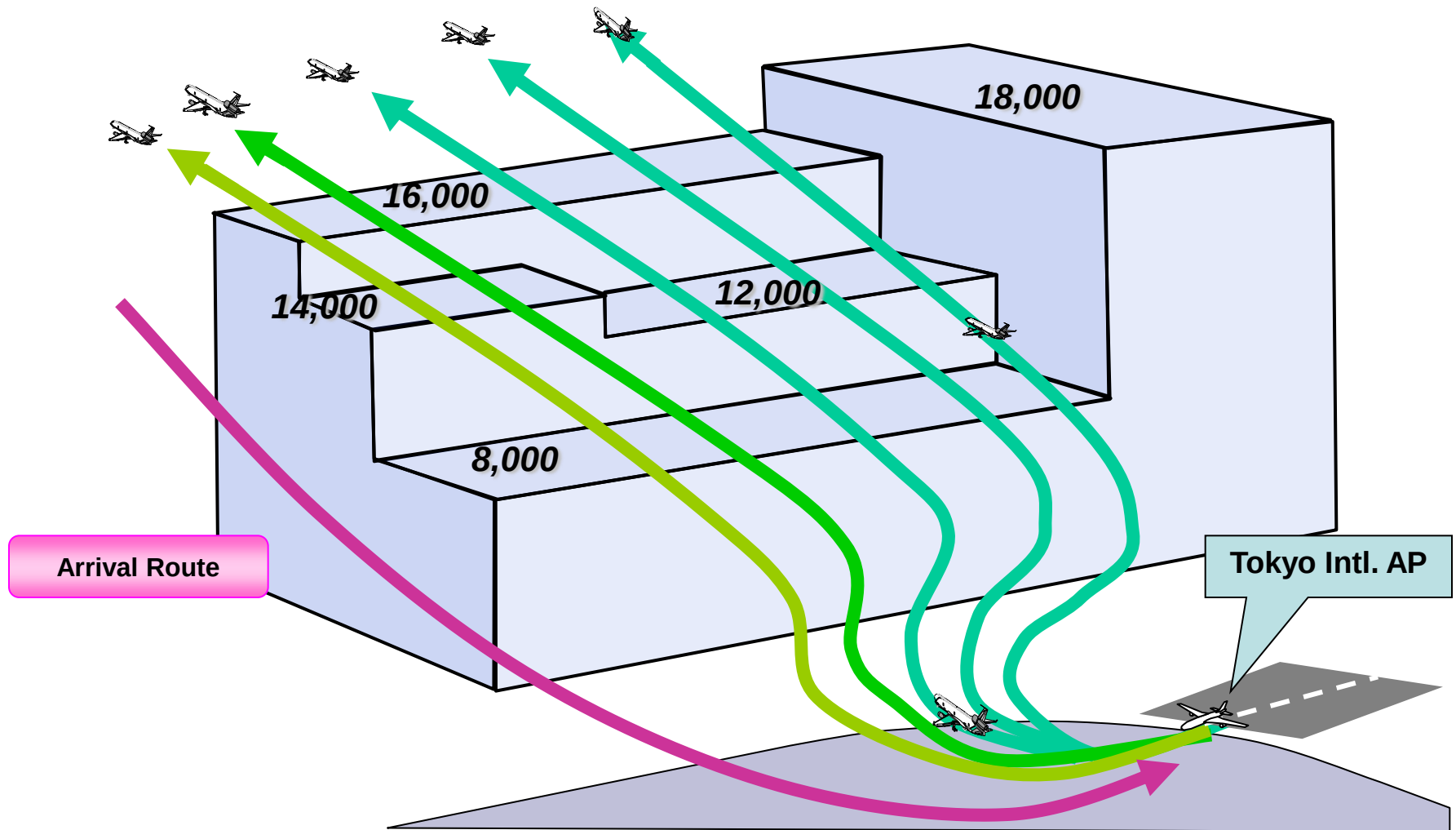
Post Sep 08



Pre Sep 08



Post Sep 08



Airspace Management Changes (Use)

Through civil / military cooperation, we agreed to changes the airspace management as follows:

Training Airspace Use

- Joint Special Use Airspace (JSUA)
- Activated daily based on submitted training schedule
- Release to JCAB when JSUA is not active (no training)
- Priority Use – Mission dependent (Training vs. Real World ... emergencies, search & rescue, medical evacuation...)

Airspace Management Changes

(Training Airspace Scheduling)

Training Airspace Scheduling

- Joint / Bilateral scheduling between JSDF and U.S. Forces units
- No block scheduling...
- Training schedules are shared with JCAB daily
- JCAB retains control of non-scheduled training airspace

Airspace Management Changes

(Training Airspace Control)

Training Airspace Control

- 100 percent radar coverage
- Radio communication
- JCAB near real time awareness of status changes of the training airspace

Airspace Management Changes (Information Sharing)

Information Sharing

- The U.S. liaison position at Air Traffic Management Center (ATMC) in Fukuoka
- Collaborative decision making
- Near real time information sharing on any status changes to JSUA (active, inactive, and released)
- Dissemination of any changes to the daily basis schedule to JCAB

Conclusion

Mutual Understandings (Military – Civilian)

- Safety is always first
 - Airspace is a limited resource
 - The need for more efficient use of the airspace
 - Civil / Military Cooperation is key and essential
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