

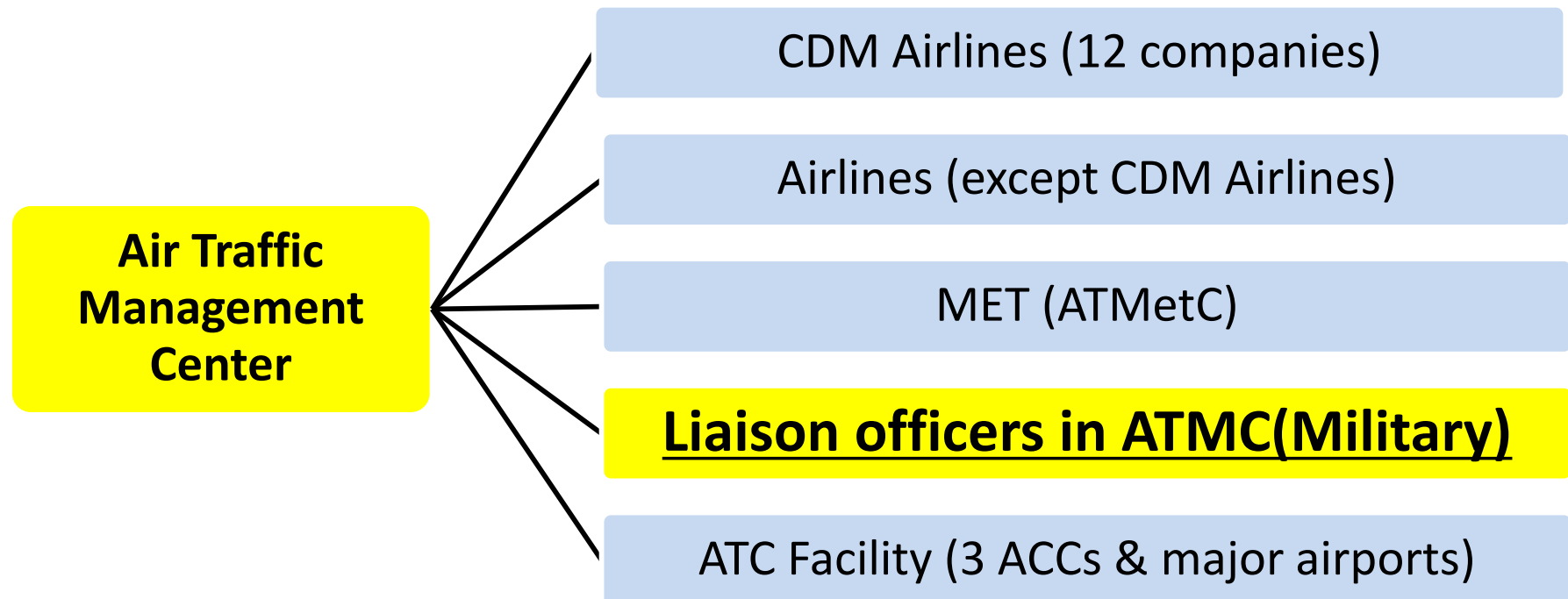
Civil and Military Collaboration in Japan

Air Traffic Management Center
Japan Civil Aviation Bureau

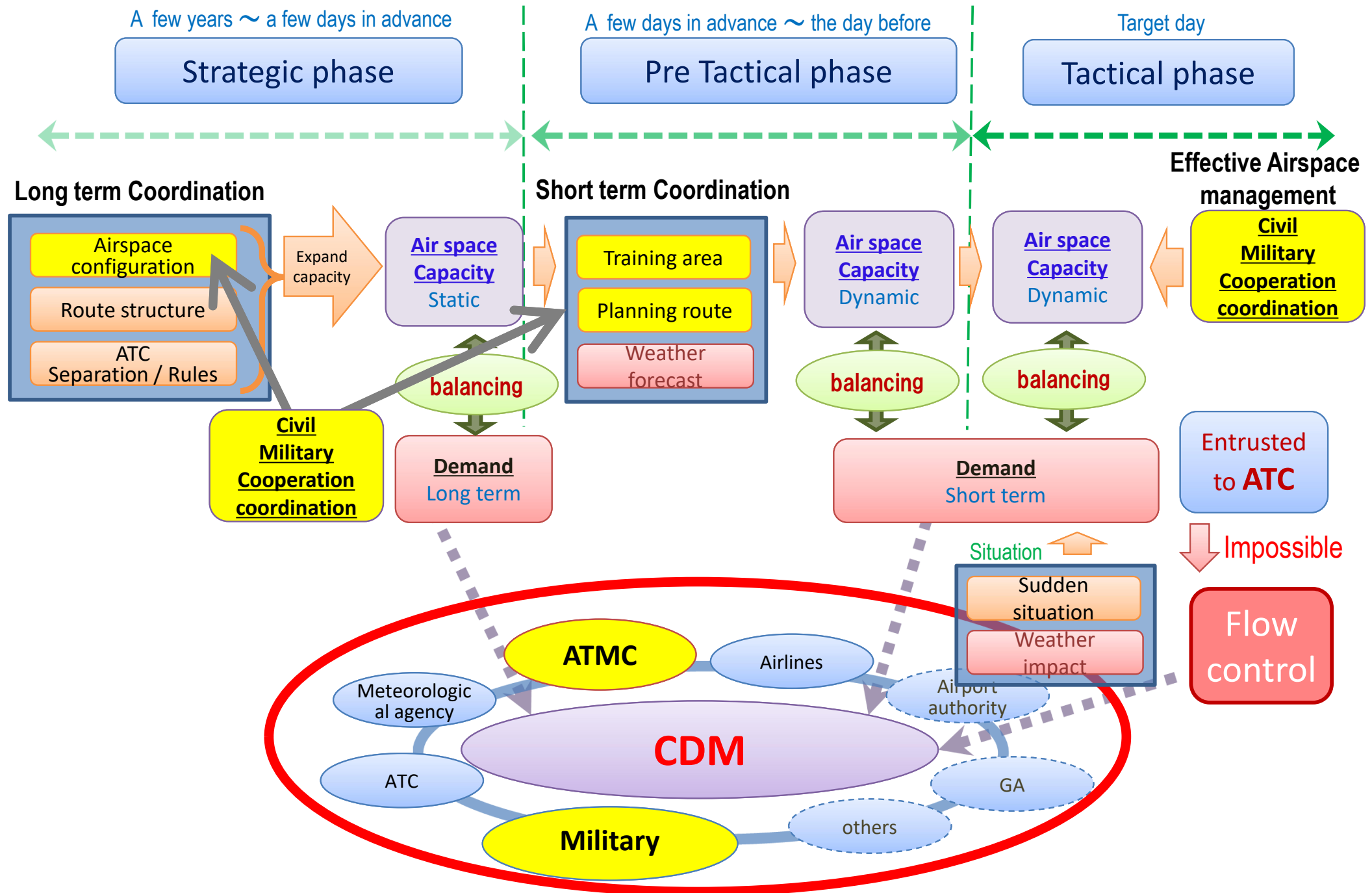
20-21 November 2024

Structure of CDM

Since 2006, Air Traffic Management Center of JCAB has worked with stakeholders to deploy CDM.



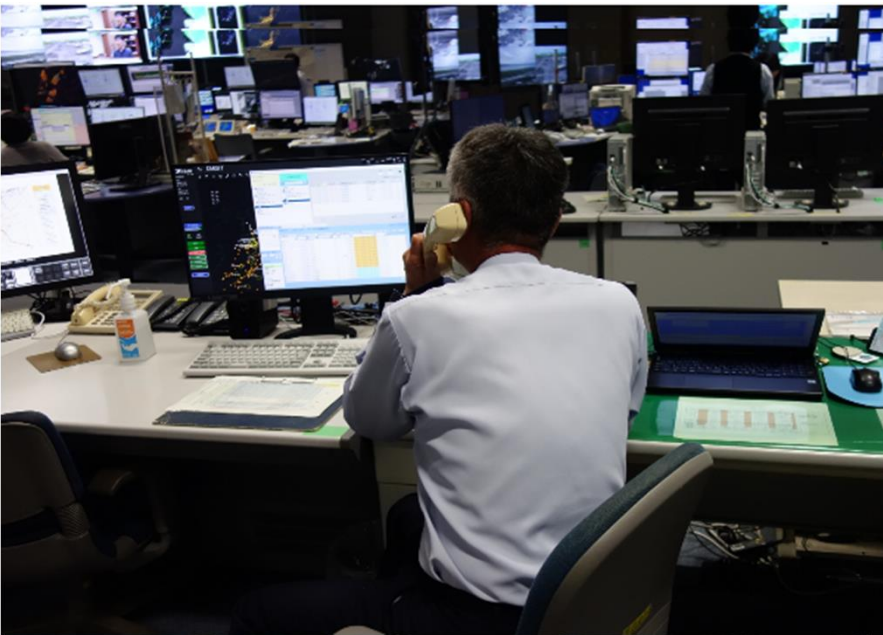
CDM process for Air Traffic Management



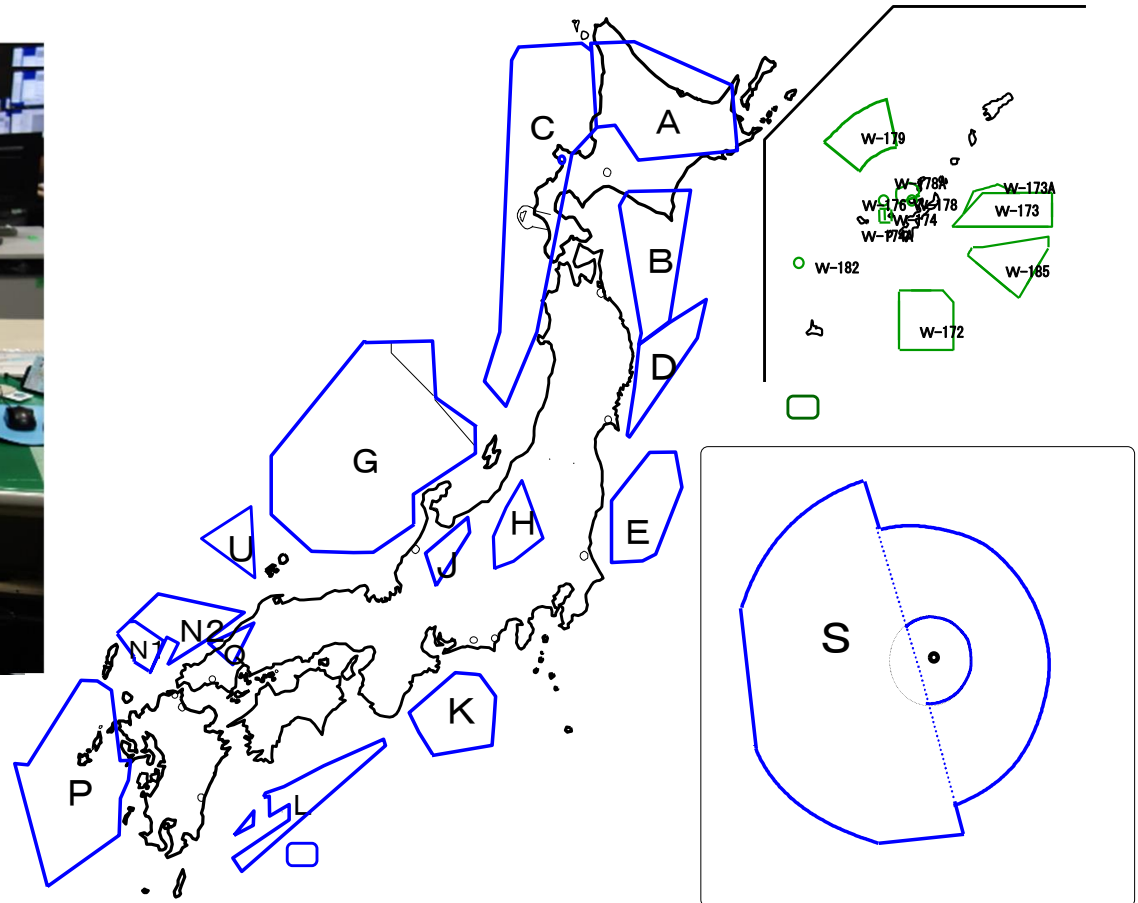
Roles of Military Liaison Officers

- ◆ In collaboration with JCAB, liaison officers coordinate efforts to ensure the optimization of the effective use of military airspace.

High Altitude Training/Testing Areas & Restricted Areas



Military Liaison Desk



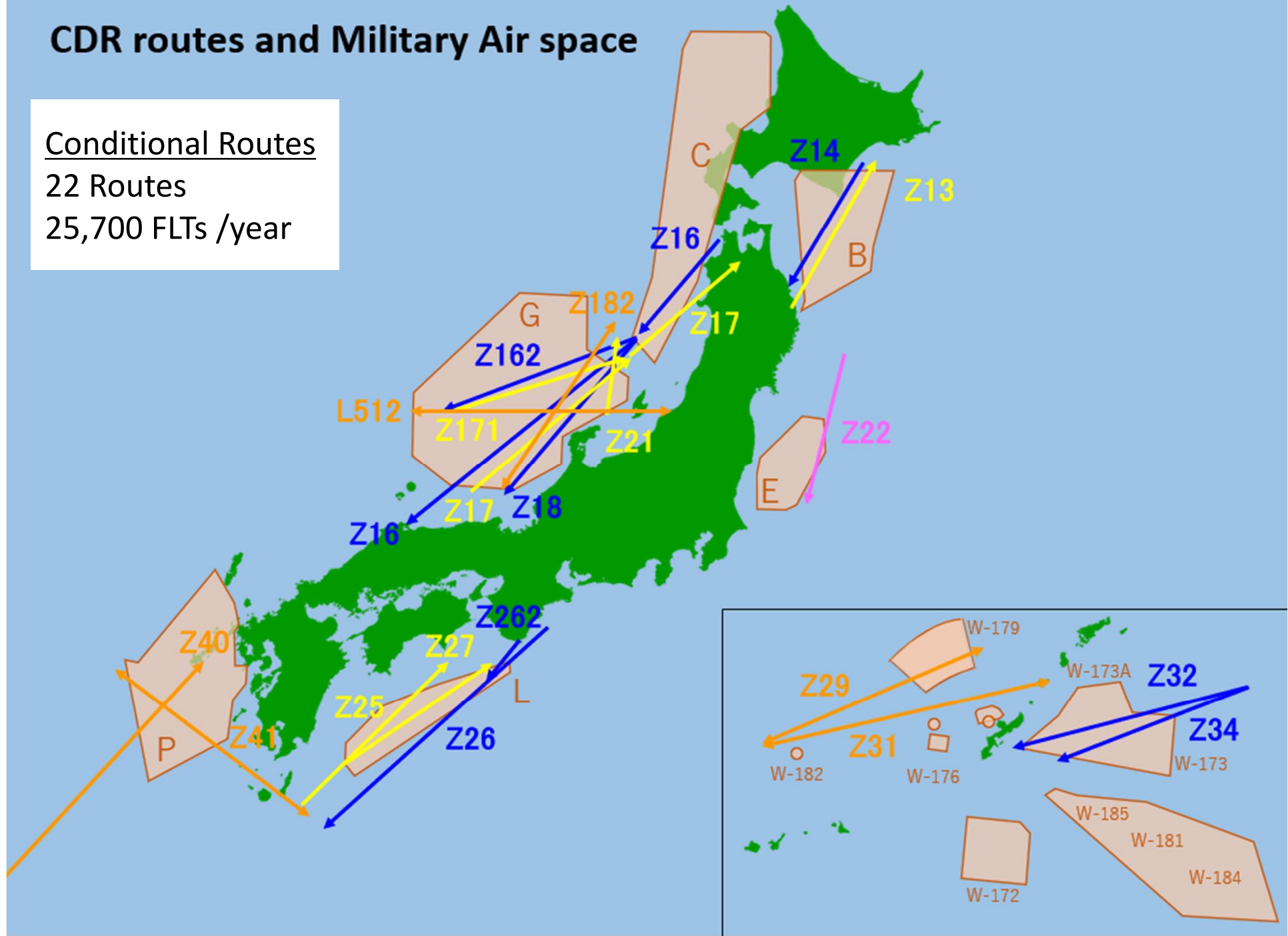
CDRs: Conditional Routes

CDR routes and Military Air space

Conditional Routes

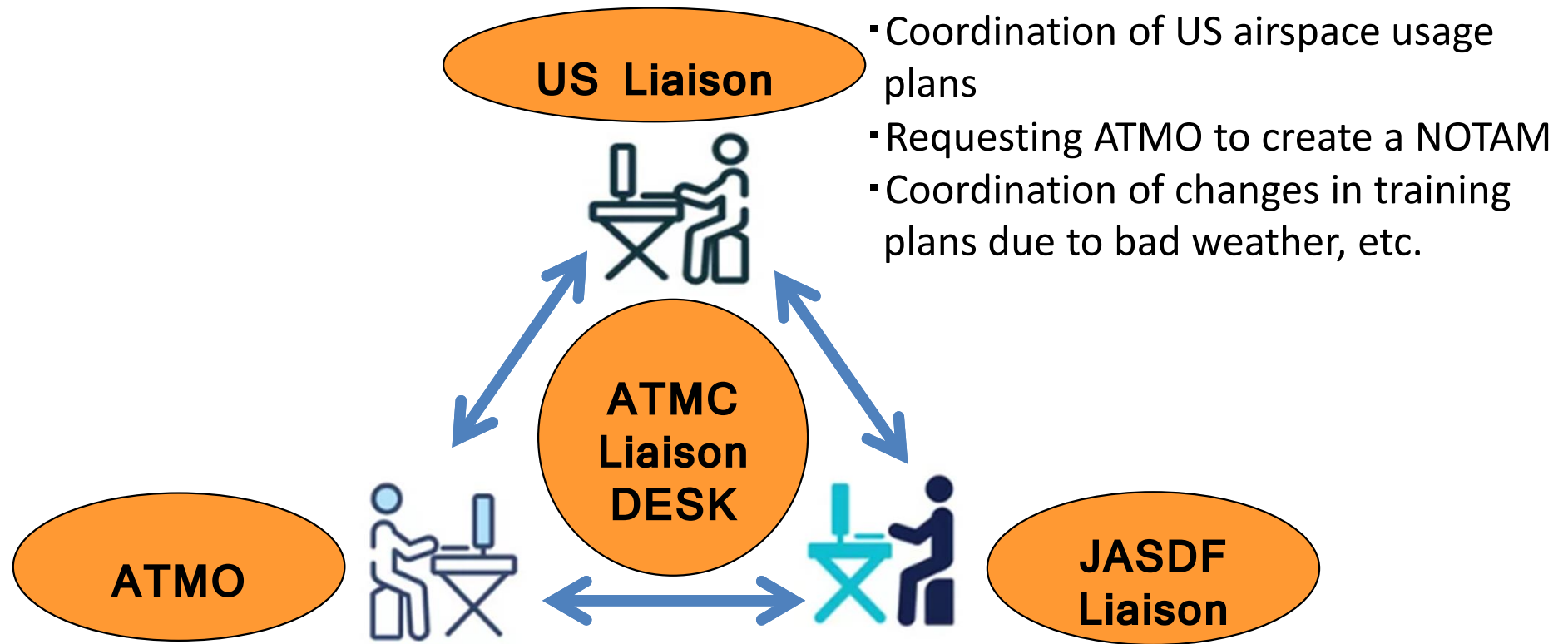
22 Routes

25,700 FLTs /year



Civil and Military Collaboration in airspace management

The objective of ATMC Liaison desk is to achieve the most efficient use of the airspace



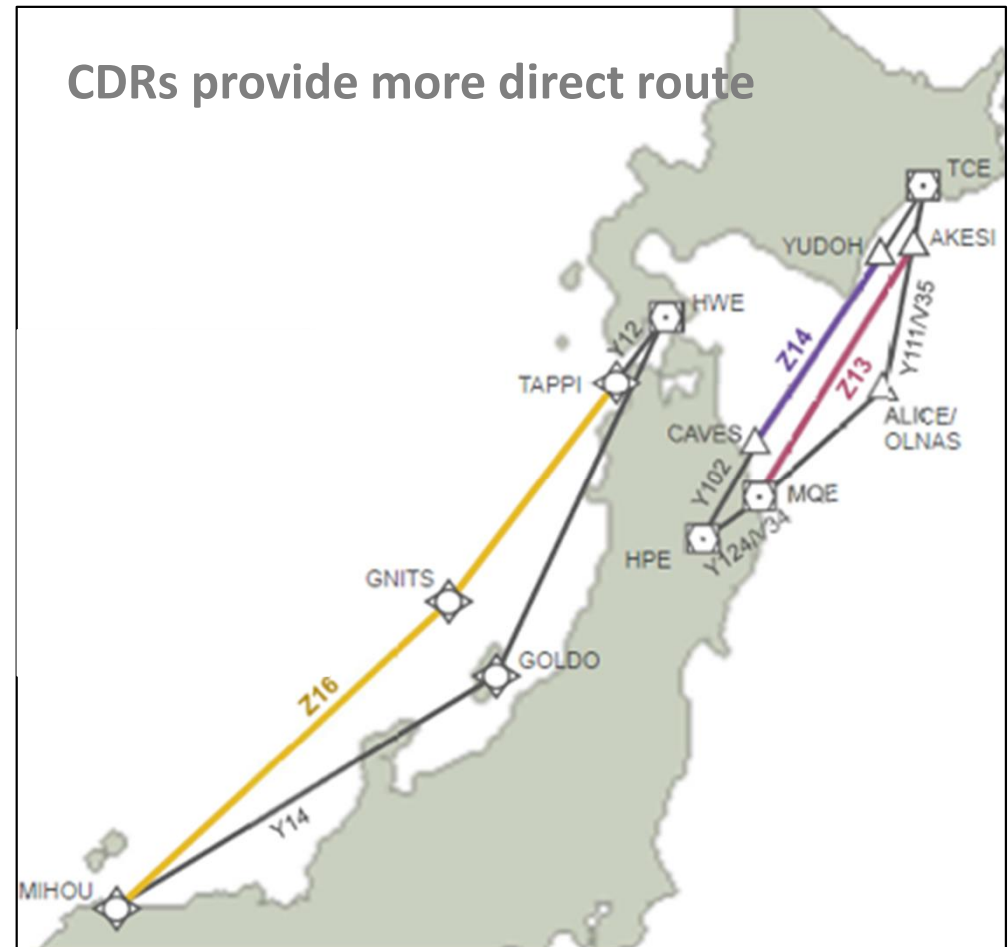
- Management of CDRs
- Coordination of airspace usage by civil stakeholders (ATC or Commercial airlines)
- Information sharing via ATMWS

- Coordination of JASDF airspace usage plans
- Requesting ATMO to create a NOTAM
- Coordination of changes in training plans due to bad weather, etc.

Benefits of CDRs

A total distance saved by flying CDRs is calculated by multiplying the difference between the flight path filed with permanent ATS route and the flight path filed with options of the CDRs by the number of aircraft flown. (Figure 1)

HPE Y124/V34 MQE Z13 AKESI Y111/V35 TCE	-15.3NM
HPE Y124/V34 MQE Y111/V35 TCE	
TCE DCT YUDOH Z14 CAVES Y102 HPE	-21.1NM
TCE Y111/V35 MQE Y124/V34 HPE	
HWE Y12 TAPPI Z16 MIHOU	-22.8NM
HWE Y14 MIHOU	



<Figure 1>

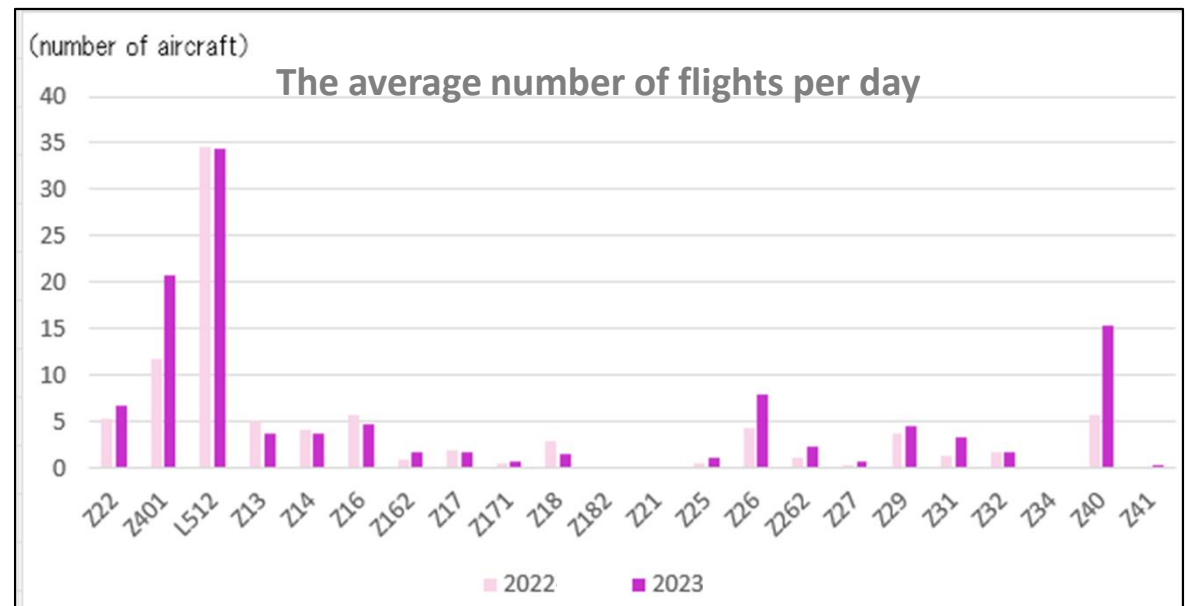
Utilizing CDRs

CDRs availability in 2022 and 2023. (Figure 2)



<Figure 2>

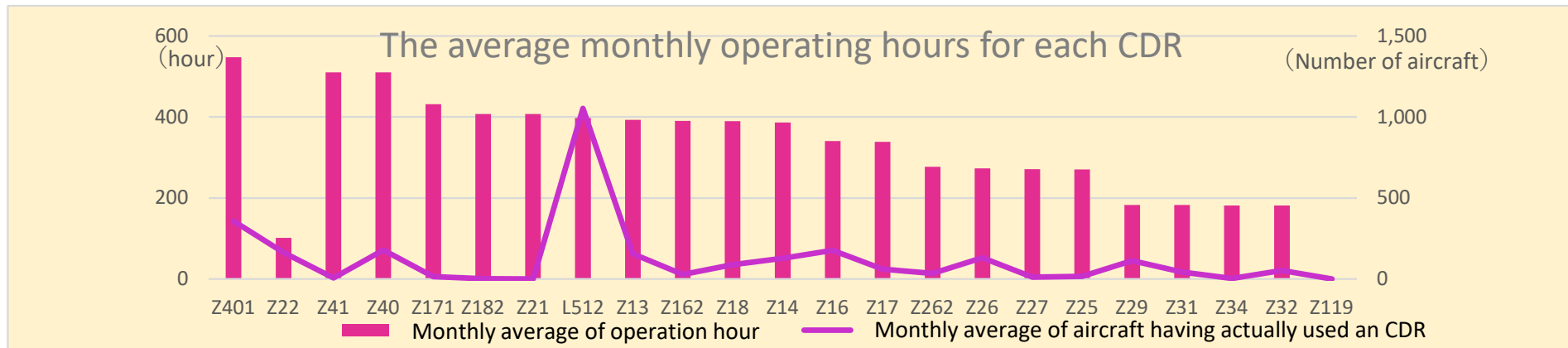
Comparison of the CDRs usage by the number of aircraft flown per day. (Figure 3)



<Figure 3>

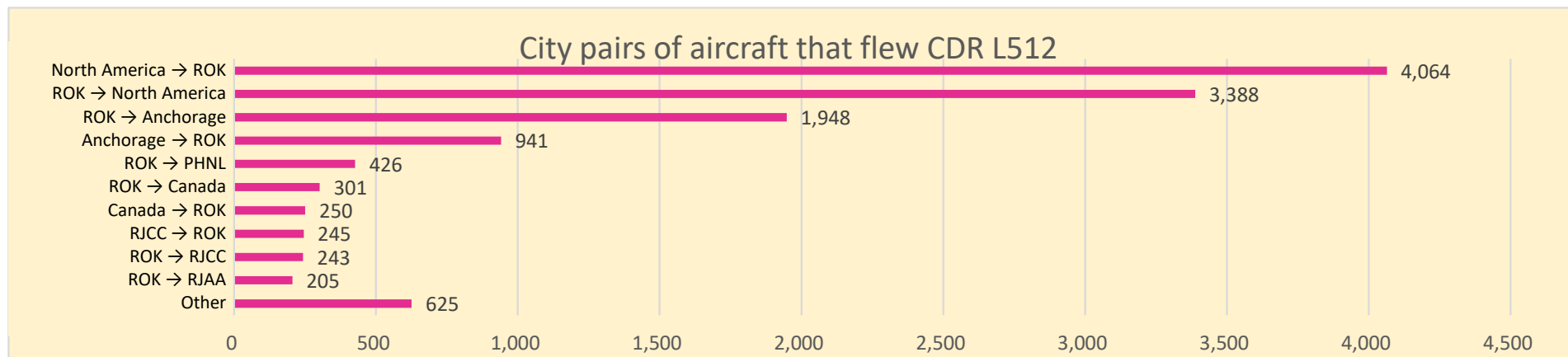
Utilizing CDRs

The bar chart presents the average monthly available hours per CDR. The line graph shows the number of aircraft actually flown CDR.



<Figure 4>

Figure 4 shows CDR L512 has the highest number of aircraft usage. Figure 5 lists top 10 most flown segments in CDR L512.



<Figure 5>

Thank You