

Update Japan' s Airspace Redesign Plan

Presented to

THE 49th MEETING OF INFORMAL PACIFIC ATC
CO-ORDINATING GROUP (IPACG/49)

The Air Traffic Control Division JCAB

Date: Dec.2024

Overview

As scheduled, the domestic airspace in Japan will be gradually separated into upper and lower airspace beginning in 2020, and the reorganization is scheduled to be completed by March 2025.

【ACC:area control center】

We improve to divide the domestic controlled airspace (ACC) into upper and lower parts.

High altitude sector.....for cruise aircraft

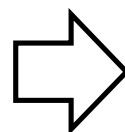
Low altitude sector.....for short-range flight, climbing / descending aircraft around the airport

Traffic volumes have now recovered to pre-COVID
19 levels and are expected to increase further.

Purpose

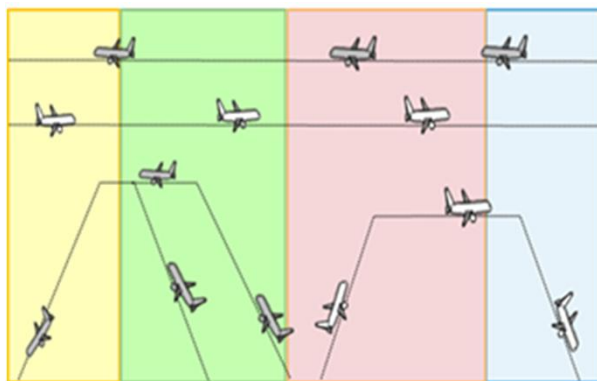
High sector mainly for cruise phase.

Low sector for departure / arrival and short distance flights.



Improving control efficiency will lead to increase the capacity.

2020



4 ACCs

Blue

Red

Green

Yellow

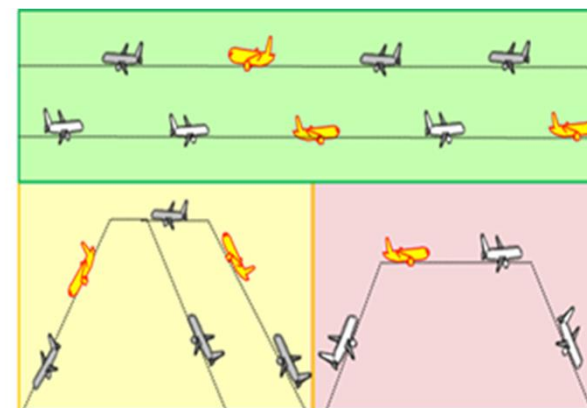
Sapporo ACC

Tokyo ACC

Fukuoka ACC

Kobe ACC

Scheduled for 2025



FL335

3 ACCs

Red

Green

Yellow

Tokyo ACC

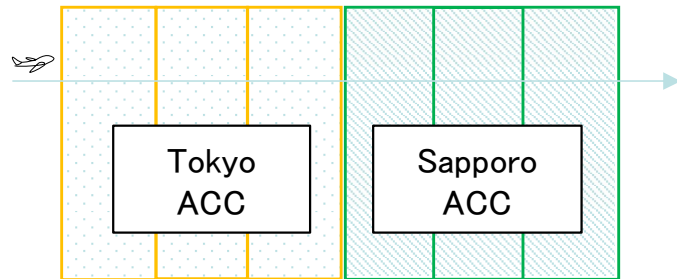
Fukuoka UAC

Kobe ACC

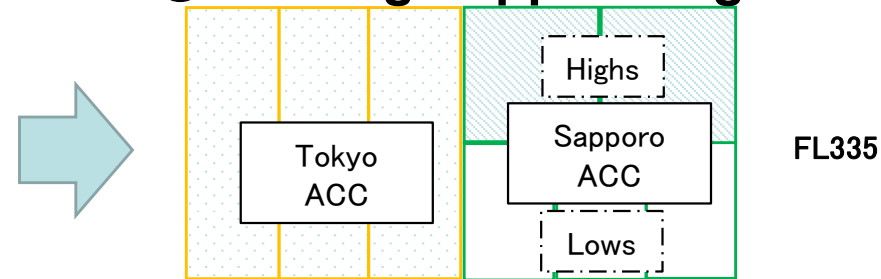
Progress of restructuring for East Japan

Tokyo will be Low ACC, Fukuoka will be High ACC(UAC).

①Start

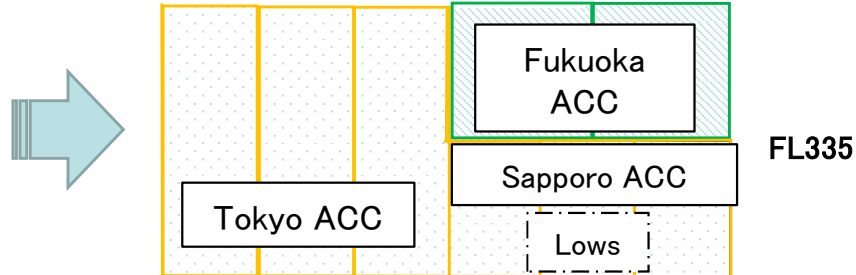


②Dividing Sapporo High & Low



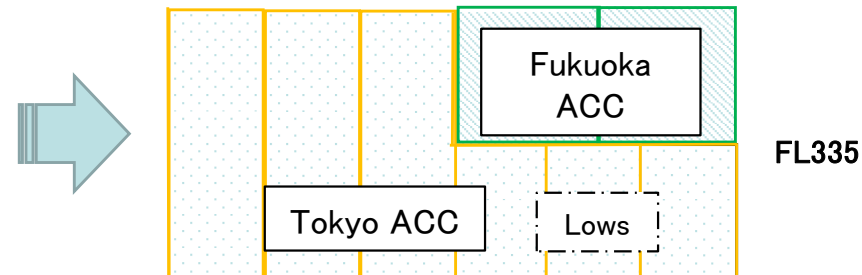
Mar. 2024

③Transfer Sapporo Highs to Fukuoka



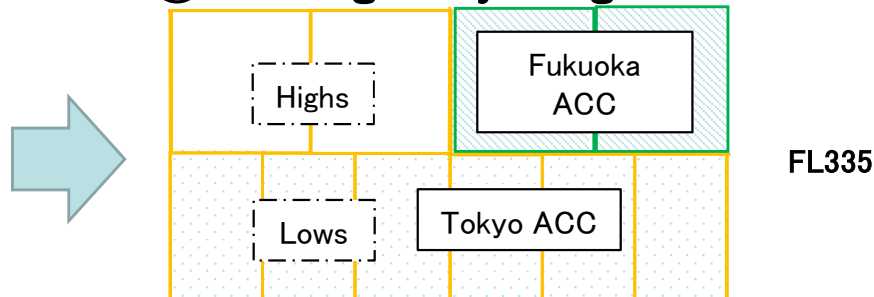
Jun. 2024

④Transfer Sapporo Lows to Tokyo



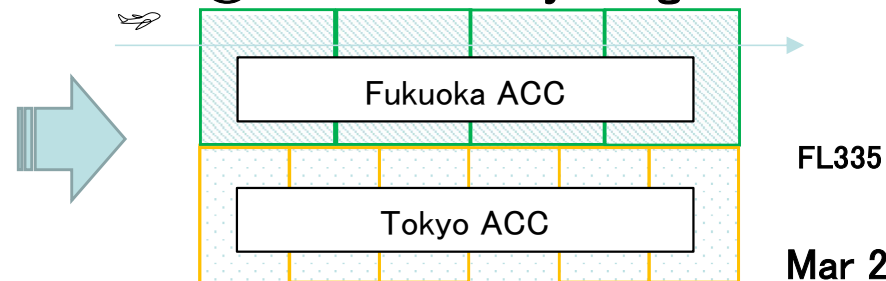
Oct. 2024

⑤Dividing Tokyo High & Low



Nov. 2024

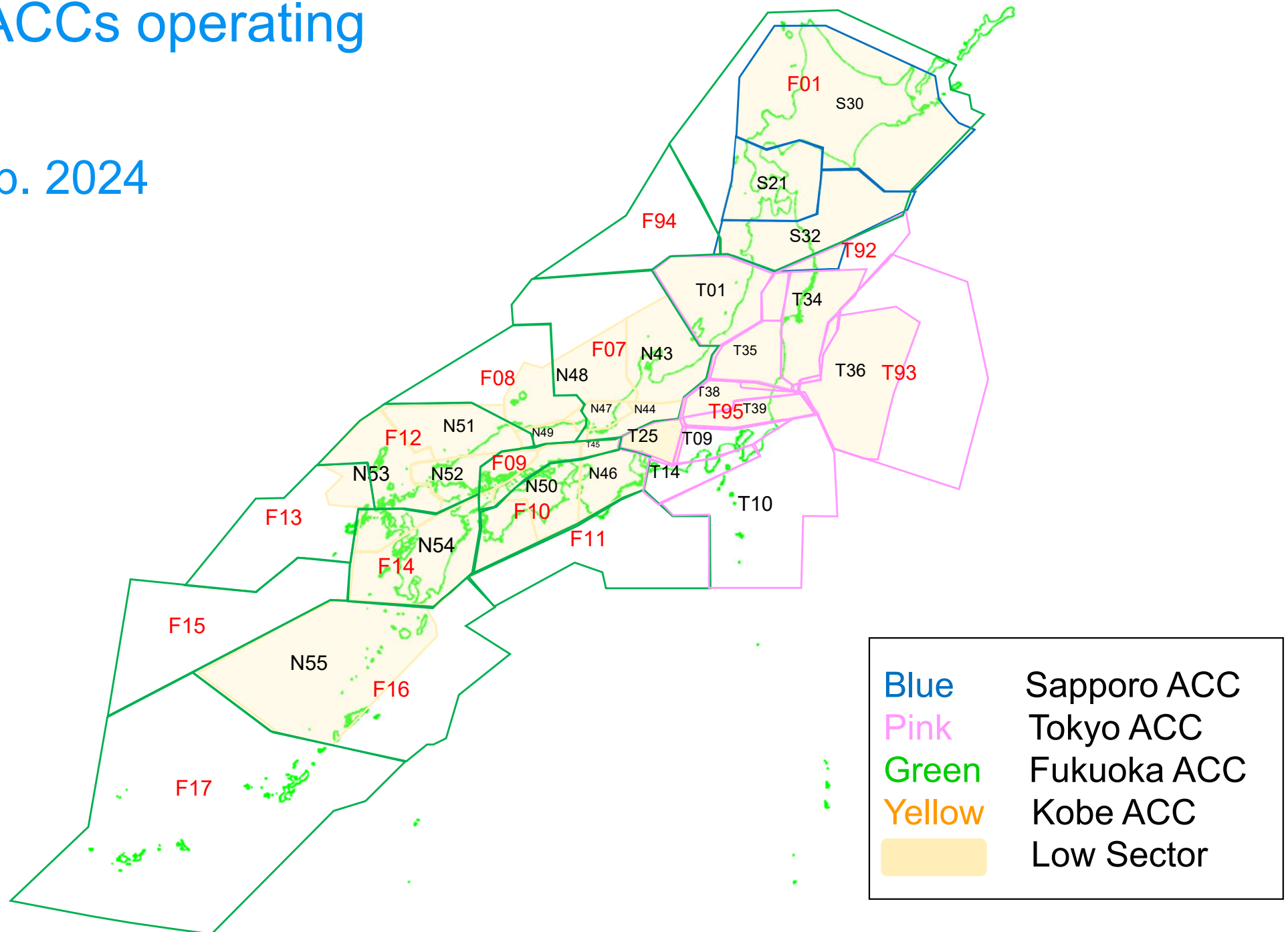
⑥Transfer Tokyo Highs to Fukuoka



Mar 2025

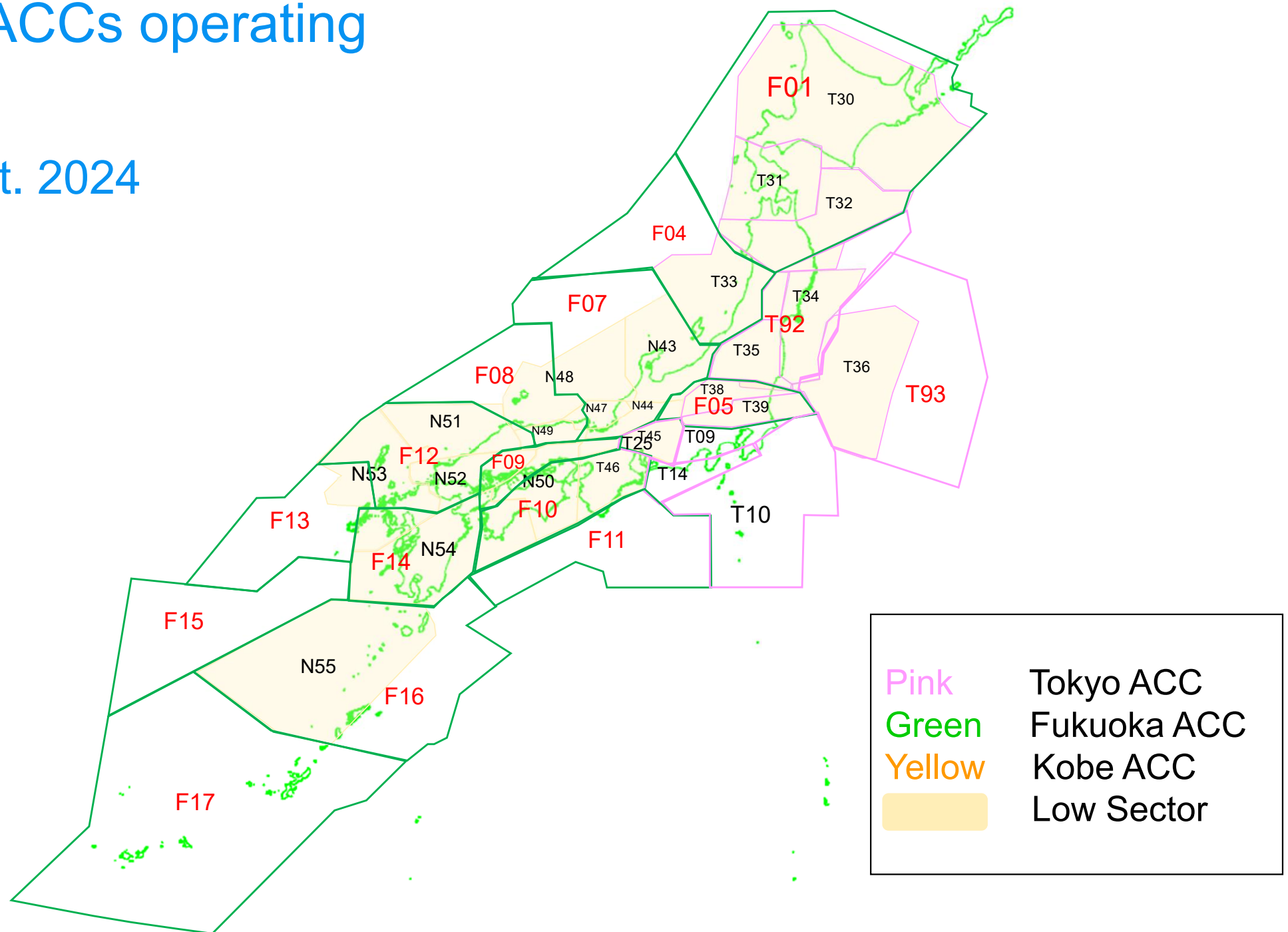
4 ACCs operating

Sep. 2024



3 ACCs operating

Oct. 2024



Final form of the domestic sector : 48-Three Dimensional Sectors

1. Fukuoka ACC (High Altitude Airspace + Oceanic Airspace)
2. Tokyo ACC (Eastern Japan below FL335)
3. Kobe ACC (Western Japan below FL335)

Fukuoka ACC



Kobe ACC



Tokyo ACC

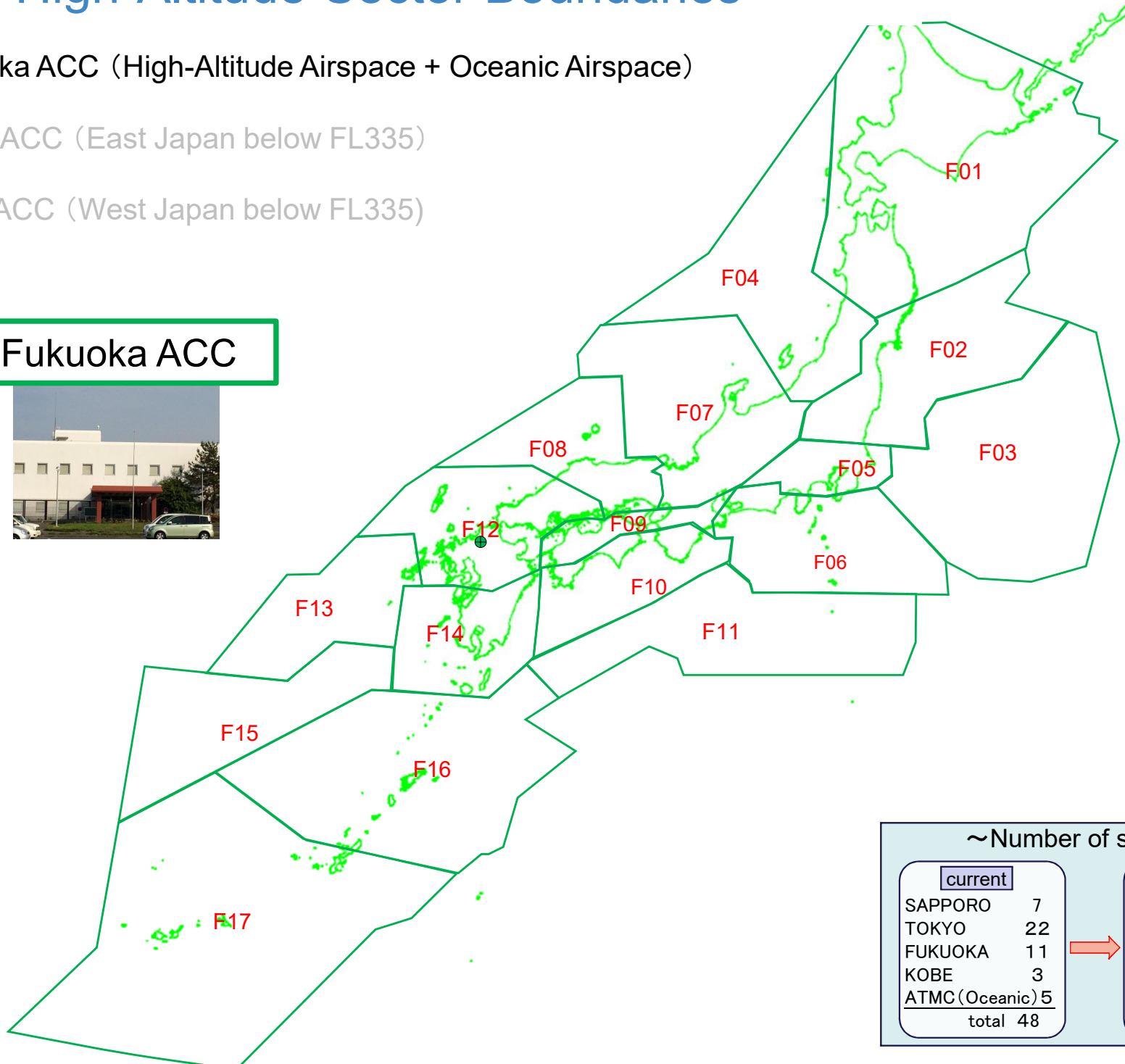


~Number of sectors~			
current		CY 2025	
SAPPORO	7	FUKUOKA	22
TOKYO	22	(include Oceanic 5)	
FUKUOKA	11	TOKYO	15
KOBE	3	KOBE	11
ATMC(Oceanic)	5		
total	48	total	48

High-Altitude Sector Boundaries

1. Fukuoka ACC (High-Altitude Airspace + Oceanic Airspace)
2. Tokyo ACC (East Japan below FL335)
3. Kobe ACC (West Japan below FL335)

Fukuoka ACC

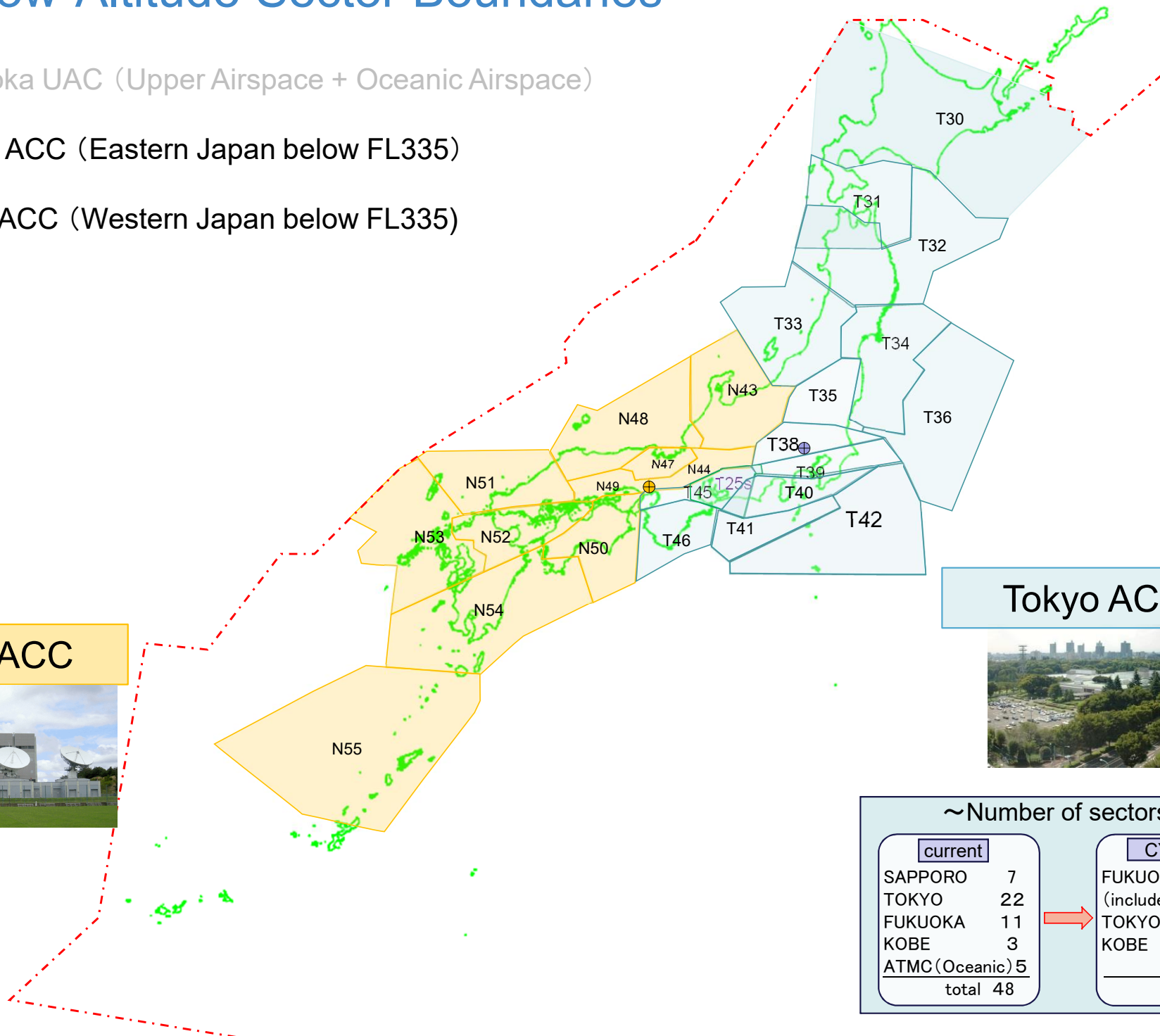


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FUKUOKA	11	TOKYO	15
KOBE	3	KOBE	11
ATMC(Oceanic) 5			
total	48	total	48

Low-Altitude Sector Boundaries

1. Fukuoka UAC (Upper Airspace + Oceanic Airspace)
2. Tokyo ACC (Eastern Japan below FL335)
3. Kobe ACC (Western Japan below FL335)



Kobe ACC



Tokyo ACC



~Number of sectors~

current		CY 2025
SAPPORO	7	FUKUOKA 22
TOKYO	22	(include Oceanic 5)
FUKUOKA	11	TOKYO 15
KOBE	3	KOBE 11
ATMC(Oceanic) 5		
total 48		total 48



Thank you.

Any questions?