

# Overview of Koku-Jieitai FY2024



*To the Sky and Beyond*



# Koku-Jieitai; The Only Organization to defend Sky and Space

## Domains that Koku-Jieitai defend



Territorial Land, Sea and **Airspace**



Space, Cyber and Electromagnetic Domain

## Major Units of Koku-Jieitai



Fighter Units



Aircraft Control and Warning Units



Surface to Air Guided Missile Units



Space Units



Air Transport Units



Air Rescue Units

## Japan-U.S. Alliance



## Defense Cooperation and Exchanges



## Personnel of Koku-Jieitai



1954

- Establishment of Koku-Jieitai



Chief of Staff Uemura's remarks in opening ceremony at Air Staff Office

1958

- Starting of scrambling against airspace violation
- First scramble



Personnel in scramble training in air defense exercise

- Reformation of Air Command into Air Defense Command, the formation of Northern / Central Air Defense Force



Establishment Ceremony for Central Air Defense Force

1961

- The formation of Western Air Defense Force (Kasuga)



Formation completion ceremony for Western Air Defense Force

1973

- The formation of South Western Composite Air Division (Naha)



Formation completion ceremony for South Western Composite Air Division

1978

- The First-ever Japan-U.S. joint training "Cope North" (Misawa)



70<sup>th</sup>  
history

Okinawa's return to Japan from the US (1972)

1955

- Five T-33 pilot students graduation
- The birth of Japan's first 5 jet fighter pilots (Tsuiki)

1959

- Disaster relief deployment in response to the Ise Bay Typhoon

1964

- Five F-86F Blue Impulse skywrote the Olympic logo at the opening ceremony of the Tokyo Olympic Games



The Olympic symbol painted in the sky

Mid-air collision at Shizukuishi (1971)

1974

- Three female personnel commissioned



Female personnel greeting Chief of Staff, Koku-Jieitai

MiG-25 Soviet defector incident (1976)

1988

- The first overseas training (C-130H) 「Airlift Rodeo」 (Pope Army Airfield)



Showa

1989

- Establishment of Air Support Command, Air Training Command and Air Development and Test Command



First Commander of Air Support Command receiving the honor

1997

- [The first female SDF personnel received the Wing Mark](#)



Badge (Pilot)

2001

- Activities based on Anti-Terrorism Special Measures Law (until Nov 2007)



Airlift activities based on the Anti-Terrorism Law Measures Act

2004

- Tactical Airlift Wing for Humanitarian Reconstruction Assistance in Iraq departing for Kuwait
- Transportation of 10 nationals from Iraq to Kuwait as [the first transportation of Japanese nationals overseas](#)
- Ceremony for the 50th anniversary of Koku-Jieitai (Iruma)



C-130H sent off by the staff and family members



Logo for the 50th anniversary of Koku-Jieitai

The end of the Cold War (1989)

The Great Hanshin earthquake (1995)

The September 11 terror attacks (2001)

2011 Great East Japan Earthquake

Annexation of Crimea (2014)

1992

- [First participation to international Peace keeping operation\(PKO\) in Cambodia\(until Sep1993\)](#)



The organization ceremony of the contingent to Cambodia

1999

- [First overseas for fighter jets \(F-15、E-2C\) "Cope North GUAM"](#)



2003

- [Special Measures concerning Humanitarian Relief and Reconstruction work in Iraq \(until Feb 2009\)](#)



SDF members receiving encouragement from former Prime Minister Koizumi (24 Dec2003 in Komaki)

2012

- The HQs of Air Defense Command relocated to Yokota Air Base



Operational launch event of HQs Air Defense Command

2016

- The UK-Japan exercise "Guardian North 16"
- [The first exercise with non-U.S. partners in](#)



The first UK-Japan joint exercise

2018

- [The first female fighter pilot in Koku-Jieitai](#) (Nyutabaru)



The first female fighter pilot

2021

- Support for Tokyo Olympic and Paralympic Games 2020



Olympic opening ceremony

Exhibition flight of T-4 Blue Impulse

2023

- The new formation of JSDF Iruma Hospital (Iruma)
- [The first deployment training overseas by F-35A of Koku-Jieitai](#) (the U.S. (Guam) • Australia)



Landed at the Tyndall AFB



Greets by the squadron leader, RAAF

Kumamoto Earthquake (2016)

2017

- The new formation of South Western Air Defense Force



The organization ceremony of South Western Air Defense Force

The spread of COVID-19 infection (2020)

2020

- Preventing the spread of new COVID-19 infections, disaster dispatch for strengthening border controls
- The new formation of [Space Operations SQ](#) (Fuchu)



The new formation event of Space Operations SQ

Russian military invasion to Ukraine (2022)

2022

- The first [dispatch of fighter aircraft to Southeast Asia](#) since post-war (F-15, the Philippines)
- The new formation of [Tactical Reconnaissance Group \(Global Hawk RQ-4B\)](#) (Misawa)



Dispatched F-15



Global Hawk

Noto Peninsula Earthquake (2024)

2024

- 70th anniversary of the establishment



Logo for the 70th anniversary of the establishment of Koku-Jieitai



# Catchphrase & Logo for the 70th Anniversary of Koku-Jieitai



## 大空とその先へ ~To the Sky and Beyond~

- Background image of logo is “Space” and the lines represent cyber, electromagnetic waves and their connection with assets.
- The map of Japan indicates the Koku-Jieitai’s determination to defend Japan by showing the four-major defense forces’ location by blue dots.
- The letter of “70”, 0 represents the expansion of the mission area into space by the earth, the satellites surrounding the moon, and the stars in the sky.

- Catchphrase images the evolution into Japan Air and Space Self-Defense Force as well as the fresh and challenging spirit of Koku-Jieitai.
- “Sky” expresses the dreams, hopes, challenges that humans have for sky, and “Beyond” expresses our determination to continue challenges.
- “To the Sky and Beyond” indicates the determination to expand our mission area from air to space.



# Contents

## I Security Environment Surrounding Japan

## II Air Defense Capability & Missions of Koku-Jieitai

## III Way ahead of future posture of Koku-Jieitai

## IV Other Topics



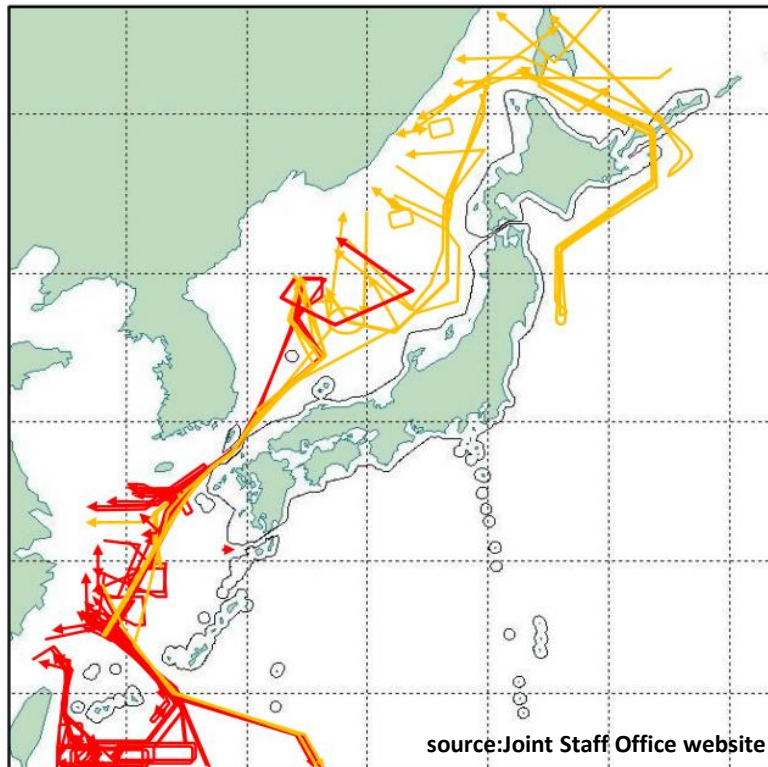


# I Security Environment Surrounding Japan

## 1 Features of Current Security Environment

## 2 Sky and Space situation in the vicinity of Japan

Example Flight Patterns of Russian and Chinese Aircraft to Which Scrambles Responded (FY2023)



→ : Chinese → : Russian



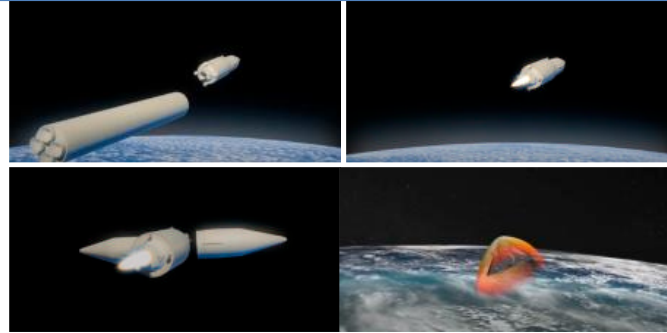


# 1-1 Features of Current Security Environment

- Unilateral changes to the status quo by force or such attempts are serious challenges to the free and open **international order based on the rule of law**, and the international community has entered **the greatest postwar trial yet**, and has entered a new era of crisis.
- Rapid development in science and technology are fundamentally changing the paradigm of security and the development of cutting-edge technology that becomes **“a game changer”** has brought about **fundamental changes to the way military is organized as well as the way warfare is prosecuted**.
- There are also global security issues such as the intensification of risks in the cyber domain, the development of information warfare including dissemination of disinformation, and climate change.
- **The target of security has expanded to include the economic field** due to the vulnerability of supply chains and the growing threat to critical infrastructures.



Tactical High Power Operational Responder “THOR”  
[USAF]



Hypersonic glide vehicle “Avangard”  
[Russia]



sea-based hypersonic cruise missile “Zircon”  
[Russia]



Example of information warfare  
[Ukraine]



source : Website of the Pakistan Army  
Pakistan soldiers conducting a rescue operation

# 1-2 Features of Current Security Environment

## Demonstration of force by China and Russia



Joint Navigation



Joint Flight

## Russia continuing active actions

Deployed new equipment also in the Far East region



Sterekushchy II-class frigates  
Assigned to the Pacific Fleet in 2020



Ground-to-ship missile system  
Newly deployed to Paramushir Island of Chishima Islands in 2022

## North Korea's Nuclear and Missile Development

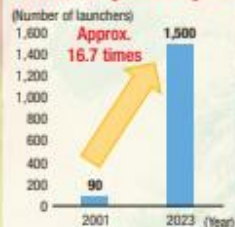
- First nuclear test in 2006 and a total of six nuclear tests thereafter
- Enhancement of missile technologies, including missiles with increasingly longer ranges and ones that fly on irregular trajectories



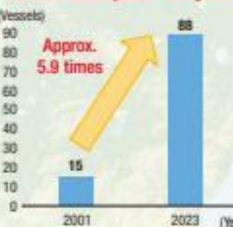
- Declared the completion of the nuclear force in 2017
- Continued systematic development of various weapons, including nuclear weapons

## China's broad and rapid change of military forces

### Fourth and fifth generation fighters



### Modern destroyers and frigates



China's attempts to unilaterally change the status quo by force in the East China Sea / Rapid expansion and increase of military activities

**“Indo-Pacific is a region with many security challenges.”**

- There are several nations and regions in this region with large military forces, including nuclear weapons, do not share universal values, nor the political and economic systems based on such universal values.
- There exists a complex intertwining of diplomatic and other relations based on historical backgrounds.
- Diverse threats and challenges of various types and intensities exist in this region, such as unilateral changes to the status quo by force and such attempts in the East and South China Seas and other areas, piracy, terrorism, the proliferation of weapons of mass destruction, and natural disasters.



Chinese military reconnaissance UAV flying between the main island of Okinawa and Miyakojima strait (Jan 2023)

In the vicinity of Japan, moves towards strengthening military forces and increasing military activities are notable.

# 1-3 Features of Current Security Environment

## Russia's aggression against Ukraine

- On Feb 24 2022, Russia began the full aggression against Ukraine.
- Unilateral change of the status quo by force is an act that shakes the very foundation of the international order, including Asia.



Actual missile fragments

## The situation in Gaza Strip

- On October 7, 2023, Hamas and other Palestinian armed groups launched a number of rockets from the Gaza Strip into Israeli territory and carried out a cross-border attack on Israeli territory.



source:

(left)NHK international news navi cited from the article Nov 29 2023

[https://www3.nhk.or.jp/news/special/international\\_news\\_navi/articles/feature/2023/11/29/36150.html](https://www3.nhk.or.jp/news/special/international_news_navi/articles/feature/2023/11/29/36150.html)

(right)CNN.co.jp cited from the article Jan 2 2024

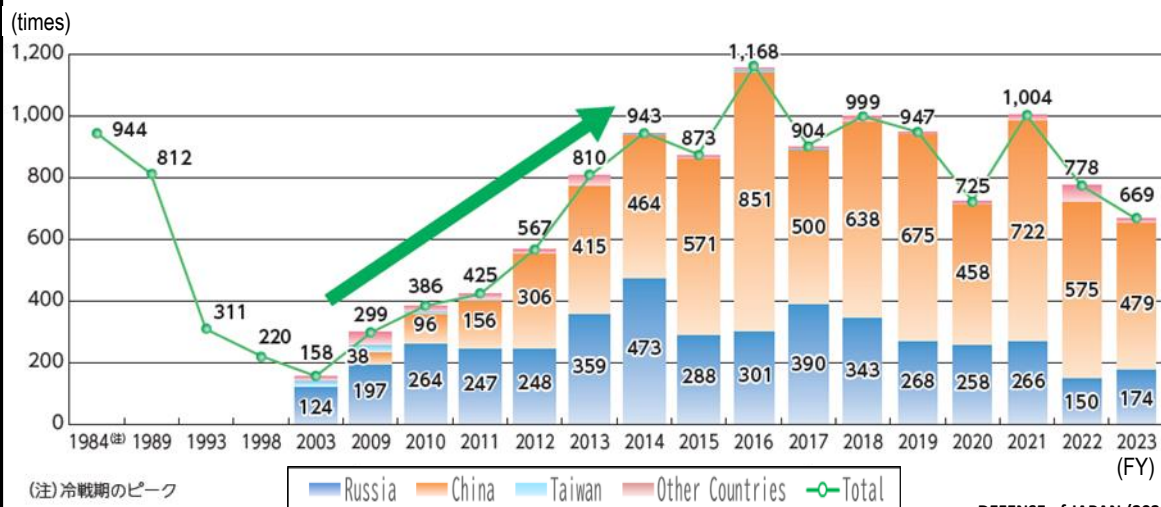
<https://www.cnn.co.jp/world/35213392.html>



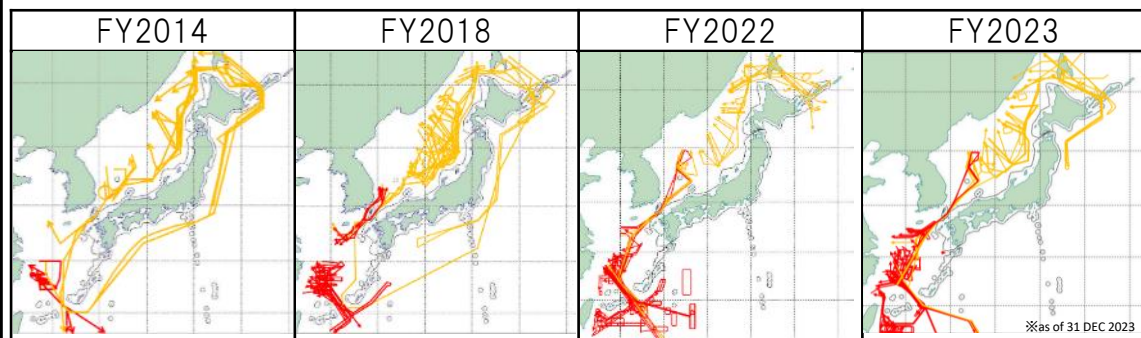
# 2-1 Sky and Space surrounding Japan: Scrambles

- The number of scrambles for FY 2023 is **669 times**
- Since FY 2013, the number of scrambles has remained **at a high level of over 700 times in a single FY.**

## Number and breakdown of scrambles since post Cold War



## Flight Patterns of Russian and Chinese Aircraft to Which Scrambles Responded



Source : JSO HP

## Russian aircraft

### Bombers



Tu-95

(7 JUN 2023)

### SIGINT aircraft



IL-20

(24 OCT 2023)

## Chinese aircraft

### Fighter



J-16

(14 DEC 2023)

### SIGINT aircraft



Y-9

(27 OCT 2023)

### UAV



BZK-005

(28 AUG 2023)

### Bomber



H-6

(12 MAR 2024)

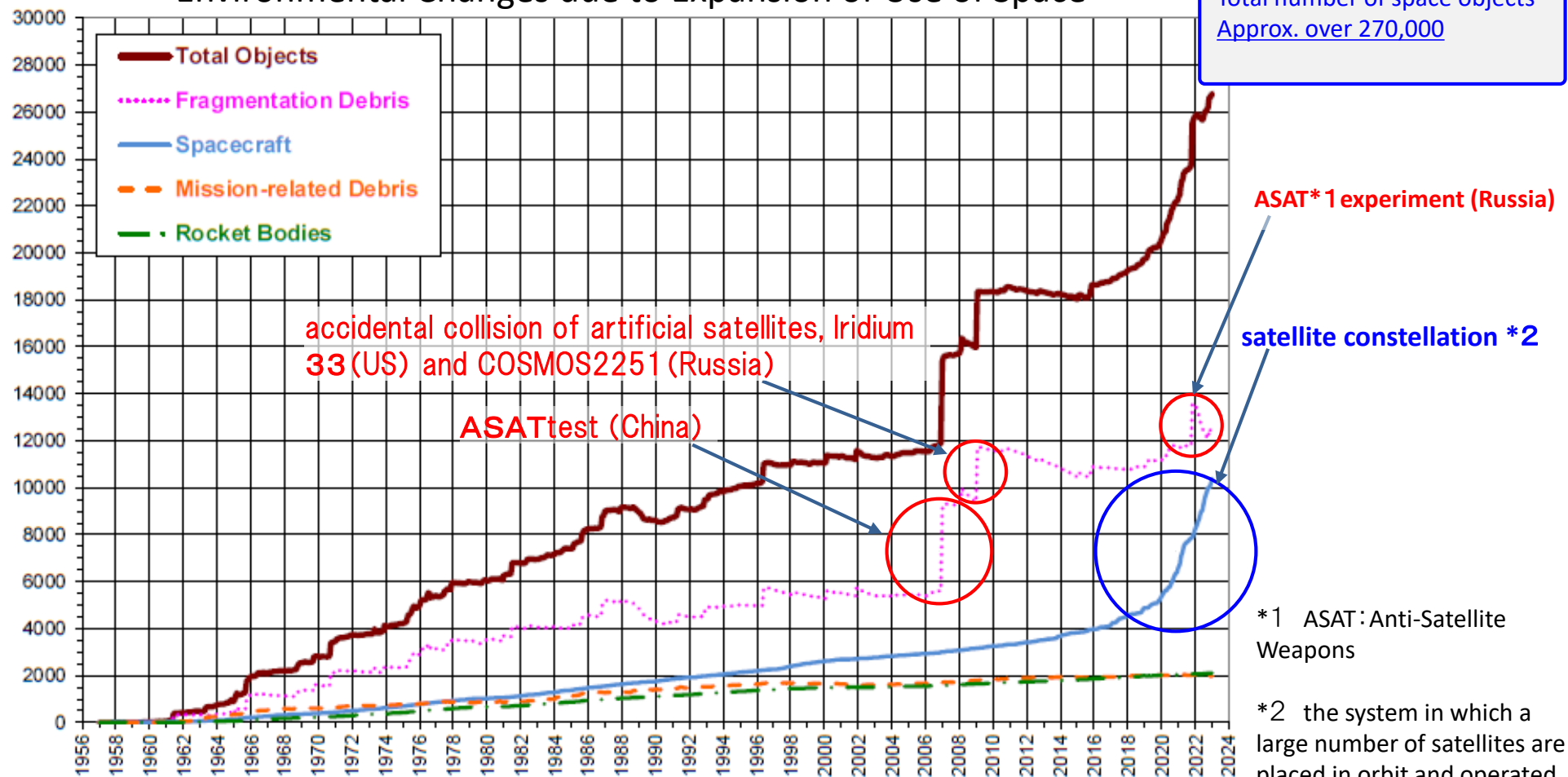


# 2-2 Sky and Space surrounding Japan : Situation in Space

## Environmental Changes due to Expansion of Use of Space

- Increasing competition for space
- Expansion of threats and risks in space
- Advanced in private sector innovation

### Environmental Changes due to Expansion of Use of Space



(source) NASA: Orbital Debris Quarterly News Volume 27, Issue 1

\*1 ASAT: Anti-Satellite Weapons

\*2 the system in which a large number of satellites are placed in orbit and operated in an integrated manner



# 2-3 Sky and Space surrounding Japan: Situation in Space

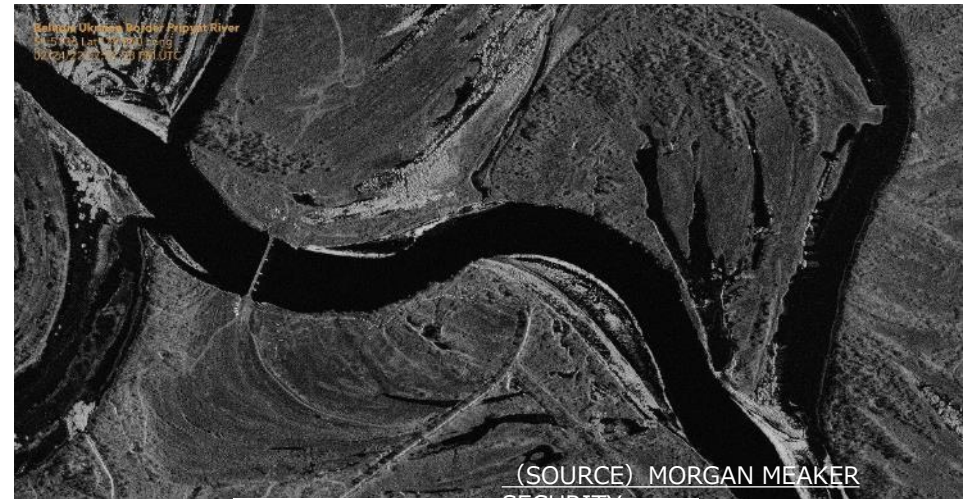
➤ Use of commercial satellite data and communications utilizing the communications satellite constellation in Ukraine

## Use of commercial satellite images



出典) <https://www.c4isrnet.com/battlefield-tech/space/2022/04/06/intelligence-agencies-celebrate-use-of-commercial-space-imagery-to-support-ukraine/>

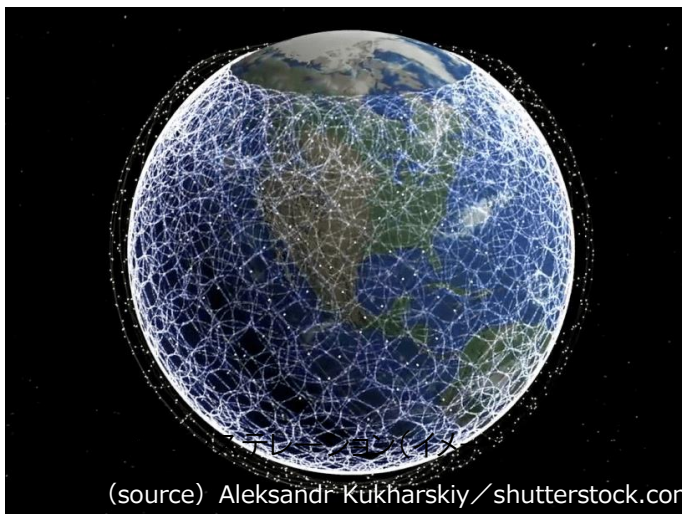
optical image (MAXAR)



(SOURCE) MORGAN MEAKER

SAR image (CAPELLA SPACE)

## Use of communication satellite constellation (star link)



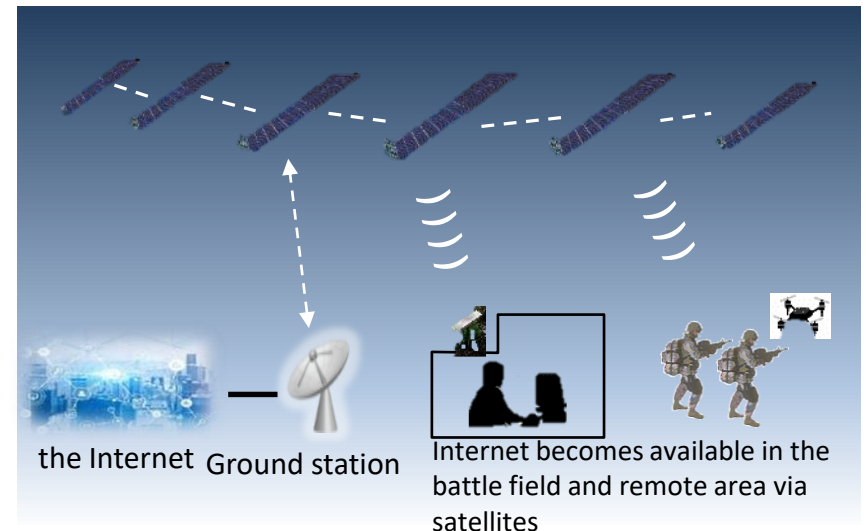
(source) Aleksandr Kukharskiy/shutterstock.com



Star link satellite



Ground antenna



the Internet Ground station

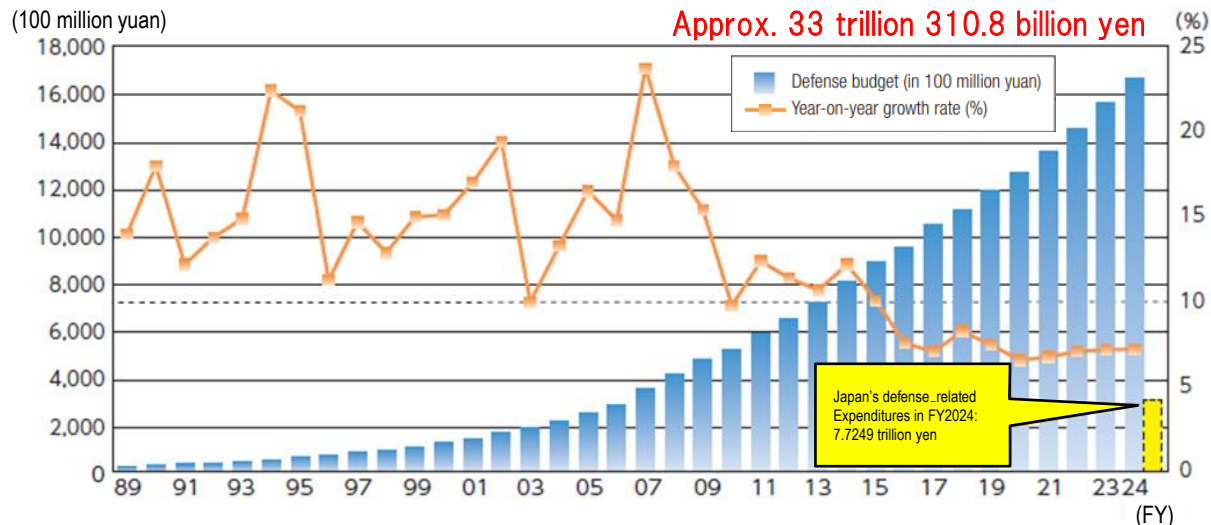
Internet becomes available in the battle field and remote area via satellites



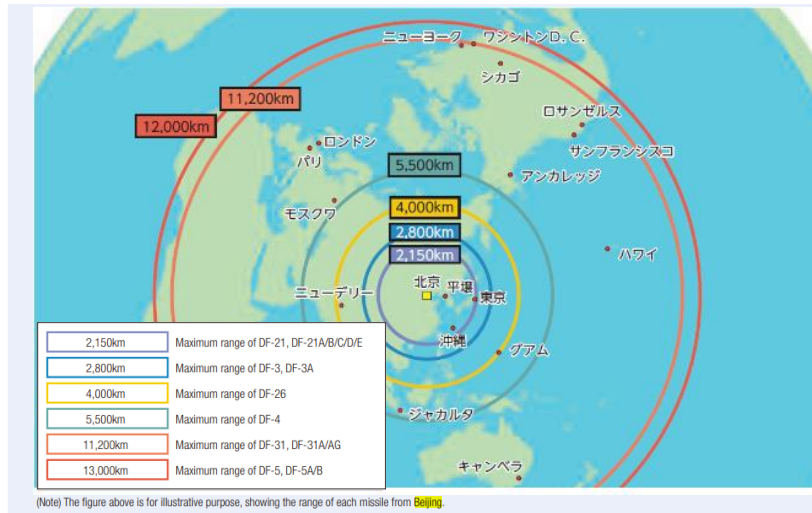
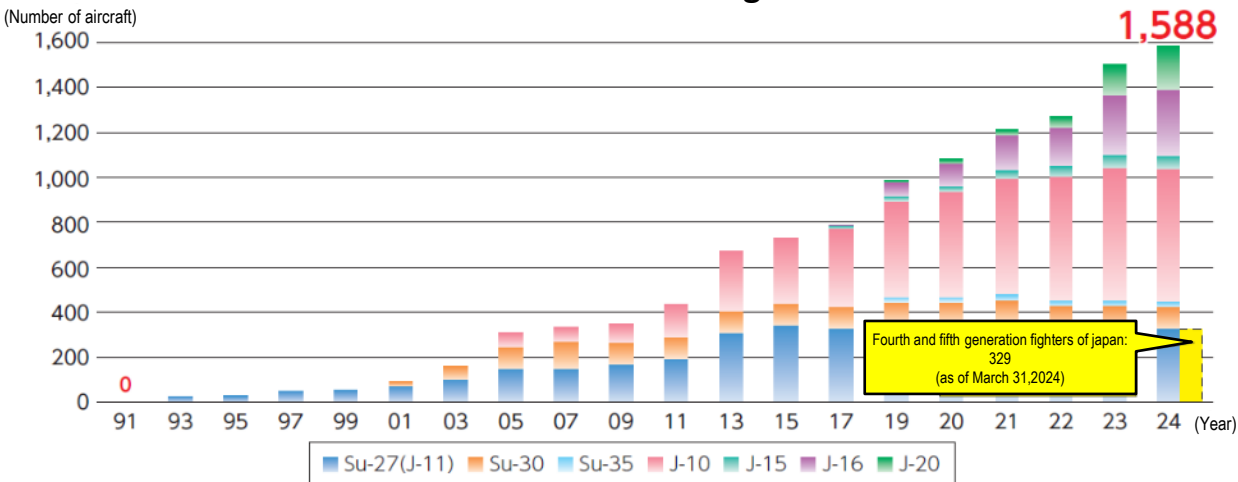
# 2-4 Sky and Space surrounding Japan : China

- China is rapidly increasing announced defense budget (approx. 32 times in 30 years, approx. 2.1 times in 10 years)
- We will keep an eye on how the sluggish economic growth affects the situation that there have been many years in which the announced defense budget increase rate exceeded the economic growth

## Changes in China's Announced Defense Budget



## 4th Gen & 5th Gen Fighters



## Range of Ballistic Missiles from China (Beijing)



aircraft estimated to be J-16 fighter



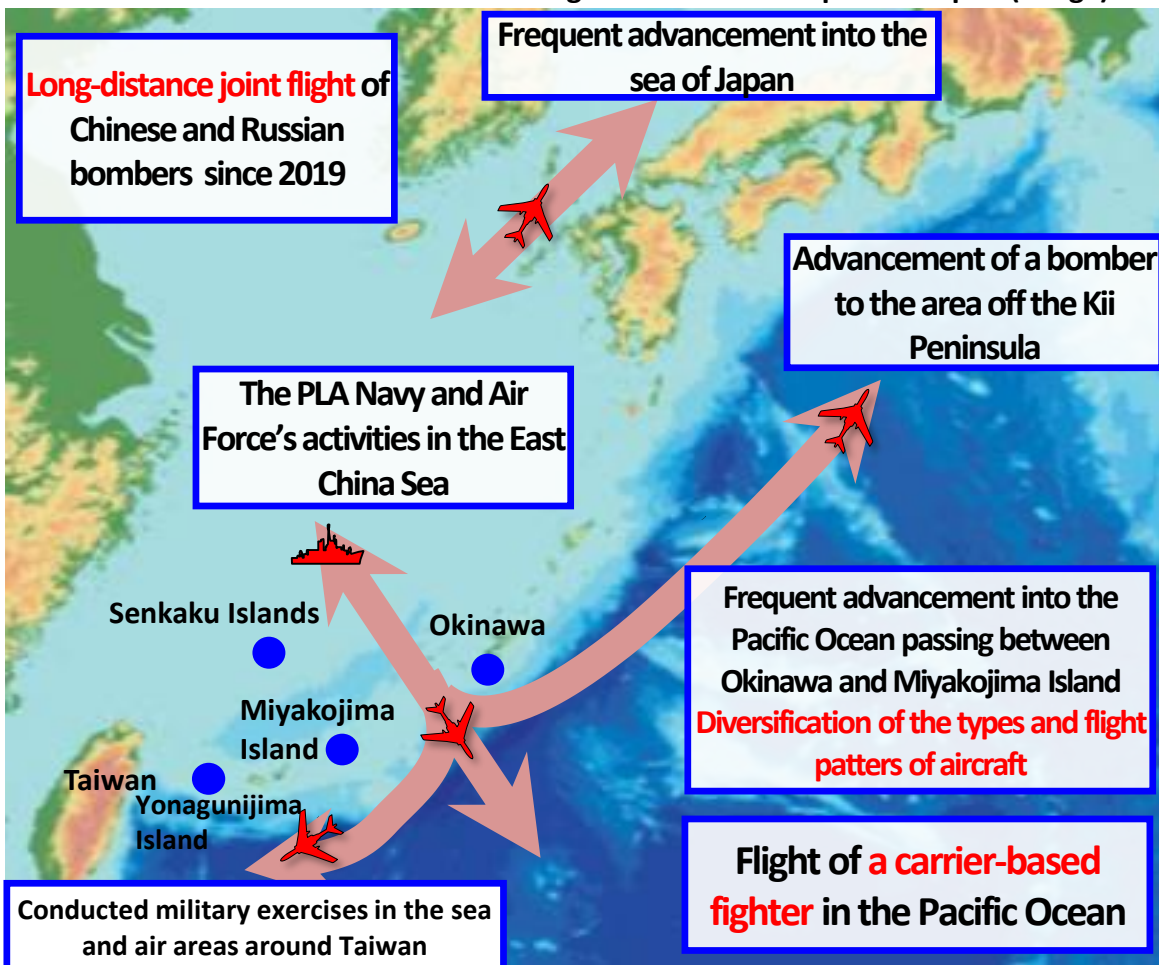
H-6 bomber



# 2-5 Sky and Space surrounding Japan : China

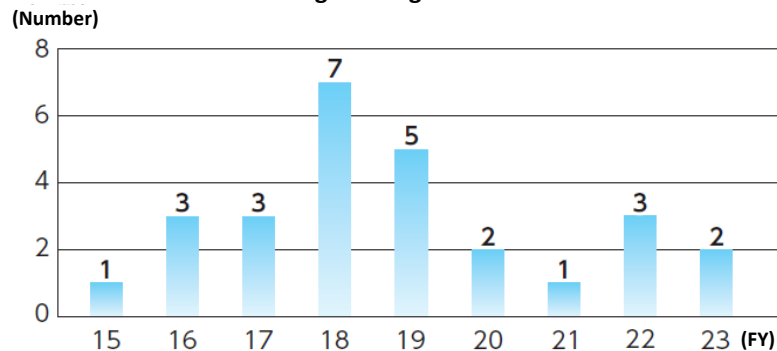
- The Chinese military is expanding and becoming more active in the sea and airspace surrounding Japan. There are cases of unilateral escalation of actions.
- The activities show improvement in quality and tendency to improve practical integrated operation capability.
- These military trends and other issues are **serious concerns to Japan and the international community as well as the greatest-ever strategic challenge.**

PLA's Recent Activities in the Surrounding Sea Area and Airspace of Japan (image)

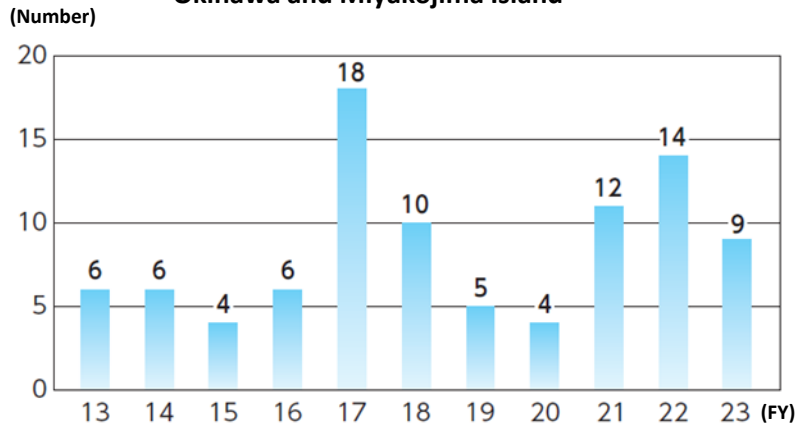


\*Locations, tracks, etc. include images and estimates.

Number of Announcement of Chinese military Aircraft's Passage through the Tsushima Strait



Number of Announcements of Chinese Military Aircraft's Passage between the Main Island of Okinawa and Miyakojima Island





# 2-6 Sky and Space surrounding Japan: China

- In recent years, Chinese military activities around Taiwan are intensifying.
- Since August 2022, the number of Chinese military aircraft entering the "median line" of Taiwan Strait drastically increased.
- In April 2023, China conducted large-scale military exercises in the sea and airspace around Taiwan in response to President Tsai Ing-wen's meeting with U.S. House Speaker McCarthy.
- Through a series of activities around Taiwan, **China aims to make the situation that Chinese military is operating on regular basis as "fait accompli" and to improve its practical capabilities.**

The meeting between President Tsai and House Speaker McCarthy



The scene of the dialogue



The scene of the joint press conference

## Chinese military exercises around Taiwan



Vessel estimated as Jiangkai II-class frigate

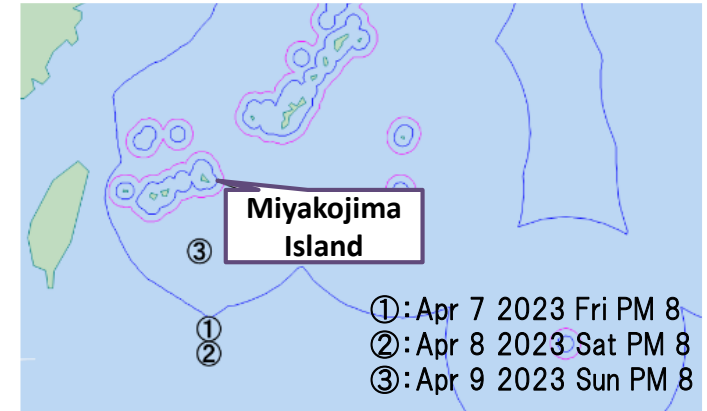


Aircraft estimated as J-16 fighter



Aircraft estimated to be taking off from Chinese aircraft carrier "Shandong"

## Recent trends of aircraft carrier "Shandong"



○ From Friday, April 7 to Sunday, April 9, 2023, the MSDF confirmed the aircraft carrier "Shandong," the destroyer, the frigate, and the combat support vessel were navigating in the area over the Pacific Ocean as shown in the diagram above.

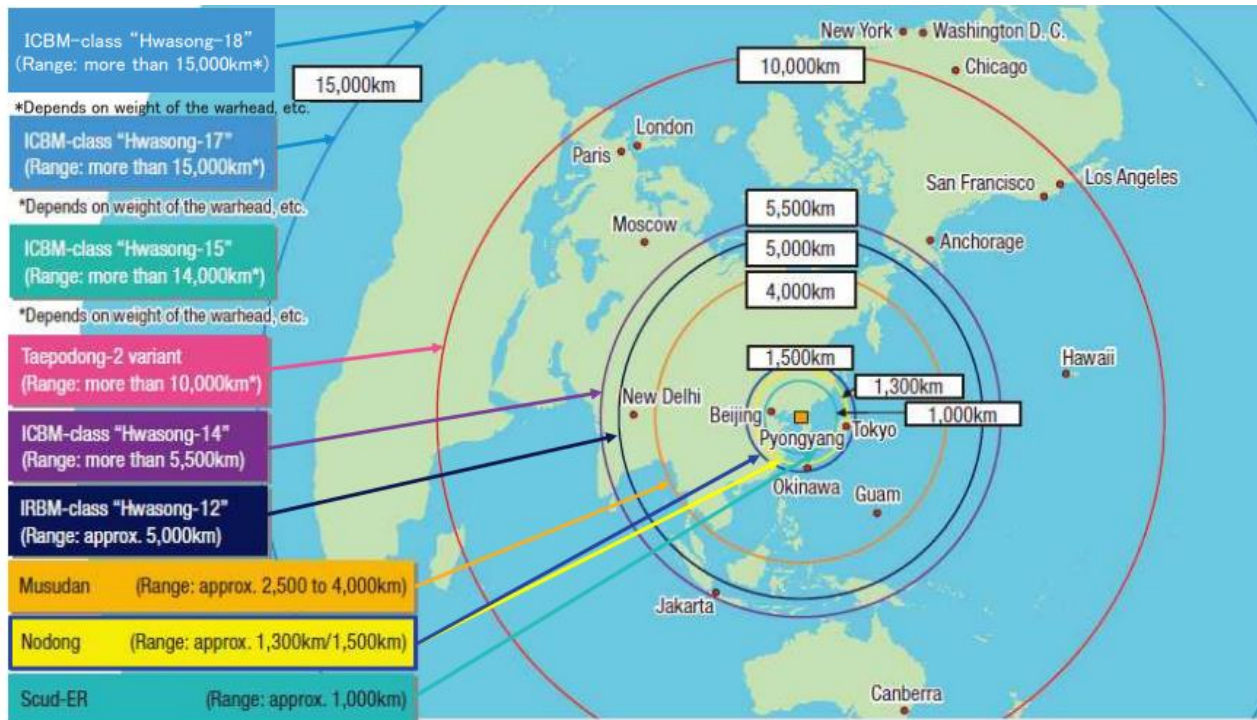
○ **Approximately 120 sorties** were confirmed during this period : **approximately 80 times by carrier-based fighters** and **approximately 40 times by carrier-based helicopters** from the aircraft carrier "Shandong."



# 2-7 Sky and Space surrounding Japan : DPRK

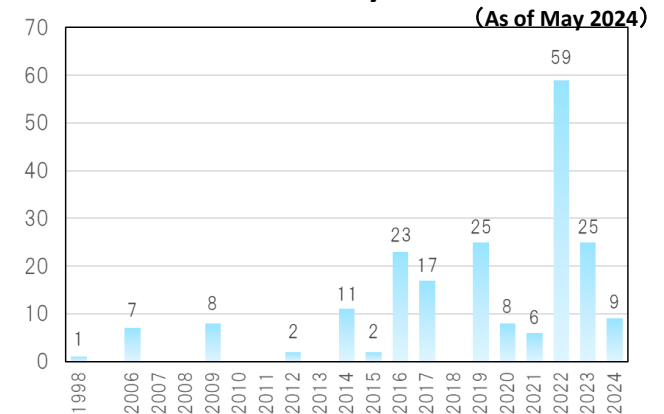
- North Korea's ultimate goal appears to be maintaining its existing regime, it recognizes that building its own nuclear deterrent is essential to counter the U.S. and South Korean conventional forces and U.S. threats, including nuclear weapons. For this reason, North Korea is promoting the development of nuclear weapons as well as ballistic missiles that are their delivery systems.
- By putting a ballistic missile that flies in an irregular trajectory in low altitude into practical use and launching them from various platforms, **they aim to further strengthen their surprise attack capabilities, which are difficult to notice sign of launch, detect and intercept.**
- North Korea's military trends pose **a more serious and imminent threat than ever before.**

## Range of North Korea's Ballistic Missiles



Note 1: For simplicity, the distance from Pyongyang is displayed in concentric circles as an image.  
 Note 2: Quotation marks indicate the names used by North Korea.

## Trends in Nuclear Tests and Ballistic Missile Launches by North Korea



Photograph published by North Korea at the time of the launch of the Hwasong-17 ICBM-class ballistic missile (Nov 2022) (Korean News Agency)



# 2-9 Sky and Space surrounding Japan : Russia

- President Putin is pursuing a Russian revival under the banner of "strong state" and "influential great power."
- President Putin clarifies commitment to modernize strategic nuclear weapons
- They continue intensified activities such as **introducing new equipment and conducting exercises**, and strengthen strategic cooperation with China.
- Russia's military trends, **coupled with its strategic cooperation with China, have raised strong security concerns.**



Stereogushchiy II class frigate "Gremyashchiy" passing Soya strait (Feb 2022)



Kilo-class submarine of Russian Navy going west through Soya strait (Oct 2022)

Petropavlovsk (strategic nuclear submarine)

Paramushir

Sea of Okhotsk

Matsuwa Island

Etorofu Island

Kunashiri Island

Soya strait

JAPAN

Ukrainka (long-distance bomber)

Khabarovsk (East military headquarters)

Vladivostok (surface ships)



Surface-to-ship missile "Bastion" running inside Matsuwa Island



Small drone for reconnaissance "Orlan-10"

## Russian Far East force's new equipment



Borey Class strategic nuclear submarine



Stereogushchiy- II Class frigate



Surface-to-air missile "S-400"



Su-35S fighter

### 【exercise · training】

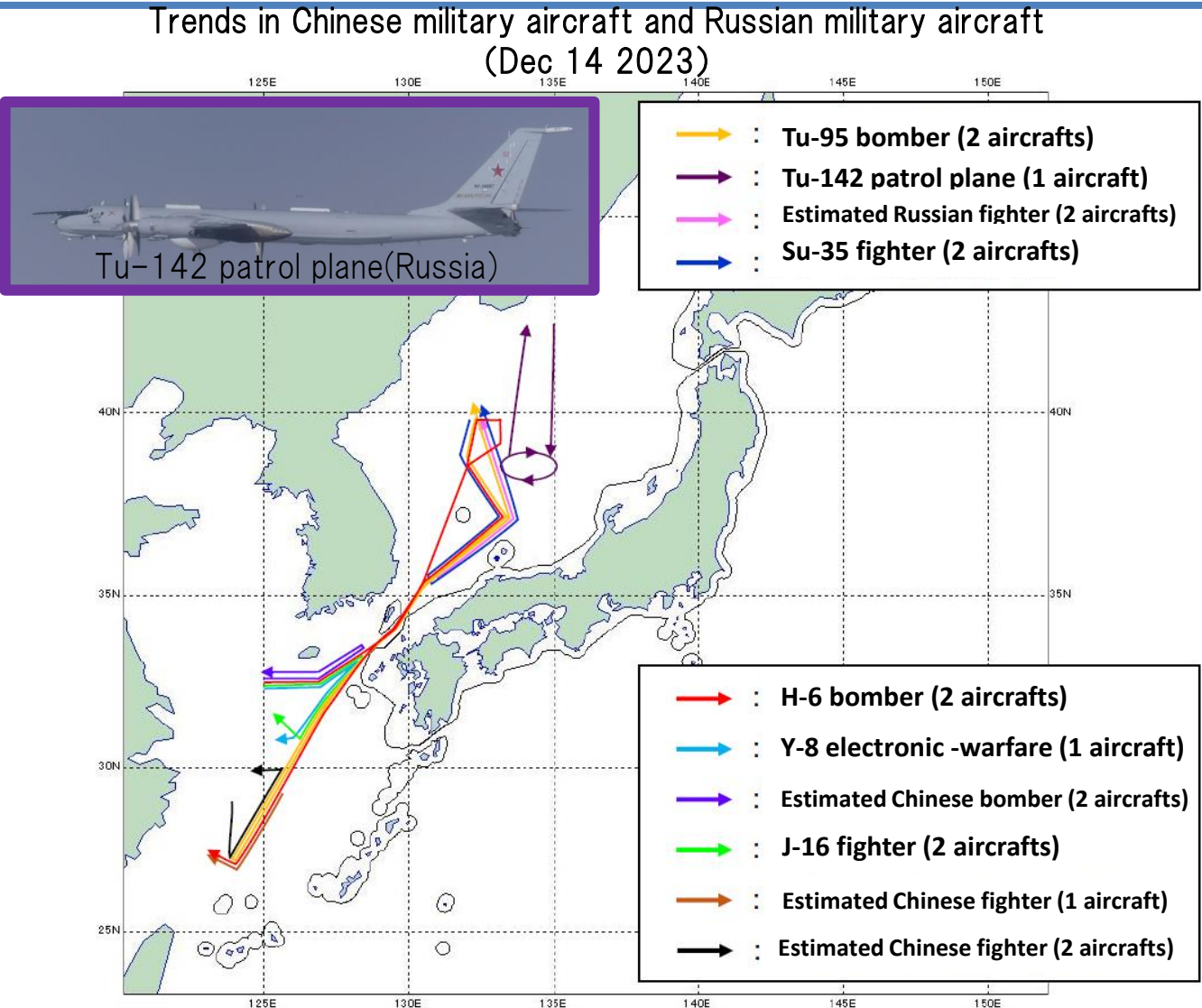
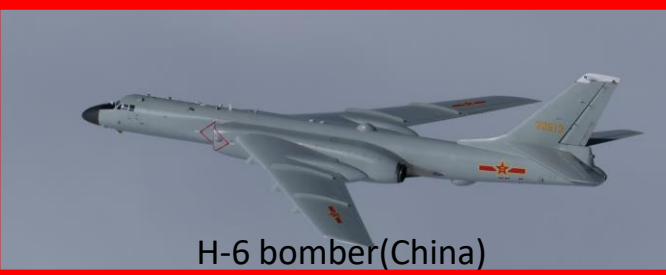
- large-scale exercise "Vostok2022" (Sep 2022) (announcement by the Russian Defense Ministry)
- In addition to the participation of **more than 50,000 soldiers**, **joint firing exercises were conducted with the Chinese Navy in the Sea of Japan west of Hokkaido.**



# 2-10 Sky and Space surrounding Japan : China-Russia Joint Patrol Flight

➤ The number of scrambles against Russian aircraft has averaged **approximately 223** per year over the past five years. (2019~2023)

➤ Since 2019, Russia has conducted **joint flight with Chinese bombers** in the Sea of Japan, the East China Sea, and the Pacific Ocean.





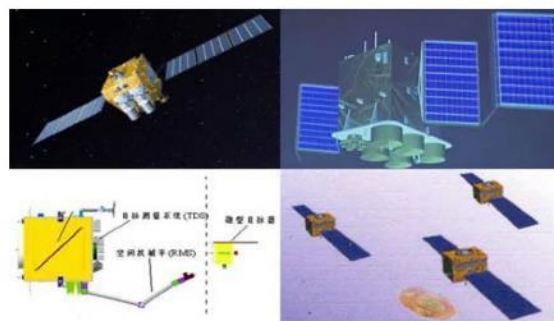
# 2-11 Sky and Space surrounding Japan : China & DPRK

- In China, the number of satellite launches has been increasing remarkably in recent years, and the number has increased about six times in the 12 years from 2012.
- In May, August, and November 2023, North Korea conducted vehicle launches. The November launch was confirmed that the launched object is orbiting the earth.



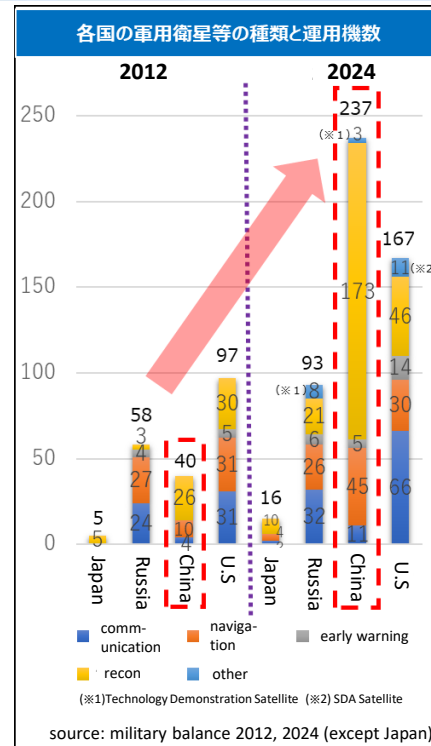
GNSS of China※ Bei-Dou  
※Global Navigation Satellite System

附图 1: 2013 年前三季度公司小卫星产品发射交付概览



资料来源: 上海证券研究所  
source: GLOBAL COUNTER SPACE

Illustration of a satellite carrying a Chinese robotic arm



Source : Korean Central News Agency

Picture of launches released by North Korea



Source : Korean Central News Agency

“ National Air Space Technological Bureau  
Pyongyang control center” released by North Korea



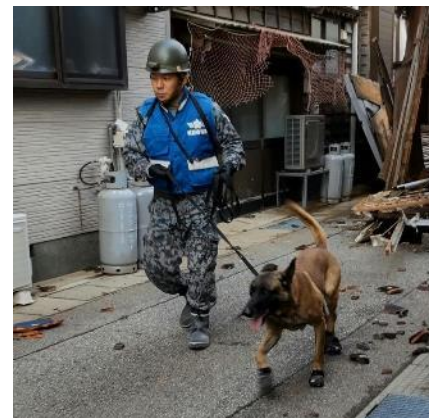
## II Air Defense Capability & Missions of Koku-Jieitai

1 Missions and actions of Koku-Jieitai

2 Characteristics of Air Defense Capability

3 Organization of Koku-Jieitai

4 Cooperation with the Ally and Like-Minded Countries





# 1-1 Missions and Operations of Koku-Jieitai

## extracted from SDF law, Article 3 [Missions of the Self-Defense Forces]

- Protect our country in order to ensure its security and protect the peace and independence of our country
- Maintain public safety and order when necessary
- Koku-Jieitai carries out **missions mainly in the airspace**



Action against violation of territorial airspace

## extracted from SDF law, Chapter 6 [Operations of Self-Defense Forces]

- Defense operation (Article 76)
- Civil protection dispatch (Article 77-4)
- Public security operation (Article 78, 81)
- Guarding operation (Article 81-2)
- Maritime safety operations (Article 82)
- Anti-piracy activity (Article 82-2)
- [Destruction measures against ballistic missiles, etc. \(Article 82-3\)](#)
- [Disaster relief dispatch \(Article 83\)](#) , Earthquake disaster relief dispatch (Article 83-2)
- Nuclear disaster relief dispatch (Article 83-3)
- [Action against violation of territorial airspace \(Article 84\)](#)
- [Rescue of Japanese nationals overseas, Transportation of Japanese nationals overseas \(Article 84-3,4\)](#)
- [Logistics support and other activities, international disaster relief activities, international peace cooperation activities in situations that will have an important influence on Japan's peace and security \(Article 84-5\)](#)



Destruction measures against ballistic missiles, etc.



Disaster relief dispatch

## extracted from SDF law, Chapter 8 [Miscellaneous Provisions]

- Cooperation in athletic competitions and other events (Article 100-3)
- [Transportation of national guests \(Article 100-5\)](#)



Transportation of Japanese nationals overseas and international emergency assistance



# 1-2 Missions and Operations of Koku-Jieitai

Koku-Jieitai is **the only organization that protects our sky and space** from peacetime to emergencies

## Ground

## Maritime

## Air

【Contingencies】

### JGSDF



Approx. 151,000 personnel

### JMSDF



Approx. 45,000 personnel  
Approx. 140 vessels

### JASDF (Koku-Jieitai)



Approx. 47,000 personnel  
Approx. 430 aircrafts  
(approx. 320 fighter aircraft)

Defense  
Capabilities

【Peace time】

### Police



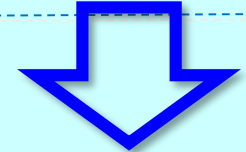
police officer , etc. : approx.  
260,000 personnel

Police  
Power

### Japan Coast Guard



Approx. 14,000 personnel  
Approx. 450 vessels



**Koku-Jieitai deals with violation of territorial airspace because it is difficult for police agencies**

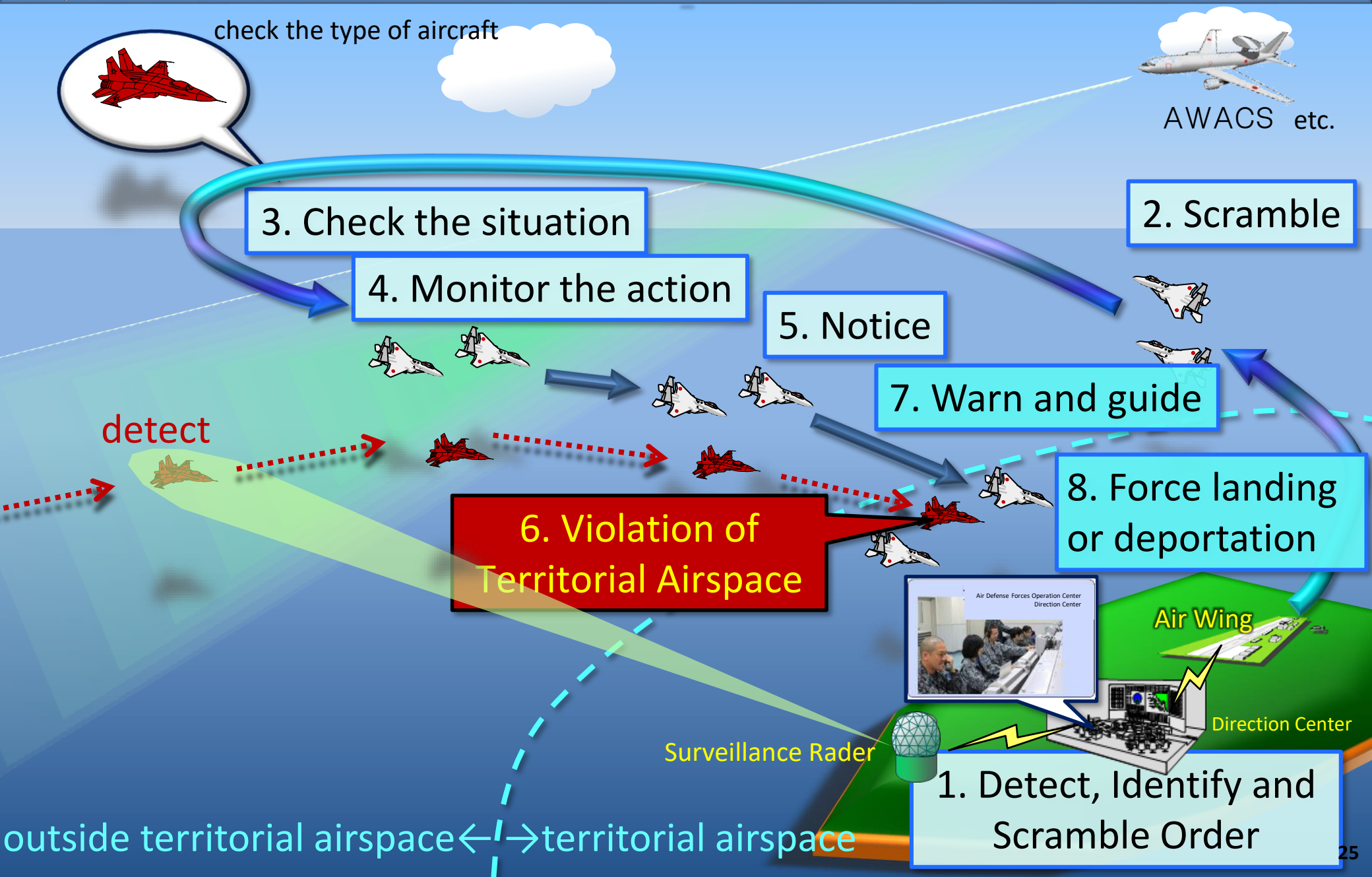
➤ **Koku-Jieitai is Japan national team in air and space domain regardless of peace time or contingencies**

Source: DEFENSE OF JAPAN 2023, JGSDF Official Website, JMSDF Official Website, Japan Coast Guard Official Website,

The White Paper on Police, Metropolitan Police Department Website 24



# Action against Violation of Territorial Airspace (Article 84)

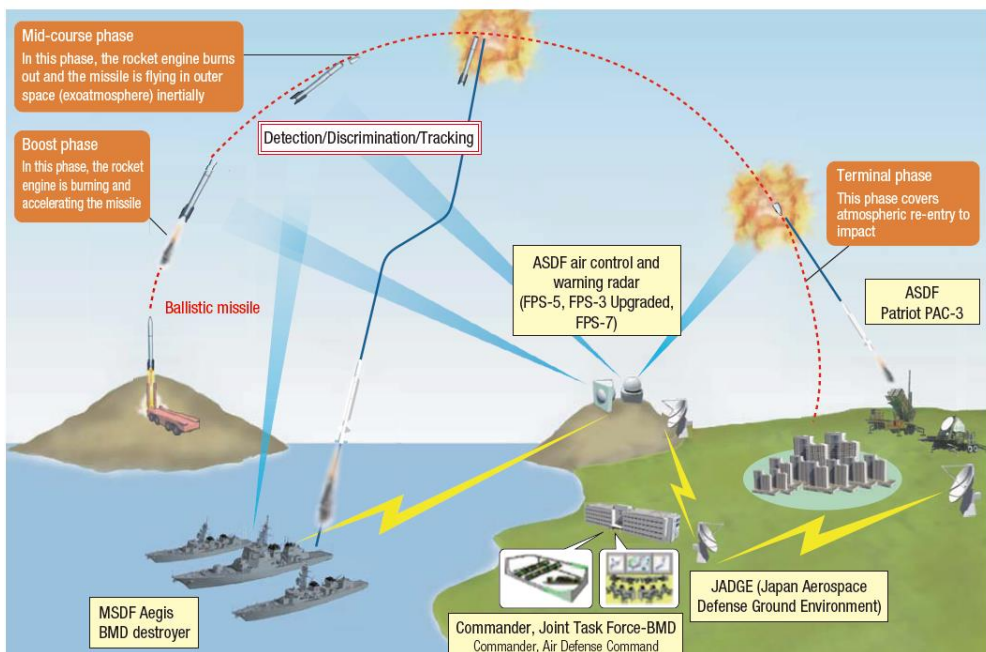




# Destructive Measures against Ballistic Missiles (Article 82-3 of the SDF Law)

➤ Organizing \*JTF-\*BMD led by **ADC/CC**, we maintain readiness for effective response under **centralized command** through the automatic warning and control system

## Development & Operation Concept of BMD



JMSDF Aegis



PAC-3

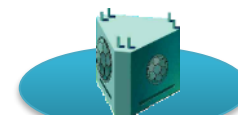
## e.g. Organization of JTF-BMD

Minister of Defense

COS, Joint Staff

Commander of JTF-BMD  
Commander, Air Defense Command

JASDF  
AC&W unit



JASDF  
PATRIOT PAC-3 unit



JMSDF  
Aegis warship



JGSD  
Unit



\*JTF : Joint Task Force

\*BMD : Ballistic Missile Defense



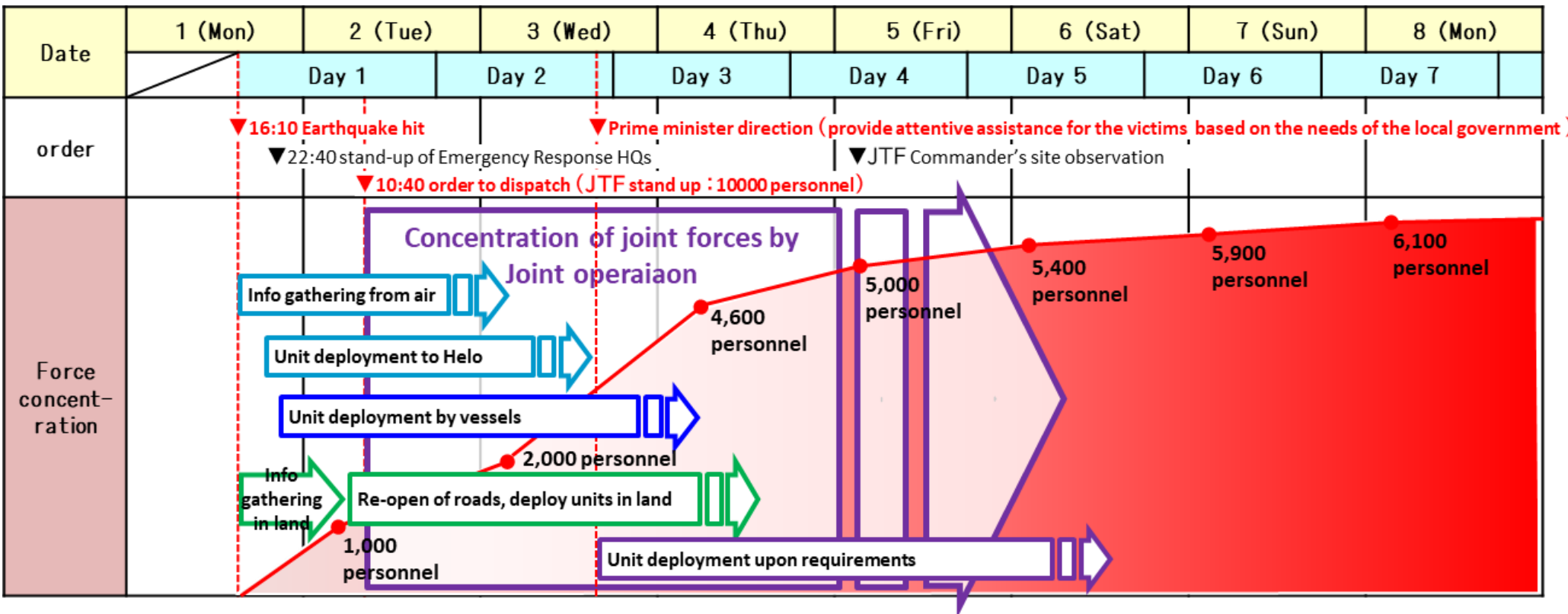
# Disaster Relief Dispatch (Article 83)

Disaster Relief Dispatches to Noto Peninsula Earthquake (Jan 2024-)

## Concentration of joint operational forces tailored to meet the local needs

Characteristics of this dispatch

- 1 Ground access was cut-off for 2 days due to the road disruption ⇒SDF helicopter-use prioritized
- 2 SDF personnel in the hit area was only 40 members in Wajima sub base



Source : JSO HP



# Disaster Relief Dispatch (Article 83)

## Dispatch to Noto Peninsula Earthquake (FY23)



**Evacuation of locals at JASDF Wajima Sub Base  
(Jan 1)**



**Search and rescue in Wajima city  
(Jan 4)**



**Food aid at Nakajima Elementary School, Nanao  
(Jan 4)**



**UH-60J airlifts Locals from an isolated area  
(Jan 6)**



# Disaster Relief Dispatch (Article 83)

## Dispatch to Noto Peninsula Earthquake (FY23)



C-2 transport rescue trucks from Yokohama Fire Dept (Jan 8)



JCG patrol vessel filling a water tanker truck at Nanao port (Jan 10)



JASDF physician provides medical service at Wajima city (Jan 12)



Collaborative SAR effort with police and fire dept (Jan 12)



# Disaster Relief Dispatch (Article 83)

## Medical Evacuation (FY23)



Activity	Engagement	CAO Jan 2024
MEDEVAC	UH-60J, U-125A, C-2 C-130H	28 cases

## Heavy Rainfalls Disaster Relief in Karatsu, Saga (July 11, 2023)

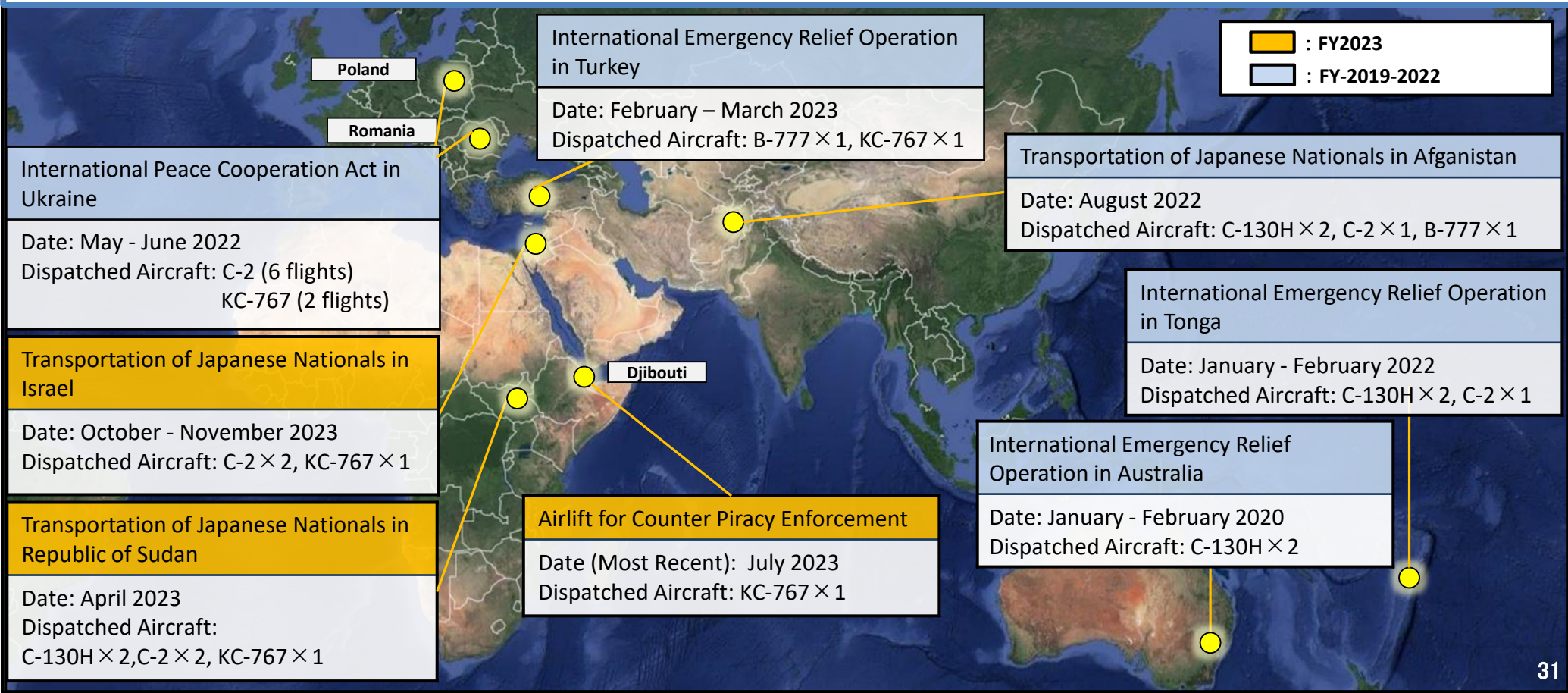


Activity	Engagement
SAR for missing with MWD	K9: 3 Dispatched personnel: 14



# Transportation of Japanese Nationals Overseas/International Emergency Relief Operation

- Koku-Jieitai has conducted various International Emergency Relief Operation, Transportation of Japanese Nationals Overseas (TJNO) and International Peace Cooperation Act over 30 years
- **Airlift of supplies** for Counter Piracy Enforcement in Djibouti
- In April 2023, Koku-Jieitai conducted the **transportation operation with C-2 from Sudan to Djibouti** due to its uncertain security situation
- In October – November 2023, **KC-767 transported Japanese nationals in Israel to Japan due to the security concern in Israel and Palestine. The evacuation team is still on standby in Japan. (as of March 2024)**





# Transportation of Japanese Nationals Overseas/International Emergency Relief Operation

## Transportation of Japanese Nationals in Sudan (April 2023)

➤ Koku-Jieitai dispatched C-130H, C-2 and KC-767 and transported 45 Japanese nationals including their families from Sudan to Djibouti

## Transportation of Japanese Nationals in Israel (October 2023-)

➤ Koku-Jieitai dispatched C-2 and KC-767 and transported 129 Japanese nationals and others from Israel to Japan



Image: JJS official X

C-130H departs to Sudan (Komaki AB)



Unloading passengers at Haneda Airport



Image: Defense of Japan 2023

C-2 flying from Sudan to Djibouti



Send-off in the passengers



# VIP Transport (Article 100-5)

- Koku-Jieitai has conducted VIP transport since 1993
- 401 flight mission has been conducted (as of September 10, 2024) (B-747: 349, B-777: 52)
- Visited 101 countries (281 Cities)



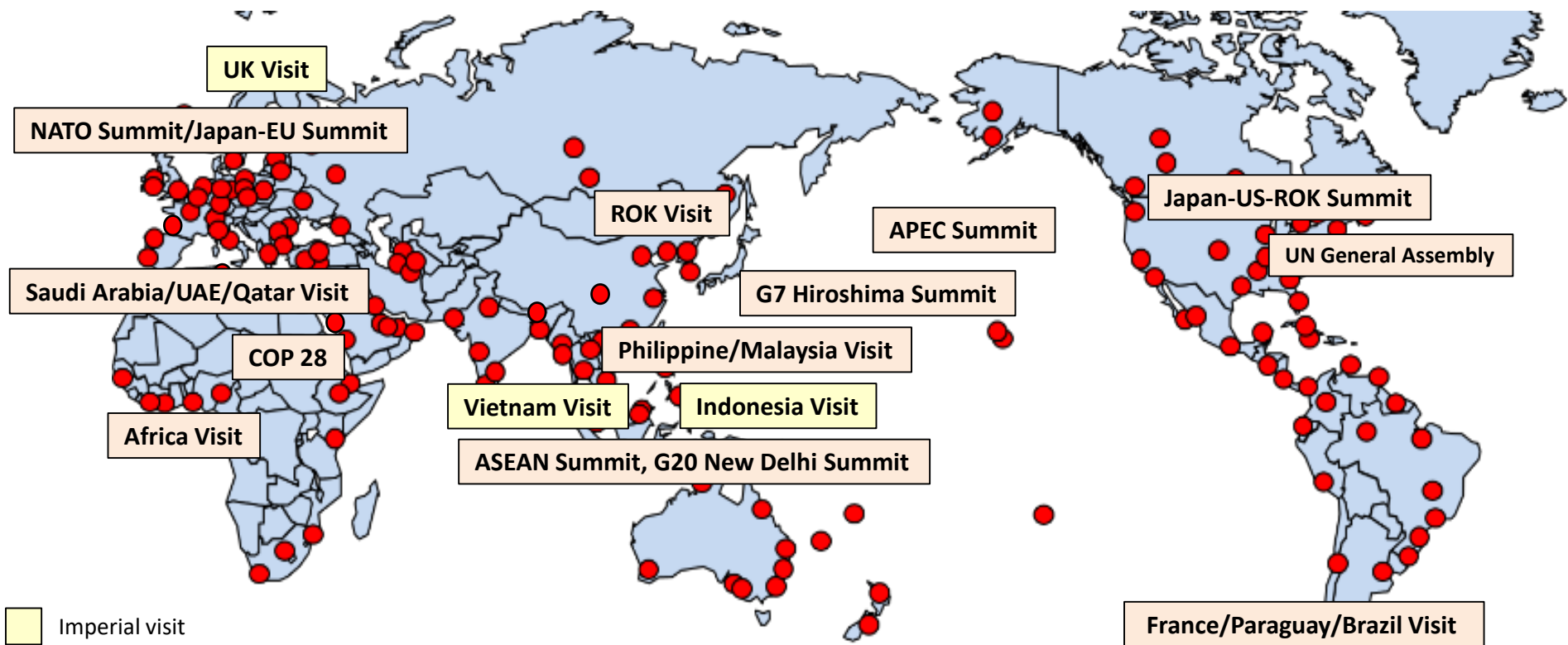
Inside of the plane



VIP transport (Prime Minister)



B-777



- Imperial visit
- Prime Minister visit



## 2-1 Characteristics of Air Defense Capability

### Air Defense Capability

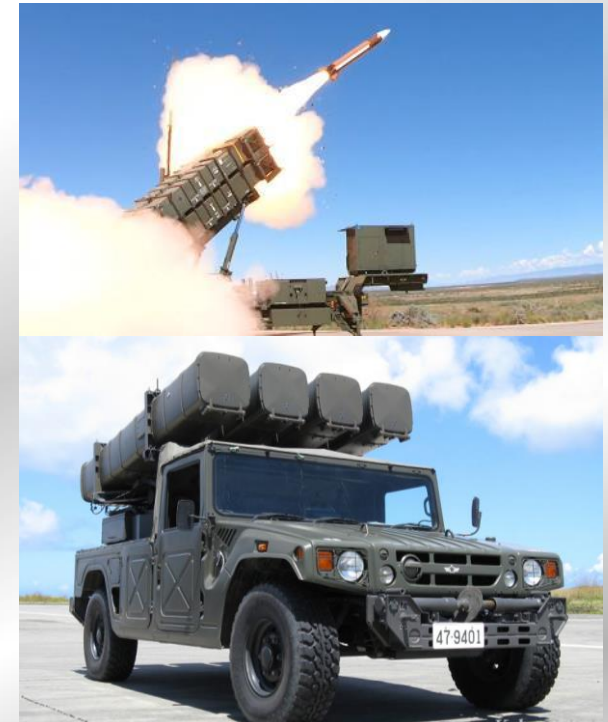
**Defense capability related to air that a state possesses such as aircraft, radars and missiles**



**Fighter Units**



**Aircraft Control and Warning Units**

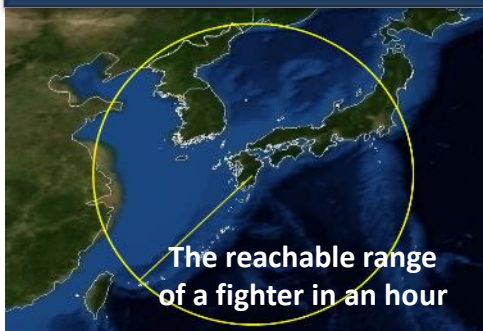


**Surface-to-Air Missile Units**



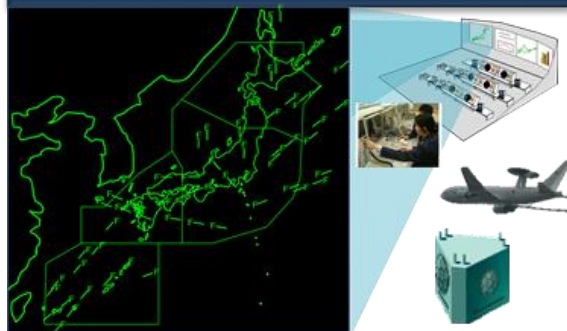
# 2-2 Characteristics of Air Defense Capability

## Readiness and Agility



The reachable range of a fighter in an hour

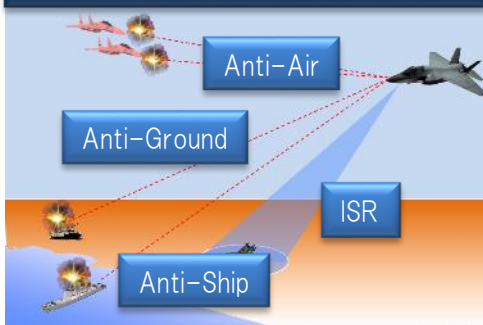
## Surveillance Capability



## Strongly affected by Weather



## Flexibility and Diversity



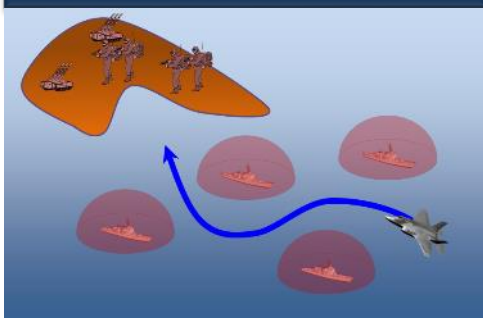
## Command, Control and Communication Capabilities



## Vulnerable on the Ground



## Penetration and Survivability



## Precise Response Capability



## Long-Term required for building

Equipment procurement

Education





# 3 Organization chart of Koku-Jieitai



Quota of Koku-Jieitai: approx. 50,000 personnel (civilian: 2,900 )  
 Note: Below the quota in 2023. Actual number of personnel may defer



# 3-1-1 Organization chart of Koku-Jieitai : Air Defense Command

## Northern Air Defense Force

Chitose  
(Hokkaido)

## Central Air Defense Force

Komatsu  
(Ishikawa)

Misawa  
(Aomori)

## Western Air Defense Force

Kasuga  
(Fukuoka)

Hyakuri  
(Ibaraki)

Tsuiki  
(Fukuoka)

Iruma  
(Saitama)

Hamamatsu  
(Shizuoka)

Nyutabaru  
(Miyazaki)

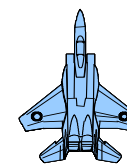
Naha  
(Okinawa)

## Southwestern Air Defense Force

Fighter units in total: 12 units  
Number of fighters ≒ 260



F-35










F-15



F-2

28 Radar Sites

3 AEW&C/1 AW&C Wing

-  : SOC/DC
-  : Surveillance Radar
-  : BMD Surveillance Radar
-  : Mobile Radar (TPS-102)
-  : AWACS
-  : E-2C
- 

1 Reconnaissance Group

 : RQ-4B



# 3-1-2 Organization chart of Koku-Jieitai : Air Defense Command



Launch of Surface- to- Air Missile

## Central Air Defense Force

## Northern Air Defense Force

### Northern Air Defense Missile Group (Misawa)

Chitose	2 SQs
Naganuma	2 SQs
Yakumo	2 SQs
Shariki	2 SQs

### Central Air Defense Missile Group (Iruma)

Narashino	1 SQ
Takeyama	1 SQ
Kasumigaura	1 SQ
Iruma	1 SQ
Gifu	2 SQs
Aibano	1 SQ
Hakusan	1 SQ

## Western Air Defense Force

### Western Air Defense Missile Group (Kasuga)

Ashiya	2 SQs
Tsuiki	1 SQ
Kouradai	1 SQ

### Southwestern Air Defense Missile Group (Naha)

Naha	1 SQ
Chinen	2 SQs
Onna	1 SQ

## Southwestern Air Defense Force



Deployed Equipment



# 3-1-3 Organization chart of Koku-Jieitai : Air Defense Command

Air Rescue units : 10 SQs

U-125A



UH-60J



Helicopter Airlift units : 4 SQs

CH-47J



Koku-Jieitai



# 3-2-1 Organization chart of Koku-Jieitai : Air Support Command

## Commander, Air Support Command

HQs, Air Support Command(Fuchu)

### Tactical Airlift Group (Komaki, etc.)

- Airlift missions
- Support JGSDF Airborne unit
- Education and training to pilots and maintainers



### Air Traffic Control Service Group (Fuchu, etc.)

- Air traffic control
- Flight control
- Flight information service



### Air Weather Service Group (Fuchu, etc.)

- Weather forecast
- Weather observation
- Weather intelligence



### Flight Check Squadron (Iruma)

- Flight check service for facilities of aeronautical security and air traffic control



### Special Airlift Group (Chitose)

- Transport service for state guests using special cargo aircraft (B-777)



### Aeromedical Evacuation Squadron (Komaki)

- Onboard medical care for patients in critical condition
- Research and surveys for onboard medical service
- Education on emergency care





# 3-2-2 Organization chart of Koku-Jieitai : Air Support Command



B-777



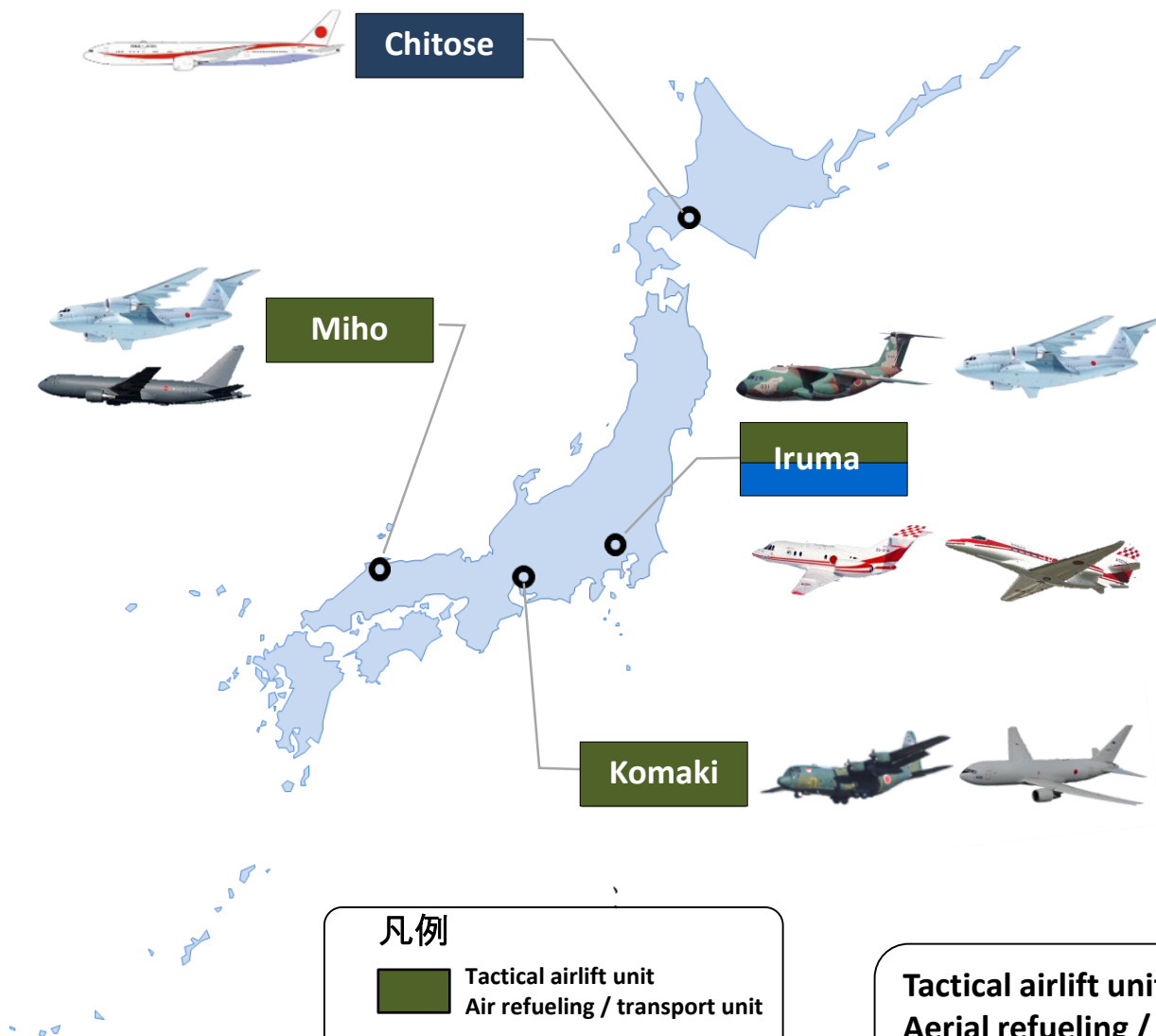
C-2



KC-46A



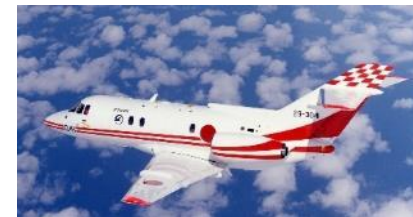
KC-767



C-130H



C-1



U-125



U-680A

**凡例**

- Tactical airlift unit
- Air refueling / transport unit
- Flight check unit
- Special airlift unit

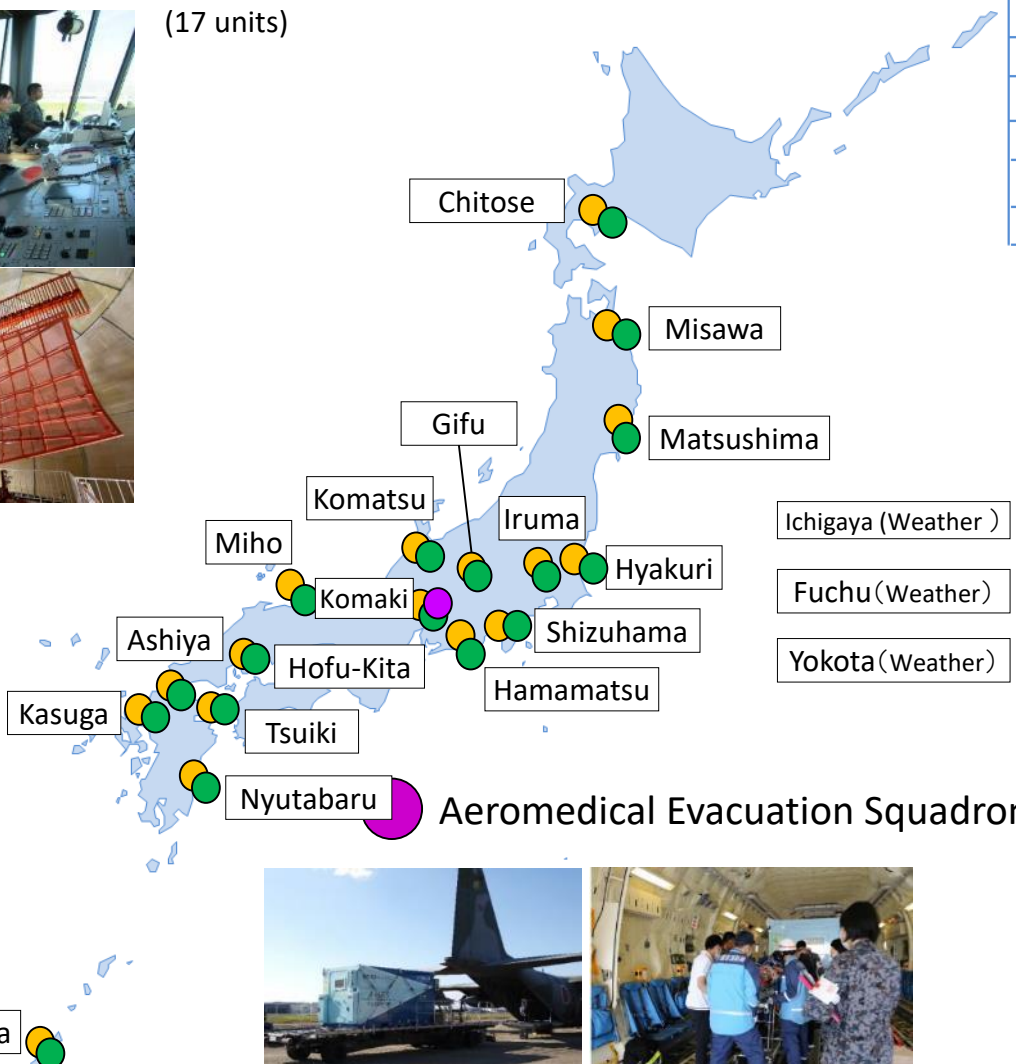
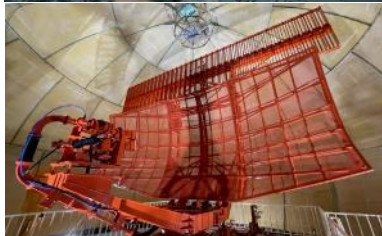
**Tactical airlift unit: 3 SQs**  
**Aerial refueling / transport unit: 2 SQs**  
**Flight check unit: 1 SQ**  
**Special airlift unit: 1 SQ**



# 3-2-3 Organization chart of Koku-Jieitai : Air Support Command

## Air Traffic Control Service Group

(17 units)



## Air Support Command (Headquarters: Fuchu)

- 1st Tactical Airlift Wing (Komaki)
- 2nd Tactical Airlift Group (Iruma)
- 3rd Tactical Airlift Wing (Miho)
- Air Traffic Control Service Group (Fuchu)
- Air Weather Service Group (Fuchu)
- Flight Check Squadron (Iruma)
- Special Airlift Group (Chitose)
- Aeromedical Evacuation Squadron (Komaki)

## Air Weather Service Group (20 units)



- Ichigaya (Weather)
- Fuchu (Weather)
- Yokota (Weather)





# 3-3 Organization chart of Koku-Jieitai : Air Training Command



note : the dotted line doesn't mean the chain of command, but the school management is commanded by ATC Commander



# 3-4 Organization of the Koku-Jieitai (Air Development and Test Command)

**Commander, Air Development and Test Command**

**HQs, Air Development and Test Command  
(Fuchu)**

## **Air Development and Test Wing (Gifu)**

- Test, evaluate and basic operational research of aviation equipment
- Support Acquisition, Technology & Logistics Agency (ATLA)
- Test flight for receiving based on request from ATLA
- Education and training for test pilots



## **Electronics Development and Test Group (Fuchu)**

- Test, evaluate and basic operational research of ground communication electronics equipment
- Support ATLA
- Technical research regarding radio wave and quality of communications



## **Aeromedical Laboratory (Iruma)**

- Research and job knowledge test for aviation medicine and psychology
- Aeromedical physical check-ups and physiological training
- Support other services and ATLA





# 3-5 Organization of the Koku-Jieitai (Air Materiel Command)

**Commander, Air Materiel Command**

**HQs, Air Materiel Command (Jujo)**

Planning, arrangement and management for each depot

## 2nd Air Depot (Gifu)

- Store and maintain aircraft
- Procure, store, supply and maintain aircraft parts and engines as well as research and study



## 3rd Air Depot (Iruma)

- Procure, store, supply, maintain equipment for communications electronics, photo and weather services as well as research and study



## 4th Air Depot (Iruma)

- Procure, store, supply, maintain firearms, ammunition, targeting, and towing equipment as well as research
- Procure, store, supply, maintain necessities, vehicles, support equipment for aircraft, chemical and facility equipment as well as research



Note: Broken line shows it is under the command and control of Commander, Air Materiel Command

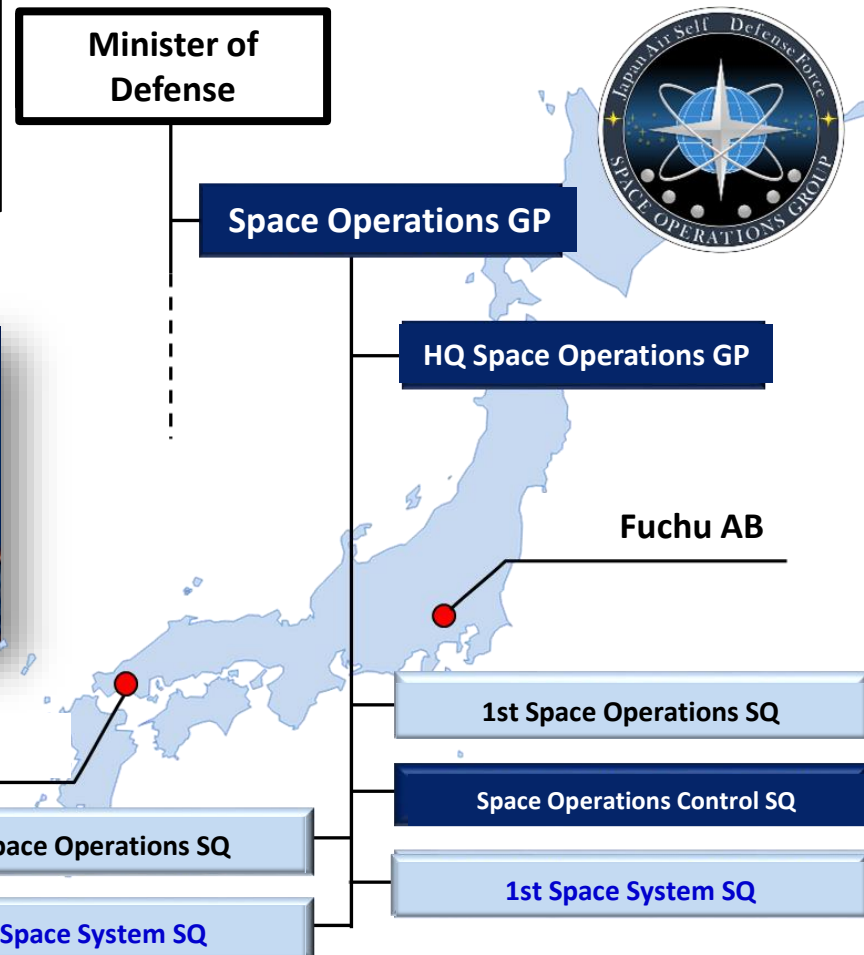


# 3-6 Organization of the Koku-Jieitai (Space Operations Group)

【Defense Buildup Plan (December 16, 2022)】

- Establish new space unit commanded by Flag officer
- Rename JASDF to Japan Air and Space Self-Defense Force
- Collaborate with civilian space industry to accelerate the capability development

- Mar 2024 Space Operations GP Reorganized
- Mar 2023 Space Operations GP Reorganized
- Mar 2022 Space Operations GP Stood-up
- Mar 2021 Space Domain Section in ASO stood-up
- May 2020 Space Operations SQ Stood-up



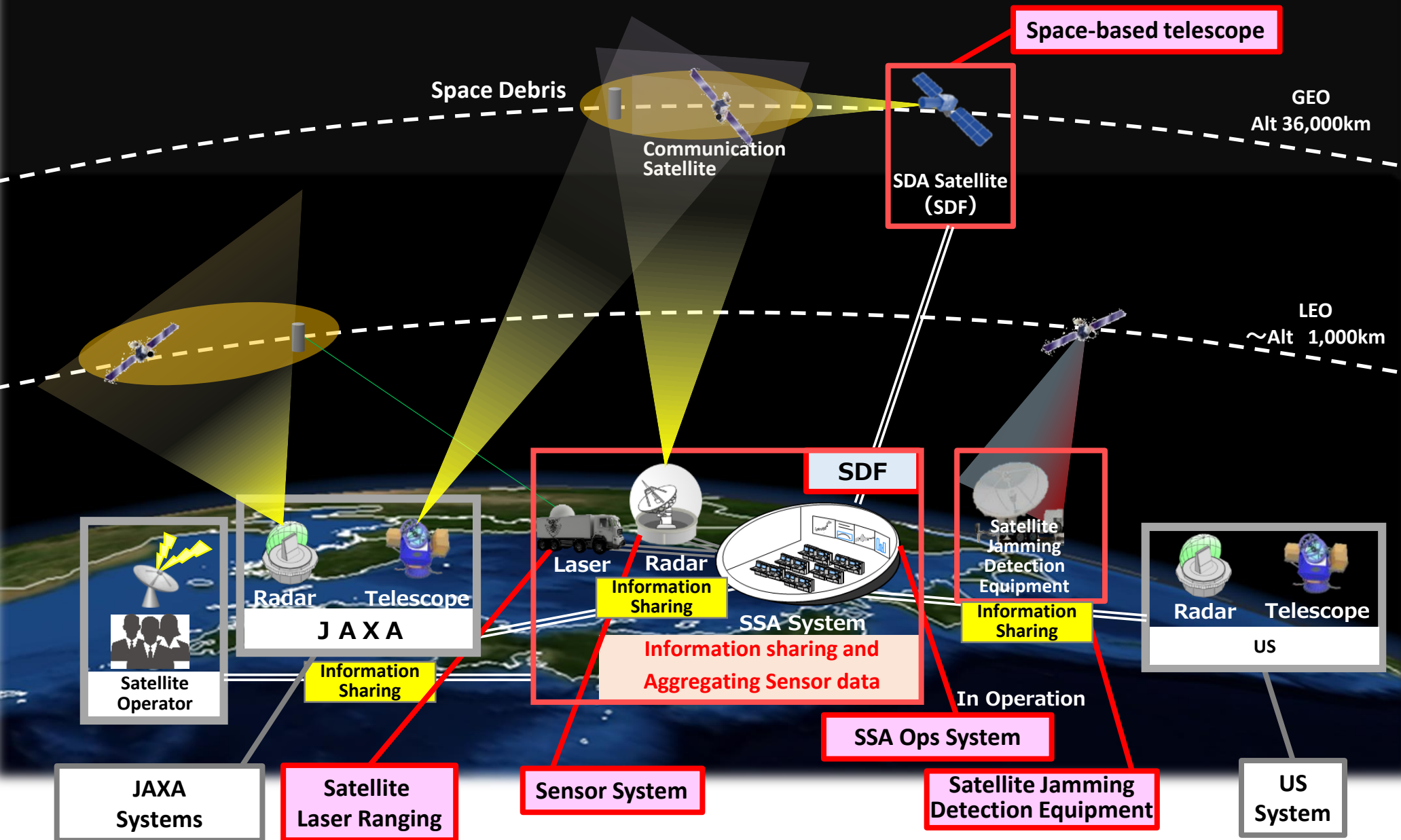
【National Defense Program Guidelines since 2019】

Koku-Jieitai will possess space specialized unit

200 personnel in total as of Mar 2024



# Posture Development of Koku-Jieitai in Space Domain





# 4-1-1 Cooperation with ally and like-minded countries

## Koku-Jieitai's objective of Defense Cooperation/Exchanges

### ● Free and Open Indo-Pacific (FOIP)

- The vision to enhance connectivity between Asia and Africa through Free and Open Indo-Pacific and promote stability and prosperity in the region

### ● Three Strategic Documents

- Strengthen Japan-US alliance
- Maintain and develop the free and open international order and deepening cooperation with allies and like-minded countries

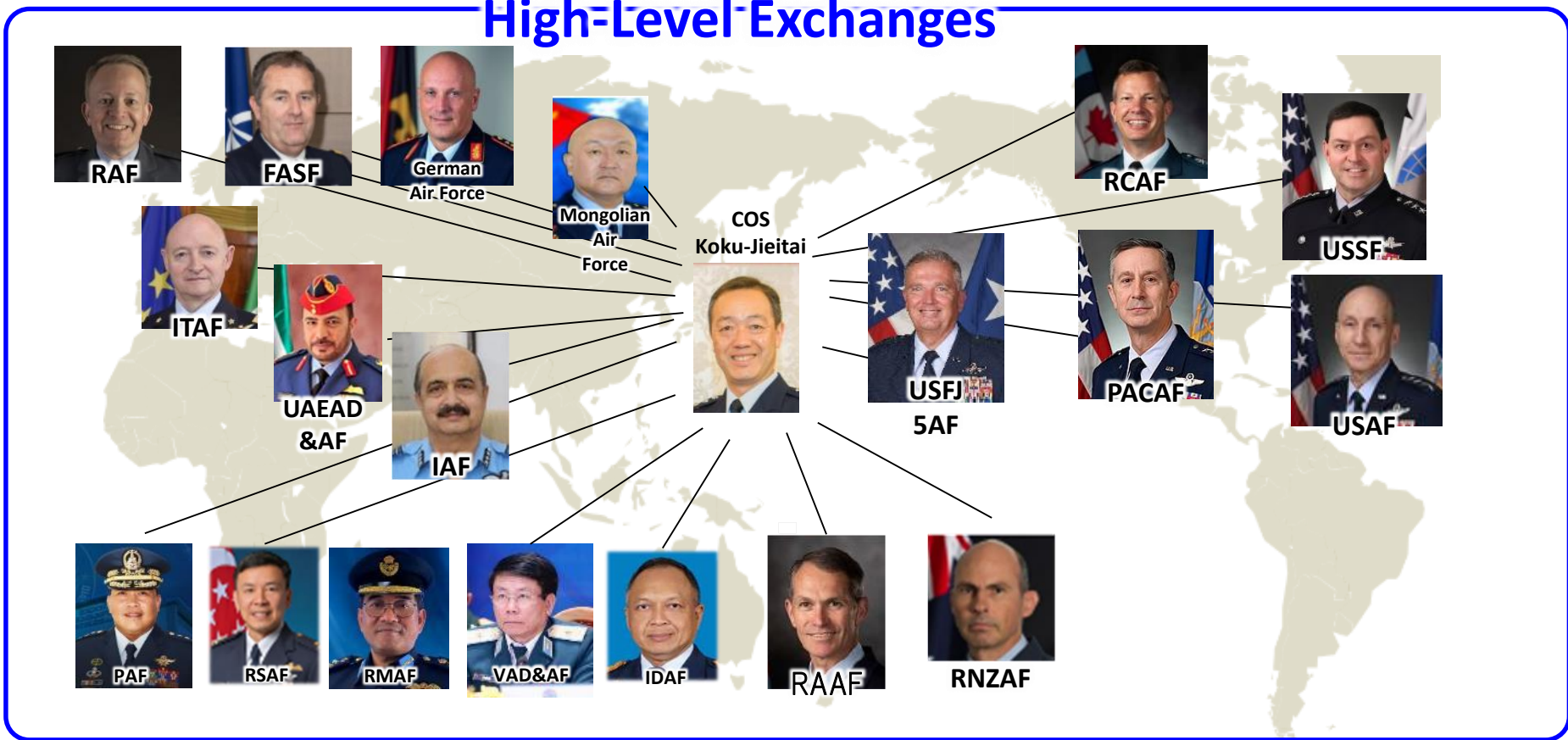
## Koku-Jieitai's efforts on Defense Cooperation/Exchanges

In order to contribute to “Free and Open Indo-Pacific”, Koku-Jieitai proactively promote the defense cooperation and exchanges such as **high-level exchanges, working-level engagements and joint trainings** utilizing the **bilateral and multilateral frameworks**.



# 4 -1-2 Cooperation with ally and like-minded countries

## High-Level Exchanges



## Unit-to-Unit

### Working-Level Exchanges



Japan-Australia Staff conference



Japan-UK Fighter unit exchange

## Bilateral/Multilateral Training



Mobility Guardian 23



Japan-US-ROK Trilateral training



# 4-2-1 Efforts to strengthen Japan-U.S. Alliance

- **The Japan-U.S. Alliance with the Japan-US security arrangements as its core** greatly contribute to the peace, stability and prosperity not only in Japan but also in the Indo-Pacific region and the international community
- **To strengthen the deterrence and response capabilities**, we are committed to deepening **mutual understanding and communication** daily and **conducting bilateral talks and exercises on various specialties and levels** to enhance interoperability

## Strategic

Align strategies through high-level engagements



Japan-US Defense Ministerial Meeting



Japan-US Joint Chief of Staff



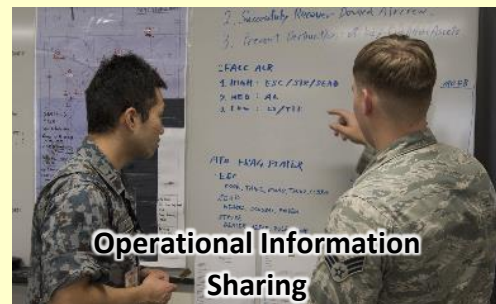
USSF Chief of Space Operations

## Operational

Deepen cooperation in operational level



Bilateral Information Analysis Cell



Operational Information Sharing



French Multilateral Space Exercise (AsterX)

## Tactical

Enhance tactical interoperability through bilateral/multilateral trainings



Red Flag Alaska



Cope North



Global Sentinel (SSA multilateral tabletop exercise)



# 4-2-2 Efforts to strengthen Japan-US Alliance



USSF CSO's Travel to Japan (September 2023 )



5AF/CC at MOD (August 2023)



Silver Flag, Andersen AFB (August 2023 )



Northern Edge, Iwo To AB (July 2023)



## ② Joint Training/Exercises with Like-minded Countries (1/6)

- Under the vision of “Free and Open Indo-Pacific”, we **strengthen cooperation with states of Indo-Pacific and countries which are enhancing their involvement in this region** while utilizing air defense capabilities
- Beginning with the Japan-UK bilateral exercise in 2016, we have conducted joint exercises with European countries in order to promote mutual understanding and enhance tactical skills
- In Aug 2023, we deployed F-35 to Australia, and it was **the first application of Japan-Australia Reciprocal Access Agreement(RAA)**

EF-2000(German Air Force)



RAFALE(FASF)



Su-30MKI(IAF)



F-35A(ItAF)



F-35A(RAAF)



Oct 2016  
Japan-UK Bilateral Exercise in Japan



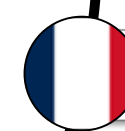
Sep 2022  
Japan-Germany Bilateral Exercise in Japan



Nov 2022  
Koku-Jieitai's F-15 visited Philippines



Jan 2023  
Japan-India Bilateral Exercise



July 2023  
Japan-France Bilateral Training in Japan



Aug 2023  
Japan-Italy Bilateral Training in Japan



Aug-Sep 2023  
Koku-Jieitai's F-35A deployed Australia





## ② Joint Training/Exercises with Like-minded Countries (2/6)

### Mobility Guardian 23 (Jul 2023) at Komaki AB and US Scott AFB



Tactical Airlift Training



Rapid Deployment Training



Table Top Exercise



Aeromedical Evacuation Training



- **Multilateral Exercise hosted by U.S. Air Force**
- We conducted tactical airlift training, rapid deployment training, aeromedical evacuation training and table top exercise



## ② Joint Training/Exercises with Like-minded Countries (3/6)

### Japan-France Bilateral Exercise in July 2023 at Nyutabaru AB



Aerial Refueling Training



Commemorative Ceremony for  
Japan-France Bilateral Exercise



FASF A330MRTT

- First bilateral exercise with French Air and Space Force in Japan
- Showing engagement to realize "Free and Open Indo-Pacific" by Japan-France air services
- Recently, Japan participated air defense exercises hosted French Air and Space Force as an observer, and space domain exercises



## ② Joint Training/Exercises with Like-minded Countries (4/6)

### August 2023, Japan-Italy Bilateral Exercise (Aug 2023) in Komatsu AB



Joint Press Conference



Welcome Flight



Inspection by Operational Forces Commander



ItAF G550

ItAF F-35A

ItAF KC-767

JASDF F-15J

ItAF C-130

- **First bilateral exercise with Italian Air Force** in Japan
- Showing engagement to realize "Free and Open Indo-Pacific" by Japan-Italy air services
- Develop exchanges at all levels including high-level exchanges, aerial refueling units exchanges, dispatch of pilot students with Italian Air Force, which has many common assets such as F-35 and KC-767



## ② Joint Training/Exercises with Like-minded Countries (5/6)

### F-35A Mobile Deployment Training in U.S. and Australia (Aug 2023) at USAF Andersen Air Force Base to RAAF Base Tindal



Arrived at RAAF Base Tindall



Welcomed by RAAF Commanding Officer

- **First overseas mobile deployment training of F-35A**
- Improving mobile deployment capabilities for rotational deployment to Australia and overseas joint training
- Conducted long range navigation training and aerial refueling training
- Applied the Japan-Australia Reciprocal Access Agreement (RAA) for the first time



## ② Joint Training/Exercises with Like-minded Countries (6/6)

### Bilateral Exercise with RAAF (Bushido Guardian) (Sep 2023) at Komatsu AB



Commemorative Ceremony for RAA



RAAF F-35A

JASDF F-15

JASDF F-35A

RAAF KC-30

PHOTO EX



Signing Ceremony for Sister Squadron

- Second bilateral exercise in Japan since 2019
- Strengthen interoperability between Japan and Australia air services and contribute to realize "Free and Open Indo-Pacific"



### ③ Capacity Building Assistance and Multilateral Defense Cooperation (1/2)

- Conducted **capacity building assistance** for ASEAN member
- 7 fields : international aviation law, aviation meteorology, aviation medicine, flight safety, air rescue, HA/DR and cyber security
- Based on the Vientiane Vision 2.0, Koku-Jieitai conducted “Professional Airmanship Program” with the aim of deepening mutual understanding between Japan-ASEAN air services



Sri Lanka

• Air Rescue



➤ Online discussion in Aug 2022



Vietnam



- Air Rescue
- Cyber Security
- Flight Safety
- IAL
- Aviation Medicine



Thailand

- Flight Safety
- IAL



Flight Safety



ASEAN

▪ HA/DR



Unit Tour at Komaki AB



Seminar



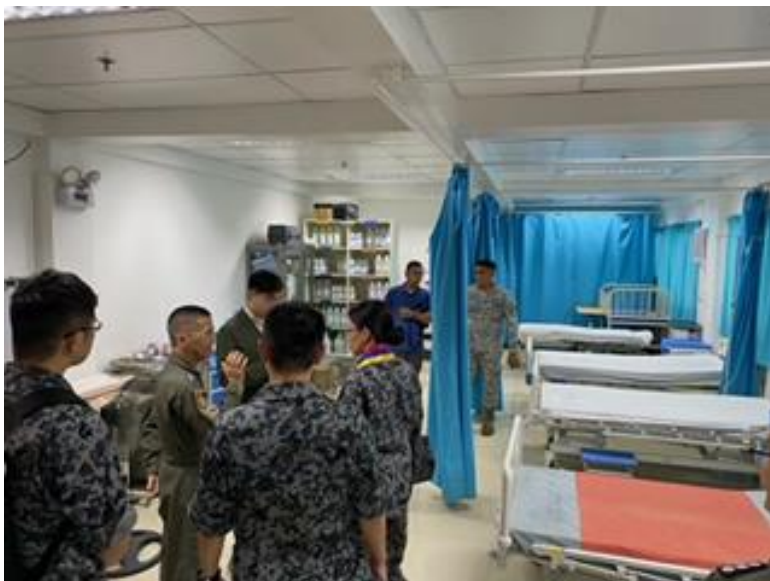
### ③ Capacity Building Assistance and Multilateral Defense Cooperation (2/2)



**Jan 2024, Mongolia (Air Traffic Control)**



**Mar 2023, Vietnam (Air Rescue)**



**Aug 2023, Philippines (Aviation Medicine)**



**Jun 2023, Sri Lanka (Air Rescue)**



# III Future Defense Posture of the Koku-Jieitai

1 National Security Strategy of Japan/National Defense Strategy/  
National Defense Buildup Program

2 Corner Functions for Air Defense Capabilities and Seven Priority Fields

3 Main Program of FY2024





# 1 National Security Strategy of Japan/National Defense Strategy/ National Defense Buildup Program

## System of strategic documents (previous)

### NSS (2013)

Supreme national security policy document (Duration: 2013-2022)

### NDPG (2018)

Basic guidance of development, sustainment and operation of defense capabilities  
Level of defense capability (posture of JSDF)  
(Duration: 2013-2022)

### MDBP (2018)

The limit of total budget and number of buildup assets during FY2018-2022

## System of strategic documents (new)

### NSS

Strategic guidance for Japan's national security areas, including diplomacy, defense, economic security, technology and intelligence  
(Duration: approx. 10 years)

### NDS

Basic policy for Japan's defense objectives, including approaches and means to realize them  
(Duration: approx. 10 years)

**The change to Air and Space Self-Defense Force**

### DBP

Level of Defense Capability to Possess  
(① Posture of FY2027 and around FY 2032, ② Total budget and number of buildup assets during FY2023-2027)

**Will be established as the Air and Space Self-Defense Force commanded by general officer**



# 2 Corner Functions for Air Defense Capabilities and Seven Priority Fields



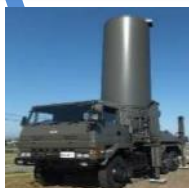
**Command & Control**  
JADGE



**Operational Support**  
Air Transportation, Aerial Refueling,  
Air Rescue



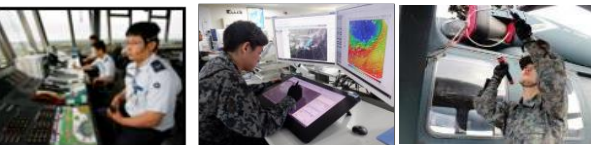
**Sensors**  
Ground and Airborne Radars



**Shooters**  
Fighter, Surface to Air Guided Missile



**Operational Basis**  
MX , CE, ATC, Meteorology



① Stand-off Defense Capabilities

② IAMD Capabilities

③ Unmanned Defense Capabilities

④ Cross Domain Capabilities

⑤ C2/ Intelligence-related Functions

⑥ Mobile Deployment Capabilities / Civil Protection

⑦ Sustainability / Resiliency



# 3 ① Stand-off Defense Capabilities

## Acquisition of Stand-off Missiles

➤ JSM※<sup>1</sup> (conceptual image)



➤ JASSM※<sup>2</sup> (conceptual image)



## Acquisition and Upgrade of Launch Platform

➤ F-35A Improvement  
(conceptual image)



➤ F-15 Improvement  
(conceptual image)



➤ F-2 Improvement



※<sup>1</sup> JSM: Joint Strike Missile

※<sup>2</sup> JASSM: Joint Air-to-Surface Stand-Off Missile



# 3 ② Integrated Air and Missile Defense Capabilities

## Reinforce Warning & Control Capabilities

- Add Functions for FPS-5 and FPS-7
- Convert of FPS-7
- Upgrade JADGE
- Procure Mobile Warning & Control Radars (TPS-102A)



FPS-5



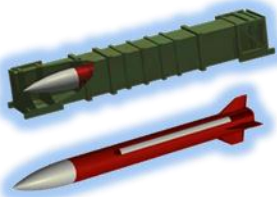
FPS-7



TPS-102A

## Maintenance of Interceptor Guided Missile

- Re-guarantee PAC-2GEM and PAC3
- Acquire of Surface to Air Guided Missile Unit for Base Defense



PAC-2GEM (conceptual image)



PAC-3 (conceptual image)

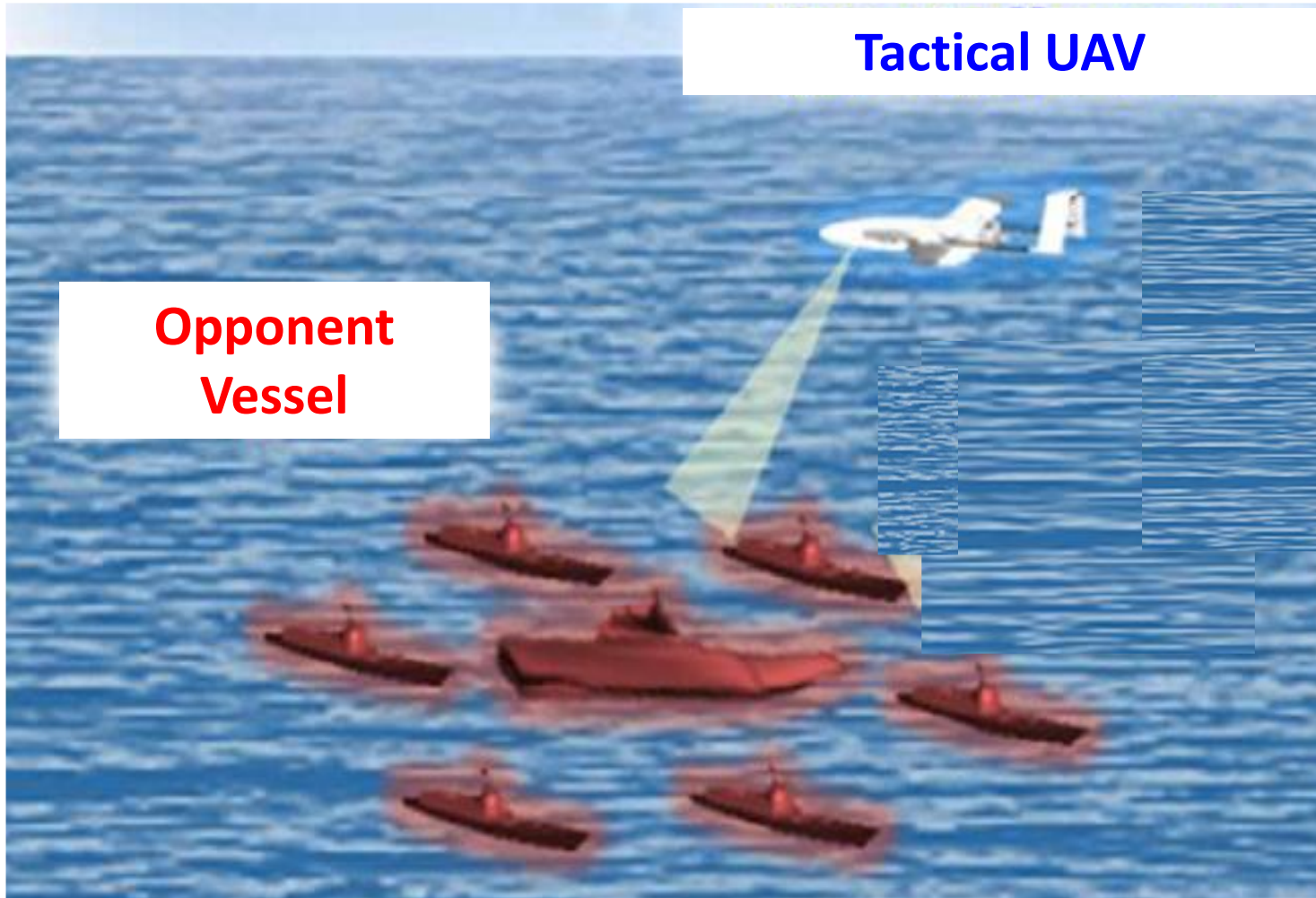


Surface to Air Guided Missile Unit



### 3 ③ *Unmanned Defense Capabilities*

#### Research Toward Operation of Tactical UAV



**Tactical UAV  
(conceptual image)**



## 3 ④ Cross Domain Capabilities (1/4)

### Reinforcement of Air-Domain capabilities

➤ Procure F-35A



➤ Procure F-35B (conceptual image)



➤ Upgraded F-15 (conceptual image)



➤ Upgraded F-2



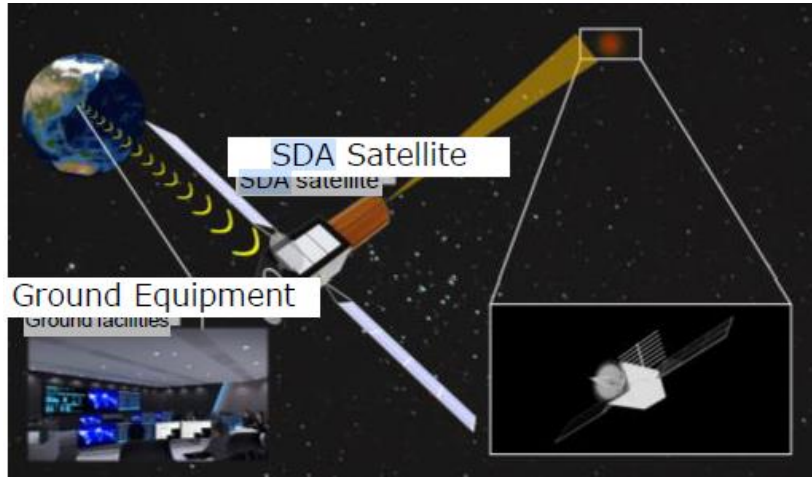


# 3 ④ Cross Domain Capabilities (2/4)

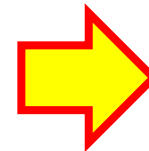
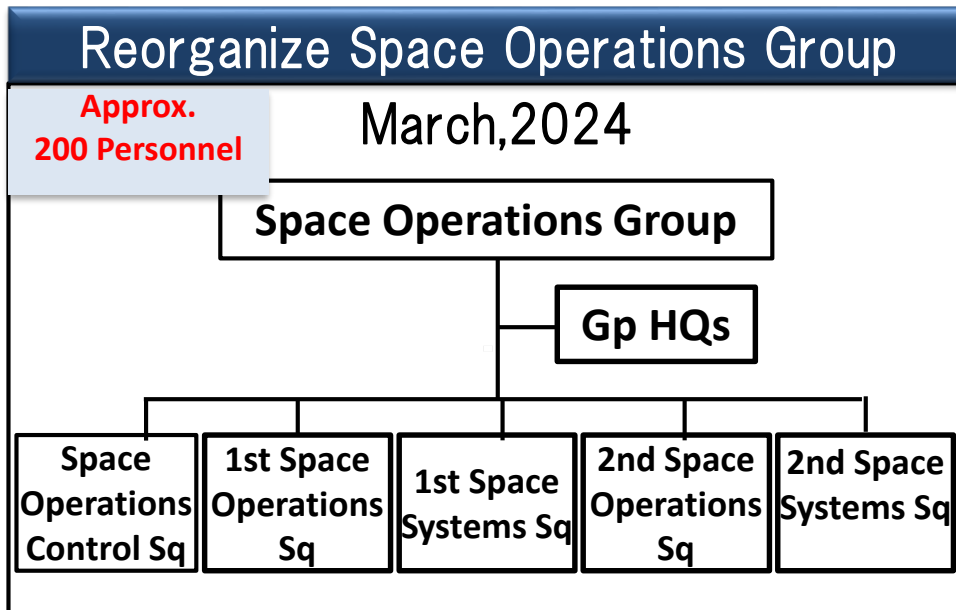
## Strengthening Capabilities in Space Domain

➤ SDA \*Satellite (conceptual image)

\*SDA (Space Domain Awareness)



➤ Develop Space Operations C2 system (conceptual image)



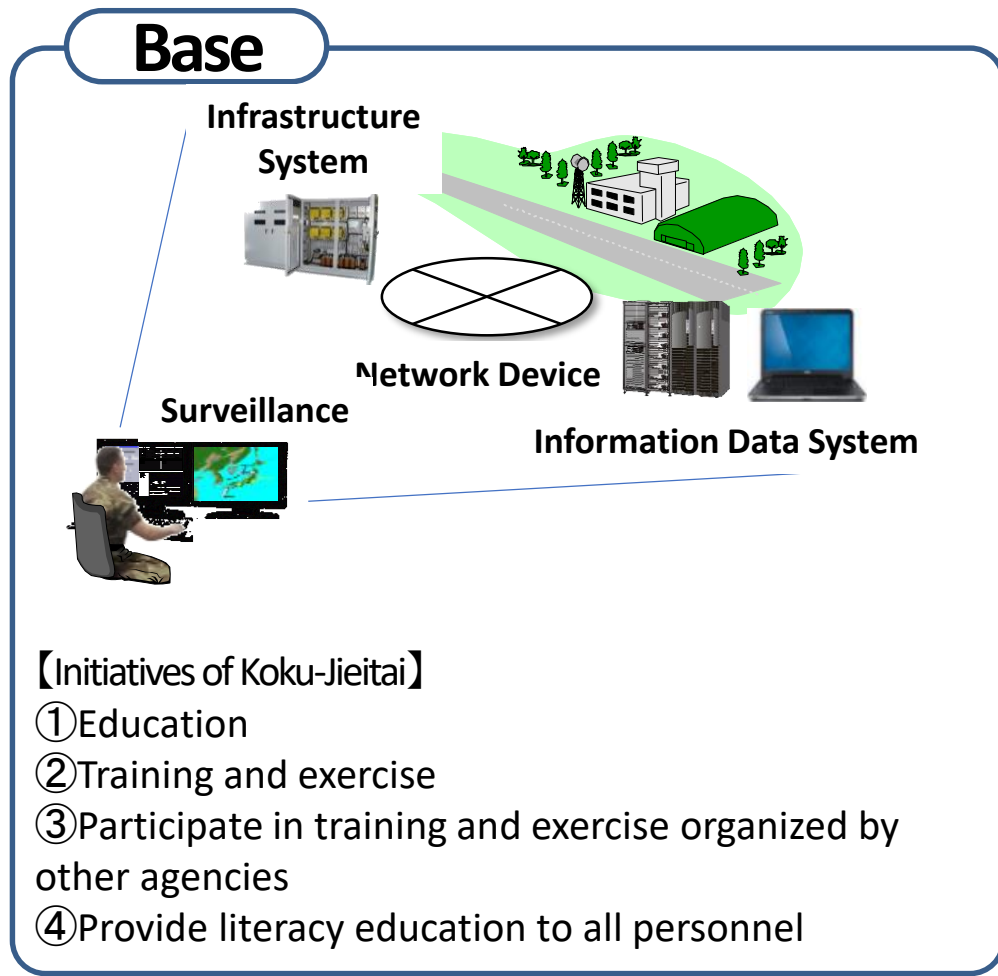
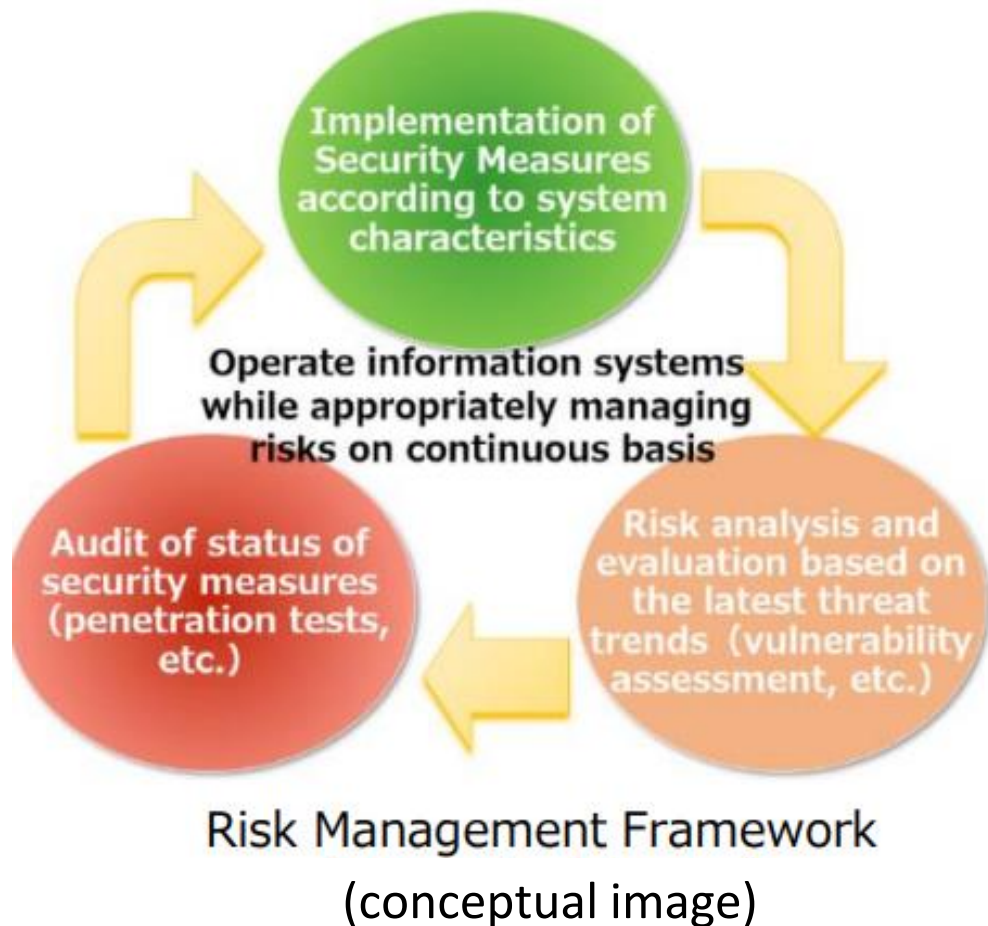
**Approx. 300 Personnel**



# 3 ④ Cross Domain Capabilities (3/4)

## Reinforce Capabilities in Cyber Domain

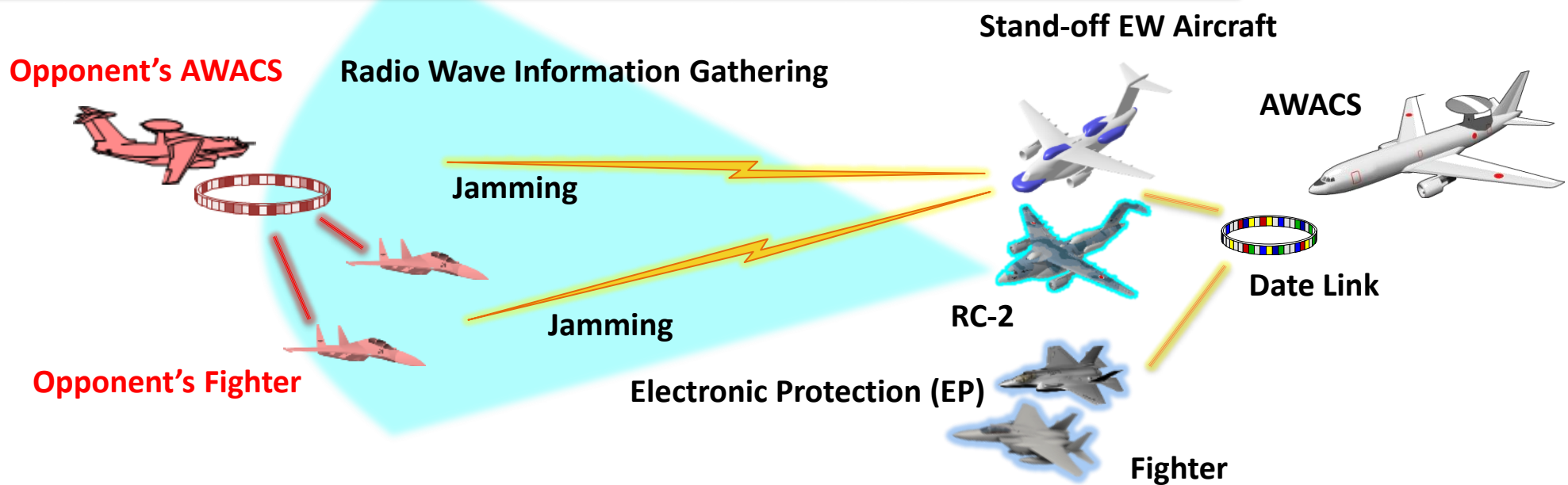
- Risk Management Framework (RMF)
- Educate Specialized Personnel in Cyber Security





# 3 ④ Cross Domain Capabilities (4/4)

## Strengthen Capabilities in Electromagnetic Domain



- Enhance electronic warfare support
  - Acquire radio wave information gathering aircraft (RC-2)
- Strengthen electronic protection capabilities
  - Procure F-35A and F-35B
  - Upgrade F-15 and F-2
- Reinforce electronic attack capabilities
  - Develop stand-off EW aircraft (FY 2020 to 2026)





# 3 ⑤ C2 and Intelligence-related Functions

## Increase the Number of Defense Attachés

- Dispatch defense attachés to 20 embassies and 1 delegation



## Maintain Equipment

- Mobile electronic evaluation unit (conceptual image)



Antenna (high frequency)



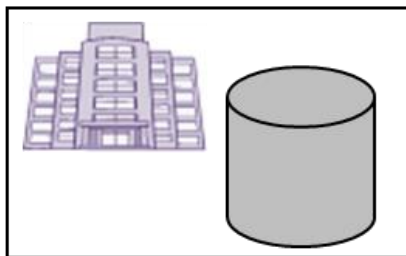
Antenna (low frequency)



Communication control

## Maintain Information Systems

- Develop JASDF Cloud



Database



3 Geospatial information



Three dimension data



Analysis of impact on destruction

## JASDF Cloud (Target Information Service)

(conceptual image)



### 3 ⑥ Mobile deployment capabilities / Civil protection

#### Increase in Transport Aircraft

- procure CH-47J

#### Utilize Civilian Airports



CH-47J

- Enhancing effectiveness of mobile deployment capabilities and civil protection
  - Establish a framework that enable SDF to use civilian airport smoothly in peace time
  - Develop public infrastructure to contribute to smooth operations by

Example of Use of Civilian Airports (SDF JX, Nov 2023)



F2 Deploy to Okayama Airport



F2 Deploy to Oita Airport



# 3 ⑦ Sustainability / Resiliency (1/2)

## Securing ammunitions

- Mid-range air-to-air missile
  - AIM-120 (F-35A/B and upgraded F-15)
  - AAM-4B (F-2 and F-15)
- air-to-ship missile
  - ASM-3A (F-2)



AIM-120 (conceptual image)



AAM-4B (conceptual image)



ASM-3A (conceptual image)

## Maintenance of equipment

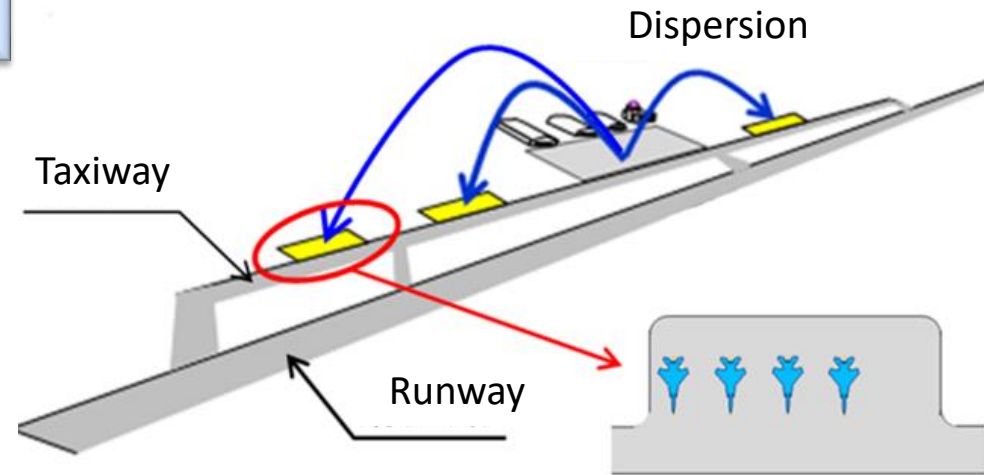




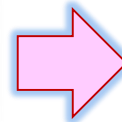
## 3 ⑦ Sustainability / Resiliency (2/2)

### Improving the resiliency of facilities

- Optimization
- Disaster Prevention
- Make HQs underground
- Develop facilities for new equipment and new units



Dispersion pads (conceptual image)



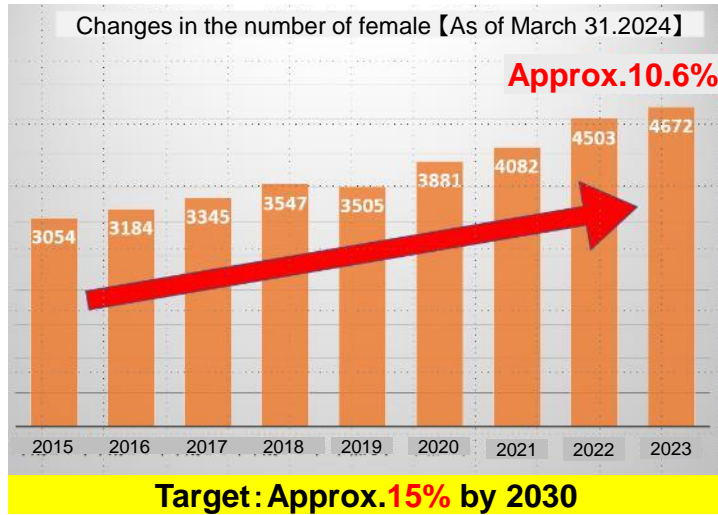
Renewal of Aging Facilities (conceptual image)



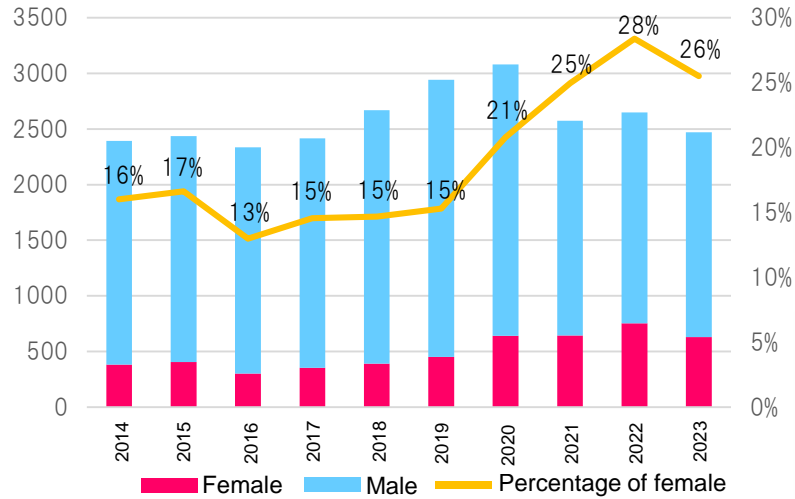
# 3 Main Projects in Fiscal 2024 Support for Defense Capability (1/2)

## Reinforce Human Resource

### ➤ Promote Women's Empowerment

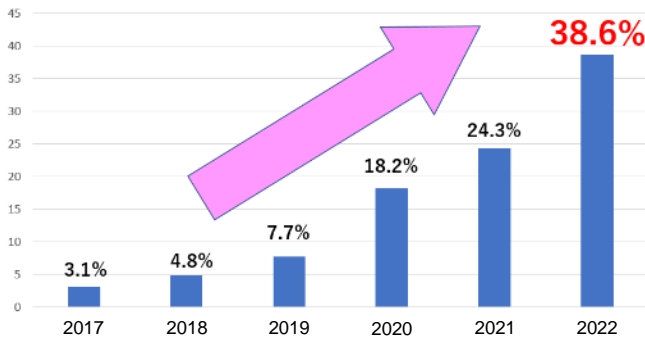


### Percentage of new enlistees



### ➤ Support for Work-life Balance

#### Percentage of male taking childcare leave



**Overall government target: 30% by 2025**  
**Achieved as Air Self-Defense Force**



Childcare facility in MOD  
(J Kids Sky Iruma)



Support for an emergency work



# 3 Main Projects in Fiscal 2024

## Elements that Support Defense Capability (2/2)

### Strengthening of Health Care Function

➤ Strengthen Front-Line Rescue Capability



Training of front-line emergency medical personnel

➤ Strengthen Capability to Rescue Injured Personnel

- Acquire equipment for telemedicine support
- Acquire medical equipment for air transportation



Aeromedical Transport Training



Air-to-air rescue training





### 3 Main Projects in Fiscal 2024 Strengthening Security Cooperation

#### Participation in the Japan-U.S. Bilateral Exercise

- CN : Japan-US-Australia Exercise (Cope North) 【Guam, U.S.】
- PB : Pitch·Black 【RAAF Darwin Base, AUS】



Japan-US-Australia Exercise (CN24)



Pitch·Black (PB22)

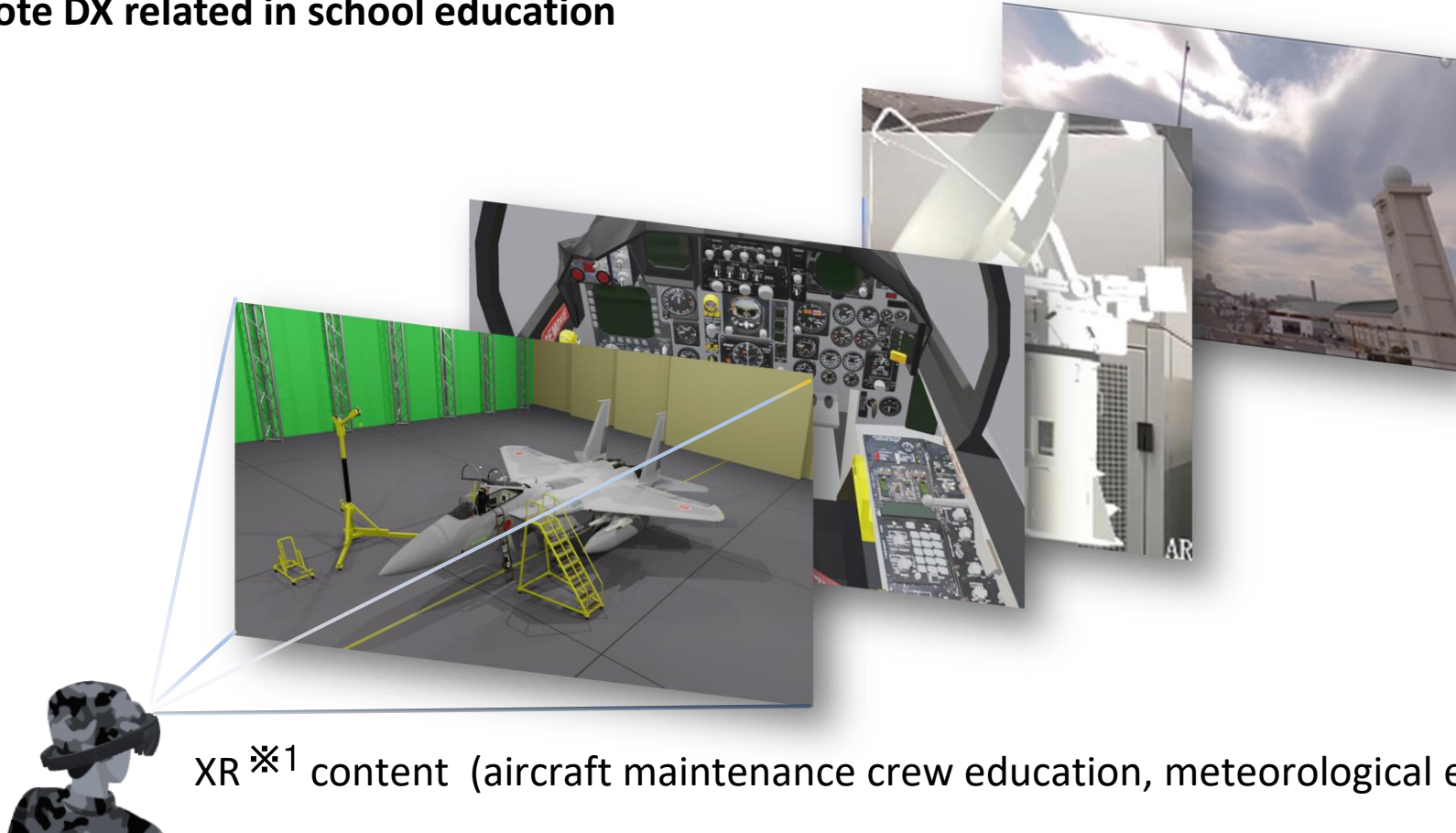


### 3 Main Projects in Fiscal 2024

## New Initiatives for Early Procurement of Defense Equipment

### Development of Systems Related to DX※1 in Education

- Promote DX related in school education



XR※1 content (aircraft maintenance crew education, meteorological education)

Wear goggles and learn about the structure, operation and maintenance procedure (conceptual image)

※1 DX: Digital Transformation

※2 XR: Cross reality, VR (Virtual Reality), AR (Augmented Reality) and MR (Mixed Reality)



### 3 Main Projects in Fiscal 2024 Efforts for Optimization

#### Bulk procurement under long-term contracts

- Acquisition of transport helicopter (CH-47J)  
Acquisition of five aircraft in eight countries (estimated reduction: 8,700,000,000 yen)
- PAC-2GEM Re-guarantee  
The number of rounds required over a period of several years is re-guaranteed by six countries (estimated reduction: 30,700,000,000 yen)
- F110 engine maintenance parts comprehensive agreement (for F-2)  
Comprehensive contract with lead time guarantee\* based on supply and demand forecast (estimated reduction : 10,800,000,000 yen)

Note : Figures are based on contracts



CH-47J Transport Helicopter

#### Bulk procurement other than long-term contracts

- Acquisition of EGI for F-15 Capacity Building (Embedded INS/GPS)  
Acquisition of all spare parts
- Reassurance for PAC-3 missiles  
Acquisition of re-guarantee for required number of bullets



F110 Engine (for F-2)



PAC-3 (conceptual image)

\*Lead time guarantee: a period of acquisition for parts delivery is set in advance, and the supply of parts within the period is guaranteed.



## IV Topics

- 1 Initiative in the Space Domain
- 2 Initiative in FX
- 3 Reconnaissance Aviation Unit (RQ-4B)
- 4 Collaboration with Local Communities
- 5 Efforts to Prevent Harassment
- 6 Efforts to Secure Human Resources
- 7 Efforts to Full Automation / Labor-saving / Optimization





# Cooperation with Various Agencies (JAXA, Allies and Like-minded Countries)

○ Dec 2023~

**Participate in CSpO Initiative**

\*CSpO: Combined Space Operations Initiative

○ May 2023~

**Dispatch Koku-Jieitai personnel to USSPACECOM HQs (Peterson SFB)**



**【Defense Buildup Program (FY2023~FY2027)】**

**Strengthen cooperation with relevant organizations such as JAXA, allies and like-minded countries**

○ Jun 2022~

**Dispatch additional Koku-Jieitai personnel to JAXA**

○ Oct 2020~

**Dispatch Koku-Jieitai personnel to USSPACECOM**

**Multinational Space Collaboration Cell (Vandenberg SFB)**



**【Med-term Defense Program (FY2019~FY2023)】**

**Cooperation with relevant agencies such as JAXA and relevant countries**

○ 2017~

**Dispatch Koku-Jieitai personnel to JAXA**





# Cooperation with Various Agencies (Private Companies)

## Provide SSA Information to Commercial Satellite Operators

- Since March 2023, Koku-Jieitai has been providing SSA information to commercial satellite operators.
- Provide orbit information and analysis information on other satellites and space debris

## Space Collaboration and Innovation Office

- Since October 2023, we rented a small office in Tokyo to cooperate with civilian agencies
- Absorb knowledge of the private sector with high-level space-related technology, as well as synergistically enhance Japan's space capabilities by promoting public-private cooperation.





## 2 Initiative in FX

# Global Combat Air Programme (GCAP)

- Start development of FX in Oct 2020 to deploy it around 2035 under the policy of “Japan-led development with a view to international cooperation”
- Conduct joint analysis with the UK and Italy about standardization of aircraft
- Joint development by Japan, Italy and UK was announced on Dec 9, 2022 in Joint Leaders’ Statement



(conceptual image)



## 2 Initiative in FX

### Trilateral Defense Ministerial Meeting (Mar 16, 2023)

- Defense Minister Hamada emphasized the significance of developing state-of-the-art fighters by bringing together the superior technologies of the three countries and expressed strong resolve to the success of this project
- Secretary Wallance and Minister Crosetto also expressed their commitments toward the success of this programme and their unswerving willingness to overcome any challenges through unified trilateral collaboration





## 2 Initiative in FX

### Trilateral Defense Ministerial Meeting (Dec 14, 2023)

- Signed the Convention on the Establishment of the GCAP International Government Organization (GICO)
- Confirmed the HQs of the programme will be located in the UK, the first General Director will be Japanese, and the first Chief Executive Officer will be Italian





## 2 Initiative in FX

- Koku-Jieitai will closely collaborate with ATLA, and cooperate with the UK and Italy to reflect user needs





### 3 Reconnaissance Aviation Unit (RQ-4B)

- Newly Organize Reconnaissance Group in Dec 2022
- Third RQ-4B (Global Hawk) arrived Misawa AB in Jun 2023
- Educate pilots



First RQ-4B arrived Misawa AB



First flight (Dec 2022)



Third RQ-4B arrived Misawa AB  
(Jun 2023)



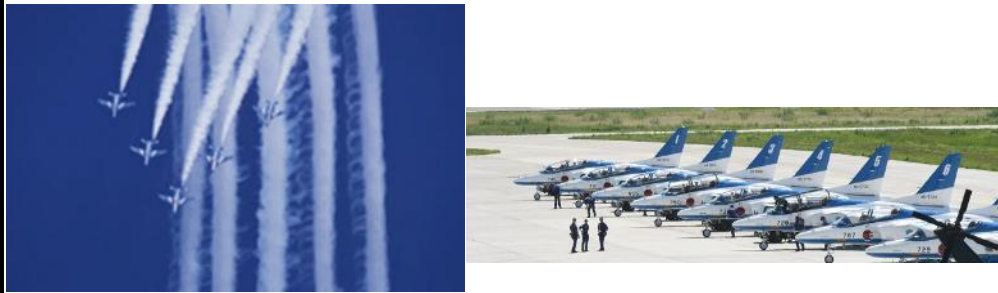
Education (Simulator Training)

General Characteristics	
Length × Width	1 5 m × 4 0 m
Weight (Payload)	1 4 . 6 t ( 1 . 3 t )
Speed	5 7 0 km / h
Endurance	3 6 h
Veiling	6 0 , 0 0 0 f t



# 4 Collaboration with Local Communities

## Demonstration flight of Blue Impulse



- **Deepen trust** and contribute to **PR activities** through demonstration flights of Blue Impulse

## Participation in disaster drills



- **Build disaster management framework with local municipalities** and **contribute to improving disaster response capabilities** through disaster drills

## Mobile Deployment Training by Air Defense Missile Unit



- Contribute to **ensuring Japanese people's security and safety** by **enhancing tactical skills** to respond to ballistic missiles and demonstrating **our readiness**.

## Band Performances



- Build good relations with local communities by band music performances at ceremonies of MOD and **events throughout Japan**, and contributed to **PR activities**



## 5 Efforts to Prevent Harassment

➤ The MOD takes the recommendations of the Panel of Eminent Persons seriously and proactively work to **build an environment that does not allow harassment at all.**

Message from the Chief of Staff

"Harassment is an act that destroys mutual trust among SDF personnel and shakes their morale, and must never be allowed to occur."

"Shout only when greeting, issuing and emergency!"

(to prevent harassment)

"Good manners even between good friends."

(to prevent sexual harassment)



JASDF's activity during Harassment Prevention Month  
(Jan 4<sup>th</sup> 2024 ~ Feb 3<sup>rd</sup> 2024)

- Raising awareness **about Life & Work Engagement**
- Establish accurate knowledge of harassment response
- All SDF personnel wrote **the Statement of Prevention of Harassment with handwriting**

### ハラスメント防止に関する宣言書

私は、ハラスメントが、隊員の尊厳や人格を傷つけ、隊員相互の信頼関係を欠損させ、精強性を揺るがす、決してあってはならない行為であることを認識し、次のことを宣言します。

- 1 ハラスメントの定義を正しく理解します。
- 2 大切な仲間を尊重し、絶対にハラスメントを起しません。
- 3 ハラスメントを目撃した場合は、決して見逃しません。
- 4 被害に遭った隊員には、しっかりと寄り添います。

**Create and establish an environment that does not allow harassment**



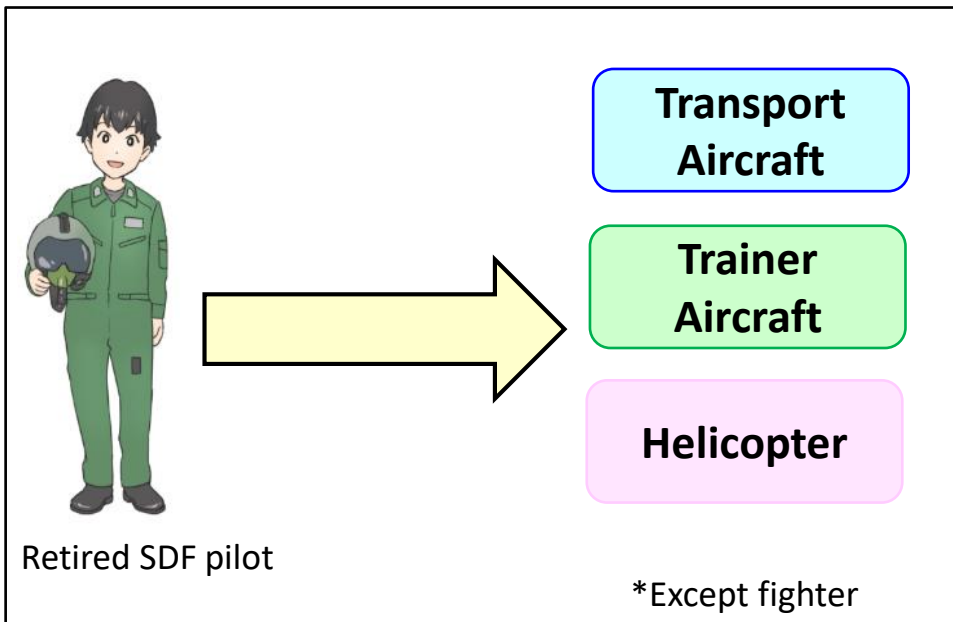
# 6 Efforts to Secure Human Resources

**【Re-appointment System of retired SDF Pilots】**  
**Started from FY2023**

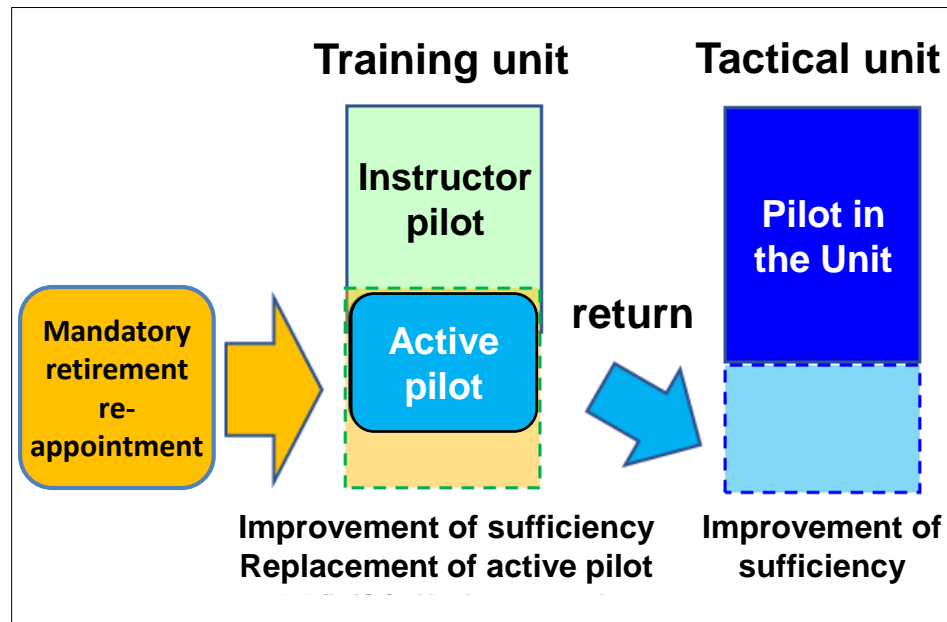
Re-appointment of retired SDF instructor pilot



Re-appointment of retired SDF pilot



Re-appointment of retired SDF instructor pilot





# 7 Efforts to Full Automation / Labor-saving / Optimization

## Outsourced Maintenance of T-4



## Remote MX Support Using VR Technology



## Integrated Information Systems Using Cloud technology



## Utilizing XR for Education





# 7 Efforts to Full Automation / Labor-saving / Optimization

## ○ Airport without MX Basis



## ○ Mobile Deployment



## ○ Radar Site (remote islands)



Remote Location



Smart Glass



Base Unit



Repair and MX Company

Remote Assistance

Sustainable Logistics



# SMART JASDF



航空自衛隊

【HP】 <https://www.mod.go.jp/asdf/>

【X(旧Twitter)】 [https://twitter.com/JASDF\\_PA0](https://twitter.com/JASDF_PA0)

【Facebook】 <https://www.facebook.com/jasdf.pao/>

【Instagram】 [https://instagram.com/jasdf\\_pao](https://instagram.com/jasdf_pao)

【YouTube】 <https://www.youtube.com/user/JASDFchannel>