



Koku-Jieitai

Japan Air Self-Defense Force

Overview of Koku-Jieitai 2025



Air Staff Office



Koku-Jieitai; The Only Organization to defense Sky and Space

Domains that Koku-Jieitai defends



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





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I

Security Environment Surrounding Japan

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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.



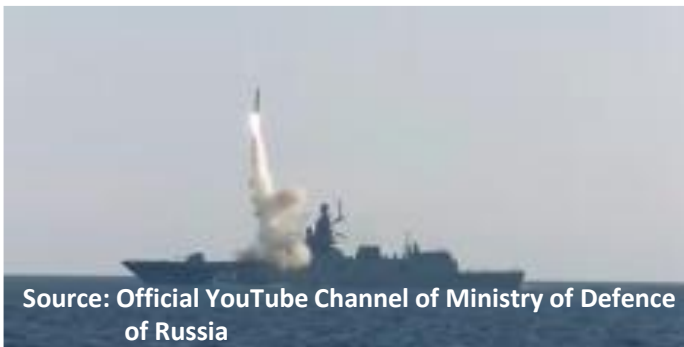
Source: Presidential Executive Office of Russia
Signing Ceremony to Annex four Ukrainian Regions



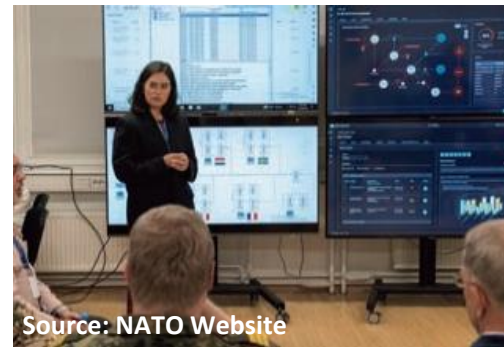
Source: Official YouTube Channel of Ministry of Defence of Russia
Russia Hypersonic Glide Vehicle Avangard



Source: Korean Central News Agency
General Satellite Control Center in Pyongyang



Source: Official YouTube Channel of Ministry of Defence of Russia
Russia Hypersonic Cruise Missile Zircon



Source: NATO Website
NATO Cyber Exercise



1 Features of Current Security Environment

Demonstration of force by China and Russia

Russia continuing active actions

Deployed new equipment also in the Far East region

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

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



Joint Navigation



Joint Flight

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



China's attempt for unilateral changes to 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.



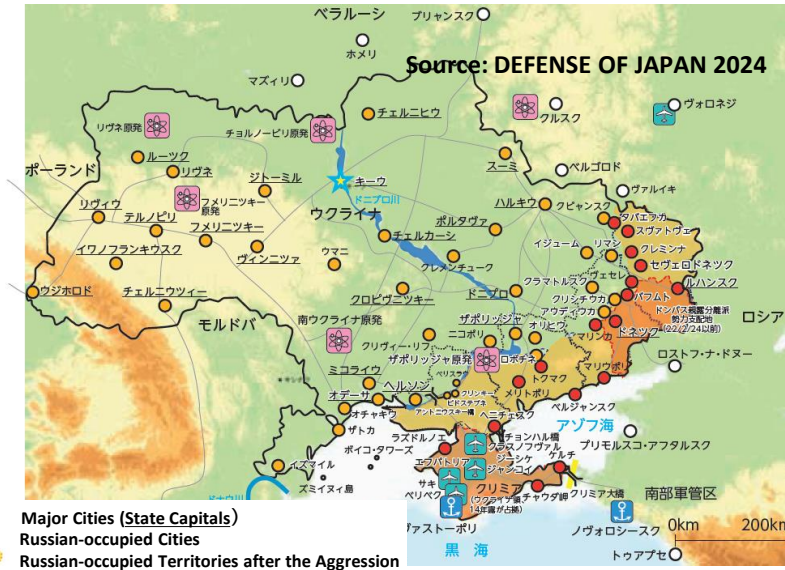
Chinese military reconnaissance UAV flying between the main island of Okinawa and Miyakojima strait (Jan 2023)



1 Features of Current Security Environment

Russia's aggression against Ukraine

- On 24 FEB 2022, Russia began the full aggression against Ukraine.
- **Serious violation of international law** and the UN Charter, which prohibit the use of force
- Unilateral change of the status quo by force **is an act that shakes the very foundation of the international order, including Asia.**
- If such Russia's aggression is tolerated, it could send a message with the wrong implication that unilateral changes to the status quo by force are acceptable in other regions, including Asia.



Situation in the Gaza Strip

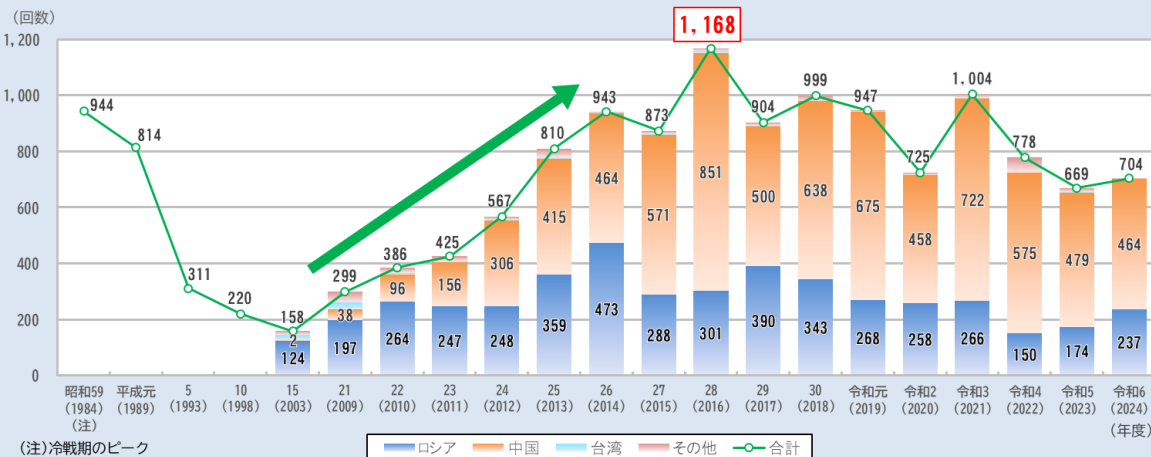
- Hamas and other Palestinian militants launched thousands of rockets from the Gaza Strip to Israel on 7 OCT 2023. In response, Israel Defense Forces began air strikes on Gaza Strip on the same day.
- Attacks on Israel by Hezbollah, a pro-Iranian armed group in Lebanon occur frequently.
- The agreement on the release of hostages and ceasefire was reached on 15 JAN 2025.



2 Sky and Space Surrounding Japan: Scrambles

- The number of scrambles for FY 2024 is **704 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



Chinese Aircraft

Fighter

J-16



(30 NOV 2024)

SIGINT aircraft

Y-9



(30 NOV 2024)

UAV

TB-001



(3 NOV 2024)

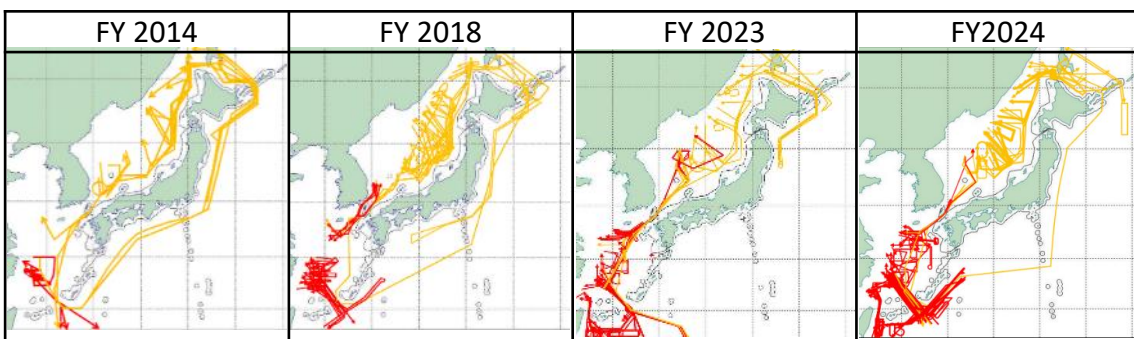
Bomber

H-6



(29 NOV 2024)

Flight Patterns of Russian and Chinese Aircraft to Which Scrambles Responded



→ : Chinese aircraft → : Russian aircraft

Source: Joint Staff Office Website

Russian Aircraft

Fighter

Su-35



(29 NOV 2024)

SIGINT aircraft

Il-20



(21 NOV 2024)

Bomber

Tu-95

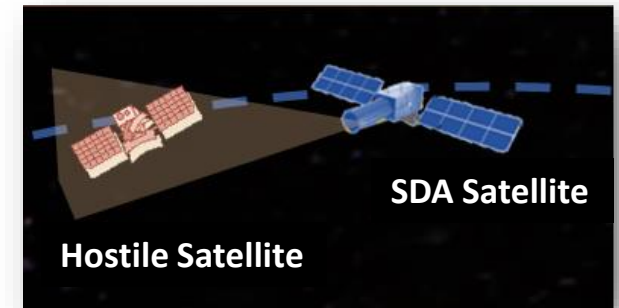
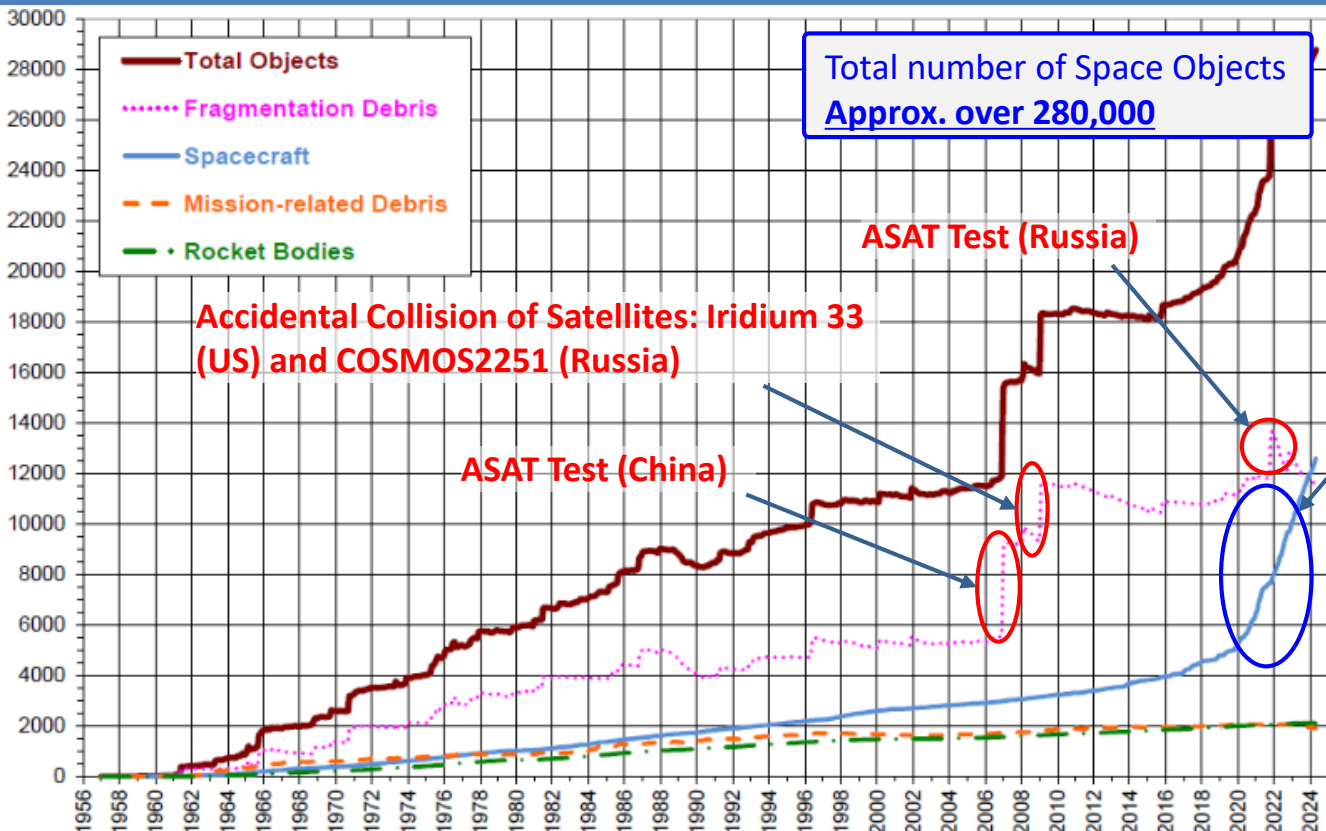


(30 NOV 2024)



2 Sky and Space Surrounding Japan: Situation in Space

- Space systems are **important infrastructure** for Japan, and essential for **maximizing capabilities of C2 and equipment**
- Major countries have enhanced capabilities of ISR, Early Warning, Positioning, Navigation and Timing (PNT) and Communications satellites and tried to launch them to strengthen C4ISR functions.
- On the other hand, **ASAT** have been developed to hinder other countries' use of space, and numerous space debris was created by ASAT tests by China and Russia.
- Cyber attacks on space systems **increase the threat to the stable use of space.**
- Countries focus on **SDA** to monitor threats to space assets.



Commercial Satellite Constellations

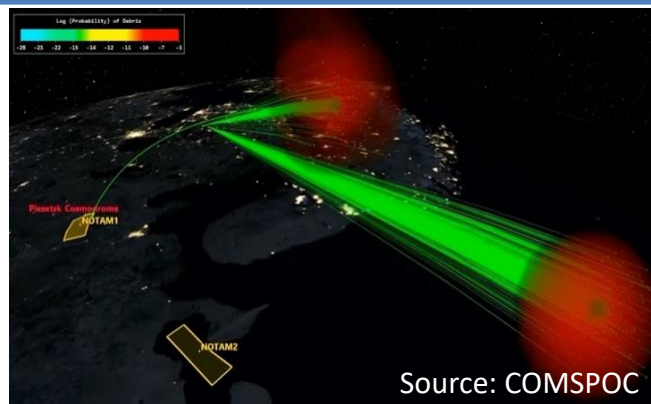
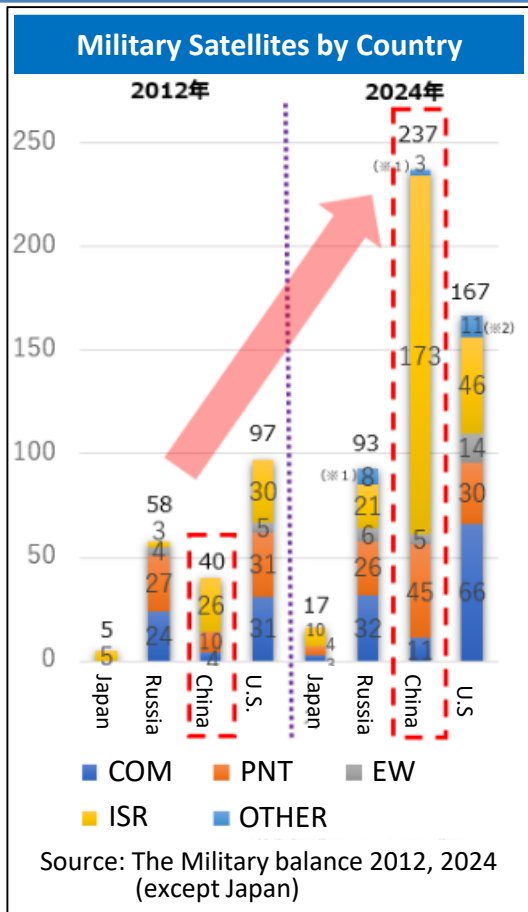
- C4ISR: Command, Control, Communication, Computer, Intelligence, Surveillance and Reconnaissance
- ASAT: Anti-Satellite Weapon
- SDA: Space Domain Awareness

Source:
NASA: Orbital Debris Quarterly News Volume28, Issue3

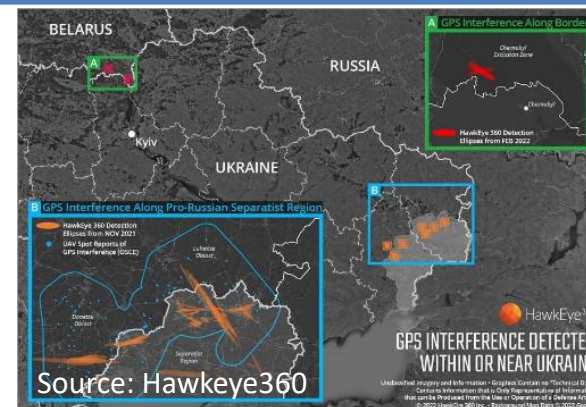


2 Sky and Space Surrounding Japan: Situation in Space

- China has remarkably increased the number of launches, six times increase in 12 years since 2012.
- **Threats in space domain have increased** including ASAT tests by China and Russia, GPS jamming and cyber attacks on space systems.
- North Korea launched rockets aiming at sending satellites in May, August and November. We have confirmed that the object launched by North Korea in November has been orbiting the Earth.



ASAT Test by Russia



GPS Jamming in Ukraine



资料来源: 上海证券研究所

China's Satellite with Robotic arm

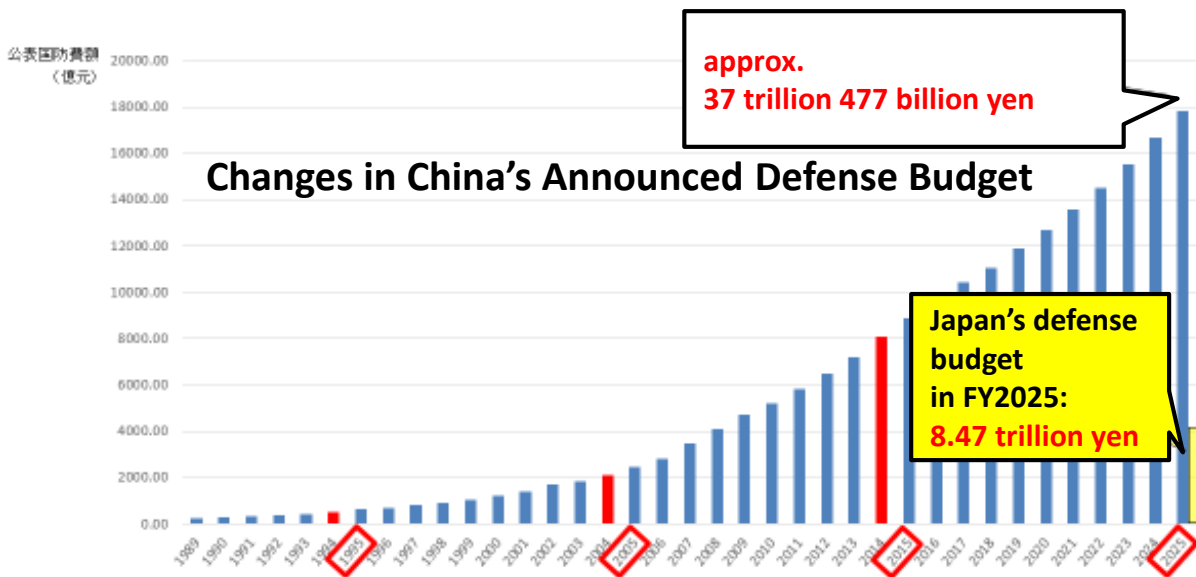


North Korea's launch of "Military Reconnaissance Satellite"



3 Security Environment Surrounding Japan: China

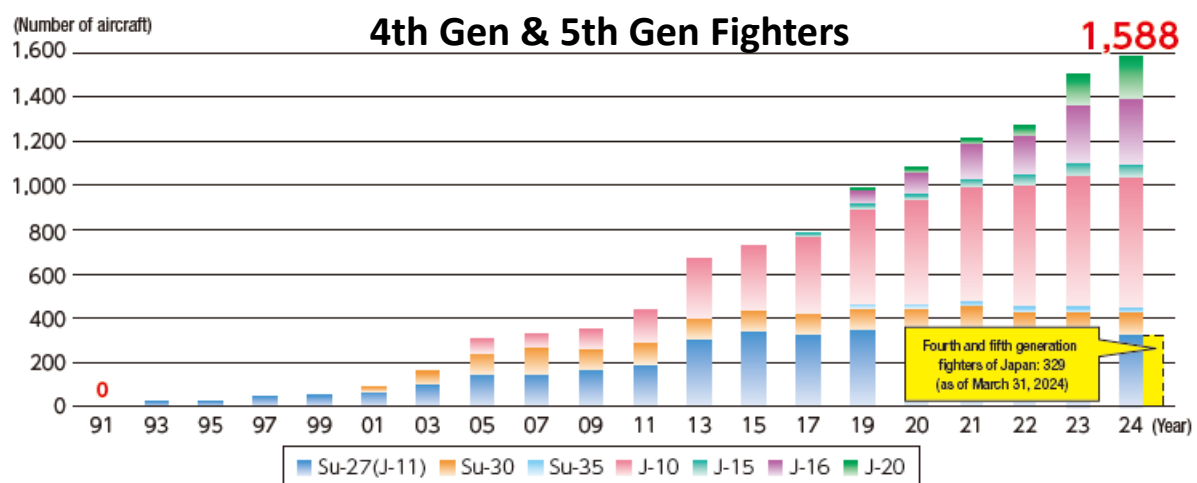
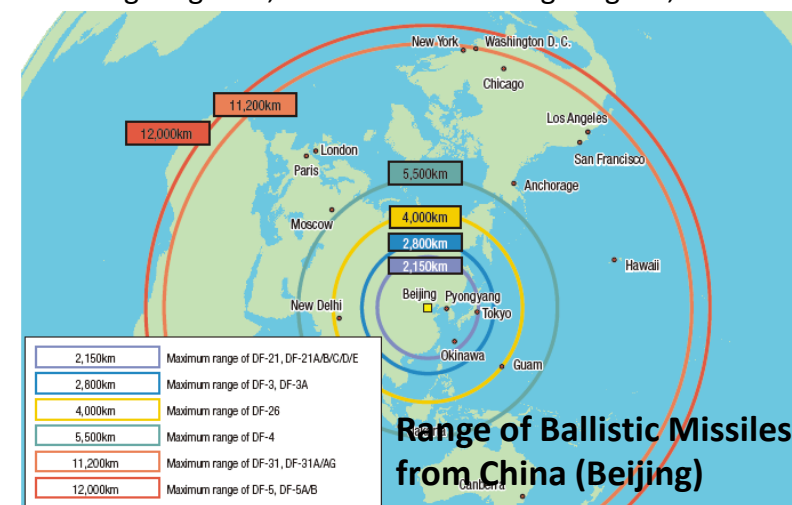
- China has rapidly increased announced defense budget (32 times in 30 years, 2 times in 10 years)
- Sustained high-level growth of its defense budget, engaging in broad, rapid improvement of its military power in quality and quantity.



DF-41 ICBM
Max firing range: 11,200km



DF-17 MRBM
Max firing range: 2,000km



J-20 fighter



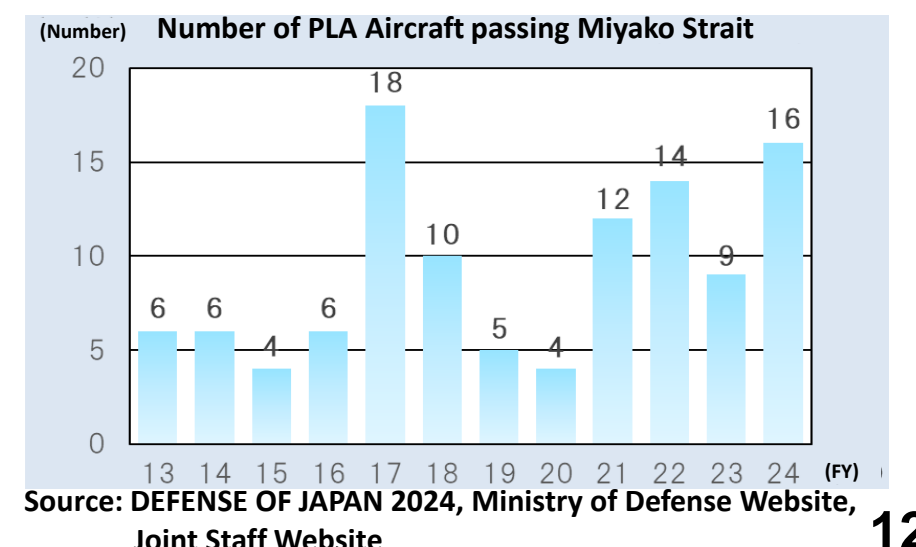
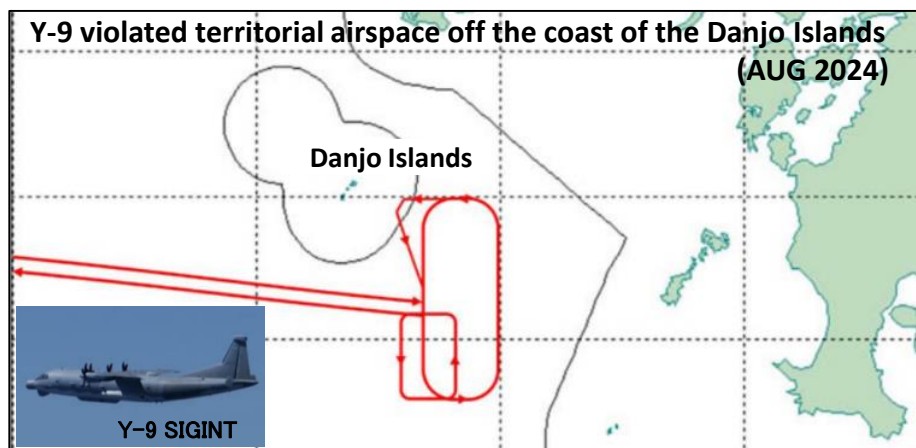
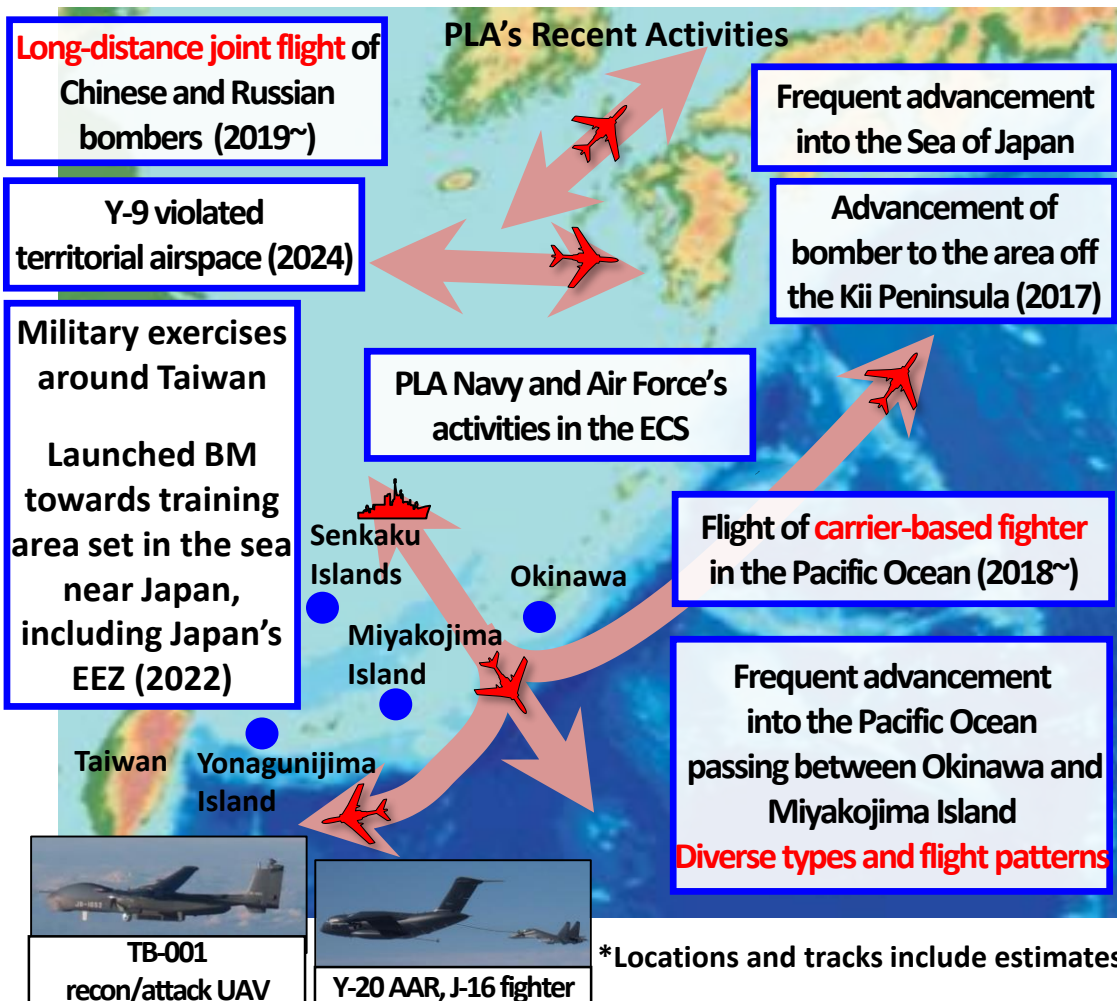
H-6 bomber

Source: DEFENSE of JAPAN (2024)
Ministry of Defense Website



3 Security Environment Surrounding Japan: China

- PLA has expanded its activities in the sea and airspace surrounding Japan.
- Activities show the improvement in practical integrated operational capabilities.
- Increases military pressure on Taiwan, entrenches its military foothold in the SCS, and strengthens collaboration with Russia.
- These military trends are **serious concern for Japan and the international community.**

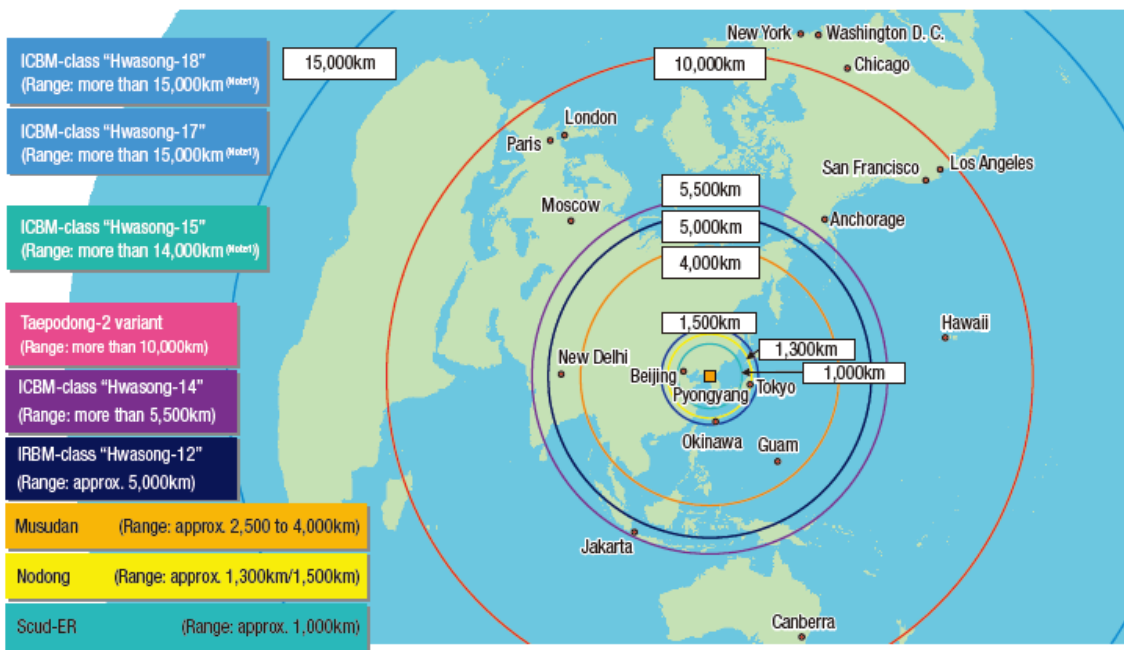




3 Security Environment Surrounding Japan: North Korea

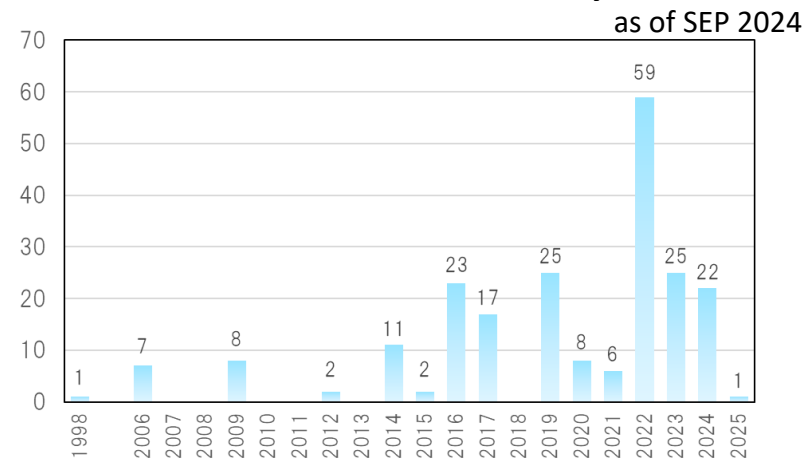
- North Korea's ultimate goal appears to be maintaining its regime, it recognizes that building its own nuclear deterrent is essential to counter the U.S.
- Possesses capabilities to **mount a nuclear warhead on its BM** whose range covers Japan.
- Develops **SRBM that can fly at low altitudes with irregular trajectory** and expands **more practical missile force**.
- Regarding Russia's aggression against Ukraine, North Korea supplies BM and dispatches soldiers to Russia, **unprecedentedly strengthening military cooperation with Russia**.
- North Korea's military trends pose **a more serious and imminent threat than ever before**.

Range of North Korea's Ballistic Missiles



(Notes) 1 Depends on weight of the warhead, etc.
 2 For simplicity, the distance from Pyongyang is displayed in concentric circles as an image.
 3 Quotation marks indicate the names used by North Korea.

Trends in Nuclear Tests and BM Launches by North Korea



North Korea's new IRBM (JAN 2025)
 Source: Korean Central News

Source: DEFENSE of JAPAN 2024
 Ministry of Defense Website



3 Security Environment Surrounding Japan: North Korea

Development of Missile-related Technologies

Surprise Attack Capabilities

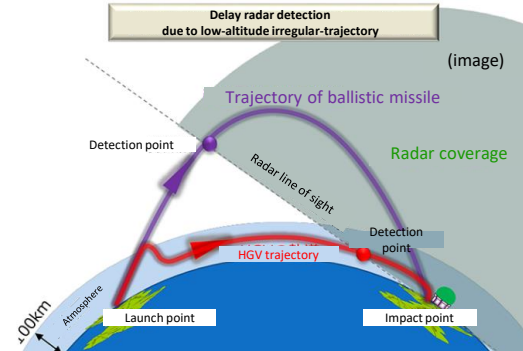


- ◆ Launch from various platforms
- ◆ Use solid fuel

⇒ Complicate indication of warning detection and interception of missiles

Practical Skills for Missile Operations

- ◆ Fly at low altitudes with irregular trajectory
- ◆ Hypersonic weapons



⇒ Complicate interception

Long-Range Missile



Hwasong-17,
Hwasong-18,
Hwasong-19
Range: 15,000km~

Hwasong-15
Range: 14,000km~

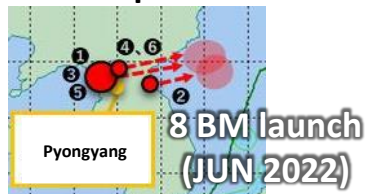
Hwasong-14
Range: 5,500km~



⇒ It may lead to an **increase and escalation of military provocations**

Development of Missile Capabilities

- ◆ Multiple Missile Launch



Multiple BM launch (MAY 2024)



- ◆ Less than 1 minute Interval



- ◆ Launch from Various Sites



⇒ Develop missile-related technologies and practical skills for **saturation attack**



3 Security Environment Surrounding Japan: Russia

- Pursue a Russian revival under the banner of "strong state" and "influential great power."
- Clarify commitment to modernize strategic nuclear weapons
- Continue intensified activities such as **introducing new equipment and conducting exercises**, and **strengthen strategic cooperation with China**.
- **Raise strong security concern** coupled with its strategic cooperation with China



Russian Far East force's New Equipment



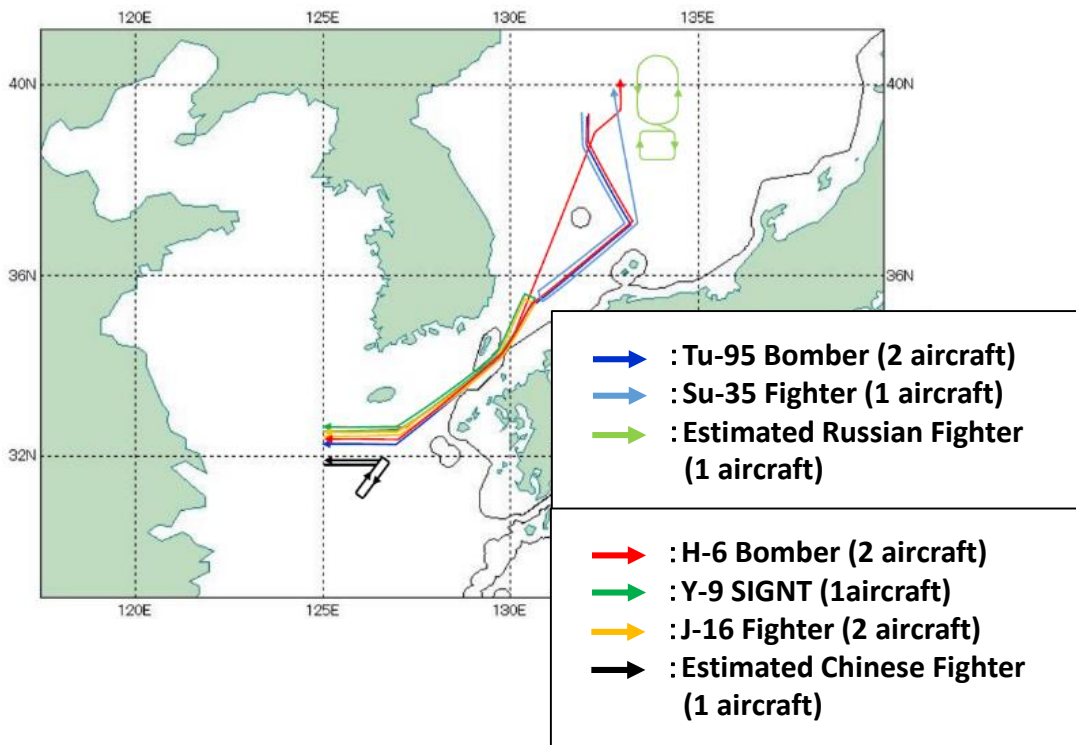
- 【Exercise/Training】**
- Vostok 2022 (SEP 2022)
 - More than 50,000 soldiers
 - Joint fire training in the Sea of Japan with PLA Navy
 - North-Joint 2024 (SEP 2024)
 - Russian Armed Forces participated in PLA's exercise at Sea of Japan and Sea of Okhotsk



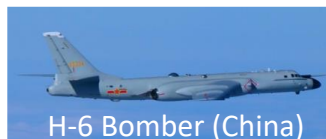
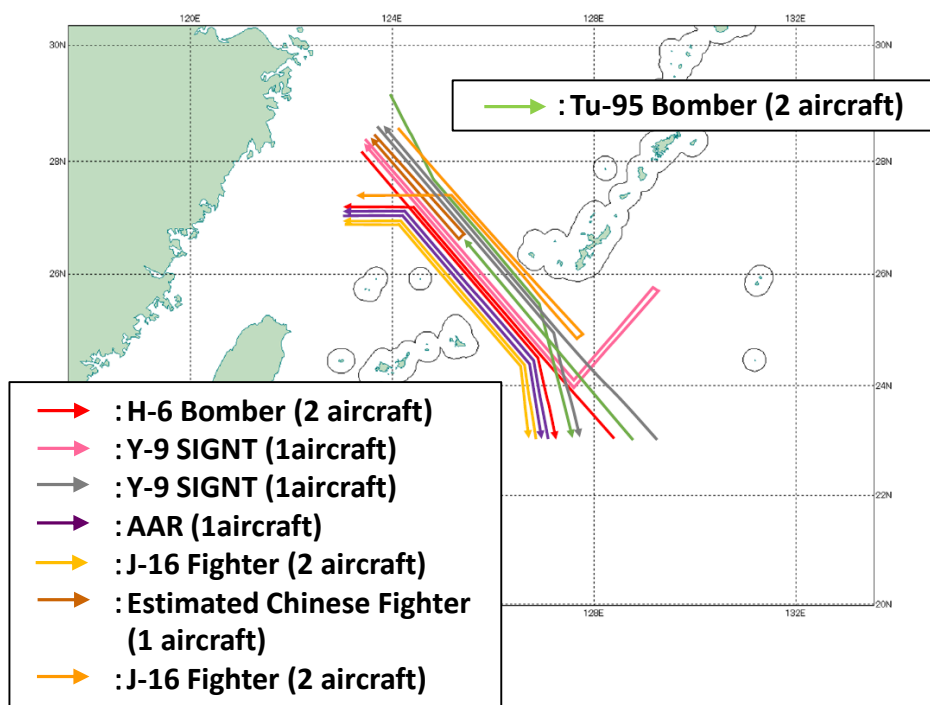
3 Security Environment Surrounding Japan: Joint Flight

- Since 2019, China and Russia has conducted joint flight in Sea of Japan, ECS and Pacific Ocean.
- **Mutual landing** and **flying with fighters**
- Declare conducting regular joint flight in Joint Statement on MAR 2023.

China-Russia Joint Flight (29 NOV 2024)



China-Russia Joint Flight (30 NOV 2024)



II

Air Defense Capability & Missions of Koku-Jieitai

- 1 Missions and Operations of Koku-Jieitai**
- 2 Characteristics of Air Defense Capability**
- 3 Organization of Koku-Jieitai**
- 4 Cooperation with the Ally and Like-Minded Countries**



1 Missions and Operations of Koku-Jieitai

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**



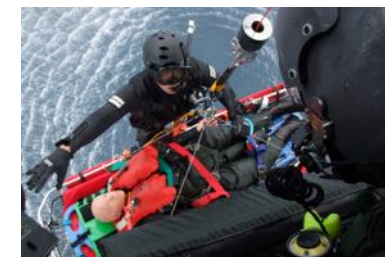
Action against violation of territorial airspace

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.



Disaster relief dispatch

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 Missions and Operations of Koku-Jieitai

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

Ground

Sea

Air and Space

【Contingencies】

JGSDF



150,000 personnel

JMSDF



45,000 personnel
140 vessels

JASDF (Koku-Jieitai)



47,000 personnel
450 aircraft



SSA Radar



Satellite Jamming
Detection Equipment



**Koku-Jieitai
responds to
violation of
territorial airspace**

**Koku-Jieitai conducts
SDA** for securing
stable use of space

Defense
Capabilities

【Peace time】

Police



260,000 personnel

Japan Coast Guard



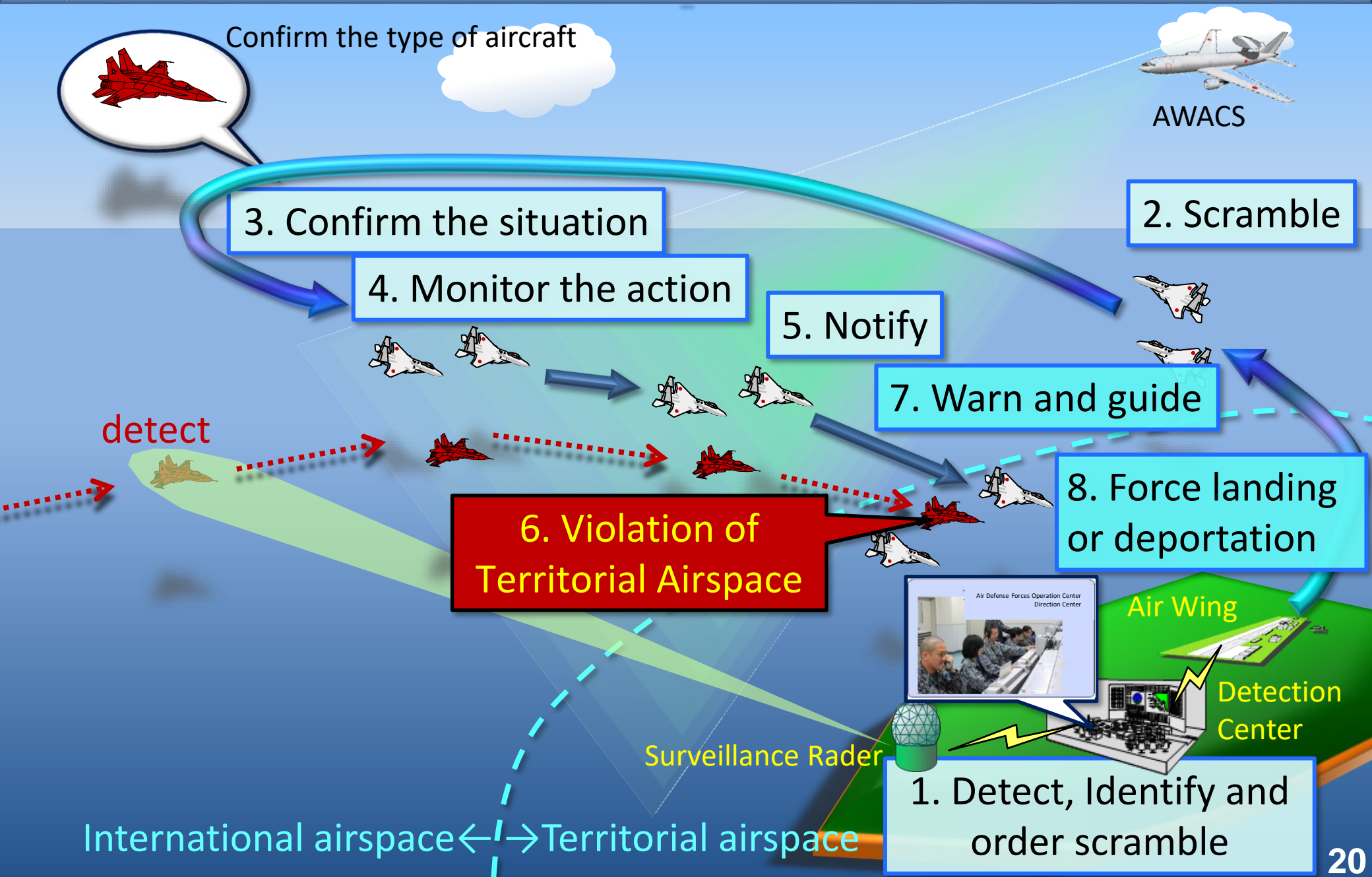
15,000 personnel
480 vessels

Police
Power

Source: DEFENSE OF JAPAN 2024, WHITE PAPER on POLICE, JAPAN COAST GUARD ANNUAL REPORT



Action against Violation of Territorial Airspace (Article 84)

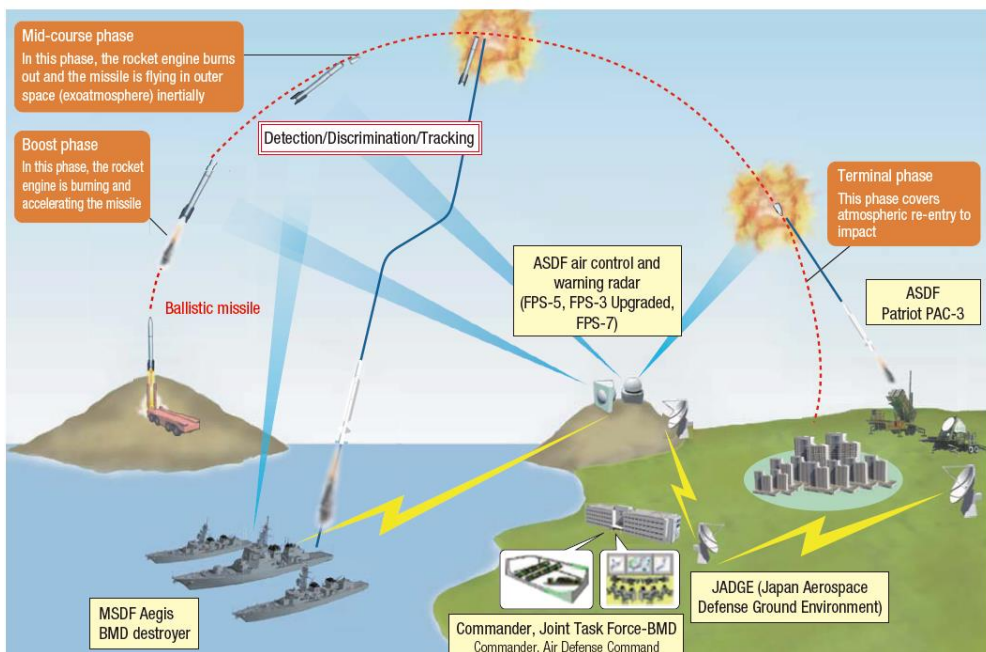




Destructive Measures against Ballistic Missiles (Article 82-3)

➤ **Air Defense Command Commander** takes command of **ground, maritime and air components** for BMD under the centralized control of Joint Operations Commander

Development & Operation Concept of BMD



JMSDF Aegis



PAC-3

Command and Control

Minister of Defense

COS, Joint Staff

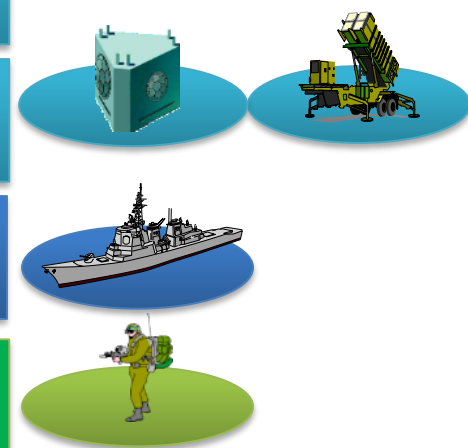
JSDF
Joint Ops Command Commander

Air Defense Command
Commander

JASDF
AC&W, PATRIOT Units

JMSDF
Aegis Destroyers

JGSD
Units



*BMD : Ballistic Missile Defense



Disaster Relief Dispatch (Article 83)

Heavy Rainfalls Disaster Relief in Noto Peninsula, Ishikawa (SEP 2024)



SAR in Futegawamachi, Wajima (22 SEP)



Information gathering by UH-60J (landslide) (22 SEP)



Transport personnel & supplies by UH-60J (25 SEP)



SAR in Machinomachi, Wajima (6 OCT)



Disaster Relief Dispatch (Article 83)

Aeromedical Evacuation (FY24)



Okushiri Island - Hakodate (U-125A)



Rishiri Island - Sapporo (U-125A)



Tsushima Island - Fukuoka (U-125A)



Southeast offshore Naha Airport - Naha (UH-60J)

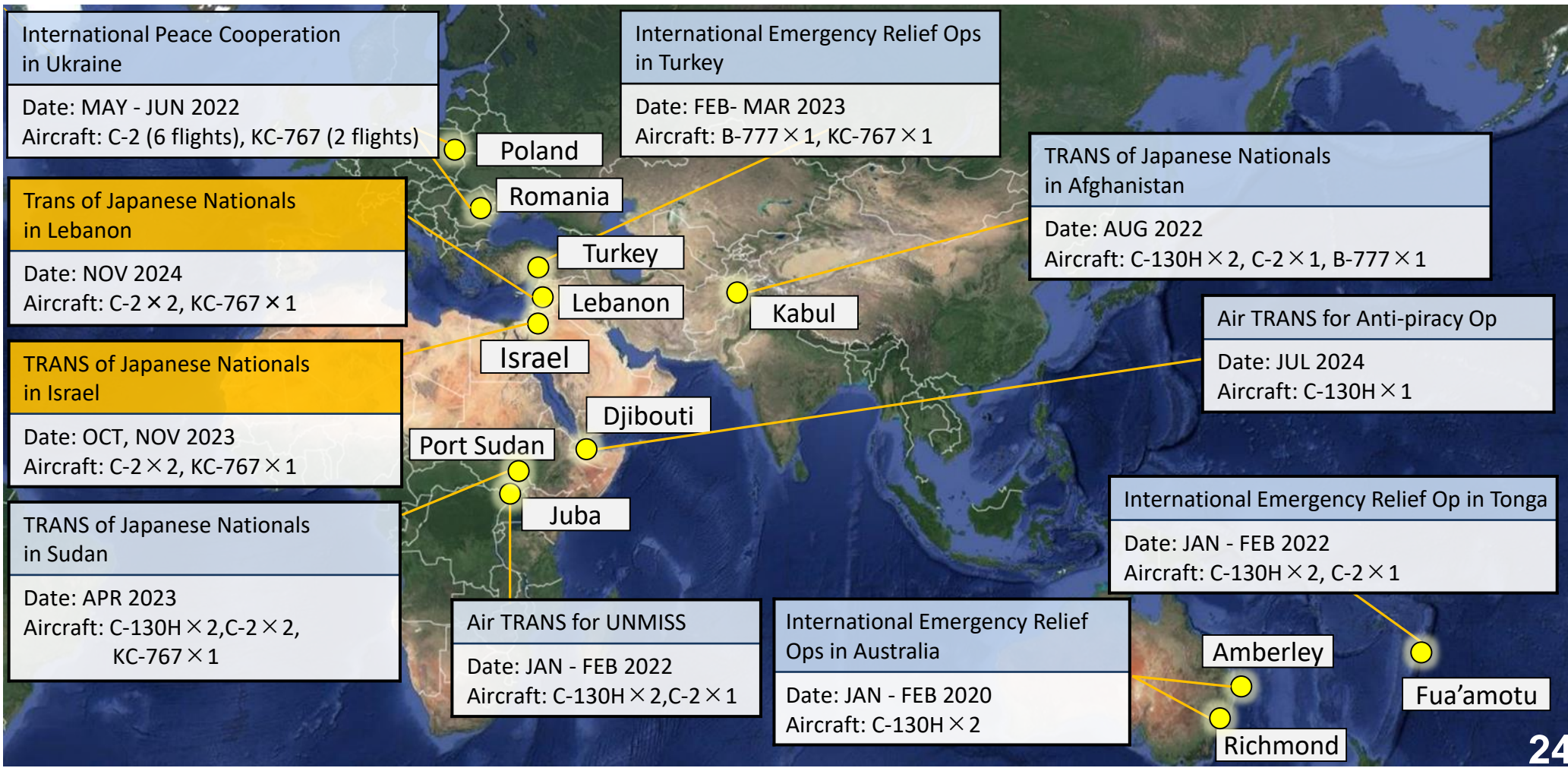
Activity	Engagement (JASDF)	
MEDEVAC	UH-60J, U-125A, C-2, C-130H	31 cases



Transportation of Japanese Nationals Overseas/International Emergency Relief Operation (Article 84-4)

➤ Since the first international PKO to Cambodia in 1992, Koku-Jieitai has conducted **international emergency relief operations, air transportation and transportation of Japanese nationals overseas for over 30 years.**

➤ **Transportation of Japanese Nationals Overseas from Lebanon to Jordan in 2024**





Transportation of Japanese Nationals Overseas/International Emergency Relief Operation (Article 84-4)

Transportation of Japanese nationals in Lebanon (4 OCT 2024)

➤ C-2 flew from Jordan to Lebanon and transported 16 Japanese nationals.



C-2 departing from Jordan to Lebanon



Inside the plane



JASDF crew waiting for C-2 in Lebanon



JASDF crew seeing off Japanese nationals
in Jordan



VIP Transportation (Article 100-5)

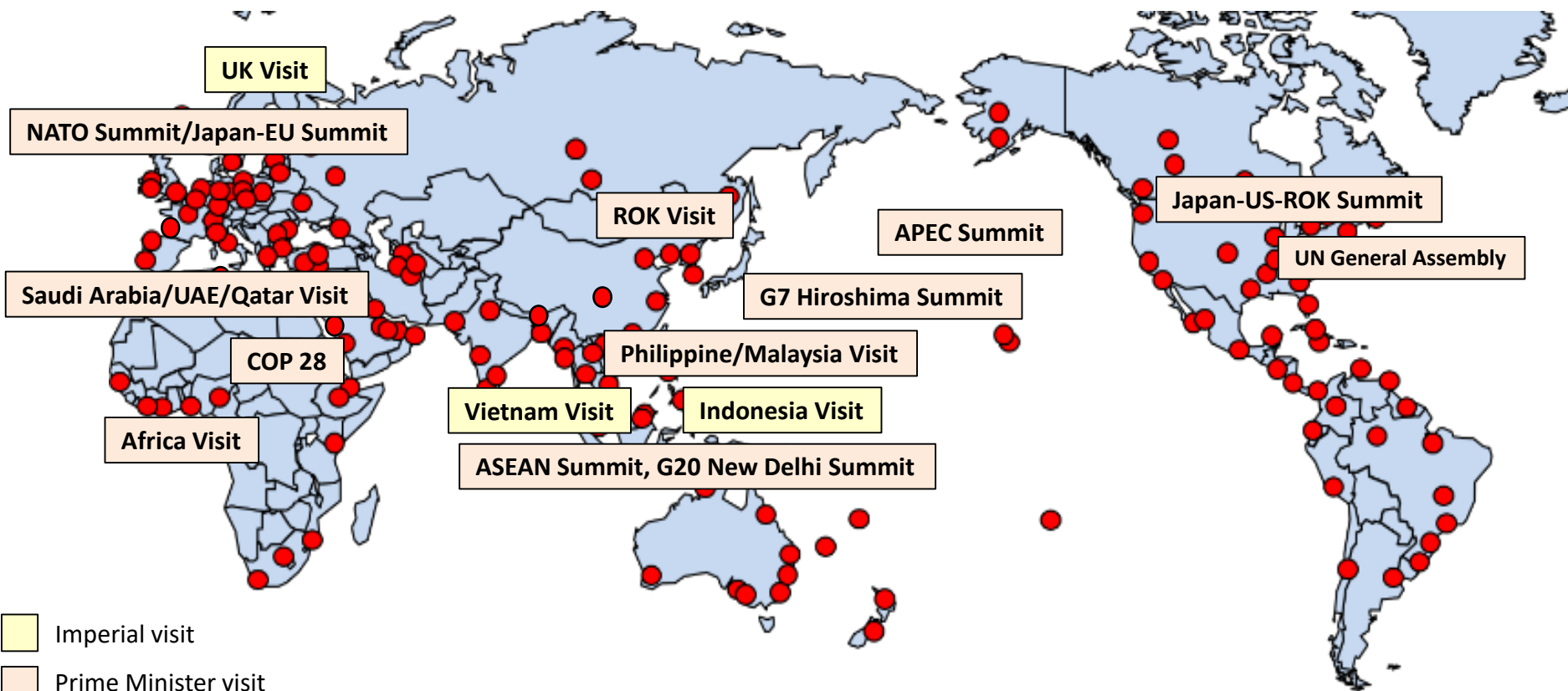
- Have conducted VIP transport since 1993
- 374 flight missions (as of 21 FEB 2025)
B-747: 318 times, B-777: 56 times
- Visited 101 countries/281 cities



Inside the plane



VIP transportation (Prime Minister)





2 Characteristics of Air Defense Capabilities

Air Defense Capabilities

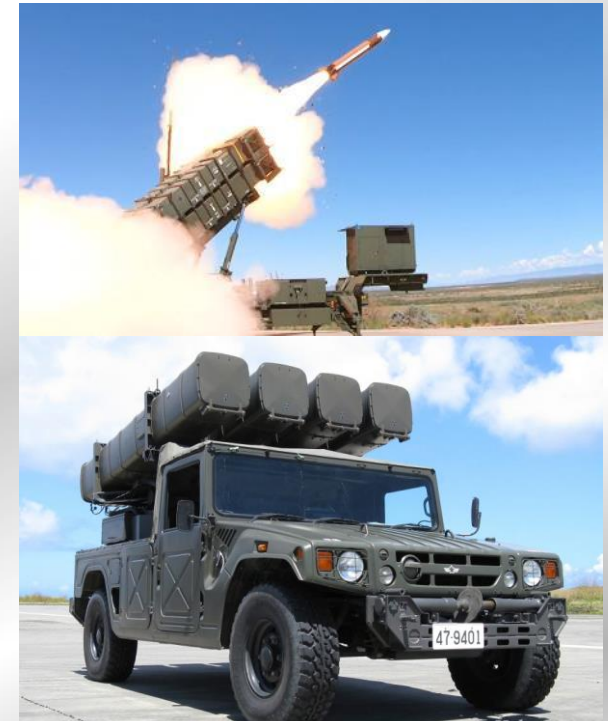
Defense Capabilities related to Air such as Aircraft, Radars and Missiles



Fighter Units



AC & W Units

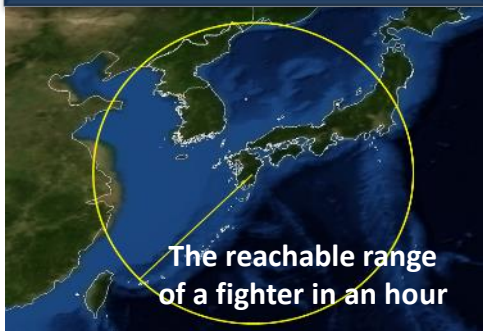


SAM Units

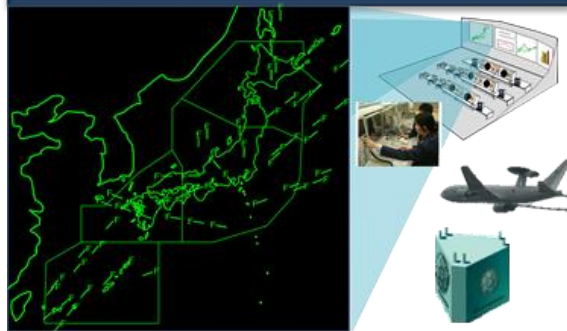


2 Characteristics of Air Defense Capabilities

Readiness & Agility



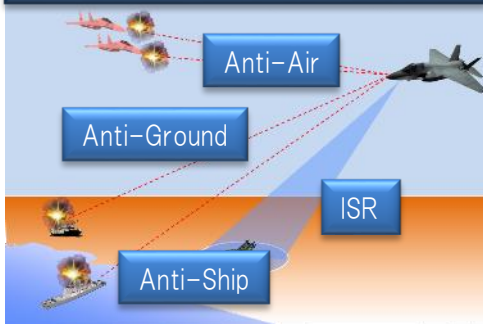
Surveillance Capabilities



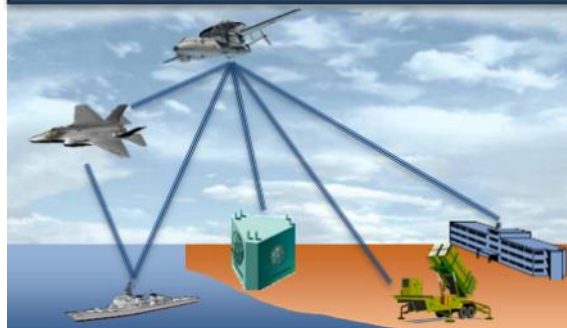
Affected by Weather



Flexibility & Diversity



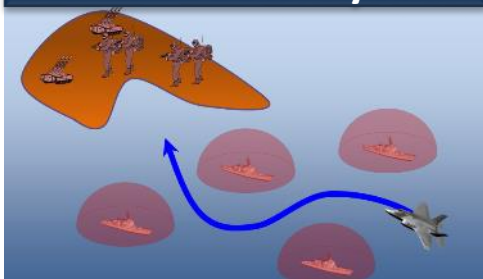
C3 Capabilities



Vulnerable on the Ground



Penetration & Survivability



Response Capability



Require Long-Term Effort

Acquisition

Education





3 Organization 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)

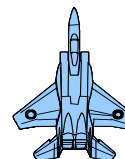
Naha
(Okinawa)

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
-  : E-2D

1 Reconnaissance Group

 : RQ-4B



3 Organization of Koku-Jieitai: Air Defense Command



Launch of SAM

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 Organization of Koku-Jieitai: Air Defense Command

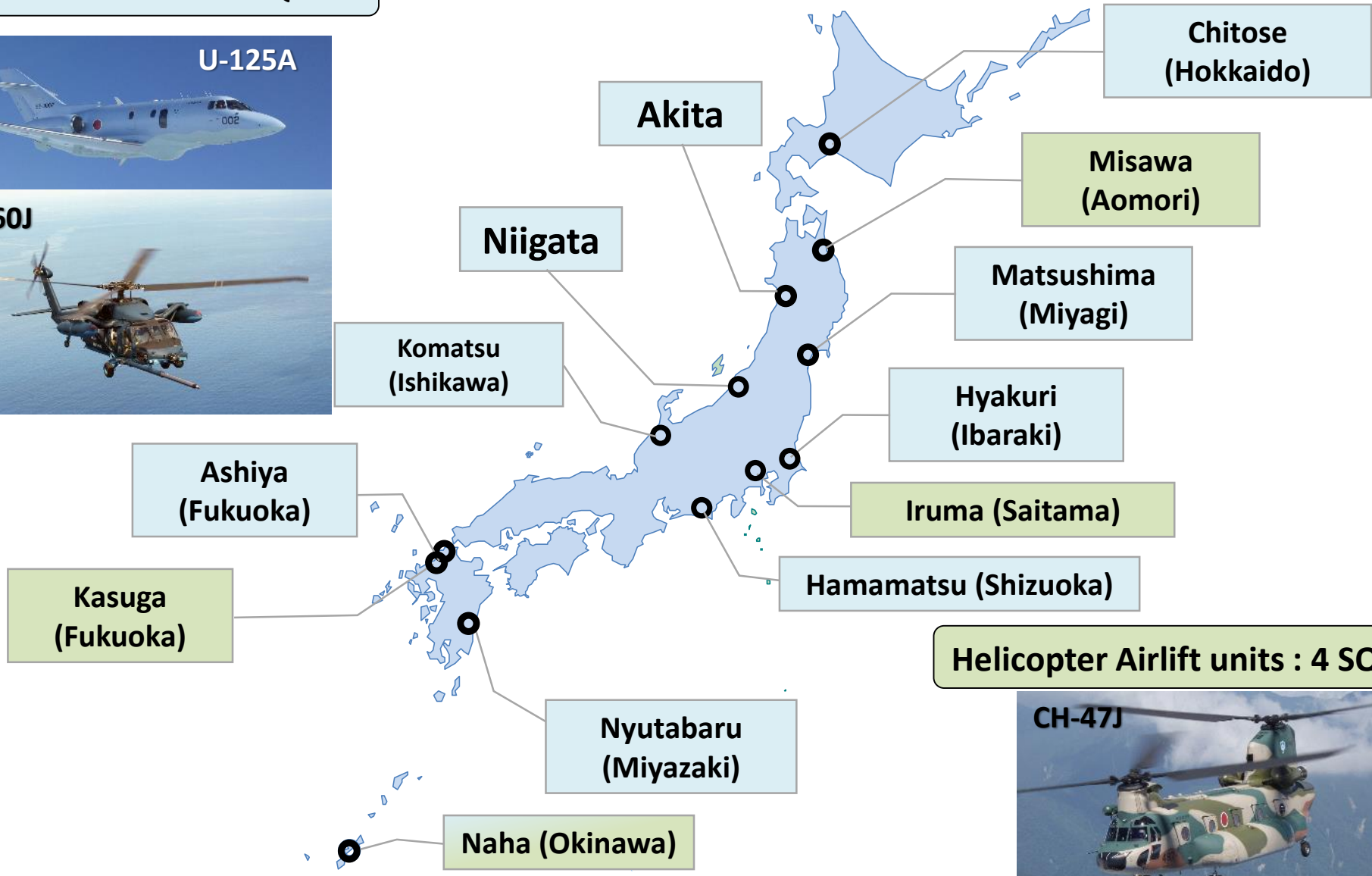
Air Rescue units : 10 SQs



U-125A



UH-60J



Helicopter Airlift units : 4 SQs



CH-47J

Koku-Jieitai



3 Organization of Koku-Jieitai: Air Support Command

Commander, Air Support Command

HQs, Air Support Command (Fuchu)

Tactical Airlift Wing (Komaki, etc.)

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



Air Traffic Control Group (Fuchu, etc.)

- Air traffic control
- Aviation recourse management
- Flight information service



Air Weather Group (Fuchu, etc.)

- Weather forecast
- Weather observation
- Weather information



Flight Check SQ (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 SQ (Komaki)

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





3 Organization of Koku-Jieitai: Air Support Command



B-777



C-2



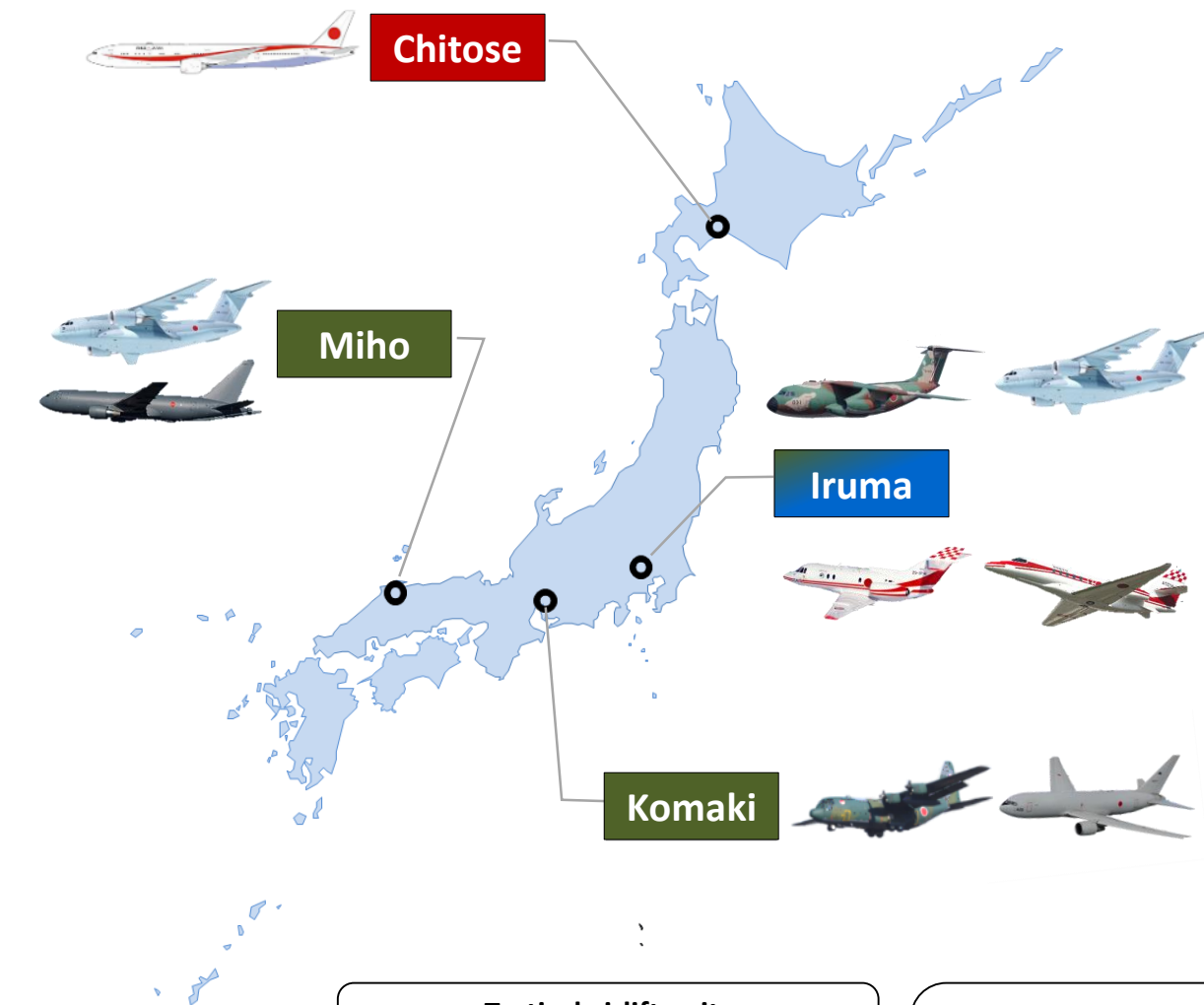
KC-46A



KC-767



U-4



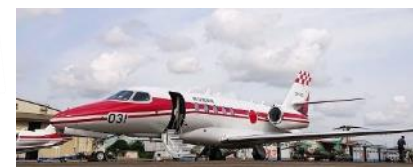
C-130H



C-1



U-125



U-680A

- 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

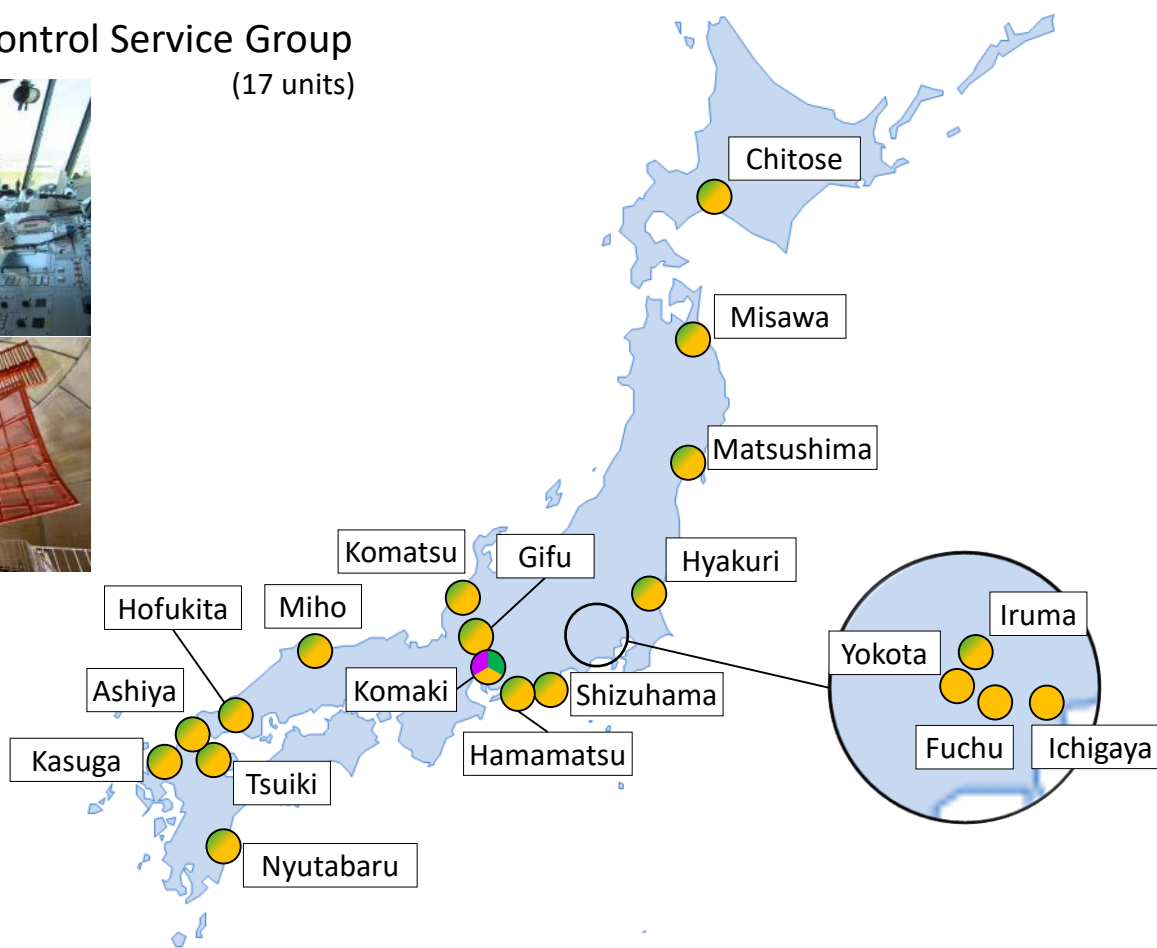


3 Organization chart of Koku-Jieitai: Air Support Command

Air Traffic Control Service Group
(17 units)



Air Weather Service Group
(20 units)



Aeromedical Evacuation Squadron





3 Organization of Koku-Jieitai: Air Training Command

Commander, Air Training Command

HQs, Air Training Command (Hamamatsu)

Air Wing

(Hamamatsu, Matsushima)

- Education and training for student pilots (Basic Fighter training course)



Flying Training Wing

(Shizuhamam, Hofukita, Ashiya)

- Education and training for students as pilots (Basic pilot course)



Air Basic Training Wing

(Hofuminami, Kumagaya)

- Basic or general education and training for cadets, enlisted personnel at various ranks



Fighter Training SQ

(Nyutabaru)

- Education and training for students as pilots (Fighter pilot course)



Air Training Aids Group

(Hamamatsu)

- Create and maintain training materials for education and training



Officer Candidate School

(Nara)

- Education and training for cadets to execute missions



Technical Schools

(Hamamatsu, Ashiya, Kumagaya, Komaki)

- Education and training for each specialized technique for operation of equipment





3 Organization of 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 & Test Group
(Fuchu)**

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



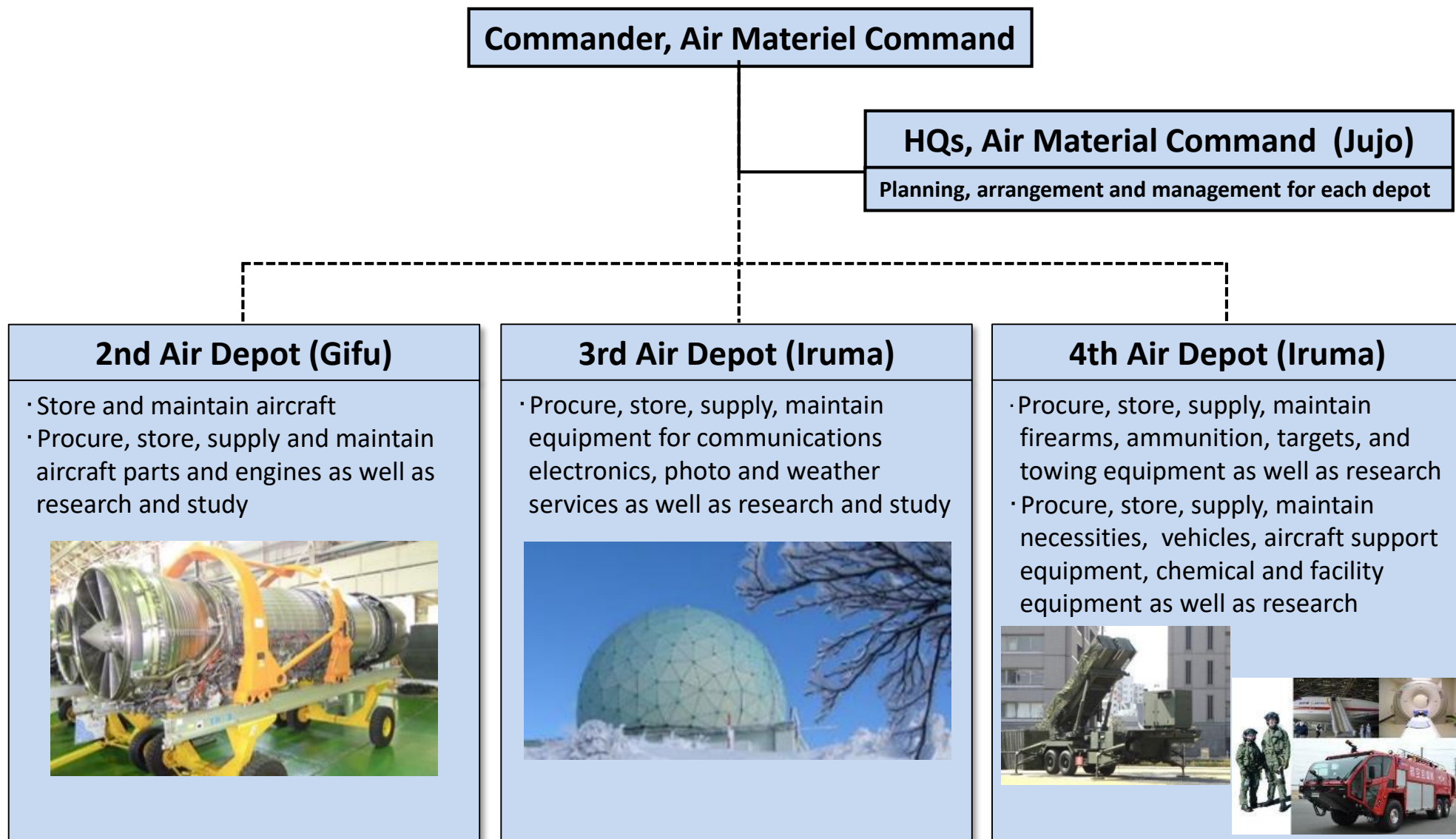
**Aeromedical Laboratory
(Iruma)**

- Research on aviation medicine, and preventing accident
- Practical test
- Evaluate and training
- Information gathering and education on flight safety
- Site survey for accidents
- Cooperation with other services, ATLA





3 Organization of Koku-Jieitai: Air Materiel Command



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



3 Organization of Koku-Jieitai: Space Operations Group

【Defense Buildup Plan (16 DEC 2022)】

- Establish new space unit commanded by a General Officer
- Koku-Jieitai will be renamed Koku-Uchu-Jieitai (Uchu= Space)
- 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 Systems Section in ASO stood-up
- Mar 2020 Space Operations SQ Stood-up



Minister of Defense

Space Operations GP

HQ Space Operations GP

Fuchu AB

1st Space Operations SQ

Space Ops Control SQ

1st Space Systems SQ

Hofu-kita AB

2nd Space Ops SQ

2nd Space Systems SQ

310 personnel as of Mar 2025

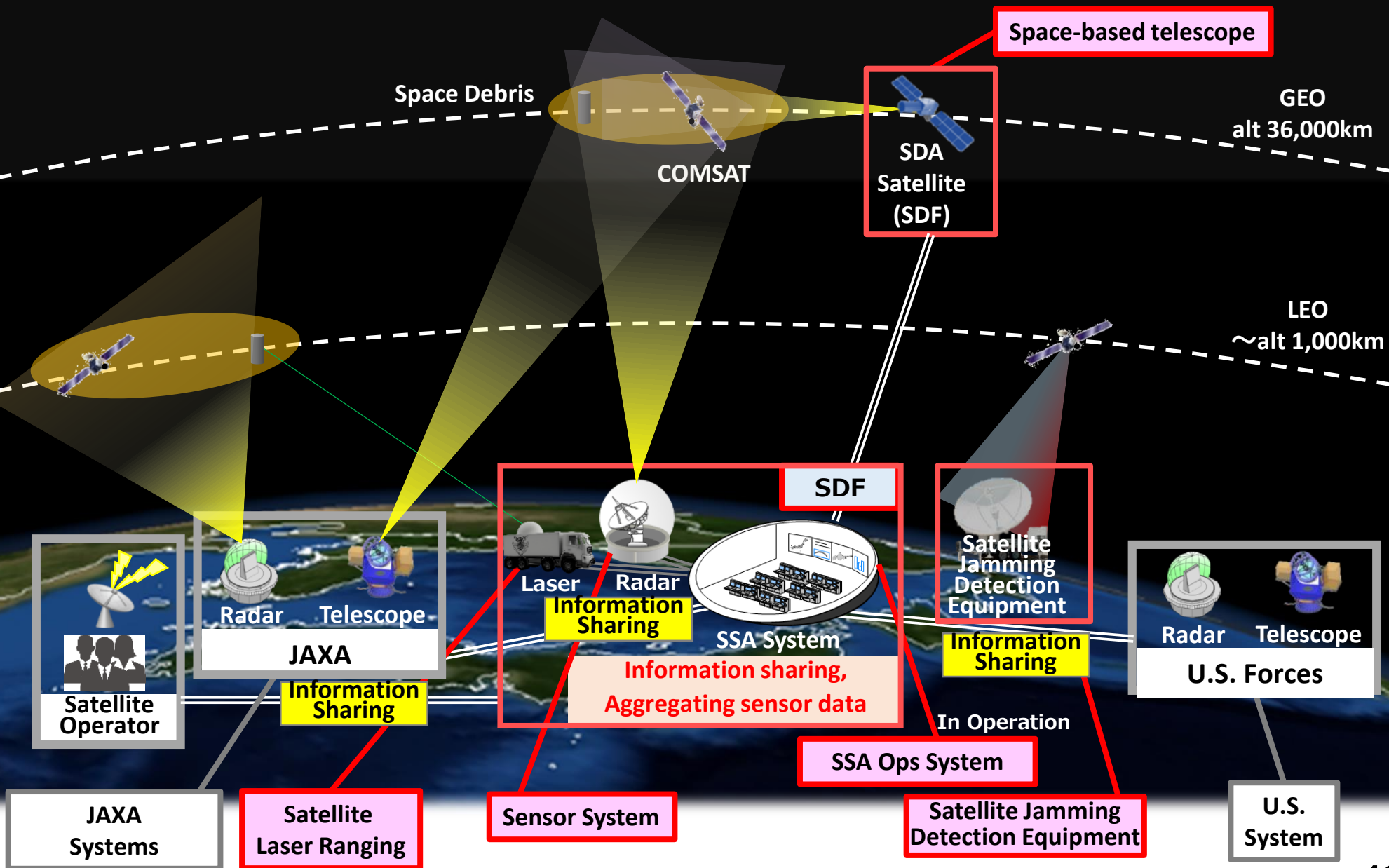


【National Defense Program Guidelines since 2019】

Koku-Jieitai will possess space-specialized unit



Posture Development of Koku-Jieitai in Space Domain



III

Future Defense Posture of 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 FY2025
- 4 Cooperation with Ally and Like-minded Countries



1 NSS, NDS, DBP

Strategy Architecture

National Security Strategy

- Provides strategic guidance for Japan's national security policy areas in addition to diplomacy and defense, including economic security, technology, cyber, intelligence etc. (Executed approximately 10-year timeframe)

National Defense Strategy

- Sets **defense objectives** and demonstrates **approaches** and **means** by which Japan accomplishes those objectives (Executed approximately 10-year timeframe)

Koku-Jieitai will be renewed Koku-Uchu-Jieitai (Uchu= Space)

Defense Buildup Program

- Sets **the level of defense capability**
 - Organization of Self-Defense Forces (ten years from now)
 - Total expenditures for the next five years and quantities of major procurement

A new specialized space domain missions unit commanded by a general officer will be established, and Koku-Jieitai will be renamed Koku-Uchu-Jieitai.



Seven Fields of Key Fields/Capabilities (Seven Pillars)

➤ We focus on **the 7 fields as functions and capabilities necessary for national defense.**

● **Disrupt and defeat invading forces over long distances, thereby **detering invasion itself****

① Stand-off defense capabilities



② Integrated air and missile defense capabilities



● **Should deterrence fail and an invasion of Japan occur, in addition to ① and ②, leverage manned as well as unmanned assets to **ensure asymmetric advantage and gain superiority across domains** such as underwater, surface, and air.**

③ Unmanned defense capabilities



④ Cross-domain capabilities



⑤ C2 / Intelligence-related functions



● **Operate in a swift and persistent manner to crush to the opponent's will to invade**

⑥ Mobile deployment capabilities / Civil protection



⑦ Sustainability / Resiliency





2 Each Function for Air Defense Capabilities & Seven Priority Fields

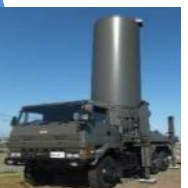
Command & Control
JADGE



Operational Support
Air Transportation,
Aerial Refueling,
Air Rescue



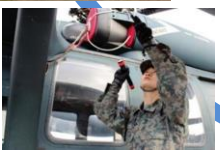
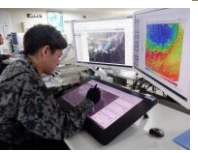
Sensors
Ground and Airborne Radars



Shooters
Fighters, SAM



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 Main Program of FY2025

Stand-off Defense Capabilities

- Acquire Stand-off Missiles (JSM, JASSM)
- Acquire & Upgrade of Launch Platform (F-35A & F-15 Upgrade)
- Develop ACI* (Target Information Service)

*Air self-defense force Cloud computing Infrastructure



JSM^{※1}
(conceptual image)



JASSM^{※2}
(conceptual image)



Upgrade F-35A



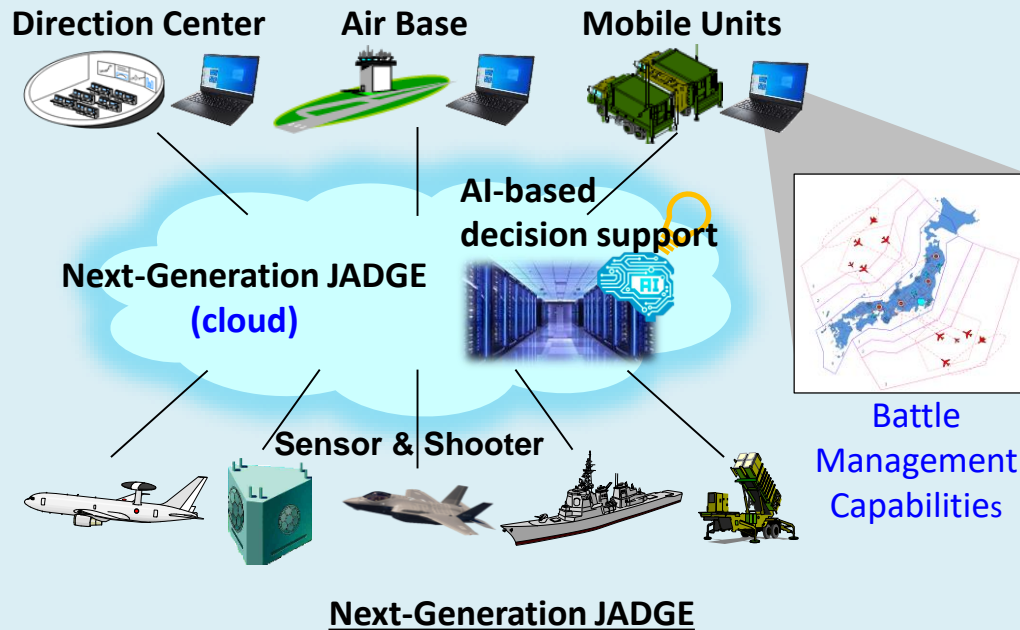
Upgrade F-15

※1 JSM: Joint Strike Missile

※2 JASSM: Joint Air-to-Surface Stand-Off Missile

IAMD Capabilities

- Develop Next-Generation JADGE
- Install Mobile Warning & Control Radars at Kitadaito Island
- Add Functions for FPS-5 & FPS-7 (counter HGV)
- Acquire PAC-3MSE





3 Main Program of FY2025

Unmanned Defense Capabilities

- Measures for RQ-4B Operations

Cross Domain Capabilities

- Strengthen Capabilities in Space Domain
 - Satellite Jamming Detection System
 - Space Domain Awareness
 - Organize Space Operations Wing



Satellite Jamming Detection System

● Reinforce Capabilities in Cyber Domain

- Develop the ACI* (security service)

*Air self-defense force Cloud computing Infrastructure

- Cyber Education

● Enhance Capabilities in Electromagnetic Domain

- Acquire RC-2 (ELINT aircraft)

- Procure F-35A/B, Upgrade F-2

● Reinforce Capabilities in Air Assets

- Procure F-35A/B, Upgrade F-2

- Acquire T-6 and Ground Education Device



F-35B (conceptual image)



T-6 (Next Training Fighter Jet)
(conceptual image)



3 Main Program of FY2025

C2 & Intelligence Functions

- **C-2 System**
 - Develop Next-Generation JADGE
 - Develop ACI (Command & Control)
- **Intelligence-related Functions**
 - Acquire RC-2 (ELINT aircraft)
 - Develop Ground-based SIGINT System and Radar (Western, Southwestern area, Kitadaito Island)



J/FLR-4A

Mobile Deployment Capabilities

- Acquire KC-46A, Train Pilots & Loadmasters
- Promote policies to swiftly maneuver and deploy units



KC-46A

Sustainability / Resiliency

- **Securing Ammunitions**
 - Acquire ammunitions *AIM-120 (conceptual image)*
- **Maintenance of Equipment**
 - Acquire Spare Parts (according to procurement lead time)
 - Acquire Maintenance Equipment for Units/Depos
- **Improving the Resiliency of Facilities**
 - Install Dispersion Pads, Camouflage Facilities, Shelters
 - Promote Disaster Prevention
- **Strengthening Medical Function**
 - Acquire Medical Supplies for First Aid at Front Line and Medical Evacuation
 - Secure Blood Products (Blood Test)



AIM-120 (conceptual image)



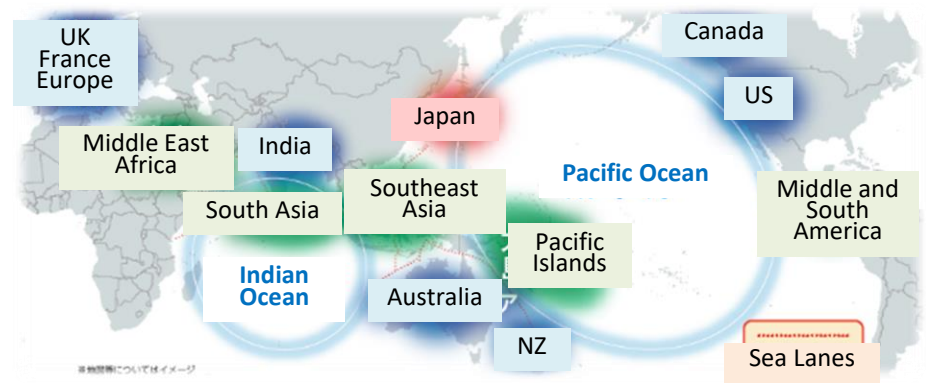
4 Cooperation with Ally and Like-minded Countries

Koku-Jieitai's policies of Defense Cooperation/Exchanges

FOIP

(Free and Open Indo-Pacific)

- The vision to enhance “connectivity” between Asia and Africa through FOIP and promote stability and prosperity in the region



Three Strategic Documents

- Strengthen Japan-U.S. Alliance
- Maintain and develop free and open international order and deepening cooperation with ally 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 promotes the defense cooperation and exchanges such as **high-level exchanges, working-level engagements and joint training** utilizing the **bilateral and multilateral frameworks**.



4 Cooperation with Ally and Like-minded Countries

High-Level-Exchanges



Unit-to-Unit

Working-Level Exchanges



FASF



IAF



IDAF

Bilateral/Multilateral-Training



Cope North 25

Rising Sun 24



① Efforts to Strengthen Japan-U.S. Alliance

- **Japan-U.S. Alliance** greatly contributes to the peace, stability and prosperity not only in Japan but also in the Indo-Pacific region and the international community
- Deepen **mutual understanding** and **communication** to strengthen **deterrence** and **response capabilities**, and conduct **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



Chief of USAF

Operational

Deepen cooperation in operational level



Bilateral Information Analysis Cell



Keen Sword



Global Sentinel (SSA multilateral TTX)

Tactical

Enhance tactical interoperability through bilateral/multilateral training



Red Flag Alaska



Cope North



JPN-US Bilateral Training



① Efforts to Strengthen Japan-U.S. Alliance



**1st WG for Future Fighter Training and Readiness
(JUL 2024)**



**JPN-US Rapid Airfield Damage Repair Training
(NOV 2024)**



**JPN-US Bilateral Training
(JAN 2025)**



**Cope North 25
(FEB 2025)**



② Joint Training/Exercises with Like-minded Countries

➤ Strengthen cooperation with states in Indo-Pacific and countries which enhance their involvement in the region under the vision of “FOIP”

Pitch Black 24 



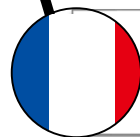
Pacific Skies 24 



JUL 2024
Pitch Black 24@AUS



JUL 2024
Pacific Skies 24@JPN



JUL 2024
Pegase 24@JPN



AUG 2024
Pacific Angle 24-1@PNG



AUG 2024
Rising Sun 24@JPN



OCT 2024
Doshin-Bayanihan 4-24@PHI



FEB 2025
Cope North 25@GUAM



Pegase 24 



Rising Sun 24 



Doshin-Bayanihan 4-24 



Cope North 25 





② Joint Training/Exercises with Like-minded Countries

Pitch Black 24 at RAAF Base Darwin, AUS (JUL-AUG 2024)



JASDF F-2 Fighter



Loading Bomb onto F-2



Quadrilateral Meeting among JPN-US-AUS-PHI

- **Multilateral Exercise hosted by RAAF**, Second time participating since 2022
- Deployed E-767 and conducted F-2 bombing training for the first time in AUS.
- Participated in quadrilateral meeting among JPN-US-AUS-PHI.



② Joint Training/Exercises with Like-minded Countries

Bilateral Training with FASF at Hyakuri AB (JUL 2024)



Rafael Received a Warm Welcome



Formation Flight with FASF



- FASF visited Hyakuri AB as part of its deployment exercise “Pegase.”
- **Second consecutive** bilateral training with FASF since 2023.



② Joint Training/Exercises with Like-minded Countries

Trilateral Training among Koku-Jieitai, German Air Force and Spanish Air and Space Force at Chitose AB (JUL 2024)



Spanish Eurofighter Taking off from Chitose AB



Trilateral Formation Flight



➤ German and Spanish fighters visited Chitose AB as part of “Pacific Skies 24” and Koku-Jieitai conducted trilateral training.

➤ First joint training with the SASF, and we confirmed tactical skills each other.



② Joint Training/Exercises with Like-minded Countries

Bilateral Training with the German Air Force (Nippon Skies 24) at Chitose AB (JUL 2024)



Gen Uchikura and Lt Gen Gerhartz Flew Together



Shaking Hands with Lt Gen Gerhartz after Flight



German Eurofighter Taking off from Chitose AB



Refueling from JASDF

- Part of “Pacific Skies.”
- **First refueling from Koku-Jieitai to German aircraft after concluding JPN-GER ACSA.**



② Joint Training/Exercises with Like-minded Countries

Bilateral Training with Italian Air Force (Rising Sun 24) at Misawa AB (AUG 2024)



Italian F-35A arrived at Misawa AB



Bilateral Formation Flight



- Bilateral training with the ItAF, **the second time in two consecutive years** following 2023
- ItAF deployed F-35A, Eurofighter and KC-767.
- USAF participated in the training, and strengthened trilateral cooperation.




③ Capacity Building Assistance and Multilateral Defense Cooperation


- **Capacity building assistance** for ASEAN member states
- 9 fields: **international aviation law, aviation meteorology, aviation medicine, flight safety, air rescue, ATC, HA/DR, cyber security** and **WPS**.
- Under Vientiane Vision 2.0, Koku-Jieitai conducted “Professional Airmanship Program” in order to deepen mutual understanding between Japan-ASEAN air services.

 Sri Lanka • Air Rescue





CPX


 Vietnam




Air Rescue Training (Matsushima AB)

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

 Philippines • Aviation Medicine



Unit Tour (Iruma AB)



 ASEAN

- PAP
- WPS



Unit Tour (Kasatoriyama SB)



Japan-ASEAN WPS Cooperation Project



③ Capacity Building Assistance and Multilateral Defense Cooperation



Sri Lanka (Air Rescue)@Sri Lanka (FEB 2025)



Mongolia (ATC)@JPN (DEC 2024)



Vietnam (Air Rescue)@JPN (NOV 2024)



Philippines (Aviation Medicine)@JPN (OCT 2024)

IV

- 1 Initiative in Space Domain**
- 2 Initiative in GCAP**
- 3 Air Force Forum in Japan**
- 4 Shipboard Operational Test of F-35B
on Izumo-class D/D “Kaga”**
- 5 Efforts to Secure Human Resources**
- 6 Efforts to Prevent Harassment**
- 7 Exchange & Collaboration with Local Communities**



1 Initiative in Space Domain (JAXA, Ally and Like-minded Countries)

- MAR 2024~
Participate in **Exercise "AsterX 2024"** (Toulouse)
- 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, ally 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)
- OCT 2018~
Participate in **"Schriever Wargame"** (Maxwell AFB)



【Med-term Defense Program (FY2019~FY2023)】
Cooperation with relevant agencies such as JAXA and relevant countries



- 2017~
Dispatch Koku-Jieitai personnel to **JAXA**



1 Initiative in Space Domain (Private Companies)

Provide Space Situational Awareness (SSA) Information to Commercial Satellite Operators

- Provide SSA information to commercial satellite operators since MAR 2023.
- Provide orbit information and analysis information on other satellites and space debris.

Space Collaboration & Innovation Office

- Establish a small office in central Tokyo to cooperate with civilian agencies since OCT 2023.
- 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.
- Held public-private events in FEB 2024 and FEB 2025.





2 Initiative in GCAP*

*Global Combat Air Programme

- Promote co-development of GCAP with UK and Italy, aiming deploy first aircraft by FY2035 when F-2 will retire.
- Maintain capability to effectively counter numerically superior opponents, and secure air superiority.
- Coordinate closely with ATLA, reflect user requirements, and cooperate with UK and Italy.
- Establish GIGO (GCAP International Government Organization) Dispatch Koku-Jieitai personnel to UK as staff of GIGO.

Conceptual Images

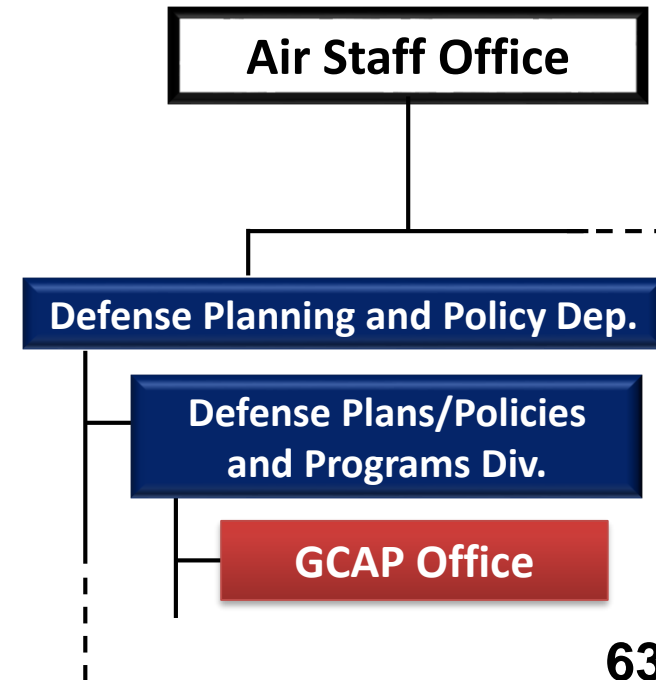


Cooperation between JPN-UK-ITA



Trilateral air chiefs meeting

Function of Koku-Jieitai





3 Air Force Forum in Japan

- Celebrate 70th anniversary of Koku-Jieitai, invite air chiefs from various countries to hold bi/multi meetings, and promote defense cooperation and exchanges.
- Date & Venue: 14-18 OCT at Hotel Okura (Tokyo) and Iruma AB

1 Bi/Multi meetings



2 InPACT



3 JA Tour



4 Iruma AB Tour





4 Shipboard Operational Test of F-35B on Izumo-class D/D “Kaga”

- JMSDF tested F-35B shipboard operations with support of U.S. Forces in OCT 2024.
- Koku-Jieitai conducted refueling and confirmed procedures for F-35B takeoff and landing.



Transport to the Deck by Elevator



Taking off from the Deck



Landing on the Deck



Refueling



6 Efforts to Secure Human Resources (Improve Sufficiency)

Re-appointment of Retired SDF Pilots

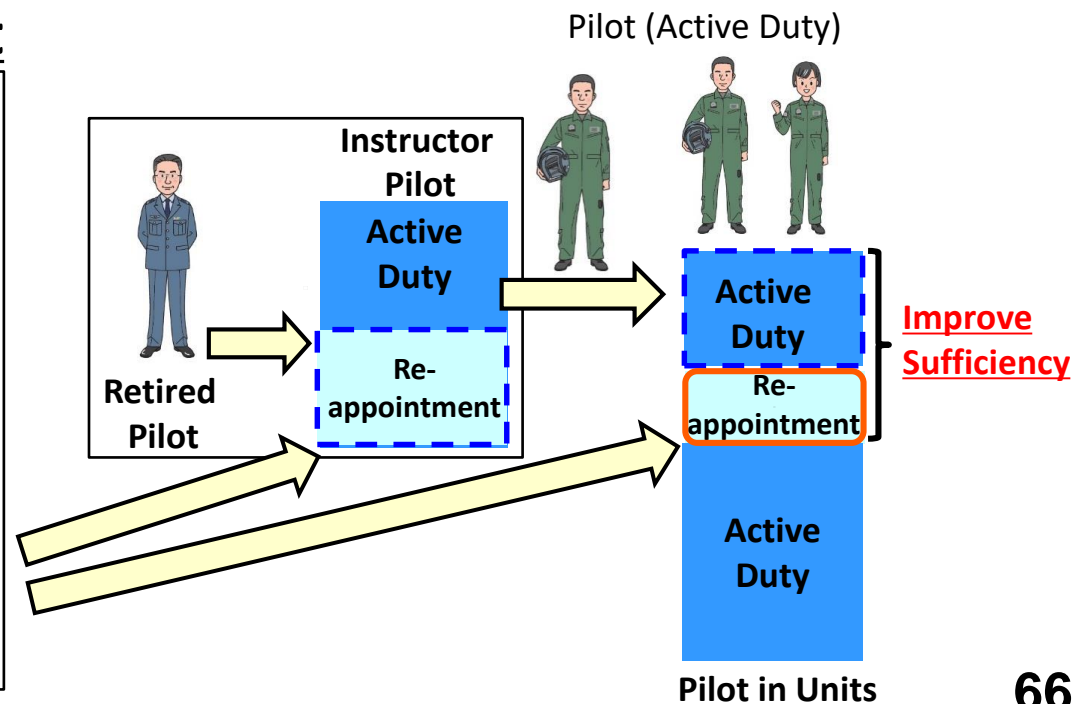
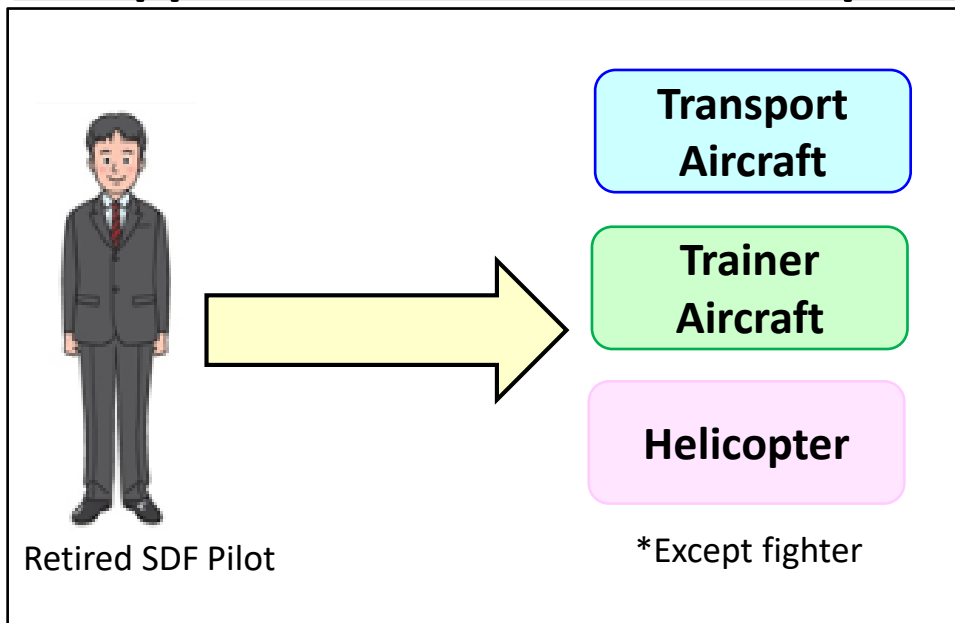
【Re-appointment System】

- Conduct education and training on board as instructor pilot from FY2022
- Started from FY2023 (except for fighter)

Re-appointment of retired SDF instructor pilot



Re-appointment of retired SDF pilot





5 Efforts to Secure Human Resources (Women's Participation)

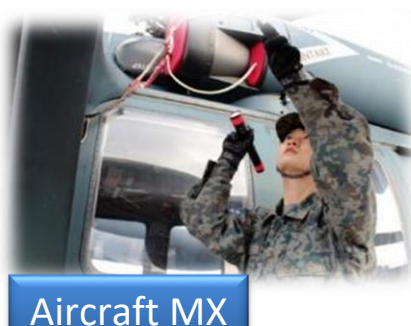
- Koku-Jieitai removed all assignment restriction of female personnel including fighter pilots on NOV 2015.
- Assign various positions based on motivation, ability and aptitude.



Pilot



Space Operations



Aircraft MX



ATC



Weapon Control



Airlift



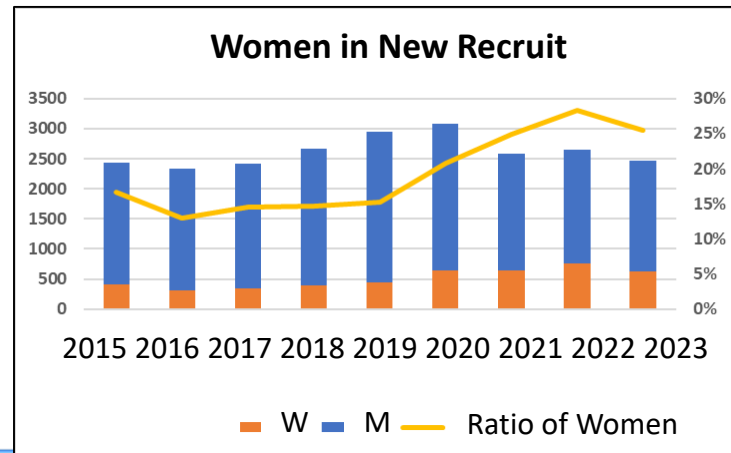
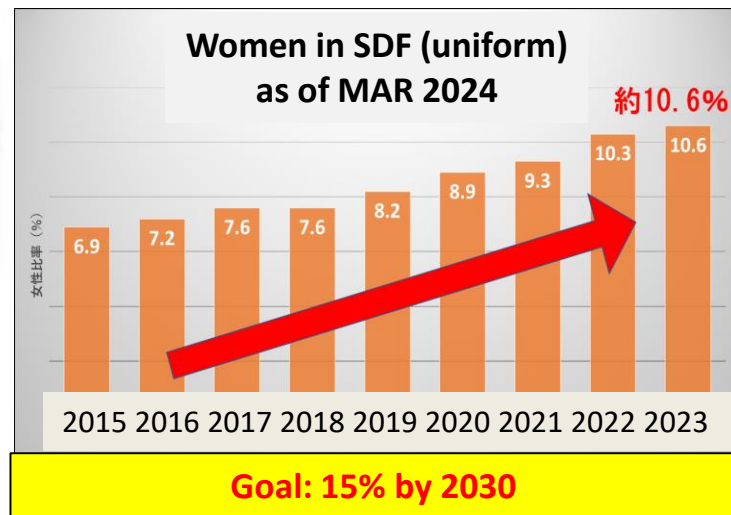
Medical Service



Music



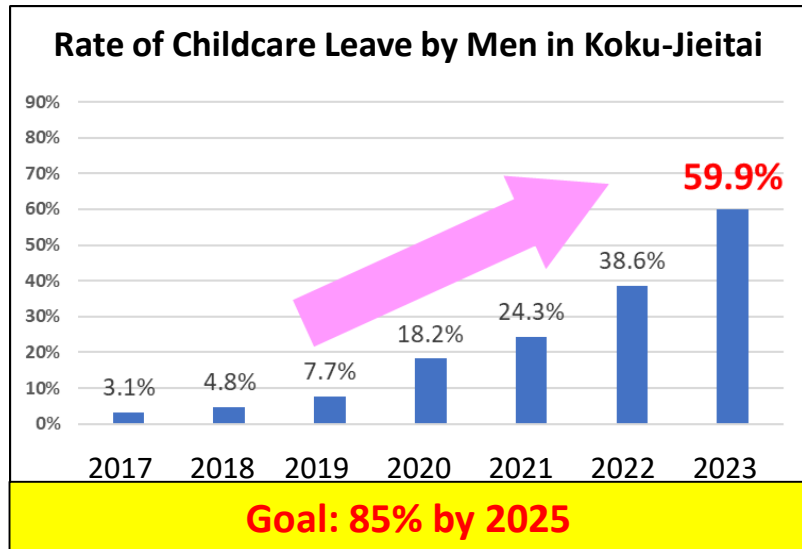
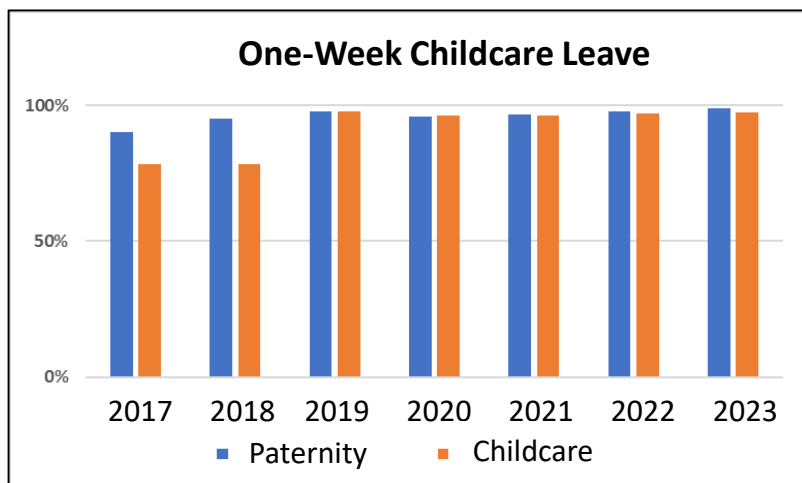
Weapons & Munitions





5 Efforts to Secure Human Resources (Men's Involvement in Family)

➤ Promote men's involvement in family to be compatible with child and family care.





6 Efforts to Prevent Harassment

➤ Make active efforts to **build an environment that does not allow harassment at all.**

Message from 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, commanding and emergency!" (to prevent harassment)

"Have good manners even between good friends." (to prevent sexual harassment)



Harassment Prevention Month (JAN - FEB 2024)

- **Retain knowledge** by learning some examples
- **Increase awareness** by writing statement
- **Do Not Do, Do Not Allow, and Do Not Overlook harassment**

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失墜させ、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が、
- 3 ハラスメントを目撃した場合は、決して見逃しませんが、
- 4 被害に遭った隊員には、しっかりと寄り添います。
- 5 ハラスメントを一切許容しない組織環境を構築します。

Build an environment that does not allow harassment



7 Exchange & 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 coordination frameworks with local authorities and improving disaster response capabilities

Training at Civilian Airports



- Familiar with using various civilian airports to response to any contingencies
- Explain carefully to local governments to gain understanding

Band Performances



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



Koku-Jieitai

Japan Air Self-Defense Force

【Website】 <https://www.mod.go.jp/asdf/>

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

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

【X】 https://twitter.com/JASDF_PA0

【Instagram】 https://instagram.com/jasdf_pao