



ARMÉE DE L'AIR

53rd INTERNATIONAL PARIS AIR SHOW
«INNOVATION TO WIN FROM THE AIR»

P R E S S F I L E

from June 14th to 23rd, 2019/Paris - Le Bourget

TOGETHER, TO WIN & PROTECT FROM THE AIR

Signature of the French Air Force ("Armée de l'Air") at the Paris Air Show

EDITORIAL

The International Paris Air Show at Le Bourget is a high point for this sector of French excellence, which makes such a major contribution to ensuring that the French Air Force has all the technological resources indispensable to the successful completion of its missions. The Paris Air Show is a rare opportunity for Air Force personnel to exchange information with industrial leaders on the needs encountered during operations and to share visions with their foreign partners concerning the potential developments of present and future systems. This team spirit, bringing together specialists from all over the world, is essential if we are to live up to our motto: "Together to win and protect from the air". **TOGETHER**, the expert technical and operational teams mutually support each other in a process of continuous innovation. Together, because the French armed forces work with our allies every day to serve the causes we share in common. Together, because our citizens share in the defence of our country and because young people represent its future.

TO WIN, because that is the ultimate aim when faced with cowardly and insidious terrorist attacks and a strategically uncertain environment. To win, the French Air Force is undertaking a thorough, in-depth modernization: for example, the Rafale F3R, equipped with long-range Meteor missiles and precision-guided AASM Air-to-Surface Modular Weapons, backed up and armed with our fleet of drones, helicopters with in-flight refuelling capability for long-range operations, radars of the GM200 and GM400 family, etc. In the near future, many of these systems and aircraft will be integrated in the Future Combat Air System (SCAF), which will enable collaborative and interconnected combat against denial of access capabilities that are developing rapidly.

AND PROTECT, the core mission of our Defence and of the Air Force, which keeps watch over our airspace and over our citizens night and day, wherever their security is at risk, especially through the expanded programme of A 330 "Phénix" tankers and A400M transport aircraft, which are significantly reinforcing our projection capacity.

FROM THE AIR, because the third dimension escapes the limitations of time and space and provides a strong political response, enabling France to intervene anywhere in the world.

Protecting from the air, and perhaps tomorrow also from space - an environment on which our society increasingly depends for its day-to-day functioning, and a strategic sector currently undergoing massive expansion, where we need to take the full measure of the challenges ahead.

Air Force General Philippe Lavigne,
General Chief of Staff of the French Air Force



+ Certified fighter pilot since 1989, Air Force General Philippe Lavigne has been the General Chief of Staff of the French Air Force since 31 August 2018. With a total of 2750 flying hours (Mirage 2000) and 50 war missions (former Yugoslavia/Iraq), he is an officer of the Legion of Honour, commander of the National Order of Merit and has been awarded the Croix de la Valeur Militaire (Cross for Military Valour). In the course of his career, he has commanded fighter squadron 1/5 "Vendée", Kabul International Airport, the French forces engaged in the "Pamir" mission and the Air Force Fighter Brigade (BAAC). He has also served at the operations planning and control centre, French Air Force command and as chief secretary of the French Chief of Defence Staff.

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53rd INTERNATIONAL PARIS AIR SHOW LE BOURGET
JUNE 17-23, 2019

53^e SALON INTERNATIONAL DE L'AÉRONAUTIQUE & DE L'ESPACE PARIS • LE BOURGET
17-23, JUIN 2019

Program

Friday 14/06/2019	Visit of the Le Bourget Projected Air Base, established as part of the special airspace security deployment by the General Chief of Staff of the French Air Force.
Monday 17/06/2019	Inauguration of the Paris Air Show by Emmanuel Macron, president of the French Republic • Opening with the Patrouille de France (French Aerobatic Patrol), the A330 Phenix and the Rafale Solo Display.
Tuesday 18/06/2019	15 h 00 to 17 h 00 : Conference presented by the National Military Aviation Authority (DSAE) at the CEMAA Chalet ▶ Demonstration: Rafale Solo Display
Wednesday 19/06/2019	Award of the aviation initiation certificate (BIA) by the Ecole de l'Air to pupils from the Paris Region ▶ Demonstration: Rafale Solo Display
Thursday 20/06/2019	11 h 00: Press conference with the Air Force Chief of Staff (CEMAA) / French Air Force Chalet ▶ Demonstration: Rafale Solo Display
Friday 21/06/2019	Cyber conference at the French Air Force Chalet on 21/06 at 17 h 00 Demonstrations on the Public Days open to general public:
Saturday 22/06/2019	✈ Patrouille de France ▶ Rafale Solo Display ✈ French Air Force Stunt Team (Equipe de Voltige)
Sunday 23/06/2019	✈ A400 Tactical Display* ▶ Demonstration and competition parachuting team of the French Air Force • In-flight Assistance* (Active Aviation Safety Measures).

Days
General public

*Depending on operational constraints

The French Air Force today

The Air Force is the armed force that is on permanent duty: 365 days a year, 7 days a week, 24 hours a day, the women and men of the French Air Force enthusiastically and resolutely ensure the defence and protection of France's interests, both at home and in the many theatres of operation where it is deployed. Every member of Air Force staff, in his or her own domain of competence, contributes to the success of the air missions.

PERMANENT protection of France, because the Air Force is responsible for implementing the airborne component of France's nuclear deterrent, under the orders of the President of the Republic.

PERMANENT protection of our airspace and its approaches, under the responsibility of the Prime Minister. This protection ranges from assistance to aircraft in difficulty to the capability to respond to threats of whatever nature. During the year 2018 alone, 300 abnormal situations were detected and handled by the French Air Force.

PERMANENT service in external operations, mainly in the Middle East, for almost five years now, and in the Sahel since 2013. Air Force personnel hunt down terrorists all the way to their dens, from the Sahelo-Saharan strip (Operation Barkhane) to the Middle East, where fighting continues against the enemy, which has now lost the territory conquered in 2014 (Operation Chammal, as part of the international coalition, in which France is the second biggest contributor behind the United States). In all these operations, the action of the French Air Force is decisive and guarantees the superiority of our forces. These operations rely on prepositioned facilities that can be used to mount a swift and forceful response almost as rapidly as from air bases in France. With these external air bases, "power projection" missions can be launched in only a few hours, on the decision of the President of the Republic, as commander-in-chief of the French armed forces.

This was again the case in 2018 against the chemical weapons installations in Syria. Agile and responsive, moulded by their passion, boldness and precision, the personnel of the French Air Force are bonded by a formidable team spirit that enables them, after more than a century of military aviation, to face the challenges of the future.



Air Force activity at Air Base 118 in Mont-de-Marsan, during an exercise

Protection of Le Bourget

The airspace protection “bubble” for the Paris Air Show has been made possible by French Air Force personnel, who, throughout the Show, and well ahead of it, have established a purpose-built, autonomous structure - the “projected air base” (BAP). They guarantee the reinforcement of the permanent operational air defence shield via the Special Airspace Security Deployment (DPSA).

The International Paris Air Show at Le Bourget is one of the largest international events for showcasing aviation and space equipment.

Since the first demonstration of “things of the air” at the Paris Car Show of 1908 in the Grand Palais, the Paris Air Show has never failed to thrill several thousand visitors. For the French Air Force, it is an event that cannot be missed. In the course of the Show’s history, many aircraft used by the French Air Force have been presented to reflect the state of progress of our military, from the exhibition of the “planes of victory” in 1919, to the Rafale in 2001, by way of the Mirage 2000 in 1979. For this edition, the Pilatus PC-21 and the A400 will be presented at the stand of the Ministry of the Armed Forces in the colours of the French Air Force.



The projected air base of the Paris Air Show operates on the same principle as the projected air bases used for Operations Chammal and Barkhane. As a fully-fledged combat system, it is an elementary tactical feature of the operational aerial component. Modular, responsive and reversible, with a compact footprint, it establishes the foundation for systematic and controlled implementation of the entire deployed aerial capacity (fighters and tactical and strategic transport aircraft). In external operations, the BAP significantly augments France’s intervention capabilities by bringing combat aircraft closer to the zone of operations (responsiveness - depth of action - permanent presence in the zone). On national territory, it provides the autonomy necessary to the teams deployed in close proximity to the event.

One preliminary requirement for the establishment of a BAP is the engagement of the units of the Air Force Manoeuvre Support Brigade (BAMAA). These units are able to create an operational air base in the middle of the desert, or at Le Bourget, completing the tasks of every department, including runway construction, infrastructure and the installation of communication networks.

During major national events, Air Force personnel regularly activate supplementary protection measures. “DPSAs” generally comprise a larger temporary no-fly zone, with controlled access.

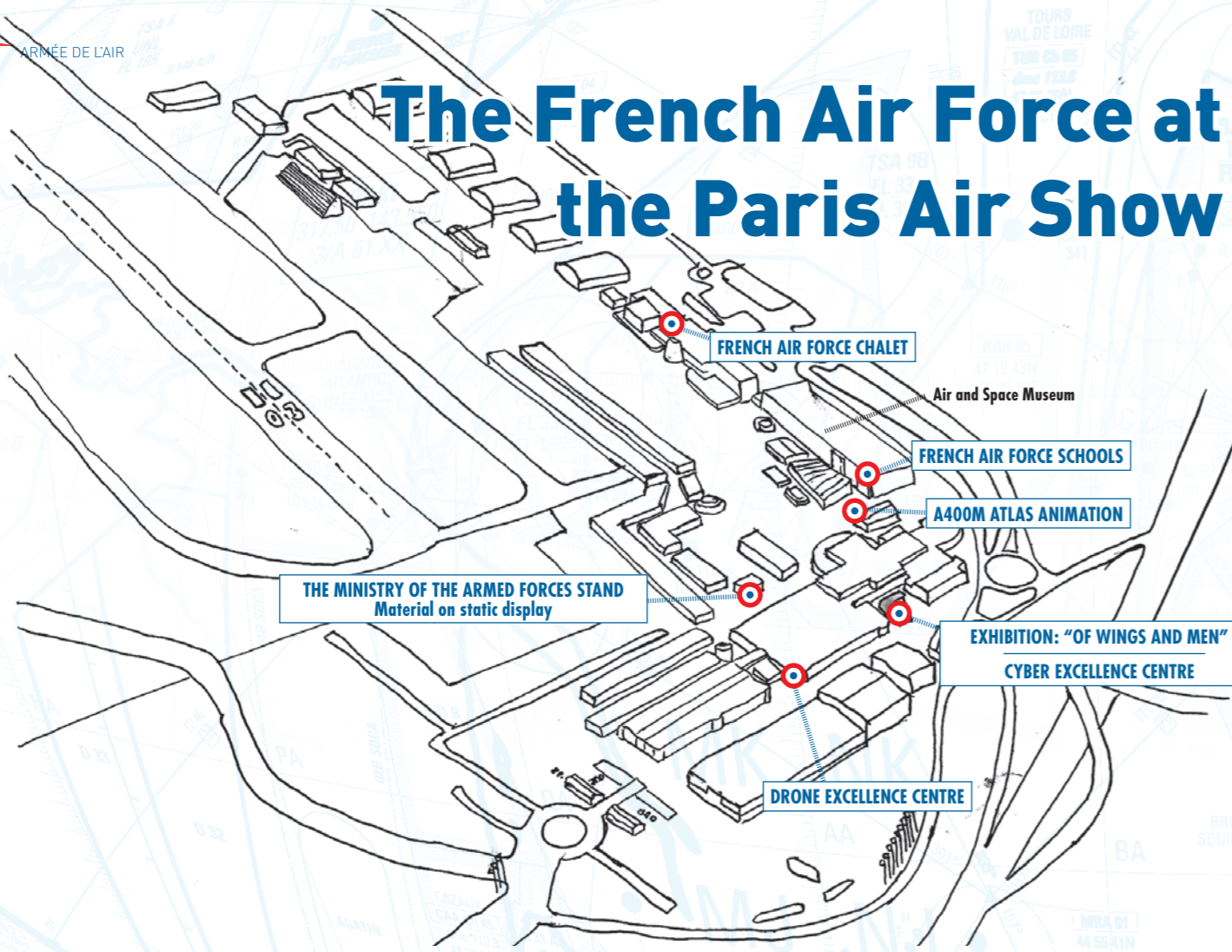
For the current edition of the Paris Air Show at Le Bourget the DPSA special deployment involves 500 Air Force personnel, mobilized day and night, and 285 metric tons of deployed equipment.



Protection squadron patrol during a Special Airspace Security Deployment (DPSA).

H24, 7/7, 500 Air Force personnels

The French Air Force at the Paris Air Show



Message for the Show from the Ministry of the Armed Forces

“Innovation to win from the air” is the message of the Ministry of the Armed Forces at the Paris Air Show. Innovation has been a key objective of France’s Ministry of the Armed Forces since the ministry’s inception, because innovation is vital to guaranteeing the country’s strategic independence and the operational superiority of its armed forces. This domain of innovation has recently been significantly advanced by the inauguration of the “Innovation Defence Lab”, a centre for equipment experimentation and development on behalf of the armed forces. The launch of the first Innovation Forum at the end of last year is also part of this dynamic progress. Innovation is in the DNA of all members of the Air Force. Innovation in the French Air Force is reflected by numerous projects and initiatives to meet the needs of deployment and to improve and adapt to specific working conditions. So, naturally, the 53rd International Paris Air Show includes a large section devoted to “Innovation” at the stand of the Ministry of the Armed Forces, especially since the military is fully mobilized to meet the challenge of innovation and integrate these immense goals in its daily operation”.

The Air Force is presenting the CORVUS drone (“CORVUS” is the French acronym of Ultralight Observation and Surveillance Detector for Special Operations Support). This drone improves operational support, in order to maintain an observation and engagement capacity. Adaptable to specific contexts (payloads adapted to the action, night and day cameras and a range of 10 km and more), it optimizes and preserves HR capacity.



“Innovation to win from the air”

Air Force personnel ...

...at the Paris Air Show

THE HUMAN RESOURCES DEPARTMENT OF THE FRENCH AIR FORCE



The expansion of the ministry, especially in the domains of intelligence and cyber defence, is the foundation for the creation of 6,000 jobs by 2025.

The French Air Force will recruit 3,500 people in 2019, both to carry out its missions and to maintain all its equipment in operational condition, as the guarantee of our capability to take action at any time and in any place.

Numerous posts are to be filled in this sector, at every level

of responsibility, whether as an NCO maintenance mechanic - for engine and fluid systems (plumbing and hydraulics) - or as an officer in charge of Maintenance in Operating Condition of our aircraft.

More than **30,000** people are employed on a daily basis by the French Air Force, and more than **10,000** others are employed under joint forces authority. All of these people share the values of respect, integrity, sense of service and excellence. As the founding principles of our institution, these values are among the fundamentals of the French Air Force.

Every year, the French Air Force **recruits and trains 3,500 future Air Force personnel**, aged from 17 to 25 years old, with education levels spanning from 9th grade/4th form to 5 years of higher education, **in more than 50 professions** - including aircraft maintenance, information technology, networks and telecommunications, intelligence, air traffic control, safety-protection and, of course, piloting and flight navigation.

More about www.devenir-aviateur.fr

THE ÉCOLE DE L'AIR



For this 2019 edition of the Paris Air Show, the École de l'Air will present visitors the career path of Officer Airman, an expert in the field of military aviation and an active-duty officer engaged on every theatre of operations. Created in 1935, the École de l'Air is a military school forming part of the French higher education system. Its mission is to train all the officers of the French Air Force by preparing them to become wartime combatants and military commanders, leaders and experts in the field of aviation and space. The School's programme develops aptitude to command, perseverance and the taste for action. At the same time as military training, the École de l'Air provides two recognized degree courses in engineering and political science. Since its creation, it has adopted the motto of famous WW1 fighter ace Georges Guynemer - "Faire Face", a French expression that commands boldness, honesty and resolution in the face of adversity.

THE DRONES EXCELLENCE CENTRE



For this 2019 edition of the Paris Air Show, the École de l'Air will present visitors the career path of Officer Airman, an expert in the field of military aviation and an active-duty officer engaged on every theatre of operations. Created in 1935, the École de l'Air is a military school forming part of the French higher education system. Its mission is to train all the officers of the French Air Force by preparing them to become wartime combatants and military commanders, leaders and experts in the field of aviation and space. The School's programme develops aptitude to command, perseverance and the taste for action. At the same time as military training, the École de l'Air provides two recognized degree courses in engineering and political science. Since its creation, it has adopted the motto of famous WW1 fighter ace Georges Guynemer - "Faire Face", a French expression that commands boldness, honesty and resolution in the face of adversity.

THE RAFALE MAINTENANCE SELF EVALUATION SYSTEM (RAMSES)



The Ecole d'Enseignement Technique de l'Armée de l'Air (EETAA), the French Air Force's Technical Training School will be presenting the Rafale Maintenance Self Evaluation System (RAMSES). This maintenance simulator for the RAFALE fighter aircraft is a digital tool offering a high level of realism. With RAMSES, young trainees, wearing a virtual reality headset or in front of an interactive screen, can familiarize themselves with all the operations that have to be carried out, either in conjunction with the pilot (installation, safety equipment etc.) or alone (technical checks) before a Rafale can be cleared for take-off.

THE EETAA

Every year, 180 young men and women enter EETA to work towards an exciting career in the aviation professions. Aged 16 to 18, these young technical students (nicknamed "Arpètes") complete their final two years of the French high school curriculum, from 11th to 12th grade (5th to 6th form). The permanent military framework, the resources available to the students and the working conditions contribute to providing a moral education and ensuring their success in the baccalauréat (the pass rate is close to 100%). Since 1949, the EETAA has trained more than 45,000 "arpètes", who have gone on either to join the military or to enter the aviation industry and civil society, as men and women true to their motto: "Arpète un jour, arpète toujours" (once an arpète, always an arpète).

At the Ministry's stand...

1 RAFALE F3R, TALIOS RECCE NG POD AND METEOR MISSILE



The omni-role characteristics of the Rafale make it a decisive asset for conducting the missions of the French armed forces. The Rafale is a fighter aircraft with optimized survivability. Its capabilities for aerial superiority, air-to-surface attack and reconnaissance enable it to perform all the air missions assigned to fighter aircraft. By the year 2023, the French Air Force will have the capability to project 20 Rafales overseas in less than 48 hours, thanks to the Rafale/Phénix combination. By 2025, the French Air Force will have 139 Rafales meeting the F4 standard. Pilots and weapons system NCOs will be present at the stand.

Fiche technique



2 PILATUS PC-21

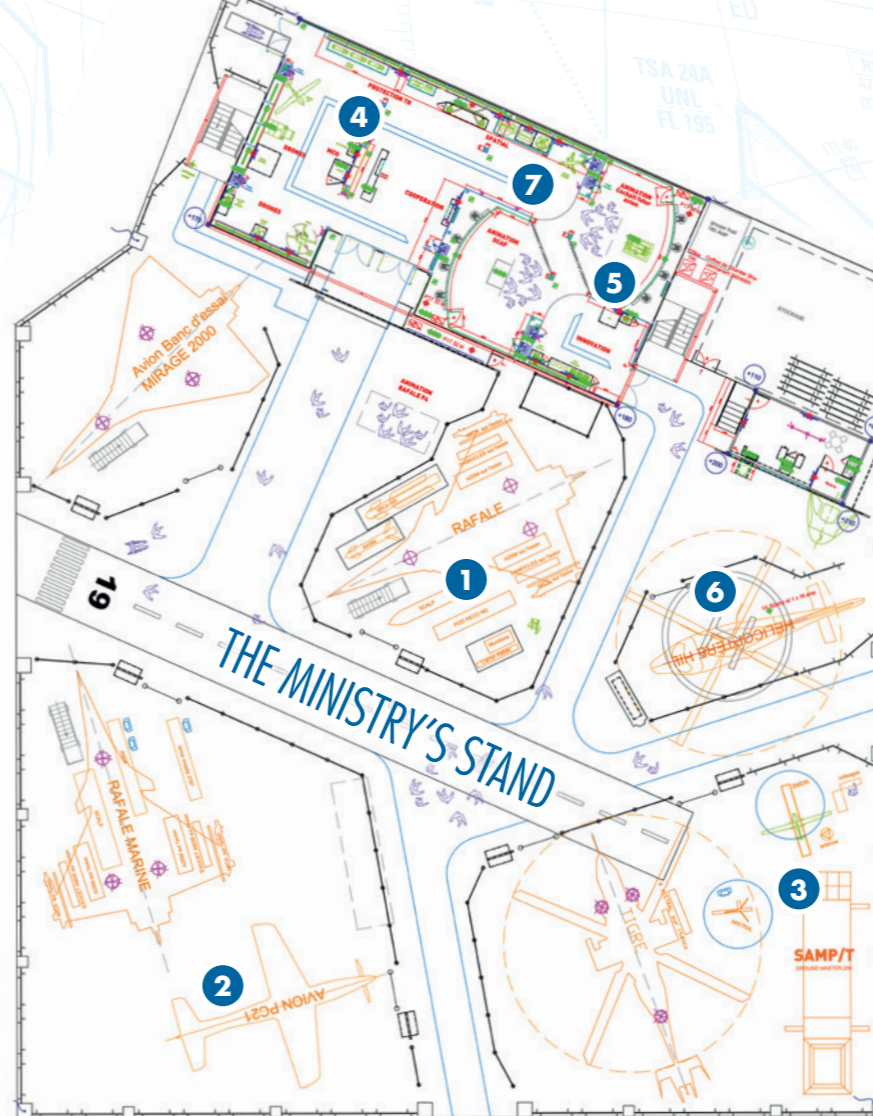


The Pilatus PC-21 is the new training aircraft for fighter pilots, navigators and weapons systems operators. Stationed at the French Air Force's pilot school at Air Base 709 in Cognac Château-Bernard, this new trainer will help to rationalize aircrew training. In 2019, the French Air Force has a total of 17 Pilatus PC-21s. The first promotion of trainee pilots will be received in June 2019. Through its capabilities, this trainer marks a major technological advance and comes significantly closer to the characteristics of a latest-generation fighter plane. Its embedded interactive simulation system provides highly representative simulations of tactical missions. An instructor and a student will be present at the aircraft.

Fiche technique



See map on page 15



3 SAMP MAMBA SURFACE-TO-AIR DEFENCE SYSTEM



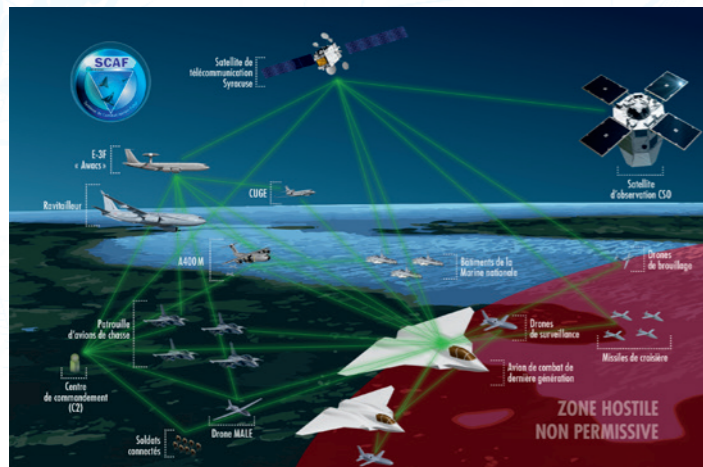
The SAMP MAMBA surface-to-air defence system plays a part in the protection missions of the French Air Force, especially during Special Airspace Security Deployments (DPSAs - see page 8). This latest-generation medium-range weapons system is capable of 360° detection and engagement of all types or air threat and is integrated in the air operations command and control network. As part of a global defence system, it ensures the control of our airspace. Operators will be present at the stand.

4 GROUND MASTER (GM) 200 AND 400 (MODEL)

The Ground Master GM 200 (medium range) and 400 (long range) are tactical air defence radar systems ensuring the detection and tracking of aerial targets flying from very low to high altitude. These radars help to protect France's national airspace and, in their transportable version, are also used in theatres of operation.

In the aisles...

5 THE FUTURE COMBAT AIR SYSTEM (SCAF)



The Future Combat Air System (SCAF) is a development programme for a system combining a new sixth-generation combat aircraft that is specially adapted to contemporary air threats, in combination with a broad range of interconnected and interoperable (drone-type) elements exploiting the potential of artificial intelligence. SCAF is a project involving numerous operational and technological challenges, as well as problems of national sovereignty. It converges on the joint operational needs of France, Germany and Spain.

6 GUEPARD JOINT LIGHT HELICOPTER (HIL) (full-scale model mockup)



The “Guépard” (cheetah) is a versatile 6-ton helicopter with a modular architecture that provides considerable openness for upgradeability and further development. With its common base for the three armed forces and its diverse range of optional kits, it is suitable for a wide variety of missions. With distance capabilities in excess of 400 nautical miles, the French Air Force plans to use this helicopter for its national airspace protection missions, civilian emergency rescue, combat search and rescue, operations intelligence and in-depth action.

[See map on page 15](#)



7 A330 PHÉNIX (mockup)



The French Air Force will have a total of 15 A330 Phenix aircraft by 2030.

The second A330 Phénix that will soon be delivered to the French Air Force is on show in a static display at the manufacturer’s stand. A mockup is presented at the stand of the Ministry of the Armed Forces. The receipt of the first Phénix in October 2018 at Air Base 125 in Istres opened up new perspectives for the Air Force. As part of France’s 2019-2025 Military Planning Law, the French Air Force is to receive a total of 15 A330 Phénix aircraft over the next few years. An essential feature of France’s airborne nuclear deterrent, the Phénix will also perform missions of in-flight refuelling of conventional capacities, personnel and freight transport, medical airlift evacuation and will act as communication and intelligence relay. A pilot, an in-flight refuelling operator and/or a cabin officer will be present at the stand or at the aircraft.

[See map on page 15 and further information on page 18.](#)

[See map on page 15 and further information on page 18.](#)

...of Le Bourget

+ A 400 M ATLAS



The A400 configuration on static display at the Show highlights the aircraft’s capacity not only for medical evacuation but also for transport, with the positioning of a Fenec helicopter in the hold (free visit).

In use by the 61st Transport Squadron stationed at Air Base 123 in Orleans; the A400 M “Atlas” has been operational since 2015. Today, it is assigned regular tours of duty to all France’s external theatres of operation and permanent overseas facilities. The A400M is a tactical aircraft with strategic capabilities and adds a new dimension to the transport fleet of the French Air Force. Its transport capacity, extended features and speed enhance France’s instant-response capabilities from the air bases located in continental France. Pilot and loadmasters will be present in front of the aircraft.

In the skies* ...

...of Le Bourget

+ RAFALE SOLO DISPLAY - 10 YEARS OF EXCELLENCE



Captain Sébastien Nativel « Babouc »

Presenter of the Rafale Solo Display since 2018 and instructor with the Rafale Transformation Squadron

"I'm proud to be here to celebrate our 10-year anniversary [...] The RSD team, for me, is what the French Air Force truly stands for - a very close-knit team with incredible professionalism. You have very little margin for error when you do this type of manoeuvre [...] I'm honoured to be the 5th pilot to preserve this guiding line".

+ A330 PHÉNIX



The French Air Force took delivery of its first A330 Phénix last October. As replacement for the C135, it will enable France to continue performing its deterrent mission for decades to come.

The modernization of our combat resources ensures that France's armed forces preserve their place at the head of Europe's defence forces and also ensures our independence, especially in external operations. Nuclear deterrence remains the key reason for the existence of the French Air Force's in-flight refuelling tankers. However, this new tanker will also, without interruption and with enhanced performance, perform missions for the refuelling of conventional capacities, personnel and freight transport and medical airlift evacuation and will serve as a communication and intelligence relay. The A330 Phénix of the French Air Force will take part in the opening ceremony of the Paris Show.

+ PATROUILLE DE FRANCE



With France's blue, white and red roundel, the Patrouille de France (PAF) is a unit of the French Air Force's Demonstration Teams. Its mission is to convey the values of France and of the French Air Force and to represent every member of the Air Force, who work every day in our institution. This mission as ambassadors imposes a high degree of adaptability, rigour and personal dedication, both in the air and on the ground. Flying AlphaJets, the PAF illustrates the top-class expertise that operational missions demand of Air Force personnel. The 9 pilots and 37 mechanics in the team all come from operational combat squadrons. The aerobatic demonstrations for the general public are planned and choreographed as a genuine aerial ballet.

These special encounters with the crew contribute to maintaining close relations between the nation and its Air Force.

The PAF will take part in the "Public Days" of the Paris Air Show open to the general public.

+ FRENCH AIR FORCE STUNT TEAM (EQUIPE DE VOLTIGE)



Since 1968, the French Air Force's "Equipe de Voltige" stunt team (EVA) has been a regular presence at meetings and competitions in France and abroad. Together with the Patrouille de France, it constitutes the French Air Force's Demonstration Teams. The EVA consists of 6 pilots, 6 mechanics, 2 photographers and 1 operating agent. Every year, the team participates in about forty air events around the world. The pilots of the EVA have an impressive list of accolades. They regularly take part in federal competitions in France and - in the case of those selected for the French team by the French Aviation Federation (FFA - Fédération Française Aéronautique) - in international competitions.

The EVA will take part in the "Public Days" of the Paris Air Show open to the general public.

+ A 400 M ATLAS*



The tactical demonstration team of the French Air Force for the A400M Atlas will be presenting its new programme at the Public Days open to the general public. The team will illustrate the expertise of the tactical transport squadrons in terms of manoeuvrability.

+ The 15th A400M was delivered to the French Air Force on 26 April 2019



Technical sheet



Presentation



Technical sheet



Presentation



Presentation

Of Wings and Men



EXHIBITION

The French Air Force will be presenting its exhibition "Des Ailes et Des Hommes" (Of Wings and Men) from Monday 17 to Sunday 23 June inclusive at Le Bourget Exhibition Centre.

The 11 members of Air Force personnel hosting this exhibition have been drawn from the various air bases in France to convey the values of the French Air Force and their personal experience with their own passion.

So, the public at the 53rd International Paris Air Show will be able to climb into a Mirage 2000, discover a virtual-reality Mirage 2000 flight simulator and a flight trainer for training the pilots of the French Air Force.

The exhibition also has a Drone animation, a cyber stand and several presentations on the theme of the air.

The French Air Force and Space

SPACE IN A FEW FIGURES

- Active satellites: 1,500
 - Unknown (unlisted) satellites: 30
 - Atmospheric re-entry of hazardous objects: approximately 1 per month.
 - Risk of collision: 7328 in 2017, including 14 high collision risks that triggered an alert at COSMOS.
 - Space debris: 750,000 "flying bullets" (1 cm); 20,000 fragments > 10 cm; 5,000 pieces of debris > 1 m
- Average debris speed: 25,000km/h

At the Show, you will be able to discover the "C2 Spatial" (Command and Control) function, which is used to control, plan, conduct and coordinate a wide range of missions:

- space support for operations,
- space situation surveillance,
- action in space.

During the night of 13 to 14 April 2018, air strikes were conducted in Syria from France. The preparations for this raid were conducted in close cooperation with COSMOS, to ensure good radar and radio transmission conditions and the absence of foreign satellite overflight.

France is the only European state to have a capacity for autonomous assessment of the space situation - detection and tracking of LEO satellites, space debris and atmospheric re-entry - by means of the GRAVES and SATAM radar systems of the French Air Force. The "COSMOS": Operational Centre for Military Surveillance of Space Objects also provides a "space weather" capability to monitor solar events that could potentially impact air operations.

From Air Base 942 in Lyon-Mont-Verdun, the COSMOS system for space objects provides a very precise daily situation report, combining data from all the many sensors. This Air Force Centre also provides France with a surveillance and anticipation capability. Cooperation between the French Air Force and civilian organizations, such as the National Centre for Space Studies (CNES) and the EASA, and also with our American partners, enables France to reinforce its role as expert on the international stage.



Display of debris and satellites orbiting the earth, objects monitored by COSMOS

Press Contacts



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