

# NACHBRENNER 2021

24.09.2021-19

*Wissenswertes aus dem Bereich Militärluftfahrt und Luftkriegsführung*

<b>Quelle:</b> <b>Datum:</b>	<b>Ländercode:</b> <b>Artikelname:</b>	<b>Schlüsselinformationen:</b>
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		<b>Sicherheitspolitik Schweiz und Air2030</b>
admin.ch 23.09.2021	Air2030: Projekt «neues Kampfflugzeug» holt Bronze in internationalem Projektmanagement-Wettbewerb	<p>armasuisse erreicht den dritten Platz beim internationalen IPMA Global Project Excellence Awards Wettbewerb mit dem Projekt "Neues Kampfflugzeug" (NKF). Die drei Finalisten in der Kategorie Gross-Projekte stammen aus Russland, Algerien und der Schweiz. Der Final hat am 22. September 2021 in St. Petersburg stattgefunden. Der Organisator des Wettbewerbs ist der weltweit anerkannte Projektmanagementverband IPMA (International Project Management Association).</p> <p><i>(Vollständige Medienmitteilung abrufbar unter:</i>  <a href="https://www.admin.ch/gov/de/start/dokumentation/medienmitteilungen.msg-id-85218.html">https://www.admin.ch/gov/de/start/dokumentation/medienmitteilungen.msg-id-85218.html</a><i>)</i></p>
vbs.admin.ch 21.09.2021	Parlament stimmt Kooperation mit Frankreich bei Satellitenbildern zu	<p>Die Schweiz erhält einen besseren Zugang zu Satellitenbildern. Nach dem Ständerat unterstützt auch der Nationalrat eine völkerrechtliche Rahmenvereinbarung mit Frankreich und den nötigen Verpflichtungskredit von 82 Millionen Franken.</p> <p><i>(Vollständige Medienmitteilung abrufbar unter:</i>  <a href="https://www.vbs.admin.ch/de/home.detail.news.html/vbs-internet/parlament/2021/210921a.html">https://www.vbs.admin.ch/de/home.detail.news.html/vbs-internet/parlament/2021/210921a.html</a><i>)</i></p>
tagesanzeiger.ch 21.09.2021	Parlament muss den Sachverhalt klären	<p>Die neuen Flugzeuge werden deutlich teurer als die bisher genannten 5 Milliarden Franken. Hinzu kommt noch die happige US-Teuerung. Transparenz sieht anders aus.</p> <p><i>(Vollständiger Artikel von Beni Gafner abrufbar unter:</i>  <a href="https://www.tagesanzeiger.ch/parlament-muss-den-sachverhalt-klaren-301056814154">https://www.tagesanzeiger.ch/parlament-muss-den-sachverhalt-klaren-301056814154</a><i>)</i></p>
ogzo.ch September 2021	Air2030 – Beschaffung und Einsatz der künftigen Luftverteidigungsmittel F-35A und PATRIOT	<p><b>EIN MUST!</b></p> <p>Es ist dem Vorstand der OGZO gelungen, die Vortragsreihe zum Projekt „Air2030 – NKF“ um einen weiteren interessanten Orientierungsanlass fortzusetzen. Wir werden am Samstag, 06.11.2021, einen Doppel-Vortragsanlass mit hochkarätiger Besetzung durchführen, und zwar mit dem <b>Kdt LW, Div Peter Merz</b> und dem <b>Chef-Test-Pilot der Armasuisse, Oberstlt Bernhard Berset</b>.</p> <p><b>6. November 2021</b>  <b>Zeit: 13:15 - 17:15</b></p> <p><b>Veranstaltungsort</b></p>

		<p><b>Gasthof Hirschen</b>  Zürichstrasse 2  8340 Hinwil</p> <p><i>(Details mit Anmeldeformular abrufbar unter:  <a href="https://ogzo.ch/events/air2030-das-projekt-zur-beschaffung-neuer-kampfflugzeuge-fuer-die-schweiz/">https://ogzo.ch/events/air2030-das-projekt-zur-beschaffung-neuer-kampfflugzeuge-fuer-die-schweiz/</a>)</i></p> <p><i>(Covid-19: «Bitte besuchen Sie regelmässig unsere WebSite <a href="https://ogzo.ch/events/air2030-das-projekt-zur-beschaffung-neuer-kampfflugzeuge-fuer-die-schweiz/">https://ogzo.ch/events/air2030-das-projekt-zur-beschaffung-neuer-kampfflugzeuge-fuer-die-schweiz/</a> (oder auch nur kurz <a href="https://ogzo.ch/">https://ogzo.ch/</a>) wo wir laufend auch über die Auswirkungen der Corona-Situation auf unseren Anlass aufmerksam machen.»)</i></p>
nebelspalter.ch 20.09.2021	"Wir leben in Frieden und Wohlstand, deswegen unterschätzen wir die Bedeutung der Luftwaffe" Markus Gygax zu Gast bei Reto Brennwald	<b>EIN MUST!</b>  <i>(Interview abrufbar unter:  <a href="https://www.nebelspalter.ch/wir-leben-in-frieden-und-wohlstand,-deswegen-unterschaetzen-wir-die-bedeutung-der-luftwaffe-markus-gygax-zu-gast-bei-reto-brennwald">https://www.nebelspalter.ch/wir-leben-in-frieden-und-wohlstand,-deswegen-unterschaetzen-wir-die-bedeutung-der-luftwaffe-markus-gygax-zu-gast-bei-reto-brennwald</a>)</i>
sekretariat@forum-sicherheit-schweiz.ch 17.09.2021	Einladung 9. FSS Security Talk - Sicherheitskräfte in einem modernen Staat	Einladung zum 9. FSS Security Talk zum Thema «Sicherheitskräfte in einem modernen Staat» einzuladen. Die Veranstaltung findet am Mittwoch, 27. Oktober 2021, von 18:00 bis ca.20:00 Uhr im Hotel Bellevue Palace, Bern statt und wird vom FORUM SICHERHEIT SCHWEIZ (FSS)organisiert.  <i>(Anmeldung online oder via E-Mail an: <a href="mailto:sekretariat@forum-sicherheit-schweiz.ch">sekretariat@forum-sicherheit-schweiz.ch</a> unter:  <a href="file:///C:/Users/Standard/AppData/Local/Temp/9.FSS-Talk-Flyer_dt-2.pdf">file:///C:/Users/Standard/AppData/Local/Temp/9.FSS-Talk-Flyer_dt-2.pdf</a>)</i>
lockheedmartin.com 13.09.2021	Pentagon and Lockheed Martin Agree to F-35 Sustainment Contracts - Supporting Readiness for the Warfighter While Reducing Costs	The F-35 Joint Program Office awarded the Lockheed Martin industry team annualized contracts covering fiscal years 2021-2023 to support operations and sustainment of the global F-35 fleet, supporting mission readiness and further reducing costs. "Together with the F-35 Joint Program Office, we recognize the critical role the F-35 plays in supporting our customers' global missions and the need to deliver this capability affordably," said Bridget Lauderdale, Lockheed Martin vice president and general manager of the F-35 program. "These contracts represent more than a 30% reduction in cost per flying hour from the 2020 annualized contract and exemplify the trusted partnership and commitment we share to reduce sustainment costs and increase availability for this unrivaled 5th generation weapon system."

		<p>The FY2021-2023 contracts represent a planned next step in further reducing overall operations and support costs for the F-35 program, which are shared between government and industry. Lockheed Martin has reduced our cost per flight hour by 44% in the past five years, with a forecasted reduction of an additional 40% in the next five years. The cost savings in the FY21-23 annualized sustainment contracts support Lockheed Martin's efforts to realize these goals. The savings will be achieved through improved cost and velocity in our supply chain, continued reliability improvements, and greater manpower efficiencies to provide product support solutions across the growing, global fleet. We remain committed to partnering with our customers and teammates to drive F-35 sustainment costs down.</p> <p>Program data shows the F-35's reliability continues to improve as the jet is approximately twice as reliable as fourth generation fighters. It also shows maintenance labor hours needed per flight hour are well within the contractual requirement, while the global fleet is averaging around 70% mission capable rates. Lockheed Martin has significantly lowered its share of cost per flight hour over the last five years, and the broader F-35 team is working across government and industry to achieve greater affordability.</p> <p>More than 690 aircraft have been delivered and are operating from 21 bases around the globe. More than 1,460 pilots and 11,025 maintainers have been trained and the F-35 fleet has surpassed 430,000 cumulative flight hours.</p>
sandro.naef@gmx.ch 10.09.2021	Gründung Verein "Swiss F-35 Club"	<p>Am Freitag 10.09.2021 war es soweit. Wir haben unseren Verein "Swiss F-35 Club" gegründet. Die Statuten wurden festgelegt und die Ziele des Vereins bestimmt. Danach folgte die Wahl der Gründungsmitglieder in derer jeweiligen Funktionen. Zuerst in den Vorstand, danach in ihre einzelnen Positionen. Gewählt wurden wie folgt:</p> <ul style="list-style-type: none"> <li>° Sandro Näf: Präsident, Social Media</li> <li>° This Wolfensberger: Vize Präsident, Shop</li> <li>° Thomas Freimüller: Finanzen, Administration</li> </ul> <p>Wir freuen uns auf Euch!</p>
vbs.admin.ch 10.09.2021	Schweizerische Sicherheitspolitik im	Wie wappnet sich die Schweiz gegen Gefahren? Warum hat sich der Bundesrat für das Kampfflugzeug F-35A entschieden? Im Talk des Schweizerischen Instituts für Auslandforschung an der Uni Zürich steht

	europäischen und globalen Kontext	Verteidigungsministerin Viola Amherd zum Thema «Schweizerische Sicherheitspolitik im europäischen und globalen Kontext» Red und Antwort.  (Videoaufzeichnung des Gesprächs abrufbar unter: <a href="https://www.youtube.com/watch?v=h0Mx4o9-QQE">https://www.youtube.com/watch?v=h0Mx4o9-QQE</a> )
		<b>Luft- und Marineluftstreitkräfte sowie strategische und weitere luftgestützte Einsatzmittel</b>
defenceweb.co.za 22.09.2021	NGA: Last Nigerian Super Tucanos headed home	The final batch of six A-29 Super Tucanos destined for the Nigerian Air Force (NAF) have left the United States, and are due to arrive in Nigeria by month-end. The six aircraft, out of an order for 12, departed Moody Air Force Base on 15 September. The 12 Super Tucanos were acquired under a nearly \$500 million Foreign Military Sale (FMS), with the aircraft manufactured by Brazil's Embraer and the United States' Sierra Nevada Corporation. The US Embassy pointed out that the Nigerian Super Tucano deal is the largest FMS programme in sub-Saharan Africa. It includes spare parts for several years of operation, contract logistics support, munitions, and a multi-year construction project to improve Kainji Air Base infrastructure. The Super Tucanos will assist the Nigerian Air Force in their fight against violent extremist organizations including the Islamic State West Africa Province.
airforcemag.com 22.09.2021	USAF: Contract for New B-52 Engines 'Imminent'	The contract to re-engine the B-52 bomber should be awarded by the end of this month, senior service acquisition officials reported Sept. 21. The program seeks to replace the B-52's original-equipment TF30 engines with new business-class powerplants that should improve fuel burn by 30 percent and range by 40 percent, while requiring far less maintenance. Offerers have said their engines are so reliable that they will not need to come off the wing of the B-52 for an overhaul during the bomber's remaining lifetime.
defbrief.com 21.09.2021	CAN : Canada upgrading Hornets with AESA radars	On September 20, the US defense department announced a \$140.3 million contract for the company, under which it will deliver 36 AN/APG-79(V)4 radar systems for Canadian Hornets. Canada is investing in its Hornet fleet with the aim of keeping them in the air until 2032. The country is currently in the process of identifying its future fighter after receiving proposals from Saab, Lockheed Martin, and Boeing as part of the Future Fighter Capability Project. Before the first future fighters are delivered sometime in 2025, Canada will have to keep its Hornets operationally relevant. In addition to procuring new AESA radars, the country is also investing

		<p>Sidewinder AIM-9X Block II air to air missiles allowing its 94 Hornets, which includes the 18 second-hand airframes procured from Australia, to continue meeting NORAD and NATO commitments.</p> <p>The same AN/APG-79(V)4 radar procured by Canada is also being delivered for legacy US Marine Corps Hornets. The active electronically scanned array (AESA) radar is powered by gallium nitride (GaN) and helps pilots detect and track enemy aircraft from farther distances and with more accuracy.</p>
taiwannews.com.tw 21.09.2021	TWN: Taiwan to commission first upgraded F-16V combat wing in November	The Air Force will commission its first combat wing of 42 upgraded F-16V fighter jets in November, reports said Tuesday (Sept. 21). Taiwan has purchased 66 new F-16Vs from the United States, but in the meantime, it has been upgrading its 141 F-16A/B aircraft to F-16Vs by adding modern electronic systems, CNA reported. The program is expected to be finished by 2023, when the new jets start arriving, but a first group of 42 has been completed, allowing them to be commissioned into the Air Force. The upgraded aircraft will be stationed at the Chiayi Air Force Base, while the new F-16Vs will be housed on the east coast at the Zhihang Air Force Base in Taitung County, reports said.
janes.com 21.09.2021	GBR: RAF receives sixth Poseidon MMA	The sixth of nine Boeing P-8A Poseidon MRA1 maritime multi-mission aircraft (MMA) for the Royal Air Force (RAF) arrived in the United Kingdom on 21 September.
janes.com 20.09.2021	ARG: Argentina allocates JF-17 funding in latest fighter recapitalisation twist	Argentina has allocated funding to procure the Chengdu Aircraft Corporation (CAC)/ Pakistan Aeronautical Complex FC-1/JF-17 in the country's latest effort to recapitalise its fighter aircraft capabilities. Announced on 15 September, the draft budget for fiscal year (FY) 2022 includes USD664 million towards the purchase of 12 JF-17 Thunder Block III jets (including USD20 million for infrastructure). This development marks the latest step in Argentina's attempts to buy a new combat type that go back several years. Having retired its Dassault Mirage III EA and Israeli Aerospace Industries (IAI) Dagger fleets, and with the Lockheed Martin A-4AR Fightinghawks suffering availability issues, the Argentine Air Force (Fuerza Aérea Argentina – FAA) has scoured the globe for a replacement aircraft type.
navair.navy.mil 20.09.2021	USMC: Harvest HAWK + reaches full operational capability	The Tactical Airlift Program Office (PMA-207) KC-130J integrated product team successfully completed full operational capability. The 10th and final aircraft modified to the Harvest Hercules Airborne Weapons Kit (HAWK) Plus (HH+) configuration was delivered to the Fleet Marine Forces, Aug. 26. The aircraft modifications were part of the Marine Corps KC-130J Intelligence Surveillance and Reconnaissance (ISR) / Weapons Mission Kit program that began in 2015. The program improved the existing Marine Corp KC-130J Harvest HAWK system

		<p>by integrating the MX-20 electro-optical/infra-red multi-sensor imaging system and adding door mounted missile employment capability.</p> <p>Harvest HAWK+ aircraft modifications began in 2015 with the first aircraft delivering in October 2015. NAVAIR's aircraft prototype systems division at Naval Air Station Patuxent River, Md. modified the first six aircraft while Sierra Nevada Corporation in Colorado Springs, Co. modified the last four aircraft. Five HH+ aircraft were delivered to Marine Aerial Refueler Transport (VMGR) 352 in Miramar, California and four aircraft to VMGR-252 in Cherry Point, North Carolina. One HH+ aircraft will remain at VX-20 in Patuxent River for Block 8.1 and future HH+ testing.</p>
<p>scmp.com 18.09.2021</p>	<p>CHN: Chinese magazine praises J-20 fighter, but experts doubt it can rule the skies</p>	<p>An influential Chinese military magazine has said that the Chengdu J-20 is likely to appear in more training exercises – but analysts say its inferior engine and the air force's lack of strategic transporters will limit the country's ambitions. The report said the aircraft had entered mass production and output would increase year by year, without giving numbers. But analysts doubt whether the J-20 alone can enable China's air force to compete with other countries, especially the United States. Ridzwan Rahmat, principal defence analyst at Janes, said a major weakness of the J-20 remained unresolved: its engine. "A significant number of airframes in service still rely on Russia-supplied engines," Rahmat said. "This engine can produce only about 125 kilonewtons of thrust, which pales in comparison with fifth-generation fighters operated by China's rivals, such as the F-22 and the F-35."</p> <p><i>(Vollständiger Artikel abrufbar unter:</i> <a href="https://www.scmp.com/news/china/military/article/3149198/chinese-magazine-praises-j-20-fighter-experts-doubt-it-can-rule">https://www.scmp.com/news/china/military/article/3149198/chinese-magazine-praises-j-20-fighter-experts-doubt-it-can-rule</a><i>)</i></p>
<p>economictimes.com indiatimes.com 18.09.2021</p>	<p>IND: Indian Air Force signs deal with French Air Force to purchase phased out Mirage aircraft</p>	<p>In a step that will help in sustaining its fleet of Mirage-2000 fighter aircraft, the Indian Air Force (IAF) has signed a contract to buy phased out Mirages of the French Air Force, as per government sources. "A squadron of the French Mirage jets had been phased out some time ago. On August 31, a contract was signed for acquiring these phased-out planes to improve the spares and airframe capability to help improve the serviceability of the around 50 Mirage-2000s in the Indian fleet," government sources said.</p> <p><i>(Ergänzende Information hindustantimes.com vom 17.09.2021: The Indian Air Force (IAF) is set to acquire 24 second-hand Mirage 2000 fighters, made by Dassault Aviation, in an attempt to strengthen its ageing fleet of the fourth-generation fighters and also secure parts for its two existing squadrons of the aircraft, people familiar with the matter said on condition of anonymity. Out of the 24 Mirage fighters, 13 are in complete condition with engine and airframe intact with eight of them ready to fly after servicing.)</i></p>

<p>tass.com 17.09.2021</p>	<p>RUS: Defense Ministry may consider purchase of Checkmate fighter — deputy prime minister</p>	<p>Russia's Defense Ministry may consider the purchase of single-engine Checkmate fighters under a future state program for armaments, Deputy Prime Minister Yuri Borisov told the media on the sidelines of the Tyumen Oil and Gas Forum.</p> <p>"Under a future state program for armaments the Defense Ministry and the Aerospace Force may consider the possibility of purchasing this fighter," Borisov said. "As far as I know, the beginning of flight tests is scheduled for 2023. Mass production (on the condition of sufficient demand) may begin in 2025-2026. This deadline is quite realistic," Borisov said. "Otherwise, we will be unable to enter this market where US and Chinese (single-engine) models already rule the roost.</p> <p>The fighter-jet Checkmate was for the first time presented at the MAKS air show last July. It is positioned as an alternative to the United States' FA-35A Lightning II and Sweden's JAS-39 Gripen. Checkmate's potential market is estimated at 300 pieces. Alongside the domestic market the plane may be addressed to countries in Africa, India and Vietnam. The plane, likely to be indexed Sukhoi-75, will be assembled at a plant in Komsomolsk-on-Amur. Checkmate boasts stealth features and is equipped with an intra-fuselage compartment for air-to-air and air-to-surface missiles (a payload of over seven tonnes). The single-engine supersonic Mach 1.8 fighter has a combat range, 3,000 kilometers and is capable of hitting up to six targets simultaneously.</p>
<p>lockheedmartin.com 17.09.2021</p>	<p>USAF: Lockheed Martin Offers the LMXT for the U.S. Air Force's KC-Y Program</p>	<p>In response to the U.S. Air Force's KC-Y Program Lockheed Martin offers LMXT, America's Next Strategic Tanker. The LMXT complements the U.S. Air Force's tanker capabilities by providing the most advanced aerial refueler to meet America's immediate and long-term mission requirements. The Lockheed Martin strategic tanker builds on the combat-proven design of the Airbus A330 Multi Role Tanker Transport (MRTT). As the prime contractor, Lockheed Martin works directly to implement U.S. Air Force-specific requirements within the LMXT. As the strategic tanker of choice for 13 nations, the MRTT has logged more than 250,000 flight hours refueling U.S. and allied fighter, transport and maritime patrol aircraft in combat theater environments.</p> <ul style="list-style-type: none"> <li>• Significantly improved range and fuel offload capacity</li> <li>• A proven fly-by-wire boom currently certified and used by allies to refuel U.S. Air Force receiver aircraft in operations around the world</li> <li>• The world's first fully automatic boom/air-to-air refueling (A3R) system</li> <li>• Operational and combat proven advanced camera and vision system</li> <li>• Open system architecture JADC2 systems</li> </ul>

		<ul style="list-style-type: none"> <li>• A multi-domain operations node that connects the LMXT to the larger battlespace, increasing onboard situational awareness to provide resilient communications and datalink for assets across the force</li> </ul>
<p>pna.gov.ph 16.09.2021</p>	<p>PHL: PH can't get F-16 jets for now due to budget woes</p>	<p>Defense Secretary Delfin Lorenzana on Thursday said the Philippines is unlikely to acquire Lockheed Martin F-16 jet fighters for its multi-role fighter (MFR) program for now due to budgetary constraints. "For now, it is very unlikely that we will be able to acquire F-16s as our budget for (the MRF project) will only allow us to get two (if we will proceed). And if we will decide to acquire the Gripen, the Swedish-made fighter aircraft, (Saab JAS-39), we can get six)," Lorenzana said in an online press briefing.</p>
<p>janes.com 15.09.2021</p>	<p>POL: Leonardo to offer M346 FA to Polish Air Force</p>	<p>Leonardo Poland is to offer its M346 FA (Fighter Attack) aircraft to replace the Polish Air Force's obsolete Su-22 M1.</p>
<p>tinker.af.mil 14.09.2021</p>	<p>TUR: Directorate leads KC-135 upgrade for Turkish Air Force</p>	<p>The first of seven Turkish KC-135R Stratotanker aircraft recently returned to Turkey after receiving a major flight deck upgrade at Field Aerospace, Oklahoma City. A second Turkish KC-135 is currently undergoing the new modification, with the remaining fleet expected to receive the update no later than 2023.</p>
<p>globaltimes.cn 14.09.2021</p>	<p>CHN: PLA's Y-9 transport aircraft makes record-breaking 40 hours flight</p>	<p>In a recent mission abroad, a Y-9 transport aircraft of the Chinese People's Liberation Army (PLA) broke several records by taking off and landing in an airfield in a high-elevation plateau region and flying for nearly 40 consecutive hours and more than 10,000 kilometers, China Central Television (CCTV) reported on Tuesday. The aircraft is affiliated to an aviation regiment under the Air Force of the PLA Western Theater Command, which is also the first PLA unit that completed takeoff and landing operations with a domestically developed transport aircraft in an airport at an elevation above 2,438 meters, the report said.</p> <p>A number of the PLA's special mission airplanes, including the KJ-500 early warning aircraft, Y-8 anti-submarine warfare aircraft and Y-8 electronic warfare aircraft, share the similar base platform as the Y-9 since they were all developed from the Y-8 transport aircraft, the expert pointed out. This means the other special mission variants could have similar characteristics as the Y-9, the expert said.</p>
<p>pilatus-aircraft.com 14.09.2021</p>	<p>ESP: Die spanische Luftwaffe erhält den ersten PC-21</p>	<p>Die in San Javier, Murcia stationierten Spanischen Luftstreitkräfte, die Ejército del Aire, nehmen ihren ersten PC-21 entgegen und integrieren ab sofort das weltweit modernste Trainingssystem von Pilatus. Total 24 PC-21 wird Pilatus bis im Juni 2022 nach Spanien liefern und damit die Pilotenausbildung der Luftwaffe auf ein «State-of-</p>

		the-Art Level» hieven. Das PC-21 Trainingssystem beinhaltet nebst dem eigentlichen Flugzeug modernste Simulatoren, computergestützte Ausbildungen und «Virtual Reality Tools».
afsoc.af.mil 14.09.2021	USAF: Amphibious modification to an MC-130J Commando II	The C-130J is an incredibly versatile aircraft, and since it's creation, it's landed on rough fields, in arctic locations and even an aircraft carrier Yet, it cannot land on water, which covers about 71% of the planet. As national strategic objectives shift focus to littoral regions, Air Force Special Operations Command is advancing new approaches to expand the multi-mission platform's runway independence and expeditionary capacity. In partnership with the Air Force Research Lab's Strategic Development Planning and Experimentation (AFRL-SDPE) directorate, AFSOC is developing an MC-130J Commando II Amphibious Capability (MAC) to improve the platform's support of seaborne special operations. he development of a removable amphibious float modification for an MC-130J would enable "runway independent" operations, which, according to Trantham, would extend the global reach and survivability of the aircraft and Air Commandos. "Seaborne operations offer nearly unlimited water landing zones providing significant flexibility for the Joint Force," Lt Col Josh Trantham, AFSOC Science, Systems, Technology, & Innovation (SST&I) Deputy Division Chief, said. A five-phase rapid prototyping schedule will lead to an operational capability demonstration in only 17 months while de-risking the concept for a future potential MAC program of record that could field MAC for MC-130Js but also potentially field a similar amphibious capability for other C-130 variants with only minor variations.
defense.gov 13.09.2021	USN: F-35	Lockheed Martin Aeronautics Co. is awarded a not-to-exceed \$411,810,561 firm-fixed-price, cost-plus-fixed-fee, indefinite-delivery/indefinite-quantity undefinitized contract. This contract procures initial spares to include global spares packages, base spares packages, deployment spares packages, and afloat spares packages in support of F-35 Lightning II Joint Strike Fighter air vehicle delivery schedules for the Navy Marine Corps, Air Force, non-U.S. Department of Defense participants, and Foreign Military Sales customers. Work is expected to be completed in September 2026.
defense.gov 13.09.2021	USN F-35	Lockheed Martin Corp. is awarded a \$2,014,074,283 cost-plus-fixed-fee, cost-plus-incentive-fee, fixed-price-incentive-fee contract definitization. This contract provides logistics support, to include ground maintenance activities, action request resolution, depot activities, automatic logistics information system operations and maintenance, reliability and maintainability, supply chain management, pilot training, maintainer training, and training system sustainment in support of delivered F-35 Lightning II Joint Strike Fighter air systems for the Navy, Marine Corps, Air Force, Foreign Military Sales (FMS) customers and non-U.S. Department of Defense (DOD) participants. Work is expected to be completed in December 2021.

<p>gov.uk 12.09.2021</p>	<p>RAF: £400m investment for the Royal Air Force – C-17</p>	<p>UK's C-17 fleet – which recently played a key role in the UK's evacuation from Afghanistan – will receive a £324 million investment. This will upgrade software and hardware to improve airlift capability as part of a contract with the US Air Force. Upgrades will include enhancements to the 'Beyond Line of Sight' satellite-enabled communication equipment, a wider field of view via the 'Head-Up Display' in the cockpit to help increase pilot situational awareness and widening the scope of the current free-fall parachuting capability.</p>
<p>latribune.fr 12.09.2021</p>	<p>GRC: Greece places new Rafale order</p>	<p>After the agreement on the sale of 18 copies of the Rafale fighter jet (12 used aircraft and six new), the Greek Prime Minister announced this weekend his wish to order six more, bringing the order to Dassault Aviation to 24 aircraft. Faced with heavy tensions with Turkey, Greece, a NATO member like Turkey, has decided to significantly strengthen its defense capabilities. "I announced the purchase of 18 Rafale. There will soon be 24," Greek Prime Minister Kyriakos Mitsotakis said Saturday at the Thessaloniki International Motor Show, a decision immediately welcomed by Florence Parly, French Minister of Defense, this Sunday.</p>
<p>janes.com 10.09.2021</p>	<p>IDN: Indonesia proceeds with plans to buy new C-130J-30 transport aircraft</p>	<p>The Indonesian Air Force (TNI-AU) has confirmed plans to buy additional Lockheed Martin C-130-series tactical transport aircraft. In a statement released on 7 September during a visit to Lockheed Martin's C-130J production site, TNI-AU Chief of Staff Air Marshal Fajar Prasetyo said that the additional C-130Js will enhance Indonesia's airlift capabilities, adding that the platform will continue to be the backbone of TNI-AU operations, including for humanitarian assistance and disaster relief missions. During his visit to the United States, the air marshal was photographed next to a C-130 cockpit section bearing the Indonesian flag: an indication that production of at least one aircraft is ongoing. This was later confirmed by Lockheed Martin, which lists Indonesia among its customers for the stretched version of the aircraft: the C-130J-30. A company spokesperson told Janes on 10 September that Jakarta has thus far placed orders for five C-130J-30s.</p>
<p>baesystems.com 07.09.2021</p>	<p>DARPA/BAE: BAE Systems selected by DARPA to progress revolutionary aircraft design and testing</p>	<p>The U.S. Defense Advanced Research Projects Agency (DARPA) awarded the contract to BAE Systems to design a full scale demonstrator concept with Active Flow Control at its core. The aircraft's ability to maneuver in flight without conventional flight control surfaces will enable improved performance, maintainability, and survivability. The contract will see BAE Systems mature design, integration, and de-risking activities, including wind tunnel testing at its facilities in the North West of England in 2022.</p> <p>The contract award forms part of DARPA's Control of Revolutionary Aircraft with Novel Effectors (CRANE) project, which intends to inject Active Flow Control technology early into the aircraft design process to demonstrate significant efficiency benefits, as well as improvements to aircraft cost, weight, performance, and reliability.</p>

		As military aircraft confront increasingly contested and sophisticated threat environments, Active Flow Control offers potential military benefits that could deliver operational advantage in the battlespace. Active Flow Control technologies can supplement or replace conventional moveable control surfaces to improve the performance of an aircraft at various points in the flight regime, as well as reduce mass and volume compared to aircraft with conventional controls to enable greater payloads and greater flexibility to the operator.
defense.gouv.fr 06.09.2021	FRA: The Ministry of the Armed Forces receives its fifth A330 MRTT Phoenix aircraft	On September 2, 2021, the Directorate General of Armaments (DGA) received the fifth A330 MRTT(Multi Role Tanker Transport) Phoenix multi-role tanker aircraft at The 125 "Charles Monier" air base in Istres (Bouches-du-Rhône). This is the second of three MRTTs scheduled to be received by the DGA in 2021. By the end of 2023, twelve Phoenixes will have been delivered to the Air and Space Force (AAE), in accordance with the Military Programming Law (LPM) 2019-2025 and the wish of the Minister of the Armed Forces to accelerate their delivery by two years. The A330-MRTT Phoenix is a multi-purpose aircraft derived from the Airbus A330 airliner. The breadth of its capabilities allows it to replace several fleets of separate older generation aircraft: the C135-FR and KC135-RG for air-to-air refueling, and the A310 and A340 for strategic personnel and cargo transport.
		<b>Hubschrauber und Kipprotor-Flugzeuge</b>
janes.com 21.09.2021	ITA: Italy receives final MH-90 MITT TTH helicopter	Italy has taken delivery of its final NHIndustries MH-90 Maritime Italian Navy Tactical Transport (MITT) Tactical Transport Helicopter (TTH) helicopter, the manufacturer announced on 17 September. The MH-90 MITT TTH will be used by the Italian Navy for amphibious support and special forces operations. The 10 MH-90s have been procured by the Italian Navy in addition to 46 NH90 NATO Frigate Helicopter (NFH) variants, 38 of which have been received to date. The service's designation of the NH90 NFH in the anti-submarine warfare and anti-surface vessel warfare roles is SH-90A.
scmp.com 21.09.2021	CHN/RUS: China military: PLA in market for Russian Ka-52K heavy attack helicopters	China is considering buying three dozen Russian naval attack helicopters, a purchase that would "give wings" to the Chinese military's new generation of amphibious assault ships. Military analysts said the deal for the Russian Ka-52Ks would be the third biggest for China and would signal a closer defence partnership between the two countries in the face of US hostility. "The People's Liberation Army has studied the possibility of buying Russian Ka-52Ks for quite a long time. The Type 075 landing helicopter dock needs a heavy attack helicopter," said Zhou

		<p>Chenming, a researcher from the Yuan Wang military science and technology institute in Beijing. Russian news agency Avia.Pro reported on Thursday that the PLA was very interested in the Ka-52K and a Chinese delegation had visited the production line in Primorye Krai in Russia's Far East.</p> <p>Beijing launched its third Type 075 LHD in January and hopes to use the amphibious platforms as "mini aircraft carriers". The platforms would play an important role in island landings and defending what Beijing says are its maritime interests, particularly in the South China Sea. But one major element has been missing. "The key problem is, Chinese aircraft manufacturers still can't produce a heavy armed helicopter that can meet the combat needs of the Type 075," a source close to the PLA said on condition of anonymity. China is developing ship-borne versions of the Z-8, Z-9 and Z-20 helicopters for both the Type 075 and the less advanced Type 071, but it will take time to reach the goals, according to the source.</p>
<p>dscamilitary.com 16.09.2021</p>	<p>SAU: Continuation of maintenance support service (MSS)</p>	<p>The State Department has made a determination approving a possible Foreign Military Sale to the Kingdom of Saudi Arabia of Continuation of Maintenance Support Services (MSS) and related equipment for an estimated cost of \$500 million. The Kingdom of Saudi Arabia has requested to buy the continuation of the Maintenance Support Services (MSS) contract that supports the Royal Saudi Land Forces Aviation Command's (RSLFAC) fleet of AH-64D/E, UH-60L, UH-60M, Schweizer 333, and Bell 406CS helicopters, as well as the future fleet of CH-47F Chinook helicopters.</p>
<p>flightglobal.com 15.09.2021</p>	<p>MYS: Malaysia could get MD530Gs by end-2021</p>	<p>In February 2016, Kuala Lumpur selected the MD530G for a light attack helicopter requirement. The long-delayed delivery of six MD Helicopters MD530Gs to Malaysia could now take place before the end of the year, according to the head of Malaysia's defence forces. The helicopters, which will serve with the country's army, are undergoing pre-delivery inspections, says general Affendi Buang, chief of the Southeast Asian nation's defence forces, in a report carried by state news agency Bernama. "Based on the procurement contract, all the helicopters are expected to be delivered to Malaysia at the end of the year," he is quoted as saying.</p>
<p>news.bellflight.com 14.09.2021</p>	<p>USMC: Bell Completes 100th Consecutive On-Time Delivery of AH-1Z to U.S. Marines</p>	<p>Bell Textron Inc. has successfully completed its 100th consecutive on-time delivery of the AH-1Z aircraft to the U.S. Marine Corps, which began nearly four years ago. The H-1 series consists of the AH-1Z Viper and UH-1Y Venom, which provide light attack and utility helicopter support to the Marines while maintaining a small logistical footprint through the 85% commonality between the airframes. Bell is currently working toward the U.S. Marine Corps program of record (POR) and anticipates production of Marine Corps H-1 through 2022. The U.S. Marine Corps H-1 production contract is for 349 aircraft, consisting of 160 UH-1Y and 189 AH-1Z. Bell will continue manufacturing aircraft for foreign military customers including contracts for Bahrain AH-1Zs and a mixed Czech Republic fleet of both AH-1Zs and UH-1Ys.</p>

gov.uk 12.09.2021	RAF: £400m investment for the Royal Air Force – CH-47 Chinook	The UK's fleet of Mk5 and Mk6 Chinook helicopters will be enhanced with state-of-the-art defensive systems, as part of a £64 million contract with Boeing Defence UK (BDUK) which will make them harder for adversaries to detect. The five-year Chinook helicopter contract managed by DE&S will see the installation of state-of-the-art Infra-Red Suppression Systems (IRSS) across some of the fleet, offering better protection from threats posed by new missile systems using the heat (infra-red) signature of the aircraft to target. IRSS technology will counter with 'blinking plates' on the helicopters which mask the hot components and redirect airflow to cool the exhaust gases, making it more difficult to target.
		<b>Unbemannte Luftfahrzeuge (UAV) und Robotik</b>
dailysabah.com 21.09.2021	MAR: Morocco receives 1st Turkish Bayraktar TB2 delivery	Morocco has received the first units of Turkey's Bayraktar TB2 unmanned combat aerial vehicles (UCAVs), local news sites reported late Monday, citing a military news-specialized online forum. The deliveries began Sept. 17, the media reports said, as confirmed by the Far-Maroc forum. The rest of the units are set to be delivered gradually within the framework of a deal that was said to be signed between Morocco and the Turkish manufacturer Baykar in April. The Royal Moroccan Armed Forces (FAR) ordered a total of 13 such drones, according to the reports. The country was already using French Heron drones and is set to introduce both the U.S.' MQ-9B SeaGuardian and the Bayraktar TB2 UCAV.
defensenews.com 20.09.2021	USMC: Kaman unveils medium-lift UAV to resupply distributed Marine Corps forces	Kaman is unveiling this week a medium-lift unmanned quadcopter meant to solve the biggest challenge to the Marine Corps' expeditionary advanced base operations concept: resupplying small units of Marines scattered around island chains. Kaman's KARGO unmanned aerial vehicle has been designed from scratch over the past nine months to meet the Marines' needs for an Unmanned Logistics Systems-Air (ULS-A) medium-lift vehicle for the distributed laydown the Marines expect will be the hallmark of their operations in the future in places like the Pacific, the Baltic Sea or other contested areas. The vehicle will be able to balance range and payload capacity — up to 500 nautical miles and as much as 1,000 pounds of cargo — to help the Marine Corps move "beans, bullets and Band-Aids," or even potable water, fuel and spare parts, to small units in remote locations. Kaman is the company behind the K-MAX heavy-lift UAV that saw operations in Afghanistan in 2011.
en.yna.co.kr 16.09.2021	KOR:	The military will deploy vertical take-off and landing (VTOL) drones to boost maritime surveillance capabilities, the arms procurement agency said Thursday. The unmanned aerial vehicles were provided to the Army and the

	Military to deploy VTOL drones for maritime surveillance	Marine Corps for a six-month pilot operation in December last year. "Through the pilot operation at land and sea, its excellent aerial surveillance capabilities on day and night were confirmed," the agency said in a release. The agency said it will come up with a detailed purchase plan by the end of the year and push to sign a contract by June next year.
janes.com 14.09.2021	GBR: UK touts uncrewed air defence from mid-2030s	The United Kingdom has said that its airborne air defence duties will be flown by uncrewed aircraft from the middle of the decade, with manned combat aircraft flying in support. Answering a question in the House of Commons on 13 September, Minister of State for Defence Jeremy Quin said that uncrewed aircraft are set to replace the Royal Air Force's (RAF's) Eurofighter Typhoons in the air-to-air role from the mid-2030s, supported by the Tempest fighter now being developed as part of the wider Future Combat Air System (FCAS). "A core aircraft is set to play a crucial role in our concept of a Future Combat Air System, but this will likely be just one element in a network of capabilities supporting uncrewed aircraft that are expected to replace the United Kingdom's Typhoon aircraft air-to-air combat capability from the mid-2030s," Quin said.
boeing.com 14.09.2021	USN: U.S. Navy, Boeing Conduct First MQ-25 Refueling Mission with F-35C	<p>The U.S. Navy and Boeing have used the MQ-25TM T1 test asset to refuel a U.S. Navy F-35C Lightning II fighter jet for the first time, once again demonstrating the aircraft's ability to achieve its primary aerial refueling mission. This was the third refueling mission for the Boeing-owned test asset in just over three months, advancing the test program for the Navy's first operational carrier-based unmanned aircraft. T1 refueled an F/A-18 Super Hornet in June and an E-2D Hawkeye in August. During a test flight Sept. 13, an F-35C test pilot from the Navy's Air Test and Evaluation Squadron Two Three (VX-23) conducted a successful wake survey behind T1 to ensure performance and stability before making contact with T1's aerial refueling drogue and receiving fuel. T1 will be used to conduct a deck handling demonstration aboard a U.S. Navy carrier in the coming months to help advance the carrier integration progress. Boeing is currently manufacturing the first two MQ-25 test aircraft.</p> <p><i>(Ergänzende Information boeing.com vom 17.09.2021: The U.S. Navy intends to procure more than 70 MQ-25 aircraft to help extend the range of the carrier air wing, and the majority of those will be built in the new high-tech facility in Illinois. Boeing is currently producing the first seven MQ-25 aircraft, plus two ground test articles, at its St. Louis facilities, and they will be transported to MidAmerica for flight test. The MQ-25 program office, including its core engineering team, will remain based in St. Louis.)</i></p>
rafael.co.il 13.09.2021	GBR: The British Ministry of Defence Employed Rafael's DRONE DOME	Three years ago, Britain's Defence Ministry purchased several DRONE DOME systems which it has successfully employed in a multitude of operational scenarios, including for protecting both the physical site and participants of this year's G7 summit. Rafael's DRONE DOME is an innovative end-to-end, combat-proven counter-Unmanned Aerial System (C-UAS), providing all-weather, 360-degree rapid defence against hostile drones. Fully

	to Defend the G7 Summit from Drone, UAV threats	operational and globally deployed, DRONE DOME offers a modular, robust infrastructure comprised of electronic jammers and sensors and unique artificial intelligence algorithms to effectively secure threatened air space. DRONE DOME's advanced technology allows it to effectively address drone and UAV threats through detection, identification, and neutralization. When DRONE DOME identifies a threat, it allocates the target to the laser, locks onto the target, tracks it, and carries out either a soft or hard-kill with its unique, integrated laser technology. This laser system operates reliably in any weather condition, and results in minimal environmental damage. Additionally, DRONE DOME's artificial intelligence capabilities, along with the advanced laser and sensor systems, provide a more precise picture of the incoming threat. This additional information allows the system both to detect and identify specific threat elements more accurately and engage and neutralize the target faster and more efficiently.
dailysabah.com 12.09.2021	UKR: Ukraine to buy 24 more Turkish Bayraktar TB2 UCAVs	Ukraine is planning to procure 24 more Bayraktar TB2 (Tactical Block 2) unmanned combat aerial vehicles (UCAVs) in the coming period, Commander-in-Chief of the Armed Forces of Ukraine Lieutenant-General Valeriy Zaluzhny said in an interview with Azerbaijani news agency Report Saturday. Currently, there are 12 Bayraktar TB2 UCAVs in Ukraine's inventory being used in the air and naval forces. The top military official said it "planned to purchase" four more of the UCAVs to "meet the needs of the armed forces in 2021-2022."
asiatimes.com 11.09.2021	Northrop unveils an advanced loyal wingman	<p>Facing current and future budget constraints and a shrinking combat-ready air fleet, the unprecedented push for unmanned aircraft continues. The US Air Force's Skyborg program, in particular, aims to integrate autonomous attritable unmanned air vehicle (UAV) technology with open missions systems to enable manned-unmanned teaming. Skyborg must be able to autonomously take off and land, fly in bad weather, and avoid other aircraft, terrain, and obstacles, the Air Force said. New uninhabited aircraft ideas — whether low-cost, attritable wingmen to manned or unmanned platforms, in swarms, or as stealthier designs that fly alone — are gaining traction in the era of great power competition. Scaled Composites, together with its parent company Northrop Grumman, has unveiled a new unmanned aircraft design, known as the Model 437, which could be configured as a "loyal wingman" intended to work networked together with manned platforms.</p> <p>The Model 437 has a top-mounted air intake for its engine, which Aviation Week has reported will be a Williams FJ44-series turbofan. It is expected to have a range of some 3,000 nautical miles when carrying a load of 4,000 pounds of fuel, and will be able to cruise at around 0.8 Mach. The drone has an internal centerline payload bay that is designed to carry up to 1,000 pounds of stores or other systems, as well. The outlet was told said that a pair of AIM-120 Advanced Medium-Range Air-to-Air Missiles (AMRAAM) or a side-looking radar imaging sensor were two possible loadouts.</p>

		<p>Northrop Grumman says it could develop an unmanned version of the Model 401 to start test flights to faster advance the Model 437 concept with US Air Force funding, Defense Brief reported. It should be noted, however, that the company was initially one of five companies taking part in the Skyborg program, but did not make the final cut. According to the most recent US Air Force announcement Kratos and GA-ASI will be the final participants of the Skyborg program.</p> <p><i>(Vollständiger Artikel abrufbar unter:</i>  <a href="https://asiatimes.com/2021/09/northrop-unveils-an-advanced-loyal-wingman/9">https://asiatimes.com/2021/09/northrop-unveils-an-advanced-loyal-wingman/9</a></p>
janes.com 10.09.2021	ITA: GA-ASI to upgrade Italian Air Force MQ-9A Predator B MALE UAVs to Block 5 standard	<p>General Atomics Aeronautical Systems Inc (GA-ASI) was awarded a USD30.5 million contract to upgrade Aeronautica Militare Italiana (Italian Air Force, AMI) MQ-9A Predator B medium-altitude, long-endurance (MALE) unmanned aerial vehicles (UAVs) to Block 5 standard, the US Department of Defense (DoD) has announced. The MQ-9 mid-life modernisation (MLM) contract, awarded under the US Foreign Military Sales (FMS) programme on 8 September, includes all five Lot 1 MQ-9A UAVs and Block 30 mobile ground control stations currently in service with the AMI. The contract will run through to 31 January 2023.</p>
gov.uk 09.09.2021	GBR: RAF's next-generation Remotely Piloted Aircraft takes to UK skies	<p>A pre-production example of the UK's new Protector aircraft has taken to the UK skies as part of preparations for the arrival of Protector to RAF Waddington. The air station has been selected as the home of the Protector International Training Centre, as part of a £94 million investment into infrastructure improvements to assist with housing the aircraft ahead of its entry into service in 2024. The UK has ordered 16 protector aircraft from General Atomics-Aeronautical Systems Inc (GA-ASI), all of which will be based at RAF Waddington, the RAF's ISTAR hub.</p> <p>Protector which significantly boost the RAF's armed Intelligence, Surveillance, Target Acquisition, and Reconnaissance (ISTAR) capability will be able to conduct missions of up to 40 hours and fly in non-segregated civil airspace allowing it to respond rapidly and offer flexibility to deliver an array of military missions and support to civil authorities, including search and rescue.</p>
		<b>Bewaffnung und weitere Nutzlasten</b>
janes.com 22.09.2021	USAF:	<p>Boeing displayed at the Air Force Association's (AFA's) annual convention a half-scale model of a Long-Range Air-to-Air Missile (LRAAM) concept it developed in response to an Air Force Research Laboratory (AFRL) broad</p>

	Boeing unveils Long-Range Air-to-Air Missile concept	agency announcement (BAA) for LRAAM technologies. Boeing told Janes on 21 September at the show that the AFRL sought capabilities in multipulse, air breathing, and two-stage missile design. While Boeing did respond to all three technology areas, Wood said Boeing developed the two-stage LRAAM for the portion that desired a two-stage design. A two-stage concept allows the back half to drop off in flight, allowing the vehicle to gain aerodynamic efficiencies.
lockheedmartin.com 21.09.2021	USAF: Rapid Dragon Demonstrates Palletized Munition Capability In First C-17 And EC-130 System-Level Demonstrations	The Rapid Dragon team deployed Rapid Dragon munition pallets from a C-17A Globemaster III and another from an EC-130SJ Commando Solo. In both flights, aircrews deployed a pallet at an operationally relevant altitude. Once stabilized by parachutes, the pallets released surrogate missiles in quick succession, each aerodynamically identical to a JASSM-ER. A ground crew transmitted new targeting information to the Rapid Dragon system during both flights via beyond line-of-sight communications. The ability to retarget missiles while the aircraft is airborne provides combatant commanders the flexibility to respond to changes in a dynamic operational environment. U.S. Air Force Strategic Development Planning and Experimentation (SDPE) and Lockheed Martin are conducting additional tests in coming months, culminating in an MC-130J airdrop of a real JASSM-ER under powered flight by the end of 2021.
flightglobal.com 17.09.2021	GBR/ITA: Weapons deal will boost capability of the UK's F-35B Lightning force  Meteor beyond-visual-range air-to-air missile	<p>The industry partners say the addition of Spear air-to-surface missiles will provide the UK's F-35Bs with "network-enabled, high load-out, multi-effect capabilities with extended stand-off range". The UK Ministry of Defence in January 2021 awarded MBDA a £550 million (\$758 million) demonstration and manufacturing contract for the Spear 3, describing it as the future "primary air-to-ground weapon" for its F-35s. The fifth-generation fighter will be able to carry up to eight of the more than 75nm (140km)-range missiles internally.</p> <p>Additional work covered by the new funding will complete integration of the ramjet-powered Meteor beyond-visual-range air-to-air missile on the conventional take-off and landing F-35A for Italy and the UK's short take-off and vertical landing F-35Bs.</p> <p>"A team of engineers from BAE Systems, MBDA and Lockheed Martin will now commence the testing, simulation and integration activities in the UK and US to achieve initial operating capability of both weapons," the companies say.</p> <p><i>(Ergänzende Information defenseneews.com vom 17.09.2021: The Spear 3 and Meteor weapons will join Raytheon UK's Paveway IV precision-guided bomb and the MBDA ASRAAM short-range, anti-air weapon as British weapons integrated on the F-35. The date for introduction of the missiles on the F-35 remains under discussion, but the RAF's ambition is to have the weapons available by the end of 2024.)</i></p>

<p>defense.gov 16.09.2021</p>	<p>USAF: GBU-57 Massive Ordnance Penetrator</p>	<p>The Boeing Corp. has been awarded a \$70,000,000 indefinite-delivery/indefinite-quantity contract for GBU-57 Massive Ordnance Penetrators. This contract provides for the procurement via delivery order of GBU-57 Massive Ordnance Penetrator carriage and release equipment. Work is expected to be completed by April 30, 2026.</p> <p><i>(Factsheet GBU-57 Massive Ordnance Penetrator: MOP is a GPS-guided, earth-penetrating strike weapon for use against hard and deeply buried targets. It was developed and tested through a USAF and Defense Threat Reduction Agency partnership in 2004, and is now managed by AFGSC. Flight testing was conducted from 2008 to 2010, when the program transitioned to USAF. A B-2 successfully test-dropped the GBU-57 in 2014, 2015, and 2016. Several B-2s completed a total of four test drops at White Sands Missile Range, N.M., in 2017 validating the effectiveness of mods made under the Enhanced Threat Response IV upgrade. MOP proved effective, clearing the way for potential early fielding, though the Air Force's recommendation is classified. The service is currently validating requirements to expand the weapon's capabilities further. USAF issued a \$20.9 million contract in FY18 to procure an undisclosed number of additional GBU-57 for delivery through July 2020. No funds were requested in FY20-FY21.</i></p> <p><i>Contractor: Boeing.</i>  <i>First Flight: Classified.</i>  <i>IOC: 2011.</i>  <i>Operator: AFGSC.</i>  <i>Active Variant:</i>  <i>GBU-57B. GPS-guided 30,000-lb penetrating weapon.</i>  <i>Guidance: GPS.</i>  <i>Warhead: 5,740-lb HE.</i>  <i>Dimensions: Length 20.5 ft, diameter 31.5 in.</i>  <i>Integration: B-2A (tests also conducted on the B-52).</i></p>
<p>defbrief.com 16.09.2021</p>	<p>AUS: JASSM-ER for F/A-18 and F-35A</p>	<p>The Australian PM announced the country would buy Joint Air-to-Surface Standoff Missiles (Extended Range) for F/A-18 A/B Hornets and in future, F-35A Lightning II aircraft. Australia already uses the JASSM, but JASSM-ER will allow RAAF fighters to hit targets at a range of 900km. The announcement on the new missile procurement follows a string of other high-profile initiatives, such as the cooperation on the US Army's Precision Strike Missile program, purchase of Long-Range Anti-Ship Missiles (Extended Range) (LRASM) for the F/A-18F Super Hornets, as well as the establishment of a sovereign guided weapons manufacturing enterprise.</p>
<p>diehl.com 15.09.2021</p>	<p>DEU: Diehl delivers penetrator warheads</p>	<p>On July 29, 2021, Diehl Defence received an order from the Federal Office of Bundeswehr Equipment, Information Technology and In-Service Support (BAAINBw) to deliver Mk-83 Trojan Improved Penetrator (TIP) warheads. The Mk-83 TIP are procured as alternative warheads for the precision ammunition GBU-48 integrated into the Eurofighter fighter aircraft and already introduced into the air force. It consists of the Mk-83 effector, equipped with an Enhanced Paveway II guidance kit for precise control by means of semiactive laser. In contrast</p>

		<p>to the original Mk-83 warhead, the TIP version stands out due to its significantly lower demolition effect whilst considerably increasing the penetration capacity. The all-weather and standoff capable air-to-surface effector GBU-48 TIP is not only optimized for the engagement of hardened point and area targets but also for operations in urban areas for close air support of own troops. During operations of this kind, the risk of collateral damage for the air force is reduced thanks to the combination of precision and low explosive power. The effectiveness of GBU-48 TIP could be proven, among others, during the operational suitability test on the test range in Vidsel. The delivery of first serial units is envisaged to start in 2023. TIP was developed by Diehl in cooperation with the technical and mathematical research society (technisch-mathematische Studiengesellschaft) located in Bonn. In addition, the multi-option fuze FBM 21 by Junghans Defence is used.</p>
<p>afrl.af.mil 15.09.2021</p>	<p>USAF: AFRL, Defense Innovation Unit launch new phase of Golden Horde Vanguard program</p>	<p>A collaborative effort called Operation Protovision is unveiling a new competitive phase of the Department of the Air Force's Golden Horde Vanguard program. Golden Horde focuses on examining weapons concepts in realistic operational scenarios and assessing each weapon's survivability, effects and ability to provide military combat effects across large, contested areas even with severely degraded connectivity. During complex demonstrations in 2021, Golden Horde weapons established and utilized a secure communication network to synchronize impacts on targets, fly in formation to negate counter-air threats, react to a new target update from a ground station and effectively strike the established prioritized targets. Golden Horde, which employs semi-autonomous capabilities to operate without human control ultimately enables weapons to react to changes in the environment as well as losses and degradations in their own systems. Although these systems can operate without direct human control, they only engage targets or specific target groups previously selected by a human operator as part of the mission planning process.</p>
<p>flightglobal.com 15.09.2021</p>	<p>GBR: Litening V service introduction to boost RAF Typhoons</p>	<p>The UK is poised to field further capability enhancements with its Royal Air Force (RAF) fleet of Eurofighter Typhoons, with the Rafael Litening V targeting pod expected to enter use with the type before year-end. Featuring advanced optics, the new-generation pod will offer enhanced target generation performance, says Andrew Mallery-Blythe, Typhoon operational requirements manager at BAE Systems' Air sector. Other near-term updates are likely to include the introduction of BAE's digital Striker II helmet, with full colour, wide field of view and night vision capability. And regarding a pending update to the fighter's self-protection suite, a clearance process is under way to clear it to use the BriteCloud air-launched decoy, notes Dave Morris, Leonardo UK's head of campaigns, major air programmes.</p> <p>Speaking at the DSEI show in London on 15 September, Mallery-Blythe noted that the RAF's Project Centurion activity, which rapidly added new capabilities ahead of the Panavia Tornado GR4's retirement, "put the UK a long way ahead of the [other Eurofighter] partners – it fragmented the programme". Completed in late 2018,</p>

		<p>Project Centurion enabled UK Typhoons to operate with the MBDA Meteor beyond-visual-range air-to-air missile and Storm Shadow cruise missile, and fully integrated Raytheon Systems' Paveway IV precision-guided bomb.</p> <p>Morris notes that the RAF's introduction of the Leonardo-developed ECRS Mk2 active electronically scanned array radar from later this decade will represent a "significant leap forward". To be capable of conducting electronic attack tasks, the sensor and MBDA's developmental Spear EW missile will combine to provide the UK with "a really significant suppression of enemy air defence capability", he adds.</p>
<p>defense.gov 14.09.2021</p>	<p>USN: AGM-88G Advanced Anti-Radiation Guided Missile - Extended Range (AARGM-ER)</p>	<p>Alliant Techsystems Operations LLC is awarded a \$41,231,833 firm-fixed-price contract. This contract procures low rate initial production Lot One of the AGM-88G Advanced Anti-Radiation Guided Missile - Extended Range (AARGM-ER). This contract provides for the production and delivery of 16 AGM-88G AARGM-ER All Up Rounds, six AGM-88G AARGM-ER Captive Air Training Missiles, four Common Munitions BIT Reprogramming Equipment Plus interface devices, initial spares, and required supplies and support. Work is expected to be completed in March 2024.</p>
<p>military.com 12.09.2021</p>	<p>USAF: The Air Force Is Testing A New Ship-Killing Guided Bomb</p>	<p>As the military shifts its attention to competing against the world's major navies, the Air Force is working on a new weapon: a ship-killing GPS-guided bomb. On Aug. 26, the Air Force Research Laboratory tested the ability to use modified 2,000-pound GBU-31 Joint Direct Attack Munitions, or JDAMs, on both stationary and moving targets on the water. Three F-15E Strike Eagle fighters from the Eglin Air Force Base, Florida-based 85th Test and Evaluation Squadron, armed with dummy versions of the weapon, tried out a slew of different ways of using it, looking to prove it would work. The F-15Es that took part in the test carried four of the maritime JDAMs. And any aircraft that can carry a standard JDAM will be able to carry the modified weapons, Meeks said.</p> <p>In a Friday interview, Col. Anthony Meeks, director of the Air Force Research Laboratory's munitions directorate, said the test was designed to see whether pilots could drop the bombs on "different aim points to defeat maritime threats." Those "aim points" -- the place where the crew wants the weapon to hit -- could be at the top of the vessel, the waterline, or just below the surface of the water, Meeks said. He declined to answer whether that meant the weapon could target specific portions of a ship such as its bridge, propulsion, fuel tanks or weapons, saying the exact capabilities of the weapon are classified.</p> <p>Next, the Air Force plans to work with partners at Naval Sea Systems Command to analyze the results of this test. The military utility assessment, which determines how useful a project might be and whether to move forward with it, is expected to take place in late 2023 or early 2024.</p>

		<b>Air Power</b>
taiwannews.com.tw 23.09.2021 21:10	TWN/CHN: 24 Chinese military aircraft enter Taiwan's ADIZ after CPTPP bid	<p>Over two dozen Chinese fighter jets, four bombers, and one surveillance aircraft intruded into Taiwan's air defense identification zone (ADIZ) on Thursday (Sept. 23), a day after news broke that Taiwan had submitted an application to take part in the Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP) trade group. The combined 24 aircraft witnessed on Thursday marked the third-largest single-day intrusion of PLAAF planes into Taiwan's ADIZ.</p> <p>At 4:30 p.m. on Thursday afternoon, Taiwan's Ministry of National Defense (MND) reported that 19 People's Liberation Army Airforce (PLAAF) aircraft, including 12 Shenyang J-16 fighter jets, two Shaanxi Y-8 anti-submarine warfare (Y-8 ASW) planes, two Xian H-6 bombers, one Shaanxi Y-8 electronic warfare aircraft (Y-8 EW), and two Shenyang J-11 fighter jets, had penetrated into the southwestern corner of the ADIZ.</p> <p>In a rare second report that same day, the MND at 7:15 p.m. announced that five additional Chinese military planes had entered the southwest corner of Taiwan's ADIZ. This time, two Shenyang J-16 fighter jets, one Shaanxi KJ-500 airborne early warning and control aircraft (KJ-500 AEW&amp;C), and two Shenyang J-11 fighters were spotted.</p>
tass.com 23.09.2021	RUS/EST: Russia's top brass rejects Estonia's claims of military plane intruding into its airspace	Russia's Defense Ministry has rejected Estonia's claims that a Russian A-50 aircraft intruded into the Baltic republic's airspace. "On September 22, the crew of an A-50 plane of the Aerospace Force was performing a scheduled flight from an airfield in the Kaliningrad Region to its permanent base. The flight proceeded along the agreed route with the plane's transponder turned on. The aircraft's crew was in contact with Estonian air controllers who did not present any complaints to the Russian crew," the ministry told reporters.
taiwannews.com.tw 23.09.2021	TWN/CHN: 2 Chinese military spotter planes enter Taiwan's ADIZ	A People's Liberation Army Air Force (PLAAF) Shaanxi Y-8 electronic warfare plane and a Shaanxi Y-8 anti-submarine warfare aircraft both flew into the southwest corner of Taiwan's ADIZ on Wednesday (Sept. 22), marking the 19th intrusion this month, according to the Ministry of National Defense (MND).
upi.com 22.09.2021	USAF: U.S. F-16 fighter jets intercept Cessna during U.N. General Assembly	U.S. fighter jets escorted a small plane flown by a U.S. Army soldier out of restricted air space over New York City after it violated temporary flight restrictions put in place during the United Nations General Assembly. The Cessna 182, owned by the U.S. Military Academy at West Point, was being flown by a U.S. Army instructor pilot when it briefly entered the TFR area over the Hudson River at about 2 p.m. Tuesday. The TFR area was put in

		place from 4:45 p.m. Monday until 3:45 p.m. Tuesday to protect the annual U.N. General Assembly. The small plane was escorted out of the restricted area without incident, North American Aerospace Defense Command (NORAD) said on Twitter.
tass.com 21.09.2021	RUS: Two Russian Tu-160 strategic bombers perform flight over Baltic Sea	Two Tu-160 strategic missile-carrying bombers of long-range aviation performed a scheduled flight in the airspace over the neutral waters of the Baltic Sea. The crews of Su-35S fighters of the Western Military District's Air Force and Air Defense Army and Su-27 planes of the Baltic Fleet's naval aviation provided fighter support. At some stages of the route, the Russian strategic bombers "were escorted by F-16 fighters of the Italian and Danish Air Forces, F-18 jets of the Finnish Air Force, Saab JAS 39 Gripen aircraft of the Swedish Air Force and other foreign planes," the ministry said.
taiwannews.com.tw 21.09.2021 10:52	TWN: Chinese military spotter plane enters Taiwan's ADIZ	A Chinese military plane flew into Taiwan's air defense identification zone (ADIZ) on Monday afternoon (Sept. 20), marking 18th intrusion this month. A People's Liberation Army Air Force (PLAAF) Shaanxi Y-8 anti-submarine warfare plane entered the southwest corner of Taiwan's ADIZ, according to the Ministry of National Defense (MND). In response, Taiwan sent aircraft, broadcast radio warnings, and deployed air defense missile systems to monitor it.
gov.uk 20.09.2021	GBR: Update: air strikes against Daesh	Royal Air Force aircraft continue to fly armed reconnaissance missions as part of the Global Coalition Against Daesh's work to support the Iraqi Security Forces keeping their country safe from Daesh terrorism. On Monday 6 September, Iraqi ground forces conducting security operations approximately thirty miles south of Erbil came under fire from a Daesh position in an area of heavy vegetation. Two RAF Typhoon FGR4s responded to a call for assistance and, working closely with the ground forces to ensure no risks were posed to either them or any civilians, used a single Paveway IV guided bomb to successfully eliminate the threat.  <i>(Einsatzvideo abrufbar unter:</i> <a href="https://www.youtube.com/watch?v=8XmWxXIXQwk&amp;t=75s">https://www.youtube.com/watch?v=8XmWxXIXQwk&amp;t=75s</a> <i>)</i>
voanews.com 20.09.2021 06:50 PM	AFCENT: US Strike Targets al-Qaida in Syria	Just days after the United States admitted killing civilians instead of terrorists in a drone strike in Afghanistan, the U.S. military launched a strike to kill a top terror official in Syria. U.S. Central Command said Monday it carried out the airstrike near Idlib, targeting a leader with the al-Qaida terror group. "Initial indications are that we struck the individual we were aiming for," Central Command spokeswoman Lieutenant Josie Lynne Lenny said in a statement. "There are no indications of civilian casualties as a result of the strike," she said. Jihadis posting on social media Monday said the strike killed two officials with the al-Qaida affiliate Hurras al-Din.

		According to SITE Intelligence Group, the posts said the U.S. strike killed Abu Hamza al-Yemeni, a military commander, as well as a second official named Abu al-Bara' al-Tunisi.
taiwannews.com.tw 20.09.2021 10:47	TWN: 4 Chinese military planes intrude into Taiwan's ADIZ	Four Chinese military planes entered Taiwan's air defense identification zone (ADIZ) on Sunday (Sept. 19), marking the 17th intrusion this month. Two People's Liberation Army Air Force (PLAAF) Shenyang J-16 fighter jets and one Shaanxi Y-8 anti-submarine warfare plane flew into the southwest corner of Taiwan's ADIZ on Sunday morning, according to the Ministry of National Defense (MND).
tasnimnews.com 19.09.2021 08:39	SAU/HOUTHIS: Seven Civilians Killed in Saudi-Led Coalition Airstrike in Yemen	On Saturday, Saudi-led warplanes struck a civilian vehicle in Markha districts of the oil-rich province, killing all seven passengers on board, Yemen's Arabic-language al-Masirah television network reported, citing local sources. It was the latest Saudi-led airstrike against the impoverished nation that led to the killing of a number of civilians, who are under constant bombardment by the invaders.
focustaiwan.tw 17.09.2021 08:30 PM	TWN: 10 Chinese planes enter Taiwan's ADIZ as Han Kuang drills conclude	Ten Chinese military planes flew into Taiwan's air defense identification zone (ADIZ) on Friday 17.09.2021 as Taiwan concluded its annual Han Kuang wargames held this week, according to the Ministry of National Defense. Six J-16 and two J-11 fighter jets entered the airspace between Taiwan and the Dongshan Islands, while one Y-8 reconnaissance plane and one Y-8 anti-submarine warfare plane flew to the southeast of Taiwan before turning back, according to a report released Friday by the ministry. Friday was the fifteenth consecutive day of ADIZ intrusions from Chinese planes, with Taiwan concluding its annual Han Kuang military drills that had begun on Monday, the ministry's data showed.
cnn.com 17.09.2021	USA: U.S. airstrike in Kabul last month killed 10 civilians including seven children, Pentagon says	The Pentagon said Friday that a U.S. drone strike in Kabul last month killed 10 civilians including seven children. "This strike was taken in the earnest belief that it would prevent an imminent threat to our forces and the evacuees at the airport, but it was a mistake," U.S. Marine Corps General Kenneth McKenzie, commander of U.S. Central Command, said Friday. The Pentagon originally said that the strike, which occurred Aug. 29, killed two ISIS-K fighters believed to be involved in planning attacks against U.S. forces in Kabul. The drone strike came on the heels of a suicide bombing that resulted in the deaths of 13 U.S. service members and dozens of Afghans outside the Hamid Karzai International Airport in Kabul.
tass.com 17.09.2021	RUS: Dozens of aircraft were involved in reconnaissance flights near Russia in one week	Russia's radars in just one week spotted 83 foreign aircraft on reconnaissance missions near Russia's borders, the Defense Ministry's daily Krasnaya Zvezda said on Friday. According to the daily's infographics, 63 crewed planes and 20 drones were involved in reconnaissance flights along the border. On one occasion an air defense fighter was scrambled to prevent an intrusion. Russian radars tracked all flights. No violations of the airspace were permitted.

reuters.com 17.09.2021 02:55 AM CEST	SAU/HOUTH: Saudi-led coalition thwarts Houthi missile and drones attack	The Saudi-led coalition said late on Thursday that it thwarted and destroyed four Houthi explosives-laden drones and a ballistic rocket fired in the direction of the southern Saudi city of Jazan, Saudi state media reported. The Saudi-led military coalition intervened in Yemen in 2015, backing forces of the ousted government of President Hadi and fighting the Iran-aligned Houthi group.
taiwannews.com.tw 17.09.2021 08:33	TWN/CHN: 3 Chinese military aircraft enter Taiwan's ADIZ	Two People's Liberation Army Air Force (PLAAF) Shenyang J-16 fighter jets and one Shaanxi Y-8 electronic warfare aircraft flew on Thursday morning (Sept. 16), marking the 15th intrusion this month, into the southwest corner of Taiwan's ADIZ, according to the Ministry of National Defense (MND). In response, Taiwan sent aircraft, issued radio warnings, and deployed air defense missile systems to monitor the PLAAF planes.
dailysabah.com 16.09.2021	TUR/POL: Turkish jets return from NATO's air policing mission in Poland	Turkish fighter jets have returned home after participating in NATO's air policing mission in Poland, Defense Ministry sources said Thursday. The F-16 jets took part in the NATO Enhanced Air Policing mission at Malbork Air Base in Poland between July 6 and Sept. 15. The aircraft conducted around 30 sorties, each of which lasted for an hour, and participated in joint training sessions with Poland and NATO.
taiwannews.com.tw 16.09.2021 09:43	TWN/CHN: 9 Chinese military aircraft enter Taiwan's ADIZ	Six People's Liberation Army Air Force (PLAAF) Shenyang J-16 fighter jets, one Shaanxi Y-8 reconnaissance plane, one Shaanxi Y-8 anti-submarine warfare plane, and one KJ-500 airborne early warning and control aircraft flew on the 15.09.2021 into the southwest corner of the ADIZ, marking the 14th intrusion this month according to the Ministry of National Defense (MND).
en.yna.co.kr 15.09.2021 17:17	PRK: N. Korea fires 2 short-range ballistic missiles into East Sea: JCS	<p>North Korea fired two short-range ballistic missiles into the East Sea on Wednesday 15.09.2021, South Korea's Joint Chiefs of Staff (JCS) said, gradually ratcheting up tensions just days after successfully test-firing a newly developed long-range cruise missile. The projectiles were fired from the central county of Yangdok at 12:34 p.m. and 12:39 p.m. and flew around 800 kilometers at a maximum altitude of around 60 km, the JCS said. Government sources said the tested missiles appear to be an upgraded version of the North's KN-23 Iskander ballistic missile, as the military detected the so-called pull-up maneuver over the course of their flight.</p> <p>Wednesday's launches came two days after the North announced it successfully test-fired a new type of long-range cruise missile over the weekend, calling it "a strategic weapon of great significance" to indicate its nuclear capability. Under the U.N. Security Council resolutions, North Korea is banned from ballistic missile activity, while cruise missiles are not subject to sanctions.</p>

		<p><i>(Ergänzende Nachricht reuters.com vom 16.09.2021 02:09 AM CEST: The missiles fired by North Korea on Wednesday were a test of a new "railway-borne missile system" designed as a potential counter-strike to any forces that threaten the country, state news agency KCNA reported on Thursday. The railway system displayed on Wednesday could possibly set the stage for developing one capable of launching a larger, nuclear-armed intercontinental ballistic missile (ICBM).)</i></p> <p><i>(Video of North Korea's TLBM (Train-Launched Ballistic Missile) abrufbar unter: <a href="https://www.youtube.com/watch?v=tepi2AdcvVU">https://www.youtube.com/watch?v=tepi2AdcvVU</a>)</i></p>
en.yna.co.kr 15.09.2021 16:35	KOR: S. Korea succeeds in testing ballistic missile launch from submarine: Cheong Wa Dae	South Korea has become the world's seventh country with an indigenous submarine-launched ballistic missile (SLBM), as it succeeded in an underwater test-launch from a submarine, Cheong Wa Dae announced Wednesday. The SLBM was fired from the 3,000-ton-class Dosan Ahn Chang-ho submarine at the ADD Anheung Test Center in South Chungcheong Province. It flew a planned distance and precisely hit a target.
reuters.com 15.09.2021 10:28 AM CEST	SAU/HOUTHİ: Saudi defences destroy Houthi drone launched toward Abha airport - al Hadath	Saudi air defences on Wednesday destroyed an explosives-laden drone launched by Yemen's Houthi group toward Abha airport in the southwest of the kingdom, the Saudi-owned Dubai-based al-Hadath channel reported.
@ELINTNews 14.09.2021 23:00	ISR/IRN: Two PMU Iranian-backed Iraqi militia vehicles were targeted by airstrikes near Al-Qaim at the Iraq-Syria border	<p>Probable Israeli airstrike, 2-3 trucks possibly carrying PGM/missile-related equipment from Iran likely struck. Vehicle are burning now, possibly a drone strike (if so likely Heron TP 'Eitan').</p> <p><i>(Ergänzende Information alarabiya.net vom 15.09.2021 02:48 AM GST: Unidentified drones struck Iranian-backed militia vehicles while they crossed into Syria from Iraq through al-Bukamal, a war monitoring group said on Tuesday. There were unconfirmed reports of casualties. Al-Bukamal is the Syrian city that controls the border checkpoint on the main Baghdad-Damascus highway. The highway is part of the main overground supply route linking Iran to its proxy fighters in Syria and Lebanon.)</i></p>
terrorism-info.org.il 14.09.2021	Spotlight on Global Jihad (September 2-13, 2021)	Syria: In Idlib, artillery exchanges continued between the Syrian army and the forces supporting it and the rebel forces. Russian warplanes carried out airstrikes in the region almost daily. In the desert region (Al-Badia), Russian planes carried out dozens of attacks in support of the Syrian forces fighting against ISIS. On September 11, 2021, a total of 75 airstrikes were reportedly carried out against ISIS targets.

taiwannews.com.tw 14.09.2021	TWN/CHN: Chinese electronic warfare turboprop enters Taiwan's ADIZ	A People's Liberation Army Air Force (PLAAF) Shaanxi Y-8 electronic warfare plane flew into the southwest corner of Taiwan's ADIZ on Monday morning (Sept. 13), according to the Ministry of National Defense (MND). Electronic warfare aircraft are used to degrade the effectiveness of enemy radar and radio systems through radar jamming and other methods, marking the 12th intrusion this month.
jpost.com 13.09.2021 04:50 AM	ISR/GAZA: IDF strikes targets in Gaza as rocket sirens go off in southern Israel	<p>The IDF struck targets in the Gaza Strip in the early hours of Monday morning in response to a rocket fired into Israel on Sunday. Meanwhile, rocket sirens went off in the Gaza border area communities of Kissufim and Ein Hashlosha, with one rocket fired into Israel and intercepted by an Iron Dome, according to the IDF Spokesperson's Unit. This marks four days in a row that rockets were fired from the Strip into Israel, and the fifth rocket fired since the conclusion of Operation Guardians of the Wall in May. Israeli forces struck four military outposts with a number of Hamas assets. These included training complexes, weapons manufacturing and storage centers and a terrorist tunnel. Fighter planes later struck other targets after a rocket was fired into Israel during the initial retaliatory strike. Reports also indicated that targets near Beit Lahiya in the Strip's North had been hit by IDF fighter planes, as well as the nearby Ashkelon site being targeted by the Israeli Navy. The IDF also struck a Hamas site near the city of Khan Yunis as well as a target near the central Gaza city of Deir el-Balah, according to the Shehab news agency.</p> <p><i>(Video of the Israeli airstrikes against Hamas targets in the Gaza Strip in retaliation for rockets fired into Israel, on September 13, 2021 abrufbar unter:</i>  <a href="https://www.jpost.com/breaking-news/rocket-sirens-sound-in-sderot-679281">https://www.jpost.com/breaking-news/rocket-sirens-sound-in-sderot-679281</a>)</p> <p><i>(Ergänzende Information debka.com vom 13.09.2021 10:32 PM: A fourth rocket punctuated the third round of Israeli air strikes over the Gaza Strip that responded to three nights of single Palestinian rocket fire. This last rocket like the others was aimed on Sunday night, Sept. 12 at Sderot and the Eshkol Council. All four Hamas projectiles were intercepted in time by Iron Dome rockets. The military spokesman reported that the fourth rocket prompted an expansion of the Israeli raid to five major Hamas facilities, including a "terror tunnel" as well as training compounds and arms production sites and depots.)</i></p> <p><i>(Ergänzende Information israelradar.com vom 15.09.2021: The IDF confirms that it destroyed an underground rocket factory in Gaza in a strike this week. An earlier report said that the secret bunker was used to produce long-range rockets. The Air Force attacked the Hamas facility with 10 bunker-busting bombs, army officials told N12 News. The military site was hidden under greenhouses in the central Gaza Strip and was a treasured Hamas asset, the report said.)</i></p>
taiwannews.com.tw 13.09.2021 09:53 AM	TWN/CHN:	A People's Liberation Army Air Force (PLAAF) Shaanxi Y-8 anti-submarine warfare plane flew into the southwestern corner of Taiwan's ADIZ on Sunday afternoon (Sept. 12) marking the 11th intrusion this month, according to the Ministry of National Defense (MND). According to MND data, Chinese aircraft were tracked in

	Chinese military spotter plane enters Taiwan's ADIZ	Taiwan's ADIZ 14 times in August, 14 times in July, 10 times in June, 18 times in May, 22 times in April, 18 times in March, 17 times in February, and 27 times in January.
jpost.com 12.09.2021 06:08 AM	ISR/GAZA: IDF strikes Gaza targets following rockets launched into Israel's South	<p>The IDF has struck multiple targets in the Gaza Strip early Sunday morning in response to rockets being fired into southern Israel on Saturday. The IDF Spokesperson's Unit confirmed that fighter planes and helicopters struck Hamas targets, including a military compound with rocket production workshops, a training facility, a weapons storage site and a terror tunnel. IDF Spokesperson confirmed that one launch was identified from Gaza into Israel and that it was intercepted by Iron Dome.</p> <p>(Ergänzende Information @IDF vom 12.09.2021 03:00 AM: Terrorist organizations in Gaza continue to terrorize Israelis with: rockets, violent riots and arson balloons. In response to tonight's rocket fire, we struck a Hamas underground rocket production workshop, weapons storage site, training facility and terrorist tunnel.)</p> <p><i>(Videos air strikes against Hamas targets in Gaza in response to rocket fire, on September 12, 2021 abrufbar unter: <a href="https://www.jpost.com/breaking-news/rocket-attacks-in-the-south-679218">https://www.jpost.com/breaking-news/rocket-attacks-in-the-south-679218</a> (Anmerkung Redaktion: Man beachte vor allem die Sekundärexplosionen auf Video 1)</i></p>
sputniknews.com 11.09.2021	RUS/NOR: Russian MiG-31 Scrambled to Escort Norwegian Air Force Plane Over Barents Sea	On 11 September, Russian airspace control over the Barents Sea discovered an air target approaching the Russian state border. "To identify the air target and prevent a violation of the Russian State Border, a MiG-31 fighter from the air defence forces of the Northern Fleet was dispatched. The crew of the Russian fighter identified the air target as an aircraft of the P-3C Orion base patrol aircraft of the Norwegian Air Force and escorted it over the Barents Sea," the Russian National Defence Control Centre said in a statement. After the foreign military aircraft turned away from the border, the Russian fighter returned to its home airfield. It is noted that the flight of the Russian aircraft was carried out in accordance with international rules for the use of airspace.
reuters.com 11.09.2021 11:35 PM CEST	Drone attack hits near U.S. forces in Erbil, northern Iraq	A drone attack hit near U.S. forces stationed at Erbil International Airport in northern Iraq on Saturday, Iraqi Kurdish security officials said. The internal security service for Iraq's autonomous Kurdish region, of which Erbil is the capital, initially said three rockets had hit near the airport. A second statement by the Kurdish counter-terrorism force said the attack had been carried out by explosive-laden drones. There were no immediate reports of casualties. Witnesses said they heard at least six explosions in the area.

		The airport in Erbil, the capital of the autonomous Kurdish region, has come under attack several times in the past year, including by drones carrying explosives. U.S. officials blame previous attacks on Iran-aligned Shi'ite Muslim militias which have vowed to fight until the remaining 2,500 U.S. military personnel leave the country.
jpost.com 11.09.2021 05:08 AM	ISR/GAZA: IDF strikes Gaza after rocket is fired at Eshkol	The IDF carried out an airstrike in Gaza on Friday night after Hamas shot a rocket towards Eshkol. The rocket was intercepted by the Iron Dome. The IDF made a statement that they struck a Hamas position used for shooting, a storage facility next to a school and mosques, and a military facility that creates cement for tunnels.  <i>(Footage of IDF striking a Hamas position used for shooting, a storage facility next to a school and mosques, and a military facility that creates cement for tunnels abrufbar unter: <a href="https://www.jpost.com/breaking-news/idf-forces-clash-with-palestinians-near-hebron-report-679145">https://www.jpost.com/breaking-news/idf-forces-clash-with-palestinians-near-hebron-report-679145</a>)</i>
		<b>Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance</b>
collinsaerospace.com 20.09.2021	USAF: Collins Aerospace's MS-177 ISR sensor now supporting Global Hawk operational missions	The USAF recently completed its first RQ-4B Global Hawk Block 30 unmanned aerial system (UAS) operational mission carrying Collins Aerospace's MS-177 multi-spectral imaging (MSI) sensor. The MS-177 long range wide area multi-spectral imaging (MSI) sensor enhances the Global Hawk's ISR mission capabilities by providing greater standoff range and more actionable intelligence to address challenges and achieve overmatch on the battlefield. The MS-177 family of systems are long-range ISR sensors that provides advanced multispectral imaging capability enabling high-resolution, long-range focus and precise identification of targets and situational awareness, day, or night, on land or sea.  The MS-177 sensor evolved from the proven Senior Year Electro-optical Reconnaissance System (SYERS)-2C flown on manned aircraft. SYERS has serviced combatant commander's intelligence needs for more than 20 years and has regularly been enhanced to keep pace with evolving war fighter threats. The MS-177 now provides increased mission capabilities to the RQ-4B Global Hawk Block 30 UAS to meet current and evolving mission needs and threats.
leonardocompany.com	Italy joins UK development of next-	Italy has joined the UK's development of the new European Common Radar System Mark 2 (ECRS Mk2) radar for the Eurofighter Typhoon. The ECRS Mk2 radar, currently being designed and built by Leonardo for integration

14.09.2021	generation Eurofighter Typhoon radar	onto the Eurofighter Typhoon aircraft by BAE Systems, will be at the cutting edge of advanced fighter radar technologies. It features a multi-functional array (MFA) that will give Typhoon a world-leading reprogrammable electronic warfare capability, including wide band electronic attack, in addition to traditional radar functions. This means that it can find and then blind an adversary's radar, increasing the Eurofighter Typhoon's lethality and survivability, and the survivability of other systems. The ECRS Mk2 programme continues to progress at pace and on schedule with initial system hardware being delivered to BAE System Warton in 2022 for aircraft integration and flight trials.
janes.com 10.09.2021	KOR : South Korea to develop micro-satellite reconnaissance system from 2022	South Korea has announced plans to develop a micro-satellite-based reconnaissance system from 2022 to enhance its capability to detect security threats such as North Korea's mobile missile launchers. The country's Defense Acquisition Program Administration (DAPA) said in a 10 September statement that the new reconnaissance system will comprise multiple clusters of ultra-small satellites, each operating in low-Earth orbit, and will be able to quickly identify anomalies within a designated area of detection. The system will feature early warning capabilities, said DAPA, with the Yonhap News Agency reporting that the first set of micro-satellites is slated for launch in 2025. DAPA pointed out that the micro-satellite system will be used to complement a number of larger military reconnaissance satellites being developed under the supervision of South Korea's Agency for Defense Development (ADD).
economictimes. indiatimes.com 10.09.2021	IND : Major boost coming for air surveillance as India's mega eye-in-the-sky plan gets final clearance	<p>The indigenous project entails making six airborne early-warning and control (AEW&amp;C) aircraft, which will add to the surveillance capacity of the Indian Air Force along the LoC and the LAC. Under the DRDO project, indigenous 360-degree coverage active electronically scanned array (AESA) radars will be mounted on six narrow-body Airbus-321 passenger planes. These planes will come from Air India's existing fleet. According to sources, the planes will be purchased from Air India at much cheaper rates. Airbus will then help modify them by mounting India-made radars and other necessary tools. The idea behind the project is to bring India on par with China and Pakistan in surveillance capability. According to reports, both these neighbouring countries are considerably ahead of India in this regard. The final deadline given to the AEW&amp;C projects is seven years from now. The first testing is expected to commence in four years' time.</p> <p>At present, the IAF's surveillance toolkit is consisted of three Israeli Phalcon AWACS mounted on IL-76 transport planes. They can do 360-degree radar coverage at a 400-km range. These apart, there also are two indigenous 'Netra' AEW&amp;C aircraft with the IAF. These can do 240-degree coverage in a 250-km range.</p>
ga.com 09.09.2021	US ARMY:	General Atomics Electromagnetic Systems (GA-EMS) will partner with the U.S. Army Combat Capabilities Development Command (DEVCOM) Aviation & Missile Center (AvMC) to develop sensors for weapons in the

	General Atomics, U.S. Army to Develop Target Acquisition Sensors	Anti-Access and Area Denial (A2AD) environments. Under a Cooperative Research and Development Agreement (CRADA) they will develop target acquisition and tracking sensors and algorithms that will help advance critical technologies needed for missile and weapon systems to operate in contested environments at extended ranges, a GA-EMS release said. "Target acquisition and tracking are paramount to enabling advanced weapon systems and technologies that support the Army's modernization efforts," stated Scott Forney, president of GA-EMS. "In collaboration with the U.S. Army, GA-EMS will leverage our decades of experience in the development, testing, and fielding of a variety of weapon, electro-optical infrared (EO/IR) sensors, and Laser Detection and Ranging (LADAR) systems to create the next generation long range precision fires capabilities for the multi-domain battlespace," he said.
		<b>Cyber- und Electromagnetic Warfare</b>
globaltimes.cn 22.09.2021	CHN: China's J-16D electronic warfare jet to make debut at Airshow China	The J-16D, the electronic warfare variant of China's J-16 fighter jet, will make its debut at the Airshow China next week. This indicates that the aircraft is in service with the People's Liberation Army (PLA) and will give it an edge in electromagnetic space with powerful jamming capability, experts said on Wednesday. The J-16D is China's domestically developed electronic warfare aircraft based on the J-16 fighter jet, Guangdong-based news website southcn.com reported. One of the most distinguishing characteristics of the J-16D, compared to the original J-16, is the two large electronic warfare pods on the aircraft's wings, which will be used to disrupt and jam hostile electronic equipment, including radar and communications systems, analysts said, noting that it also canceled the original infrared search and track sensor in front of the cockpit since its main role is no longer air-to-air combat. The J-16D is also equipped with a new avionics system and domestically made engines. It has undergone significant structural changes, including the use of a large amount of composite materials, Wang Ya'nan, chief editor of Beijing-based Aerospace Knowledge magazine, told the Global Times on Wednesday. In real combat situations, electronic warfare aircraft can accompany other warplanes and provide them with electronic warfare support, for example, conducting electronic jamming or deception, Wang said, noting that they can also launch direct attacks on hostile radar installations or early warning aircraft.
defense.gov 14.09.2021	USN : Modification of AN/ALQ-218 avionics in	Northrop Grumman Systems Corp. is awarded a \$12,850,000 firm-fixed-price modification (P00007) to a previously awarded contract (N0001920C0007). This modification provides for the retrofit of Airborne Electronic Attack Weapons Replacement Assembly with 100 production kits required for the modification of ALQ-218

	support of EA-18G upgrades	<p>avionics in support of EA-18G upgrades, to include 64 kits for the Navy, and 36 kits for the government of Australia. Work is expected to be completed in November 2023.</p> <p><i>(Ergänzende Information datasheets.globalspec.com: Northrop Grumman's AN/ALQ-218 Radar Warning Receiver / Electronic Support Measures / Electronic Intelligence (RWR/ESM/ELINT) Sensor System is the U.S. Navy's choice for airborne situational awareness and signal intelligence gathering. A passive, high performance SIGINT sensor system, the AN/ALQ-218 protects the warfighter by detecting, identifying, locating and analyzing sources of radio frequency (RF) emission. The AN/ALQ-218 family is currently in production and installed on both the EA-18G and P-8A Poseidon ASW/ASUW aircraft.)</i></p>
northropgrumman.com 09.09.2021	Northrop Grumman Demonstrates Next Generation Electronic Warfare and Radar Interoperability at Northern Lightning	<p>Making its first test flight, the Northrop Grumman Corporation Next Generation Electronic Warfare (NGEW) system joined the AN/APG-83 Scalable Agile Beam Radar (SABR) at Exercise Northern Lightning. NGEW and SABR demonstrated full interoperability in a realistic and contested electromagnetic spectrum environment. Flying on the company's test bed aircraft, NGEW and SABR demonstrated full pulse-to-pulse, multi-function interoperability in a contested operational environment. With SABR successfully engaging multiple air and ground targets, NGEW detected and identified a range of advanced threats, employing advanced jamming techniques capable of defeating those threats when required. The greater bandwidth, speed and agility of the APG-83 enables the F-16 to detect, track and identify a greater number of targets faster and at longer ranges. In addition, it features all-weather, high-resolution synthetic aperture radar mapping to present the pilot with a large surface image for more precise target identification and strike compared to legacy systems.</p>
		<b>Boden- und seegestützte Luftverteidigungssysteme</b>
jpost.com 23.09.2021 22:33	USA/ISR: House of Representatives approves \$1b. for Iron Dome by landslide	<p>The US House of Representatives on Thursday approved a stand-alone bill to provide Israel with \$1 billion for replenishing the Iron Dome missile-defense system, following two days of contentious debate within the Democratic Party. The vote passed with an overwhelming 420-9 majority. The new Iron Dome funding is now on its way to the Senate.</p>
tass.com 23.09.2021	TUR:	<p>Turkey has no intention to reverse its decision on the purchase and use of Russian S-400 anti-aircraft missile systems, Turkish President Recep Tayyip Erdogan told reporters aboard his plane returning from the United</p>

	Turkey has no intention to backtrack on Russia's S-400 air defense systems — Erdogan	States on Thursday. "I cannot say that the Turkish-American relations are living through a sound phase. Why? Listen, we purchased F-35s [US fifth-generation fighters] but they were not delivered to us. America should first deal with this situation instead of making excuses to us, referring to [the problem with their compatibility with] S-400s. Of course, we will do everything necessary, proceeding from international law. For us, the work with S-400s has been completed and we will not backtrack. The United States should understand this," the newspaper Sabah quoted Erdogan as saying.
the-japan-news.com 17.09.2021	JPN: Japan's missile defense strategy at a standstill	The government is striving to enhance its missile defense system to counter North Korea and China's development of ballistic missiles, but little progress has been made since 2020, when it gave up on a plan to introduce the land-based Aegis Ashore missile interception system. Japan's ballistic missile defense system involves two stages. The Standard Missile-3 (SM-3) carried by Aegis destroyers intercepts missiles outside the Earth's atmosphere, and if that fails, the Patriot Advanced Capability-3 (PAC-3) surface-to-air guided missile shoots them down. Currently, there are eight Aegis destroyers capable of ballistic missile defense, but they are assigned to defend the Nansei Islands and other areas as well. Additional duties would put too great a burden on them. There is also a limit to what Japan can do if multiple missiles are launched at the same time.
tass.com 16.09.2021	RUS: First batch of Russian-made S-500 system enters service	The advanced S-500 Prometey air defense system is now being rolled out to Russian troops after the completion of state trials, Russian Deputy Prime Minister Yuri Borisov told journalists on Thursday. Produced by the Almaz-Antey Concern, the S-500 air defense system is designed to defeat all possible means of an air and space attack by a potential enemy across the entire range of heights and speeds. The specialist training for working with this system has been conducted since 2017. The S-500 will replace the S-400 Triumph air defense system.
ekathimerini.com 13.09.2021	GRC/SAU: Greece sends missile system to Saudi Arabi	Greece is sending a battery of Patriot anti-aircraft missiles to Saudi Arabia. The battery, and the 120 men operating it, will remain in Saudi Arabia for an undetermined length of time to strengthen the country's air defenses. The Greek mission is a part of an international initiative following devastating drone attacks against refineries of Saudi Arabia's public oil company Aramco in September 2019. The attack revealed the vulnerability of such installations.
boeing.com 12.09.2021	MDA: Boeing, Missile Defense Agency Demonstrate Advanced Missile Defense Capability in Successful Flight Test	Boeing and the U.S. Missile Defense Agency (MDA) successfully demonstrated an advanced interceptor capability for the Ground-based Midcourse Defense (GMD) system, which defends the U.S. from rogue-state long-range intercontinental ballistic missile threats. The test included launching a Ground-Based Interceptor (GBI) into space with a three-stage booster in two-stage mode, allowing the GBI to release the kill vehicle earlier in flight, providing an earlier opportunity to intercept and defeat a missile threat. The new capability, made possible through digital system modelling software upgrades, gives operators the real-time choice between a

		two-stage or three-stage interceptor, depending on the threat's location and speed. The stage mode determines when the kill vehicle is released from the GBI. This achievement will allow GBIs to be modernized and fielded with this critical capability as a part of the MDA's Service Life Extension Program.
pib.gov.in 09.09.2021	IND: DRDO hands over air defence missile (MRSAM) System to Indian Air Force	<p>In a significant boost to India's defence capabilities, the first deliverable Firing Unit (FU) of Medium Range Surface to Air Missile (MRSAM) System was handed over to Indian Air Force (IAF). The MRSAM (IAF) is an advanced network centric combat Air Defence System developed jointly by Defence Research and Development Organisation (DRDO) and Israel Aerospace Industries (IAI) in collaboration with the Indian industry comprising of private and public sectors including MSMEs.</p> <p>The MRSAM system provides point and area air defence for ground assets against a wide range of threats including fighter aircraft, UAVs, helicopters, guided and unguided munitions, sub-sonic &amp; supersonic cruise missiles etc. It is capable of engaging multiple targets at ranges up to 70 kms in severe saturation scenarios. The missile is powered by indigenously developed rocket motor and control system for achieving high manoeuvrability during the terminal phase. The firing unit comprises of Missiles, Combat Management System (CMS), Mobile Launcher Systems (MLS), Advanced Long Range Radar, Mobile Power System (MPS), Radar Power System (RPS), Reloader Vehicle (RV) and Field Service Vehicle (FSV).</p>
		<b>Boden- und seegestützte Einsatzkräfte, Strategische Kampfmittel und Space Forces</b>
reuters.com 20.09.2021	CHN: Tianzhou-3 cargo spacecraft docks with China space station module	<p>A Chinese robotic resupply cargo spacecraft successfully docked with an orbiting space station module on Monday in the fourth of 11 missions needed to finish building China's first permanent space station by the end of next year. A Long March-7 rocket carrying the Tianzhou-3, or "Heavenly Vessel" in Chinese, blasted off at 3:10 p.m. Beijing time (0710 GMT) from the Wenchang Space Launch Center on the southern island of Hainan, state media reported. Tianzhou-3 will deliver fuel and supplies for three astronauts due to travel to the Tianhe module in October. Their planned six-month stay would be the fifth mission in the series and the last for this year.</p> <p>Next year, China will launch two additional core modules for the space station - Wentian and Mengtian - on Long March 5B rockets - China's most powerful space transport vehicles. China began building the three-module space station in April with the deployment of Tianhe, followed by a three-month crewed mission that ended last week.</p>

<p>en.yna.co.kr 20.09.2021</p>	<p>KOR: S. Korea to deploy homegrown SLBM next year: sources</p>	<p>South Korea plans to put into operations a newly unveiled homegrown submarine-launched ballistic missile (SLBM) at sea around the second half of next year, sources said Monday. Last week, the country unveiled its first homegrown SLBM by announcing the successful test-launch from the 3,000-ton-class Dosan Ahn Chang-ho submarine. "Several more rounds of tests will be conducted to ensure its reliability. After wrapping up development by early next year, we will begin mass production in the first half of 2022. The missiles will likely then be deployed for actual operations starting in the second half," a government source said. The SLBM, believed to be a variant of the country's Hyunmoo-2B ballistic missile, has a maximum flight range of 800 kilometers. During the underwater test last week, the missile reportedly flew around 400 kilometers before striking a target. It will be equipped with conventional warheads, as South Korea is barred from going nuclear, according to officials.</p> <p>As the country's first 3,000-ton-class submarine, the Dosan Ahn Chang-ho is equipped with six vertical launch tubes. The Navy received the mid-class submarine last month. Another government source said the military is working to deploy a total of 78 units to nine mid-class submarines, including the Dosan Ahn Chang-ho, in phases in accordance with the country's procurement plan. South Korea is working on a project to build two more 3,000-ton-class submarines by 2023 and is planning to secure six additional units of a larger class that have up to 10 launch tubes, each, according to officials. Last year, the defense ministry unveiled a plan to develop a 4,000-ton next-generation submarine to boost its underwater capabilities.</p>
<p>taiwannews.com.tw 17.09.2021</p>	<p>TWN: Taiwan to mass produce extended range anti- ship missiles</p>	<p>Taiwan's Cabinet on Thursday (Sept 16) approved a military weapons procurement plan that allows for the mass production of an extended-range variant of the Hsiung Feng III anti-ship missile on mobile launchers, as part of the defense ministry's development of land-based anti-ship missile systems. An analyst familiar with national defense technology research pointed out the maximum range of this new Hsiung Feng III missile is almost 400 kilometers, which greatly increases Taiwan's ability to keep China's military at bay, Liberty Times reported.</p> <p>According to the Ministry of National Defense's report on the weapons procurement plan, the military's development of land-based anti-ship missile systems is divided into two phases, per Liberty Times. The first phase is the continued production of current-model Hsiung Feng II and III missiles, and mobile launchers from 2022 to 2026. The second phase is the mass production of extended-range Hsiung Feng III missiles and mobile launchers from 2023 to 2026. The Hsiung Feng III missiles are currently deployed on the Navy's Cheng Kung-class, Chin Chiang-class, and Tuo Chiang-class warships, as well as in strategically placed land-based mobile launchers.</p>

<p>defbrief.com 16.09.2021</p>	<p>AUS: Australia buying Tomahawk missiles for air warfare destroyers</p>	<p>the country's prime minister said the Australian defense ministry would buy Tomahawk cruise missiles for the navy. They will be fielded on the brand new Hobart-class air warfare destroyers, giving them the ability to strike land targets at greater distances, with better precision. Tomahawk will provide a much needed capability for the Royal Australian Navy, which basically has no land strike capability beyond guns.</p>
<p>en.yna.co.kr 13.09.2021</p>	<p>PRK: N. Korea test-fires new long-range cruise missiles: state media</p>	<p>North Korea has successfully test-fired a new type of long-range cruise missile over the weekend, state media reported Monday, a low-level provocation amid stalled talks with the United States. The North is banned from using ballistic technology under multiple U.N. Security Council resolutions. Cruise missiles, however, are not subject to the sanctions as they are considered less of a threat than ballistic missiles. The missiles "traveled for 7,580 seconds along an oval and pattern-8 flight orbits in the air above the territorial land and waters" in North Korea and "hit targets 1,500 km away," the North's official Korean Central News Agency (KCNA) said. Experts say the North's newly unveiled weapon resembles the U.S.' long-range Tomahawk and South Korea's Hyunmoo-3C cruise missiles.</p> <p><i>(Ergänzende Information en.yna.co.kr vom 14.09.2021: South Korea and the United States have yet to figure out detailed information on North Korea's latest cruise missile tests, including the location of their launch and impact sites, sources said Tuesday. South Korea's Joint Chiefs of Staff (JCS) has not disclosed any details about the latest tests, sparking speculation that the South Korean and U.S. authorities failed to detect the test-firings, at least on a real-time basis. "Cruise missiles move slower and are less powerful than ballistic missiles, so it would be relatively easy to counter an attack involving cruise missiles. But they travel at lower altitudes, making them hard to detect with radars, and can strike targets more precisely," Chang Young-keun, a missile expert at Korea Aerospace University, said. The recently tested missiles appeared to have flown at a maximum altitude of around 100 meters, Chang said, adding that the current air defense system is designed to respond to ballistic missiles flying higher than cruise missiles.)</i></p>
<p>defense.gov 10.09.2021</p>	<p>US ARMY: AGM-114 Hellfire</p>	<p>Lockheed Martin Missiles and Fire Control was awarded a \$101,332,412 modification (P00073) to contract W31P4Q-18-C-0130 for procurement of Hellfire missiles and containers. Work has an estimated completion date of Sept. 30, 2024. Fiscal 2019, 2020 and 2021 procurement, defense-wide funds; and 2010 Foreign Military Sales (Indonesia, Greece, United Arab Emirates and Kuwait) funds in the amount of \$101,332,412 were obligated at the time of the award.</p>
<p>asia.nikkei.com 09.09.2021</p>	<p>CHN: US Space Force chief convinced China would use satellite killers</p>	<p>Gen. John Raymond, the chief of the U.S. Space Force, says that the security of the final frontier faces a "full spectrum of threats" from China that needs to be countered by allied cooperation. The Chinese have built and are building "everything from reversible jammers of our GPS system -- which provides navigation and timing with precision --, to jamming of communications satellites," Raymond told Nikkei in a recent telephone interview. "They've got missiles they can launch from the ground and destroy satellites." "I'm convinced that</p>

		these capabilities that they're developing would be utilized by them in their efforts in any potential conflict," Raymond added. Raymond was the first person appointed to lead the Space Force, established in 2019. The body serves as the sixth branch of the military at a level comparable to that of the army and navy.
		<b>Geo- und Sicherheitspolitik, militärische Übungen</b>
reuters.com 23.09.2021	SWE/NOR/DNK: Sweden to deepen military ties with Norway, Denmark, Swedish TV reports	<p>Sweden will sign a defence cooperation agreement with Norway and Denmark this week to counter a deteriorating security situation in the Baltic region, Sweden's TV4 said on Thursday. Sweden, which is not a member of NATO but enjoys close ties with the bloc, is rebuilding its military after decades of neglect as a result of growing tensions with Russia in the Baltic region.</p> <p>"If there is a crisis situation we will be considerably better prepared in that we will have coordinated our planning in this region," Hultqvist told TV4. "In practice, we will be able to react more quickly." He said that the combined resources of the three countries would help deter a potential antagonist.</p> <p>Sweden has boosted military spending - including agreeing to buy Patriot missiles from the United States - and deepened its military cooperation with NATO and neighbouring countries like Finland in recent years in response to heightened tensions with Russia. "We know that Russia is prepared to use military power in order to achieve its political goals and aims," Hultqvist said. "We are deepening our cooperation with the other countries in this region precisely in order to raise the bar in preventing disruptions and crises."</p>
flightglobal.com 23.09.2021	USAFE: First USAF F-35As stationed in Europe due at RAF Lakenheath in December	The US Air Force's (USAF's) first Lockheed Martin F-35A stealth fighters to be permanently stationed in Europe are expected to arrive at Royal Air Force (RAF) Lakenheath in the UK this December. The service plans to permanently station two squadrons – 48 aircraft – at the Suffolk base, alongside existing Boeing F-15 fighters. The USAF plans to quickly start flying its F-35As alongside allies and partners in Europe that already operate the type, General Jeffrey Harrigan, commander of US Air Forces in Europe said on 21 September at the Air Force Association's Air, Space and Cyber conference in National Harbor, Maryland. In June, Wolters projected that by 2030 there could be more than 450 examples of the F-35 in Europe.

aljazeera.com 22.09.2021	DZA/MAR: Algeria closes airspace to all Moroccan planes	Algeria's presidency has announced the closure of the country's airspace to all Moroccan planes, according to the presidency, in the latest dispute between the two neighbours at odds mainly over Western Sahara.
globaltimes.cn 21.09.2021	CHN: PLA holds Y-20 aircraft transport mission, landing drills in South China Sea	In two recent, separate moves in the South China Sea, the Chinese People's Liberation Army (PLA) dispatched Y-20 large transport aircraft to reefs for troop transport missions, and conducted amphibious landing drills under complex conditions, showing the PLA's capabilities in safeguarding peace and stability in the region, analysts said on Tuesday. Carrying veterans who were garrisoned at islands and reefs in the Nansha Islands in the South China Sea, several new-type transport aircraft of the PLA Air Force took off from airfields on Yongshu Reef, Zhubi Reef and Meiji Reef on Thursday and returned to the Chinese mainland, the PLA South Sea Fleet revealed in a story published in its social media account on Saturday.
government.se	SWE: Objectives for Swedish total defence 2021–2025 - Government bill 'Totalförsvaret 2021–2025'	Sweden's military defence is being designed and dimensioned to be able to respond to an armed attack against Sweden. The resilience of the force structure needs to be enhanced and better balance achieved between support and combat units. A basic defence capability needs to be ensured over time. Annual spending on military defence will increase with approximately EUR 2.7 billion totalling EUR 8.9 billion by 2025. This is an increase of around 45 percent compared with 2020 and 95 percent compared with 2015.  The new combat aircraft system JAS 39 E will be commissioned during the period 2021–2025 and will along with the existing JAS 39 C/D be organised in six fighter squadrons. Additional missiles and electronic warfare capabilities will be procured.
defenseone.com 20.09.2021	USAF: Air Force Secretary Warns of China's Burgeoning Nuclear Arsenal, Reveals B-21 Detail	In his second major speech since becoming Air Force secretary two months ago, Kendall called out various Chinese weapons developments as reason for concern. Kendall warned that China's nuclear-weapons development, including building what is believed to be at least 100 intercontinental ballistic missile silos, could signal a shift in its "no first use" policy, meaning it would only use nuclear weapons if fired upon. Kendall also warned that China could be developing weapons in space.  While Kendall spent much of his speech and press conference warning about China's weapons modernization, he disclosed the five B-21 stealth bomber test aircraft were being built at a Northrop Grumman factory in Palmdale, California. This marks the first time the Air Force has said how many bombers are under construction as part of the secret but acknowledged programs. "You will never hear me make optimistic predictions about programs—all programs have risk and the same is true of the B-21—but at this point at least, the program is

		<p>making good progress to real fielded capability," he said. "This investment in meaningful military capabilities that project power and hold targets at risk anywhere in the world addresses my number one priority.</p> <p>Kendall also expressed support for the Next-Generation Air Dominance (NGAD), a classified effort to build a new-generation fighter jet.</p>
scmp.com 19.09.2021	CHN/IND: Chinese military steps up night drills and brings in more advanced equipment close to Indian border	<p>"The replacement of weapon systems and equipment in the Western Theatre Command has been accelerated in recent years, thanks to tensions with India over border disputes," Zhou Chenming, a researcher from the Yuan Wang military science and technology institute in Beijing, said. The Western Theatre Command includes the Xinjiang and Tibet military districts and is responsible for the border security along the contested frontier with India, which last year saw a prolonged stand-off between the two militaries. Song Zhongping, a former PLA instructor, said almost all the old generation J-7 fighter jets in the Western Military Command had been replaced by the advanced J-16 multirole strike fighter. The military plans to replace all its 300 J-7s with around 200 J-16s by 2025, according to a source close to the People's Liberation Army.</p>
voanews.com 18.09.2021	PRK: Photos Show North Korea Expanding Uranium Enrichment Plant	<p>Recent satellite images show North Korea is expanding a uranium enrichment plant at its main Yongbyon nuclear complex, a sign that it is intent on boosting the production of bomb materials, experts say. "The expansion of the enrichment plant probably indicates that North Korea plans to increase its production of weapons-grade uranium at the Yongbyon site by as much as 25%," Jeffrey Lewis and two other experts at Middlebury Institute of International Studies at Monterey said in a report.</p>
upi.com 15.09.2021	USAF: U.S. B-2 Spirit bombers return from deployment to Iceland	<p>Three U.S. Air Force B-2 Spirit stealth bombers returned to Whiteman Air Force Base in Missouri after a deployment to Keflavik Air Base, Iceland, that included a dozen multinational missions over the past month. The bombers, from the 509th Bomb Wing, left Iceland on Saturday, the Air Force announced Tuesday. They integrated with British Royal Air Force Eurofighter Typhoons and U.S. F-15 Eagle aircraft from the 48th Fighter Wing, RAF Lakenheath, England. During the deployment, the B-2s also participated in a training mission with Norway over the North Sea. That exercise was designed to integrate Norwegian F-35 Lightning II fighter jets to test escort procedures, stand-off weapon employment and suppression of air defense.</p>
reuters.com 15.09.2021	TWN: Taiwan lands fighters on highway as annual drills reach peak	<p>Taiwanese fighter jets landed on a makeshift runway on a highway strip on Wednesday overseen by President Tsai Ing-wen as annual drills reached their peak, skills that would be needed in the event China attacks and targets Taiwan's vulnerable air bases. Three fighters - an F-16, French-made Mirage and a Ching-kuo Indigenous Defence Fighter - plus an E-2 Hawkeye early warning aircraft landed in rural southern Pingtung county on a highway strip specially designed to be straight and flat for rapid conversion from a road into a runway. Taiwan</p>

		has five emergency highway runways across the island which can be pressed into service in the event a Chinese attack takes out air force bases, meaning the air force will still be able to operate. The majority of Taiwan's air bases are on its flat west coast, facing China, and would likely come under almost immediate heavy missile and aerial bombardment in case of war. Taiwan's mountainous east coast is home to two other air bases, with hangers hewn deep into the rock, providing much more solid protection.
jpost.com 14.09.2021	IRN: Iran will have enough uranium for nuclear weapon in one month - report	Iran is on track to obtaining enough enriched uranium for a nuclear bomb within a month, according to a report published on Monday by the Institute for Science and International Security (ISIS), a US-based think tank. The institute estimated, in a worst-case scenario, that Iran could produce enough weapons-grade uranium for one nuclear weapon in as little as a month. In three months it could produce enough for a second weapon and in five months for a third. Iran already has 200 grams of enriched uranium metal, which is an integral element for the production of nuclear weapons.
tass.com 13.09.2021	RUS: Over 50 targets destroyed in massive airstrike during Zapad-2021 drills - Defense Ministry	<p>The coalition forces group aviation carried out a massive strike, destroying over 50 targets during the Zapad-2021 military exercise at the Mulino Proving Ground, Russian Defense Ministry announced Monday. "The massive airstrike [...] involved over 60 planes, including Su-24MR reconnaissance planes, 12 Su-25 attack planes, 16 Su-30 multipurpose fighters, 6 Su-24 bombers and 6 Tu-22M3 long-range strategic bombers," the Ministry said, adding that over 50 mock enemy's targets were hit. The Tu-22M3 planes used 1.5-tonne bombs, with each plane dropping eight of them. The planes took off from airbases in Lipetsk, Voronezh, Kaluga, Saratov and Tambov Regions. The strike aviation was covered by Su-35S planes of the Western Military District. The strikes were corrected by deep reconnaissance groups of the Airborne Troops Special Operations forces.</p> <p><i>(Ergänzende Information tass.com vom 14.09.2021: In the course of the main stage of the tactical flight exercise, the crews of MiG-31BM supersonic high-altitude interceptor-fighters of Russia's Central Military District launched air-to-air missiles at the Telemba proving ground in Buryatiya, in East Siberia with the use of the modern Zaslon-M onboard radars. They also launched air-to-air missiles at the Strizh targets operating in the near layers of the stratosphere. In total, more than 20 sorties were carried out during the practical stage," the report says.)</i></p> <p><i>(Ergänzende Information eng.mil.ru vom 14.09.2021: As part of the joint strategic exercise Zapad-2021, the crews of bombers of the Leningrad air force and air defence army of the Western Military District destroyed buried command posts, infrastructure facilities and columns of armored and automotive equipment of the mock enemy at the Luzhsky training ground in the Leningrad region. Previously, the crews of Su-24MR reconnaissance aircraft made sorties to the test site, which detected and transmitted the coordinates of ground targets for strike aircraft via closed communication channels. During the drawing of the tactical episode, the flight crew of the bomber aviation of the WMD worked out the use of</i></p>

		<i>aviation bombs weighing 250 kg. Combat use was carried out using the latest computing subsystem SPV-24, which allows you to perform bombing with maximum accuracy.)</i>
tass.com 13.09.2021	RUS: Over 50 transport helicopters involved in landing operation during Zapad-2021 drills	Over 50 Mi-8 helicopters landed the main forces of a mobile strike echelon and a tactical airborne force during the Zapad-2021 military exercise at the Mulino Proving Ground, Nizhny Novgorod Region. The Sarmat-2 light vehicles were landed simultaneously along with the personnel. The landing operation was covered by Mi-24 and Mi-28N strike helicopters. The initial landing party was carried by 24 Mi-8 helicopters, followed by a tactical party, carried by 32 machines, supported by Ka-52 and Mi-28N helicopters. To reinforce the landing party, the helicopters delivered Sarmat-2 vehicles and D-30 howitzers on external hardpoints, along with various cargo and ammunition.
rfa.org 13.09.2021	USN: US Aircraft Carrier Commander Asserts Freedom to Navigate the South China Sea	<p>Rear Adm. Dan Martin, commander of the Carl Vinson Strike Group deployed in the South China Sea has told RFA it aims to ensure the "freedom of all nations to navigate in international waters" -- a mission that saw it pass just 50 nautical miles from a Chinese survey ship operating in Indonesia exclusive economic zone (EEZ) this weekend. Just a few days earlier, the Chinese Maritime Safety Administration announced that all foreign vessels, including aircraft carriers entering what China considers to be its territorial waters had to notify Beijing and submit to Chinese supervision.</p> <p>Under international law, territorial waters are the 12 nautical miles of sea extending from a country's terrestrial territory. But China also includes waters around its newly-reclaimed artificial islands in its maritime jurisdiction despite protests from other countries in the region. "Any coastal state law or regulation must not infringe upon navigation and overflight rights enjoyed by all nations under international law," Rear Adm. Dan Martin said. "Unlawful and sweeping maritime claims including in the South China Sea pose a significant threat to the freedoms of the seas, including freedom of navigation, overflight and lawful commerce." "We're not going to be coerced or forced to cede the international norms," he said.</p>
jpost.com 12.09.2021	IRN: Iran training terror groups to operate advanced UAVs	Iran is training militias from various countries to operate advanced unmanned aerial vehicles at Kashan Base, Defense Minister Benny Gantz said Sunday. Gantz, who was speaking at the Institute for Counter-Terrorism Policy at Reichman University in Herzilya, said that the Islamic Republic is training militias from Iraq, Yemen, Lebanon, and Syria at the airbase north of the city of Isfahan and is trying to teach them how to manufacture Iranian drones. "Iran has created 'emissary terrorism' under the auspices of organized terror armies that help it achieve its economic, political, and military goals. Iran is trying to transfer its knowledge that will enable Iraq, Syria, and Lebanon. Also in the Gaza Strip, to produce advanced UAVs," he said. According to Gantz, terror operatives from those countries are being trained on flying Iranian UAVs at the base "which is the cornerstone

		of Iranian aerial terrorism in the region." Iranian drones can reach a range of 1,700 kilometers and their attacks have targeted assets belonging to the United States, Saudi Arabia, Israel as well as Sunni organizations in Syria and Iraq.
nzz.ch 11.09.2021	AUT/NATO: Österreich meldet massive Luftraumverletzung	Eine Boeing C-17 der Nato hat nach Angaben des Verteidigungsministeriums in Wien den österreichischen Luftraum «massiv» verletzt. Die Maschine überflog demnach am Freitag den Attersee in der Nähe von Salzburg in einer Höhe von 1000 Metern statt der vorgeschriebenen Flughöhe von rund 10 000 Metern. Das Flugzeug habe sich «wie ein Geisterfahrer auf einer Autobahn» verhalten und die Luftfahrt massiv gefährdet, sagte ein Sprecher des Ministeriums. Zwei österreichische Eurofighter eskortierten das Transportflugzeug aus dem Luftraum nach Ungarn, wo die C-17-Flotte der westlichen Militärallianz Nato stationiert ist. Solch eine schwere Luftraumverletzung habe es in den vergangenen zwanzig Jahren in Österreich nicht gegeben, sagte der Sprecher.
voanews.com 11.09.2021	USA/SAU: US Pulls Missile Defenses in Saudi Arabia Amid Yemen Attack	<p>The U.S. has removed its most advanced missile defense system THAAD and Patriot batteries from Saudi Arabia in recent weeks, even as the kingdom faced continued air attacks from Yemen's Houthi rebels, satellite photos analyzed by The Associated Press show. The redeployment of the defenses from Prince Sultan Air Base outside Riyadh came as America's Gulf Arab allies nervously watched the withdrawal of U.S. troops from Afghanistan, including their last-minute evacuations from Kabul's besieged international airport.</p> <p>Pentagon spokesperson John Kirby acknowledged "the redeployment of certain air defense assets" after receiving questions from the AP. He said the U.S. maintained a "broad and deep" commitment to its Mideast allies. "The Defense Department continues to maintain tens of thousands of forces and a robust force posture in the Middle East representing some of our most advanced air power and maritime capabilities, in support of U.S. national interests and our regional partnerships," Kirby said.</p>
rferl.org 09.09.2021	Russia To Show Off Military Might, Grip On Belarus During Zapad- 2021 Exercises	<p>Russia and Belarus will be the site of what could be the biggest military exercises in Europe in decades, which comes as Alyaksandr Lukashenka moves to integrate Belarus even closer not only militarily but politically with Russia, triggering fears he is bargaining away the country's sovereignty to its much bigger neighbor.</p> <p><i>(Vollständige Analyse von Tony Wesolowsky, senior correspondent for RFE/RL in Prague, covering Belarus, Ukraine, Russia, and Central Europe abrufbar unter:</i>  <a href="https://www.rferl.org/a/russia-exercises-qrip-on-belarus/31452506.html">https://www.rferl.org/a/russia-exercises-qrip-on-belarus/31452506.html</a>)</p>
ilmavoimat.fi 06.09.2021	FIN/USAF:	innish Air Force F/A-18 Hornets will train with a United States Air Force KC-135 Stratotanker aerial refueling aircraft on 7–9 September 2021. The Finnish Air Force conducts an air-to-air refueling (AAR) exercise with the

	Air-to-air refueling exercise 2/21 with the United States Air Force	United States Air Force two times a year. The objective of the exercises is to provide fighter pilots with AAR proficiency and currency training opportunities. Finnish F/A-18 pilots complete an AAR qualification as a part of their training. The exercise will involve Finnish F/A-18 Hornet multi-role fighters and a U.S. KC-135 Stratotanker. The exercise will be flown in Finnish airspace in an area bordering on Rovaniemi, Kuusamo, Kajaani and Oulu as a part of Finnish Air Force’s daily flight operations on 7–9 September 2021. The Finnish F/A-18s will fly from Rissala, Rovaniemi and Pirkkala air bases. The KC-135 will operate out of RAF Mildenhall.
ekathimerini.com 30.08.2021	GRC/USA: Greece-US alliance getting stronger	<p>Greece’s alliance with the United States is expected to be further cemented with an extension of the Mutual Defense Cooperation Agreement, scheduled to be signed at the end of September or early October. Kathimerini understands that negotiations between the sides, which have not yet been finalized, will stipulate a five-year extension, instead of one year, which has been the case since 1990 when the bilateral deal was first signed. The time frame and its extension, which the American side reportedly asked for, has been a point of contention between the two sides in previous years.</p> <p>According to sources, there have been discussions to expand the Larissa base in central Greece to include unmanned aerial vehicles. The first demonstration of MQ-9 drones by the US firm General Atomics Aeronautical Systems took place at the 110th Combat Wing in Larissa back in December 2019. The drone can have seamless cooperation with the Greek F-16 and can also interconnect with all NATO systems, upgrading the country’s defenses.</p> <p>Discussions also foresee the inclusion of two new locations: one in Evros, most likely in Xanthi, modeled on the one at Alexandroupolis – both in northern Greece – and another in the Aegean, probably in Skyros. These are two locations where Greece wants an increased American footprint and have been the topic of frequent discussion in the past among 23 other locations. At the same time, the upgrade of another port in northern Greece is under consideration, most likely Kavala, where American forces can be stationed. Greece is also seeking to secure a US commitment to ensure the peaceful settlement of disputes with Turkey in the Eastern Mediterranean.</p>

		<b>Analysen, Studien, Reports, Fact Sheets, Infographics, Podcast und Videos</b>
breakingdefense.com 21.09.2021	ISR: Israel Wants To Put New Equipment Inside The F-35: Exclusive Q&A With Top Officer	<p>“The effort is to find the right balance between the US restrictions and the Israeli operational demands,” Brig. Gen. Nir Barkan, Israeli Air Force Chief of the Air Staff and the number two officer for the IAF, said in an exclusive interview with Breaking Defense.</p> <p><i>(Vollständiges Interview abrufbar unter:</i>  <a href="https://breakingdefense.com/2021/09/israel-wants-to-put-new-equipment-inside-the-f-35-exclusive-qa-with-top-officer/">https://breakingdefense.com/2021/09/israel-wants-to-put-new-equipment-inside-the-f-35-exclusive-qa-with-top-officer/</a><i>)</i></p>
news.usni.org 20.09.2021	USN: USNI News Fleet and Marine Tracker: Sept. 20, 2021	<p>These are the approximate positions of the U.S. Navy’s deployed carrier strike groups and amphibious ready groups throughout the world as of Sept. 13, 2021, based on Navy and public data. In cases where a CSG or ARG is conducting disaggregated operations, the chart reflects the location of the capital ship.</p> <p><i>(Infographic abrufbar unter:</i>  <a href="https://news.usni.org/2021/09/20/usni-news-fleet-and-marine-tracker-sept-20-2021">https://news.usni.org/2021/09/20/usni-news-fleet-and-marine-tracker-sept-20-2021</a><i>)</i></p>
scmp.com 11.09.2021	CHN: Regional stability ‘at risk’ from China’s growing use of military drones	<p>Three Chinese unmanned aerial vehicles spotted near Japan last month highlighted the increased focus on the technology. But Beijing is not alone in developing and deploying drones in the region and experts say an arms race could follow.</p> <p><i>(Vollständige Analyse abrufbar unter:</i>  <a href="https://www.scmp.com/news/china/military/article/3147997/regional-stability-risk-chinas-growing-use-military-drones">https://www.scmp.com/news/china/military/article/3147997/regional-stability-risk-chinas-growing-use-military-drones</a><i>)</i></p>
defmin.fi 09.09.2021	FIN: Government’s Defence Report published	<p>At its meeting on 9 September 2021, the Government approved the Defence Report to be submitted to Parliament. The Report and its implementation ensure that Finland's defence capability meets the requirements of the operating environment. The Report and its implementation will extend until the end of decade.</p> <p><i>(Vollständiger Report in englischer Sprache abrufbar unter:</i>  <a href="https://julkaisut.valtioneuvosto.fi/bitstream/handle/10024/163407/VN_2021_80.pdf?sequence=4&amp;isAllowed=y">https://julkaisut.valtioneuvosto.fi/bitstream/handle/10024/163407/VN_2021_80.pdf?sequence=4&amp;isAllowed=y</a><i>)</i></p>
gov.uk 09.09.2021	GBR: UK armed forces equipment and formations 2021	<p>This is an annual publication which provides information on the numbers and types of equipment and f 5. Air Equipment and Formations. This section provides the main findings on the UK armed forces aircraft, and formations which are primarily air-based, as at 1 April 2021.</p>

		<p><b>5.1 Fixed-wing Aircraft</b>  Typhoons are the most common type of Fixed-wing platform with 137 aircraft at 1 April 2021. The UK armed forces had 555 Fixed-wing platforms at 1 April 2021, an increase of 26 since 2020. Of the 426 Fixed-wing aircraft (for which 'in service' figures are recorded), 304 (71%) are 'in service' which is a smaller proportion than 2020 (79%). 'In service' figures are not available for platforms operated under contracts (see accompanying Excel Tables). 'In service' Fixed-wing platforms are all aircraft in active fleet management, which can include aircraft in storage.</p> <p><b>5.2 Unmanned Aircraft Systems</b>  There were 285 Unmanned Aircraft Systems as at 1 April 2021, a decrease of 2 since 2020. The majority of these Systems are Desert Hawk-III (229).</p> <p><b>5.3 Rotary-wing Aircraft</b>  Chinook are the most common type of Rotary-wing platform with 60 aircraft at 1 April 2021. The UK armed forces had 301 Rotary-wing platforms at 1 April 2021, 10 less than 2020. Since April 2020, the number of Apache platforms has been reduced to support the introduction of the AH-64E model which will see the numbers rise again from next year. Of the 264 Rotary-wing aircraft (for which 'in service' figures are recorded), 191 (72%) were in 'service' which is a smaller proportion than 2020 (77%). The definition of 'in service' differs slightly for aircraft owned by Navy Command.</p> <p><b>5.4 Air Formations</b>  At 1 April 2021, there were 97 squadrons in the Royal Air Force, This shows an increase of 13 on the previous year. This is in part due to the re-distribution of squadrons under new headings. Full details can be seen in Table 9. The Royal Navy Fleet Air Arm consists of 16 squadrons and four Headquarters, whilst the Army Air Corps incorporates eight Regiments (seven Regular; one Reserve).ormations of the UK armed forces. Equipment and formations statistics have been presented based on the UK armed forces areas: land, maritime and air.</p> <p><i>(Vollständiges Dokument abrufbar unter:</i>  <a href="https://www.gov.uk/government/statistics/uk-armed-forces-equipment-and-formations-2021/uk-armed-forces-equipment-and-formations-2021">https://www.gov.uk/government/statistics/uk-armed-forces-equipment-and-formations-2021/uk-armed-forces-equipment-and-formations-2021</a><i>)</i></p>
politico.com 08.09.2021	CAN: Will Canada ever get its new fighter jets?	The Canadian government has been on the hunt for a next-generation plane for its military. Six years on, there is no clear choice ahead. The competition pits Lockheed Martin's jet, believed to still be the favored choice of

		<p>the Canadian air force; against Boeing's F/A-18 Block III Super Hornet, the next generation of Canada's existing fleet; and the Saab Gripen, the underdog in the competition.</p> <p>(Vollständige Analyse abrufbar unter:  <a href="https://www.politico.com/news/2021/09/08/canada-fighter-jets-510804">https://www.politico.com/news/2021/09/08/canada-fighter-jets-510804</a>)</p>
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<p><b>Zielsetzung NACHBRENNER</b></p>	<p><b>Der NACHBRENNER hat zum Ziel eine am Thema Militärluftfahrt und Luftkriegsführung interessierte Leserschaft zeitnah über</b></p> <ul style="list-style-type: none"> <li>° Die Fähigkeiten und die Schlüsselfunktion von Air Power,</li> <li>° die zentrale Bedeutung einer integrierten Luftverteidigung,</li> <li>° die Weiterentwicklung von Luftstreitkräften mit einem besonderen Fokus Europa,</li> <li>° Entwicklungen und Entwicklungstendenzen in der 3. Dimension sowie</li> <li>° die möglichen verheerenden Folgen eines ungeschützten schweizerischen Luftraums für unsere Bevölkerung und Souveränität im Frieden, bei Terrorangriffen aus der Luft sowie im Konfliktfall</li> </ul> <p>zu orientieren.</p> <p>Dafür werden offene staatliche und Firmen-Quellen sowie die Tages- und Fachpresse ausgewertet und in primär englischer Sprache thematisch und chronologisch zusammengeführt.</p> <ul style="list-style-type: none"> <li>° Fact and Figures</li> <li>° Science and Technology</li> <li>° Entwicklungstrends</li> <li>° Beschaffungsprogramme</li> <li>° Luftkriegseinsätze</li> <li>° Militär- und geopolitische Entwicklungen</li> </ul>
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